



# TRAFFIC SIGNING AND PAVEMENT MARKINGS GENERAL NOTES

## Signing Plan General Notes

1. The Town Traffic Engineer shall be notified at 480-358-3132 at least five business days prior to beginning any signing work associated with these plans.
2. The Town Traffic Engineer may require the Contractor to adjust signing locations, off-sets and types of signs at the time of installation.
3. All signing materials and installation shall conform to Town requirements, the Arizona Department of Transportation Standard Drawings and Specifications, the Manual on Uniform Traffic Control Devices (latest ADOT approved edition) and direction from the Town Traffic Engineer at time of installation.
4. The Contractor shall coordinate with the Town Traffic Engineering Division prior to ordering any materials to obtain the latest signing requirements and specifications.
5. The Contractor shall notify the Traffic Engineering Division at 480-358-3132 upon completion of all signing work to schedule a final inspection. The Contractor shall supply all required warranty documents to the Town Traffic Engineering Division prior to final job acceptance.
6. All existing signs temporarily removed by the contractor shall be salvaged for reinstallation by the Contractor. All signs permanently removed by the Contractor shall be salvaged and returned to the Town. The Contractor shall be solely responsible for maintaining each sign that is removed, ensuring that the signs integrity is maintained. In the event the sign is damaged, the Contractor shall be responsible for its replacement.
7. All signs and sign posts shall be installed per ADOT Standard Drawing S-3.
8. Final acceptance of all signing shall be provided by the Traffic Engineering Division.

## Requirements for Sign Design

1. All signs shall be faced on new .080 aluminium blanks.
2. Sheeting shall be ASTM Type XI for all permanent Regulatory, Warning, Guide, Information, and Object Marker Signs (including sign legends and borders).
3. All Warning signs (yellow series) shall be manufactured with ASTM Type XI 3M Fluorescent Yellow 4081 diamond grade reflective sheeting or approved equal.
4. All School signs shall be manufactured with ASTM Type XI 3M Fluorescent Yellow Green 4083 diamond grade reflective sheeting or approved equal.
5. Sheeting shall be manufactured by 3M Corporation or an approved equal with equal or greater warranty periods. All signs shall be manufactured using matching components approved by the sheeting manufacturer.

## Street Name Signs

1. All reflective sheeting materials shall be pressure sensitive ASTM Type XI 3M white 4090 diamond grade reflective sheeting or approved equal.

2. All transparent acrylic, pressure sensitive film shall be 3M Series 1177 Green Electro Cut Film (or 3M Series 1175 Blue Electro Cut film) or approved equal.
3. Signs shall be manufactured by applying white sheeting to the entire aluminum blank, then a green (or blue as required) translucent pressure sensitive film containing the cut out street name. This method results in a white legend on a green (or blue) background.
4. Lettering shall be Clearview 2-W font (upper/lower case).
5. 8" letter heights shall be used for all intersections along an arterial street with 45 mph or higher – these signs shall use a 16" high blade and shall not exceed 42" in width without prior approval from the Town Traffic Engineer.
6. 6" letter heights shall be used for all intersections along an arterial or collector street with 30 mph to 40 mph – these signs shall use a 12" high blade and shall not exceed 42" in width without prior approval from the Town Traffic Engineer.
7. 4" letter heights shall be used for all intersections along residential streets with 25 mph or less – these signs shall use an 8" high blade and shall not exceed 42" in width without prior approval from the Town Traffic Engineer.

#### **Street Name Signs – No Outlet/Dead End**

1. All reflective sheeting materials shall be pressure sensitive ASTM Type XI Series 4090 white and Series 4091 yellow diamond grade reflective sheeting or approved equal.
2. All acrylic, pressure sensitive film shall be 3M Series 1177 Green Electro Cut Film (or 3M Series 1175 Blue Electro Cut Film) and 3M 1178 Black EC film or approved equal.
3. These signs are constructed by applying white sheeting to the upper half of the sign blank and yellow sheeting to the lower half of the sign blank. On top of the white sheeting, a green (or blue) translucent pressure sensitive film containing the cut out street name is applied. On top of the yellow sheeting, the black "DEAD END" or "NO OUTLET" and black arrow are applied.
4. Lettering for the street name shall be Clearview 2-W font (upper/lower case) either 4", 6", or 8" lettering height depending upon the location.
5. Lettering for the "DEAD END" or "NO OUTLET" shall be Highway Gothic Series C font.
6. Sign heights shall be 16" or 24" and shall not exceed 42" in width without prior approval from the Town Traffic Engineer.

***NOTE: The Contractor may be required to submit signing proofs to the Town Traffic Engineer for approval prior to manufacturing.***

#### **Warranty Documents**

The manufacturer of the signing shall provide warranty documents covering materials and manufacturing defects up to 10 years. These documents shall be addressed to the Town of Queen Creek and shall provide the name of the sheeting manufacturer, type of sheeting (brand and type), type of overlay film (brand, type), name and contact information of the company responsible party manufacturing the signs that shall be responsible for any warranty claims.

## **Pavement Marking Plan General Notes**

1. The Contractor shall coordinate with the Town Traffic Engineering Division at 480-358-3132 for an inspection prior to the application of any paint.
2. After meeting with the Town Traffic Engineer, the Contractor shall spot mark the entire project and have the layout approved by the Town Traffic Engineer prior to the application of any paint. Once all pavement markings have been installed, the Contractor shall notify the Town Traffic Engineer for a final inspection. At completion of the final inspection, the Contractor shall supply all required warranty documents to the Town Traffic Engineer prior to final job acceptance.
3. The Town Traffic Engineer may require the Contractor to adjust pavement marking locations, off-sets and types of markings prior to installation.
4. Any pavement markings applied prior to inspection and approval by the Town Traffic Engineering Division shall be obliterated, sealed and restriped at the Contractor's expense.
5. All conflicting pavement markings shall be obliterated by means of water blasting to be completed by the Contractor.
6. A sealant approved by the Town shall be applied by the Contractor to all areas of pavement marking obliteration.
7. All pavement marking materials and installation shall conform to Town requirements, the Arizona Department of Transportation Standard Drawings and Specifications, the Manual on Uniform Traffic Control Devices (latest ADOT approved edition), and direction from the Town Traffic Engineer at time of installation.
8. Pavement markings shall require two (2) separate applications. The initial application shall be entirely in paint to include all lane lines, holding bars, cross walks, and stop bars. All legends shall be applied with an approved tape product at this time. Raised Pavement Markers (RPM's) shall be installed with the initial paint installation. The Contractor shall return 30-45 days following the initial paint installation and restripe the entire project in thermoplastic or as directed by the Town Traffic Engineer.
9. All permanent pavement marking materials on major arterials shall be extruded thermoplastic. All other roadways shall require spray thermoplastic for permanent pavement markings, unless otherwise specified by the Town Traffic Engineer.
10. All pavement marking symbols and legends shall be 3M Series 380 tape or approved equivalent. The Town Traffic Engineer has the right to modify the pavement marking material to 3M Series 270 tape or an approved equivalent.
11. All Raised Pavement Markers shall be installed with Crafcoc Pavement Reflector Adhesive, or an approved equivalent.
12. All median ends shall be painted per Maricopa County Department of Transportation Standard Details 4-15 and 4-16.

**Notes:**

1. The Town reserves the right to modify this list, to reject items included on the list, or to accept items not included on the list, at any time, without prior notice, if determined necessary in the best interests of the Town.
2. Products not covered by this list shall be submitted to the Town Traffic Engineering Division for review and approval prior to ordering.
3. Brand names listed may be registered trademarks of their respective manufacturers.