

Table of Contents

Chapter 1 DIVISION 100 - GENERAL CONDITIONS	1-1
SECTION 101 - CONTRACT INTERPRETATION	1-1
SECTION 102 - BIDDING.....	1-22
SECTION 103 - AWARD AND CONTRACTING	1-27
SECTION 104 - GENERAL RIGHTS AND RESPONSIBILITIES	1-32
SECTION 105 - GENERAL SCOPE OF WORK	1-48
SECTION 106 - QUALITY.....	1-72
SECTION 107 - TIME.....	1-89
SECTION 108 - PAYMENT	1-95
SECTION 109 - CHANGES.....	1-106
SECTION 110 - INDEMNIFICATION, BONDING, AND INSURANCE.....	1-118
SECTION 111 - RESOLUTION OF DISPUTES.....	1-122
SECTION 112 - DEFAULT AND TERMINATION	1-128
APPENDIX A TO DIVISION 100.....	A-1
I. GENERAL	A-16
II. NONDISCRIMINATION.....	A-17
III. NONSEGREGATED FACILITIES	A-22
IV. Davis-Bacon and Related Act Provisions	A-22
V. CONTRACT WORK HOURS AND SAFETY STANDARDS ACT.....	A-29
VI. SUBLETTING OR ASSIGNING THE CONTRACT	A-30
VII. SAFETY: ACCIDENT PREVENTION	A-31
VIII. FALSE STATEMENTS CONCERNING HIGHWAY PROJECTS.....	A-31
IX. IMPLEMENTATION OF CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT.....	A-32
X. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION.....	A-33
XI. CERTIFICATION REGARDING USE OF CONTRACT FUNDS FOR LOBBYING	A-37
Chapter 2 DIVISION 200 - EARTHWORK	2-1
SECTION 201 - CLEARING RIGHT-OF-WAY.....	2-1
SECTION 202 - REMOVING STRUCTURES AND OBSTRUCTIONS.....	2-5
SECTION 203 - EXCAVATION AND EMBANKMENT	2-11
SECTION 204 - SHOULDER REHABILITATION.....	2-30
SECTION 205 - SHOULDER RECONSTRUCTION	2-32
SECTION 206 - STRUCTURAL EXCAVATION	2-34
SECTION 207 - BRUSH MATTING.....	2-39
SECTION 208 - SAND DRAINS.....	2-39

SECTION 209 - WICK DRAINS	2-39
SECTION 211 - DITCH AND INSLOPE EXCAVATION	2-39
Chapter 3 DIVISION 300 - BASES	3-1
SECTION 304 - AGGREGATE BASE AND SUBBASE COURSE.....	3-1
SECTION 306 - RECLAIMED MATERIAL FOR STABILIZED BASE.....	3-5
SECTION 307 FULL DEPTH RECYCLING	3-5
SECTION 308 FULL DEPTH RECYCLING WITH CEMENT	3-13
SECTION 309 - FOAMED ASPHALT.....	3-20
SECTION 310 - PLANT MIXED RECYCLED ASPHALT PAVEMENT	3-29
SECTION 311 - COLD IN-PLACE RECYCLED ASPHALT PAVEMENT.....	3-35
Chapter 4 DIVISION 400 - PAVEMENTS	4-1
SECTION 401 - HOT MIX ASPHALT PAVEMENT	4-1
SECTION 402 - PAVEMENT SMOOTHNESS	4-25
SECTION 403 - HOT MIX ASPHALT PAVEMENT	4-27
SECTION 404 - 408 VACANT	4-28
SECTION 409 - BITUMINOUS TACK COAT.....	4-28
SECTION 410 - BITUMINOUS SURFACE TREATMENT	4-30
SECTION 411 - UNTREATED AGGREGATE SURFACE COURSE.....	4-30
SECTIONS 412 - 418 VACANT.....	4-32
SECTION 419 - SAWING AND SEALING JOINTS IN BITUMINOUS PAVEMENT.....	4-32
SECTION 420 - PORTLAND CEMENT CONCRETE PAVEMENT	4-32
SECTIONS 421 THROUGH 423 - VACANT	4-32
SECTION 424 - CRACK SEAL.....	4-32
SECTION 425 - RECYCLED BITUMINOUS PAVEMENT.....	4-32
SECTIONS 426 THROUGH 459 - VACANT	4-32
SECTION 460 - HOT MIX ASPHALT PAVEMENT FOR SPECIAL AREAS.....	4-32
SECTION 461 – LIGHT CAPITAL PAVEMENT	4-32
SECTION 462 - MICROSURFACING.....	4-32
Chapter 5 DIVISION 500 – STRUCTURES.....	5-1
SECTION 501 - FOUNDATION PILES.....	5-1
SECTION 502 - STRUCTURAL CONCRETE	5-17
SECTION 503 - REINFORCING STEEL.....	5-56
SECTION 504 STRUCTURAL STEEL.....	5-65
SECTION 505 - STUD WELDED SHEAR CONNECTORS, ANCHORS, & FASTENERS	5-86
SECTION 506- SHOP APPLIED PROTECTIVE COATING - STEEL	5-88
SECTION 507 - RAILINGS.....	5-99
SECTION 508 -WATERPROOFING MEMBRANE	5-101
SECTION 509 -STRUCTURAL PLATE PIPES, PIPE ARCHES, ARCHES, AND METAL BOX CULVERTS	5-105

