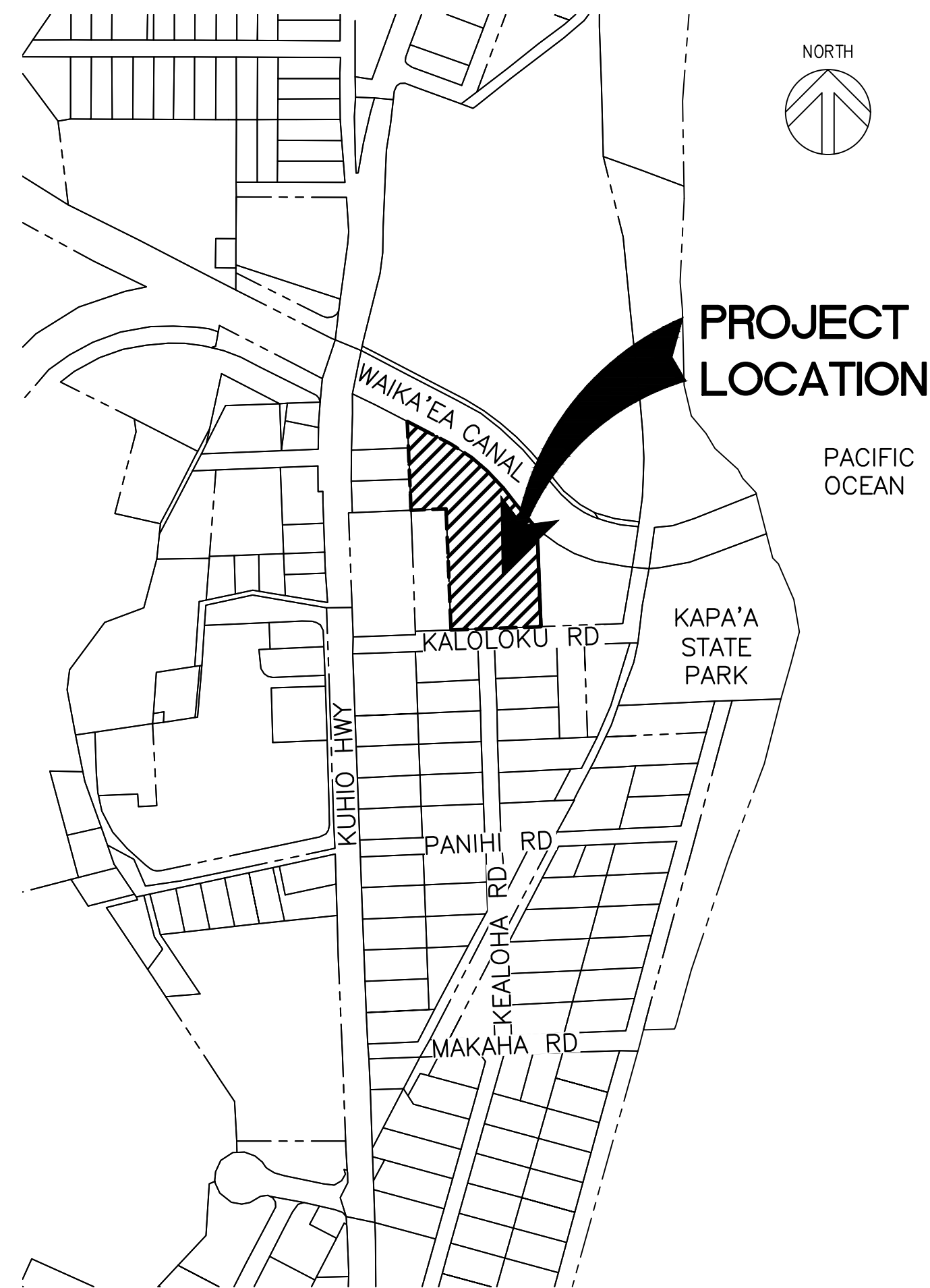


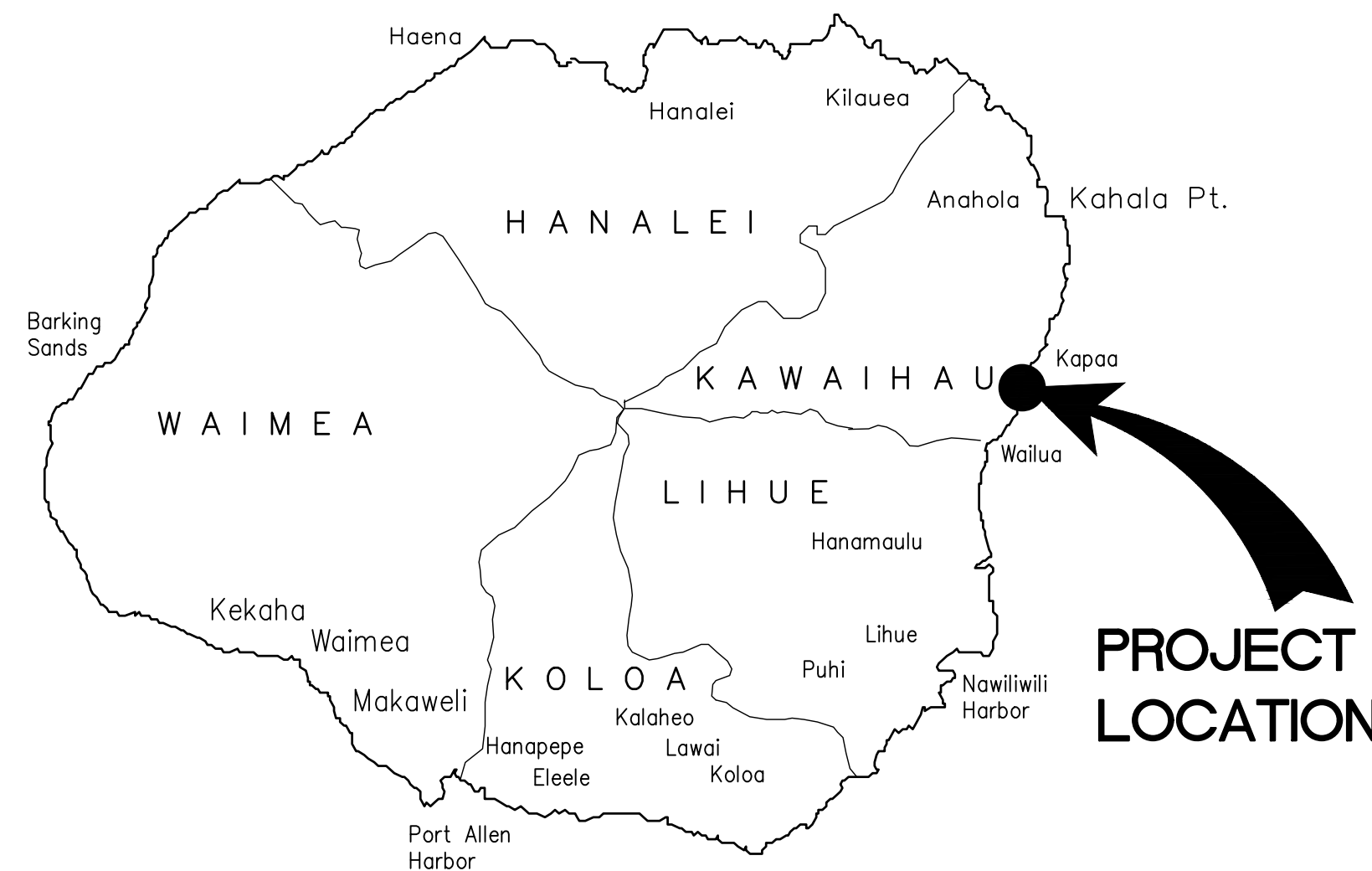
STATE OF HAWAII  
 DEPARTMENT OF LAND AND NATURAL RESOURCES  
 ENGINEERING DIVISION  
 FOR  
 DIVISION OF AQUATIC RESOURCES  
 JOB NO. C00TK91A

# KAUA'I WORK STATION SITE WORK

KAPA'A, KAUA'I, HAWAII  
 T.M.K.: (4) 4-5-006: 001



**LOCATION MAP**  
NOT TO SCALE



**ISLAND OF KAUA'I**  
NOT TO SCALE

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APPROVED: \_\_\_\_\_ DATE: 04/23/2024

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APPROVED: \_\_\_\_\_ DATE: 04/23/2024

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**SCOPE OF WORK DESCRIPTION**  
 WORK SHALL INCLUDE WATER CONNECTION PROVIDED VIA THE EXISTING WATER METER SERVING THE WAIKAEA BOAT RAMP AND SUBMETERED FOR DIVISION OF AQUATIC RESOURCES AND ELECTRICAL SERVICE PROVIDED VIA CONNECTION TO KAUA'I ISLAND UTILITY COOPERATIVE. 6' HIGH CHAIN LINK PERIMETER FENCE WITH A ROLLING GATE SHALL SECURE THE SITE.

**GENERAL CONSTRUCTION NOTES FOR DLNR PROJECTS**

- ALL APPLICABLE CONSTRUCTION WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST REVISION OF THE STATE OF HAWAII, DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", DATED 2005; THE DEPARTMENT OF PUBLIC WORKS, CITY AND COUNTY OF HONOLULU, "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION", DATED SEPTEMBER 1986 AND "STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION", DATED SEPTEMBER 1984, WHERE APPLICABLE AND THE 2012 INTERNATIONAL BUILDING CODE.
- VERIFY AND CHECK ALL DIMENSIONS AND DETAILS SHOWN ON THE DRAWINGS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCY SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER FOR DIRECTION.
- NO CONTRACTOR SHALL PERFORM ANY CONSTRUCTION OPERATION SO AS TO CAUSE FALLING ROCKS, SOIL OR DEBRIS IN ANY FORM TO FALL, SLIDE OR FLOW ONTO ADJOINING PROPERTIES, STREETS OR NATURAL WATERCOURSES. SHOULD SUCH VIOLATIONS OCCUR, THE COSTS INCURRED FOR ANY REMEDIAL ACTION SHALL BE PAYABLE BY THE CONTRACTOR.
- THE UNDERGROUND PIPES, CABLES OR DUCTLINES KNOWN TO EXIST BY THE ENGINEER FROM HIS SEARCH OF RECORDS ARE INDICATED ON THE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATIONS AND DEPTHS OF THE FACILITIES AND EXERCISE PROPER CARE IN EXCAVATING IN THE AREA. ALL DAMAGED PORTIONS SHALL BE REPLACED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE AFFECTED UTILITY COMPANY AND SHALL BE THE CONTRACTORS RESPONSIBILITY. PERSONAL INJURY RESULTING FROM CONTACT WITH EXISTING UTILITIES SHALL BE THE CONTRACTORS RESPONSIBILITY. 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 NEW LINES.
- 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, HAWAII ADMINISTRATIVE RULES OF THE STATE DEPARTMENT OF HEALTH.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO PLAN AND CONSTRUCT BEST MANAGEMENT PRACTICES (BMP) AS REQUIRED BY HIS OPERATIONS TO COMPLY WITH THE LAWS, STANDARDS, RULES, AND/OR POLICIES OF THE COUNTY, STATE, OR FEDERAL REGULATORY AGENCIES.
- THE CONTRACTOR SHALL NOTIFY ALL AGENCIES TO VERIFY THE ACTUAL LOCATION OF ALL UTILITIES IN THE PROJECT AREA PRIOR TO EXCAVATION. THE CONTRACTOR SHALL COORDINATE ALL WORK.
- THE CONTRACTOR SHALL RESTORE TO THEIR ORIGINAL OR BETTER CONDITION ALL IMPROVEMENTS AND VEGETATION DAMAGED AS A RESULT OF THE CONSTRUCTION, INCLUDING PAVEMENTS, EMBANKMENTS, CURBS, SIGNS, LANDSCAPING, STRUCTURES, UTILITIES, WALKWAYS, FENCES, ETC. UNLESS PROVIDED FOR SPECIFICALLY IN THE PROPOSAL, DEMOLITION AND RESTORATION OF EXISTING ITEMS SHALL BE INCIDENTAL.
- WHERE PEDESTRIAN WALKWAYS EXIST, THEY SHALL BE MAINTAINED IN PASSABLE CONDITION OR OTHER FACILITIES FOR PEDESTRIANS SHALL BE PROVIDED. TEMPORARY PASSAGEWAYS SHALL BE ACCESSIBLE PER 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN CHAPTER 2, SECTIONS 201.3 AND 206.1.
- EXISTING TOPOGRAPHIC SURVEY WAS CONDUCTED ON DEC. 22, 2017 BY CONTROLPOINT SURVEYING, INC. THIS TOPOGRAPHIC SURVEY WAS BASED ON THE BEST AVAILABLE INFORMATION AND THE CONTRACTOR MUST VERIFY IT IS ACCURATE PRIOR TO CONSTRUCTION.
- NO BLASTING SHALL BE ALLOWED ON THIS PROJECT.
- THE CONTRACTOR SHALL NOTIFY THE ONE CALL CENTER AT (866) 423-7287 AT LEAST 5 WORKING DAYS PRIOR TO THE START OF EXCAVATION OR TRENCHING.
- WORK INCIDENTAL TO THE CONTRACT AND NECESSARY TO COMPLETE THE PROJECT, ALTHOUGH NOT SPECIFICALLY REFERRED TO ON THE CONTRACT DOCUMENTS, SHALL BE FURNISHED AND PERFORMED BY THE CONTRACTOR.
- THE CONTRACTOR AGREES THAT HE 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, AND THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORK HOURS.
- THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS FROM APPROPRIATE GOVERNMENT AGENCIES.
- THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR UTILITIES SUCH AS ELECTRICITY, WATER, ETC. REQUIRED FOR HIS OPERATIONS AND ALL COSTS SHALL BE BORNE BY THE CONTRACTOR.
- THE CONTRACTOR SHALL COORDINATE WITH KIUC FOR THE ELECTRICAL IMPROVEMENT WORK PRIOR TO STARTING WORK AND PAY FOR ALL THE COSTS (INCLUDING CONNECTION CHARGES).
- GENERAL CONTRACTOR TO CONSTRUCT TEMPORARY BARRICADES DURING CONSTRUCTION, FOR THE PROTECTION OF LIFE, SAFETY AND PROPERTY.
- THE JOB SITE MUST BE LEFT IN A SAFE, SECURE CONDITION AT THE END OF EACH CONSTRUCTION WORK DAY. CLEAN UP AND REMOVE FROM THE JOB SITE ALL RUBBISH AND MAINTAIN THE PREMISES IN A CLEAN ORDERLY CONDITION AT ALL TIMES.

