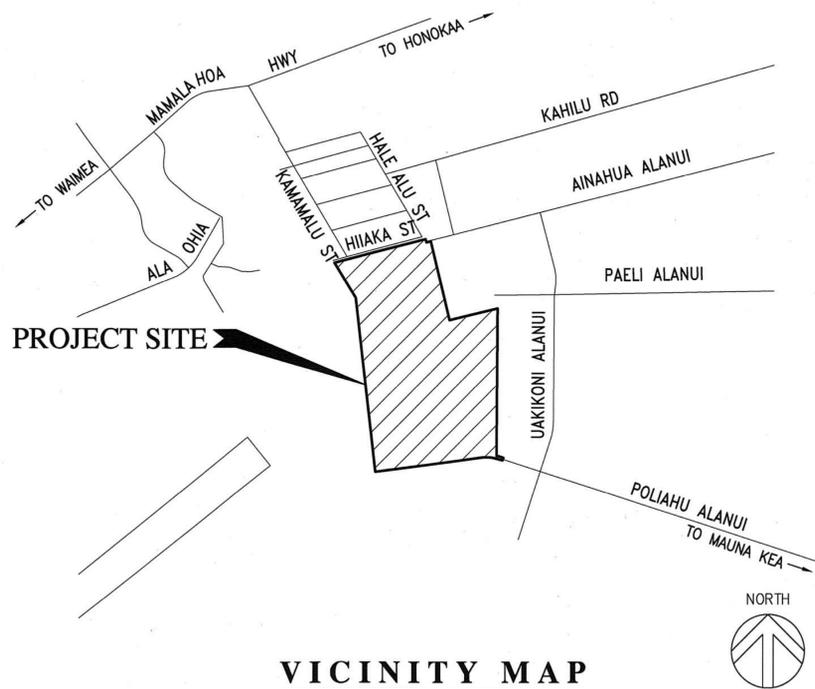


LOCATION MAP



VICINITY MAP

GRADING AND CONSTRUCTION PLANS
FOR

WAIMEA HOMESTEAD COMMUNITY AGRICULTURAL PARK

PU'UKAPU, WAIMEA, SOUTH KOHALA, HAWAII'I ISLAND

OWNER AND DEVELOPER: DEPARTMENT OF HAWAIIAN HOME LANDS
MANAGED BY: DEPARTMENT OF AGRICULTURE

PROJECT NO: DOAH18

TAX MAP KEY: (3) 6-4-038:011 (POR.)



SSFM INTERNATIONAL, INC.
99 Aupuni Street, Suite 202
Hilo, Hawaii 96720

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APPROVED

CHAIRMAN, HAWAIIAN HOMES COMMISSION DEPARTMENT OF HAWAIIAN HOME LANDS STATE OF HAWAII	DATE
<i>[Signature]</i> ADMINISTRATOR AND CHIEF ENGINEER AGRICULTURAL RESOURCE MANAGEMENT DIVISION	MAY 13 2016 DATE
DIRECTOR, DEPARTMENT OF PUBLIC WORKS COUNTY OF HAWAII	DATE
DIRECTOR, PLANNING DEPARTMENT COUNTY OF HAWAII	DATE

GENERAL CONSTRUCTION NOTES

- THE SCOPE OF WORK OF THIS PROJECT IS LIMITED TO PROVIDING NON-POTABLE IRRIGATION WATER TO THE COMMUNITY AGRICULTURAL PARK, WATER STORAGE TANKS, GRAVEL ROADS AND RELATED DRAINAGE. ADDITIVE ALTERNATE 1 INCLUDES THE GRAVEL ROAD FROM HIAKA STREET TO ROAD B INTERSECTION AND RELATED GRADING AND DRAINAGE IMPROVEMENTS. ADDITIVE ALTERNATES 2, 3 AND 4 INCLUDES MASS GRADING OF THE FUTURE COMMUNITY AGRICULTURAL PARK, DIVIDED AS SHOWN ON PLANS.
- EXISTING UTILITIES SHALL REMAIN IN SERVICE DURING CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF WORK WITHIN THE SCOPE, AND WORK DONE BY OTHERS.
- THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING VALVE BOXES, UTILITY MANHOLES, DRAINAGE GRATINGS, CENTERLINE MONUMENTS, ETC. AND SHALL HAVE THEM RAISED TO MEET THE NEW PAVEMENT GRADE.
- THE CONTRACTOR SHALL PROVIDE A SMOOTH-RIDING CONNECTION TO EXISTING STREETS, DRIVEWAYS AND AT TRENCHING LOCATIONS AS DIRECTED BY THE ENGINEER. PAYMENT SHALL BE INCIDENTAL TO ASPHALT CONCRETE PAVEMENT IF APPLICABLE.
- EXISTING PAVEMENT SHALL BE BROOMED OFF AND SHALL RECEIVE A TACK COAT OF 0.15 GALLON PER SQUARE YARD OF EMULSIFIED ASPHALT (SS-1) BEFORE PLACING AC PAVEMENT. THE COST OF THE TACK COAT SHALL BE INCIDENTAL TO THE AC PAVEMENT.
- THE CONTRACTOR, AT ITS OWN EXPENSE, SHALL KEEP THE PROJECT AND SURROUNDING AREAS FREE FROM DUST NUISANCES. THE WORK SHALL BE IN CONFORMANCE WITH THE AIR POLLUTION CONTROL RULES OF THE STATE DEPARTMENT OF HEALTH, HAR 11-60.1, FUGITIVE DUST.
- THE CONTRACTOR, AT ITS OWN EXPENSE, SHALL COORDINATE THE REFERENCING OF CENTERLINE MONUMENTS TO BE RECONSTRUCTED BY A SURVEYOR LICENSED TO PRACTICE IN THE STATE OF HAWAII. AFTER PAVING, THE SURVEYOR SHALL LOCATE THE MONUMENTS, AND AFTER RECONSTRUCTION OF THE MONUMENTS, THE SURVEYOR SHALL PUNCH THE CENTERLINE LOCATION ON THE BRASS PINS. THE SURVEYOR SHALL SUBMIT WRITTEN CERTIFICATION OF THE INSTALLATION AND LOCATION OF THE CENTERLINE MONUMENTS TO THE DPW.
- IN PERFORMING ALL WORK, THE CONTRACTOR SHALL EXERCISE DUE CARE AND CAUTION NECESSARY TO AVOID ANY DAMAGE TO AND IMPAIRMENT IN THE USE OF ANY EXISTING UTILITY LINE. ANY DAMAGE INFLICTED ON EXISTING UTILITY LINES RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE IMMEDIATELY REPAIRED OR RESTORED AS DIRECTED BY THE DPW AND/OR ENGINEER AND APPROVED BY THE UTILITY AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE DONE TO THE DWS EXISTING WATER SYSTEM, THE GAS COMPANY GAS LINES, HAWAIIAN TELCOM'S LINES, DUCTS, HELCO LINES, OR OTHER UTILITY LINES (UNDERGROUND OR OVERHEAD).
- THE CONTRACTOR AGREES THAT IT SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OR WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE STATE OR THE ENGINEER.
- THE CONTRACTOR SHALL TONE AND PROBE THE AREA PRIOR TO ALL EXCAVATION AND TRENCHING TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR THE REPAIR OR REPLACEMENT OF SAME IN THE EVENT OF DAMAGES DUE TO ITS CONSTRUCTION PRACTICES. WHENEVER CONNECTIONS OF NEW UTILITIES TO EXISTING UTILITIES ARE SHOWN ON THE PLANS, THE CONTRACTOR SHALL EXPOSE THE EXISTING LINES AT THE PROPOSED CONNECTIONS TO VERIFY THEIR LOCATIONS, DEPTHS AND ASSURE THAT CONNECTIONS CAN BE MADE PRIOR TO EXCAVATION FOR THE NEW LINES AT NO COST TO THE STATE. ANY NECESSARY ADJUSTMENTS FOR THE NEW LINES TO ENSURE PROPER CONNECTION TO THE EXISTING, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR IS ADVISED THAT THE DEPTH TO THE EXISTING WATER LATERALS, GAS LINES, HELCO/HTC/CABLE LINES AND OTHER UTILITIES MAY BE SHALLOW. THE CONTRACTOR IS RESPONSIBLE FOR WORKING AROUND THESE UTILITIES CAREFULLY AT NO ADDITIONAL COST TO THE STATE. THESE UTILITIES SHALL REMAIN IN PLACE AND SHALL BE KEPT OPERATIONAL AT ALL TIMES. HELCO/HTC/CABLE LINES ARE EITHER DIRECT BURY OR CONCRETE JACKETED.
- THE CONTRACTOR SHALL BACKFILL AND PAVE THE TOTAL LENGTH OF EXPOSED TRENCH OR PROVIDE STEEL PLATES WITH COLD-PATCH AC PAVEMENT EACH DAY SO AS NOT TO LEAVE A LONGITUDINAL DROP BETWEEN EXISTING PAVEMENT AND THE TRENCH AREA OR PLATE.
- ANY PAVEMENT, PAVEMENT MARKINGS, STRUCTURES, SIGNS AND OTHER APPURTENANCES DAMAGED BY THE CONTRACTOR AS A RESULT OF CONSTRUCTION OPERATIONS SHALL BE RESTORED TO ITS ORIGINAL, OR BETTER CONDITION.
- THE CONTRACTOR SHALL NOTIFY ALL AGENCIES TO VERIFY THE ACTUAL LOCATION OF ALL UTILITIES IN THE PROJECT AREA PRIOR TO START OF CONSTRUCTION EXCAVATION. THE CONTRACTOR SHALL COORDINATE AND SCHEDULE ALL WORK WITH AGENCIES AND UTILITY COMPANIES. ALL UTILITY WORK WITH UNDERGROUND INSTALLATIONS MUST BE COMPLETED PRIOR TO PAVING WORK BEING DONE ABOVE THEM.
- WORK INCIDENTAL TO THE CONTRACT AND NECESSARY TO COMPLETE THE PROJECT, ALTHOUGH NOT SPECIFICALLY REFERRED TO ON THE CONTRACT DOCUMENT, SHALL BE FURNISHED AND PERFORMED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE STATE.
- THE UNDERGROUND PIPES, CABLES OR DIRECT BURY/DUCTLINES KNOWN TO EXIST BY THE ENGINEER FROM HIS SEARCH OF RECORDS ARE INDICATED ON THE PLANS. LOCATION OF EXISTING UTILITY LINES SHOWN ON PLAN AND PROFILE ARE APPROXIMATE. THEREFORE, NO ASSURANCE CAN BE PROVIDED THAT THE ACTUAL LOCATIONS WILL BE PRECISELY AS SHOWN ON THE CONTRACT DRAWINGS. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF THE FACILITIES AND EXERCISE PROPER CARE IN EXCAVATING IN THE AREAS. WHEREVER CONNECTIONS OF NEW UTILITIES TO EXISTING UTILITIES ARE SHOWN ON THE PLANS, THE CONTRACTOR SHALL EXPOSE THE EXISTING LINES AT THE PROPOSED CONNECTIONS TO VERIFY THEIR LOCATIONS AND DEPTHS PRIOR TO EXCAVATION FOR THE NEW LINES. THE DEPTHS OF THE EXISTING UTILITIES MAY BE SHALLOW. THE CONTRACTOR IS RESPONSIBLE FOR WORKING AROUND THEM.
- FAILURE OF AN INSPECTOR AT ANY TIME TO REJECT NON-CONFORMING WORK SHALL NOT BE CONSIDERED A WAIVER OF THE STATE AND/OR COUNTY'S RIGHT TO REQUIRE WORK IN STRICT CONFORMITY WITH THE CONTRACT DOCUMENTS AS A CONDITION OF FINAL ACCEPTANCE.
- INSPECTIONS ARE PERFORMED FOR THE EXCLUSIVE BENEFIT OF THE STATE AND/OR COUNTY. THE INSPECTION OF OR THE FAILURE TO INSPECT THE WORK SHALL NOT RELIEVE THE

