STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ADDENDUM NO. 1
for

HANA HIGHWAY IMPROVEMENTS
HUELO TO HANA, PHASE 2A

PROJECT NO. 360AB-01-09

DISTRICT OF HANA

ISLAND OF MAUI

2014

The following amendments shall be made to the Bid Documents:

A. SPECIAL PROVISIONS

1. Replace the original **Table of Contents** dated 04/29/14 with new **Table of Contents** dated r06/10/14.

2. **Notice To Bidders:** Delete the second to last sentence of the third paragraph reading "Plans, specifications, proposal, and contract contain base bid items and additive alternate bid items."

3. Add **Section 695 – Portable Concrete Barriers** dated 06/10/14 to the special provisions.

B. PROPOSAL

1. Replace original **Proposal Schedule,** pages **P-11** through **P-14,** dated April 2014 with new **Proposal Schedule,** pages **P-11** through **P-14,** dated r06/10/14.

C. PLANS

1. Replace sheet **20** with **ADD. 20** dated r6/10/14.

2. Replace sheet **24** with **ADD. 24** dated r6/10/14.

3. Replace sheet **35** with **ADD. 35** dated r6/10/14.

4. Add sheet **ADD. 47 S-1** dated 6/10/14.

5. Add sheet **ADD.47 S-2** dated 6/10/14.

D. ATTACHMENTS

Attached, for your information:

1. Meeting minutes and attendance list from the October 17, 2012 non-mandatory pre-bid meeting.
2. Draft Storm Water Pollution Prevention Plan.

E. RFI AND RESPONSES

See attached for RFI and responses.

Please acknowledge receipt of this Addendum No. 1 by recording the date of its receipt in the space provided on page P-4 of the Proposal.

Ford N. Fuchigami
Interim Director of Transportation

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END OF TABLE OF CONTENTS

Make this Section a part of the Standard Specifications:

"SECTION 695 - PORTABLE CONCRETE BARRIER AND INERTIAL BARRIER SYSTEM

695.01 Description. This section is for furnishing, hauling, installing, maintaining, relocating, and subsequently removing portable concrete barriers and inertial barrier systems according to the contract documents.

695.02 Materials.

(A) Portable Concrete Barriers. Materials shall meet the requirements specified in the following subsections of Division 700 - Materials.

Reinforcing Steel	709.01
Structural Steel	713.01
High-Strength Bolts and Studs	718.02
Nuts	718.03
Washers	718.04
Reflector Marker	750.07
Preformed Pavement Marking Tape	755.04

(B) Inertial Barrier Systems (Portable Concrete Barrier End Treatment).

(1) Container. The Inertial Barrier shall consist of modules in 200, 400, 700, 1400, and 2100 lbs. sizes. 200, 400, 700 and 1400 lbs. modules shall consist of a container molded in one piece with a minimum capacity of 21 cubic feet. The material shall be durable, weatherproof, and shall be formulated to resist deterioration from ultraviolet rays. The color shall be yellow. This model must be of continuous molded construction and be nestable. The modules shall be designed and manufactured from a frangible polyethylene material which shall shatter upon impact to permit dispersion of the sand mass container within.

(2) Lid. Each module shall have a black lid which locks securely over the top lip of the outer container. Material shall be durable, weatherproof, and shall be formulated to resist deterioration from ultraviolet rays.

(3) Insert. All 200, 400 and 700 lbs. modules will require a cone-shaped supporting insert used to support various sand masses. Cone inserts shall be of one-piece molded construction and be nestable.

(4) Sand. Sand placed into these modules should be washed concrete sand conforming to ASTM-C-33 or equal.

Each Inertial Barrier System array shall be configured to provide a satisfactory average rate of deceleration (8 g's maximum preferred for each row) for errant vehicles in the weight ranges of 1810 to 4410 lbs. The inertial barrier system shall meet the requirements of NCHRP 350 for Test Level 3 for non-redirective gating crash cushions. For impact vehicles weighing between 1810 and 4410 lbs. and traveling at speeds of up to 62 mph, the maximum 24-inch occupant fail space velocity shall be less than 39 ft/sec and the vehicles' highest 10 millisecond occupants' ride-down acceleration shall be less than 20 g's.

The center of gravity of each properly filled module shall be at a height which will aid in controlling the pitch of standard passenger vehicles.

The components of the modules shall interface to prevent leakage of sand contained therein. The interface shall, however, permit drainage of excess water contained within the sand mass.

695.03 Construction Requirements.

(A) Portable Concrete Barriers.

(1) Fabrication. Construct the contractor furnished portable concrete barriers in accordance with contract plans and as modified herein. The barriers shall be in 20 - foot segments. The identification and date of design shall be placed at the location shown in the plans. Modify date of design "Oct 2001" to "Oct 2001A". Prior to fabrication of the portable concrete barrier, submit detailed shop drawings to the Engineer for acceptance.

(a) Forms. Forms shall be according to Section 503 - Concrete Structures.

(b) Concrete. Use 5000 psi concrete with synthetic structural fiber reinforcement (structural fiber). Use an amount of structural fiber that will result in an average residual strength of 265 pounds per square inch. ASTM C1399 shall determine average residual strength. Structural fiber shall be a system made of a twisted bundle combination of fully-oriented non-fibrillation monofilament and a fibrillating copolymer/polypropylene network fiber system. All material shall be 100% virgin material and shall be non-corrosive, non-magnetic and be 100% alkali proof. The fibers shall have a tensile strength not less than 90 ksi.

Structural fiber shall have a nominal length of 2-¼", gray in color to match the concrete and comply with or exceed ASTM C-1116. It shall have an aspect ratio (length divided by the equivalent diameter of the fiber) between 115 and 165. The Engineer has determined and accepted that 7.5 pounds of Forta Ferro® fiber per cubic yard of concrete will result in 265 pounds per square inch average residual strength. When structural fiber is specified in pounds per cubic yard of concrete, it shall mean the specified dosage is an amount of Forta Ferro® fiber that will provide the required average residual strength. The dosage of another manufacture's structural fiber may not have the same results and shall be adjusted and accounted for. No additional compensation will be granted for the additional weight of fiber.

(c) Placing Concrete. Moisten the form thoroughly and immediately prior to the placing of the concrete. Place the concrete in accordance with Section 503 - Concrete Structures.

(d) Curing. Steam or water-cure the portable concrete barriers in accordance with Subsection 504.03(G) - Curing.

(e) Handling. Do not handle the portable concrete barriers until the concrete has attained a compressive strength of more than 3,000 pounds per square inch. Use the lifting holes to hoist the portable concrete barrier. Do not use the drainage slots that are located at the bottom of the barrier to lift or move barricades. Repair or replace units damaged by improper handling at no increase in contract price and contract time.

The Engineer will permit stacking of precast units with prior acceptance by the Engineer of the method to be employed by the Contractor.

(f) Accessories. Furnish, install maintain one RM-2 reflector marker on top of the concrete barrier (not RM-3 as shown on the Standard Plan), a longitudinal 4-inch by 20 feet permanent preformed pavement marking tape, Type I (color to match appropriate roadway pavement stripe) on the lower sloped side of the barrier facing traffic, and a steady burn amber lamp on each barrier unit. The longitudinal 4-inch permanent preformed pavement marking tape shall be installed on a surface that has the tape's manufacturer's recommended primer applied to it in a manner acceptable to the manufacturer and the Engineer.

Type II Barricade with a steady burn amber lamp on each barricade in accordance with MUTCD Chapter 6.

(g) Ownership. Upon completion of the project, the portable concrete barriers and the portable concrete barrier end treatments shall become the property of the Department of Transportation, Highways Division, Maui District. Prior to fabrication of the portable concrete barrier, submit detailed shop drawings to the Engineer for acceptance.

(2) Installation. Erect all units as shown on the contract documents or as specified by the Engineer. Set the units in a vertical position, closely following the roadway grade. The units shall have a maximum of 1/4-inch offset in any direction between adjacent panels at the connections.

Horizontal alignment of the panels shall be such that any panel is not out of alignment by more than 1/2-inch from straight line. Furnish and install steel pins for connecting the barrier sections according to contract documents.

Do not leave barrier ends exposed to traffic, and shall provide treatment that complies with NCHRP 350 Test Level 3 criteria. Do not mix portable concrete barriers not constructed in accordance with the October 2001A design with barriers with newly constructed units within the same barrier installation.

Relocate any units or existing barriers during construction at the locations shown in the contract documents or as ordered by the Engineer.

Upon completion of the work, clean, repair, remove, haul, off load and store all units at the location shown in the contract documents or as ordered by the Engineer. If the final designation is not available when the units are ready to be removed, haul the units to an interim location or to an alternate Engineer designated location at no additional cost to the State.

The cleaning and repair of the units shall be performed regardless of cause, such as accidents, 'wear and tear' or improper handling by the Contractor during use. Repair all damaged unit back to its original configuration, i.e., undamaged condition. A damaged unit that, in the judgment of the Engineer, is considered irreparable shall be replaced with a new unit at no increase in contract price or contract time. The Engineer will inspect and find if all units are acceptable at the storage area designated in the contract documents or at a location designated by the Engineer. Any unit that is not cleaned or repaired to an acceptable condition shall be removed from the designated storage site and not returned until is made acceptable.

(3) Type II Barricades. Furnish, install and maintain Type II Barricades with lamp as channelizing devices. Spacing shall be in accordance with the requirements of MUTCD part 6. Their position shall comply with MUTCD Typical Application 5, found in part 6.

(B) Inertial Barrier System (Portable Concrete Barrier End Treatment).

(1) The portable concrete barrier end treatment shall be a non-redirective, energy-absorbing terminal providing impact protection. It shall meet NCHRP 350, Test Level 3 criteria for Non-Redirective Crash Cushions, as accepted by FHWA. Submit a brochure of the product to be used for acceptance by the Engineer prior to ordering the end treatment.

(2) The portable concrete barrier end treatment shall be designed for easy attachment to and removal from the end of the concrete barrier. The nose of the system shall be equipped with a chevron sign, a crash cushion object marker (CCOM) which shall be reversible to match the corresponding traffic direction.

(3) Installation and use of the end treatment shall be consistent with shy-line and placement guidelines specified in the current edition of the AASHTO Roadside Design Guide.

(4) Provide, install, and maintain a NCHRP 350 compliant end treatment compatible with the barrier units. The end treatment shall be attached and installed in compliance with the manufacturers instructions. If requested by the Engineer, provide three copies of the maintenance and operational manual for the end treatments along with an instructional class for State personnel on the installation and removal of the end treatment.

(5) Haul the portable concrete barrier end treatment to the project site. Prepare the beds and set the portable concrete barrier end treatment at a location shown in the contract documents or as directed by the Engineer.

(6) Furnish, install, and maintain attachment for connecting the portable concrete barrier end treatment to the barrier unit.

(7) Furnish install and maintain crash cushion object marker (CCOM) on each portable concrete barrier end treatment in accordance with the contract documents.

(8) Relocate the portable concrete barrier end treatment during construction at the locations shown in the contract documents or as ordered by the Engineer.

(9) Upon completion of the work, clean, repair, remove, haul, off load and store the portable concrete barrier end treatment at the location shown in the contract documents or as ordered by the Engineer. If the final destination is not available when the units are ready to be removed, haul the units to an interim location or to an alternate Engineer designated location at no increase in contract price or contract time.

The cleaning and repair of the portable concrete barrier end treatments shall be performed regardless of cause, such as 'wear and tear' or improper handling by the Contractor during use. Repair shall include replacement of all damaged portions of the portable concrete barrier end treatment back to its original configuration. A portable concrete barrier end treatment damaged that, in the judgment of the Engineer, is considered irreparable shall be replaced with a new portable concrete barrier end treatment at no increase in contract price or contract time. All portable concrete barrier end treatments will be inspected and found acceptable by the Engineer before returning them to the area designated in the contract documents or as directed by the Engineer.

(10) The portable concrete barrier end treatment shall become the property of the Contractor after project completion.

(C) Pavement Striping and Markers for Lane Shifting.

Furnish and install pavement striping and markings according to Section 629 - Pavement Markings, Subsection 629.03(C). Do not use temporary pavement striping and markers. Striping shall be done in accordance with the contract documents or as directed by the Engineer. If no striping plan is provided, submit striping plan for review and acceptance by the Engineer a minimum of14 days prior to the setting of the units. Upon completion of the contract work, remove the lane shift striping and markers, and restore original striping and markers in accordance with the contract documents or as directed by the Engineer.

695.04 Method of Measurement. The Engineer will measure portable concrete barriers and inertial barriers per each.

The Engineer will not measure installing, maintaining, and subsequently removing lane shift pavement striping and markers for payment.

695.05 Basis of Payment. The Engineer will pay for the accepted portable concrete barriers on a contract price per pay unit, as shown in the proposal schedule. The price includes full compensation for work prescribed in this section and the contract documents.

The Engineer will not pay for the accepted installing, maintaining, relocating, and subsequently removing the portable concrete barriers separately. The Engineer shall consider the cost for the accepted installing, maintaining, relocating, and subsequently removing the portable concrete barriers as included in the contract price of the contractor furnished portable concrete barriers. The price includes full compensation for preparing beds; hauling and setting portable concrete barriers; installing connector pins; maintaining reflector markers, lamps, and permanent preformed pavement marking tape; cleaning and relocating portable concrete barriers during construction; cleaning and hauling the portable concrete barriers after completion of the project to the Maui District Baseyard or to a place designated by the Engineer; and furnishing labor, materials, tools, equipment and incidentals necessary to complete the work.

The Engineer will pay for the accepted inertial barrier modules on a contract price per pay unit, as shown in the proposal schedule. The price includes full compensation for work prescribed in this section and the contract documents.

The Engineer will not pay for the accepted installing, maintaining, relocating, and subsequently removing the inertial barrier modules separately. The Engineer shall consider the cost for the accepted installing, maintaining, relocating, and subsequently removing the inertial barrier modules as included in the contract price of the portable concrete barriers. The price includes full compensation for submitting a list of materials and equipment to be incorporated in the work; grading and compacting the ground; furnishing, assembling, and installing an inertial barrier system; relocating inertial barrier modules to locations specified in the contract; filling each installed inertial barrier module with sand; removal and disposal of sand; cleaning and hauling the empty modules to the designated locations or as directed by the engineer upon completion of the project, and furnishing labor, materials, tools, equipment and incidentals necessary to complete the work.

The Engineer will not pay for the accepted pavement striping and markers for lane shifting separately. The Engineer will consider the cost for the accepted pavement striping and markings for lane shifting as included in the contract price of the portable concrete barriers. The price includes full compensation for submitting the striping plans; removing the existing pavement striping and markers; installing the lane shift pavement striping and markers; removing the lane shift striping and markers; and restore original striping and markers according to the contract or as directed by the Engineer; and furnishing labor, materials, tools, equipment and incidentals necessary to complete the work.

The Engineer will pay for each of the following pay items when included in the proposal schedule:

Portable Concrete Barrier	Each
Inertial Barrier System	Each

The Engineer will make partial payments as follows:

(1) Pay 40% of the amount bid when the barrier are furnished and delivered to the jobsite and prepared the ground for installation.

(2) Pay 20% of the amount bid when the barrier are assembled and installed at the initial location shown in the contract documents.

(3) Divide 30% of the amount bid by the number of months remaining in the contract. Pay that percentage each month, when barriers are satisfactorily relocated and maintained during construction, and damaged barriers replace.

(4) Pay the remainder of the contract amount upon removal and delivery of the barriers and modules after completion of the project or as directed by the Engineer."

