

# Index

---

## A

Abbreviations .....	3-1.1
AC .....	See Asphalt Concrete
Acceptance of contract .....	3-7.12
Acceptance of materials .....	6-2.1
Acceptance records .....	6-1.4
Acceptance tests .....	6-1.2
Access to the work .....	3-5.3
Additives, chemical, water .....	4-17.1
Adhesive .....	4-95.1
Adjustment in compensation .....	3-9.6, 5-3.6
Adjustment of overhead costs .....	3-9.15
Administration .....	1-0.1
Aerially Deposited Lead .....	7-1.20
Aggregate bases .....	4-26.1
Aggregate subbases .....	4-25.1
Air entrainment .....	4-90.11
Air pollution control .....	3-7.2, 7-1.13
Alternative equipment .....	3-5.4
Apprentices .....	8-1.7
Approach slabs .....	4-51.1
Arbitration .....	5-4.25
Asbestos sheet packing .....	6-1.25, 6-2.8
Asphalt .....	
membrane waterproofing .....	4-54.1
mopping .....	6-1.26
plank .....	6-1.25
Asphalt binder .....	4-39.1
Asphalt concrete .....	4-39.1, 6-1.16
Asphalt rubber latex joint filler .....	6-2.6
Asphalt treated permeable base .....	4-29.2, 6-1.21
Asphaltic emulsions .....	4-94.1
Asphalts .....	4-92.1
Audits .....	5-4.23
Authority of engineer .....	3-5.1
Authorized representative .....	3-5.1
Automotive .....	1-4.2
Award and execution of contract .....	3-3.1

## A

## B

Backflow preventers, irrigation systems .....	4-20.15
Bars, raised (precast) .....	6-1.27
Barbed wire .....	4-80.1, 6-1.25, 6-2.8
Barricades .....	4-12.2
Barriers .....	4-83.1
Barriers, railings and .....	4-83.1

## B

# Index

---

# C

Basement soil .....	6-1.23
Bases	
aggregate .....	4-26.1
asphalt treated permeable .....	4-29.2, 6-1.21
cement treated .....	4-27.1, 6-1.20
cement treated permeable .....	4-29.2, 6-1.21
lean concrete .....	4-28.1, 6-1.18
Bearing devices, structures .....	4-51.3
Beginning of work .....	3-8.8
Bid openings .....	3-2.1
Bids .....	3-2.1
Bitumen ratio .....	4-37.6
Bituminous adhesive, pavement markers .....	4-85.1
Bituminous seals .....	4-37.1, 6-1.24
Blasting .....	4-19.2
Board of Review .....	5-4.15
Board of Review Report .....	5-4.29
Bolted connections .....	4-56.2
Borrow	
excavation .....	4-19.13
imported .....	4-19.9
Brick .....	6-1.26, 6-2.8
Bridge removal .....	4-15.2
Bridge deck finishing .....	4-42.2
Bridge railing .....	4-83.1
Budgeting .....	1-3.3
Buy America requirements .....	3-6.2
C	
Cable railing .....	4-83.4
Calibration program for equipment .....	6-3.1
California Manual on Uniform Test Method .....	1-3.4, 2-2.1
California test methods .....	6-3.3
California test number:	
109 .....	6-3.6, 3-9.3
110 .....	6-3.3
115 .....	6-3.2
121 .....	6-3.6
202 .....	6-3.2
223 .....	4-90.10
226 .....	4-20.3
231 .....	6-3.6
312 .....	6-3.3, 6-1.20
338 .....	4-27.2, 6-3.3, 6-1.20
339 .....	4-37.3



