

INDEX
A

Index topics in all caps denotes the head of a section.

Abbreviations	1-1
Abraded Surfaces	6-23
Accelerated Curing of Concrete (Optional).....	5-171
Acceptable Work.....	1-3
Acceptance	1-3, 1-81
ACCEPTANCE CRITERIA	4-18
Acceptance Method A.....	5-47
Acceptance Method A, B & C.....	4-17
Acceptance Method B	5-47
Acceptance Method C	5-47
Acceptance Methods A and B	5-45
Acceptance Test	1-3
ACCEPTANCE TEST FREQUENCY	3-15, 3-23
Acceptance Testing	4-18
ACRYLIC LATEX COLOR FINISH	6-168
Actual Costs	1-3
Adjusting Catch Basins and Manholes	6-14
Adjustments for Delay.....	1-109
AGGREGATE BASE AND SUBBASE COURSE	3-1
Aggregate	1-3, 3-1
Aggregate Base	3-1
Aggregate for Base and Subbase.....	7-11
Aggregate for Concrete	7-8
Aggregate for Crushed Stone Surface	7-18
Aggregate for Sand Leveling.....	7-11
Aggregate for Untreated Surface Course and Leveling Course.....	7-17
Aggregate Subbase.....	3-1
Aggregates.....	2-31, 2-34
AGGREGATES	7-8
Aggregates for HMA Pavements.....	7-13
Agreement	1-3
Agricultural Ground Limestone.....	7-60
Air-Entraining Chemical Admixtures.....	7-4
Alkali Silica Reactive Aggregates	7-10
Allowable Work Times	1-90
Altering Catch Basin	6-14
Altering, Adjusting, and Rebuilding Catch Basins and Manholes.....	6-14
Aluminum Alloy Structural Plate Pipe, Pipe Arches, Arches,.....	7-27
Aluminum Bridge Railing	5-98
Aluminum Coated (Type 2) Corrugated Steel Pipe.....	7-27
Aluminum Extrusions.....	7-74
Aluminum Railings.....	7-58
Aluminum Sheets	7-75
Ambiguities	1-24
Anchor Bolts with Breakaway Couplings.....	6-104
Anchor Bolts without Breakaway Couplings.....	6-105
Anchor Rods.....	5-84, 5-137
Ancillary Bridge Products	5-83
Ancillary Bridge Products and Support Structures.....	5-84

Index topics in all caps denotes the head of a section.

Apparent Low Bidder	1-3
Apparent Successful Bidder	1-4
Appeal	1-31
Appeal to Commissioner	1-129
APPENDIX A	1
Application of Bituminous Material	4-33
Application of Bonding Agent	5-124
Applicator Qualification	5-89
Approved	1-22
Asphalt Binder	3-16
Asphalt Cement	7-5
Asphalt Filler for Structural Plate Arches	7-8
Assembling	6-2
Assembling Steel	5-75
Authority and Responsibilities	1-34
Authority of Residents and Inspectors	1-34
Authority of the Resident	1-34
Automatic Ticket Printer System	4-5
Automation of Batching	4-5
Automobile Liability	1-123
Award	1-4
AWARD AND CONTRACTING	1-28
Award Conditions	1-4, 1-31
Award of Contract by Department	1-33

B

Backfill Class A	6-71
Backfilling	2-36
Backfilling Culverts and Storm Drains	6-9
Base Metal Repairs	5-69
Base Price	1-105
BASES	3-1
Basic Requirements	1-23
Basis of Payment	1-117
Batching	5-21
Beam Mounted Signs	6-131
Bearings	5-74
Bearings and Anchorages	5-74
Bent Plates	5-69
Best Value Procurement Process Using a Request for Proposa	1-4
Bid	1-4
Bid Amendment	1-4, 1-25
Bid Bond	1-4
Bid Contact Person	1-4
Bid Defects	1-27
Bid Documents	1-5
Bid Escrow	1-32
Bid Escrow Documentation	1-5
Bid Guaranty	1-5, 1-25
Bid Opening	1-5, 1-26
Bid Responsiveness	1-27

Index topics in all caps denotes the head of a section.

Bidder.....	1-4
BIDDING.....	1-23
Bituminous Curb	6-37
Bituminous Material.....	4-31
BITUMINOUS MATERIAL	7-5
BITUMINOUS SEALING.....	6-42
BITUMINOUS TACK COAT	4-31
BLAST VIBRATION CONTROL AND MONITORING	2-17
Blasting Zone - Signage and Flaggers	1-51
Blue Book	1-5
Bond for Use of Municipal Roads.....	1-121
BONDING AND INSURANCE	1-120
Bonding for Landscape Maintenance Period.....	1-121
Bonding of Cast-In-Place Concrete Slabs	5-31
Bonds	1-121
Borrow	2-21
Boundary Markers.....	1-59
BREAKAWAY DEVICES	7-84
Breakaway Supports.....	6-102
Breakaway Supports for Sign Supports.....	6-132
Brick for Paving	7-23
Brick Sidewalk.....	6-34
Bridge.....	1-5
Bridge Drains	7-33
Bridge Drains and Incidental Drainage	5-41
Bridge Overpass Mounted Sign Supports	6-132
Bridge, Cantilever and Butterfly Support Structure Foundations.....	6-133
Bridge, Cantilever, and Butterfly Type Sign Supports	6-131
Bronze or Copper-Alloy Bearing and Expansion Plates	7-49
Builders Risk.....	1-123
Burning.....	2-4
Business Day.....	1-6

