

# Specific Notes & Footnotes Related to Special Items in the Roadway Design Guidelines

Item Related to Note	Note	RDG Section #	New RDG Chapter #
Project Length	If the box bridge does not serve as a riding surface, the box-bridge length will not be added in with the others, and a footnote to the Box Bridge Length will be added below the project length to say "Not included in the project length".	4-115.15	1-204.06
Road Closed during Construction	Noted on the Preliminary, R.O.W. and Construction title sheet as shown in Figure 1-38, Road Closed During Construction. "See Sht.		1-204.13
Construction Index of Sheets	"See Sht. 1A for Index"		1-206.01
Additional item numbers requested during Construction Field Review	"REQUESTED BY _____ DIVISION"		1-401.00
Items used in multiple locations	Define what the use and quantity is for each item within the total.	1-403.00	1-403.00
Lump Sum (LS) quantities	The description shall be filled in and a breakdown of the items included in the lump sum.	1-403.00	1-403.00
Erosion Control that might have to be replaced during the life cycle of the project	"SEE SUBSECTION 209.07 OF THE STANDARD SPECIFICATIONS FOR MAINTENANCE REPLACEMENT"	1-403.00	1-403.00
Approved Design Exception	Approved design exceptions shall be noted, with approval date, in the lower right corner of the title sheet as well as on the cover sheet for the R.O.W. and Construction checklist.		2-105.00
Approved Design Waivers	Approved design waivers shall be noted, with approval date, in the lower right corner of the title sheet as well as on the cover sheet for the R.O.W. and Construction checklist.		2-201.00
Box Culvert or Slab Bridge	Footnote these quantities to show the amount of concrete and steel bar reinforcement included for the paved aprons, when applicable	4-604.10	2-600.02
Curve inlets and/or outlets in concrete box or slab type culverts and bridges	"The inlet and outlet ends of the box culvert at Sta. ____ shall be curved parallel to the centerline of the roadway."	4-604.20	2-600.03
If the top slab is to be used as the riding surface	"Bridge deck finish to be burlap drag in accordance with method "A" as specified in Subsection 604.23 of the Tennessee Department of Transportation Standard Specifications."	4-604.20	2-600.03
203-50	ITEM NUMBER 203-50 SHALL INCLUDE GEOTEXTILE (TYPE IV), BORROW EXCAVATION (GRADED SOLID ROCK) OR	4-120.03	2-601.02

	MACHINED RIP-RAP (CLASS A-1, CLASS B, OR CLASS C), MINERAL AGGREGATE (SIZE 57), AND TEMPORARY DRAINAGE PIPE (IF APPLICABLE). THE MINERAL AGGREGATE INCLUDES AN ADDITIONAL TEN (10) PERCENT FOR MAINTENANCE.		
Haul Road Compensation	If the haul road is constructed in a dry or unsaturated area, Borrow Excavation (graded solid rock) shall be used. If the haul road is constructed in water or in an area within the flood plain, Machined Rip-Rap (Class A-1, Class B, or, Class C) shall be used in place of Borrow Excavation. An additional ten (10) percent for Mineral Aggregate is included in Item 203-50. The additional ten (10) percent is for the maintenance of the haul road due to inclement weather events outside the contractor's control.	4-120.03	2-601.02
Earthwork Calculations	A note shall be added to the plans below the earthwork tabulation block detailing any special areas where topsoil will not be required (such as rock fills not to be seeded). Include topsoil and seeding quantities for sodded or paved ditch areas on projects requiring topsoil and seeded slopes.		2-706.00
For ALL projects with retaining walls	ALL COST OF BUILDING AND INSTALLING THE RETAINING WALL, INCLUDING FOUNDATION PREPARATION, BACKFILLING, AND EXCAVATION, SHALL BE INCLUDED IN THE SQUARE FOOTAGE COST OF THE RETAINING WALL. QUANTITIES FOR FOUNDATION PREPARATION, BACKFILL, AND EXCAVATION ARE REFLECTED IN THE END AREA CALCULATIONS ON CROSS SECTIONS AND IN GRADING QUANTITY ROADWAY ITEM 203-01, ROAD AND DRAINAGE EXCAVATION (C.Y.). THE DESIGNER HAS NOTED THE PORTION OF THIS QUANTITY FOR THESE ITEMS ON THE PROFILE SHEET XX AND ON THE GRADING QUANTITY TABULATION SHEET. THE PORTION OF THIS QUANTITY HAS BEEN REMOVED FROM ROADWAY ITEM 203-01, ROAD AND DRAINAGE EXCAVATION (C.Y.). FOR FURTHER INFORMATION ON RETAINING WALLS AND QUANTITIES, SEE SHEET(S) (R, R1, R1A, R1B, R2, R2A, R2B, etc.).		2-900.10
If a concrete parapet is on one retaining wall	CONCRETE PARAPET IS LOCATED ON RETAINING WALL R# AND IS NOT INCLUDED IN THE COST OF THE RETAINING WALL.		2-900.10
If Concrete Parapet is on multiple retaining walls	CONCRETE PARAPET IS NOT INCLUDED IN THE COST OF THE RETAINING WALL. BREAKDOWN OF CONCRETE PARAPET FOR EACH WALL IS XX L.F. FOR R#, XX L.F. FOR R#, (ETC.)		2-900.10
If Concrete Barrier is on one retaining wall	CONCRETE BARRIER IS LOCATED ON RETAINING WALL R# AND IS NOT INCLUDED IN THE COST OF THE RETAINING WALL.		2-900.10
If Concrete Barrier is on multiple retaining walls	CONCRETE BARRIER IS NOT INCLUDED IN THE COST OF THE RETAINING WALL. BREAKDOWN OF CONCRETE BARRIER FOR EACH WALL IS XX L.F. FOR R#, XX L.F. FOR R#, XX L.F. FOR R#, (etc.)		2-900.10
Bridge Repair Quantities	"FOR BRIDGE REPAIR DETAILS SEE SHEET ___"	4-126.00	
Project Commitment	For projects with no commitments, the following note shall be placed at the bottom of the Index of Sheets, "No project	4-136.00	