END OF SECTION 695

PROPOSAL SCHEDULE

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
201.0100	Clearing and Grubbing	LS	LS	LS	$_____
202.0200	Removal of Existing Guardrail	LS	LS	LS	$_____
202.0300	Removal of Existing End Treatment	LS	LS	LS	$_____
202.0400	Removal of Existing Reflector Posts	LS	LS	LS	$_____
202.0600	Removal of Existing Earth Berm	LS	LS	LS	$_____
202.0700	Removal of Existing Jersey Barrier	LS	LS	LS	$_____
202.0800	Removal and Relocation of Existing Boulders	LS	LS	LS	$_____
202.0900	Removal of Existing Object Markers	LS	LS	LS	$_____
203.0100	Roadway Excavation	90	CY	$_____	$_____
205.1000	Structure Excavation for Initial and Final Wall Facing	LS	LS	LS	$_____
206.2030	Excavation for 24" Drainline	LS	LS	LS	$_____
209.1000	Installation, Maintenance, Monitoring and Removal of BMP	LS	LS	LS	$_____
209.2000	Additional Water Pollution, Dust, and Erosion Control	FA	FA	FA	$ 34,000.00
304.1000	Aggregate Base	LS	LS	LS	$_____

PROPOSAL SCHEDULE

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
401.0400	HMA Pavement, Mix No. IV, for Roadway	155	TON	$_____	$_____
401.0500	HMA Pavement, Mix No. IV, for Guardrail Mow Strip	40	TON	$_____	$_____
602.1000	Reinforcing Steel for Initial and Final Facing Wall	LS	LS	LS	$_____
603.6100	24-Inch Reinforced Concrete Pipe, Class 3	LS	LS	LS	$_____
603.7000	Bed Course Material for Culvert	LS	LS	LS	$_____
604.5000	Type 1A-9P Inlet, 4 Feet to 4.99 Feet	2	EA	$_____	$_____
604.6000	Type A SDMH, 4 Feet to 4.99 Feet	1	EA	$_____	$_____
604.7000	Type A SDMH, 7 Feet to 7.99 Feet	1	EA	$_____	$_____
606.3110	Guardrail, Type 3 W-Beam with Strong Posts	LS	LS	LS	$_____
606.7000	Terminal Section, Type A Flare	LS	LS	LS	$_____
606.7010	Terminal Section, Type G	LS	LS	LS	$_____
606.7020	Terminal Section, Modified Type G	LS	LS	LS	$_____
628.1000	Sculpted and Stained Shotcrete	LS	LS	LS	$_____
629.1010	4-Inch Pavement Striping (Thermoplastic Extrusion)	LS	LS	LS	$_____

PROPOSAL SCHEDULE

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
629.2020	Type C Pavement Marker	LS	LS	LS	$_____
629.2030	Type D Pavement Marker	LS	LS	LS	$_____
631.3000	Relocation of Existing Regulatory Sign	LS	LS	LS	$_____
631.4000	Relocation of Existing Warning Sign	LS	LS	LS	$_____
632.1000	Type II Object Marker	LS	LS	LS	$_____
632.2000	Type III Object Marker	LS	LS	LS	$_____
638.1000	Curb and Gutter, Type 2DG Modified	LS	LS	LS	$_____
645.0100	Traffic Control	LS	LS	LS	$_____
645.0200	Additional Police Officers, Additional Traffic Control Devices, and Advertisement	FA	FA	FA	$ 39,500.00
648.0100	Field Posted Drawings	LS	LS	LS	$_____
657.1000	Soil Nail Installation	LS	LS	LS	$_____
694.0100	Project Signs	LS	LS	LS	$_____
695.0100	Portable Concrete Barrier	60	EA	$_____	$_____
695.0200	Inertial Barrier System	4	EA	$_____	$_____

PROPOSAL SCHEDULE

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
696.0100	Field Office Trailer (Not to exceed $32,000.00)	LS	LS	LS	$_____
696.0200	Maintenance of Trailer	FA	FA	FA	$ 20,000.00
699.1000	Mobilization (Not to exceed 6 Percent of the sum of all items excluding bid price of this item)	LS	LS	LS	$_____

SUM OF ALL ITEMS..... $_____

NOTE: Bidders must complete all unit prices and amounts. Failure to do so may be grounds for rejection of bid.

WILSON OKAMOTO CORPORATION
ENGINEERS | PLANNERS | CONSULTANTS

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Artesian Plaza, Suite 400
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www.wilsonokamoto.com

7975-01
May 21, 2014

PRE-BID MEETING MINUTES MEMO

SUBJECT:	HANA HIGHWAY IMPROVEMENTS, PHASE 2A, HUELO TO HANA PROJECT NO. 360AB-01-09
PERSONS PRESENT:	See attached sign-in sheet.
MEETING DATE:	Began 10:07 am May 20, 2014 Ended 10:30 am
MEETING LOCATION:	DOT-Maui District

INFORMATION ITEMS:

1. Brian Lock went over the scope of work for the project and other project specific information.
   a. Safety improvements; new guardrail, slope stabilization through soil nail walls; drainage improvements; restriping and resigning.
   b. SMA and NPDES Individual Permit is being worked on.
   c. Take note of the limited access of Hana Highway.

QUESTIONS:

1. Contractor questioned Item on proposal schedule?
   Response: Proposal schedule to be amended.
2. Contractor asked if separate line items for AC pav't for Roadway and Guardrail paving would be provided?
   Response: Proposal schedule to be amended.
3. Contractor questioned AC Pav't mix IV under guardrail.
   Response: Mix IV

Prepared by: Kevin Higashi, Wilson Okamoto Corporation

SIGN IN SHEET – PRE-BID MEETING

May 20, 2014, 10 AM
Maui District Office

Hana Highway Improvements, Phase 2
Project No. 360AB-01-09

NAME	COMPANY	Phone Number	E-MAIL
1. Fred Gutierrez	DOT	(808) 873-3390	fred.c.gutierrez@hawaii.gov
2. Brian Lock	WOC	808.946.2277	BALOCK@WILSONOKAMOTO.COM
3. Kevin Higashi	WOC	808-946-2277	KHIGASHI@WILSONOKAMOTO.COM
4. Jeff Francis	Global Specialty	808-843-8982	
5. Nick Straka	DOT	808 873-3388	Nicholas.L.Straka@hawaii.gov
E. Fred Cajigal		873-3535	fernando.cajigal@hawaii.gov
T. Kay Davis	Sonny Vicks Paving Inc	877-7116	office@sonnyvicks.com

STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

Project Title: Hana Highway Improvements, Phase 2

Project No.: 360AB-01-09 PHASE 2

DOH NGPC File No. HIR------

Prepared by: Department of Transportation, Highways Division, Design Branch

Date: May 2014

Storm Water Pollution Prevention Plan (SWPPP)

Notice of General Permit Coverage (NGPC) File No. HIR------
Preparation Date 04 / 20 / 14

Table of Contents

7.0 Preface

The following documents are referenced throughout the SWPPP:

1) *Hawaii Administrative Rules, Chapter 11-55*

2) *HDOT Construction Best Management Practices Field Manual*

3) *Hawaii Standard Specifications for Road and Bridge Construction dated 2005 and applicable special provisions.*

7.0.1 Notes for Contractor/HDOT Construction Personnel

Items in red need to be updated by the Contractor once the project is awarded prior to construction. The Contractor shall be responsible for updating the SWPPP during construction.

Note: HDOT has permitted all outfalls and disturbed potential Contractor Staging/Storage Areas within the project limits. The Contractor may use any disturbed area acceptable to the Engineer for Staging/Storage. Staging/Storage Areas outside disturbed areas or outside the project limits may require a new NPDES submittal. See permitting requirements in Section 209 of the Special Provisions.

Outfalls/Receiving Waters Point 3 and 7 discharge to nutrient or sediment impaired waters. The following applies to construction areas discharging to these outfalls:

1) *Construction BMPs shall be inspected weekly, and within 24 hours of any rainfall event of 0.25 inches or greater in a 24 hour period and daily during periods of prolonged rainfall. For more details see section 7.2.12 of this SWPPP.*

2) *Immediately initiate and complete stabilization within 7 calendar days on areas of the site in which earth-disturbing activities have temporarily or permanently ceased. For more details see section 7.2.10.2 of the SWPPP.*

Outfalls/Receiving Waters Point 1, 2, 4, 5, 6, 8, and 9 discharges to waters not impaired for nutrients or sediments. The following applies to construction areas discharging to these outfalls:

1) *Construction BMPs shall be inspected weekly. For more details see section 7.2.12 of this SWPPP.*

2) *Immediately initiate and complete stabilization within 14 calendar days on areas of the site in which earth-disturbing activities have temporarily or permanently ceased. For more details see section 7.2.10.2 of the SWPPP.*

7.2.1 Storm Water Team

The permittee shall assemble and oversee a "storm water team," which is responsible for the development of the SWPPP, any later modifications to it, and for compliance with the requirements in this permit.
The SWPPP must identify the personnel (by name or position) that are part of the storm water team, as well as their individual responsibilities. Each member of the storm water team must have ready access to an electronic or paper copy of applicable portions of this permit, the most updated copy of the SWPPP, and other relevant documents or information that must be kept with the SWPPP.

The Contractor shall include their personnel information once the project is awarded.

1) Name: Ferdinand Cajigal
Company: Hawaii Department of Transportation
Position: HDOT Maui District Engineer
Contact Number: (808)873-3538
Responsibilities: Develop SWPPP during the design process; compliance with NPDES

2) Name: Alan Matsuda
Company: Hawaii Department of Transportation
Position: HDOT Construction Engineer
Contact Number: (808)873-3539
Responsibilities: NPDES compliance

3) Name: Brian Lock
Company: Wilson Okamoto Corporation

Position: Project Manager

Contact Number: (808 946-2277

Responsibilities: Assist in developing SWPPP during the design process

4) Name:

Company:

Position:

Contact Number:

Responsibilities:

5) Name:

Company: Contractor

Position: Contractor Designated Representative

Contact Number: (808)xxx-xxxx

Responsibilities:

6) Name:

Company: Contractor

Position: Contractor

Contact Number: (808)xxx-xxxx

Responsibilities:

7) Name:

Company: Contractor

Position: Contractor

Contact Number: (808)xxx-xxxx

Responsibilities:

8) Name:

Company: Contractor

Position: Contractor

Contact Number: (808)xxx-xxxx

*Responsibilities:*_____

7.2.2 Nature of Construction Activities Form C.6

What is the function of the construction activity (Please check all applicable activity(ies))?
☐ *Residential* ☐ *Commercial* ☐ *Industrial* ☒ *Road Construction* ☐ *Linear Utility*
☐ *Other (please specify):*_____

For construction site estimates, see NOI Form C, Section C.3.

What is being constructed? Road improvements between mile post 8.1 and 21.5: replacing and installing new guardrail; new soil anchor retaining walls for slope stabilization; repaving of cracked pavement; replacing and installing new pavement marking, striping, and signing; installing new concrete curb & gutter and new grated drain inlets/lines to relieve ponding; removing existing earth berms.

Describe the scope of work and major construction activities covered in this NOI, including baseyards and staging areas. Include only project areas where the locations of impervious structures are known; project areas where the final grades are known; and work areas that will be performed by one (1) general contractor. A separate NOI will be required for all other project areas. (Note: Per Section 209 of the specifications and applicable special provisions, the maximum surface area of earth material which may be exposed at any time is 300,000 square feet.)

Construction activities include reconstructing the travelway, construction of new retaining walls, installing new guardrail, installing new drain structures and curb&gutter, and removing earth berms. *The locations of the staging and storage areas may be changed by the Contractor depending on his construction means and methods. The Contractor shall submit to the Engineer the locations of his staging and storage areas once the project is awarded for review and acceptance.*

7.2.3 Emergency Related Projects

☒ *Not Applicable*

☐ *Applicable (If this box is checked, provide additional information as described below)*

If conducting earth-disturbing activities in response to a public emergency (see section 1.3.), the permittee shall document the cause of the public emergency (e.g., natural disaster, extreme flooding conditions, etc.), information substantiating its occurrence (e.g., state disaster declaration or similar state declaration), and a description of the construction necessary to reestablish effected public services. The declaration of emergency or imminent threat to public health is required to be from the state governor or the director. See Attachment H for additional information.

7.2.4 Identification of Prime Contractor and Other Site Contractors

The SWPPP must include a list of both the prime contractor and all other contractors (e.g., sub-contractors) who will be engaged in construction activities at the site, and the areas of the site over which each contractor has control. List prime contractor and sub-contractors below and attach map showing areas of control in ***Attachment A. Complete and attach a Subcontractor Certification/Agreement in Attachment D.***

(General Contractor Company Name) The general contractor information will be submitted at least 30 calendar days before the start of construction activities.	
(General Contractor Contact Person Name)	
(General Contractor Mailing Address)	
(General Contractor Mailing City)	*(General Contractor Mailing State and Zip*
(General Contractor Telephone Number)	
(General Contractor Email Address)	

(Sub-Contractor #1 Company Name, as needed)	
(Sub-Contractor Contact Person Name)	
(Sub-Contractor Mailing Address)	
(Sub-Contractor Mailing City)	*(Sub-Contractor Mailing State and Zip Code)*
(Sub-Contractor Telephone Number)	
(Sub-Contractor Email Address)	

(Sub-Contractor #2 Company Name, as needed)	
(Sub-Contractor Contact Person Name)	
(Sub-Contractor Mailing Address)	
(Sub-Contractor Mailing City)	*(Sub-Contractor Mailing State and Zip Code)*
(Sub-Contractor Telephone Number)	
(Sub-Contractor Email Address)	

(Sub-Contractor #3 Company Name, as needed)	
(Sub-Contractor Contact Person Name)	
(Sub-Contractor Mailing Address)	
(Sub-Contractor Mailing City)	*(Sub-Contractor Mailing State and Zip Code)*
(Sub-Contractor Telephone Number)	
(Sub-Contractor Email Address)	

☐ *Attach maps showing areas of Contractor/Subcontractor Control in Attachment A.*

☐ *Complete and attach a Subcontractor Certification/Agreement in Attachment D.*

7.2.5 Sequence and Estimated Dates of Construction Activities

In Attachment C, attach the proposed construction schedule which shall include, at a minimum: The Contractor shall submit to the Engineer an update of the dates in the SWPPP once the project is awarded.

☒ *Installation of storm water control measures, and when they will be made operational, including an explanation of how the sequence and schedule for installation of storm water control measures complies with section 5.1.1.3.1. and of any departures from manufacturer specifications pursuant to section 5.1.1.3.2., including removal procedures of the storm water control measures after construction has ceased.*

☒ *Commencement and duration of earth-disturbing activities, including clearing and grubbing, mass grading, site preparation (i.e., excavating, cutting and filling), final grading, and creation of soil and vegetation stockpiles requiring stabilization.*

☒ *Cessation, temporarily or permanently, of construction activities on the site, or in designated portions of the site.*

☒ *Final or temporary stabilization of areas of exposed soil. The dates for stabilization must reflect the applicable deadlines to which the permittee is subject to in section 5.2.1.*

☒ *Removal of temporary storm water conveyances/channels and other storm water control measures, removal of construction equipment and vehicles, and cessation of any pollutant-generating activities.*

7.2.6.1 Property Boundary Maps

Boundaries of the property and of the locations where construction activities will occur. Attach, title, and identify all maps (pdf - minimum 300 dpi) listed below, in Attachment A.

a. *Legal boundaries of the project.* See NOI, Form C, Section C.8
b. *Locations where earth-disturbing activities will occur, noting any sequencing of construction activities.* See NOI, Form C, Section C.8
c. *Pre-Construction Topography including approximate slopes and drainage patterns for the entire Facility/Project site to the receiving storm water drainage system (if applicable) or to the receiving State water(s) (with flow arrows). Note areas of steep slopes (15% or greater in grade).* See NOI, Form C, Section C.8
d. *During-Construction Topography (after major grading activities) including approximate slopes and drainage patterns for the entire Facility/Project site to the receiving storm water drainage system (if applicable) or to the receiving State water(s) (with flow arrows) Note areas of steep slopes (15% or greater in grade).* See NOI, Form C, Section C.8
e. *Post-Construction Topography including approximate slopes and drainage patterns for the entire Facility/Project site to the receiving storm water drainage system (if applicable) or to the receiving State water(s) (with flow arrows). Note areas of steep slopes (15% or greater in grade).* See NOI, Form C, Section C.8
f. *Locations where sediment, soil, or other construction materials will be stockpiled 7.2.6.1c.* See SWPPP Attachment A. Stockpile locations may be changed by the Contractor depending on his construction means and methods. The Contractor shall submit to the Engineer for his review and acceptance the locations of stockpiles once the project is awarded and will be included in the SWPPP. The Contractor shall submit to the Engineer for his review and acceptance any updates/changes to stockpile areas during construction for inclusion in the SWPPP.
g. *Locations of any contaminated soil or contaminated soil stockpiles 7.2.6.1d.* No areas of contaminated soil are expected to be encountered in the area. If any areas are encountered, the locations will be included in the SWPPP.

h. Locations of any crossings of state waters 7.2.6.1e. See NOI, Form C, Section C.8

i. Designated points on the site where vehicles will exit onto paved roads 7.2.6.1f. See SWPPP Attachment A. Stabilized entrance locations may be changed by the Contractor depending on his construction means and methods. The Contractor shall submit to the Engineer the locations of stabilized entrances once the project is awarded for his review and acceptance and will be included in the SWPPP. The Contractor shall submit to the Engineer for his review and acceptance any updates/changes to stabilized entrances during construction for inclusion in the SWPPP.

j. Location(s) of impervious structures (including buildings, roads, parking lots, etc.) after construction is completed 7.2.6.1g. See NOI, Form C, Section C.8

k. Locations of construction support activity areas covered by this permit 7.2.6.1h. See SWPPP Attachment A. The locations of the staging and storage areas may be changed by the Contractor depending on his construction means and methods. The Contractor shall submit to the Engineer the locations of his staging and storage areas for his review and acceptance once the project is awarded. The Contractor shall submit to the Engineer any updates/changes to staging and storage areas during construction for his review and acceptance and inclusion in the SWPPP.