- CONTRACTOR OF OBLIGATIONS TO FULFILL THE CONTRACT AS PRESCRIBED, TO CORRECT DEFECTIVE WORK, AND TO REPLACE UNSUITABLE OR REJECTED MATERIALS REGARDLESS OF WHETHER PAYMENT FOR SUCH WORK HAS BEEN MADE.
- PROBING: SEE SECTION 104.11 OF THE HAWAII STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2005 EDITION, UNLESS OTHERWISE SPECIFIED ON THE PLANS OR SPECIFICATIONS AND SPECIAL PROVISIONS.
- THE CONTRACTOR SHALL COORDINATE WITH RESIDENCE/BUSINESSES AND PROVIDE REASONABLE ACCESS TO THEIR PROPERTY AT ALL TIMES.
- THE ENGINEER RESERVES THE RIGHT TO MAKE CHANGES TO THE DRAINAGE SYSTEM AS SUCH CHANGES ARE FOUND TO BE NECESSARY.
- ALL CONSTRUCTION LINES, GRADES AND SURVEY MONUMENT STAKEOUTS SHALL BE MADE BY LICENSED SURVEYORS IN HAWAII.
- THE CONTRACTOR SHALL CONDUCT ALL TESTS AS REQUIRED BY THE CONTRACT OR AS REQUIRED BY THE ENGINEER AND BE RESPONSIBLE FOR ALL EXPENSES INCURRED IN CONDUCTING THESE TESTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN, FROM THE APPROPRIATE COUNTY AND STATE AGENCIES, ALL PERMITS REQUIRED TO COMPLETE THE WORK SHOWN ON THESE PLANS INCLUDING, BUT NOT LIMITED TO, ALL DEMOLITION, CLEARING AND GRUBBING, GRADING, SHPD APPROVAL, AND AUTHORIZATION TO WORK WITHIN COUNTY RIGHT-OF-WAY, AT NO ADDITIONAL COST TO THE STATE.
- THE CONTRACTOR SHALL MAINTAIN A MINIMUM 36-INCH WIDE ACCESSIBLE ROUTE UNOBSTRUCTED BY SIGNS, POLES ETC.
- EXISTING TOPOGRAPHIC SURVEY WAS CONDUCTED FROM JANUARY 5 TO 19, 2016 BY IMATA AND ASSOCIATES, INC. UNDERGROUND UTILITIES SHOWN ARE FOR INFORMATION ONLY. NO GUARANTEE IS MADE ON THE ACCURACY AND COMPLETENESS OF THE INFORMATION. THE CONTRACTOR MUST VERIFY THE INFORMATION SHOWN IS ACCURATE PRIOR TO CONSTRUCTION.
- FOR BENCHMARKS, SEE SHEET C-4.
- THE CONTRACTOR SHALL SEQUENCE THE WORK TO ALLOW FOR IMPROVEMENTS THAT REQUIRE MODIFICATIONS TO EXISTING HELCO/HTC/CABLE LINE TO BE SCHEDULED LAST OR TOWARD THE END OF THE PROJECT. A PHASING PLAN SHALL BE PRESENTED TO THE ENGINEER FOR APPROVAL PRIOR TO BEGINNING OF WORK.
- ALL CONSTRUCTION WORK SHALL BE DONE IN ACCORDANCE WITH HAWAII STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2005 EDITION, STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION, SEPTEMBER 1984, AS AMENDED, OF THE DEPARTMENTS OF PUBLIC WORKS, COUNTY OF HAWAII AND THE STANDARD PLANS OF THE STATE OF HAWAII, DEPARTMENT OF TRANSPORTATION, HIGHWAYS DIVISION, INCLUSIVE DATED 2008, AS AMENDED.
- A LICENSED SURVEYOR SHALL SUBMIT A LETTER TO THE DPW CERTIFYING THAT THE MONUMENT STAKEOUT AND INSTALLATION IS CORRECT.
- THE CONTRACTOR SHALL CONDUCT ALL TESTS AS REQUIRED BY THE DPW AND/OR ENGINEER AND THE CONTRACT DOCUMENTS AND BE RESPONSIBLE FOR ALL EXPENSES INCURRED IN CONDUCTING THESE TESTS.
- THE CONTRACTOR SHALL PROVIDE AT LEAST ONE (1) LANE FOR TRAFFIC MOVEMENT AT ALL TIMES. TWO (2) LANES FOR TRAFFIC MOVEMENT SHALL BE PROVIDED BETWEEN THE HOURS OF 3:00 P.M. TO 8:30 A.M. ALL INTERSECTIONS MUST REMAIN OPEN TO TRAFFIC AT ALL TIMES.
- THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES, WHETHER SHOWN ON THE PLAN OR NOT, SHALL BE RESPONSIBLE FOR THE REPAIR OR REPLACEMENT OF SAME IN THE EVENT OF DAMAGES DUE TO ITS CONSTRUCTION PRACTICES. THE CONTRACTOR SHALL COORDINATE ITS WORK WITH THE RESPECTIVE UTILITY COMPANIES AT NO ADDITIONAL COST. THE CONTRACTOR SHALL BE RESPONSIBLE IF NECESSARY IN RESCHEDULING ITS WORK AND ADJUSTING LABOR AND EQUIPMENT TO ACCOMMODATE UTILITY WORK AT NO COST TO THE COUNTY OR STATE.
- THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL TRAFFIC CONTROL DEVICES IN CONFORMANCE WITH THE CURRENT EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS," AND AS DIRECTED BY THE DPW.
- ALL DIMENSIONS AND DETAILS SHOWN ON THE CONSTRUCTION DRAWINGS AND/OR SPECIFICATIONS SHALL BE CHECKED AND VERIFIED PRIOR TO THE START OF CONSTRUCTION, AND ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION.
- THE CONTRACTOR SHALL NOTIFY THE DPW 48 HOURS BEFORE THE COMMENCEMENT OF ANY UTILITY LINE WORK TO SCHEDULE A FIELD REVIEW AND SECURE APPROVAL OF THE PROPOSED UTILITY LINE LOCATION WITHIN THE COUNTY RIGHT-OF-WAY.
- THE PROPOSED UTILITY LINE RELOCATION SHALL BE LAID OUT IN THE FIELD PRIOR TO THE CONDUCTING OF THE FIELD REVIEW BY THE DPW.
- FIELD ADJUSTMENTS SHALL BE MADE AS DIRECTED BY THE DPW PRIOR TO THE COMMENCEMENT OF ANY UTILITY LINE WORK.
- THE REQUIRED PERMIT UNDER CHAPTER 22, ARTICLE 4, DIVISION 1 OF THE HAWAII COUNTY CODE, SHALL BE OBTAINED FROM THE DPW BY THE CONTRACTOR FOR WORK WITHIN THE COUNTY RIGHT-OF-WAY.
- THE EXISTING PAVEMENT SHALL BE SAW-CUT BEFORE COMMENCEMENT OF TRENCHING WORK. THIS IS INCIDENTAL TO THE TRENCHING.
- ANY PAVEMENT OUTSIDE THE CONTRACT ZONE LIMITS DAMAGED AS A RESULT OF CONSTRUCTION OPERATIONS SHALL BE RESTORED TO ITS ORIGINAL CONDITION, OR BETTER, AS DIRECTED BY DPW.
- THE EXISTING IMPROVEMENTS IN THE PROJECT LIMITS AND IN ADJACENT AREAS THAT ARE NOT TO BE REMOVED SHALL BE PRESERVED AND PROTECTED. ANY AND ALL DAMAGES RESULTING FROM THE CONTRACTOR'S CONSTRUCTION OPERATIONS SHALL BE REPLACED AND REPAIRED TO THE ORIGINAL OR BETTER CONDITION TO THE SATISFACTION OF THE OWNER AND PAID FOR BY THE CONTRACTOR. THE CONTRACTOR SHALL OBTAIN A WRITTEN APPROVAL FROM EACH AFFECTED PROPERTY OWNER TO BE SUBMITTED TO THE ENGINEER.

NOTES FOR WORK WITHIN THE COUNTY-MAINTAINED RIGHT-OF-WAY

- A TEMPORARY COLD MIX PATCH SHALL BE APPLIED IMMEDIATELY UPON COMPLETION OF THE BACKFILLING OPERATION OR UPON PLATING OF TRENCH AND SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL A PERMANENT PATCH IS AUTHORIZED BY THE DPW.
- NO MATERIAL, EXCEPT THE TRENCH EXCAVATED MATERIAL, SHALL BE STOCKPILED CLOSER THAN SIX (6) FEET FROM THE EXISTING EDGE OF PAVEMENT.
- NO CONSTRUCTION EQUIPMENT SHALL BE PARKED WITHIN THE ROAD RIGHT-OF-WAY IN SUCH MANNER THAT THE EQUIPMENT WILL OBSTRUCT THE NORMAL MOVEMENT AND SIGHT DISTANCE OF THE DRIVING MOTORIST, EXCEPT DURING ACTUAL WORKING HOURS.
- EXCEPT DURING ACTUAL WORKING HOURS, ALL SIGNS THAT DO NOT PERTAIN TO THE CONSTRUCTION ACTIVITY SUCH AS "MEN WORKING" AND "FLAGMAN AHEAD" SHALL BE COVERED OR LAID DOWN. HOWEVER, ALL SIGNS NECESSARY FOR THE SAFETY OF THE OF THE PUBLIC SHALL BE MAINTAINED.
- ANY PAVEMENT MARKINGS, STRUCTURES, AND APPURTENANCES (WITHIN OR OUTSIDE OF THE CONTRACT ZONE LIMITS) DAMAGED AND/OR WORN AWAY UNDER THE PERMIT BY THE UTILITY LINE INSTALLATION SHALL BE REPAINTED OR RECONSTRUCTED AS DIRECTED BY THE DPW.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFORMANCE WITH THE APPLICABLE PROVISIONS OF THE WATER QUALITY AND WATER POLLUTION CONTROL STANDARDS CONTAINED IN HAWAII ADMINISTRATIVE RULES, TITLE 11, CHAPTER 54, "WATER QUALITY STANDARDS" AND TITLE 11, CHAPTER 55, "WATER POLLUTION CONTROL", AS WELL AS CHAPTER 14 OF THE REVISED ORDINANCES OF HONOLULU, AS AMENDED. BEST MANAGEMENT PRACTICES SHALL BE EMPLOYED AT ALL TIMES DURING CONSTRUCTION.
- NO TRENCHING SHALL BE LEFT OPEN FOR MORE THAN FIVE (5) WORKING DAYS.
- THE CONTRACTOR SHALL MAINTAIN, TO THE SATISFACTION OF THE DPW, THE AREA WORKED WITHIN THE GOVERNMENT RIGHT-OF-WAY INCLUDING ANY REPAIRS TO PAVEMENT AND SHOULDER DAMAGED AS A RESULT OF THE INSTALLATION WORK, FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF ACCEPTANCE AS NOTED BY THE DPW. THE CONTRACTOR SHALL UNDERTAKE REPAIRS EXPEDITIOUSLY, WHENEVER DIRECTED BY THE DPW DURING THE MAINTENANCE PERIOD.
- PURSUANT TO CHAPTER 6E, HRS, IN THE EVENT ANY ARTIFACTS OR HUMAN REMAINS ARE UNCOVERED DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL IMMEDIATELY SUSPEND WORK IN THE AREA AND NOTIFY THE ENGINEER, THE COUNTY OF HAWAII POLICE DEPARTMENT, THE STATE DEPARTMENT OF LAND AND NATURAL RESOURCES HISTORIC PRESERVATION DIVISION (808-692-8015) AND THE DPW (808-961-8321).
- NO CONTRACTOR SHALL PERFORM ANY CONSTRUCTION OPERATION AS TO CAUSE FALLING ROCKS, SOIL OR DEBRIS IN ANY FORM TO FALL, SLIDE OR FLOW INTO EXISTING DRAINAGE SYSTEMS, OR ADJOINING PROPERTIES, STREETS OR NATURAL WATERCOURSES. SHOULD SUCH VIOLATIONS OCCUR, THE CONTRACTOR MAY BE CITED AND THE CONTRACTOR SHALL IMMEDIATELY MAKE ALL REMEDIAL ACTIONS NECESSARY AT ITS OWN COST.
- THE CONTRACTOR SHALL SUBMIT A NOISE POLLUTION CONTROL PLAN WHEN APPLYING FOR A CONSTRUCTION PERMIT.
- THE CONTRACTOR SHALL PROVIDE, INSTALL, AND MAINTAIN ALL NECESSARY SIGNS, LIGHTS, FLARES, BARRICADES, MARKERS, CONES, AND OTHER PROTECTIVE FACILITIES, AND SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION, CONVENIENCE, AND SAFETY OF THE TRAVELING PUBLIC. ALL SUCH PROTECTIVE FACILITIES AND PRECAUTIONS SHALL CONFORM WITH THE "ADMINISTRATIVE RULES OF HAWAII GOVERNING THE USE OF TRAFFIC CONTROL DEVICES AT WORK SITES ON, OR ADJACENT TO PUBLIC STREETS AND HIGHWAYS," ADOPTED BY THE DIRECTOR OF TRANSPORTATION, AND THE CURRENT U.S. FEDERAL HIGHWAYS ADMINISTRATION "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, PART VI - STANDARDS AND GUIDES FOR TRAFFIC CONTROLS FOR STREETS AND HIGHWAY CONSTRUCTION, MAINTENANCE, UTILITY AND INCIDENT MANAGEMENT OPERATIONS."
- IF LANE CLOSURES ARE REQUIRED DURING CONSTRUCTION, A TRAFFIC CONTROL PLAN SHALL BE INCORPORATED INTO THE CONSTRUCTION PLANS AND MUST BE APPROVED BY THE DIVISION PRIOR TO THE ISSUANCE OF THE PERMIT.
- NO MATERIAL AND/OR EQUIPMENT SHALL BE STOCKPILED OR OTHERWISE STORED WITHIN THE HIGHWAY RIGHT-OF-WAY, EXCEPT AT LOCATIONS DESIGNATED IN WRITING AND APPROVED BY THE DIRECTOR.
- THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ADEQUATE, SAFE, NON-SKID BRIDGING MATERIAL OVER THE TRENCH, INCLUDING SHORING, WHEN TRENCHING IN PAVEMENT AREAS TO HANDLE ALL TYPES OF VEHICULAR TRAFFIC. SMOOTH RIDING TAPERS SHALL BE PROVIDED FOR PAVEMENT TRANSITIONS AND ADVANCE WARNING SIGNS SHALL BE POSTED. PRIOR TO INSTALLING SUCH BRIDGING MATERIAL, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR ACCEPTANCE, DRAWINGS STAMPED BY A STRUCTURAL ENGINEER LICENSED IN THE STATE OF HAWAII.
- NO WORK WITHIN THE COUNTY RIGHT-OF-WAY SHALL BE DONE ON SATURDAYS, SUNDAY AND HOLIDAYS ANYTIME WITHOUT PRIOR APPROVAL FROM THE DEPARTMENT OF PUBLIC WORKS. RIGHT-OF-WAY WORK ON NORMAL WORKING DAYS SHALL BE LIMITED BETWEEN THE HOURS OF 7:00 A.M. TO 3:30 P.M.
- ALL REGULATORY, GUIDE, AND CONSTRUCTION SIGNS AND BARRICADES SHALL BE OF HIGH-INTENSITY REFLECTIVE SHEETING.
- UNPROTECTED PAVEMENT DROP OFFS GREATER THAN 2" WITHIN 8 FEET OF THE TRAVEL WAY SHALL NOT BE ALLOWED DURING NON-WORKING HOURS, EXCEPT WHERE APPROVED BY THE DIRECTOR IN WRITING.
- NO OPEN TRENCHES SHALL BE PERMITTED WITHIN THE CLEAR ZONE, DEFINED BY THE CURRENT EDITION OF THE "AASHTO ROADSIDE DESIGN GUIDE", EXCEPT WHERE SPECIFIED IN THE APPROVED TRAFFIC CONTROL PLAN, OR AS APPROVED BY THE DIRECTOR IN WRITING.
- FREE FLOW OF TRAFFIC SHALL BE MAINTAINED IN BOTH DIRECTIONS AT ALL TIMES. TEMPORARY STOPPAGES REQUIRE ADVANCE APPROVAL IN WRITING FROM THE DPW AND A "NOTICE TO MOTORISTS" MAY BE REQUIRED. SUBMIT THE NOTICE TO THE DPW FOR REVIEW AND ACCEPTANCE A MINIMUM OF 6 WEEKS PRIOR TO PUBLICATION.
- CLEAR SHOULDER AREAS SHALL BE MAINTAINED FOR BICYCLISTS AND PEDESTRIAN TRAFFIC AT ALL TIMES. IF THE SHOULDER IS TO BE CLOSED, APPROPRIATE SIGNS SHALL BE POSTED DIRECTING BICYCLISTS AND PEDESTRIANS TO USE ALTERNATE SHOULDER AREAS.

