

STATE OF HAWAII
DEPARTMENT OF HAWAIIAN HOME LANDS

Land Development Division

April 13, 2018

Date

ADDENDUM NO. 1
TO
INVITATION FOR BIDS

IFB-18-HHL-007
ANAHOLA FARM LOTS WATER PROJECT,
PHASE I – WATER LINE REPLACEMENT

Notice to All Prospective Offerors

This addendum is hereby made a part of the contract documents for IFB-18-HHL-007, and it shall amend the said contract documents as detailed within this Addendum document.

APPROVED:



Norman L. Sakamoto, Acting Administrator
Land Development Division
Department of Hawaiian Home Lands

Please execute and immediately return the receipt below to the Department of Hawaiian Home Lands via facsimile to: **(808) 620-9299, Mr. Stewart Matsunaga, Master-Planned Community Branch Manager, Land Development Division.**

Receipt of Addendum No. 1 for: IFB-18-HHL-007, is hereby acknowledged.

Print: _____
(Name)

(Title)

Name of Firm/Company

Date

ADDENDUM NO. 1

IFB NO.: IFB-18-HHL-007

**Anahola Farm Lots Water Project, Phase I – Water Line Replacement
Public Water System No. 432
Anahola, Kauai**

INCLUSIONS

This Addendum No. 1 shall incorporate the following amendments to IFB-18-HHL-007:

1. SECTION 3, PLANS: County Engineer, Department of Public Works, County of Kauai, approval signature on plan sheets T-1, T-2, T-3, C-1, C-2, C-3, C-4, C-5, C-6, C-7, C-8, C-9, C-10, C-11, C-12, C-13, C-14, DT-1, DT-5, TC-1, TC-2, TC-3.
2. SECTION 3, PLANS: Amend rating of gate valves from 150# to 200# on plan sheets C-5, C-6, C-7, C-8, C-9, C-10, C-11, C-12. A 200# rating signifies that the valve is rated for service at 200 psi working pressure.
3. SECTION 3, PLANS: Amend size of gate valves from 8-inch to 6-inch in profile view to match plan view on sheets C-9, C-11. Amend STA of gate valve in profile view on sheet C-9.

DRAWING NAME: I:\201705-DHLL-ANAHOLA-Phil_Water_System_Improvements\06_GRAPHICS\DRAWINGS\CONTRACT DOCUMENTS\06_ADDENDUM NO 1\PHASE I - WATERLINE\ EDIT TIME: 04-11-18, 12:37 PM EDITED BY: AKEANE

FINAL CONSTRUCTION PLANS FOR:

ANAHOLA FARM LOTS

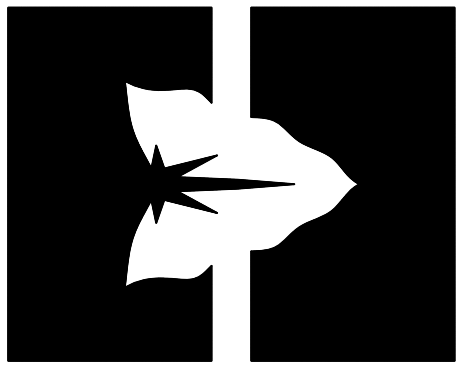
WATER PROJECT

PHASE I- WATER LINE REPLACEMENT

PUBLIC WATER SYSTEM NO. 432, ANAHOLA, ISLAND OF KAUAI

TMK: 4-8-005:016, 039; 4-8-018:011, 027 & 4-8-021:032

PREPARED FOR:

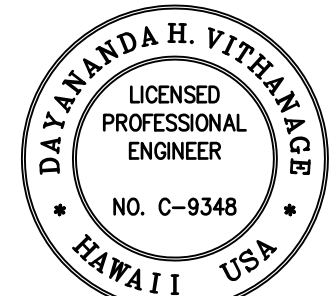


DEPARTMENT OF
HAWAIIAN HOME LANDS
91-5420 KAPOLEI PARKWAY
KAPOLEI, HAWAII 96707

PREPARED BY:



828 FORT STREET MALL, SUITE 600
HONOLULU, HAWAII 96813

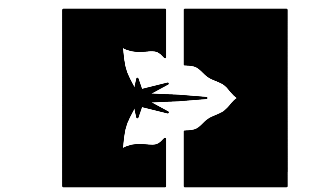


THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

Signature: *[Signature]* Date: *4/2/18*
Expiration Date of the License



DATE	REVISION	DESCRIPTION	MADE BY	APPROVED
4/13/18		ADDENDUM NO. 1 (DPW APPROVAL SIGNATURE)	JDM	



DEPARTMENT OF
HAWAIIAN HOME LANDS
915420 Kapolei Parkway
Kapolei, Hawaii 96707

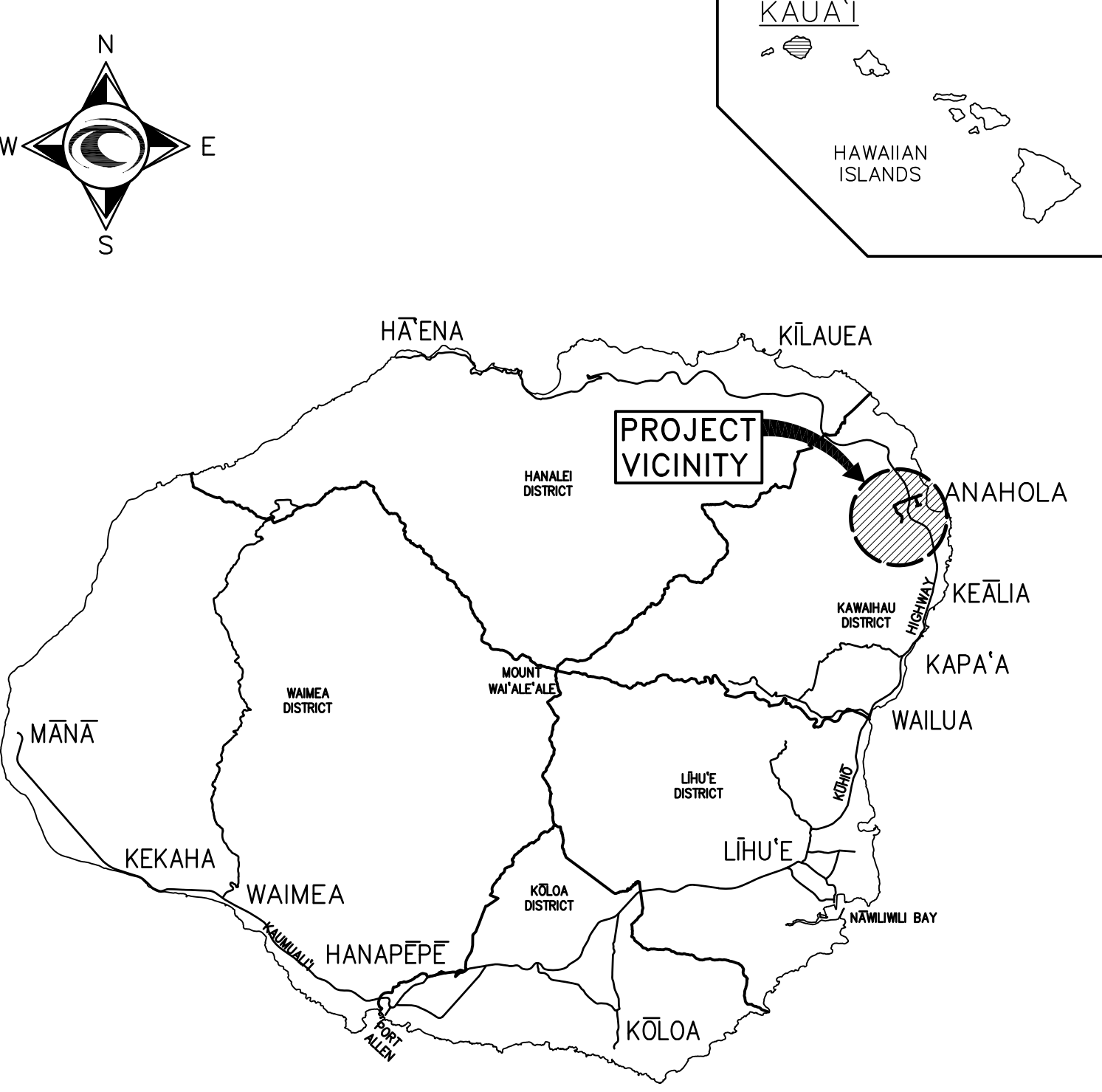
ANAHOLA
FARM LOTS

Water Line Replacement
Anahola, Island of Kauai
TMK:
4-8-005:039, 4-8-018:027
& 4-8-021:032

TITLE SHEET

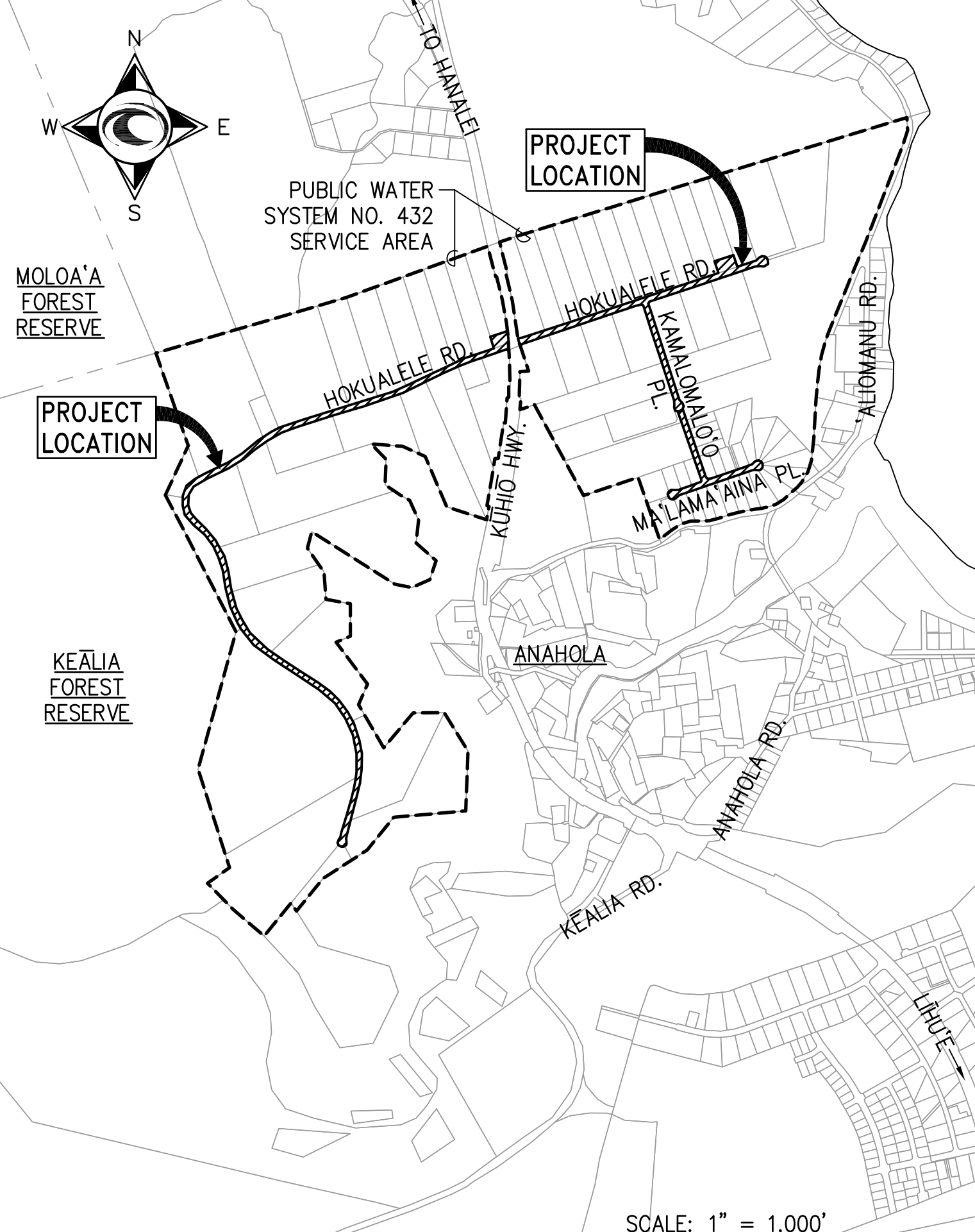
DESIGNED BY: AK
DRAWN BY: AK
CHECKED BY: JM
SURVEYED BY: PS
DATE: APR 2018
DRAWING NO. **T-1**
SHEET NO. 1 OF 30

VICINITY MAP



ISLAND OF KAUAI
NOT TO SCALE

LOCATION MAP



SHEET INDEX

DRAWING NUMBER	SHEET NUMBER	DESCRIPTION OF DRAWINGS
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T-4	4	NOTES
T-5	5	NOTES
T-6	6	ABBREVIATIONS & LEGEND
C-1	7	GENERAL SITE PLAN
C-2	8	EXISTING WATERLINE IMPROVEMENTS: KAMALOMALO'O PLACE & MA'LAMA AINA PLACE
C-3	9	EXISTING WATERLINE IMPROVEMENTS: HOKUALELE ROAD (WEST)
C-4	10	EXISTING WATERLINE IMPROVEMENTS: HOKUALELE ROAD (EAST)
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C-6	12	WATERLINE "A-1" PLAN & PROFILE STA. 11+00 TO STA. 22+00
C-7	13	WATERLINE "A-1" PLAN & PROFILE STA. 22+00 TO STA. 33+00
C-8	14	WATERLINE "A-1" PLAN & PROFILE STA. 33+00 TO STA. 43+30
C-9	15	WATERLINE "B-1" PLAN & PROFILE STA. 0+00 TO STA. 11+00
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APPROVED

CHAIRMAN, DEPARTMENT OF HAWAIIAN HOME LANDS
STATE OF HAWAII
DATE: 3/22/18

CHIEF, ENVIRONMENTAL MANAGEMENT DIVISION
DEPARTMENT OF HEALTH
STATE OF HAWAII
DATE: 3/22/18

COUNTY ENGINEER, DEPARTMENT OF PUBLIC WORKS
COUNTY OF KAUAI (FOR WORK WITHIN COUNTY MAINTAINED ROADS)
DATE: 4/2/18

FINAL PLANS: ANAHOLA FARM LOTS WATER PROJECT, PHASE I WATER LINE REPLACEMENT

DRAWING NAME: I:\201705-DHHL-ANAHOLA_PHIL_WATER_SYSTEM_IMPROVEMENTS\DRAWINGS\CONTRACT DOCUMENTS\06_ADDENDUM NO 1\PHASE I - WATERLINE\ EDIT TIME: 04-11-18, 11:36 AM EDITED BY: AKEANE

- NOTES FOR GENERAL CONSTRUCTION:

-

2. NO GRADING BETWEEN 7 P.M. TO 7 A.M. ON ANY GIVEN DAY OR ON SATURDAYS, SUNDAYS AND HOLIDAYS WITHOUT WRITTEN PERMISSION FROM THE COUNTY ENGINEER AND THE STATE DEPARTMENT OF HEALTH.
3. CONTRACTOR TO NOTIFY PUBLIC WORKS DEPARTMENT FIVE (5) BUSINESS DAYS PRIOR TO COMMENCING ANY GRADING WORK. WHEN COMPLETED AND READY FOR FINAL INSPECTION; NOTIFY PUBLIC WORKS DEPARTMENT INSPECTION SECTION.

