**GENERAL CONSTRUCTION NOTES FOR DLNR PROJECTS**; version 22.09.12 *(delete items that do not apply to the project) Note to editor: light blue items are intended for editing per project requirements.*

1. ALL APPLICABLE CONSTRUCTION WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST REVISION OF THE STATE OF HAWAII, DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", DATED 2005; THE COUNTY OF *(INSERT COUNTY)* DEPARTMENT OF PUBLIC WORKS "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION", DATED *(INSERT APPLICABLE DATE)* AND "STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION", DATED *(INSERT APPLICABLE DATE)* WHERE APPLICABLE AND THE APPLICABLE STATE BUILDING CODES AS ADOPTED BY THE STATE BUILDING CODE COUNCIL.
2. EXISTING TOPOGRAPHIC SURVEY WAS CONDUCTED ON *(INSERT DATE OF CERTIFIED SURVEY)* BY *(INSERT SURVEY COMPANY’S NAME)*. THIS TOPOGRAPHIC SURVEY WAS BASED ON THE BEST AVAILABLE INFORMATION AND ACCURACY MUST BE VERIFIED PRIOR TO STARTING CONSTRUCTION.
3. VERIFY AND CHECK ALL DIMENSIONS AND DETAILS SHOWN ON THE DRAWINGS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCY SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER FOR DIRECTION.
4. DURING THE PERFORMANCE PERIOD OF THIS CONTRACT, THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE CONTROL AND RESPONSIBILITY OF THE JOBSITE. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE SITE SAFETY CONDITIONS FOR ALL PERSONS ENTERING THE JOBSITE, THE CONDITION OF THE SITE AND ALL EXISTING IMPROVEMENTS, AND FOR ALL MATERIAL AND EQUIPMENT STORED AT THE PROJECT SITE.
5. *(OPTIONAL AS VERIFIED AND PER SITE CONDITION REQUIREMENTS) HARD BOULDERS AND MEDIUM HARD TO HARD BASALT ROCK MAY BE ENCOUNTERED NEAR OR AT THE SITE. APPROPRIATE EQUIPMENT FOR EXCAVATING THE MEDIUM HARD TO HARD BASALT ROCK SHALL BE REQUIRED.*
6. BLASTING IS NOT ALLOWED.
7. IN THE EVENT HISTORIC REMAINS, SUCH AS ARTIFACTS, BURIALS, OR CONCENTRATIONS OF SHELL OR CHARCOAL ARE ENCOUNTERED DURING CONSTRUCTION ACTIVITIES, WORK SHALL IMMEDIATELY CEASE IN THE VICINITY OF THE ENCOUNTER. NOTIFY THE STATE HISTORIC PRESERVATION DIVISION AT (808) 692-8015, FOR AN ASSESSMENT OF THE ENCOUNTER AND RECOMMENDATIONS ON MITIGATION MEASURES.
8. CONSTRUCT TEMPORARY BARRICADES DURING CONSTRUCTION, FOR SAFETY AND THE PROTECTION OF LIFE AND PROPERTY**.**
9. THE *(NAME OF FACILITY)* SHALL REMAIN OPEN DURING THE CONSTRUCTION PERIOD. PROVIDE TEMPORARY BARRICADES AND WARNING SIGNS FOR THE SAFETY AND PROTECTION OF THE PUBLIC AND MAINTAIN SAFE PEDESTRIAN AND VEHICLE ACCESS TO THE FACILITY AS REQUIRED. PROVIDE AND MAINTAIN ALL NECESSARY SIGNS AND PROTECTIVE FACILITIES AND TAKE NECESSARY PRECAUTIONS FOR THE PROTECTION, CONVENIENCE AND SAFETY OF THE PUBLIC.
10. EXISTING PEDESTRIAN WALKWAYS SHALL BE MAINTAINED IN A PASSABLE CONDITION OR PROVIDE FOR ALTERNATE/TEMPORARY ACCESSIBLE PEDESTRIAN ACCESS ROUTES AND FACILITIES PER THE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN CHAPTER 2, ADAAG 201.3, AND ADAAG 206.1.
11. DO NOT PERFORM ANY CONSTRUCTION ACTIVITIES THAT CAUSE ROCKS, SOIL, OR DEBRIS IN ANY FORM TO FALL, SLIDE, OR FLOW ONTO ADJOINING PROPERTIES, STREETS, OR NATURAL WATER COURSES. FINES DUE TO VIOLATIONS AND ANY NECESSARY REMEDIAL ACTIONS SHALL BE BORNE BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE STATE.
12. AS APPLICABLE, COORDINATE CONSTRUCTION ACTIVITIES WITH ADJACENT CONSTRUCTION SITE(S). AVOID CAUSING ANY DELAYS OR HINDERANCE OF WORK OR PERFORMANCE TO THE ADJACENT CONSTRUCTION SITE(S).
