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Be energy efficient!*

March 6, 2012

03-ED-50-78.9/79.5
03-1A7344
Project ID 0300000216
ACNH-P050(128)E

Addendum No. 2

Dear Contractor:

This addendum is being issued to the contract for CONSTRUCTION ON STATE HIGHWAY IN EL DORADO COUNTY IN SOUTH LAKE TAHOE FROM 0.2 MILE WEST OF SKI RUN BOULEVARD TO WILDWOOD AVENUE.

Submit bids for this work with the understanding and full consideration of this addendum. The revisions declared in this addendum are an essential part of the contract.

Bids for this work will be opened on Wednesday, March 14, 2012.

This addendum is being issued to revise the Project Plans, the Notice to Bidders and Special Provisions, the Bid book, and the Federal Minimum Wages with Modification Number 4 dated 3/02/2012.

Project Plan Sheets 25, 26 and 29 are revised. Copies of the revised sheets are attached for substitution for the like-numbered sheets.

Project Plan Sheets 24A, 24B and 24C are added. Copies of the added sheets are attached for addition to the project plans.

In the Special Provisions, Section 4, "BEGINNING OF WORK, TIME OF COMPLETION, AND LIQUIDATED DAMAGES," the first paragraph is revised as follows:

"The 1st working day is the 85th day after contract approval."

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In the Special Provisions, Section 5-1.07, "AREA FOR CONTRACTOR'S USE," the following paragraphs are added after the fourth paragraph.

"For alternate staging areas, outside of the right of way, selected by the Contractor, the Contractor shall submit the following information to the Engineer for review and approval:

1. Site plan including site limits, access roads and stormwater and water quality BMP's
2. Property owner agreements.
3. Release of liability.
4. Legal access for Caltrans staff to inspect the location.
5. Environmental compliance documentation prepared by appropriate qualified environmental specialists.
6. All necessary permits, licenses and agreements.
7. Final grading plan in conformance with the Standard Specifications.
8. Restoration plan.

The Engineer will review and comment on the information within 10-days. Once the submittals are adequate, the Engineer will forward them to the appropriate agencies for review and approval. The site plan and restoration plan must be approved by TRPA prior to the start of construction."

In the Special Provisions, Section 10-1.01, "ORDER OF WORK," the following paragraphs are added after the sixth paragraph.

"The Contractor shall keep any and all asphalt concrete grindings and material away from all bodies of water, streams and rivers at a minimum distance of 10 feet.

Ground water and/or seepage water may be encounter in excavations. Difficult excavation is anticipated due to boulder and/or bedrock.

The Contractor shall expose by hand methods and provide referenced locations and depths to the Engineer 72 hours prior to any excavation made within 4-feet from a field marked position by the utility owner of any 6-inch or greater diameter gas line or any underground electrical line, or 2-feet from any other underground utility.

All rock material (gravel, cobble and boulders) shall be clean and thoroughly washed prior to arrival at the site to ensure that the rock is free of any silt or clay particles.

All new and existing drainage facilities affected by the project shall be operational prior to winter suspension."

In the Special Provisions, Section 10-1.02, "WATER POLLUTION CONTROL," is revised as attached.

In the Special Provisions, Section 10-1.27, "CONTAMINATED MATERIAL," subsection "GENERAL," subsection "Definitions," the third and fourth paragraphs are revised as follows:

"Type DH is defined as petroleum impacted material (soil) that requires stockpiling, for analytical testing that will be performed by the Engineer. Type DH material will be encountered during roadway excavation work and during structure excavation work for drainage improvements at the following location:

From Station "A" 205+50 to 209+00

Petroleum hydrocarbon-impacted groundwater may be encountered during structure excavation work and installation of proposed sand-traps (drop inlets) work within Station "A" 205+50 to 209+00."

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In the Special Provisions, Section 10-1.325, "STAINING GALVANIZED STEEL SURFACES," is added as attached.

In the Bid book, in the "Bid Item List," Item 54 is revised as attached.

To Bid book holders:

Replace page 5 of the "Bid Item List" in the Bid book with the attached revised page 5 of the Bid Item List. The revised Bid Item List is to be used in the bid.

Inquiries or questions in regard to this addendum must be communicated as a bidder inquiry and must be made as noted in the Notice to Bidders section of the Notice to Bidders and Special Provisions.

Indicate receipt of this addendum by filling in the number of this addendum in the space provided on the signature page of the Bid book.

Submit bids in the Bid book you now possess. Holders who have already mailed their book will be contacted to arrange for the return of their book.

Inform subcontractors and suppliers as necessary.

This addendum and attachments are available for the Contractors' download on the Web site:

http://www.dot.ca.gov/hq/esc/oe/project_ads_addenda/03/03-1A7344

If you are not a Bid book holder, but request a book to bid on this project, you must comply with the requirements of this letter before submitting your bid.

