

DEPARTMENT OF TRANSPORTATION
DIVISION OF ENGINEERING SERVICES
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August 20, 2009

04-CC,Ala-24-8.2/10.0,0.0/2.7
04-294914
SARRA-P024(030)N
HPLUL-6204(083)N

Addendum No. 3

Dear Contractor:

This addendum is being issued to the contract for CONSTRUCTION ON STATE HIGHWAY IN ALAMEDA AND CONTRA COSTA COUNTIES FROM EAST TEMESCAL SEPARATION TO 0.8 KM EAST OF GATEWAY BLVD.

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, September 16, 2009.

This addendum is being issued to revise the Project Plans, the Notice to Bidders and Special Provisions, the Bid book, and provide a copy of the Information Handout.

Project Plan Sheets 11, 14, 24, 251, 267, 270, 279, 284, 285, 294, 396, 399, 446, 472, 512, 652, 665, 751, 762, 791, 792, 793, 829, 844, 848, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 896, 897, 898, 899, 900, 901, 921, 926, 929, 931, 932, 933, 942, 961 and 1382 are revised. Copies of the revised sheets are attached for substitution for the like-numbered sheets.

Project Plan Sheets 992A, 992B, 992C, 992D, 992E, and 992F are added. Copies of the added sheets are attached for addition to the project plans.

In the Notice to Bidders and Special Provisions, in the "SPECIAL NOTICES," the following Special Notice is added :

"Attention is directed to Section 4, "Beginning of Work, Time of Completion and Liquidated Damages," of these special provisions for revised definition of "working day."

In the Notice to Bidders and Special Provisions, in the "NOTICE TO BIDDERS," the twelfth paragraph is revised as follows:

"Do not bid more than 1,550 working days."

In the Special Provisions, Section 4, "BEGINNING OF WORK, TIME OF COMPLETION, AND LIQUIDATED DAMAGES," the following paragraph is added after the sixth paragraph:

"A working day as defined in Section 8-1.06 of the Standard Specifications is re-defined for this project. The second through fifth paragraphs in Section 8-1.06 shall not apply. Saturdays, legal holidays, and days of inclement weather will be counted as working days."

04-CC,Ala-24-8.2/10.0,0.0/2.7
04-294914
SARRA-P024(030)N
HPLUL-6204(083)N

In the Special Provisions, Section 5-1.08, "AREAS FOR CONTRACTOR'S USE," is revised as attached.

In the Special Provisions, Section 5-1.09, "PAYMENTS," the second paragraph is revised as follows:

"For the purpose of making partial payments pursuant to Section 9-1.06, "Partial Payments," of the Standard Specifications, the amount set forth for the contract items of work hereinafter listed shall be deemed to be the maximum value of the contract item of work which will be recognized for progress payment purposes:

A.	Clearing and Grubbing	\$70,000
B.	Develop Water Supply	\$10,000
C.	Progress Schedule (Critical Path Method)	\$72,000"

In the Special Provisions, Section 5-1.10, "SUPPLEMENTAL PROJECT INFORMATION," item W of the second paragraph is added as follows:

"W. Modification to Water Quality Certification dated June 26, 2009"

In the Special Provisions, Section 5-1.10, "SUPPLEMENTAL PROJECT INFORMATION," item No. 6 of the third paragraph is revised as follows:

"6. Conceptual Design Report for Storm Water Run-On Bypass and Temporary Treatment System for Tunnel Excavation"

In the Special Provisions, Section 5-1.21, "TUNNEL SAFETY ORDERS," the following paragraph is added after the fourth paragraph:

"Prior to performing any tunneling work, all personnel, including State personnel, shall complete a safety training program that communicates the potential health and safety hazards associated with work on the site and instructs the personnel in procedures for doing work safely. The safety training shall be given after acceptance of the Health and Safety Plan by the Engineer. The training shall be provided by the Contractor. The Contractor shall provide a certification of completion of the Safety Training Program to all personnel. Personal protective equipment required by State personnel to inspect the work shall be provided by the Contractor."

In the Special Provisions, Section 8-1.03, "STATE-FURNISHED MATERIALS," items I, "Service cabinet (Type III-AF)," K, "Extinguishable message system (EMS)," and L, "Lamps for vehicular signal" of the second paragraph are deleted.

In the Special Provisions, Section 10-1.01, "ORDER OF WORK," the sixth paragraph is revised as follows:

"Attention is directed to "Temporary Sound Wall" of these special provisions. The temporary sound wall shall be constructed as a first order of work prior to beginning work in the staging area at Portal No. 1."

In the Special Provisions, Section 10-1.01, "ORDER OF WORK," the seventeenth paragraph is revised as follows:

"Attention is directed to "Sound Control Requirements" of these special provisions for requirements regarding baseline ambient sound measurements and continuous sound monitoring during construction. Ventilation fans shall be acoustically insulated or attenuated to meet the sound level requirements specified in "Sound Control Requirements" of these special provisions."

04-CC,Ala-24-8.2/10.0,0.0/2.7
04-294914
SARRA-P024(030)N
HPLUL-6204(083)N

In the Special Provisions, Section 10-1.01, "ORDER OF WORK," the twenty-first paragraph is deleted.

In the Special Provisions, Section 10-1.01, "ORDER OF WORK," the twenty-fourth paragraph is revised as follows:

"The realignment and paving of the eastbound Bore #2 approach shall be constructed within 60 days after the 4th Bore tunnel is open."

In the Special Provisions, Section 10-1.01, "ORDER OF WORK," the thirty-fourth paragraph is revised as follows:

"The work shall be performed in conformance with the stages of construction shown on the plans. Nonconflicting work in subsequent stages may proceed concurrently with work in preceding stages upon approval by the Engineer, provided satisfactory progress is maintained in the preceding stages of construction."

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

"Attention is directed to "Temporary Engineer Trailer," of these special provisions. The Engineer trailers shall be installed as a first order of work. The Engineer trailers shall be fully operational within 60 days of contract approval.

Attention is directed to "Migratory Bird Treaty Act," of these special provisions for the nesting period and the requirements for the protection of migratory birds.

Attention is directed to "Paleontological Resources," of these special provisions regarding the requirements prior to beginning any excavation work for portals and tunnel.

Attention is directed to "Water Pollution Control," of these special provisions. Submitting the Storm Water Pollution Prevention Plan (SWPPP) shall be a first order of work.

At those locations where highway planting and irrigation systems are proposed along eastbound Route 24, Gateway Blvd off-ramp, the work shall begin no later than 200 working days after contract approval."

In the Special Provisions, Section 10-1.02, "HEALTH AND SAFETY PLAN," subsection "GENERAL," the following subheading "Safety Training" is added after the subheading "Definitions":

"Safety Training

Prior to performing the work that may expose personnel to hazardous substances, all personnel, including State personnel, shall complete a safety training program that communicates the potential health and safety hazards associated with work on the site and instruct the personnel in procedures for doing the work safely. The level of training provided shall be consistent with the personnel's job function and conform to CAL-OSHA regulations. The safety training shall be given after acceptance of the Health and Safety Plan by the Engineer. The training, including subsequent training required until completion of the project, shall be provided by the Contractor. The Contractor shall provide a certification of completion of the Safety Training Program to all personnel. Personal protective equipment required by State personnel to inspect the work shall be provided by the Contractor."

In the Special Provisions, Section 10-1.03, "WATER POLLUTION CONTROL," is revised as attached.

In the Special Provisions, Section 10-1.05, "TEMPORARY STORM WATER RUN-ON BYPASS AND EXCAVATION DEWATERING," is revised as attached.

04-CC,Ala-24-8.2/10.0,0.0/2.7
04-294914
SARRA-P024(030)N
HPLUL-6204(083)N

In the Special Provisions, Section 10-1.22, "PROGRESS SCHEDULE (CRITICAL PATH METHOD)," subsection "BASELINE SCHEDULE," the ninth paragraph is revised as follows:

"The Engineer will be allowed 21 days to review and accept or reject the baseline project schedule submitted. Rejected schedules shall be resubmitted to the Engineer within 1 week, at which time a new 2 week review period by the Engineer will begin. The baseline schedule submittal is not complete until the scheduling equipment and software are provided."

In the Special Provisions, Section 10-1.29, "MAINTAINING TRAFFIC," the following paragraphs are added after the seventeenth paragraph:

"When closure of several on and off ramps are required, adjacent ramps in the same direction of travel, servicing 2 consecutive local street shall not be closed simultaneously unless directed by the Engineer. During the annual Shakespeare Festival, which takes place near the westbound Gateway on-ramp, and is scheduled to occur from June 1 to October 31 of each year, the following requirements will apply seven days a week:

- a) No construction activities are permitted to be performed from stations "A7" 50+00 to "A7" 60+00 on the freeway or ramps until 11:30 P.M.
- b) No on-ramp closure to westbound Route 24 at Gateway Blvd will be permitted until 11:30 P.M.
- c) No off-ramp closure from westbound Route 24 at Gateway Blvd will be permitted until 9:30 P.M."

In the Special Provisions, Section 10-1.29, "MAINTAINING TRAFFIC," the following paragraphs are added after the nineteenth paragraph:

"Contractor shall inform the Engineer and place warning signs on the shoulder, 7 days in advance of any shoulder closure affecting bicycle traffic on the westbound or eastbound shoulder from Fish Ranch Road to Camino Pablo."

In the Special Provisions, Section 10-1.29, "MAINTAINING TRAFFIC," Charts No. 1, 2, 2a, 3, 4, 4a, 5, 6, 7, 7a, 8, 9, 10, 11, 12, 12a, 13, 13a, 14 and 15 are revised as attached.

In the Special Provisions, Section 10-1.30, "CLOSURE REQUIREMENTS AND CONDITIONS," subsection "CLOSURE SCHEDULE," the first paragraph is revised as follows:

"By noon on Monday, the Contractor shall electronically submit on the Department's "Lane Closure System" the planned closure for the following week period, defined as Sunday noon through the following Sunday noon for the Engineer's review. Information and coordination for accessing the "Lane Closure System" on the internet shall be done by the Engineer. Closures involving work (temporary barrier placement and paving operations) that will reduce horizontal clearances, traveled way inclusive of shoulders, to 2 lanes or less shall be submitted not less than 25 days and not more than 125 days before the anticipated start of operation. Closures involving work (pavement overlay, overhead sign installation, falsework and girder erection) that will reduce the vertical clearances available to the public, shall be submitted not less than 25 days and not more than 125 days before the anticipated start of operation."

In the Special Provisions, Section 10-1.37, "EXISTING HIGHWAY FACILITIES," subsection "REMOVE POP-UP SYSTEM," is added after subsection "REMOVE CONCRETE" as attached.

In the Special Provisions, Section 10-1.63, "CONSTRUCT CONCRETE PAVEMENT (RAPID STRENGTH CONCRETE)," subsection "MEASUREMENT AND PAYMENT," the first paragraph is revised as follows:

"Construct concrete pavement (Rapid Strength Concrete) will be measured and paid for in the same manner specified for concrete pavement in Sections 40-1.13, "Measurement," and 40-1.14, "Payment," of the Standard Specifications, and these special provisions."

04-CC,Ala-24-8.2/10.0,0.0/2.7
04-294914
SARRA-P024(030)N
HPLUL-6204(083)N

In the Special Provisions, Section 10-1.63, "CONSTRUCT CONCRETE PAVEMENT (RAPID STRENGTH CONCRETE)," subsection "MEASUREMENT AND PAYMENT," the fifth paragraph is revised as follows:

"Concrete pavement will be measured by the cubic meter in conformance with the provisions in Section 40-1.13, "Measurement," of the Standard Specifications. No deduction will be made for the volume of epoxy-coated dowel bars, epoxy-coated tie bars and, when used, tie bar baskets with fasteners and dowel bar baskets with fasteners, in the concrete pavement. When a test strip conforms to the specifications for concrete pavement and remains a part of the project paving surface, the concrete will be measured and paid for as concrete pavement."

In the Special Provisions, Section 10-1.75, "SHOTCRETE," the first paragraph is revised as follows:

"Shotcrete shall conform to the provisions in Section 51, "Concrete Structures," and Section 53, "Shotcrete," of the Standard Specifications and these special provisions."

In the Special Provisions, Section 10-2.04, "HIGHWAY PLANTING," subsection "POT PLANTS," the first paragraph is revised as follows:

"Pot plants shall be furnished in containers with a minimum size of 102 mm (diameter) by 356 mm (depth). Pot plant containers made of biodegradable material shall not be used. All pot plants shall be removed from their containers at the time of planting."

In the Special Provisions, Section 10-2.04, "HIGHWAY PLANTING," subsection "PLANT ESTABLISHMENT WORK," the eleventh paragraph is revised as follows:

"Disposal of mowed material shall be disposed of outside the highway right of way in conformance with the provisions in Section 7-1.13 of the Standard Specifications."

In the Special Provisions, Section 12-1.07, "PROGRESS SCHEDULE," the first paragraph is revised as follows:

"A progress schedule shall be submitted for the building and tunnel work in accordance with the requirements in "Progress Schedule (Critical Path Method)," of these special provisions."

In the Special Provisions, Section 12-2.02, "ASBESTOS ABATEMENT," subsection "GENERAL," sub-subsection "NOTIFICATIONS, COMMUNICATIONS AND POSTINGS," the second paragraph is revised as follows:

"Prior to performing operations involving the removal of material containing asbestos, the Contractor shall provide written notification to all federal, state and local agencies that regulate the handling and disposal of material containing asbestos. A copy of the notification shall be sent to the Engineer before start of work."

In the Special Provisions, Section 12-2.03, "LEAD-RELATED CONSTRUCTION WORK," subsection "GENERAL," sub-subsection "NOTIFICATION," the second paragraph is revised as follows:

"Prior to performing operations involving the removal of lead-based material, the Contractor shall provide written notification to all federal, state and local agencies that regulate the removal, handling, transporting and disposal of lead in construction. A copy of the notification shall be sent to the Engineer before start of work."

04-CC,Ala-24-8.2/10.0,0.0/2.7
04-294914
SARRA-P024(030)N
HPLUL-6204(083)N

In the Special Provisions, Section 12-8.01, "HINGED DOORS," subsection "PART 2 - PRODUCTS," the seventh paragraph is revised as follows:

"Aluminum Frame: Aluminum frame shall be manufactured by aluminum door manufacturer of clear anodized thermally treated and artificially aged 6061 or 6063 aluminum alloy extrusions with minimum nominal wall thickness of 3.5 mm. Frame shall be reinforced to receive hardware."

In the Special Provisions, Section 12-10.06, "TOILET AND SHOWER ACCESSORIES," subsection "PART 1 - GENERAL," sub-subsection "QUALITY ASSURANCE" is added after sub-subsection "SUBMITTALS" as follows:

"QUALITY ASSURANCE

Regulatory Requirements: Accessibility products shall conform to Accessibility to Public Buildings, Public Accommodations, Commercial Buildings and Publicly Funded Housing, 24 CA Code of Regs Pt 2 §§ 1101B-1135B. Grab bars and folding shower seats shall conform to grab bars, tub and shower seats, and 24 CA Code of Regs Pt 2 § 1115B.7.

Certificates of Compliance: Certificate of Compliance shall be furnished for grab bars and folding shower seat in conformance with the provisions in Section 6-1.07, "Certificates of Compliance," of the Standard Specifications. Certificate of Compliance shall include written confirmation that the grab bars and folding shower seat, backing, mounting devices, fasteners and their installation conforms to the requirements in Structural strength, 24 CA Code of Regs Pt 2 § 1115B.7.2."