13. THE UNDERGROUND PIPES, CABLES OR DUCTLINES KNOWN TO EXIST BY THE ENGINEER FROM HIS SEARCH OF RECORDS ARE INDICATED ON THE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATIONS AND DEPTHS OF THE FACILITIES AND EXERCISE PROPER CARE IN EXCAVATING IN THE AREA**.**
14. COORDINATE ALL SITE UTILITY WORK WITH “THE ONE CALL CENTER” AT (866) 423-7287 AT LEAST 5 WORKING DAYS PRIOR TO THE START OF EXCAVATION OR TRENCHING.
15. VERIFY AND COORDINATE THE ACTUAL LOCATION OF ALL SITE UTILITIES WITH THE RELATED AGENCIES AND UTILITY COMPANIES IN THE PROJECT AREA PRIOR TO EXCAVATING.
16. WHEN CONNECTING NEW UTILITIES TO EXISTING, EXPOSE THE EXISTING UTILITY LINES AT THE DENOTED CONNECTION POINT TO VERIFY CHARACTERISTICS PRIOR TO COMPLETING EXCAVATION FOR NEW UTILITIES.
17. VERIFY AND COORDINATE THE ACTUAL LOCATION OF ALL SITE UTILITIES WITH THE RELATED AGENCIES AND UTILITY COMPANIES IN THE PROJECT AREA PRIOR TO EXCAVATING.
18. IF WATER, SEWAGE OR ELECTRICAL SERVICES ARE PLANNED TO BE INTERRUPTED FOR MORE THAN 1 HOUR, PROVIDE FOR TEMPORARY WATER, SEWAGE**,** AND ELECTRICAL SERVICES DURING THE INTERRUPTION AT NO ADDITIONAL COST TO THE STATE.
19. MAKE ARRANGEMENTS FOR TEMPORARY CONSTRUCTION SITE UTILITIES SUCH AS ELECTRICITY, WATER, ETC. AT NO ADDITIONAL COST TO THE STATE.
20. ALL EXISTING UTILITIES, SHOWN ON THE PLANS OR UNCOVERED, SHALL BE PROTECTED AT ALL TIMES DURING CONSTRUCTION.
21. ANY DAMAGED UTILITIES, AS A RESULT OF CONTRACTOR OPERATIONS, SHALL BE IMMEDIATELY REPAIRED AT NO ADDITIONAL COST TO THE STATE.
22. ADJUST MANHOLE AND /OR VALVE BOX FRAMES AND COVERS AS REQUIRED BY THE UTILITY COMPANIES AND AGENCIES.
23. CONFORM WITH THE APPLICABLE PROVISIONS OF CHAPTER 54, WATER QUALITY STANDARDS, AND CHAPTER 55, WATER POLLUTION CONTROL, OF TITLE 11, HAWAII ADMINISTRATIVE RULES OF THE STATE DEPARTMENT OF HEALTH.
24. PLAN, CONSTRUCT AND UTILIZE ALL BEST MANAGEMENT PRACTICES (BMP) AS REQUIRED TO COMPLY WITH THE LAWS, STANDARDS, RULES, AND /OR POLICIES OF THE COUNTY, STATE, OR FEDERAL REGULATORY AGENCIES.
25. OBTAIN AND PAY FOR ALL REQUIRED PERMITS FROM THE APPROPRIATE GOVERNMENT AGENCIES.
26. IF REQUIRED, THE CONTRACTOR SHALL PROVIDE THE SERVICES OF AN ESCP (EROSION AND SEDIMENT CONTROL PLAN) COORDINATOR. THE DESIGNEE SHALL HOLD A CURRENT ESCP COORDINATOR CERTIFICATE FROM THE CITY’S DEPARTMENT OF PLANNING AND PERMITTING**.**
27. RESTORE ALL AREAS DISTURBED OR DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES, TO EQUAL OR BETTER CONDITION(S), INCLUDING BUT NOT LIMITED TO VEGETATION, PAVEMENTS, EMBANKMENTS, CURBS, SIGNS, LANDSCAPING, STRUCTURES, UTILITIES, WALKWAYS, FENCES, ETC. UNLESS SPECIFICALLY NOTED OTHERWISE
28. DO NOT START ANY GROUND DISTURBANCE UNTIL ALL REQUIREMENTS OF THE NPDES PERMIT, AS REQUIRED, ARE MET. FOR WORK ON COUNTY PROPERTY, PROVIDE A WRITTEN COPY OF THE NPDES PERMIT TO THE APPROPRIATE COUNTY OR STATE OR FEDERAL AGENCY PER THEIR REQUIREMENTS.*(REMOVE IF NOT APPLICABLE)*
29. PROVIDE THERMOPLASTIC TYPE PAVEMENT STRIPING.
30. PROVIDE THEFT-RESISTANT FASTENERS FOR ALL MOUNTING ACCESSORIES.
31. PROVIDE STAINLESS STEEL , THEFT-RESISTANT FASTENERS IN ALL PUBLICLY EXPOSED AREAS.
32. PROVIDE ALL INCIDENTAL AND NECESSARY MATERIALS AND LABOR TO COMPLETE THE PROJECT.
33. THE JOB SITE SHALL BE LEFT IN A SAFE AND SECURE CONDITION AT THE END OF EACH WORKDAY. CLEAN UP AND REMOVE ALL RUBBISH FROM THE JOB SITE ON A DAILY BASIS. MAINTAIN THE WORK AREA AND PREMISES IN A CLEAN ORDERLY CONDITION AT ALL TIMES.
34. PRIOR TO ACCEPTANCE OF THE PROJECT BY THE STATE, CLEAN UP AND REMOVE ALL RUBBISH AND DEBRIS FROM THE ENTIRE JOB SITE.