**GENERAL CONST. NOTES FOR DLNR PROJECTS (CONT.)**

- UPON COMPLETION OF CONSTRUCTION THE ENTIRE JOB SITE SHALL BE CLEANED OF ALL RUBBISH AND DEBRIS.
- ALL EXISTING UTILITIES, WHETHER OR NOT SHOWN ON THE PLANS, SHALL BE PROTECTED AT ALL TIMES BY THE CONTRACTOR DURING CONSTRUCTION AND ANY DAMAGE TO THEM SHALL BE REPAIRED AND PAID FOR BY THE CONTRACTOR.
- THE CONTRACTOR SHALL PROVIDE, INSTALL AND MAINTAIN ALL NECESSARY SIGNS, LIGHTS, FLARES, BARRICADES, MARKERS, CONES AND OTHER PROTECTIVE FACILITIES AND SHALL TAKE NECESSARY PRECAUTIONS FOR THE PROTECTION, CONVENIENCE AND SAFETY OF THE PUBLIC.
- ALL REQUIRED UTILITY ADJUSTMENTS SUCH AS MANHOLE AND/OR VALVE BOX FRAMES AND COVERS SHALL BE DONE BY THE CONTRACTOR.
- ALL STRIPING SHALL BE THERMOPLASTIC.
- PROVIDE THEFT-RESISTANT FASTENERS FOR ALL ACCESSORY MOUNTINGS. ALL FASTENERS SHALL BE STAINLESS STEEL WITH THEFT-RESISTANT TYPE HEADS OR NUTS.
- 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. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE STATE HISTORIC PRESERVATION DIVISION AT (808) 692-8015, WHICH WILL ASSESS THE SIGNIFICANCE OF THE FIND AND RECOMMEND THE APPROPRIATE MITIGATION MEASURES, IF NECESSARY.
- CONTRACTOR SHALL COORDINATE HIS OPERATIONS WITH THOSE OF OTHER CONTRACTORS WHO MAY BE EMPLOYED ON ADJACENT RELATED STATE PROJECTS AT THE SITE AND AVOID UNNECESSARY DELAY OR HINDERANCE IN THE PERFORMANCE OF THEIR RESPECTIVE CONTRACTS.
- CONSTRUCTION SITE IS WITHIN AN ACTIVE PARKING AREA FOR THE DIVISION OF BOATING AND OCEAN RECREATION'S (DOBOR) WAIKAEA BOAT RAMP. WAIKAEA BOAT RAMP SHALL REMAIN OPERATIONAL DURING CONSTRUCTION. TEMPORARY PARKING CLOSURES, UTILITY SHUTDOWNS, AND OTHER IMPACTS WHICH WOULD INTERRUPT OPERATIONS SHALL BE MINIMIZED. CONTRACTOR SHALL COORDINATE ON-SITE WORK WITH KAUAI DOBOR HARBOR MASTER WITH ANY INTERRUPTIONS PREVIOUSLY DESCRIBED. SINCE THE BOAT RAMP FACILITY SHALL REMAIN OPEN TO THE PUBLIC THROUGHOUT CONSTRUCTION, THE CONTRACTOR'S ATTENTION IS CALLED TO ALL PROVISIONS CONTAINED IN THESE CONTRACT DOCUMENTS REGARDING PUBLIC SAFETY.
- AT THE COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL HIRE AND PAY FOR A LICENSED SURVEY TO CERTIFY ALL IMPROVEMENTS INSTALLED IN THIS PROJECT ARE WITHIN THE STATE'S PROPERTY AND/OR WITHIN THE KIUC EASEMENT. THE COST SHALL BE CONSIDERED INCIDENTAL TO THE VARIOUS ITEMS IN THE BID PROPOSAL.

**WATER POLLUTION AND EROSION CONTROL NOTES:**

- GENERAL:**
  - 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.
  - THE CONTRACTOR SHALL FOLLOW THE GUIDELINES IN THE "INTERIM BEST MANAGEMENT PRACTICES MANUAL FOR CONSTRUCTION SITE FOR COUNTY OF KAUAI" APRIL 2004 IN DEVELOPING, INSTALLING AND MAINTAINING THE BEST MANAGEMENT PRACTICES (BMP'S) FOR THE PROJECT.
  - 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.
- WASTE DISPOSAL:**
  - 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 MATERIAL SHALL BE BURIED ONSITE. THE CONTRACTOR'S SUPERVISORY PERSONNEL SHALL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE OR 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.
  - 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 FOR FOLLOWED.
  - SANITARY WASTE:** ALL SANITARY WASTE SHALL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF ONCE PER WEEK, OR AS REQUIRED.

**WATER POLLUTION AND EROSION CONTROL NOTES (CONT.):**

- EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES:**
  - ALL CONTROL MEASURES SHALL BE INSPECTED AT LEAST ONCE A EACH WEEK AND WITHIN 24 HOURS FOLLOWING ANY RAINFALL EVENT OF 0.5 INCHES OR GREATER.
  - ALL MEASURES SHALL BE MAINTAINED IN GOOD WORKING ORDER. IF REPAIR IS NECESSARY, IT SHALL BE INITIATED WITHIN 24 HOURS AFTER THE INSPECTION.
  - BUILT UP SEDIMENT SHALL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE FENCE.
  - SILT SCREEN OF FENCE SHALL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, TO VERY 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.
  - TEMPORARY AND PERMANENT SEEDING AND PLANTING SHALL BE INSPECTED FOR BARE SPOTS, WASH OUTS AND HEALTHY GROWTH.
  - 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.
  - 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.
  - 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.
  - TEMPORARY EROSION CONTROLS SHALL NOT BE REMOVED BEFORE PERMANENT EROSION CONTROLS ARE IN-PLACE AND ESTABLISHED.

**GOOD HOUSE KEEPING 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 OF THE CONSTRUCTION CONTRACTOR'S SITE-SPECIFIC BMP PLAN.

CONCRETE	FERTILIZERS
DETERGENTS	PETROLEUM BASED PRODUCTS
PAINTS (ENAMEL & LATEX)	CLEANING SOLVENTS
METAL STUDS	WOOD
  - 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 PRODUCT AS IS REQUIRED TO DO THE JOB.
  - 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.
  - PRODUCTS SHALL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURE'S LABEL.
  - SUBSTANCES SHALL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.
  - A PRODUCT SHALL BE USED UP COMPLETELY BEFORE DISPOSING OF THE CONTAINER.
  - MANUFACTURER'S RECOMMENDATION FOR PROPER USE AND DISPOSAL SHALL BE FOLLOWED.
  - THE CONTRACTOR SHALL CONDUCT A DAILY INSPECTION TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS ONSITE.
- HAZARDOUS MATERIAL POLLUTION PREVENTION PLAN:**
  - PRODUCTS SHALL BE KEPT IN THEIR ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE.
  - ORIGINAL LABELS AND MATERIALS SAFETY DATA SHEETS (MSDS) SHALL BE RETAINED AND MADE AVAILABLE TO DLNR UPON REQUEST.
  - SURPLUS PRODUCTS SHALL BE DISPOSED OF ACCORDING TO MANUFACTURER'S INSTRUCTIONS OR LOCAL AND STATE RECOMMENDED REGULATIONS.
- ONSITE AND OFFSITE PRODUCTS SPECIFIC PLANS:**

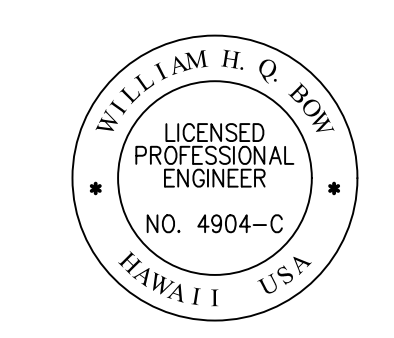
THE FOLLOWING PRODUCT SPECIFIC PRACTICES SHALL BE FOLLOWED ONSITE:

  - 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.

**WATER POLLUTION AND EROSION CONTROL NOTES (CONT.):**

- FERTILIZERS: APPLY FERTILIZED 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.
  - PAINTS: SEAL AND STORE ALL CONTAINER 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.
  - 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.
- D. SPILL CONTROL PLAN:**
- POST A SPILL PREVENTION PLAN TO INCLUDE MEASURES TO PREVENT AND CLEAN UP EACH SPILLWAY.
  - 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 PERSONAL IN THE MATERIAL STORAGE AREA AND IN THE OFFICE TRAILER ONSITE.
  - CLEARLY POST MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP. MAKE SITE PERSONNEL AWARE OF THE PROCEDURES AND THE LOCATION OF INFORMATION AND CLEANUP SUPPLIES.
  - KEEP MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP IN THE MATERIAL STORAGE AREA ONSITE.
  - CLEAN UP ALL SPILL IMMEDIATELY AFTER DISCOVERY.
  - KEEP THE SPILL AREA WELL VENTILATED. PERSONNEL SHALL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH HAZARDOUS SUBSTANCE.
  - REPORT SPILLS OF TOXIC HAZARDOUS MATERIAL TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF SIZE.

Plotfile: Mon, 22 Apr 2024 - 10:04am By: MICHANG File Name: H:\P\2024\21061.00 DLNR DAR Baseyard\06 CAD\0-C-01 to C-002 DLNR DAR Baseyard - General Notes.dwg

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
<b>STATE OF HAWAII</b> <b>DEPARTMENT OF LAND AND NATURAL RESOURCES</b> <b>ENGINEERING DIVISION</b> <b>DIVISION OF AQUATIC RESOURCES</b> <b>KAUAI WORK STATION SITE WORK</b> <b>GENERAL CONSTRUCTION NOTES - 1</b>					
		DESIGNED: MF DRAWN: MC CHECKED: BB APPROVED: <i>Carty Chang</i> CHIEF ENGINEER			
SIGNATURE THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION		SUBMITTED: - <i>[Signature]</i> DATE: APRIL 2024 SCALE: AS NOTED		DRAWING NO. <b>C-001</b>	
E-signed 2024-04-23 11:54AM HST carty.s.chang@hawaii.gov State of Hawaii Chief Engineer					

**GRADING NOTES:**

TEMPORARY DUST CONTROL MEASURES FOR GRADING

1. THE GRADED OR PROJECT SITE THAT IS CLEARED OF VEGETATION SHALL BE KEPT DAMP WITH WATER CONTINUOUSLY FOR SEVEN (7) DAYS A WEEK. AT THE END OF EACH DAY, THE SITE SHALL BE SUFFICIENTLY DAMPENED WITH WATER ON A CONTINUAL BASIS SO THAT THE SITE WILL REMAIN MOISTENED DURING THE NIGHT.
2. THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS SO THAT EXCAVATION, EMBANKMENT, AND IMPORTED MATERIAL SHALL BE DAMPENED WITH WATER ON A CONTINUAL BASIS TO PREVENT DUST PROBLEMS.

TEMPORARY DUST CONTROL MEASURES FOR GRADING

1. TEMPORARY VEGETATIVE COVER SHALL BE PLANTED WITHIN A PERIOD OF 30 CALENDAR DAYS AFTER THE SITE HAS BEEN GRADED OR BARED OF VEGETATION OR IF THE SITE WILL BE SUSPENDED FOR MORE THAN 30 CALENDAR DAYS.
2. TEMPORARY VEGETATIVE COVER SHALL CONSIST OF 40 LBS. COMMON RYE GRASS SEED PER ACRE, 400 LBS. PER ACRE 10-10-10 OR EQUIVALENT FERTILIZER WORKED INTO THE SEED BED BEFORE PLANTING. TEMPORARY SPRINKLER SYSTEM IS TO BE INSTALLED CONCURRENTLY WITH ALL PLANTINGS AND MAINTENANCE OF GRASS SHALL CONFORM TO THE "HAWAII STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2005" AND ITS AMENDMENTS.

PERMANENT EROSION CONTROL MEASURES FOR GRADING

1. THE CONTRACTOR SHALL GRASS THE ENTIRE PROJECT SITE, EXCEPT PAVED AREAS WITH BERMUDA GRASS SPRIGS. THE GRASS SHALL BE PLANTED, FERTILIZED, AND MAINTAINED IN ACCORDANCE WITH THE "HAWAII STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2005" AND ITS AMENDMENTS.
2. THE CONTRACTOR SHALL GRASS ALL EXPOSED AREAS THAT HAVE BEEN CONSTRUCTED TO FINAL GRADES WITHIN A PERIOD OF 30 CALENDAR DAYS.
3. IN LIEU OF GRASS SPRIGS (NOTE 1), THE CONTRACTOR MAY USE HYDROMULCH WITH SEEDINGS AND IRRIGATION SPRINKLER SYSTEM.

GRADING PHASES

1. WHEN GRADING WORK IS DONE IN PHASES, THE ENGINEER MUST ACCEPT THE COMPLETED PHASE PRIOR TO START OF WORK ON THE NEXT PHASE. EVEN AFTER A COMPLETED PHASE HAS BEEN ACCEPTED, THE GRASSING OR OTHER MEANS OF STABILIZATION MUST BE MAINTAINED UNTIL PROJECT COMPLETION.

**ENVIRONMENTAL CONTROL NOTES:**

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 CONTRACTOR 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 GRUB 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. 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 DLNR SHALL BE PAYABLE BY THE CONTRACTOR.
5. 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.
6. 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.
7. 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.