- FOR ENTRY BY PERSONNEL, INCLUDING INSPECTORS, INTO A PERMIT REQUIRED
CONFINED SPACE AS DEFINED IN 29 CFR PART 1910.146(b), THE CONTRACTOR
SHALL BE RESPONSIBLE FOR PROVIDING:

-

- a. FULL BODY HARNESS FOR UP TO TWO PERSONNEL.
- b. LIFELINE AND ASSOCIATED CLIPS.
- c. INGRESS/EGRESS AND FALL PROTECTION.
- d. TWO-WAY RADIOS (WALKIE-TALKIES) IF OUT OF LINE-OF-SIGHT.
- e. EMERGENCY (ESCAPE) RESPIRATOR (10 MINUTE DURATION).
- f. CELLULAR TELEPHONE TO CALL FOR EMERGENCY ASSISTANCE.
- g. CONTINUOUS GAS DETECTOR (CALIBRATED) TO MEASURE OXYGEN, HYDROGEN SULFIDE, CARBON MONOXIDE AND FLAMMABLES (CAPABLE OF MONITORING AT A DISTANCE AT LEAST 20-FEET AWAY).
- h. PERSONAL MULTI-GAS DETECTOR TO BE CARRIED BY INSPECTOR.

II. CONTINUOUS FORCED AIR VENTILATION ADEQUATE TO PROVIDE SAFE ENTRY CONDITIONS.

III. ONE ATTENDANT/RESCUE PERSONNEL TOPSIDE (TWO, IF CONDITIONS WARRANT IT).

18. PURSUANT TO CHAPTER 6E, HRS, IN THE EVENT ANY ARTIFACTS OR HUMAN REMAINS ARE UNCOVERED DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL IMMEDIATELY SUSPEND WORK AND NOTIFY THE KAUAI POLICE DEPARTMENT, AND THE STATE DEPARTMENT OF LAND AND NATURAL RESOURCES—HISTORIC PRESERVATION DIVISION (692-8015).

1. ALL DAMAGED PAVEMENT SHALL BE RESTORED TO ITS ORIGINAL CONDITION IN ACCORDANCE WITH THE "HAWAII STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (2005)" AND ITS AMENDMENTS AND THE "STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION, SEPTEMBER 1984," AS AMENDED BY THE DEPARTMENT OF PUBLIC WORKS, CITY AND COUNTY OF HONOLULU, AND THE COUNTIES OF KAUAI, MAUI, AND HAWAII, WITH 2" MINIMUM HOT MIXED ASPHALT CONCRETE PAVEMENT (STATE DESIGN MIX V) AND 8" MINIMUM BASE COURSE.
2. THE CONTRACTOR SHALL PROVIDE, INSTALL, MAINTAIN ALL NECESSARY SIGNS, LIGHTS, FLARES, BARRICADES, MARKERS, CONES AND OTHER PROTECTIVE FACILITIES AND SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION AND FOR THE CONVENIENCE AND SAFETY OF THE PUBLIC TRAFFIC. ALL SUCH PROTECTIVE FACILITIES AND PRECAUTIONS TO BE TAKEN SHALL CONFORM WITH THE RULES AND REGULATIONS GOVERNING THE USE OF TRAFFIC CONTROL DEVICES AT WORK SITES ON OR ADJACENT TO PUBLIC STREETS AND HIGHWAYS ADOPTED BY THE HIGHWAY SAFETY COORDINATOR AND U.S. FEDERAL HIGHWAY ADMINISTRATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS DATED 2009 AND ITS AMENDMENTS.
3. THE CONTRACTOR SHALL, WHENEVER NECESSARY, PROPERLY SHEET AND BRACE ALL EXCAVATIONS TO RENDER IT SECURE AND SHALL REMOVE ALL SUCH SHEETING AND BRACING BEFORE COMPLETION OF THE BACKFILL FOR WATER MAINS. THE MINIMUM COVER REQUIREMENTS (FROM TOP OF PIPE TO FINISHED GRADE OVER PIPE) IS THREE (3) FEET.

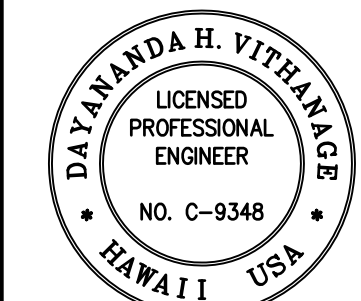
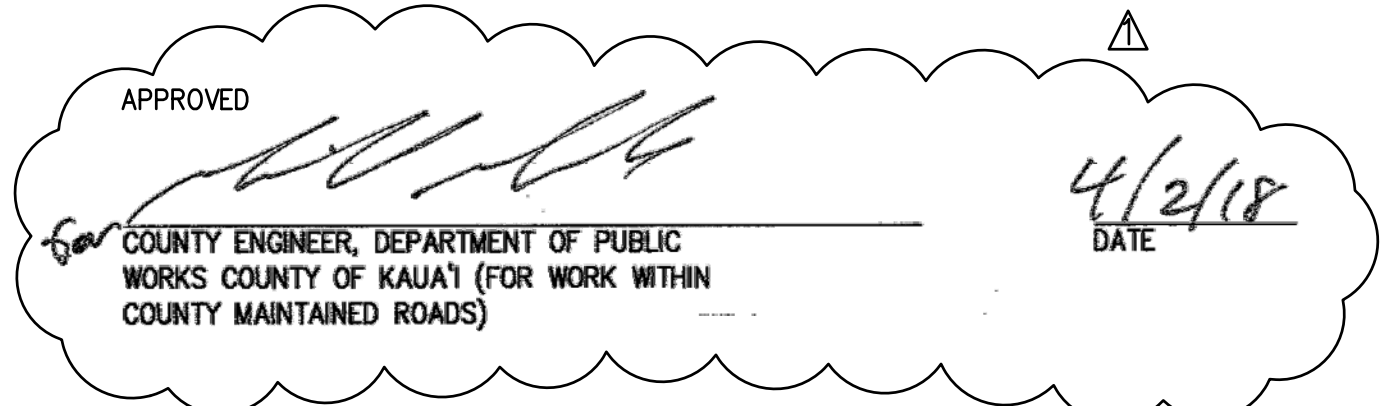
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LICENSED LAND SURVEYOR'S DIRECTION. COPIES OF FIELD NOTES, DESCRIPTIONS AND NEW VALUES OF THE NEW BENCHMARK SHALL BE SENT TO THE DEPARTMENT OF PUBLIC WORKS SURVEY SECTION FOR REVIEW AND APPROVAL PRIOR TO FINAL ACCEPTANCE OF THE PROJECT.

9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OVERTIME OR NIGHT WORK PAYMENTS FOR COUNTY'S STAFF AND INSPECTION PERSONNEL INCLUDING CONSULTANTS WHEN THE CONTRACT REQUIRES OVERTIME OR NIGHT WORK TO BE PERFORMED, OR DIRECTS THE CONTRACTOR TO WORK ADDITIONAL SHIFTS OR OVERTIME FOR COUNTY'S CONVENIENCE.

1. TRENCH REPAVING SHALL BE A MINIMUM 8-INCHES THICK BASE COURSE AND 2-INCHES MINIMUM ASPHALT CONCRETE (STATE MIX V). IF THE EXISTING PAVEMENT STRUCTURE IS GREATER IN THICKNESS AND QUALITY, THE REPAVING SHALL MATCH THE EXISTING PAVEMENT STRUCTURE.
2. PAVEMENT RESURFACING WORK SHALL INCLUDE 2-INCH THICKNESS OF EXISTING A.C. TO BE COLD PLANED AND CONSTRUCTION OF A MINIMUM OF 2-INCH OF NEW A.C. (STATE MIX V) LAYER.
3. ROAD RESTORATION FOR TRENCHES ALIGNED ALONG THE LONGITUDINAL DIRECTION SHALL INCLUDE PAVEMENT RESURFACING AS FOLLOWS:
 - A. ROADS WITH PAVEMENT WIDTHS OF LESS THAN 12 FEET WIDE SHALL BE REPAVED THE ENTIRE WIDTH.
 - B. ROADWAYS BETWEEN 12 AND 28 FEET WIDE WITH NO STRIPING SHALL BE PAVED FOR HALF OF THE ROADWAY.
 - C. ROADWAYS WITH NO STRIPING AND PAVEMENT WIDTHS GREATER THAN 28 FEET SHALL HAVE A 12-FOOT WIDE TRAVEL WAY RESURFACED.
4. ROAD RESTORATION FOR TRENCHES ALIGNED PERPENDICULAR TO THE ROADWAY SHALL INCLUDE ROAD RESURFACING FOR A MINIMUM OF 6 FEET BEYOND THE TRENCH EDGES.
5. THE ENTIRE ROAD INTERSECTION SHALL BE RESURFACED WHEREVER TRENCH REPAVING IS REQUIRED WITHIN ANY PORTION OF AN INTERSECTION. THE LIMITS OF RESURFACING SHALL BE THE CURVE RETURNS OF THE ROADWAYS OF THE INTERSECTIONS.
6. ALL EXISTING PAVEMENT STRIPING DISTURBED BY THIS PRODUCT SHALL BE RESTORED. THE STRIPING MATERIALS SHALL BE THERMOPLASTIC TAPE OR THERMOPLASTIC EXTRUSION. PAINTING IS NOT ACCEPTABLE.
7. THE LIMITS OF ROAD RESTORATION WORK MAY BE REVISED BY THE ENGINEERING DIVISION OF THE COUNTY DEPARTMENT OF PUBLIC WORKS DURING PROCESSING OF ROAD PERMITS FOR THIS PROJECT.

1. SHOULD HISTORIC REMAINS SUCH AS ARTIFACTS, BURIALS, CONCENTRATIONS OF SHELL OR CHARCOAL BE ENCOUNTERED DURING CONSTRUCTION ACTIVITIES, WORK SHALL CEASE IMMEDIATELY IN THE IMMEDIATE VICINITY OF THE FIND, AND THE FIND SHALL BE PROTECTED FROM FURTHER DAMAGE. THE CONTRACTOR SHALL CORDON OFF THE AREA AND IMMEDIATELY NOTIFY THE PLANNING DEPARTMENT AT (808) 241-4050 AND THE STATE HISTORIC PRESERVATION DIVISION AT (808) 692-8015, WHO WILL ASSESS THE SIGNIFICANCE OF THE FIND AND RECOMMEND THE APPROPRIATE MITIGATION MEASURES, IF NECESSARY. IN ADDITION IF HUMAN BURIALS ARE FOUND, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE COUNTY OF KAUAI POLICE DEPARTMENT.



THIS WORK WAS PREPARED BY ME OR UNDER
SUPERVISION AND CONSTRUCTION OF THIS
PROJECT WILL BE UNDER MY OBSERVATION.

Signature [Signature] Expiration Date 4/30/20
of the License

[illegible]DEPARTMENT OF
HAWAIIAN HOME LANDS

915420 Kapolei Parkway
Kapolei, Hawai'i 96707

ANAHOLA FARM LOTS

Water Line Replacement Anahola, Island of Kaua'i

TMK:
4-8-005:039, 4-8-018:027
& 4-8-021:032

NOTES

DESIGNED BY: JM
DRAWN BY: GT

CHECKED BY: <u>JM</u>	
SURVEYED BY: <u>PS</u>	DATE: <u>APR. 2018</u>

SHEET NO. 2 OF 30

DRAWING NAME: I:\201705-DHHL-ANAHOLA_PHIL_WATER_SYSTEM_IMPROVEMENTS\06_ADDENDUM NO 1\PHASE I - WATERLINE\ EDIT TIME: 04-11-18, 11:37 AM EDITED BY: AKEANE

- A. THE CONTRACTOR IS REMINDED OF THE REQUIREMENTS OF SECTION 209-WATER POLLUTION AND EROSION CONTROL AND SECTION 620-DUST CONTROL IN THE "HAWAII STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" 2005 AS AMENDED. SECTION 209 DESCRIBES BUT IS NOT LIMITED TO: SUBMITTAL REQUIREMENTS; SCHEDULING OF A WATER POLLUTION AND EROSION CONTROL CONFERENCE WITH THE COUNTY; CONSTRUCTION REQUIREMENTS; METHOD OF MEASUREMENT; AND BASIS OF PAYMENT. NO WORK SHALL COMMENCE WITHOUT A BMP PLAN APPROVED BY THE DEPARTMENT OF HEALTH.
- B. THE CONTRACTOR SHALL FOLLOW THE GUIDELINES IN THE "INTERIM BEST MANAGEMENT PRACTICES MANUAL FOR CONSTRUCTION SITES FOR COUNTY OF KAUAI" APRIL 2004 IN DEVELOPING, INSTALLING AND MAINTAINING THE BEST MANAGEMENT PRACTICES (BMPs) FOR THE PROJECT. THE CONTRACTOR MAY SUBMIT ALTERNATE METHODS TO THE COUNTY FOR ACCEPTANCE.
- C. THE CONTRACTOR SHALL KEEP A COPY OF THE APPROVED BMP PLAN, NOI, ETC. ON THE PROJECT SITE. THE BMP PLAN SHALL BE UPDATED TO REFLECT ANY CHANGES MADE DURING THE COURSE OF CONSTRUCTION FOR THE DURATION OF THE PROJECT.
- D. THE OFFICER-IN-CHARGE MAY ASSESS LIQUIDATED DAMAGES OF UP TO \$27,500 FOR NONCOMPLIANCE OF EACH BMP REQUIREMENT AND EACH REQUIREMENT STATED IN SECTION 209, FOR EVERY DAY OF NON-COMPLIANCE. THERE IS NO MAXIMUM LIMIT ON THE AMOUNT ASSESSED PER DAY.
- E. THE OFFICER-IN-CHARGE MAY DEDUCT THE COST FROM THE PROGRESS PAYMENT FOR ALL CITATIONS RECEIVED BY THE DEPARTMENT FOR NON COMPLIANCE, OR THE CONTRACTOR/OWNER SHALL REIMBURSE THE STATE, AND/OR COUNTY FOR THE FULL AMOUNT OF THE OUTSTANDING COST INCURRED BY THE STATE AND/OR COUNTY.

A. WASTE MATERIALS: ALL WASTE MATERIALS SHALL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER THAT DOES NOT LEAK. THE DUMPSTER SHALL MEET ALL LOCAL AND STATE SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE SHALL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER SHALL BE EMPTIED A MINIMUM OF TWICE PER WEEK OR AS OFTEN AS IS DEEMED NECESSARY. NO CONSTRUCTION WASTE MATERIALS SHALL BE BURIED ONSITE. THE CONTRACTOR'S SUPERVISORY PERSONNEL SHALL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. NOTICES STATING THESE PRACTICES SHALL BE POSTED IN THE OFFICE TRAILER AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

B. HAZARDOUS WASTE: ALL HAZARDOUS WASTE MATERIAL SHALL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATIONS OR 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.

- A. ALL CONTROL MEASURES SHALL BE INSPECTED AT LEAST ONCE EACH WEEK AND WITHIN 24 HOURS FOLLOWING ANY RAINFALL EVENT OF 0.5 INCHES OR GREATER.
- B. ALL MEASURES SHALL BE MAINTAINED IN GOOD WORKING ORDER. IF REPAIR IS NECESSARY, IT SHALL BE INITIATED WITHIN 24 HOURS AFTER THE INSPECTION.
- C. BUILT UP SEDIMENT SHALL BE REMOVED FROM SILT FENCE, WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE FENCE.
- D. SILT SCREEN OR FENCE SHALL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, TO VERIFY THAT THE FABRIC FENCE IS SECURELY ATTACHED TO THE FENCE POST OR CONCRETE SLAB AND TO VERIFY THAT THE FENCE POST ARE FIRMLY IN THE GROUND.
- E. TEMPORARY AND PERMANENT SEEDING AND PLANTING SHALL BE INSPECTED FOR BARE SPOTS, WASH OUTS AND HEALTHY GROWTH.
- F. THE CONTRACTOR SHALL SUBMIT TO THE COUNTY A MAINTENANCE INSPECTION REPORT PROMPTLY AFTER EACH WEEKLY INSPECTION.
- G. THE CONTRACTOR SHALL SELECT A MINIMUM OF THREE PERSONNEL WHO SHALL BE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES AND FILLING OUT THE INSPECTION AND MAINTENANCE REPORT.
- H. 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 CONDITIONS.
- I. ALL SLOPES AND EXPOSED AREAS SHALL BE GRASSED AS FINAL GRADES HAVE BEEN ESTABLISHED, GRADING TO FINAL GRADE SHALL BE CONTINUOUS, AND ANY AREA IN WHICH WORK HAS BEEN INTERRUPTED OR DELAYED OR EXPOSED FOR MORE THAN 15 DAYS SHALL BE GRASSED IN ORDER TO PREVENT DUST EMISSION, EROSION AND SILT RUNOFF. AREAS WITH IMPORTED SOILS SHALL BE GRASSED NOT MORE THAN 5 WORKING DAYS AFTER THE FINAL GRADES HAVE BEEN ESTABLISHED.
- J. TEMPORARY EROSION CONTROLS SHALL NOT BE REMOVED BEFORE PERMANENT EROSION CONTROLS ARE IN PLACE AND ESTABLISHED.

a. 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 OF THE CONSTRUCTION CONTRACTOR'S SITE-SPECIFIC BMP PLAN.

