STATE OF HAWAII

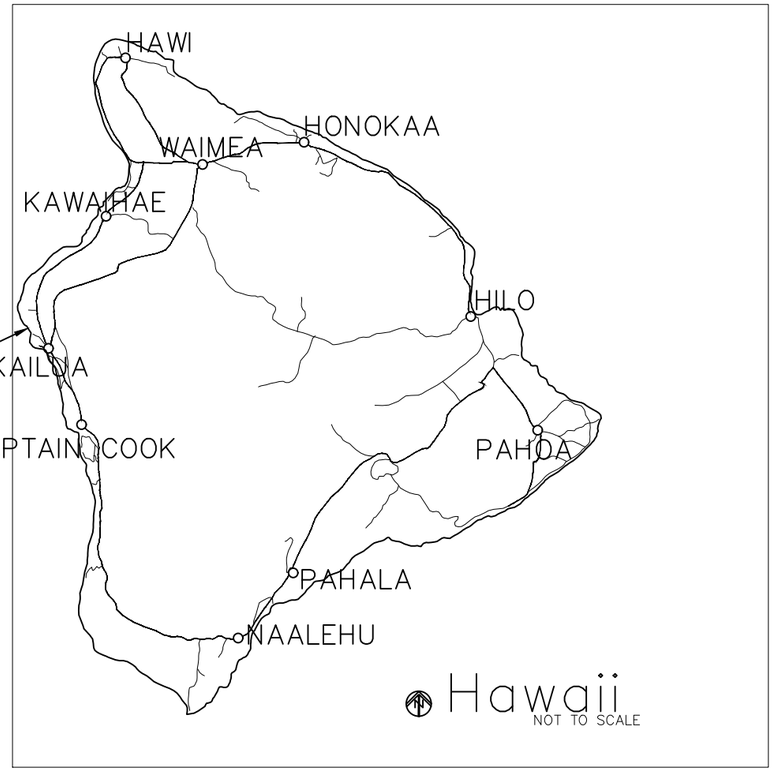
DEPARTMENT OF LAND AND NATURAL RESOURCES

DIVISION OF BOATING AND OCEAN RECREATION

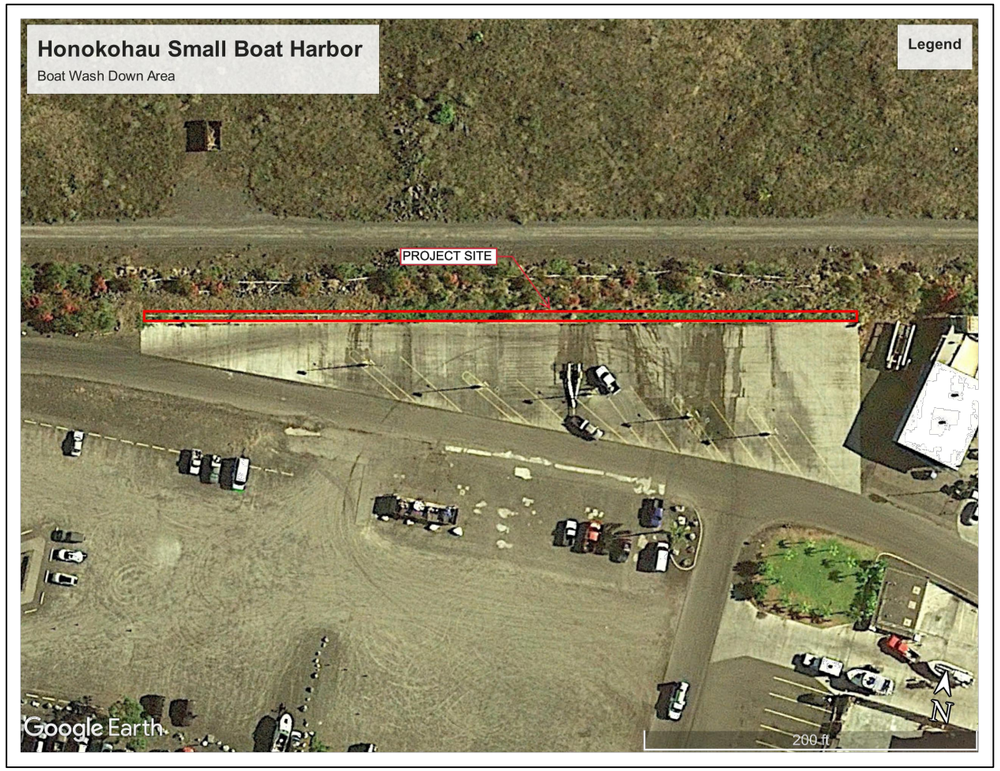
JOB NO. HA22-06

HONOKOHAU SMALL BOAT HARBOR BOAT WASH DOWN DRAINAGE IMPROVEMENTS