C

Cable Installation.....	6-103
Calcium Chloride	6-110
Calcium Nitrite.....	7-5
Calculated Dimensions	1-22
Calendar Day.....	1-6, 6-157
Camber and Curvature.....	5-70
Career Centers.....	1-71
Catch Basin and Manhole Frames, Grates and Covers.....	7-44
Catch Basin and Manhole Steps.....	7-44
Cement or Lime Spreader.....	3-18
Cement Spreader	3-9
Certification of DBE attainment.....	1-68
Certification of DBE attainment on Contracts.....	1-68
Chain Link Fence	6-29
CHANGES.....	1-107
Changes in Quantities.....	1-107
Changes Permitted.....	1-107

Index topics in all caps denotes the head of a section.

Chipping	2-4
Classification of Signs	6-133
Clay or Shale Brick	7-23
Clearing	2-2
CLEARING RIGHT-OF-WAY	2-1
Closeout Documentation	1-6, 1-95
Cofferdam Construction	5-113
COFFERDAMS	5-113
Cold in-Place Recycled Asphalt Pavement	3-30
COLD WEATHER TEMPERATURE.....	5-23
Cold-finished Carbon Steel Shafting	7-50
Commencement of Contract Time and Work	1-90
Commercial General Liability	1-122
Commercially Useful Function.....	1-65
Common Borrow	7-19
Communication and Coordination.....	1-39
Communication Before Bid Opening	1-24
Compensable Delay.....	1-6, 1-110
Completion	1-7
Completion Incentives and Disincentives.....	1-93
Completion of Physical Work	1-7
Composition of Mixture	3-24
Compression Couplers	5-61
Compression Seals	7-52
Computation and Extension of Time	1-33
Conceptual Review and Response	1-114
Conceptual VECP	1-113
CONCRETE BARRIER.....	5-150
Concrete Fill.....	5-51
Concrete Foundations.....	6-84
Concrete Masonry Blocks	7-23
Concrete Steps.....	6-117
Concurrent Delays	1-111
Conduit.....	1-7, 6-82
Conform or Conformity.....	1-7
Connecting Pin for Temporary Concrete Barrier	5-151
Connections Using High Strength Bolts.....	5-75
Construction Easement.....	1-7
Construction Limit Line	1-7
Construction of False work	5-25
Construction of Forms.....	5-23
Construction Surveying	1-56
Contract	1-7
Contract Bonds.....	1-7
Contract Completion Date	1-7
Contract Completion Time.....	1-7
Contract Documents	1-8
Contract Execution.....	1-8
Contract Modification	1-8, 1-120, 1-126
Contract Time.....	1-8
Contract Time and Contract Completion Date	1-90
Contractor.....	1-8
Contractor's General Authority and Responsibilities	1-35

Index topics in all caps denotes the head of a section.

CONTROLLED BLASTING METHODS	2-17
Controller Cabinet	7-70
Controllers	7-68
Cooperation With Other Contractors	1-45
Coordination of Road Closure/Bridge Closure/Bridge Width Restriction Notification	1-46
Coordination with Marine Traffic	1-46
Coordination with Railroads	1-46
Copper Tubing	7-46
Correcting Materials	5-68
Corrugated Aluminum Alloy Pipe and Pipe Arches	7-26
Corrugated Aluminum Alloy Pipe for Underdrain	7-26
Corrugated Polyethylene and Polypropylene Pipe for Option III	6-7
Corrugated Polyethylene Pipe for Underdrain, Option I, and Option III Culvert Pipe	7-25
Corrugated Polypropylene Pipe for Option I and Option III Culvert Pipe	7-25
Corrugated Steel, Metallic Coated Pipe	7-26
Corrugated Steel, Metallic Coated Pipe for Underdrain	7-26
Critical Path	1-8
Critical Rock Slopes	1-8
Crushed Stone ¾-Inch	7-18
Crushed Stone 2-Inch	7-22
Crusher Dust	3-17
Cultivation	6-73
Curable Bid Defects	1-28
CURB	6-36
Curb Type 5	7-37
Curing	3-34
CURING BOX FOR CONCRETE CYLINDERS	5-118
Curing by Moisture Retention	5-171
Curing Concrete	5-40
Curing Materials	7-4
Cushion blasting	2-18
Cutting and Folding Mesh	6-4
Cutting and Transporting	6-51

D

Davis-Bacon and Related Act Provisions	24
Daylight Work Times	6-154
Debarment	1-23
Default	1-130
DEFAULT AND TERMINATION	1-130
Defects or Defective Work	1-8
Defense of Claims	1-124
Delay	1-9
Delay and Request for Adjustments	1-111
Delays	1-109
Deliver	1-9
Delivery of Bids	1-25
Delivery Slips	1-101
Demountable High Intensity	7-74
Demountable Reflectorized Delineators	7-76
Demounting and Reinstalling Existing Signs and Poles	6-140

Index topics in all caps denotes the head of a section.