CONCRETE DETERGENTS PRODUCTS	FERTILIZERS PETROLEUM BASED
PAINTS (ENAMEL AND LATEX)	CLEANING SOLVENTS
METAL STUDS	WOOD
TAR	MASONRY BLOCK

- c. MATERIAL MANAGEMENT SHALL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF. AN EFFORT SHALL BE MADE TO STORE ONLY ENOUGH PRODUCTS AS IS REQUIRED TO DO THE JOB.
- c. ALL MATERIALS STORED ONSITE SHALL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND IF POSSIBLE UNDER A ROOF OR OTHER ENCLOSURE.
- d. PRODUCTS SHALL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL.
- e. SUBSTANCES SHALL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.
- f. A PRODUCT SHALL BE USED UP COMPLETELY BEFORE DISPOSING OF THE CONTAINER.
- g. MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL SHALL BE FOLLOWED.
- h. THE CONTRACTOR SHALL CONDUCT A DAILY INSPECTION TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS ONSITE.

- a. PRODUCTS SHALL BE KEPT IN THEIR ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE.
- b. ORIGINAL LABELS AND MATERIALS SAFETY DATA SHEETS (MSDS) SHALL BE RETAINED AND MADE AVAILABLE TO THE COUNTY UPON REQUEST.
- c. SURPLUS PRODUCTS SHALL BE DISPOSED OF ACCORDING TO MANUFACTURER'S INSTRUCTIONS OR LOCAL AND STATE RECOMMENDED REGULATIONS.

THE FOLLOWING PRODUCT SPECIFIC PRACTICES SHALL BE FOLLOWED ONSITE:

- c. PETROLEUM BASED PRODUCTS: ALL ONSITE VEHICLES SHALL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS SHALL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ONSITE SHALL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATION.
- b. FERTILIZERS: APPLY FERTILIZER USED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, WORK FERTILIZER INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE SHALL BE IN A COVERED SHED.
- c. PAINTS: SEAL AND STORE ALL CONTAINERS WHEN NOT REQUIRED FOR USE. DO NOT DISCHARGE EXCESS PAINT TO THE ROADWAY DRAINAGE SYSTEM. DISPOSE PROPERLY ACCORDING TO MANUFACTURER'S INSTRUCTION OR STATE AND LOCAL REGULATIONS.
- d. CONCRETE TRUCKS: WASH OUT OR DISCHARGE CONCRETE TRUCK DRUM WASH WATER ONLY AT A DESIGNATED SITE. DO NOT DISCHARGE WATER IN ROADWAY DRAINAGE SYSTEM OR WATERS OF THE UNITED STATES. CONTACT DRINKING WATER BRANCH, DEPARTMENT OF HEALTH AT (808)586-4258 TO RECEIVE PERMISSION TO DESIGNATE A DISPOSAL SITE. CLEAN DISPOSAL SITE AS REQUIRED OR AS REQUESTED BY THE OWNER'S REPRESENTATIVE.

- a. POST A SPILL PREVENTION PLAN TO INCLUDE MEASURES TO PREVENT AND CLEAN UP EACH SPILLWAY.
- b. 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 AND IN THE OFFICE TRAILER ONSITE.
- c. CLEARLY POST MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP. MAKE SITE PERSONNEL AWARE OF THE PROCEDURES AND THE LOCATION OF INFORMATION AND CLEANUP SUPPLIES.
- d. KEEP MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP IN THE MATERIAL STORAGE AREA ONSITE.
- e. CLEANUP ALL SPILLS IMMEDIATELY AFTER DISCOVERY.

f. KEEP THE SPILL AREA WELL VENTILATED. PERSONNEL SHALL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH HAZARDOUS SUBSTANCE.

- g. REPORT SPILLS OF TOXIC HAZARDOUS MATERIAL TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE.
5. NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) REQUIREMENTS:
- A. THE CONTRACTOR SHALL APPLY FOR, OBTAIN AND COMPLY WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) REQUIREMENTS FOR KAUAI DISTRICT PERMIT PROJECTS. THIS IS AVAILABLE AT THE KAUAI DISTRICT OFFICE AT 3040 UMI STREET, SUITE 205. DUE TO POTENTIAL COST IMPACTS, THE CONTRACTOR NEEDS TO BE AWARE OF THESE REQUIREMENTS.
- B. THE CONTRACTOR SHALL OBTAIN AND COMPLY WITH NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT REQUIREMENTS FOR ALL PROJECTS WHICH WILL DISTURB ONE (1) ACRE OR MORE OF LAND. THE CONTRACTOR SHALL NOT START CONSTRUCTION UNTIL NOTICE OF GENERAL PERMIT COVERAGE (NGPC) IS RECEIVED FROM THE DEPARTMENT OF HEALTH, STATE OF HAWAII AND HAS SATISFIED ANY OTHER APPLICABLE REQUIREMENTS OF THE NPDES PERMIT PROGRAM.
- C. THE CONTRACTOR SHALL COMPLETE AND SUBMIT A CONTRACTOR'S CERTIFICATION OF NPDES COMPLIANCE, INCLUDING COMPLETION OF THE BEST MANAGEMENT PRACTICE (BMP) CHECKLIST AND SUBMITTAL OF A WRITTEN BMP PLAN AND DRAWINGS, PRIOR TO ISSUANCE OF THE PERMIT TO PERFORM WORK UPON COUNTY ROADWAYS.

1. CONTRACTOR SHALL OBSERVE AND COMPLY WITH ALL FEDERAL, STATE, AND LOCAL LAWS REQUIRED FOR THE PROTECTION OF PUBLIC HEALTH, SAFETY AND ENVIRONMENTAL QUALITY.

2. THE CONTRACTOR AT HIS/HER EXPENSE, SHALL KEEP THE PROJECT AREA AND SURROUNDING AREA FREE FROM RUBBISH, DUST, NOISE, EROSION, ETC. THE WORK SHALL BE DONE IN CONFORMANCE WITH THE AIR AND WATER POLLUTION CONTROL STANDARDS AND REGULATIONS OF THE STATE DEPARTMENT OF HEALTH.
3. NO CONTRACTOR SHALL PERFORM ANY CONSTRUCTION OPERATION SO AS TO CAUSE FALLING ROCKS, SILT OR DEBRIS IN ANY FORM TO FALL, SLIDE OR FLOW ONTO ADJOINING PROPERTIES, STREETS OR NATURAL WATERCOURSES. SHOULD SUCH VIOLATION OCCUR, THE CONTRACTOR SHALL IMMEDIATELY MAKE ALL REMEDIAL ACTIONS AS NECESSARY AND THE COSTS INCURRED FOR ANY REMEDIAL ACTION SHALL BE PAYABLE BY THE CONTRACTOR.
4. THE CONTRACTOR'S ATTENTION IS DIRECTED TO CHAPTER 46, PUBLIC HEALTH REGULATIONS, DEPARTMENT OF HEALTH, STATE OF HAWAII, "COMMUNITY NOISE CONTROL," IN WHICH MAXIMUM PERMISSIBLE NOISE LEVELS HAVE BEEN SET. IF THE CONSTRUCTION WORK REQUIRES A PERMIT FROM THE DIRECTOR OF HEALTH, THE CONTRACTOR SHALL OBTAIN A COPY OF CHAPTER 46 AND BECOME FAMILIAR WITH THE NOISE LEVEL RESTRICTIONS AND THE PROCEDURES FOR OBTAINING A PERMIT FOR THE CONSTRUCTION ACTIVITIES. APPLICATION AND INFORMATION ON VARIANCES ARE AVAILABLE FROM THE ENVIRONMENTAL HEALTH SERVICES DIVISION, 1250 PUNCHBOWL ST., HONOLULU, HI 96813 OR BY TELEPHONE (586-4700).
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFORMANCE WITH THE APPLICABLE PROVISIONS OF CHAPTER 54, WATER QUALITY STANDARDS, AND CHAPTER 55, WATER POLLUTION CONTROL, OF TITLE 11, ADMINISTRATIVE RULES OF THE STATE DEPARTMENT OF HEALTH. THE CONTRACTOR SHALL CONFORM TO THE REQUIREMENTS OF THE BEST MANAGEMENT PRACTICES (BMP) PLAN FOR THE PROJECT.

1. IN ACCORDANCE WITH CHAPTER 11-60.1, AIR POLLUTION CONTROL, TITLE 11, HAWAII ADMINISTRATIVE RULES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT EFFECTIVE CONTROL MEASURES ARE PROVIDED TO MINIMIZE OR PREVENT ANY VISIBLE DUST EMISSION CAUSED BY THE CONSTRUCTION WORK FROM IMPACTING THE SURROUNDING AREAS INCLUDING THE OFF-SITE ROADWAYS USED TO ENTER/EXIT THE PROJECT. THESE MEASURES INCLUDE BUT ARE NOT LIMITED TO THE USE OF WATER WAGONS, SPRINKLER SYSTEM, DUST FENCES, ETC.

2. IN ACCORDANCE WITH CHAPTER 11-55, WATER POLLUTION CONTROL AND CHAPTER 11-54, WATER QUALITY STANDARDS, TITLE 11, HAWAII ADMINISTRATIVE RULES, THE PROPERTY OWNER/DEVELOPER SHALL BE RESPONSIBLE FOR ENSURING THAT THE BEST MANAGEMENT PRACTICES (BMP) TO MINIMIZE OR PREVENT THE DISCHARGE OF SEDIMENTS, DEBRIS AND OTHER WATER POLLUTANT INTO STATE WATERS IS PROVIDED AT ALL TIMES.
3. IN ACCORDANCE WITH CHAPTER 11-58, SOLID WASTE MANAGEMENT CONTROL, TITLE 11, HAWAII ADMINISTRATIVE RULES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT CRUB MATERIAL, DEMOLITION WASTE AND CONSTRUCTION WASTE GENERATED BY THE PROJECT ARE DISPOSED OF IN A MANNER OR AT A SITE APPROVED BY THE STATE DEPARTMENT OF HEALTH. DISPOSAL OF ANY OF THESE WASTES BY BURNING IS PROHIBITED.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL APPLICABLE PERMITS FROM THE DEPARTMENT OF HEALTH INCLUDING BUT NOT LIMITED TO NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES), NOTICE OF INTENT AND GENERAL PERMIT FOR STORM WATER, HYDROSTATIC TEST AND DEWATERING DISCHARGES PRIOR TO COMMENCING CONSTRUCTION. NPDES PERMIT SHALL BE REQUIRED PRIOR TO GRADING OR GRUBBING WORK OVER AN AREA OF ONE ACRE OR MORE.
5. AFTER EACH RAINFALL EVENT, THE CONTRACTOR SHALL REMOVE ALL SILT AND DEBRIS RESULTING FROM THIS WORK AND DEPOSITED IN DRAINAGE FACILITIES, ROADWAYS AND OTHER AREAS. THE COST INCURRED FOR ANY NECESSARY REMEDIAL ACTION BY THE ENGINEER SHALL BE PAYABLE BY THE CONTRACTOR.
6. BEST MANAGEMENT PRACTICES (BMP'S) SHALL BE EMPLOYED AT ALL TIMES TO THE MAXIMUM EXTENT PRACTICABLE TO PREVENT DAMAGE BY SEDIMENTATION, EROSION OR DUST TO STREAMS, WATER COURSES, NATURAL AREAS AND THE PROPERTY OF OTHERS.
7. THE CONTRACTOR SHALL OBTAIN AND COMPLY WITH NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT REQUIREMENTS FOR ALL PROJECTS WHICH WILL DISTURB ONE (1) ACRE OR MORE OF LAND. THE CONTRACTOR SHALL NOT START CONSTRUCTION UNTIL NOTICE OF GENERAL PERMIT COVERAGE (NGPC) IS RECEIVED FROM THE DEPARTMENT OF HEALTH, STATE OF HAWAII AND HAS SATISFIED ANY OTHER PERMITTING REQUIREMENTS OF THE NPDES PERMIT PROGRAM.
8. IN ACCORDANCE WITH CHAPTER 11-46, COMMUNITY NOISE, HAWAII ADMINISTRATIVE RULES, THE CONTRACTOR AND THE PROPERTY OWNER/DEVELOPER SHALL BE RESPONSIBLE FOR PROVIDING EFFECTIVE CONTROL MEASURES TO MINIMIZE OR PREVENT CONSTRUCTION RELATED NOISE FROM IMPACTING THE RESIDENTS IN THE IMMEDIATE AREA. IF REQUIRED, NOISE REDUCTION MEASURES SHALL BE IMPLEMENTED BY THE CONTRACTOR DURING THE CONSTRUCTION WORK.
9. THE PROPERTY MAY HARBOR RODENTS WHICH WILL BE DISPERSED TO THE SURROUNDING AREAS WHEN THE SITE IS CLEARED. IN ACCORDANCE WITH CHAPTER 11-26, ENTITLED VECTOR CONTROL OF TITLE 11, HAR, THE APPLICANT SHALL ASCERTAIN THE PRESENCE OR ABSENCE OF RODENTS ON THE PROPERTY. SHOULD THE PRESENCE OF RODENTS BE DETERMINED, THE APPLICANT SHALL ERADICATE THE RODENTS PRIOR TO CLEARING THE SITE.
10. A COPY OF THE PLANS, CONSTRUCTION SCHEDULE AND/OR WRITTEN MEASURES THAT IS REQUIRED TO BE SUBMITTED BY THE CONTRACTOR (DUST CONTROL MEASURES/PLANS) SHOULD ALSO BE SENT TO THE DEPARTMENT OF HEALTH FOR MONITORING PURPOSES.