7.2.6.2 to 7.2.6.8 State Waters and BMP Maps

Attach, title, and identify all maps (pdf - minimum 300 dpi) listed below, in Attachment A.

Please reference which maps account for the features listed below.

a. Locations of all state waters, including wetlands, that exist within or in the immediate vicinity of the site and indicate which waterbodies are listed as impaired 7.2.6.2. See NOI, Form C, Section C.8

b. The boundary lines of any natural buffers provided consistent with section 5.1.2.1.1, 7.2.6.3. See NOI, Form C, Section C.8

c. Topography of the site, existing vegetative cover (e.g., forest, pasture, pavement, structures), and drainage pattern(s) of storm water onto, over, and from the site property before and after major grading activities 7.2.6.4. See NOI, Form C, Section C.8

d. Storm water discharge locations, including: a) Locations of any storm drain inlets on the site and in the immediate vicinity of the site to receive storm water runoff from the project; See NOI, Form C, Section C.8

and b) Locations where storm water will be discharged to state waters (including wetlands) 7.2.6.5. See NOI, Form C, Section C.8

e. Locations of all potential pollutant-generating activities identified in section 7.2.7, 7.2.6.6.

See SWPPP Attachment A, and Form C Attachment A-3

f. *Locations of storm water control measures 7.2.6.7. See SWPPP Attachment A, and Form C Attachment A-3. The Contractor may change the locations of storm water control measures by construction activity and construction sequence depending on his construction means and methods. The Contractor shall submit changes to the Engineer for his review and acceptance once the project is awarded. The Contractor shall submit a separate map for each phase of construction which changes the drainage pattern. The Contractor shall submit to the Engineer for his review and acceptance any updates/changes to storm water control measures during construction for inclusion in the SWPPP.*

g. *Locations where chemicals will be used and stored 7.2.6.8. For locations where chemicals will be used, see SWPPP Attachment A Construction Activity BMP Map. The table below shows possible chemicals which may be used on site and which construction activity they are associated with. The locations where chemicals may be used and stored may be changed by the Contractor depending on his construction means and methods. The Contractor shall submit to the Engineer for his review and acceptance any updates/changes to locations where chemicals will be used and stored during construction for inclusion in the SWPPP.*

Chemical	***Location***	***Major Construction Activity***
Hydraulic oils/ fluids	• *Vehicle Refueling area* • *Leaks from broken hoses on equipment* • *Vehicles shall be maintained off site. If a maintenance area is necessary on-site, the Contractor shall submit to the Engineer the locations and BMPs for his review and acceptance for inclusion in the SWPPP.*	*Roadway Demolition and Construction, Landscaping*
Antifreeze/Coolants	• *Vehicle Refueling area* • *Leaks from broken hoses on equipment* • *Vehicles shall be maintained off site. If a maintenance area is necessary on-site, the Contractor shall submit to the Engineer the locations and BMPs for his review and acceptance for inclusion in the SWPPP.*	*Roadway Demolition and Construction, Landscaping*
Glue, Adhesives	• *Roadway construction*	*Roadway Demolition and Construction*

Concrete Curing Compounds/ Form Release Oils	• *Roadway construction involving concrete*	*Roadway Demolition and Construction*
Pesticides	• *Landscaping areas*	*Landscaping*
Herbicides	• *Landscaping areas*	*Landscaping*
Insecticides	• *Landscaping areas*	*Landscaping*
Fertilizers	• *Landscaping areas*	*Landscaping*

7.2.7 Construction Site Pollutants

For each pollutant-generating activity, an inventory of pollutants or pollutant constituents (e.g., sediment, fertilizers and/or pesticides, paints, solvents, fuels) associated with that activity, which could be exposed to rainfall and could be discharged from the construction site. The Contractor shall take into account where potential spills and leaks could occur that contribute pollutants to storm water discharges. The Contractor shall also document for the Engineer's review and acceptance any departures from the manufacturer's specifications for applying fertilizers containing nitrogen and phosphorus, as required in Section 5.3.5.1 under Attachment H.

All solid waste shall be disposed of at DOH, Solid and Hazardous Waste Branch (SHWB), Solid Waste Section (SWS) permitted facilities. If not, contact the SHWB-SWS at (808) 586-4226 as additional permits may be required.

Source/Material	***Description of How Potential Pollutant Source will be Prevented from Discharging with Storm Water Runoff***	***Major Construction Activity***
Construction debris, green waste, general litter	• *See Section 7.2.10 for Site Specific BMPs*	*Roadway Demolition and Construction, Landscaping*

Materials associated with the operation and maintenance of equipment, such as oil, fuel, and hydraulic fluid leakage	• *See Section 7.2.10 for Site Specific BMPs*	*Roadway Demolition and Construction, Landscaping*
Soil erosion from the disturbed areas	• *See Section 7.2.10 for Site Specific BMPs*	*Roadway Demolition and Construction, Landscaping*
Sediment from soil stockpiles	• *See Section 7.2.10 for Site Specific BMPs*	*Roadway Demolition and Construction, Landscaping*
Emulsified asphalt or prime/tack coat	• *See Section 7.2.10 for Site Specific BMPs*	*Roadway Demolition and Construction, Landscaping*
Materials associated with painting, such as paint and paint wash solvent	*N/A*	*N/A*
Industrial chemicals, fertilizers, and/or pesticides	• *See Section 7.2.10 for Site Specific BMPs*	*Roadway Demolition and Construction, Landscaping*
Hazardous waste (Batteries, Solvents, Treated Lumber, etc.)	• *See Section 7.2.10 for Site Specific BMPs*	*Roadway Demolition and Construction, Landscaping*
Metals and Building Materials	• *See Section 7.2.10 for Site Specific BMPs*	*Roadway Demolition and Construction, Landscaping*

Existing Pollution Sources	• *See Section 7.2.10 for Site Specific BMPs*	*Roadway Demolition and Construction, Landscaping*
Other (Contaminated Soil)	*N/A*	*N/A*

7.2.8 –Sources of Non-Storm Water

The SWPPP must also identify all sources of non-storm water and information, including, but not limited to, the design, installation, and maintenance of the control measures to prevent its discharge.

All solid waste shall be disposed of at DOH, Solid and Hazardous Waste Branch (SHWB), Solid Waste Section (SWS) permitted facilities. If not, the Contractor shall contact the SHWB-SWS at (808) 586-4226 and notify the Engineer for his agreement the disposal locations. Additional permits may be required.

Source	***Description of How Potential Non-Storm Water Pollution Source will not be Discharged to State Waters***	***Major Construction Activity***
Dust Control Water	• *See Section 7.2.10 for Site Specific BMPs*	*Roadway Demolition and Construction, Landscaping*
Concrete Truck Wash Water	• *See Section 7.2.10 for Site Specific BMPs*	*Roadway Demolition and Construction, Landscaping*
Sediment Track Out	• *See Section 7.2.10 for Site Specific BMPs*	*Roadway Demolition and Construction, Landscaping*

Source	Description of How Potential Non-Storm Water Pollution Source will not be Discharged to State Waters	Major Construction Activity
Irrigation Water	• See Section 7.2.10 for Site Specific BMPs	Roadway Demolition and Construction, Landscaping
Hydrotesting Effluent	N/A	N/A
Dewatering Effluent	N/A	N/A
Saw-cutting Slurry	• See Section 7.2.10 for Site Specific BMPs	Roadway Demolition and Construction, Landscaping
Concrete Curing Water	• See Section 7.2.10 for Site Specific BMPs	Roadway Demolition and Construction, Landscaping
Plaster Waste Water	N/A	N/A
Water-Jet Wash Water	N/A	N/A
Sanitary/Septic Waste	• See Section 7.2.10 for Site Specific BMPs	Roadway Demolition and Construction, Landscaping

7.2.9 –Buffer Documentation

If required to comply with section 5.1.2.1. because a state water is located within 50 feet of the project's earth disturbances, describe which compliance alternative has been selected for the

site, and comply with any additional requirements to provide documentation in Section 5.1.2.1. Delineate, and clearly mark off, with flags, tape, or other similar marking device all natural buffer areas.

☐ *Option 1*

Provide and maintain a 50-foot undisturbed natural buffer and sediment control.
Note: If the earth disturbances are located 50 feet or further from a state water and have installed sediment control, then the permittee has complied with this alternative.

*Width of Buffer*_____*feet*

☐ *Option 2*

Provide and maintain an undisturbed natural buffer that is less than 50 feet and double sediment control (e.g., double perimeter control) spaced a minimum of 5 feet apart.

*Width of Buffer*_____*feet*

☐ *Option 3*

If it is infeasible to provide and maintain an undisturbed natural buffer of any size, the permittee shall provide and maintain double sediment control (e.g., perimeter control) spaced a minimum of 5 feet apart and complete stabilization within 7 calendar days of the temporary or permanent cessation of earth-disturbing activities.

☐ *Exception 1*

There is no discharge of storm water to state waters through the area between the site and any state waters located within 50 feet of the site, the permittee is not required to comply with the requirements in this section. This includes situations where control measures have been implemented, such as a berm or other barrier, that will prevent such discharges.

☒ *Exception 2*

For "linear construction projects" where "linear construction projects" means the construction of roads, bridges, conduits, substructures, pipelines, sewer lines, towers, poles, cables, wires, connectors, switching, regulating and transforming equipment and associated ancillary facilities in a long, narrow area, the permittee is not required to comply with the requirements in this section if site constraints (e.g., limited right-of-way) prevent the permittee from meeting any of the compliance alternatives in section 5.1.2.1.1., provided that, to the extent practicable, the

permittee limit disturbances within 50 feet of state waters and/or the permittee provide erosion and sediment controls to treat storm water discharges from earth disturbances within 50 feet of the state water. The permittee shall also document below the rationale as to why it is infeasible to comply with the requirements in section 5.1.2.1.1., and describe any buffer width retained and/or erosion and sediment controls installed below.

Erosion Control/BMPs (Silt Fence/Filter Sock, aggregate filter bags, etc.) will be provided for all work within project right-of-way. Project sites have limited right-of-way constraints.

☐ *Exception 3*

The following disturbances within 50 feet of a state water are exempt from the requirements in this Part: construction approved under a CWA 404 permit; or construction of a water-dependent structure or water access area (e.g., pier, boat ramp, trail).

The permittee shall document in the SWPPP if any of the above disturbances will occur within the buffer area on the site below.
N/A

7.2.10 Storm Water Control Measures

Please refer to Hawaii Department of Transportation Construction Best Management Practices Field Manual dated January 2008 and Supplemental Sheets. For any conflicting requirements between the Manual and applicable bid documents, the applicable bid documents will govern. Should a requirement not be clearly described within the applicable bid documents, the Contractor shall notify the Engineer immediately for interpretation. For the purposes of clarification under "applicable bid documents" include the construction plans, standard specifications, Special Provisions, Permits, and the SWPPP.

BMP Details

Complete the table below. Note: Bold text in the table are requirements of HAR 11-55. The Contractor shall include the specific product sheets (e.g. Tru-Dam or Gutter Buddy, etc.) and any changes to the proposed BMPs above for the Engineer's review and acceptance.

Check the appropriate boxes below verifying the following requirements are met. If not applicable indicate on the blank lines below (7.2.10.1):

☒ *The specific perimeter sediment controls will be installed and made operational prior to conducting earth-disturbing activities in any given portion of the site that will receive storm water from earth-disturbing activities are described below (7.2.10.1b).*_____

_____

☒ *If contaminated soil exists on-site, control measures will be taken to either prevent the contact of storm water with the contaminated soil, including any contaminated soil stockpiles, or prevent the discharge of any storm water runoff which has contacted contaminated soil or any contaminated soil stockpiles are described below (7.210.1.c).* *N/A Soil contamination is not anticipated on site. The Contractor shall add the BMP measures and locations if any contamination is found on-site for the Engineer's review and acceptance.*

☒ *For exit points on the site (or any areas which exit onto a paved street), stabilization techniques and any additional controls that are planned to remove sediment prior to vehicle exit consistent with Section 5.1.2.3 will be taken and are described below (7.2.10.1d).* *Stabilized entrance locations may be changed by the Contractor depending on his construction means and methods. The Contractor shall submit to the Engineer for his review and acceptance the locations of stabilized entrances once the project is awarded for inclusion in the SWPPP. The Contractor shall submit to the Engineer for his review and acceptance any updates/changes to stabilized entrances during construction for inclusion in the SWPPP.*

☐ *The project is linear, and the use of perimeter controls on portions of the site is impracticable for the following reasons (7.2.10.1e):*_____

_____

Pollutant Source	***Appropriate Site-Specific BMP to be Implemented***	***BMP Requirements***
Construction debris, green waste, general litter	• *Separate contaminated clean up materials from construction and demolition (C&D) wastes.* • ***Provide waste containers (e.g., dumpster or trash receptacle) of sufficient size and number to contain construction and domestic wastes.*** • *Inspect construction waste and recycling areas regularly.* • *Schedule solid waste collection regularly.* • *Schedule recycling activities based on construction/demolition phases.* • *Empty waste containers weekly or when they are two-thirds full, whichever is sooner.* • ***Do not allow containers to overflow. Clean up immediately if they do.*** • ***On work days, clean up and dispose of waste in designated waste containers.*** • *See Solid Waste Management Section SM-6 for additional requirements.* • *Provide Storm Drain Inlet Protection and/or Perimeter Sediment Controls as applicable.* • *The Contractor shall submit for the Engineer's review and acceptance and SWPPP inclusion a Litter Management Plan.*	*See Solid Waste Management Section SM-6. Protect Storm Drain Inlets, See Form C Attachment A-3, and Perimeter Sediment Controls where applicable.* *Contractor to include Litter Management plan once the project is awarded.*
Materials associated with the operation and maintenance of equipment, such as	• *Use off-site wash racks, repair and maintenance facilities, and fueling sites when practical.* • ***Designate bermed wash area if cleaning on site is necessary.***	*See Vehicle and Equipment Cleaning, Maintenance, and Refueling, Sections SM-*