Department.....	1-9
Depositing Concrete under Water	5-29
Detailed Notice of Dispute.....	1-126
Detailed VECP.....	1-114
Detectable Warnings Materials	6-32
Detensioning.....	5-172
Dewatering Forms	5-29
Die Stamping.....	5-69
Differing Site Conditions	1-9, 1-108
Director’s Response	1-129
Disadvantaged Business Enterprise.....	1-9
Disadvantaged Business Enterprises Program.....	1-65
Discharge of Subcontractors	1-48
Dispute Resolution (Methods A B & C only).....	4-27
Dispute Resolution Time Extensions.....	1-126
Dispute Resolution Variance Limits.....	4-28
Disputes.....	1-9
DITCH AND INSLOPE EXCAVATION.....	2-40
Ditch Excavation	2-41
Drainage.....	1-9
Drainage and Minor Structures	2-37
Drainage Geotextile.....	6-60
Drains or Weep Holes	5-117
Drawings	1-9
Dredge Material (Dredge Spoils)	1-9
Dredge Spoils (Dredge Materials).....	1-62
Drilling and Blasting of Solid Rock Subgrade	2-20
Drive System Components and Accessories.....	5-4
Driven Pile Capacity - Wave Equation.....	5-8
Driven Pile Resistance, Pile Testing, and Acceptance	5-8
Driving Procedures and Tolerances	5-4
Dry Film Thickness	5-92
DTI Verification Test.....	5-78
DUST CONTROL	6-109
Duties Regarding Inspection of Work	1-36
Duty to Notify Department If Ambiguities Discovered.....	1-35
Dynamic Load Tests.....	5-14
Dynamic Pile Tests.....	5-9

E

Early Completion Date Delay Claims	1-111
Early Negotiation	1-42, 1-126
Earth Embankment with Moisture and Density Control.....	2-25
Earth Embankment-Layer Method	2-24
EARTHWORK	2-1
Edge Hardness.....	5-69
Edge Planing	5-69
Elastomer for Seal Elements	7-51
ELASTOMERIC BEARINGS	5-138
Electronic Design Data and Digital Terrain Model (DTM)	1-57
Elimination of Items.....	1-108

Index topics in all caps denotes the head of a section.

Embankment Construction	2-22
Emergency.....	1-88
Emulsified Asphalt	3-25, 7-6
Emulsified Asphalt Sealing Compound.....	7-8
End of Winter Suspension.....	1-92
ENERGY ABSORBING UNIT	5-153
ENGINEERING FACILITIES.....	6-111
Entitlement to Adjustments	1-110
Entrained Air	5-49
Environmental Non-compliance.....	1-64
Environmental Requirements	1-61
Epoxy Coating.....	5-56
Epoxy Resin	7-46
Equal Opportunity and Civil Rights	1-65
Equipment	1-10
Equipment for Driving Piles.....	5-2
EQUIPMENT RENTAL	6-94
Equitable Adjustment	1-10
Equitable Adjustments to Compensation and Time.....	1-117
Erosion Control Blankets	7-63
EROSION CONTROL BLANKETS	6-43
Erosion Control Geotextile.....	6-60
Escalation Process	1-125
Estimated Quantities.....	1-24
Excusable Delay	1-10, 1-109
Execution of Contract.....	1-32
Existing Shoulder	2-32, 2-34
EXPANSION DEVICES - MODULAR	5-131
EXPANSION DEVICES - NON-MODULAR	5-126
Explosives	1-51
Extra Work.....	1-10, 1-108

F

Fabric Trough or Curtain.....	5-129
Fabrication of Type I Guide Signs	6-134
Fabrication of Type I Regulatory, Warning and Route Marker.....	6-134
Fabrication of Type II Guide Signs and Type II Plywood, Regulatory	6-135
Fabrication Tolerances	5-136
Facilities for Fabrication Inspection.....	5-66
Facility Requirements.....	5-65
Failure to Fulfill Award Conditions	1-33
Fastener Assemblies for Testing.....	5-76
FENCE AND GUARDRAIL	7-28
FENCES	6-27
Fertilizer	7-59
Fertilizer and Agricultural Ground Limestone	6-54
Fertilizing	6-71
Field Layout Specifications	1-59
Field Offices.....	6-111
Field Welding.....	5-83
FIELDSTONE RETAINING WALL.....	6-214

Index topics in all caps denotes the head of a section.

Filling	6-3
Filling of Hand Filled Gabions	6-3
Final Acceptance	1-96
Final Agency Action	1-129
Final Cleanup and Finishing	1-95
Final Quantity Voucher	1-106
FINGER JOINT AND FABRIC TROUGH/FABRIC CURTAIN	5-128
Finishing Concrete and Repairing Defects	5-172
Finishing Concrete Surfaces	5-34
Flaggers	6-153
Flashing Arrow Board	6-144
Flashing Lights	7-44
Fly Ash	7-4
FLYROCK CONTROL	2-17
Followers	5-4
For Convenience	1-132
Force Account Work	1-10, 1-117
Forest Protection and Laws	1-38
Forfeiture of Award	1-33
Forms and False work	5-23
FOUNDATION PILES	5-1
Foundations	5-109, 6-121
FOUNDATIONS, CONDUIT, AND JUNCTION BOXES FOR	6-80
FRENCH DRAINS	5-116
Full Compensation	1-107
Full Depth Reclamation Procedure	3-6
FULL DEPTH RECYCLED PAVEMENT	3-5, 3-15
Full Depth Recycling Procedure	3-11
FULL DEPTH RECYCLING WITH CEMENT	3-7
Furnishing of Other Property Rights, Licenses and Permits	1-35
FUSION BONDED EPOXY COATING	5-96

G

GABIONS AND MATTRESSES	6-1
Galvanized Gabions without Polyvinylchloride Coating	7-32
Geocell base material	6-45
Geocell Confinement System	6-44
GEOCELL SLOPE PROTECTION	6-44
Geocell Strip Properties and Assembly	6-45
Geometric and Approach Design	5-110
Geometrics	1-10
Geotechnical Information	1-10, 1-24
GEOTEXTILES	6-58, 7-85
Gland Type Seals	7-52
GRANITE MASONRY	5-147
Granular Borrow	7-19
Granular Materials	1-53
Ground Anchors	7-63
Grounds for Default	1-130
GUARDRAIL	6-20

H

Index topics in all caps denotes the head of a section.