CONDITIONS - GRUBBING, GRADING, STOCKPILING

- ALL WORK SHALL CONFORM TO CHAPTER 10 OF HAWAII COUNTY CODE. SHOULD A GRADING PERMIT BE REQUIRED, NO WORK SHALL COMMENCE UNTIL THE DPW APPROVES A GRADING PERMIT.
- THE CONTRACTOR SHALL REMOVE ALL SILT AND DEBRIS DEPOSITED IN THE DRAINAGE FACILITIES, ROADWAYS AND OTHER AREAS RESULTING FROM HIS WORK. THE COSTS INCURRED FOR ANY NECESSARY REMEDIAL ACTION BY THE DPW SHALL BE PAYABLE BY THE CONTRACTOR.
- THE CONTRACTOR, AT ITS OWN EXPENSE, SHALL KEEP THE PROJECT AND SURROUNDING AREAS FREE FROM DUST NUISANCES. THE WORK SHALL BE IN CONFORMANCE WITH THE AIR POLLUTION CONTROL RULES OF THE STATE DEPARTMENT OF HEALTH, HAR 11-60.1, FUGITIVE DUST.
- ALL GRADING OPERATIONS SHALL BE PERFORMED IN CONFORMANCE WITH THE APPLICABLE PROVISIONS OF THE HAWAII ADMINISTRATIVE RULES, TITLE 11, CHAPTER 55, WATER POLLUTION CONTROL AND CHAPTER 54, WATER QUALITY STANDARDS, AND TO THE EROSION AND SEDIMENTATION CONTROL STANDARDS AND GUIDELINES OF THE DPW COUNTY OF HAWAII.
- THE CONTRACTOR SHALL SOD OR PLANT ALL SLOPES AND EXPOSED AREAS IMMEDIATELY AFTER THE GRADING WORK HAS BEEN COMPLETED.
- FILL SLOPES STEEPER THAN 5:1 SHALL BE KEYED.
- THE CONTRACTOR SHALL INFORM THE DPW OF THE LOCATION OF THE DISPOSAL AND/OR BORROW SITE(S) REQUIRED FOR THIS PROJECT WHEN AN APPLICATION FOR A GRADING PERMIT IS MADE. THE DISPOSAL AND/OR BORROW SITE(S) MUST ALSO FULFILL THE REQUIREMENTS OF THE GRADING ORDINANCE.
- NO GRADING WORK SHALL BE DONE ON SATURDAYS, SUNDAYS AND HOLIDAYS ANYTIME WITHOUT PRIOR APPROVAL FROM THE DPW. GRADING WORK ON NORMAL WORKING DAYS SHALL BE BETWEEN THE HOURS OF 8:30 A.M. TO 3:00 P.M.
- FILLS SHALL BE COMPACTED TO A MINIMUM 95 PERCENT (95%) COMPACTION PER ASTM D-1557 TEST.
- THE CONTRACTOR SHALL REMOVE ALL VEGETATION BEFORE PLACING FILLS ON NATURAL GROUND SURFACES.
- ALL FILL SHALL BE LAID IN 8-INCH LOOSE LIFTS, WATERED, ROLLED AND COMPACTED BEFORE THE NEXT LAYER IS LAID.
- FILL MATERIAL UNDER CONCRETE SLABS SHALL BE WELL-GRADED, NON EXPANSIVE GRANULAR MATERIAL LAID IN 8-INCH LOOSE LAYER AND EACH LAYER SHALL BE COMPACTED TO A MINIMUM 95 PERCENT (95%) COMPACTION.
- ALL TREE STUMPS AND ROOT SYSTEMS LOCATED WITHIN TWO (2) FEET OF THE EXISTING GRADE SHALL BE DUG OUT AND REMOVED.
- THE CONTRACTOR SHALL ASSUME ALL COSTS TO RETAIN A QUALIFIED INDEPENDENT TESTING LABORATORY TO PERFORM SOILS AND COMPACTION TESTS, AND SUBMIT TEST RESULTS TO THE ENGINEER.
- THE CONTRACTOR SHALL VERIFY GRADES/ELEVATIONS SHOWN ON PLANS AND REPORT ANY DISCREPANCY TO THE ENGINEER PRIOR TO BEGINNING WORK.
- SHOULD ANY UNANTICIPATED ARCHAEOLOGICAL SITE(S) BE UNCOVERED, ALL WORK SHALL CEASE IN THE IMMEDIATE AREA AND THE DLNR, HISTORIC PRESERVATION DIVISION (808-692-8015) SHALL BE NOTIFIED. NO WORK SHALL RESUME UNTIL CLEARANCE HAS BEEN OBTAINED FROM THE HISTORIC PRESERVATION DIVISION.
- CONTRACTOR SHALL BE AWARE THERE IS A POTENTIAL FOR THE PRESENCE OF UNEXPLODED ORDNANCE (UXO) WITHIN THE PROJECT LIMITS FROM FORMER US MILITARY TRAINING. TRAINED UXO PERSONNEL SHALL BE UTILIZED DURING ANY GROUND-DISTURBING ACTIVITIES. IN THE EVENT A UXO IS ENCOUNTERED, THE CONTRACTOR SHALL CEASE ALL WORK IMMEDIATELY IN THE VICINITY OF THE SITE AND IMMEDIATELY NOTIFY THE ENGINEER.

FINAL DESIGN SUBMITTAL



4/30/2018
EXPIRATION DATE OF THE LICENSE
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION. CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

SSFM International		SSFM INTERNATIONAL, INC. 99 Aupuni Street, Suite 202 Hilo, Hawaii 96720	
WAIMAEA HOMESTEAD COMMUNITY AGRICULTURAL PARK			
PUUKAPU, WAIMAEA, SOUTH KOHALA, HAWAII ISLAND OWNER AND DEVELOPER: DEPARTMENT OF HAWAIIAN HOME LANDS MANAGED BY: DEPARTMENT OF AGRICULTURE PROJECT NO. DDAH16 TAX MAP KEY: (3) 64-038-011 (POR.)			
GENERAL NOTES - 1			
DRAWN BY:	KAS, MGC	ENGINEER:	RM
CHECKED BY:	AWD		
APPROVED:			

W:_CIVIL_3D_PROJECTS\2015_001_000 DA WAIMAEA NUI AOEI PARK\01 CIVIL DRAWINGS\C-1 TO C-3 GEN NOTES.DWG 5/11/2016 7:52 PM RJO

EARTHWORK SUMMARY

CONTRACTOR TO COORDINATE REMOVAL OF SALVAGED EXCAVATED MATERIAL WITH "WAIMEA NUI COMMUNITY DEVELOPMENT CORPORATION" BEFORE MASS GRADING ACTIVITIES BEGIN.

WORK AREA	=	7.16 ACRES
<u>EXISTING SURFACE AND FINISH GRADE (ROADWAY GRAVEL FINISH - BASE BID)</u>		
EXCAVATION	=	4,020 CY (CUT)
EMBANKMENT	=	8,523 CY (FILL)
NET	=	4,503 CY (FILL)

WORK AREA	=	0.41 ACRES
<u>EXISTING SURFACE AND FINISH GRADE (TEMPORARY BASIN ONLY - BASE BID)</u>		
EXCAVATION	=	2,488 CY (CUT)
EMBANKMENT	=	0 CY (FILL)
NET	=	2,488 CY (CUT)

WORK AREA	=	4.10 ACRES
<u>EXISTING SURFACE AND FINISH GRADE (ROADWAY GRAVEL FINISH - ADD ALT 1)</u>		
EXCAVATION	=	3,192 CY (CUT)
EMBANKMENT	=	5,941 CY (FILL)
NET	=	2,749 CY (FILL)

WORK AREA	=	0.20 ACRES
<u>EXISTING SURFACE AND FINISH GRADE (TEMPORARY BASIN ONLY - ADD ALT 1)</u>		
EXCAVATION	=	1,029 CY (CUT)
EMBANKMENT	=	0 CY (FILL)
NET	=	1,029 CY (CUT)

WORK AREA	=	12.44 ACRES
<u>EXISTING SURFACE AND FINISH GRADE (AGRICULTURAL PARK - ADD ALT 2)</u>		
(**) EXCAVATION	=	9,028 CY (CUT TO SALVAGE)
EXCAVATION	=	20,919 CY (CUT)
EMBANKMENT	=	27,269 CY (FILL)
NET	=	6,350 CY (FILL)

WORK AREA	=	6.77 ACRES
<u>EXISTING SURFACE AND FINISH GRADE (AGRICULTURAL PARK - ADD ALT 3)</u>		
(**) EXCAVATION	=	1,281 CY (CUT TO SALVAGE)
EXCAVATION	=	1,915 CY (CUT)
EMBANKMENT	=	30,345 CY (FILL)
NET	=	28,430 CY (FILL)

WORK AREA	=	10.40 ACRES
<u>EXISTING SURFACE AND FINISH GRADE (AGRICULTURAL PARK - ADD ALT 4)</u>		
(**) EXCAVATION	=	2,161 CY (CUT TO SALVAGE)
EXCAVATION	=	4,433 CY (CUT)
EMBANKMENT	=	35,333 CY (FILL)
NET	=	30,900 CY (FILL)

(**) CONTRACTOR TO SALVAGE ANY EXCAVATED MATERIAL WITHIN FUTURE AGRICULTURAL PARK UP TO 18" IN DEPTH AND COORDINATE WITH WAIMEA NUI COMMUNITY DEVELOPMENT CORPORATION (WNCDC) FOR PLACEMENT.

FOR GRADING PERMIT PURPOSES ONLY. THE CONTRACTOR SHALL PERFORM HIS OWN QUANTITY ESTIMATES.

SOLID WASTE CONSTRUCTION NOTES

- UNLESS OTHERWISE SPECIFIED, THE CONTRACTOR IS RESPONSIBLE FOR THE PROPER HANDLING, STORAGE AND/OR DISPOSAL OF ALL WASTE GENERATED BY THIS CONSTRUCTION INCLUDING GRUBBING AND EXCESS EXCAVATED MATERIAL. ANY MATERIAL BROUGHT TO THE COUNTY LANDFILLS WILL BE SUBJECT TO THE INSTITUTED TIPPING FEE SYSTEM, WITH NO EXCEPTIONS OR EXEMPTIONS.
- ALL WASTES GENERATED BY CONSTRUCTION, INCLUDING GRUBBING, DEMOLITION AND EXCESS EXCAVATION MATERIAL MAY BE BROUGHT TO THE WEST HAWAII OR THE HILO LANDFILL. A PER TON FEE SHALL BE INCLUDED IN THE CONTRACTOR'S BID SUM. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE CURRENT/APPLICABLE FEES.
- CONSTRUCTION, DEMOLITION AND GRUBBING MATERIAL SHALL NOT BE DEPOSITED AT ANY OF THE COUNTY TRANSFER STATIONS, BUT SHALL BE TRANSPORTED FOR DISPOSAL AT EITHER THE WEST HAWAII OR HILO LANDFILL.
- ASBESTOS MATERIAL MUST BE SEPARATED, DOUBLE BAGGED AND LANDFILLED IN ACCORDANCE WITH REGULATIONS OF THE SOLID WASTE DIVISION, DEPARTMENT OF ENVIRONMENTAL MANAGEMENT. INFORMATION MAY BE OBTAINED BY CALLING THE DIVISION AT (808) 961-8339 BETWEEN 7:30 A.M. AND 4:00 P.M. MONDAY THROUGH FRIDAY.
- CHIP GRUBBED MATERIAL BEFORE BRINGING TO THE COUNTY LANDFILL IN ACCORDANCE WITH REGULATIONS OF THE SOLID WASTE DIVISION, DEPARTMENT OF PUBLIC WORKS.