	commitments sheet included in this set of plans.”		
705-08.54	<del>“This item shall be a portable energy absorbing terminal meeting the requirements of NCHRP 350 for Test Level 3. Examples would be a Quad Guard, a React 350 or a TRACC. The pay item will include furnishing and installing all components as shown on the manufacturer’s drawing.”</del>	4-712.00	No Longer in use – Use 705-20.25 for new item
705-20.25	“This item shall be a portable energy absorbing terminal meeting the requirements of AASHTO MASH for Test Level 3. The pay item will include furnishing and installing all components as shown on the manufacturer’s drawing.”	4-712.00	
712-06	96”X48” (Blue Background with White Copy) 0.100” sheet aluminum	4-712.05	
712-06.16	“Item to be used only when a reduced speed limit is established within the project construction work zone limits. Item includes sign face, supports, and two type “B” flashers per the standard specifications. The contractor shall be responsible for turning on the type “B” flashers when workers are in the construction work zone and turning them off when workers are no longer in the construction work zone.”	4-712.15	
Note Allowing Traffic to Temporarily Drive on Milled Surface to be Placed in Interstate Resurfacing Plans	See Chapter 9 Section 9-215.01 for a note to be added to interstate resurfacing plans for all projects which include cold planning items. The note should be added as a Special Note. Designers should also include the motorcycle warning sign (TN-64) on interstate resurfacing projects. Two (2) signs should be placed on the interstate in advance of the cold planned section. A motorcycle warning sign should also be placed on entrance ramps located within the limits of a cold planned section.	4-713.25	
Natural Stream design	NATURAL STREAM DESIGN IS NOT SHOWN, SEE SHEET NS SERIES PLANS FOR DETAILS.	4-139.00	
If PDF is larger than email limit	ATTENTION PRINT SHOP: 1 set of 11” x 17” prints of the revised sheets only is requested for the HQ Construction Office. Please contact their office when the prints are ready to be picked up.	4-140.02	
Barrier system in retaining wall	“Cost of concrete barrier incorporated into the retaining wall shall be included in the cost of the retaining wall. The barrier shall be designed as TL-4 rail as defined by section 13 of the AASHTO Bridge Design Specifications.”	2-175.02	
Landscaping on Proposed Sheets	NOTE: LANDSCAPING PLAN NOT SHOWN, SEE L SERIES SHEETS”	2-136.00	
716-12.01 or 716-12.02	“Contractor shall use the ribbon method for application.”	4-716.15	
716-12.02	“Contractor shall use the extruded or ribbon method for application.”	4-716.15	
Striping Ramps on Resurfacing Plans	“Ramps shall be marked up to where they connect to the intersecting roadway.”	4-716.16	
Specialty Pavement markings	“Contractor may elect to substitute Preformed Plastic for Thermoplastic. Preformed Plastic shall be paid for at the same unit price as bid for Thermoplastic.”	4-716.25	
Removal of Structure	The removal items shall be footnoted under the appropriate estimated quantities block as to whether the salvage shall become the property of the contractor, city, county or state.	4-202.00	
202-01 and 202-01.50	Add a footnote to the estimated quantities block detailing exactly what major items are included in the item (this includes, but is not	4-202.01	