Sincerely,



REBECCA D. HARNAGEL
Chief, Office of Plans, Specifications & Estimates
Office Engineer
Division of Engineering Services

Attachments

10-1.02 WATER POLLUTION CONTROL

GENERAL

Summary

Discharges of storm water from the project must comply with NPDES General Permit for "General Waste Discharge Requirements and National Pollutant Discharge Elimination System Permit for Storm Water Discharges Associated with Construction Activity in the Lake Tahoe, Hydrologic Unit, Counties of Alpine, El Dorado, and Placer NPDES No. CAG616002" (Order No. R6T-2011-0019) hereinafter called the "Tahoe Permit". Manage work activities to reduce the discharge of pollutants to surface waters, groundwater, or municipal separate storm sewer systems including work items shown in the Bid Item List for:

1. Prepare Storm Water Pollution Prevention Plan. SWPPP preparation includes obtaining SWPPP approval, amending the SWPPP, preparing a CSMRP and a SAP, and monitoring and inspecting WPC practices at the job site.
2. Storm Water Annual Report. Storm Water Annual Report preparation includes certifications, monitoring and inspection results, and obtaining Storm Water Annual Report acceptance.
3. Storm Water Sampling and Analysis Day. Storm Water Sampling and Analysis Day includes reporting of storm water quality per qualifying rain event. The work includes preparation, collection, analysis, and reporting of storm water samples for turbidity, pH, and other constituents.
4. Rain Event Action Plan. REAP preparation includes preparing and submitting REAP forms and monitoring weather forecasts.

Do not start work until:

1. SWPPP is approved.
2. WDID is issued.
3. SWPPP review requirements have been fulfilled. Allow 30 days for the RWQCB to review the SWPPP as specified under "Submittals" of these special provisions.

Definitions and Abbreviations

active and inactive areas: (1) Active areas have soil disturbing work activities occurring at least once within 14 days, and (2) Inactive areas are areas that have not been disturbed for at least 15 days.

BMPs: Best Management Practices are water pollution control practices.

construction phase: Construction phases are (1) Highway Construction including work activities for building roads and structures, (2) Plant Establishment including maintenance on vegetation installed for final stabilization, and (3) Suspension where work activities are suspended and areas are inactive.

CSMRP: Construction Site Monitoring and Reporting Program.

NEL: Numeric Effluent Limit.

NPDES: National Pollutant Discharge Elimination System.

NOI: Notice of Intent.

normal working hours: The hours you normally work on this project.

Preparation Manual: The Department's "Storm Water Pollution Prevention Plan and Water Pollution Control Program Preparation Manual."

QSD: Qualified SWPPP Developer.

QSP: Qualified SWPPP Practitioner.

qualified rain event: A qualified rain event is a storm that produces any runoff to specified project runoff control points that discharge to municipal separate storm sewer systems, surface waters, or tributaries to surface waters that does not exceed the compliance storm event of a 20-year, 1-hour storm, which is equal to an intensity of 1 inch of rainfall in a 1-hour period. Separate storm events constitutes a 48 hour or greater period of quiescence resulting in less than 0.10 of an inch of rain between storms. Qualified rain events must produce runoff resulting in a discharge off the project boundaries.

REAP: Rain Event Action Plan.

RWQCB: Lahontan Regional Water Quality Control Board.

SAP: Sampling and Analysis Plan.

SSC: Suspended Sediment Concentration.

SWRCB: State Water Resources Control Board.

SWPPP: Storm Water Pollution Prevention Plan.

WDID: Waste Discharge Identification Number.

WPC: Water Pollution Control.

WPC Manager: Water Pollution Control Manager. The WPC Manager implements water pollution control work described in the SWPPP and oversees revisions and amendments to the SWPPP.

Submittals

Within 20 days after contract approval, start the following process for SWPPP approval:

1. Submit 3 copies of the SWPPP and allow 20 days for the Engineer's review. If revisions are required, the Engineer provides comments and specifies the date that the review stopped.
2. Change and resubmit the SWPPP within 15 days of receipt of the Engineer's comments. The Engineer's review resumes when the complete SWPPP is resubmitted.
3. When the Engineer approves the SWPPP, submit an electronic and 4 printed copies of the approved SWPPP.
4. If the RWQCB reviews the approved SWPPP, the Engineer submits one copy of the approved SWPPP to the RWQCB for their review and comment.
5. If the Engineer requests changes to the SWPPP based on RWQCB comments, amend the SWPPP within 10 days.

Submit:

1. Storm water training records including training dates and subjects for employees and subcontractors. Include dates and subjects for ongoing training, including tailgate meetings.
2. Employee training records:
 - 2.1. Within 5 days of SWPPP approval for existing employees
 - 2.2. Within 5 days of training for new employees
 - 2.3. At least 5 days before subcontractors start work for subcontractor's employees

Prepare a Storm Water Annual Report for the reporting period from October 16th to October 15th:

1. If construction occurs from October 16th through October 15th, submit the report no later than October 30th for the prior reporting period
2. If construction ends before October 15th, submit the report within 15 days after contract acceptance

Submit the Storm Water Annual Report as follows:

1. Submit 2 copies of the Storm Water Annual Report and allow 10 days for the Engineer's review. If revisions are required, the Engineer provides comments and specifies the date that the review stopped.
2. Change and resubmit the Storm Water Annual Report within 5 days of receipt of the Engineer's comments. The Engineer's review resumes when the complete Storm Water Annual Report is resubmitted.
3. When the Engineer accepts the Storm Water Annual Report, insert the WPC Manager's signed certification and the Engineer's signed certification.

