**GENERAL CONSTRUCTION NOTES FOR DLNR PROJECTS**; version 21.10.21 *(delete items that do not apply to the project)*

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 BUILING 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 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. AT ALL TIMES DURING PERFORMANCE OF THIS CONTRACT, ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE SITE SAFETY CONDITIONS FOR ALL PERSONS AND PROPERTY.
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. NO BLASTING SHALL BE ALLOWED.
7. IN THE EVENT HISTORIC REMAINS, SUCH AS ARTIFACTS, BURIALS, CONCENTRATIONS OF SHELL OR CHARCOAL, BE ENCOUNTERED DURING CONSTRUCTION ACTIVITIES, WORK SHALL IMMEDIATELY CEASE IN THE IMMEDIATE VICINITY OF THE ENCOUNTER. IMMEDIATELY NOTIFY THE STATE HISTORIC PRESERVATION DIVISION AT (808) 692-8015, WHO WILL ASSESS THE ENCOUNTER AND RECOMMEND THE APPROPRIATE 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 TO SAFETY AND PROTECT THE PUBLIC DURING THE CONSTRUCTION PERIOD. PROVIDE AND MAINTAIN FOR SAFE PEDESTRIAN ACCESS AND VEHICLE ACCESS TO THE FACILITY THROUGHOUT THE CONSTRUCTION PERIOD, AS REQUIRED.
10. PROVIDE AND MAINTAIN ALL NECESSARY SIGNS, LIGHTS, FLARES, BARRICADES, MARKERS, CONES AND OTHER PROTECTIVE FACILITIES AND TAKE NECESSARY PRECAUTIONS FOR THE PROTECTION, CONVENIENCE AND SAFETY OF THE PUBLIC.
11. 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 AND ADAAG 201.3 AND ADAAG 206.1.
12. NO PERFORMAMCE OF ANY CONSTRUCTION ACTIVITIES THAT CAUSES FALLING ROCKS, SOIL OR DEBRIS IN ANY FORM TO FALL, SLIDE OR FLOW ONTO ADJOINING PROPERTIES, STREETS OR NATURAL WATER COURSES. ALL COSTS INCURRED FOR VIOLATIONS PAID AND SUBSEQUENT REMEDIAL ACTION UNDERTAKEN AT NO ADDITIONAL COST TO THE STATE.
13. COORDINATE CONSTRUCTION ACTIVITIES WITH ANY AND ALL ADJACENT OR RELATED CONTRUCTION ACTIVITES ON ANOTHER CONSTRUCTION SITE. AVOID DELAY OR HINDERANCE IN THE PERFORMANCE OF THEIR RESPECTIVE CONTRACTS.
14. 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. TAKE ALL REPONSIBILITY FOR ALL DAMAGES AND REPLACE OR REPAIR IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE AFFECTED UTILITY COMPANY AT NO ADDITIONAL COST TO THE STATE. TAKE ALL RESPONSIBILITY FOR PERSONAL INJURY RESULTING FROM CONTACT WITH EXISTING UTILITIES.
15. WHEREVER CONNECTING NEW UTILITIES TO EXISTING UTILITIES ARE REQIRED, EXPOSE THE EXISTING UTILITY LINES AT THE CONNECTION POINT, SHOWN ON PLANS, TO VERIFY THEIR USES, LOCATIONS AND DEPTHS PRIOR TO CONTINUED EXCAVATION FOR NEW LINES.
16. COORDINATE WITH ALL AGENCIES AND UTILITY COMPANIES TO VERIFY THE ACTUAL LOCATION OF ALL SITE UTILITIES IN THE PROJECT AREA PRIOR TO EXCAVATING.
17. NOTIFY AND COORINATE ALL SITE WORK WITH “THE ONE CALL CENTER” AT (866) 423-7287 AT LEAST 5 WORKING DAYS PRIOR TO THE START OF EXCAVATION OR TRENCHING.
18. IF WATER, SEWAGE OR ELECTRICAL SERVICES ARE PLANNED TO BE INTERRUPTED FORE 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 ENCOUNTERED, SHALL BE PROTECTED AT ALL TIMES DURING CONSTRUCTION AND ANY DAMAGED UTILITIES, AS RESULT OF CONTRCTOR OPERATIONS, SHALL BE IMMEDIATELY REPAIRED AT NO ADDITIONAL COST TO THE STATE.
21. ADJUST MANHOLE AND /OR VALVE BOX FRAMES AND COVERS AS REQUIRED BY THE UTILITY COMPANIES AND AGENCIES.
22. 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.
23. PLAN, CONSTRUCT AND UTILIZE ALL BEST MANAGMENT PRACTICES (BMP) AS REQUIRED TO COMPLY WITH THE LAWS, STANDARDS, RULES, AND /OR POLICIES OF THE COUNTY, STATE, OR FEDERAL REGULATORY AGENCIES.
24. OBTAIN AND PAY FOR ALL REQUIRED PERMITS FROM THE APPROPRIATE GOVERNMENT AGENCIES.
25. RESTORE ALL AREAS DISTRUBED AS A RESULT OF ALL 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 OTHERWISE NOTED OTHERWISE.
26. IF ONE (1) OR MORE ACRE OF LAND IS DISTURBED, DO NOT START ANY GROUND DISTRUBANCE UNTIL A NPDES PERMIT IS OBTAINED FROM THE DEPARTMENT OF HEALTH, STATE OF HAWAII, AND HAS SATISFIED ALL APPLICABLE REQUIREMENTS OF THE NPDES PERMIT PROGRAM. FOR WORK ON COUNTY PROPERTY, PROVIDE A WRITTEN COPY OF THE NPDES PERMIT TO THE APPROPRIATE COUNTY OR GOVERNMENTAL AGENCY PER THEIR REQUIREMENTS.
27. ALL PAVEMENT STRIPING SHALL BE A THERMOPLASTIC TYPE.
28. PROVIDE THEFT-RESISTANT FASTENERS FOR ALL MOUNTING ACCESSORIES. ALL FASTENERS SHALL BE STAINLESS STEEL WITH THEFT-RESISTANT TYPE HEADS OR NUTS.
29. PROVIDE ALL INCIDENTAL AND NECESSARY MATERIALS AND WORK TO COMPLETE THE PROJECT.
30. THE JOB SITE SHALL BE LEFT IN A SAFE AND SECURE CONDITION AT THE END OF EACH CONSTRUCTION WORKDAY. CLEAN UP AND REMOVE ALL RUBBISH. MAINTAIN THE WORK AREA AND PREMISES IN A CLEAN ORDERLY CONDITION AT ALL TIMES.
31. UPON COMPLETION OF CONSTRUCTION, THE ENTIRE JOB SITE SHALL BE CLEANED OF ALL RUBBISH AND DEBRIS.