375 .....	6-1.17
504 .....	6-3.2, 4-90.13
518 .....	6-3.4, 4-72.3
523 .....	4-40.4
526 .....	6-3.3, 4-42.2, 4-40.8
California test number: ( <i>continued</i> )	
529 .....	4-90.14
533 .....	6-3.4
540 .....	6-3.4
541 .....	4-41.2
Carpobrotus cuttings .....	4-20.8
Cash expenditure voucher .....	1-5.2
Cast-in-place	
concrete pipe .....	4-63.1
concrete .....	4-50.1
Cement mortar .....	4-65.2
Cement treated	
permeable base .....	4-29.2
permeable material .....	4-68.2, 4-29.1
Cement treated bases .....	4-27.1
Certification of environmental compliance .....	7-1.22
Certification of samplers and testers .....	6-1.3
Chain link fence .....	4-80.1
Chain link railing .....	4-83.4
Changeable message signs, portable .....	4-12.3
Channelizers .....	4-12.2
Character of workers .....	3-5.6
Claims .....	5-4.3
payments .....	5-4.20
resolution process .....	5-4.13
Cleaning up, final .....	3-4.1
Clearing and grubbing .....	4-16.1
Coating tests .....	6-1.2
Compliance, Certificates of .....	3-6.2
Compressive strength samples & tests .....	6-3.4
Concrete	
compressive strength .....	6-3.4
curbs and sidewalks .....	4-73.1
pavement, portland cement .....	4-40.1
railing .....	4-83.4
removal .....	4-15.2
retaining walls .....	4-51.1, 6-1.11
structures .....	4-51.1
Concrete barriers .....	4-83.4
Concrete structures .....	4-51.1
Cones, traffic .....	4-12.3

# Index

---

Construction area signs .....	4-12.2
Construction area traffic control devices .....	4-12.1
Contract acceptance .....	See Acceptance of contract
Contract change order .....	5-3.1
Contract change order memorandum .....	5-3.17
Contract change order category code .....	5-3.18
Contract change order requirements for FHWA .....	5-3.26
Control	
of materials .....	3-6.1
of work .....	3-5.1
Controlling operation .....	3-8.10
Copeland Act .....	8-1.20
Corrugated metal pipe .....	4-66.1
Cost reduction incentive .....	3-5.7
COZEEP .....	2-2.11
Critical path method .....	3-8.10
CTB .....	4-27.1
Culverts, concrete .....	4-62.1
Curb ramps (wheelchair ramps) .....	4-73.1
Curbs and sidewalks .....	4-73.1
Curing compound .....	6-2.9
<b>D</b>	
Daily extra work .....	5-1.25
Damage, responsibility for .....	3-7.4
Damages, liquidated .....	3-8.26
Dampproofing .....	4-54.1
Davis Bacon Act .....	8-1.21
DBE .....	3-8.1, 8-3.1
Decreased quantities, increased and .....	3-4.2
Defective materials .....	3-6.2
Delays, right of way .....	3-8.35
Delineation .....	2-2.9
Delineators, markers .....	4-82.1
Details, shop .....	4-56.1
Detours .....	3-4.5
Differing site conditions .....	3-5.4
Disadvantaged business enterprise(s) (DBE) .....	8-3.1
Disposal of material outside the highway right-of-way .....	3-7.10
Disposal, Staging and Borrow Sites (DSB) .....	7-1.2
Dispute Review Board (DRB) .....	5-4.8
Disputes .....	5-4.1
Drain hole .....	4-86.7
Drainage inlets .....	4-51.1
Drainage pumping equipment .....	4-74.1
Drains	
horizontal .....	4-68.1



# Index

---

overside .....	4-69.1
subsurface .....	4-68.1
Dry sieve analysis .....	6-3.3
Dump truck rental .....	3-9.11
Dust control .....	4-10.1
Dust palliative .....	4-18.1
DVBE .....	8-3.1

## E

---

Earthwork .....	4-19.1
slipouts and slides .....	4-19.7
slope rounding .....	4-19.8
slopes, embankment .....	4-19.12
local borrow .....	4-19.9
Edge drains .....	4-68.1
Electrical .....	4-86.1
Eliminated items .....	3-4.3
Emergency contract administration .....	5-5.1
Employee complaints .....	8-2.2
Emulsions, asphaltic .....	4-94.1
Engineering fabrics .....	4-88.1
Entrained air .....	4-90.11
Environmental Commitments Record .....	7-1.1
Environmental Compliance Certification .....	7-1.22
Environmental Hazards and Safety Procedures .....	7-1.16
Environmental Quality Act .....	7-1.2
Epoxy .....	4-95.1
Equal employment opportunity .....	8-2.1
Erosion control .....	4-20.1
Erosion control and highway planting .....	4-20.1
Excavation .....	4-19.1
Execution of contract .....	3-3.1
Execution of contract, award and .....	3-3.1
Expansion joint armor .....	4-51.3
Extra Work .....	5-3.5

