

ROAD AND BRIDGE STANDARDS

VOLUME I



VIRGINIA DEPARTMENT OF TRANSPORTATION

SPECIFICATION REFERENCES NOTED
THROUGHOUT ARE BASED ON VIRGINIA
DEPARTMENT OF TRANSPORTATION
ROAD AND BRIDGE SPECIFICATIONS
DATED 2007.

Copyright 2008 Commonwealth of Virginia

RECOMMENDED
FOR APPROVAL

Michael H. ...
DIVISION ADMINISTRATOR

APPROVED

William T. Kelsey
CHIEF ENGINEER

**SECTION 100
DRAINAGE**

<u>ITEMS</u>	<u>SERIES</u>
ENDWALLS.....	101
END SECTIONS.....	102
PRECAST UNITS.....	103
DROP INLETS.....	104
INLET COVERS.....	105
MANHOLE COVERS, PRECAST MANHOLES, JUNCTION BOXES.....	106
PIPE, PIPE COVER TABLES, PIPE INSTALLATION.....	107
UNDERDRAIN, EDGEDRAIN.....	108
PAVED DITCHES.....	109
SPRING BOX.....	110
ENERGY DISSIPATORS.....	111
PIPE SPILLOUT.....	112
TEMP DIVERSION CHANNEL, EROSION CONTROL.....	113
STORMWATER MANAGEMENT.....	114

**SECTION 200
CURBS & ENTRANCES**

<u>ITEMS</u>	<u>SERIES</u>
CURB AND COMBINATION CURB AND GUTTER.....	201
MEDIAN CURB AND RAISED MEDIAN STRIP.....	202
ENTRANCES, CURB RAMPS, DETECTABLE WARNING SURFACE.....	203

**SECTION 300
PAVEMENT**

<u>ITEMS</u>	<u>SERIES</u>
REINFORCED CONCRETE PAVEMENT.....	301
BRIDGE APPROACH EXPANSION JOINT.....	302
METHOD OF WIDENING BRIDGE APPROACH PAVEMENT.....	303
RUMBLE STRIPS.....	304

**SECTION 400
RETAINING WALLS**

<u>ITEMS</u>	<u>SERIES</u>
RETAINING WALLS.....	401

**SECTION 500
GUARDRAIL & FENCE**

<u>ITEMS</u>	<u>SERIES</u>
GUARDRAIL.....	501
MEDIAN BARRIER.....	502
FENCING.....	503
RIGHT OF WAY MONUMENTS.....	504

**SECTION 600
MISC. & TABLES**

<u>ITEMS</u>	<u>SERIES</u>
CONCRETE STEPS, HAND RAIL, BOAT LAUNCHING RAMPS, AND SETTLEMENT PLATE.....	601
SIGN ISLANDS, PRIVATE ENTRANCES, MAINTENANCE CROSSOVERS.....	602
MAILBOX AND TURNOUT DETAIL.....	603
PRECAST CATTLE GUARD.....	604
STORAGE FACILITY FOR NUCLEAR GAUGE.....	605
UNDERCUTTING ROCK.....	606
SETTING AND MARKING SLOPE STAKES.....	607
SIGHT DISTANCES ON HORIZONTAL CURVES.....	608

**SECTION 700
GEOMETRIC DESIGN**

<u>ITEMS</u>	<u>SERIES</u>
METHODS OF GRADING SIDESLOPES.....	701
SHOULDER DESIGNS.....	702

**SECTION 800
TRANSITION CURVES**

<u>ITEMS</u>	<u>SERIES</u>
TRANSITION CURVES TC-5.01.....	802

APPENDIX

<u>ITEMS</u>	<u>SERIES</u>
CONVERSION TABLES, STANDARD REINFORCING BARS.....	A
PARABOLIC VERTICAL CURVE COMPUTATIONS & METRIC CONVERSION FACTORS	

**TABLE OF CONTENTS
VOLUME I**