In the Special Provisions, Section 12-17.202, "TUNNEL EXCAVATION AND SUPPORT," subsection "PART 1 - GENERAL," sub-subsection "DEFINITIONS", the following paragraph is added before the first paragraph as follows:

"Multiple Ground Class Condition: Occurrence of more than one ground class within Bore No. 4 or cross passage top heading, bench and invert over one or more advance lengths."

In the Special Provisions, Section 12-17.202, "TUNNEL EXCAVATION AND SUPPORT," subsection "PART 1 - GENERAL," sub-subsection "DEFINITIONS", the third paragraph is revised as follows:

"Standard Support: Support measures that apply to the range of ground conditions corresponding to a ground class or multiple ground class condition."

In the Special Provisions, Section 12-17.202, "TUNNEL EXCAVATION AND SUPPORT," subsection "PART 1 - GENERAL," sub-subsection "DEFINITIONS", the thirteenth paragraph is revised as follows:

"Heading: The localized area of the Bore No. 4 mined tunnel top heading or cross passages between the Bore No. 4 mined tunnel and Bore No. 3 where SEM excavation is taking place or is to take place, and where standard support measures are being installed or are to be installed."

In the Special Provisions, Section 12-17.202, "TUNNEL EXCAVATION AND SUPPORT," subsection "PART 1 - GENERAL," sub-subsection "DEFINITIONS", the following paragraph is added after the thirty-third paragraph as follows:

"Mud Mat: Temporary concrete working slab used for invert protection from equipment traffic and water infiltration."

04-CC,Ala-24-8.2/10.0,0.0/2.7
04-294914
SARRA-P024(030)N
HPLUL-6204(083)N

In the Special Provisions, Section 12-17.202, "TUNNEL EXCAVATION AND SUPPORT," subsection "PART 1 - GENERAL," sub-subsection "SUBMITTALS," subheading "Working Drawings," the first paragraph is revised as follows:

"Working drawings shall include complete details, information, drawings, and substantiating calculations of proposed materials, facilities, and equipment to be used and methods of construction. The Contractor shall allow the Engineer thirty working days for approval or return for correction of each submittal or re-submittal. The working drawings shall consist of work plans for the SEM related activities for construction of the Bore No. 4 mined tunnel, the cross passages between the Bore No. 4 mined tunnel and Bore No. 3, the niches of the Bore No. 4 mined tunnel, and the breakthroughs at retaining walls 5W and 5E including the following:"

In the Special Provisions, Section 12-17.202, "TUNNEL EXCAVATION AND SUPPORT," subsection "PART 1 - GENERAL," sub-subsection "SUBMITTALS," subheading "Working Drawings," the ninth subparagraph of the first paragraph is revised as follows:

"Details and locations where mud mat and any other measure will be used at the top heading invert and bench invert to maintain stability of the invert for constructability and prevent water infiltration."

In the Special Provisions, Section 12-17.202, "TUNNEL EXCAVATION AND SUPPORT," subsection "PART 1 - GENERAL," sub-subsection "DELIVERY, STORAGE AND HANDLING," the first subparagraph of the first paragraph is revised as follows:

"Shotcrete shall be available at each excavation face during the entire excavation period to complete each advance length."

In the Special Provisions, Section 12-17.202, "TUNNEL EXCAVATION AND SUPPORT," subsection "PART 1 - GENERAL," sub-subsection "SEQUENCING AND SCHEDULING," the following paragraph is added after the second paragraph:

"Selection of standard and additional support, for ground classes and multiple ground class conditions, shall conform to the criteria shown on the plans and in the GBR."

In the Special Provisions, Section 12-17.202, "TUNNEL EXCAVATION AND SUPPORT," subsection "PART 4 - MEASUREMENT AND PAYMENT," the third paragraph is revised as follows:

"The contract prices paid per meter for tunnel excavation and support of the locations and categories listed in the Engineer's Estimate shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the work involved in tunnel excavation and support, complete in place, including excavation, over-excavation, geologic overbreak, niches, widening and breakthroughs at the cross passages from the Bore No. 4 mined tunnel, excavation and support of multiple ground class conditions, rock dowels, spiles, face dowels, grouted steel pipes, lattice girders, bore holes for probing ahead, drain holes, reinforced shotcrete, bench excavation face support, water control, geologic mapping, swell potential testing, tunnel scanning survey, removal of grouted anchors and providing safety training program and personnel protective equipment to State personnel, as shown on the plans, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer."

04-CC,Ala-24-8.2/10.0,0.0/2.7
04-294914
SARRA-P024(030)N
HPLUL-6204(083)N

In the Special Provisions, Section 12-17.202, "TUNNEL EXCAVATION AND SUPPORT," subsection "PART 4 – MEASUREMENT AND PAYMENT," the sixth paragraph is revised as follows:

"The contract prices paid per meter for cross passage excavation and initial support of the categories listed in the Engineer's Estimate shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the work involved in cross passage excavation and initial support, complete in place, including excavation, blasting, excavation and support of multiple ground class conditions, over-excavation, geologic overbreak, niches, rock dowels, spiles, lattice girders, reinforced shotcrete, water control, geologic mapping, and tunnel scanning survey, as shown on the plans, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer."

In the Special Provisions, Section 12-17.203, "DISPOSAL OF EXCAVATED MATERIALS," subsection "PART 1 – GENERAL," sub-subsection "SUMMARY," subheading "Related Sections," the fourth paragraph is revised as follows:

"Attention is directed to "Water Pollution Control" and "Temporary Storm Water Run-on Bypass and Excavation Dewatering" of these special provisions for requirements relating to the handling and treatment of water that travels through stockpiled excavated materials."

In the Special Provisions, Section 12-17.203, "DISPOSAL OF EXCAVATED MATERIALS," subsection "PART 1 – GENERAL," sub-subsection "REFERENCES," the following paragraph is added after the second paragraph:

"Bay Area Air Quality Management District, Regulation 8, Rule 40"

In the Special Provisions, Section 12-17.203, "DISPOSAL OF EXCAVATED MATERIALS," subsection "PART 1 – GENERAL," sub-subsection "SYSTEM DESCRIPTION," the first paragraph is revised as follows:

"Materials from the excavation of Bore No. 4 tunnel and cross passages, except for the volume of suitable excavated material required for construction outside of the portals to permanent grading limits, shall become the property of the Contractor and shall be disposed of outside the highway right of way in accordance with the requirements in Section 7-1.13, "Disposal of Material Outside the Highway Right-of-Way," of the Standard Specifications. Suitable excavated material shall not be contaminated excavated material and shall meet the requirements for its intended use specified in the Standard Specifications and these special provisions. Suitable material has average concentrations of metals and contaminants of concern, as measured by the 95% Upper Confidence Limit of the mean, that are below the San Francisco Bay Regional Water Quality Control Board's Table A Commercial Environmental Screening Levels or within background concentrations for the site."

04-CC,Ala-24-8.2/10.0,0.0/2.7
04-294914
SARRA-P024(030)N
HPLUL-6204(083)N

In the Special Provisions, Section 12-17.203, "DISPOSAL OF EXCAVATED MATERIALS," subsection "PART 1 – GENERAL," sub-subsection "SYSTEM DESCRIPTION," the second paragraph is revised as follows:

"The Contractor shall be responsible for selecting appropriate disposal site(s) based on the material classification and establishing the haul routes in accordance with the limitations specified herein, in "Order of Work" of these special provisions, and in the Standard Specifications. Possible disposal sites for considerations by the Contractor are:

- A. Port of Oakland
Telephone: (510) 627-1184
- B. City of Oakland
Telephone: (510) 238-7125"

In the Special Provisions, Section 12-17.203, "DISPOSAL OF EXCAVATED MATERIALS," subsection "PART 1 – GENERAL," sub-subsection "SYSTEM DESCRIPTION," the following paragraph is added after the second paragraph:

"No agreement has been made between the Department and these entities, and the Department does not, expressly or by implication, warrant that these entities will accept excavated materials."

In the Special Provisions, Section 12-17.203, "DISPOSAL OF EXCAVATED MATERIALS," subsection "PART 3 – EXECUTION," sub-subsection "GENERAL," the second paragraph is revised as follows:

"Contaminated excavated material shall be identified by the Contractor and test data and analysis results shall be submitted to the Engineer for review and verification. The Engineer may accept the analysis results provided by the Contractor or verify the results by collecting additional samples and performing independent testing. Upon submittal of the test results, the Contractor shall allow the Engineer 10 days for review and verification."

In the Special Provisions, Section 12-17.205, "TUNNEL UNDERDRAINS," subsection "PART 4 – MEASUREMENT AND PAYMENT," the first paragraph is revised as follows:

"The contract prices paid per meter for plastic pipe underdrain (tunnel) of the sizes listed in the Engineer's Estimate shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in tunnel underdrain, including installing cap for upstream end of tunnel underdrain, complete in place, including filter fabric, concrete bed, drain rock/gravel and digital video camera inspection, as shown on the plans, as specified in these special provisions, and as directed by the Engineer, including maintenance during construction. Full compensation for excavation where required to install tunnel underdrains and bar steps in manholes shall be considered as included in the contract prices paid per meter of tunnel final lining types and no separate payment will be made therefor."

In the Special Provisions, Section 12-17.206, "BLASTING," subsection "PART 1 – GENERAL," sub-subsection "SYSTEM DESCRIPTION," the following paragraph is added before the first paragraph:

"No more than 10 percent by bank volume of the Bore No. 4 top heading, bench, invert and cross passages shall be excavated using blasting."

04-CC,Ala-24-8.2/10.0,0.0/2.7
04-294914
SARRA-P024(030)N
HPLUL-6204(083)N

In the Special Provisions, Section 12-17.206, "BLASTING," subsection "PART 1 – GENERAL," subsection "SCHEDULING AND SEQUENCING," the second paragraph is revised as follows:

"Closure of Bore No. 3 will be required for each blast and blasting operations shall be scheduled in conformance with "Maintaining Traffic" of these special provisions."

In the Special Provisions, Section 12-17.206, "BLASTING," subsection "PART 1 – GENERAL," sub-subsection "SCHEDULING AND SEQUENCING," the third paragraph is deleted.

In the Special Provisions, Section 12-17.301, "TUNNEL FINAL LINING," the subsection title "PART 1 – GENERAL," is added before the sub-subsection title "SUMMARY."

In the Special Provisions, Section 12-17.301, "TUNNEL FINAL LINING," subsection "SUBMITTALS," subheading "Working Drawings," the following paragraph is added after the first subparagraph of the first paragraph:

"Working drawings of the final lining formwork shall include lift drawings detailing and locating all embedded items including pipes, inserts, sleeves, pull boxes and conduits, and all recesses, niches, openings and surface mounted items required for utility, systems, mechanical, electrical and architectural installations."

In the Special Provisions, Section 12-17.301, "TUNNEL FINAL LINING," subsection "PART 2 – PRODUCTS," sub-subsection "MATERIALS," the second paragraph is revised as follows:

"The concrete of the Bore No. 4 final lining arch and sidewalls shall have monofilament micro polypropylene fibers uniformly added to the mix with the following properties.

Material: 100 percent virgin polypropylene
Tensile strength: 400 MPa average
Modulus of elasticity: 4000 MPa
Thickness: 6-8 denier (30-40 micron)
Length: 19 mm maximum
Dosage: 3 kg/cubic meter"

In the Special Provisions, Section 12-17.301, "TUNNEL FINAL LINING," subsection "PART 4 – MEASUREMENT AND PAYMENT," the following paragraph is added after the second paragraph:

"Full compensation for the excavation for the footings of final linings Types A and B, the additional invert excavation required for final lining Type B, and the excavation for the invert slab of final lining Type C2 as indicated on the plans, including all labor, materials, tools, equipment, incidentals, and all of the work involved in excavating, shoring and forming as required, and backfill of overbreak, shall be considered as included in the contract prices paid per meter for the various tunnel final lining types listed in the Engineer's Estimate and no separate payment will be made therefor."

04-CC,Ala-24-8.2/10.0,0.0/2.7
04-294914
SARRA-P024(030)N
HPLUL-6204(083)N

In the Special Provisions, Section 12-17.302, "SHOTCRETE TUNNEL LINING," subsection "PART 1 – GENERAL," sub-subsection "REFERENCES," the first paragraph is revised as follows:

"American Concrete Institute (ACI):

ACI 214, Recommended Practice for Evaluation of Strength Test Results of Concrete
ACI 301, Specifications for Structural Concrete for Buildings
ACI 506R, Guide to Shotcrete
ACI 506.2, Specification for Shotcrete
ACI Shotcrete Nozzleman Certification Program
ACI 506.4R, Guide for the Evaluation of Shotcrete"

In the Special Provisions, Section 12-17.302, "SHOTCRETE TUNNEL LINING," subsection "PART 1 – GENERAL," sub-subsection "SUBMITTALS," subheading "Working Drawings," the following paragraph is added after the eleventh subparagraph of the first paragraph:

"Lattice girder shop welding quality control plan."

In the Special Provisions, Section 12-17.302, "SHOTCRETE TUNNEL LINING," subsection "PART 1 – GENERAL," sub-subsection "SUBMITTALS," subheading "Working Drawings," the following paragraph is added after the seventeenth subparagraph of the first paragraph:

"ACI Shotcrete Nozzleman Certification Program modified to meet the requirements specified herein."

In the Special Provisions, Section 12-17.302, "SHOTCRETE TUNNEL LINING," subsection "PART 1 – GENERAL," sub-subsection "QUALITY ASSURANCE," subheading "Qualifications," the first paragraph is revised as follow:

"Shotcrete nozzlemen shall be certified according to ACI shotcrete nozzlemen certification program, modified to require fiber reinforced shotcrete application in the orientations and geometric configuration required to perform work in Bore No. 4 and cross passages using equipment to be used in Bore No. 4 and the cross passages. Nozzlemen shall have previous experience or training in the application of shotcrete on at least one project of comparable size."

In the Special Provisions, Section 12-17.302, "SHOTCRETE TUNNEL LINING," subsection "PART 2 – PRODUCTS," sub-subsection "MATERIALS," subheading "Lattice Girders," the third paragraph is revised as follow:

"Welding process shall conform to AWS for gas metal arc welding (GMAW). All welders shall be certified in accordance with AWS D1.4. All fillet welds of lacing elements shall be 6 mm minimum in size and shall run parallel to the main bars with a minimum length of 25 mm."

In the Special Provisions, Section 12-17.306, "TEMPORARY RAILING (TYPE K) TUNNEL," the section title is revised to "TEMPORARY RAILING (CROSS TUNNEL PASSAGE).

In the Special Provisions, Section 12-17.306, "TEMPORARY RAILING (TYPE K) TUNNEL," subsection "PART 1 – GENERAL," the first paragraph is revised as follows:

"Temporary railing (cross tunnel passage) shall be placed at Bore No. 3 breakthroughs as shown on the plans or where ordered by the Engineer and shall be in conformance with Section 12-3.08, "Temporary Railing (Type K)" of the Standard Specifications and these special provisions."

04-CC,Ala-24-8.2/10.0,0.0/2.7
04-294914
SARRA-P024(030)N
HPLUL-6204(083)N

In the Special Provisions, Section 12-17.306, "TEMPORARY RAILING (TYPE K) TUNNEL," subsection "PART 4 – MEASUREMENT AND PAYMENT," the first paragraph is revised as follows:

"The contract price paid per meter for temporary railing (cross tunnel passage) shall include full compensation for furnishing all labor, materials (including reflectors and closure plates), tools, equipment and incidentals, and for doing all the work involved in furnishing, placing, maintaining, repairing, replacing, and removing the temporary railing (cross tunnel passage) and closure plate, including drilling holes and bonding threaded rods or dowels when required, removing threaded rods or dowels and filling the drilled holes with mortar, and moving and replacing removable panels as required to perform the Bore No. 3 breakthrough work, complete in place, as shown on the plans, and for all the work involved in utilizing the barriers during the Bore No. 3 breakthroughs as specified in these special provisions, and as directed by the Engineer."