## F

---

Fabrication, out of state .....	3-6.3
Facilities, existing highway .....	4-15.1
Fair Labor Standards Act .....	3-7.1
False Information Act .....	8-1.21
Falsework .....	3-7.2, 4-51.1
lighting .....	4-86.9
Fences .....	4-80.1
Field	
Inspection .....	6-3.1
Laboratory .....	6-3.1



# Index

---

Office .....	1-4.1
Testing Equipment .....	6-3.1
Filter fabric .....	4-88.1
Final cleaning up .....	3-4.1
Finishing bridge decks .....	4-42.2
Finishing roadway .....	4-22.1
Flagging .....	4-12.1
Flashing arrow signs .....	4-12.2
Flashing beacons, portable .....	4-12.2
Fog seal coat .....	4-39.9
Force account payment .....	3-9.6,5-3.1
Foreign materials .....	3-6.2
Form	
CEM-0101, Resident Engineer's Report of Assignment .....	5-1.1,A-1.1
CEM-0501, Relief from Maintenance .....	5-1.2,A-1.2
CEM-0601, Construction Safety Report .....	5-1.2,A-1.3
CEM-0602, Project Safety Program Statement .....	5-1.2,A-1.4
CEM-0603, Major Construction Incident Notification .....	5-1.2,A-1.5
CEM-1101, Documents Bond of State Highway Oversight Projects .....	5-1.2,A-1.7
CEM-1201, Subcontracting Request .....	5-1.2,A-1.9
CEM-1202, Contractor Action Request-Change of Name/Address-Assignment of Contract Monies .....	5-1.2,A-1.9
CEM-1203, Contractor Action Request-Assignment of Contract Performance .	5-1.2,A-1.9
CEM-2001, National Pollution Discharge Elimination System	
Annual Certification .....	5-1.2,A-1.11
CEM-2002, Notification of Construction (NOC) .....	5-1.2,A-1.13
CEM-2003, Notification of Completion of Construction (NCC) .....	5-1.3,A-1.17
CEM-2004, Notification of Construction (Desert Areas) .....	5-1.3,A-1.17
CEM-2101, COZEEP Daily Report .....	5-1.3,A-1.21
CEM-2102, COZEEP/MAZEEP Task Order .....	5-1.3,A-1.23
CEM-2103, COZEEP/MAZEEP Cancellation Form .....	5-1.3,A-1.25
CEM-2401, Substitution Report for Disadvantaged Business Enterprise/Disabled Veteran Business Enterprise .....	5-1.3,A-1.27
CEM-2402(F), Final Report - Utilization of Disadvantaged Business Enterprises (DBE), First-Tier Subcontractors	
(Federally Funded Projects) .....	5-1.3,A-1.29
CEM-2402(S), Final Report - Utilization of Disabled Veteran Business Enterprises (DVBE) State Funded Projects .....	5-1.4,A-1.31
CEM-2403(F), Disadvantaged Business Enterprises (DBE) Certification	
Status Change .....	5-1.4,A-1.33
CEM-2404(F), Monthly DBE Trucking Verification .....	5-1.4,A-1.35
CEM-2501, Fringe Benefit Statement .....	5-1.4,A-1.37
CEM-2502, Contractor/Subcontractor Payroll .....	5-1.4,A-1.38
CEM-2503, Statement of Compliance .....	5-1.4,A-1.39
CEM-2504, Employee Interview: Labor Compliance/EEO .....	5-1.4,A-1.41
CEM-2504 (Spanish), Entrevista de Empleado: Labor Compliance/EEO .....	5-1.4,A-1.43
CEM-2505, Owner - Operator Listing Statement of Compliance .....	5-1.5,A-1.45