Pollutant Source	***Appropriate Site-Specific BMP to be Implemented***	***BMP Requirements***
oil, fuel, and hydraulic fluid leakage	• ***Place drip pans or drop cloths under vehicles and equipment to absorb spills or leaks.*** • ***Provide an ample supply of readily available spill cleanup materials.*** • ***Clean up spills immediately, using dry clean-up methods where possible, and dispose of used materials properly.*** • ***Do not clean surfaces or spills by hosing the area down.*** • ***Eliminate the source of the spill to prevent a discharge or a continuation of an ongoing discharge.*** • *Inspect on-site vehicles and equipment regularly and immediately repair leaks.* • *Regularly inspect fueling areas and storage tanks.* • *Train employees on proper maintenance and spill practices and procedures and fueling and cleanup procedures.* • ***Store diesel fuel, oil, hydraulic fluid, or other petroleum products or other chemicals in water-tight containers and provide cover or secondary containment.*** • *Do not remove original product labels and* ***comply with manufacturer's labels for proper disposal.*** • *Dispose of containers only after all the product has been used.* • ***Dispose of or recycle oil or oily wastes according to Federal, State, and Local requirements.*** • ***Store soaps, detergents, or***	*11, SM-12, and SM-13, and Material Delivery, Storage and Material Use Sections SM-2 and SM-3, and* ***Spill Prevention and Control SM-10.***

Pollutant Source	***Appropriate Site-Specific BMP to be Implemented***	***BMP Requirements***
	solvents under cover or other means to prevent contact with rainwater. • *See Vehicle and Equipment Cleaning, Maintenance, and Refueling, Sections SM-11, SM-12, and SM-13 and Material Use Section SM-3 for additional requirements.*	

Pollutant Source	***Appropriate Site-Specific BMP to be Implemented***	***BMP Requirements***
Soil erosion from the disturbed areas	• *Provide Soil Stabilization, Slope Protection, Storm Drain Inlet Protection SC-2, Perimeter Controls and Sediment Barriers, Sediment Basins and Detention Ponds, Check Dams SC-9 ,Level Spreader SC-10, Paving Operations SM-19, Construction Road Stabilization EC-1, Controlling Storm Water Flowing Onto and Through the Project, Post-Construction BMPs, and Non-Structural BMPs (Employee Training SM-1, Scheduling SM-14, Location of Potential Sources of Sediment SM-15, Preservation of Existing Vegetation SM-16).* • ***Delineate, and clearly mark off, with flags, tape, or other similar marking device all natural buffer areas defined in the SWPPP.*** • ***Preserve native topsoil where practicable.*** • ***In areas where vegetative stabilization will occur, restrict vehicle/equipment use in areas to avoid soil compaction or condition soil to promote vegetative growth.*** • ***For Storm Drain Inlet Protection, clean, or remove and replace, the protection measures as sediment accumulates, the filter becomes clogged, and/or performance is compromised.***	*Soil Stabilization* 1. *SM-21 Topsoil Management* 2. *EC-5 Seeding and Planting* 3. *EC-6 Mulching* 4. *EC-7 Geotextiles and Mats* *Slope Protection* 1. *EC-5 Seeding and Planting* 2. *EC-6 Mulching* 3. *EC-7 Geotextiles and Mats* 4. *EC-9 Slope Roughening, Terracing, and Rounding* 5. *SC-11 Slope Drains and Subsurface Drains* 6. *SC-12 Top and Toe of Slope Diversion Ditches and Berms* *SC-2 Storm Drain Inlet Protection*

Pollutant Source	***Appropriate Site-Specific BMP to be Implemented***	***BMP Requirements***
	• ***Where there is evidence of sediment accumulation adjacent to the inlet protection measure, remove the deposited sediment by the end of the same day in which it is found or by the end of the following work day if removal by the same day is not feasible.*** • ***Sediment basins shall be designed and maintained in accordance with HAR 11-55.*** • ***Minimize disturbance on steep slopes (Greater than 15% in grade).*** • ***If disturbance of steep slopes are unavoidable, phase disturbances and use stabilization techniques designed for steep grades.*** • ***For temporary drains and swales use velocity dissipation devices within and at the outlet to minimize erosive flow velocities.***	*Perimeter Controls and Sediment Barriers* 1. *SC-1 Silt Fence* 2. *SC-5 Vegetated Filter Strips and Buffers* 3. *SC-8 Compost Filter Berm* 4. *SC-13 Sandbag Barrier* 5. *SC-14 Brush or Rock Filter* *Sediment Basins and Detention Ponds* 1. *SC-15 Sediment Trap* 2. *SC-16 Sediment Basin* *SC-9 Check Dams* *SC-10 Level Spreader* *SM-19 Paving Operations* *EC-1 Construction Road Stabilization* *Controlling Storm Water Flowing onto and Through the Project* 1. *EC-8 Run-On Diversion*

Pollutant Source	***Appropriate Site-Specific BMP to be Implemented***	***BMP Requirements***
		2. *SC-6 Earth Dike* 3. *SC-7 Temporary Drains and Swales* *Post Construction BMPs* 1. *EC-4 Flared Culvert End Sections* 2. *SC-3 Rip-Rap and Gabion Inflow Protection* 3. *SC-4 Outlet Protection and Velocity Dissipation Devices* 4. *SM-21 Topsoil Management* *Non-Structural BMPs* 1. *SM-1 Employee Training* 2. *SM-14 Scheduling* 3. *SM-15 Location of Potential Sources of Sediment* 4. *SM-16 Preservation of Existing Vegetation*

Pollutant Source	***Appropriate Site-Specific BMP to be Implemented***	***BMP Requirements***
Sediment from soil stockpiles	• *Locate stockpiles a minimum of 50 feet or as far as practicable from concentrated runoff* ***or outside of any natural buffers identified on the SWPPP.*** • *Place bagged materials on pallets and under cover.* • *Provide physical diversion to protect stockpiles from concentrated runoff.* • ***Cover stockpiles with plastic or comparable material when practicable.*** • ***Place silt fence, fiber filtration tubes, or straw wattles around stockpiles.*** • ***Do not hose down or sweep soil or sediment accumulated on pavement or other impervious surfaces into any storm water conveyance (unless connected to a sediment basin, sediment trap, or similarly effective control), storm drain inlet, or state water.*** • ***Unless infeasible, contain and securely protect stockpiles from the wind.*** • *Provide Storm Drain Inlet Protection and/or Perimeter Sediment Controls as applicable.* • *See Protection of Stockpiles Section SM-4 for additional requirements.*	*See Protection of Stockpiles Section SM-4. Protect Storm Drain Inlets SC-2, and Perimeter Sediment Controls where applicable.*
Emulsified asphalt or prime/tack coat	• *Provide training for employees and contractors on proper material delivery and storage practices and procedures.* • *Restrict paving operations during wet weather to prevent paving materials from being discharged.*	*See Material Delivery and Storage Section SM-2* ***and Material Use Section SM-3****, Paving Operations Section SM-19, Protect Storm Drain*

Pollutant Source	***Appropriate Site-Specific BMP to be Implemented***	***BMP Requirements***
	• *Use asphalt emulsions such as prime coat when possible.* • *Protect drain inlet structures and manholes during application of tack coat, seal coat, slurry seal, and fog seal.* • ***Keep ample supplies of drip pans and absorbent materials on site.*** • *Inspect inlet protection devices.* • *See Material Delivery and Storage Section SM-2 and Paving Operations Section SM-19 for additional requirements.* • *Provide Storm Drain Inlet Protection and/or Perimeter Sediment Controls as applicable.*	*Inlets SC-2, and Perimeter Sediment Controls where applicable.*

Pollutant Source	***Appropriate Site-Specific BMP to be Implemented***	***BMP Requirements***
Materials associated with painting, such as paint and paint wash solvent	*N/A*	*N/A*
Industrial chemicals, fertilizers, and/or pesticides	• *Hazardous chemicals shall be well-labeled and stored in original containers.* • ***Keep ample supply of cleanup materials on site.*** • ***Clean up spills immediately, using dry clean-up methods where possible, and dispose of used materials properly.*** • ***Do not clean surfaces or spills by hosing the area down.*** • ***Eliminate the source of the spill to prevent a discharge or a furtherance of an ongoing discharge.*** • *Dispose container only after all of the product has been used.* • *Retain a complete set of safety data sheets (formerly MSDS) on site.* • ***Store industrial chemicals in water-tight containers and provide either cover or secondary containment.*** • ***Provide cover when storing fertilizers or pesticides to prevent these chemicals from coming into contact with rainwater.*** • *Restrict amount of pesticide prepared to quantity necessary for the current application.* • ***Do not apply fertilizers or pesticides during or just before a rain event.*** • ***Do not apply to stormwater conveyance channels with flowing water***	*See Material Delivery and Storage Section SM-2, Material Use Section SM-3, and Hazardous Waste Management Section SM-9, and* ***Spill Prevention and Control SM-10***

Pollutant Source	***Appropriate Site-Specific BMP to be Implemented***	***BMP Requirements***
	• ***Comply with fertilizer and pesticide manufacturer's recommended usage and disposal instructions. Document departures from manufacturer's specifications in Attachment H.*** • ***Apply fertilizers at the appropriate time of year for the location, and preferably timed to coincide as closely as possible to the period of maximum vegetation uptake and growth.*** • ***Follow federal, state, and local laws regarding fertilizer application.*** • ***Do not dispose of toxic liquid wastes (solvents, used oils, and paints) or chemicals (additives, acids, and curing compounds) in dumpsters allocated for construction debris.*** • ***Ensure collection, removal, and disposal of hazardous waste complies with regulations. Hazardous waste that cannot be reused or recycled shall be disposed of by a licensed hazardous waste hauler.*** *See Material Delivery and Storage Section SM2, Material Use SM-3, and Waste Management, Hazardous Waste Management Section SM-9 for additional requirements.*	
Hazardous waste (Batteries, Solvents, Treated Lumber, etc.)	• *Do not dispose of toxic materials in dumpsters allocated for construction debris.* • ***Ensure collection, removal, and disposal of hazardous waste complies with regulations.*** • ***Hazardous waste that cannot be reused or recycled shall be***	*See Hazardous Waste Management Section SM-9 and Vehicle and Equipment Maintenance SM-12*

Pollutant Source	*Appropriate Site-Specific BMP to be Implemented*	*BMP Requirements*
	disposed of by a licensed hazardous waste hauler. • *Segregate and recycle wastes from vehicle/equipment maintenance activities such as used oil or oil filters, greases, cleaning solutions, antifreeze, automotive batteries, and hydraulic and transmission fluids.* • ***Store waste in sealed containers, which are constructed of suitable materials to prevent leakage and corrosion, and which are labeled in accordance with applicable Resource Conservation and Recovery Act (RCRA) requirements and all other applicable federal, state, and local requirements.*** • ***All containers stored outside shall be kept away from surface waters and within appropriately-sized secondary containment (e.g., spill berms, decks, spill containment pallets). Provide cover if possible.*** • ***Clean up spills immediately, using dry clean-up methods where possible, and dispose of used materials properly.*** • ***Do not clean surfaces or spills by hosing the area down.*** • ***Eliminate the source of the spill to prevent a discharge or a continuation of an ongoing discharge.*** • ***Ensure collection, removal, and disposal of hazardous waste complies with manufacturer's recommendations and is in compliance with federal, state, and local requirements.***	

Pollutant Source	***Appropriate Site-Specific BMP to be Implemented***	***BMP Requirements***
	• *See Hazardous Waste Management Section SM-9 and Vehicle and Equipment Management, Vehicle and Equipment Maintenance SM-12 for additional requirements.*	
Metals and Building Materials	• *Inspect construction waste and recycling areas regularly.* • *Schedule solid waste collection regularly.* • ***If building materials or metals are stored on site (such as rebar or galvanized poles) store under cover under tarps or in containers.*** • *Minimize the amount of material stored on site.* • ***Do not stockpile uncovered metals or other building materials in close proximity to discharge points.*** • *See Solid Waste Management Section SM-6 for additional requirements.*	*See Solid Waste Management Section SM-6*
Contaminated Soil	*N/A*	*N/A*
Dust Control Water	• *Do not over spray water for dust control purposes which will result in runoff from the area.* • ***Apply water as conditions require.*** • *Washing down of debris or dirt into drainage, sewage systems, or State waters is not allowed.* • *See Dust Control Section SM-18 for additional requirements.*	*See Dust Control Section SM-18*
Concrete Truck Wash Water	• *Disposal of concrete truck wash water via percolation is*	*See Waste Management, Concrete*

Pollutant Source	***Appropriate Site-Specific BMP to be Implemented***	***BMP Requirements***
	prohibited. • *Wash concrete-coated vehicles or equipment off-site or in the designated wash area.* • *Locate on-site wash area a minimum of 50 feet away* ***or as far as practicable*** *from storm drain inlets, open drainage facilities, or water bodies.* • *Runoff from the on-site concrete wash area shall be contained in a temporary pit or level bermed area where the concrete can set.* • ***Design the area so that no overflow can occur due to inadequate wash area sizing or precipitation.*** • *The temporary pit shall be lined with plastic to prevent seepage of wash water into the ground.* • *Allow wash water to evaporate or collect wash water and all concrete debris in a concrete washout system bin.* • ***Do not dump liquid wastes into storm drainage system.*** • ***Dispose of liquid and solid concrete wastes in compliance with federal, state, and local standards.*** • *See Waste Management, Concrete Waste Management Section SM-5 for additional requirements.*	*Waste Management Section SM-5*

Pollutant Source	***Appropriate Site-Specific BMP to be Implemented***	***BMP Requirements***
Sediment Track-Out	• ***Include Stabilized Construction Entrance at all points that exit onto paved roads.*** • *A sediment trapping device is required if a wash rack is used in conjunction with the stabilized construction entrance/exit.* • *The pavement shall not be cleaned by washing down the street.* • *If sweeping is ineffective or it is necessary to wash the streets, wash water must be contained either by construction of a sump, diverting the water to an acceptable disposal area, or vacuuming the wash water.* • *Use BMPs for adjacent drainage structures.* • ***Remove sediment tracked onto the street by the end of the day in which the track-out occurs.*** • ***Restrict vehicle use to properly designated exit points.*** • *Include additional BMPs that remove sediment prior to exit when minimum dimensions can not be met.* • *See Stabilized Construction Entrance Section EC-2 for additional requirements.*	*See Stabilized Construction Entrance Section EC-2*
Irrigation Water	• *Consider irrigation requirements.* • *Where possible, avoid species*	*See Seeding and Planting Section EC-5*

Pollutant Source	Appropriate Site-Specific BMP to be Implemented	BMP Requirements
	which require irrigation. • *Design timing and application methods of irrigation water to eliminate the runoff of excess irrigation water into the storm water drainage system.* *See Seeding and Planting Section EC-5 and California Stormwater BMP Handbook SD-12 Efficient Irrigation included in SWPPP Attachment A for additional requirements.*	
Hydrotesting Effluent	*N/A*	*N/A*
Dewatering Effluent	*N/A*	*N/A*
Saw-cutting Slurry	• *Saw cut slurry shall be removed from the site by vacuuming.* • *Provide storm drain protection during saw cutting. See Paving Operations Section SM-19 for additional requirements.* • *Provide Storm Drain Inlet Protection and/or Perimeter Sediment Controls as applicable.*	*See Paving Operations Section SM-19, Storm Drain Inlet Protection SC-2, Perimeter sediment controls where applicable*
Concrete Curing Water	• *Avoid overspraying of curing compounds.* • *Apply an amount of compound that covers the surface, but does not allow any runoff of the compound.* • *See California Stormwater BMP Handbook NS-12 Concrete Curing included in SWPPP Attachment A for additional requirements.*	*See California Stormwater BMP Handbook NS-12 Concrete Curing*

Pollutant Source	*Appropriate Site-Specific BMP to be Implemented*	*BMP Requirements*
Plaster Waste Water	*N/A*	*N/A*
Water-Jet Wash Water	*N/A*	*N/A*
Sanitary/Septic Waste	• *Locate Sanitary facilities in a convenient place away from drainage facilities.* • ***Position sanitary facilities so they are secure and will not be tipped over or knocked down.*** • *Wastewater shall not be discharged to the ground or buried.* • *A licensed service provider shall maintain sanitary/septic facilities in good working order.* • *Schedule regular waste collection by a licensed transporter.* *See Sanitary/Septic Waste Section SM-7 for additional requirements.*	*See Sanitary/Septic Waste Section SM-7.*

7.2.10.2 – Stabilization Practices

Describe the specific vegetative and/or non-vegetative practices that will be used to comply with the requirements in HAR 11-55, section 5.2., including if the permittee will be complying with the stabilization deadlines specified in HAR 11-55, section 5.2.1.3.2. Document the circumstances that prevent the permittee from meeting the deadlines specified in sections 5.2.1.1. and/or 5.2.1.2.