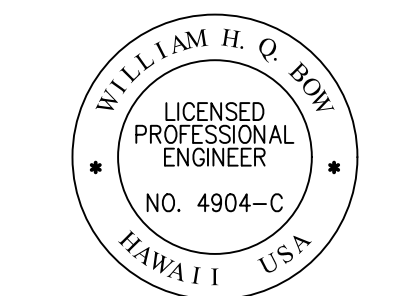
**WATER NOTES**

1. UNLESS OTHERWISE SPECIFIED, ALL MATERIALS AND CONSTRUCTION OF WATER FACILITIES AND APPURTENANCES SHALL BE IN ACCORDANCE WITH THE "WATER SYSTEM STANDARDS", 2002, AS ADOPTED BY THE DEPARTMENT OF WATER, COUNTY OF KAUA'I, INCLUDING ALL SUBSEQUENT AMENDMENTS AND ADDITIONS.
2. THE LOCATION OF EXISTING WATER MAINS AND APPURTENANCES SHOWN ON THE PLANS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS IN THE FIELD. EXCAVATION AROUND ANY EXISTING WATER MAIN SHALL BE DONE BY HAND.
3. THE CONTRACTOR SHALL PROVIDE UNOBSTRUCTED ACCESS TO EXISTING FIRE HYDRANTS, VALVES AND WATER METERS AT ALL TIMES.
4. THE CONTRACTOR SHALL SECURE ALL EXCAVATIONS IN ACCORDANCE WITH OSHA REGULATIONS.
5. THERE SHALL BE NO PHYSICAL CONNECTION BETWEEN A PUBLIC OR PRIVATE POTABLE WATER SYSTEM AND A NON-POTABLE WATER SYSTEM, SEWER, OR APPURTENANCE THERETO WHICH COULD PERMIT THE PASSAGE OF ANY SEWAGE OR POLLUTED WATER INTO THE POTABLE WATER SUPPLY.
6. WARNING TAPE SHALL BE IN ACCORDANCE WITH DIVISION 200, SECTION 212.08 OF THE "WATER SYSTEM STANDARDS". THE WARNING TAPE SHALL BE 4-MIL THICK, NON-METALLIC, ACID AND ALKALI RESISTANT POLYETHYLENE AND 6-INCHES WIDE WITH MINIMUM STRENGTH OF 1,750 PSI LENGTHWISE AND 1,500 PSI CROSSWISE. TAPE COLOR SHALL BE "SAFETY PRECAUTION BLUE" AND SHALL BEAR A CONTINUOUS PRINTED INSCRIPTION "CAUTION WATER LINE BURIED BELOW". INSCRIPTION SHALL BE 2-INCHES HIGH, BLACK TEXT.
7. UNLESS OTHERWISE DIRECTED, PRIOR TO THE CONNECTION OF ANY PIPELINE TO THE EXISTING MAIN, THE PIPELINE INSTALLED SHALL BE CLEANED, PRESSURE TESTED, CHLORINATED, FLUSHED, AND SAMPLED IN ACCORDANCE WITH DIVISION 300, SECTIONS 302.27 TO 302.29 OF THE "WATER SYSTEM STANDARDS"
8. POLYURETHANE FOAM "PIGS" SHALL BE "PUSHED" THROUGH THE LENGTH OF THE INSTALLED PIPELINE USING PRESSURIZED WATER.
9. THE CONTRACTOR SHALL TAKE ALL NECESSARY COMPACTION TESTS WHILE THE WATERLINE TRENCH IS BEING BACKFILLED AND WHILE THE SUBBASE/BASECOURSE IS BEING PLACED. IF THE TEST RESULTS INDICATE THAT ADDITIONAL COMPACTION IS REQUIRED, THE CORRECTIVE WORK SHALL BE COMPLETED BEFORE ANY ADDITIONAL TRENCH EXCAVATION OR PLACING OF SUBBASE/BASECOURSE IS ALLOWED.

**HISTORIC PRESERVATION NOTES**

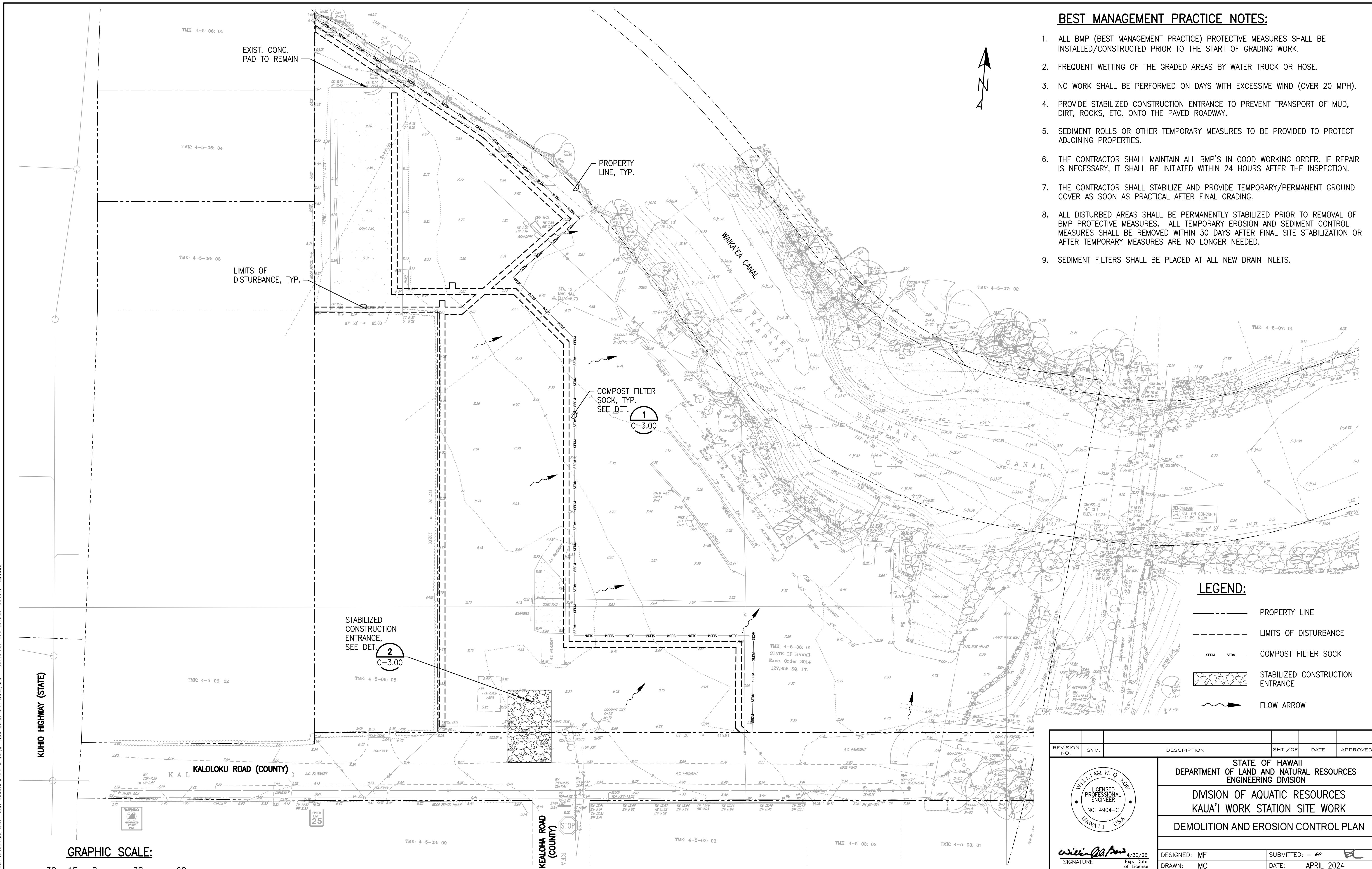
1. SHOULD HISTORIC REMAINS SUCH AS ARTIFACTS, BURIALS, CONCENTRATIONS OF SHELL OR CHARCOAL BE ENCOUNTERED DURING CONSTRUCTION ACTIVITIES, WORK SHALL CEASE IMMEDIATELY IN THE IMMEDIATE VICINITY OF THE FIND AND THE FIND SHALL BE PROTECTED FROM FURTHER DAMAGE. THE CONTRACTOR SHALL CORDON OFF THE AREA AND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

Plotfile: Mon, 22 Apr 2024 - 10:04am By: MMCHANG  
 File Name: H:\FY2021\21061.00 DLNR DAR Baseyard\06 CADD\C-0.01 to C-0.02 DLNR DAR Baseyard - General Notes.dwg

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
					
<b>STATE OF HAWAII</b> <b>DEPARTMENT OF LAND AND NATURAL RESOURCES</b> <b>ENGINEERING DIVISION</b>					
<b>DIVISION OF AQUATIC RESOURCES</b> <b>KAUA'I WORK STATION SITE WORK</b>					
<b>GENERAL CONSTRUCTION NOTES - 2</b>					
DESIGNED: MF			SUBMITTED: <i>[Signature]</i>		
DRAWN: MC			DATE: APRIL 2024		
CHECKED: BB			SCALE: AS NOTED		
APPROVED: <i>[Signature]</i> Carty Chang E-signed 2024-04-23 11:54AM HST carty.s.chang@hawaii.gov			DRAWING NO. <b>C-0.02</b>		
CHIEF ENGINEER State of Hawaii			Chief Engineer		

**BEST MANAGEMENT PRACTICE NOTES:**

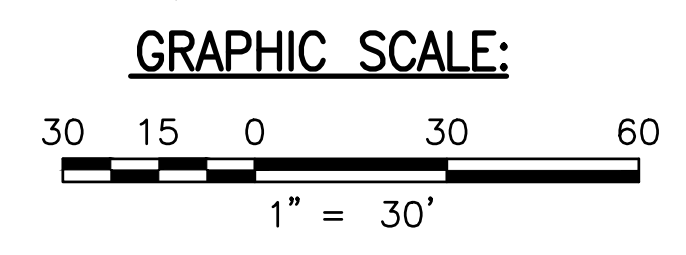
1. ALL BMP (BEST MANAGEMENT PRACTICE) PROTECTIVE MEASURES SHALL BE INSTALLED/CONSTRUCTED PRIOR TO THE START OF GRADING WORK.
2. FREQUENT WETTING OF THE GRADED AREAS BY WATER TRUCK OR HOSE.
3. NO WORK SHALL BE PERFORMED ON DAYS WITH EXCESSIVE WIND (OVER 20 MPH).
4. PROVIDE STABILIZED CONSTRUCTION ENTRANCE TO PREVENT TRANSPORT OF MUD, DIRT, ROCKS, ETC. ONTO THE PAVED ROADWAY.
5. SEDIMENT ROLLS OR OTHER TEMPORARY MEASURES TO BE PROVIDED TO PROTECT ADJOINING PROPERTIES.
6. THE CONTRACTOR SHALL MAINTAIN ALL BMP'S IN GOOD WORKING ORDER. IF REPAIR IS NECESSARY, IT SHALL BE INITIATED WITHIN 24 HOURS AFTER THE INSPECTION.
7. THE CONTRACTOR SHALL STABILIZE AND PROVIDE TEMPORARY/PERMANENT GROUND COVER AS SOON AS PRACTICAL AFTER FINAL GRADING.
8. ALL DISTURBED AREAS SHALL BE PERMANENTLY STABILIZED PRIOR TO REMOVAL OF BMP PROTECTIVE MEASURES. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER TEMPORARY MEASURES ARE NO LONGER NEEDED.
9. SEDIMENT FILTERS SHALL BE PLACED AT ALL NEW DRAIN INLETS.



**LEGEND:**

- PROPERTY LINE
- - - - - LIMITS OF DISTURBANCE
- SEEM—SEEM— COMPOST FILTER SOCK
- [Pattern Box] STABILIZED CONSTRUCTION ENTRANCE
- ~> FLOW ARROW

REVISION NO.	SYM.	DESCRIPTION	SHT. / OF	DATE	APPROVED
<p>STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION</p> <p>DIVISION OF AQUATIC RESOURCES KAUAI WORK STATION SITE WORK</p> <p>DEMOLITION AND EROSION CONTROL PLAN</p>					
<p>DESIGNED: MF</p>		<p>SUBMITTED: [Signature]</p>		<p>DATE: APRIL 2024</p>	
<p>DRAWN: MC</p>		<p>CHECKED: BB</p>		<p>SCALE: AS NOTED</p>	
<p>APPROVED: [Signature]</p>		<p>APPROVED: Carty Chang E-signed 2024-04-23 11:54AM HST carty.s.chang@hawaii.gov</p>		<p>DRAWING NO. C-1.00</p>	
<p>CHIEF ENGINEER State of Hawaii</p>		<p>CHIEF ENGINEER State of Hawaii</p>		<p>CHIEF ENGINEER State of Hawaii</p>	

