



Watsonville
CALIFORNIA

**City of Watsonville
Department of Public Works**

**QUALITY ASSURANCE PROGRAM
(QAP)**

APPROVED BY:

Date:

6/22/26

Danielle M. Green

Director of Public Works & Utilities



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[This document supports the Caltrans Local Assistance Procedures Manual (LAPM) Section 16.11. In case of conflicts, the contract documents and the agency-state agreements prevail.]

The purpose of the Quality Assurance Program (QAP) is to provide assurance that the materials incorporated into each state and federally funded construction project conform to the contract specifications, as well as to 23 CFR 637.

- The QAP is updated every five years minimum.
- The QAP is updated if changes are made, such as to the test methods or to the testing sampling and frequencies.

I. Definition of Terms

Acceptance Testing	Testing of project materials to determine compliance with the contract specification criteria.
Certificate of Compliance	A signed document from the material manufacturer committing that the delivered goods meet the contract specifications.
Independent Assurance Program (IAP)	A program that verifies that acceptance testing is being performed correctly by certified testers using accredited laboratories and calibrated equipment.
Materials Acceptance Program	Sampling, testing, inspection, and certification of project materials to determine compliance with the contract specifications.
Quality Assurance Program (QAP)	A program that will ensure materials and workmanship incorporated into the project conform to the contract specifications. The main elements of a QAP are the Material Acceptance Program and the Independent Assurance Sampling and Testing Program.
Source Inspection	Sampling, testing, and/or inspection of manufactured or prefabricated structural materials at a location other than the job site, generally at the manufactured location.

II. Materials Acceptance Program

Material incorporated into the work is accepted by one or more of the following methods, as specified in the contract specifications:

1. Field Sampling and Acceptance Testing
2. Manufacturer's Certificate of Compliance
3. Source Inspection and Testing
4. Visual Inspection

Field Sampling and Acceptance Testing

- Acceptance sampling and testing are performed by certified materials personnel.
- Acceptance testing is performed utilizing accredited materials laboratories and properly calibrated equipment.
- Certifications and accreditations are specific to the tests being performed.
- A materials testing results log is maintained for any test method performed more than once on a project.
- Test results for materials incorporated into the work are to be in compliance with the contract specifications.
- Actions taken regarding material with failing test results will be fully documented, including details documenting remove/replace, rework/re-test, and deduction/change order.
- Justification will be provided for any failing material allowed to remain in-place.

Acceptance Sampling and Testing Locations / Frequencies

- Sample and testing locations and frequencies are to be in accordance with the contract specifications.
- If not specified in the contract documents, sampling and testing locations / frequencies are shown in Attachment 1: Acceptance Sampling and Testing Frequencies.
- When sampling products such as Portland cement concrete, cement-treated base, hot mix asphalt, or similar materials, sampling is varied with respect to the time of the day, in so far as possible, in order to *avoid a predictable sampling routine*.

Acceptance Test Methods

- The test methods used are as specified in the contract documents. If not specified, testing is done with the California Tests (CT) Method.
- For a material specified to comply with a property shown in the following table, testing is performed utilizing the noted test method(s):

[If the Caltrans standard specifications are utilized in contracts, use the table below and delete the second table]

Test Property	Test Method
Relative Compaction	CT 231 & CT 216
Sand Equivalent	CT 217
Resistance (R-value)	CT 301
Grading (sieve analysis)	CT 202
Durability Index	CT 229
Cleanness Value	CT 227

Acceptance Materials Testing Laboratory

Acceptance testing will be performed by: *[check all that apply]*

- ☐ *[Local Public Agency (LPA)]* Materials Laboratory
- X Accredited Consultant Materials Laboratory
- ☐ Other _____ *[explain]*

The City of Watsonville certifies that the following is true:

- The materials laboratory is under the responsible management of a California Registered Engineer with experience in sampling, inspection, and testing of construction materials.
- The Engineer will certify the results of all tests performed by laboratory personnel under the Engineer's supervision.
- The Materials Laboratory is properly accredited.
- The Materials Laboratory testing personnel are appropriately certified.
- Testing equipment is properly calibrated.
- Materials Laboratories will comply with Section III. Independent Assurance Program (IAP) of this document.

