

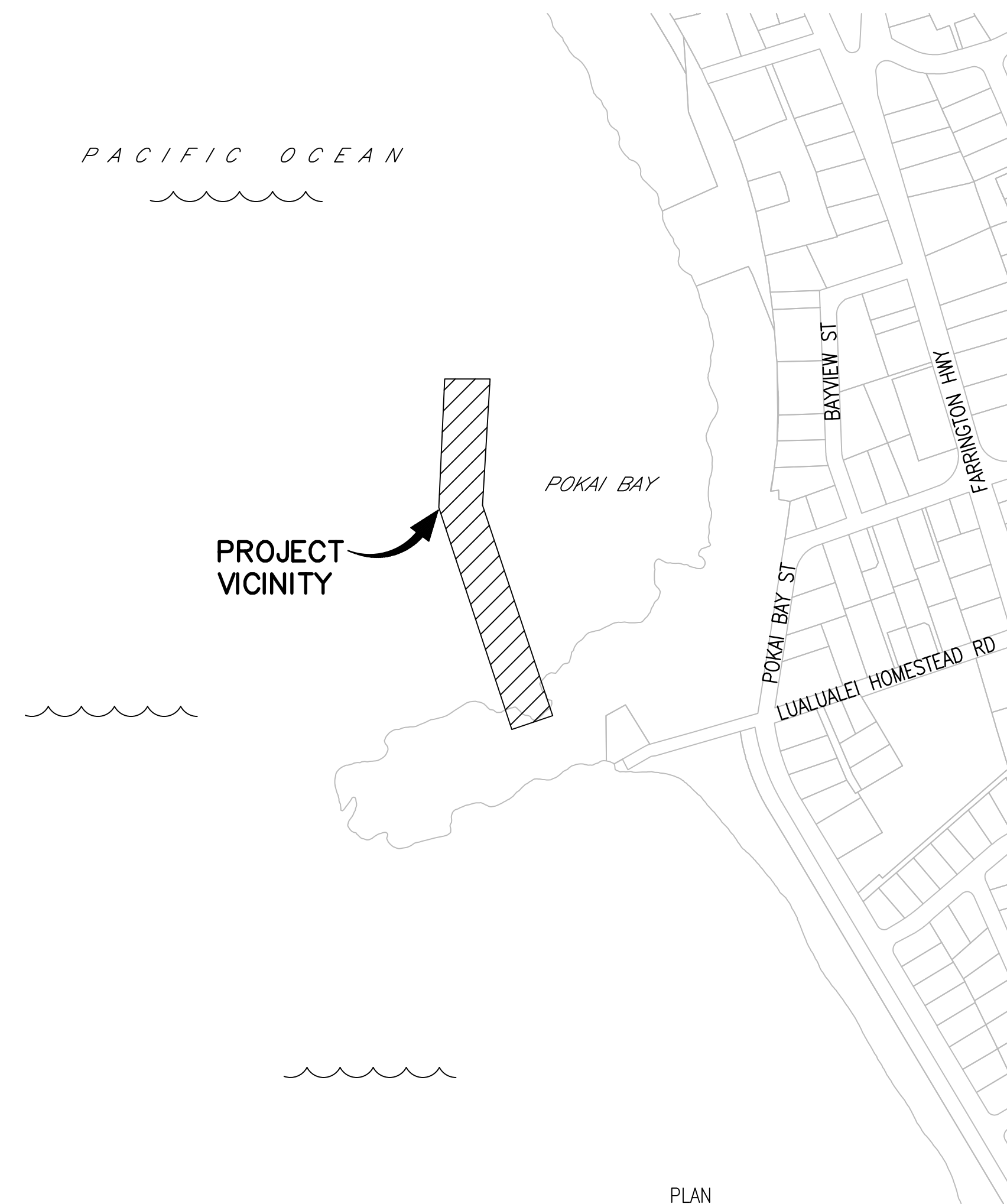
STATE OF HAWAII
 DEPARTMENT OF LAND AND NATURAL RESOURCES
 DIVISION OF BOATING AND OCEAN RECREATION

JOB NO. B81C071A

POKAI BAY JETTY WALL IMPROVEMENTS

WAIANAE, OAHU, HAWAII

TMK: (1) 8-5-011, OFFSHORE OF (1) 8-5-001:062



VICINITY MAP
 SCALE: 1" = 300'



ISLAND OF OAHU
 SCALE: NOT TO SCALE

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APPROVED:

05/04/2026

MEGHAN L. STATTS
 ADMINISTRATOR
 DIVISION OF BOATING AND OCEAN RECREATION
 DEPARTMENT OF LAND AND NATURAL RESOURCES

DATE

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED	DRAWING NO.
						T-001

GENERAL CIVIL NOTES:

- 1. THE CONTRACTOR SHALL VERIFY AND CHECK DIMENSIONS AND DETAILS SHOWN ON THE DRAWINGS PRIOR TO THE START OF CONSTRUCTION. DISCREPANCIES MUST BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION.
2. THE CONTRACTOR SHALL AT ALL TIMES DURING PERFORMANCE OF THIS CONTRACT, ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE SITE SAFETY CONDITIONS FOR ALL PERSONS AND PROPERTY.
3. THE CONTRACTOR SHALL CONFINE ACTIVITIES WITHIN THE LIMITS OF CONSTRUCTION SHOWN IN THESE PLANS.
4. DUE TO LIMITED SPACE AT THE JOB SITE, THE STATE RECOGNIZES THE NEED FOR A CONSTRUCTION STAGING AREA FOR TEMPORARY STORAGE OF CONSTRUCTION EQUIPMENT AND MATERIAL.
5. WORK IS ANTICIPATED TO BE LAND-BASED. ANY WATER-BASED CONSTRUCTION SHALL BE AT THE CONTRACTOR'S OPTION AND EXPENSE, INCLUDING ALL ACCESS PROVISIONS AND ANY ADDITIONAL PERMITTING REQUIRED FOR IN-WATER WORK.
6. WORK PERFORMED MUST COMPLY WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS REQUIRED FOR THE PROTECTION OF PUBLIC HEALTH, SAFETY AND ENVIRONMENTAL QUALITY.
7. EXISTING PEDESTRIAN WALKWAYS SHALL BE MAINTAINED IN A PASSABLE CONDITION OR PROVIDE FOR ALTERNATE/TEMPORARY ACCESSIBLE PEDESTRIAN ACCESS ROUTES AND FACILITIES PER THE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN CHAPTER 2 AND ADAAG 201.3 AND ADAAG 206.1.
8. CONTRACTOR SHALL TAKE MEASURES TO PROTECT ALL EXISTING IMPROVEMENTS WITHIN THE WORK AREA INCLUDING BUT NOT LIMITED TO ASPHALT DRIVEWAYS WITHIN ACCESS/STAGE AREAS, EXISTING TREES, CURBS, SIGNS, ROCK WALLS, AND PICNIC TABLES.
9. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO SECURE EQUIPMENT AND PROTECT THE WORK FROM ADVERSE WEATHER CONDITIONS, INCLUDING MAJOR STORM EVENTS.
10. THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES, MANHOLES, MONUMENTS, BURIED RAILROAD TRACKS AND CONCRETE PAVEMENTS, AND OTHER STRUCTURES AS SHOWN ON THE PLANS ARE FROM THE LATEST AVAILABLE DATA BUT THE ACCURACY IS NOT GUARANTEED.
11. THE CONTRACTOR SHALL NOTIFY AND COORDINATE ALL SITE WORK WITH "THE ONE CALL CENTER" AT (866) 423-7287 AT LEAST 5 WORKING DAYS PRIOR TO THE START OF EXCAVATION OR TRENCHING.
12. ALL ACTIVE UTILITIES MUST REMAIN-IN-SERVICE AND IN PLACE, WHETHER OR NOT SHOWN ON THE PLANS, AND MUST BE PROTECTED AT ALL TIMES DURING CONSTRUCTION, UNLESS NOTED OTHERWISE.
13. THE CONTRACTOR SHALL REPAIR DAMAGE TO EXISTING UTILITIES AND STRUCTURES CAUSED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE STATE.
14. IF CAVITIES OR VOIDS ARE ENCOUNTERED DURING EXCAVATION WORK, THE CONTRACTOR SHALL STOP WORK IMMEDIATELY AND NOTIFY THE STATE.
15. NO BLASTING SHALL BE ALLOWED.
16. THE CONTRACTOR SHALL CONFORM WITH THE APPLICABLE PROVISIONS OF CHAPTER 54, WATER QUALITY STANDARDS, AND CHAPTER 55, WATER POLLUTION CONTROL, OF TITLE 11, HAWAII ADMINISTRATIVE RULES OF THE STATE DEPARTMENT OF HEALTH.
17. THE CONTRACTOR SHALL PLAN, CONSTRUCT AND UTILIZE ALL BEST MANAGEMENT PRACTICES (BMP) AS REQUIRED TO COMPLY WITH THE LAWS, STANDARDS, RULES, AND/OR POLICIES OF THE COUNTY, STATE, OR FEDERAL REGULATORY AGENCIES.

GENERAL CIVIL NOTES (CONT):

- 18. THE CONTRACTOR SHALL PREVENT POLLUTANTS (E.G., SEDIMENT, CONSTRUCTION DEBRIS, CONSTRUCTION MATERIALS, FUELS, CHEMICALS, ETC.) FROM ENTERING THE STORM DRAINAGE SYSTEM AND FROM RUNNING OFF THE PROJECT SITE. REMOVE ALL SILT AND DEBRIS RESULTING FROM CONSTRUCTION WORK DEPOSITED IN DRAINAGE FACILITIES, ROADWAYS, AND OTHER AREAS.
19. THE JOB SITE SHALL BE LEFT IN A SAFE AND SECURE CONDITION AT THE END OF EACH CONSTRUCTION WORKDAY.
20. RESTORE TO THEIR ORIGINAL CONDITION ALL IMPROVEMENTS DAMAGED AS A RESULT OF THE CONSTRUCTION, INCLUDING PAVEMENTS, EMBANKMENTS, CURBS, SIGNS, PAVEMENT STRIPING, LANDSCAPING, STRUCTURES, UTILITIES, WALLS, FENCES, ETC.
21. UPON COMPLETION OF CONSTRUCTION, THE ENTIRE JOB SITE SHALL BE CLEANED OF ALL RUBBISH AND DEBRIS.
22. ALL VARIANCES FROM DESIGN MUST BE APPROVED IN ADVANCE BY THE OWNER AND MUST BE INDICATED ON RECORD DRAWINGS.

WATER POLLUTION AND EROSION CONTROL NOTES:

- 1. GENERAL:
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", AND ITS AMENDMENTS.
B. THE CONTRACTOR SHALL FOLLOW THE GUIDELINES IN THE "CITY AND COUNTY OF HONOLULU STORM WATER BEST MANAGEMENT PRACTICE MANUAL - CONSTRUCTION" DATED AUGUST 2017, IN DEVELOPING, INSTALLING AND MAINTAINING THE BEST MANAGEMENT PRACTICES (BMP'S) FOR THE PROJECT.
C. THE CONTRACTOR SHALL KEEP A COPY OF THE APPROVED BMP PLAN, NOI, ETC. ON THE PROJECT SITE.
D. 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, FOR EVERY DAY ON NON-COMPLIANCE.
E. THE ENGINEER WILL 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 FOR THE FULL AMOUNT OF THE OUTSTANDING COST INCURRED BY THE STATE.
2. WASTE DISPOSAL:
A. WASTE MATERIALS: ALL WASTE MATERIALS SHALL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER THAT DOES NOT LEAK.
B. HAZARDOUS WASTE: ALL HAZARDOUS WASTE MATERIALS SHALL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATIONS.
C. SANITARY WASTE: ALL SANITARY WASTE SHALL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF ONCE PER WEEK, OR AS REQUIRED.
3. EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES:
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.
C. TEMPORARY AND PERMANENT SEEDING AND PLANTING SHALL BE INSPECTED FOR BARE SPOTS, WASH OUTS AND HEALTHY GROWTH.

WATER POLLUTION AND EROSION CONTROL NOTES (CONT):

- D. PERSONNEL SELECTED FOR THE INSPECTION AND MAINTENANCE RESPONSIBILITIES SHALL RECEIVE TRAINING FROM THE CONTRACTOR.
E. ALL SLOPES AND EXPOSED AREAS SHALL BE GRASSED AS FINAL GRADES HAVE BEEN ESTABLISHED.
F. TEMPORARY EROSION CONTROL SHALL NOT BE REMOVED BEFORE PERMANENT EROSION CONTROLS ARE IN-PLACE AND ESTABLISHED.
4. GOOD HOUSEKEEPING BEST MANAGEMENT PRACTICES:
A. MATERIALS POLLUTION PREVENTION PLAN:
a. APPLICABLE MATERIALS OR SUBSTANCES LISTED BELOW ARE EXPECTED TO BE PRESENT ONSITE DURING CONSTRUCTION.
b. MATERIAL MANAGEMENT PRACTICES SHALL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF.
c. ALL MATERIALS STORED ONSITE SHALL BE STORED IN A NEAT, ORDERLY MANNER.
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.
B. HAZARDOUS MATERIAL POLLUTION PREVENTION PLAN:
a. PRODUCTS SHALL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE.
b. ORIGINAL LABELS AND MATERIAL 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.
C. ONSITE AND OFFSITE PRODUCTS SPECIFIC PLANS:
THE FOLLOWING PRODUCTS SPECIFIC PRACTICES SHALL BE FOLLOWED ONSITE:
a. PETROLEUM BASED PRODUCTS: ALL ONSITE VEHICLES SHALL BE MONITORED FOR LEAKS AND RECEIVED REGULAR PREVENTIVE MAINTENANCE.
b. FERTILIZERS: APPLY FERTILIZERS USED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER.
c. PAINTS: SEAL AND STORE ALL CONTAINERS WHEN NOT REQUIRED FOR USE.
d. CONCRETE TRUCKS: WASH OUT OR DISCHARGE CONCRETE TRUCK DRUM WASH WATER ONLY AT A DESIGNATED SITE.

Table with 2 columns: CONCRETE (DETERGENTS, PAINTS, METAL STUDS, TAR), FERTILIZERS (PETROLEUM BASED PRODUCTS, CLEANING SOLVENTS, WOOD, MASONRY BLOCK)

WATER POLLUTION AND EROSION CONTROL NOTES (CONT):

- D. SPILL CONTROL PLAN:
a. POST A SPILL PREVENTION PLAN TO INCLUDE MEASURES TO PREVENT AND CLEAN UP EACH SPILL.
b. THE CONTRACTOR SHALL BE THE PREVENTION AND CLEAN-UP COORDINATOR.
c. CLEARLY POST MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP.
d. KEEP MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP IN THE MATERIAL STORAGE AREA ONSITE.
e. CLEAN UP ALL SPILLS IMMEDIATELY AFTER DISCOVERY.
f. KEEP THE SPILL AREA WELL VENTILATED.
g. REPORT SPILLS OF TOXIC HAZARDOUS MATERIAL TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY.
5. NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) REQUIREMENTS:
A. 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.

SURVEY NOTES:

- 1. HORIZONTAL COORDINATE AND AZIMUTHS SHOWN ARE IN U.S. FEET AND ARE REFERENCED TO STATE PLANE, HAWAII ZONE 3, NAD 83.
2. ELEVATIONS SHOWN ARE IN FEET AND REFERENCED TO MEAN SEA LEVEL (MSL), GEOID 12B.
3. EXCEPT AS NOTED OTHERWISE, HYDROGRAPHIC AND TOPOGRAPHIC SURVEY WERE CONDUCTED BY CONTROLPOINT SURVEYING, INC. DURING FEBRUARY 13, 2026 AND REPRESENT THE CONDITIONS THAT EXISTED AT THE TIME OF THE SURVEYS.
4. AZIMUTHS MEASURED FROM TRUE SOUTH = 0 DEGREES, 00 MINUTES, 00 SECONDS AND INCREASE CLOCKWISE.
5. BENCHMARK/MONUMENT USED FOR SURVEY CONTROL PROVIDED IN TABLE BELOW.

Table: MONUMENTS USED FOR SURVEY CONTROL. Columns: NAME, NORTHING, EASTING, ELEVATION, DESCRIPTION. Row: STA 8 4, 99,631.22, 1,575,554.11, 11.2', BRASS DISC

Professional Engineer stamp for Chris J. Nakamura, State of Hawaii, Department of Land and Natural Resources. Includes fields for REVISION NO., SYM., DESCRIPTION, SHT./OF, DATE, APPROVED, and a signature line.

ENVIRONMENTAL NOTES:

- 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 SYSTEMS, DUST FENCES, ETC.
- 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 PRACTICE (BMP) TO MINIMIZE OR PREVENT THE DISCHARGE OF SEDIMENTS, DEBRIS AND OTHER WATER POLLUTANT INTO STATE WATERS ARE PROVIDED AT ALL TIMES.
- 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.
- AFTER EACH RAINFALL EVENT, THE CONTRACTOR SHALL REMOVE ALL SIT AND DEBRIS RESULTING FROM HIS WORK AND DEPOSITED IN DRAINAGE FACILITIES, ROADWAYS AND OTHER AREAS. THE COST INCURRED FOR ANY NECESSARY REMEDIAL ACTION BY THE COUNTY ENGINEER SHALL BE PAYABLE BY THE CONTRACTOR.
- 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, WATERCOURSE, NATURAL AREAS AND THE PROPERTY OF OTHERS.
- THE CONTRACTOR SHALL OBTAIN AND COMPLY WITH NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEMS (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.
- IN ACCORDANCE WITH CHAPTER 11-46, COMMUNITY NOISE, HAWAII ADMINISTRATIVE RULES, THE CONTRACTOR 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.
- TREE CLEARING DURING BAT SEASON: CLEARING OF TREES 15 FEET IN HEIGHT OR TALLER CLEARED DURING THE HAWAIIAN HOARY BAT PUPPING SEASON BETWEEN JUNE 1 AND SEPTEMBER 15 IS PROHIBITED. THIS RESTRICTION DOES NOT APPLY TO KOA HAOLE (LEUCAENA LAUCOCOPHALA).
- ACTIVE NESTS IN TREES/BUSHES: WHEN CLEARING VEGETATION, THE CONTRACTOR MUST VERIFY THAT TREES OR BUSHES SCHEDULED FOR REMOVAL DO NOT CONTAIN THE ACTIVE NESTS OF MIGRATORY BIRDS. SUCH NESTS CANNOT BE DESTROYED UNTIL THE CHICKS HAVE FLEDGED IN COMPLIANCE WITH THE MIGRATORY TREATY ACT AND EXECUTIVE ORDER 13186. DO NOT DISTURB BIRDS OR THEIR NESTS AND IMMEDIATELY REPORT SIGHTINGS TO THE ENGINEER.

HISTORICAL PRESERVATION NOTE:

- 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 HONOLULU POLICE DEPARTMENT, CITY AND COUNTY DEPARTMENT OF PLANNING AND PERMITTING AT (808) 768-8084, 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 BURIALS ARE FOUND, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE HONOLULU POLICE DEPARTMENT.

PUBLIC HEALTH, SAFETY, AND CONVENIENCE:

- THE CONTRACTOR SHALL OBSERVE AND COMPLY WITH ALL FEDERAL, STATE, AND LOCAL LAWS REQUIRED FOR THE PROTECTION OF PUBLIC HEALTH AND SAFETY AND ENVIRONMENTAL QUALITY.
- THE CONTRACTOR AT HIS OWN EXPENSE, SHALL KEEP THE PROJECT AND ITS SURROUNDING AREAS FREE FROM DUST NUISANCE. THE WORK SHALL BE IN CONFORMANCE WITH THE AIR POLLUTION STANDARDS AND REGULATIONS OF THE STATE DEPARTMENT OF HEALTH.
- 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 PUBLIC.
- THE CONTRACTOR SHALL REMOVE ALL SILT AND DEBRIS RESULTING FROM HIS WORK AND DEPOSITED IN DRAINAGE FACILITIES, ROADWAYS AND OTHER AREAS. THE COST INCURRED FOR ANY NECESSARY REMEDIAL ACTION BY THE COUNTY SHALL BE PAYABLE BY THE CONTRACTOR.

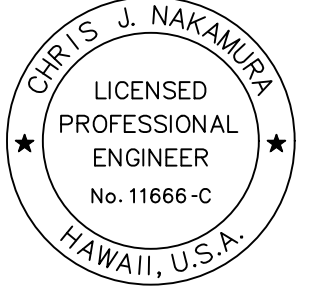
PUBLIC HEALTH, SAFETY, AND CONVENIENCE (CONT):

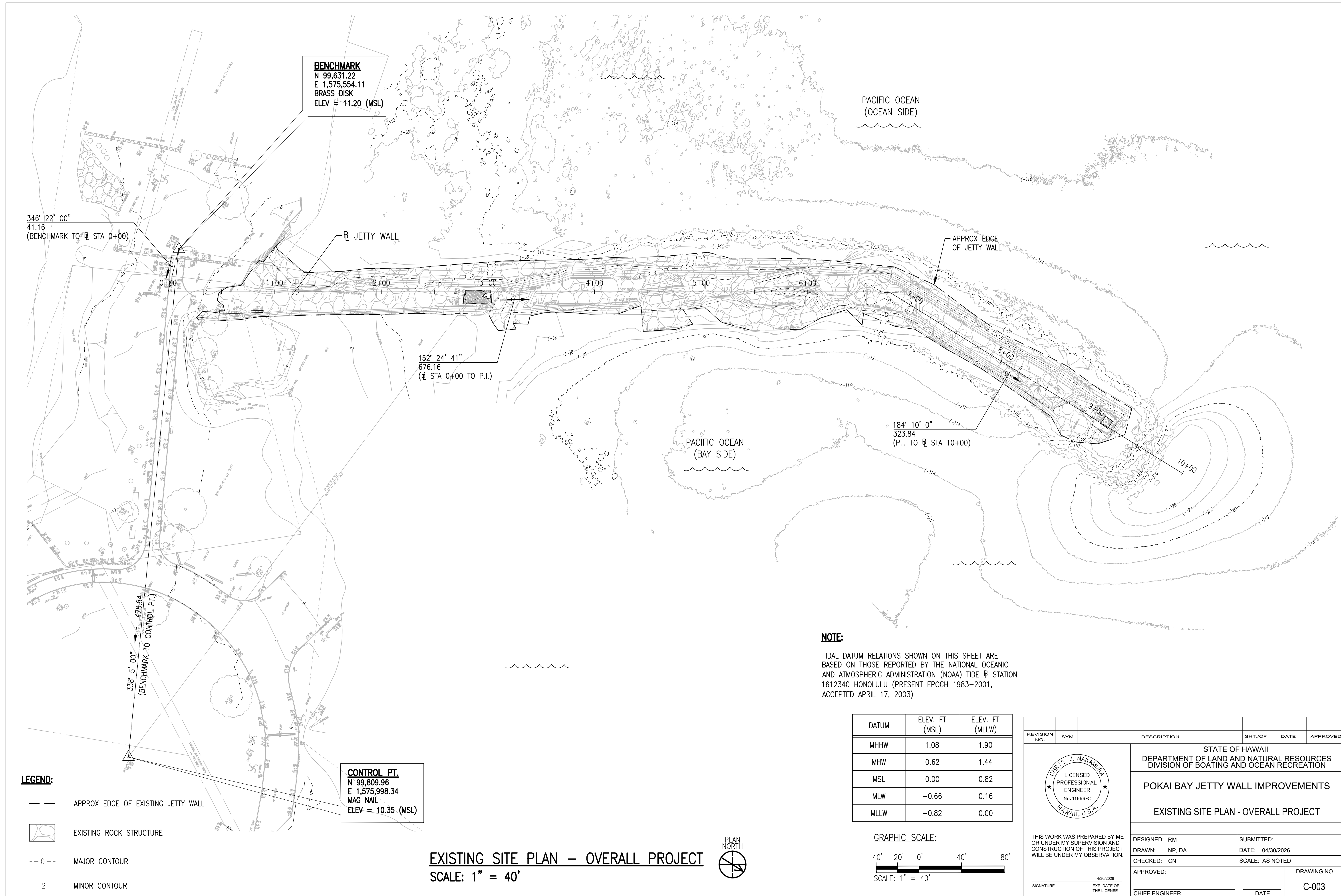
- THE CONTRACTOR'S ATTENTION IS DIRECTED TO CHAPTER 46, PUBLIC HEALTH REGULATIONS, DEPARTMENT OF HEALTH, STATE OF HAWAII, "COMMUNITY NOISE CONTROL," IN WHICH MAXIMUM PERMISSIBLE NOISE LEVELS HAVE BEEN SET. IF THE CONSTRUCTION WORK REQUIRES A PERMIT FROM THE DIRECTOR OF HEALTH, THE CONTRACTOR SHALL OBTAIN 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 PROTECTION AND HEALTH SERVICES DIVISION, 1250 PUNCHBOWL ST., HONOLULU, HI 96813 OR BY TELEPHONE (548-6455).

MATERIAL QUANTITY NOTES

- INFORMATION PROVIDED IN THE MATERIAL QUANTITY TABLE IS FOR REFERENCE ONLY AND SHALL NOT BE USED FOR BIDDING PURPOSES. CONTRACTOR SHALL BE FAMILIAR WITH THE SITE AND DETERMINE THEIR OWN VOLUMES FOR EXCAVATION, TOTAL FILL, EXISTING REUSED ARMOR STONE, AND NEW ARMOR STONE FOR ALL REPAIRS SITES FOR BIDDING PURPOSES.
- NEAT LINE EXCAVATION VOLUMES ARE BASED ON EXISTING CONDITIONS SURVEY PERFORMED DURING FEBRUARY 2026 AND REPRESENT THE CONDITIONS AT THE TIME OF THE SURVEY. VOLUMES MAY HAVE CHANGED.
- TOTAL FILL VOLUMES ARE BASED ON NEAT LINE DESIGN TYPICAL SECTION PROVIDED IN THESE DRAWINGS.
- VOLUMES OF EXISTING REUSED ARMOR STONE ASSUME 25% OF MATERIAL WITHIN THE REPAIR EXCAVATION VOLUME CAN BE REUSED. VOLUME OF NEW ARMOR STONE ASSUMES REMAINING TEMPLATE IS FILLED WITH NEW MATERIAL. CONTRACTOR SHALL MAKE THEIR OWN ASSESSMENTS OF HOW MUCH EXISTING REUSED ARMOR STONE CAN BE REUSED PER THEIR OWN OBSERVATIONS AND IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS.