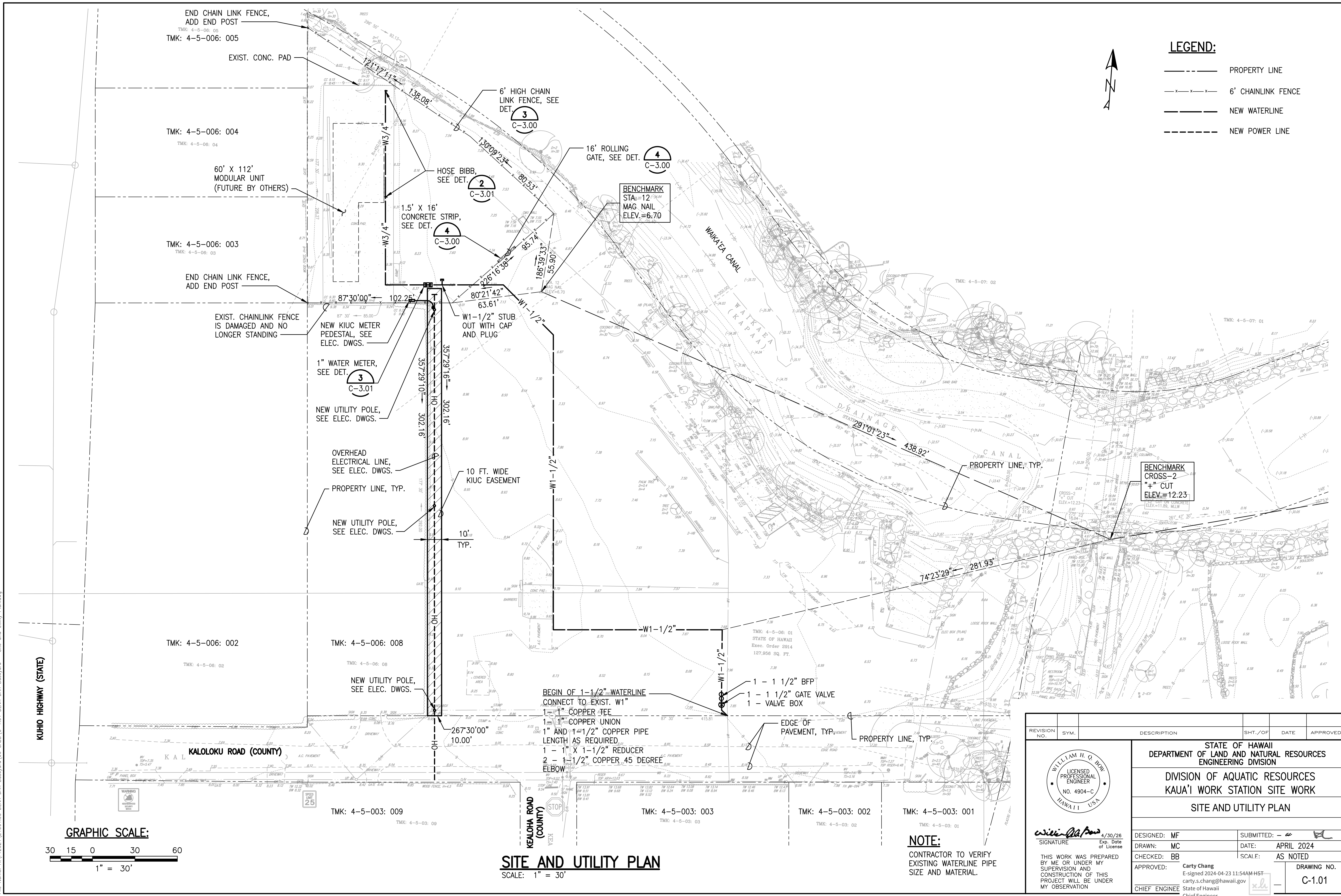


**DEMOLITION AND EROSION CONTROL PLAN**  
SCALE: 1" = 30'

Plotlet: Mon, 22 Apr 2024 - 10:04am By: MICHANG  
 File Name: H:\FY2022\21061.00 DLNR DAR Baseyard - Demolition and Erosion Control Plan.dwg

**LEGEND:**

- PROPERTY LINE
- x-x-x- 6' CHAINLINK FENCE
- NEW WATERLINE
- NEW POWER LINE



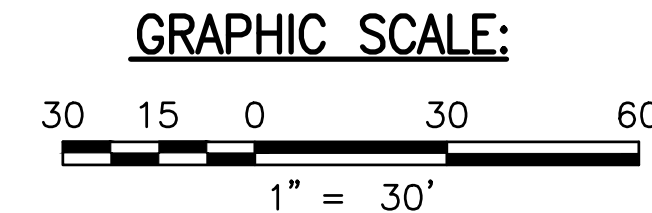
**BENCHMARK  
CROSS-2  
"+ " CUT  
ELEV.=12.23**

**BENCHMARK  
STA. 12  
MAG NAIL  
ELEV.=6.70**

**BEGIN OF 1-1/2" WATERLINE  
CONNECT TO EXIST. W1"  
1 - 1" COPPER TEE  
1 - 1" COPPER UNION  
1" AND 1-1/2" COPPER PIPE  
LENGTH AS REQUIRED  
1 - 1" X 1-1/2" REDUCER  
2 - 1-1/2" COPPER 45 DEGREE  
ELBOW**

**1 - 1 1/2" BFP  
1 - 1 1/2" GATE VALVE  
1 - VALVE BOX**

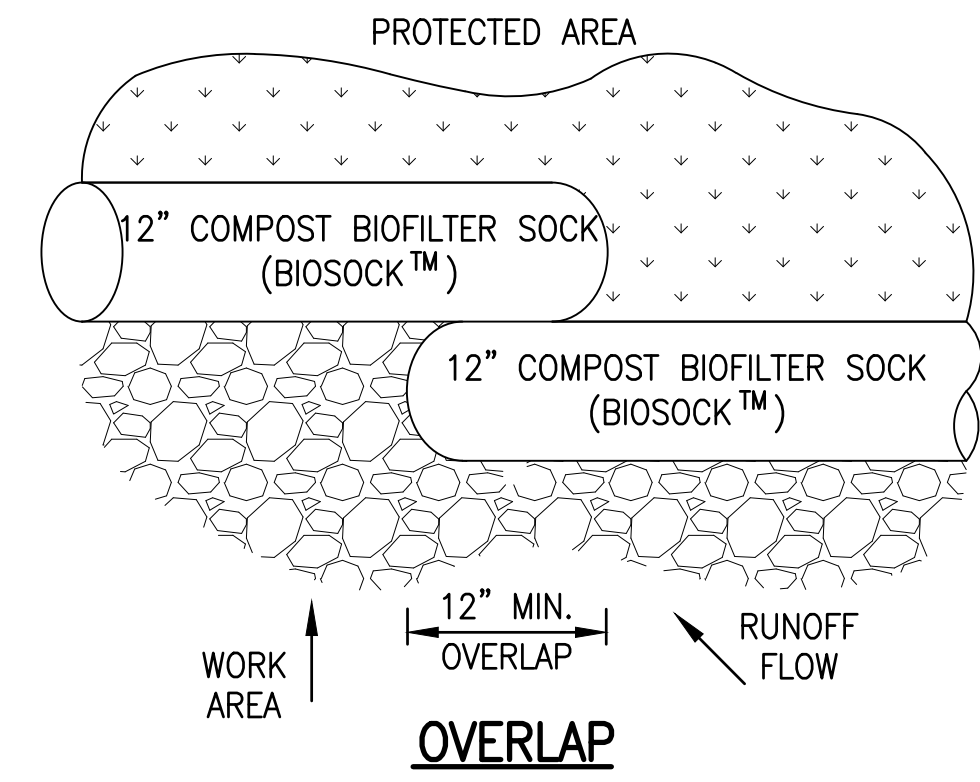
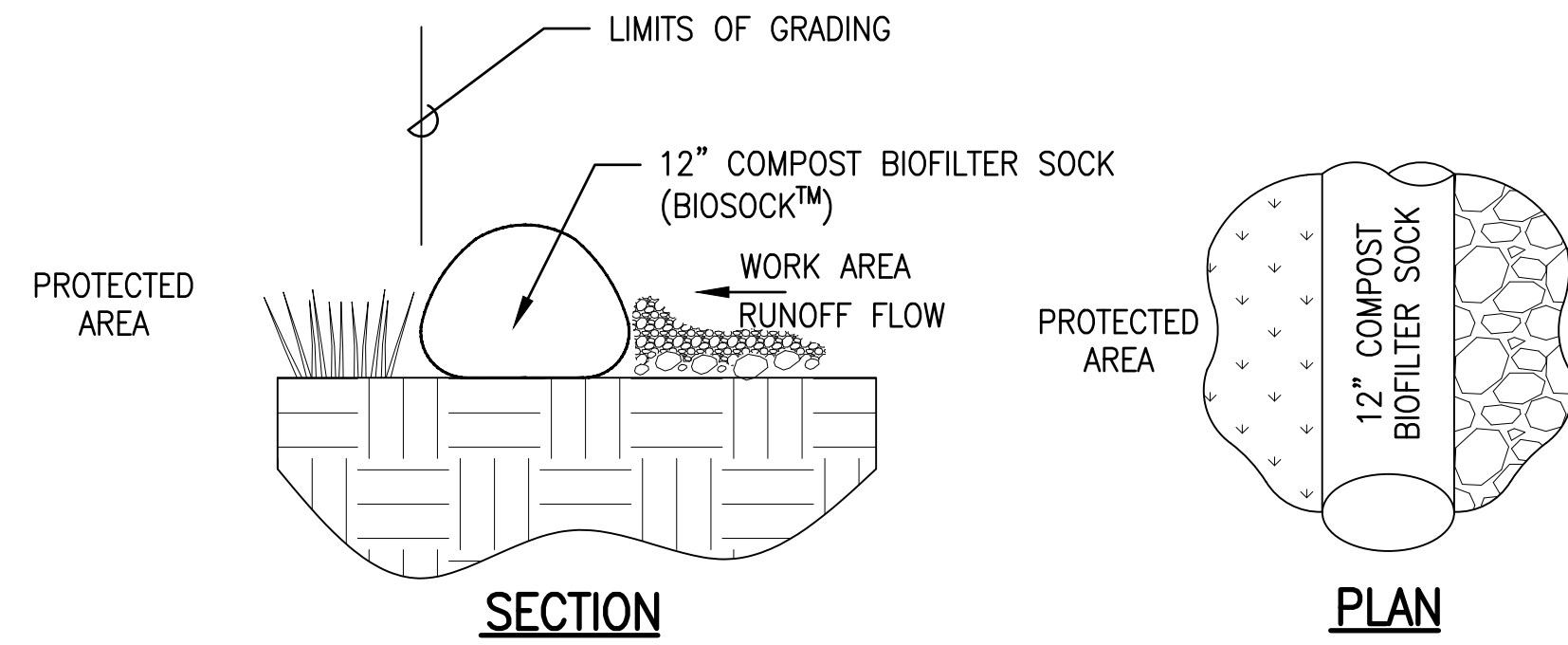
**NOTE:  
CONTRACTOR TO VERIFY  
EXISTING WATERLINE PIPE  
SIZE AND MATERIAL.**



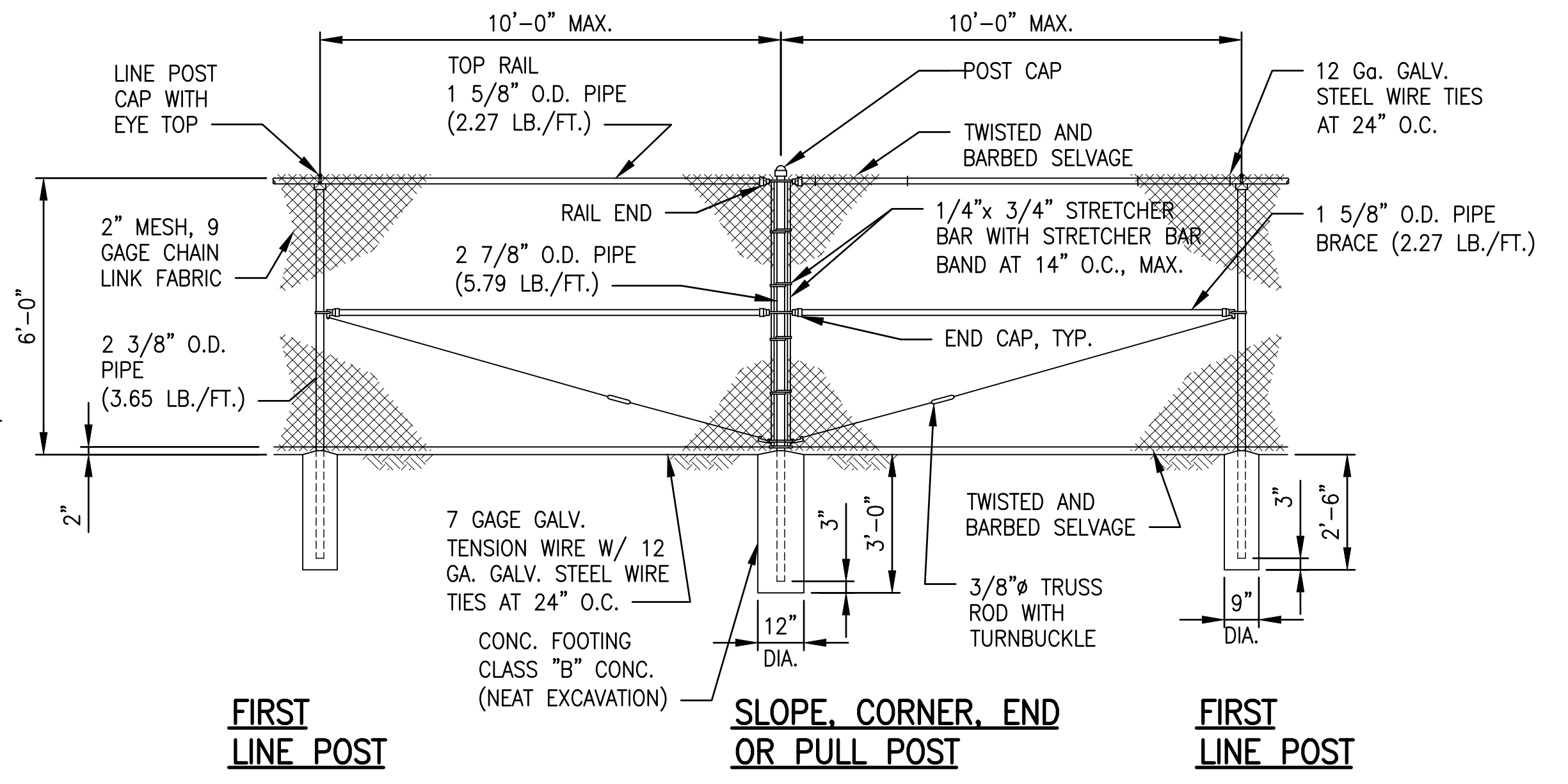
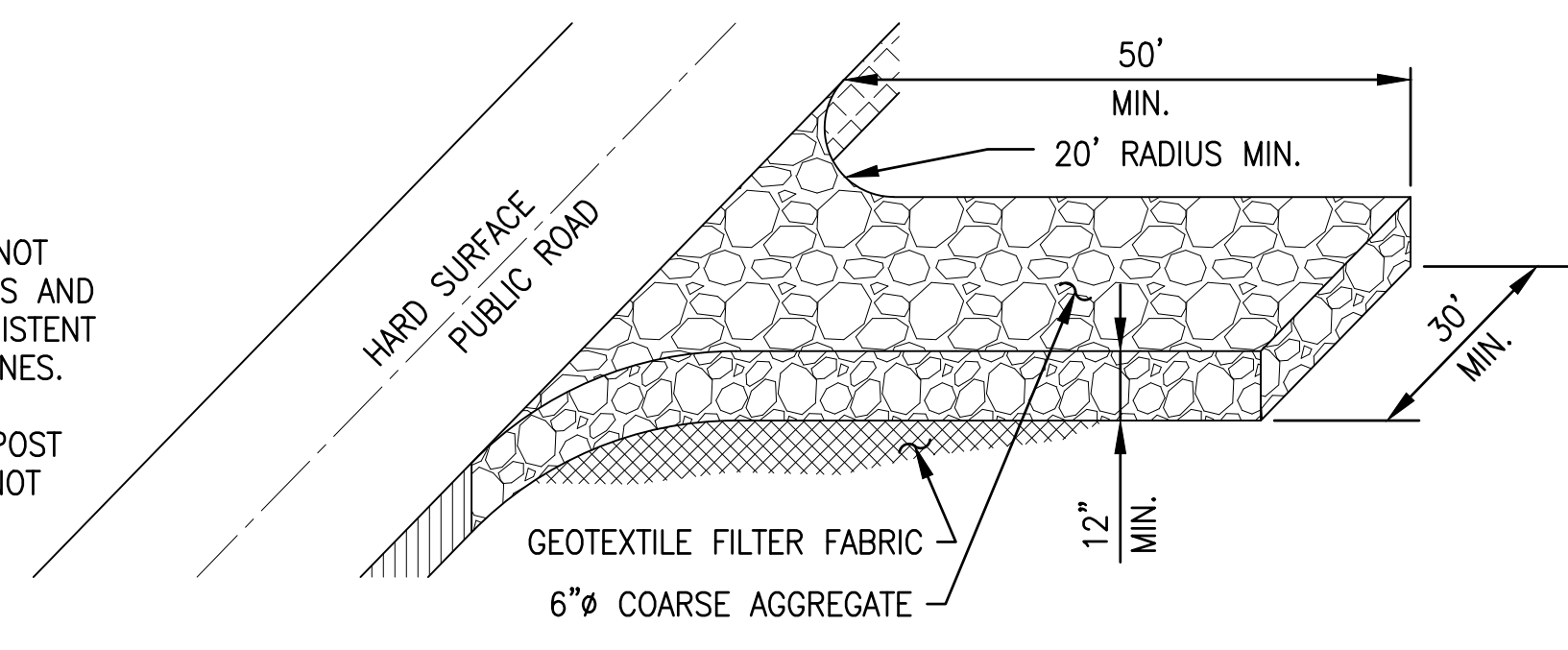
**SITE AND UTILITY PLAN**  
SCALE: 1" = 30'