Reporting Acceptance Test Results

- The laboratory reports test results to the Resident Engineer (RE) as soon as possible by email or telephone.
- Copies of the complete material test result reports, including data and calculation sheets, are provided to the RE in accordance with the following timetable:
[hours shown may be reduced to meet agency requirements]

If the material is sampled ...	and the test performed is ...	submit results to the RE within ...
at the material plant	Sieve Analysis or Sand Equivalent (SE) or Cleanness Value (CV)	24 hours
at the jobsite	Compaction and/or maximum density	24 hours
	Sieve Analysis or Sand Equivalent (SE) or Cleanness Value (CV)	72 hours
	R value or Asphalt extraction	96 hours

Acceptance Testing Summary Logs

The RE maintains a testing summary log for each test method performed on the project utilizing Attachment 2: Test Result Summary Log.

[The LPA may choose to use a different form for Attachment 2; however, the log must include the following information: Name and ID Number of the Test Method Performed; Date Tested; Name of Tester; Location; Approximate Quantity of Material Represented by the Test; Required Passing Result; Actual Test Result; Resolution of any Failing Results]

The logs are used by the RE to track that:

- Sampling is performed at the required frequencies.
- Acceptance tests are performed at the required frequencies.
- Tester certifications are current and on file.
- All failing tests have been mitigated and documented.

Manufacturer's Certificate of Compliance

- Various manufactured materials may be accepted for incorporation into the work without sampling or testing, based on the following:
 - Visual examination of material is performed
 - Supplier has furnished similar material with a history of having met specifications
 - Manufacturer certification that materials comply with contract specifications
 - The products, materials, or assemblies do not involve structural integrity or safety to the public

- Where required by the contract specifications, the contractor must submit a certificate of compliance and comply with Buy America certification requirements as applicable.
- Where required by the contract, the contractor must attach test data or other documents to the certificate of compliance.
- The RE may perform sampling and testing on such materials at any time.
- Certificates of compliance must:
 - Be submitted by the Contractor before the material is incorporated into the work;
 - Accompany the material to the job site.
 - Identify the lot (or heat) number for each lot delivered;
 - Include the contract number;
 - Include test data and other documents when required.
 - State that the material complies with the contract specifications; and
 - Be signed by the producer of the material.

List of Materials Accepted by Certificate of Compliance

- The City of Watsonville uses the *Caltrans 2024 Standard Specifications*
- In accordance with *Caltrans 2024 Standard Specifications* the materials listed in Attachment 3 may be accepted by Certificate of Compliance
- This list may be amended by the contract Special Provisions or Technical Provisions

Source Inspection and Testing

- Some manufactured or pre-fabricated structural materials will be inspected or tested prior to arrival at the jobsite, generally at the manufacturer's location (a.k.a. source inspected).
- Structural items categorized as "catastrophic consequences of failure" or "significant safety concern" may be source inspected. Materials that might be source inspected include: structural steel, precast pre-stressed concrete girders and pilings; RCP greater than 60", joint seals, bearing pads, lighting and signal poles, sign structures, electrical items.
- The RE may reject source inspected material at the job site if deemed not acceptable, including:
 - Material damage in shipment or installation;
 - Defective material (source inspection is usually a random sampling and may not have checked 100% of the material.)
- The following materials laboratories will be used to perform source inspection and testing. *[check all that apply]*

☐ *[Local Public Agency]* Laboratory

☒ Accredited Consultant Materials Laboratory

☐ Other _____ *[explain]*

Visual Inspection

- Relatively minor quantities of construction materials may be accepted without testing.
- The following 3 conditions must be met:
 1. Visual examination of the material is performed.
 2. The manufacturer or supplier has recently furnished similar materials found to be satisfactory using normal sampling and testing requirements.
 3. The manufacturer (or supplier in the case of HMA or concrete) provides certification that the material furnished complies with the contract specifications.

