Traffic Signal Guidelines

Provide conduit and junction boxes at <> for future traffic signal on the <> corner(s) of the intersection. Conduit and junction boxes plan must be drawn on a separate sheet and included as part of the complete set submitted to the Development Services Department (DSD) at Central log in on the 2nd floor, counter 9. Review and approval of all conduit plans must be obtained from the Street Transportation Department.

The Street Transportation Department will contact the appropriate power company for power source location.

Conduit plans will clearly show the following but not limited to:

Foundation Sheet:
Proposed junction boxes, proposed conduit runs, proposed and existing curb, gutter and sidewalk, all existing underground utilities, and all proposed underground utilities, right of way, existing traffic control easements, proposed traffic control easements, traffic control easements dimensions, face of curb dimensions and right of way dimensions per the current City of Phoenix AutoCAD standards.

Standard Detail Sheets:
Current detail sheets must be acquired from the City of Phoenix Street Transportation Department Design Section and included at bid time.

These plans must be designed in compliance with the City of Phoenix, AutoCAD design standards and civil construction standards. AutoCAD standards and construction standards are available through the Street Transportation Department. Once the plan has been approved by the City of Phoenix Street Transportation Department, the Developer will assure that the approved plan is part of the civil engineering plan set and submit it to the Civil Plans Reviewer.

Regardless of the amount of corners affected by the proposed development, the entire intersection must still be shown in the plan. All work related to the construction or reconstruction of the conduit runs and junction box installation is the responsibility of the Developer.

Relocate the existing aboveground and underground traffic signal equipment for the impacted traffic signal at <> on the <> corner(s) of the intersection. The traffic signal plan must be drawn on a separate sheet and included as part of the complete set submitted to the Development Services Department (DSD) at Central log in on the 2nd floor, counter 9. Review and approval of all traffic signal plans must be obtained from the Street Transportation Department.

The Street Transportation Department will contact the appropriate power company for power source location.

Signal modification plans will clearly show the following but not limited to:

Foundation Sheet:
Proposed foundations, proposed junction boxes, proposed conduit runs, proposed and Existing curb, gutter and sidewalk, all existing underground utilities, and all Proposed underground utilities, right of way, existing traffic control easements, proposed traffic control easements, traffic control easements dimensions, face of curb dimensions and right of way dimensions per the City of Phoenix AutoCAD standards.

Equipment Sheet:
Proposed signal equipment, existing signal equipment that will remain, existing and proposed curb, gutter and sidewalk, all proposed aboveground utilities, all existing aboveground utilities, right of way, existing traffic control easements, proposed traffic control easements, traffic control easements dimensions, face of curb dimensions and right of way dimensions per the current City of Phoenix AutoCAD standards.

Existing improvements that are going to be removed by this project will not need to be shown.

Standard Detail Sheets:
Current detail sheets must be acquired from the City of Phoenix Street Transportation Department Design Section and included at bid time.

These plans must be designed in compliance with the City of Phoenix AutoCAD design standards and civil construction standards. AutoCAD standards and construction standards are available through the Street Transportation Department. Once the plan has been approved by the City of Phoenix Street Transportation Department, the Developer will assure that the approved plan is part of the civil engineering plan set and submit it to the Civil Plans Reviewer.

Regardless of the amount of corners affected by the proposed development, the entire intersection must still be shown in the plan. All underground work related to the construction or reconstruction of the traffic signal is the responsibility of the Developer.
The City of Phoenix Signal Shop will provide and install all the aboveground equipment such as: poles, mast arms, signal heads, pedestrian heads, push buttons, street name illuminated signs, wire, and luminaries. The Developer will reimburse the City Of Phoenix for all costs. Except the Special M pole (SM), the Special Combination pole (SC), mast arm, pull string to each tenon, riser for luminaire, luminaire mast arm, and luminaire, which will be provided and installed by the contractor. (Color of poles must be specified by the Signal Shop.)
The Contractor is to submit a copy of manufacturer's specification drawings of any and all aboveground or underground equipment that is provided and installed by Contractor to the Construction Signal Supervisor (602) 262-6733.