*ADDITIONAL NOTE IF SPECIAL INSPECTIONS ARE REQUIRED:*

1. SPECIAL INSPECTIONS ARE REQUIRED FOR THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SPECIAL INSPECTIONS BY HIRING AN INDEPENDENT THIRD PARTY TO PERFORM ALL INSPECTIONS AS REQUIRED BY THE BUILDING CODE AT THE APPROPRIATE TIME AT NO ADDITIONAL COST TO THE STATE. FREQUENCY OF INSPECTIONS IS DEFINED IN THE IBC, SECTION 1704 TABLES, AS AMENDED BY THE COUNTY. THE CONTRACTOR SHALL CORRECT DEFECTIVE WORK AT NO ADDITIONAL COST TO THE STATE AND PAY FOR RE-INSPECTION AS REQUIRED.

*ADDITIONAL NOTES FOR THE DIVISION OF BOATING AND RECREATION PROJECTS:*

1. DUE TO LIMITED SPACE AT THE JOB SITE, THE STATE RECOGNIZES THE NEED FOR A CONSTRUCTION STAGING AREA FOR TEMPORARY STORAGE OF CONSTRUCTION EQUIPMENT AND MATERIAL. LOCATIONS OF POSSIBLE EQUIPMENT AND MATERIALS STAGING AREAS ARE SHOWN ON THE *(INSERT PLAN OR MAP TITLE)* ON SHEET *(INSERT SHEET NUMBER)*. COORDINATE WITH THE HARBOR MASTER FOR USE OF THE STAGING AREAS(S) AT LEAST 30 DAYS PRIOR TO ANTICIPATED OCCUPANCY. THE STATE IS NOT OBLIGATED TO PROVIDE A STAGING AREAS AS SPACE AVAILABILITY AT THE HARBOR WILL CHANGE FROM TIME TO TIME. SUBMIT A STAGING AREA(S) USE REQUEST AS SOON AS POSSIBLE. THE HARBOR MASTER DETERMINES THE STAGING AREA’S CONDITIONS OF USE.