# Index

---

## Form (*Continued*)

CEM-2506, Labor Compliance – Wage Violation .....	5-1.5,A-1.47
CEM-2507, Labor Violation: Case Summary .....	5-1.5,A-1.49
CEM-2508, Contractor’s Payroll Source Document Review .....	5-1.5,A-1.51
CEM-2509, Checklist – Source Document Review .....	5-1.5,A-1.53
CEM-2510, Truck Owner-Operator Certification of Ownership .....	5-1.5,A-1.54
CEM-2601, Construction Progress Chart .....	5-1.5,A-1.56
CEM-2701, Weekly Statement of Working Days .....	5-1.5,A-1.57
CEM-2702, Overrun in Contract Time .....	5-1.5,A-1.59
CEM-3101, Notice of Materials to be Used .....	5-1.5,A-1.61
CEM-3501, AC Production/Placement Checklist .....	5-1.6,A-1.63
CEM-3701, Test Result Summary .....	5-1.6,A-1.65
CEM-3702, Relative Compaction Summary .....	5-1.6,A-1.66
CEM-4101, Materials Release Summary .....	5-1.6,A-1.67
CEM-4102, Material Inspected and Released on Job .....	5-1.6,A-1.68
CEM-4202, Material Plant Safety Checklist .....	5-1.6,A-1.61
CEM-4204, California Test 109 Sticker .....	5-1.6
CEM-4401, Solid Waste Disposal and Recycling Report .....	5-1.6,A-1.70
CEM-4501, Resident Engineer’s Daily Report/Assistant Resident Engineer’s Daily Report .....	5-1.6,A-1.72
CEM-4601, Assistant Resident Engineer’s Daily Report .....	5-1.6,A-1.73
CEM-4701, Drainage System Summary .....	5-1.7 A-1.74
CEM-4801, Quantity Calculations .....	5-1.7,A-1.76
CEM-4900, Contract Change Order .....	5-1.7,A-1.77
CEM-4901, Contract Change Order Input .....	5-1.7,A-1.79
CEM-4902, Extra Work Bill (Short) .....	5-1.7,A-1.81
CEM 4902A, Extra Work Bill - Title Page .....	5-1.7,A-1.83
CEM-4902B, Extra Work Bill - Labor Charges .....	5-1.7,A-1.85
CEM-4902C, Extra Work Bill - Equipment Charges .....	5-1.8,A-1.87
CEM-4902D, Extra Work Bill - Material Charges .....	5-1.8,A-1.89
CEM-4903, Contract Change Order Memorandum .....	5-1.8,A-1.91
CEM-5101, Request for Payment for Materials on Hand .....	5-1.8,A-1.93
CEM-6002, Contract Administration System (CAS) – Report Requests .....	5-1.8,A-1.94
CEM-6003, Progress Pay - Estimate Project Initiation or Update .....	5-1.8,A-1.95
CEM-6004, Contract Transactions Input .....	5-1.8,A-1.96
CEM-6101, Project Record - Estimate Request .....	5-1.8,A-1.99
CEM-6201, Notice of Potential Claim .....	5-1.9,A-1.100
CEM-6201A, Initial Notice of Potential Claim .....	5-1.9,A-1.101
CEM-6201B, Supplemental Notice of Potential Claim .....	5-1.9,A-1.103
CEM-6201C, Full and Final Documentation of Potential Claim .....	5-1.9,A-1.105
CEM-6202, Disputes Review Board (DRB) Establishment .....	5-1.9,A-1.107
CEM-6203, Disputes Review Board (DRB) Update Report .....	5-1.9,A-1.109
CEM-6204, Disputes Review Board (DRB) Issue Report .....	5-1.9,A-1.111
CEM-6205, Disputes Review Board (DRB) Completion Report .....	5-1.9,A-1.113
CEM-6301, Contract Acceptance .....	5-1.10,A-1.115
CEM-9001, Construction Manual Proposed Change .....	5-1.10,A-1.117