KAILUA-KONA, ISLAND OF HAWAII, HAWAII



LOCATION MAP
(NOT TO SCALE)



VICINITY MAP
(NOT TO SCALE)

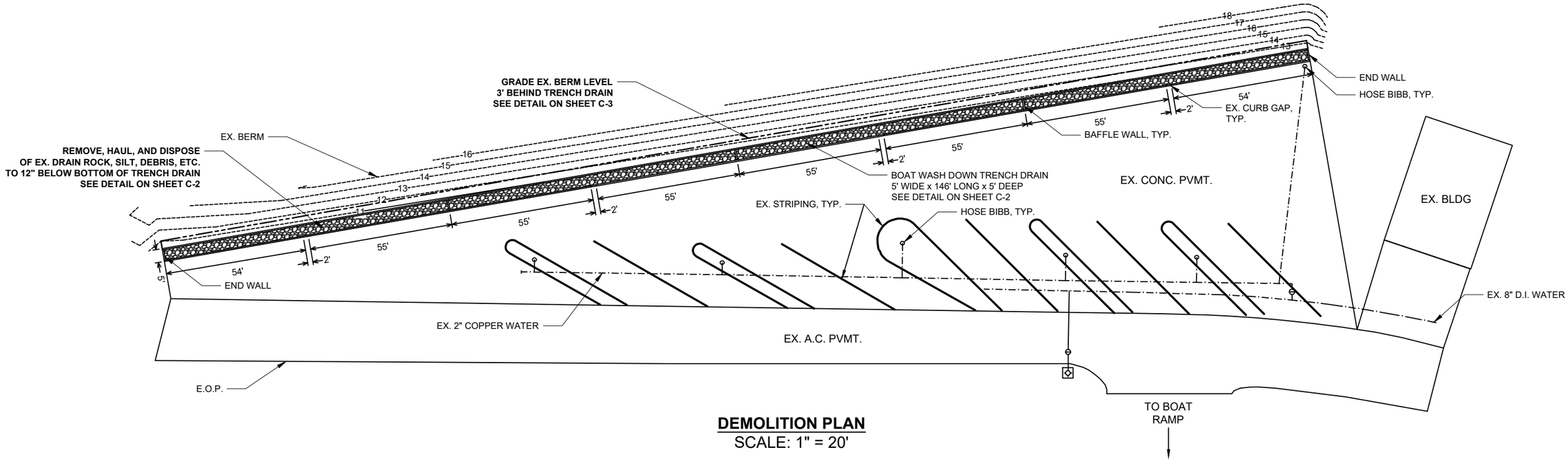
DRAWING INDEX		
DRAWING NO.	SHEET NO.	DESCRIPTION
T-1	1	TITLE SHEET
C-1	2	DEMOLITION PLAN
C-2	3	SITE PLAN & PRV DETAILS
C-3	4	DETAILS & PHOTOS

APPROVED:

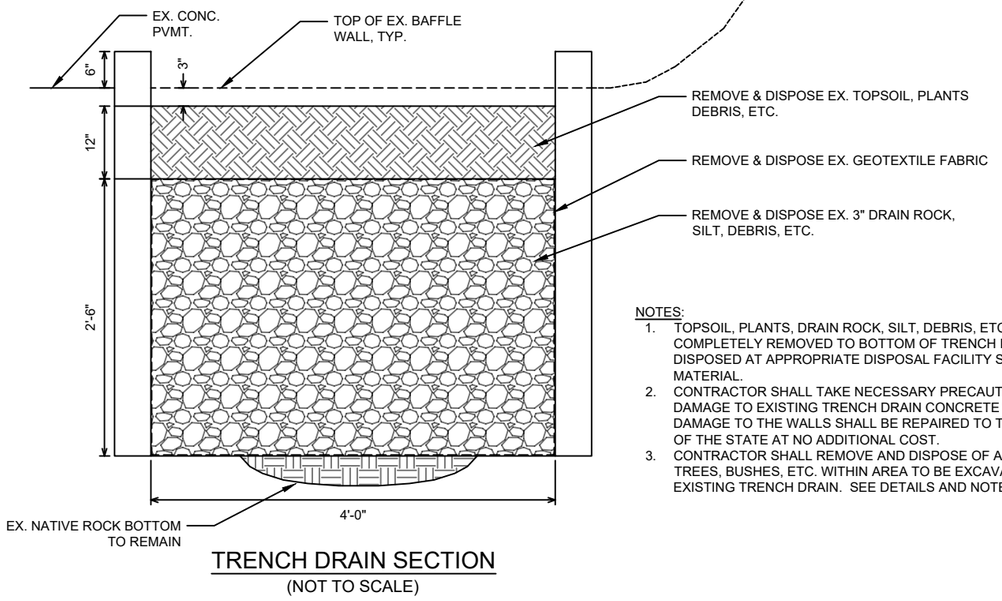
DATE: Sep 1, 2022

EDWARD R. UNDERWOOD
ADMINISTRATOR
DIVISION OF BOATING AND OCEAN RECREATION
DEPARTMENT OF LAND AND NATURAL RESOURCES

DRAWING NO.
T-1



DEMOLITION PLAN
SCALE: 1" = 20'



TRENCH DRAIN SECTION
(NOT TO SCALE)

NOTES:
1. TOPSOIL, PLANTS, DRAIN ROCK, SILT, DEBRIS, ETC. SHALL BE COMPLETELY REMOVED TO BOTTOM OF TRENCH DRAIN AND DISPOSED AT APPROPRIATE DISPOSAL FACILITY SUITABLE FOR SUCH MATERIAL.
2. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO AVOID DAMAGE TO EXISTING TRENCH DRAIN CONCRETE WALLS. ANY DAMAGE TO THE WALLS SHALL BE REPAIRED TO THE SATISFACTION OF THE STATE AT NO ADDITIONAL COST.
3. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL NATIVE SOIL, TREES, BUSHES, ETC. WITHIN AREA TO BE EXCAVATED BEHIND EXISTING TRENCH DRAIN. SEE DETAILS AND NOTES ON SHEET C-3.