Hammer Cushion.....	5-4
Hammer Performance.....	5-11
Hammers	5-2
HAND LABOR.....	6-93
Handling.....	1-76
Handling and Storing Materials.....	5-74
Handling, Storage and Transportation.....	5-161
Haul Roads.....	2-21
Hauling of Materials and Equipment.....	1-54
Hazardous Materials.....	1-62
H-Beam Piles, Splices and Tips	7-34
Health and Safety	1-49
Health and Safety Plan	1-50
Health and Safety/Right-to-Know	3-9
Hearing.....	1-11
Heat Cambering and Curving	5-70
Heavy Riprap	7-21
Helmet.....	5-4
Herbicide.....	7-63
Herbicides	2-3
High Range, Water Reducing.....	7-4
High Strength Bolts.....	7-48
Highway	1-11
HIGHWAY LIGHTING	6-97
HIGHWAY SIGNING.....	6-128
Historic and Archaeological Considerations	1-64
HMA Pavement Sidewalk	6-33
Holes for Base Plates	5-84
Holes for High Strength Bolts	5-73
Holidays	1-11
Hot Mix Asphalt.....	1-105
Hot Mix Asphalt Curb.....	7-46
Hot Mix Asphalt Documentation	4-9
HOT MIX ASPHALT PAVEMENT	4-1, 4-30
Hot Mix Asphalt Plant.....	4-5
HOT-DIP GALVANIZING	5-93
Humic Acid Soil Conditioner.....	7-59
Humus	7-63
Hydrated Lime.....	3-16

I

In Stream Work.....	1-12
Incentive/Disincentive Payment.....	1-11
Indemnification	1-120
Independent Assurance (IA).....	1-11
Induced Trench.....	6-10
Industry Standards.....	1-74
Inexcusable Delay	1-11, 1-110

Index topics in all caps denotes the head of a section.

Inslope Excavation	2-40
Inslope Excavation - Guardrail.....	2-41
Inslope Rehabilitation	2-41
Inspection Requirements	1-79
Inspector.....	1-11
Installation of Bearings	5-137
Installation of Delineators	6-139
Installation of Gabions	6-2
Installation of Precast Units	5-161
Installation of Precast/Prestressed Deck Panels	5-174
Installation of Sign Mounted Beacon Array.....	6-140
Installation of Slabs, Beams and Girders.....	5-173
Installation of Traffic Control Devices.....	6-151
Installation of Type I Signs	6-136
Installation of Type II Signs	6-138
Insurance Certificates	1-32
Intent of the Contract.....	1-49
Interpretation and Interpolation.....	1-39
Isolated Areas.....	4-19

J

Jetting	5-5
Joining Culverts.....	6-8
Joint Covenants of Good Faith and Fairness	1-34
JOINT MATERIAL	7-23
Joint Mortar.....	7-24
Judicial Review	1-130

L

Landscape Establishment Period Obligations	1-12
Landscape Subcontractor	1-12
LANDSCAPING.....	6-65
Lane.....	1-12
Lapping	5-61
Large Culvert.....	1-12
Laying Culvert.....	6-8
Laying Sod	6-51
Leads	5-4
Light Standard	6-104
Light Standards	6-99
LIGHTING MATERIAL	7-52
Limits on Subcontracting	1-47
Liquidated Damages.....	1-92
Liquidated Damages.....	1-12, 1-93
Loading Structures and Opening to Traffic	5-41
LOAM.....	6-48
Location and Alignment Tolerance	5-6
Location and Time	1-25
Loop Detector and Loop Detector Wire Installation	6-121

Index topics in all caps denotes the head of a section.

Lot Size	4-18
Lowering System for High Mast Lighting	7-56
Lubricant Adhesive	7-51
Luminaire LED fixtures.....	7-53
Luminaires.....	6-105
Lump Sum or Each.....	1-97

