

STATE OF HAWAII

DEPARTMENT OF HAWAIIAN HOME LANDS 91-5420 Kapolei Parkway, Kapolei, HI. 96707

TECHNICAL SPECIFICATIONS FOR BIDDING AND CONSTRUCTION

FOR

FURNISHING LABOR AND MATERIALS FOR

PRINCESS KAHANU ESTATES TRAFFIC CALMING MEASURES

Nanakuli, Island of Oahu, Hawaii

IFB No.: IFB-25-HHL-002

October 2024



1 2	SECTION 203 – EXCAVATION AND EMBANKMENT
3	Make the following amendments to said Section:
4 5 6	(I) Amend 203.03(C)(2)(a) – Maximum Dry Unit Weight from line 245 to line 255 to read as follows:
7 8 9 10 11 12 13	"(a) Maximum Dry Unit Weight. Test for maximum dry unit weight according to AASHTO T 180, and apply the correction for fraction larger than 3/4 inch. Use Hawai Test Method HDOT TM 5 for sample preparation of sensitive soils when so designated by the Engineer."
14	(II) Amend 203.04 – Measurement and 203.05 – Payment to read as follows
15 16 17 18	"203.04 Measurement. The Engineer will not measure roadway excavation borrow excavated material, and imported borrow.
19 20 21 22 23 24	203.05 Payment. The Engineer will not pay for roadway excavation, subsection, unlined gutter excavation, stockpiling selected material, or placing selected material in final position separately. The Engineer shall consider the cost for the accepted excavation and embankment as included in the contract price of the various contract items. The cost for the work prescribed in this section and the contract documents.
25 26 27 28 29	The Engineer will not pay for overhaul separately and will consider the cost as included in the contract price for the various contract items. The cost is for work prescribed in this section and the contract documents.
30 31 32 33	The Engineer will not pay for embankment separately and will consider the cost as included in the contract price for various contract items. The cost is for work prescribed in this section and the contract documents."
34 35 36	END OF SECTION 203

Amend Section 209 - TEMPORARY WATER POLLUTION, DUST, AND EROSION **CONTROL** to read as follows:

"SECTION 209 - TEMPORARY WATER POLLUTION, DUST, AND EROSION CONTROL

209.01 **Description.** This section describes the following:

- (A) Including detailed plans, diagrams, and written Site-Specific Best Management Practices (BMP); constructing, maintaining, and repairing temporary water pollution, dust, and erosion control measures at the project site, including local material sources, work areas and haul roads; removing and disposing hazardous wastes; control of fugitive dust (defined as uncontrolled emission of solid airborne particulate matter from any source other than combustion); and complying with applicable State and Federal permit conditions.
- (B) Work associated with construction stormwater, dewatering, and hydrotesting activities and complying with conditions of the National Pollutant Discharge Elimination System (NPDES) permit(s) authorizing discharges associated with construction stormwater, dewatering, and hydrotesting activities.

(C) Potential pollutant identification and mitigation measures are listed in Appendix A for use in the development of the Contractor's Site-Specific BMP.

Requirements of this section also apply to construction support activities including concrete or asphalt batch plants, rock crushing plants, equipment staging yards/areas, material storage areas, excavated material disposal areas, and borrow areas located outside the State Right-of-Way. For areas serving multiple construction projects, or operating beyond the completion of the construction project in which it supports, the Contractor shall be responsible for securing the necessary permits, clearances, and documents, and following the conditions of the permits and clearances, at no cost to the State.

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209.02 **Materials.** Comply with applicable materials described in Chapters 2 and 3 of the current HDOT "Construction Best Management Practices Field Manual". In addition, the materials shall comply with the following:

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(A) **Grass.** Grass shall be a quick growing species such as rye grass, Italian rye grass, or cereal grasses. Grass shall be suitable to the area and provide a temporary cover that will not compete later with permanent cover. Alternative grasses are allowable if acceptable to the Engineer.

47	(B) Fertilizer and Soil Conditioners. Fertilizer and soil conditioners shall
48	be a standard commercial grade acceptable to the Engineer. Fertilizer shall
49	conform to Subsection 619.02(H)(1) - Commercial Fertilizer.
50	

- (C) **Hydro-mulching**. Hydro-mulching used as a temporary vegetative stabilization measure shall consist of materials in Subsections 209.02(A) -Grass, and 209.02(B) - Fertilizer and Soil Conditioners. Mulches shall be recycled materials including bagasse, hay, straw, wood cellulose bark, wood chips, or other material acceptable to the Engineer. Mulches shall be clean and free of noxious weeds and deleterious materials. Potable water shall meet the requirements of Subsection 712.01 - Water. Submit alternate sources of irrigation water for the Engineer's acceptance if deviating from 712.01 - Water. Installation and other requirements shall be in accordance with portions of Section 641- Hydro-Mulch Seeding including 641.02(D) - Soil and Mulch Tackifier, 641.03(A) – Seeding, and 641.03(B) - Planting Period. Install nonvegetative controls including mulch or rolled erosion control products while the vegetation is being established. Water and fertilize grass. Apply fertilizer as recommended by the manufacturer. Replace grass the Engineer considers unsuitable or sick. Remove and dispose of trash and debris. Remove invasive species. Mow as needed to prevent site or signage obstructions, fire hazard, or nuisance to the public. Do not remove down stream sediment control measures until the vegetation is uniformly established, including no large bare areas, and provides 70 percent of the density of pre-disturbance vegetation. Temporary vegetative stabilization shall not be used longer than one year.
- **(D) Silt Fences.** Comply with ASTM D6462, Standard Practice for Silt Fence Installation.

Alternative materials or methods to control, prevent, remove and dispose pollution are allowable if acceptable to the Engineer.

209.03 Construction.

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(A) Preconstruction Requirements.

