1. See TC-01 for sign description. All warning signs shall have a black legend and border on an orange background unless otherwise specified.

2. See TC-02 for sign and delineator spacing, taper, and buffer lengths. Sign spacing may be increased and delineator spacing may decrease from the distances shown in the table based on site-specific conditions (driveways, side streets, etc.).

3. This plan does not apply to signalized or multi-way stop locations.

4. "SHOULDER WORK" sign may be substituted with a "ROAD WORK AHEAD" or "UTILITY WORK AHEAD" sign as conditions apply.

5. Combine this drawing detail with others as needed to complete temporary traffic control for each work activity.

6. Sharrows may be considered for temporary installation on roadways with a posted speed limit of 35 MPH or less at the discretion of the ACHD Traffic Engineer. Sharrows shall be installed according to ACHD standard scribing to =11100, or as directed by the ACHD Traffic Engineer. Temporary sharrow markings shall be obliterated upon completion of the work.

7. If applicable, signs installed in advance of and including the bike lane closure notification shall be located outside of the bike lane or bicycle travel path. This may necessitate post-mounted sign installation. Other signs may be installed on portable stands subject to other TOS regulations.

8. "Bike may use full lane" sign shall be mounted above delineators so vehicle or bicycle sign vision is not obstructed.
NOTES

1. SEE TC-101 FOR SIGN DESCRIPTION. ALL WARNING SIGNS SHALL HAVE A BLACK LEGEND AND BORDER ON AN ORANGE BACKGROUND UNLESS OTHERWISE SPECIFIED.
2. SEE TC-02 FOR SIGN AND DELINEATOR SPACING, TAPER AND BUFFER LENGTHS. SIGN SPACING MAY BE INCREASED AND DELINEATOR SPACING MAY DECREASE FROM THE DISTANCES SHOWN IN THE TABLE BASED ON SITE SPECIFIC CONDITIONS (DRIVEWAYS, SIDE STREETS, ETC.).
3. THIS PLAN DOES NOT APPLY TO SIGNALIZED OR MULTI-WAY STOP LOCATIONS.
4. "SHOULDER WORK" SIGN MAY BE SUBSTITUTED WITH A "ROAD WORK AHEAD" OR "UTILITY WORK AHEAD" SIGN AS CONDITIONS APPLY.
5. COMBINE THE DRAWING DETAIL WITH OTHERS AS NEEDED TO COMPLETE TEMPORARY TRAFFIC CONTROL FOR EACH WORK ACTIVITY.
6. SHARROWS MAY BE CONSIDERED FOR TEMPORARY INSTALLATION ON ROADWAYS WITH A POSTED SPEED LIMIT OF 35 MPH OR LESS AT THE DISCRETION OF THE ACHD TRAFFIC ENGINEER. SHARROWS SHALL BE INSTALLED ACCORDING TO ACHD STANDARD DRAWING TC-113-605, OR AS DIRECTED BY THE ACHD TRAFFIC ENGINEER. TEMPORARY SHARRROW MARKINGS SHALL BE OBTAINED UPON COMPLETION OF THE WORK.
7. IF APPLICABLE, ALL SIGNS INSTALLED IN ADVANCE OF AND INCLUDING THE “BIKE LANE CLOSED AHEAD” SIGN SHALL BE LOCATED OUTSIDE OF THE BIKE LANE OR CYCLE TRAVEL PATH. THIS MAY REQUIRE POST MOUNTED SIGN INSTALLATION. OTHER SIGNS MAY BE INSTALLED ON PORTABLE STANDS SUBJECT TO OTHER TCC REGULATIONS.
8. "BIKE LANE CLOSED AHEAD" SIGN SHALL BE MOUNTED ABOVE DELINEATORS SO VEHICLE OR CYCLE SIGN VERSION IS NOT OBSTRUCTED.
9. THIS TCC IS APPLICABLE TO MOBILE, SHORT DURATION AND INTERMEDIATE-TERM STATIONARY WORK (THREE DAYS OR LESS). WORK THAT EXCEEDS THREE DAYS SHOULD CONSIDER POST MOUNTED SIGNS IN ADVANCE OF THE WORK AREA SUBJECT TO ACHD REVIEW.

POSTED SPEED LIMIT (MPH) | SHOULDER TAPER LENGTH (ft) | DELINEATOR SPACING (TAPER/TAN) | SIGN SPACING | BUFFER LENGTH | SHARROWS Y/N
--- | --- | --- | --- | --- | ---
/ | / | / | / | / | /
**NOTES**

1. If used, the portable "BIKE LANE CLOSED AHEAD" sign may be placed in the bike lane, assuming there is at least four (4) feet of bike lane remaining, as measured from the centerline of stripes to the edge of the sign base.