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
<p>STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION</p> <p>DIVISION OF AQUATIC RESOURCES KAUA'I WORK STATION SITE WORK</p> <p>SITE AND UTILITY PLAN</p>					
<p>DESIGNED: MF</p>		<p>SUBMITTED: <i>[Signature]</i></p>		<p>DATE: APRIL 2024</p>	
<p>DRAWN: MC</p>		<p>SCALE: AS NOTED</p>		<p>DRAWING NO. C-1.01</p>	
<p>CHECKED: BB</p>		<p>APPROVED: <i>[Signature]</i> Carty Chang E-signed 2024-04-23 11:54AM HST carty.s.chang@hawaii.gov</p>		<p>CHIEF ENGINEER State of Hawaii</p>	
<p>CHIEF ENGINEER State of Hawaii</p>		<p>CHIEF ENGINEER</p>		<p>5 OF 9 SHEETS</p>	

Plotfile: Mon, 22 Apr 2024 - 10:05am By: MICHANG  
 File Name: H:\FY2022\21061.00 DLNR DAR Baseyard - Site and Utility Plan.dwg



- NOTES:**
1. COMPOST SHALL NOT CONTAIN BIOSOLIDS AND SHOULD BE CONSISTENT WITH EPA GUIDELINES.
  2. STAKING OF COMPOST FILTER SOCK IS NOT REQUIRED.



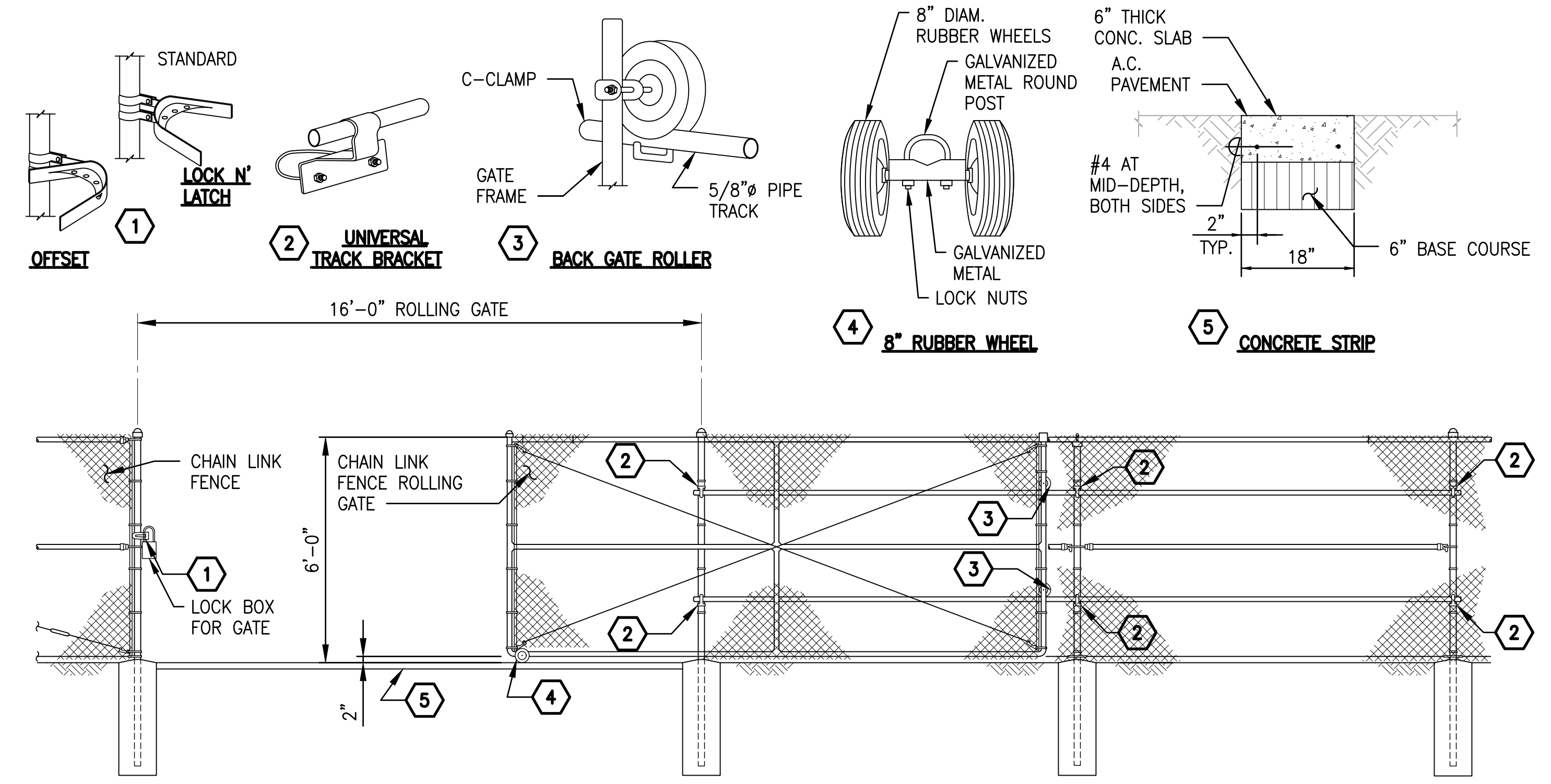
**NOTES:**

1. POSTS AND BRACES SHALL BE SCHEDULE 40 (STANDARD WEIGHT) PIPE. SIZES SPECIFIED ARE OUTSIDE DIAMETER.
2. ALL FENCING MATERIAL SHALL BE GALVANIZED STEEL.
3. TOP RAIL COUPLINGS SHALL BE LOCATED WITHIN 6" OF LINE POST.
4. TOP OF CONCRETE FOOTING SHALL BE CROWNED TO SHED WATER.

**1 COMPOST FILTER SOCK DETAIL**  
NOT TO SCALE

**2 STABILIZED CONSTRUCTION ENTRANCE**  
NOT TO SCALE

**3 6 FT HIGH CHAIN LINK FENCE**  
NOT TO SCALE



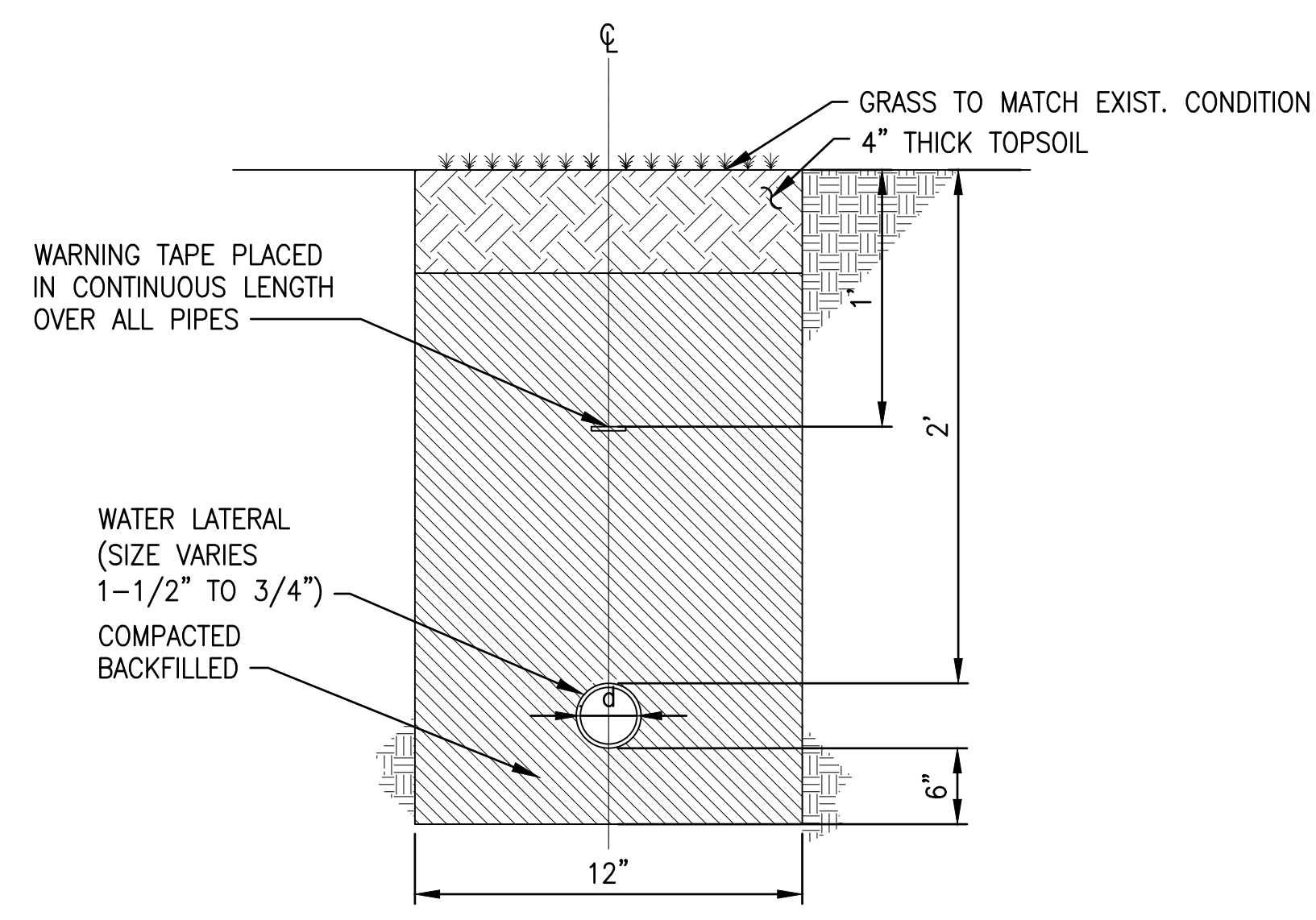
**ROLLING GATE NOTES:**

1. INSTALL DOUBLE WHEEL ON GATE AND BACK GATE ROLLERS WITH C-CLAMPS.
2. INSTALL UNIVERSAL TRACK BRACKETS (SET TOP END BRACKET UPSIDE DOWN ( 2 ) ON POSTS AND MEASURE LENGTHS TO CUT THE 5/8" PIPE TRACK, CUT PIPE TRACK AND INSTALL WITH UNIVERSAL TRACK BRACKETS. SET TWO PIPE TRACKS PARALLEL ABOUT ONE FOOT FROM THE TOP AND BOTTOM OF THE POSTS.
3. PADLOCK SHALL BE 5 PIN TUMBLER CYLINDER TYPE WITH BRASS CASE AND A 5/16" DIA. HARDENED STEEL SHACKLE. PADLOCKS SHALL BE KEYED DIFFERENTLY BUT MASTER-KEYED TO THE FENCE SYSTEM. TWO MASTER KEYS SHALL BE PROVIDED. PADLOCK SHALL BE ARRANGED TO BE ACCESSIBLE FROM BOTH SIDES OF THE GATE, REGARDLESS OF LATCHING ARRANGEMENT.
4. CHAIN LINK FENCE ROLLING GATE SHALL BE SINGLE OVERHEAD, ZINC COATED STEEL WITH ALL FRAMING AND FABRIC SAME AS FENCE. PROVIDE INTERMEDIATE MEMBERS AS NECESSARY TO PROVIDE RIGID CONSTRUCTION FREE FROM SAG OR TWIST. NO FIELD WELDING IS PERMITTED.