(1) Water Pollution, Dust, and Erosion Control Meeting. Schedule a water pollution, dust, and erosion control meeting with the Engineer after Site-Specific BMP is accepted in writing by the Engineer. Meeting shall be scheduled a minimum of 7 calendar days prior to the issuance of Notice to Proceed. Discuss sequence of work, plans and proposals for water pollution, dust, and erosion control.

90	(2) Water Pollution, Dust, and Erosion Control Submittals
91	Submit a Site-Specific BMP Plan within 21 calendar days of date of
92	award. Submission of complete and acceptable Site-Specific BMP Plar
93	is the sole responsibility of the Contractor and additional contract time
94	will not be issued for delays due to incompleteness. Include the
95	following:
96	9 -
97	(a) Written description of activities to minimize water pollution
98	and soil erosion into State waters, drainage or sewer systems
99	BMP shall include the following:
100	g .
101	1. An identification of potential pollutants and their
102	sources.
103	30d1000.
104	2. A list of all materials and heavy equipment to be
105	used during construction.
106	used duffing constitution.
107	3. Descriptions of the methods and devices used to
107	minimize the discharge of pollutants into State waters
108	drainage or sewer systems.
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	4. Details of the procedures used for the
111	· · · · · · · · · · · · · · · · · · ·
112	maintenance and subsequent removal of any erosion of
113	siltation control devices.
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115	5. Methods of removing and disposing hazardous
116	wastes encountered or generated during construction.
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118	6. Methods of removing and disposing concrete and
119	asphalt pavement cutting slurry, concrete curing water
120	and hydrodemolition water.
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122	7. Spill Control and Prevention and Emergency Spil
123	Response Plan.
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125	8. Fugitive dust control, including dust from grinding
126	sweeping, or brooming off operations or combination
127	thereof.
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129	Methods of storing and handling of oils, paints and
130	other products used for the project.
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132	10. Material storage and handling areas, and other
133	staging areas.
134	
135	11. Concrete truck washouts.

136		12.	Concrete waste control.
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138		13.	Fueling and maintenance of vehicles and other
139		equip	ment.
140			
141		14.	Tracking of sediment offsite from project entries
142		and e	exits.
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144		15.	Litter management.
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146		16.	Toilet facilities.
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148		17.	Other factors that may cause water pollution, dust
149		and e	erosion control.
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151	(b)	Provi	de plans indicating location of water pollution, dust
152	` '		control devices; provide plans and details of BMPs
153			ed or utilized; show areas of soil disturbance in cut
154			ate areas used for construction staging and storage
155			ms (1) through (17) above, storage of aggregate
156		_	e of aggregate), asphalt cold mix, soil or solid waste,
157	•		and vehicle parking, and show areas where
158			ractices are to be implemented. Indicate intended
159	_		•
		•	attern on plans. Include flow arrows. Include
160	•		awing for each phase of construction that alters
161		•	tterns. Indicate approximate date when device will
162	be in	stalled	and removed.
163		•	
164	(c)	Cons	truction schedule.
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166	(d)		e(s) of specific individual(s) designated responsible
167		•	lution, dust, and erosion controls on the project site.
168			ne, cellular, and business telephone numbers, fax
169	numb	bers, ar	nd e-mail addresses.
170			
171	(e)	Desc	ription of fill material to be used.
172			
173	(f)	For p	projects with an NPDES Permit for Construction
174	Àctiv	ities, su	bmit information to address all sections in the Storm
175	Wate	r Pollut	ion Prevention Plan (SWPPP).
176			,
177	(g)	For p	rojects with an NPDES Permit, information required
178		•	nce with the conditions of the Notice of General
179		•	erage (NGPC)/NPDES Permit.
180	. 5111	5540	(5) 525 . 5
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(h) Site-Specific BMP Review Checklist. The checklist may be downloaded from HDOT's Stormwater Management website at http://stormwaterhawaii.com.

Date and sign Site-Specific BMP Plan. Keep accepted copy on site or at an accessible location so that it can be made available at the time of an on-site inspection or upon request by the Engineer, HDOT Third-Party Inspector, and/or DOH/EPA Representative. Amendments to the Site-Specific BMP Plan shall be included with original Site-Specific BMP Plan. Modify SWPPP if necessary to conform to revisions. Include date of installation and removal of Site-Specific BMP measures. Obtain written acceptance by the Engineer before implementing revised Site-Specific BMPs in the field.

Follow the guidelines in the current HDOT "Construction Best Management Practices Field Manual", in developing, installing, and maintaining Site-Specific BMPs for all projects. 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, notify the Engineer immediately for interpretation. For the purposes of clarification "applicable bid documents" include the construction plans, standard specifications, special provisions, Permits, and the SWPPP when applicable.

Follow Honolulu's City and County "Rules for Soil Erosion Standards and Guidelines" for all projects on Oahu. Use respective Soil Erosion Guidelines for Maui, Kauai and Hawaii projects.

(B) Construction Requirements. Do not begin work until submittals detailed in Subsection 209.03(A)(2) - Water Pollution, Dust, and Erosion Control Submittals are completed and accepted in writing by the Engineer.

Install, maintain, monitor, repair and replace site-specific BMP measures, such as for water pollution, dust and erosion control; installation, monitoring, and operation of hydrotesting activities; removal and disposal of hazardous waste indicated on plans, concrete cutting slurry, concrete curing water; or hydrodemolition water. Site-Specific BMP measures shall be in place, functional and accepted by HDOT personnel prior to initiating any

ground disturbing activities.

If necessary, furnish and install rain gage in a secure location prior to field work including installation of site-specific BMP. Provide rain gage with a tolerance of at least 0.05 inches of rainfall. Install rain gage on project site in an area that will not deter rainfall from entering the gate opening. Do not install in a location where rain water may splash into rain gage. The rain gage installation shall be stable and plumbed. Maintain rain gage and replace rain gage that is stolen, does not function properly or accurately, is worn out, or needs to be relocated. Do not begin field work until rain gage is installed and Site-Specific BMPs are in place. Rain gage data logs shall be readily available. Submit rain gage data logs weekly to the Engineer.