In the Special Provisions, Section 12-17.902, "METAL PANELS," subsection "PART 2 – PRODUCTS," sub-subsection "PORCELAIN ENAMELED PANELS," the first paragraph is revised as follows:

"Porcelain enameled metal panels shall be fabricated from 2.5-2.65 mm (11 gage) vitreous enameling iron (VIT), a special purpose enameling steel that conforms to ASTM Designation: A 424, Type II."

In the Bid book, in the "Bid Item List," Items 179 and 216 are revised, Items 328, and 329 are added and Item 327 is deleted as attached.

To Bid book holders:

Replace pages 11, 13, and 19 of the "Bid Item List" in the Bid book with the attached revised pages 11, 13, and 19 of the Bid Item List. The revised Bid Item List is to be used in the bid.

Attached is a copy of the Information Handout Geotechnical Baseline Report (GBR) dated June 2009 and Modification to Water Quality Certification dated June 26, 2009.

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.

Addendum No. 3
Page 13
August 20, 2009

04-CC,Ala-24-8.2/10.0,0.0/2.7
04-294914
SARRA-P024(030)N
HPLUL-6204(083)N

This addendum, attachments and the modified wage rates are available for the Contractors' download on the Web site:

http://www.dot.ca.gov/hq/esc/oe/project_ads_addenda/04/04-294914

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,

ORIGINAL SIGNED BY

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

Attachments

5-1.08 AREAS FOR CONTRACTOR'S USE

Attention is directed to the provisions in Section 7-1.19, "Rights in Land and Improvements," of the Standard Specifications and these special provisions.

Areas available for the exclusive use of the Contractor are designated in these special provisions. Use of the Contractor's work areas and other State-owned property shall be at the Contractor's own risk, and the State shall not be held liable for damage to or loss of materials or equipment located within these areas.

The following State-owned property shall be available for the Contractor's use:

Parcel DD-039591-01-01, Area approximately 5384 Square meters. Located at the intersection of 6th St and Brush St Oakland CA.

Do not use this parcel to store or transfer excavated, contaminated or hazardous materials.

Above parcel, if secured by the contractor, will be used in connection with this project only and no other use of the property will be allowed.

The Contractor shall obtain encroachment permits prior to occupying State-owned parcels outside the contract limits. The required encroachment permits may be obtained from the Department of Transportation, Permit Engineer, 111 Grand Ave 6th floor Oakland CA, 94623 Obtain a no fee encroachment permit for this parcel within 120 days of contract approval.

Residence trailers will not be allowed within the highway right of way, except that one trailer will be allowed for yard security purposes.

The Contractor shall remove equipment, materials, and rubbish from the work areas and other State-owned property which the Contractor occupies. The Contractor shall leave the areas in a presentable condition in conformance with the provisions in Section 4-1.02, "Final Cleaning Up," of the Standard Specifications.

The Contractor shall secure, at the Contractor's own expense, areas required for plant sites, storage of equipment or materials or for other purposes, if sufficient area is not available to the Contractor within the contract limits, or at the sites designated in these special provisions outside the contract limit.

10-1.03 WATER POLLUTION CONTROL

GENERAL

Water pollution control work shall conform to the provisions in Section 7-1.01G, "Water Pollution," of the Standard Specifications, section of these special provisions entitled "Relations With California Regional Water Quality Control Board," and these special provisions.

The Contractor may obtain other National Pollutant Discharge Elimination System (NPDES) permits that apply to activities and mobile operations within or outside of the project limits including hot mix asphalt batch plants, material borrow areas, concrete plants, staging areas, storage yards, or access roads.

The Contractor shall perform water pollution control work in conformance with the requirements in the "Storm Water Pollution Prevention Plan (SWPPP) and Water Pollution Control Program (WPCP) Preparation Manual" and its addenda in effect on the day the Notice to Contractors is dated. This manual is referred to as the "Preparation Manual." Copies of the Preparation Manual may be obtained from:

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 references for performing water pollution control work are available from the Department's Construction Storm Water and Water Pollution Control web site at:

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

Before the start of job site activities, the Contractor shall provide training for project managers, supervisory personnel, and employees involved with water pollution control work. The training shall include:

- A. Rules and regulations
- B. Implementation and maintenance for:
 - 1. Temporary Soil Stabilization
 - 2. Temporary Sediment Control
 - 3. Tracking Control
 - 4. Wind Erosion Control

The Contractor shall designate in writing a Water Pollution Control Manager (WPCM). The Contractor shall submit a statement of qualifications describing the training, work history, and expertise of the proposed WPCM. The qualifications shall include either:

- A. A minimum of 24 hours of Department approved storm water management training described at Department's Construction Storm Water and Water Pollution Control web site.
- B. Certification as a Certified Professional in Erosion and Sediment Control (CPESC).

The WPCM shall be:

- A. Responsible for water pollution control work.
- B. The primary contact for water pollution control work.
- C. Have authority to mobilize crews to make immediate repairs to water pollution control practices.

The Contractor may designate one manager to prepare the SWPPP and a different manager to implement the plan. The WPCP preparer shall meet the training requirements for the WPCM.

STORM WATER POLLUTION PREVENTION PLAN

The Contractor shall submit a Storm Water Pollution Prevention Plan (SWPPP) to the Engineer for approval. The SWPPP shall conform to the requirements in the Preparation Manual, the NPDES permit, and these special provisions. The SWPPP shall be submitted in place of the water pollution control program required by the provisions in Section 7-1.01G, "Water Pollution," of the Standard Specifications.

The SWPPP shall include water pollution control practices:

- A. For storm water and non-storm water from areas outside of the job site related to construction activities for this contract such as:
 - 1. Staging areas.
 - 2. Storage yards.
 - 3. Access roads.
- B. Appropriate for each season as described in "Implementation Requirements" of these special provisions.
- C. For activities or mobile operations related to all NPDES permits.

The SWPPP shall include a schedule that:

- A. Describes when work activities that could cause water pollution will be performed.
- B. Identifies soil stabilization and sediment control practices for disturbed soil area.
- C. Includes dates when these practices will be 25, 50, and 100 percent complete.
- D. Shows 100 percent completion of these practices before the rainy season.

The SWPPP shall include the following temporary water pollution control practices and their associated contract items of work as shown on the plans or specified in these special provisions:

- A. Temporary Soil Stabilization
 - 1. Temporary Hydraulic Mulch (Bonded Fiber Matrix)
- B. Temporary Sediment Control
 - 1. Temporary Silt Fence
 - 2. Temporary Fiber Rolls
- C. Tracking Control
 - 1. Street Sweeping
 - 2. Temporary Construction Entrance
- D. Wind Erosion Control
 - 1. Construction Site Management
- E. Non-Storm Water Management
 - 1. Construction Site Management
- F. Waste Management and Materials Pollution Control
 - 1. Construction Site Management
 - 2. Temporary Concrete Washout Facility (Portable)

Within 20 days after contract approval, the Contractor shall submit 3 copies of the SWPPP to the Engineer. The Contractor shall allow 30 days for the Engineer's review. If revisions are required, the Engineer will provide comments and specify the date that the review stopped. The Contractor shall revise and resubmit the SWPPP within 15 days of receipt of the Engineer's comments. The Engineer's review will resume when the complete SWPPP is resubmitted. When the Engineer approves the SWPPP, the Contractor shall submit 4 copies of the approved SWPPP to the Engineer. After approval, the Engineer will submit one copy of the approved SWPPP to the San Francisco Bay RWQCB for their review and comment. If the San Francisco Bay RWQCB provides comments to the SWPPP, the Contractor shall amend the SWPPP. Construction activities shall begin no sooner than 30 days after the Engineer approves the SWPPP. If the Engineer fails to complete the review within the time allowed and if, in the opinion of the Engineer, completion of the work is delayed or interfered with because of the Engineer's or the RWQCB's review, the Contractor will be compensated for resulting losses, and an extension of time will be granted, as provided for in Section 8-1.09, "Right of Way Delays," of the Standard Specifications.

The SWPPP shall include a copy of the following permits:

1. The US Army Corps of Engineers
2. RWQCB 401 Certification
3. Fish and Game.

The Contractor shall not perform work that may cause water pollution until the SWPPP has been approved by the Engineer. The Engineer's review and approval shall not waive any contract requirements and shall not relieve the Contractor from complying with Federal, State and local laws, regulations, and requirements.

The Contractor shall amend the SWPPP annually and shall resubmit it to the Engineer by August 15.

If there is a change in construction schedule or activities, the Contractor shall prepare an amendment to the SWPPP to identify additional or revised water pollution control practices. The Contractor shall submit the amendment to the Engineer for review within a time agreed to by the Engineer not to exceed the number of days specified for the initial submittal of the SWPPP. The Engineer will review the amendment within the same time allotted for the review of the initial submittal of the SWPPP.

If directed by the Engineer or requested in writing by the Contractor and approved by the Engineer, changes to the water pollution control work specified in these special provisions will be allowed. Changes may include addition of new water pollution control practices. The Contractor shall incorporate these changes in the SWPPP. Additional water pollution control work will be paid for as extra work in accordance with Section 4-1.03D, "Extra Work," of the Standard Specifications.

The Contractor shall keep a copy of the approved SWPPP at the job site. The SWPPP shall be made available when requested by a representative of the Regional Water Quality Control Board, State Water Resources Control Board, United States Environmental Protection Agency, or the local storm water management agency. Requests from the public shall be directed to the Engineer.

SAMPLING AND ANALYSIS

The Contractor shall include a Sampling and Analysis Plan (SAP) in the SWPPP to monitor the effectiveness of the water pollution control practices. The Contractor shall prepare the SAP in conformance with the Preparation Manual.

The Contractor shall designate trained personnel to collect water quality samples. The personnel and training shall be documented in the SAP. Training shall consist of the following elements:

- A. SAP review,
- B. Health and safety review, and
- C. Sampling simulations.

In the SAP the Contractor shall describe the following water quality sampling procedures:

- A. Sampling preparation,
- B. Collection,
- C. Quality assurance and quality control,
- D. Sample labeling,
- E. Collection documentation,
- F. Sample shipping,
- G. Chain of custody,
- H. Sample numbering, and
- I. Precautions from the construction site health and safety plan.

The Contractor shall document sample collection during precipitation.

Samples to be analyzed in the field shall be taken by the Contractor's designated sampling personnel using collection and analysis methods, and equipment calibration specified by the manufacturer of the sampling equipment. Samples to be analyzed by a laboratory, shall be sampled, preserved, and analyzed by a State-certified laboratory in conformance with the requirements in 40 CFR Part 136, "Guidelines Establishing Test Procedures for the Analysis of Pollutants." The Contractor shall identify the State-certified laboratory, sample containers, preservation requirements, holding times, and analysis method in the SAP. A list of State-certified laboratories that are approved by the Department is available at:

<http://www.dhs.ca.gov/ps/ls/ELAP/html/lablist.htm>

Non-Visible Pollutants

This project has the potential to discharge non-visible pollutants in storm water from the construction site. The Contractor shall include in the SAP a description of the sampling and analysis strategy to be implemented on the project for monitoring non-visible pollutants.

In the SAP the Contractor shall identify potential non-visible pollutants that will be present on the construction site associated with the following:

- A. Construction materials and wastes;
- B. Existing contamination due to historical site usage; or
- C. Application of soil amendments, including soil stabilization products, with the potential to alter pH or contribute toxic pollutants to storm water.

The Contractor shall show the locations planned for storage and use of the potential non-visible pollutants on the SWPPP Water Pollution Control Drawings.

The Contractor shall include in the SAP the following list of conditions that require sampling when observed during a storm water inspection:

- A. Materials or wastes containing potential non-visible pollutants are not stored under watertight conditions.
- B. Materials or wastes containing potential non-visible pollutants are stored under watertight conditions, but:
 - 1. A breach, leakage, malfunction, or spill is observed;
 - 2. The leak or spill has not been cleaned up before precipitation; and
 - 3. There is the potential for discharge of non-visible pollutants to surface waters or drainage system.
- C. Construction activities; such as application of fertilizer, pesticide, herbicide, methyl methacrylate concrete sealant, or non-pigmented curing compound; have occurred during precipitation or within 24 hours preceding precipitation, and have the potential to discharge pollutants to surface waters or drainage system.
- D. Soil amendments, including soil stabilization products, with the potential to alter pH levels or contribute toxic pollutants to storm water runoff have been applied, and have the potential to discharge pollutants to surface waters or drainage system (unless independent test data are available that demonstrate acceptable concentrations of non-visible pollutants in the soil amendment).
- E. Storm water runoff from an area contaminated by historical usage of the site has the potential to discharge pollutants to surface waters or drainage system.

The Contractor shall describe in the SAP the schedule for collecting a sample downhill from each non-visible pollutant source and an uncontaminated control sample, during the first 2 hours of discharge from precipitation during daylight hours that result in enough discharge for sample collection. If discharge flows to the non-visible pollutant source, a sample shall be collected immediately downhill from where the discharge enters the Department's right of way. If precipitation occurs again after at least 72 hours of dry weather the Contractor shall take new samples.

In the SAP the Contractor shall identify sampling locations for collecting downstream and control samples, and the reason for their selection. The control sampling location shall be selected so the sample does not come into contact with materials, wastes or areas associated with potential non-visible pollutants or disturbed soil areas. The Contractor shall show non-visible pollutant sampling locations on the SWPPP Water Pollution Control Drawings.

The Contractor shall identify in the SAP the analytical method to be used for downhill and control samples for potential non-visible pollutants on the project.

Analytical Results and Evaluation

The Contractor shall submit a hard copy and electronic copy of water quality analytical results, and quality assurance and quality control data to the Engineer within 5 days of sampling for field analyses, and within 30 days for laboratory analyses. The Contractor shall also provide an evaluation of whether the downhill samples show levels of the tested parameter higher than in the control sample. If downhill or downstream samples show increased levels, the Contractor will assess the water pollution control measures, site conditions, and surrounding influences to determine the probable cause for the increase. As determined by the assessment, the Contractor will repair or modify water pollution control measures to address increases and amend the SWPPP as necessary. Electronic results (in one of the following file formats: .xls, .txt, .csv, .dbs, or .mdb) shall have the following information:

- A. Sample identification number.
- B. Contract number.
- C. Constituent.
- D. Reported value.
- E. Analytical method.
- F. Method detection limit.
- G. Reported limit.

The Contractor shall maintain the water quality sampling documentation and analytical results with the SWPPP on the project site.

If construction activities or knowledge of site conditions change such that discharges or sampling locations change, the Contractor shall amend the SAP in conformance with this section, "Water Pollution Control."

IMPLEMENTATION REQUIREMENTS

The Contractor's responsibility for SWPPP implementation shall continue throughout any temporary suspension of work ordered in conformance with the provisions in Section 8-1.05, "Temporary Suspension of Work," of the Standard Specifications.

If the Contractor or the Engineer identifies a deficiency in the implementation of the approved SWPPP, the deficiency shall be corrected immediately, unless an agreed date for correction is approved in writing by the Engineer. The deficiency shall be corrected before the onset of precipitation. If the Contractor fails 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 deficiencies from payments.