**4 ROLLING GATE**  
NOT TO SCALE

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
<p>STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION</p> <p>DIVISION OF AQUATIC RESOURCES KAUA'I WORK STATION SITE WORK</p> <p>MISCELLANEOUS DETAILS - 1</p>					
		<p>DESIGNED: MF DRAWN: MC CHECKED: BB APPROVED: Carty Chang E-signed 2024-04-23 11:54AM HST carty.s.chang@hawaii.gov State of Hawaii Chief Engineer</p>			
<p>SIGNATURE: <i>William H. O. Bow</i> Exp. Date of License: 4/30/26</p> <p>THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION</p>		<p>SUBMITTED: - DATE: APRIL 2024 SCALE: AS NOTED</p>		<p>DRAWING NO. <b>C-300</b></p>	

Plotfile: Mon, 22 Apr 2024 - 10:05am By: MMCHANG  
 File Name: H:\V2024\21061.00 DLNR DAR Baseyard\06 CAD\3-00 DLNR DAR Baseyard - Miscellaneous Details.dwg



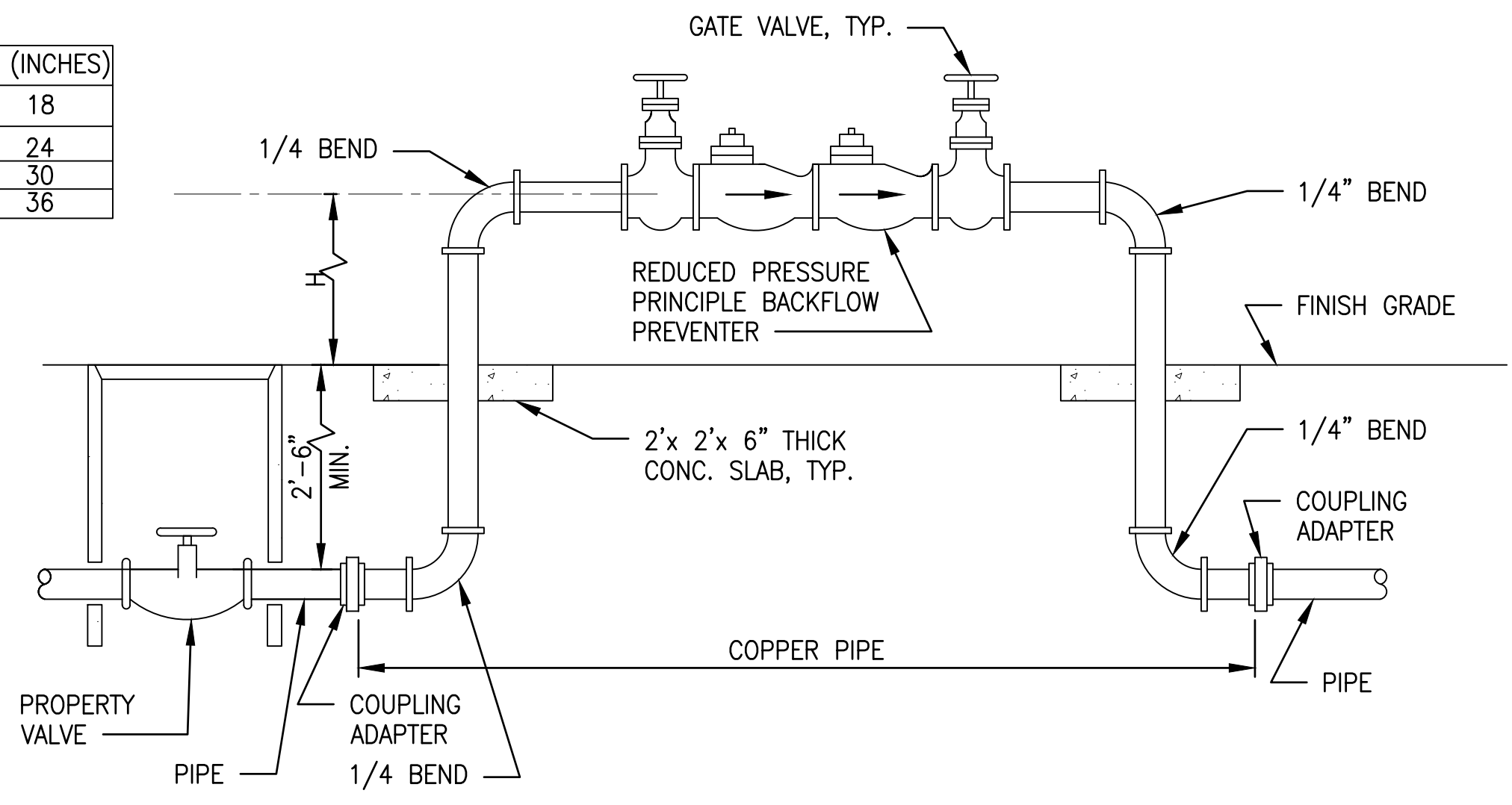
TYPICAL SECTION

**1 WATERLINE TRENCH DETAIL**  
NOT TO SCALE

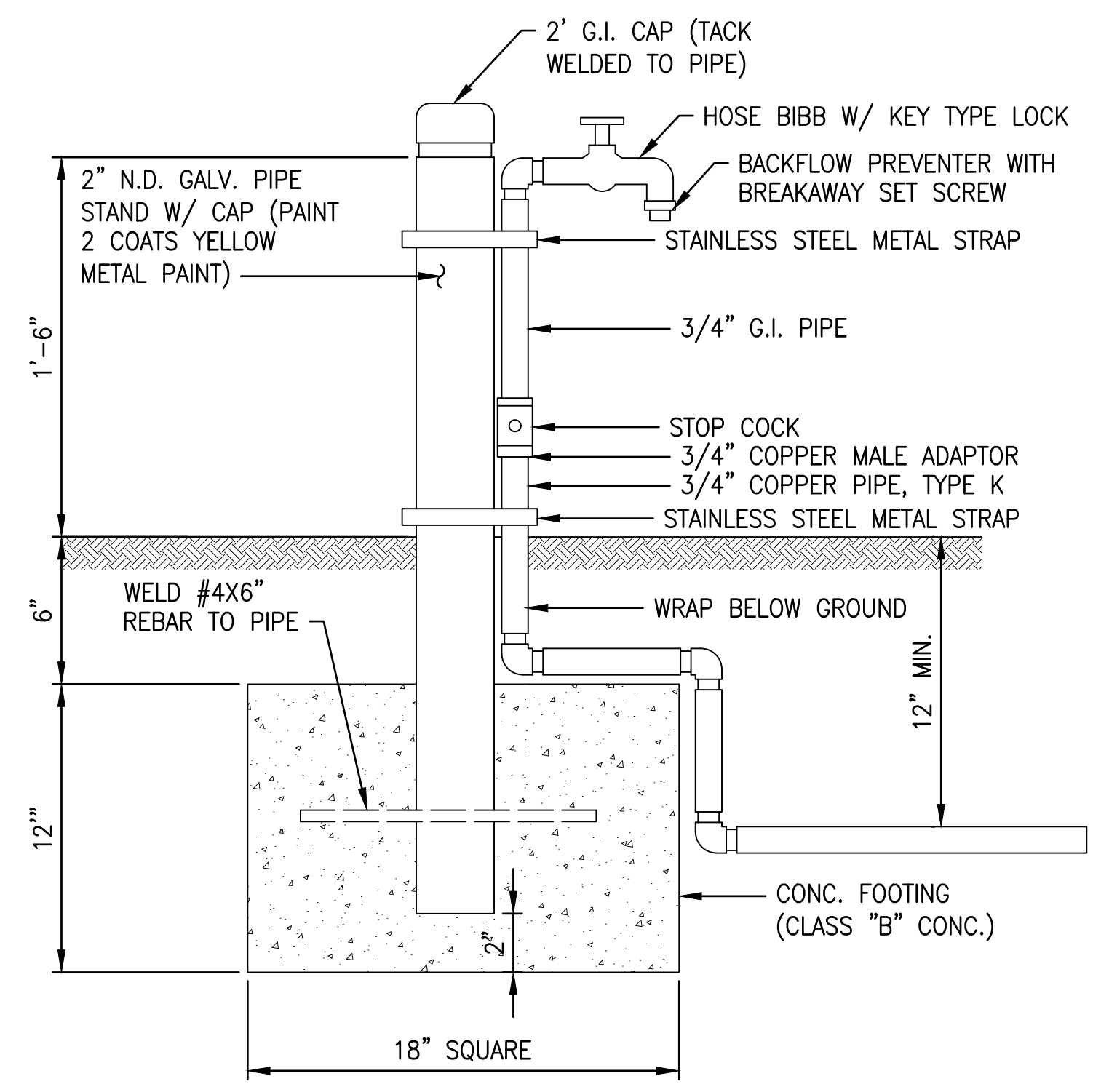
NOTES:

1. AT NO TIME SHALL THE BOTTOM OF THE BACKFLOW PREVENTION ASSEMBLY BE LESS THAN 12" ABOVE GROUND, FLOOR, OR FLOOD LEVEL NOR MORE THAN 48" ABOVE AFOREMENTIONED GRADES.
2. THE BACKFLOW PREVENTION ASSEMBLY SHALL BE INSTALLED AFTER THE WATER METER PRIOR TO ANY TEES AND BRANCHES.
3. WHENEVER BACKFLOW PREVENTION ASSEMBLY IS LOCATED 5' OR MORE FROM THE WATER METER, INSTALL CONCRETE JACKET BETWEEN WATER METER AND BACKFLOW PREVENTION ASSEMBLY TO AVOID POTENTIAL CROSS CONNECTION.
4. THE BACKFLOW PREVENTION ASSEMBLY SHALL BE INSTALLED PRIOR TO ISSUANCE OF WATER METER OR ACTIVATION OF WATER SERVICE.
5. REFER TO DIVISION 100, SECTION 107.1 FOR ADDITIONAL REQUIREMENTS AND TYPE OF BACKFLOW PREVENTER NEEDED.

SIZE (INCHES)	H (INCHES)
1/2 TO 1-1/2	18
2 TO 3	24
4 TO 6	30
8 TO 10	36



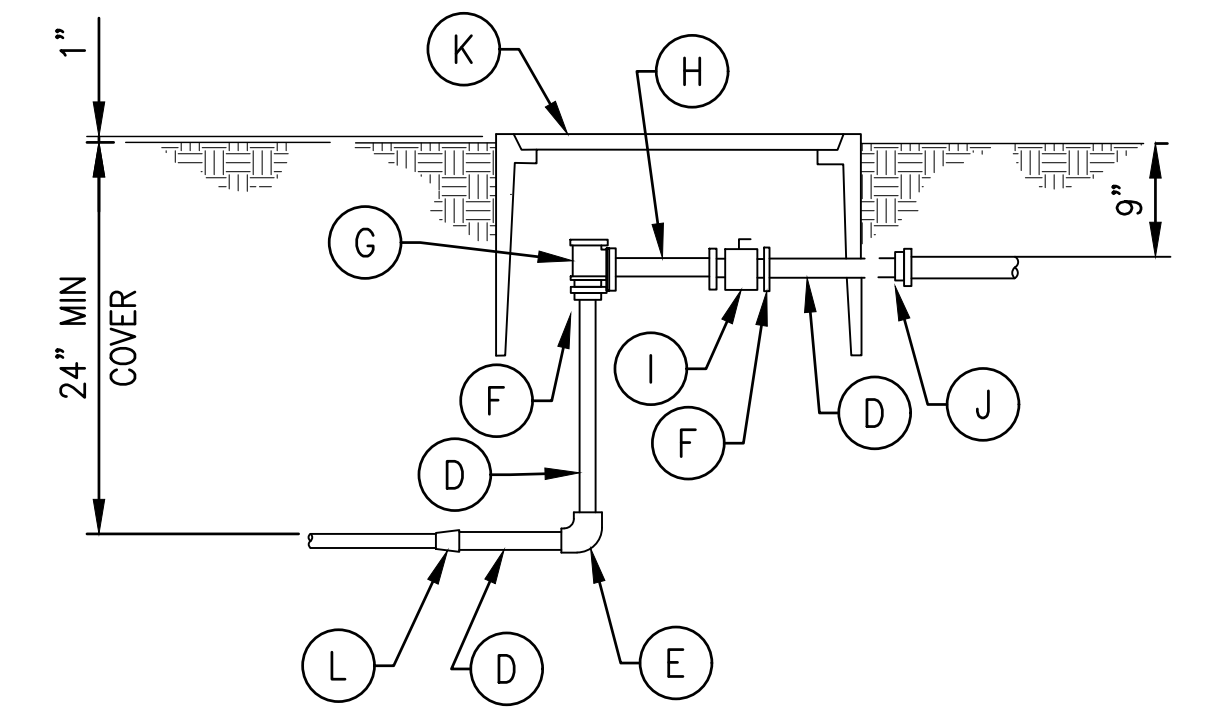
**4 BACKFLOW PREVENTER DETAIL**  
NOT TO SCALE



**2 HOSE BIBB DETAIL**  
NOT TO SCALE

ITEM	DESCRIPTION	SIZE
D	COPPER TUBE TYPE "K" SOFT	1"
E	90° COPPER ELBOW	1"
F	COPPER MALE ADAPTER	1"
G	ANGLE BALL VALVE (FORD BA13-444W OR APPROVED EQUAL)	1"
H	WATER METER	1"
I	BALL VALVE(FORD B13-444W W/HT 34 OR APPROVED EQUAL)	1"
J	COPPER 1-1/2" X 1" REDUCER	1 1/2"
K	TYPE "X" CONC. METER BOX W/ C.I. COVER	---
L	COPPER 1" X 3/4" REDUCER	1"