# Index

---

## Office of Materials Engineering and Testing Services Forms

TL-0028, Notice of Materials to be Inspected .....	5-1.10
TL-0029, Report of Inspection of Material .....	5-1.10
TL-0101, Sample Identification Card .....	5-1.10, A-1.118
TL-0502, Field Sample of Portland Cement Concrete Sample Card .....	5-1.10, A-1.119
MR-0518, Job Cement Samples Record .....	5-1.10, A-1.120
TL-0608, Notice of Materials to be Furnished .....	5-1.10
TL-0624, Inspection Release Tag .....	5-1.11
TL-0649, Inspector's Report of Material on Hand .....	5-1.11
TL-3096, Pavement Core Record .....	5-1.11
TL-6037, Fabrication Progress Report .....	5-1.11

## Other State Forms

DAS-1, Apprentice Agreement .....	5-1.11
H-ESP-16, Request for Construction Staking .....	5-1.11
LA-16, Product, Material, or Method Report .....	5-1.11, A-1.121
LA-17, Report of Chemical Spray Operations .....	5-1.11, A-1.122
TR-0019, Notice of Change in Clearance or Bridge Weight Rating .....	5-1.12, A-1.123
TR-0020, Notice of Change in Vertical or Horizontal Clearance .....	5-1.12, A-1.124
TR-0029, Notice of Change in Clearance or Bridge Weight Rating .....	5-1.12, A-1.125

## Federal Forms

FHWA-47 Statement of Materials and Labor used by Contractors on Highway Construction involving Federal Funds .....	5-1.12
FHWA-1022, United States Department of Transportation Notice .....	5-1.12
FHWA-1391 Federal-Aid Highway Construction Contractors Annual EEO Report .....	5-1.12
DOL SF-308 Request for Wage Determination and Response to Request .....	5-1.13
Equal Employment Opportunity is the Law Poster .....	5-1.13
FHWA-1495, Wage Rate Information Federal-Aid Highway Project .....	5-1.13
Forms used for contract administration .....	5-1.1
Full Oversight Projects .....	5-0.9,5-3.26,5-4.12
Funds/Funding .....	5-2.1,9-1.1

## G

---

Geo-synthetics .....	6-1.26
Glass beads .....	4-84.1
Grading plane .....	3-5.3
Grates, frames and miscellaneous metal .....	4-75.1
Groove and grind pavement .....	4-42.1
Guard railing, metal beam .....	4-83.1
Guide posts .....	6-1.2

## H

---

Handrailing .....	4-83.4
Hazardous Spills .....	7-1.20
Hazardous Waste .....	7-1.16
Highway facilities, existing .....	4-15.1



# Index

---

Highway planting .....	4-20.1
Hook details .....	4-52.1
Horizontal drains .....	4-68.1
Hydraulic jacks .....	6-3.3
Hydroseeding .....	4-20.2

## I

Imported borrow .....	4-19.9, 6-1.23
Increased and decreased quantities .....	3-4.2
Indemnification and insurance .....	3-7.8
Independent assurance sampling and testing .....	6-1.3
Items	
eliminated .....	3-4.3
final pay .....	3-9.6

## J

Jacking	
corrugated steel pipe .....	4-66.2
pavement .....	4-41.1
reinforced concrete pipe .....	4-65.2
Job categories, alphabetical list of .....	5-1.32
Job categories, numerical list of .....	5-1.30
Joint filler expansion .....	6-1.26
Joint sealing compounds .....	6-1.26, 6-2.6

## L

Labor surcharge .....	3-9.8
Labor Code .....	8-1.1, 3-7.1
Labor compliance .....	8-1.1
Laws to be observed .....	3-7.1
Lean concrete base .....	4-28.1
Legal relations and responsibility .....	3-7.1
Licensing laws, contractor .....	3-7.1
Lime stabilization .....	4-24.1
Lines and grades .....	3-5.3
Liquid asphalt .....	4-93.1, 6-1.4
Liquidated Damages .....	3-8.26
Load limitations .....	3-7.1
Local	
Funding .....	9-1.1
Roads .....	3-4.5
Local borrow .....	4-19.9
Local material .....	3-6.4
Log of test borings .....	3-5.4