DEMOLITION NOTES

- ALL EXISTING FENCES, GUARDRAILS, AC CURBS AND OTHER SAFETY DEVICES SUCH AS SIGNS, SIGNALS, AND DELINEATORS SHALL REMAIN IN PLACE AND REMAIN EFFECTIVE FOR AS LONG AS POSSIBLE BEFORE REMOVAL BECOMES NECESSARY.
- ALL DRIVEWAYS SHALL REMAIN ACCESSIBLE. ANY DISRUPTION DUE TO DRIVEWAY WORK SHALL BE COORDINATED WITH OWNERS.
- PROTECT EXISTING UTILITIES, ESPECIALLY WHERE AC PAVEMENT STRUCTURE IS BEING REMOVED TO NEW PAVEMENT SUBGRADE (INCIDENTAL).
- THE EARTHWORK QUANTITIES FOR THE AC PAVEMENT REMOVAL WILL BE INCLUDED AS INCIDENTAL TO THE VARIOUS OTHER CONTRACT ITEMS.
- ALL REMOVAL WORK SHALL INCLUDE DISPOSAL OFF-SITE OR DELIVERY OF SALVAGEABLE MATERIALS TO THE COUNTY AGENCY BASEYARD BY CONTRACTOR IN ACCORDANCE WITH ALL APPROPRIATE REGULATIONS. DISPOSAL SHALL BE CONSIDERED INCIDENTAL TO REMOVAL COSTS AND SHALL NOT BE PAID FOR SEPARATELY.
- REMOVAL OF HEDGES AND TREES ARE INCLUDED UNDER SECTION 02110: CLEARING AND GRUBBING. PAYMENT FOR CLEARING AND GRUBBING IS INCIDENTAL TO THE WORK AND SHALL NOT BE PAID FOR SEPARATELY.

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EXISTING DRAINAGE PATTERNS DURING CONSTRUCTION.
- REMOVAL/EXCAVATION OF EXISTING AC PAVEMENT SHALL BE TO SUBGRADE OF NEW PAVEMENT STRUCTURE. IF NEW SUBGRADE IS HIGHER THAN EXISTING AC SURFACE, REMOVE EXISTING AC SURFACE.

EROSION CONTROL NOTES AND BEST MANAGEMENT PRACTICES (BMPs)

- MEASURES TO CONTROL EROSION AND OTHER POLLUTANTS SHALL BE IN PLACE BEFORE ANY CLEARING AND GRUBBING WORK IS INITIATED. THESE MEASURES SHALL BE PROPERLY CONSTRUCTED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
- CONSTRUCTION SHALL BE SEQUENCED TO MINIMIZE THE EXPOSURE TIME OF CLEARED SURFACE AREA.
- ALL CONTROL MEASURES SHALL BE CHECKED AND REPAIRED AS NECESSARY.
- CONSTRUCT FACILITIES TO RETAIN ON-SITE WASTEWATER SUCH AS WATER FOR DUST CONTROL AND CONSTRUCTION EXIT WASH WATER AND PERCOLATE INTO THE SOIL. WASH WATER AFTER CLEANING CONCRETE TRUCKS SHALL BE CONTAINED IN A SEPARATE WASH AREA LINED WITH AN IMPERMEABLE LAYER AND NOT ALLOWED TO OVERFLOW. THE CONTRACTOR SHALL DETERMINE THE LOCATION AND SIZE OF THE WASH AREA.
- PRE-CONSTRUCTION VEGETATIVE GROUND COVER SHALL NOT BE DESTROYED, REMOVED OR DISTURBED MORE THAN TWENTY (20) CALENDAR DAYS PRIOR TO SITE DISTURBANCE.
- TEMPORARY SOIL STABILIZATION WITH APPROPRIATE VEGETATION SHALL BE APPLIED ON AREAS THAT WILL REMAIN UNFINISHED FOR MORE THAN THIRTY (30) CALENDAR DAYS.
- COMPOST FILTER SOCK SHALL BE USED AS TEMPORARY SLOPE STABILIZATION (SEE DETAIL 2/C-35) UNTIL SLOPES RECEIVE PERMANENT STABILIZATION.
- THE CONTRACTOR, AT ITS OWN EXPENSE, SHALL KEEP THE PROJECT AREA AND SURROUNDING AREA FREE FROM DUST NUISANCE. THE WORK SHALL BE DONE IN CONFORMANCE WITH THE AIR POLLUTION CONTROL STANDARDS OF THE LOCAL AGENCY.
- PERMANENT SOIL STABILIZATION WITH NATIVE MATERIAL SHALL BE APPLIED AS SOON AS PRACTICAL AFTER FINAL GRADING AND GRUBBING.
- STORM WATER FLOWING TOWARD THE CONSTRUCTION AREA SHALL BE DIVERTED BY USING APPROPRIATE CONTROL MEASURES AS PRACTICAL.
- CONTRACTOR SHALL CONSTRUCT 50' MIN. X 30' STABILIZED CONSTRUCTION ENTRANCE PER DETAIL 3/C-35, AT A LOCATION OF THE CONTRACTOR'S CHOOSING. PROVIDE CONSTRUCTION ENTRANCE FOR EACH INGRESS AND EGRESS. THE STABILIZED CONSTRUCTION ENTRANCE WILL BE REMOVED UPON JOB COMPLETION.
- EROSION CONTROL MEASURES SHOWN HEREON REPRESENT THE MINIMUM REQUIREMENTS. CONTRACTOR SHALL ADJUST EROSION CONTROL MEASURES TO PROVIDE BEST MANAGEMENT PRACTICES TO ADDRESS REQUIREMENT OF HAR 11-54 AS NEEDED AND AS CONSTRUCTION PHASING AND SEQUENCING REQUIRES. ANY REVISIONS AND/OR CHANGES AS A RESULT OF THESE CONDITIONS SHALL REQUIRE REVIEW AND APPROVAL BY THE CONSTRUCTION MANAGER, STATE AND COUNTY AGENCIES.

EROSION/TEMPORARY DUST CONTROL

- DURING CONSTRUCTION, PREVENTIVE MEASURES SHALL BE USED TO CONTROL FORESEEABLE DUST, EROSION OR SEDIMENTATION PROBLEMS WHICH MAY ARISE AS THE JOB PROGRESSES.
- DRAINAGE SYSTEMS AS SHOWN ON THE CONSTRUCTION PLANS SHALL BE CONSTRUCTED AS EARLY AS PRACTICALLY POSSIBLE.
- ALL FILL, SUBBASE AND BASE MATERIAL PLACED WITHIN THE ROAD PAVEMENT PRISM SHALL BE SUBSTANTIALLY COMPACTED BY THE END OF THE DAY.
- THE CONTRACTOR SHALL CONDUCT HIS GRADING OPERATIONS SO THAT EXCAVATION, EMBANKMENT AND IMPORTED MATERIAL SHALL BE DAMPENED WITH WATER DURING HIS GRADING OPERATIONS AT ALL TIMES.
- WATER TRUCKS AND/OR TEMPORARY SPRINKLERS SHALL BE AVAILABLE ON THE JOB SITE AT ALL TIMES TO ENSURE BARE EARTH DOES NOT CREATE A DUST PROBLEM.
- FUGITIVE DUST AND SOLID WASTE DISPOSAL DURING GRUBBING AND GRADING ACTIVITIES SHALL MEET REQUIREMENTS OF ADMINISTRATIVE RULES, TITLE 11, CHAPTER 60, AIR POLLUTION CONTROL, AND CHAPTER 58, SOLID WASTE MANAGEMENT CONTROL.

ARCHAEOLOGICAL NOTES

- IF DURING CONSTRUCTION, ANY PREVIOUSLY UNIDENTIFIED SITES OR REMAINS (SUCH AS ARTIFACTS, SHELL, BONE OR CHARCOAL DEPOSITS, HUMAN BURIALS, ROCK OR CORAL ALIGNMENTS, PAVING, OR WALLS) ARE ENCOUNTERED, THE CONTRACTOR SHALL STOP WORK AND CONTACT THE STATE DLNR HISTORIC PRESERVATION DIVISION (808-692-8015) IMMEDIATELY. WORK IN THE IMMEDIATE AREA SHALL BE STOPPED UNTIL THE OFFICE IS ABLE TO ASSESS THE IMPACT AND MAKE FURTHER RECOMMENDATIONS FOR MITIGATIVE ACTIVITY.
- SHOULD ANY UNANTICIPATED ARCHAEOLOGICAL SITE(S) BE UNCOVERED, ALL WORK SHALL CEASE IN THE IMMEDIATE AREA AND THE DLNR, HISTORIC PRESERVATION DIVISION (808-692-8015) SHALL BE NOTIFIED. NO WORK SHALL RESUME UNTIL CLEARANCE HAS BEEN OBTAINED FROM THE HISTORIC PRESERVATION DIVISION.
- PURSUANT TO CHAPTER 6E, HRS, IN THE EVENT ANY ARTIFACTS OR HUMAN REMAINS ARE UNCOVERED DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL IMMEDIATELY SUSPEND WORK IN THE AREA AND NOTIFY THE ENGINEER, THE COUNTY OF HAWAII POLICE DEPARTMENT, THE STATE DEPARTMENT OF LAND AND NATURAL RESOURCES HISTORIC PRESERVATION DIVISION (808-692-8015) AND THE DPW (808-961-8321).
- CONTRACTOR SHALL PREPARE AN ARCHAEOLOGICAL MONITORING PLAN FOR SITE #30195 AND OBTAIN SHPD APPROVAL PRIOR TO PROCEEDING WITH GROUND DISTURBING ACTIVITIES. SEE FINAL EA PREPARED BY GROUP 70 INTERNATIONAL DATED MAY 2015, SHPD HISTORIC PRESERVATION REVIEW LETTER DATED APRIL 27, 2015, AND ARCHAEOLOGICAL INVENTORY SURVEY PREPARED BY KEALA PONO ARCHAEOLOGICAL CONSULTING LLC DATED APRIL 2015.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

- THE NPDES PERMIT FROM THE STATE OF HAWAII DEPARTMENT OF HEALTH WILL BE OBTAINED FOR THE PROJECT.
- THE CONTRACTOR SHALL COMPLY WITH ALL THE REQUIREMENTS OF THE NPDES PERMIT.

NON-POTABLE WATER SYSTEM OR IRRIGATION IMPROVEMENTS NOTES

- UNLESS OTHERWISE SPECIFIED, ALL MATERIALS AND CONSTRUCTION OF WATER SYSTEM FACILITIES AND APPURTENANCES SHALL BE IN ACCORDANCE WITH THE DEPARTMENT OF WATER SUPPLY (DWS) AND ALL SUBSEQUENT AMENDMENTS AND ADDITIONS.
- CONTRACTOR SHALL COORDINATE WATER SHUT DOWN WITH THE DOA IRRIGATION DISTRICT MANAGER A MINIMUM OF 7 CALENDAR DAYS PRIOR TO SHUT DOWN. WATER SHALL NOT BE SHUT DOWN FOR MORE THAN 48 HOURS PER SHUT DOWN.
- TEST PRESSURE SHALL BE 85 PSI. DURING THE 30-MINUTE PRESSURE TEST, THE PRESSURE SHALL NOT DROP MORE THAN 10 PSI.
- THE CONTRACTOR SHALL NOTIFY DOA IN WRITING AND SUBMIT SIX (6) SETS OF APPROVED CONSTRUCTION PLANS ONE WEEK PRIOR TO COMMENCING WORK ON THE WATER SYSTEM.
- THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES AND STRUCTURES AS SHOWN ON THE PLANS ARE FROM THE LATEST AVAILABLE DATA BUT IS NOT GUARANTEED AS TO THE ACCURACY OR THE ENCOUNTERING OF OTHER OBSTACLES DURING THE COURSE OF THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE AND PAY FOR ALL DAMAGES TO EXISTING UTILITIES. THE CONTRACTOR SHALL NOT ASSUME THAT WHERE NO UTILITIES ARE SHOWN, THAT NONE EXIST.
- PRIOR TO INSTALLATION, THE CONTRACTOR SHALL SUBMIT FOR APPROVAL BY THE DEPARTMENT OF AGRICULTURE, THE MANUFACTURER'S CERTIFICATION THAT ALL CAST IRON (GRAY OR DUCTILE) FITTINGS FOR THE PROJECT CONFORM IN ALL RESPECTS TO THE WATER SYSTEM STANDARDS, DATED 2002.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL WATER LINES DURING CONSTRUCTION. THE CONTRACTOR SHALL BE ESPECIALLY CAREFUL WHEN EXCAVATING BEHIND WATER LINES, TEES, AND BENDS WHEREVER THERE IS A POSSIBILITY OF WATER LINE MOVEMENT DUE TO THE REMOVAL OF THE SUPPORTING EARTH BEYOND THE EXISTING REACTION BLOCKS. THE CONTRACTOR SHALL TAKE WHATEVER MEASURES NECESSARY TO PROTECT THE WATER LINES, SUCH AS CONSTRUCTING SPECIAL REACTION BLOCKS (WITH DOA APPROVAL) AND/OR MODIFYING HIS CONSTRUCTION METHOD.
- THE CONTRACTOR SHALL OBTAIN A NPDES PERMIT PRIOR TO CHLORINATION AND/OR DEWATERING. A COPY OF THE PERMIT SHALL BE SUBMITTED TO THE DEPARTMENT OF AGRICULTURE.
- ALL NEW BURIED TRANSMISSION PIPING IN THE NON-POTABLE WATER SYSTEM, INCLUDING SERVICE LINES, VALVES, AND OTHER APPURTENANCES SHALL BOTH BE COLORED PURPLE, SUGGESTED COLOR PANTONE 522 OR EQUAL, AND EMBOSSED OR BE INTEGRALLY STAMPED/MARKED "CAUTION: NON-POTABLE WATER DO NOT DRINK," OR BE INSTALLED WITH A PURPLE IDENTIFICATION TAPE, OR A PURPLE POLYETHYLENE WRAP, SUGGESTED COLOR INDEX 77742 VIOLET #16, PANTONE 512 OR EQUAL.
- THREE-INCH WIDE WARNING TAPE, PURPLE IN COLOR, WITH THE WORDS "CAUTION NON-POTABLE WATER - DO NOT DRINK" IMPRINTED IN INTERVALS NOT GREATER THAN FIVE FEET SHALL BE INSTALLED DIRECTLY ON THE TOP OF ALL IRRIGATION/NON-POTABLE LATERALS, PVC PIPES NOT MARKED NON-POTABLE, AND DUCTILE IRON PIPES. THE WARNING TAPE SHALL BE INSTALLED LONGITUDINALLY AND CONTINUOUSLY OVER THE ENTIRE LENGTH OF THE PIPE AND SHALL BE FASTENED TO THE PIPE WITH FIBER-REINFORCED TAPE AT 8 FEET ON CENTERS. LETTERS SHALL BE A MINIMUM OF 3/4 INCH HIGH.
- INTERCONNECTION BETWEEN IRRIGATION/NON-POTABLE AND POTABLE MAINS SHALL NOT BE ALLOWED.
- MATERIALS FOR FRAMES AND COVERS OF MANHOLES, VALVE BOXES, AND METER BOXES SHALL CONFORM TO THE REQUIREMENTS SPECIFIED IN THE WATER SYSTEM STANDARDS. THE IRRIGATION/NON-POTABLE COVERS SHALL BE CAST WITH THE WORD "IRRIGATION" AND SHALL BE PROVIDED WITH A 24-INCH LONG GALVANIZED STEEL COIL CHAIN, 3/16-INCH SIZE WITH 12.5 LINKS PER FOOT, AND BE WELDED TO THE FRAME AND COVER.
- HORIZONTAL CLEARANCE OF 3- FEET AND VERTICAL CLEARANCE OF 6-INCHES SHALL BE MAINTAINED BETWEEN IRRIGATION/NON-POTABLE AND OTHER PIPELINES.
- VALVE COVERS, MANHOLE COVERS, FIRE HYDRANTS, METER COVERS AND BODIES SHALL ALL BE PAINTED OSHA PURPLE FOR IDENTIFICATION.
- (*) PVC C900 PIPE SHALL BE IN COMPLIANCE WITH AWWA C900, 4-INCH TO 12-INCH. ALL NON-POTABLE C900 PVC MAINS SHALL BE MARKED ON OPPOSITE SIDES TO READ "CAUTION NON-POTABLE WATER - DO NOT DRINK" IN INTERVALS NOT GREATER THAN FIVE FEET. LETTERS SHALL BE A MINIMUM OF 3/4 INCHES HIGH. NON-POTABLE C900 PVC MAINS MAY BE PURPLE IN COLOR.
- (*) PVC C905 PIPE SHALL BE IN COMPLIANCE WITH AWWA C905, 14-INCH TO 36-INCH. ALL NON-POTABLE C905 PVC MAINS SHALL BE MARKED ON OPPOSITE SIDES TO READ "CAUTION NON-POTABLE WATER - DO NOT DRINK" IN INTERVALS NOT GREATER THAN FIVE FEET. LETTERS SHALL BE A MINIMUM OF 3/4 INCHES HIGH.
- PRIOR TO ANY EXCAVATING, THE CONTRACTOR SHALL VERIFY IN THE FIELD THE LOCATION OF EXISTING WATER MAINS AND APPURTENANCES.