	limited to catch basins, manholes, junction boxes, etc.)		
202-04.50 through 202-04.99	Shall be footnoted as to whether the salvage shall become the property of the contractor, city, county or state	4-202.00	
202-06.01, through 202-06.99	"Bid price includes all salvage value of material. See tabulated quantities sheet No. 2___ for removal of buildings and obstructions description block."	4-202.10	
All Grading Quantities	"SEE GRADING SPECIAL NOTES ON SHEET 2_."	4-203.02	
203-30.01	"No change in compensation will be made for normal variations in estimated quantities."	4-203.25	
Proposed Pipe Culvert	The bedding material shall be included in the cost of the proposed pipe culvert.	4-204.00	
Excavation for Concrete Box and Slab Type Culverts and Bridges	"Culvert excavation for concrete box or slab type culverts or bridges will not be measured and paid for directly, but the cost will be included in the cost of other items."	4-204.05	
All applicable EPSC pay items	"See Subsection 209.07 of the Standard Specifications for Maintenance Replacement"  "All quantities are to be used as directed by the Engineer"	4-209.00	
302-02	NOTE: To be used only when specifically recommended.  Subsection 302.08 of the Standard Specifications requires slurry application unless otherwise shown on plans. If dry application is specified by the Pavement Design Section, it shall be necessary to footnote pay items.	4-302.00	
Performance Grade Mix	"The contractor has the option of using the Performance Grade Mix or regular asphalt on the paving of driveways and business entrances."	4-400.03	
402-01 402-02 403-01 403-05.01 404-01.01 404-01.02 405-01.01 405-01.02 406-01.01 406-01.02	Designers shall assume the mid-point of the rate ranges when calculating quantities. If a different value is used, footnote this item on the estimated roadway quantities sheet in the plans to indicate the rate used. Designers shall show the rate range on the pavement schedule in the plans.	4-402.00 4-402.00 4-403.00 4-403.05 4-404.00 4-404.00 4-405.00 4-405.00 4-406.00 4-406.00	
402-02	"Item to be used as directed by the engineer."	4-402.00	
403-01	Footnote to indicate which rate and aggregate size should be used.	4-405.00	
405-01.01 405-01.02	"Includes quantity to be used along edge of paved shoulder while making lane shifts during the course of construction in order to reduce rutting along edge of shoulder."	4-405.01	
414-03.01  414-03.02	Application rate based on 12 percent of the dry weight of the aggregate.  Application rate of 32 pounds (approximate depth 0.375") per square yard shall be used if plans require a leveling mixture (14 pounds per square yard) and a surface mixture (18 pounds per square yard) to be placed, or 22 pounds (approximate depth 0.275") per square yard if only a surface mixture is to be placed,	4-414.05	