If the Contractor fails to conform to the provisions of this section, "Water Pollution Control," the Engineer may order the suspension of work until the project complies with the requirements of this section.

The Contractor shall construct permanent water pollution control items identified in the SWPPP as specified in "Order of Work" of these special provisions. The Contractor shall maintain the permanent water pollution control items in the locations and condition shown on the plans throughout the duration of the project.

Year-Round

The Contractor shall monitor the National Weather Service weather forecast on a daily basis during the contract. The Contractor may use an alternative weather forecasting service if approved by the Engineer. Appropriate water pollution control practices shall be in place before precipitation.

The Contractor may discontinue earthwork operations for a disturbed area for up to 21 days and the disturbed soil area will still be considered active. When earthwork operations in the disturbed area have been completed, the Contractor shall implement appropriate water pollution control practices within 15 days, or before predicted precipitation, whichever occurs first.

Rainy Season

The Contractor shall provide soil stabilization and sediment control practices during the rainy season between October 15 and April 15.

The Contractor shall implement soil stabilization and sediment control practices a minimum of 10 days before the start of the rainy season.

Rain Event Action Plan

The Contractor shall prepare a written Rain Event Action Plan (REAP) as part of the SWPPP. The REAP must describe work to be done to protect exposed areas of the jobsite before predicted storms.

The REAP must include:

1. Title sheet
2. Table of contents
3. Description of the storm event requiring the mobilization of crews and protection of exposed areas:
 - 3.1. Precipitation predicted by the National Weather Service to occur within 72 hours and have one of the following:
 - 3.1.1. Probability of at least 40 percent
 - 3.1.2. Quantity of at least 6 mm
4. Pre-storm activities including:
 - 4.1. Responsibilities of the WPC manager
 - 4.2. Responsibilities of the crew and crew size
 - 4.3. Stabilization for active and inactive disturbed soil areas
 - 4.4. Stockpile management
5. Activities to be done during storm events including:
 - 5.1. Responsibilities of the WPC manager
 - 5.2. Responsibilities of the crew and crew size
 - 5.3. Stabilization for active and inactive disturbed soil areas
 - 5.4. Stockpile management
 - 5.5. BMP maintenance
6. Diagram showing drainage patterns including:
 - 6.1. Surface flow and subsurface drainage systems
 - 6.2. Run-on flows to the jobsite
 - 6.3. Flows to drainage inlets and other drainage facilities
 - 6.4. Modifications to existing surface and subsurface drainage systems
 - 6.5. Impacts of current work and construction phase
7. Coordination with subcontractors
8. Description of flood contingency measures

The REAP must be revised whenever the SWPPP is amended:

1. At the start of the rainy season
2. When there is a change in the construction schedule or activities

The WPC manager must implement the REAP including mobilizing crews to complete activities before precipitation occurs.

INSPECTION AND MAINTENANCE

The WPCM shall inspect the water pollution control practices identified in the SWPPP as follows:

- A. Before a forecasted storm,
- B. After precipitation that causes site runoff,
- C. At 24-hour intervals during extended precipitation,
- D. On a predetermined schedule, a minimum of once every 2 weeks outside of the defined rainy season, and
- E. On a predetermined schedule, a minimum of once a week during the defined rainy season.

The WPCM shall oversee the maintenance of the water pollution control practices.

The WPCM shall use the Storm Water Quality Construction Site Inspection Checklist provided in the Preparation Manual or an alternative inspection checklist provided by the Engineer. A copy of the completed site inspection checklist shall be submitted to the Engineer within 24 hours of finishing the inspection.

The Contractor may request approval from the Engineer to suspend inspections of water pollution control practices after work except plant establishment is complete. The Engineer's approval is contingent on approval from the Regional Water Quality Control Board. The Contractor shall not suspend inspections until written approval from the Engineer is received.

REPORTING REQUIREMENTS

If the Contractor identifies discharges into surface waters or drainage systems causing or potentially causing pollution, or if the project receives a written notice or order from a regulatory agency, the Contractor shall immediately inform the Engineer. The Contractor shall submit a written report to the Engineer within 7 days of the discharge, notice or order. The report shall include the following information:

- A. The date, time, location, and nature of the operation, type of discharge and quantity, and the cause of the notice or order.
- B. The water pollution control practices used before the discharge, or before receiving the notice or order.
- C. The date of placement and type of additional or altered water pollution control practices placed after the discharge, or after receiving the notice or order.
- D. A maintenance schedule for affected water pollution control practices.

Annual Certifications

By June 15 of each year, the Contractor shall complete and submit to the Engineer an Annual Certification of Compliance, as contained in the Preparation Manual.

PAYMENT

During each estimate period the Contractor fails to conform to the provisions in this section, "Water Pollution Control," or fails to implement the water pollution control practices shown on the plans or specified elsewhere in these special provisions as items of work, the Department will withhold 25 percent of the progress payment.

Withholds for failure to perform water pollution control work will be in addition to all other withholds provided for in the contract. The Department will return performance-failure withholds in the progress payment following the correction of noncompliance.

The contract lump sum price paid for prepare storm water pollution prevention plan shall include 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 inspecting water pollution control practices as specified in the Standard Specifications and these special provisions, and as directed by the Engineer.

Payments for prepare storm water pollution prevention plan will be made as follows:

- A. After the SWPPP has been approved by the Engineer, 50 percent of the contract item price for prepare storm water pollution prevention plan will be included in the monthly progress estimate.
- B. Forty percent of the contract item price for prepare storm water pollution prevention plan will be paid over the life of the contract.
- C. After acceptance of the contract in conformance with the provisions in Section 7-1.17, "Acceptance of Contract," of the Standard Specifications, payment for the remaining 10 percent of the contract item price for prepare storm water pollution prevention plan will be made in conformance with the provisions in Section 9-1.07A, "Payment Prior to Proposed Final Estimate."

Storm water sampling and analysis will be paid for as extra work as provided in Section 4-1.03D, "Extra Work," of the Standard Specifications. No payment will be made for the preparation, collection, analysis, and reporting of storm water samples where appropriate water pollution control practices are not implemented before precipitation or if a failure of a water pollution control practice is not corrected before precipitation.

Implementation of water pollution control practices in areas outside the highway right of way not specifically provided for in the SWPPP or in these special provisions will not be paid for.

Water pollution control practices for which there are separate contract items of work will be measured and paid for as those contract items of work.

10-1.05 TEMPORARY STORM WATER RUN-ON BYPASS AND EXCAVATION DEWATERING

This work includes temporary diversion of storm water run-on around work areas and collection, treatment, and disposal of storm water run-off from high risk areas of the job site and water from excavation dewatering. Conform to the requirements in Section 7-1.01 G, "Water Pollution Control," of the Standard Specifications, "Water Pollution Control" of these special provisions, and these special provisions.

TEMPORARY STORM WATER RUN-ON BYPASS

The Contractor shall furnish all tools, equipment, materials, and supplies, and shall perform all labor as required to divert storm water in order to prevent run-on entering work areas including, but not limited to, tunnel excavations, structure excavations for footings, walls, storm drain systems, sanitary sewer systems, utilities and appurtenances to complete the work. Storm water run-on being bypassed shall not be allowed to mix with non-storm water and storm water run-off from high-risk work areas identified in the Conceptual Design Report described elsewhere in this section. High-risk work areas are defined in the Conceptual Design Report, and in "Treatment of Storm Water Run-off from High Risk Areas" within this section.

Attention is directed to the Conceptual Design Report for estimating the quantity of storm water run-on discharges.

Storm water Run-on Bypass Plan (SRBP)

The Contractor shall submit to the Engineer, as provided in "Working Drawings," of these special provisions, a Storm water Run-on Bypass Plan (SRBP) within the Non-Storm water Discharge Control Plan (NSDCP), described elsewhere in this section. The SRBP shall include:

1. Identification and description of all major sources of storm water run-on discharges that are expected to enter work areas.
2. Water pollution control drawings that show temporary bypass measures for bypassing storm water run-on from above, and around the work areas at the project site. The drawings shall show how natural run-on shall be diverted and prevented from entering into work areas.
3. Description of the best management practices (BMPs) with information on the sizing and installation of the conveyance system including pipes, pumps, and their inspection and maintenance procedures to ensure that no storm water runon discharges enter the work areas.

Temporary Bypass Measures

The Contractor shall select and deploy temporary bypass measures or BMPs that shall consist of a system of structures and measures that intercept storm water run-on discharges upstream of work areas, transport it around the work area, and discharge it downstream with minimal water quality degradation from either construction activities or the construction of the BMPs.

The Contractor's selection of temporary BMPs shall conform to the Department's "Construction Site Best Management Practices (BMPs) Manual," including addenda to the Manual issued up to and including the date of advertisement of this contract. Copies of this Manual may be obtained from the Department of Transportation, Material Operations Branch, Publication Distribution Unit, 1900 Royal Oaks Drive, Sacramento, California 95815, Telephone: (916) 445 3520, and may also be obtained from the Department's Internet website at:

http://www.dot.ca.gov/hq/construc/stormwater/CSBMPM_303_Final.pdf.

Temporary BMPs including but not limited to any or all of following components shall be employed in conformance with this Manual:

1. Earth Dikes/Drainage Swales & Lined Ditches (SS-9)
2. Outlet Protection/Velocity Dissipation Devices (SS-10)
3. Slope Drains (SS-11)
4. Check Dam (SC-4)

Any substance used to assemble or maintain diversion structures, or to minimize seepage underneath diversion structures, such as grout, shall be non-toxic, non-hazardous.

The size and type of temporary culverts or pipes to be installed shall be capable of conveying the 10 year, 24 hour storm event. Pipe joints for temporary culverts or pipes shall be watertight in conformance with the provisions in Section 61-1.02, "Performance Requirements for Culvert and Drainage Pipe Joints," of the Standard Specifications. The Contractor shall be responsible for incorporating any required fittings or appurtenances to ensure that the temporary bypass measures can be placed without inducing stresses that could damage the pipes used to convey the bypass flow.

The material, size and type of supports for temporary culverts shall be at the option of the Contractor; however, supports shall be constructed in a manner that will provide adequate supports for the culvert.

The Contractor shall be responsible for preventing, at Contractor's expense, any leakage in the temporary storm water run-on bypass measures. Any portion of the temporary storm water run-on bypass measures that is damaged from any cause during the progress of the work shall be repaired or replaced by the Contractor at the Contractor's expense. If during the progress of work for a particular section it becomes necessary to reposition or relocate portions of the temporary drainage bypass measure, the work shall be done at the Contractor's expense.

When no longer required for the work as determined by the Engineer, temporary run-on bypass measures shall be removed. Removed facilities shall become the property of the Contractor and shall be disposed of outside the highway right of way in conformance with the provisions in Section 7-1.13, "Disposal of Material Outside the Highway Right of Way," of the Standard Specifications.

Inspection

The Contractor shall conduct a daily inspection of storm water run-on bypass equipment, when in use, and ensure that all components are functional and routinely maintained. If any component of the equipment is damaged so that the performance of the equipment is diminished below allowable operational levels, the component shall be repaired or replaced with substitute equipment. Bypassed storm water run-on that mixes with non-storm water or storm water runoff from high risk areas shall be treated prior to disposal as described within "Collection, Conveyance, and Treatment" in this section. Inspection reports shall be submitted to the Engineer along with the Daily Inspection Report (DIR) described elsewhere in this section.

TEMPORARY STORM WATER RUNOFF FROM HIGH RISK AREAS

High risk areas are defined as areas, where storm water runoff is expected to have a turbidity of more than 1000 Nephelometric Turbidity Units (NTU) and a pH of more than 8.5. High risk areas on the west portal side extend for a length of 100 meters from "Begin of Mined Tunnel" ("2N" Line Station 107+22.650) and a width from the toe of the existing slope to the edge of shoulder. High risk areas on the east portal side extend for a length of 100 meters from the "End of Mined Tunnel" on the east portal side ("2N" Line Station 117+13) and a width from the toe of the existing slope to the edge of shoulder.

A plan showing the delineation of the high risk areas is included in the Conceptual Design Report. Storm water runoff flow rates from high risk areas shall be estimated based on a 4 year, 24 hour storm event. Storm water runoff from high risk areas shall be collected and conveyed to the temporary non-storm water treatment system (TNSWTS) for treatment and disposal.

TEMPORARY EXCAVATION DEWATERING

Temporary excavation dewatering shall consist of collection, conveyance, treatment, and disposal of:

1. Water used by equipment for tunnel and cross passage excavations;
2. Groundwater encountered during structure excavations, tunnel excavations and cross passage excavations;
3. Groundwater collected in installed underdrains.

All discharges from temporary excavation dewatering shall be collected and conveyed to the TNSWTS. Concrete washout water from delivery trucks and shotcrete spraying equipment used inside the tunnel shall not be allowed to mix with excavation dewatering discharges. Disposal of concrete washout water shall be in accordance with "Temporary Concrete Washout Bin" of these special provisions.

All discharges of temporary excavation dewatering and storm water runoff from high risk areas shall be considered as non-storm water discharges hereafter.

Discharge of treated non-storm water shall be in accordance with the "Disposal" section described elsewhere in this section.

Conformance with the requirements of this section shall in no way relieve the Contractor from the Contractor's responsibilities, as provided in Section 7 1.11, "Preservation of Property," and Section 7 1.12, "Responsibility for Damage," of the Standard Specifications.

PERMITS

Attention is directed to "Relations With California Regional Water Quality Control Board" of these special provisions. Non-storm water discharges that are reused on-site, or discharged to the storm drain system shall be performed in conformance with the general waste discharge requirements for Order No. R2-2006-0075, NPDES General Permit No. CAG912002, issued by the San Francisco Bay Regional Water Quality Control Board (SFBRWQCB) for "Discharge Or Reuse Of Extracted and Treated Groundwater polluted by Fuel Leaks and Other Related Wastes at Service Stations and Similar Sites and these special provisions. This permit is hereafter referred to as the "Order No. R2-2006-0075" in this section, and can be obtained from the SFBRWQCB. A copy of the Order No. R2-2006-0075 is also included in the Conceptual Design Report described elsewhere in this section.

The Contractor shall be fully informed of the provisions of the Order No. R2-2006-0075 and conduct the work accordingly. Compliance monitoring will be performed by the Contractor in conformance with Order No. R2-2006-0075 described in this section.

In order to obtain coverage under Order No. R2-2006-0075, the Contractor shall prepare and submit to the Engineer, the following:

1. Non-Storm water Discharge Control Plan (NSDCP), described elsewhere in this section
2. Notice of Intent (NOI)
3. A report certifying the adequacy of each component of the planned Groundwater Treatment System and an Operation and Maintenance Manual in conformance with Order No. R2-2006-0075 and these special provisions.

The Department will submit the Notice of Intent (NOI) to initiate the discharge. The Contractor shall pay all fees assessed by the SFBRWQCB in connection with the discharge.

The Contractor shall be responsible for fully complying with all the sections of Order No. R2-2006-0075 including, but not limited to:

1. Sections III - Discharge Prohibitions
2. Section IV - Effluent Limitations and Discharge Specifications
3. Section V - Receiving Water Limitations
4. Section VI - Provisions
5. Section VII - Compliance Determination
6. Attachment D - Standard Provisions
7. Attachment E - Monitoring and Reporting Program (MRP)
8. Attachment G - Notice of Startup or Re-Startup
9. Attachment H - Notice of Temporary Shut Down
10. Attachment I - Notice of Termination

The Contractor shall be responsible for designing and constructing all components of the TNSWTS which should conform to "Tunnel Excavation and Support," of these special provisions, and as directed by the Engineer.