Address all comments received from the Engineer.

Modify and resubmit plans and construction schedules to correct conditions that develop during construction which were unforeseen during the design and pre-construction stages.

Coordinate temporary control provisions with permanent control features throughout the construction and post-construction period.

Limit maximum surface area of earth material exposed at any time to 300,000 square feet. Do not expose or disturb surface area of earth material (including clearing and grubbing) until BMP measures are installed and accepted in writing by the Engineer. Protect temporarily or permanently disturbed soil surface from rainfall impact, runoff and wind before end of the work day.

Immediately initiate stabilizing exposed soil areas upon completion of earth disturbing activities for areas permanently or temporarily ceased on any portion of the site. Earth-disturbing activities have permanently ceased when clearing and excavation within any area of the construction site that will not include permanent structures has been completed. Earth-disturbing activities have temporarily ceased when clearing, grading, and excavation within any area of the site that will not include permanent structures will not resume for a period of 14 or more calendar days, but such activities will resume in the future. The term "immediately" is used in this section to define the deadline for initiating stabilization measures. "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.

For projects with an NPDES Permit for Construction activities:

(1) For construction areas discharging into waters not impaired for nutrients or sediments, complete initial stabilization within 14 calendar days after the temporary or permanent cessation of earth-disturbing activities.

271	(2) For construction areas discharging into nutrient or sediment
272	impaired waters, complete initial stabilization within 7 calendar days
273	after the temporary or permanent cessation of earth-disturbing
274	activities.
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276	For projects without an NPDES Permit for Construction activities,
277	complete initial stabilization within 14 calendar days after the temporary or
278	permanent cessation of earth-disturbing activities.
279	pormanent coodation of cartif distarbing detivities.
280	Any of the following types of activities constitutes initiation of
281	stabilization:
282	Stabilization.
	(4) Propping the soil for vegetative or non-vegetative stabilizations
283	(1) Prepping the soil for vegetative or non-vegetative stabilization;
284	(O) Anni bina mandala an athan man an an atatina man duat ta tha anni and
285	(2) Applying mulch or other non-vegetative product to the exposed
286	area;
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288	(3) Seeding or planting the exposed area;
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290	(4) Starting any of the activities in items $(1) - (3)$ above on a portion
291	of the area to be stabilized, but not on the entire area; and
292	
293	(5) Finalizing arrangements to have stabilization product fully
294	installed in compliance with the deadline for completing initial
295	stabilization activities.
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297	Any of the following types of activities constitutes completion of initial
298	stabilization activities:
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300	(1) For vegetative stabilization, all activities necessary to initially
301	seed or plant the area to be stabilized; and/or
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303	(2) For non-vegetative stabilization, the installation or application of
304	all such non-vegetative measures.
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306	If the Contractor is unable to meet the deadlines above due to
307	circumstances beyond the Contractor's control, and the Contractor is using
308	vegetative cover for temporary or permanent stabilization, the Contractor may
309	comply with the following stabilization deadlines instead as agreed to by the
310	Engineer:
311	Engineer.
312	(1) Immediately initiate, and complete within the timeframe shown
313	above, the installation of temporary non-vegetative stabilization
314	measures to prevent erosion;
315	

316	(2) Complete all soil conditioning, seeding, watering or irrigation
317	installation, mulching, and other required activities related to the
318	planting and initial establishment of vegetation as soon as conditions or
319	circumstances allow it on the site; and
320	on carriote and with the one, and
321	(3) Notify and provide documentation to the Engineer the
322	circumstances that prevent the Contractor from meeting the deadlines
323	above for stabilization and the schedule the Contractor will follow for
324	initiating and completing initial stabilization and as agreed to by the
325	Engineer.
326	Engineer.
327	Follow the applicable requirements of the specifications and special
328	provisions including Section 619 Planting and Section 641 Hydro-Mulch
329	Seeding.
330	occurig.
331	Immediately after seeding or planting the area to be vegetatively
332	stabilized, to the extent necessary to prevent erosion on the seeded or planted
333	area, select, design, and install non-vegetative erosion controls that provide
334	cover (e.g., mulch, rolled erosion control products) to the area while vegetation
335	is becoming established.
336	is becoming established.
337	Protect exposed or disturbed surface area with mulches, grass seeds or
338	hydromulch. Spray mulches at a rate of 2,000 pounds per acre. Add tackifier
339	to mix at a rate of 85 pounds per acre. Apply grass seeds at a rate of 125
340	pounds per acre. For hydromulch, use the ingredients and rates required for
341	mulches and grass seeds. Submit recommendations from a licensed
342	Landscape Architect when deviating from the application rates above.
343	Landscape Architect when deviating from the application rates above.
343 344	Apply fertilizer to mulches, grass seed or hydromulch per
345	manufacturer's recommendations. Submit recommendations from a licensed
345	Landscape Architect when deviating from the manufacturer's
347	recommendations.
348	recommendations.
348 349	Install valority discination measures when expering eradible surfaces
	Install velocity dissipation measures when exposing erodible surfaces
350	greater than 15 feet in height.
351	PMD manauros shall be in place and energtional at the and of work day
352	BMP measures shall be in place and operational at the end of work day
353	or as required by Section 209.03(B) Construction Requirements.
354	
355	Install and maintain either or both stabilized construction entrances and
356	wheel washes to minimize tracking of dirt and mud onto roadways. Restrict
357	traffic to stabilized construction areas only. Clean dirt, mud, or other material
358	tracked onto the road, sidewalk, or other paved area by the end of the same
359	day in which the track-out occurs. Modify stabilized construction entrances to

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necessary.