*ADDITIONAL DIVISION OF FORESTRY AND WILDLIFE (DOFAW) NOTES (VERIFY WITH DOFAW ON PROJECT APPLICABILITY):*

1. TAKE ALL MEASURES TO MINIMIZE DISTURBING OR DAMAGING EXISTING NATIVE PLANT SPECIES DURING CONSTRUCTION.
2. PRIOR TO ENTERING THE JOB SITE, ALL EQUIPMENT AND FOOTWEAR SHALL BE WASHED WITH POTABLE WATER TO PREVENT EXOTIC PLANTS AND SEEDS FROM BEING INTRODUCED TO THE JOB SITE/AREA.
3. HAWAIIAN HOARY BATS OR ʻŌPEʻAPEʻA (LASIURUS CINEREUS SEMOTUS) ARE KNOWN TO RESIDE IN THE VICINITY OF THE PROJECT AREA AND MAY ROOST IN NEARBY TREES. ANY SITE CLEARING SHOULD BE TIMED TO AVOID DISTURBING THE BAT’S BIRTHING AND PUP REARING SEASON (JUNE 1 THROUGH SEPTEMBER 15). IF THIS CANNOT BE AVOIDED, WOODY PLANTS GREATER THAN 15 FEET (4.6 METERS) IN HEIGHT SHOULD NOT BE DISTURBED, REMOVED, OR TRIMMED WITHOUT CONSULTING DOFAW AND STATE’S CONSTRUCTION REPRESENTATIVE. BARBED WIRE IS NOT ALLOWED DUE TO DOCUMENTED BAT MORTALITIES BY ENSNAREMENT.
4. NIGHT WORK REQUIRING OUTDOOR LIGHTING SHOULD BE AVOIDED DURING THE SEABIRD FLEDGING SEASON FROM SEPTEMBER 15 THROUGH DECEMBER 15. ARTIFICIAL LIGHTING DISORIENTS SEABIRDS RESULTING IN COLLISION WITH MANMADE ARTIFACTS OR CAUSE GROUNDING. PROVIDE FULLY SHIELDED LIGHTS FOR ANY REQUIRED NIGHT WORK.

*ADDITIONAL NOTES**RELATING HAWAII EXPERIMENTAL TROPICAL FOREST (H.E.T.F.) BIOSECURITY MEASURES (SUCH AS RAPID OHIA DEATH, (VERIFY WITH DOFAW ON APPLICABILITY)) WITH REFERENCE TO THE H.E.T.F. BIOSECURITY HANDOUT, (AVAILABLE FROM DOFAW) COMPLY WITH THE FOLLOWING PARAPHRASED INSTRUCTIONS TO PREVENT THE INTRODUCTION AND SPREAD OF HARMFUL ORGANISMS INCLUDING, BUT NOT LIMITED TO WEEDS, INSECTS, AND INFECTED PLANTS*

