

**NEW JERSEY DEPARTMENT OF TRANSPORTATION
MEMORANDUM**

TO: All Bridge Inspection Staff
Structural Evaluation

FROM: James Lane, Manager
Structural Evaluation

DATE: January 5, 2006

PHONE: 530-3572

SUBJECT: SRI Information for Ramps

The new 2005 Straight Line Diagrams include the SRI numbering for ramps. The numbering of these ramps will cause a need to update certain fields in the SI&A sheets to be consistent with the new SRI information and the changes will affect many of our bridges carrying or intersecting ramps.

Historically, ramps were associated with the highway where the ramp began at (consistent with the old Defense Highway Network). For example, a ramp starting at Route 31 and ending at I-78 was referenced to Route 31.

The new SRI numbering system differs in that the ramps are associated with the higher classification highway regardless of where they start and end. In the above example, the ramp from Route 31 to I-78 would be referenced to I-78. In addition, the following rules apply to assigning SRI's to ramps:

1. The hierarchy of highway classifications are Interstate, US Highway, NJ State Highway, 500 Series County Highway, 600 Series County Highway (also County Highways for counties not using the 600 series numbers), 700 Series County Highway and Local Roads.
2. When two highways of equivalent classification intersect, the ramps from highway to highway are all associated with the lower numbered highway. For example, where I-295 intersects I-195, all of the ramps connecting the two highways would have SRI numbers associated with I-195. However, a ramp starting or ending at I-295 at this interchange that does not start or end at I-195 (such as ramps to or from local roads) would be associated with I-295.
3. Most interchange Straight Line Diagrams clearly show the base highway SRI (at the bottom of the page) and the ramp SRI at each ramp. The ramps not associated with the base highway numbering are clearly marked by showing the base highway SRI and ramp SRI numbering at each of those affected ramps. A copy of the SRI ramp identification sheet for the I-95/NJ Route 29 interchange is attached. An I-95 ramp is indicated as '00000095M_X100020'. The Route 29 ramps are indicated as 'C100880' with the base highway SRI ('00000029_') shown at the bottom of the page. However, care must be taken where complicated interchanges exist. In some cases, the base highway SRI numbering is unclear. This is due to the insufficient room to show both the base highway SRI and ramp SRI for those ramps not associated with the base highway SRI (shown at the bottom of the Straight Line Diagram) without complicating the drawing. An example of this is the I-78, US 1&9 and Newark Airport interchange (copy attached). The ramps associated with US 1&9 do not show the base highway SRI and are easily confused with the I-78 ramps. For example, Ramp SRI 'A305770' at the bottom left hand corner of the drawing is a ramp associated with Route 1, but the base highway SRI ('00000001__') is not shown.

When revising SI&A data for ramps, the following fields need to be evaluated for revision:

1. The following SI&A fields may change:
 - A. Item 5—Inventory Route
 - B. Item 6—Features Intersected (for ramps under the bridge)
 - C. Item 7—Facility Carried (for ramps on the bridge)
 - D. Item 11—Milepoint
 - E. Item 26—Functional Classification
 - F. Item 104—Highway System Inventory Route
 - G. Item AB—Structure Name
 - H. SRI Number—Part of Pontis/Agency/Roadway Screen

2. The following SI&A fields may change due to revisions in the Functional Classification of ramps:
 - A. Item 68—Deck Geometry
 - B. Item 69—Underclearance—Vertical & Lateral

It is important that the SI&A data be revised correctly the first time as subsequent inspections may not identify errors made previously. Also, remember that these corrections will affect bridges where the ramp is carried by or under the bridge.

If you have any questions, please do not hesitate to see me.

JL: vay