MATERIAL QUANTITY TABLE				
LOCATION	EXCAVATION VOLUME (NEAT LINE, SEE NOTE 2)	TOTAL FILL VOLUME (NEAT LINE, SEE NOTE 3)	ESTIMATED EXISTING REUSED ARMOR STONE VOLUME (SEE NOTE 4)	ESTIMATED NEW ARMOR STONE VOLUME (SEE NOTE 3)
SITE 1 (BASE BID)	300 CY	320 CY	80 CY	250 CY
SITE 2 (ADDITIVE ALT. 1)	460 CY	380 CY	110 CY	270 CY
SITE 3 (ADDITIVE ALT. 2)	730 CY	890 CY	180 CY	710 CY
SITE 4 (ADDITIVE ALT. 3)	1050 CY	1360 CY	260 CY	1100 CY
SITE 5 (ADDITIVE ALT. 4)	230 CY	360 CY	60 CY	300 CY

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES DIVISION OF BOATING AND OCEAN RECREATION					
POKAI BAY JETTY WALL IMPROVEMENTS					
GENERAL NOTES - 2					
		THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.			
4/30/2026 EXP. DATE OF THE LICENSE		DESIGNED: RM DRAWN: NP, DA CHECKED: CN	SUBMITTED: DATE: 04/30/2026 SCALE: AS NOTED	APPROVED: _____ CHIEF ENGINEER	
SIGNATURE		DATE		DRAWING NO. C-002	



BENCHMARK
 N 99,631.22
 E 1,575,554.11
 BRASS DISK
 ELEV = 11.20 (MSL)

346° 22' 00"
 41.16
 (BENCHMARK TO P. STA 0+00)

152° 24' 41"
 676.16
 (P. STA 0+00 TO P.I.)

184° 10' 0"
 323.84
 (P.I. TO P. STA 10+00)

338° 5' 00"
 478.84
 (BENCHMARK TO CONTROL PT.)

CONTROL PT.
 N 99,809.96
 E 1,575,998.34
 MAG NAIL
 ELEV = 10.35 (MSL)

- LEGEND:**
- APPROX EDGE OF EXISTING JETTY WALL
 - ▭ EXISTING ROCK STRUCTURE
 - - - MAJOR CONTOUR
 - - - MINOR CONTOUR

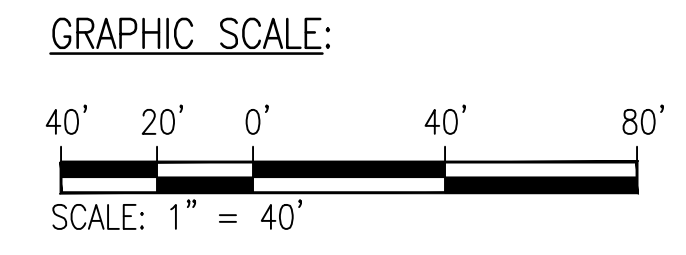
EXISTING SITE PLAN - OVERALL PROJECT
 SCALE: 1" = 40'



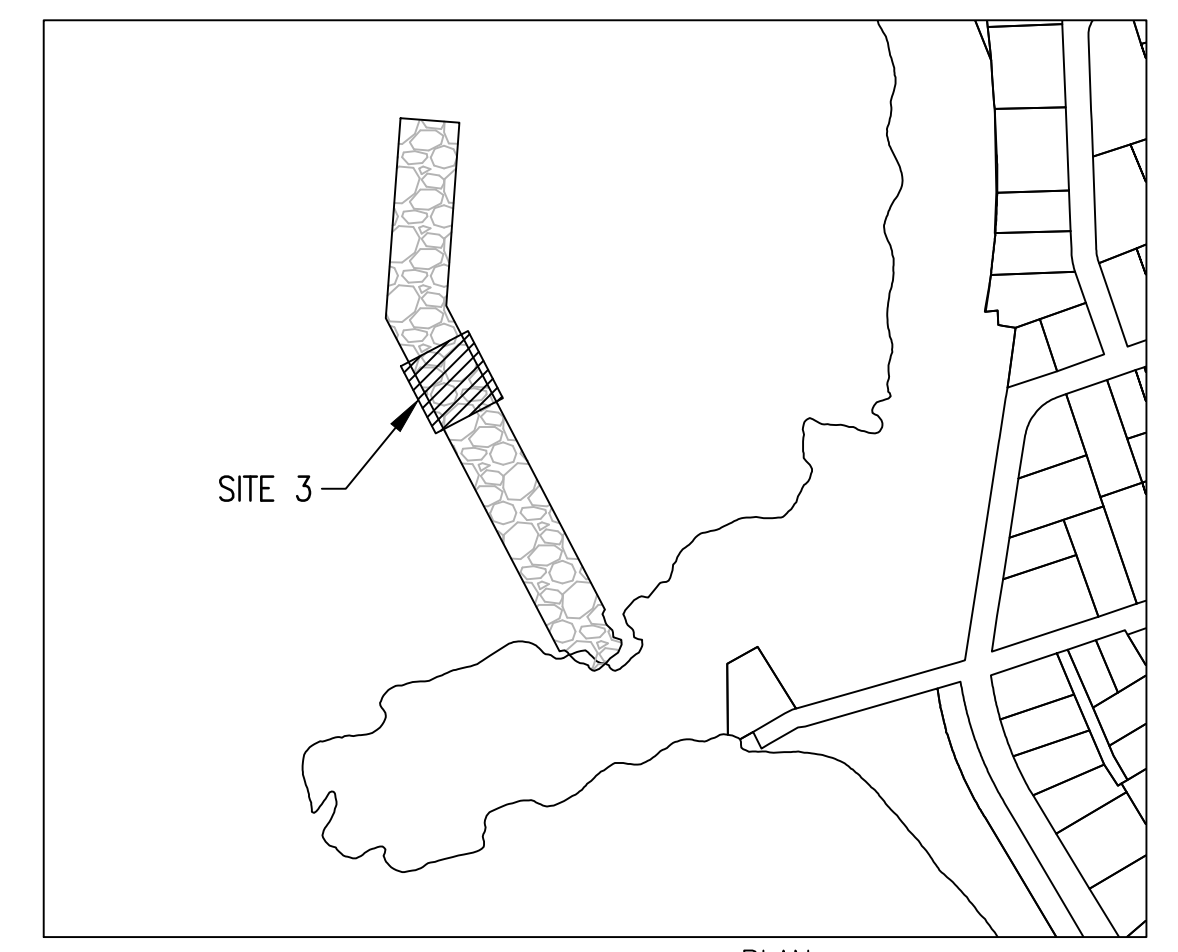
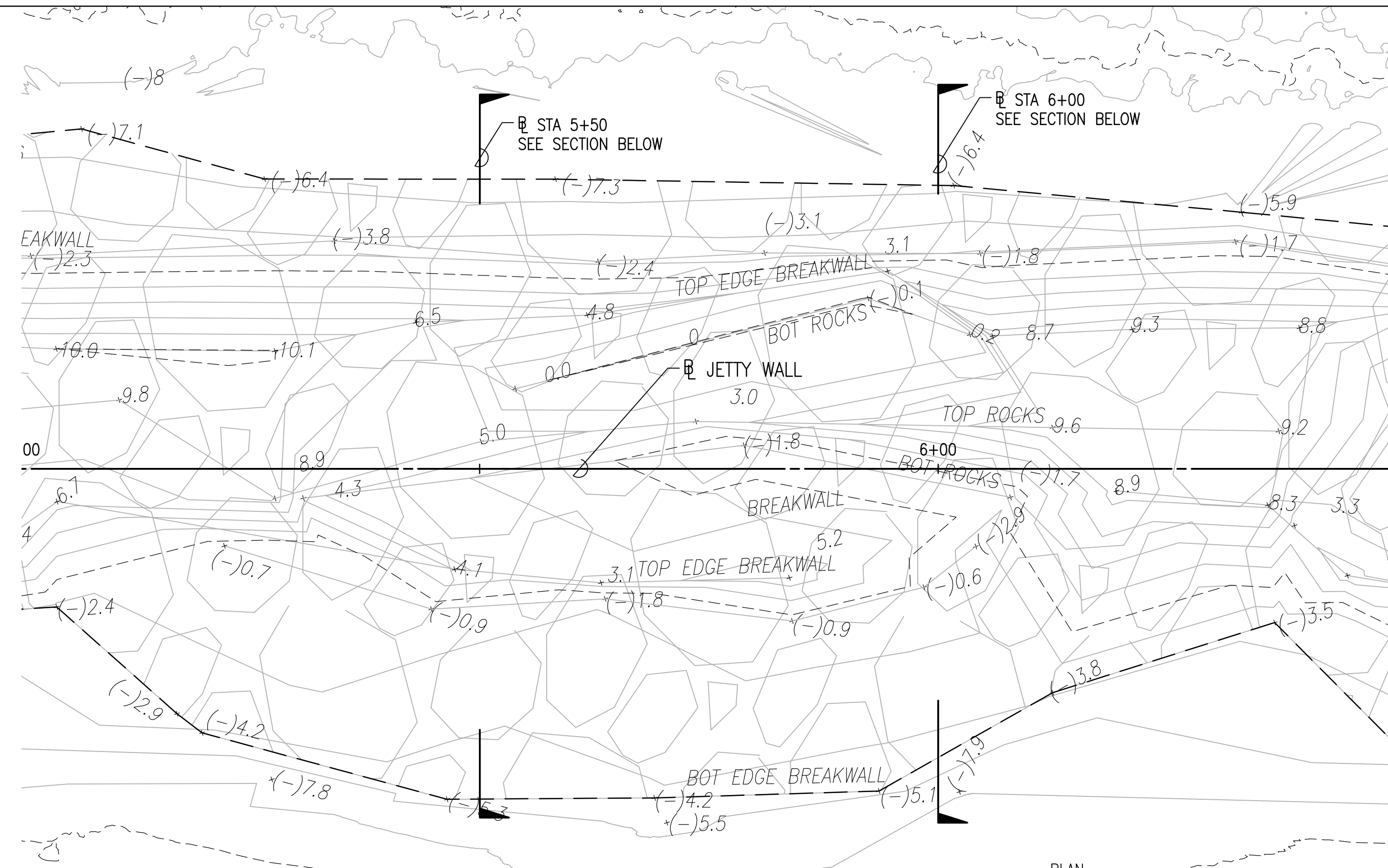
NOTE:

TIDAL DATUM RELATIONS SHOWN ON THIS SHEET ARE BASED ON THOSE REPORTED BY THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA) TIDE & STATION 1612340 HONOLULU (PRESENT EPOCH 1983-2001, ACCEPTED APRIL 17, 2003)

DATUM	ELEV. FT (MSL)	ELEV. FT (MLLW)
MHHW	1.08	1.90
MHW	0.62	1.44
MSL	0.00	0.82
MLW	-0.66	0.16
MLLW	-0.82	0.00

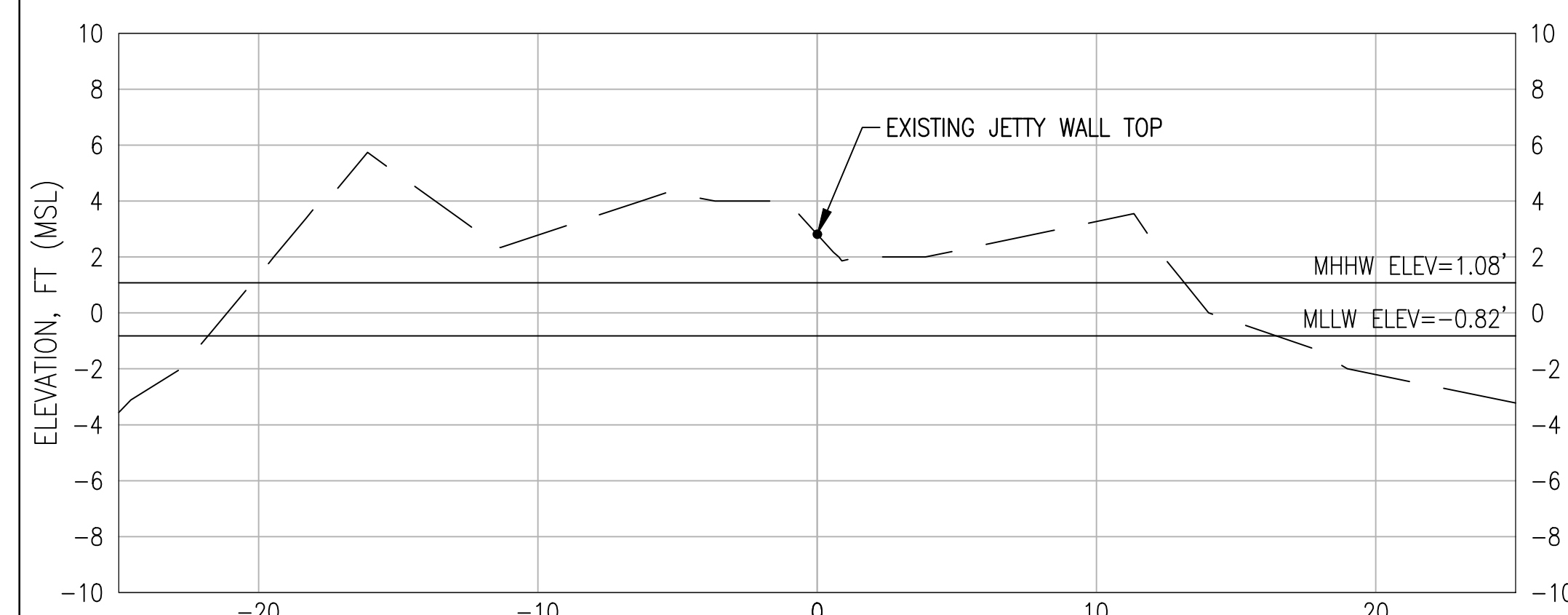


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STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES DIVISION OF BOATING AND OCEAN RECREATION					
POKAI BAY JETTY WALL IMPROVEMENTS					
EXISTING SITE PLAN - OVERALL PROJECT					
DESIGNED: RM			SUBMITTED:		
DRAWN: NP, DA			DATE: 04/30/2026		
CHECKED: CN			SCALE: AS NOTED		
APPROVED:			DRAWING NO.		
SIGNATURE			DATE		
4/30/2026 EXP. DATE OF THE LICENSE			C-003		

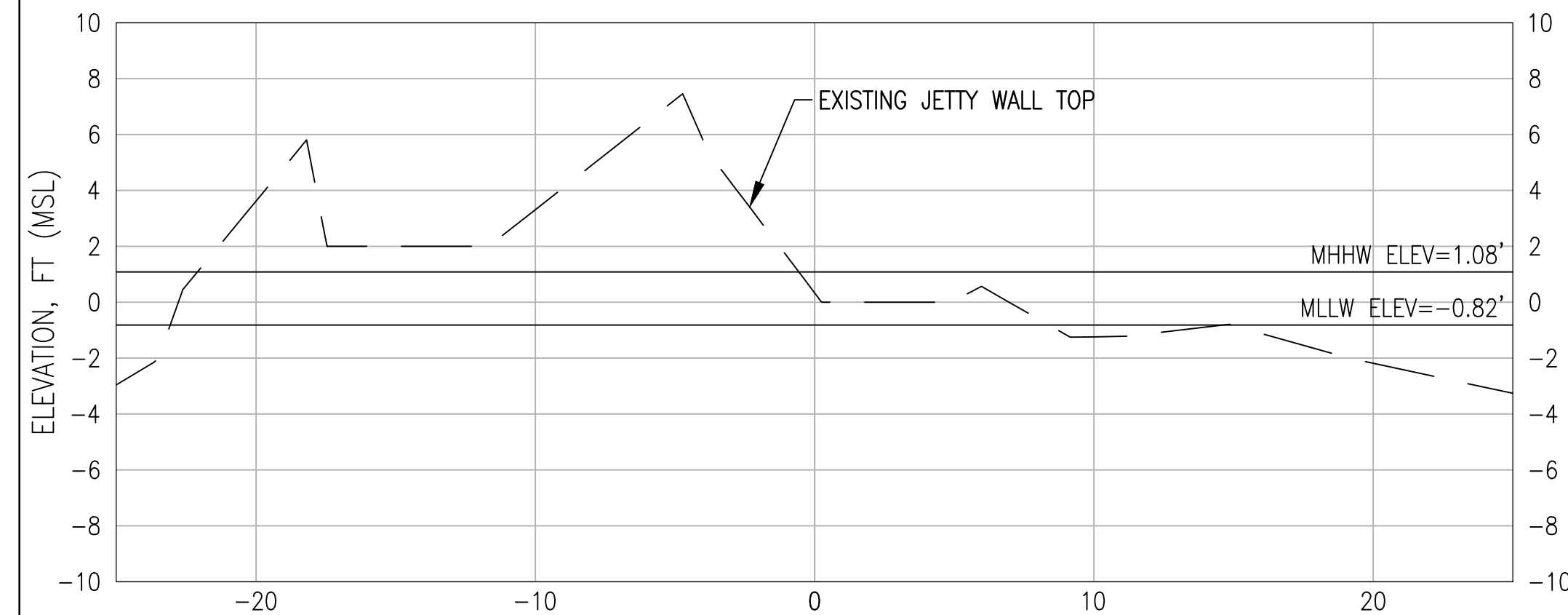


KEY PLAN
NOT TO SCALE

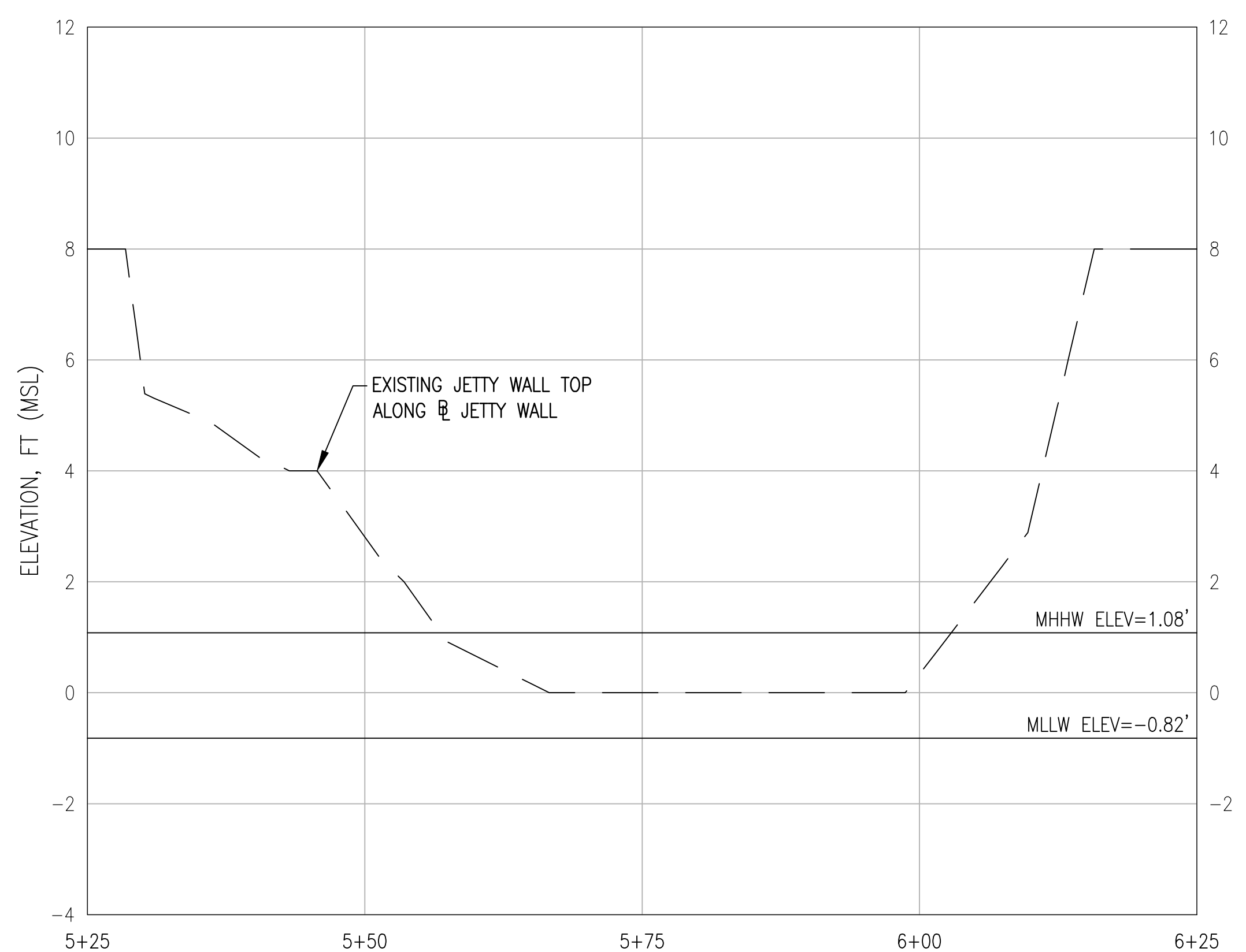
SITE 3 PLAN - B STA 5+25 TO 6+25
SCALE: 1" = 10'



SITE 3 SECTION - B STA 5+50
SCALES: HOR: 1" = 5'
VERT: 1" = 5'



SITE 3 SECTION - B STA 6+00
SCALES: HOR: 1" = 5'
VERT: 1" = 5'

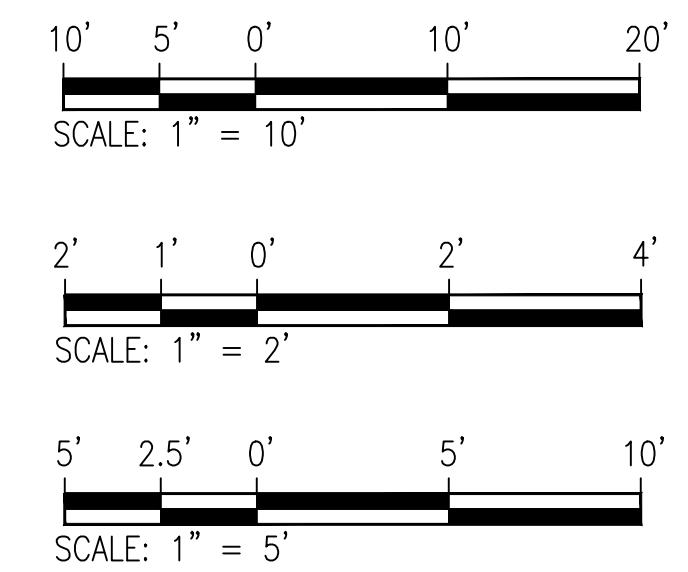


SITE 3 PROFILE - B STA 5+25 TO 6+25
SCALES: HOR: 1" = 10'
VERT: 1" = 2'

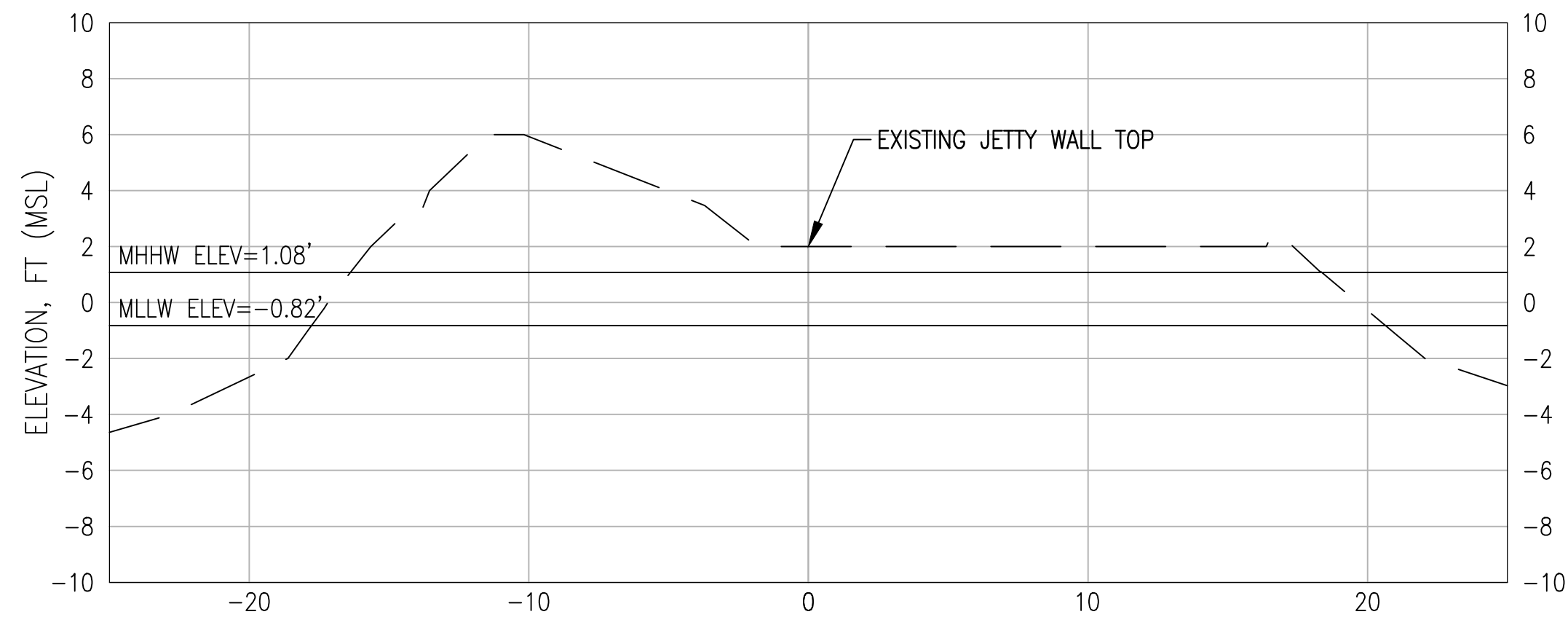
LEGEND:

- EXISTING ROCK STRUCTURE
- APPROX EDGE OF JETTY WALL
- MAJOR CONTOUR
- MINOR CONTOUR

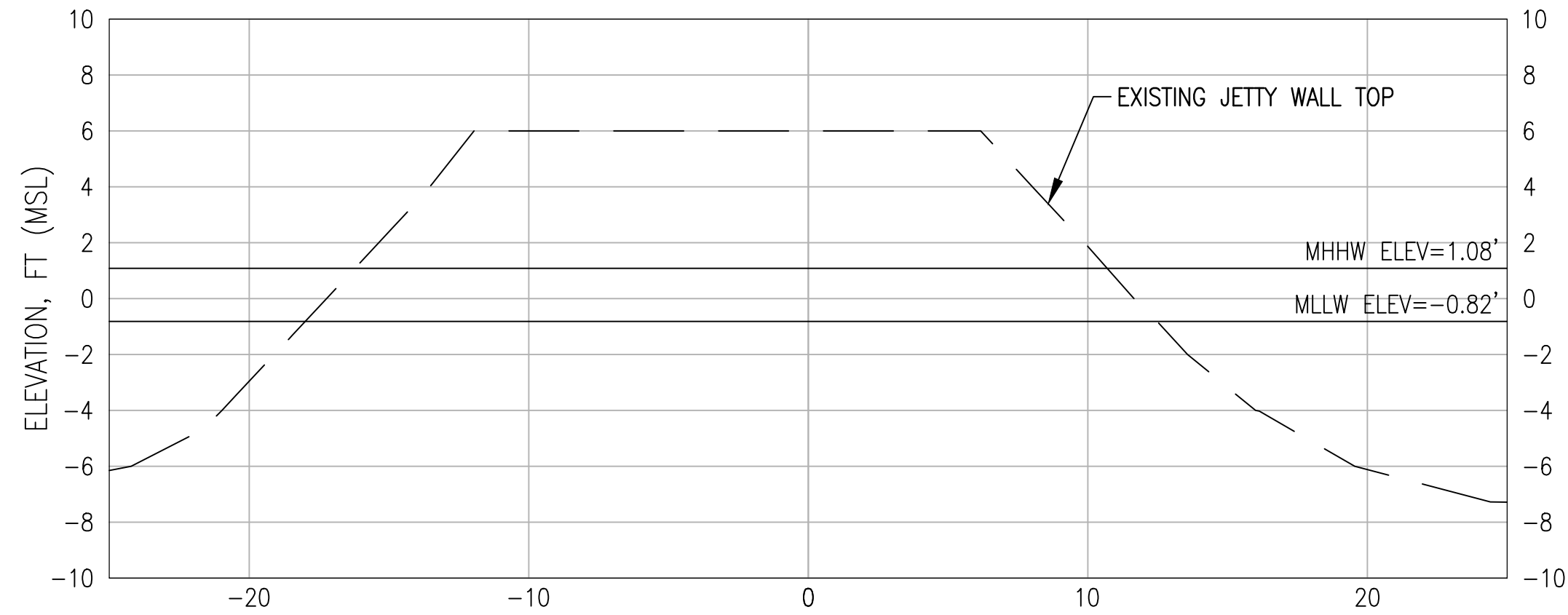
GRAPHIC SCALE:



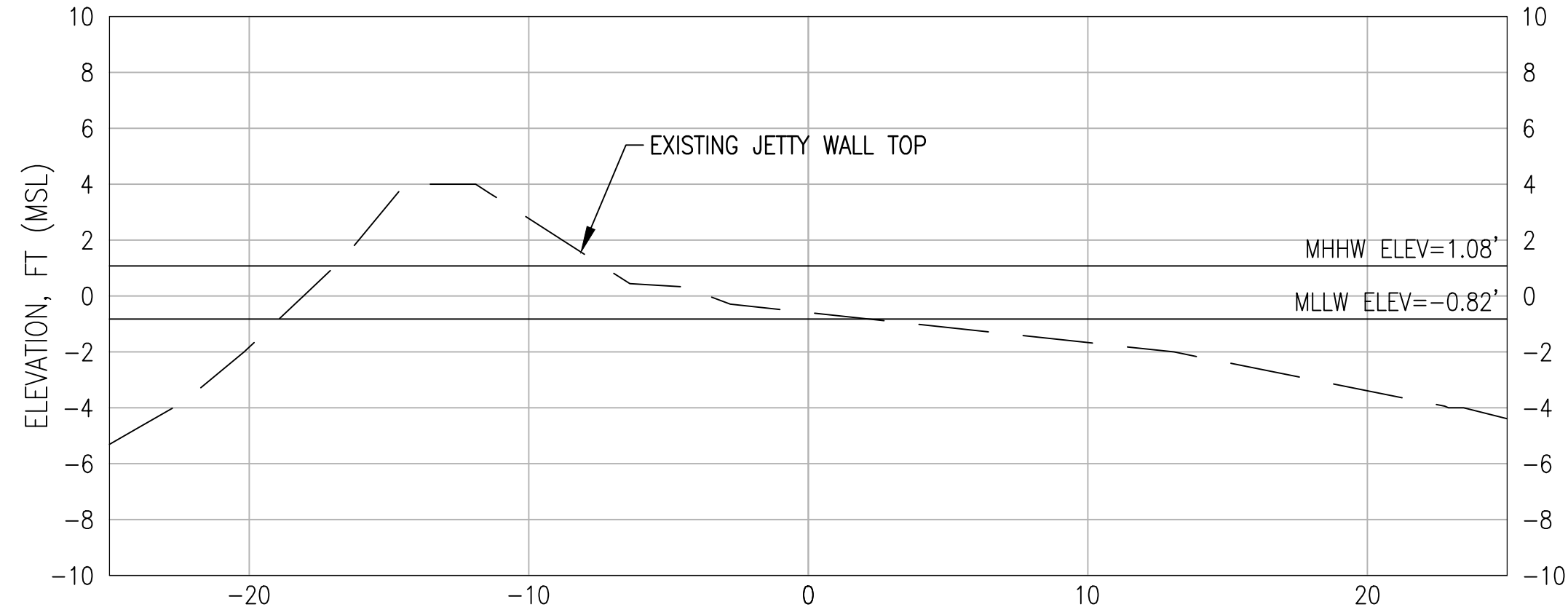
REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES DIVISION OF BOATING AND OCEAN RECREATION					
POKAI BAY JETTY WALL IMPROVEMENTS					
ENLARGED EXISTING SITE PLAN - 3					
			DESIGNED: RM DRAWN: NP, DA CHECKED: CN APPROVED: _____ CHIEF ENGINEER		
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. SIGNATURE _____ EXP. DATE OF THE LICENSE 4/30/2028			SUBMITTED: _____ DATE: 04/30/2026 SCALE: AS NOTED DRAWING NO. C-006		



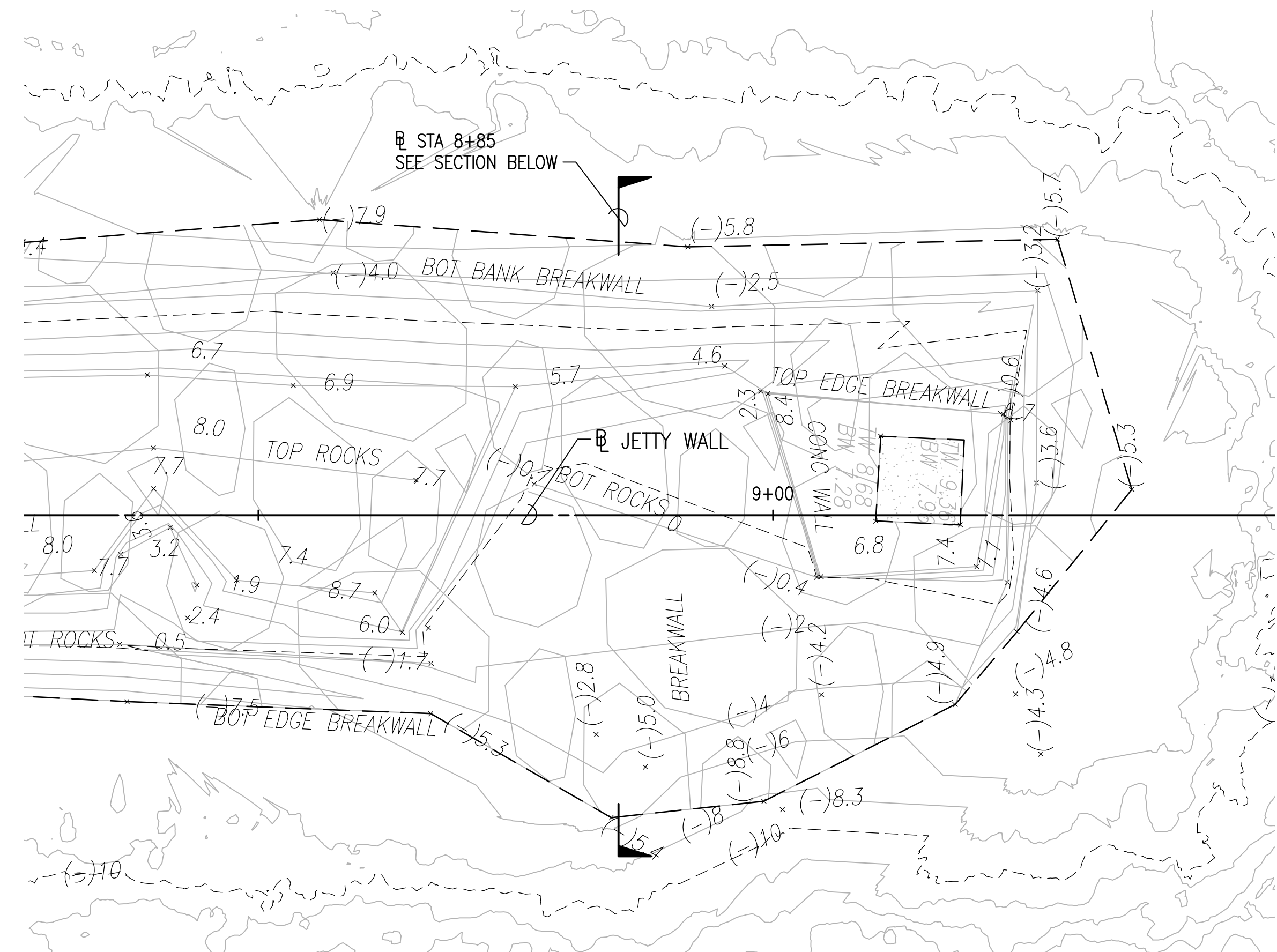
SITE 4 SECTION - STA 6+75
 SCALES: HOR: 1" = 5'
 VERT: 1" = 5'



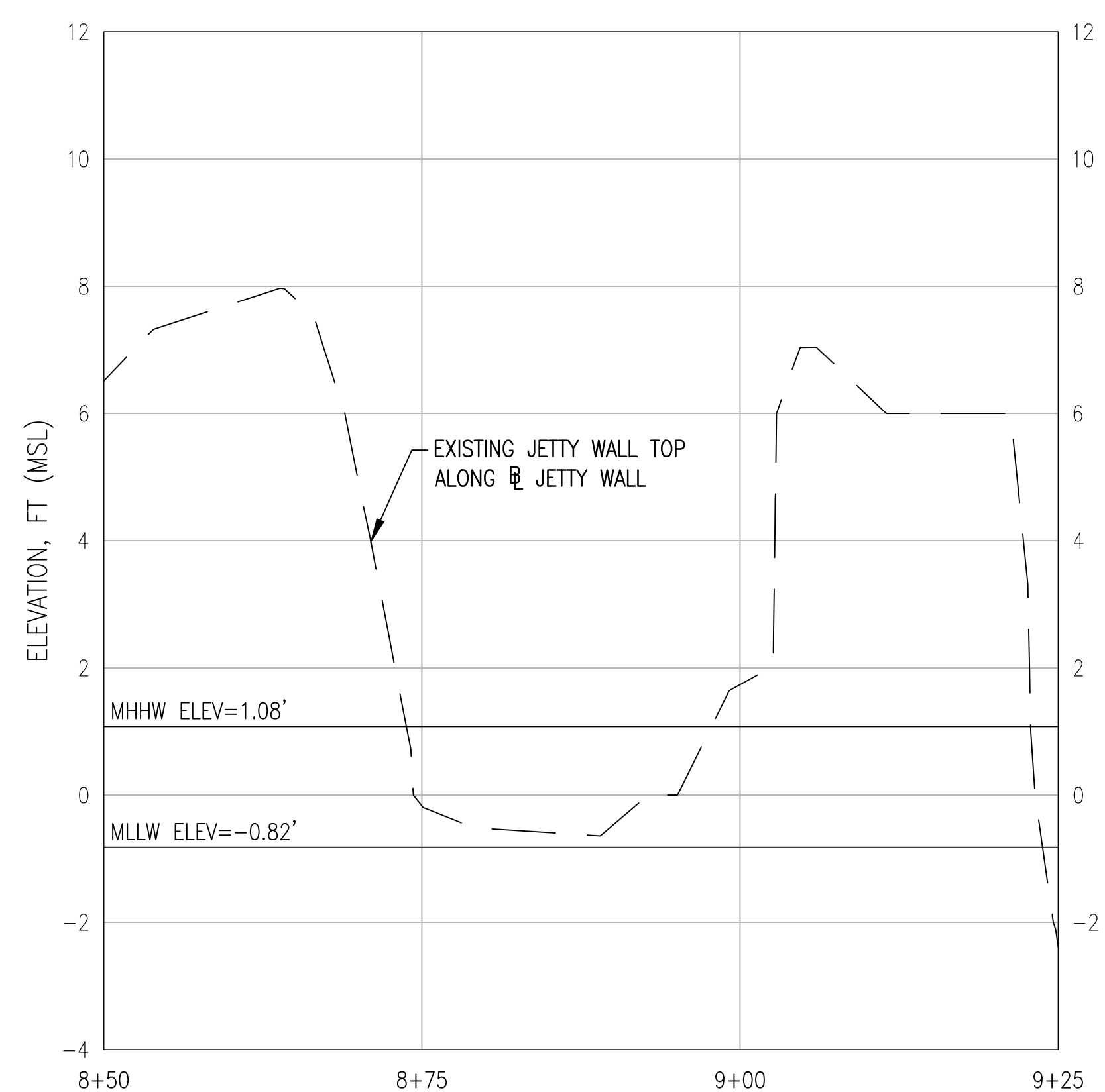
SITE 4 SECTION - STA 7+25
 SCALES: HOR: 1" = 5'
 VERT: 1" = 5'



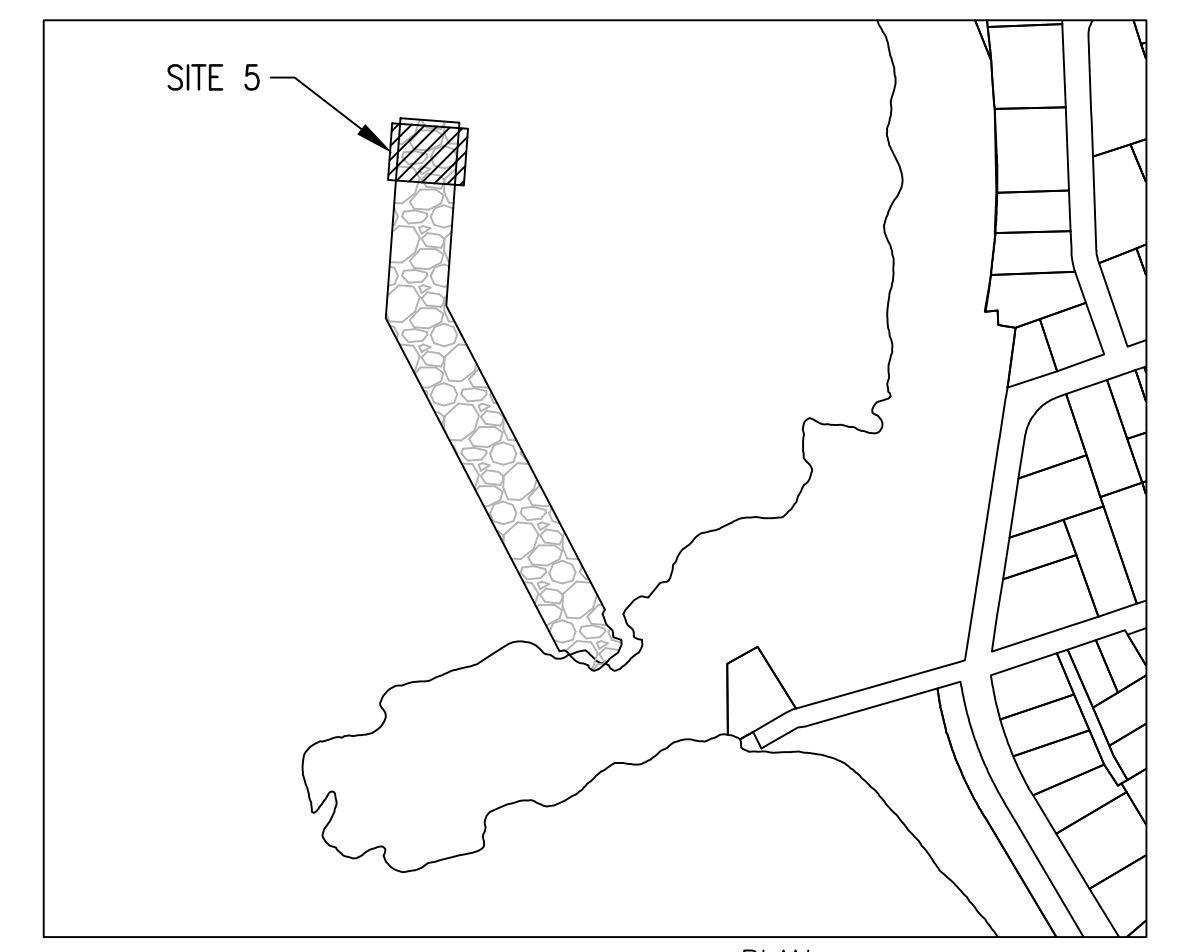
SITE 5 SECTION - STA 8+85
 SCALES: HOR: 1" = 5'
 VERT: 1" = 5'



SITE 5 PLAN - STA 8+50 TO 9+25
 SCALE: 1" = 10'



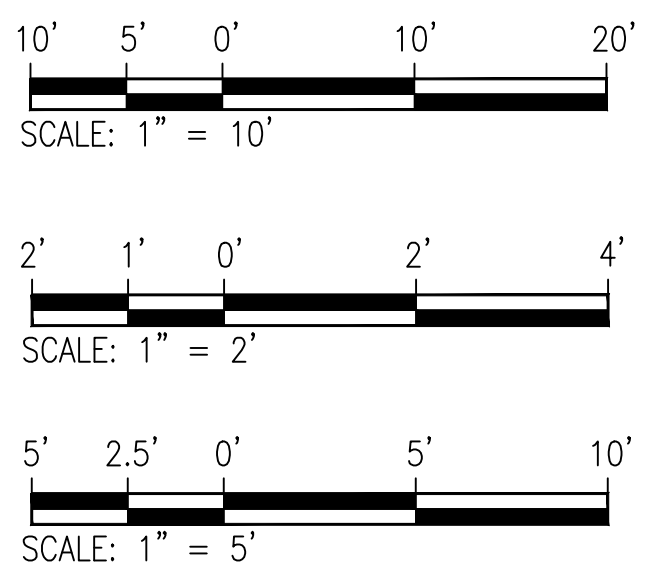
SITE 5 PROFILE - STA 8+50 TO 9+25
 SCALES: HOR: 1" = 10'
 VERT: 1" = 2'



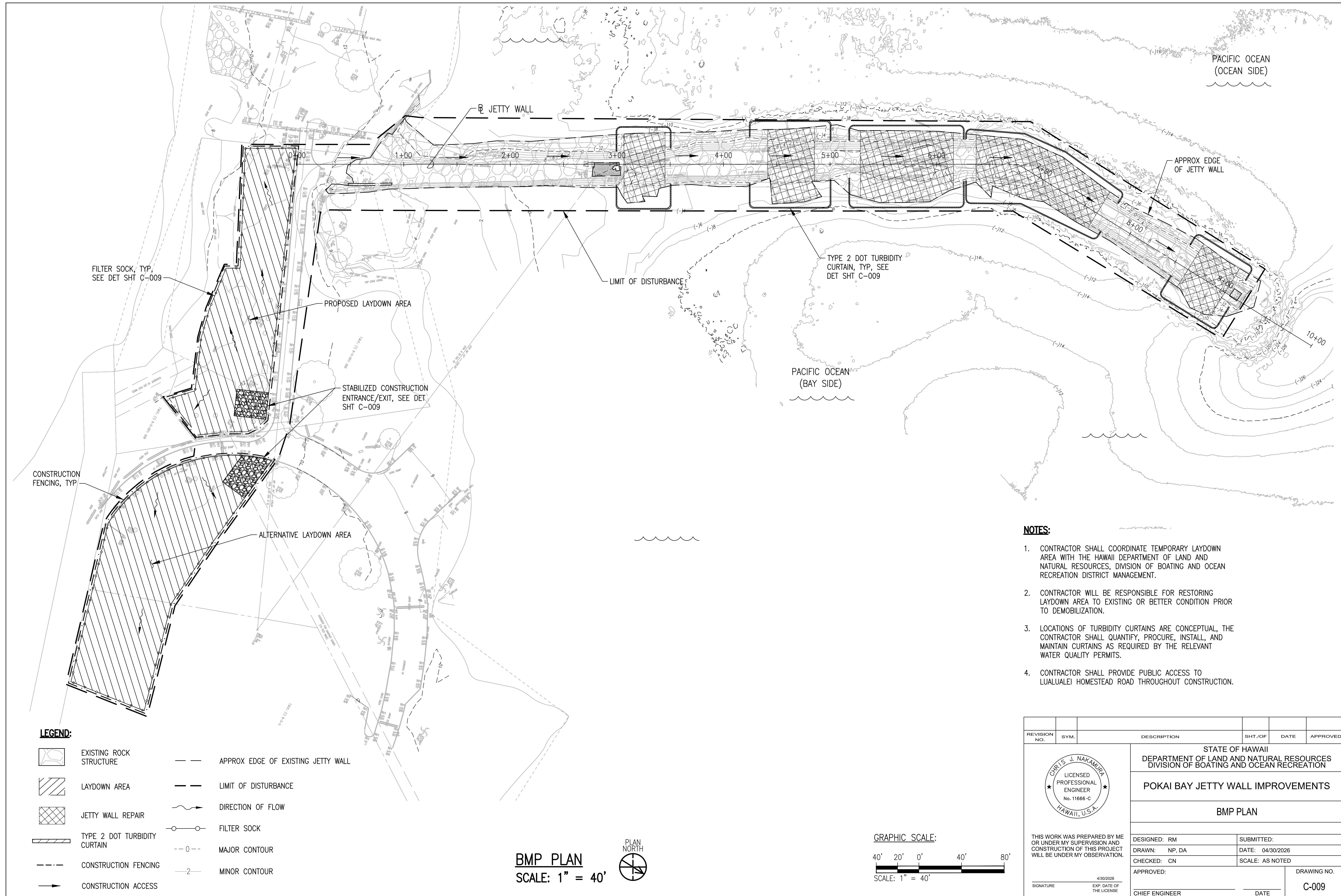
LEGEND:

- EXISTING ROCK STRUCTURE
- APPROX EDGE OF JETTY WALL
- MAJOR CONTOUR
- MINOR CONTOUR

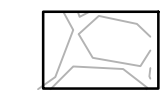
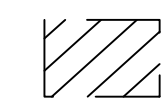
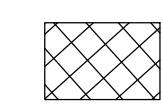
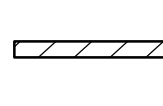
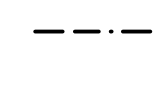
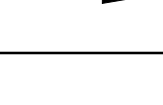
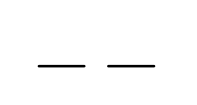
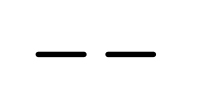
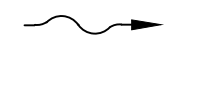
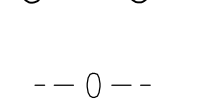
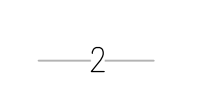
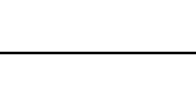
GRAPHIC SCALE:



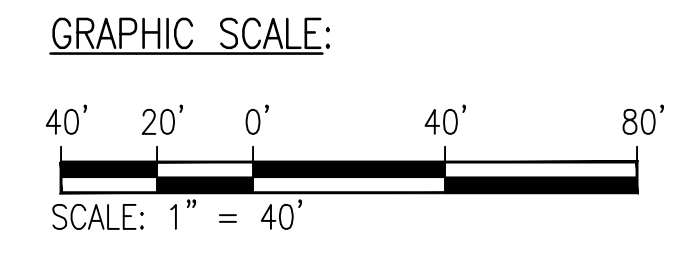
REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES DIVISION OF BOATING AND OCEAN RECREATION					
POKAI BAY JETTY WALL IMPROVEMENTS					
ENLARGED EXISTING SITE PLAN - 5					
DESIGNED: RM			SUBMITTED:		
DRAWN: NP, DA			DATE: 04/30/2026		
CHECKED: CN			SCALE: AS NOTED		
APPROVED:			DRAWING NO.		
SIGNATURE			C-008		
4/30/2026 EXP. DATE OF THE LICENSE			DATE		
CHIEF ENGINEER			DATE		



LEGEND:

-  EXISTING ROCK STRUCTURE
-  LAYDOWN AREA
-  JETTY WALL REPAIR
-  TYPE 2 DOT TURBIDITY CURTAIN
-  CONSTRUCTION FENCING
-  CONSTRUCTION ACCESS
-  APPROX EDGE OF EXISTING JETTY WALL
-  LIMIT OF DISTURBANCE
-  DIRECTION OF FLOW
-  FILTER SOCK
-  MAJOR CONTOUR
-  MINOR CONTOUR