**SCHEDULE OF FITTINGS**



**3 ONE INCH METER PROFILE AND MATERIALS LIST**  
NOT TO SCALE

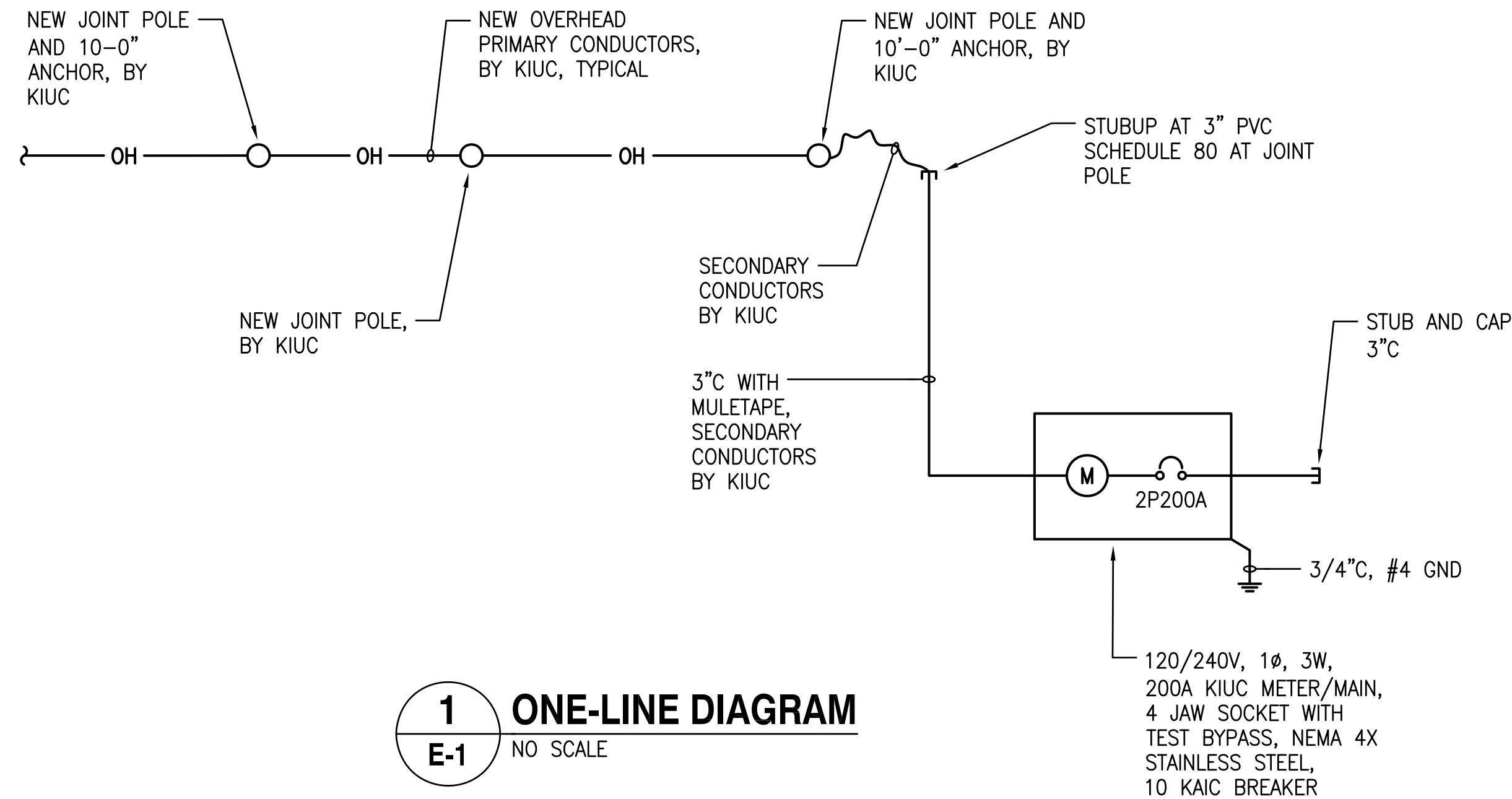
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 File Name: H:\P\2024\21061.00 DLNR DAR Baseyard\06 CADD\C-3.00 DLNR DAR Baseyard - Miscellaneous Details.dwg

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION DIVISION OF AQUATIC RESOURCES KAUAI WORK STATION SITE WORK MISCELLANEOUS DETAILS - 2					
		DESIGNED: MF DRAWN: MC CHECKED: BB APPROVED: Carty Chang E-signed 2024-04-23 11:54AM HST carty.s.chang@hawaii.gov State of Hawaii Chief Engineer			
SIGNATURE: <i>Willam H. O. Bow</i> Exp. Date of License: 4/30/26		SUBMITTED: -- DATE: APRIL 2024 SCALE: AS NOTED		DRAWING NO. <b>C-3.01</b>	

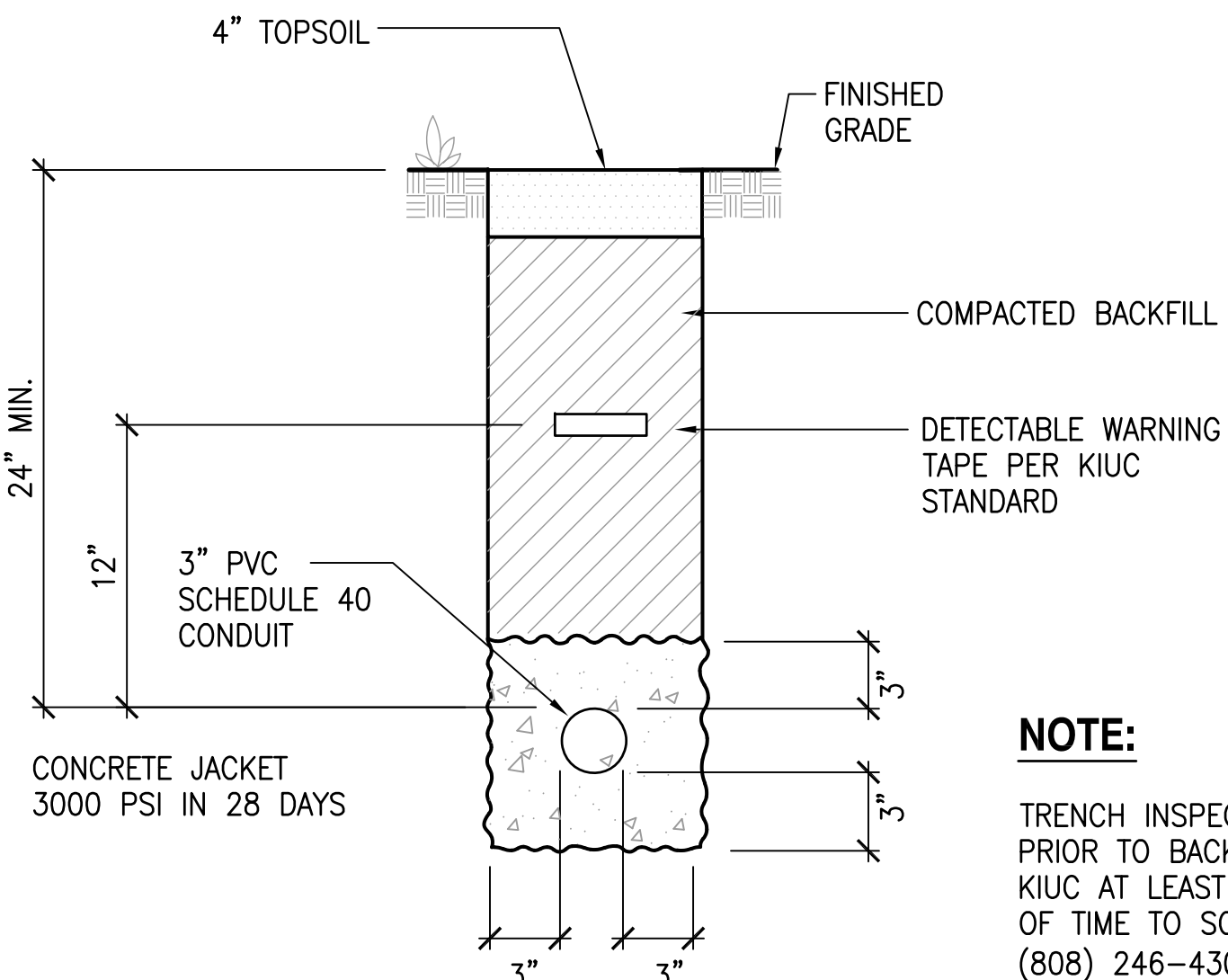
SYMBOL		DESCRIPTION
EXISTING	NEW	
		JOINT UTILITY POLE, POLE P2 INDICATED, ALL OTHERS SIMILAR
		OVERHEAD CONDUCTORS
		TOP HALF: DETAIL NUMBER BOTTOM HALF: SHEET ON WHICH SHOWN
	KIUC	KAUAI ISLAND UTILITY COOPERATIVE
	HT	HAWAIIAN TELCOM
	X	DENOTES DEMOLITION/REMOVAL

### GENERAL ELECTRICAL NOTES

- ALL WORK SHOWN ON ELECTRICAL DRAWINGS SHALL BE NEW UNLESS OTHERWISE NOTED.
- THE LOCATIONS OF EXISTING KNOWN UNDERGROUND UTILITIES SHOWN ON PLAN ARE FROM EXISTING RECORDS AND ARE APPROXIMATIONS ONLY. EXERCISE EXTREME CAUTION WHEN CONSTRUCTION CROSSES OR IS IN CLOSE PROXIMITY TO EXISTING UNDERGROUND UTILITIES. TONE FOR ALL EXISTING UNDERGROUND UTILITIES PRIOR TO EXCAVATION. DAMAGES TO EXISTING UNDERGROUND UTILITIES SHALL BE REPAIRED AT NO COST TO THE STATE.
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES TO AVOID CONFLICTS WITH OTHER ELEMENTS OF THIS PROJECT.
- IN THE EVENT OF DISCREPANCY, IMMEDIATELY NOTIFY THE ENGINEER IN WRITING. DO NOT PROCEED WITH INSTALLATION IN AREAS OF DISCREPANCY UNTIL ALL SUCH DISCREPANCIES HAVE BEEN FULLY RESOLVED.
- THE CONTRACTOR SHALL COORDINATE WITH KIUC FOR CONNECTION OF SECONDARY ELECTRICAL SERVICE PRIOR TO START OF CONSTRUCTION.