(* IF APPLICABLE)

STORM DRAINAGE NOTES

- THE CONTRACTOR SHALL VERIFY AND CHECK ALL DIMENSIONS, LENGTHS, SLOPES, TOP AND INVERT ELEVATIONS, AND DETAILS OF DRAINAGE STRUCTURES PRIOR TO START OF CONSTRUCTION. ANY DISCREPANCY SHALL BE BROUGHT IMMEDIATELY TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION.

- THE CONTRACTOR SHALL NOTIFY AUTHORITY HAVING JURISDICTION (AHJ) PRIOR TO EXCAVATING FOR CONNECTION TO EXISTING AHJ STORM DRAINAGE FACILITIES.
- POSITIVE FLOW TO STORM DRAINAGE FACILITIES SHALL BE PROVIDED.

ABBREVIATIONS:

Ø	PHASE (IN PUMPS) OR DIAMETER	N.D.	NOMINAL DIAMETER
AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS	NPDES	NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
AC	ASPHALTIC CONCRETE	NPW	NON-POTABLE WATER
ADD ALT	ADDITIVE ALTERNATE	NRC	NATIONAL RESPONSE CENTER
AHJ	AUTHORITY HAVING JURISDICTION	NTS	NOT TO SCALE
APPROX.	APPROXIMATE	O.C.	ON CENTER
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	OH	OVERHEAD
AZ.	AZIMUTH	PAV'T	PAVEMENT
BM	BENCHMARK	PC	POINT OF CURVATURE
BMP	BEST MANAGEMENT PRACTICES	P.E.	PLAIN END
BV	BOTTOM VERTICAL	ℓ	PROPERTY LINE
℄	CENTERLINE	PNT	POINT
CBR	CALIFORNIA BEARING RATIO	PSI	POUNDS PER SQUARE INCH
CLR.	CLEAR	PT	POINT OF TANGENCY
CONC.	CONCRETE	PVC	POLYVINYL CHLORIDE
CRM	CONCRETE RUBBLE MASONRY	R	RADIUS
C/W	COMPLETE WITH	REINF.	REINFORCED
CWB	CLEAN WATER BRANCH	ROW	RIGHT OF WAY
DET.	DETAIL	RT	RIGHT
D.I.	DUCTILE IRON	RD	ROAD
DHHL	DEPARTMENT OF HAWAIIAN HOMELANDS	S	SLOPE
DOA	DEPARTMENT OF AGRICULTURE	SDS	SAFETY DATA SHEETS
DOH	DEPARTMENT OF HEALTH	SHLDR.	SHOULDER
DPW	DEPARTMENT OF PUBLIC WORKS	SHT.	SHEET
DWG	DRAWING	SQ.	SQUARE
DWS	DEPARTMENT OF WATER SUPPLY	STA.	STATION
EA	ENVIRONMENTAL ASSESSMENT	ST.	STREET
ELEV.	ELEVATION	SWPPP	STORM WATER POLLUTION PREVENTION PLAN
EP	EDGE OF PAVEMENT	TG	TOP OF GRATE
EPA	ENVIRONMENTAL PROTECTION AGENCY	T.M.K.	TAX MAP KEY
E.W.	EACH WAY	TRANS.	TRANSITION
EXIST.	EXISTING	TRV	TRAVERSE
F.E.	FLANGED END	TV	TOP VERTICAL
FG	FINISH GRADE	TYP.	TYPICAL
FH	FIRE HYDRANT	UP	UTILITY POLE
FT.	FEET	UXO	UNEXPLODED ORDNANCE
GAL	GALLONS	VC	VERTICAL CURVE
GDI	GRATED DROP INLET	VERT	VERTICAL
GV	GATE VALVE	W/	WITH
HDOT	HAWAII DEPARTMENT OF TRANSPORTATION	WL	WATERLINE
HEX.	HEXAGONAL	WM	WATER METER
HORIZ	HORIZONTAL	WNCDC	WAIMEA NUI COMMUNITY DEVELOPMENT CORPORATION
IN.	INCHES	WV	WATER VALVE
INV.	INVERT		
LT	LEFT		
L	LENGTH		
LF	LINEAR FEET		
LVL.	LEVEL		
MAX.	MAXIMUM		
MIN.	MINIMUM		
MSDS	MATERIAL SAFETY DATA SHEETS		

FINAL DESIGN SUBMITTAL



4/30/2018
EXPIRATION DATE OF THE LICENSE
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION. CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

SSFM International		SSFM INTERNATIONAL, INC. 99 Aupuni Street, Suite 202 Hilo, Hawaii 96720	
WAIMEA HOMESTEAD COMMUNITY AGRICULTURAL PARK			
PULUKAPU, WAIMEA, SOUTH KOHALA, HAWAII ISLAND OWNER AND DEVELOPER: DEPARTMENT OF HAWAIIAN HOME LANDS MANAGED BY: DEPARTMENT OF AGRICULTURE PROJECT NO. DOAH16 TAX MAP KEY: (3) 6-4-038-011 (POR.)			
GENERAL NOTES - 2			
DRAWN BY:	KAS, MGC	ENGINEER:	RM
CHECKED BY:	AWD		
APPROVED:			

WATER POLLUTION AND EROSION CONTROL NOTES

A. GENERAL:

- SEE SPECIAL PROVISIONS SECTION 209 – WATER POLLUTION AND EROSION CONTROL. SECTION 209 DESCRIBES BUT IS NOT LIMITED TO: SUBMITTAL REQUIREMENTS; SCHEDULING OF A WATER POLLUTION AND EROSION CONTROL CONFERENCE WITH THE ENGINEER; CONSTRUCTION REQUIREMENTS; METHOD OF MEASUREMENT; AND BASIS OF PAYMENT. IN ADDITION, APPENDIX A LISTS POTENTIAL POLLUTANT SOURCES AND CORRESPONDING BMPs USED TO MITIGATE THE POLLUTANTS.
- FOLLOW THE GUIDELINES IN THE CURRENT HDOT CONSTRUCTION BEST MANAGEMENT PRACTICES FIELD MANUAL IN DEVELOPING, INSTALLING AND MAINTAINING THE BEST MANAGEMENT PRACTICES FOR THE PROJECT. 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 NOTE A.2, "APPLICABLE BID DOCUMENTS" INCLUDE THE CONSTRUCTION PLANS, STANDARD SPECIFICATIONS, SPECIAL PROVISIONS, PERMITS, AND THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) WHEN APPLICABLE.
- FOLLOW THE GUIDELINES IN THE HONOLULU'S CITY & COUNTY "RULES RELATING TO SOIL EROSION STANDARDS AND GUIDELINES" ALONG WITH APPLICABLE SOIL EROSION GUIDELINES FOR PROJECTS ON MAUI, MOLOKAI, KAUAI, AND HAWAII.
- THE ENGINEER MAY ASSESS LIQUIDATED DAMAGES OF UP TO \$27,500 FOR NON-COMPLIANCE OF EACH BMP REQUIREMENT AND EACH REQUIREMENT STATED IN SECTION 209 AND SPECIAL PROVISIONS, FOR EVERY DAY OF NON-COMPLIANCE. THERE IS NO MAXIMUM LIMIT ON THE AMOUNT ASSESSED PER DAY.
- THE ENGINEER WILL DEDUCT THE COST FROM THE PROGRESS PAYMENT FOR ALL CITATIONS RECEIVED BY THE DEPARTMENT FOR NON-COMPLIANCE, OR THE CONTRACTOR SHALL REIMBURSE THE STATE FOR THE FULL AMOUNT OF THE OUTSTANDING COST INCURRED BY THE STATE.
- IF NECESSARY, INSTALL A RAIN GAGE PRIOR TO ANY FIELD WORK INCLUDING THE INSTALLATION OF ANY SITE-SPECIFIC BEST MANAGEMENT PRACTICES. THE RAIN GAGE SHALL HAVE A TOLERANCE OF AT LEAST 0.05 INCHES OF RAINFALL. INSTALL THE RAIN GAGE ON THE PROJECT SITE IN AN AREA THAT WILL NOT DETER RAINFALL FROM ENTERING THE GAGE OPENING. DO NOT INSTALL IN A LOCATION WHERE RAIN WATER MAY SPLASH INTO RAIN GAGE. THE RAIN GAGE INSTALLATION SHALL BE STABLE AND PLUMBED. DO NOT BEGIN FIELD WORK UNTIL THE RAIN GAGE IS INSTALLED AND SITE-SPECIFIC BEST MANAGEMENT PRACTICES ARE IN-PLACE.
- SUBMIT SITE-SPECIFIC BMP PLAN TO THE ENGINEER ALONG WITH A COMPLETED SITE-SPECIFIC BMP REVIEW CHECKLIST WITHIN 30 CALENDAR DAYS OF CONTRACT EXECUTION. THE SITE-SPECIFIC BMP REVIEW CHECKLIST MAY BE OBTAINED FROM [HTTP://WWW.STORMWATERHAWAII.COM](http://www.stormwaterhawaii.com).

B. WASTE DISPOSAL:

- WASTE MATERIALS**
COLLECT AND STORE ALL WASTE MATERIALS IN A SECURELY LIDDED METAL DUMPSTER OR ROLL OFF CONTAINER WITH COVER TO KEEP RAIN OUT OR LOSS OF WASTE DURING WINDY CONDITIONS. THE DUMPSTER SHALL MEET ALL LOCAL AND STATE SOLID WASTE MANAGEMENT REGULATIONS. DEPOSIT ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE IN THE DUMPSTER. EMPTY THE DUMPSTER WEEKLY OR WHEN THE CONTAINER IS TWO-THIRDS FULL, WHICHEVER IS SOONER. DO NOT BURY CONSTRUCTION WASTE MATERIALS ONSITE. THE CONTRACTOR'S SUPERVISORY PERSONNEL SHALL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. POST NOTICES STATING THESE PRACTICES IN THE OFFICE TRAILER, ON A WEATHERPROOF BULLETIN BOARD, OR OTHER ACCESSIBLE LOCATION ACCEPTABLE TO THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED. SUBMIT THE SOLID WASTE DISCLOSURE FORM FOR CONSTRUCTION SITES TO THE ENGINEER WITHIN 30 CALENDAR DAYS OF CONTRACT EXECUTION. 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.
- HAZARDOUS WASTE**
DISPOSE ALL HAZARDOUS WASTE MATERIALS IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATIONS AND BY THE MANUFACTURER. THE CONTRACTOR'S SITE PERSONNEL SHALL BE INSTRUCTED IN THESE PRACTICES AND SHALL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED.
- SANITARY WASTE**
COLLECT ALL SANITARY WASTE FROM THE PORTABLE UNITS A MINIMUM OF ONCE PER WEEK, OR AS REQUIRED. POSITION SANITARY FACILITIES WHERE THEY ARE SECURE AND WILL NOT BE TIPPED OVER OR KNOCKED DOWN.

C. EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES:

- FOR PROJECTS WITH AN NPDES PERMIT FOR CONSTRUCTION ACTIVITIES, INSPECT AT THE FOLLOWING INTERVALS. FOR CONSTRUCTION AREAS DISCHARGING TO NUTRIENT OR SEDIMENT IMPAIRED WATERS, INSPECT ALL CONTROL MEASURES AT LEAST ONCE EACH WEEK AND WITHIN 24 HOURS OF ANY RAINFALL EVENT OF 0.25 INCHES OR GREATER WITHIN A 24 HOUR PERIOD. FOR CONSTRUCTION AREAS DISCHARGING TO WATERS NOT IMPAIRED FOR NUTRIENT OR SEDIMENTS, INSPECT ALL CONTROL MEASURES WEEKLY. INSPECTIONS ARE ONLY REQUIRED DURING THE PROJECT'S NORMAL WORKING HOURS. THE DISCHARGE POINT WATER CLASSIFICATION MAY BE FOUND IN THE SWPPP
- FOR PROJECTS WITHOUT AN NPDES PERMIT FOR CONSTRUCTION ACTIVITIES, INSPECT ALL CONTROL MEASURES WEEKLY.
- MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES IN GOOD WORKING ORDER. IF REPAIR IS NECESSARY, INITIATE REPAIR IMMEDIATELY AND COMPLETE 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. WHEN INSTALLATION OF A NEW EROSION OR SEDIMENT CONTROL OR A SIGNIFICANT REPAIR IS NEEDED, INSTALL THE NEW OR MODIFIED CONTROL OR COMPLETE THE REPAIR NO LATER THAN 7 CALENDAR DAYS FROM THE TIME OF DISCOVERY. "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.

- REMOVE BUILT-UP SEDIMENT FROM SILT FENCE WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE FENCE. REMOVE SEDIMENT FROM OTHER PERIMETER SEDIMENT CONTROL DEVICES WHEN IT HAS REACHED ONE-HALF THE HEIGHT OF THE DEVICE.
- INSPECT SILT SCREEN OR FENCE FOR DEPTH OF SEDIMENT, TEARS, TO VERIFY THAT THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS OR CONCRETE SLAB AND TO VERIFY THAT THE FENCE POSTS ARE FIRMLY IN THE GROUND. INSPECT AND VERIFY THE BOTTOM OF THE SILT SCREEN IS BURIED A MINIMUM OF 6 INCHES BELOW THE EXISTING GROUND.
- INSPECT TEMPORARY AND PERMANENT SEEDING AND PLANTING FOR BARE SPOTS, WASHOUTS AND HEALTHY GROWTH.
- COMPLETE AND SUBMIT TO THE ENGINEER A MAINTENANCE INSPECTION REPORT WITHIN 24 HOURS AFTER EACH INSPECTION.
- PROVIDE A STABILIZED CONSTRUCTION ENTRANCE AT ALL POINTS OF EXIT ONTO PAVED ROADS TO REDUCE VEHICLE TRACKING OF SEDIMENTS. INCLUDE STABILIZED CONSTRUCTION ENTRANCE IN THE WATER POLLUTION, DUST, AND EROSION CONTROL SUBMITTALS. MINIMUM LENGTH SHOULD BE 50 FEET. MINIMUM WIDTH SHOULD BE 30 FEET. MINIMUM DEPTH SHOULD BE 12 INCHES OR AS RECOMMENDED BY THE SOILS ENGINEER AND UNDERLAIN WITH GEO-TEXTILE FABRIC. IF MINIMUM DIMENSIONS CANNOT BE MET, PROVIDE OTHER STABILIZATION TECHNIQUES THAT REMOVE SEDIMENT PRIOR TO EXIT. CLEAN THE PAVED STREET ADJACENT TO THE SITE ENTRANCE DAILY OR AS REQUIRED TO REMOVE ANY EXCESS MUD, COLD-PLANED MATERIALS, DIRT OR ROCK TRACKED FROM THE SITE. DO NOT HOSE DOWN THE STREET WITHOUT CONTAINING OR VACUUMING WASH WATER. COVER DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WITH A TARPULIN. REMOVE SEDIMENT TRACKED ONTO THE STREET, SIDEWALK, OR OTHER PAVED AREA BY THE END OF THE DAY IN WHICH THE TRACK-OUT OCCURS.
- INCLUDE DESIGNATED CONCRETE WASHOUT AREA(S) IN THE WATER POLLUTION, DUST, AND EROSION CONTROL SUBMITTALS.
- SUBMIT THE NAME OF A SPECIFIC INDIVIDUAL DESIGNATED RESPONSIBLE FOR INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES AND FILLING OUT THE INSPECTION AND MAINTENANCE REPORT.
- PERSONNEL SELECTED FOR THE INSPECTION AND MAINTENANCE RESPONSIBILITIES SHALL RECEIVE TRAINING FROM THE CONTRACTOR. THEY SHALL BE TRAINED IN ALL THE INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ONSITE IN GOOD WORKING ORDER.
- CONTAIN, REMOVE, AND DISPOSE SLURRY GENERATED FROM SAW CUTTING OF PAVEMENT IN ACCORDANCE WITH APPROVED BMP PRACTICES. DO NOT ALLOW DISCHARGE INTO THE DRAINAGE SYSTEM OR STATE WATERS.
- FOR PROJECTS WITH AN NPDES PERMIT FOR CONSTRUCTION ACTIVITIES, IMMEDIATELY INITIATE STABILIZING EXPOSED SOIL AREAS UPON COMPLETION OF EARTH-DISTURBING ACTIVITIES FOR AREAS WHERE EARTH-DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED. 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 (I.E., THE LAND WILL BE IDLE) FOR A PERIOD OF 14 OR MORE CALENDAR DAYS, BUT SUCH ACTIVITIES WILL RESUME IN THE FUTURE. FOR CONSTRUCTION AREAS DISCHARGING INTO WATERS NOT IMPAIRED FOR NUTRIENTS SEDIMENTS, COMPLETE INITIAL STABILIZATION WITHIN 14 CALENDAR DAYS AFTER THE TEMPORARY OR PERMANENT CESSATION OF EARTH-DISTURBING ACTIVITIES. FOR CONSTRUCTION AREAS DISCHARGING INTO NUTRIENT OR SEDIMENT IMPAIRED WATERS, COMPLETE INITIAL STABILIZATION WITHIN 7 CALENDAR DAYS AFTER THE TEMPORARY OR PERMANENT CESSATION OF EARTH-DISTURBING ACTIVITIES. CLASSIFICATION OF WATER AT THE DISCHARGE POINT MAY BE FOUND IN THE SWPPP.
- FOR PROJECTS WITHOUT AN NPDES PERMIT FOR CONSTRUCTION ACTIVITIES, COMPLETE INITIAL STABILIZATION WITHIN 14 CALENDAR DAYS AFTER THE TEMPORARY OR PERMANENT CESSATION OF EARTH-DISTURBING ACTIVITIES.

D. GOOD HOUSEKEEPING BEST MANAGEMENT PRACTICES:

- MATERIALS POLLUTION PREVENTION PLAN**
 - APPLICABLE MATERIALS OR SUBSTANCES LISTED BELOW ARE EXPECTED TO BE PRESENT ONSITE DURING CONSTRUCTION. OTHER MATERIALS AND SUBSTANCES NOT LISTED BELOW SHALL BE ADDED TO THE INVENTORY.

CONCRETE	CLEANING SOLVENTS
DETERGENTS	WOOD
PAINTS (ENAMEL AND LATEX)	MASONRY BLOCK
METAL STUDS	HERBICIDES AND PESTICIDES
TAR	CURING COMPOUNDS
FERTILIZERS	ADHESIVES
 - PETROLEUM BASED PRODUCTS
- USE MATERIAL MANAGEMENT PRACTICES TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF. MAKE AN EFFORT TO STORE ONLY ENOUGH PRODUCT AS IS REQUIRED TO DO THE JOB.
- STORE ALL MATERIALS STORED ONSITE IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND IF POSSIBLE UNDER A ROOF OR OTHER ENCLOSURE.
- KEEP PRODUCTS IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL.
- DO NOT MIX SUBSTANCES WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.
- WHENEVER POSSIBLE, USE A PRODUCT UP COMPLETELY BEFORE DISPOSING OF THE CONTAINER.
- FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL.

E. PERMIT REQUIREMENTS

- A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT FOR CONSTRUCTION ACTIVITIES OF ONE ACRE OR MORE OF DISTURBED AREA IS REQUIRED FOR THIS PROJECT. IF THE CONTRACTOR REQUIRES EXTRA LAND DISTURBANCE, INCLUDING STAGING AND STORAGE AREAS, THAT IS NOT COVERED BY THE NPDES PERMIT OBTAINED BY THE STATE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE REQUIRED NPDES CONSTRUCTION ACTIVITIES PERMIT TO COVER THIS ADDITIONAL DISTURBED AREA. SEE HAWAII ADMINISTRATIVE RULES CHAPTER 11-55, APPENDIX C FOR DEFINITION OF LAND DISTURBANCE. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE APPLICABLE NPDES PERMIT DOCUMENTS ON THE BID PACKAGE COMPACT DISC.

- CONDUCT A DAILY INSPECTION TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS ONSITE.
- HAZARDOUS MATERIAL POLLUTION PREVENTION PLAN**
 - KEEP PRODUCTS IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE.
 - RETAIN ORIGINAL LABELS AND SAFETY DATA SHEETS (SDS), FORMERLY MATERIAL SAFETY DATA SHEETS (MSDS).
 - DISPOSE OF SURPLUS PRODUCTS ACCORDING TO MANUFACTURERS' INSTRUCTIONS AND LOCAL AND STATE REGULATIONS.
- ONSITE AND OFFSITE PRODUCT SPECIFIC PLAN**
THE FOLLOWING PRODUCT SPECIFIC PRACTICES SHALL BE FOLLOWED ONSITE:
 - PETROLEUM BASED PRODUCTS:**
MONITOR ALL ONSITE VEHICLES FOR LEAKS AND PERFORM REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. STORE PETROLEUM PRODUCTS IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. APPLY ASPHALT SUBSTANCES USED ONSITE ACCORDING TO THE MANUFACTURER'S RECOMMENDATION.
 - FERTILIZERS:**
APPLY FERTILIZERS USED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER AND FEDERAL, STATE, AND LOCAL REQUIREMENTS. AVOID APPLYING JUST BEFORE A HEAVY RAIN EVENT. APPLY 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. ONCE APPLIED, WORK FERTILIZER INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. DO NOT APPLY TO STORM CONVEYANCE CHANNELS WITH FLOWING WATER. STORAGE SHALL BE IN A COVERED SHED OR IN AN AREA WHERE FERTILIZER WILL NOT COME INTO CONTACT WITH PRECIPITATION OR STORMWATER. TRANSFER THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.
 - PAINTS:**
SEAL AND STORE ALL CONTAINERS WHEN NOT REQUIRED FOR USE. DO NOT DISCHARGE EXCESS PAINT TO THE DRAINAGE SYSTEM, SANITARY SEWER SYSTEM, OR STATE WATERS. DISPOSE PROPERLY ACCORDING TO MANUFACTURERS' INSTRUCTIONS AND STATE AND LOCAL REGULATIONS.
 - CONCRETE TRUCKS:**
WASHOUT OR DISCHARGE CONCRETE TRUCK DRUM WASH WATER ONLY AT A DESIGNATED SITE AS FAR AS PRACTICABLE FROM STORM DRAIN INLETS OR STATE WATERS. DO NOT DISCHARGE WATER IN THE DRAINAGE SYSTEM OR STATE WATERS. DISPOSAL BY PERCOLATION IS PROHIBITED. CLEAN DISPOSAL SITE AS REQUIRED OR AS REQUESTED BY THE ENGINEER.
- SPILL CONTROL PLAN**
 - POST A SPILL PREVENTION PLAN TO INCLUDE MEASURES TO PREVENT AND CLEAN UP EACH SPILL.
 - THE CONTRACTOR SHALL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. DESIGNATE AT LEAST THREE SITE PERSONNEL WHO SHALL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS SHALL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. POST THE NAMES OF RESPONSIBLE SPILL PERSONNEL IN THE MATERIAL STORAGE AREA ON A WEATHERPROOF BULLETIN BOARD OR OTHER ACCESSIBLE LOCATION ACCEPTABLE TO THE ENGINEER AND IN THE OFFICE TRAILER ONSITE.
 - CLEARLY POST MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP. MAKE SITE PERSONNEL AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.
 - KEEP AMPLIFIED MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP IN THE MATERIAL STORAGE AREA ONSITE.
 - CLEAN UP ALL SPILLS IMMEDIATELY AFTER DISCOVERY.
 - KEEP THE SPILL AREA WELL VENTILATED. PERSONNEL SHALL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.
 - REPORT SPILLS OF TOXIC HAZARDOUS MATERIAL TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE. 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 ENGINEER AS SOON AS THE CONTRACTOR HAS KNOWLEDGE OF THE DISCHARGE. THE ENGINEER WILL 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 AND THE CLEAN WATER BRANCH (DOH-CWB) VIA EMAIL AT CLEANWATERBRANCH@DOH.HAWAII.GOV DURING NON-BUSINESS HOURS IMMEDIATELY. 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.