Approximate Quantities that May be Accepted by Visual Inspection

- Aggregates other than for use in Portland Cement Concrete, not to exceed:
 - 100 tons per day, nor
 - 500 tons per project
- Bituminous mixtures (example: HMA), not to exceed
 - 50 tons per day
 - If project total is less than 500 tons., sample at engineer's discretion
- Bituminous material (example: Liquid Asphalt), not to exceed:
 - 100 gallons per project

III. Independent Assurance Program (IAP)

- The IAP verifies that:
 - Sampling and testing procedures are being performed correctly
 - All acceptance testing performed on the project uses an accredited laboratory and certified testing personnel.
 - All testing equipment is in good condition and properly calibrated
- The IAP duties, including certification of testers and laboratory accreditation, are executed by: *[check all that apply]*
 - ☐ LPA designated independent assurance person
(this person must not perform any acceptance testing)
 - ☒ Caltrans
 - ☐ Consultant
(this consultant must be different from acceptance testing consultant)
- Independent assurance samples and tests are not to be used for determining compliance with contract requirements.

- Testing with only ASTM/AASHTO material testing will require the LPA hire a separate laboratory to perform independent assurance (see LAPM 16.11.2: Independent Assurance (IA) Program).

Laboratory Accreditation

- The acceptance testing materials laboratory must participate and comply with one or more of the following Correlation Testing Programs
 - AASHTO re:source (formerly AMRL)
 - Cement and Concrete Reference Laboratory (CCRL)
 - Caltrans Reference Samples Program (RSP)
- The Acceptance Testing Laboratory Accreditation occurs annually or per issuance agency.
- A current copy of the laboratory's accreditation certificate is kept in the project records.

Tester Certification

- Sampling and testing personnel are certified for a maximum of 5 years by one or more of the following Personnel Certification Programs: *[check all that apply]*
 - ☒ CT METS IA Representative (at JTCP or outside of JTCP for other test methods)
 - ☐ American Concrete Institute
 - ☐ National Institute for Certification in Engineering Technologies
 - ☐ LPA's designated and qualified independent assurance person (independent assurance person will not perform acceptance testing)
 - ☐ American Society for Testing and Materials
 - ☐ Other nationally recognized organization: _____
- A copy of each tester's current and applicable certifications is kept in the project files.

Equipment Calibration

Laboratory testing equipment will be:

- Capable of performing the tests required.
- Be in good working order.
- Be calibrated at least *once each year*, and *more frequently* if required by test method or manufacturer's recommendation.
- Be calibrated by impartial means using devices of accuracy traceable to the National Institute of Standards and Technology.
- Have a *decal* firmly affixed to each piece of equipment showing:

- Equipment Identification Number
- Calibration Date
- Calibration Expiration/Due
- Calibrator Name/Company Name

IV. Project QAP Records

Project records will have on file pertinent quality assurance documents which may include, but not limited to (see LAPM 16.3.1: Organization of Project Records for more details):

- Copy of Quality Assurance Plan
- Certificates of Proficiency
- Certificate of Accreditation for Testing Laboratory
- Notice of Materials to be Used
- Acceptance Testing Summary Logs and Test Results
- Certificates of Compliance (Buy America certification requirements as applicable; see LAPM)
- Source inspection records and reports
- Final Materials certification

All project records will be available in a single location for inspection by auditors and reviewers:

- At any time during the project
- For three years following the date of the final project voucher

V. Attachments

Attachment No. 1: Acceptance Sampling and Testing Frequencies

Sample provided at: <https://dot.ca.gov/-/media/dot-media/programs/local-assistance/documents/coe/sampling-and-testing-frequency-table.pdf>

Attachment No. 2: Test Results Summary Log

Sample provided at: <https://dot.ca.gov/-/media/dot-media/programs/local-assistance/documents/coe/acceptance-testing-results-summary-log.xlsx>

Attachment No. 3: List of Materials Accepted by Certificate of Compliance

Sampling and Testing Frequency Table
for projects OFF the SHS

Sample for Local Agency QAPs

Sampling and Testing Frequency Table
for projects OFF the SHS.