# Index

---

## M

### M

---

Maintenance and responsibility, relief from .....	3-7.10
Maintenance Within Construction Limits .....	3-7.6
Manholes .....	4-70.1
Manual on Uniform Traffic Control Devices .....	(See California)
Markers	
and delineators .....	4-82.1
object .....	4-82.1
pavement .....	4-85.1
Median barriers .....	4-83.3
Mesh-reinforcing .....	6-1.27
Metal beam guard railing .....	4-83.1
Metal railing .....	4-83.2
Methods of Payment .....	5-3.5
Mineral admixtures .....	4-90.14
Minor B projects .....	3-2.1
Minor concrete .....	4-90.5
Minor structures .....	4-51.2
Miscellaneous	
iron and steel .....	4-75.1
metal .....	4-75.1
Miscellaneous facilities .....	4-70.1
Mix design .....	4-90.7
Mobilization .....	4-11.1
Monuments .....	4-81.1

### N

---

Negative Estimates .....	3-9.24
Night work .....	2-2.8, 7-1.8
Noise Control .....	7-1.11
Non-highway facilities, utility .....	3-8.36
Notices, stop .....	3-9.15
Nuclear Gauges .....	1-4.2, 6-3.6

## O

### O

---

Object markers .....	4-82.1
Obliterating roads and detours .....	4-15.1
Office Engineer, Office of .....	3-3.1
Operation, controlling .....	3-8.10, 5-0.5
Order of work .....	3-5.2, 3-7.5
Overhead claims .....	5-4.21
Overhead costs, adjustment of .....	3-9.6, 5-3.6, 5-3.14
Overhead sign structures .....	4-56.2
Overside drains .....	4-69.1

# P

Oversight .....	9-2.1
Owner-operated equipment .....	3-9.11, 5-5.6, 8-1.11
Owner-operators .....	5-1.4, 8-1.10, 8-1.11, 8-1.14
<hr/>	
<b>P</b>	
Palliative, dust .....	4-18.1
Partial payments .....	3-9.16
Pavement	
asphalt concrete .....	4-39.1
joints, longitudinal .....	4-39.9
joints, transverse .....	4-39.9
grind .....	4-42.1
groove .....	4-42.1
jacking .....	4-41.1
portland cement concrete .....	4-40.1
subsealing .....	4-41.1
Pavement markers .....	4-85.1
Pavement recesses .....	4-85.2
Pavement reinforcing fabric .....	4-88.1
Payment	
final .....	3-9.24
force account .....	3-9.6
measurement and .....	3-9.1
offset .....	3-9.24
Payroll records .....	8-1.5
PCC pavement (see also portland cement concrete)	
joints, contact .....	4-40.8
joints, weakened plane .....	4-40.7
slip-form .....	4-40.2
thickness deficiency .....	4-40.10
tie bars for .....	4-40.3
water supply for .....	4-90.5
weakened plane joints .....	4-40.7
Penetration treatment .....	6-1.24
Perforated pipe .....	4-68.1
Permeable base	
asphalt treated .....	4-29.2
cement treated .....	4-29.2
Permits .....	7-1.13
encroachment .....	3-8.9, 3-8.36
list of potential permits .....	7-1.12
Pervious backfill material .....	4-19.11
Pesticides .....	4-20.6
Pigmented curing compound .....	6-1.10
Piling .....	4-49.1