SECTION 510 - SPECIAL DETOURS.....	5-109
SECTION 511- COFFERDAMS.....	5-114
SECTION 512 - FRENCH DRAINS.....	5-117
SECTION 513 - SLOPE PROTECTION.....	5-118
SECTION 514 - Reserved.....	5-119
SECTION 515 - PROTECTIVE COATING FOR CONCRETE SURFACES.....	5-119
SECTION 516 - STYRENE-BUTADIENNE LATEX MODIFIED PORTLAND CEMENT MORTAR AND CONCRETE.....	5-120
SECTION 517 - SHOTCRETE.....	5-120
SECTION 518 - STRUCTURAL CONCRETE REPAIR.....	5-120
SECTION 519 - EXPANSION DEVICES – ASPHALTIC PLUG JOINT.....	5-126
SECTION 520 - EXPANSION DEVICES - NON-MODULAR.....	5-129
SECTION 521 - FINGER JOINT AND FABRIC TROUGH/FABRIC CURTAIN.....	5-131
SECTION 522 - EXPANSION DEVICES - MODULAR.....	5-134
SECTION 523 - BEARINGS.....	5-137
SECTION 524 - TEMPORARY STRUCTURAL SUPPORTS.....	5-148
SECTION 525 - GRANITE MASONRY.....	5-150
SECTION 526 - CONCRETE BARRIER.....	5-152
SECTION 527 - ENERGY ABSORBING UNIT.....	5-156
SECTION 528 - STRUCTURAL TIMBER.....	5-157
SECTION 529 - NAVIGATIONAL AIDS.....	5-157
SECTIONS 531 to 533 – VACANT.....	5-157
SECTION 534 - PRECAST STRUCTURAL CONCRETE.....	5-157
SECTION 535 - PRECAST, PRESTRESSED CONCRETE SUPERSTRUCTURE.....	5-166
Chapter 6 DIVISION 600 - MISCELLANEOUS CONSTRUCTION.....	6-1
SECTION 601 - GABIONS AND MATTRESSES.....	6-1
SECTION 602 - PIPE LINING.....	6-5
SECTION 603 - PIPE CULVERTS AND STORM DRAINS.....	6-5
SECTION 604 - MANHOLES, INLETS, AND CATCH BASINS.....	6-13
SECTION 605 - UNDERDRAINS.....	6-18
SECTION 606 – GUARDRAIL.....	6-21
SECTION 607 - FENCES.....	6-28
SECTION 608 - SIDEWALKS.....	6-33
SECTION 609 - CURB.....	6-37
SECTION 610 - STONE FILL, RIPRAP, STONE BLANKET, AND STONE DITCH PROTECTION.....	6-41
SECTION 611 - Reserved.....	6-44
SECTION 612 - BITUMINOUS SEALING.....	6-44
SECTION 613 - EROSION CONTROL BLANKETS.....	6-44