Submit one electronic copy and 2 printed copies of the accepted Storm Water Annual Report.

Submit as required (All Reporting Requirements, including but not limited to):

1. Visual Monitoring Reports
2. Inspection Reports
3. BMP Status Report

At least 5 days before operating any construction support facility, submit:

1. A plan showing the location and quantity of WPC practices associated with the construction support facility
2. A copy of the NOI approved by the RWQCB and the SWPPP approved by the RWQCB if you will be operating a batch plant or a crushing plant under the General Industrial Permit

Quality Control and Assurance

Training

Provide storm water training for:

1. Project managers
2. Supervisory personnel
3. Employees involved with WPC work

Train all employees, including subcontractor's employees, in the following subjects:

1. WPC rules and regulations
2. Implementation and maintenance for:
 - 2.1. Temporary Soil Stabilization
 - 2.2. Temporary Sediment Control
 - 2.3. Tracking Control
 - 2.4. Wind Erosion Control
 - 2.5. Material pollution prevention and control
 - 2.6. Waste management
 - 2.7. Non-storm water management
 - 2.8. Identifying and handling hazardous substances
 - 2.9. Potential dangers to humans and the environment from spills and leaks or exposure to toxic or hazardous substances

Employees must receive initial WPC training before working on the job site.

Conduct weekly training meetings covering:

1. WPC BMP deficiencies and corrective actions
2. BMPs that are required for work activities during the week
3. Spill prevention and control
4. Material delivery, storage, use, and disposal
5. Waste management
6. Non-storm water management procedures

Training for personnel to collect water quality samples must include:

1. SAP review
2. Health and safety review
3. Sampling simulations

If you operate construction support facilities, protect storm water systems or receiving waters from the discharge of potential pollutants by using WPC practices.

Construction support facilities include:

1. Staging areas
2. Storage yards for equipment and materials
3. Mobile operations
4. Batch plants for PCC and HMA
5. Crushing plants for rock and aggregate
6. Other facilities installed for your convenience such as haul roads

If you operate a batch plant to manufacture PCC, HMA, or other material; or a crushing plant to produce rock or aggregate; obtain coverage under the General Industrial General Permit. You must be covered under the General Industrial Permit for batch plants and crushing plants located:

1. Outside of the job site
2. Within the job site that serve one or more contracts

Discharges from manufacturing facilities such as batch plants must comply with the general waste discharge requirements for Order No. 97-03-DWQ, NPDES General Permit No. CAS000001, issued by the SWRCB for "Discharge of Stormwater Associated with Industrial Activities Excluding Construction Activities." For the General Industrial Permit, go to:

<http://www.waterboards.ca.gov/>

You may obtain copies of the Preparation Manual from the Publication Distribution Unit. The mailing address for the Publication Distribution Unit is:

State of California
Department of Transportation
Publication Distribution Unit
1900 Royal Oaks Drive
Sacramento, California 95815
Telephone: (916) 445-3520

The Preparation Manual and other WPC references are available at the Department's "Construction Storm Water and Water Pollution Control" Web site. For the Web site, go to:

<http://www.dot.ca.gov/hq/construc/stormwater/stormwater1.htm>

Water Pollution Control Manager

Assign one WPC Manager to implement the SWPPP. The WPC Manager must comply with the qualifications for a QSP and a QSD under the Tahoe Permit. You may assign a different QSD to prepare the SWPPP.

The QSD must have the following qualifications:

1. Department approved storm water management training described in the Department's "Construction Storm Water and Water Pollution Control" web site
2. Registration or certification described in the Tahoe Permit

The QSP must meet the qualifications of the QSD or have the following certifications:

1. Department approved storm water management training described in the Department's "Construction Storm Water and Water Pollution Control" web site
2. Certification described in the Tahoe Permit

At the job site, the WPC Manager must:

1. Be responsible for WPC work
2. Be the primary contact for WPC work
3. Oversee the maintenance of WPC practices
4. Oversee and enforce hazardous waste management practices
5. Have the authority to mobilize crews to make immediate repairs to WPC practices
6. Ensure that all employees have current water pollution control training
7. Implement the approved SWPPP and amend the SWPPP when required

WPC Manager must oversee:

1. Inspections of WPC practices identified in the SWPPP
2. Inspections and reports for visual monitoring
3. Preparation and implementation of REAPs
4. Sampling and analysis
5. Preparation and submittal of:
 - 5.1. SWPPP annual certification
 - 5.2. BMP status reports
 - 5.3. Annual reports
 - 5.4. Final Monitoring Report

STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

General

SWPPP work includes preparing a SWPPP including a CSMRP, obtaining SWPPP approval, amending the SWPPP, inspecting and reporting on WPC practices at the job site. The SWPPP must comply with the Preparation Manual and the Tahoe Permit. The SWPPP must be submitted in place of the water pollution control program under Section 7-1.01G, "Water Pollution," of the Standard Specifications.

You may request, or the Engineer may order, changes to the WPC work. Changes may include the addition of new WPC practices. Additional WPC work will be paid for as extra work under Section 4-1.03D, "Extra Work," of the Standard Specifications.