The term "immediately" is used to define the deadline for initiating stabilization measures. In the context of this SWPPP section, "immediately" means as soon as practicable, but no later than the end of the next work day, following the day when the earth-disturbing activities have temporarily or permanently ceased (5.2.1.1).

For the purposes of this SWPPP section, any of the following types of activities constitutes initiation of stabilization (5.2.1.1):

a) *Prepping the soil for vegetative or non-vegetative stabilization;*
b) *Applying mulch or other non-vegetative product to the exposed area;*
c) *Seeding or planting the exposed area;*
d) *Starting any of the activities in a) – c) on a portion of the area to be stabilized, but not on the entire area; and*
e) *Finalizing arrangements to have stabilization product fully installed in compliance with the applicable deadline for completing initial stabilization activities.*

For the purposes of this SWPPP section, any of the following types of activities constitutes completion of initial stabilization activities (5.2.1.1):

a) *For vegetative stabilization, all activities necessary to initially seed or plant the area to be stabilized; and/or*
b) *For non-vegetative stabilization, the installation or application of all such non-vegetative measures.*

If the Contractor is unable to meet the deadlines above due to circumstances beyond the Contractor's control, and the Contractor is using vegetative cover for temporary or permanent stabilization, the Contractor may comply with the following stabilization deadlines instead as agreed to by the Engineer (5.2.1.3.1):

5.2.1.3.1.1.
Immediately initiate, and complete within the timeframe shown below, the installation of temporary non-vegetative stabilization measures to prevent erosion;

5.2.1.3.1.2.
Complete all soil conditioning, seeding, watering or irrigation installation, mulching, and other required activities related to the planting and initial establishment of vegetation as soon as conditions or circumstances allow it on the site; and

5.2.1.3.1.3.
The Contractor shall notify and provide documentation to the Engineer the circumstances that prevent the Contractor from meeting the deadlines required in sections 5.2.1.1. and/or 5.2.1.2. and the schedule the Contractor will follow for initiating and completing initial stabilization and as agreed to by the Engineer. Include this information in the SWPPP below.

The Contractor shall follow the applicable requirements of the specifications and special provisions including Sections 209, 619 and 641.

Final Stabilization

To be considered adequately stabilized, the permittee shall meet the criteria below depending on the type of cover the permittee is using, either vegetative or non-vegetative.

5.2.2.1. Vegetative stabilization.

5.2.2.1.1.1.
If the permittee is vegetatively stabilizing any exposed portion of the site through the use of seed or planted vegetation, the permittee shall provide established uniform vegetation (e.g., evenly distributed without large bare areas), which provides 70 percent or more of the density of coverage that was provided by vegetation prior to commencing earth-disturbing activities. The permittee should avoid the use of invasive species; (HDOT requires 98% coverage for permanent hydromulch per specification and special provision sections 619 and 641.)

5.2.2.1.1.2.
For final stabilization, hydromulch/grass shall be planted. Vegetative Geotextile for Permanent Erosion Control will also be used for stabilization in certain areas.

5.2.2.1.1.3.
Immediately after seeding or planting the area to be vegetatively stabilized, to the extent necessary to prevent erosion on the seeded or planted area, the Contractor shall install non-vegetative erosion controls that provide cover (e.g., mulch, rolled erosion control products) to the area while vegetation is becoming established.

5.2.2.2. Non-Vegetative Stabilization.
If the permittee is using non-vegetative controls to stabilize exposed portions of the site, or if the Contractor is using such controls to temporarily protect areas that are being vegetatively stabilized, the Contractor shall provide effective non-vegetative cover.

The stabilization schedule for this project is:
Outfalls/Receiving Waters Point 7 discharges to nutrient or sediment impaired waters. The following applies to construction areas discharging to these outfalls:

> Immediately initiate and complete stabilization within 7 calendar days on areas of the site in which earth-disturbing activities have temporarily or permanently ceased.

Outfalls/Receiving Waters Point 1, 2, 3, 4, 5, 6, 8, and 9 discharge to waters not impaired for nutrients or sediments. The following applies to construction areas discharging to these outfalls:

> Immediately initiate and complete stabilization within 14 calendar days on areas of the site in which earth-disturbing activities have temporarily or permanently ceased.

All areas of soil disturbance will be overlaid with Asphalt Concrete or Grass/Hydromulch. Ohia Stream is an impaired water for Total N, NO3+NO2, Total P, TURB, and Trash. HDOT will be complying with the deadlines in 5.2.1.3.1.2, with completion of initial plantings within 7 calendar days of completion of prepping the soil for planting. Mulch will be applied to the exposed areas. The Contractor shall notify the Engineer for his agreement if any stabilization practices or timetables to complete stated above will not be followed and document the reasons in the SWPPP below.

The deadlines for initiating and completing stabilization in sections 5.2.1.1. and/or 5.2.1.2. cannot be met because of the following (Note: Document location(s,)reasons, and schedule)

7.2.10.3 – Post Construction Measures

Descriptions of measures that will minimize the discharge of pollutants via storm water discharges after construction operations have been finished. Examples include: open, vegetated swales and natural depressions; structures for storm water retention, detention, or recycle; velocity dissipation devices to be placed at the outfalls of detention structures or along with the length of outfall channels; and other appropriate measures. All projects require post construction BMPs to minimize the discharge of pollutants via storm water discharges after construction operations have been finished. Examples include: open, vegetated swales and natural depressions; structures for storm water retention, detention, or recycle; velocity dissipation devices to be placed at the outfalls of detention structures or along with the length of outfall channels; and other appropriate measures.

Grass/mulch planted in the disturbed areas will stabilize the area and will help prevent erosion.

7.2.11.1 – Spill Prevention and Response Procedures

The SWPPP must describe procedures that the permittee will follow to prevent and respond to spills and leaks consistent with section 5.3., including:

a. Procedures for expeditiously stopping, containing, and cleaning up spills, leaks, and other releases. Identify the name or position of the employee(s) responsible for detection and response of spills or leaks; and

b. Procedures for notification of appropriate facility personnel, emergency response agencies, and regulatory agencies where a leak, spill, or other release containing a hazardous substance or oil in an amount equal to or in excess of a reportable quantity consistent with section 5.3.4. and established under either 40 CFR Part 110, 40 CFR Part 117, or 40 CFR Part 302, occurs during a 24-hour period. The Contractor shall post contact information in locations that are readily accessible and available.

Where a leak, spill, or other release containing a hazardous substance or oil in an amount equal to or in excess of a reportable quantity established under either 40 CFR Part 110, 40 CFR Part 117, or 40 CFR Part 302 occurs during a 24-hour period, the Contractor shall notify the National Response Center (NRC) at (800) 424-8802, the Clean Water Branch during regular business hours at 586-4309, and the Hawaii State Hospital Operator at 247-2191, the Clean Water Branch (DOH-CWB) via email at cleanwaterbranch@doh.hawaii.gov during non-business hours immediately, and the Engineer. The Contractor shall also provide to the Engineer, within 7 calendar days of knowledge of the release, a description of the release, the circumstances leading to the release, and the date of the release. The Engineer will provide this information to the DOH-CWB. The Engineer will provide information to the NRC if requested. State and local requirements may necessitate additional reporting of spills or discharges to local emergency response, public health, or drinking water supply agencies (HAR 11-55 5.3.4). The Contractor shall submit to the Engineer information necessary to complete the reporting requirements.

☒ *The Spill Prevention and Response Procedures are included in SWPPP Attachment F.*
The Contractor shall update the Spill Prevention and Response Procedures in the SWPPP once the project is awarded for the Engineer's review and acceptance.

7.2.11.2 – Waste Management Procedures

The SWPPP must describe procedures for how the permittee will handle and dispose of all wastes generated at the site, including, but not limited to, clearing and demolition debris,

sediment removed from the site, construction and domestic waste, hazardous or toxic waste, and sanitary waste.

☒ *The Waste Management Procedures are included in SWPPP Attachment G.*

The Contractor shall update the Waste Management Procedures in the SWPPP once the project is awarded for the Engineer's review and acceptance.

7.2.12 – Procedures for Inspection, Maintenance, and Corrective Action

The SWPPP must describe the procedures the permittee will follow for maintaining the storm water control measures, conducting site inspections, and, where necessary, taking corrective actions, in accordance with section 5.1.1.4., section 5.3.2., section 9, and section 10 of the permit. The following information must also be included in the SWPPP:

a. Personnel responsible for conducting inspections: Field Office Engineer and/or Inspector, and/or Contractor Representatives. Field Office Engineer and/or Inspector, and/or Contractor Representatives will be included in the SWPPP once the contract is awarded.

Qualifications: HDOT construction staff and HDOT Contractors attend Stormwater BMP Classes annually. Contractor representatives selected for the inspection and maintenance responsibilities shall receive training from the Contractor. The Contractor's Representatives shall be trained in all the inspection and maintenance practices necessary for keeping the erosion and sediment controls used onsite in good working order. The Contractor's Representative(s) inspecting the site shall be knowledgeable in the principles and practice of erosion and sediment controls and pollution prevention, who possesses the skills to assess conditions at the construction site that could impact storm water quality, and the skills to assess the effectiveness of any storm water controls selected and installed to meet the requirements of this permit.

b. The inspection schedule the permittee will be as follows, which is based on whether the site is subject to section 9.1.2. or section 9.1.3., and whether the site qualifies for any of the allowances for reduced inspection frequencies in 9.1.4. If the permittee will be conducting inspections in accordance with the inspection schedule in section 9.1.2.a. or section 9.1.2.b., the location of the rain gauge on the site or the address of the weather station the permittee will be using to obtain rainfall data;

Describe the inspection schedules and procedures you have developed for the site.

All Construction BMPs shall be inspected weekly for outfalls discharging to non-impaired waters, and within 24 hours of any rainfall event of 0.25 inches or greater in a 24 hour period.

The Contractor shall submit a copy of the SWPPP Inspection and Maintenance Report Form to the Engineer within 24 hours of the inspection.

Maintenance requirements for specific BMPs are included in the HDOT Construction BMP Field Manual. The Contractor shall initiate work to fix the problem immediately after discovering the problem, and complete such work by the close of the next work day, if the problem does not require significant repair or replacement, or if the problem can be corrected through routine maintenance. In this section, immediately means the Contractor shall take all reasonable measures to minimize or prevent discharge of pollutants until a permanent solution is installed and made operational. If a problem is identified at a time in the day in which it is too late to initiate repair, initiation of repair shall begin on the following work day. When installation of a new pollution prevention control or a significant repair is needed, the Contractor shall install the new or modified control and make it operational, or complete the repair, by no later than 7 calendar days from the time of discovery. If it is infeasible to complete the installation or repair within 7 calendar days, the Contractor shall provide notice to the Engineer and document why it is infeasible to complete the installation or repair within the 7 calendar day timeframe and document the schedule for installing the storm water control(s) and making it operational as soon as practicable after the 7 calendar day timeframe and as agreed to by the Engineer. Where these actions result in changes to any of the pollution prevention controls or procedures documented in the SWPPP, modify the SWPPP accordingly. The Contractor will attach product specific maintenance practices in the SWPPP once the project is awarded.

c. Use the Corrective Action Report Form for any the following (10.2.1 and 10.4.1):

- *A required storm water control was never installed, was installed incorrectly, or not in accordance with the requirements in HAR sections 5 and/or 6.*
- *The Contractor/Engineer becomes aware that the storm water controls installed and being maintained are not effective enough for the discharge to meet applicable water quality standards or applicable requirements in HAR section 6.1.*
- *One of the prohibited discharges below is occurring or has occurred:*
  - *Wastewater from washout of concrete*
  - *Wastewater from washout and cleanout of stucco, paint, form release oils, curing compounds and other construction materials*
  - *Fuels, oils, or other pollutants used in vehicle and equipment operation and maintenance*
  - *Soaps, solvents, or detergents used in vehicle and equipment washing*
  - *Toxic or hazardous substances from a spill or other release*
- *Corrective actions required by the Department of Health or EPA*

Note: Corrective actions must be included with the monthly compliance report in Attachment J.

d. Any inspection or maintenance checklists or other forms that will be used.

☒ *The Inspection Report Form provided in SWPPP Attachment E will be used.*

☒ *The Corrective Action Report Form provided in SWPPP Attachment I will be used.*

7.2.13 – Staff Training

The SWPPP must include documentation that the required personnel were trained in accordance with the following:

Prior to the commencement of earth-disturbing activities or pollutant-generating activities, whichever occurs first, the permittee shall ensure that the following personnel understand the requirements of this permit and their specific responsibilities with respect to those requirements:

a. Personnel who are responsible for the design, installation, maintenance, and/or repair of storm water controls (including pollution prevention measures);

b. Personnel who are responsible for the application and storage of chemicals (if applicable);

c. Personnel who are responsible for conducting inspections as required in Part 4.1.1; and

d. Personnel who are responsible for taking corrective actions as required in Part 5.

The Contractor is responsible for ensuring that all activities on the site comply with the requirements of this permit. The Contractor is not required to provide or document formal training for subcontractors or other outside service providers, but must ensure that such personnel understand any requirements of the permit that may be affected by the work they are subcontracted to perform.

At a minimum, personnel must be trained to understand the following if related to the scope of their job duties (e.g., only personnel responsible for conducting inspections need to understand how to conduct inspections):
a. The location of all storm water controls on the site required by this permit, and how they are to be maintained;
b. The proper procedures to follow with respect to the permit's pollution prevention requirements; and
c. When and how to conduct inspections, record applicable findings, and take corrective actions.

The Engineer will discuss the roles and responsibilities of HDOT and the Contractor in the SWPPP during the Water Pollution, Dust, and Erosion Control Meeting.

☒ *The Contractor Certification is included in Attachment B.*

7.2.14 – Documentation of Compliance with Safe Drinking Water Act Underground Injection Control (UIC) Requirements for Certain Subsurface Storm Water Controls

Document any contact with the DOH Safe Drinking Water Branch if any of the following storm water controls are used at the site:

☐ *Infiltration trenches (if storm water is directed to any bored, drilled, driven shaft or dug hole that is deeper than its widest surface dimension, or has a subsurface fluid distribution system);*

☐ *Commercially manufactured precast or pre-built proprietary subsurface detention vaults, chambers, or other devices designed to capture and infiltrate storm water flow;*

☐ *Drywells, seepage pits, or improved sinkholes (if storm water is directed to any bored, drilled, driven shaft or dug hole that is deeper than its widest surface dimension, or has a subsurface fluid distribution system).*

If any of the boxes above are checked, attach documentation in SWPPP Attachment H.

These devices are not part of the design plans. If the Contractor elects to install any of these devices for erosion control purposes, the Contractor shall attach the necessary documentation once the project is awarded.

7.2.15 –Other State, Federal, or County Permits

Include in SWPPP Attachment H any of the following permits or approvals:

☐ *Attach the Drainage System Owner(s) Approval to Discharge, in Attachment _____.*

☒ *Check this box if the Certifying Person is responsible for the overall operation and maintenance of the Separate Drainage System and approves of the storm water discharge into their drainage system.*

County-approved Erosion and Sediment Control Plan and/or Grading Permit

a. *Is a County-approved Erosion and Sediment Control Plan and/or Grading Permit, where applicable for the activity and schedule for implementing each control, required?*
   - ☐ *Yes. Please complete Section b below and skip Section c.*
   - ☒ *No. Please complete Section c below and skip Section b.*

b. *Is a copy County-approved Erosion and Sediment Control Plan and/or Grading Permit, as appropriate for the activity and schedule for implementing each control, attached?*
   - ☐ *Yes, see Attachment* _____
   - ☐ *No, the County-approved Erosion and Sediment Control Plan and/or Grading Permit, as appropriate for the activity and schedule for implementing each control, will be submitted at least 30 calendar days before the start of construction activities.*

c. *Please select and complete at least one (1) of the following items to demonstrate that a County-approved Erosion and Sediment Control Plan and/or Grading Permit, as appropriate for the activity and schedule for implementing each control, is not required.*
   - ☐ *See Attachment* _____ *for the County written determination.*
   - ☐ *Provide the County contact person information (Name, Department, Phone Number, and Date Contacted):* _____
   - ☒ *Other (specify):* Project falls under State jurisdiction and is within State Right-of-way and does not require County approval.