M

Mail Box Post.....	6-23
Maine Code of Fair Practices and Affirmative Action	1-68
Maine Human Rights Act	1-69
Mainline Cold Milling Machine	3-31
Maintenance and Acceptance	6-55
Maintenance During Suspension of Work.....	1-54
Maintenance During Winter Construction.....	1-53
MAINTENANCE OF TRAFFIC	6-144
Maintenance of Traffic Control Devices	6-157
Maintenance of Work	1-52
Maintenance Period.....	6-74
Major Item.....	1-12
Major Structures	2-38
Mandatory Notice.....	1-125
MANHOLES, INLETS, AND CATCH BASINS	6-13
Manufacture of Precast Units	5-159
Marking and Delivery	5-74
Mass	1-98
Match marking	5-73
Material	1-12
Material Friction Test.....	5-136
Material Identification and Control	5-67
MATERIALS	7-1
Measurement of Quantities for Payment	1-96
Measurement Provisions	1-97
Mechanical Couplers.....	5-61
MECHANICALLY STABILIZED EARTH RETAINING WALL	6-200
Metal Bin Type Retaining Wall	7-50
Metallic Conduit Installation	6-83
Metallic Pipe	7-46
METALLIC PIPE	7-26
Method A	4-16, 4-20
Method B.....	4-16, 4-21
Method C.....	4-16
Method D	4-22
Microwave Detector Installation	6-122
Microwave Detectors	7-67
Mill Test Reports.....	5-67
MINIMUM QUALITY CONTROL FREQUENCIES.....	3-13
Minor Item	1-12
Minor Span.....	1-13
Misfits	5-83
Mixing and Delivery	5-22

Index topics in all caps denotes the head of a section.

MOBILIZATION.....	6-170
Mobilization Payments.....	1-102
Modification.....	1-13
Monitoring and Communications.....	1-92
MULCH.....	6-57
Mulch.....	7-61
Mulch Binder.....	7-62
Mulching.....	6-54
Multiple Pay Items.....	1-23

N

Narrow Roads.....	1-55
National Highway System(NHS).....	1-13
Neoprene Pads.....	7-34
New Aggregate.....	2-32, 2-34
New Aggregate and Additional Recycled Material.....	3-5, 3-8
New Concrete Curb Ramps.....	6-34
New Ditch Excavation.....	2-41
Night Work.....	1-90, 6-154
No Separate Payment.....	1-92
No Waiver of Legal Rights.....	1-96
Non-Compensable Items.....	1-117
Non-conforming Work.....	1-13
Non-Conforming Work.....	1-87, 1-106
Nondestructive Testing.....	5-72
Non-Metallic Conduit.....	7-52
Non-metallic Pipe, Rigid.....	7-46
Non-Resident Contractor Requirements.....	1-32
Notice / Inspection / Punch List.....	1-95
Notice and Information Gathering.....	1-29
Notice of Award.....	1-13
Notice of Beginning Work.....	5-65
Notice of Default.....	1-131
Notice of Determination.....	1-30
Notice of Intent to Award.....	1-13, 1-31
Notice to Contractors.....	1-13
Notices / Final Inspections / Physical Work Completion.....	1-95

O

Offer.....	1-13
Offset Blocks.....	6-23
ON-THE-JOB TRAINING.....	6-170
Option I.....	6-6
Option III.....	6-6
Order.....	1-13
Ordering Piles.....	5-2
Outside Project Limits.....	1-55
Overlimit Loads.....	1-55
Owner.....	1-13

P

Index topics in all caps denotes the head of a section.

PAINTS AND PRESERVATIVES.....	7-27
Panels	6-134
Partnering	1-13, 1-39
Patching of Epoxy Coating.....	5-57
Patents and Copyrights.....	1-38
Pavement Butt Joints	2-9
Pavement Density.....	4-19
PAVEMENT MARKINGS.....	6-90
PAVEMENT SMOOTHNESS	4-28
Pavement Structure.....	1-13
PAVEMENTS.....	4-1
Pay Adjustment	4-23
Pay Adjustment for Air Content, Methods A and B.....	5-53
Pay Adjustment for Chloride Permeability, Methods A and B.....	5-52
Pay Adjustment for Compressive Strength, Methods A and B.....	5-52
Pay Adjustment Method A	4-25
Pay Adjustment Method B	4-25
Pay Adjustment Method C	4-26
Pay Adjustment Method D.....	4-26
Pay Adjustments for Compressive Strength, Chloride Permeability	5-53
Pay Factor	4-23
Pay Item	1-14
PAYMENT	1-96
Payment Bond.....	1-14
Payment for Materials Obtained and Stored.....	1-103
Payment Provisions	1-107
Payrolls and basic records	27
Pedestrian Detectors.....	7-67
Pedestrian Signal Indications	7-66
Performance and Payment Bonds.....	1-31
Performance Bond.....	1-14
Performance Graded Asphalt Binder.....	4-3
Period Price	1-106
Permanent Concrete Barrier Type II	5-150
Permanent Concrete Barrier Type IIIa	5-150
Permanent Concrete Barrier Type IIIb	5-150
Permanent Concrete Transition Barrier.....	5-150
Permanent Texas Classic Rail	5-150
Permit Requirements	1-61
Permits	1-14
Personal Liability	1-35
Photo Electric Control.....	7-54
Physical Work	1-14
Pile Driving Equipment.....	5-3
Pile Splices.....	5-13
Pile Tips	5-13
Piles Furnished.....	5-13
Piles in Place	5-13
PIPE CULVERTS AND STORM DRAINS.....	6-5

Index topics in all caps denotes the head of a section.