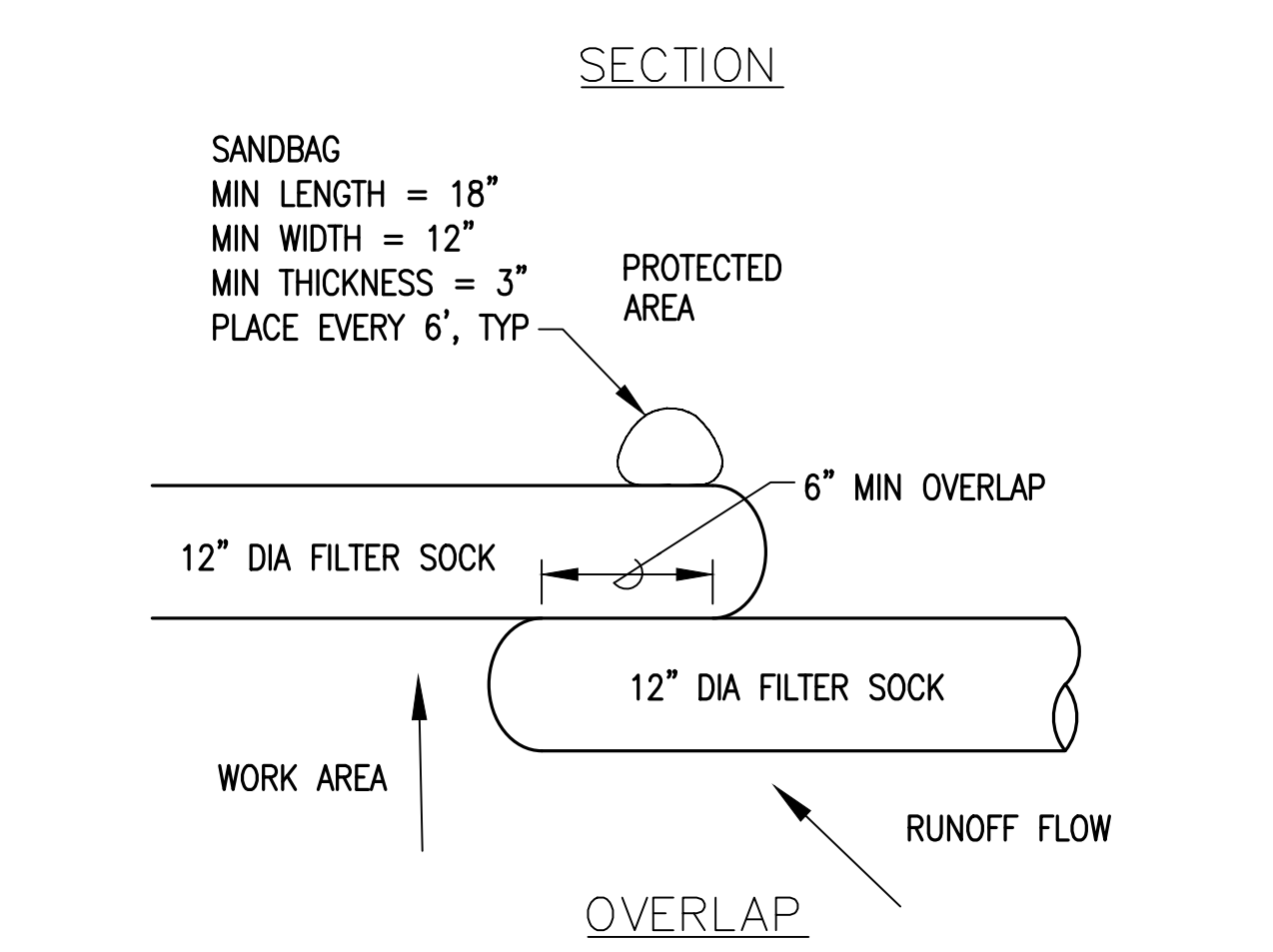
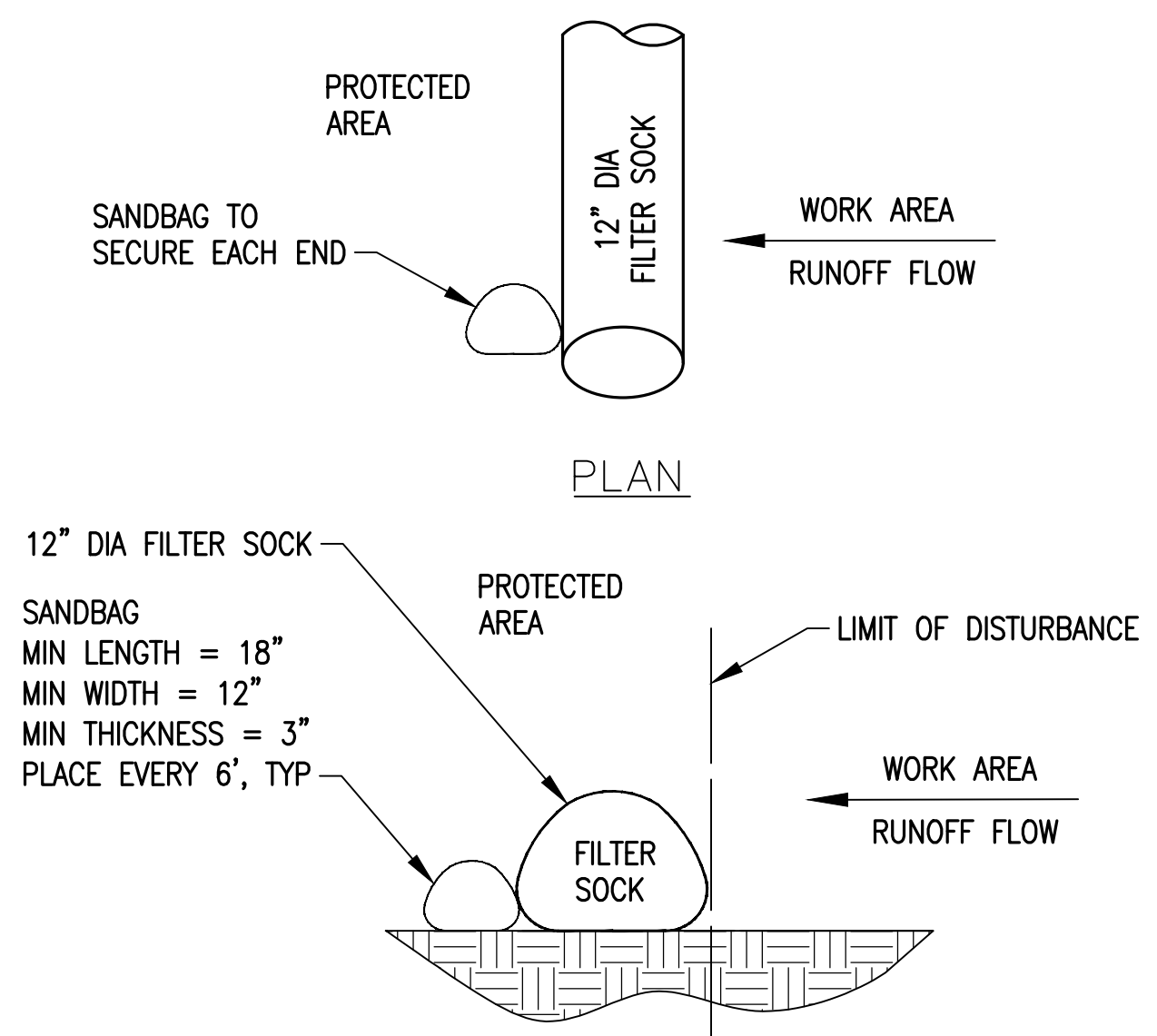
BMP PLAN
SCALE: 1" = 40'



NOTES:

1. CONTRACTOR SHALL COORDINATE TEMPORARY LAYDOWN AREA WITH THE HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES, DIVISION OF BOATING AND OCEAN RECREATION DISTRICT MANAGEMENT.
2. CONTRACTOR WILL BE RESPONSIBLE FOR RESTORING LAYDOWN AREA TO EXISTING OR BETTER CONDITION PRIOR TO DEMOBILIZATION.
3. LOCATIONS OF TURBIDITY CURTAINS ARE CONCEPTUAL, THE CONTRACTOR SHALL QUANTIFY, PROCURE, INSTALL, AND MAINTAIN CURTAINS AS REQUIRED BY THE RELEVANT WATER QUALITY PERMITS.
4. CONTRACTOR SHALL PROVIDE PUBLIC ACCESS TO LUALALEI HOMESTEAD ROAD THROUGHOUT CONSTRUCTION.

REVISION NO.	SYM.	DESCRIPTION	SHT. OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES DIVISION OF BOATING AND OCEAN RECREATION					
POKAI BAY JETTY WALL IMPROVEMENTS					
BMP PLAN					
DESIGNED: RM			SUBMITTED:		
DRAWN: NP, DA			DATE: 04/30/2026		
CHECKED: CN			SCALE: AS NOTED		
APPROVED:			DRAWING NO.		
SIGNATURE			DATE		
CHIEF ENGINEER			C-009		



- NOTES:**
1. INSTALLATION, INSPECTION, MAINTENANCE AND REMOVAL OF COMPOST FILTER SOCKS SHALL BE DONE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
 2. PROVIDE NECESSARY TRAINING FOR PERSONNEL WHO WILL BE RESPONSIBLE FOR IMPLEMENTATION OF BMPS.
 3. FILTER SOCK OUTER/ENCASEMENT MATERIAL SHALL BE UV-RESISTANT, DROUGHT-TOLERANT, MARINE-TOLERANT, BRIGHT YELLOW OR ORANGE, AND MULTI-FILAMENT POLYPROPYLENE OR MONOFILAMENT WOMEN HDPE FABRIC WITH FLOW RANGE OF 185 GPM/SF TO 240 GPM/SF.

FILTER SOCK
NOT TO SCALE

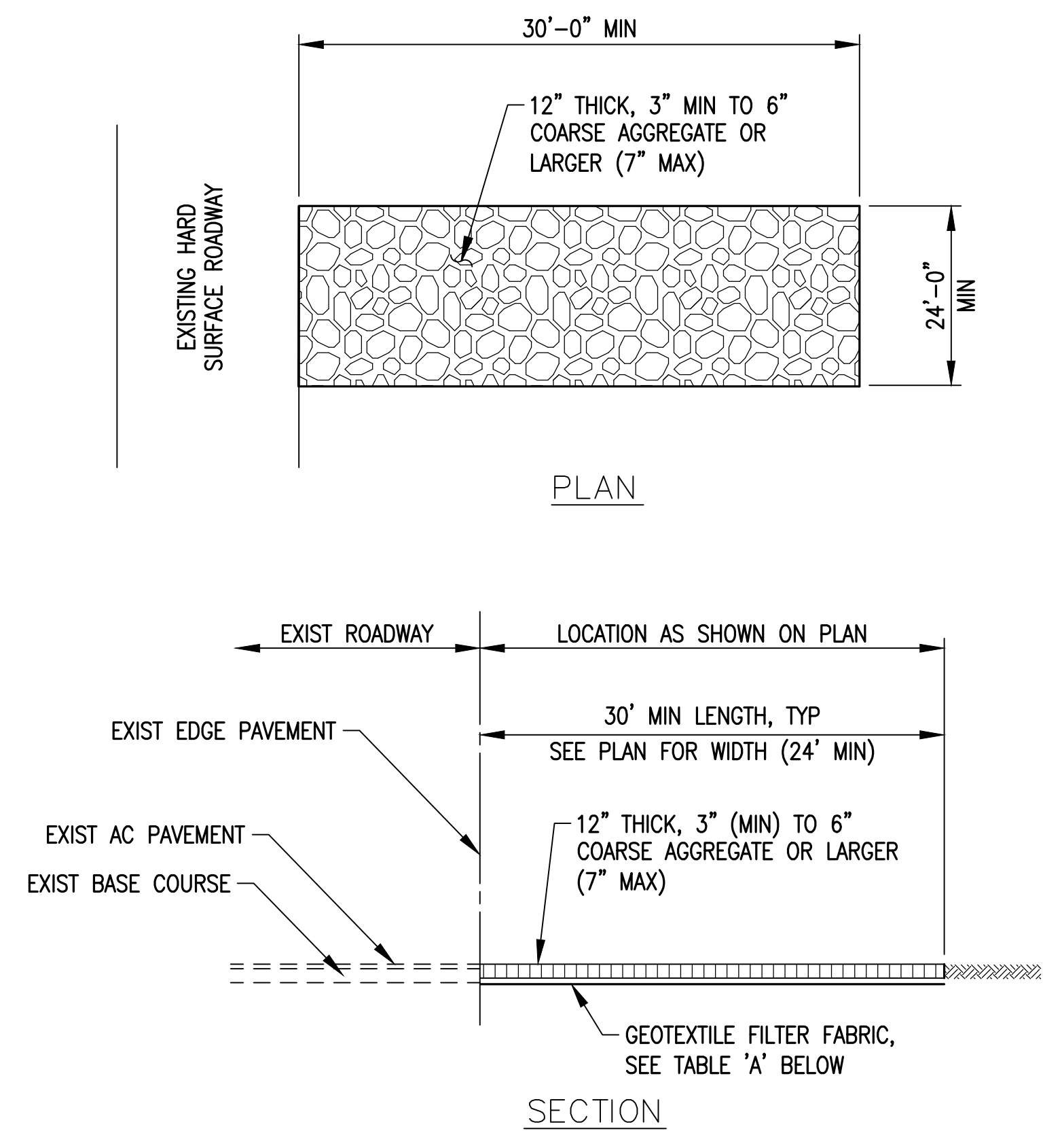
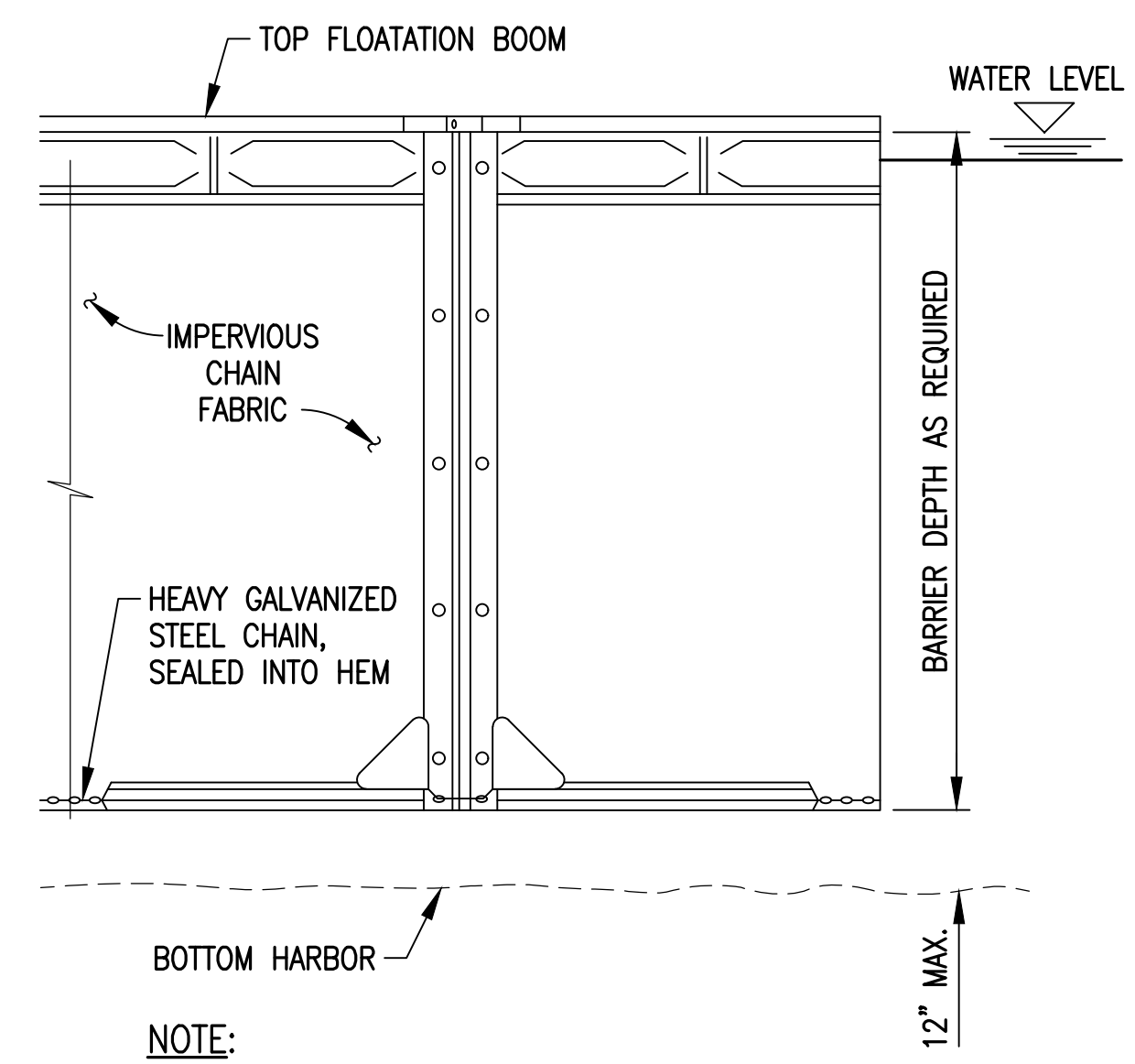


TABLE A - GEOTEXTILE REQUIREMENTS

PHYSICAL PROPERTY	REQUIREMENTS
GRAB TENSILE STRENGTH	220 LB (ASTM D1682)
ELONGATION FAILURE	60% (ASTM D1682)
MULLEN BURST STRENGTH	430 LB (ASTM D3768)
PUNCTURE STRENGTH	125 LB (ASTM D751, MODIFIED)
EQUIVALENT OPENING	SIZE 40-80 (U.S. STD SIEVE, CW-02215)

STABILIZED CONSTRUCTION EXIT/ENTRANCE
NOT TO SCALE



NOTE:
CONTRACTOR SHALL PROVIDE BOOM ANCHORS AS RECOMMENDED BY THE MANUFACTURER.

TYPE 2 DOT TURBIDITY CURTAIN
NOT TO SCALE

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES DIVISION OF BOATING AND OCEAN RECREATION					
POKAI BAY JETTY WALL IMPROVEMENTS					
BMP DETAILS					
DESIGNED: RM		SUBMITTED:			
DRAWN: NP, DA		DATE: 04/30/2026			
CHECKED: CN		SCALE: AS NOTED			
APPROVED:		DATE		DRAWING NO.	
CHIEF ENGINEER		DATE		C-010	

COURT J. NAKAMURA
LICENSED PROFESSIONAL ENGINEER
No. 11666-C
HAWAII, U.S.A.

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

4/30/2026
SIGNATURE EXP. DATE OF THE LICENSE

BENCHMARK
N 99,631.22
E 1,575,554.11
BRASS DISK
ELEV = 11.20 (MSL)

346° 22' 00"
41.16
(BENCHMARK TO P.I. STA 0+00)

SITE 1 BASE BID
P.I. STA 3+05± TO
P.I. STA 3+45±

SITE 2 ADDITIVE BID 1
P.I. STA 4+40± TO
P.I. STA 4+85±

SITE 3 ADDITIVE BID 2
P.I. STA 5+30± TO
P.I. STA 6+15±

SITE 4 ADDITIVE BID 3
P.I. STA 6+35± TO
P.I. STA 7+65±

SITE 5 ADDITIVE BID 4
P.I. STA 8+65± TO
P.I. STA 9+05±

152° 24' 41"
676.16
(P.I. STA 0+00 TO P.I.)



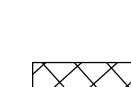
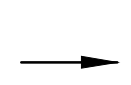
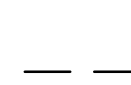

184° 10' 0"
323.84
(P.I. TO P.I. STA 10+00)

CONTROL PT.
N 99,809.96
E 1,575,998.34
MAG NAIL
ELEV = 10.35 (MSL)

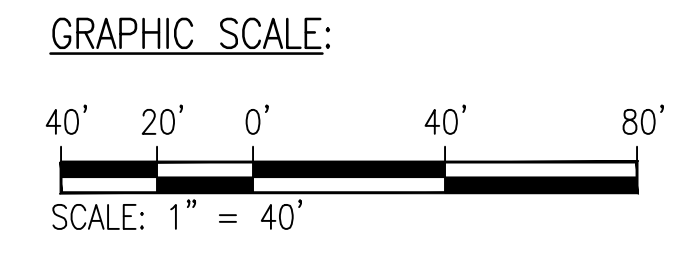
338° 5' 00"
(BENCHMARK TO CONTROL PT.)

478.84
(P.I.)

LEGEND:

-  EXISTING ROCK STRUCTURE
-  LAYDOWN AREA
-  JETTY WALL REPAIR
-  CONSTRUCTION ACCESS
-  APPROX EDGE OF EXISTING JETTY WALL
-  LIMIT OF DISTURBANCE

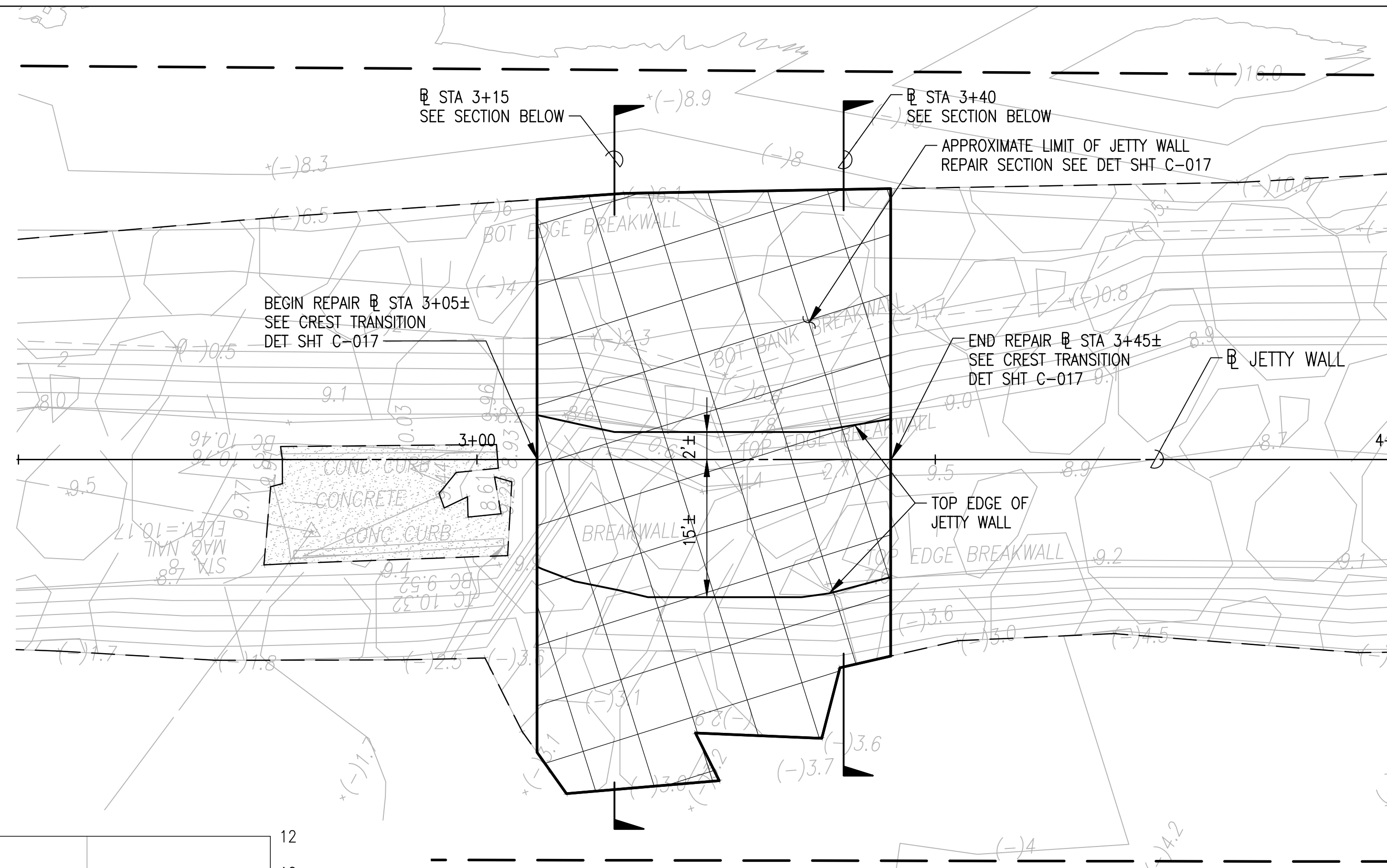
PROJECT LAYOUT - OVERALL PROJECT
SCALE: 1" = 40'