2. If used, the portable "BIKE LANE CLOSED AHEAD" sign may be placed in the adjacent sidewalk, assuming there is at least four (4) feet of sidewalk available for pedestrian travel.

3. If used, the portable "BIKE LANE CLOSED AHEAD" sign may be placed in the adjacent planting strip, provided the planting strip is in ACHD Right of Way and done in such a way as to not compromise pedestrian visibility.

4. Additional ballast support may be added to the sign base, subject to the aforementioned provisions related to available bicycle and pedestrian space.

5. Retroreflective strips shall be required if temporary signs are to be installed in the travel way and turned away from traffic overnight. The strips shall be placed on the sign post and back such that they are visible to oncoming traffic in the direction the sign is turned (installed on the back of the post of the sign is turned 180 degrees from traffic, e.g.). The color of the strip relative to the class of sign shall be as follows:

   Regulatory – Red or white
   Warning – Yellow
   Construction – Orange
NOTES

1. SEE TC-01 FOR SIGN DESCRIPTION. ALL WARNING SIGNS SHALL HAVE A BLACK LEGEND AND BORDER ON AN ORANGE BACKGROUND UNLESS OTHERWISE SPECIFIED.

2. SEE TC-02 FOR SIGN AND DELINEATOR SPACING, TAPER AND BUFFER LENGTHS. SIGN SPACING MAY BE INCREASED AND DELINEATOR SPACING MAY DECREASE FROM THE DISTANCES SHOWN IN THE TABLE BASED ON SITE SPECIFIC CONDITIONS (DRIVEWAYS, SIDE STREETS, ETC.).

3. THIS PLAN DOES NOT APPLY TO SIGNALIZED OR MULTI-WAY STOP LOCATIONS.


5. SHARRROWS MAY BE CONSIDERED FOR TEMPORARY INSTALLATION ON ROADWAYS WITH A POSTED SPEED LIMIT OF 35 MPH OR LESS AT THE DISCRETION OF THE ACHD TRAFFIC ENGINEER. SHARRROWS SHALL BE INSTALLED ACCORDING TO ACHD STANDARD DRAWING TS-1113.65, OR AS DIRECTED BY THE ACHD TRAFFIC ENGINEER. TEMPORARY SHARRROW MARKINGS SHALL BE OBLITERATED UPON COMPLETION OF THE WORK.

6. IF APPLICABLE, ALL SIGNS INSTALLED IN ADVANCE OF AND INCLUDING THE BIKE LANE CLOSURE NOTIFICATION SHALL BE LOCATED OUTSIDE OF THE BIKE LANE OR BIKE TRAVEL PATH. THIS MAY REQUIRE RELOCATION OF SIGNS TO BE MOUNTED ABOVE DELINERATORS SO BIKE OR BICYCLE SIGN VISION IS NOT OBSTRUCTED.

7. "BIKE MAY USE FULL LANE" SIGN SHALL BE MOUNTED ABOVE DELINERATORS SO VEHICLE OR BICYCLE SIGN VISION IS NOT OBSTRUCTED.
NOTES

1. SEE TC-01 FOR SIGN DESCRIPTION. ALL WARNING SIGNS SHALL HAVE A BLACK LEGEND AND BORDER ON AN ORANGE BACKGROUND UNLESS OTHERWISE SPECIFIED.

2. SEE TC-02 FOR SIGN AND DELINERATOR SPACING, TAPER AND BUFFER LENGTHS. SIGN SPACING MAY BE INCREASED AND DELINERATOR SPACING MAY DECREASE FROM THE DISTANCES SHOWN IN THE TABLE BASED ON SITE SPECIFIC CONDITIONS (DRIVEWAYS, SIDE STREETS, ETC.).

3. CONTRACTOR SHALL MAINTAIN ALL APPLICABLE INTERSECTION CONTROL SIGNS, INCLUDING BUT NOT LIMITED TO STOP SIGNS, LANE USE CONTROL SIGNS AND TRAFFIC SIGNALS.


5. RIGHT TURN RESTRICTIONS ON THE SIDE STREET MAY BE NECESSARY DEPENDING ON SITE SPECIFIC WORK CONDITIONS.

6. SHARROWS MAY BE CONSIDERED FOR TEMPORARY INSTALLATION ON ROADWAYS WITH A POSTED SPEED LIMIT OF 35 MPH OR LESS AT THE DISCRETION OF THE ACHD TRAFFIC ENGINEER. SHARROWS SHALL BE INSTALLED ACCORDING TO ACHD STANDARD DRAWING TS-1113.05, OR AS DIRECTED BY THE ACHD TRAFFIC ENGINEER. TEMPORARY SHARROW MARKINGS SHALL BE ELIMINATED Upon COMPLETION OF THE WORK.