HOT MIX ASPHALT (HMA) / ASPHALT CONCRETE (AC)

Quality Characteristic	Test Method	Minimum Sampling and Testing Frequency	Location/Time of Sampling
Aggregate Gradation (Sieve)	CT 202	1 Per 1000 Tons or Part Thereof ; Minimum 1 per day during production/placement of at least 300 tons per day.	At Plant Per CT 125 (a)
Sand Equivalent	CT 217		
Asphalt Binder Content	CT 382		Loose Mix Behind Paver Per CT 125
In-Place Density and Relative Compaction (Nuclear)	Nuclear (b) CT 375 or ASTM D2950 (c)	1 Per 1000 Tons or Part Thereof ; Minimum 1 per day during production/placement of at least 300 tons per day. (b)	Random Locations Per CT 375 (c)
Theoretical Maximum Specific Gravity and Density (Rice)	CT 309	1 Per Day During Production/Placement of At Least 300 Tons Per Day	Loose Mix Behind Paver Per CT 125
HMA Moisture Content	CT 226 or CT 370		
Stabilometer Value (d)	CT 366		
Asphalt Binder	Sample per Section 92	Sample 1 min. per day for production over 300 tons per day; See (f) regarding testing.	At Plant Per CT 125
Smoothness	12-foot Straightedge	As necessary to confirm contract compliance.	Final Pavement Surface

(a) Exact tonnage of sample location to be determined by Random Sampling Plans

(b) Compaction determined by Nuclear Density Device. Core testing required if compaction fails the nuclear

test (c) Correlation between core densities and nuclear device required only if compaction fails the nuclear test

(d) Report the average of 3 tested briquettes from a single split source

(e) Use CT 309 to determine maximum theoretical density in lieu of CT 367 calculated maximum theoretical density

(f) No testing required unless warranted by concern ; sample and store until completion of project

SUBGRADE (DISTURBED BASEMENT SOIL) OR EMBANKMENT

Quality Characteristic	Test Method	Minimum Sampling and Testing Frequency	Location/Time of Sampling
Maximum Density and Relative Compaction	CT 216/CT 231	1 Min. Test per 5000 sq ft under vehicle traveled way and shoulder 1 Min. Test Per 300 linear foot under sidewalk	Random locations as determined by the Engineer in place after compaction.

AGGREGATE BASES AND SUBBASES, IMPORTED BORROW

Quality Characteristic	Test Method	Minimum Sampling and Testing Frequency	Location/Time of Sampling
Sieve Analysis	CT 202	1 Min. Test Per Material Source	Sample from site stockpile/plant prior to placement.
R-Value	CT 301		
Sand Equivalent	CT 217		
Maximum Density and Relative Compaction	CT 216/CT 231	1 Min. Test per 5000 sq ft	Random locations as determined by the Engineer in place after compaction.

STRUCTURE BACKFILL, SELECT BACKFILL

Quality Characteristic	Test Method	Minimum Sampling and Testing Frequency	Location/Time of Sampling
Sieve Analysis	CT 202	1 Min. Test Per Material Source	Sample from site stockpile/plant prior to placement
R-Value	CT 301		
Sand Equivalent	CT 217		
Maximum Density and Relative Compaction	CT 216/CT 231	1 Min. Test Per 2 Vertical Lifts of Placement	Random locations as determined by the Engineer in place after compaction.

PORTLAND CEMENT CONCRETE (PCC) - STRUCTURAL AND SIGNAL/LIGHTING FOUNDATIONS

COARSE AGGREGATE			
Quality Characteristic	Test Method	Minimum Sampling and Testing Frequency	Location/Time of Sampling
Sieve Analysis	CT 202	1 min. test per 500 cu yds and per each material source ; 1 min. test on smaller projects; If bridge, 1 min. set per separate pour per abutment/pier/deck.	Sample from site stockpile/plant prior to placement
Cleanness Value	CT 227		

FINE AGGREGATE			
Quality Characteristic	Test Method	Minimum Sampling and Testing Frequency	Location/Time of Sampling
Sieve Analysis	CT 202	1 min. test per 500 cu yds and per each material source ; 1 min. test on smaller projects; If bridge, 1 min. set per separate pour per abutment/pier/deck.	Sample from site stockpile/plant prior to placement
Sand Equivalent	CT 217		

WET MIX			
Quality Characteristic	Test Method	Minimum Sampling and Testing Frequency	Location/Time of Sampling
Slump/Penetration	CT 533	2 per day	Sample from truck/work site
Cylinders	CT 539/540	1 min. set of 3 per day; If bridge, 1 min. set per separate pour of abutment/pier/deck.	