Pit or Quarry Requirements.....	1-62
Placement Equipment.....	3-9
Placing and Fastening.....	5-58
Placing Concrete.....	5-27
Placing Stones.....	6-40
Plain and Hand Laid Riprap.....	7-21
Plan Quantities.....	1-97
Plans.....	1-14
Plant Material-All Classes.....	6-66
PLANT MIXED RECYCLED ASPHALT PAVEMENT.....	3-24
Plant Pits and Beds.....	6-69
Plant Size and Root Balls.....	6-67
Planting Seasons.....	6-70
Plates for Fabricated Members.....	5-68
Plumb and Batter.....	5-47
Plywood.....	7-76
Poles.....	6-120
Polymer Precoated, Galvanized Corrugated Steel Pipe and Pipe Arches.....	7-26
POLYSTYRENE PLASTIC INSULATION.....	6-159
Polyvinylchloride (PVC) Coated Gabions.....	7-32
Polyvinylchloride Conduit Installation.....	6-84
Portable Changeable Message Sign.....	6-147
Portable Power Unit for Lowering Luminaires.....	6-105
Portland cement.....	7-3
Portland Cement.....	3-8, 3-16
Portland-pozzolan cement.....	7-3
Post-Bid Qualification.....	1-29
Posted Roads or Bridges.....	1-55
POT or DISC BEARINGS.....	5-140
Potted and Container Grown Plants.....	6-73
Preaugering.....	5-6
PRECAST AGGREGATE-FILLED, CONCRETE BLOCK GRAVITY WALL.....	6-216
PRECAST CONCRETE BLOCK GRAVITY WALL.....	6-173
Precast Concrete Slab.....	7-47
Precast Concrete Units.....	7-39
PRECAST STRUCTURAL CONCRETE.....	5-155
PRECAST, PRESTRESSED CONCRETE SUPERSTRUCTURE.....	5-163
Precast/prestressed Deck Panels.....	5-173
Preconstruction Conference.....	1-40
Pre-excavation.....	5-6
PREFABRICATED CONCRETE MODULAR GRAVITY WALL.....	6-193
Prefabricated Pile Tips.....	5-12
Premises.....	1-14
Preparation and Protection of the Subgrade.....	2-26
Preparation of the Embankment Area.....	2-21
Prequalification Application.....	1-14
Prequalification Procedure.....	1-15
Prestressing.....	5-171
Pre-Suspension Work.....	1-93
Prewired Conduit.....	7-52
Price Adjustment for Hot Mix Asphalt.....	1-104
Priority of Conflicting Contract Documents.....	1-22
Process Control Test.....	1-15

Index topics in all caps denotes the head of a section.

Process Control Test Cylinders	5-159, 5-170
Profile Grade	1-15
Program	1-15
Progress Meeting	1-15
Progress Meetings	1-41
Progress Payment Estimates	1-102
Progress Payments	1-102
Project	1-15
Project Closeout	1-95
Project Level Negotiation	1-126
Project Limits	1-15
Project Manager	1-15
Project Records	1-15, 1-37
Project Specific Emergency Planning	1-50
Projected Payment Schedule	1-91
Prompt Payment of Subcontractors	1-48
Promptly	1-89
Proposal	1-16
Proposer	1-16
Protection of Material	5-55
Protection of Plants	6-74
PROTECTIVE COATING FOR CONCRETE SURFACES	5-119
Protective Coatings	5-68
Protective Liability	1-123
Pruning	6-73
Punch List	1-16
PVC (Polyvinylchloride) Perforated Pipe	7-25
PVC (Polyvinylchloride) Pipe	7-25

Q

QC Inspector Qualifications	1-79
QCP Non-Compliance	1-80
QUALITY	1-73
Quality Assurance	1-80
Quality Assurance (QA)	1-16
Quality Control	1-77, 3-12
Quality Control (QC)	1-16
Quality Control Method A, B & C	4-11
Quality Control Method D	4-17
Quality Control Plan	5-1
Quality Control Plan (QCP)	1-16
Quality Control Plan Requirements	1-78
Quality Control, Method C	5-45
Quality Level Analysis	1-83
Quality Requirements	1-74
Quality Standards	1-74
Questions From Bidders	1-24

R

Index topics in all caps denotes the head of a section.

Race-neutral Goals	1-67
RAILINGS	5-97
Railroad Protective Liability	1-124
Rails	6-23
RAP for Asphalt Pavement	7-14
RAP Verification Limits.....	7-15
Rapid Chloride Permeability	5-49
Rebuilding Catch Basins and Manholes	6-15
Received Bill.....	1-16
Received or Receipt	1-16
Recycled Asphalt Pavement	7-14
Reference Stake.....	1-17
Reflective Sheeting.....	6-134
Reinforced Concrete Pipe.....	7-24
REINFORCING STEEL	5-55
Reinforcing Steel and Welded Steel Wire Fabric.....	5-158
REINFORCING STEEL AND WELDED STEEL WIRE FABRIC.....	7-27
Rejection by Resident.....	5-47
Rejections.....	5-66
Related Entities	1-17
Relationship to Partnering Partnering.....	1-125
Remedial Work	1-89
Remedial Work Procedure and Requirements.....	1-89
Removal of Forms and False work.....	5-26
Removal of Unsound Concrete.....	5-122
Removing Bituminous Concrete Pavement	2-8
Removing Buildings.....	2-6
Removing Existing Bituminous Pavement	2-7
Removing Existing Superstructure	2-6
Removing Light Standards	6-105
Removing Lines and Markings.....	6-92
Removing Manholes or Catch Basins.....	2-8
Removing Pavement Surface.....	2-8
Removing Portland Cement Concrete Pavement.....	2-8
Repairing Defects and Filling Form Tie Holes in Concrete Surfaces.....	5-33
Request for Proposal	1-17
Requests for Information.....	1-42
Required Pile Resistance	5-11
Resetting Stone or Portland Cement Concrete Curb	6-38
Residen.....	1-17
Resident Work Order	1-17
Resolution of Disputed Acceptance Test Results	5-47
RESOLUTION OF DISPUTES	1-124
Responsibility for Damage to Work.....	1-38
Responsibility for Property of Others.....	1-38
Retainage.....	1-103
Reuse of Bolts	5-83
Review Standards and Procedures.....	1-61
Right to Inspect Work	1-35
Right to Reject Bids	1-29
Right to Suspend Work	1-35
Right to Withhold Payments.....	1-106
Right-of-Way.....	1-17

Index topics in all caps denotes the head of a section.