The SWPPP must include sections as follows:

1. Schedule
2. CSMRP
3. REAP
4. Adherence to Effluent Standards for NELs

The SWPPP must include WPC practices for:

1. Storm water and non-stormwater from areas outside of the job site related to project work activities such as:
 - 1.1. Staging areas
 - 1.2. Storage yards
 - 1.3. Access roads
2. Activities or mobile operations related to contractor obtained NPDES permits
3. Construction support facilities

The SWPPP must include a copy of permits obtained by the Department such as Fish & Game permits, TRPA, US Army Corps of Engineers permits, RWQCB 401 Certifications, and RWQCB Waste Discharge Requirements for Aerially Deposited Lead Reuse.

Amend the SWPPP annually and resubmit it by July 15th.
Amend the SWPPP if:

1. Changes in work activities could affect the discharge of pollutants
2. WPC practices are added by change order work
3. WPC practices are added at your discretion
4. Changes in the amount of disturbed soil are substantial
5. Objectives for reducing or eliminating pollutants in storm water discharges have not been achieved
6. There is a Tahoe Permit violation

Whenever you amend the SWPPP, follow the same process specified for SWPPP approval.
Retain a printed copy of the approved SWPPP at the job site.

SWPPP Schedule

The SWPPP schedule must:

1. Describe when work activities will be performed that could cause the discharge of pollutants into storm water
2. Describe WPC practices associated with each construction phase
3. Identify soil stabilization and sediment control practices for disturbed soil areas

Construction Site Monitoring and Reporting Program (CSMRP)

General

The QSD must prepare a CSMRP as part of the SWPPP. The CSMRP must be developed before starting work and be revised to reflect current construction activities as necessary.

The CSMRP must include sections as follows:

1. Purpose
2. Visual Monitoring (Inspections)
3. Water Quality Sampling and Analysis
4. Watershed Monitoring Option
5. Quality Assurance and Quality Control
6. Reporting Requirements and Records Retention
7. Non-Compliance Reporting
8. Annual Report
9. Final Report

Visual Monitoring

The WPC Manager must oversee the performance of visual inspections for qualifying rain events.

For each qualifying rain event, perform visual inspections and record observations during normal working hours as follows:

1. Record the time, date, and rain gauge reading
2. Observe:
 - 2.1. Within 24 hours before the storm:
 - 2.1.1. Drainage areas for spills, leaks, or uncontrolled pollutants
 - 2.1.2. Proper implementation of WPC practices
 - 2.1.3. Storm water storage areas for leaks and adequate freeboard
 - 2.2. Daily during extended storm events:
 - 2.2.1. WPC practices for effective operation
 - 2.2.2. WPC practices needing maintenance and repair
 - 2.3. Within 24 hours after the storm event:
 - 2.3.1. Discharge locations
 - 2.3.2. WPC practices to evaluate the design, implementation, and effectiveness
 - 2.3.3. To identify where additional WPC practices may be needed

Perform non-stormwater discharge visual inspections as follows:

1. Perform inspections:
 - 1.1. At the end of each work day during active construction
 - 1.2. Monthly during inactive periods such as winter shutdown
2. Observe flowing and contained storm water for the presence of floating and suspended materials, sheen on the surface, discoloration, turbidity, odors, and sources of observed pollutants
3. Observe the job site for the presence of authorized and unauthorized non-stormwater discharges and their sources

The WPC Manager must prepare visual inspection reports that include the following:

1. Name of personnel performing the inspection, inspection date, and date inspection report completed
2. Storm and weather conditions
3. Locations and observations
4. Corrective actions taken

Maintain visual inspections reports at the job site as part of the SWPPP.

Sampling and Analysis Plan (SAP)

General

Include a SAP in the CSMRP to monitor the effectiveness of WPC practices.

The SAP must comply with:

1. Preparation Manual
2. Monitoring and Reporting Program of the Tahoe Permit

For the Monitoring and Reporting Program of the Tahoe Permit, go to:

http://www.waterboards.ca.gov/lahontan/water_issues/available_documents/misc/tahoe_gcp.pdf

Assign trained personnel to collect water quality samples. Document their training in the SAP. Describe the following water quality sampling procedures in the SAP:

1. Sampling equipment
2. Sample preparation
3. Collection
4. Field measurement methods
5. Analytical methods
6. Quality assurance and quality control
7. Sample preservation and labeling
8. Collection documentation
9. Sample shipping
10. Chain of custody
11. Data management and reporting
12. Precautions from the construction site health and safety plan
13. Laboratory selection and certifications

Whenever assigned field personnel take samples, comply with the equipment manufacturer's recommendation for collection, analysis methods, and equipment calibration.

Samples taken for laboratory analysis must follow water quality sampling procedures and be analyzed by a State-certified laboratory under 40 CFR Part 136, "Guidelines Establishing Test Procedures for the Analysis of Pollutants."

The SAP must identify the State-certified laboratory, sample containers, preservation requirements, holding times, and analysis method. For a list of State-certified laboratories, go to:

<http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx>

Include procedure for sample collection during precipitation.

Retain water quality sampling documentation and analytical results with the SWPPP at the job site.