Acceptance Testing Results Summary Log

Test Method Name: _____

Test Method Number: _____

Project Name: _____

Contract Number: _____

Test Number	Date Sampled	Name of Sampler or Tester		Production		Test Results			Remarks
		Tester Certification on file?		Location (Stations, depths, etc)	Production Quantity Represented	Required Result	Actual Result	Pass/Fail	Include action taken for any failing test result; note test number of any retest.
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									

Materials Requiring a Certificate of Compliance per Caltrans Standard Specifications

Caltrans 2024 Standard Specifications	Material	Additional Info and/or Attachments Required*
6-1.04 BUY AMERICA		
6-1.04B	Crumb rubber	COC
6-1.04C	Steel and iron materials	COC + cert. mill test reports
6-1.07B	Telecommunications and Video Surveillance Equipment	COC
11-2 WELDING QUALITY CONTROL		
11-2.03D	Welding	COC
11-3 WELDING FOR OVERHEAD SIGN STRUCTURES, STANDARDS, AND POLES		
11-3.303	Welding	COC
12-3 TEMPORARY TRAFFIC CONTROL DEVICES		
12-3.03A(3)	Plastic Traffic Drums	COC
12-3.20A(3)	Temporary Barrier System	COC
12-3.23A(3)	Impact Attenuator	COC
12-3.32A(3)	Portable CMS	COC
12-3.33A(2)	Portable Signal System	COC
13-2 WATER POLLUTION CONTROL PROGRAM		
13-9 TEMPORARY CONCRETE WASHOUTS		
13-9.01C	Fabric bags for gravel-filled bags	COC
	Plastic liner	COC
13-10 TEMPORARY LINEAR SEDIMENT BARRIERS		
13-10.01C	Fiber rolls	COC
	Silt fence fabrics	COC
	Sediment filter bags	COC
	Foam barriers	COC
	Fabric for gravel-filled bags	COC
	Compost Socks	COC
16-2.03 TEMPORARY HIGH-VISIBILITY FENCES		
16-2.03A(3)	High-visibility fabric	COC
18 DUST PALLIATIVES		
18-1.01C	Dust suppressant	COC
	Dust control binders	COC
	Fibers	COC
20 LANDSCAPE		
20-2 IRRIGATION		

* For those materials requiring additional information on or with the COC, see specification.

Caltrans 2024 Standard Specifications	Material	Additional Info and/or Attachments Required*
20-2.08A(3)	Polyethylene pipe	COC
	Plastic pipe supply line	COC
20-3 PLANTING		
20-3.01A(3)(c)	Sod	COC
	Soil amendment	COC
	Plant tubes	COC
20-5 LANDSCAPE ELEMENTS		
20-5.03A(1)(c)	Filter fabric	COC + product data
20-5.03D(1)(c)	Solidifying emulsion	COC + product data & samples
20-5.04A(3)	Wood mulch	COC + sample & authorization
21-2 EROSION CONTROL WORK		
21-2.01C(1)	Straw	COC
	Weed-free straw	COC + cert. of quarantine
	Fiber	COC
	RECP	COC
	Fasteners	COC
	Hydraulically applied erosion control materials	Submit records
21-2.01C(2)	Compost	Submit reports
21-2.01C(3)	Seed	Submit reports
21-2.01C(4)	Tackifier	COC + SDS + Reports
	Bonded fiber matrix	COC + SDS + Reports
21-2.01C(5)	Fiber Reinforced Matrix	COC + Manufacturer information
24 STABILIZED SOILS		
24-1.01C(1)	Stabilizing agent	COC + sample
24-3 CEMENT STABILIZED SOIL		
24-3.01C	Cement	COC + sample
30-4 FULL DEPTH RECYCLING - CEMENT		
30-4.01C(2)	Cement	COC
30-5 PARTIAL DEPTH RECYCLING		
30-5.01C(3)	Recycling agent	COC + SDS + test results
	Cement	COC + SDS
	Other Additives	COC + SDS

* For those materials requiring additional information on or with the COC, see specification.