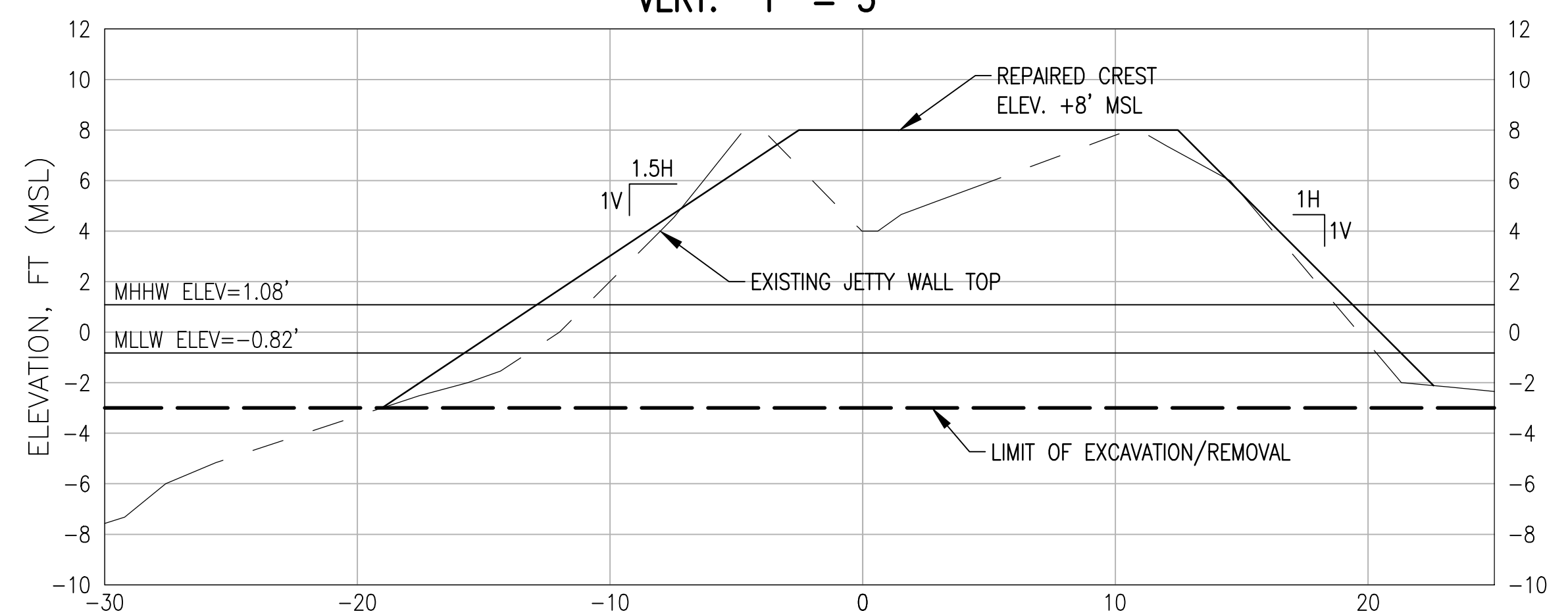
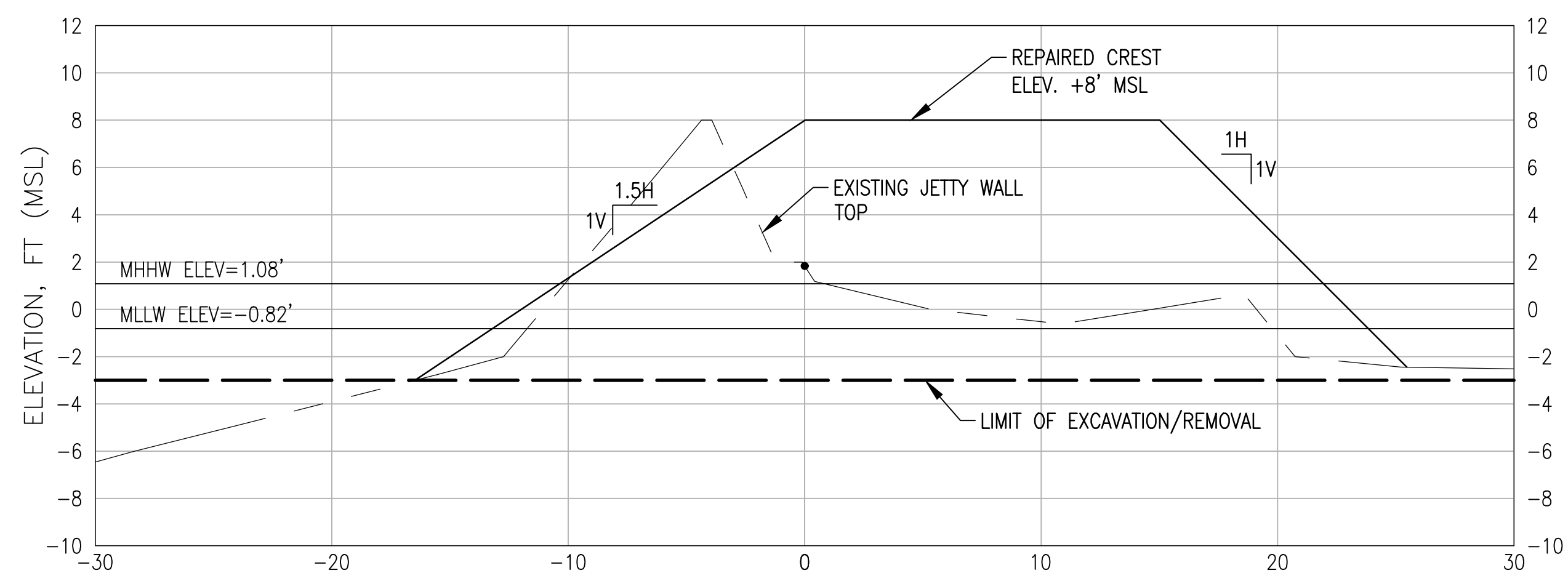
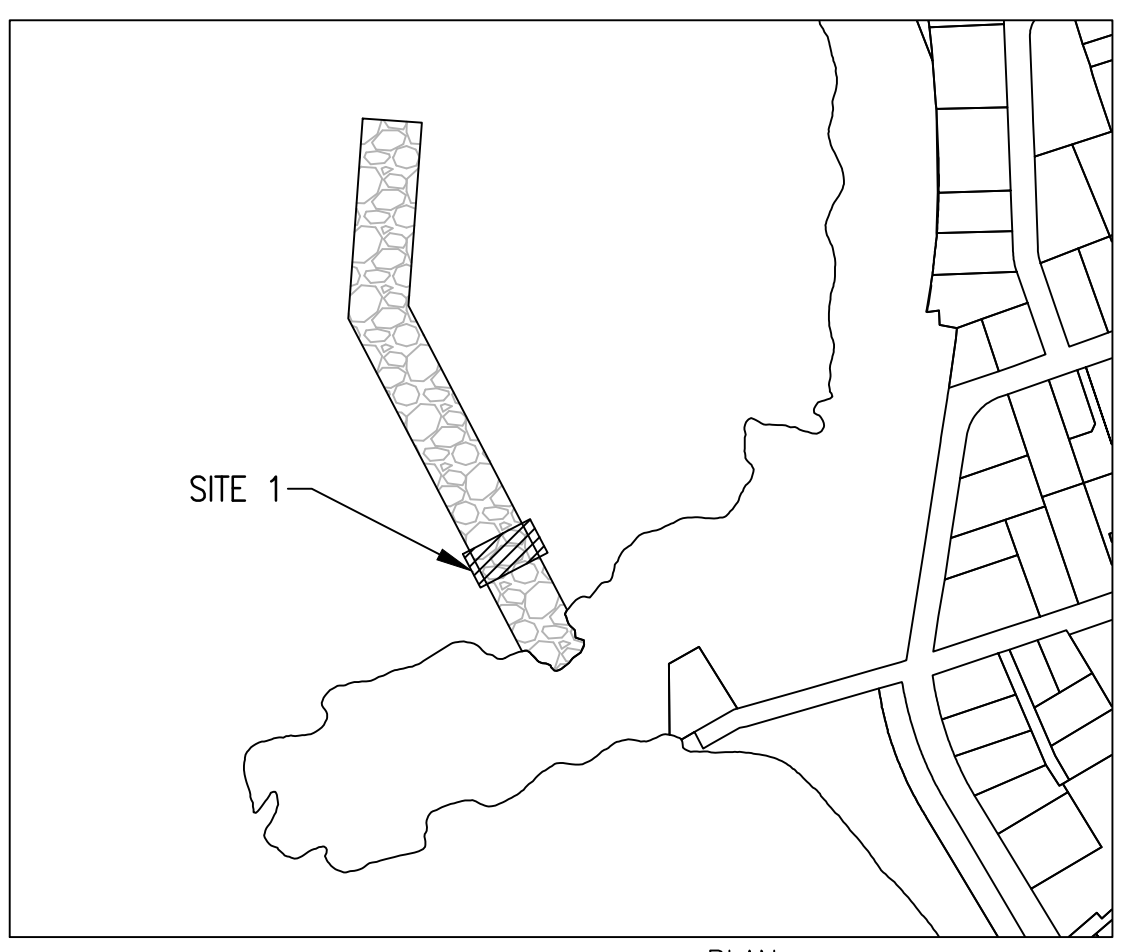
NOTE:

CONTRACTOR SHALL COORDINATE TEMPORARY LAYDOWN AREA WITH THE HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES, DIVISION OF BOATING AND OCEAN RECREATION DISTRICT MANAGEMENT.

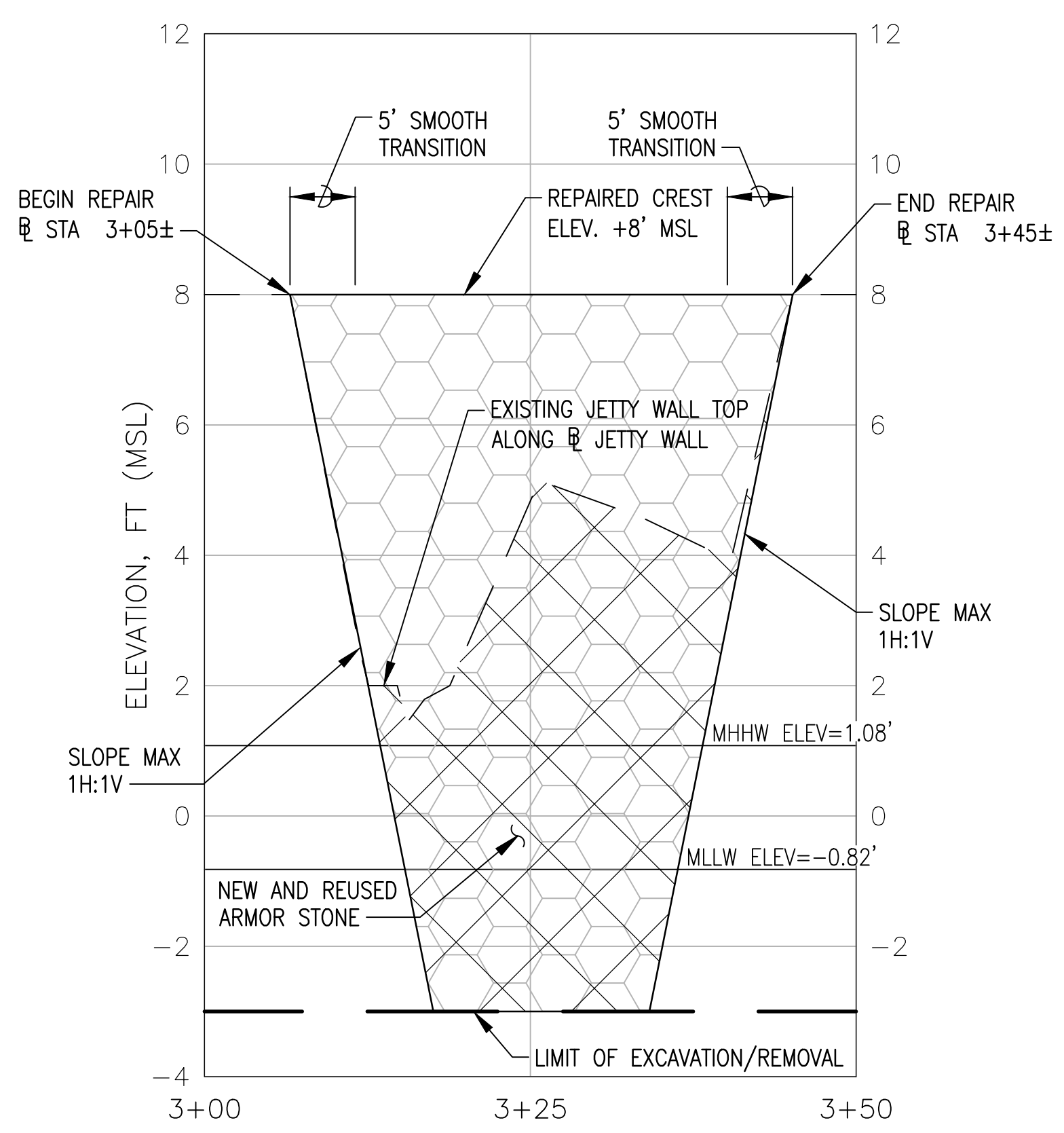
REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES DIVISION OF BOATING AND OCEAN RECREATION					
POKAI BAY JETTY WALL IMPROVEMENTS					
PROJECT LAYOUT - OVERALL PROJECT					
DESIGNED: RM		SUBMITTED:			
DRAWN: NP, DA		DATE: 04/30/2026			
CHECKED: CN		SCALE: AS NOTED			
APPROVED:		SIGNATURE		DRAWING NO.	
CHIEF ENGINEER		DATE		C-011	



NOTE:
REPAIR WORK SHALL BE CONSTRUCTED TO PROVIDE A SMOOTH AND CONTINUOUS TRANSITION OF CREST ELEVATION, CREST WIDTH, AND SIDE SLOPES TO MATCH THE ADJACENT EXISTING BREAKWATER ON BOTH ENDS OF THE REPAIR(S). NO ABRUPT GRADE CHANGES SHALL OCCUR UNLESS OTHERWISE APPROVED BY THE ENGINEER.



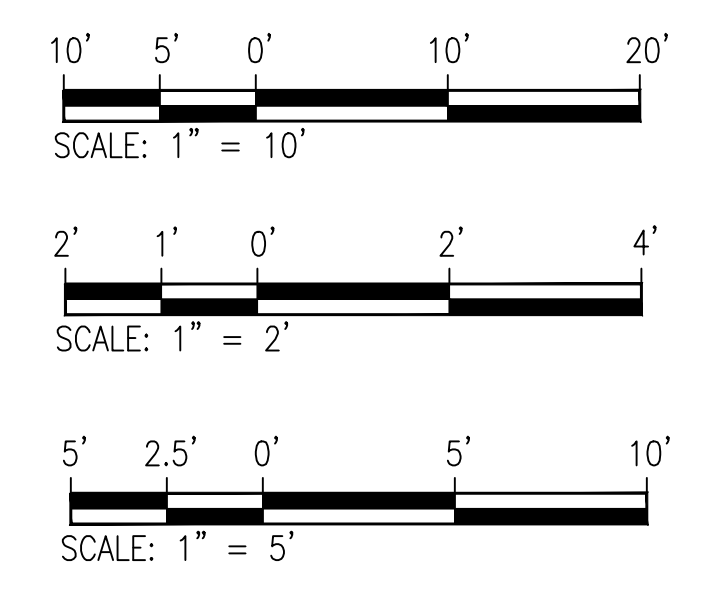
SITE 1 PLAN - @ STA 3+00 TO 3+50
SCALE: 1" = 10'



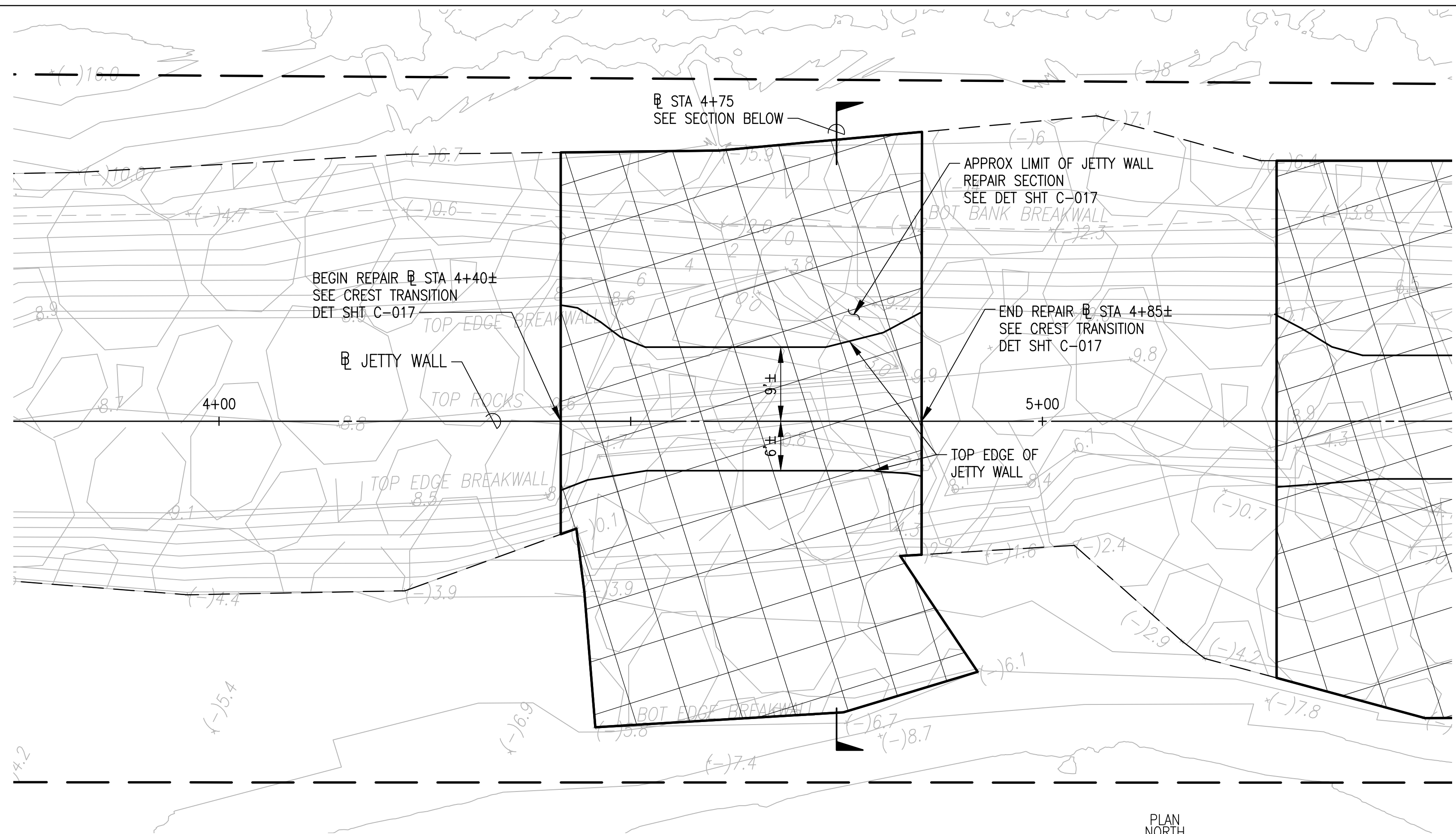
LEGEND:

- EXISTING ROCK STRUCTURE
- APPROX EDGE OF JETTY WALL
- NEW AND REUSED ARMOR STONE
- JETTY WALL REPAIR/REMOVAL
- LIMIT OF DISTURBANCE

GRAPHIC SCALE:

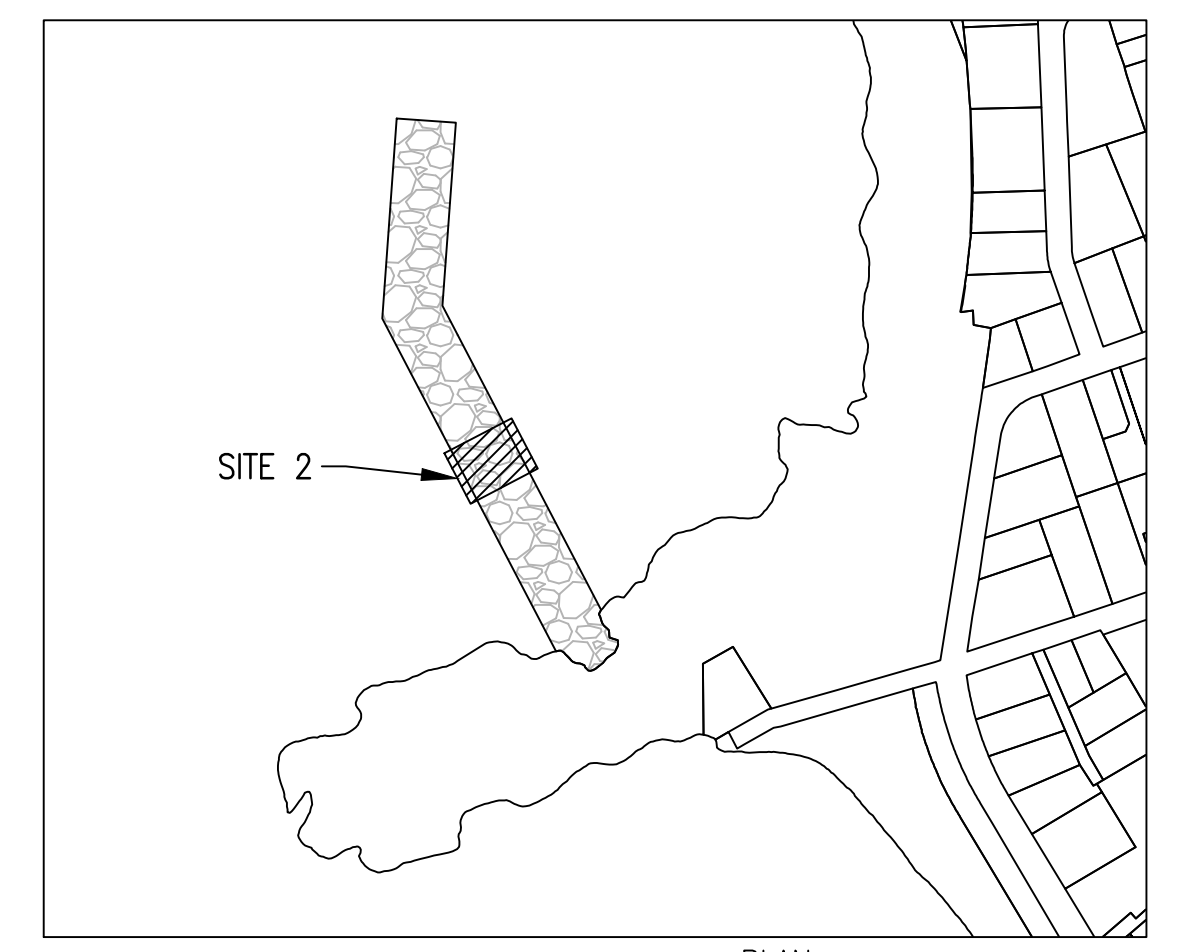


REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES DIVISION OF BOATING AND OCEAN RECREATION					
POKAI BAY JETTY WALL IMPROVEMENTS					
ENLARGED PROJECT LAYOUT SITE - 1					
DESIGNED: RM		SUBMITTED:			
DRAWN: NP, DA		DATE: 04/30/2026			
CHECKED: CN		SCALE: AS NOTED			
APPROVED:		DRAWING NO.			
SIGNATURE		DATE		C-012	
4/30/2026 EXP. DATE OF THE LICENSE		CHIEF ENGINEER			



NOTE:
REPAIR WORK SHALL BE CONSTRUCTED TO PROVIDE A SMOOTH AND CONTINUOUS TRANSITION OF CREST ELEVATION, CREST WIDTH, AND SIDE SLOPES TO MATCH THE ADJACENT EXISTING BREAKWATER ON BOTH ENDS OF THE REPAIR(S). NO ABRUPT GRADE CHANGES SHALL OCCUR UNLESS OTHERWISE APPROVED BY THE ENGINEER.

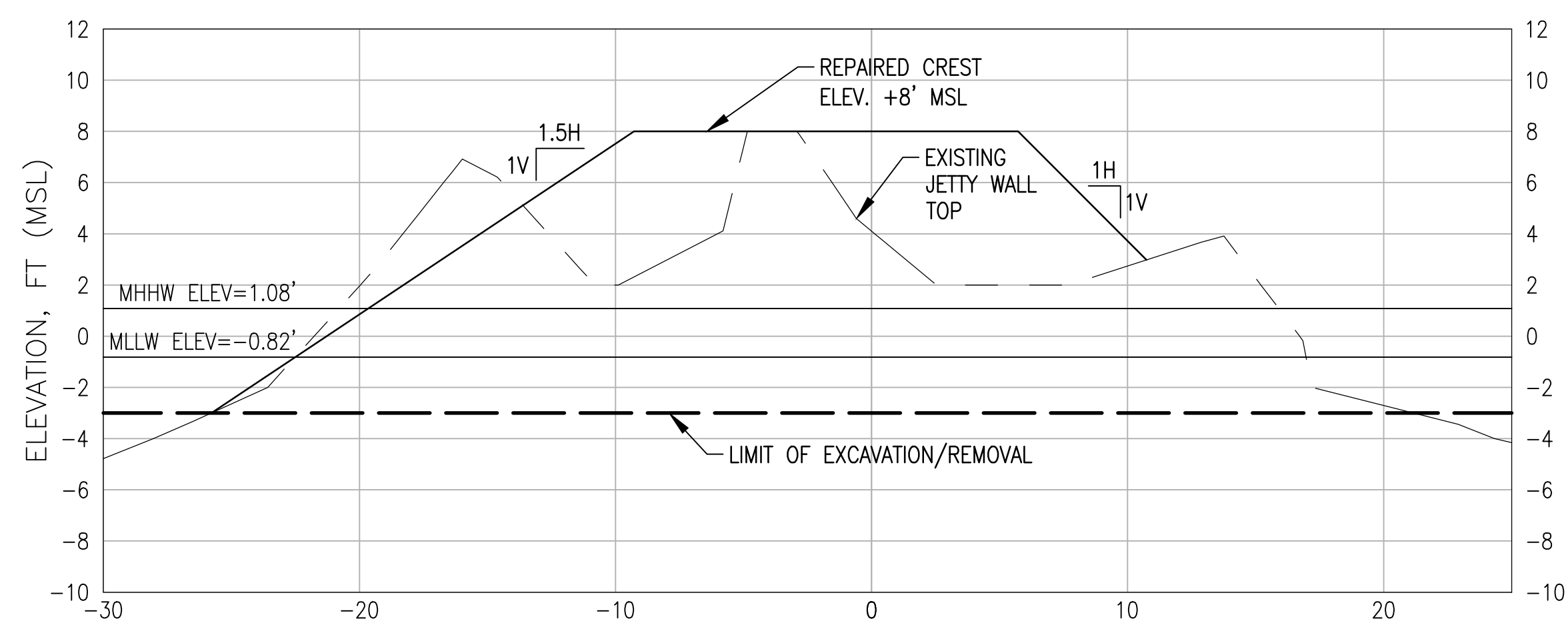
SITE 2 PLAN - B STA 4+25 TO 5+00
SCALE: 1" = 10'



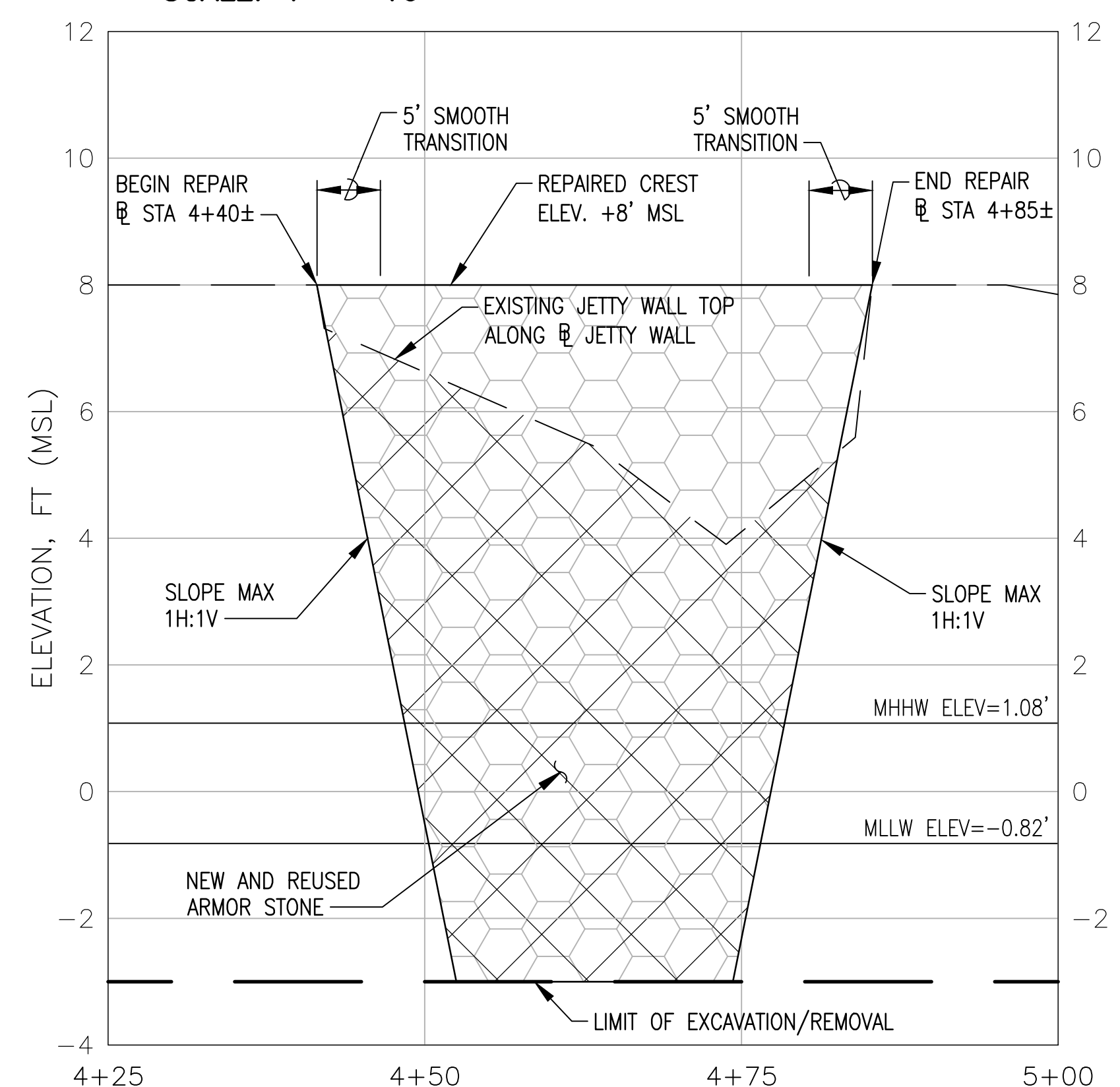
KEY PLAN
NOT TO SCALE



GROUND PHOTOGRAPH - SITE 2
APPROX. B STA 4+25, LOOKING NORTH



SITE 2 SECTION - B STA 4+75
SCALES: HOR: 1" = 5'
VERT: 1" = 5'