prevent mud from being tracked onto road. Stabilize entire access roads if

362 363			nay be used as soil stabilizers for either or both erosion and		
	dust control	lust control if acceptable to the Engineer.			
364	Drov	ida tam	norany along drains of rigid or flevible conduits to corre		
365			porary slope drains of rigid or flexible conduits to carry		
366			d embankments. Provide portable flume at the entrance.		
367	Snorten or	extena t	emporary slope drains to ensure proper function.		
368	5 (
369			es, channels, and other drainageways leading away from		
370	cuts and fill	s at all t	imes by either:		
371					
372	(1)	-	o-mulching the lower region of embankments in the		
373	imme	ediate a	rea.		
374					
375	(2)	Instal	ling check dams and siltation control devices.		
376					
377	(3)	Other	methods acceptable to the Engineer.		
378					
379	Prov	ide for	controlled discharge of waters impounded, directed, or		
380	controlled b	y projed	ct activities or erosion control measures.		
381					
382	Cove	er expos	ed surface of materials completely with tarpaulin or similar		
383	device whe	n transp	orting aggregate, soil, excavated material or material that		
384	may be sou				
385	,		·		
386	Clea	nup an	d remove any pollutant that can be attributed to the		
387	Contractor.	•			
388					
389	Insta	ll or mo	odify Site-Specific BMP measures due to change in the		
390			s and methods, or for omitted condition that should have		
391			the accepted Site-Specific BMP or a Site-Specific BMP that		
392			ed Site-Specific BMP that is not satisfactorily performing.		
393	•	•	e-Specific BMP measures shall be accepted in writing by		
394			to implementation.		
395	the Engine	or prior t	o implementation.		
396	Pron	erly ma	intain all Site-Specific BMP measures.		
397	Пор	City illa	intain all otte-opeoine bivir measures.		
398	For r	rojecte	with an NPDES Permit for Construction Activities:		
399	1 01 1	Jojecis	with all Ni DEST entit for Constituction Activities.		
400	(1)	For c	onstruction areas discharging into nutrient or sediment		
400	` '		ters, inspect, prepare a written report, and make repairs to		
	•				
402	DIVIP	measu	res at the following intervals:		
403		(-)	Mookly		
404		(a)	Weekly.		
405		/L-\	Within O4 hours of any mainful of OOF inch		
406		(b)	Within 24 hours of any rainfall of 0.25 inch or greater		
407		which	occurs in a 24-hour period.		

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(c) When existing erosion control measures are damaged or not operating properly as required by Site-Specific BMP.

- (2) For construction areas discharging to waters not impaired for nutrients or sediments, inspect, prepare a written report, and make repairs to BMP measures at the following intervals:
 - (a) Weekly.
 - **(b)** When existing erosion control measures are damaged or not operating properly as required by Site-Specific BMP.

For projects without an NPDES Permit for Construction activities, inspect, prepare a written report, and make repairs to BMP measures at the following intervals:

- (a) Weekly.
- **(b)** When existing erosion control measures are damaged or not operating properly as required by Site-Specific BMP.

Temporarily remove, replace or relocate any Site-Specific BMP that must be removed, replaced or relocated due to potential or actual flooding, or potential danger or damage to project or public.

Maintain records of inspections of Site-Specific BMP work. Keep continuous records for duration of the project. Submit copy of Inspection Report to the Engineer within 24 hours after each inspection.

The Contractor's designated representative specified in Subsection 209.03(A)(2)(d) shall address any Site-Specific BMP deficiencies brought up by the Engineer immediately, including weekends and holidays, and complete work to fix the deficiencies 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. Address any Site-Specific BMP deficiencies brought up by the State's Third-Party Inspector in the timeframe above or as specified in the Consent Decree or MS4 NPDES Permit, whichever is more stringent. The Consent Decree timeframe requirement applies statewide. The MS4 NPDES Permit only applies to Oahu. 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, complete installation or repair no later than

seven calendar days from the time of notification/Contractor discovery. Notify the Engineer and document why it is infeasible to complete the installation or repair within seven calendar days and complete the work as soon as practicable and as agreed to by the Engineer. Address Site-Specific BMP deficiencies discovered by the Contractor within the timeframe above. The Contractor's failure to satisfactorily address these Site-Specific BMP deficiencies, the Engineer reserves the right to employ outside assistance or use the Engineer's own labor forces to provide necessary corrective measures. The Engineer will charge the Contractor such incurred costs plus any associated project engineering costs. The Engineer will make appropriate deductions from the Contractor's monthly progress estimate. Failure to apply Site-Specific BMP measures may result in one or more of the following: assessment of liquidated damages, suspension, or cancellation of Contract with the Contractor being fully responsible for all additional costs incurred by the State.

(C) Discharges of Storm Water Associated with Construction Activities. If work includes disturbance of one acre or more, an NPDES Permit authorizing Discharges of Storm Water Associated with Construction Activity (CWB-NOI Form C) or Individual Permit authorizing storm water discharges associated with construction activity is required from the Department of Health Clean Water Branch (DOH-CWB).

Do not begin construction activities until all required conditions of the permit are met and submittals detailed in Subsection 209.03(A)(2) – Water Pollution, Dust, and Erosion Control Submittals are completed and accepted in writing by the Engineer.

(D) Discharges Associated with Hydrotesting Activities. If hydrotesting activities require effluent discharge into State waters or drainage systems, an NPDES Hydrotesting Waters Permit (CWB-NOI Form F) or Individual Permit authorizing discharges associated with hydrotesting from DOH-CWB is required from the DOH-CWB.

Do not begin hydrotesting activities until the DOH-CWB has issued an Individual NPDES Permit or Notice of General Permit Coverage (NGPC). Conduct Hydrotesting operations in accordance with the conditions of the permit or NGPC.