Caltrans 2024 Standard Specifications	Material	Additional Info and/or Attachments Required*
36-2 BASE BOND BREAKER		
36-2.01C	Base bond breaker	COC
37 SEAL COATS		
37-1.01C	Asphalt binder	COC + test results
	Asphalt emulsion	COC + test results
37-2 CHIP SEALS		
37-2.04A(3)	Asphalt rubber binder ingredients	COC + test results+ Submittals
37-3 SLURRY SEALS AND MICRO-SURFACINGS		
37-3.01A(3)	Asphaltic emulsion	COC + samples & test results
	Polymer modified asphaltic emulsion	COC + samples & test results
	Micro-surfacing emulsion	COC + sample & test results
37-5 PARKING AREA SEALS		
37-5.01C	Parking area seal material	COC + sample & test results
37-6 CRACK TREATMENTS		
37-6.01C	Crack treatment materials	COC or sample & test results
39-2 HOT MIX ASPHALT		
39-2.01A(3)(f)	Liquid antistrip	COC + sample & production data
39-2.03A(3)(c)	Crumb rubber modifier	COC + test results
	Asphalt modifier	COC + test results
39-2.03B(3)(c)	Crumb rubber modifier	COC + test results
39-2.05A(1)(c)	Asphaltic emulsion	COC + test results+sample
40 CONCRETE PAVEMENT		
40-1.01C(2)	Tie bars	COC
	Splice couplers for threaded bars	COC
	Dowel bars	COC
	Tie bar baskets	COC
	Dowel bar baskets	COC
	Joint filler	COC
	Epoxy-powder coating	COC
41 EXISTING CONCRETE PAVEMENT		
41-1.01C	Fast-setting concrete	COC + SDS & instructions
	Polyester resin binder	COC + SDS & instructions
	Bonding agent	COC + SDS & instructions

* For those materials requiring additional information on or with the COC, see specification.

Caltrans 2024 Standard Specifications	Material	Additional Info and/or Attachments Required*
41-5 JOINT SEALS		
41-5.01C	Liquid joint sealant	COC + SDS & instructions
	Backer rods	COC + SDS & instructions
	Compression joint seal	COC + SDS & instructions
	Lubricant adhesives	COC + SDS & instructions
41-10 DRILL AND BOND BARS		
41-10.01C	Tie bars	COC
	Dowel bars	COC
	Dowel bar lubricant	COC
	Chemical adhesive	COC
	Epoxy powder coating	COC
47-6 ALTERNATIVE EARTH RETAINING SYSTEMS		
47-6.01C(3)	Alternative earth retaining system	COC
48-2 FALSEWORK		
48-2.01C(1)	Structural composite lumber	COC + submittals
	Timber	COC + submittals
48-4 TEMPORARY DECKING		
48-4.01C	Temporary decking materials	COC
49-2 DRIVEN PILING		
49-2.02A(3)(d)	Steel pipe piles	COC + tests & mill reports
49-2.03A(3)	Structural shape steel piling	COC + test reports
51 CONCRETE STRUCTURES		
51-1.01C(3)	Bonding materials	COC or sample & authorization
51-1.01C(5)	Chemical adhesive	COC + SDS + Instructions
51-2 JOINTS		
51-2.01A(3)	Acetal copolymer material for snowplow deflectors	COC
51-2.02B(1)(c)	Joint seals, backer rods, and primer	COC + SDS + Instructions
51-2.02C(1)(c)	Elastomeric joint seal	COC + test reports
	Lubricant-adhesive	COC + test reports
51-2.02D(1)(c)	Joint seal materials	COC + authorization
51-2.02E(1)(c)(iii)	Joint seal assembly materials	COC
51-2.02F(1)(c)(iv)	Material used in the joint seals	COC + test reports
51-2.04A(3)	Waterstop material	COC + a statement

* For those materials requiring additional information on or with the COC, see specification.