- COMPLY WITH ALL APPLICABLE STATE AND FEDERAL PERMIT CONDITIONS. PERMITS MAY INCLUDE, BUT NOT LIMITED TO THE FOLLOWING:
 - NPDES PERMIT FOR CONSTRUCTION ACTIVITIES
 - NPDES PERMIT FOR CONSTRUCTION DEWATERING
 - NPDES PERMIT FOR HYDROTESTING WATERS
 - WATER QUALITY CERTIFICATION
 - STREAM CHANNEL ALTERATION PERMIT
 - SECTION 404 ARMY CORPS OF ENGINEER PERMIT

F. SITE-SPECIFIC BMP REQUIREMENTS:

EACH BMP BELOW IS REFERENCED TO THE CORRESPONDING SECTION OF THE CURRENT HDOT CONSTRUCTION BEST MANAGEMENT PRACTICES FIELD MANUAL AND 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/](http://www.stormwaterhawaii.com/resources/contractors-and-consultants/) UNDER CONSTRUCTION BEST MANAGEMENT PRACTICES FIELD MANUAL.

THE REQUIREMENTS FOR WATER POLLUTION, DUST, AND EROSION CONTROL SUBMITTALS ARE INCLUDED IN SECTION 209 OF THE HAWAII STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED 2005 AND APPLICABLE SPECIAL PROVISIONS. A LIST OF POLLUTANT SOURCES AND CORRESPONDING BMP USED TO MITIGATE THE POLLUTANTS ARE INCLUDED IN SECTION 209 OF THE SPECIAL PROVISIONS UNDER APPENDIX A.

FOLLOW THE REQUIREMENTS BELOW:

- PROTECT ALL DRAINAGE INLETS RECEIVING RUNOFF FROM DISTURBED AREAS (SC-2).
- CONTAIN ON-SITE RUNOFF USING PERIMETER SEDIMENT CONTROLS
 - SC-1 SILT FENCE
 - SC-5 VEGETATED FILTER STRIPS AND BUFFERS
 - SC-8 COMPOST FILTER BERM
 - SC-13 SANDBAG BARRIER
 - SC-14 BRUSH OR ROCK FILTER
- CONTROL OFFSITE RUNOFF FROM ENTERING CONSTRUCTION AREA
 - EC-8 RUN-ON DIVERSION
 - SC-6 EARTH DIKE
 - SC-7 TEMPORARY DRAINS AND SWALES
- INCORPORATE APPLICABLE SITE MANAGEMENT BMP
 - SM-1 EMPLOYEE TRAINING
 - SM-2 MATERIAL DELIVERY AND STORAGE
 - SM-3 MATERIAL USE
 - SM-4 PROTECTION OF STOCKPILES
 - SM-6 SOLID WASTE MANAGEMENT
 - SM-7 SANITARY/SEPTIC WASTE MANAGEMENT
 - SM-9 HAZARDOUS WASTE MANAGEMENT
 - SM-10 SPILL PREVENTION AND CONTROL
 - SM-11 VEHICLE AND EQUIPMENT CLEANING
 - SM-12 VEHICLE AND EQUIPMENT MAINTENANCE
 - SM-13 VEHICLE AND EQUIPMENT REFUELING
 - SM-14 SCHEDULING
 - SM-15 LOCATION OF POTENTIAL SOURCES OF SEDIMENT
 - SM-16 PRESERVATION OF EXISTING VEGETATION
 - SM-18 DUST CONTROL
- CONTAIN POLLUTANTS WITHIN THE CONSTRUCTION STAGING/STORAGE AREA BMP WITH APPLICABLE PERIMETER SEDIMENT CONTROLS AND SITE MANAGEMENT BMP. INCLUDE A STABILIZED CONSTRUCTION ENTRANCE/EXIT (EC-2) FOR ALL AREAS WHICH EXIT ONTO A PAVED STREET. RESTRICT VEHICLE ACCESS TO THESE POINTS.
- MANAGE CONCRETE WASTE INCLUDING INSTALLING A CONCRETE WASHOUT AREA (SM-5) AND PROPERLY DISPOSING OF CONCRETE CURING WATER (CALIFORNIA STORMWATER BMP HANDBOOK NS-12 CONCRETE CURING).
- REMOVE SAW CUT SLURRY AND HYDRODEMOLITION WATER FROM THE SITE BY VACUUMING. PROVIDE STORM DRAIN PROTECTION AND/OR PERIMETER SEDIMENT CONTROLS DURING SAW CUTTING AND HYDRODEMOLITION WORK.

FINAL DESIGN SUBMITTAL



4/30/2018
EXPIRATION DATE OF THE LICENSE
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Hilo, Hawaii 96720

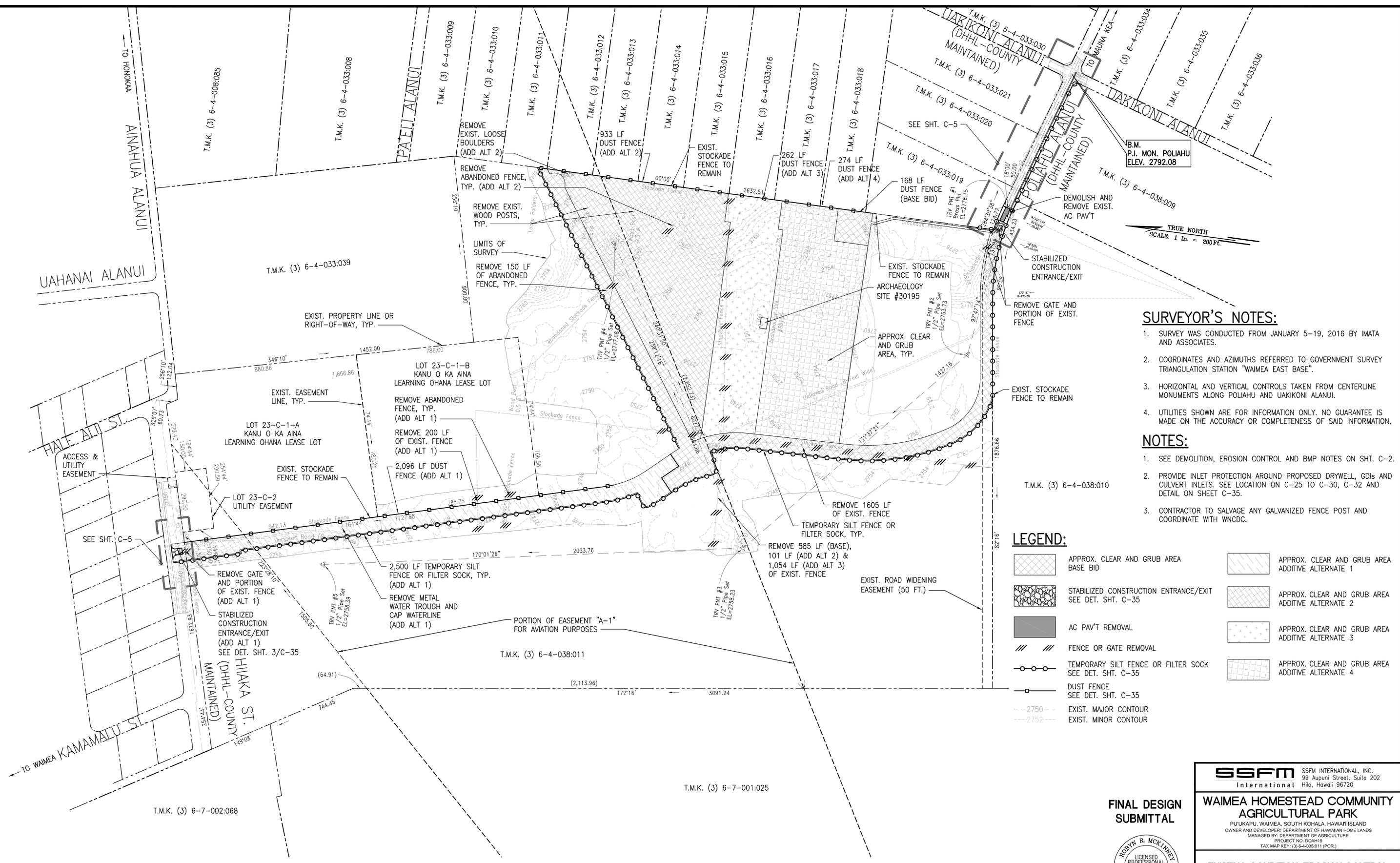
WAIMEA HOMESTEAD COMMUNITY AGRICULTURAL PARK
PUUKAPU, WAIMEA, SOUTH KOHALA, HAWAII ISLAND
OWNER AND DEVELOPER: DEPARTMENT OF HAWAIIAN HOME LANDS
MANAGED BY: DEPARTMENT OF AGRICULTURE
PROJECT NO. DOAH19
TAX MAP KEY: (3) 64-038-011 (POR.)

GENERAL NOTES - 3

DRAWN BY: KAS, MGC ENGINEER: RM CHECKED BY: AWD

APPROVED:

HA_CIVIL_3D_PROJECTS\2015_071_000_DA_WAIMEA_NUI_AGRIC_PARK\01_CIVIL_DRAWINGS\C-4_EC_DEMO_PLAN_1.DWG - 5/10/2016 11:00 AM JANANA



SURVEYOR'S NOTES:

1. SURVEY WAS CONDUCTED FROM JANUARY 5-19, 2016 BY IMATA AND ASSOCIATES.
2. COORDINATES AND AZIMUTHS REFERRED TO GOVERNMENT SURVEY TRIANGULATION STATION "WAIMEA EAST BASE".
3. HORIZONTAL AND VERTICAL CONTROLS TAKEN FROM CENTERLINE MONUMENTS ALONG POLIAHU AND UAKIKONI ALANUI.
4. UTILITIES SHOWN ARE FOR INFORMATION ONLY. NO GUARANTEE IS MADE ON THE ACCURACY OR COMPLETENESS OF SAID INFORMATION.

NOTES:

1. SEE DEMOLITION, EROSION CONTROL AND BMP NOTES ON SHT. C-2.
2. PROVIDE INLET PROTECTION AROUND PROPOSED DRYWELL, GDIs AND CULVERT INLETS. SEE LOCATION ON C-25 TO C-30, C-32 AND DETAIL ON SHEET C-35.
3. CONTRACTOR TO SALVAGE ANY GALVANIZED FENCE POST AND COORDINATE WITH WNCDC.

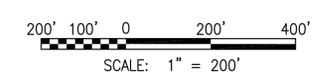
LEGEND:

	APPROX. CLEAR AND GRUB AREA BASE BID		APPROX. CLEAR AND GRUB AREA ADDITIVE ALTERNATE 1
	STABILIZED CONSTRUCTION ENTRANCE/EXIT SEE DET. SHT. C-35		APPROX. CLEAR AND GRUB AREA ADDITIVE ALTERNATE 2
	AC PAV'T REMOVAL		APPROX. CLEAR AND GRUB AREA ADDITIVE ALTERNATE 3
	FENCE OR GATE REMOVAL		APPROX. CLEAR AND GRUB AREA ADDITIVE ALTERNATE 4
	TEMPORARY SILT FENCE OR FILTER SOCK SEE DET. SHT. C-35		
	DUST FENCE SEE DET. SHT. C-35		
	EXIST. MAJOR CONTOUR		
	EXIST. MINOR CONTOUR		

EXISTING CONDITION, EROSION CONTROL AND DEMOLITION PLAN - 1

SCALE: 1" = 200'

GRAPHICAL SCALE:



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PUUKAPU, WAIMEA, SOUTH KOHALA, HAWAII ISLAND
OWNER AND DEVELOPER: DEPARTMENT OF HAWAIIAN HOME LANDS
MANAGED BY: DEPARTMENT OF AGRICULTURE
PROJECT NO. DOAH16
TAX MAP KEY: (3) 6-4-038-011 (POR.)