(E) Discharges Associated with Dewatering Activities. If dewatering activities require effluent discharge into State waters or drainage systems, an NPDES Dewatering Permit (CWB-NOI Form G) or Individual Permit authorizing discharges associated with dewatering from DOH-CWB is required from the DOH-CWB.

499	Do not begin dewatering activities until the DOH-CWB	
500	Individual NPDES Permit or Notice of General Permit Cove	
501	Conduct dewatering operations in accordance with the cor	nditions of the
502	permit or NGPC.	
503		
504	(F) Solid Waste. Submit the Solid Waste Disclosure Form for	or Construction
505	Sites to the Engineer within 21 calendar days of date of award.	Provide a copy
506	of all the disposal receipts from the facility permitted by the	Department of
507	Health to receive solid waste to the Engineer monthly. Th	•
508	include documentation from any intermediary facility where	
509	handled or processed, or as directed by the Engineer.	
510		
511	(G) Construction BMP Training. The Contractor's	representative
512	responsible for development of the Site-Specific BMP Plan and i	
513	of Site-Specific BMPs in the field shall attend the State's Cor	•
514	Management Practices Training. The Contractor shall keep	
515	updated and readily available.	s training rege
516	apacita ana readily availables	
517	209.04 Measurement.	
518		
519	(A) Installation, maintenance, monitoring, and removal of Bl	MP will be paid
520	on a lump sum basis. Measurement for payment will not appl	
521	on a famp dam badie. Meadarement for payment will not appr	y .
522	(B) The Engineer will only measure additional water pollu	ition dust and
523	erosion control required and requested by the Engineer on a	
524	basis in accordance with Subsection 109.06 – Force Account	
525	Compensation.	To violotio and
526	Componedation.	
527	209.05 Payment. The Engineer will pay for accepted pay items	listed below at
528	contract price per pay unit, as shown in the proposal schedule. Payn	
529	compensation for work prescribed in this section and contract docum	
530	compensation for work presonated in this section and contract decair	iorito.
531	The Engineer will pay for each of the following pay items wh	en included in
532	proposal schedule:	cii iiiolaaca iii
533	proposal soriculie.	
534	Pay Item	Pay Unit
535	i dy item	r ay Omit
536	Environmental Pollution Control and Maintenance	Lump Sum
537	of Environmental Pollution Control; In Place Complete	Lamp Gam
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No progress payment will be authorized until the Engineer accepts in writing Site-Specific BMP or when the Contractor fails to maintain project site in accordance with accepted BMP.

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For all citations or fines received by the Department for non-compliance, including compliance with NPDES Permit conditions, the Contractor shall reimburse State within 30 calendar days for full amount of outstanding cost State has incurred, or the Engineer will deduct cost from progress payment.

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The Engineer will assess liquidated damages up to \$27,500 per day for non-compliance of each BMP requirement and all other requirements in this section.

Appendix A

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The following list identifies potential pollutant sources and corresponding BMPs used to mitigate the pollutants. Each BMP is referenced to the corresponding section of the current HDOT Construction Best Management Practices Field Manual or appropriate Supplemental Sheets. The Manual may be obtained from the HDOT Statewide Stormwater Management Program Website at http://www.stormwaterhawaii.com/resources/contractors-and-consultants/ under Construction Best Management Practices Field Manual. Supplemental BMP sheets are located at http://www.stormwaterhawaii.com/resources/contractors-and-consultants/storm-water-pollution-prevention-plan-swppp/ under Concrete Curing and Irrigation Water.

Pollutant	Appropriate Site-Specific BMP to be	ВМР
Source	Implemented	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. 	See Solid Waste Management Section SM-6. Protect Storm Drain Inlets SC-2, and Perimeter Sediment Controls where applicable.
Materials associated with the operation and maintenance of equipment, such as oil, fuel, and hydraulic fluid leakage	 Use off-site wash racks, repair and maintenance facilities, and fueling sites when practical. Designate bermed wash area if cleaning on site is necessary. 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. 	See Vehicle and Equipment Cleaning, Maintenance, and Refueling, Sections SM- 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	Appropriate Site-Specific BMP to be	ВМР
Source	Implemented	Requirements
	 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 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 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
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 4. EC-7 Vegetation SM-16). • Delineate, and clearly mark off, with flags, tape,
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. 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 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.

Pollutant	Appropriate Site-Specific BMP to be	ВМР
Source	Implemented	Requirements
		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
		Co dimo o rat
		Sediment
		Basins and
		Detention Ponds
		1. SC-15
		Sediment Trap
		2. SC-16
		Sediment
		Basin
		Dasiii
		SC-9 Check
		Dams
		SC-10 Level
		Spreader
		SM-19 Paving
		Operations
		EC-1
		Construction
		Road
		Stabilization

Pollutant	Appropriate Site-Specific BMP to be	ВМР
Source	Implemented	Requirements
		Controlling
		Storm Water
		Flowing onto
		and Through
		the Project
		1. EC-8
		Run-On
		Diversion
		2. SC-6
		Earth Dike
		3. SC-7
		Temporary
		Drains and
		Swales
		Post
		Construction
		<i>BMPs</i>
		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

Pollutant	Appropriate Site-Specific BMP to be	ВМР
Source	Implemented	Requirements
		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	Appropriate Site-Specific BMP to be Implemented	ВМР
Source		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. 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. 	See Material Delivery and Storage Section SM-2 and Material Use Section SM-3, Paving Operations Section SM- 19, Protect Storm Drain Inlets SC-2, and Perimeter Sediment Controls where applicable.