Show pollutant sampling locations on SWPPP drawings.

If discharges or sampling locations change because of changed work activities or knowledge of site conditions, amend the SAP.

Include procedures for collecting and analyzing at least 3 samples for each day of each qualifying rain event. Describe the collection of effluent samples at all locations where the storm water is discharged off-site.

Analytical Results and Evaluation

Submit an electronic copy (in file format .xls, .txt, .csv, .dbs, or .mdb) and a printed copy of water quality analytical results, and quality assurance and quality control within 48 hours of field analysis sampling, and within 30 days for laboratory analysis. Also provide an evaluation of whether the downstream samples show levels of the tested parameter that are higher than the control sample.

Electronic water quality analysis results must have the following information:

1. Sample identification number
2. Contract number
3. Constituent
4. Reported value
5. Analytical method
6. Method detection limit
7. Reported limit

SAP for Non-Visible Pollutants

The SAP must include a description of the sampling and analysis strategy for monitoring non-visible pollutants.

The SAP must identify potential non-visible pollutants present at the job site associated with any of the following:

1. Construction materials and waste
2. Existing contamination due to historical site usage
3. Application of soil amendments, including soil stabilization materials, with the potential to change pH or contribute toxic pollutants to storm water

SWPPP drawings must show the locations planned for storage and use of potential non-visible pollutants.

The SAP must include sampling procedures for the following conditions when observed during a storm water visual inspection. For each of the following, collect at least one sample for each qualifying storm event:

1. Materials or waste containing potential non-visible pollutants that are not stored under watertight conditions
2. Materials or waste containing potential non-visible pollutants that are stored under watertight conditions, but a breach, leakage, malfunction, or spill is observed; the leak or spill has not been cleaned up before precipitation; and material or waste could discharge non-visible pollutants to surface waters or drainage system
3. Chemical applications, including fertilizer, pesticide, herbicide, methyl methacrylate concrete sealant, or non-pigmented curing compound used during precipitation or within 24 hours preceding precipitation, and could discharge pollutants to surface waters or drainage system
4. Applied soil amendments, including soil stabilization materials that could change pH levels or contribute toxic pollutants to storm water runoff and discharge pollutants to surface waters or drainage system, unless available independent test data indicates acceptable concentrations of non-visible pollutants in the soil amendment
5. Storm water runoff from an area contaminated by historical usage of the site that could discharge pollutants to surface waters or drainage systems

The SAP must provide sampling procedures and schedule for:

1. Sample collection during any runoff to specified project runoff control points that discharge to municipal separate storm sewer systems, surface waters, or tributaries to surface waters that does not exceed the compliance storm event of a 20-year, 1-hour storm, which is equal to an intensity of 1 inch of rainfall in a 1-hour period. Separate storm events constitutes a 48 hour or greater period of quiescence resulting in less than 0.10 of an inch of rain between storms. Qualified rain events must produce runoff resulting in a discharge off of the project boundaries.
2. Sample collection during normal working hours
3. Each non-visible pollutant source
4. Uncontaminated control sample

The SAP must identify locations for sampling downstream and control samples, and reasons for selecting those locations. Select control sample locations where the sample will not come in contact with materials, waste, or areas associated with potential non-visible pollutants or disturbed soil areas.

SAP for Sediment and Turbidity

Sample and analyze for turbidity:

Parameter	Test Method	Detection Limit (Min)	Unit
Turbidity	Field test with calibrated portable instrument	1	NTU

If the turbidity NEL has been exceeded, sample and analyze for SSC at the discharge point:

Parameter	Test Method	Detection Limit (Min)	Unit
SSC	ASTM Method D3977-97	5	Mg/L

SAP for pH

Sample and analyze for pH:

Parameter	Test Method	Detection Limit (Min)	Unit
pH	Field test with calibrated portable instrument	0.2	pH units

SAP for Receiving Waters

Describe procedures for obtaining samples from representative and accessible locations:

1. Upstream of the discharge point
2. Downstream of the discharge point

Show receiving water sampling locations on SWPPP drawings.

If there are several discharge points, describe procedures for obtaining samples from a single upstream and a single downstream location.

Rain Event Action Plan (REAP)

REAP work includes preparing and submitting REAP forms and monitoring weather forecasts. The WPC Manager must submit a REAP to protect the job site at least 24 hours before a predicted rain event during the period from May 1 to October 15 and during periods when construction activity is conducted under a variance to the land disturbance prohibition of the Tahoe Permit.

Prepare a REAP when the National Weather Service is predicting at least a 30 percent probability of precipitation in the form of rainfall in the project area within 48 hours.