The Contractor shall list "Temporary Storm water Run-On Bypass" and "Non-Storm Water Treatment" as one of the various measures to prevent water pollution within the SWPPP, described in "Water Pollution Control" of these special provisions.

CONCEPTUAL DESIGN REPORT

A Conceptual Design Report has been prepared by the Department. The Conceptual Design Report provides a conceptual model of the Temporary Storm water Run-on Bypass Plan and the handling and disposal of non-storm water discharges from temporary excavation dewatering operations. The information in this report is not to be construed in any way as a waiver of the provisions in the Order No. R2-2006-0075 and bidders and contractors are cautioned to make independent investigations and examination as they deem necessary to be satisfied as to conditions to be encountered in performance of work and, with respect to possible local material sources, the quality and quantity of material available from the property and the type and extent of processing that may be required in order to produce material conforming to the requirements of the specifications.

The Department assumes no responsibility for conclusions or interpretations made by a bidder or contractor based on information or data made available by the Department. The Department does not assume responsibility for representation made by its officers or agents before the execution of the contract concerning surface or subsurface conditions, unless representation is expressly stated in the contract.

No conclusions or interpretations made by a bidder or contractor from the information and data made available by the Department will relieve a bidder or contractor from properly fulfilling the terms of the contract.

This report also includes background water quality of groundwater, expected water quality characteristics of the influent to the TNSWTS, potential staging areas, potential non-storm water flow rates, pre-treatment measures, TNSWTS components, reuse and disposal of treated non-storm water with discharge locations.

A copy of the Conceptual Design Report that includes a copy of the Order No. R2-2006-0075 is available for inspection at the Department of Transportation, Duty Senior's Desk, 111 Grand Avenue, Oakland, California, email; duty_senior_district04@dot.ca.gov, telephone (510) 286-5209.

RETENTION OF FUNDS

Notwithstanding any other remedies authorized by law, the Department will retain money due the Contractor under the contract, in an amount determined by the Department, up to and including the entire amount of Penalties proposed, assessed, or levied as a result of the Contractor's violation of the Order No. R2-2006-0075, or Federal or State law, regulations or requirements. Funds may be retained by the Department until final disposition has been made as to the Penalties. The Contractor shall remain liable for the full amount of Penalties until such time as they are finally resolved with the entity seeking the Penalties.

Retention of funds for failure to conform to the provisions in this section, "Temporary Storm water Run-On Bypass and Excavation Dewatering," shall be in addition to the other retention amounts required by the contract. The amounts retained for the Contractor's failure to conform to provisions in this section will be released for payment on the next monthly estimate for partial payment following the date when an approved NSDCP has been implemented and maintained, and when water pollution has been adequately controlled, as determined by the Engineer.

When a regulatory agency identifies a failure to comply with the Order No. R2-2006-0075 and modifications thereto, the Manuals, or other Federal, State or local requirements, the Department will retain money due the Contractor, subject to the following:

1. The Department will give the Contractor 30 days notice of the Department's intention to retain funds from partial payments which may become due to the Contractor prior to acceptance of the contract. Retention of funds from payments made after acceptance of the contract may be made without prior notice to the Contractor.
2. No retention of additional amounts out of partial payments will be made if the amount to be retained does not exceed the amount being withheld from partial payments pursuant to Section 9 1.06, "Partial Payments," of the Standard Specifications.
3. If the Department has retained funds, and it is subsequently determined that the State is not subject to the entire amount of the Costs and Liabilities assessed or proposed in connection with the matter for which the retention was made, the Department shall be liable for interest on the amount retained for the period of the retention. The interest rate payable shall be 6 percent per annum.

During the first estimate period that the Contractor fails to conform to the provisions in this section, "Non-storm water Discharge Control," the Department will retain an amount equal to 25 percent of the estimated value of the contract work performed. These funds may be retained for several continuous pay periods until the Contractor conforms to the provisions in this section.

COLLECTION, CONVEYANCE, AND TREATMENT

Collection And Conveyance System

Non-storm water shall be collected and conveyed to the TNSWTS and from the TNSWTS to the point of discharge described in "Disposal" of this section.

Collection and conveyance system shall not allow commingling of non-storm water with temporary storm water run-on bypass discharges.

The collection and conveyance system shall be capable of handling a maximum flow rate of 24 liters per second and not allow unintentional bypass of non-storm water discharges prior to treatment. The Contractor shall submit a proposal for the Engineer's approval to convey non-storm water from the east to the west portal, using a collection and conveyance system capable of handling a maximum flow rate of 12 liters per second.

The Contractor may propose to the Engineer for approval, a process to convey the non-storm water from the east portal to the west portal for treatment and disposal. The conveyance proposed shall include interlocking pipe mechanism that provides double containment to prevent leakage of non-storm water during the conveyance.

Storm water runoff from high risk areas may be conveyed around the TNSWTS by diversion to the "001" location as referenced in "Disposal" of this section if:

1. The maximum flow of rate of non-storm water exceeds 12 liters per second at each portal
2. The maximum flow rate of non-storm water exceeds 24 liters per second at the influent to the TNSWTS.

The collection and conveyance system shall be capable of isolating storm water runoff from high risk areas to facilitate diversion.

The Contractor shall be responsible for providing all temporary storage, pumps, piping required to convey the non-storm water to the TNSWTS and to the point of discharge. Collection and conveyance system components for non-storm water shall include all temporary drainage system components including but not limited to installation of drain inlet structures, piping, trenches, sumps and pumps.

Materials shall conform to the provisions in Section 6, "Control of Materials," Section 7-1.16, "Contractor's Responsibility for the Work and Materials," and Section 74-2, "Drainage Pump Equipment" of the Standard Specifications and these special provisions.

The Contractor shall use a flow meter, as described in "Discharge Volume Records" of this section, to measure all discharges to and from the TNSWTS to discharge locations and measure the volume of treated non-storm water that is reused, as described in "Disposal," of this section.

Pre-treatment Measures

Pre-treatment measures shall be employed to minimize sediment discharges into the influent prior to the TNSWTS during the collection and conveyance of non-storm water discharges. Pre-treatment measures shall be employed inside the tunnel and within high risk work areas. Pre-treatment measures including but not limited to any or all of these components shall be employed in conformance with the "Manuals" described in "Water Pollution Control" of these special provisions:

1. Stockpile Management to prevent runoff or sediment-laden runoff (WM-3);
2. Plastic Covers to prevent contamination of soils during shotcreting operations (SS-7);
3. Silt Fences (SC-1);
4. Sediment Traps (SC-3);
5. Check Dams (SC-4);
6. Weir Tanks
7. Mechanical separation devices for removal of particles to approximately 10 to 20 microns in size (Sand Separators and Mechanical Filters);
8. Stabilizing construction roadway (TC-2) using concrete based on longevity, required performance and site conditions;
9. Street Sweeping and Vacuuming (SC-7). Attention is directed to "Street Sweeping," of these special provisions.

Sediment accumulated as a result of the employment of pretreatment measures shall be handled in accordance with "Disposal of Excavated Materials," as described elsewhere in these special provisions, and shall be removed periodically to levels acceptable for TNSWTS treatment as per manufacturer's recommendations or when sediment accumulation reaches one-third (1/3) of the height of the measure used, to ensure proper functioning of these components. Sediment removed as a result of the employment of pretreatment measures that use chemicals shall be disposed of in conformance with the provisions of Section 7-1.13, "Disposal of Material Outside the Highway Right of Way," of the Standard Specifications.

Temporary Non-Storm water Treatment Systems (TNSWTS)

The Contractor shall provide a TNSWTS to treat the non-storm water collected from high risk areas, tunnel excavation, and structure excavations at both portals. The TNSWTS at each portal shall be capable of processing the influent non-storm water at a maximum flow rate of 12 liters per second. If the Engineer approves the Contractor's proposal to use a conveyance system to transfer non-storm water to the west portal, the TNSWTS at the west portal shall be capable of processing the influent non-storm water at a maximum flow rate of 24 liters per second.

The Contractor shall design the TNSWTS to remove pollutants expected or introduced by the Contractor's construction methods and materials employed, in the non-storm water influent to achieve and maintain compliance with the effluent limitations and receiving water limitations listed in the Order No. R2-2006-0075.

The Contractor shall consider pollutants expected in the non-storm water influent based on construction methods and materials employed. The TNSWTS shall be appropriately sized to prevent delay of work.

Attention is directed to "Geotechnical Baseline Report," in "Supplemental Project Information," of these special provisions regarding presence of naturally occurring petroleum hydrocarbons. The Contractor shall expect a baseline total petroleum hydrocarbons concentration of up to 1 milligram per liter (mg/l) in the groundwater encountered during structure excavations, tunnel excavations and cross passage excavations.

The TNSWTS components shall be designed to treat non-storm water influent concentrations of expected pollutants including, but not limited to all of the following:

Pollutant	Estimated Concentration Range in the influent to TNSWTS
pH	0 – 14
Turbidity	100- 30,000NTU Instantaneous measurement can exceed 30,000 NTU
Total Suspended Solids (TSS)	150 to 40,000 mg/l Instantaneous measurement can exceed 40,000 mg/l
Total Petroleum Hydrocarbons	1 mg/l to 100 mg/l

The contractor shall provide treatment system components for two separate treatment trains as part of each TNSWTS. Each treatment train shall be capable of processing a maximum flow rate of 12 liters per second, as a backup or auxiliary system to allow for redundancy during emergency shut down or scheduled maintenance. If non-storm water from both portals is treated with one TNSWTS, each treatment train shall be capable of processing a maximum flow rate of 24 liters per second.

Treatment System Components

The Contractor shall not allow the non-storm water discharges to bypass the TNSWTS except as allowed for run-off from high risk areas. TNSWTS components including but not limited to any or all of these components shall be employed as part of the TNSWTS to provide adequate treatment and polishing to achieve compliance with the Permit:

1. pH adjustment using carbon dioxide;
2. Chemical Coagulation and Flocculation using an organic, or inorganic polymer;
3. Chemically Enhanced Filtration using an organic, or inorganic polymer;
4. Settling Tanks;
5. Sand Media Filters;
6. Cartridge Filters
7. Granular Activated Carbon Filters;
8. Ion-Exchange Units;
9. Belt Filter Press to dewater solids removed from the non-storm water discharge through settling or filtration;
10. Back-flow control mechanisms to prevent partially non-treated non-storm water from commingling with the influent stream.

If the Contractor proposes to use a chemical coagulant and/or flocculant agent for treatment of non-storm water, the Contractor shall obtain prior approval from the SFBRWQCB for the use of any selected coagulant, polymer and other treatment chemical, and submit the approval documentation to the Engineer along with the CPP. prepare and submit a Coagulant Prevention Plan (CPP) described in this section, within the NSDCP to the Engineer for approval.

The Contractor shall ensure that the treatment system components are steam cleaned to remove any residual contaminants. Sampling ports shall be provided as part of the TNSWTS. Sampling ports shall be spigots attached to the piping system and capable of obtaining a representative sample of water at each location of the TNSWTS as directed by the Engineer.

A Supervisory Control and Data Acquisition (SCADA) system shall be used to control and monitor the TNSWTS, and generate weekly Water Quality Monitoring Records. Continuous monitors shall be used in the TNSWTS to measure influent and effluent pH, and turbidity for each treatment train. Streaming current detectors shall be used to provide feedback from the continuous monitors for adjustment of chemical dose for turbidity or pH control. The SCADA system shall provide alarms, automatic control to route non-storm water flows, and notify the Certified Technician described elsewhere in this special provision, in the event of a failure or exceedance of the effluent limitations.

Staging Area

Potential staging areas are identified in the Conceptual Design Report prepared by the Department, available as part of the Information Handout. The staging area for the TNSWTS shall be secured against entry by the public and non-authorized construction personnel.

Attention is directed to "Erosion Control (Type D)" of these special provisions regarding the requirement to stabilize and restore all disturbed soil areas following removal of all facilities and equipment associated with the TNSWTS.

Disposal

Treated non-storm water discharged from the TNSWTS shall conform with the Order No. R2-2006-0075 effluent and receiving water limitations. Treated non-storm water from the TNSWTS shall be discharged at the authorized discharge location identified in the Conceptual Design Report as "001". The discharge location is also shown on the contract plans as item 15b, "G2 JB", 12.0 meters left of station 2N 106+34.4.

The discharge shall not cause erosion at the point of discharge. Disposal of the treated non-storm water from the TNSWTS at discharge location "001" shall not occur until the Contractor has maximized the reuse of treated non-storm water for dust control.

The Contractor shall provide written documentation for each reuse option that is not feasible, in the Non-Storm water Discharge Control Plan (NSDCP) to be approved by the Engineer. The Contractor shall conduct monitoring at locations specified in the Order No. R2-2006-0075, as described in "Monitoring and Reporting Program" of this section.

Sediments/solids generated from the TNSWTS shall be disposed in accordance with Section 7-1.13, "Disposal of Material Outside the Highway Right of Way," of the standard Specifications. The Contractor shall perform additional sampling if required for disposal of solids in accordance with Section 7-1.13, of the standard specifications.

Operation and Maintenance of TNSWTS

The Contractor shall fully comply with Section IV - "Provisions" and Attachment D - "Standard Provisions," of the Order No. R2-2006-0075.

The Contractor shall at all times properly operate and maintain the TNSWTS to comply with the conditions in the Order No. R2-2006-0075, which includes adequate laboratory controls and appropriate quality assurance procedures.

The Contractor shall notify the Engineer immediately upon request from the regulatory agencies to enter, inspect, sample, monitor, or otherwise access the project site or the Contractor's records pertaining to non-storm water discharge control work. The Contractor and the Department shall provide copies of correspondence, notices of violation, enforcement actions or proposed fines by regulatory agencies to the requesting regulatory agency.

TNSWTS Bypass

The Contractor shall comply with the section on "Bypass", as described in Attachment D of the Order No. R2-2006-0075. This section of the Order No. R2-2006-0075 includes the definition of bypass, prohibition and procedures for submittal of a notification of anticipated and unanticipated bypass to the Engineer.

TNSWTS Upset

The Contractor shall comply with the section on "Upset", as described in Attachment D of the Order No. R2-2006-0075. This section of the Order No. R2-2006-0075 includes the definition of upset, prohibition and procedures for submittal of a notification of upset to the Engineer.

Records

The Contractor shall comply with the section on "Standard Provisions - Records", as described in Attachment D of the Order No. R2-2006-0075. This section of the Order No. R2-2006-0075 requires retention of records of all monitoring information, including calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required in the Order No. R2-2006-0075 for a period of three years from the date of sample, measurement or report. The Contractor shall upon request by the Engineer furnish copies of records. Any request for records from regulatory agencies shall be directed to the Engineer.

Logs and documentation of all monitoring and testing shall be kept on site in a secure weatherproof structure.

Reporting

The Contractor shall comply with the section on "Standard Provisions - Reporting", as described in Attachment D of the Order No. R2-2006-0075 for the following: signatory and certification of all submittals including monitoring reports; twenty-four hour reporting to the Engineer; notification of planned changes to the permitted facility; notification of anticipated non-compliance; other non-compliance; and other information.

The notifications, reports or submittals to the Engineer that are required in the Order No. R2-2006-0075 shall be signed by either the Contractor's principal executive officer, chief executive officer or the a duly authorized representative who has overall responsibility for operation of the regulated facility or activity.