Caltrans 2024 Standard Specifications	Material	Additional Info and/or Attachments Required*
51-3 BEARINGS		
51-3.02A(3)(c)(ii)	Plain elastomeric bearing pads	COC + test reports
51-3.02A(3)(c)(iii)	Steel-reinforced elastomeric bearing pads	COC + test reports
51-3.03A(3)(a)	Materials used in PTFE bearings	COC + test reports + statement
51-4 PRECAST CONCRETE MEMBERS		
51-4.01C(1)	Concrete box culvert	COC
52 REINFORCEMENT		
52-1.01C(3)	Reinforcement (rebar)	COC + mill test report
52-2 EPOXY-COATED REINFORCEMENT		
52-2.02A(3)(c)	Epoxy-coated reinforcement	COC + submittals
	Patching material	COC + a statement
52-2.023A(3)(c)	Epoxy-coated reinforcement	COC + submittals
	Patching material	COC + a statement
52-5.01C(2)(b)	Headed bar reinforcement	COC + test samples
52-5.01C(4)	Headed bar reinforcement	COC + test reports
52-6 SPLICING		
52-6.01C(3)(b)	Service and butt splice samples	COC + samples
52-6.01C(5)	Service or butt splice material	COC + submittals
54 WATERPROOFING		
54-3 PREFORMED MEMBRANE WATERPROOFING		
54-3.01C	Preformed membrane sheet	COC + report
54-5 DECK SEAL		
54-5.01C	Preformed membrane sheet	COC + report
55 STEEL STRUCTURES		
55-1.01c(1)	Steel materials used	COC + Test reports
57-2 WOOD STRUCTURES		
57-2.01A(3)	Timber and lumber	COC + report
	Glued laminated timbers/decking	COC
57-3 PLASTIC LUMBER STRUCTURES		
57-3.01C(1)	Plastic lumber	COC + test report & sample
58-2 MASONRY BLOCK		
58-2.01C(7)	CMUs	COC
	Aggregate for grout	COC
	Grout	COC

* For those materials requiring additional information on or with the COC, see specification.

Caltrans 2024 Standard Specifications	Material	Additional Info and/or Attachments Required*
59 STRUCTURAL STEEL COATINGS		
59-1.01C	Blast cleaning material	COC + SDS
59-5 THERMAL SPRAY COAT STRUCTURAL STEEL		
59-5.01C(1)	Wire feedstock	COC
60-3.04B POLYESTER CONCRETE OVERLAYS		
60-3.04B(1)(c)	Methacrylate resins	COC + samples & test report
	Polyester resins	COC + samples & test report
	Aggregates	COC + samples & test report
60-3.05B(1)(c)	Filler material and bonding agents	COC + samples
61-2 CULVERT AND DRAINAGE PIPE JOINTS		
61-2.01C	Joint systems	COC + test results & reports
	Couplers	COC + test results & reports
62 STORMWATER TREATMENT		
62-1.01C	Source material	COC
62-3.01C	Source material	COC
64 PLASTIC PIPE		
64-1.01C	Plastic pipe	COC + report
65-2 REINFORCED CONCRETE PIPE		
65-2.01C	RCP, direct design method	COC + report
66 CORRUGATED METAL PIPE		
66-1.01C	Corrugated steel materials	COC
	Corrugated aluminum materials	COC
67-3 METAL LINE PLATE PIPE		
67-2.01C	Structural metal plate pipe, arches, and pipe arches	COC + Instructions
67-3.01C	Metal liner plate pipe	COC + mill test reports
68 SUBSURFACE DRAINS		
68-1.01C	Subsurface drain	COC
68-2 UNDERDRAINS		
68-2.01C	Pipe	COC
	Tubing	COC
	Fittings	COC
68-7 GEOCOMPOSITE DRAIN SYSTEMS		
68-7.01C	Geocomposite drain	COC + flow capability graph
68-8.01C(1)	Prefabricated vertical drain	COC+ Test samples

* For those materials requiring additional information on or with the COC, see specification.