☒ *Department of the Army Permit (Section 404) and Section 401 Water Quality Certification: If the project requires work in, above, under or adjacent to State waters, please contact the Army Corps of Engineers (COE) Regulatory Branch at (808) 438-9258 regarding their permitting requirements. Provide a copy of the COE permitting jurisdictional determination (JD) or the JD with COE Person's Name, Phone Number, and Date Contacted.*
N/A

☒ *List other permits below (No copy necessary in Attachment H)*
N/A

7.2.16 –Other Information As Requested by the Director

☒ *Does DOH require any additional information per section 7.2.16? If so attach in Attachment H.*

N/A

7.2.17 Certification of the CWB SWPPP

The certifying person and duly authorized representative shall meet the requirements of Hawaii Administrative Rules 11-55, Appendix A, Section 15.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: _____ *Date:* 5.30.14

Person Name: Ford N. Fuchigami

Person Position Title: Interim Director of Transportation

Person Company or Agency: Department of Transportation

Department: Department of Transportation

Division: Department of Transportation, Highways Division

Phone Number: (808) 587-2150 *Fax No.:* (808) 587-2167

Person Email: Ford.N.Fuchigami@hawaii.gov

7.2.18 Post-Authorization Additions to the SWPPP

After the issuance of the NGPC include the following documents as part of the SWPPP in Attachment K:

Not applicable

7.4 Required SWPPP Modifications

Modify the SWPPP, including the site map(s), in response to any of the following conditions:

7.4.1.1.
Whenever new contractors become active in construction activities on the site, or changes are made to the construction plans, storm water control measures, pollution prevention measures, or other activities at the site that are no longer accurately reflected in the SWPPP. This includes changes made in response to corrective actions triggered under section 10. The permittee does not need to modify the SWPPP if the estimated dates in section 7.2.5. change during the course of construction;

7.4.1.2.
To reflect areas on the site map where operational control has been transferred (and the date of transfer) since initiating permit coverage;

7.4.1.3.
If inspections or investigations by site staff, or by local, state, or federal officials determine that SWPPP modifications are necessary for compliance with this permit;

7.4.1.4.
Where DOH determines it is necessary to impose additional requirements on the discharge, the following must be included in the SWPPP:

a. A copy of any correspondence describing such requirements; and
b. A description of the storm water control measures that will be used to meet such requirements.

7.4.1.5.
To reflect any revisions to applicable federal, state, and local requirements that affect the storm water control measures implemented at the site; and

7.4.2. Deadlines for SWPPP modifications.
The permittee shall complete required revisions to the SWPPP within 7 calendar days following the occurrence of any of the conditions listed in section 7.4.1.

7.4.3. SWPPP modification records.
The permittee shall maintain records showing the dates of all SWPPP modifications. The records must include a signature of the person authorizing each change (see section 7.2.17), date, and a brief summary of all changes. Log all changes and include relevant attachments in Attachment L.

7.4.4. Certification requirements.
All modifications made to the SWPPP consistent with section 7.4. must be certified, signed, and dated by the Certifying Person that meets the requirements in section 15 of appendix A, chapter 11-55 or the duly authorized representative that meets the requirements of 11-55-07(b). (See section 7.2.17)

7.4.5. Required notice to other contractors.
Upon determining that a modification to the SWPPP is required, if there are multiple contractors covered under this permit, the Contractor shall immediately notify any contractors who may be impacted by the change to the SWPPP.

13.0 Monthly Compliance Report Submittal Requirements

Submit to the Engineer a monthly compliance report, which shall include but is not limited to information as required in the NGPC, any updates to NOI information already on file with DOH, and any incidences of non-compliance and corrective actions. Submit this information within 2 working days of the end of the month. The monthly compliance report shall be kept on-site and available by the end of the next business day when requested by DOH. Upon DOH receiving EPA's Cross-Media Electronic Reporting Regulation (CROMERR), the monthly compliance reports shall be submitted through the e-Permitting Portal. Any comments provided by DOH shall be answered in the time specified and to the satisfaction of DOH. If the activity is in compliance and none of the information on file with DOH requires updating, or there were no incidences of non-compliance, preparation of the monthly compliance information is still required which states that there were "no changes, updates, or any incidences of non-compliance to report.

Note: EPA's Cross-Media Electronic Reporting Regulation (CROMERR) sets performance-based, technology-neutral standards for systems that states, tribes, and local governments use to receive electronic reports from facilities they regulate under EPA-authorized programs and requires program modifications or revisions to incorporate electronic reporting. CROMERR also addresses electronic reporting directly to EPA.

☒ *HDOT's form in Attachment J will be used.*

SWPPP Attachments

Attachment A – Contractor/Sub-Contractor Control Maps, Property Boundary Maps, State Waters and BMP Maps, and BMP Details (SWPPP Sections 7.2.4, 7.2.6.1, 7.2.6.2 to 7.2.6.8 & 7.2.10)

MAPS SHOWING LOCATIONS OF CONTRACTOR/SUB-CONTRACTOR CONTROL, PROJECT SITE MAPS, CONSTRUCTION PLANS/DRAWINGS, BMP LOCATION MAPS, AND BMP DETAILS

Attachment B – HDOT SWPPP Training Log (SWPPP Section 7.2.13)

Instructions

Check Appropriate Box and Include Additional Sheet for Each of the Training Classes Listed Below on the Training Log Form:

A) Attendance at Department Of Transportation, Highways Division Annual Construction Site Runoff Control, Pollution Prevention, and Good Housekeeping Training for Contractors.

B) Attendance at Non-HDOT sponsored Stormwater BMP Training Courses.

C) Participation in viewing Annual HDOT Construction Site Runoff Control, Pollution Prevention, and Good Housekeeping Training for Contractors on DVD provided by HDOT.

TRAINING LOG

- ☐ *Department of Transportation, Highways Division Annual Construction Site Runoff Control, Pollution Prevention, and Good Housekeeping Training for Contractors*
- ☐ *Non-HDOT Sponsored Stormwater BMP Training Courses*
  *Name of Course/Sponsor*_____
- ☐ *Annual HDOT Construction Site Runoff Control, Pollution Prevention, and Good Housekeeping Training for Contractors on DVD Provided by HDOT*

Project Name:
Project Location:
Instructor's Name(s):
Instructor's Title(s):

Course Location: _____ *Date:* _____

Course Length (hours): _____

Stormwater Training Topic: (check as appropriate)

- ☐ *Erosion Control BMPs*
- ☐ *Sediment Control BMPs*
- ☐ *Non-Stormwater BMPs*
- ☐ *Emergency Procedures*
- ☐ *Good Housekeeping BMPs*

*Specific Training Objective:*_____

_____

Attendee Roster:

No.	***Name of Attendee***	***Company***
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

Add rows as needed

Attachment C - Construction Schedule (SWPPP Section 7.2.5)

CONSTRUCTION SCHEDULE

BASE BID

The date when the SWPPP, including erosion control measures will be implemented: January 2, 2015

All perimeter Sediment Control and Inlet Protection BMPs will be installed prior to construction. These BMPs meet Section 5.1.1.3.1 as the inlets protected and the perimeter control BMPs are downstream of the paving work. These BMPs will be installed per the manufacturer's recommendations.

The date when the general contractor will begin the earth-disturbing activities:

MP 11.2	April 13, 2015
MP 13.0	January 15, 2015
MP 14.7 to 14.9	May 4, 2015
MP 16.3	May 18, 2015

Cessation, temporarily or permanently, of construction activities on the site:

MP 11.2 June 1, 2015
Guardrail installation, berm removal, and restriping will be completed.

MP 13.0 July 6, 2015
Retaining wall, road repaving and restriping, and guardrail installation will be completed.

MP 14.7 to 14.9 June 22, 2015
Berm removal, guardrail installation, and restriping will be completed.

MP 16.3 August 17, 2015
Drain system, concrete gutter installation, and restriping will be completed.

Final or temporary stabilization of areas of exposed soil: Disturbed areas to be stabilized with asphalt concrete pavement and or grass/hydromulch

MP 11.2	July 1, 2015
MP 13.0	August 10, 2015
MP 14.7 to 14.9	July 20, 2015
MP 16.3	September 14, 2015

The date when the general contractor will end site disturbance:

MP 11.2	July 1, 2015
MP 13.0	August 10, 2015
MP 14.7 to 14.9	July 20, 2015
MP 16.3	September 14, 2015

The date when erosion control measures will be removed:

MP 11.2	July 15, 2015
MP 13.0	August 24, 2015
MP 14.7 to 14.9	August 3, 2015
MP 16.3	September 28, 2015

The date when the Notice of Cessation form will be submitted: Oct 5, 2015

ADDITIVE ALTERNATE MP 8.1, MP 17.7, MP 19.0, MP 21.5; MP 15.7

To be determined. Fiscal Year 2015/2016

Attachment D – Subcontractor Certifications/Agreements (SWPPP Section 7.2.4)

SUBCONTRACTOR CERTIFICATION

*NGPC File No: HIR0000*_____

Project Title: _____

Operator(s): _____

As a subcontractor, you are required to comply with the Storm Water Pollution Prevention Plan (SWPPP) for any work that you perform on-site. Any person or group who violates any condition of the SWPPP may be subject to substantial penalties or loss of contract. You are encouraged to advise each of your employees working on this project of the requirements of the SWPPP. A copy of the SWPPP is available for your review at the office trailer.

Each subcontractor engaged in activities at the construction site that could impact storm water must be identified and sign the following certification statement:

I certify under the penalty of law that I have read and understand the terms and conditions of the SWPPP for the above designated project and agree to follow the BMPs and practices described in the SWPPP.

This certification is hereby signed in reference to the above named project:

*Company:*_____

*Address:*_____

*Telephone Number:*_____

*Type of construction service to be provided:*_____

_____

Signature: _____

Title: _____

Date: _____

Attach copies, retain originals on-site

Attachment E3 – HDOT Inspection Report for Kauai, Maui, and Big Island

HDOT INSPECTION REPORT FORM

*Date:*_____ *Project/Site:*_____ *Permit No.: HI*_____

*Inspector's Name:*_____

*Inspector's Title:*_____

*Weather:*_____

*Rain Gauge Site and Amount in Inches (If applicable)*_____ _____ *inches*

The Following Areas Have been Inspected	***Yes***	***No***	***N/A***	***Notes***
9.1.5a All areas that have been cleared, graded, or excavated and that have not yet completed stabilization consistent with section 5.2				
9.1.5b All storm water controls (including pollution prevention measures) installed at the site to comply with this permit				
9.1.5c Material, waste, borrow, or equipment storage and maintenance areas that are covered by this permit				
9.1.5d All areas where storm water typically flows within the site, including drainageways designed to divert, convey, and/or treat storm water				
9.1.5e All points of discharge from the site				
9.1.5f All locations where stabilization measures have been implemented				

9.1.5 Were any portions of the site not inspected due to unsafe conditions? *YES* ☐ *NO* ☐

If answering yes above, provide reasons why inspection of the site (or portions thereof) were unsafe and locations not inspected

Site Specific Best Management Practices (BMPs) Plan	***Yes***	***No***	***N/A***	***Date Corrected***	***Notes***
Is a copy of the Site Specific BMPs plan available at the site?					
Is the Site Specific BMPs plan certified, signed, and dated?					
Is the Site Specific BMPs plan current and up-to-date?					
Are accompanying erosion and sediment control (ESC) drawings available at the site?					
Are the Erosion and Sediment Control (ESC) drawings up-to-date?					
Are all NPDES permits available at the site?					
Are inspection records available at the site?					

Insert or removes rows, fill in blanks to tailor to your site.

Best Management Practices	Location	Installed Per Specifications (Y/N)	Adequate	Needs Maintenance	N/A	Date Corrected	Notes
Controlling Storm Water Flowing onto and through the Project (run-on diversion, silt fence, vegetated filter strips and buffers, etc.							
Soil Stabilization (topsoil management, seeding and planting, mulching, geotextiles and mats, etc.)							
Slope Protection (seeding and planting; mulching; geotextiles and mats; slope roughening, terracing and rounding, etc.)							
Storm Drain Inlet Protection							
Perimeter Controls and Sediment Barriers (silt fence, vegetated filer strips and buffers, etc.)							
Sediment Basins and Detention Ponds (sediment traps, sediment basins, etc.)							
Stabilized Ingress/Egress Structures							
Additional Erosion and Sediment Control BMPs							

Best Management Practices	Location	Installed Per Specifications (Y/N)	Adequate	Needs Maintenance	N/A	Date Corrected	Notes
Material Handling and Waste Management (hazardous waste management, concrete waste management, etc.)							
Material Storage							
Spill Prevention/Control							
Baseyards/Staging Areas							
Washout Areas							
Concrete Washout/Waste							
Paint Washout/Waste							
Proper Equipment/Vehicle Fueling and Maintenance Practices							
Equipment/Vehicle Fueling							
Equipment/Vehicle Cleaning							
Equipment/Vehicle Maintenance							
Additional Non-Erosion or Sediment Control BMPs							
Post Construction BMPs (flared culvert end sections, rip-rap and gabion inflow protection, outlet protection and velocity dissipation devices, etc.)							
Other							
Sawcutting							
Dust Control							

Best Management Practices	Location	Installed Per Specifications (Y/N)	Adequate	Needs Maintenance	N/A	Date Corrected	Notes
Dewatering							

Insert or removes rows, fill in blanks to tailor to your site.

Site Conditions	Yes	No	N/A	Notes and Corrective Actions
9.1.6.1 Do all erosion and sediment controls and pollution prevention controls installed, appear to be operational, and working as intended to minimize pollutants discharges?				
9.1.6.1 Any controls need to be replaced, repaired, or maintained in accordance with HAR Ch. 11-55 sections 5.1.1.4 and 5.3.2?				
9.1.6.2 Any conditions present that could lead to spills, leaks, or other accumulations of pollutants on the site?				
9.1.6.3 Any locations where new or modified storm water controls are necessary to meet the requirements of HAR Ch. 11-55 sections 5 and/or 6?				
9.1.6.5 Any incidents of noncompliance observed?				
Are off-site flows entering the construction site?				
9.1.6.4 At points of discharge are there signs of visible erosion and sedimentation that have occurred and are attributable to the discharge?				
9.1.6.4 On the banks of any state waters flowing within the property boundaries are there signs of visible erosion and sedimentation that have occurred and are attributable to the discharge?				

Site Conditions	Yes	No	N/A	Notes and Corrective Actions
9.1.6.4 On the banks of any state waters flowing adjacent to the property are there signs of visible erosion and sedimentation that have occurred and are attributable to the discharge?				
Are construction materials/debris/trash/soil stored or disposed of properly at the site?				
Is there vehicle tracking from the site to receiving streets?				
Do locations exist where additional or revised BMPs are needed?				
Do locations exist where BMPs may no longer be necessary and may be removed?				
Does your site evaluation indicate a need to update or revise the current Site Specific BMPs plan and/or accompanying erosion and sediment control drawings?				

9.1.6.6 Discharges Observed During Inspection

Is a discharge occurring during the inspection? YES ☐ *NO* ☐

If answering YES above answer the following:

*9.1.6.6a Identify all points of the property from which there is a discharge*_____

*9.1.6.6b What color is the discharge?*_____

*9.1.6.6b Is there an odor? Describe if possible.*_____

*9.1.6.6b Are there floating, settled, or suspended solids? If so, describe?*_____

*9.1.6.6b Is there foam?*_____

*9.1.6.6b Does the discharge contain an oil sheen?*_____

9.1.6.6b Are there any other obvious indicators of storm water pollutants in the discharge? _____

_____

9.1.6.6c Is the suspected reason for the discharge that a storm water control is clearly not operating as intended or is in need of maintenance?

_____

_____

Photos

Photos taken during the BMP inspection documented above are:

- ☐ *Attached*
- ☐ *Inserted*
- ☐ *Not taken, attached, or inserted.*

(Insert photos in this section if you so choose.)