COUNTY ENGINEER, DEPARTMENT OF PUBLIC
WORKS COUNTY OF KAUAI (FOR WORK WITHIN
COUNTY MAINTAINED ROADS)

DATE _____

Signature _____ Expiration Date _____
of the License _____

[illegible]DEPARTMENT OF
HAWAIIAN HOME LANDS

915420 Kapolei Parkway
Kapolei, Hawai'i 96707

ANAHOLA FARM LOTS

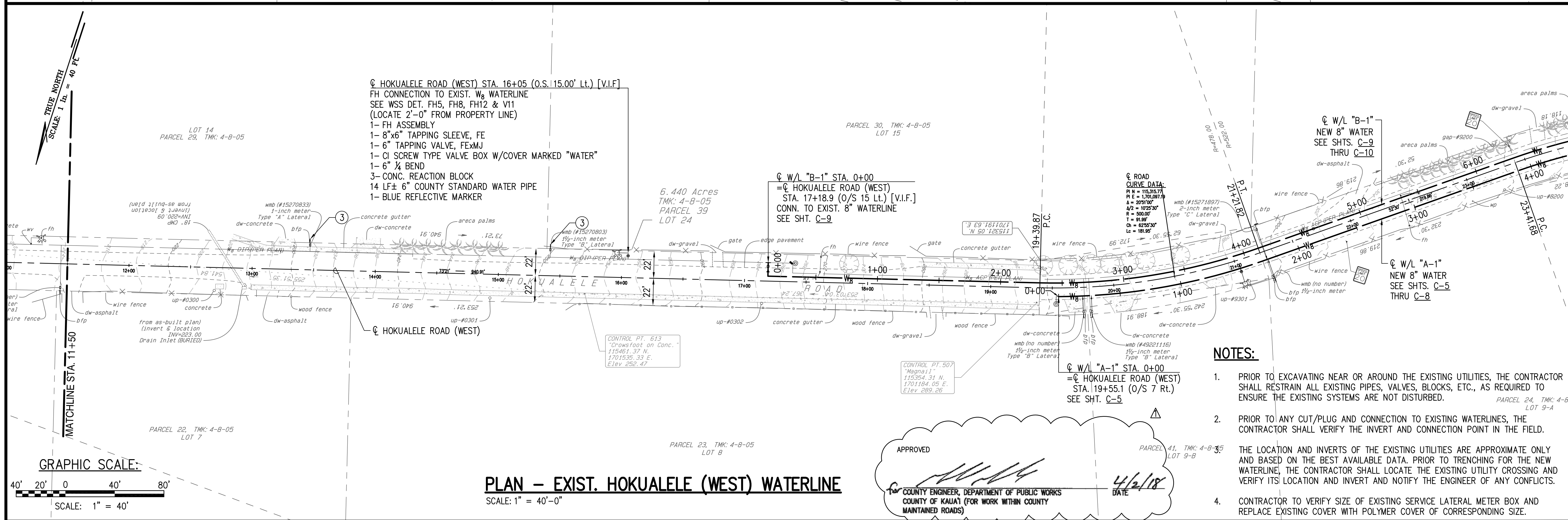
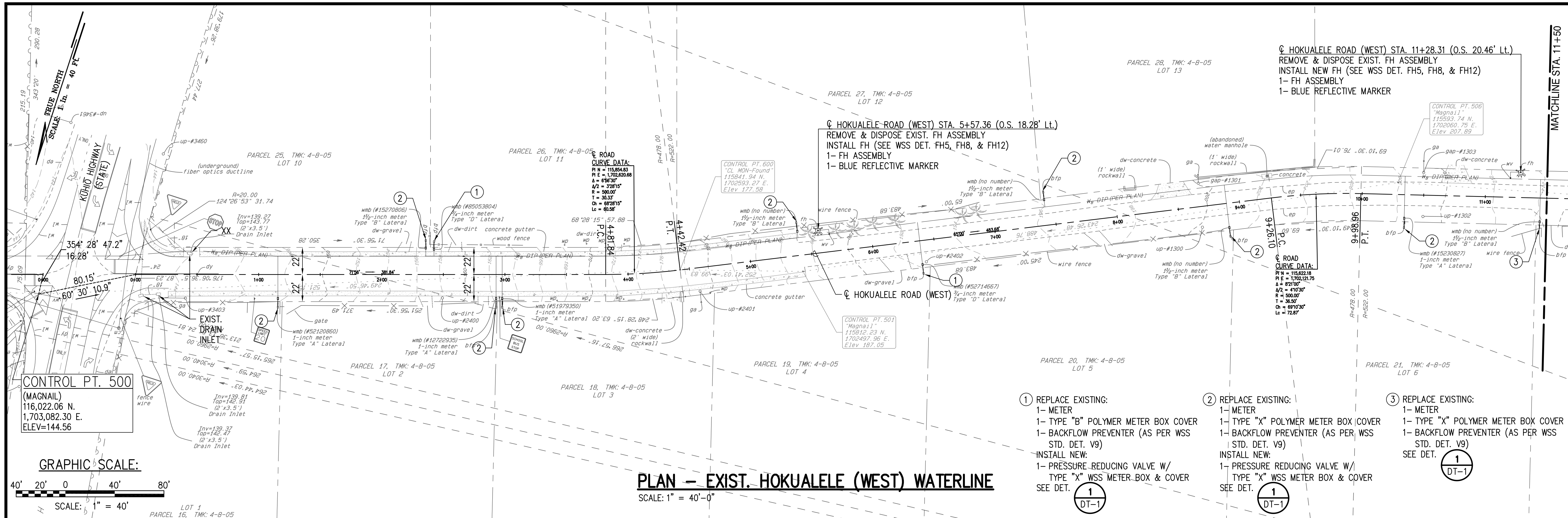
Water Line Replacement Anahola, Island of Kauai

TMK:
4-8-005:039, 4-8-018:027
& 4-8-021:032

NOTES

DESIGNED BY: JM
DRAWN BY: GT

SURVEYED BY: <u>PS</u>	DATE: <u>APR. 2011</u>
SHEET NO. <u>3</u> OF <u>30</u>	

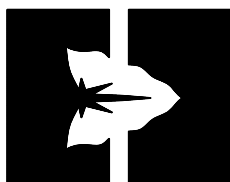


THIS WORK WAS PREPARED BY ME OR UNDER MY
SUPERVISION AND CONSTRUCTION OF THIS
PROJECT WILL BE UNDER MY OBSERVATION.

Signature [Signature] Expiration Date of the License 4/30/20



DATE	DESCRIPTION	MADE BY	APPROVED
4/15/18	ADDENDUM NO. 1 (UFW SIGNATURE)		



DEPARTMENT OF
AWAIIAN HOME LANDS

15420 Kapolei Parkway
Kapolei, Hawai'i 96707

ANAHOLA FARM LOTS

Water Line Replacement Anahola, Island of Kaua'i

TMK:
4-8-005:039, 4-8-018:027
4-8-021:032

EXISTING WATERLINE
IMPROVEMENTS
HOKUALELE ROAD
(WEST)

SIGNED BY: AK
DRAWN BY: JM

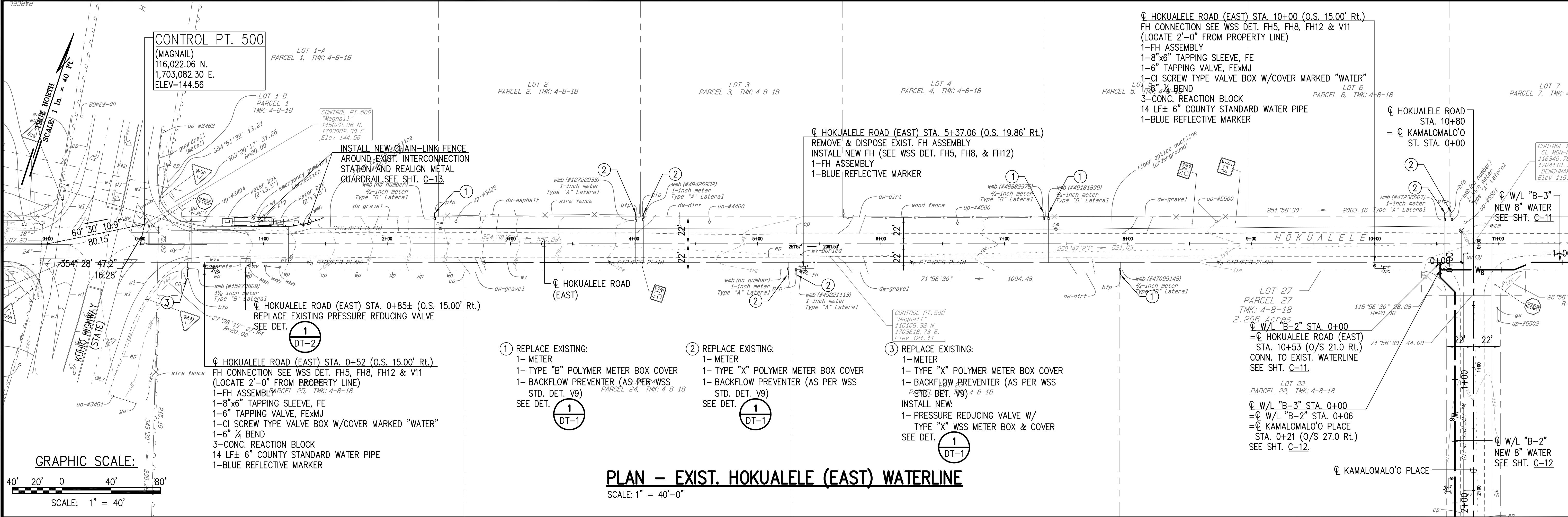
HECKED BY: <u>JM</u>	
VEYED BY: <u>PS</u>	DATE: <u>APR. 2018</u>

SHEET NO. 9 OF 30

DRAWING NAME: I:\201705-DHLL-ANAHOLA-PHI-WATER-SYSTEM-IMPROVEMENTS\06-ADDITION NO 1\PHASE 1 - WATERLINE\

EDIT TIME: 04-11-18, 11:47 AM

EDITED BY: AKEANE



PLAN - EXIST. HOKUALELE (EAST) WATERLINE
SCALE: 1" = 40'-0"

NOTES:

- PRIOR TO EXCAVATING NEAR OR AROUND THE EXISTING UTILITIES, THE CONTRACTOR SHALL RESTRAIN ALL EXISTING PIPES, VALVES, BLOCKS, ETC., AS REQUIRED TO ENSURE THE EXISTING SYSTEMS ARE NOT DISTURBED.
- PRIOR TO ANY CUT/PLUG AND CONNECTION TO EXISTING WATERLINES, THE CONTRACTOR SHALL VERIFY THE INVERT AND CONNECTION POINT IN THE FIELD.
- THE LOCATION AND INVERTS OF THE EXISTING UTILITIES ARE APPROXIMATE ONLY AND BASED ON THE BEST AVAILABLE DATA. PRIOR TO TRENCHING FOR THE NEW WATERLINE, THE CONTRACTOR SHALL LOCATE THE EXISTING UTILITY CROSSING AND VERIFY ITS LOCATION AND INVERT AND NOTIFY THE ENGINEER OF ANY CONFLICTS.
- CONTRACTOR TO VERIFY SIZE OF EXISTING SERVICE LATERAL METER BOX AND REPLACE EXISTING COVER WITH POLYMER COVER OF CORRESPONDING SIZE.

APPROVED
COUNTY ENGINEER, DEPARTMENT OF PUBLIC WORKS
COUNTY OF KAUAI (FOR WORK WITHIN COUNTY
MAINTAINED ROADS)
DATE 4/12/18

DAYANANDA H. VITHANAGE
LICENSED
PROFESSIONAL
ENGINEER
NO. C-9348
HAWAII USA

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SUPERVISION AND CONSTRUCTION OF THIS
PROJECT WILL BE UNDER MY OBSERVATION.

Signature
Expiration Date
of the License

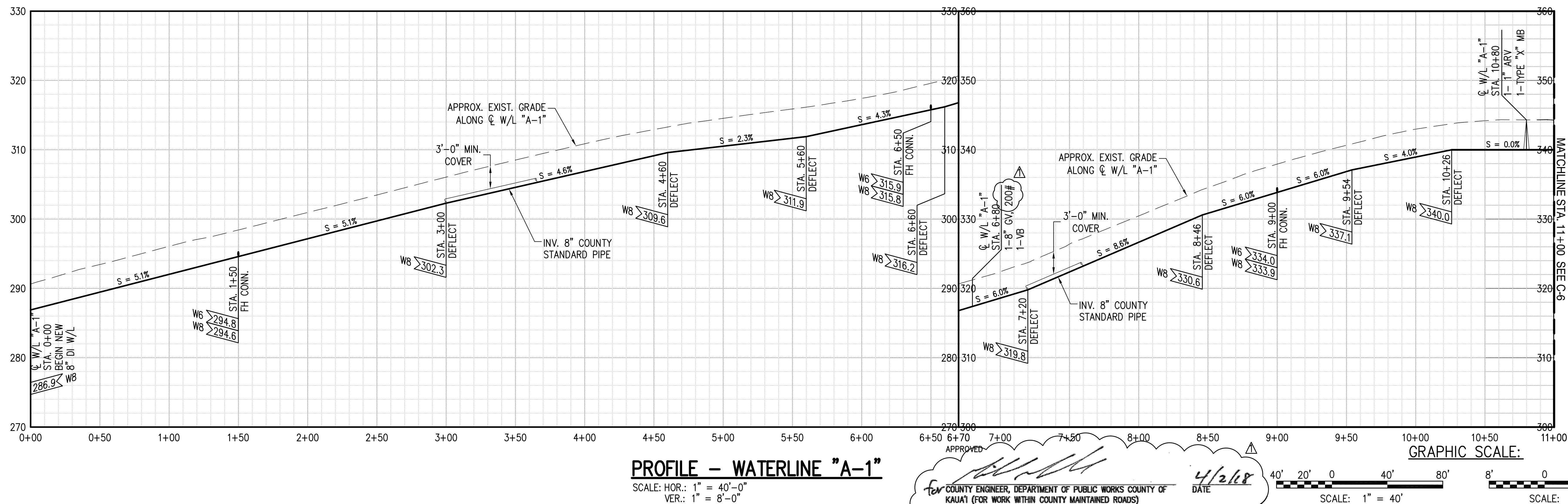
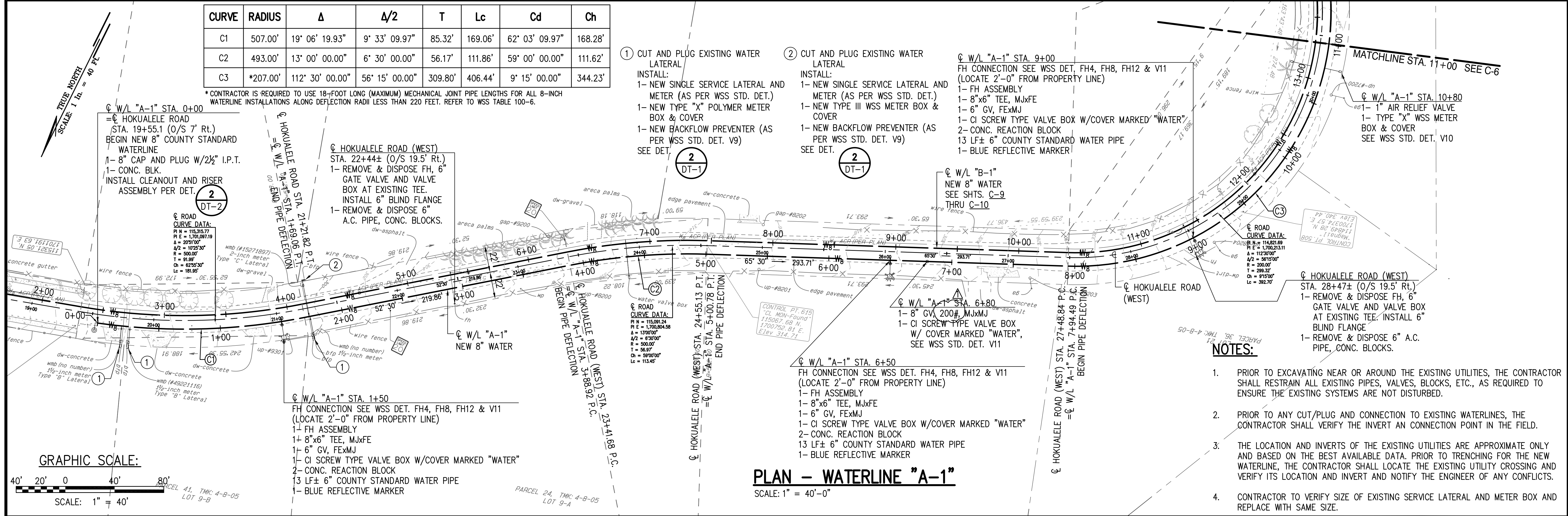
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1	4/13/18	ADDITION NO. 1 (DPW SIGNATURE)	JDM	