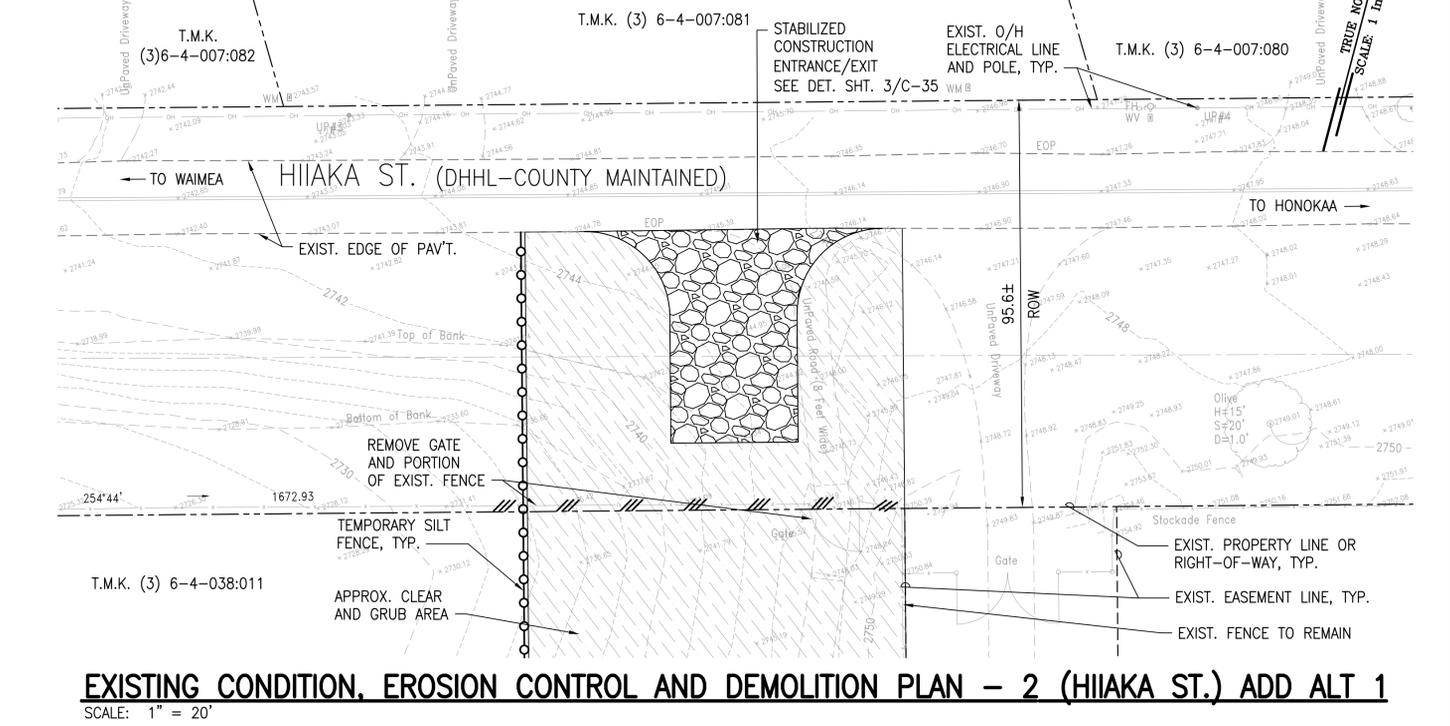
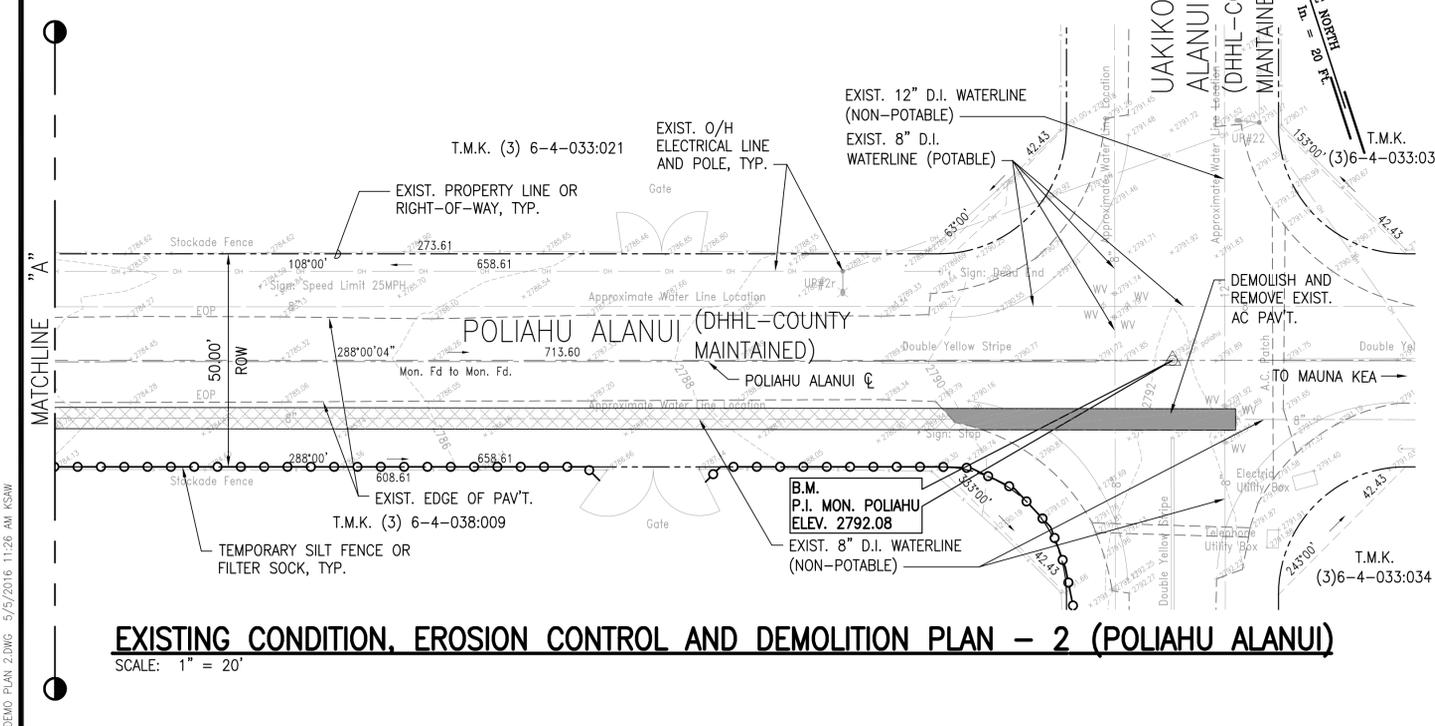
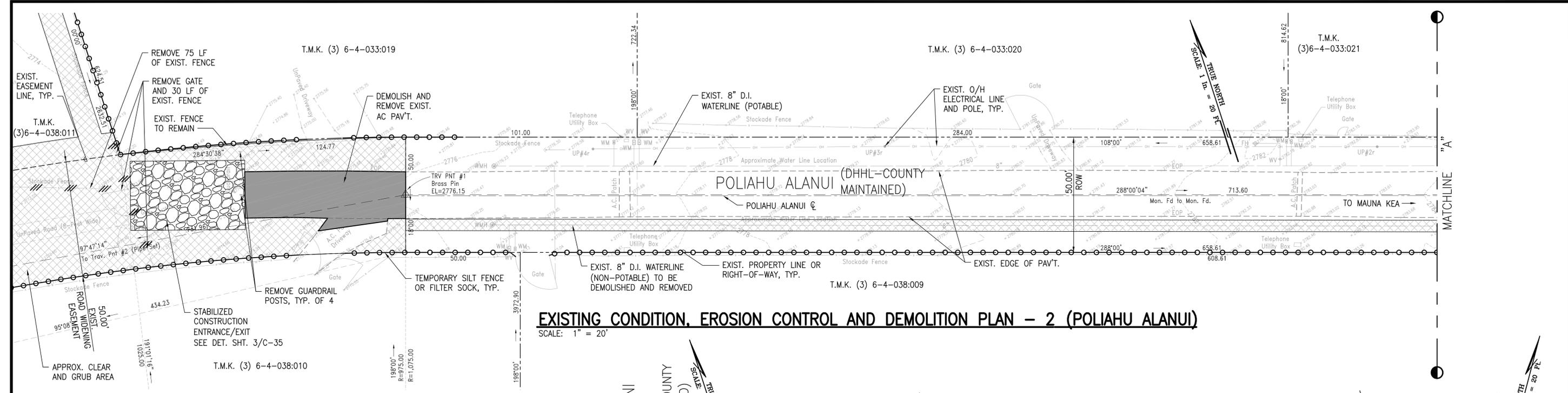
EXISTING CONDITION, EROSION CONTROL AND DEMOLITION PLAN - 1

DRAWN BY: KAS, MGC	ENGINEER: RM	CHECKED BY: AWD
APPROVED:		

DWG. NO. **C-4** SHEET 5 of 45 SHEETS

FILE	POCKET	FOLDER	NO.
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WA_CIVIL_3D_PROJECTS\2015_001_000_DA_WAIMEA_NUI_AGRIC_PARK\01_CIVIL_DRAWINGS\C-5_EC_DEMO_PLAN_2.DWG 5/5/2016 11:26 AM KSW



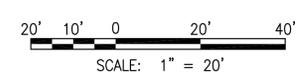
LEGEND:

-  APPROX. CLEAR AND GRUB AREA
-  APPROX. CLEAR AND GRUB AREA ADDITIVE ALTERNATE 1
-  STABILIZED CONSTRUCTION ENTRANCE/EXIT SEE DET. SHT. C-35
-  AC PAV'T REMOVAL
-  FENCE OR GATE REMOVAL
-  TEMPORARY SILT FENCE OR FILTER SOCK SEE DET. SHT. C-35
-  - - 2750 - - EXIST. MAJOR CONTOUR
-  - · - · 2752 - · EXIST. MINOR CONTOUR

NOTES:

1. SEE DEMOLITION, EROSION CONTROL AND BMP NOTES ON SHT. C-2.
2. SEE SURVEYOR'S NOTES ON SHT. C-4.

GRAPHICAL SCALE:



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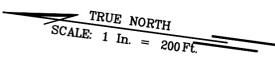
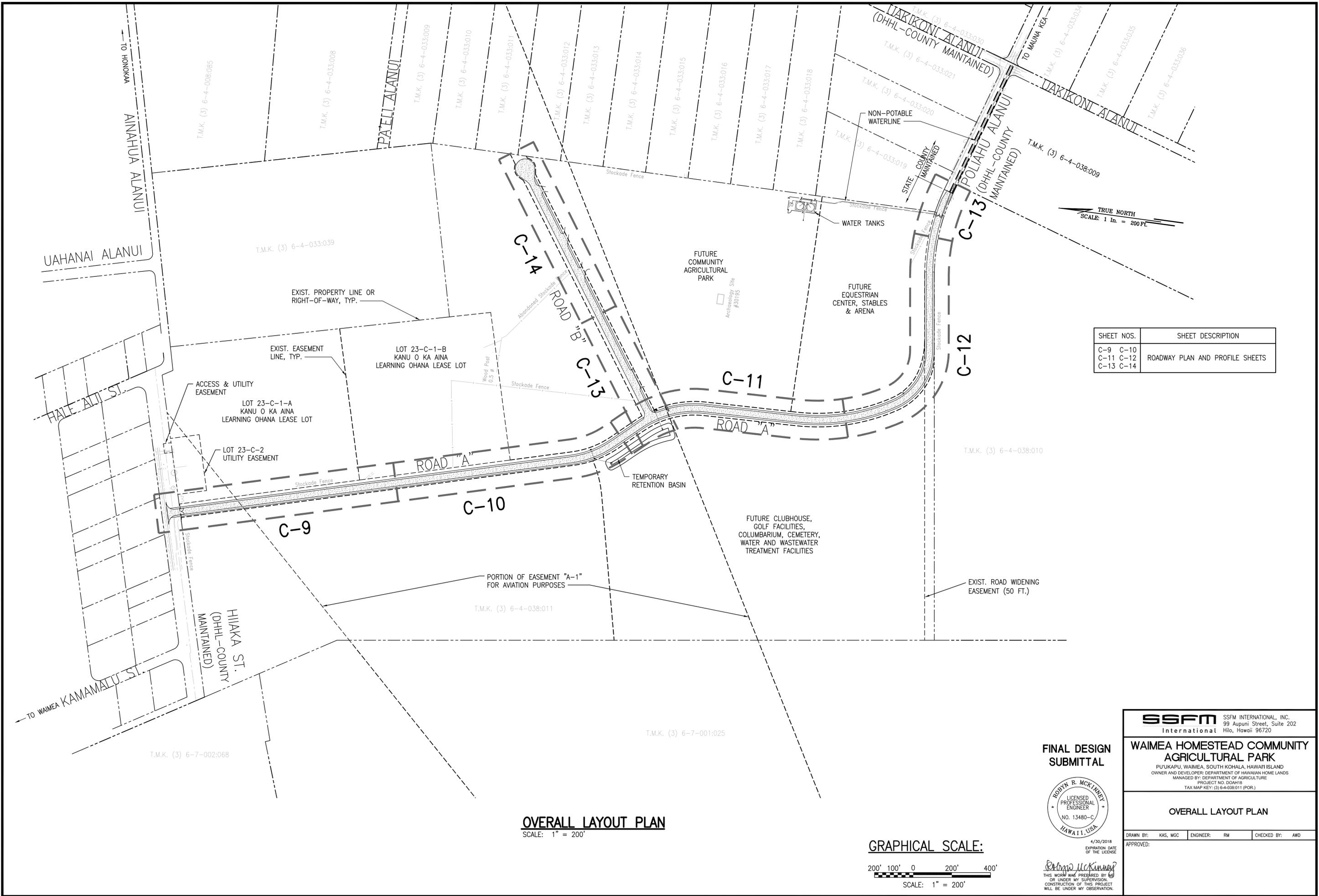
WAIMEA HOMESTEAD COMMUNITY AGRICULTURAL PARK
PUUKAPU, WAIMEA, SOUTH KOHALA, HAWAII ISLAND
OWNER AND DEVELOPER: DEPARTMENT OF HAWAIIAN HOME LANDS
MANAGED BY: DEPARTMENT OF AGRICULTURE
PROJECT NO. DOAH16
TAX MAP KEY: (3)6-4-038:011 (POR.)

EXISTING CONDITION, EROSION CONTROL AND DEMOLITION PLAN - 2

DRAWN BY: KAS, MGC ENGINEER: RM CHECKED BY: AND

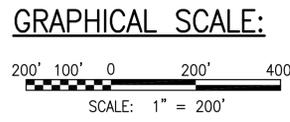
APPROVED:

\\NA_CIVIL_3D_PROJECTS\2015_071_000_DA_WAIMEA_NUI_AGR_PARK\01_CIVIL_DRAWINGS\C-5_OVERALL_LAYOUT_PLAN.DWG 5/5/2016 11:32 AM JANANA



SHEET NOS.	SHEET DESCRIPTION
C-9 C-10	ROADWAY PLAN AND PROFILE SHEETS
C-11 C-12	
C-13 C-14	

OVERALL LAYOUT PLAN
SCALE: 1" = 200'



**FINAL DESIGN
SUBMITTAL**



4/30/2018
EXPIRATION DATE
OF THE LICENSE
Robby McKinney
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CONSTRUCTION OF THIS PROJECT
WILL BE UNDER MY OBSERVATION.

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**WAIMEA HOMESTEAD COMMUNITY
AGRICULTURAL PARK**
PUUKAPU, WAIMEA, SOUTH KOHALA, HAWAII ISLAND
OWNER AND DEVELOPER: DEPARTMENT OF HAWAIIAN HOME LANDS
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OVERALL LAYOUT PLAN

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