7. IF APPLICABLE, SIGNS INSTALLED IN ADVANCE OF AND INCLUDING THE BIKE LANE CLOSURE NOTIFICATION SHALL BE LOCATED OUTSIDE OF THE BIKE LANE OR BICYCLE TRAVEL PATH. THIS MAY NECESSITATE POST MOUNTED SIGN INSTALLATION. OTHER SIGNS MAY BE INSTALLED ON PORTABLE STANDS SUBJECT TO OTHER TFC REGULATIONS.

8. "BIKE MAY USE FULL LANE" SIGN SHALL BE MOUNTED ABOVE DELINERATORS SO VISIBILITY IS NOT OBSTRUCTED FOR MOTORISTS AND BICYCLISTS.

<table>
<thead>
<tr>
<th>POSTED SPEED LIMIT (MPH)</th>
<th>MERGE TAPER LENGTH (L)</th>
<th>SHOULDER TAPER LENGTH (L)</th>
<th>DELINERATOR SPACING</th>
<th>SIGN SPACING</th>
<th>BUFFER LENGTH</th>
<th>SHARROWS Y/N</th>
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LEGEND

- DELINERATOR
- SIGN
- FLAGGER
- BARRICADE
- WORK AREA
- VARIABLE MESSAGE SIGN
- TRAFFIC DIRECTION

- SHARROW
- ARROW BOARD
NOTES

1. SEE TC-01 FOR SIGN DESCRIPTION. ALL WARNING SIGNS SHALL HAVE A BLACK LEGEND AND BORDERS ON AN ORANGE BACKGROUND UNLESS OTHERWISE SPECIFIED.

2. SEE TC-02 FOR SIGN AND DELINEATOR SPACING, TAPER AND BUFFER LENGTHS. SIGN SPACING MAY BE INCREASED AND DELINEATOR SPACING MAY DECREASE FROM THE DISTANCES SHOWN IN THE TABLE BASED ON SITE SPECIFIC CONDITIONS (DRIVeways, SIDE STREETS, ETC.).

3. THIS PLAN DOES NOT APPLY TO SIGNALIZED OR MULTI-WAY STOP LOCATIONS.


5. COMBINE THIS DRAWING DETAIL WITH OTHERS AS NEEDED TO COMPLETE TEMPORARY TRAFFIC CONTROL FOR EACH WORK ACTIVITY.

6. BIKE LANE SYMBOLS AND ARROWS MAY BE CONSIDERED FOR TEMPORARY INSTALLATION AT THE DISCRETION OF THE ACHD TRAFFIC ENGINEER. TEMPORARY BIKE LANE SYMBOLS AND ARROWS SHALL BE OBLITERATED UPON COMPLETION OF THE WORK.

7. SIGNS INSTALLED IN ADVANCE OF AND INCLUDING THE BIKE LANE SHIFT NOTIFICATION SHALL BE LOCATED OUTSIDE OF THE BICYCLE LANE OR BICYCLE TRAVEL PATH. THIS MAY NECESSITATE POST MOUNTED SIGN INSTALLATION. OTHER SIGNS MAY BE INSTALLED ON PORTABLE STANDS SUBJECT TO OTHER TIC REGULATIONS.

8. DELINEATORS WITH A MAXIMUM SPACING OF 26 FEET SHALL BE USED FOR BOTH SIDES OF THE BIKE SHIFT TAPER AND TANGENT. PORTABLE TRAFFIC BARRIER INSTALLATION AND CRASHWORTHY END TREATMENTS MAY BE REQUIRED ON HIGHER SPEED FACILITIES (40 MPH OR GREATER) AT THE DISCRETION OF THE ACHD TRAFFIC ENGINEER.

9. BIKE SHIFT TAPER SHALL BE BASED ON THE SHOULDER TAPER LENGTH "L/3 L" FOR THE GIVEN BIKE LANE OFFSET AND A 20 MPH BICYCLE SPEED (SEE TC-02 FOR FORMULA).

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<th>POSTED SPEED LIMIT (MPH)</th>
<th>MERGE TAPER LENGTH (L)</th>
<th>BIKE SHIFT TAPER LENGTH (L)</th>
<th>DELINEATOR SPACING (TAPER/FAR)</th>
<th>SIGN SPACING</th>
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NOTES

1. SEE TC-03 FOR SIGN DESCRIPTION. ALL WARNING SIGNS SHALL HAVE A BLACK LEGEND AND BORDER ON AN ORANGE BACKGROUND UNLESS OTHERWISE SPECIFIED.