DEPARTMENT OF
HAWAIIAN HOME LANDS
915420 Kapolei Parkway
Kapolei, Hawaii 96707
ANAHOLA
FARM LOTS
Water Line Replacement
Anahola, Island of Kaua'i
TMK:
4-8-005:039, 4-8-018:027
& 4-8-021:032
EXISTING WATERLINE
IMPROVEMENTS
HOKUALELE ROAD
(EAST)

DESIGNED BY: AK
DRAWN BY: JM
CHECKED BY: JM
SURVEYED BY: PS
DRAWING NO.
C-4
DATE: APR. 2018
SHEET NO. 10 OF 30

FINAL PLANS: ANAHOLA FARM LOTS WATER PROJECT, PHASE I WATER LINE REPLACEMENT

DRAWING NAME: I:\201705-DHLL-ANAHOLA-Phil-Water_System_Improvements\Drawings\Contract Documents\06-Appendix No 1\Phase 1 - Waterline
EDIT TIME: 04-11-18, 11:49 AM
EDITED BY: AKEANE



DAYANANDA H. VITHANAGE
LICENSED PROFESSIONAL ENGINEER
NO. C-8348
HAWAII, USA

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

oceanit

ANAHOLA FARM LOTS

Water Line Replacement
Anahola, Island of Kaua'i

TMK:
4-8-005:039, 4-8-018:027
& 4-8-021:032

WATERLINE "A-1"
PLAN & PROFILE
STA. 0+00 TO STA. 11+00

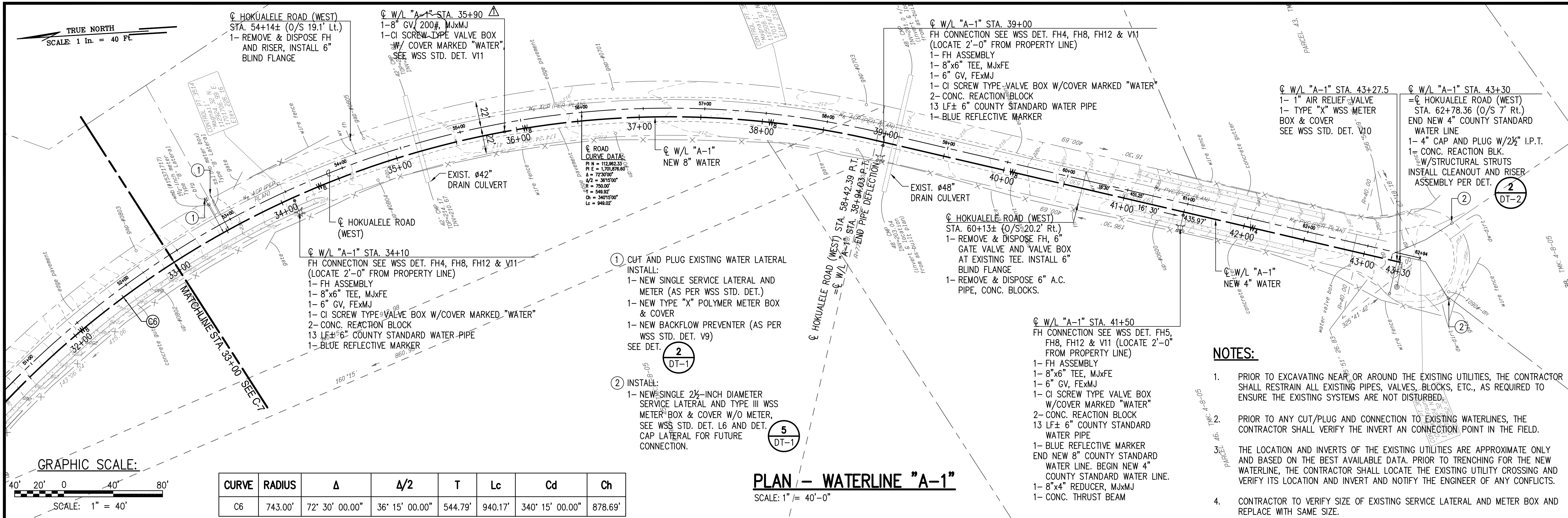
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CHECKED BY: JM
SURVEYED BY: PS

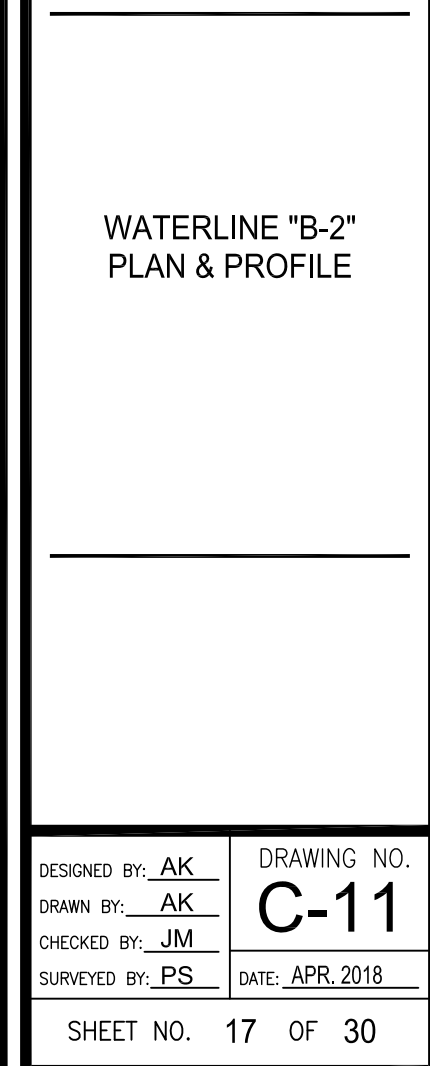
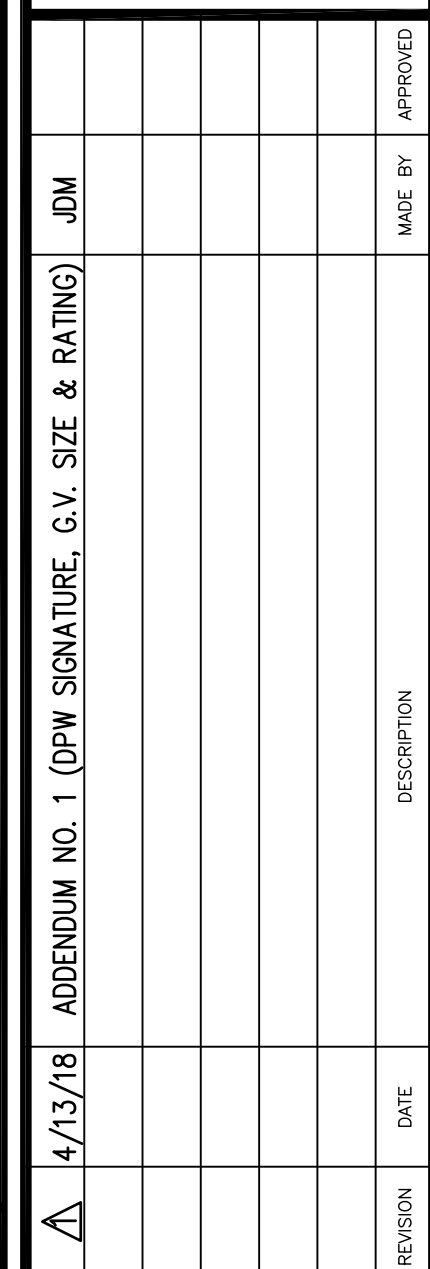
DATE: APR. 2018

SHEET NO. 11 OF 30

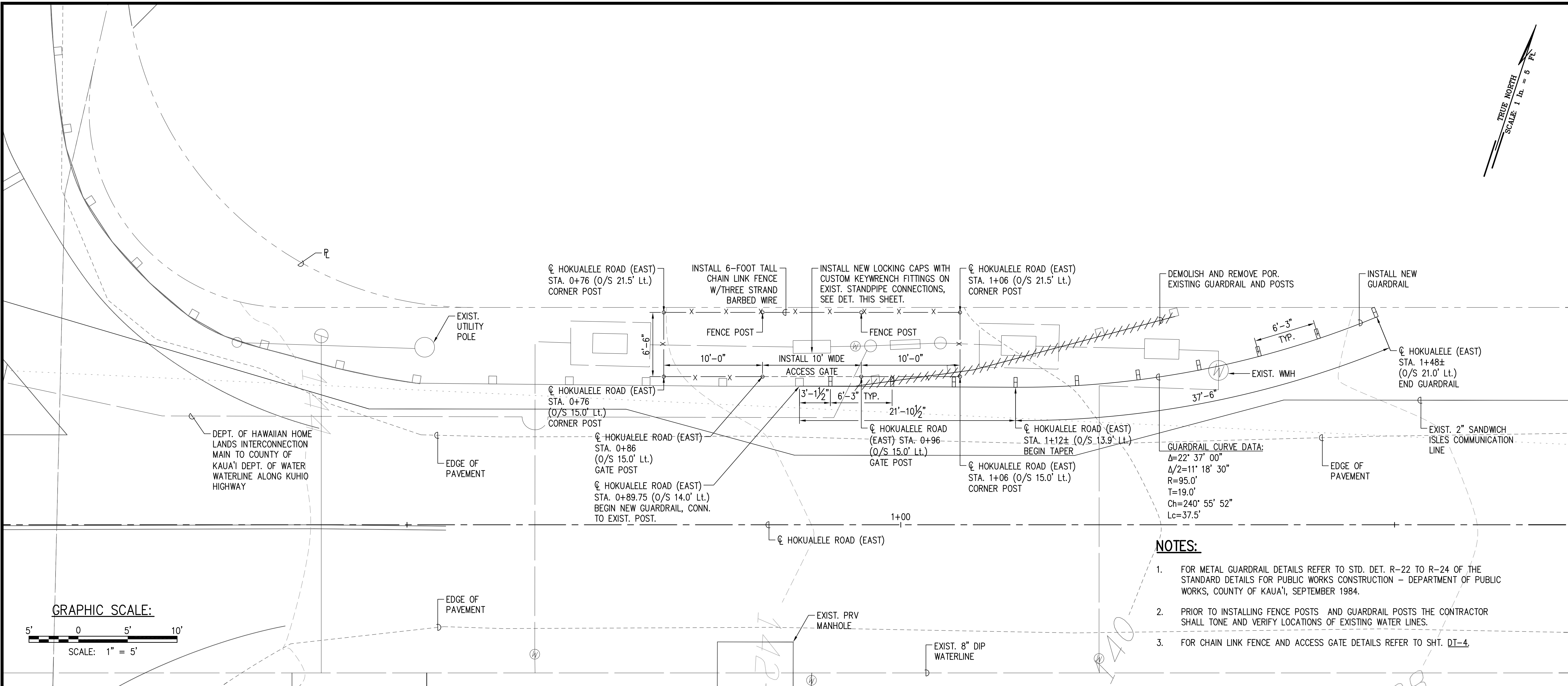
FINAL PLANS: ANAHOLA FARM LOTS WATER PROJECT, PHASE I WATER LINE REPLACEMENT

DRAWING NAME: I:\201705-DHLL-ANAHOLA-PIH_WATER_SYSTEM_IMPROVEMENTS\0 GRAPHICS\DRAWINGS\CONTRACT DOCUMENTS\06-APPENDUM NO 1\PHASE 1 - WATERLINE EDIT TIME: 04-11-18, 11:56 AM EDITED BY: AKEANE





DRAWING NAME: I:\201705-DHHL-ANAHOLA-PHI-WATER-SYSTEM-IMPROVEMENTS\06-GRAPHICS\DRAWINGS\CONTRACT DOCUMENTS\06-APPENDUM NO 1\PHASE 1 - WATERLINE\ EDIT TIME: 04-11-18, 12:26 PM EDITED BY: AKEANE

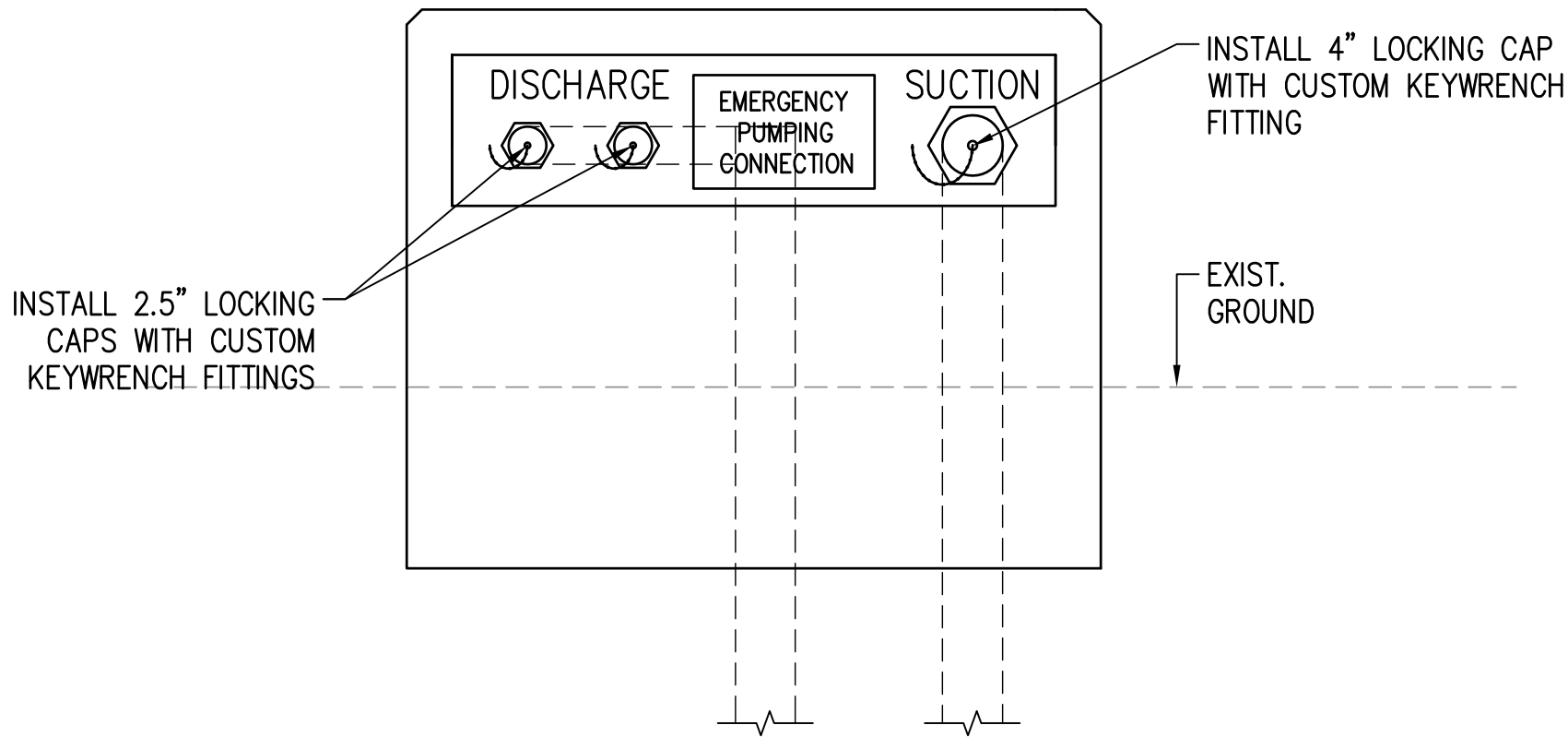


NOTES:

- FOR METAL GUARDRAIL DETAILS REFER TO STD. DET. R-22 TO R-24 OF THE STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION - DEPARTMENT OF PUBLIC WORKS, COUNTY OF KAUAI, SEPTEMBER 1984.
- PRIOR TO INSTALLING FENCE POSTS AND GUARDRAIL POSTS THE CONTRACTOR SHALL TONE AND VERIFY LOCATIONS OF EXISTING WATER LINES.
- FOR CHAIN LINK FENCE AND ACCESS GATE DETAILS REFER TO SHT. DT-4.