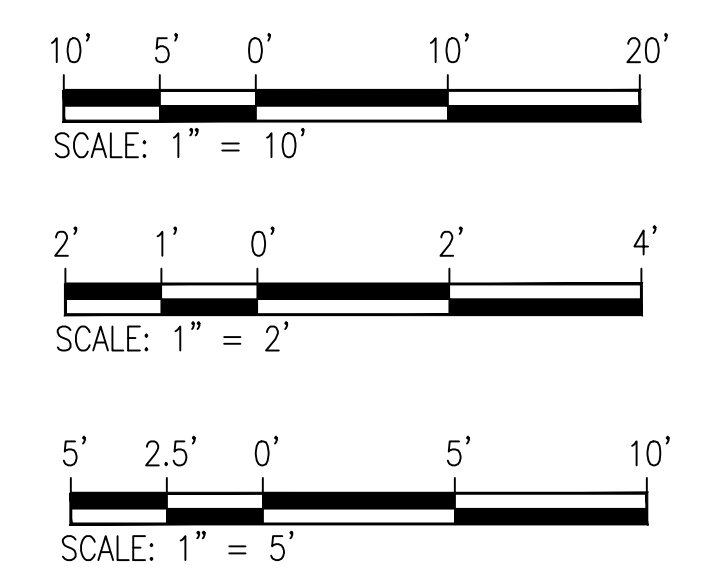


SITE 2 PROFILE - B STA 4+25 TO 5+00
SCALES: HOR: 1" = 10'
VERT: 1" = 2'

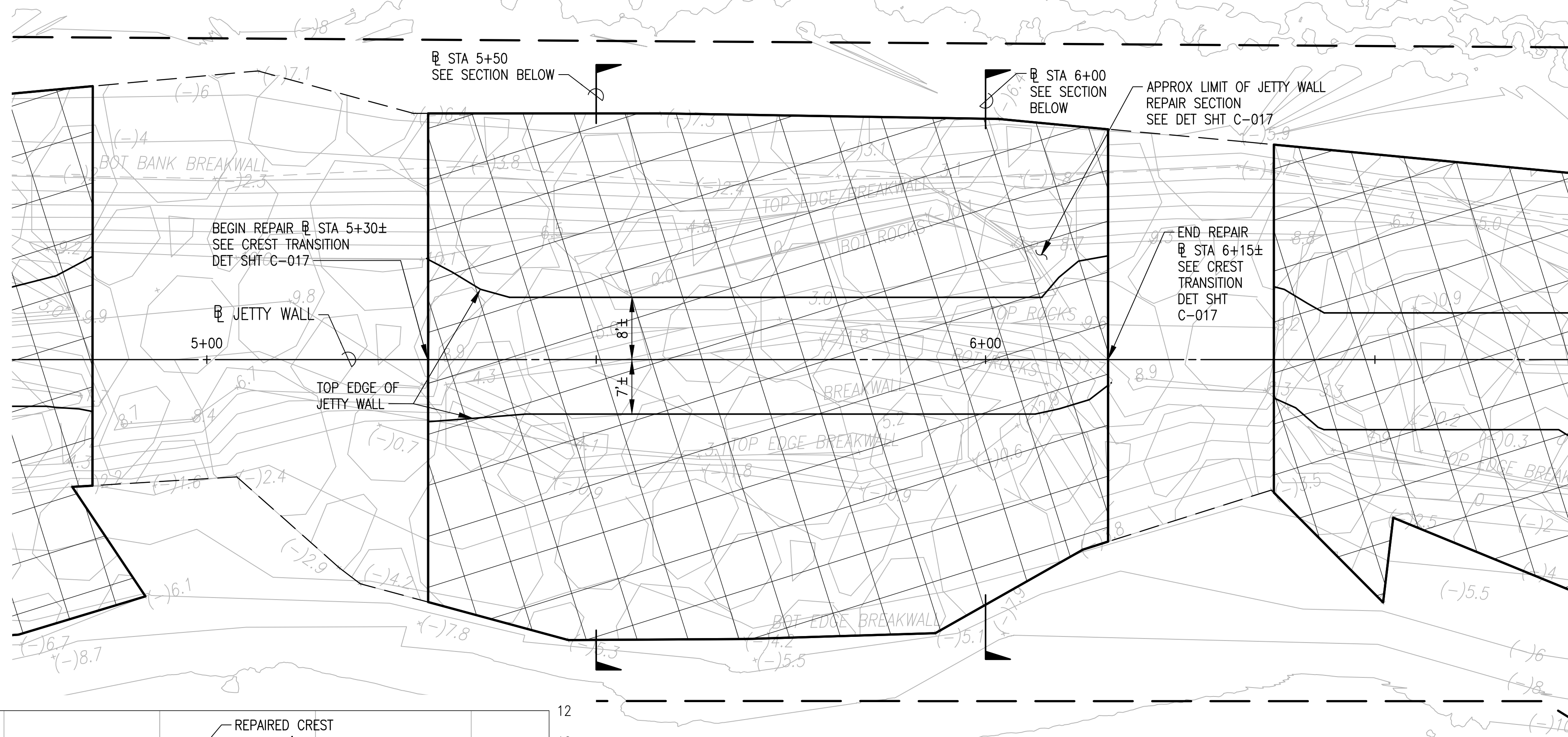
LEGEND:

- EXISTING ROCK STRUCTURE
- APPROX EDGE OF JETTY WALL
- NEW AND REUSED ARMOR STONE
- JETTY WALL REPAIR/REMOVAL
- LIMIT OF DISTURBANCE

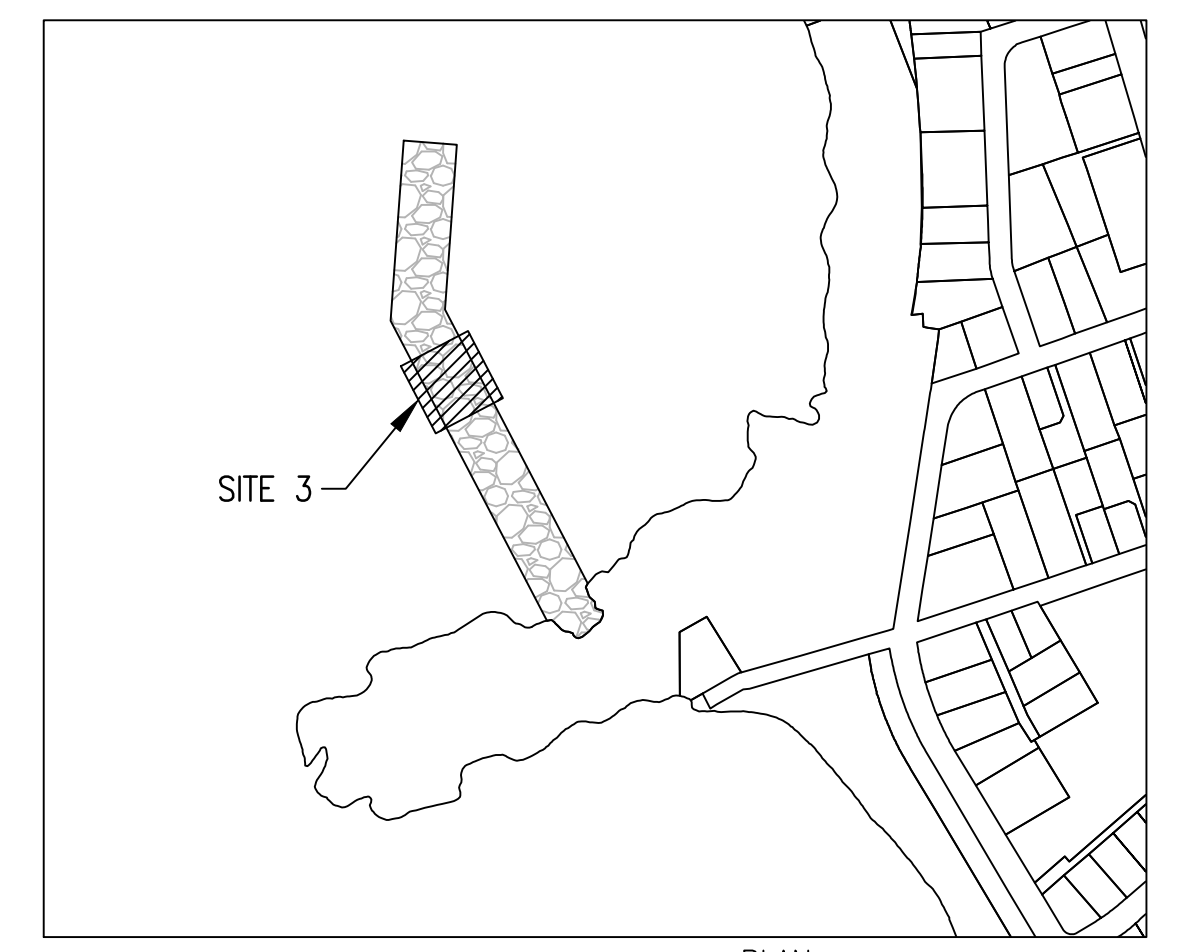
GRAPHIC SCALE:



REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES DIVISION OF BOATING AND OCEAN RECREATION					
POKAI BAY JETTY WALL IMPROVEMENTS					
ENLARGED PROJECT LAYOUT SITE - 2					
DESIGNED: RM			SUBMITTED:		
DRAWN: NP, DA			DATE: 04/30/2026		
CHECKED: CN			SCALE: AS NOTED		
APPROVED:			DRAWING NO.		
SIGNATURE			C-013		
4/30/2026 EXP. DATE OF THE LICENSE			DATE		
CHIEF ENGINEER			DATE		



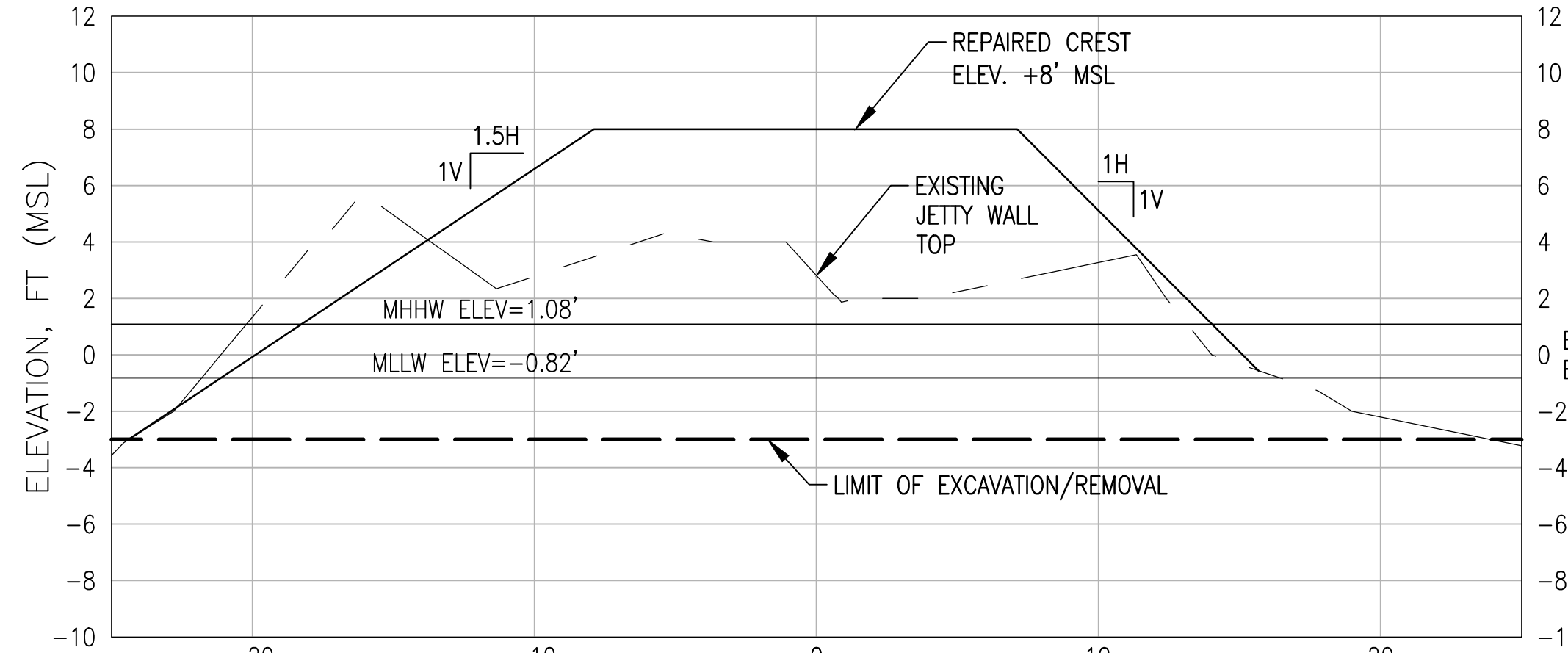
NOTE:
REPAIR WORK SHALL BE CONSTRUCTED TO PROVIDE A SMOOTH AND CONTINUOUS TRANSITION OF CREST ELEVATION, CREST WIDTH, AND SIDE SLOPES TO MATCH THE ADJACENT EXISTING BREAKWATER ON BOTH ENDS OF THE REPAIR(S). NO ABRUPT GRADE CHANGES SHALL OCCUR UNLESS OTHERWISE APPROVED BY THE ENGINEER.



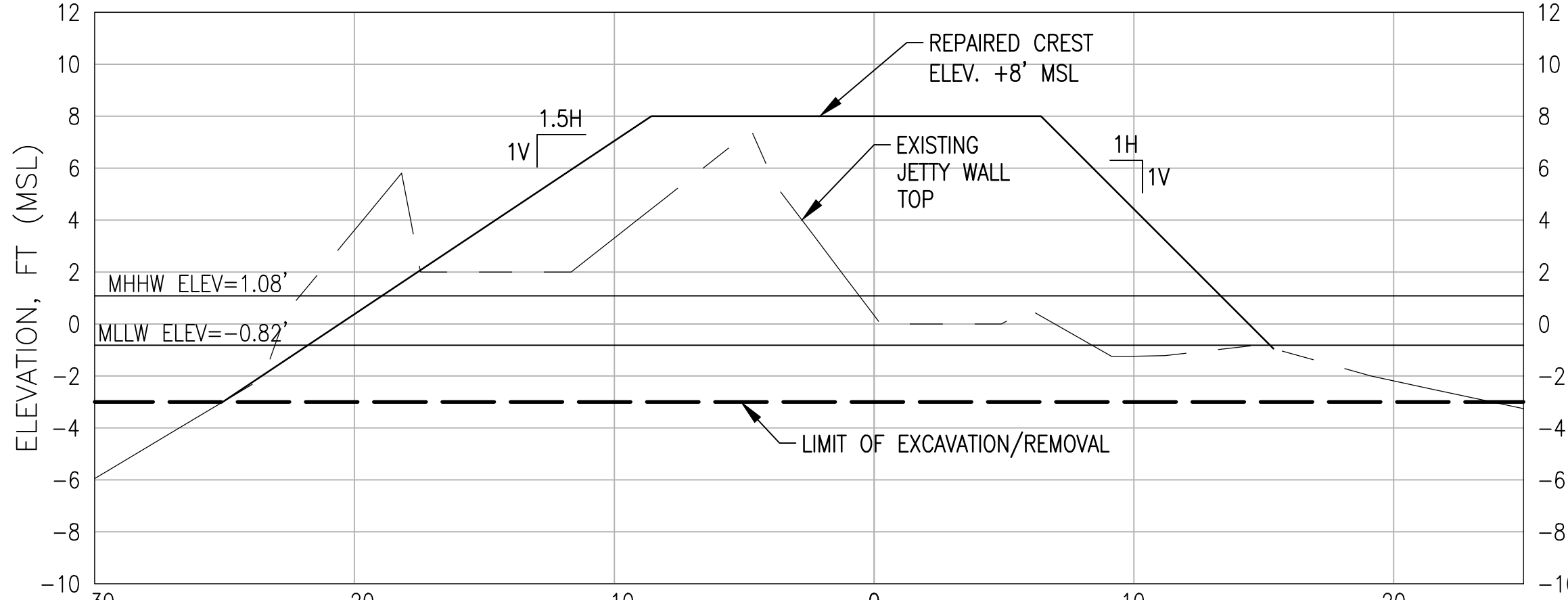
KEY PLAN
NOT TO SCALE



GROUND PHOTOGRAPH - SITE 3
APPROX. STA 5+25, LOOKING NORTH

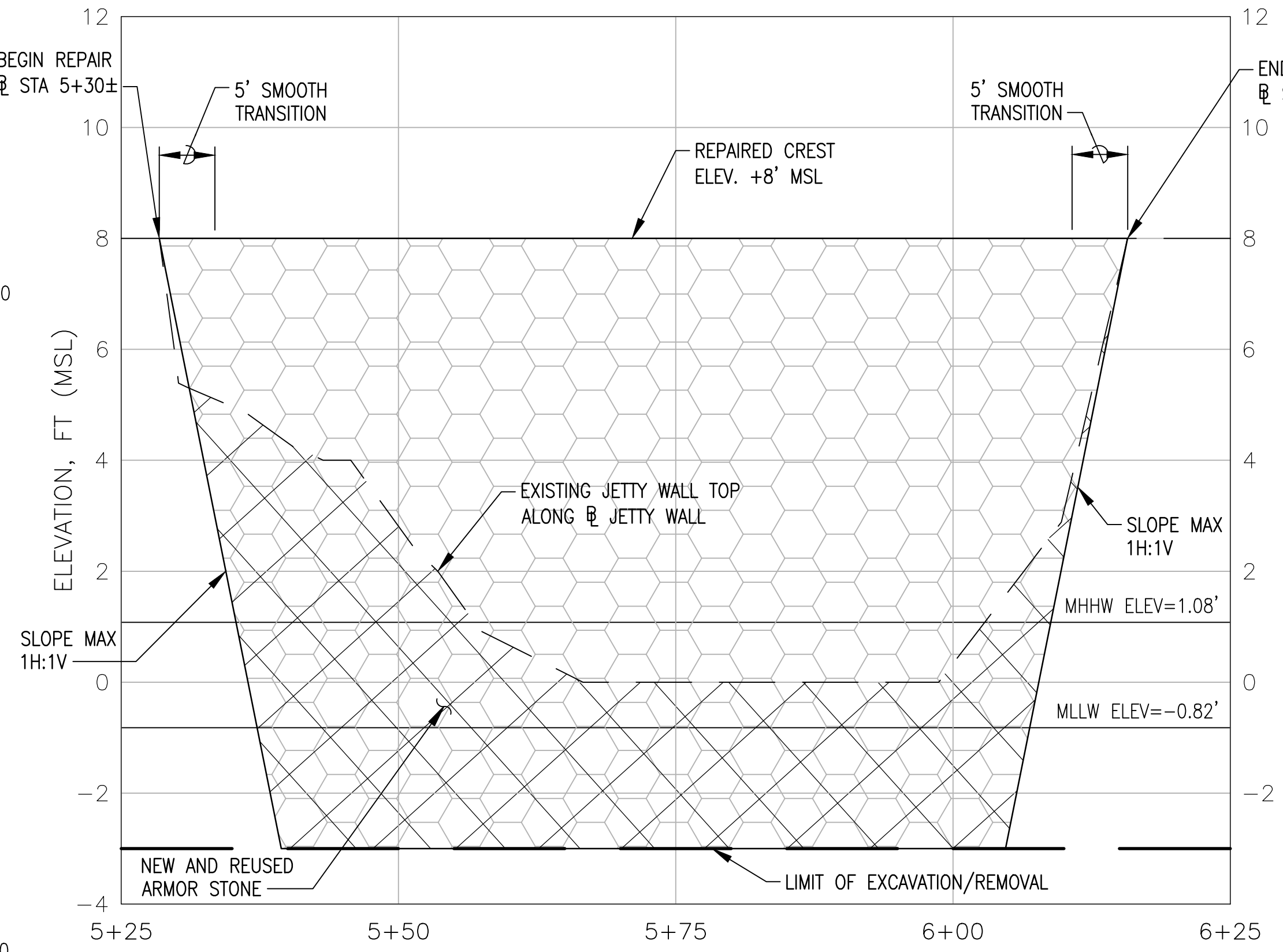


SITE 3 SECTION - STA 5+50
SCALES: HOR: 1" = 5'
VERT: 1" = 5'



SITE 3 SECTION - STA 6+00
SCALES: HOR: 1" = 5'
VERT: 1" = 5'

SITE 3 PLAN - STA 5+25 TO 6+25
SCALE: 1" = 10'



SITE 3 PROFILE - STA 5+25 TO 6+25
SCALES: HOR: 1" = 10'
VERT: 1" = 2'

LEGEND:

- EXISTING ROCK STRUCTURE
- APPROX EDGE OF JETTY WALL
- NEW AND REUSED ARMOR STONE
- JETTY WALL REPAIR/REMOVAL
- LIMIT OF DISTURBANCE

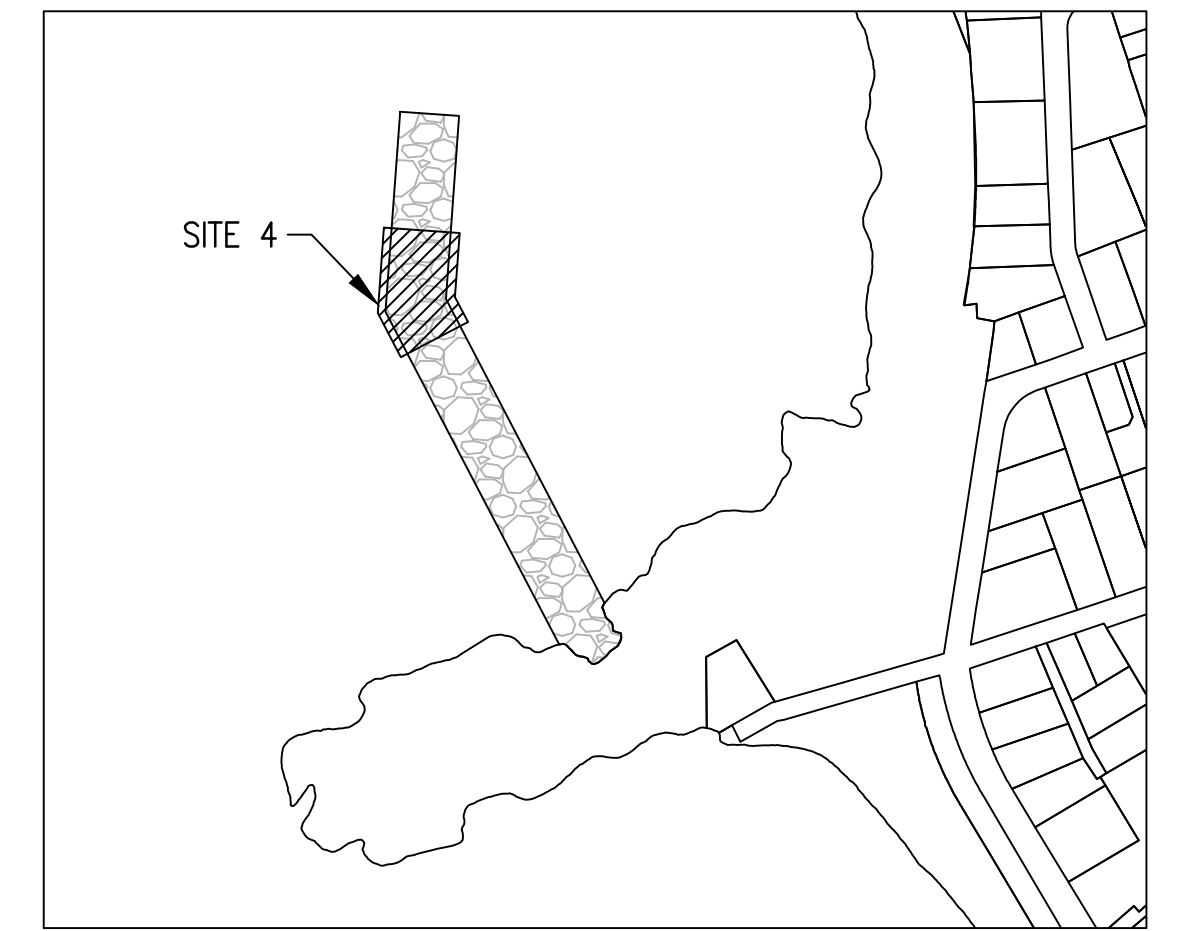
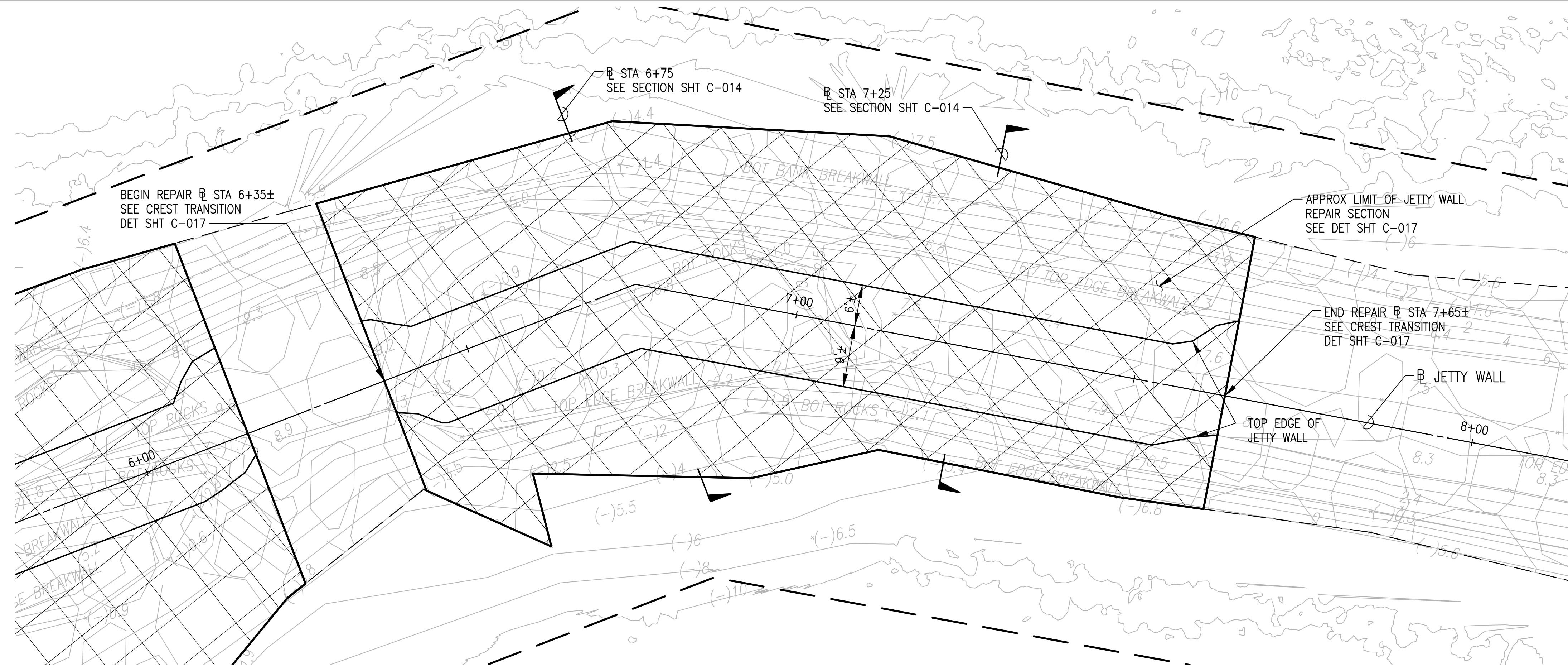
GRAPHIC SCALE:

10' 5' 0' 10' 20'
SCALE: 1" = 10'

2' 1' 0' 2' 4'
SCALE: 1" = 2'

5' 2.5' 0' 5' 10'
SCALE: 1" = 5'

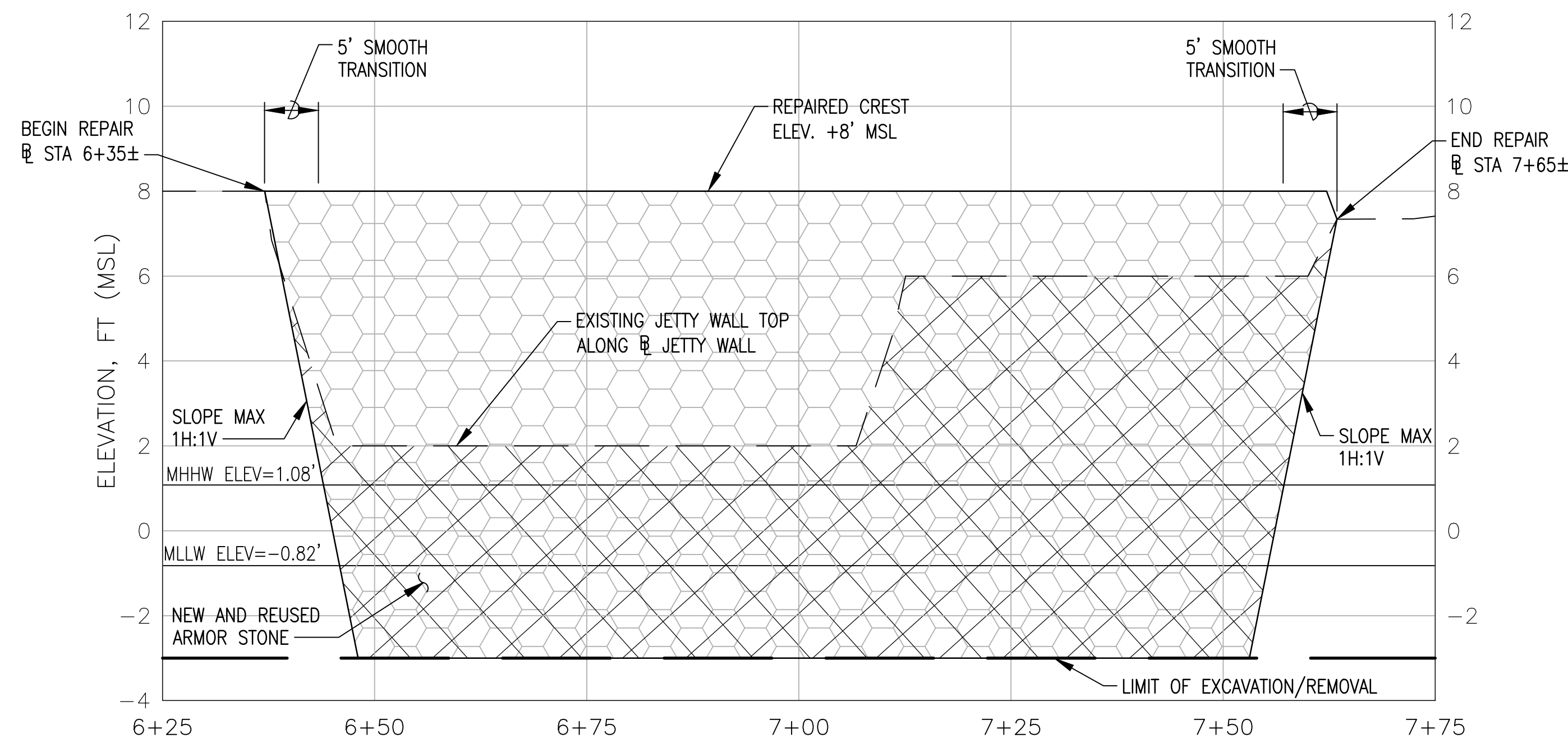
REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES DIVISION OF BOATING AND OCEAN RECREATION					
POKAI BAY JETTY WALL IMPROVEMENTS					
ENLARGED PROJECT LAYOUT SITE - 3					
DESIGNED: RM			SUBMITTED:		
DRAWN: NP, DA			DATE: 04/30/2026		
CHECKED: CN			SCALE: AS NOTED		
APPROVED:			DRAWING NO.		
SIGNATURE:			DATE: _____		
CHIEF ENGINEER			C-014		



KEY PLAN
NOT TO SCALE

NOTE:
REPAIR WORK SHALL BE CONSTRUCTED TO PROVIDE A SMOOTH AND CONTINUOUS TRANSITION OF CREST ELEVATION, CREST WIDTH, AND SIDE SLOPES TO MATCH THE ADJACENT EXISTING BREAKWATER ON BOTH ENDS OF THE REPAIR(S). NO ABRUPT GRADE CHANGES SHALL OCCUR UNLESS OTHERWISE APPROVED BY THE ENGINEER.

SITE 4 PLAN - @ STA 6+25 TO 7+75
SCALE: 1" = 10'

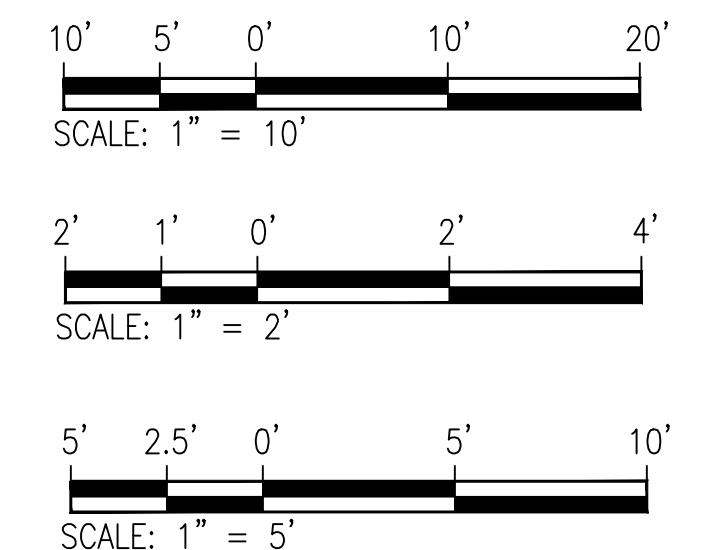


SITE 4 PROFILE - @ STA 6+25 TO 7+75
SCALES: HOR: 1" = 10'
VERT: 1" = 2'

LEGEND:

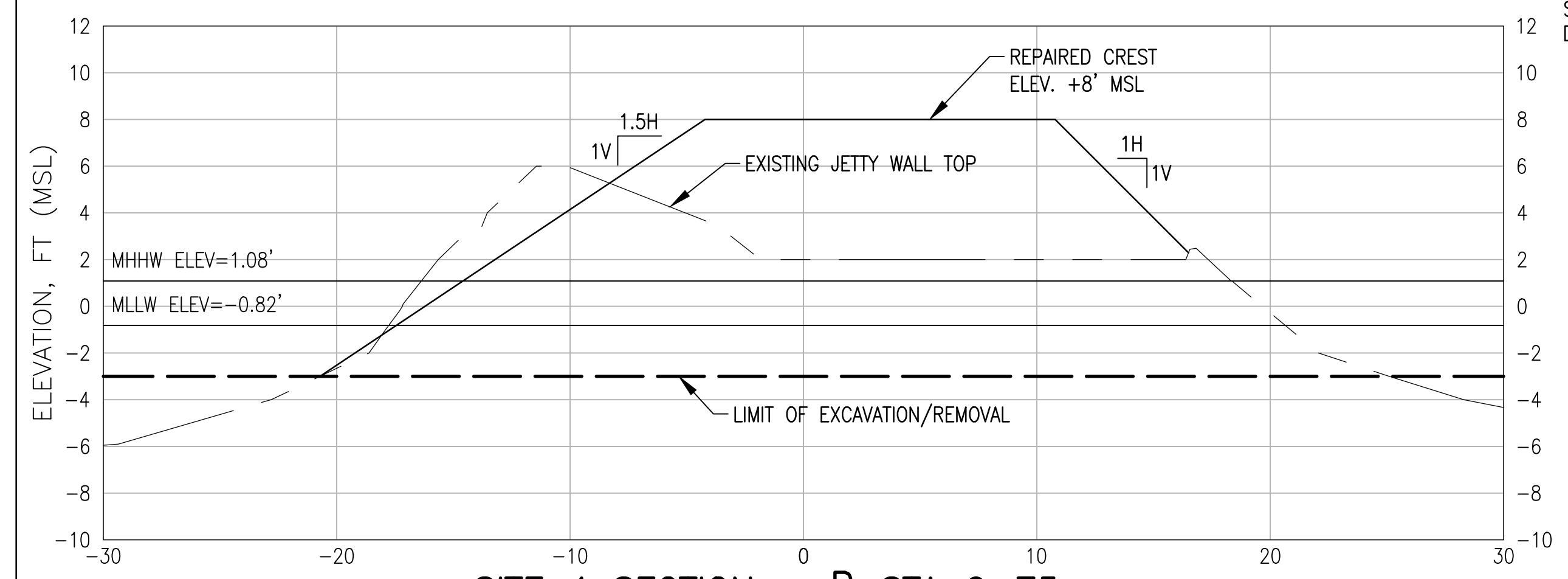
- EXISTING ROCK STRUCTURE
- APPROX EDGE OF JETTY WALL
- NEW AND REUSED ARMOR STONE
- JETTY WALL REPAIR/REMOVAL
- LIMIT OF DISTURBANCE

GRAPHIC SCALE:

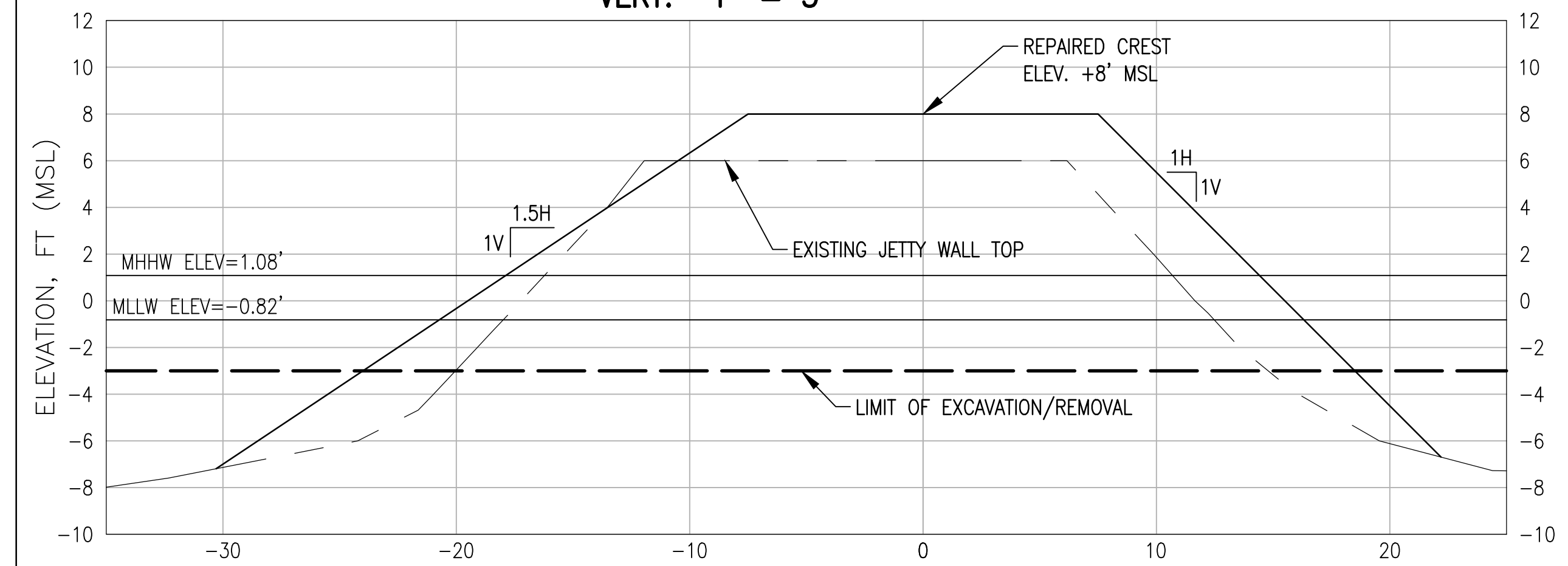


REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES DIVISION OF BOATING AND OCEAN RECREATION					
POKAI BAY JETTY WALL IMPROVEMENTS					
ENLARGED PROJECT LAYOUT SITE - 4					
			DESIGNED: RM DRAWN: NP, DA CHECKED: CN APPROVED: _____ CHIEF ENGINEER		
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. 4/30/2026 EXP. DATE OF THE LICENSE			SUBMITTED: _____ DATE: 04/30/2026 SCALE: AS NOTED DRAWING NO. C-015		

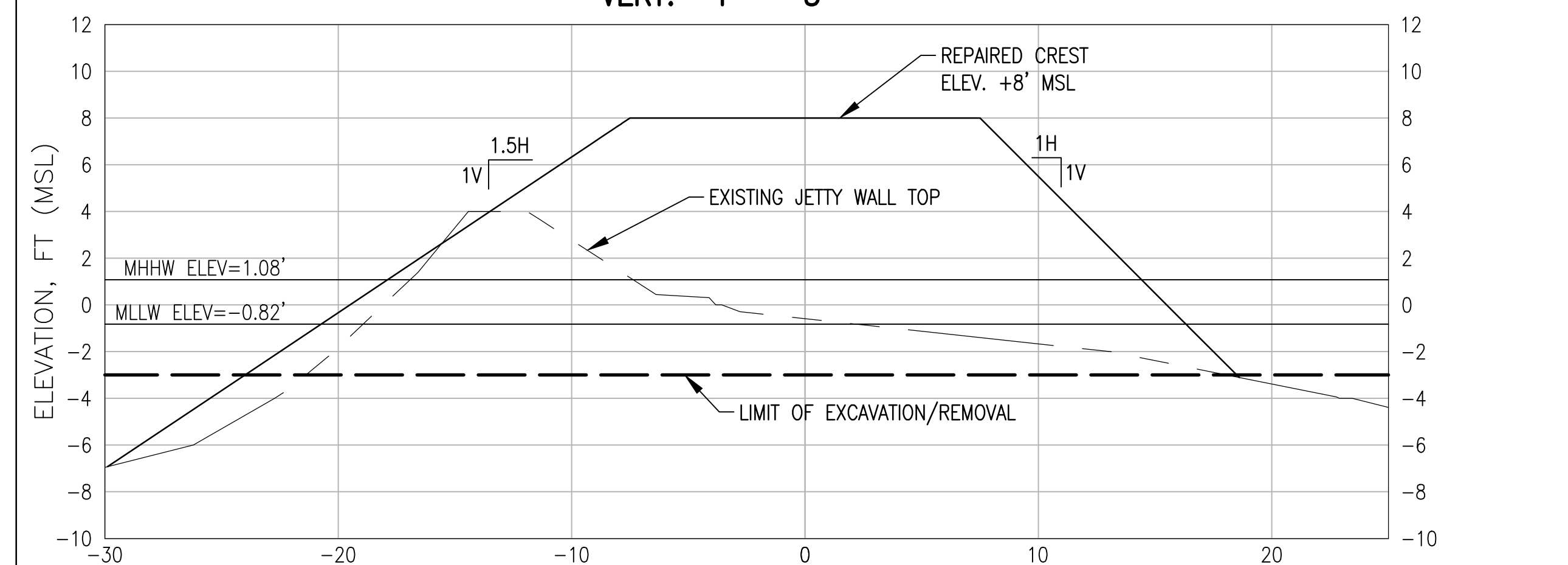
NOTE:
REPAIR WORK SHALL BE CONSTRUCTED TO PROVIDE A SMOOTH AND CONTINUOUS TRANSITION OF CREST ELEVATION, CREST WIDTH, AND SIDE SLOPES TO MATCH THE ADJACENT EXISTING BREAKWATER ON BOTH ENDS OF THE REPAIR(S). NO ABRUPT GRADE CHANGES SHALL OCCUR UNLESS OTHERWISE APPROVED BY THE ENGINEER.



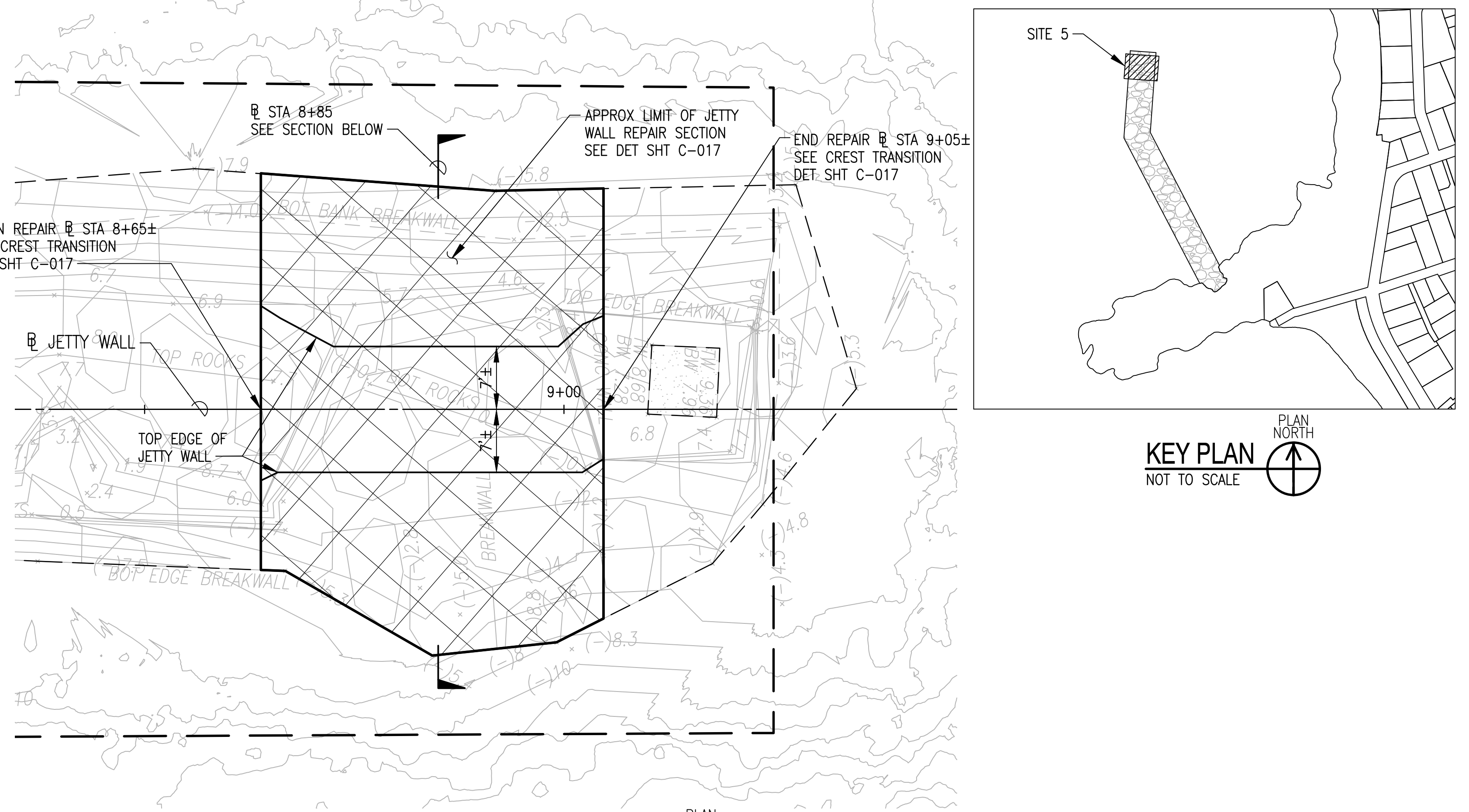
SITE 4 SECTION - STA 6+75
SCALES: HOR: 1" = 5'
VERT: 1" = 5'



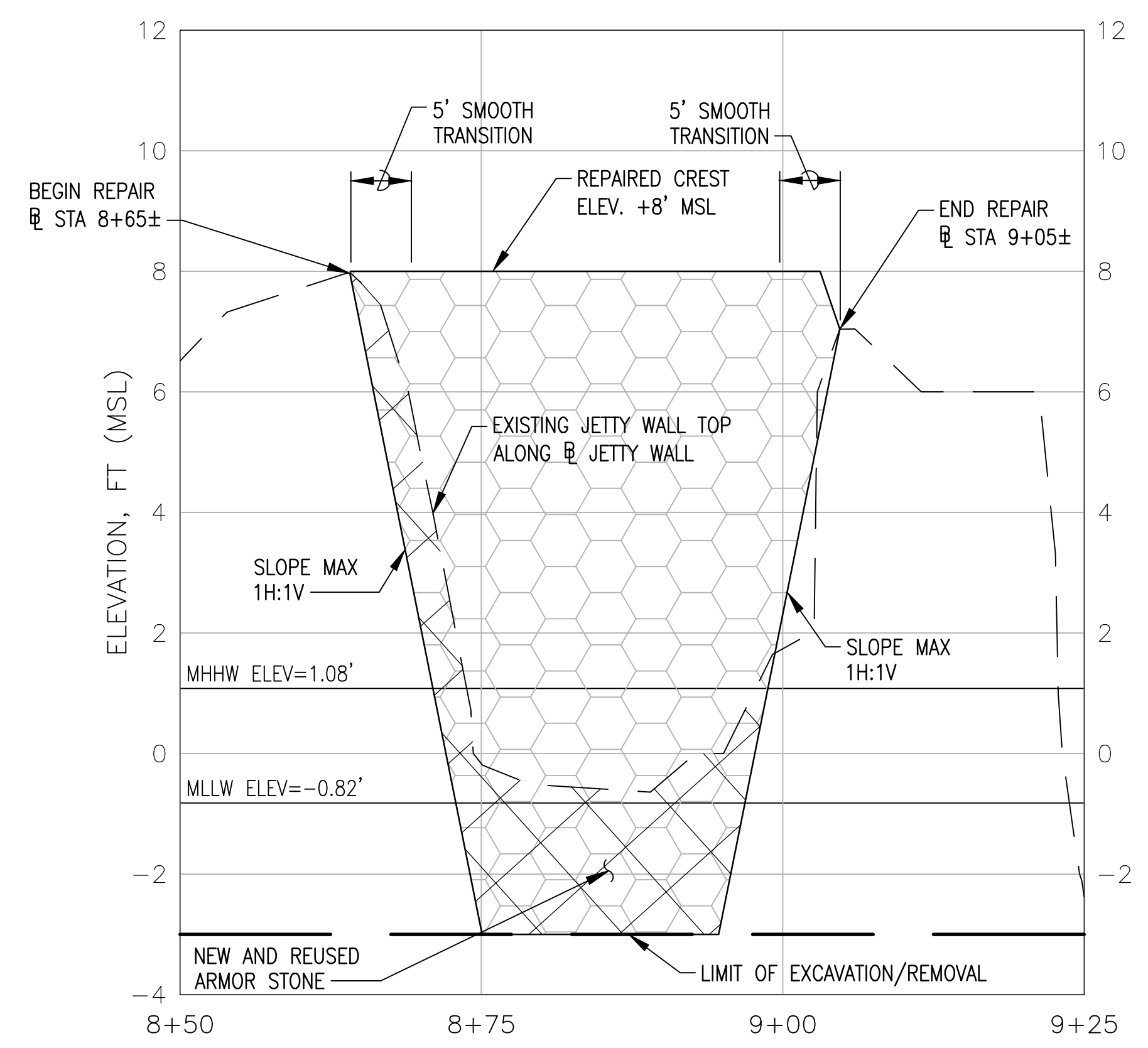
SITE 4 SECTION - STA 7+25
SCALES: HOR: 1" = 5'
VERT: 1" = 5'



