TRAFFIC RAILING/NOISE WALL NOTES

1. This railing has been structurally evaluated to be equivalent or greater in strength to a safety
shape/Noise Wall combination railing which has been crash tested to NCHRP Report 350 TL-4 criteria.

2. CONSTRUCTION REQUIREMENTS: Construct the Traffic Railing/Noise Wall and joints plumb; do not
construct the Traffic Railing/Noise Wall perpendicular to the roadway surface. Slip forming is not
permitted.

3. CONCRETE: Use Class II concrete for slightly aggressive environments. Use Class IV concrete for
moderately or extremely aggressive environments. Concrete will be in accordance with Specification
Section 346.

4. Construct ½" Open Joints plumb and perpendicular or radial to Gutter Line. Provide at 90'-0" maximum
intervals as shown. ½" Open Joint locations are to coincide with ½" Expansion Joints in footings.

5. Construct ½" V-Grooves plumb and provide at 30'-0" maximum intervals as shown. Space V-Grooves
equally between ½" Open Joints and/or Begin or End Traffic Railing/Noise Wall. V-Groove locations
are to coincide with V-Groove locations in footings.

6. 14'-0" Noise Wall End Taper is required when Railing/Noise Wall is adjacent to an 8'-0" Traffic
Railing/Noise Wall and may be used when an 8'-0" Traffic Railing/Noise Wall End Taper is provided
(see Index No. 5210 for details). See Roadway Plans for Traffic Railing/Noise Wall End Treatment.

7. Work this Standard Drawing with Index No. 5210 - Traffic Railing/Noise Wall (8'-0") and one or
more of the following:
a. Index No. 5213 - Traffic Railing/Noise Wall T-Shaped Spread Footing,
b. Index No. 5214 - Traffic Railing/Noise Wall L-Shaped Spread Footing or
c. Index No. 5215 - Traffic Railing/Noise Wall Trench Footing.
NOTES:
1. Field Cut Bars SR & SS1 in Noise Wall End Taper as required to maintain minimum cover.
2. See Index Nos. 5213, 5214 and 5215 for footing reinforcement.
3. See Index No. 5210 for reinforcement details and spacing. Bars SS2 are not required when 3/4" Open Joint is omitted.
4. Bar spacing shown is along the Gutter Line.
Concrete (Traffic Railing) CY/FT 0.104 0.302
Concrete (Noise Wall, excluding any thickening) CY/FT 0.302
Reinforcing Steel (Railing/Noise Wall) (Typical, excluding Footing Reinforcement) LB/FT 103.43
Additional Rein. @ Open Joint (Railing/Noise Wall) 1.0 761.91

CROSS REFERENCE:
For locations of Section A-A and Detail "A", see Sheet 1.

REINFORCING STEEL NOTES:
1. All bar dimensions in the bending diagrams are out to out.
2. All reinforcing steel at the open joints will have a 2" minimum cover.
3. Bars SR may be continuous or spliced at construction joints. Lap splices for Bars SR and SS will be a minimum of 2'-2".
4. The Contractor may use Welded Wire Reinforcement (WWR) when approved by the Engineer. WWR must consist of Deformed wire meeting the requirements of Specification Section 931.