# Index

---

Pipe	
alternative pipe and pipe arch culverts .....	4-62.1
cast-in-place concrete .....	4-63.1
corrugated metal .....	4-66.1
corrugated metal, aluminum .....	4-66.1
corrugated metal, steel .....	4-66.1
plastic .....	4-64.1
reinforced concrete .....	4-65.1
structural metal plate .....	4-67.1
Plans	
working drawings .....	3-5.1
intent of .....	3-4.1
Plant establishment work .....	4-20.12
Plant pumping equipment .....	4-74.1
Plant stakes, highway planting .....	4-20.10
Plants	
highway planting and erosion control .....	4-20.1
watering .....	4-20.11
Plastic pipe .....	4-64.1, 4-20.1
Pollution control	
air .....	7-1.6
storm water .....	7-1.6
water .....	7-1.6
Polysulfide .....	6-1.26
Polyurethane .....	6-1.26
Portable	
changeable message signs .....	4-12.3
delineators .....	4-12.2
Portland cement concrete .....	4-90.1
admixtures .....	4-90.3, 6-1.9
compressive strength .....	6-3.4
Portland cement concrete pavement .....	4-40.1
Potential claim, notice of .....	5-4.2, 5-4.6, 5-4.14, 5-4.22
Precast raised traffic bars .....	6-2.8
Preconstruction Conference .....	5-0.3
Preliminary Construction Claim Findings .....	5-4.28
Preliminary tests .....	6-1.1, 5-1.19
Preparing planting areas .....	4-20.9
Preservation of property .....	3-7.8
Preservative treatment of lumber, timber and piling .....	4-58.1
Prestressing concrete .....	4-50.1
Prevailing wage .....	8-1.16
Priority tests .....	6-1.2
Procedure and protest .....	3-4.2
Profile index .....	4-42.2
Profilograph .....	6-3.3

Progress	
calculating .....	3-9.23
of work .....	3-8.26
prosecution .....	3-8.1
schedule .....	3-8.10
Progress pay estimate project initiation of update .....	3-8.9, 5-1.59, 5-1.69
Project certification .....	6-1.5
Project records .....	5-1.1
categories, alphabetical list of .....	5-1.32
categories, numerical list of .....	5-1.30
Property, preservation .....	3-7.8
Proposal requirements and conditions .....	3-2.1
Proposed final estimate .....	3-9.29
Prosecution and progress .....	3-8.1
Public access to project records .....	5-1.69
Public convenience .....	3-7.3
Public interest .....	3-6.6
Public relations .....	1-2.1
Pull boxes .....	4-86.7

## Q

---

Quality Assurance Program .....	3-9.3, 6-1.3, 9-1.3
---------------------------------	---------------------

Q  
R

## R

---

Railings (Type K), temporary .....	4-12.2, 4-83.1
Railings and barriers .....	4-83.1
Reinforced concrete pipe .....	4-65.1
Reinforcing bars .....	4-52.1
Reinforcing fabric .....	4-88.1
Relative compaction .....	6-3.6
Relief from maintenance and responsibility .....	3-7.10
Remote control valves .....	4-20.15
Removal of rejected and unauthorized work .....	3-5.3
Removal, bridge .....	4-15.2
Rental	
dump truck .....	3-9.11
equipment .....	3-9.9
Responsibility for damage .....	3-7.4
Retaining walls, concrete .....	4-51.1, 6-1.11
Retention .....	3-9.22
Retroreflective pavement markers .....	4-85.1
Right-of-way delays .....	3-8.35
Rights in land and improvements .....	3-7.12

# Index

---

# S

Roadside signs .....	4-56.1
Roadway excavation .....	4-19.1
Rock slope protection .....	4-72.1
Rock slope protection fabric .....	4-88.1
Root protectors, highway planting .....	4-20.5
Rubber .....	6-1.2
<b>S</b>	
Safety and health provisions .....	2-1.1
Sample .....	6-1.1
Sampling & testing .....	6-1.1
Scale sheets .....	3-9.4
Scales .....	6-3.2
Scales and balances .....	6-3.2
Scope of work .....	3-4.1
Screens and sieves .....	6-3.2
Seal coats .....	4-37.1
Seed .....	4-20.2
Seed Sampling .....	4-20.5
Semifinal estimate .....	3-9.33
Shop details .....	4-56.1
Shoring .....	4-19.1
Shortage of materials .....	3-8.28
Shotcrete .....	4-53.1
Sidehill embankment .....	4-19.5
Sidewalks .....	4-73.1
Sieve analysis .....	6-3.2
Sign structures .....	4-56.1
Signals, lighting and electrical systems .....	4-86.1
Signs .....	4-56.1
Silos, asphalt concrete .....	4-39.8
Slides and slipouts .....	4-19.7
Slipouts and slides .....	4-19.7
Slope	
embankment .....	4-19.12
paving .....	4-72.4
protection .....	4-72.1
rounding .....	4-19.8
Slotted pipe, edge drains .....	4-68.4
Slurry seal .....	4-37.5, 6-1.24
Surface Mining and Reclamation Act of 1975 (SMARA) .....	7-1.4
Soil, basement .....	6-1.23
Solid Waste Disposal & Recycling Report .....	7-1.22
Sound control requirements .....	3-7.3
Source documents .....	3-9.2
Special forces .....	3-9.13
Special services .....	3-9.13