I certify that I am the person who performed the inspection documented above and that all information recorded on this form is a true and accurate representation of what was observed at the construction site recorded above. Any photographs attached that were taken during the inspection are a true, accurate, and unaltered representation of what was observed during the inspection documented above.

Inspector's Printed Name: _____ *Title:* _____

Inspector's Signature: _____ *Date of Inspection:* _____

Inspector's Printed Name: _____ *Title:* _____

Inspector's Signature: _____ *Date of Inspection:* _____

The certifying person and duly authorized representative shall meet the requirements of Hawaii Administrative Rules 11-55, Appendix A, Section 15.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: _____ *Date:* _____

Duly Authorized Person's Name: Ferdinand Cajigal

Duly Authorized Person's Position Title: Maui District Engineer

Duly Authorized Person's Company or Agency: Department of Transportation

Department: Department of Transportation

Division: Department of Transportation, Highways Division

Phone Number: (808) 873-3538 *Fax No.:* (808) 873-3544

Person Email: Ferdinand.Cajigal@hawaii.gov

Attachment F – Spill Prevention and Response Procedures (SWPPP Section 7.2.11.1)

Spill Prevention and Control Plan (SM-10)

Description

Practices and procedures to reduce or prevent leaks or spills of fuels, oil, and other chemicals which may be discharged into the storm drain system or adjacent water bodies.

Applications

Construction projects involving the storage of chemicals or hazardous substances.

Installation and Implementation Requirements

General Requirements include the following:
• Store hazardous materials and wastes in covered containers and protect containers from vandalism;
• Maintain an ample supply of cleanup materials for spills shall be readily accessible;
• Train employees on proper spill prevention and cleanup; and
• Review spill response requirements at all applicable work sites.
Cleanup Requirements include the following:
• Immediately clean up leaks and spills;
• Use minimal water to clean up spills on paved surfaces. For small spills, use a rag. For general cleanup, use a damp mop. For larger spills, use absorbent materials. Properly dispose of materials used to clean up hazardous materials;
• Do not hose down or bury spills; and
• Eliminate the source of the spill to prevent a discharge or continuation of an ongoing discharge.

Reporting includes the following:
• Report significant spills to the U.S. coast Guard, DOH Clean Water Branch, Hawaii State Office of Hazard Evaluation and Emergency Response, and City and County of Honolulu agencies, such as the Fire Department and
• Per federal regulations, report significant spills of oil onto an adjoining shoreline or into a water body to the National Response Center at 800-424-8802 (24 hour).

Vehicle and equipment maintenance activities requirements include the following:
• Use a designated area and/or secondary containment for on-site repair or maintenance activities. These areas shall be located away from drainage courses;
• Complete regular inspections of on-site vehicles and equipment, including delivery trucks and employees' vehicles, for leaks. Do not allow vehicles or equipment with leaks on-site. Provide Vehicle and Equipment Maintenance BMPs in SM-12 if repair must be made on site.
• Secondary containment devices such as drop cloths and drain pans shall be used to catch leaks or spills while removing or changing fluids from vehicles or equipment;
• Place drip pans or absorbent materials under paving equipment not in use;
• Use absorbent materials on small spills. Do not hose down or bury spills. Remove and properly dispose of cleanup materials;
• Immediately transfer used fluids to the appropriate waste or

	recycling containers. Avoid leaving full drip pans and open containers on-site; *• Drain excess oil from oil filters prior to disposal by placing filter in a funnel over a waste oil recycling drum. Recycle oil filters if this service is available or dispose in accordance with Federal, State, and Local requirements;*
Installation and Implementation Requirements (Continued)	*• Store all cracked batteries in a non-leaking secondary container with cover even if the acid appears to have drained out. Handle dropped batteries as cracked batteries until assured it is not leaking.* *• Dispose of or recycle oil in accordance with Federal, State, and Local requirements. Store in water-tight container and provide cover to prevent containers from coming into contact with rainwater or secondary containment.* *Vehicle and equipment fueling activities requirements include the following:* *• Use designated areas for required on-site fueling. Fueling areas shall be located away from drainage courses;* *• Avoid "topping off" of fuel tanks; and* *• Use secondary containment devices such as drain pans to catch spills or leaks while fueling.*
Limitations	*Use of a private spill cleanup company may be necessary.*
Inspections and Maintenance	*• Update spill prevention and control plans and stock necessary cleanup materials as the chemicals used or stored on-site change.* *• Ample supplies of materials for spill control and cleanup shall be located on-site near maintenance and material storage or unloading areas.*

Emergency Spill Response Plan

Procedures for expeditiously stopping, containing, and cleaning up spills, leaks, and other releases (7.2.11.1a).

Spill Coordinator
The Contractor shall appoint a Primary and Secondary Emergency Spill Response Coordinator who will be responsible for the reporting of spills, coordinating contractor personnel for spill cleanup, subsequent site investigations, and associated reports. In the event of a spill, the Emergency Spill Response Coordinator will be responsible for determining the extent of the containment/isolation area and cleanup methods. Include Names, positions, and emergency contact information.
The Contractor shall make contact with a Spill Cleanup Emergency Response Contractor prior to start of construction to provide sufficient information for the spill contractor to be prepared should they receive a call in the event of an emergency.

Immediate Response
All spills regardless of size must be reported to the Emergency Spill Response Coordinator and the (HDOT Construction Resident Engineer/Project Engineer/Construction Inspector). The person observing the incident will take the following actions:
• Assess the safety of the situation (including the risk to the surrounding public).
• Alert nearby personnel and secure the immediate area for safety.

If the person is aware the chemical spilled is not toxic or a known petroleum product do the following:
• Make every effort to remove potential ignition sources and stop the source of the spill.
• Clean the spill using absorbent materials available on-site. Do not hose down or bury spills. Remove and properly dispose of cleanup materials.
• Promptly notify the Emergency Spill Response Coordinator. Report name, the spill location, material spilled, and the extent of the incident.

Upon learning of the spill, the Emergency Spill Response Coordinator will implement the following measures:
• Assess the safety of the situation (including the risk to the surrounding public).
• If the source of the spill is toxic or unknown, immediately notify the Fire Department and ask for assistance from the HAZMAT team.
• Secure the area by stopping traffic if necessary and install barricades or safety fencing around the area.
•If safe to do so, prevent hazardous material from entering the stormwater or sewer system or any waterbodies by covering/blocking any drains in the spill area, and providing containment BMPs to either prevent stormwater from contacting hazardous material or contain commingled stormwater.
•If safe to do so, absorbent materials will be applied to the spill area. Contaminated soils and vegetation will be excavated and temporarily placed on and covered by plastic sheeting or in an appropriate container or surrounded by impermeable lined berms in a containment area a minimum of 100 feet away from any wetland or waterbody, until proper disposal is arranged.
• Notify appropriate agencies as required by Federal, State, and local regulations.
•For petroleum spills, provide notification if the release meets any of conditions the below:
a) Greater than 25 gallons
b) Not cleaned within 72 hours
c) Enters a storm drainage system or state waters
• Arrange for proper disposal (including contaminated personal protective equipment and/or cleanup supplies) in accordance with Federal, State, and local regulations and Manufacturer's instructions if known.
• If a spill is beyond the scope of on-site equipment and personnel, contact the Spill Cleanup Emergency Response Contractor to further contain and clean up the spill.
• Notify the (HDOT Construction Resident Engineer/Project Engineer/Construction Inspector).

Contents of the Spill kits shall be determined by the Contractor based on the anticipated type and quantity of hazardous material to be stored/used on-site. The kit should contain at minimum:
•55 gallon drum with lid
•absorbent pads (50)
•absorbent socks (12)
•absorbent pillows (5)
•1 pair goggles or faceshield
•1 pair elbow length gloves
•1 disposable apron
•disposable bags with ties (3)
•Include additional materials such as Absorbent Skimmers or Booms for work adjacent or over State Waters as needed.
•Include additional materials as necessary to secure the spill area.

Procedures for notification of appropriate facility personnel, emergency response agencies, and regulatory agencies where a leak, spill, or other release containing a hazardous substance or oil in an amount equal to or in excess of a reportable quantity consistent with HAR 11-55 subsection 5.3.4. and established under either 40 CFR Part 110, 40 CFR Part 117, or 40 CFR Part 302, occurs during a 24-hour period (7.2.11.1.b).

• Contact information must be in locations that are readily accessible and available.

• The Contractor shall take all reasonable measures to protect human health and the environment.

• For emergencies or life-threatening situations, call 911 first.

• Notify responsible parties listed below as required and immediately notify DOH Clean Water Branch and the National Response Center of the incident. The notification shall also include the identity of the pollutant sources and the implemented control or mitigation measures. Notify other agencies as required by Federal/State/Local laws. List additional agencies or personnel below as required.

1. Owner Contact/Emergency Contact Number: (HDOT Construction Resident Engineer/Project Engineer/Construction Inspector)

2. Authorized Representative/ Emergency Contact Number: (HDOT District Engineer or designated representative who can contact Authorized Representative)

3. Contractor/ Emergency Contact Number: (Contractor Emergency Contact)

4. Department of Health
Clean Water Branch (During regular working hours): 808-586-4309
Hawaii State Hospital Operator (After hours):..... 808-247-2191

AND E-mail Clean Water Branch via email at cleanwaterbranch@doh.hawaii.gov

5. Hawaii Hazard Evaluation and Emergency Response (HEER) 808-586-4249
(After Hours) 808-247-2191

AND

Appropriate Local Emergency Planning Committee (LEPC)

For projects on Hawaii Island
Henry Silva, Hawaii County LEPC.....808-936-0858

For projects on Oahu

Leland Nakai Department of Emergency Management.....808-723-8958
LEPC.....808-723-8960
(After Hours).....911

For projects on Kauai
Clifford Ikeda, Kauai Civil Defense.....808-241-1800
(After Hours).....808-241-6711

For projects in Maui County
Scott Kekuewa, Maui Fire Department.....808-270-7911
(After Hours).....911

6. National Response Center (NRC).....(800)424-8802

7. Coast Guard Operations Center, Honolulu (working hours) 808-522-8246
(After hours).....808-247-2191

8. County Fire Department/Police..... 911

• If required, fill in and follow the requirements of the HDOT Corrective Action Report.

Attachment G – Waste Management Procedures (SWPPP Section 7.2.11.2)

Waste Management Procedures

The Contractor shall submit the DOH "Solid Waste Disclosure Form for Construction Sites" to the Engineer within 30 calendar days of contract execution. The form can be downloaded at:
http://health.hawaii.gov/shwb/files/2013/06/swdiscformnov2008.pdf

Provide a copy of all the disposal receipts from the facility permitted by the Department of Health to receive solid waste to the Engineer monthly, this should also include documentation from any intermediary facility where solid waste is handled or processed, or as directed by the Engineer.

Solid Waste Management (SM-6)

Description	*Practices and procedures to prevent or reduce the discharge of pollutants from construction site wastes to the drainage system or adjacent water bodies.*
Applications	*Construction projects generating non-hazardous solid wastes from construction and demolition (C&D) activities. These wastes include C&D wastes, inert fill material, and recycle/reuse material.* *C&D wastes include materials originating from the demolition of roads, buildings, or other structures. Materials generated from these activities include concrete, brick, bituminous concrete, wood, masonry, composition roofing, roofing paper, steel, plaster, and minor amounts of metals.* *Inert fill materials are wastes that are not contaminated with hazardous materials such as asbestos or lead-based paint. Inert fill materials do not decompose or produce leachate or other products harmful to the environment. Inert fill materials include earth, soil, rock, cured asphalt, brick, and clean concrete (no exposed steel-reinforcing rod) with no dimension greater than eight inches.* *Recycle/reuse materials include but are not limited to: asphalt pavement, cardboard, concrete aggregate (no LBP, asbestos-free), electronic equipment, excavated rock, soil (uncontaminated), Freon from appliances, glass, green waste, metals, ferrous/non-ferrous, used tires, wood and lumbers, furniture, etc.*
Installation and Implementation Requirements	*• Separate contaminated clean up materials from C&D wastes. Contamination may be from hazardous substances, friable asbestos, waste paint, solvents, sealers, or adhesives. (See Section SM-9 Hazardous Waste Management)* *• Inert fill material shall not contain vegetation, organic material, or other solid waste.* *• Inert fill materials shall not be mixed with other C&D waste.* *• Provide waste containers of sufficient size and number to contain construction and domestic waste. Dumpsters should be securely lidded. Roll off containers should have a cover to keep rain out or loss of waste during windy conditions. Waste containers shall meet all local and State solid waste management regulations* *• Clean up and dispose of waste in designated waste containers.* *• The Contractor's supervisory personnel shall be instructed regarding the correct practices for waste disposal. Post notices stating these practices in the office*

trailer and the Contractor shall be responsible for seeing that these practices are followed.

Limitations

None

Inspections and Maintenance

- *Inspect construction waste and recycling areas regularly.*
- *Schedule solid waste collection regularly. Empty waste containers weekly or when they are two-thirds full, whichever is sooner.*
- *Schedule recycling activities based on construction/demolition phases.*
- *Do not allow containers to overflow and clean up immediately if they do.*

Sanitary/Septic Waste Management (SM-7)

Description	*Practices and procedures to reduce or prevent the discharge of sanitary wastes from construction sites into the storm drain system or adjacent water bodies.*
Applications	*Construction sites with temporary or portable sanitary/septic waste systems.*
Installation and Implementation Requirements	*• Locate sanitary facilities in a convenient place away from drainage facilities and State Waters.* *• Untreated wastewater shall not be discharged into the drainage system, State waters, to the ground or buried.* *• Position sanitary facilities where they are secure and will not be knocked down.* *• Comply with the State of Hawaii, Department of Health requirements when using an on-site disposal system such as a septic system.* *• Avoid illicit discharges by properly connecting temporary sanitary facilities to the sanitary sewer system.* *• Sanitary/septic systems discharging to the sanitary sewer shall comply with the local wastewater treatment plant requirements.* *• A licensed service provider shall maintain sanitary/septic facilities in good working order.* *• Schedule regular waste collection by a licensed transporter at least once a week or as required.*
Limitations	*None*
Inspections and Maintenance	*• Inspect and maintain facilities regularly.* *• Schedule regular waste collection.* *• Prevent illicit discharges.*

Hazardous Waste Management (SM-9)

Description

Practices and procedures to prevent the discharge of hazardous waste to the land, storm drain system, sewer system, or adjacent water bodies.

Applications

Handling procedures on construction sites involving one of the following hazardous wastes:
- *Paints and solvents;*
- *Petroleum products such as oils, fuels, and grease;*
- *Herbicides;*
- *Acids for cleaning masonry;*
- *Concrete curing and repair compounds; and*
- *Contaminated waste material.*

Hazardous waste management shall also be implemented for wastes from existing structures including:
- *Sandblasted material such as grit or chips containing lead, cadmium, or chromium-based paints;*
- *Asbestos; and*
- *Polychlorinated Biphenyls (PCBs). Older transformers are a common source of PCBs.*

Installation and Implementation Requirements

Recognize potentially hazardous waste by implementing the following:
- *Review product label and shipping papers;*
- *Identify key words such as flammable or ignitable (able to catch fire); carcinogenic (causes cancer); toxic or poisonous (injures or harms people or animals); and hazardous, danger, caustic or corrosive (burns through chemical action). Hawaii Administrative Rules (HAR) Title 11, Chapter 261 includes a list of hazardous waste and criteria;*
- *Review safety data sheets (SDS), formerly material safety data sheets (MSDS) from the manufacturer and supplier of the product; and*
- *Contact DOH, Hazardous Waste Program Office at 586-4226 for additional questions and information.*

Material use practices and procedures for hazardous waste management include the following:
- *Dispose container only after all of the product has been used;*
- *Keep the original product label on the container since it includes important safety and disposal information;*
- *Restrict amount of herbicide prepared to quantity necessary for the current application. Comply with the recommended usage instructions. Do not apply herbicides during or just before a rain event; and*
- *Remove as much paint from brushes on painted surface. Do not clean or rinse water-based paint brushes in soil, streets, gutters, storm drains, or streams. Rinse from water-based paints shall be discharged into the sanitary sewer system. Filter and re-use solvents and thinners. Dispose of oil-based paints and residue as a hazardous waste.*
- *See SM-2 Material Delivery and Storage and SM-3 Material Use for other requirements.*

Waste recycling and disposal practices and procedures for hazardous waste management include the following:
• Designate areas for collection of hazardous wastes;
• Store hazardous materials and wastes in covered containers and label according to applicable Resource Conservation and Recovery Act (RCRA) requirements and all other applicable federal, state, and local requirements;
• Provide appropriately-sized secondary containment for hazardous waste containers or cover to prevent from contact with rainwater and stormwater runoff;
• Keep wastes separate to prevent chemical reactions which make recycling and disposal difficult;
• Recycle useful materials such as oil or water-based paint;
• Do not dispose of toxic liquid wastes (solvents, used oils, and paints) or chemicals (additives, acids, and curing compounds) in dumpsters allocated for construction debris;
• Schedule periodic waste collection to prevent overflow of containers; and
• Ensure collection, removal, and disposal of hazardous waste complies with manufacturer's recommendations and in compliance with federal, state, and local requirements.
• Clean up spills immediately, using dry clean-up methods where possible, and dispose of used materials properly.
• Do not clean surfaces or spills by hosing the area down.
• Eliminate the source of the spill to prevent a discharge or a continuation of an ongoing discharge.