The Contractor shall conduct daily visual inspection of the TNSWTS, when in operation, to ensure that the various components are functional. Components shall be routinely maintained or replaced to prevent leakage and to ensure efficient operation of the TNSWTS.

Any treatment system component that is found to be damaged or to affect the performance of the TNSWTS shall be either immediately repaired or replaced.

MONITORING AND REPORTING PROGRAM (MRP)

Monitoring Locations and Parameters

The Contractor shall be responsible for fully implementing the "Monitoring and Reporting Program (MRP)" as described in Attachment E and Attachment G of the Order No. R2-2006-0075. The Contractor shall propose and identify site specific monitoring locations in the MRP for the Engineer's approval.

Certified Technician(s)

The Contractor shall furnish Certified Technician(s) with the qualifications described in this section to operate the TNSWTS. The Contractor shall submit to the Engineer a statement of qualifications, describing the training, previous work history and expertise of the individual(s) selected to serve as Certified Technician(s). The Certified Technician(s) shall be certified through an approved Operator's Training Program. Valid technician certificate(s) shall be posted onsite. TNSWTS training content shall include, but is not limited to: Storm water regulatory framework and requirements; Non-storm water treatment chemistry (pH, filtration, coagulation, flocculation); Storm water treatment experience including jar test procedure; Treatment system components and their operation; Operating the treatment system; Testing turbidity, pH, and chemical residual; Optimizing chemical dosing rates.

The Certified Technician shall provide written proof of operator certification training to the Engineer; Provide names and contact information for all individuals involved with the site design, installation process, maintenance, operation of, and monitoring of the TNSWTS.

The Contractor shall retain competent staff to carry out the tasks listed in provisions VI.C.6, VI.C.7, VI.C.8 and VI.C.9 in the Order No. R2-2006-0075.

Daily Inspection Report (DIR)

The Certified Technician shall be responsible for compiling the Daily Inspection Report (DIR) to be submitted to the Engineer on a weekly basis and performing other monitoring and sampling work. The DIR form shall include the following items: Physical Observations; Discharge Volume Records; Water Quality Monitoring Records described elsewhere in this section. The DIR form shall be developed as part of the NSDCP and approved by the Engineer prior to use.

All information and recorded data collected or submitted as part of the DIR shall be certified as true and accurate and signed by the Certified Technician.

Physical Observations

The Contractor shall monitor the discharges at the monitoring locations specified in this section. The information recorded in the DIR shall include physical observations of the receiving water body including color, size of affected area, presence of suspended material, presence of water fowl or aquatic wildlife, wind direction and velocity, atmospheric condition, time and date. In addition, the Certified Technician shall supplement the observations with photographs.

The Certified Technician shall conduct observations at a minimum, one hour prior to discharge, during the first ten minutes of initiating discharge, every four hours during discharge, and upon cessation of discharge. The observations shall be recorded daily in a tabular format known as the Daily Inspection Report (DIR) described elsewhere in this section.

Observations or measurements which indicate that the discharge is of a purity such that turbidity and apparent color are beyond the present natural background levels shall be immediately reported to the Engineer. The discharge activity shall immediately cease, so that corrective action are undertaken to repair, modify operations or replace equipment. The commencement of discharge activities shall be allowed upon approval by the Engineer.

Discharge Volume Records

Flow meters that have been approved by the Engineer for exclusive use in TNSWTS during construction shall be used to measure average-daily volumes of non-storm water effluent discharged at the designated discharge point, and the average-daily volumes for each of the reuse options described in "Disposal" section of this special provision.

For every day when discharges occur from the TNSWTS the Certified Technician shall record the flow-meter totalizer readings, and compute average daily volumes. The Discharge Records shall include:

1. Daily documentation of construction operation that could affect the quantity and quality of influent non-storm water discharge to the TNSWTS.
2. Flow meter totalizer readings including the computed average daily volumes that account for all the treated non-storm water discharges and the reuse options. Separate flow meters shall be provided for measuring discharges at the designated discharge point and discharges that are reused.
3. The Discharge Volume Records shall include calibration logs for the flow meters. All calibrations shall be done in conformance with the manufacturer's instructions in the presence of the Engineer.
4. Daily records of the mass of sediment accumulated in the pretreatment measures.
5. Daily records of the mass of sediment and solids accumulated in the TNSWTS and disposed off-site.

Water Quality Monitoring Records (WQMR)

The Certified Technician shall conduct monitoring activities as described in "Monitoring and Reporting Program (MRP)" in the Order No. R2-2006-0075. The Certified Technician shall conduct each monitoring event by collecting samples for analyses of parameters at the specified monitoring locations at a frequency described within the MRP section described in the Permit.

The Certified Technician shall include results of analyses and visual observations in the Water Quality Monitoring Records.

Monitoring Periods and Reporting Schedule

The Contractor shall be responsible for fully complying within "Reporting Requirements," as described in Attachment E in the Order No. R2-2006-0075. The Certified Technician shall prepare Self Monitoring Reports (SMR) and Discharge Monitoring Reports (DMR) as required in the monitoring periods and reporting schedule described in Attachment E.

Attention is directed to "Submittals" in this section for the contents and the requirements for completing the SMR and DMR.

SUBMITTALS

The Contractor shall be responsible for preparing and submitting the following documents to the Engineer in accordance with the schedules described in this section:

1. Non-storm water Discharge Control Plan (NSDCP)
2. Notice of Intent (NOI)
3. A report certifying the adequacy of each component of the planned Groundwater Treatment System and an Operation and Maintenance Manual in conformance with Order No. R2-2006-0075 and these special provisions and a Contingency Plan.
4. Coagulant Prevention Plan (CPP)
5. Evaluation of expected contaminants from blasting operations
6. Self Monitoring Reports (SMR) and Discharge Monitoring Reports (DMR)
7. Material Safety Data Sheets (MSDS) for all materials used in the tunnel excavation processes

As part of the non-storm water discharge control work, the Contractor shall prepare the submittals required in the Order No. R2-2006-0075 and as described in this section.

The submittals shall conform to the provisions in Section 7-1.01G, "Water Pollution," of the Standard Specifications, the requirements in the Manual, the requirements of the Permits, and these special provisions. Upon the Engineer's approval of the submittals, the submittals shall be considered to partially fulfill the provisions in Section 7-1.01G, "Water Pollution," of the Standard Specifications for development and submittal of a Storm water Pollution Prevention Plan.

The Contractor shall assign a Professional Engineer registered in the State of California to: oversee the work of the Certified Technician, prepare the submittals required in this section, including the required modifications or amendments; oversee the TNSWTS operation and maintenance activities; be responsible for the implementation and adequate functioning of the components for the collection, conveyance, pretreatment, treatment and disposal from the TNSWTS in compliance with the Order No. R2-2006-0075 requirements.

The Professional Engineer shall furnish evidence of at least 10 years experience in treatment systems of comparable size and complexity as the TNSWTS, in the following areas including, but not limited to:

1. Selection of appropriate treatment technology for non-storm water treatment
2. Design and building of treatment systems
3. Troubleshooting
4. Operations and Maintenance
5. Compliance Monitoring and Reporting
6. Safety and Hazard Operability Reviews

Evidence including, but not limited to project references, dates, names, phone numbers and color photographs shall be submitted to the Engineer.

The Contractor shall complete the required submittals within the time frames prescribed in this section. In order to allow construction activities to proceed, the Engineer may conditionally approve the submittals required in this section while minor revisions are being completed. In the event the Engineer fails to complete the review within the time allowed as required for each submittal and if, in the opinion of the Engineer, completion of the work is delayed or interfered with by reason of the Engineer's delay in completing the review, the Contractor will be compensated for resulting losses, and an extension of time will be granted, in the same manner as provided for in Section 8-1.09, "Delays," of the Standard Specifications.

Non-Storm water Discharge Control Plan (NSDCP)

As part of the non-storm water discharge control work, the Contractor shall prepare a Non-Storm water Discharge Control Plan (NSDCP). Non-storm water discharges shall not commence until the NSDCP has been approved by the Engineer. Approval shall not constitute a finding that the NSDCP complies with applicable requirements of the Order No. R2-2006-0075, the Manuals and applicable Federal, State and local laws, regulations, and requirements.

The Certified Technician shall implement the NSDCP under the oversight of the Professional Engineer. The Water Pollution Control Manager as described in "Water Pollution Control" of these special provisions shall be the primary contact for issues related to the NSDCP or its implementation.

The NSDCP shall apply to the areas within and those outside of the highway right of way that are directly related to construction operations including, but not limited to, tunnel excavation, staging areas for the TNSWTS, and reuse of treated non-storm water.

Within 45 days after contract approval, the Contractor shall submit 6 copies of the draft NSDCP to the Engineer. The Contractor shall allow 45 days for the Engineer's review. If revisions are required, the Engineer will provide comments. The Contractor shall revise and resubmit the NSDCP within 15 days of receipt of the Engineer's comments. The Contractor shall allow 15 days for the Engineer's review. If revisions are required, the Engineer will provide comments. The Contractor shall again revise and resubmit the NSDCP within 15 days of receipt of the Engineer's comments. When the Engineer approves the NSDCP, the Contractor shall submit 6 copies of the approved NSDCP to the Engineer. After approval, the Engineer will submit one copy of the approved NSDCP to the SFBRWQCB for their review and comment. If the San Francisco Bay RWQCB provides comments on the NSDCP, the Contractor shall amend the NSDCP. Construction activities involving temporary excavation dewatering shall begin no sooner than 45 days after the Engineer approves the NSDCP. If the Engineer fails to complete the review within the time allowed and if, in the opinion of the Engineer, completion of the work is delayed or interfered with because of the Engineer's or the RWQCB's review, the Contractor will be compensated for resulting losses, and an extension of time will be granted, as provided for in Section 8-1.09, "Delays," of the Standard Specifications.

The Contractor shall prepare an amendment to the NSDCP when there is a change in construction activities or operations which may affect the discharge of pollutants to surface waters, ground waters, or when the Contractor's activities or operations result in an exceedance of an effluent limitation or receiving water limitation, or when directed by the Engineer.

Amendments shall identify additional water pollution control practices or revised operations, including those areas or operations not identified in the initially approved NSDCP. Amendments to the NSDCP shall be prepared and submitted for review and approval within a time approved by the Engineer, but in no case longer than the time specified for the initial submittal and review of the NSDCP. At a minimum, the NSDCP shall be amended annually and submitted to the Engineer 45 days prior to the defined rainy season.

The Contractor shall keep one copy of the approved NSDCP along with the SWPPP and approved amendments at the project site. The NSDCP shall be made available upon request by a representative of the Regional Water Quality Control Board, State Water Resources Control Board, United States Environmental Protection Agency, or the local storm water management agency. Requests by the public shall be directed to the Engineer.

The NSDCP shall incorporate all the items identified in the "Non-storm water Discharge Control Cost Break Down" of this section.

The NSDCP shall be in conformance with the provisions in Section 5-1.02, "Plans and Working Drawings," of the Standard Specifications. At a minimum, the NSDCP shall include the following:

1. Title sheet
2. Table of contents
3. Certification and approval sheet (Section 100 of the SWPPP/WPCP Preparation Manual described in "Water Pollution Control" of these special provisions)
4. Amendment log & Amendment format (Section 200 of the SWPPP/WPCP Preparation Manual described in "Water Pollution Control" of these special provisions)
5. Organization of the NSDCP
6. References: Provide specific information about how documents are to be utilized in coordination with the NSDCP.
7. Project Description that includes project background, site information including topography site hydrology, geology, construction operations, sequence and schedule, TNSWTS staging area, discharge locations and reuse options described in "Disposal" section of this special provision.
8. The Contractor's NSDCP shall provide narrative descriptions of the construction operations that require non-storm water discharge control. The narratives shall also include, but not be limited to, an estimate of the discharge volume, flow rate, frequency of discharge.
9. Estimation of non-storm water flow rate, and quality assessment. Provide estimated non-storm water flows and a non-storm water quality assessment that includes description of all construction operations, materials used, pollutants generated from the tunnel excavation.
10. Description of the permit requirements including the Discharge Prohibitions; Effluent and Receiving Water Limitations listed in the Permit
11. Description of Monitoring and Reporting Program and a Sampling and Analysis Plan
12. Provide detailed information on how the monitoring data will be used to maintain TNSWTS in operational compliance. Provide information on method for updating and storing operational records.
13. Samples of Transmittal Cover Letter, SMR, DMR, DIR, DVR, WQMR and Non-Compliance Report (NCR)
14. Provide information collection and conveyance system at the east and west portals; conveyance system to transfer non-storm water from east to west portal; and from the TNSWTS to the designated discharge location.
15. Description of the rationale for selection of treatment technologies for pretreatment, treatment and disposal of non-storm water and reuse options.
16. Description of pretreatment and treatment technologies and the process sequence.
17. Temporary Storm water Run-On Bypass and Excavation Cost Breakdown
18. Design calculations for sizing the collection and conveyance systems, pretreatment measures and treatment technologies and the reuse options for disposal.
19. Provide information, including shop plans and sectional views, showing how the components of the TNSWTS are sized and connected. This section shall include plans showing the location of the TNSWTS relative to drainage features, aquatic resources, and pump system sizing calculations. Plans and working drawings shall be submitted in accordance with "Working Drawings" of these special provisions. The NSDCP shall graphically depict the dewatering process in plan and sectional views detailing the control practices for pH adjustment, removal techniques for suspended solids, turbidity, and other pollutants anticipated in the non-storm water influent. The NSDCP shall define the flow path and placement of pipes, hoses, pumps, and other equipment used to convey the discharge to the locations required in the Permit or the feasible reuse options.
20. Equipment specifications, operational flow rates, chemical dosing rates, and monitoring equipment as applicable.
21. Description of a step-by-step procedure the TNSWTS operator will follow during system start-up, routine operation, monitoring and shutdown. Identify special procedures to be followed during periods of extreme weather and extended system shutdown.
22. Description of a step-by-step procedure the TNSWTS operator will follow when intentional diversion or bypass of non-storm water discharges is required; preparation of notification of anticipated and unanticipated bypasses to the Engineer.
23. Description of a step-by-step procedure the TNSWTS operator will follow when TNSWTS upset occurs or an exceptional incident in which there is unintentional and temporary noncompliance with effluent limitations because of factors beyond the reasonable control of the Certified Technician.
24. Description of emergency overflow elements of the TNSWTS.
25. Description of procedures for chemical handling, containment and storage of chemicals.
26. Describe security and safety measures to be installed and maintained as part of the TNSWTS.
27. Provide step-by-step procedures when (1) pH or turbidity of influent is outside of operational range of TNSWTS or Water Quality Requirements, (2) inflows exceed capacity of the TNSWTS, and (3) additional pre-treatment is required (if influent turbidity exceeds 600 NTUs).