Provide a new traffic signal installation at <> with the developer paying <> percent of the cost of construction. The traffic signal plan must be drawn on a separate sheet and included as part of the complete set submitted to the Development Services Department (DSD) at Central log in on the 2nd floor, counter 9. Review and approval of all traffic signal plans must be obtained from the Street Transportation Department.

The Street Transportation Department will contact the appropriate power company for power source location.

New traffic signal installation plans will clearly show the following but not limited to:

Foundation Sheet:
Proposed traffic signal foundations, proposed traffic signal junction boxes, proposed traffic signal conduit runs, existing and proposed curb, gutter and sidewalk, all existing underground utilities, all proposed underground utilities, right of way, proposed traffic control easements, traffic control easements dimensions, face of curb dimensions, and right of way dimensions per the City of Phoenix AutoCAD standards.

Equipment Sheet:
Proposed traffic signal equipment, existing and proposed curb, gutter and sidewalk, all proposed aboveground utilities, all existing aboveground utilities, right of way, proposed traffic control easements, traffic control easements dimensions, face of curb dimensions and right of way dimensions per the current City of Phoenix AutoCAD standards.

Existing improvements that are going to be removed by this project will not need to be shown.

Standard Detail Sheets:
Current detail sheets must be acquired from the City of Phoenix Street Transportation Department Design Section and included at bid time.

These plans must be designed in compliance with the City of Phoenix AutoCAD design standards and civil construction standards. AutoCAD standards and construction standards are available through the Street Transportation Department. Once the plan has been approved by the City of Phoenix Street Transportation Department, the Developer will assure that the approved plan is part of the civil engineering plan set and submit it to the Civil Plans Reviewer. All underground work related to the construction or reconstruction of the traffic signal is the responsibility of the Developer.
The City of Phoenix Signal Shop will provide all the aboveground equipment such as: poles, mast arms, signal heads, pedestrian heads, push buttons, street name illuminated signs, wire, and luminaries. The Developer will reimburse the City Of Phoenix for all costs. Except the Special M pole (SM), the Special Combination pole (SC), mast arm, pull string to each tenon, riser for luminarie, luminarie mast arm and luminarie, which will be provided and installed by the contractor. (Color of poles must be specified by the Signal Shop.)
The Contractor is to submit a copy of manufacturer's specification drawings of any and all aboveground or underground equipment that is provided and installed by Contractor to the Construction Signal Supervisor (602) 262-6733.

Items to be submitted at login time are as follows:

Two rolled 24”x36” and six folded and stapled 11”x17” original bond prints of the plans, which will include a foundation sheet, equipment sheet and the current City of Phoenix Standard Details.
One AutoCAD 2002 electronic copy of plans per submittal
One 24”x36” copy of paving plans (bond)
Any additional materials requested in this report and marked with an asterisk (*).

Items to be submitted for approval are as follows:

Two 24”x36” and six 11”x17” rolled original prints of the plans, which will include a foundation sheet, equipment sheet, and current City of Phoenix Standards Details.
One AutoCAD 2002 electronic copy of plans per submittal
Any additional materials requested in this report and marked with an asterisk (*).

The City of Phoenix Street Transportation Department is prepared to provide assistance to the design engineer with guidance on the preparation of all traffic signal plans.
The Street Transportation Design Section has an array of AutoCAD toolbars along with an automated help file of the entire Design Procedure Manual that have been created with the purpose of designing traffic signal plans. The utilization of these toolbars and the automated Design Procedure Manual may help make your design process shorter and it may also expedite your plans through the review and approval process. The CAD operator may contact the Design Section for assistance over the phone at time of computer setup. The Design Section is willing to host a training meeting with the CAD operator on the setup and use of these tools.

For questions please contact Zeke Rios @ 602-256-3409 zeke.rios@phoenix.gov
or go to the following websites:

Street Transportation Department website: http://phoenix.gov/STREETS/index.html

Development Services Department website: http://phoenix.gov/devserv/index.html