Pollutant	Appropriate Site-Specific BMP to be Implemented	BMP
Source		Requirements
Materials associated with painting, such as paint and paint wash solvent	 Hazardous chemicals shall be well-labeled and stored in original containers. Keep ample supply of cleanup materials on site. Dispose container only after all of the product has been used. Remove as much paint from brushes on painted surface. Rinse from water-based paints shall be discharged into the sanitary sewer system where possible. If not, direct all washwater into a leak-proof container or leak-proof pit. The container or pit must be designed so that no overflows can occur due to inadequate sizing or precipitation. 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. Do not dump liquid wastes into the storm drainage system. Filter and re-use solvents and thinners. Dispose of oil-based paints and residue as a hazardous waste. Ensure collection, removal, and disposal of hazardous waste complies with regulations. Immediately clean up spills and leaks Properly store and dispose waste materials generated from painting and structure repair and construction activities. Mix paints in a covered and contained area when possible to minimize adverse impacts from spills. Do not apply traffic paint or thermoplastic if rain is forecasted. See Material Delivery and Storage Section SM-2, Material Use SM-3, Waste Management, Hazardous Waste Management Section SM-9, Waste Management, Spill Prevention and Control Section SM-10, and Structure Construction and Painting Section SM-20 for additional requirements. Provide Storm Drain Inlet Protection and/or Perimeter Sediment Controls as applicable. 	See Material Delivery and Storage Section SM-2, Material Use Section SM-3, Hazardous Waste Management Section SM-9, Waste Management, Spill Prevention and Control Section SM-10, and Structure Construction and Painting Section SM-20, Protect Storm Drain Inlets SC-2, and Perimeter Sediment Controls where applicable.

Pollutant	Appropriate Site-Specific BMP to be Implemented	ВМР
Source		Requirements
Industrial	Hazardous chemicals shall be well-labeled and	See Material
chemicals,	stored in original containers.	Delivery and
fertilizers,	Keep ample supply of cleanup materials on site. Clean we spill improdict the union day clean we	Storage Section SM-2,
and/or	Clean up spills immediately, using dry clean-up methods where possible, and dispose of used.	Material Use
pesticides	methods where possible, and dispose of used materials properly.	Section SM-3,
	 Do not clean surfaces or spills by hosing the area 	and
	down.	Hazardous
	Eliminate the source of the spill to prevent a	Waste
	discharge or a furtherance of an ongoing discharge.	Management
	Dispose container only after all of the product has	Section SM-9,
	been used.	and Spill
	Retain a complete set of material safety data	Prevention
	sheets on site.	and Control
	Store industrial chemicals in water-tight	SM-10
	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 hefore a rain event.	
	before a rain event.	
	 Do not apply to stormwater conveyance channels with flowing water. 	
	Comply with fertilizer and pesticide	
	manufacturer's recommended usage instructions.	
	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.	

Pollutant	Appropriate Site-Specific BMP to be Implemented	ВМР
Source		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 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. See Hazardous Waste Management Section SM-9 and Vehicle and Equipment Management, Vehicle and Equipment Maintenance SM-12 for additional requirements. 	See Hazardous Waste Management Section SM-9 and Vehicle and Equipment Maintenance SM-12

Pollutant	Appropriate Site-Specific BMP to be	BMP
Source	Implemented	Requirements See Solid
Metals and	 Inspect construction waste and recycling areas regularly. 	Waste
Building	Schedule solid waste collection regularly.	Management
Materials	If building materials or metals are stored on site	Section SM-6
	(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.	
Contaminated	See Waste Management, Contaminated Soil	See Waste
Soil	Management Section SM-8 and/or Hazardous	Management,
	Waste Management Section SM-9 for additional	Contaminated
	requirements.	Soil
	At minimum contain contaminated material soil	Management Section SM-8
	by surrounding with impermeable lined berms or cover exposed contaminated material with plastic	and/or
	sheets.	Hazardous
		Waste
		Management
		Section SM-9
Dust Control	Do not over spray water for dust control	See Dust
Water	purposes which will result in runoff from the area.	Control Section SM-18
	Apply water as conditions require. Moshing down of dobring or dirt into drainings.	3101-10
	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.	
Concrete	Disposal of concrete truck wash water via	See Waste
Truck Wash	percolation is prohibited.	Management,
Water	Wash concrete-coated vehicles or equipment	Concrete Waste
	off-site or in the designated wash area.	Management Section SM-5
	Locate on-site wash area a minimum of 50 feet away or as far as practicable from storm drain	3 6 6601 3141-3
	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.	

Pollutant	Appropriate Site-Specific BMP to be	ВМР
Source	Implemented	Requirements
	 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. 	
Sediment	Include Stabilized Construction Entrance at all	See Stabilized
Track-Out	 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. 	Construction Entrance Section EC-2
	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 which remove sediment prior to exit when minimum dimensions can not be met. See Stabilized Construction Entrance Section EC-2 for additional requirements. 	

Pollutant Source	Appropriate Site-Specific BMP to be Implemented	BMP Requirements
Irrigation Water	 Consider irrigation requirements. Where possible, avoid species 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 at http://www.stormwaterhawaii.com/resources/contractors-and-consultants/storm-water-pollution-prevention-plan-swppp/ under Irrigation Water for additional requirements. 	See Seeding and Planting Section EC-5 and California Stormwater BMP Handbook SD-12 Efficient Irrigation
Hydrotesting Effluent	If work includes removing, relocation or installing waterlines, and Contractor elects to flush waterline or discharge hydrotesting effluent into State waters or drainage systems, the Contractor shall prepare and obtain HDOT acceptance of a NOI/NPDES Permit Form F application for HDOT submittal to DOH CWB at least 30 calendar days prior to the start of Hydrotesting Activities if necessary. Site-Specific BMPs will be included in the NOI/NPDES Permit Form F submittal.	Site-Specific BMPs will be included in the NOI/NPDES Permit Form F submittal.
Dewatering Effluent	• If excavation or backfilling operations require dewatering, and Contractor elects to discharge dewatering effluent into State waters or existing drainage systems, Contractor shall prepare and obtain HDOT acceptance of a NOI/NPDES Permit Form G application for HDOT submittal to DOH CWB at least 30 calendar days prior to the start of Dewatering Activities if necessary. See Site Planning and General Practices, Dewatering Operations Section SM-17 for additional requirements.	See Dewatering Operations SM- 17. Site- Specific BMPs will be included in the NOI/NPDES Permit Form G submittal.