28. Describe situations requiring immediate system shutdown. Outline notification procedures and provide name and phone number(s) of the individual(s) responsible for contacting the Engineer in the event that a discharge from the TNSWTS is out of compliance including actions to be taken should any part of the operation result in damage to vegetation, erosion of existing soils, and/or receiving water bodies.
29. Describe contingency strategies in the event that the system becomes inoperable.
30. Provide location information of discharge point(s) from the TNSWTS and their proximity to natural water bodies and sensitive areas. Provide detailed drawings of discharge systems.
31. Justification for reuse options that are considered unfeasible on a daily basis.
32. Water balance calculations including volume of influent non-storm water to the treatment system per day, treated non-storm water reused on-site and volume of treated water discharged to the designated location 001 as described in "Disposal" of this section. This information shall be included in a Daily Water Balance Report (DWBR) which shall also include description of daily construction activity and location with stationing.
33. Notice of Intent (NOI)
34. A report certifying the adequacy of each component of the planned Groundwater Treatment System and an Operation and Maintenance Manual in conformance with Order No. R2-2006-0075 and these special provisions and a Contingency Plan. The Contractor shall describe the adjusting and testing procedures that will be used to calibrate the TNSWTS.
35. Storm water Run-on Bypass Plan (SRBP)
36. Coagulant Prevention Plan (CPP).
37. Evaluation of Expected Contaminants From Blasting
38. Data Summary Report: DWBR; DIR; DVR; WQMR; SMR; DMR and NCR approved by the Engineer
39. Spill Contingency Plan
40. Material Safety Data Sheets (MSDS) for all materials used in the tunnel excavation processes

Upon approval of the NSDCP by the Engineer, the Contractor shall be responsible for implementing the NSDCP. The Contractor shall be responsible for updating the project's NSDCP to reflect all changes associated with the TNSWTS.

Coagulant Prevention Plan (CPP)

The Contractor shall obtain prior approval from the SFBRWQCB for the use of any selected coagulant, polymer and other treatment chemical, and submit the approval documentation to the Engineer along with the CPP. The Contractor shall prepare and submit a Coagulant Prevention Plan (CPP) to the Engineer for approval. The Contractor shall describe in the CPP, the best management practices (BMPs) to prevent accidental spillage, overfeeding into the TNSWTS, or other mishandling of coagulant agents; and, a monitoring plan for all coagulants to be used.

The Contractor shall describe in the CPP, the best management practices (BMPs) to prevent accidental spillage, overfeeding into the TNSWTS, or other mishandling of coagulant agents; and, a monitoring plan for all coagulants to be used. Use of a chemical coagulant and/or flocculant agent shall be subject to approval of the CPP by the SFBRWQCB. The CPP shall include:

1. A description of the agent (chemical and trade name description).
2. Pure product freshwater and/or marine aquatic toxicity data for the agent.
3. Monitoring proposal to detect residual agent at concentrations at or below established freshwater and/or marine acute toxicity levels for that agent, and the concentrations shall be measured on a continuous basis, or on a daily basis using flow-based composite sampling, with samples collected at regular intervals not greater than every fifteen minutes, whereby the average concentration of the agent may be measured and recorded.

Evaluation of Expected Contaminants From Blasting

Attention is directed to "Blasting," of these special provisions for requirements related to the preparation and submittal of a Blasting Plan. The Contractor shall evaluate the contaminants expected to be introduced in the non-stormwater from blasting operations, and describe how these will be handled by the TNSWTS.

Self Monitoring Reports (SMR)

The Contractor shall implement monitoring as specified in the Monitoring and Reporting Program (MRP) in Attachment E of the Order No. R2-2006-0075. In addition to implementing the MRP, the Contractor may be required to implement additional monitoring as per Provision VI.B.2 in the Order No. R2-2006-0075 based on construction methods and materials employed. The Certified Technician shall prepare Self Monitoring Reports (SMR) to report results for all monitoring specified in the Monitoring and Reporting Program (MRP) in Attachment E of the Order No. R2-2006-0075.

The Contractor shall submit the SMR to the Engineer complying with all requirements in Attachment E of the Order No. R2-2006-0075.

TEMPORARY STORM WATER RUN-ON BYPASS AND EXCAVATION DEWATERING COST BREAK DOWN

The Contractor shall include a Temporary Storm water Run-on Bypass and Excavation Dewatering Cost Break Down in the NSDCP, which itemizes the contract lump sum for Temporary Storm water Run-on Bypass and Excavation Dewatering work. The Contractor shall use the Cost Break Down provided in this section as the basis for the cost break-down submitted with the NSDCP. The Contractor shall use the Cost Break Down to identify items, quantities and values for Temporary Storm water Run-on Bypass and Excavation Dewatering work. The Contractor shall be responsible for the accuracy of the quantities and values used in the cost break down submitted with the NSDCP. Partial payment for the item Temporary Storm water Run-on Bypass and Excavation Dewatering will not be made until the Cost Break Down is approved by the Engineer.

In the Cost Break Down submitted with the NSDCP, the Contractor shall list only those items selected for the project, including quantities and values required to complete the work for those items.

The sum of the amounts for the items of work listed in the Cost Break Down shall be equal to the contract lump sum price bid for Temporary Storm water Run-on Bypass and Excavation Dewatering. Overhead and profit, except for time related overhead, shall be included in the individual items listed in the cost break down.

**Temporary Storm water Run-on Bypass and Excavation Dewatering Cost Break Down
Contract No. 04-294904**

ITEM DESCRIPTION	Unit	Quantity	Value	Amount
Prepare Non-Storm water Discharge Control Plan (NSDCP)	LS	Lump Sum	Lump Sum	
Prepare Storm water Run-on Bypass Plan (SRBP)	LS	Lump Sum	Lump Sum	
Temporary Storm water Run-On Bypass BMPs	LS	Lump Sum	Lump Sum	
Operation and Maintenance of Temporary Run-On BMPs	LS	Lump Sum	Lump Sum	
Collection and Conveyance System	LS	Lump Sum	Lump Sum	
Pretreatment Measures and Disposal of Sediment	LS	Lump Sum	Lump Sum	
Non-storm water Treatment System (TNSWTS)	EA	1		
TNSWTS Operation and, Maintenance	LS	Lump Sum	Lump Sum	
Monitoring and Reporting Program Implementation	LS	Lump Sum	Lump Sum	
Disposal and Reuse of Treated Non-storm water	LS	Lump Sum	Lump Sum	
Handling and Disposal of Solids from the TNSWTS	LS	Lump Sum	Lump Sum	
Preparation of Operation, Maintenance And Contingency Plan (OP)	LS	Lump Sum	Lump Sum	
Preparation of Coagulant Prevention Plan (CPP)	LS	Lump Sum	Lump Sum	
Total				

Adjustments in the items of work and quantities listed in the approved cost break down shall be made when required to address amendments to the NSDCP, except when the adjusted items are paid for as extra work.

No adjustment in compensation will be made to the contract lump sum price paid for Temporary Storm water Run-on Bypass and Excavation Dewatering due to differences between the quantities shown in the approved Cost Break Down and the quantities required to complete the work as shown on the approved NSDCP. No adjustment in compensation will be made for ordered changes to correct NSDCP work resulting from the Contractor's own operations or from the Contractor's negligence.

The approved Cost Break Down will be used to determine partial payments during the progress of the work and as the basis for calculating the adjustment in compensation for the item of Temporary Storm water Run-on Bypass and Excavation Dewatering due to increases or decreases of quantities ordered by the Engineer. When an ordered change increases or decreases the quantities of an approved Cost Break Down item, the adjustment in compensation will be determined in the same manner specified for increases and decreases in the quantity of a contract item of work in conformance with the provisions in Section 4 1.03B, "Increased or Decreased Quantities," of the Standard Specifications. If an ordered change requires a new item which is not on the approved Cost Break Down, the adjustment in compensation will be determined in the same manner specified for extra work in conformance with Section 4 1.03D, "Extra Work," of the Standard Specifications.

If requested by the Contractor and approved by the Engineer, changes to the items listed in the approved Cost Break Down, including addition of new water pollution control practices, will be allowed. Changes shall be included in the approved amendment of the NSDCP. If the requested changes result in a net cost increase to the lump sum price for Temporary Storm water Run-on Bypass and Excavation Dewatering, an adjustment in compensation will be made without change to the Temporary Storm water Run-on Bypass and Excavation Dewatering item. The net cost increase to the water pollution control item will be paid for as extra work as provided in Section 4 1.03D, "Extra Work," of the Standard Specifications.

Spill Contingency

The Contractor shall prepare and submit to the Engineer a Spill Contingency Plan concurrently with the NSDCP, described in this section for the management of spills or leaks of any materials or wastes that may impact the water quality of the receiving water body.

The contingency plan shall include instructions and procedures for preventing spills, reporting spills, and a list of spill containment and collection materials and equipment to be maintained onsite. The contingency plan shall be reviewed and updated as directed by the Engineer.

If any hazardous substance is discharged in or on any waters of the state, or discharged and deposited where it is, or probably will be discharged in or on any receiving waters, the discharger shall report such a discharge to the Engineer, at (510) 622-2300 on weekdays during office hours from 8 a.m. to 12 p.m. and 1 p.m. to 5 p.m., and to the Office of Emergency Services at (800) 852 7550 during non office hours. A written report shall be filed with the Engineer within two (2) working days and shall contain information relative to:

1. Nature of waste or pollutant,
2. Quantity involved,
3. Duration of incident,
4. Cause of spilling,
5. Spill Prevention, Control, and Countermeasure Plan (SPCC) in effect, if any,
6. Estimated size of affected area,
7. Nature of effects (i.e., fish kill, discoloration of receiving water, etc.),
8. Corrective measures that have been taken or planned, and a schedule of these activities, and
9. Persons/agencies notified.

Liquids, Residues, And Debris

The Contractor shall not allow for any slurries, liquids, residues and debris associated with the operations to cause contamination of the project site. The control and disposal of the liquids, residues, and debris shall be described within the NSDCP. The NSDCP shall, at a minimum, depict and describe the procedural and structural methods of detaining, collecting, and disposing of all slurries, liquids, residues, and debris associated with the operations.

Attention is directed to "Explosive Materials", "Delivery Storage and Handling", "Blasting" in Section 6-8.01 "Blasting," for selection, delivery, storage and handling of explosive material, and spill prevention procedures. The Contractor shall prevent any spillage of explosive material from commingling with non-storm water or storm water.

Redundancy shall be incorporated into the procedural and structural methods such that the liquids, residues, and debris are not conveyed into or become present in receiving waters, drainage systems, or other water bodies.

No adjustment in compensation will be made for ordered changes to correct NSDCP work resulting from the Contractor's own operations or from the Contractor's negligence.

PAYMENT

The contract lump sum price paid for temporary storm water run-on bypass and excavation dewatering shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in this section, complete in place, including preparing and amending the NSDCP; conforming to the requirements of the approved NSDCP including preparation of the NOI and all submittals required in this section, payment of all fees associated with the discharge including permit fees; except for Blasting Plan; furnishing, installing, operating, maintaining, and removing all components of the collection and conveyance system, pretreatment measures, and the TNSWTS; providing power to operate all equipment; collecting, conveying, treating, disposing and reusing treated non-storm water, including off-site disposal of solids removed from the TNSWTS and additional monitoring of solids required for off-site disposal; consumables including but not limited to chemicals used in the various components of the treatment system; implementation and maintenance of temporary BMPs identified in the SRBP; implementing the TNSWTS Operation, Maintenance and Contingency Plan; implementing the MRP including sample collection, laboratory analysis, preparing and submitting the monitoring reports, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer.

Full compensation for conforming to "Spill Contingency" and "Liquids, Residues, And Debris" shall be considered as included in the prices paid for the various contract items of work involved and no additional compensation will be allowed therefor.

Chart No. 1																										
Freeway/Expressway Lane Requirements																										
County: CC/Ala					Route/Direction: Rte 24 Westbound										KP: CC 3.41/ALA 5.05:											
Closure Limits: From Camino Pablo on-ramp to Claremont Ave. UC (Excluding the Bores).																										
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays	1	1	1	1																		3	3	3	3	2
Fridays	1	1	1	1																			3	3	3	3
Saturdays	1	1	1	1	2	2	3	3														3	3	3	2	
Sundays	1	1	1	1	1	2	2	2	3														3	3	1	
Legend:																										
1 Provide at least one through freeway lane open in direction of travel.																										
2 Provide at least two adjacent through freeway lanes open in direction of travel.																										
3 Provide at least three adjacent through freeway lanes open in direction of travel.																										
Work permitted within project right of way where shoulder or lane closure is not required.																										
REMARKS Implement with Caldecott Tunnel Maintenance Crew when closing at or close to Caldecott Tunnel.																										

Chart No. 2																										
Freeway/Expressway Lane Requirements																										
County: CC/Ala					Route/Direction: Rte 24 / Eastbound										KP: ALA 5.05/CC 3.41											
Closure Limits: From Claremont Ave. UC to Camino Pablo on-ramp (Excluding the Bores).																										
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays	1	1	1	1	1	2																		3	3	2
Fridays	2	1	1	1	1	2																			3	3
Saturdays	2	2	1	1	1	1	2	2	3	3												3	3	3	3	3
Sundays	2	2	1	1	1	1	1	2	2	3													3	2	2	
Legend:																										
1 Provide at least one through freeway lane open in direction of travel.																										
2 Provide at least two adjacent through freeway lanes open in direction of travel.																										
3 Provide at least three adjacent through freeway lanes open in direction of travel.																										
Work permitted within project right of way where shoulder or lane closure is not required.																										
REMARKS Implement with Caldecott Tunnel Maintenance Crew when closing at or close to Caldecott Tunnel																										

Chart No. 2a Freeway/Expressway Lane Requirements																										
County: CC/Ala					Route/Direction: Rte 24 Westbound										KP: CC 0.48/ALA 8.66											
Closure Limits: From Caldecott Tunnel to NB Rte 13 (Ashby Ave.) off-ramp																										
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays																										
Fridays																										
Saturdays																								2	2	2
Sundays	2	2	2	2	2	2	2	2	2	2	2															
Legend:																										
<input type="checkbox"/> 2 Provide at least two adjacent through freeway lanes open in direction of travel.																										
<input type="checkbox"/> Work permitted within project right of way where shoulder or lane closure is not required.																										
REMARKS																										
1. Implement with Caldecott Tunnel Maintenance Crew when closing at or close to Caldecott Tunnel. 2. May be closed for drainage crossover work after 4 th bore is opened to traffic only. 3. Respective tunnel bore must be closed simultaneously with lane closure.																										

Chart No. 3 Freeway/Expressway Lane Requirements																										
County: CC/Ala					Route/Direction: Rte 24 /Eastbound										KP: ALA 9.41/CC 0.56											
Closure Limits: Caldecott Tunnel Bore 1 or 2 (close one bore at a time).																										
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays	X	X	X	X	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	X
Fridays	X	X	X	X	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Saturdays	X	X	X	X	X	X	X	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Sundays	X	X	X	X	X	X	X	X	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	X
Legend:																										
<input type="checkbox"/> X Bore 1 or 2 full closure (close one bore at a time).																										
<input type="checkbox"/> N No work permitted.																										
REMARKS Implement with Caldecott Tunnel Maintenance Crew when closing at or close to Caldecott Tunnel																										

Chart No. 4 Freeway/Expressway Lane Requirements																									
County: CC/Ala							Route/Direction: Rte 24 Westbound							KP: CC 0.56/ALA 9.41											
Closure Limits: Caldecott Tunnel Bore 3 Closure																									
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays	X	X	X	X	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	X	X
Fridays	X	X	X	X	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	X
Saturdays	X	X	X	X	X	X	X	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	X
Sundays	X	X	X	X	X	X	X	X	X	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	X

Legend:

X Bore 3 full closure.

N No work permitted.

REMARKS:

- Implement with Caldecott Tunnel Maintenance Crew when closing at or close to Caldecott Tunnel.
- Implement for the following operations only:
 - Breakthroughs for the construction of the tunnel cross passages, installation of tunnel cross passage doors, traffic barriers at the tunnel cross passages and conduit and lighted signs above new cross passage doors in Bore 3.
 - Installation of overhead signs, installation and removal of netting, approach work at each end of tunnel.
 - Traffic Operations System elements in Bore 3 including CCTV cameras, variable message signs, conduit, wiring, and appurtenances.
 - Transfer of power supply at Bore 3 substation from the existing switchboard to temporary power and from temporary power to permanent power.