SITE 5 SECTION - STA 8+85
SCALES: HOR: 1" = 5'
VERT: 1" = 5'



SITE 5 PLAN - STA 8+50 TO 9+25
SCALE: 1" = 10'



SITE 5 PROFILE - STA 8+50 TO 9+25
SCALES: HOR: 1" = 10'
VERT: 1" = 2'

LEGEND:

- EXISTING ROCK STRUCTURE
- APPROX EDGE OF JETTY WALL
- NEW AND REUSED ARMOR STONE
- JETTY WALL REPAIR/REMOVAL
- LIMIT OF DISTURBANCE

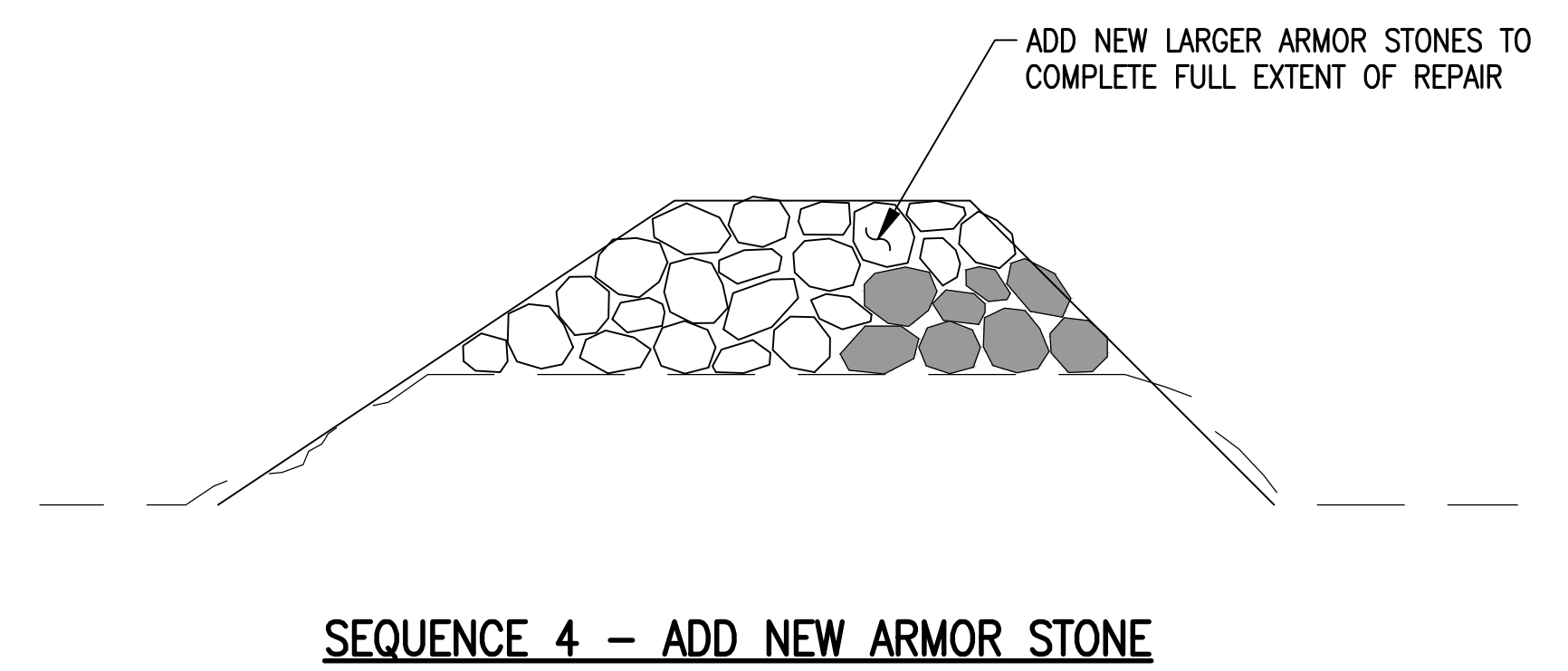
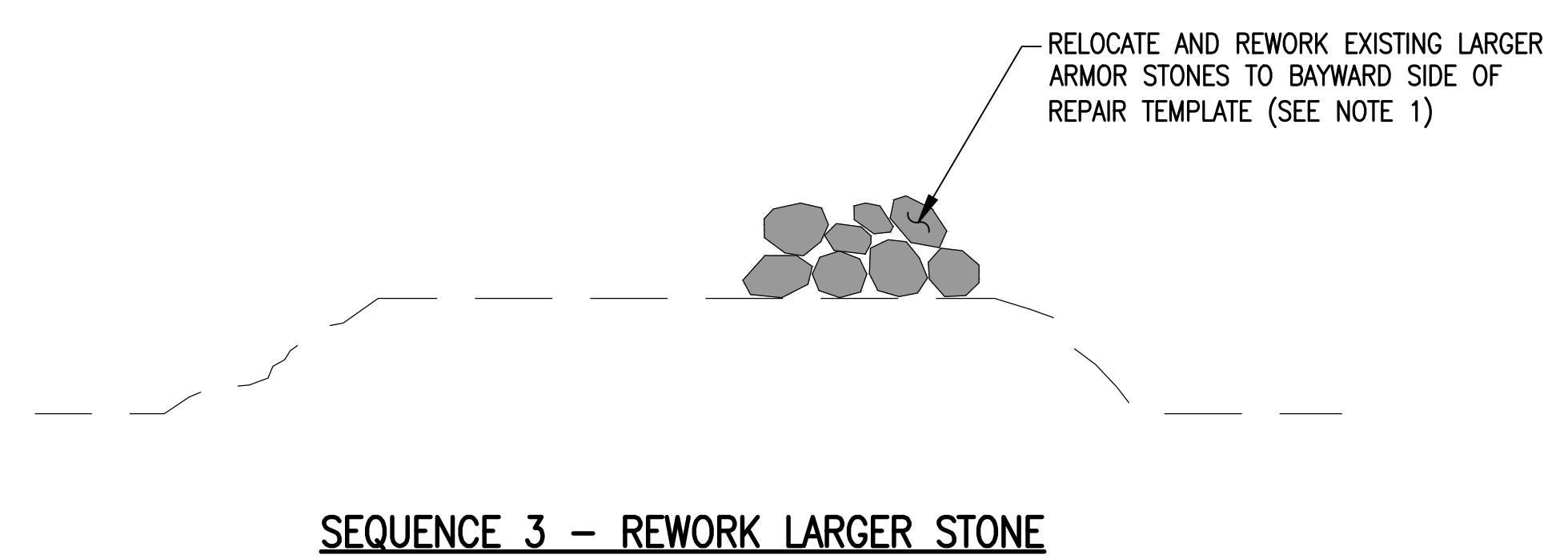
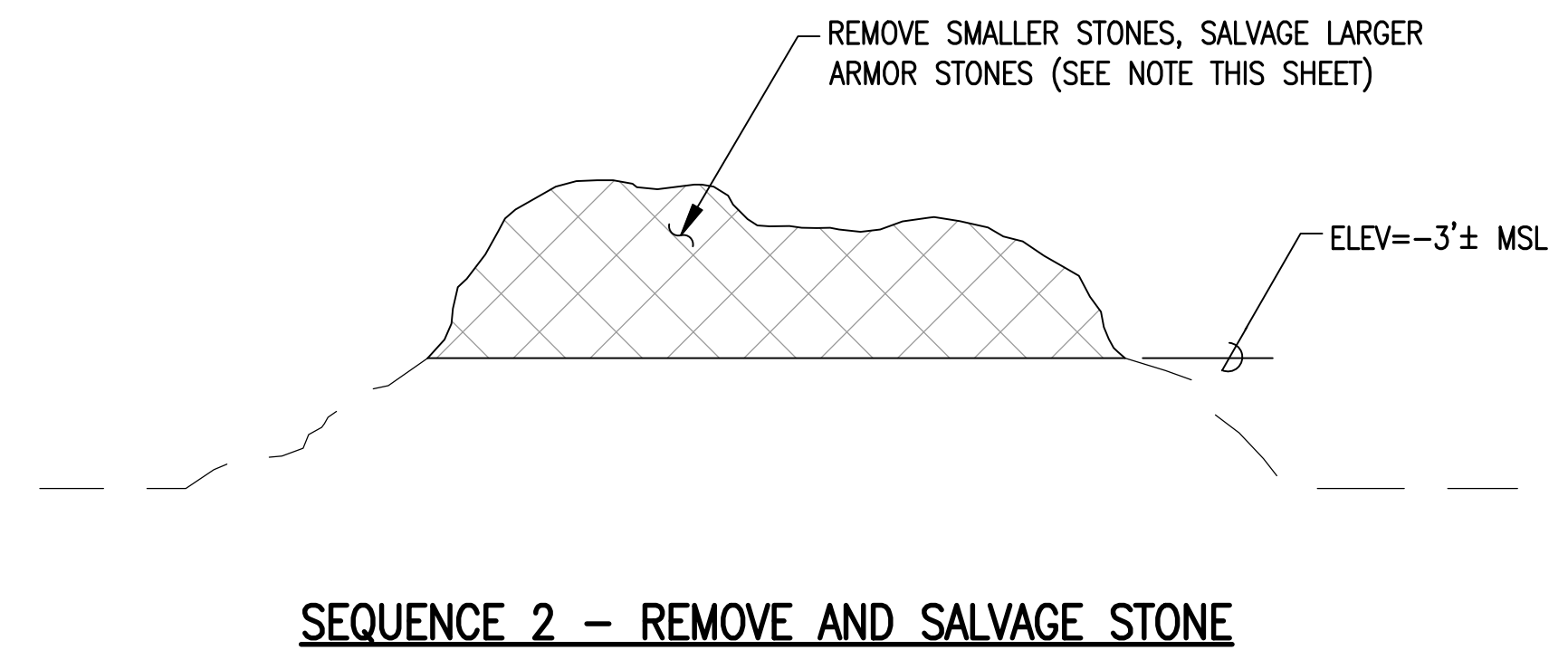
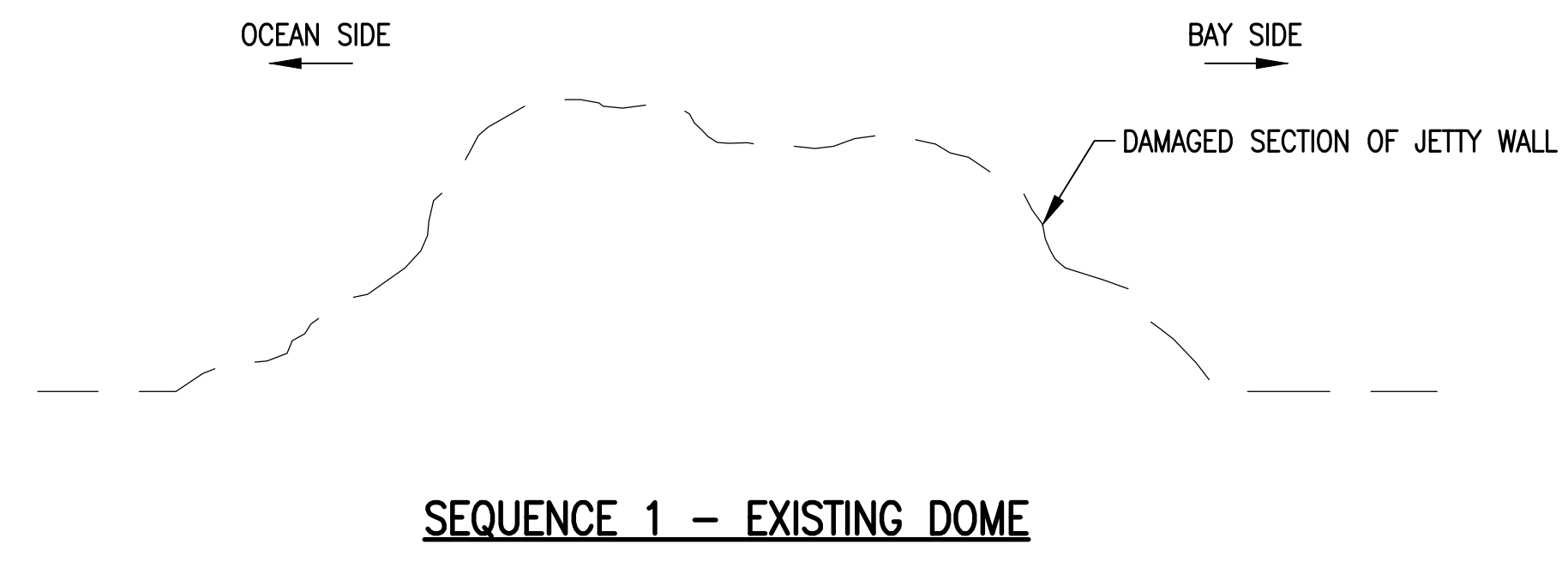
GRAPHIC SCALE:

10' 5' 0' 10' 20'
SCALE: 1" = 10'

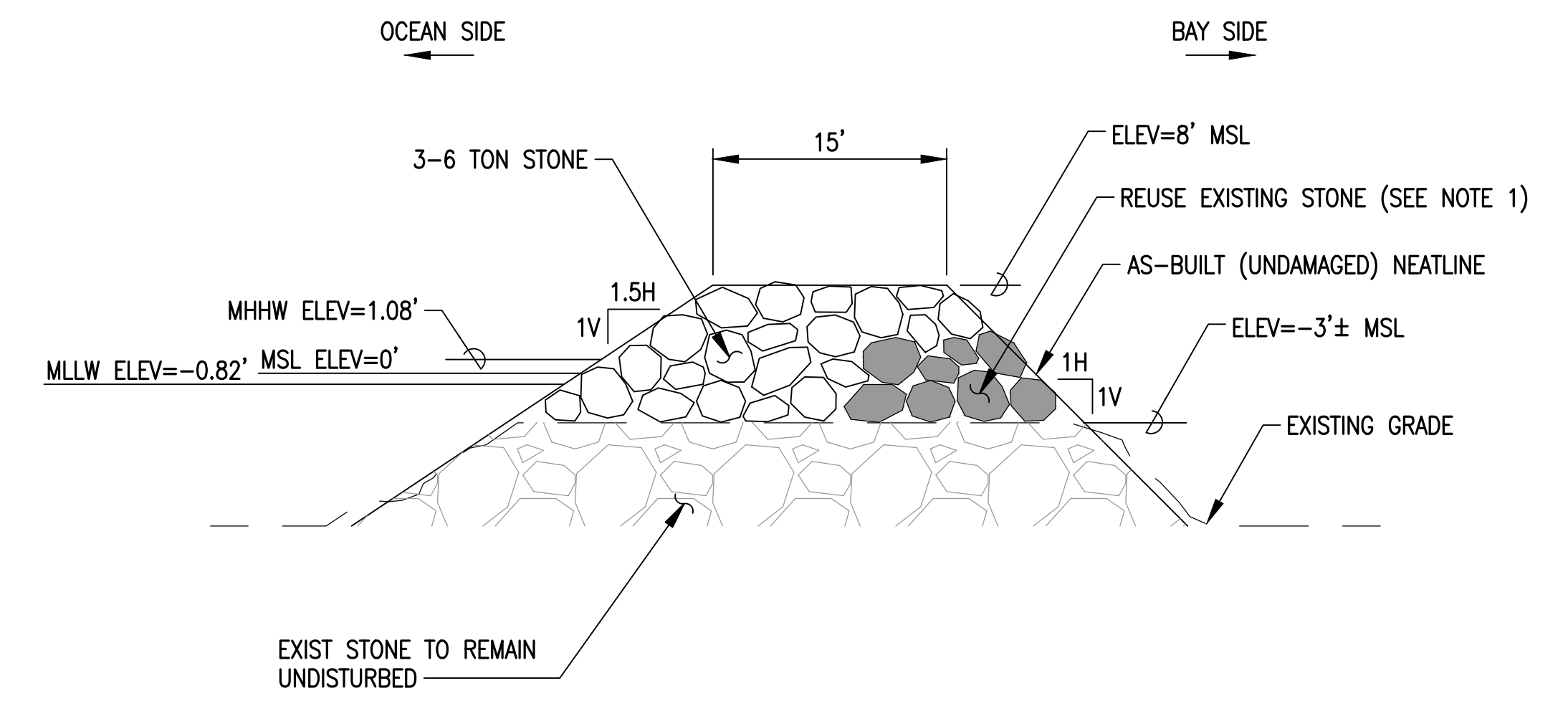
2' 1' 0' 2'
SCALE: 1" = 2'

5' 2.5' 0' 5' 10'
SCALE: 1" = 5'

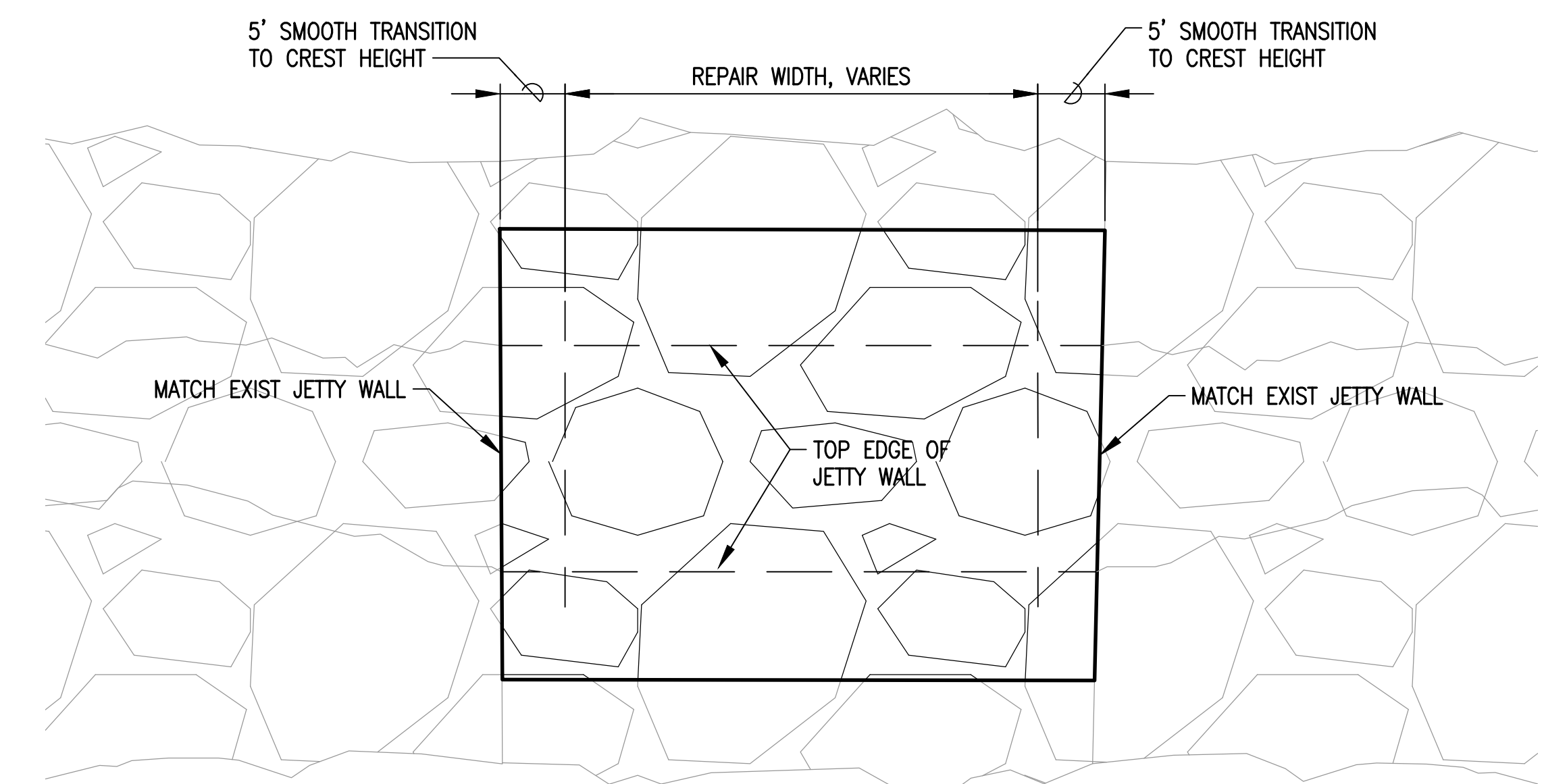
REVISION NO.	SYM.	DESCRIPTION	SHT. OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES DIVISION OF BOATING AND OCEAN RECREATION					
POKAI BAY JETTY WALL IMPROVEMENTS					
ENLARGED PROJECT LAYOUT SITE - 5					
DESIGNED: RM			SUBMITTED:		
DRAWN: NP, DA			DATE: 04/30/2026		
CHECKED: CN			SCALE: AS NOTED		
APPROVED:			DRAWING NO.		
SIGNATURE:			DATE: _____		
CHIEF ENGINEER			C-016		



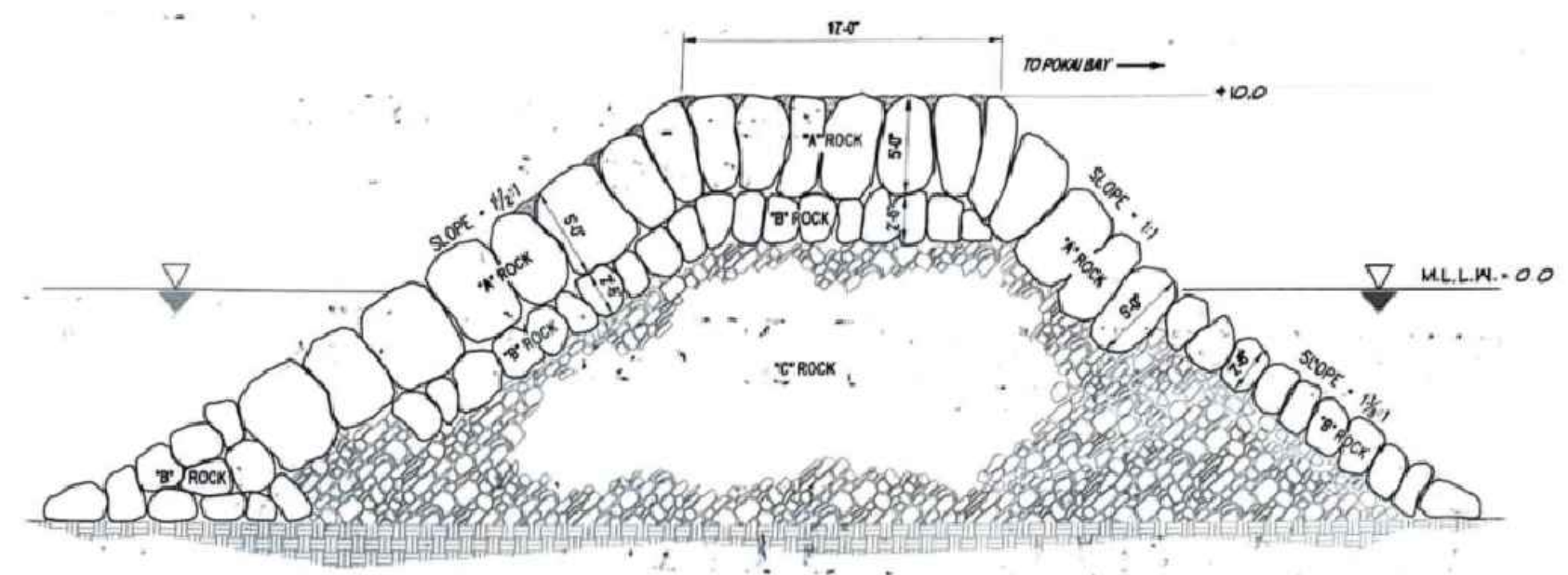
JETTY WALL REPAIR SEQUENCE
NOT TO SCALE



JETTY WALL REPAIR TYPICAL SECTION
NOT TO SCALE



CREST TRANSITION
NOT TO SCALE



Classification of Breakwater Rocks		
Class	Description	Size
A	Facing & Cap Rock	3 to 4 tons & larger
B	Secondary Facing Rock	1 to 3 tons
C	Core Rock	50 lbs. to 1 ton
Stones	Filler Rock	3 lbs. to 100 lbs.

AS-BUILT JETTY WALL SECTION - FOR REFERENCE ONLY
NOT TO SCALE

NOTES:

- EXISTING STONE WITHIN DAMAGED AREA WITH A MINIMUM DIMENSION GREATER THAN APPROXIMATELY 2' MAY BE REUSED AND REWORKED INTO REPAIR. REUSED STONE SHALL BE PLACED ON THE LEeward (BAYWARD) SIDE OF REPAIR.
- EXISTING STONE WITHIN DAMAGED AREA THAT IS TOO LARGE TO BE MOVED PRACTICALLY SHALL BE KEPT IN PLACE WITH NEW AND REUSED ARMOR STONE ARRANGED TO HAVE AT LEAST THREE POINTS OF CONTACT.
- REFER TO SPECIFICATION 02274 JETTY WALL FOR TOTAL TOLERANCES FOR LINES AND GRADES OF JETTY WALL REPAIRS.

NOTE:

THE AS-BUILT SECTION SHOWN MAY NOT MATCH FIELD CONDITIONS AND IS FOR INFORMATION PURPOSES ONLY. NO REFERENCE DATUM WAS PROVIDED IN THE AS-BUILT DRAWING SHOWN AND ELEVATION INFORMATION SHOWN FOR THE TOP OF THE JETTY DOES NOT MATCH THE TOPOGRAPHIC SURVEY PERFORMED FOR THIS PROJECT

REVISION NO.	SYM.	DESCRIPTION	SHT. OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES DIVISION OF BOATING AND OCEAN RECREATION					
POKAI BAY JETTY WALL IMPROVEMENTS					
TYPICAL SECTION AND DETAILS					
DESIGNED: RM			SUBMITTED:		
DRAWN: NP, DA			DATE: 04/30/2026		
CHECKED: CN			SCALE: AS NOTED		
APPROVED:			DRAWING NO.		
SIGNATURE			DATE		
CHIEF ENGINEER			C-017		