INTERCONNECTION STATION FENCING PLAN

SCALE: 1" = 5'-0"

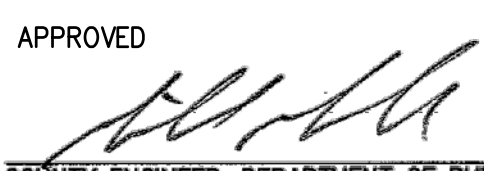


WATERLINE INTERCONNECTION ELEVATION
TYPICAL LOCKING CAP INSTALLATION

SCALE: NOT TO SCALE

A
C-13

APPROVED

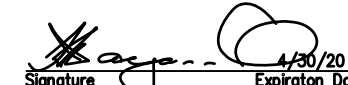
For 

COUNTY ENGINEER, DEPARTMENT OF PUBLIC WORKS
COUNTY OF KAUAI (FOR WORK WITHIN COUNTY
MAINTAINED ROADS)

4/12/18
DATE

DAYANANDA H. VITHANAGE
LICENSED
PROFESSIONAL
ENGINEER
NO. C-9348
HAWAII USA

THIS WORK WAS PREPARED BY ME OR UNDER MY
SUPERVISION AND CONSTRUCTION OF THIS
PROJECT WILL BE UNDER MY OBSERVATION.


Signature
4/12/18
Expiration Date
of the License



DATE	REVISION	DESCRIPTION	MADE BY	APPROVED
4/13/18	A	APPENDUM NO. 1 (DPW SIGNATURE)	JDM	



DEPARTMENT OF
HAWAIIAN HOME LANDS

915420 Kapolei Parkway
Kapolei, Hawai'i 96707

ANAHOLA
FARM LOTS

Water Line Replacement
Anahola, Island of Kaua'i

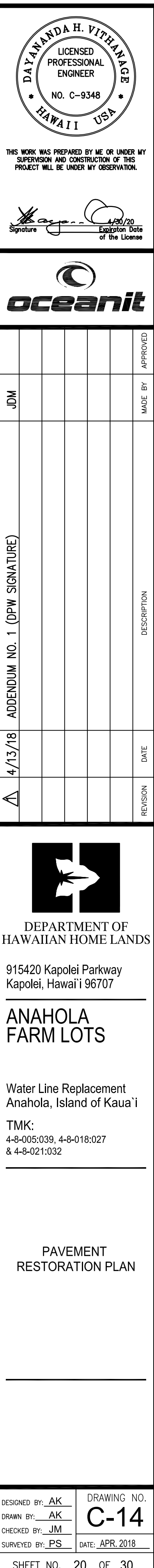
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4-8-005:039, 4-8-018:027
& 4-8-021:032

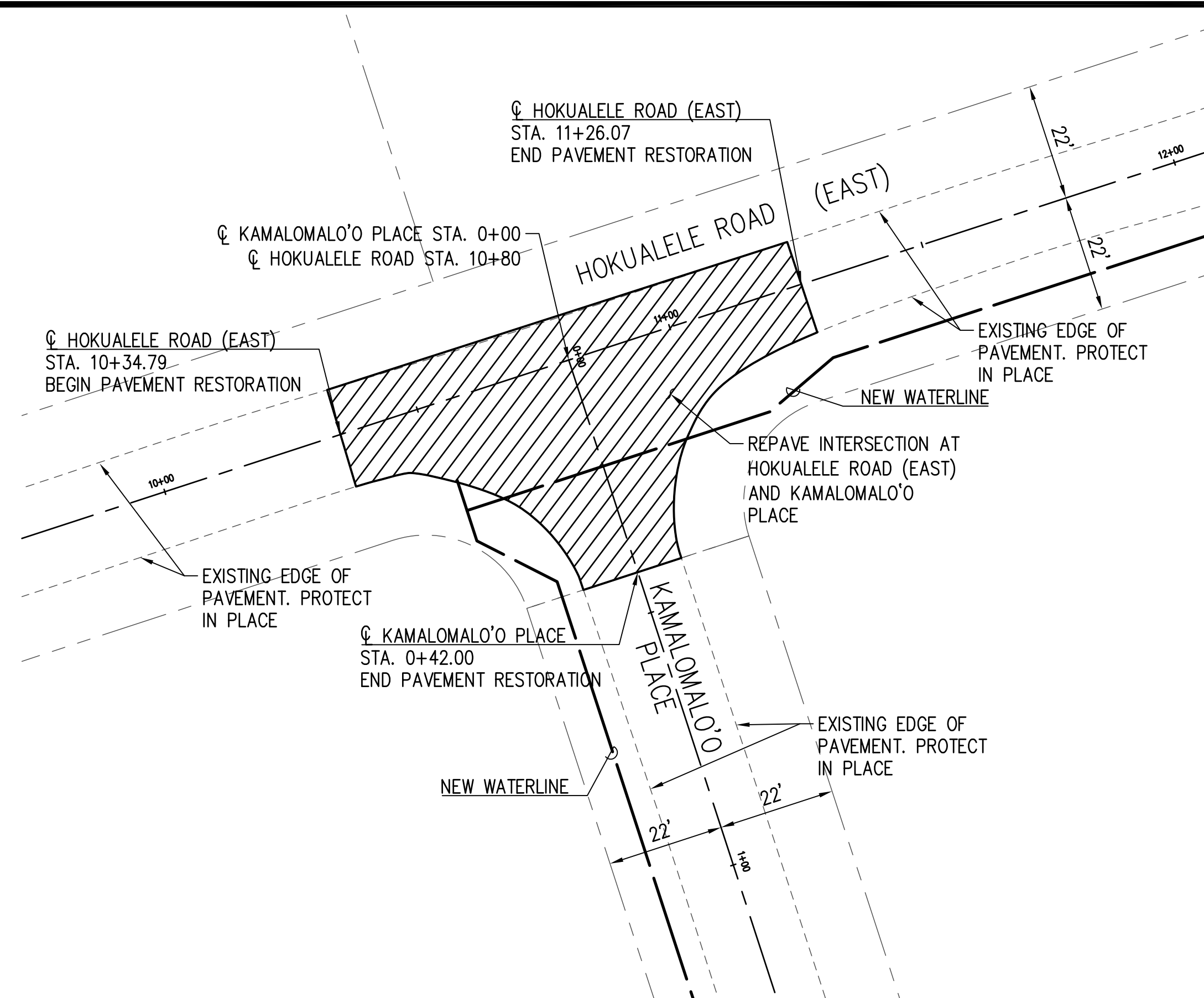
INTERCONNECTION
STATION
FENCING PLAN

DESIGNED BY: JIM
DRAWN BY: AJK
CHECKED BY: JIM
SURVEYED BY: PS

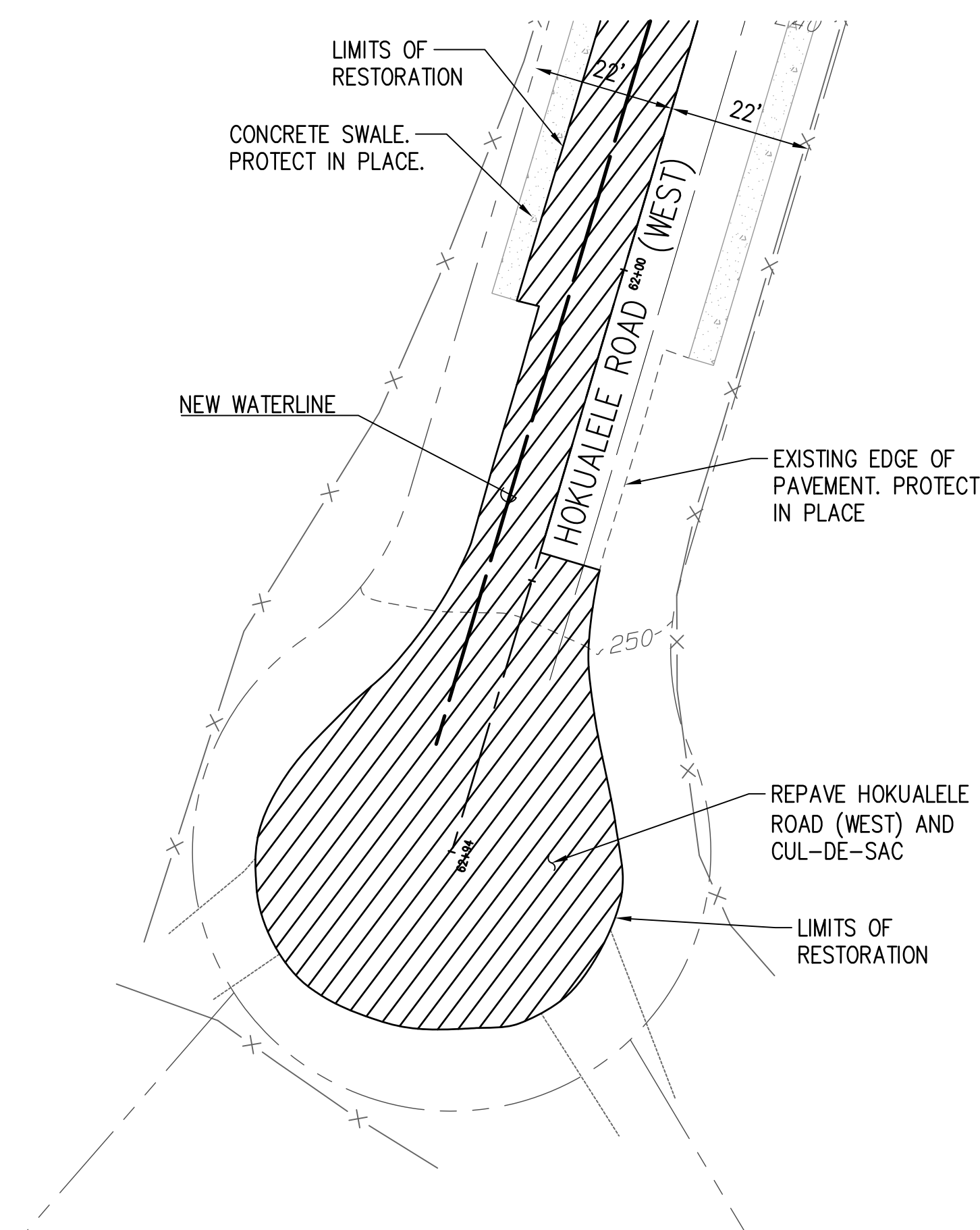
DRAWING NO.
C-13
DATE: APR. 2018

SHEET NO. 19 OF 30

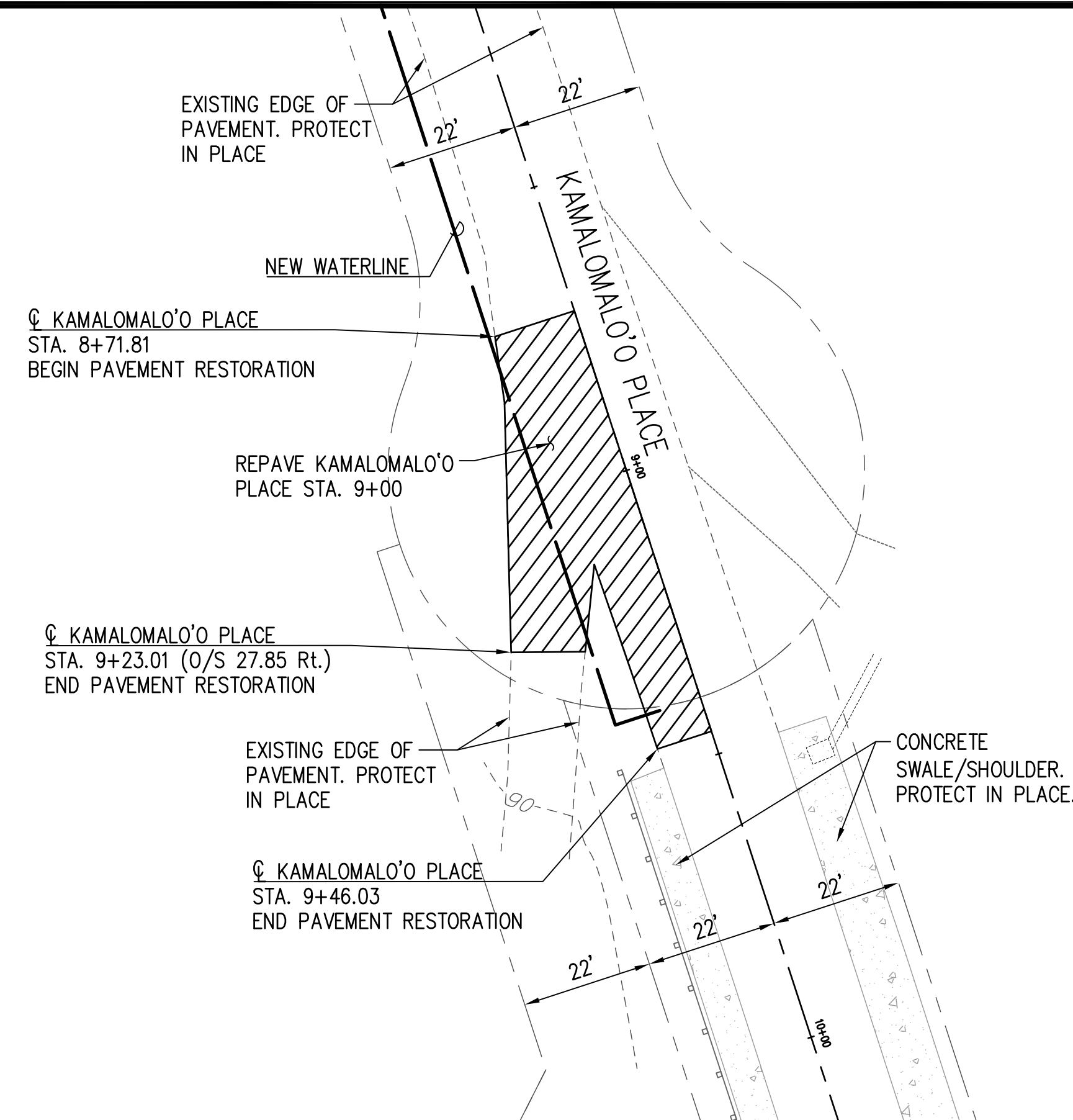




HOKUALELE ROAD (EAST) AND KAMALOMALO'O PLACE
SCALE: 1" = 20'

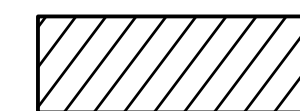


HOKUALELE ROAD (WEST) – STA 63+00
SCALE: 1" = 20'



KAMALOMALO'O PLACE - STA. 9+00
SCALE: 1" = 20'

LEGEND:

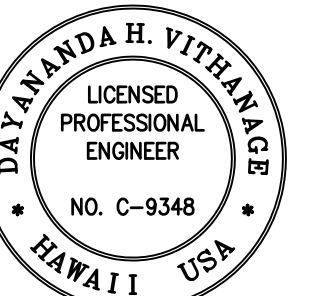


PAVEMENT RESTORATION
(FOR TRENCH RESTORATION
DETAILS SEE SHT. DT-1).

APPROVED

COUNTY ENGINEER, DEPARTMENT OF PUBLIC WORKS
COUNTY OF KAUAI (FOR WORK WITHIN COUNTY
MAINTAINED ROADS)

4/12/18
DATE

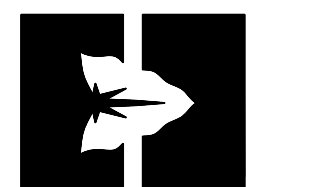


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PROJECT WILL BE UNDER MY OBSERVATION.