Chart No. 4a Freeway/Expressway Lane Requirements																									
County: CC/Ala							Route/Direction: Rte 24 /Eastbound							KP: ALA 9.41/CC 0.56											
Closure Limits: Caldecott Tunnel Bore 2 Completely Closed in Closure Limits																									
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays	X	X	X	X	X	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Fridays	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	X	X
Saturdays	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sundays	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Legend:

X Bore 2 full closure

N No work permitted

REMARKS:

- Implement with Caldecott Tunnel Maintenance Crew when closing at or close to Caldecott Tunnel.
- Weekend closure only after 4th Bore is open.
- Use of this chart is subject to approval by District Lane Closure Review Committee.

Chart No. 5																										
Complete Ramp Closure Hours/Ramp Lane Requirements																										
County: CC					Route/Direction: Rte 24 Westbound										KP: CC 1.56											
Closure Limits: On the Gateway Blvd. on-ramp.																										
FROM HOUR TO HOUR																										
	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays	C	C	C	C	C																			C	C	C
Fridays	C	C	C	C	C																			C	C	C
Saturdays	C	C	C	C	C	C	C	C	C	C												C	C	C	C	C
Sundays	C	C	C	C	C	C	C	C	C	C	C											C	C	C	C	C
Legend:																										
<input type="checkbox"/> C Ramp may be closed completely.																										
<input type="checkbox"/> Work permitted within project right of way where shoulder or lane closure is not required.																										
REMARKS SEE DETOUR NO. 1																										

Chart No. 6																										
Complete Ramp Closure Hours/Ramp Lane Requirements																										
County: CC					Route/Direction: Rte 24 Westbound										KP: CC 1.05											
Closure Limits: On the Fish Ranch. off-ramp.																										
FROM HOUR TO HOUR																										
	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays	C	C	C	C	C																			C	C	C
Fridays	C	C	C	C	C																			C	C	C
Saturdays	C	C	C	C	C	C	C	C	C	C													C	C	C	C
Sundays	C	C	C	C	C	C	C	C	C	C													C	C	C	C
Legend:																										
<input type="checkbox"/> C Ramp may be closed completely.																										
<input type="checkbox"/> Work permitted within project right of way where shoulder or lane closure is not required.																										
REMARKS: SEE DETOUR NO. 2																										

Chart No. 7																												
Complete Ramp Closure Hours/Ramp Lane Requirements																												
County: CC					Route/Direction: Rte 24 Westbound										KP: CC 0.95													
Closure Limits: On the Fish Ranch. on -ramp.																												
FROM HOUR TO HOUR																												
	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
Mondays through Thursdays	C	C	C	C	C																			C	C	C		
Fridays	C	C	C	C	C																				C	C	C	
Saturdays	C	C	C	C	C	C	C	C	C	C	C													C	C	C	C	
Sundays	C	C	C	C	C	C	C	C	C	C	C													C	C	C	C	C
Legend:																												
<input type="checkbox"/> C Ramp may be closed completely.																												
<input type="checkbox"/> Work permitted within project right of way where shoulder or lane closure is not required.																												
REMARKS: SEE DETOUR NO. 3																												

Chart No. 7a																												
Complete Ramp Closure Hours/Ramp Lane Requirements																												
County: CC					Route/Direction: Rte 24 Westbound										KP: CC 0.95													
Closure Limits: On the Fish Ranch. on -ramp.																												
FROM HOUR TO HOUR																												
	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
Mondays through Thursdays	C	C	C	C	C																							
Fridays																										C	C	C
Saturdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
Sundays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
Legend:																												
<input type="checkbox"/> C Ramp may be closed completely.																												
<input type="checkbox"/> Work permitted within project right of way where shoulder or lane closure is not required.																												
REMARKS: May be closed for ramp realignment only See Detour No. 3																												

Chart No. 8																											
Complete Ramp Closure Hours/Ramp Lane Requirements																											
County: CC					Route/Direction: Rte 24 Eastbound										KP: CC 1.95												
Closure Limits: On the Fish Ranch. on -ramp.																											
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
Mondays through Thursdays	C	C	C	C	C																			C	C	C	
Fridays	C	C	C	C	C																				C	C	
Saturdays	C	C	C	C	C	C	C	C																	C	C	
Sundays	C	C	C	C	C	C	C	C	C																C	C	C
Legend:																											
<input type="checkbox"/> C Ramp may be closed completely.																											
<input type="checkbox"/> Work permitted within project right of way where shoulder or lane closure is not required.																											
REMARKS: SEE DETOUR NO. 4																											

Chart No. 9																												
Complete Ramp Closure Hours/Ramp Lane Requirements																												
County: CC					Route/Direction: Rte 24 Eastbound										KP: CC 2.17													
Closure Limits: On Gateway Blvd.. on -ramp.																												
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
Mondays through Thursdays	C	C	C	C	C	C																			C	C	C	
Fridays	C	C	C	C	C	C																			C	C	C	
Saturdays	C	C	C	C	C	C	C	C																		C	C	
Sundays	C	C	C	C	C	C	C	C	C																	C	C	C
Legend:																												
<input type="checkbox"/> C Ramp may be closed completely.																												
<input type="checkbox"/> Work permitted within project right of way where shoulder or lane closure is not required.																												
REMARKS: SEE DETOUR NO. 5																												

Chart No. 10 Complete Ramp Closure Hours/Ramp Lane Requirements																																
County: Ala					Route/Direction: Rte 24 Westbound										KP: ALA 9.14																	
Closure Limits: On the Caldecott Lane/Tunnel Road off-ramp																																
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																																
Mondays through Thursdays					C	C	C	C	C	C																C	C	C	C			
Fridays					C	C	C	C	C	C																			C	C	C	C
Saturdays					C	C	C	C	C	C	C	C	C	C														C	C	C	C	C
Sundays					C	C	C	C	C	C	C	C	C	C	C													C	C	C	C	C
Legend:																																
<input type="checkbox"/> C Ramp may be closed completely.																																
<input type="checkbox"/> Work permitted within project right of way where shoulder or lane closure is not required.																																
REMARKS:																																

Chart No. 11 Complete Ramp Closure Hours/Ramp Lane Requirements																																
County: Ala					Route/Direction: Rte 24 Westbound										KP: ALA 9.14																	
Closure Limits: On the Caldecott Lane/Tunnel Road off-ramp																																
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																																
Mondays through Thursdays					C	C	C	C	C	C																						
Fridays																													C	C	C	C
Saturdays					C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
Sundays					C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
Legend:																																
<input type="checkbox"/> C Ramp may be closed completely.																																
<input type="checkbox"/> Work permitted within project right of way where shoulder or lane closure is not required.																																
REMARKS: May be closed in the weekend for ramp realignment only.																																

Chart No. 12 Complete Ramp Closure Hours/Ramp Lane Requirements																																								
County: Ala										Route/Direction: Rte 24 Westbound										KP: ALA 8.99																				
Closure Limits: On the Caldecott Lane/Tunnel Road On-ramp.																																								
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																																								
Mondays through Thursdays										C	C	C	C	C																C	C	C								
Fridays										C	C	C	C	C																			C	C	C					
Saturdays										C	C	C	C	C	C	C	C	C	C																C	C	C	C	C	C
Sundays										C	C	C	C	C	C	C	C	C	C	C															C	C	C	C	C	C
Legend:																																								
<input type="checkbox"/> C Ramp may be closed completely.																																								
<input type="checkbox"/> Work permitted within project right of way where shoulder or lane closure is not required.																																								
REMARKS: SEE DETOUR PLAN NO. 6																																								

Chart No. 12a Complete Ramp Closure Hours/Ramp Lane Requirements																																									
County: Ala										Route/Direction: Rte 24 Eastbound										KP: ALA 9.22																					
Closure Limits: On the Tunnel Road – Frontage Road on-ramp																																									
FROM HOUR TO HOUR 24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																																									
Mondays through Thursdays										C	C	C	C	C	C																				C	C	C	C			
Fridays										C	C	C	C	C	C																					C	C	C	C		
Saturdays										C	C	C	C	C	C	C	C	C	C	C																C	C	C	C	C	C
Sundays										C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Legend:																																									
<input type="checkbox"/> C Ramp may be closed completely.																																									
<input type="checkbox"/> Work permitted within project right of way where shoulder or lane closure is not required.																																									
REMARKS: See Detour Plan NO. 8																																									

Chart No. 13																													
Complete Ramp Closure Hours/Ramp Lane Requirements																													
County: Ala							Route/Direction: Rte 24 Westbound										KP: ALA 8.99												
Closure Limits: On the Caldecott Lane/Tunnel Road On-ramp.																													
FROM HOUR TO HOUR																													
24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																													
Mondays through Thursdays							C	C	C	C																			
Fridays																									C	C	C		
Saturdays							C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Sundays							C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
Legend:																													
<input type="checkbox"/> C Ramp may be closed completely.																													
<input type="checkbox"/> Work permitted within project right of way where shoulder or lane closure is not required.																													
REMARKS																													
1. May be closed in the weekend for ramp realignment only. 2. See Detour Plan No. 6																													

Chart No. 13a																													
Complete Ramp Closure Hours/Ramp Lane Requirements																													
County: Ala							Route/Direction: Rte 24 Westbound										KP: ALA 8.66												
Closure Limits: At NB Rte 13 (Ashby Ave.) off-ramp																													
FROM HOUR TO HOUR																													
24 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																													
Mondays through Thursdays																													
Fridays																													
Saturdays																										C	C	C	
Sundays							C	C	C	C	C	C	C	C	C	C													
Legend:																													
<input type="checkbox"/> C Ramp may be closed completely.																													
<input type="checkbox"/> Work permitted within project right of way where shoulder or lane closure is not required.																													
REMARKS: With Caldecott Lane off-ramp as the designated detour, advance Changeable Message Signs are required, at east and west of the Caldecott Tunnel.																													

Chart No. 14																										
Complete Ramp Closure Hours/Ramp Lane Requirements																										
County: Ala							Route/Direction: Rte 13 Northbound										KP: ALA 8.47									
Closure Limits: NB Rte 13 to EB Rte 24 Connector.																										
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays		C	C	C	C	C	C	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	C
Fridays		C	C	C	C	C	C	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Saturdays		C	C	C	C	C	C	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Sundays		C	C	C	C	C	C	C	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	C
Legend:																										
C		Ramp may be closed completely.																								
N		Work permitted within project right of way where shoulder or lane closure is not required.																								
REMARKS: SEE DETOUR PLAN NO. 7																										

Chart No. 15																										
Complete Ramp Closure Hours/Ramp Lane Requirements																										
County: Ala							Route/Direction: Rte 24 Eastbound										KP: ALA 9.08									
Closure Limits: On the Frontage Road off-ramp																										
FROM HOUR TO HOUR		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays		C	C	C	C	C	C															C	C	C	C	C
Fridays		C	C	C	C	C	C															C	C	C	C	C
Saturdays		C	C	C	C	C	C	C	C	C	C	C	C			C	C	C	C	C	C	C	C	C	C	C
Sundays		C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
Legend:																										
C		Ramp may be closed completely.																								
		Work permitted within project right of way where shoulder or lane closure is not required.																								
REMARKS: Advance Changeable Message Signs are required, at east of Broadway off-ramp to inform motorist of closure and use the Broadway off-ramp.																										

REMOVE POP-UP SYSTEM

Existing pop-up system, where shown on the plans to be removed, shall be removed and disposed of.

Full compensation for removing steel plate covers, connection box, valve box, versa-valve box, and abandoning existing airliner for pop-up system shall be considered as included in the contract lump sum price paid for remove pop-up system and no separate payment will be made therefor.

Full compensation for concrete backfill shall be considered as included in the contract price paid per cubic meter for minor concrete (backfill) and no separate payment will be made therefor.

BID ITEM LIST
04-294914

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
161	560239	FURNISH SINGLE SHEET ALUMINUM SIGN (2.0 MM-UNFRAMED)	M2	24		
162	560241	FURNISH SINGLE SHEET ALUMINUM SIGN (1.6 MM-FRAMED)	M2	3		
163	560242	FURNISH SINGLE SHEET ALUMINUM SIGN (2.0 MM-FRAMED)	M2	6		
164	015828	1372 MM CAST-IN-DRILLED-HOLE CONCRETE PILE (MICROWAVE TOWER FOUNDATION)	M	4.5		
165	561015	1524 MM CAST-IN-DRILLED-HOLE CONCRETE PILE (SIGN FOUNDATION)	M	27		
166	566011	ROADSIDE SIGN - ONE POST	EA	13		
167	566012	ROADSIDE SIGN - TWO POST	EA	5		
168	568016	INSTALL SIGN PANEL ON EXISTING FRAME	M2	110		
169 (F)	575004	TIMBER LAGGING	M3	133.1		
170	041738	TIMBER WITH SOUNDPROOFING	M2	3572		
171	041739	CLEAN AND PAINT STEEL SOLDIER PILING	LS	LUMP SUM	LUMP SUM	
172	620904	300 MM ALTERNATIVE PIPE CULVERT	M	55		
173	620910	450 MM ALTERNATIVE PIPE CULVERT (TYPE A)	M	1400		
174	620911	450 MM ALTERNATIVE PIPE CULVERT (TYPE B)	M	220		
175	620914	600 MM ALTERNATIVE PIPE CULVERT (TYPE A)	M	300		
176	620915	600 MM ALTERNATIVE PIPE CULVERT (TYPE B)	M	200		
177	620916	600 MM ALTERNATIVE PIPE CULVERT (TYPE C)	M	330		
178	620919	750 MM ALTERNATIVE PIPE CULVERT	M	170		
179	041740	TUNNEL AND PORTAL DRAINAGE (REINFORCED CONCRETE PIPE)	M	1013		
180	041741	DRAINAGE INLET (PORTAL AND TUNNEL)	EA	18		

BID ITEM LIST
04-294914

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
201	800386	CHAIN LINK FENCE (TYPE CL-1.2, VINYL-CLAD)	M	70		
202	800391	CHAIN LINK FENCE (TYPE CL-1.8)	M	460		
203	015829	ANCHORED WIRE MESH SYSTEM	M2	1110		
204	810111	SURVEY MONUMENT (TYPE A)	EA	9		
205	820118	GUARD RAILING DELINEATOR	EA	54		
206	820130	OBJECT MARKER	EA	10		
207	015830	CONCRETE BARRIER MARKER	EA	150		
208	832002	METAL BEAM GUARD RAILING (STEEL POST)	M	480		
209	015831	WEED CONTROL MAT (RUBBER)	M2	860		
210 (F)	839521	CABLE RAILING	M	559		
211	839541	TRANSITION RAILING (TYPE WB)	EA	5		
212	839581	END ANCHOR ASSEMBLY (TYPE SFT)	EA	8		
213	839585	ALTERNATIVE FLARED TERMINAL SYSTEM	EA	13		
214	839604	CRASH CUSHION (REACT 9CBB)	EA	1		
215	839605	CRASH CUSHION (REACT 9SCBS)	EA	1		
216	839701	CONCRETE BARRIER (TYPE 60)	M	700		
217	839702	CONCRETE BARRIER (TYPE 60A)	M	90		
218	839703	CONCRETE BARRIER (TYPE 60C)	M	750		
219	839704	CONCRETE BARRIER (TYPE 60D)	M	270		
220	839705	CONCRETE BARRIER (TYPE 60E)	M	220		