RIGHTS AND RESPONSIBILITIES	1-33
Riprap.....	6-41
Risk of Other Conditions.....	1-108
Road	1-17
Roadbed	1-17
Roadside.....	1-17
Roadside Development.....	1-17
ROADSIDE IMPROVEMENT MATERIAL	7-59
Roadside Signing.....	7-78
Roadway.....	1-17
Roadway Excavation.....	2-19
Rock Borrow	7-20
Rock Embankments.....	2-25
Roles Regarding Quality	1-73
Rotational Capacity Test	5-76
Rumble Strip Crossing	6-154

S

Safety Responsibility.....	1-49
Salvage of Existing Hot Mix Asphalt Pavement	2-14
Sampling and Testing	1-76
Schedule of Items	1-18
Schedule of Liquidated Damages	1-94
Schedule of Work.....	1-18
Schedule of Work Required	1-91
Schedule Revisions.....	1-92
Scheduling of Work	1-91
Seal Coat and Top Coat Application (Paint)	5-96
Seasonal Work Restrictions.....	1-91
Secondary Wiring.....	7-53
Seed.....	7-60
SEEDING.....	6-52
Seeding Method Number 1.....	6-52
Seeding Method Number 2.....	6-52
Seeding Method Number 3.....	6-52
Selective Clearing and Thinning	2-2
Separation Geotextile	6-59
Service Connection	6-122
Set-retarding Chemical Admixtures	7-4
SEWPCP REQUIREMENTS	6-161
Sexual Harassment	1-72
SHOP APPLIED PROTECTIVE COATING - STEEL.....	5-87
Shop Bolts.....	5-73
Shop Drawings	1-18
Shop Strutting.....	6-9
Shoulder	1-18
Shoulder Cold Milling Machine.....	3-32
SHOULDER REHABILITATION	2-31
Shoulder Widening.....	6-23
Sidewalk.....	1-18
Sidewalk Construction.....	6-32

Index topics in all caps denotes the head of a section.

Sidewalk Materials	6-32
SIDEWALKS	6-31
Sieve Pay Adjustment	4-20
Sign Layout Drawings	6-129
Sign Type I guide signs	6-133
Sign Type I regulatory	6-133
Sign Type II guide signs	6-133
Sign Type II regulatory, warning and route marker	6-133
Signal Mounting	7-66
SIGNING MATERIAL	7-73
Silica Fume	7-5
Skew or Skew Angle	1-18
Slag	7-5
Sliding Surfaces	5-137
SLOPE PROTECTION	5-117
Sources	1-75
Special Backfill	2-38
Special Detour Construction	5-111
Special Detours	1-54
Special Provision	1-18
Specifications	1-18
Splicing	5-60
Splicing Piles	5-11
Spray Applied High Performance Membrane	5-103
Spreading and Finishing	4-9
Sprinkling	6-109
Stainless Steel	7-35
Standard Details	1-18
Standard Specifications	1-18
Start of Winter Suspension	1-92
State	1-18
State Wage Rates and Labor Laws	1-37
Static Load Test	5-9
Static Load Tests	5-14
STEEL BEARINGS	5-138
Steel Bridge Railing	5-98
Steel Pipe Hand Railing	5-98
Steel Pipe Piles and Steel Casings	5-6
Steel Structural Plate Pipe, Pipe Arches, Arches, Box Culverts,	7-26
STEPS	6-116
Stone Ballast	7-22
Stone Blanket	7-21
Stone Bridge Curb	6-38
Stone Curb	7-36
Stone Curbing and Edging	7-35
Stone Ditch Protection	6-41, 7-21
Stone Edging	6-38
Stone Fill	7-20
Stone Fill and Stone Blanket	6-41
STONE FILL, RIPRAP, STONE BLANKET, AND	6-40
Stone for French Drains	7-20
Stones for Gabions	7-32
Storage	1-75

Index topics in all caps denotes the head of a section.