Pollutant	Appropriate Site-Specific BMP to be	ВМР
Source	Implemented	Requirements
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 at http://www.stormwaterhawaii.com/resources/ contractors-and-consultants/storm-water-pollution-prevention-plan-swppp/ under Concrete Curing for additional requirements. 	See California Stormwater BMP Handbook NS- 12 Concrete Curing
Plaster Waste Water	 Direct all washwater into a leak-proof container or leak-proof pit. The container or pit must be designed so that no overflows can occur due to inadequate sizing or precipitation. 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. Any significant residual materials remaining on the ground after the completion of construction shall be removed and properly disposed. If the residual materials contaminate the soil, then the contaminated soil shall also be removed and properly disposed of. Plaster waste water shall not be allowed to flow into drainage structures or State waters. See Material Delivery and Storage Section SM-2, Material Use SM-3, and Hazardous Waste Management Section SM-9 for additional requirements. 	See Material Delivery and Storage Section SM-2, Material Use Section SM-3, and Hazardous Waste Management Section SM-9

Pollutant	Appropriate Site-Specific BMP to be	ВМР
Source	Implemented	Requirements
Water-Jet	For Water-Jet Wash Water used to clean	See Vehicle
Wash Water	 vehicles, use off site wash racks or commercial washing facilities when practical. See Vehicle and Equipment Cleaning Section SM-11 for additional information. For Water-Jet Wash Water used to clean impervious surfaces, the runoff shall not be allowed to flow into drainage structures or State Waters. 	and Equipment Cleaning Section SM-11
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.

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END OF SECTION 209

46 47		law-Knox bituminous pavers shall be quipped with the Blaw-Knox Materials
48	N	lanagement Kit (MMK).
49 50	(2)	Sadaranida hituminaya mayara ahall ha thaaa
50 51	` ,	Sedarapids bituminous pavers shall be those nat were manufactured in 1989 or later.
52	u	lat were mandiactured in 1909 of later.
53	(3) B	arber-Green/Caterpillar bituminous pavers
54	· ,	hall be equipped with deflector plates as
55	ic	dentified in the December 2000 Service
56		lagazine entitled "New Asphalt Deflector Kit
57	{6	6630, 6631, 6640}".
58	Deitorato	4644 -6
59		the start of using the paver for placing plant actor shall submit for approval a full
60 61	•	vriting of the means and methodologies that
62	•	prevent bituminous paver segregation. Use of
63		not commence prior to receiving approval
64	from the Engin	• • • • • • • • • • • • • • • • • • • •
65	•	
66	The Cor	ntractor shall supply a Certificate of
67	Compliance the	at verifies that the approved means and
68		to prevent bituminous paver segregation have
69 	-	nted on all pavers used on the project and is
70		ordance with the manufacturer's
71 72	requirements."	
73 74	• • • • • • • • • • • • • • • • • • • •	1) HMA Pavement Courses One and a m lines 499 to 505 to read as follows:
75 76 77 78 79 80	Greater. Where H in the contract docum less than 92.0 pero maximum specific gra	nt Courses One and a Half Inches Thick Or IMA pavement compacted thickness indicated ents is 1-1/2 inches or greater, compact to not cent nor greater than 97.0 percent of the avity determined in accordance with AASHTO eletion of Supplemental Procedure for Mixtures
82 83	Containing Porous Ag	ggregate."
84 85 86	(VII) Amend Section 401.04 N follows:	leasurement, from lines 597 to 603 to read as
87	"401.04 Measurement.	
88 89 90 91	` '	asure asphalt concrete payment for the speed ce with the contract documents.

92	(VIII) Amend Section 401.05 Payment,	from lines 605 to 635, to read as
93	follows:	
94		
95	5 " 401.05 Payment. The Engineer w	ill pay for the accepted pay items
96	listed below at the contract price per pay unit,	as shown in the proposal schedule.
97	Payment will be full compensation for the wor	k prescribed in this section and the
98	contract documents.	
99		
00	The Engineer will pay for each of the fo	llowing pay items when included in
01	the proposal schedule:	
02		
03	Pay Item	Pay Unit
04		
05	Install New 5' x 12' Speed Hump;	Each
06	In Place Complete	
07		
08	Install New 6' x 12' Speed Hump;	Each
09	In Place Complete	
10		
11		
12		
13	END OF SE	CTION 401

03/15/2024

SECTION 629 - PAVEMENT MARKINGS

Make the following amendments to said Section:

(I) Amend Subsection 629.03(B) – Temporary Pavement Markings by revising the third paragraph from line 62 to 63 to read:

"Maintain and replace temporary pavement markings, flexible delineators, and barricades."

(II) Amend Table 629.03 – 1 – Temporary Pavement Markings to read as follows:

"TABLE 629.03-1 TEMPORARY PAVEMENT MARKINGS	
ТҮРЕ	PAVEMENT MARKINGS
Passing Permitted - Both Sides	Single 4-inch yellow stripe 5 feet in length spaced 20 feet on center with Type D markers spaced 40 feet on center and located on center of 5-foot length of stripe.
Passing Prohibited - Both Sides	Double solid 4-inch yellow stripes with Type D markers placed 20 feet on center on one of 4-inch yellow stripes selected by the Engineer.
Passing Permitted - One Side Only	Single continuous 4-inch yellow stripe with Type D markers placed on stripe 20 feet on center on no-passing side and single 4-inch yellow stripes 5 feet in length spaced 20 feet on center on passing side.
Lane Lines - Lane Changing Permitted	Single 4-inch yellow or white stripe 5 feet in length spaced 20 feet on center with Type C or Type D markers spaced 40 feet on center.
Lane Lines - Lane Changing Prohibited	Double solid 4-inch white stripes with Type C markers placed 20 feet on center on one of the 4-inch white stripes selected by the Engineer.
Crosswalk	Two 12-inch white transverse lines spaced 8 feet on center or as ordered by the Engineer.
Stop Line	Single 12-inch white transverse line.
Note: Paint may be used for temporary markings in areas where final paving is not complete."	