SECTION 614 - GEOCELL SLOPE PROTECTION	6-45
SECTION 615 - LOAM.....	6-49
SECTION 616 - SODDING	6-52
SECTION 617 - SOIL CONDITIONERS	6-54
SECTION 618 - SEEDING	6-54
SECTION 619 - MULCH	6-58
SECTION 620 – GEOTEXTILES	6-60
SECTION 621 - LANDSCAPING	6-67
SECTION 622 - TRANSPLANTING SHRUBS, HEDGES, AND TREES	6-77
SECTION 623 – MONUMENTS	6-80
SECTION 624 - VACANT.....	6-80
SECTION 625 - WATER SERVICE SUPPLY LINES.....	6-80
SECTION 626 - FOUNDATIONS, CONDUIT, AND JUNCTION BOXES FOR	6-82
HIGHWAY SIGNING, LIGHTING, AND SIGNALS	6-82
SECTION 627 - PAVEMENT MARKINGS	6-92
SECTION 628 - VACANT.....	6-97
SECTION 629 - HAND LABOR	6-97
SECTION 630 - VACANT.....	6-97
SECTION 631 - EQUIPMENT RENTAL.....	6-97
SECTION 632 and 633 - VACANT	6-101
SECTION 634 - HIGHWAY LIGHTING.....	6-101
SECTION 637 - DUST CONTROL	6-113
SECTION 638 - BRIDGE LIGHTING.....	6-114
SECTION 639 - ENGINEERING FACILITIES	6-114
SECTION 640 - VACANT.....	6-119
SECTION 641 - REST AREA FACILITIES.....	6-119
SECTION 642 - STEPS.....	6-119
SECTION 643 - TRAFFIC SIGNALS	6-121
SECTION 644 - GLARE BARRIER.....	6-132
SECTION 645 - HIGHWAY SIGNING	6-132
SECTION 646 through 651 VACANT.....	6-147
SECTION 652 - MAINTENANCE OF TRAFFIC.....	6-147
SECTION 653 - POLYSTYRENE PLASTIC INSULATION.....	6-162
SECTION 654 - INTELLIGENT TRANSPORTATION SYSTEMS.....	6-164
SECTION 655 - ELECTRICAL WORK.....	6-164
SECTION 656 - TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL.....	6-164
SECTION 657 - REHABILITATION OF PITS.....	6-172
SECTION 658 - ACRYLIC LATEX COLOR FINISH.....	6-172
SECTION 659 - MOBILIZATION	6-174

SECTION 660 ON-THE-JOB TRAINING	6-174
SECTION 670 – GABION WALL.....	6-177
SECTION 671 – DRY CAST SEGMENTAL BLOCK WALL	6-178
SECTION 672 - PRECAST CONCRETE BLOCK GRAVITY WALL	6-178
SECTION 673 - WET CAST SMALL LANDSCAPE BLOCK WALL.....	6-188
SECTION 674 - PREFABRICATED CONCRETE MODULAR GRAVITY WALL.....	6-198
SECTION 675 – SOIL NAIL WALL.....	6-205
SECTION 676 - SOLDIER PILE AND LAGGING WALL.....	6-205
SECTION 677 - MECHANICALLY STABILIZED EARTH RETAINING WALL	6-205
SECTION 678 – GEOSYNTHETIC REINFORCED MECHANICALLY STABILIZED EARTH RETAINING WALL	6-220
SECTION 679 – FIELDSTONE RETAINING WALL	6-220
SECTION 680 – ROCKERY WALL	6-224
SECTION 681 – PRECAST AGGREGATE-FILLED, CONCRETE BLOCK GRAVITY WALL	6-225
Chapter 7 DIVISION 700 - MATERIALS	7-1
SECTION 701 - STRUCTURAL CONCRETE RELATED MATERIAL.....	7-3
SECTION 702 - BITUMINOUS MATERIAL.....	7-5
SECTION 703 - AGGREGATES.....	7-9
SECTION 704 - MASONRY UNITS.....	7-17
SECTION 705 - JOINT MATERIAL.....	7-17
SECTION 706 - NON-METALLIC PIPE	7-18
SECTION 707 - METALLIC PIPE	7-19
SECTION 708 - PAINTS AND PRESERVATIVES	7-21
SECTION 709 - REINFORCING STEEL AND WELDED STEEL WIRE FABRIC.....	7-21
SECTION 710 - FENCE AND GUARDRAIL.....	7-22
SECTION 711 - MISCELLANEOUS BRIDGE MATERIAL.....	7-25
SECTION 712 - MISCELLANEOUS HIGHWAY MATERIAL	7-28
SECTION 713 - STRUCTURAL STEEL AND RELATED MATERIAL	7-41
SECTION 714 - JOINT SEALS	7-45
SECTION 715 - LIGHTING MATERIAL.....	7-46
SECTION 716 - STRUCTURAL ALUMINUM AND RELATED MATERIAL.....	7-52
SECTION 717 - ROADSIDE IMPROVEMENT MATERIAL.....	7-53
SECTION 718 - TRAFFIC SIGNALS MATERIAL.....	7-57
SECTION 719 - SIGNING MATERIAL	7-77
SECTION 720 - STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS,.....	7-82
LUMINAIRES AND TRAFFIC SIGNALS	7-82
SECTION 721 - BREAKAWAY DEVICES.....	7-88
SECTION 722 - GEOTEXTILES.....	7-89