For the REAP, use approved forms and include:

1. Site location
2. Contact information including 24-hour emergency phone numbers for:
 - 2.1. WPC Manager
 - 2.2. Erosion and sediment control providers or subcontractors
 - 2.3. Storm water sampling providers or subcontractors
3. Storm Information
4. Construction phase information for:
 - 4.1. Highway Construction including active and inactive areas for work activities for building roads and structures
 - 4.2. Plant Establishment including maintenance on vegetation installed for final stabilization where areas are inactive
 - 4.3. Suspension where work activities are suspended and areas are inactive

5. Construction phase information including:
 - 5.1. Construction activities
 - 5.2. Subcontractors and trades on the job site
 - 5.3. Pre-storm activities including:
 - 5.3.1. Responsibilities of the WPC Manager
 - 5.3.2. Responsibilities of the crew and crew size
 - 5.3.3. Stabilization for active and inactive disturbed soil areas
 - 5.3.4. Stockpile management
 - 5.3.5. Corrective actions taken for deficiencies identified during pre-storm visual inspection
 - 5.4. Activities performed during storm events include:
 - 5.4.1. Responsibilities of the WPC Manager
 - 5.4.2. Responsibilities of the crew and crew size
 - 5.4.3. BMP maintenance and repair
 - 5.5. Description of flood contingency measures

You must have the REAP onsite at least 24 hours before a predicted rain event. A printed copy of each REAP must be at the job site as part of the SWPPP.

Implement the REAP including mobilizing crews to complete activities no later than 24 hours before precipitation occurs.

IMPLEMENTATION REQUIREMENTS

SWPPP Implementation

Obtain, install, and maintain a rain gauge at the job site. Observe and record daily precipitation. Monitor the National Weather Service Forecast Office on a daily basis. For forecasts, go to:

<http://www.srh.noaa.gov/forecast>

Whenever you or the Engineer identifies a deficiency in the implementation of the approved SWPPP:

1. Correct the deficiency immediately, unless the Engineer agrees to a later date for making the correction
2. Correct the deficiency before precipitation occurs

If you fail to correct the deficiency by the agreed date or before the onset of precipitation, the Department may correct the deficiency and deduct the cost of correcting the deficiency from payment.

Continue SWPPP implementation during any temporary suspension of work activities.

Install WPC practices within 15 days or before predicted precipitation, whichever occurs first.

Numeric Effluent Limits (NELs) and Numeric Action Levels (NALS)

The project is subject to NELs:

Parameter	Test Method	Detection Limit (Min)	Unit	Numeric Effluent Limit (Maximum Concentration for Discharge to Storm Drain Systems and Receiving Waters)
pH	Field test with calibrated portable instrument	0.2	pH units	Lower NEL = 6.0 Upper NEL = 9.0
Turbidity	Field test with calibrated portable instrument	1	NTU	20 NTU

The storm event daily average for storms up to the 20-year, 1-hour storm, must not exceed the NELs.

Storm Water Sampling and Analysis Day

Storm Water Sampling and Analysis Day work includes preparation, collection, analysis, and reporting of storm water samples for turbidity and other constituents. When there is a qualified rain event that produces runoff, comply with the project's SAP for preparation, collection, analysis, and reporting of storm water samples. Collect:

1. Samples for each non-visible pollutant source and a corresponding uncontaminated control sample
2. Samples for turbidity, pH, and other constituents as specified
3. At least 3 samples for each day of each qualifying rain event
4. Samples for all locations where the storm water is discharged off-site

Perform sample collection during:

1. First 2 hours of each qualified rain event that produces runoff
2. Normal working hours

You are not required to physically collect samples during dangerous weather conditions such as flooding or electrical storms.

If downstream samples show increased levels, assess WPC practices, site conditions, and surrounding influences to determine the probable cause for the increase.

NAL Exceedance Report

Sampling for pH is required when materials and/or constituents that affect pH are placed, or stored and left unprotected prior to either stormwater, or non-stormwater run-on/run-off passing over or through the affected area. If sampling results indicate a pH result below 6.0, or above 9.0, the Contractor shall report the results to the Engineer immediately and prepare an exceedance report within 5 days of the event. The exceedance report shall include:

1. The analytical method(s), method reporting unit(s), and method detection limits. Analytical results that are less than the method detection limit shall be reported as "less than the method detection limit."
2. The date, location, time of sampling, visual observation (inspection), and/or measurements, including precipitation.
3. A description of current BMPs associated with the effluent sample that exceeded the NAL and the corrective actions taken.

Inspection

The WPC Manager must oversee inspections for WPC practices identified in the SWPPP:

1. Before a forecasted storm
2. After precipitation that causes site runoff
3. At 24-hour intervals during extended precipitation
4. On a predetermined schedule:
 - 4.1. At the end of each work day during periods of active construction
 - 4.2. At least once per month during periods of inactivity such as winter shutdown

The WPC Manager must oversee daily inspections of:

1. Storage areas for hazardous materials and waste
2. Hazardous waste disposal and transporting activities
3. Hazardous material delivery and storage activities
4. WPC practices specified under "Construction Site Management" of these special provisions

The WPC Manager must use the Storm Water Site Inspection Report provided in the Preparation Manual. The WPC Manager must prepare BMP status reports that include the following:

1. Location and quantity of installed WPC practices
2. Location and quantity of disturbed soil for the active or inactive areas

Within 24 hours of finishing the weekly inspection, the WPC Manager must submit:

1. Copy of the completed site inspection report
2. Copy of the BMP status report

REPORTING REQUIREMENTS

Storm Water Annual Report

Storm Water Annual Report work includes certifications, monitoring and inspection results, and obtaining Storm Water Annual Report acceptance. The WPC Manager must prepare a Storm Water Annual Report. The report must:

1. Use an approved report format
2. Include project information including description and location
3. Include storm water monitoring information including:
 - 3.1. Summary and evaluation of sampling and analysis results including laboratory reports
 - 3.2. Analytical methods, reporting units, detection limits for analytical parameters
 - 3.3. Summary of corrective actions
 - 3.4. Identification of corrective actions or compliance activities that were not implemented
 - 3.5. Summary of violations
 - 3.6. Names of individuals performing storm water inspections and sampling
 - 3.7. Logistical information for inspections and sampling including location, date, time, and precipitation
 - 3.8. Visual observations and sample collection records
4. Include documentation on training for:
 - 4.1. Individuals responsible for NPDES permit compliance
 - 4.2. Individuals responsible for BMP installation, inspection, maintenance, and repair
 - 4.3. Individuals responsible for preparing, revising, and amending the SWPPP

Reporting of Discharge

If the following occur, notify the Engineer within 6 hours:

1. You identify discharges into receiving waters or storm drain systems causing or potentially causing pollution
2. An NEL is exceeded
3. The project receives a written notice or order from the RWQCB or another regulatory agency

No later than 48 hours after the conclusion of a storm event resulting in a discharge, a non-stormwater discharge, or receiving a written notice or order, submit:

1. Date, time, location, and nature of the activity, type of discharge and quantity, and the cause of the notice or order
2. WPC practices used before the discharge, or before receiving the notice or order
3. Description of WPC practices and corrective actions taken to manage the discharge or cause of the written notice or order

Submit all sampling results to the Engineer no later than 48 hours after the conclusion of a storm event.

PAYMENT

The contract lump sum price paid for prepare storm water pollution prevention plan includes full compensation for furnishing all labor, materials, tools, equipment, and incidentals and for doing all the work involved in preparing, obtaining approval of, and amending the SWPPP and CSMRP, inspecting water pollution control practices, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer.

For projects with 60 working days or less, payments for SWPPP are made as follows:

1. After the Engineer approves the SWPPP, the Department includes up to 75 percent of the bid item price in the monthly progress estimate
2. After contract acceptance, the Department pays for the remaining percentage of the bid item price

For projects with more than 60 working days, payments for SWPPP are made as follows:

1. After the Engineer approves the SWPPP, the Department includes up to 50 percent of the bid item price in the monthly progress estimate
2. The Department pays 40 percent of the bid item price over the life of the contract
3. After contract acceptance, the Department pays for the remaining 10 percent of the bid item

The Department pays \$500 for each Rain Event Action Plan submitted. The contract unit price paid for Rain Event Action Plan includes full compensation for furnishing all labor, materials, tools, equipment, and incidentals and for doing all the work involved in preparation and submittal of REAP forms, and monitoring weather forecasts as specified in the Standard Specifications and these special provisions, and as directed by the Engineer.

The Department does not adjust payment for an increase or decrease in the quantity of rain event action plans submitted. Section 4-1.03B, "Increased or Decreased Quantities," of the Standard Specifications does not apply.

The Department pays \$2,000 for each Storm Water Annual Report submitted. The contract unit price paid for Storm Water Annual Report includes full compensation for furnishing all labor, materials, tools, equipment, and incidentals and for doing all the work involved in preparation and submittal of Storm Water Annual Report as specified in the Standard Specifications and these special provisions, and as directed by the Engineer.

The Department does not adjust payment for an increase or decrease in the quantity of storm water annual reports submitted. Section 4-1.03B, "Increased or Decreased Quantities," of the Standard Specifications does not apply.

The work to complete the final Storm Water Annual Report contract item is excluded from Section 7-1.17, "Acceptance of Contract," of the Standard Specifications.

The contract unit price paid for storm water sampling and analysis day includes full compensation for furnishing all labor, materials, tools, equipment, and incidentals and for doing all the work involved in preparation, collection, analysis, and reporting of storm water samples per qualifying rain event as specified in the Standard Specifications and these special provisions, and as directed by the Engineer.

The Department does not adjust payment for an increase or decrease in the quantity of storm water sampling and analysis day. Section 4-1.03B, "Increased or Decreased Quantities," of the Standard Specifications does not apply.

You may request or the Engineer may order laboratory analysis of storm water samples. Laboratory analysis of storm water samples will be paid for as extra work under Section 4-1.03D, "Extra Work," of the Standard Specifications.

The Department does not pay for the preparation, collection, laboratory analysis, and reporting of storm water samples for non-visible pollutants if WPC practices are not implemented before precipitation or if a failure of a WPC practice is not corrected before precipitation.

The Department does not pay for implementation of WPC practices in areas outside the highway right-of-way not specifically provided for in the plans or in the special provisions.

The Department does not pay for WPC practices installed at your construction support facilities.

WPC practices for which there are separate bid items of work are measured and paid for as those bid items of work.

For each failure to submit a completed Storm Water Annual Report, the Department withholds \$10,000. This withhold is in addition to other withholds under Section 9-1.07E(3) "Performance Failure Withholds," of the Standard Specifications.

Each failure to comply with any part of these special provisions and each failure to implement water pollution control practices are considered separate performance failures.