*ADDITIONAL NOTE IF SPECIAL INSPECTION IS REQUIRED:*

1. SPECIAL INSPECTIONS ARE REQUIRED FOR THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SPECIAL INSPECTION 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 INSPECTION 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 BOATING 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)*. COORDIANTE 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 DOFAW NOTES (VERIFY WITH DOFAW ON APPLICABILITY):*

1. TAKE ALL MEASURES TO MINIMIZE DISTRUBING OR DAMAGING EXISING NAVTIVE 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) IS KNOWN TO RESIDE IN THE VICINITY OF THE PROJECT AREA AND MAY ROOST IN NEARBY TREES. IF ANY SITE CLEARING IS REQUIRED THIS 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 BECAUSE BAT MORTALITIES HAVE BEEN DOCUMENTED BY ENSNAREMENT DURING FLIGHT.
4. NIGHT WORK THAT REQUIRES OUTDOOR LIGHTING SHOULD BE AVOIDED DURING THE SEABIRD FLEDGING SEASON FROM SEPTEMBER 15 THROUGH DECEMBER 15. THIS IS THE PERIOD WHEN YOUNG SEABIRDS TAKE THEIR MAIDEN VOYAGE TO THE OPEN SEA. ARTIFICIAL LIGHTING CAN ADVERSELY IMPACT SEABIRDS BY CAUSING DISORIENTATION. THIS DISORIENTATION CAN RESULT IN COLLISION WITH MANMADE ARTIFACTS OR GROUNDING OF BIRDS. FOR NIGHT LIGHTING THAT MIGHT BE REQUIRED, DOFAW RECOMMENDS THAT ALL LIGHTS BE FULLY SHIELDED TO MINIMIZE IMPACTS.

*ADDITIONAL NOTED 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, (WHICH IS AVAILABLE FROM D.O.F.A.W. STAFF) 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 AND EXIT THE JOB SITE.
2. ENSURE THAT ALL GEAR EQUIPMENT AND VEHICLES ARE FREE OF ANY PLANT, ANIMAL, OR EARTHEN MATERIALS. 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. CINDER ARE CLOTHES & FOOTWEAR (TREADS, LACES, BOOT TONGUES), SOCKS, PANT LEGS, POCKETS, JACKETS, RAIN GEAR (POCKETS AND CUFFS)
   2. EQUIPMENT & SUPPLIES-TOOLS, TOOL BAGS, BACPACKS & BAGS (FOLDS, POCKETS, VELCRO), WOOD AND BUILDING MATERIALS, FENCING MATERIALS, BOTTOMS OF PLASTIC BUCKETS, CARDBOARD BOXES (ROACHES & ANTS), 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 AND 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 AN ARE NOT LIMITED TO:
      1. CONTACTING *\_\_\_\_\_\_\_\_\_\_\_\_\_ (DOFAW TO PROVIDE 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)