Caltrans 2024 Standard Specifications	Material	Additional Info and/or Attachments Required*
69 OVERSIDE DRAINS		
69-1.01C	Steel	COC
	Aluminum	COC
	Plastic	COC
70-6 GRATED LINE DRAINS		
70-6.01C	Grated line drains	COC + Report
71-3.09 MACHINE SPIRAL WOUND PVC PIPELINERS		
71-3.09A(1)(c)	Each reel of PVC strip	COC + Report
72-16 GABIONS		
72-16.01C	Gabion basket	COC
	PVC coating	COC
74 PUMPING EQUIPMENT AND CONTROLS		
74-2.01C(3)	Impeller balancing and drainage pump tests	COC + Report
75-3 MISCELLANEOUS BRIDGE METAL		
75-3.01C(1)	Anchorage devices	COC
75-3.01C(2) BRIDGE DECK DRAINAGE SYSTEM		
75-3.01C(2)	Fiberglass pipe and fittings	COC + Test results
80-3 CHAIN LINK FENCES		
80-3.01C	Protective coating system	COC
	Posts and braces	COC + Report
81 MISCELLANEOUS TRAFFIC CONTROL DEVICES		
81-2 DELINEATORS		
81-2.01C	Metal target plates	COC
	Enamel coating	COC
81-3 PAVEMENT MARKERS		
81-3.01C	Pavement markers	COC
82 SIGNS AND MARKERS		
82-2 SIGN PANELS		
82-2.01C	Aluminum sheeting	COC
	Retroreflective sheeting	COC
	Color imaging methods and film	COC
	Protective overlay film	COC

* For those materials requiring additional information on or with the COC, see specification.

Caltrans 2024 Standard Specifications	Material	Additional Info and/or Attachments Required*
82-5 MARKERS		
82-5.01C	Metal target plates	COC
	Enamel coating	COC
	Retroreflective sheeting	COC
83-2 METAL RAILINGS AND BARRIERS		
83-2.08A(3)	Tubular railing components	COC + Shop drawings
83-3 CONCRETE BARRIERS		
83-3.01C	Type 60K portable concrete barrier	COC or test reports
84-2 TRAFFIC STRIPES AND PAVEMENT MARKINGS		
84-2.01C	Stripe material	COC + SDS + Instructions
	Primer	COC + SDS + Instructions
	Glass beads	COC + SDS + Instructions
	Thermoplastic	COC + SDS + test results
DIVISION X ELECTRICAL WORK		
86-1.01C(6)	Signal heads	COC + test data
86-1.01C(8)	Visors	COC + test data
87-2 LIGHTING SYSTEMS		
87-2.01C	High mast lighting luminaires	COC + test data
90 CONCRETE		
90-1.01C(3)	Cementitious materials	COC
	Blended cement	COC + SCM weight
90-1.01C(4)	Admixture	COC + authorization
90-1.01C(5)	Curing compound	COC + test samples
90-1.01C(12)	Cast-In-Place structural concrete material	COC
90-1.01C(13)	Polymer Fibers	COC + Instructions
90-2 MINOR CONCRETE		
90-2.01C	Minor concrete	COC + weighmaster cert
90-3 RAPID STRENGTH CONCRETE		
90-3.01C(3)	Aggregate	COC + weighmaster cert
	Cementitious materials	COC + weighmaster cert
	Admixtures	COC + weighmaster cert
90-4 PRECAST CONCRETE		
90-4.01C(2) and 90-4.01D(2)(a)	Cementitious materials	COC + app. signature
	Precast members (each)	COC + app. signature
	Curing compound	COC + test samples

* For those materials requiring additional information on or with the COC, see specification.

Caltrans 2024 Standard Specifications	Material	Additional Info and/or Attachments Required*
94 ASPHALTIC EMULSIONS		
94-1.01C	Asphaltic emulsion	COC + reports
95 EPOXY		
95-1.01C	Epoxy	COC
96 GEOSYNTHETICS		
95-1.01C(1)	Geosynthetic	COC + test samples

* For those materials requiring additional information on or with the COC, see specification.