10-1.325 STAINING GALVANIZED STEEL SURFACES

GENERAL

Summary

This work consists of cleaning and staining all visible surfaces of galvanized metal beam guard railing and thrie beam barrier (MBGR), steel sign posts, steel hatches, steel delineators and markers and appurtenances to achieve a dark brown finish.

Submittals

Submit the following items to the Engineer 7 days prior to staining:

1. A copy of the stain manufacturer's product Material Safety Data Sheet, written stain application instructions, and the location and date of staining test section.
2. Certificate of Compliance for the stain under Section 6-1.07, "Certificates of Compliance," of the Standard Specifications.
3. Proposed methods to control overspray, spillage, and protection of adjacent surfaces for staining work occurring at the job site.

Quality Control and Assurance

Referee Sample

Stained surfaces must closely resemble the color of the referee sample located at Meyer's Maintenance Station available for inspection at 2243 Cornelian Drive, South Lake Tahoe, CA 96150.

Test Section

Apply stain to a minimum 2-foot test section of MBGR or other galvanized steel surface of the same specified size. Notify the Engineer not less than 7 days before staining the test section. Prepare and stain the test section with the same materials, tools, equipment and methods to be used in staining final surfaces. The applied stain must be allowed to cure for a minimum of 5 days before the Engineer's inspection. In the event more than one test section is required by the Engineer, each additional test section will be paid for as change order work. Use the approved test section as the standard of comparison in determining acceptability of staining.

MATERIALS

The stain must consist of a clear soluble solution of soft-buffered organic acids that accelerates the oxidization process without compromising the protective qualities of the galvanized surfacing. No pigment based colorants should be added to achieve the desired color. The stain must react with the galvanized steel surface over a period of 5-10 days to produce a dark brown color with a matte finish. The stain must be resistant to fading in the sun.

CONSTRUCTION

Preparation

Galvanized steel surfacing and appurtenances to be stained must be free of oils, dirt, and other contaminants.

Application

Stain must be applied to galvanized steel surfaces and non-threaded appurtenances at an offsite location within an enclosed shop before delivery to the job site. Stain must be applied to front and back faces according to the manufacturer's instructions to achieve a color consistent with the approved test section. Threading on appurtenances shall not be stained prior to installation, so that the function of the threads is not compromised. After final connections of threaded appurtenances are made, a stain shall be applied in the field according to the manufacturer's instructions to visible portions of the threaded appurtenances. Field spray application must be contained to prevent overspray onto adjacent surfaces and wood posts. Field spray application should not be performed under windy conditions. Following field stain applications, the appearance of all galvanized steel surfaces and appurtenances, shall have a final color that remains consistent with the approved test section.

Stain must be applied uniformly. Irregularities must be corrected according to the stain manufacturer's recommendations.

The stained galvanized steel surfaces and appurtenances must be protected from damage during shipping, handling and installation. Any damage to the stained galvanized steel surfaces and appurtenances must be repaired according to the stain manufacturer's recommendations. The repair must result in a uniform surface appearance.

Stained surfaces must be kept dry for a period of 10 days following the application of stain.

MEASUREMENT AND PAYMENT

PAYMENT

Full compensation for staining galvanized steel surfaces and appurtenances is included in the contract items of work involved and no separate payment will be made therefor.

BID ITEM LIST

03-1A7344

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
41	560248	FURNISH SINGLE SHEET ALUMINUM SIGN (0.063"-UNFRAMED)	SQFT	13		
42	566011	ROADSIDE SIGN - ONE POST	EA	2		
43	568001	INSTALL SIGN (STRAP AND SADDLE BRACKET METHOD)	EA	1		
44	641104	15" PLASTIC PIPE	LF	6		
45	650014	18" REINFORCED CONCRETE PIPE	LF	3,380		
46	650018	24" REINFORCED CONCRETE PIPE	LF	150		
47	700617	DRAINAGE INLET MARKER	EA	35		
48	703533	12" WELDED STEEL PIPE (.250" THICK)	LF	230		
49	719589	MINOR CONCRETE (BACKFILL)	CY	1,260		
50	731504	MINOR CONCRETE (CURB AND GUTTER)	CY	220		
51	731516	MINOR CONCRETE (DRIVEWAY)	CY	60		
52	731623	MINOR CONCRETE (CURB RAMP)	CY	7		
53	022192	CURB RAMP DETECTABLE WARNING SURFACE	SQFT	46		
54 (F)	750001	MISCELLANEOUS IRON AND STEEL	LB	10,547		
55	022193	6" THERMOPLASTIC TRAFFIC STRIPE (RECESSED)	LF	3,240		
56	022194	8" THERMOPLASTIC TRAFFIC STRIPE (RECESSED)	LF	800		
57	022195	THERMOPLASTIC PAVEMENT MARKING (RECESSED)	SQFT	1,520		
58	840581	4" THERMOPLASTIC TRAFFIC STRIPE (RECESSED)	LF	12,300		
59	840661	TWO-COMPONENT PAINT PAVEMENT MARKING	SQFT	910		
60	860090	MAINTAINING EXISTING TRAFFIC MANAGEMENT SYSTEM ELEMENTS DURING CONSTRUCTION	LS	LUMP SUM	LUMP SUM	