Street	1-18
STRUCTURAL ALUMINUM AND RELATED MATERIAL.....	7-58
STRUCTURAL CONCRETE.....	5-17
Structural Concrete Box Culverts.....	5-50
Structural Concrete Culvert End walls	5-50
Structural Concrete Curb and Sidewalks	5-51
STRUCTURAL CONCRETE RELATED MATERIAL	7-3
STRUCTURAL CONCRETE REPAIR.....	5-121
Structural Concrete Rigid Frame Structures	5-50
Structural Concrete Superstructure Slabs	5-50
Structural Concrete, Abutments and Retaining	5-50
Structural Concrete, Approach Slabs	5-50
STRUCTURAL EXCAVATION.....	2-35
Structural Plate Box Culverts	5-107
Structural Plate Pipes and Pipe Arches	5-106
STRUCTURAL PLATE PIPES, PIPE ARCHES, ARCHES, AND METAL BOX CULVERTS.....	5-104
Structural Steel.....	7-47
STRUCTURAL STEEL.....	5-64
STRUCTURAL STEEL AND RELATED MATERIAL.....	7-47
STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS.....	7-79
Structures.....	1-19
STRUCTURES	5-1
Strut.....	1-19
Stud Shear Connectors, Anchors and Fasteners	7-33
STUD WELDED SHEAR CONNECTORS, ANCHORS, & FASTENERS	5-85
Subcontracting.....	1-47
Subcontractor	1-19
Subcontractor Claims for Payment.....	1-48
Subcontractor Quoted Work.....	1-119
Subgrade.....	1-19
Subgrade Treat	1-19
Sublot size	4-18
Substantial Changes to Major Items	1-107
Substantially Conform or Substantial Conformity.....	1-19
Substantially Conforming Work.....	1-87
Substructure.....	1-19
Successful Bidder	1-19
Sundays and Holidays	1-91
Superintendent.....	1-19
Superstructure	1-19
Supplemental Liquidated Damages	1-20, 1-95
Supplemental Standard Details.....	1-20
Support Structures	5-83, 6-129
Surety	1-20
Surface Roughness Requirements	5-138
Surface Tolerance.....	2-33, 2-34
Surface Treatment of Forms	5-25
Survey Quality Assurance	1-59
Survey Quality Control and Construction Layout	1-57
Survey Work Plan	1-57
Suspension From Bidding	1-23
Suspension of Work	1-92
Suspensions Due To Uncontrollable Events.....	1-92

Index topics in all caps denotes the head of a section.

Suspensions for Cause.....	1-93
Suspensions for Convenience.....	1-93

T

Taxes, Fees, Allowances, and Notices	1-106
Temperature Requirements	4-3
Temporary Concrete Barrier Type I.....	5-150
TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL.....	6-160
TEMPORARY STRUCTURAL SUPPORTS.....	5-146
Tension Couplers	5-61
Tensioning High Strength Bolts	5-79
Termination	1-131
Termination of VECP Process	1-115
Test Strip.....	3-14, 3-22
Testing.....	1-78
TESTING REQUIREMENTS	3-12, 3-34
Thermal Cutting	5-69
THERMAL SPRAY COATING.....	5-94
TIME.....	1-90
Top-coating Galvanized Surfaces.....	5-94
Traffic Control	6-152
Traffic Control and Management	1-52
TRAFFIC SIGNALS.....	6-117
TRAFFIC SIGNALS MATERIAL	7-63
TRANSPLANTING SHRUBS, HEDGES, AND TREES	6-76
Traveled Way.....	1-20

U

Unacceptable Materials.....	1-76
Unacceptable Work.....	1-87, 4-29
Unauthorized Work.....	1-20, 1-88
Unbalanced Bids	1-29
Uncontrollable Events.....	1-20, 1-35
Under-Bridge Lighting.....	6-106
Underdrain Backfill Material	7-20
Underdrain Construction	6-18
Underdrain Outlets	6-19
Underdrain Type C.....	6-18
Underdrain, Type B.....	6-18
UNDERDRAINS	6-17
Uninspected Work.....	1-21, 1-88
Unit Price	1-21
Unpainted Steel	5-68
Unsafe Conditions	1-50
UNTREATED AGGREGATE SURFACE COURSE	4-33
Utilities Within Right-of-Way.....	1-43
Utility Companies.....	1-21
Utility Coordination	1-43
Utility Facilities.....	1-21

V

Index topics in all caps denotes the head of a section.

Value Engineering	1-113
Value Engineering Change Proposal	1-21
Vehicular and Pedestrian Traffic Separated	5-111
Vehicular Loop Detectors	7-66
Vehicular Signal Indications	7-63
Vertical Clearance	6-124
Vertical Stone Curb	6-36
Vibrating	5-29
Vibratory Hammers	5-5
Voids and Inserts	5-168
Volume	1-98
VOLUMETRIC DESIGN CRITERIA	4-3

W

Wage Rates and Labor Laws	1-37
Warm Mix Technology	4-3
Warning Lights	6-153
Warranty Provisions	1-88
Waste Areas	2-20
Water Pollution Control Requirements	6-163
Water Reducing Chemical Admixtures	7-4
WATER SERVICE SUPPLY LINES	6-79
WATERPROOFING MEMBRANE	5-99
Waterstops	7-4
Weather Limitations	3-6, 3-10, 3-19, 3-26
Welded Fabrication	5-72
Welding	5-71
Welding Requirements	5-71
WET CAST SMALL LANDSCAPE BLOCK WALL	6-183
Wetland and Waterbody Impacts	1-61
Wetlands	1-21
Winter Construction of Embankments	2-25
Winter Suspensions	1-21, 1-92
Wiring	6-124
Withdrawal of Bids	1-26
Wooden Steps	6-116
Work	1-21
Work Order	1-22
Work to Proceed Despite Issue or Dispute	1-125
Workers' Compensation	1-122
Working Day	1-21
Working Drawings	1-22
Woven Wire or Barbed Wire Fencing	6-28

Z

Zinc - Coated (Galvanized) Corrugated Steel Pipe	7-27
--	------

Index topics in all caps denotes the head of a section.

Zinc Coating.....	5-57
ZINC RICH COATING SYSTEM	5-90