Hazardous waste management training shall include the following:
• Awareness of potential dangers from hazardous wastes;
• Identifying hazardous wastes;
• Proper hazardous waste storage and disposal procedures;
• Safety procedures for hazardous wastes;
• Placement of warning signs in areas recently treated with chemicals;
• Use of cleanup materials for spills.

Limitations

Hazardous waste that cannot be reused or recycled shall be disposed of by a licensed hazardous waste hauler.

Inspections and Maintenance

• Regularly inspect hazardous waste collection and storage areas and containers.
• Schedule hazardous waste collection regularly.

Attachment H – Emergency Related Projects, Departures from Manufacturer's Specifications for Fertilizers Containing Nitrogen or Phosphorus, Buffer Documentation, Documentation of Compliance with UIC Requirements, Other State/Federal/County Permits, & Other Information as Requested by the Director (SWPPP Sections 7.2.3, 7.2.9, 7.2.14, 7.2.15, and 7.2.16)

Attachment I – Corrective Action Reports

Hawaii Department of Transportation Corrective Action Report

Section 10.1 "Corrective Actions" Defined

Corrective actions are actions taken in compliance with this section to:

a. Repair, modify, or replace any storm water control used at the site
b. Clean up and properly dispose of spills, releases, or other deposits
c. Remedy a permit violation

Section 10.2.1. Triggering Events

The following are triggers that require corrective action be taken (this triggering condition is to be documented within 24 hours of discovering the occurrence):

- ❑ *A required storm water control was never installed, was installed incorrectly, or not in accordance with the requirements in HAR Chapter 11-55, sections 5 and/or 6.*
- ❑ *The Contractor/Engineer becomes aware that the storm water controls installed and being maintained are not effective enough for the discharge to meet applicable water quality standards or applicable requirements in HAR Chapter 11-55, section 6.1. The Contractor shall notify the Engineer immediately. The Engineer will notify the Department of Health by the end of the next work day.*

  *Date/time Engineer notified by Contractor*_____

  *Date/time DOH notified by Engineer*_____

- ❑ *One of the prohibited discharges below is occurring or has occurred:*
  - ❒ *Wastewater from washout of concrete*
  - ❒ *Wastewater from washout and cleanout of stucco, paint, form release oils, curing compounds and other construction materials*
  - ❒ *Fuels, oils, or other pollutants used in vehicle and equipment operation and maintenance*
  - ❒ *Soaps, solvents, or detergents used in vehicle and equipment washing*
  - ❒ *Toxic or hazardous substances from a spill or other release*

Section 10.2. Requirements for Taking Corrective Actions

The Contractor shall complete corrective actions in accordance with the deadlines specified below. In all circumstances, the Contractor shall immediately take all reasonable steps to minimize or prevent the discharge of pollutants until a permanent solution is installed and made operational, including cleaning up any contaminated surfaces so that the material will not discharge in subsequent storm events. Immediately means the same day the condition is discovered, unless it is too late in the day, in which initiation of corrective action must begin on the following work day.

Following any of the above triggering events, the Contractor shall install a new or modified control and make it operational, or complete the repair, by no later than 7 calendar days from the time of discovery. If it is infeasible to complete the installation or repair within 7 calendar days, the Contractor shall document and submit to the Engineer, for his agreement, why it is infeasible to complete the installation or repair within the 7 calendar day timeframe and

document a schedule for installing the storm water control(s) and making it operational as soon as practicable after the 7-day timeframe.

*Date installation/repair completed or date/time prohibited discharge ceased*_____

_____

Reason it is infeasible to complete installation or repair within 7 calendar days and proposed schedule (if applicable) _____

_____

_____

_____

10.4.1. Initial Report (24 Hours)

Within 24 hours of discovering the occurrence of one of the triggering conditions in HAR Chapter 11-55, section 10.2.1. at the site, the Contractor must complete the following:

- *The nature of the condition identified*_____

  _____

  _____

- *The date and time of the condition identified and how it was identified* _____

  _____

  _____

10.4.2. Final Report (7 Days)

Within 7 calendar days of discovering the occurrence of one of the triggering conditions in HAR Chapter 11-55, section 10.2.1. at the site, the Contractor must complete a report of the following:

- *Any follow-up actions taken to review the design, installation, and maintenance of storm water controls, including the dates such actions occurred*_____

  _____

  _____

- *A summary of storm water control modifications taken or to be taken, including a schedule of activities necessary to implement changes, and the date the modifications are completed or expected to be completed*_____

  _____

  _____

- *Notice of whether SWPPP modifications are required as a result of the condition identified or corrective action*_____

  _____

  _____

Section 10.2.2. SWPPP Modification Due to Corrective Actions

Where corrective actions result in changes to any of the storm water controls or procedures documented in the SWPPP, modify the SWPPP accordingly within 7 calendar days of completing corrective action work.

❑ *Date SWPPP modified*_____

Section 10.3 Corrective Actions Required by the Department of Health (DOH)

The Contractor shall comply with any corrective actions required by the department as a result of permit violations found during an inspection by DOH or EPA.

Was the Corrective Action triggered by a DOH/EPA inspection?

❑ *Yes* ❑ *No*

❑ *Date of DOH/EPA Inspection*_____

Section 10.4.3. Certification

The certifying person and duly authorized representative shall meet the requirements of Hawaii Administrative Rules 11-55, Appendix A, Section 15.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

*Signature:*_____ *Date:*_____

Person Name: Ferdinand Cajigal

Person Position Title: Maui District Engineer

Person Company or Agency: State of Hawaii

Department: Department of Transportation *Division:* Highways Division

Phone Number: (808) 873-3538 *Fax No.:* (808) 873-3544

Person Email: Ferdinand.Cajigal@hawaii.gov

Attachment J – Monthly Compliance Report

Hawaii Department of Transportation Monthly Compliance Report

*DOH NGPC File No.*_____
*Project Name:*_____
*Project No:*_____
*Reporting Month and Year:*_____
*Date Prepared:*_____

Complete this form within 2 working days of the end of the month. This report must be kept on-site and made available by the end of the next business day when requested by DOH. Check the applicable boxes below and include attachments when necessary.

☐ *Corrective Action Reports for this month are attached.*

☐ *Changes to the information on file with DOH for the past month are attached.*

☐ *No changes, updates, or any incidences of non-compliance to report.*

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

*Signature:*_____ *Date:*_____

Person Name: Ferdinand Cajigal

Person Position Title: Maui District Engineer

Person Company or Agency: State of Hawaii

Department: Department of Transportation *Division:* Highways Division

Phone Number: (808) 873-3538 *Fax No.:* (808) 873-3544

Person Email: Ferdinand.Cajigal@hawaii.gov

Attachment K – Post-Authorization Additions to the SWPPP

Attachment L – SWPPP Modification Log

MODIFICATION LOG

Each Modification must be signed by the authorized representative authorizing the changes in Section 7.2.17 within 7 calendar days following the occurrence of any of the conditions listed in section 7.4.1.

Project Name: _____

SWPPP Contact: _____

Modification No.	***Description of the Modification***	***Date of Modification***	***Modification Prepared by [Name(s) and Title]***

Add rows as needed.

Include any attachments on the following pages.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

REQUEST FOR INFORMATION
DOT RESPONSES
for

HANA HIGHWAY IMPROVEMENTS
HUELO TO HANA, PHASE 2A

PROJECT NO. 360AB-01-09

DISTRICT OF HANA

ISLAND OF MAUI

2014

RFI 1A - Could you confirm that the Contract Time will be computed on a Working Day basis and adjustments to the Completion Time will be granted for the rainy (inclement) weather common to the site of the proposed work?

RFI 1A Response: Confirmed.

RFI 1B - Could you clarify whether the Soil Nail Contractor (selected by the Prime Contractor) will be permitted to submit his Qualifications to the Engineer for review and approval prior to issuance of the NTP?

RFI 1B Response: Yes, qualifications may be submitted to the Engineer after Contract Award and prior to Notice to Proceed.

RFI 1C - Will it be acceptable to have the Engineer require prospective Soil Nail Contractors to submit their qualifications (as provided in §102.01) for his review and approval prior to the Bid Opening Date (BOD) for the purpose of issuing a list of "pre-qualified" Soil Nail Contractors to prospective Prime Bidders prior to the BOD?

RFI 1C Response: Contract will be awarded according to Special Provision Section 102 – Bidding Requirements and Conditions.

RFI 1D - Could you confirm that the Engineer will select the Production Soil Nails to be proof tested prior to installation of all the Soil Nails in the current lift to expedite the testing timeline and the completion of the work in the shortest time possible?

RFI 1D Response: Testing nails shall be selected after installation by the Engineer and the selection of the testing nails could be done along the progress of the construction to expedite the testing timeline.

RFI 1E - Could you clarify whether the Engineer will permit the Soil Nail Contractor to order materials for the work based on the quantities in the Bid Documents to avoid delays in the procurement timeline?

RFI 1E Response: Pre-ordering materials prior to the pre-production program may be permitted provided no cost change if the production nails are required to be lengthened and shortened.

RFI 1F - If the Soil Nail Contractor is permitted to order materials for the work based on preliminary quantities, could you confirm that adjustments to the bar lengths by field coupling and/or splicing of the Soil Nail bars in accordance with the manufacturer's recommendations will be permissible?

RFI 1F Response: Coupling and/or splicing may be permitted provided the manufacturer certifies the details and corrosion protection with approval by the Engineer.

RFI 1G - Could you clarify whether the Soil Nail Contractor will be permitted to provide the submittals required by §657.05 to the Engineer for review and approval prior to issuing an NTP?

RFI 1G Response: Submittals may be forwarded to the Engineer after Contract Award and prior to Notice to Proceed.

RFI 2 - Could you clarify whether a hole diameter other than 8" will be acceptable?

RFI 2 Response: Minimum 8-inch diameter bore hole for the soil nail.

RFI 3A - Can you direct us to where the boring logs are located in the Contract Documents?

RFI 3A Response: Boring log for Mile Post 13.0 location will be provided in Addendum No.1 Construction Drawings.

RFI 3B - In addition to the boring logs, can we be provided a copy of the subsurface exploration report in its entirety, preferably in a digital format such as pdf?

RFI 3B Response: Subsurface exploration report is not available for review by Contractors.

RFI 4 - Could you confirm only a single (One) pre-production verification test on a sacrificial soil nail will be required?

RFI 4 Response: Yes, only one pre-production verification test on a sacrificial soil nail will be required.

RFI 5 - Could you provide more details regarding the access and assistance(regarding installation of strain gauges) to be furnished the Engineer at this difficult work site?

RFI 5 Response: We envision that the strain gauges will be installed onto the soil nail bars at the staging area and the contractor should be protected them from damage during transporting to the site.

RFI 6A - Could you clarify/confirm the 75% payment will be paid as a pro-rata of the quantity of nails completed versus the total quantity of nails required when the installation is accepted?

RFI 6A Response: 75% payment is based on the total quantity of nails installed.

RFI 6B - Could you clarify/confirm the 25% payment will be paid as a single payment (only) when all nails have been installed and upon determination by the Engineer that cleanup of the work area has been completed?

RFI 6B Response: Confirmed.

RFI 6C - Will the Engineer allow the Soil Nail Contractor to submit (for approval) a Schedule of Values allocating the lump sum among the stages of work for the soil nail installations and forming the basis from which progress payments for the work can be made over the period the work is in progress?

RFI 6C Response: Schedule of Values may be submitted, however, progress payments for the work will be distributed according to the Special Provisions and Section 109 – Measurement and Payment.

RFI 6D - Will the Engineer allow the Soil Nail Contractor to propose a unit price for adjustments to the soil nail lengths, if required, on a linear foot basis?

RFI 6D Response: Unit price on a linear foot basis, with back up information, may be proposed to the Engineer after award in accordance with Special Provision Section 104 – Scope of Work.

RFI 7A - Could you confirm the grout must contain a maximum of 4 Gallons of water per sack of cement, which is equal to a W:C ratio of .35:1?

RFI 7A Response: The soil nail grout mix, as designated on the plans, should contain a maximum of 4 gallons of water per 94lb sack of cement.

RFI 7B - Could you clarify whether a differing mix design (other than per Note 4B) will be acceptable if it meets the specified compressive strength and other relevant requirements of the Project Documents?

RFI 7B Response: A differing mix design which performs equally or better may be accepted by the Engineer. The Engineer will determine if the material is equal or better according to the intended design use.

RFI 8A - Could you confirm ASTM A934 is the applicable standard for epoxy coating of the soil nail bars?

RFI 8A Response: Yes, ASTM A934 is the applicable standard for epoxy coating of the soil nail bars.

RFI 8B - Will it be permissible to furnish the soil nail bars in sections to be joined together in the field to provide the required length(s) by employing couplers and procedures in compliance with the manufacturer's recommendations?

RFI 8B Response: No.

RFI 8C - Could you confirm the bars are to be epoxy coated and the associated hardware is to be hot-dip galvanized?

RFI 8C Response: Yes, the soil nail bar is to be epoxy coated and all associated hardware is to be hot-dip galvanized.

RFI 9 - Will it be permissible to furnish the soil nail bars using Grade 75 (ASTM A615) material with published yield and ultimate strengths of approximately (slight variations between manufacturers) 95 kips and 127 kips?

RFI 9 Response: It may be considered, subject to approval by the Engineer, provided yield strength is equivalent to #10 bar Grade 60.

RFI 10A - Can you (HIDOT) provide information on the most "stringent" of the limitations on the sizes and weights of vehicles allowable on the route via "The Road to Hana" to the site?

RFI 10A Response: Vehicle size and weight limited to 10 Tons along State Highway, Route 360.

RFI 10B - What are the permissible working hours and road blockage hours at the site?

RFI 10B Response: For permissible working hours, see Standard Specification Section 107. Follow traffic control plan for single-lane alternating traffic during working hours. Intermittent, short-duration (a few minutes) road closure is allowed.

RFI 11A - Is a shop drawing submittal required for the soil nail bars?

RFI 11A Response: Yes, please submit soil nail bar shop drawings along with all other required submittals as stated in Special Provision Section 657.05.

RFI 11B - Could you confirm that the corrugated plastic sheathing is to extend a minimum 3" into the 4" Initial Shotcrete Facing? Will field trimming of the plastic sheathing be permitted?

RFI 11B Response: Yes, corrugated plastic sheathing shall extend a minimum 3-inches into the initial shotcrete facing. Field trimming of the plastic sheathing will be permitted.

RFI 11C - Could you clarify the requirements of the Certificate of Compliance stipulated in §657.05F relative to the Soil Nail Centralizers?

RFI 11C Response: The certificate of compliance shall meet the requirements of Special Provision 657.03(B)(3).

End of RFI Responses