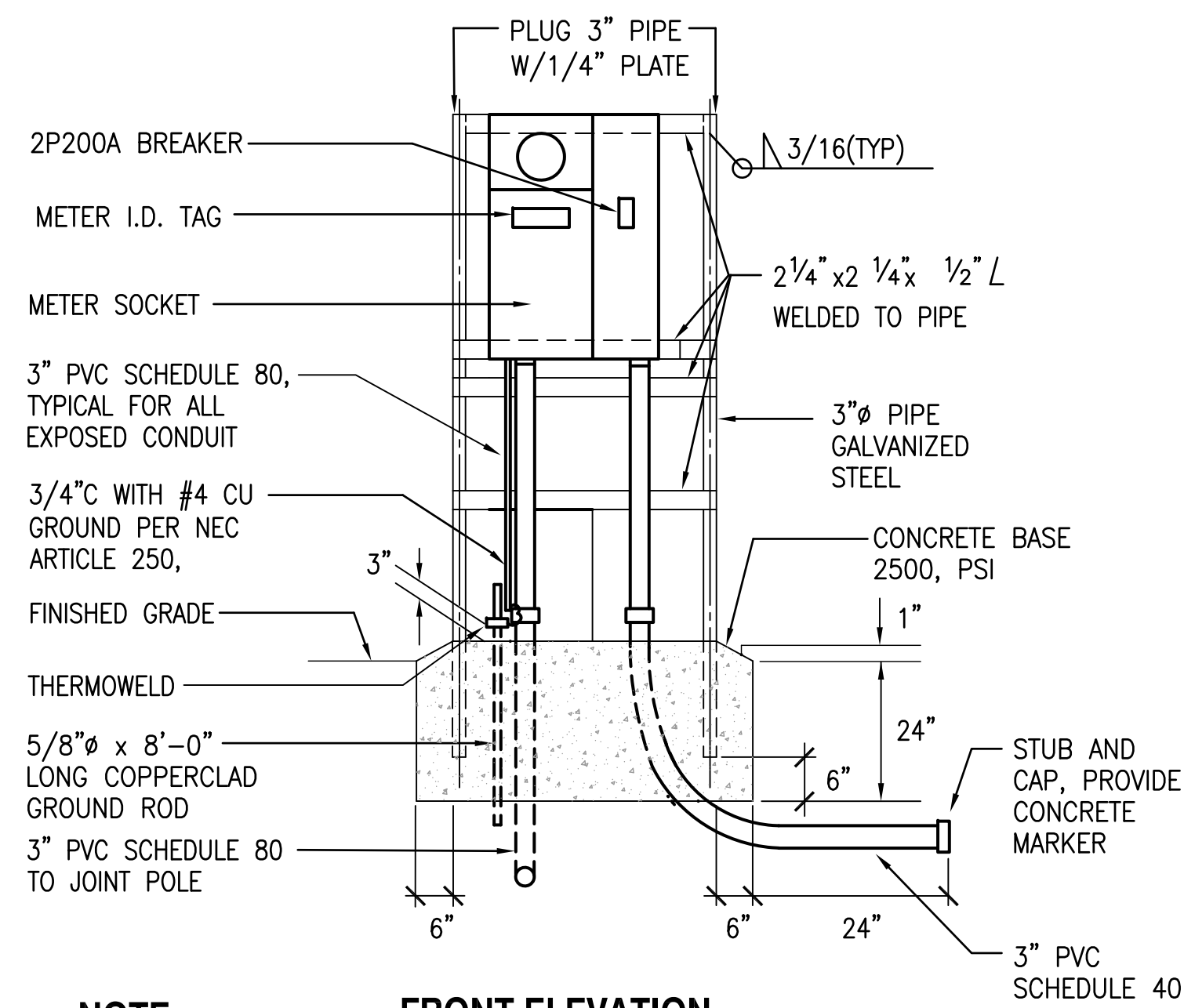
**1 ONE-LINE DIAGRAM**  
E-1 NO SCALE



**2 DUCT SECTION**  
E-1 NOT TO SCALE

**NOTE:**

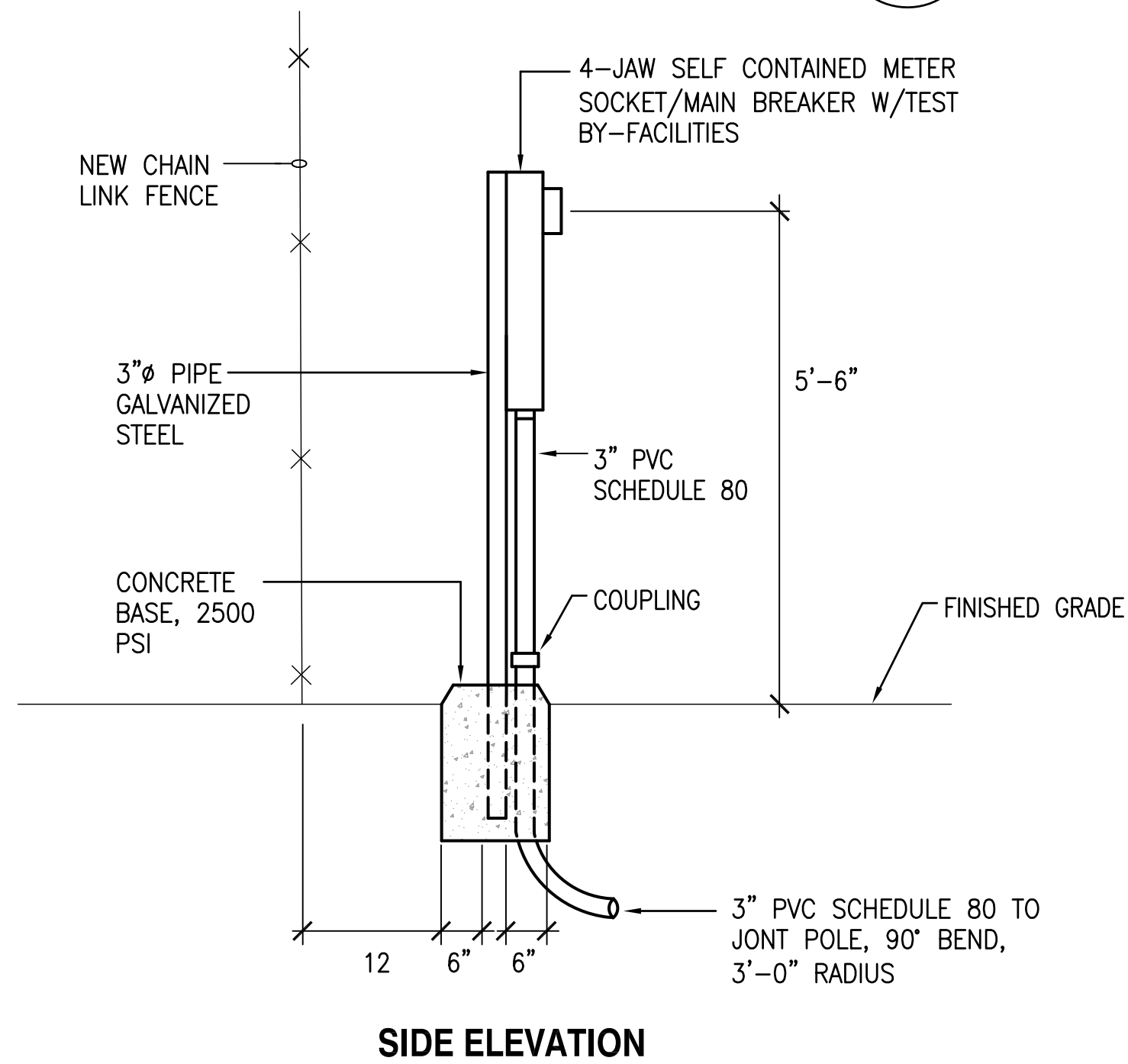
TRENCH INSPECTION IS REQUIRED PRIOR TO BACKFILLING. CONTACT KIUC AT LEAST 2-3 DAYS AHEAD OF TIME TO SCHEDULE (808) 246-4300.



**NOTE:** **FRONT ELEVATION**

PEDESTAL SHALL BE HOT-DIPPED GALV. AFTER FABRICATION. ALL FASTENING BOLTS, NUTS & WASHERS SHALL BE STAINLESS STEEL. PROVIDE 4 FEET CLEAR IN FRONT OF METER.

**3 METER ELEVATION**  
E-1 NOT TO SCALE



**SIDE ELEVATION**

COUNTY OF KAUAI  
CHAPTER 12, KAUAI COUNTY BUILDING CODE  
KAUAI COUNTY CODE 1987, AS AMENDED  
ARTICLE 6 - ENERGY CONSERVATION CODE

To the best of my knowledge, this project's design substantially conforms to:  
Section 12-6.3 Adoption of the International Energy Conservation Code (IECC)  
Section 12-6.4 Local Amendments to the IECC  
For electrical and lighting systems (Section C405 and C408).

**COMPLIANCE METHOD**

- 2018 IECC as amended, Mandatory & Prescriptive
- 2018 IECC as amended, Mandatory & Total Building Performance
- ASHRAE Standard 90.1 Mandatory & Prescriptive
- ASHRAE Standard 90.1 Mandatory & Energy Cost Budget

INFORMATION IN CONSTRUCTION DOCUMENTS	Yes	N/A
Interior Lighting		
Occupant sensor controls, C405.2.1	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Time switch controls, C405.2.2	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Daylight responsive controls, C405.2.3	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Daylight zones on plans, C405.2.3.2 & C405.2.3.3	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Specific application controls, C405.2.4		
Interior lighting fixture schedule	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Input power for interior lighting fixtures	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Interior lighting fixture locations	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Lighting control functional performance testing requirement, C408.3	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Exterior Lighting		
Exterior lighting controls, C405.2.5	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Exterior lighting fixture schedule	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Input power for exterior lighting fixtures	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Exterior lighting fixture locations	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Electrical		
Electrical transformer efficiency, C405.7	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Tenant submetering, C405.10	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**FUNCTIONAL TESTING**

C408.3.1 Functional testing. Prior to passing final inspection, the registered design professional shall provide evidence that the lighting control systems have been tested to ensure that control hardware and software are calibrated, adjusted, programmed and in proper working condition in accordance with the construction documents and manufacturer's instructions. Functional testing shall be in accordance with Sections C408.3.1.1 and C408.3.1.2 for the applicable control type.

NOTES

SIGNATURE: *Michele Adolpho*

DATE: 03/28/2024

NAME: MICHELE ADOLPHO

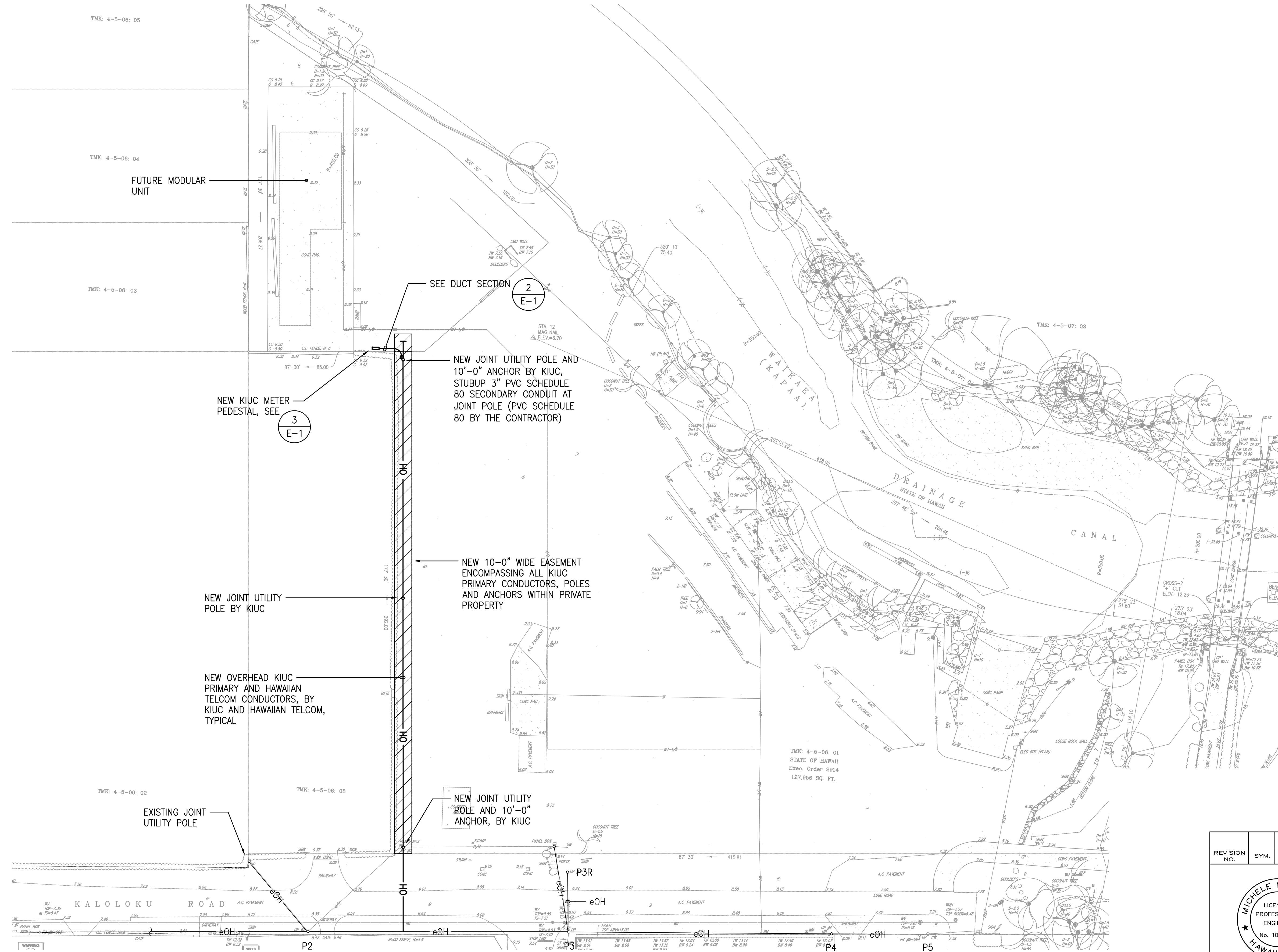
TITLE: PROJECT ENGINEER

LICENSE NO.: 10017-E

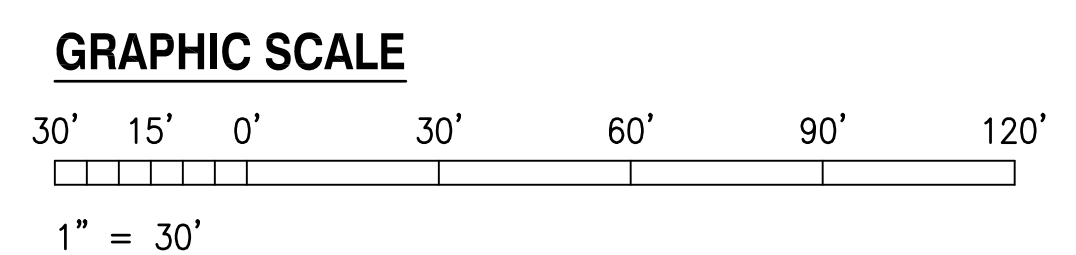
REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION					
DIVISION OF AQUATIC RESOURCES KAUAI WORK STATION SITE WORK ELECTRICAL SYMBOL LIST, ONE-LINE DIAGRAM, METER ELEVATION					
DESIGNED: MA		SUBMITTED: <i>[Signature]</i>			
DRAWN: OL		DATE: APRIL 2024			
CHECKED: MA		SCALE: AS NOTED			
APPROVED: <i>[Signature]</i>		Carty Chang E-signed 2024-04-23 11:54AM HST carty.s.chang@hawaii.gov		DRAWING NO.	
CHIEF ENGINEER State of Hawaii		Chief Engineer		<b>E-1</b>	



4/19/24-15:00 Y:\158\158.045 dtr kapaia\158.045 E-2.501.dwg



**1**  
**E-2** **ELECTRICAL SITE PLAN**  
SCALE: 1" = 30'-0"



REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION					
DIVISION OF AQUATIC RESOURCES KAUA'I WORK STATION SITE WORK					
ELECTRICAL SITE PLAN					
DESIGNED: MA			SUBMITTED:		
DRAWN: OL			DATE: APRIL 2024		
CHECKED: MA			SCALE: AS NOTED		
APPROVED:			DRAWING NO. <b>E-2</b>		
CHIEF ENGINEER Carty Chang E-signed 2024-04-23 11:44 AM HST carty.s.chang@hawaii.gov State of Hawaii			SHEET NO. 9 OF 9 SHEETS		