Signature _____ Expiration Date of the License 4/30/20



REVISION	DATE	DESCRIPTION	MADE BY	APPROVED
1/1	4/13/18	ADDENDUM NO. 1 (UFW SIGNATURE)	JDM	



DEPARTMENT OF
HAWAIIAN HOME LANDS

15420 Kapolei Parkway
Kapolei, Hawai'i 96707

ANAHOLA FARM LOTS

Water Line Replacement Anahola, Island of Kaua'i

TMK:
-8-005:039, 4-8-018:027
4-8-021:032

PAVEMENT RESTORATION DETAILS

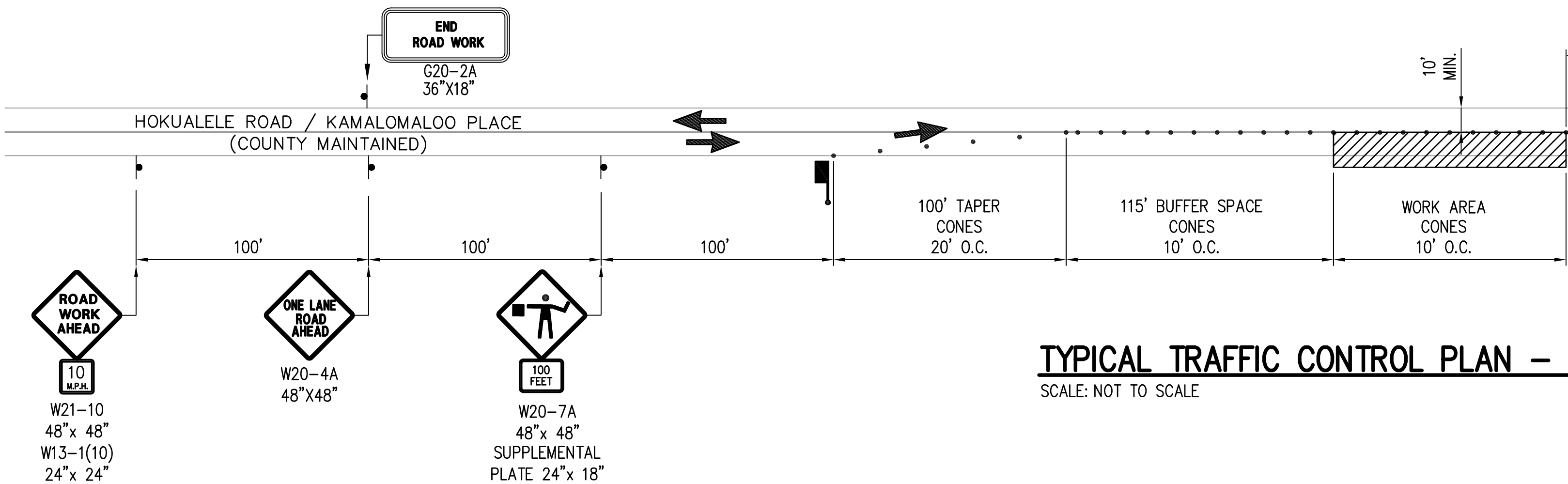
SIGNED BY: <u>JM</u>	DRAWING NO. DT-5
DRAWN BY: <u>JM</u>	
CHECKED BY: <u>JM</u>	DATE: <u>APR. 2018</u>
REVIEWED BY: <u>PS</u>	

SHEET NO. 25 OF 30

DRAWING NAME: I:\201705-DHHL-ANAHOLA-Phil_Water_System_Improvements\06-ADDENDUM NO 1\PHASE I - WATERLINE\ EDIT TIME: 04-11-18, 1:34 PM EDITED BY: AKANE

TRAFFIC CONTROL NOTES

1. THE PERMITTEE SHALL MAKE ADJUSTMENTS AT INTERSECTIONS, DRIVEWAYS, BRIDGES, STRUCTURES, ETC., TO FIT FIELD CONDITIONS.
2. CONES OR DELINEATORS SHALL BE EXTENDED TO A POINT WHERE THEY ARE VISIBLE TO APPROACHING TRAFFIC.
3. TRAFFIC CONTROL DEVICES SHALL BE INSTALLED SUCH THAT THE SIGN OR DEVICE FARTHEST FROM THE WORK AREA SHALL BE PLACED FIRST. THE OTHERS SHALL THEN BE PLACED PROGRESSIVELY TOWARD THE WORK AREA.
4. REGULATORY AND WARNING SIGNS WITHIN THE CONSTRUCTION ZONE THAT ARE IN CONFLICT WITH THE TRAFFIC CONTROL PLANS SHALL BE REMOVED OR COVERED. ALL SIGNS SHALL BE RESTORED UPON COMPLETION OF THE WORK.
5. FLAGGERS AND/OR POLICE OFFICERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES.
6. WHEN REQUIRED BY THE ISSUING OFFICE, THE PERMITTEE SHALL INSTALL A FLASHING ARROW SIGNAL AS SHOWN IN THE MUTCD.
7. SIGN SPACING (D), TAPER LENGTHS (T) AND SPACING OF CONES OR DELINEATORS SHALL BE AS SHOWN IN TABLE 1, UNLESS OTHERWISE NOTED ON THE TRAFFIC CONTROL PLANS.
8. ALL TRAFFIC LANES SHALL BE A MINIMUM OF 10 FEET WIDE.
9. ALL CONSTRUCTION WARNING SIGNS SHALL BE PROMPTLY REMOVED OR COVERED WHENEVER THE MESSAGE IS NOT APPLICABLE OR NOT IN USE.
10. THE BACKS OF ALL SIGNS SHALL BE PROMPTLY REMOVED OR COVERED TO PRECLUDE THE DISPLAY OF INAPPLICABLE SIGN MESSAGES (I.E., WHEN SIGNS HAVE MESSAGES ON BOTH FACES), WHENEVER THE MESSAGES ARE NOT APPLICABLE OR NOT IN USE.
11. AT THE END OF EACH DAY'S WORK OR AS SOON AS THE WORK IS COMPLETED, THE PERMITTEE SHALL REMOVE ALL TRAFFIC CONTROL DEVICES NO LONGER NEEDED TO PERMIT FREE AND SAFE PASSAGE OF PUBLIC TRAFFIC. REMOVAL SHALL BE IN THE REVERSE ORDER OF INSTALLATION.
12. REPLACE PERMANENT PAVEMENT MARKINGS AND TRAFFIC SIGNS UPON COMPLETION OF EACH PHASE OF WORK.
13. POLICE OFFICERS/FLAGGERS SHALL BE PRESENT AT ALL TIMES.
14. WHEN REQUIRED BY THE COUNTY OF KAUAI, AN ADVERTISEMENT SHALL BE PLACED IN THE NEWSPAPER BY THE CONTRACTOR FOR ANY LANE CLOSURE. THE ADVERTISEMENT SHALL BE MADE ONE (1) WEEK BEFORE ANY LANE CLOSURE AND SHALL CONTAIN THE FOLLOWING INFORMATION:
 - A. MAP OF THE TRAFFIC CHANGE LIMITS;
 - B. NOTICE OF STARTING AND ENDING DATES, TIMES AND DURATION;
 - C. MAP TO SHOW LANE CLOSURE;
 - D. EXPLANATION OF LANE CLOSURE, "NOTICE TO MOTORISTS AND PEDESTRIANS"
15. ALL WORKERS WITHIN THE COUNTY RIGHT OF WAY WHO ARE EXPOSED TO EITHER VEHICLES USING THE ROADWAY OR TO CONSTRUCTION EQUIPMENT SHALL WEAR HIGH VISIBILITY SAFETY APPAREL THAT MEETS THE PERFORMANCE CLASS 2 OR 3 REQUIREMENTS OF ANSI/ISEA 107-2004. "WORKERS" ARE DEFINED AS PEOPLE ON FOOT WHOSE DUTIES PLACE THEM WITHIN THE COUNTY R/W, SUCH AS, BUT NOT LIMITED TO CONSTRUCTION AND MAINTENANCE FORCES, EQUIPMENT OPERATORS, SURVEY CREW, UTILITY CREW, RESPONDERS TO INCIDENTS (EG. EMT AND FIREMEN), AND LAW ENFORCEMENT PERSONNEL DIRECTING TRAFFIC, INVESTIGATING ACCIDENTS, HANDLING LANE CLOSURES AND INSTALLING WATER SERVICE CONNECTIONS (ROADWAY CONSTRUCTION).
16. ALL TRAFFIC CONTROL DEVICE SHALL BE REFLECTORIZED WHEN USED AT NIGHT. CONES SHALL BE EQUIPPED WITH REFLECTORIZED COLLAR WHEN USED AT NIGHT. FLASHING LIGHTS SHALL BE USED WITH BARRICADES AND STEADY BURN LIGHTS WHEN USED IN A SERIES FOR CHANNELIZATION. FLAGGER STATIONS SHALL BE ADEQUATELY ILLUMINATED AT NIGHT.
17. CONTRACTOR TO PROVIDE ACCESS AND/OR DIRECTION SIGNS TO REROUTE PEDESTRIAN TRAFFIC.
18. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO MINIMIZE THE USE AND DURATION OF STEEL PLATES. ALL STEEL PLATES SHALL HAVE A NON-SKID SURFACING. THE COUNTY MAY REQUIRE THE BACKFILLING AND PATCHING OF THE TRENCH DUE TO THE EXCESSIVE USE OF STEEL PLATES.
19. THE CONTRACTOR SHALL PROVIDE AN ADEQUATE NON-SLIP BRIDGING MATERIAL, INCLUDING SHORING OVER TRENCHES IN PAVEMENT AREAS. THE BRIDGING SHALL BE ABLE TO SUPPORT ALL TYPES OF VEHICULAR AND PEDESTRIAN TRAFFIC.
20. WHERE PEDESTRIAN WALKWAYS EXIST, THEY SHALL BE MAINTAINED IN A SAFE AND PASSABLE CONDITION OR OTHER FACILITIES FOR PEDESTRIANS SHALL BE PROVIDED. PASSAGES BETWEEN WALKWAYS AT INTERSECTIONS SHALL LIKEWISE BE PROVIDED.



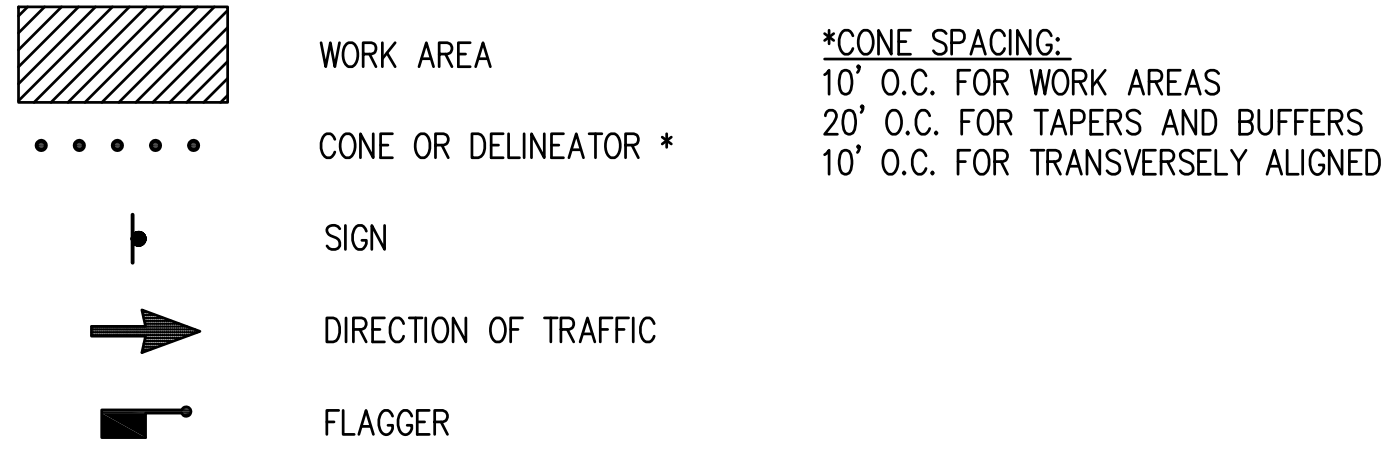
TYPICAL TRAFFIC CONTROL PLAN – ONE LANE CLOSURE
SCALE: NOT TO SCALE

TABLE 1							
POSTED SPEED LIMIT (M.P.H.)	SIGN SPACING (D) (FEET)	TAPER LENGTH (T) (FEET)		LONGITUDINAL BUFFER SPACE (B) FEET	SPACING OF CONES OR DELINEATORS (FEET)		
		W=12' OR LESS ①	W=GREATER THAN 12' ①		TAPER	TANGENT	WORK AREA
20	250	200	W X 17	35	20	20	10
25	250	200	W X 17	55	25	25	10
30	250	250	W X 20	85	30	30	10
35	250	250	W X 20	120	35	35	10
40	500	350	W X 30	170	40	40	10
45	500	550	W X 45	220	45	45	10
50	1000	600	W X 50	280	50	50	10
55	1000	700	W X 55	335	55	55	10

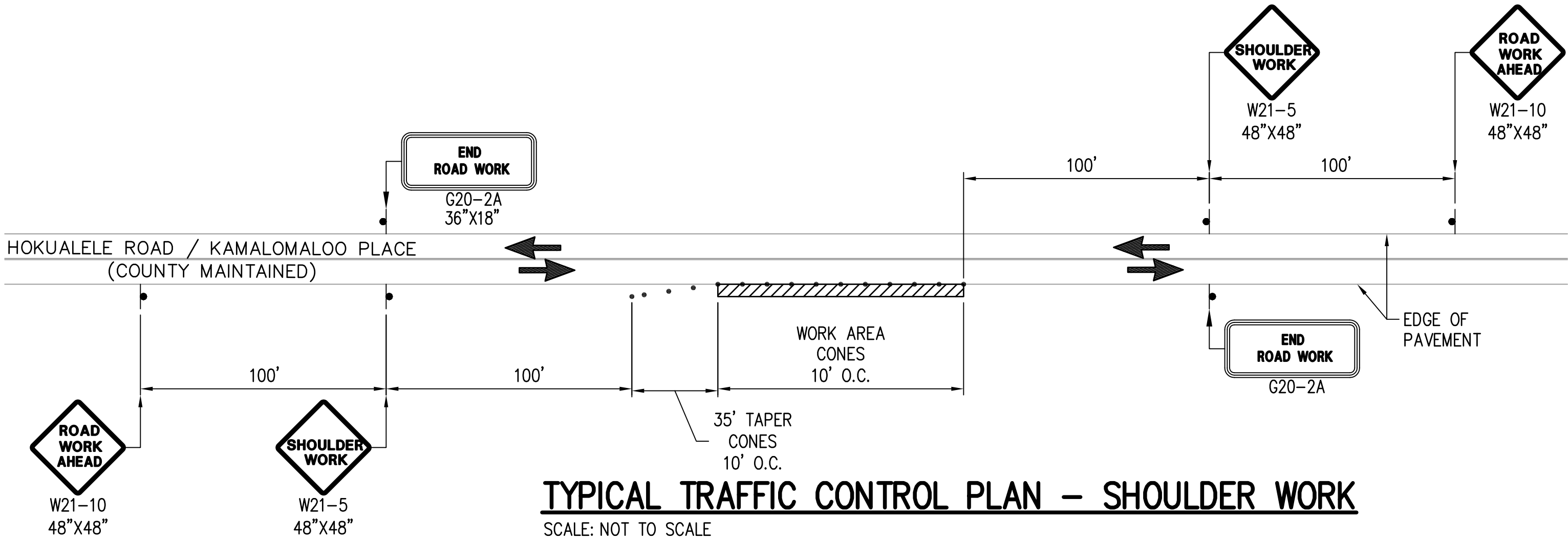
NOTE:

① W=WIDTH OF LANE, SHOULDER, OR OFFSET.

