

VIRGINIA DEPARTMENT OF TRANSPORTATION

# LOCATION AND DESIGN DIVISION

## INSTRUCTIONAL AND INFORMATIONAL MEMORANDUM

GENERAL SUBJECT: REUSE OF EXISTING GUARDRAIL	NUMBER: IIM-LD-119.5
SPECIFIC SUBJECT:	DATE: DECEMBER 1, 2005
	SUPERSEDES: IIM-LD-119.4
DIVISION ADMINISTRATOR APPROVAL: Mohammad Mirshahi, P.E. State L&D Engineer Approved: December 1, 2005	

Changes are shaded.

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### CURRENT REVISION

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- Updated for current Division Administrator Approval.
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### EFFECTIVE DATE

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- This memorandum will be effective upon receipt.
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### POLICY

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- Existing galvanized guardrail that is to be removed and is acceptable for reuse as determined at the project field inspection, may be reused in accordance with the Special Provision for Reuse Guardrail and the following guidelines.
  - The quantity of "Reuse Guardrail" will be based on a percent of the existing galvanized guardrail to be removed and acceptable for reuse as determined at field inspection.

## SPECIAL PROVISION

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- A Specification is available for applicable projects as follows:
    - <http://www.virginiadot.org/business/const/spec-default.asp>
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## GENERAL NOTES

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- The following note will be included in the General Notes when “Reuse Guardrail” is specified in the plans:

Use note I-13 when the District Administrator desires to retain the guardrail component materials that are not used by the contractor in the new construction:

I-13 Salvaged guardrail materials not used in the new construction shall become the property of the Department and the Contractor shall deliver and store at no additional cost to the Department, the unused materials to the Department’s maintenance yard at (location) during the Department’s normal working hours.

Use note I-14 when the District Administrator does not wish to retain the guardrail component parts that are not used by the Contractor in the new construction:

I-14 Salvaged guardrail materials not used in the new construction shall become the property of the Contractor and shall be disposed of at a licensed landfill, recycled or be retained by the contractor.

Note I-15 may be used with note I-13 or I-14:

I-15 Where Guardrail GR-2 or GR-8 is shown on the plans and in the summaries, either new guardrail or reused guardrail beam shall be used as provided elsewhere in these plans. The total quantities have been proportioned between new and reuse guardrail based on an estimate of the amount of existing beam that is reusable. The Contractor will be paid for the actual quantities of Guardrail, St’d GR-2 or St’d. GR-8, or Reuse Guardrail St’d. GR-2 or St’d. GR-8, as determined by the Engineer.

SUMMARY

- The following note is to be placed on the summary sheet and an asterisk shown beside the quantity totals for new guardrail:

\*The intermediate quantities shown are based upon new guardrail; however, reuse guardrail will be used whenever possible. Therefore, the grand total pay quantity has been reduced by the anticipated amount of reuse guardrail.

Sheet No.	GUARDRAIL St'd. GR-2	REUSE GUARDRAIL St'd. GR-2	GUARDRAIL St'd. GR-8	REUSE GUARDRAIL St'd. GR-8	REMOVE EXISTING GUARDRAIL
	Lin. Ft.	Lin. Ft.	Lin. Ft.	Lin. Ft.	Lin. Ft.
3	3,210		105		2,000
4	2,100		1,125		1,000
5	1,900		1,460		
6	2,850		250		4,000
7	1,140		100		1,000
TOTAL	7,200*	4,000	2,690*	350	8,000

EXAMPLE

9,890\* total intermediate quantity  
 - 4,350 (4,000 L.F. GR-2 + 350 L.F. GR-8) reuse guardrail  
 5,540 (3,200 L.F. GR-2 + 2,340 L.F. GR-8) new guardrail required

PAY ITEMS

- Payment will be made under:

<u>Pay Item</u>	<u>Pay Unit</u>	<u>Item Code</u>
*Remove Existing Guardrail	Lin. Ft.	24601
Guardrail, GR-2	Lin. Ft.	13320
Reuse Guardrail, GR-2	Lin. Ft.	13324
Guardrail, GR-8	Lin. Ft.	13351
Reuse Guardrail, GR-8	Lin. Ft.	13371
Reuse Guardrail Terminal, GR-6	Lin. Ft.	<u>24615</u>
Reuse Guardrail Terminal, GR-7	Each	<u>24616</u>

\*Removal of Guardrail Terminals GR-6 and GR-7 are to be paid for using this pay item in appropriate L.F. quantities.