1. INSPECT AND CLEAN ALL EQUIPMENT, GEAR, AND VEHICLES (PERSONAL AND PROJECT) THAT ENTER OR EXIT THE JOB SITE.
2. ENSURE THAT ALL EQUIPMENT, GEAR, AND VEHICLES ARE FREE OF ANY PLANT, ANIMAL, OR EARTHEN MATERIALS PRIOR TO ENTERING THE JOB SITE**.** ALL EQUIPMENT, GEAR, AND VEHICLES SHALL BE INSPECTED AND CLEANED BEFORE ENTERING THE JOB SITE, AND BEFORE LEAVING ANY WEED INFECTED/CONTAMINATED AREA TO PREVENT TRACKING IN HARMFUL ORGANISMS (E.G.: WEEDS, INSECTS, PESTS) AND PREVENT SPREAD TO PRISTINE AND HEALTHY FOREST AREAS. EQUIPMENT TO INSPECT AND CLEAN INCLUDE BUT IS NOT LIMITED TO:
	1. VOLCANIC CINDER ONCLOTHES & FOOTWEAR (TREADS, LACES, BOOT TONGUES), SOCKS, PANT LEGS, POCKETS, JACKETS, RAIN GEAR (POCKETS AND CUFFS)
	2. ROACHES, ANTS AND OTHER PESTS ON EQUIPMENT & SUPPLIES-TOOLS, TOOL BAGS, BACKPACKS & BAGS (FOLDS, POCKETS, VELCRO), WOOD AND BUILDING MATERIALS, FENCING MATERIALS, BOTTOMS OF PLASTIC BUCKETS, CARDBOARD BOXES, OPEN FOOD AND WATER CONTAINERS, TENTS, HAMMOCKS, TARPS, HELICOPTER SLING NETS, CHAINSAW BLADES.
	3. VEHICLES - THE INSIDE OF THE VEHICLES SHOULD BE VACUUMED AND THE TRUCK BEDS SWEPT OUT REGULARLY, ESPECIALLY IF USED OFF-ROAD. CLEAN PLACES SUCH AS THE INSIDE LIP OF BUMPERS, SEATS, FLOORS, DASHBOARDS, DOOR JAMBS, TIRES (ESPECIALLY TIRE TREADS), AND THE UNDERCARRIAGE.
	4. HEAVY EQUIPMENT, TRUCKS, ALL TYPES OF EARTHMOVING CONSTRUCTION EQUIPMENT AND GENERAL CONSTRUCTION EQUIPMENT AND SUPPLIES.
	5. OTHER- ENSURE SOIL IS STERILE AND FREE OF INSECTS, WEEDS, AND PATHOGENS. ANYTHING SUSPICIOUS SHOULD NOT BE TAKEN ONTO THE JOB SITE.
3. ON A DAILY BASIS, PACK AND REMOVE ALL TRASH, INCLUDING ANY DISCARDED FOOD, FROM THE JOB SITE TO PREVENT NEGATIVELY AFFECTING THE FLORA AND FAUNA AT THE FIELD SITE. (\*DISCARDED FOOD MAY CONTAIN UNSEEN INSECTS, FUNGUS, BACTERIA, AND PARASITES; AND IS AN ATTRACTANT FOR INVASIVE INSECTS).
4. FOLLOW METHODS OF CLEANING SPECIFIED IN H.E.T.F. BIOSECURITY HANDOUT. SPECIFIED METHODS OF CLEANING INCLUDE:
	1. WATER & HOSE, BRUSH, TWEEZERS, CLEAN RAG, KNIFE EDGE, BLEACH RINSE AND/OR INSECTICIDE.
	2. CLEANING SHALL BE PERFORMED AWAY FROM THE FOREST IN A DOFAW DESIGNATED AREA WITH A NEARBY RECEPTACLE FOR DISPOSAL.
	3. LAUNDERING OF WASHABLE ITEMS SHALL BE PERFORMED AFTER EACH TRIP.
	4. IF ITEMS CANNOT BE CLEANED, THEY CANNOT BROUGHT INTO THE FOREST.
	5. IF CONTAMINATED SUPPLIES ARE DISCOVERED, THEY MUST BE IMMEDIATELY REMOVED AND PROPERLY DISPOSED, AWAY FROM THE H.E.T.F.
5. CLEAN AND DISINFECT EQUIPMENT PRIOR TO MOBILIZATION TO JOB SITE.
6. IN THE EVENT THAT INFECTED OHIA TREES ARE FOUND AT THE FIELD SITE, THE CONTRACTOR SHALL BE INFORMED AND AT THE DIRECTION OF DOFAW TAKE MEASURES TO PREVENT THE SPREAD OF THE CERATOCYSTIS INFECTION OF OHIA TREES.
	1. MEASURES INCLUDE AND ARE NOT LIMITED TO:
		1. CONTACTING *\_\_\_\_\_\_\_\_\_\_\_\_\_ (DOFAW CONTACT INFO)* REGARDING THE LOCATION OF THE INFECTED OHIA TREES AND INCLUDING DIGITAL PICTURES OF THE CROWN OF THE SUSPECTED INFECTED TREE AND PLACES ON THE WOOD WITH CHARACTERISTIC STAINING OF THE INFECTION.
		2. DO NOT TRANSPORT AFFECTED OHIA WOODS.
		3. FOLLOW THE REQUIRED H.E.T.F. BIOSECURITY MEASURES (AS NOTED IN THE ABOVE ITEMS 1-5)