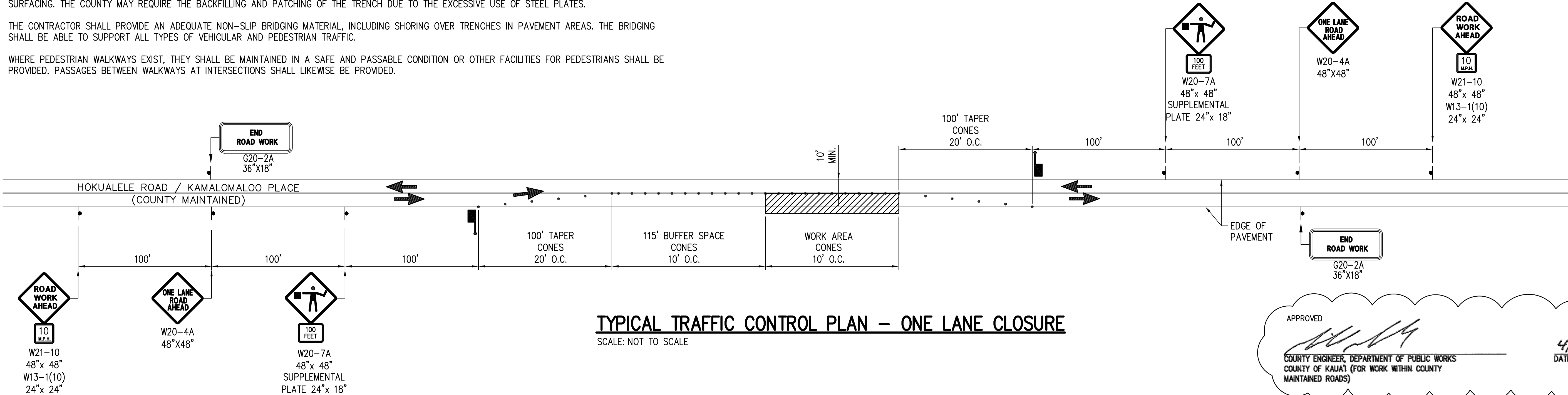
TRAFFIC CONTROL LEGEND:



*CONE SPACING:
10' O.C. FOR WORK AREAS
20' O.C. FOR TAPERS AND BUFFERS
10' O.C. FOR TRANSVERSELY ALIGNED



TYPICAL TRAFFIC CONTROL PLAN – SHOULDER WORK
SCALE: NOT TO SCALE



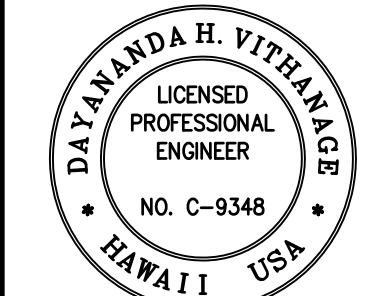
TYPICAL TRAFFIC CONTROL PLAN – ONE LANE CLOSURE
SCALE: NOT TO SCALE

APPROVED

[Signature]

COUNTY ENGINEER, DEPARTMENT OF PUBLIC WORKS
COUNTY OF KAUAI (FOR WORK WITHIN COUNTY MAINTAINED ROADS)

4/2/18
DATE

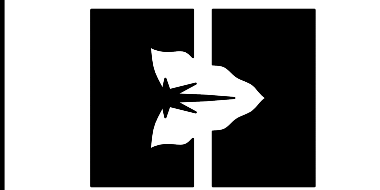


THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

[Signature]
Signature
4/2/20
Expiration Date of the License



DATE	REVISION	DESCRIPTION	MADE BY	APPROVED
4/13/18		ADDENDUM NO. 1 (DPW SIGNATURE)	JDM	



DEPARTMENT OF HAWAIIAN HOME LANDS
915420 Kapolei Parkway
Kapolei, Hawai'i 96707

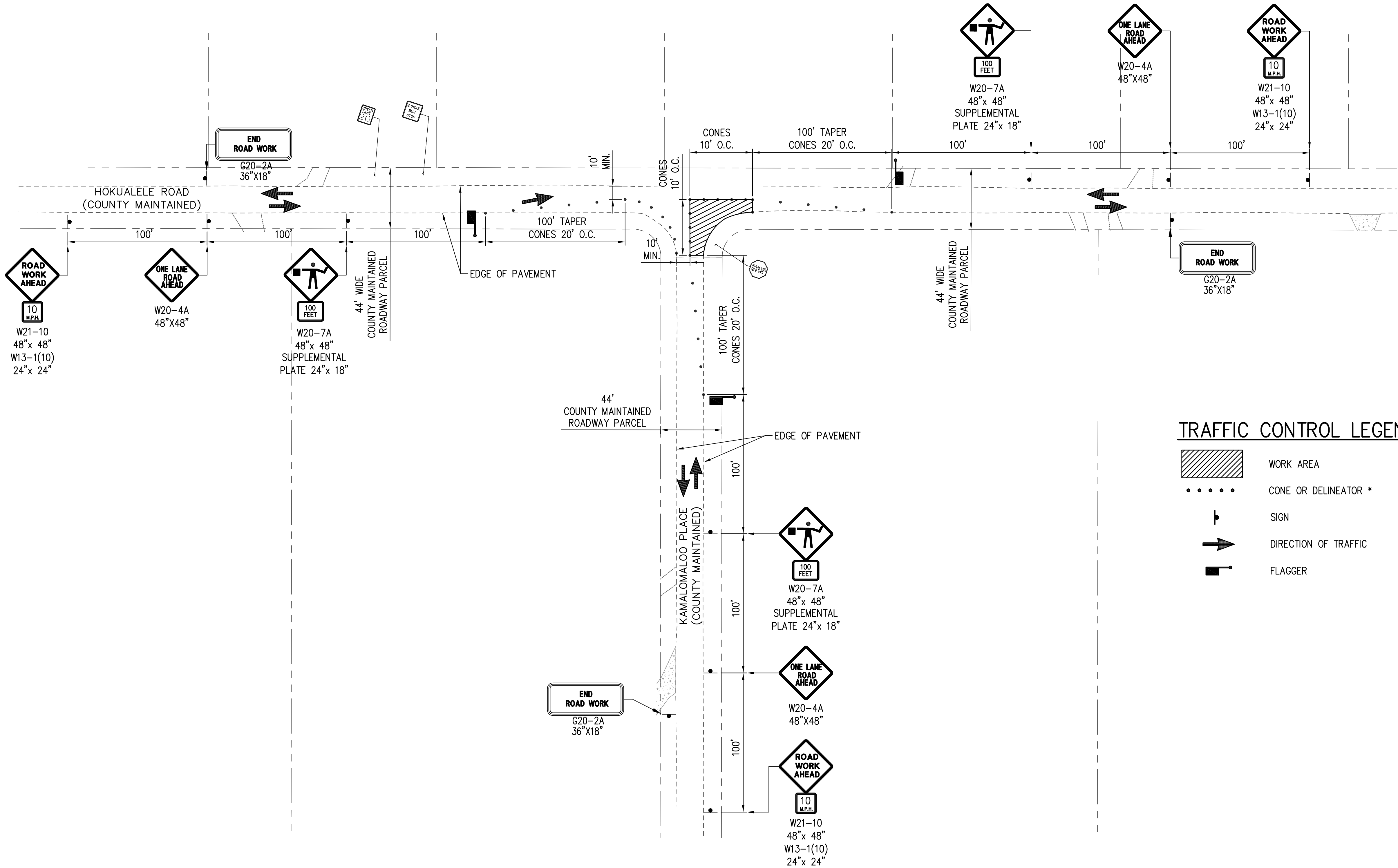
ANAHOLA FARM LOTS

Water Line Replacement
Anahola, Island of Kaua'i
TMK:
4-8-005:039, 4-8-018:027
& 4-8-021:032

TRAFFIC CONTROL
SHEET - 1


DESIGNED BY: JDM	DRAWING NO. TC-1
DRAWN BY: GT	
CHECKED BY: JDM	
SURVEYED BY: PS	DATE: APR 2018
SHEET NO. 28	OF 30

DRAWING NAME: I:\201705-DHHL-ANAHOLA-PIHL-WATER-SYSTEM-IMPROVEMENTS\0 GRAPHICS\DRAWINGS\CONTRACT DOCUMENTS\06-ADDENDUM NO 1\PHASE 1 - WATERLINE\ EDIT TIME: 04-11-18, 1:36 PM EDITED BY: AKEAENE



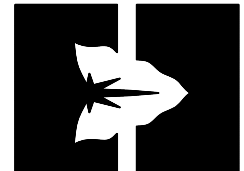
TRAFFIC CONTROL PLAN, HOKUALELE ROAD AND KAMALOMALO'O PLACE INTERSECTION – PHASE 1
SCALE: NOT TO SCALE

APPROVED
for 
COUNTY ENGINEER, DEPARTMENT OF PUBLIC WORKS
COUNTY OF KAUAI (FOR WORK WITHIN COUNTY
MAINTAINED ROADS)
DATE 4/2/18

DAYANANDA H. VITHANAGE
LICENSED
PROFESSIONAL
ENGINEER
NO. C-9348
HAWAII USA
THIS WORK WAS PREPARED BY ME OR UNDER MY
SUPERVISION AND CONSTRUCTION OF THIS
PROJECT WILL BE UNDER MY OBSERVATION.

Signature
4/2/20
Expiration Date
of the License


oceanit

ADDENDUM NO. 1 (DPW SIGNATURE)	DATE	REVISION	DESCRIPTION	MADE BY	APPROVED
JDM	4/13/18				

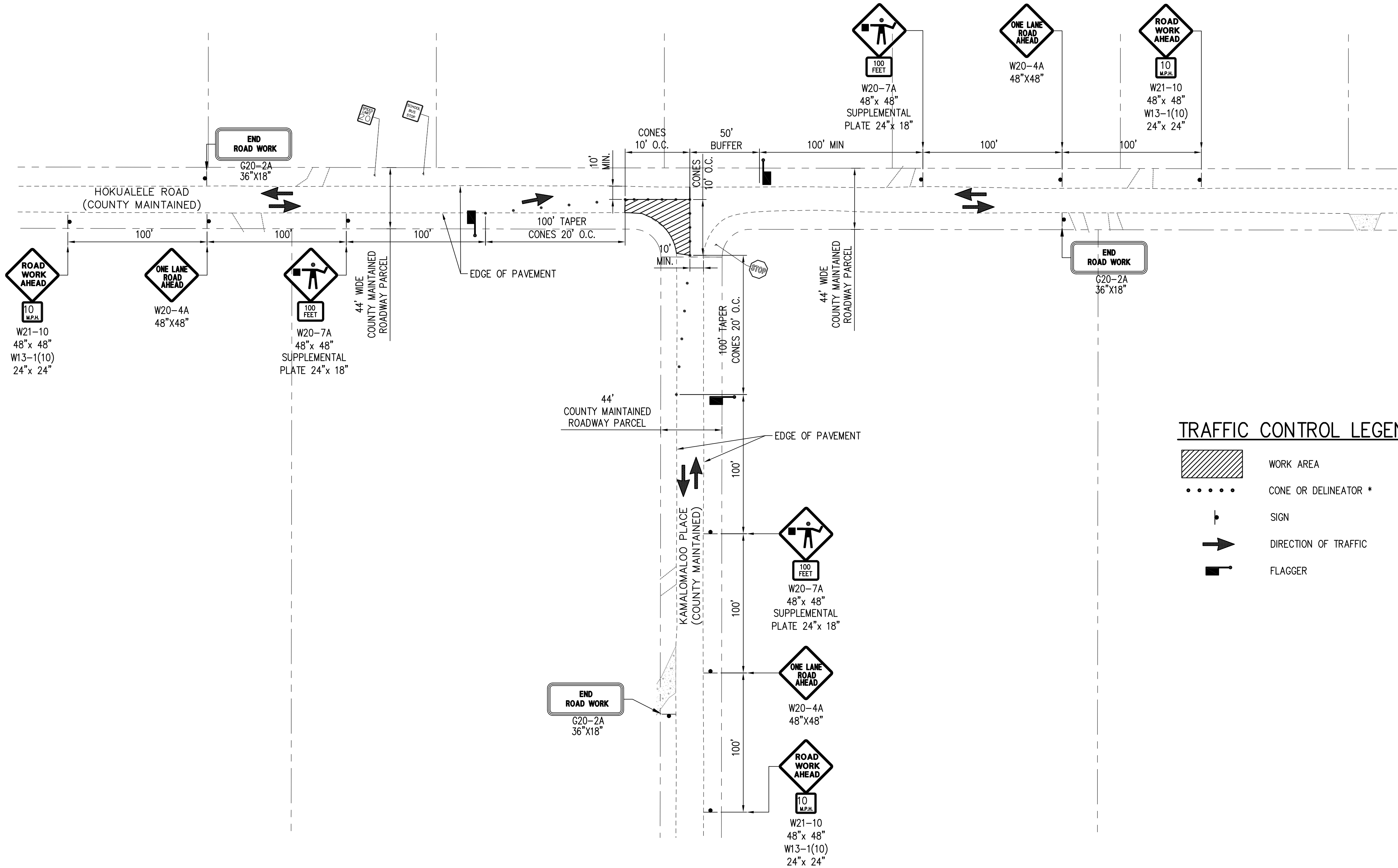

DEPARTMENT OF
HAWAIIAN HOME LANDS
915420 Kapolei Parkway
Kapolei, Hawai'i 96707
ANAHOLA
FARM LOTS
Water Line Replacement
Anahola, Island of Kaua'i
TMK:
4-8-005:039, 4-8-018:027
& 4-8-021:032

TRAFFIC CONTROL
SHEET - 2

DESIGNED BY: JDM
DRAWN BY: GT
CHECKED BY: JDM
SURVEYED BY: PS
DRAWING NO.
TC-2
DATE: APR 2018
SHEET NO. 29 OF 30

FINAL PLANS: ANAHOLA FARM LOTS WATER PROJECT, PHASE I WATER LINE REPLACEMENT

DRAWING NAME: I:\201705-DHHL-ANAHOLA_PHL-WATER_SYSTEM_IMPROVEMENTS\0 GRAPHICS\DRAWINGS\CONTRACT DOCUMENTS\06_ADDENDUM NO 1\PHASE 1 - WATERLINE\ EDIT TIME: 04-11-18, 1:38 PM EDITED BY: AKANE



TRAFFIC CONTROL PLAN, HOKUALELE ROAD AND KAMALOMALO'O PLACE INTERSECTION - PHASE 2
SCALE: NOT TO SCALE

APPROVED
COUNTY ENGINEER, DEPARTMENT OF PUBLIC WORKS
COUNTY OF KAUAI (FOR WORK WITHIN COUNTY
MAINTAINED ROADS)
DATE 4/2/18

DAYANANDA H. VITHANAGE
LICENSED
PROFESSIONAL
ENGINEER
NO. C-9348
HAWAII USA

THIS WORK WAS PREPARED BY ME OR UNDER MY
SUPERVISION AND CONSTRUCTION OF THIS
PROJECT WILL BE UNDER MY OBSERVATION.

Signature

4/2/20
Expiration Date
of the License

oceanit

DATE	REVISION	DESCRIPTION	APPROVED	MADE BY
4/13/18		ADDENDUM NO. 1 (DPW SIGNATURE)		JDM

DEPARTMENT OF
HAWAIIAN HOME LANDS

915420 Kapolei Parkway
Kapolei, Hawai'i 96707

ANAHOLA
FARM LOTS

Water Line Replacement
Anahola, Island of Kaua'i

TMK:
4-8-005:039, 4-8-018:027
& 4-8-021:032

TRAFFIC CONTROL
SHEET - 3

DESIGNED BY: JDM	DRAWING NO. TC-3
DRAWN BY: GT	
CHECKED BY: JDM	
SURVEYED BY: PS	DATE: APR 2018
SHEET NO. 30	OF 30

FINAL PLANS: ANAHOLA FARM LOTS WATER PROJECT, PHASE I WATER LINE REPLACEMENT