(III) Amend **629.04 – Measurement** by revising lines 292 to 294 to read as follows:

"629.04 Measurement.

(A) The Engineer will measure thermoplastic and preformed pavement marking tape per linear foot or per each in accordance with the contract documents. The longitudinal pavement markings will be measured per linear foot for the width specified in the contract and in the proposal.

The Contractor shall consider the work required for the removal of pavement markings incidental to the various contract items, except as provided in the proposal or elsewhere in the contract. If the contract stipulates that the Engineer will make payment for the removal of pavement markings, the Engineer will measure the removal of pavement markings.

(B) The Engineer will measure the painted stripes that are twelve (12) inches wide or less as a single stripe.

The Engineer will measure the longitudinal pavement markings by the linear foot or per each according to the contract."

(IV) Amend 629.05 – Payment by revising lines 296 to 330 to read as follows:

"629.05 Payment.

(A) The Engineer will pay for thermoplastic and preformed pavement marking tape at the contract price per linear foot or per each according to the contract, complete in place, including primers.

The contract unit price paid shall be full compensation for furnishing labors, materials, tools, equipment and incidentals and for doing the work involved in furnishing and installing pavement markings complete in place according to the contract.

The Engineer will not pay for the temporary pavement markings including flexible delineator posts with reflector markers or Type I Barricades and temporary signs installed for the longitudinal guidance of public traffic over reconstructed areas, cold planed surfaces, newly paved surfaces or other unmarked or scarified areas for payment if not shown in the proposal separately. The Engineer will consider them incidental to the various contract items.

If the contract specifies payment for temporary pavement markings installed as ordered by the Engineer for special temporary traffic patterns, the Engineer will pay from an allowance for "Temporary Construction Zone Markings".

66	The Engineer will compute the actual an	
67	for force account work according to Su	ubsection 109.06 - Force
68	Account Provisions and Compensation.	
69		
70	If the contact specifies payment for rem	
71	under unit price pay items, the Engineer	
72	quantities at the contract unit prices bid.	The prices shall be full
73	compensation for removing such items acco	ording to the contract.
74		
75	(B) The Engineer will pay for painted paver	nent striping at the contract
76	price per linear foot or per each according to	o the contract.
77		
78	The Engineer will pay for the following	pay items when included in
79	the proposal schedule:	
80		
81	Pay Item	Pay Unit
82		
83	4-Inch Double Yellow Pavement	Linear Foot
84	Markings; In Place Complete	
85		
86	12-Inch White Speed Hump	Linear Foot
87	Advance Warning Pavement	
88	Markings; In Place Complete	
89		
90	12-Inch White Speed Hump	Each
91	Pavement Markings; In Place	
92	Complete	
93		
94		
95		
96		
97		
98		
99	END OF SECTION 629	
100		

1 2 3	SECTION 631 – TRAFFIC CONTROL, REGULATORY, WARNI MISCELLANEOUS SIGNS	NG, AND
4	Make the following amendment to said Section:	
5 6 7	(I) Amend Section 631.04 – Measurement by replacing lines 67 to	69 to read:
8 9 10	"631.04 Measurement. The Engineer will measure regulate and miscellaneous signs as complete units of the type and design the proposal.	J .
12 13 14	The Engineer will not measure removal and disposal and storing of temporary signs that the Contractor will not incorporate for payment.	•
15 16 17	(II) Amend Section 631.05 – Payment by replacing lines 71 to 9 follows:	9 to read as
18 19 20 21 22 23	"631.05 Payment. The Engineer will pay for regulatory, was miscellaneous signs at the contract price per each for the type specified complete in place. Payment will be full compensation for and backfilling, furnishing and installing materials, furnishing equiples and incidentals necessary to complete the work.	and design or excavating
24 25 26 27	The Engineer will not pay for removing and disposing or storing and temporary signs that the Contractor will not incorporate. The consider them incidental to the various contract items.	
28 29	The Engineer will pay for the following pay items when incorposal schedule:	cluded in the
30 31 32	Pay Item	Pay Unit
33 34 35 36	Remove Exist. Speed Limit Sign on Exist. Street Light Standard; In Place Complete	Each
37 38 39	Remove Exist. Speed Limit Sign and Exist. Post; In Place Complete	Each
40 41 42 43 44 45 46 47	Remove Exist. Speed Limit Sign on Exist. Street Light Standard and Install New Speed Hump Sign and 15 MPH Advisory Speed Plaque on Exist. Street Light Standard; In Place Complete	Each

48	Install New Speed Hump Sign	Each
49	on New Post; In Place Complete	
50		
51	Install New Speed Hump Sign and 15	Each
52	MPH Advisory Speed Plaque on New	
53	Post; In Place Complete	
54		
55		
56		
57		
58		
59	END OF SECTION	N 631

1	SECTION 699 - MOBILIZATION
2 3 4	Make the following amendments to said Section:
5 6 7	(I) Amend 699.03 Applicability by revising from lines 21 to 24 to read as follows:
8 9 10	"699.03 Applicability. Maximum bid allowed for this item is an amount not to exceed 6 percent of the sum of all items excluding the bid price of this item."
11	(II) Amend 699.05 Payment by revising from lines 44 to 47 to read as follows:
13 14 15	"Mobilization (Not to exceed 6 percent of the sum of all items excluding the bid price of this item) Lump Sum"
16 17	
18 19	
20	END OF SECTION 699