2. SEE TC-02 FOR SIGN AND DELINERATOR SPACING, TAPER AND BUFFER LENGTHS. SIGN SPACING MAY BE INCREASED AND DELINERATOR SPACING MAY DECREASE FROM THE DISTANCES SHOWN IN THE TABLE BASED ON SITE SPECIFIC CONDITIONS (DRIVeways, SIDE STREETS, ETC.).

3. "ROAD WORK AHEAD" SIGN MAY BE SUBSTITUTED WITH A "SHOULDER WORK" OR "UTILITY WORK AHEAD" SIGN AS CONDITIONS APPLY.

4. SHARROWS MAY BE CONSIDERED FOR TEMPORARY INSTALLATION ON ROADWAYS WITH A POSTED SPEED LIMIT OF 35 MPH OR LESS AT THE DISCRETION OF THE ACHD TRAFFIC ENGINEER. SHARROWS SHALL BE INSTALLED ACCORDING TO ACHD STANDARD DRAWING PS-1113.05. OR AS DIRECTED BY THE ACHD TRAFFIC ENGINEER. TEMPORARY SHARROW MARKINGS SHALL BE OBSCURED UPON COMPLETION OF THE WORK.

5. "BIKES USE FULL LANE" SIGNS MAY BE INSTALLED ALONG THE BIKE DETOURED ROUTE OR STREETS THAT DO NOT HAVE DESIGNATED BIKE FACILITIES AT THE DISCRETION OF THE ACHD TRAFFIC ENGINEER.

6. IF APPLICABLE, SIGNS INSTALLED IN ADVANCE OF AND INCLUDING THE BIKE LANE CLOSURE NOTIFICATION OR WITHIN THE POSTED DETOUR ROUTE SHALL BE LOCATED OUTSIDE OF THE BICYCLE LANE OR BICYCLE TRAVEL PATH. THIS MAY BE NECESSARY IN MOUNTED SIGN INSTALLATION. OTHER SIGNS MAY BE INSTALLED ON PORTABLE STANDS SUBJECT TO OTHER TMC REGULATIONS.
NOTES

1. SEE TC-01 FOR SIGN DESCRIPTION. ALL WARNING SIGNS SHALL HAVE A BLACK LEGEND AND BORDER ON AN ORANGE BACKGROUND UNLESS OTHERWISE SPECIFIED.

2. SEE TC-02 FOR SIGN AND DELINERATOR SPACING, TAPE, AND BUFFER LENGTHS. SIGN SPACING MAY BE INCREASED AND DELINERATOR SPACING MAY DECREASE FROM THE DISTANCES SHOWN IN THE TABLE BASED ON SITE SPECIFIC CONDITIONS (DRYWALLS, SIDE STREETS, etc.).

3. INSTALL TEMPORARY TRAFFIC CONTROL DEVICES PER TC-155 IF THE BIKE DETOUR ROUTE DEVIATES FROM THE VEHICLE DETOUR ROUTE.

4. SHARROWS MAY BE CONSIDERED FOR TEMPORARY INSTALLATION ON ROADSWAYS WITH A POSTED SPEED LIMIT OF 35 MPH OR LESS AT THE DISCRETION OF THE ACHD TRAFFIC ENGINEER. SHARROWS SHALL BE INSTALLED ACCORDING TO ACHD STANDARD DRAWING 25-112.00, OR AS DIRECTED BY THE ACHD TRAFFIC ENGINEER. TEMPORARY SHARROW MARKINGS SHALL BE REMOVED UPON COMPLETION OF THE WORK.

5. ADDITIONAL TRAFFIC CONTROL SET UPS MAY BE REQUIRED FOR TURN LANE RESTRICTIONS DEPENDING ON SITE SPECIFIC CONDITIONS.

6. "TOCKS MAY USE FULL LANE" SIGNS MAY BE INSTALLED ALONG THE BIKE DETOUR ROUTE ON STREETS THAT DO NOT HAVE DESIGNATED BIKE FACILITIES AT THE DISCRETION OF THE ACHD TRAFFIC ENGINEER.

7. IF APPLICABLE, SIGNS INSTALLED IN ADVANCE OF AND INCLUDING THE BIKE LANE CLOSURE NOTIFICATION OR WITHIN THE DETOUR ROUTE SHALL BE LOCATED OUTSIDE OF THE BIKE LANE OR BIKE TRAVEL PATH. THIS MAY NECESSITATE POST MOUNTED SIGN INSTALLATION. OTHER SIGNS MAY BE INSTALLED ON PORTABLE STANDS SUBJECT TO OTHER TIC REGULATIONS.

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**LEGEND**

- DELINERATOR
- SIGN
- FLAGGER
- BARRIAGE
- VARIABLE MESSAGE SIGN
- TRAFFIC DIRECTION
- SHARROW
- ARROW BOARD
- WORK AREA