GENERAL NOTES:

1. Special Conditions may be required in accordance with these notes and the following sheets.

A. Railroad Crossings:
   a. If an active railroad crossing is located closer to the Work Area than the horizontal distance greater than 300 feet, extend the Buffer Space as shown on Sheet 2.
   b. If the closer of vehicles to an active railroad crossing cannot be avoided, provide a uniformed traffic control officer or flagger at the railroad crossing to prevent vehicles from stopping within the horizontal grade crossing.

B. Work Area:
   a. If the Work Area extends beyond the centerline of the existing paved shoulder, use the layout for Temporary Lane Shift on Sheet 3.
   b. If the work area encroaches on the centerline, use the layout on Sheet 3 for the existing paved shoulder.
   c. If automatic train warning devices are in place, reduce the posted speed when appropriate.

2. Temporary Raised Rumble Strips:
   a. Use when both of the following conditions are met concurrently:
      - Existing Posted Speed is 55 mph or greater;
      - Volume and complexity of the roadway has been considered.
   b. Work duration is greater than 60 minutes.
   c. Volume and complexity of the roadway has been considered.
   d. Use only option 1 or option 2 as shown on Sheet 2. Use only one option when appropriate.

3. Additional one-way control may be provided by the following means:
   A. Flag-carrying vehicle;
   B. Official vehicle;
   C. Pilot vehicles;
   D. Traffic signals.

4. When a side road intersects the highway within the TTC zone, place additional TTC devices in accordance with other applicable TCZ indexes.

5. The two channelizing devices directly in front of the work area may be omitted provided vehicles in the work area have high-intensity flashing, osculating, or strobe lights operating.

6. When buffer space cannot be attained due to geometric constraints, use additional TTC devices in accordance with other applicable TCZ indexes.

7. ROAD WORK AHEAD and the BE PREPARED TO STOP signs may be omitted if all of the following conditions are met:
   A. Work operations are 60 minutes or less.
   B. Speed limit is 45 mph or less.
   C. There are no sight obstructions to vehicles approaching the work area for a distance equal to the buffer space shown in Table 1.
   D. Vehicles in the work area have high-intensity, flashing, osculating, or strobe lights operating.
   E. Volume and complexity of the roadway has been considered.
   F. If a railroad crossing is present, vehicles will not queue across railroad tracks.
   G. AFADs are not in use.

8. See Index 102-600 for general TCZ requirements and additional information.

9. Automated Flagger Assistance Devices (AFADs) may be used in accordance with Specifications Section 102, 990 and the APL vendor drawings.

EQUIPMENT SPECIFICATIONS:

TABLE 1

<table>
<thead>
<tr>
<th>Posted Speed</th>
<th>Maximum Spacing of Cones or Tubular Markers</th>
<th>Maximum Spacing of Type I or Type II Barricades/Panels/Drums</th>
<th>Distance Between Signs</th>
<th>Buffer Space</th>
</tr>
</thead>
<tbody>
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</table>

CONSIDERATIONS:

WHERE ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCROACH THE AREA BETWEEN THE CENTERLINE AND A LINE 2' OUTSIDE THE EDGE OF TRAVEL WAY.

SYMBOLES:

- Work Area
- Channelizing Device (See Index 102-600)
- Flagger
- Lane Identification + Direction of Traffic

DESCRIPTION:

STANDARD PLANS

TWO-LANE, TWO-WAY,
WORK WITHIN THE TRAVEL WAY

INDEX

102-603

SHEET

1 of 3
SYMBOLS:
- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Flagger
- Lane Identification + Direction of Traffic

**REVISION**
11/01/17

**LAST REVISION**
12/01/17

**DESCRIPTION:**

**REVISION**

**INDEX**

**FY 2020-21**

**STANDARD PLANS**

**TWO-LANE, TWO-WAY, WORK WITHIN THE TRAVEL WAY**

**INDEX**

**SHEET**

**TEMPORARY RAISED RUMBLE STRIPS**

(When Required See GENERAL NOTE 2)

* May Be omitted if ROAD WORK AHEAD sign is installed upstream within the project limits.

**SYMBOLS:**
- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Flagger
- Lane Identification + Direction of Traffic

**REVISION**

**LAST REVISION**

**DESCRIPTION:**

**REVISION**

**INDEX**

**FY 2020-21**

**STANDARD PLANS**

**TWO-LANE, TWO-WAY, WORK WITHIN THE TRAVEL WAY**

**INDEX**

**SHEET**
TEMPORARY RAILROAD CROSSING BUFFER SPACE EXTENSION

TEMPORARY LANE SHIFT TO SHOULDER WHEN WORK AREA ENCROACHES ON THE CENTERLINE

SPECIAL CONDITIONS

Cross Reference:
1. See General Note 1, Sheet 1 for more information.