403-01.01	unless otherwise specified.  The tack coat shall consist of 1 part emulsion and 3 parts water; therefore "0.25" is used as the multiplication factor in the above equation.		
610-07.03 and 709-01.01	"Standard Drawing STD-1-7 (or STD-1-11) is to be used for burial of the outlet pipe and for end treatment details."	4-611.05	
621-01.01 through 621-01.10	"Quantity is based on minimum calculated length. Actual length required will be determined based on field conditions encountered. The bidder is responsible for verifying estimated lengths prior to submitting their bid. Additional length, if any, required by actual field measurements will be installed at no additional cost. All costs shall be included in the bid price for these items."	4-621.00	
Rip Rap: 709-05.05 709-05.06 709-05.07 709-05.08 709-05.09	Footnote each structure separately identifying all quantities and the structures with which they are used.	4-709.05	
Seeding and Temporary Seeding (With Mulch)	"The cost of fertilizer and lime used in initial seed bed preparation is to be included in the cost of seeding. See Section 801 of TDOT Standard Specifications for Road and Bridge Construction."	4-801.00 4-801.05 4-801.07	
Crown Vetch Mixture (With Mulch)	"Item No. 801-01.02, Crown Vetch Mixture (with mulch), and description shall be used on slopes 3H:1V or steeper and other areas, as indicated in the plans, that are inaccessible for mowing."	4-801.05	
801-03	"Includes ___ thousand gallons for erosion prevention and sediment control."	4-801.10	
For large projects when item nos. 801-01 and 801-01.02 are used	"For larger projects with significant amount of disturbed area, include item number 801-07 and/or item number 801-07.07 when using item number 801-01 and/or 801-01.02."  "For larger projects with significant amount of disturbed area, include item number 801-08 and/or when using item number 801-01 and/or 801-01.02."	4-801.15	
Supplemental fertilizer	"The cost of any necessary lime to be used in conjunction with supplemental fertilizer is to be included in the cost of the supplemental fertilizer. See Section 801 of TDOT Standard Specifications for Road and Bridge Construction."	4-801.20	
806-02.03	"Item includes litter and trash removal. This work will not be measured and paid for directly but will be included in the cost of Item No. 806-02.03, Project Mowing, Cycl."	4-806.00	
First Property Map or Present Layout Sheet, if applicable	It is intended that all buildings and/or portions of buildings that are within the proposed right-of-way and/or easement lines for the project, be removed in the process of right-of-way acquisition. If any such buildings or improvements are not removed in the course of right-of-way acquisition, the Design Manager, Roadway Design Division (and Design Manager, Regional Design Office, if plans are being developed in the Regional Office) is/are to be notified in sufficient time to permit having such removals designated as a part of the construction contract.	2-300.00	9-300.00
First Property Map or Present Layout Sheet, if applicable	All ramps must conform to the Department's "Policy on Financing Construction on Public Road Intersections and Driveways on Highway Resurfacing, Reconstruction and Construction Projects on New Locations", The Manual on Rules and Regulations for	2-300.00	9-300.00

	Constructing Driveways on State Highway Right-of-Way, Standard Drawing RP-R-1, and other accepted design and safety standards.		
First Property Map or Present Layout Sheet, if applicable	Existing paved driveway per tract remainder will be replaced in-kind to a touchdown point.	2-300.05	9-300.00
First Property Map or Present Layout Sheet, if applicable	Where the existing driveway is unpaved and the proposed driveway exceeds 7 percent in grade, each driveway will be paved to a touchdown point or until the grade is less than 7 percent.	2-300.05	9-300.00
First Property Map or Present Layout Sheet, if applicable	Where the existing driveway is unpaved and the proposed driveway is less than 7 percent in grade, each driveway will be paved a shoulder width from the edge of pavement and the remainder of that driveway replaced in-kind to a touchdown point.	2-300.05	9-300.00
First Property Map or Present Layout Sheet, if applicable	Any necessary paving of driveways will be done during paving operations on the main roadway	2-300.05	9-300.00
First Property Map or Present Layout Sheet, if applicable	Tract remainders not having an existing driveway will be provided a 50-foot opening in the access control fence, and a driveway will be constructed unless access is provided from an intersecting road or based on physical conditions and/or conflicts with other design considerations which prevent an access opening. Paving of these new driveways will be in accordance with the 7 percent criteria previously mentioned for existing driveways.	2-300.05	9-300.00
First Property Map or Present Layout Sheet, if applicable	New driveways provided in the plans will be paved based on the 7 percent criteria. Those 7 percent or steeper in grade will be paved and those flatter than 7 percent will be covered with base stone.	2-300.05	9-300.00
First Property Map or Present Layout Sheet, if applicable	Additional driveways and field entrances other than those provided in the plans shall require a permit on a state route. 1. On projects without curb and gutter, it will be the responsibility of the owner to secure a permit and to construct additional desired driveways. 2. On projects with curb and gutter, it will be the responsibility of the owner to secure a permit. After the permit has been granted, the Department will construct the driveway or field entrance through the curb and sidewalk, provided the curb and sidewalk have not been constructed. It will be the responsibility of the property owner to construct the driveway from back of sidewalk to the touchdown point	2-300.05	9-300.00
First Property Map or Present Layout Sheet, if applicable	On non-state routes additional driveways and field entrances other than those provided in the plans shall require a permit only if the local agency specifies the need for that permit.	2-300.05	9-300.00