# Index

---

Speed zones .....	2-2.7
Stakes and marks .....	3-5.3
State Contract Act .....	1-1.5
State-furnished materials .....	3-6.1
State Right of Way, contractor's use .....	7-1.5
Stop notices .....	3-9.15
Straw, erosion control .....	4-20.2
Striping .....	4-84.1
Structural metal plate pipe, arches and pipe arches .....	4-67.1
Structural steel .....	4-51.1
Structure backfill .....	4-19.11, 6-1.25
Structure excavation .....	4-19.3
Structure excavation and backfill .....	4-19.3
Styrofoam filler .....	6-2.8
Subbases, aggregate .....	4-25.1, 6-1.22
Subcontracting .....	3-8.1
Subsealing pavement .....	4-41.1
Subsistence and travel allowance .....	3-9.8, 8-1.6
Substitution request-DBE/DVBE .....	8-3.7
Subsurface drains .....	4-68.1
Superintendence .....	3-5.2
Surcharge, labor .....	3-9.8
Survey monuments .....	4-81.1
Suspension of work, temporary .....	3-8.10

## T

---

Tack Coat .....	4-39.4, 4-92.1
Tapered notch wedge .....	4-39.1, 4-39.9
Temporary railing (Type K) .....	4-12.2
Temporary suspension of work .....	3-8.10
Termination of contract .....	3-8.38
Termination of control .....	3-8.31
Test borings, log of .....	3-5.4
Test/testing .....	6-3.1
Test cylinders .....	6-3.4
Thermoplastic traffic stripes and pavement markings .....	4-84.1
Thrie beam barrier .....	4-83.2
Tile .....	6-2.8
Timber piles .....	3-8.29
Timber structures .....	4-57.1
Time of completion .....	3-8.11
Traffic cones .....	4-12.3
Traffic control devices, construction area .....	4-12.1
Training .....	1-3.1
Treated permeable bases .....	4-29.1
Trenches .....	4-19.5
Truck rental, dump .....	3-9.11



# Index

---

## U

---

Underdrains .....	4-68.1
Unsuitable material	
earthwork .....	4-19.6
removing .....	4-19.6
Use of materials found on the work .....	3-4.6
Use of pesticides .....	4-20.6
Utility and non-highway facilities .....	3-8.36

## V

---

Vehicle Code .....	3-7.1
Vehicle detectors .....	4-86.9

## W

---

Wage, prevailing .....	8-1.16
Water .....	4-17.1
Water pollution control .....	7-1.6
Water pollution control plan .....	7-1.10
Water supply .....	4-17.1
Waterproofing .....	4-54.1, 6-1.27
Waterproofing, asphalt membrane .....	4-54.1
Waterstops, concrete structures .....	4-51.4
Weep holes	
concrete slope protection .....	4-72.4
concrete structures .....	4-51.4
Weigh sheets .....	4-20.3
Weights and measures .....	3-9.2
Welded steel pipe .....	4-70.1
Welded wire fabric .....	4-52.1, 6-2.8
Wheelchair ramps	
curb ramps, concrete .....	4-73.1
Windrows .....	4-39.9
Wire mesh, fences .....	4-80.1
Wire mesh reinforcing .....	6-1.27
Wiring .....	4-20.17
Working drawings .....	3-5.1