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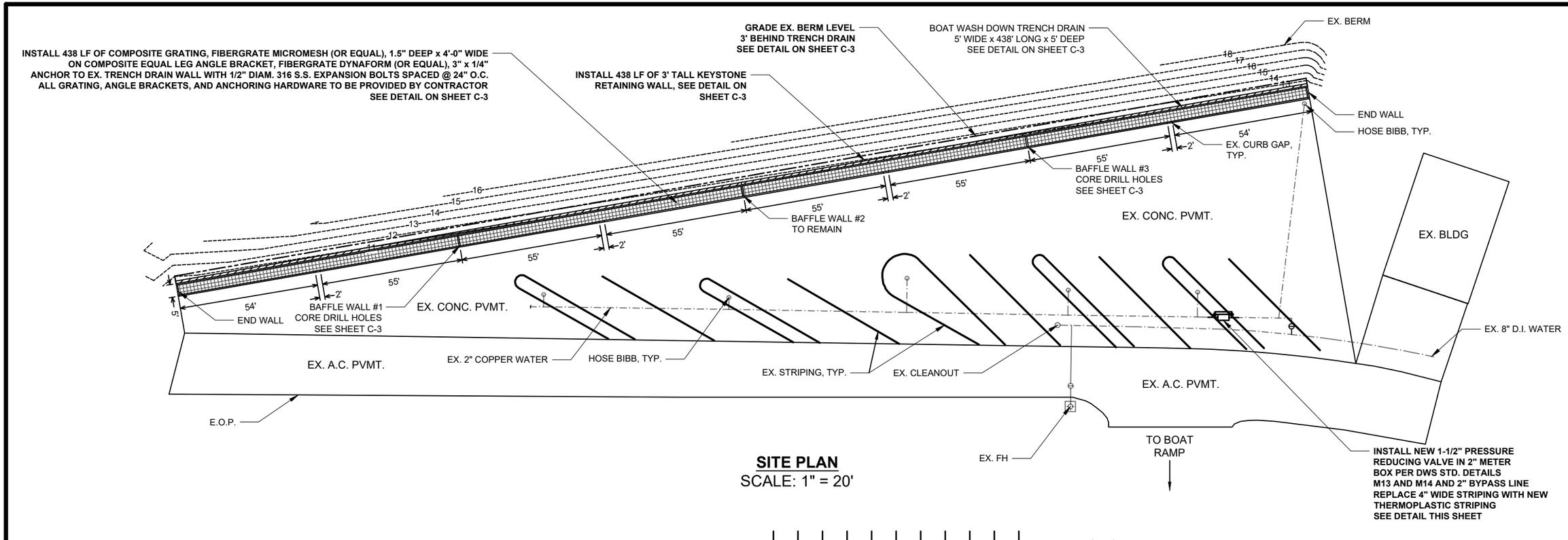
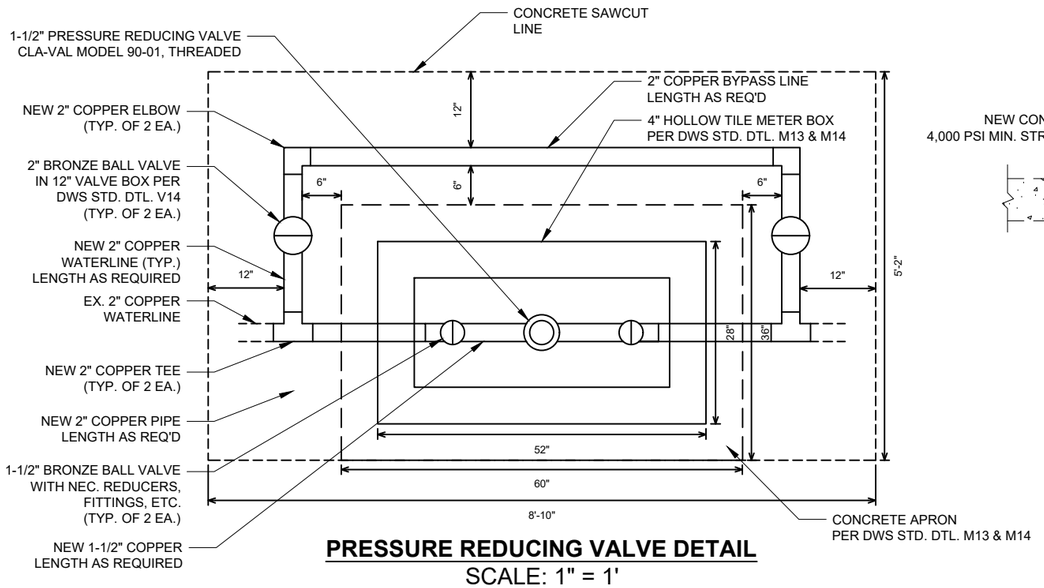
HONOKOHAU SBH BOAT WASH DOWN
DRAINAGE IMPROVEMENTS

DEMOLITION PLAN

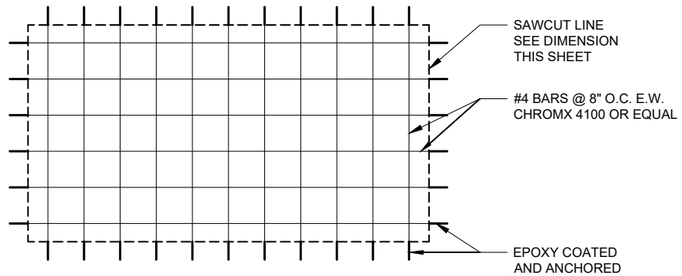
DESIGNED:	SUBMITTED:
DRAWN:	DATE: 9/1/22
CHECKED:	SCALE:
APPROVED:	DRAWING NO. C-1



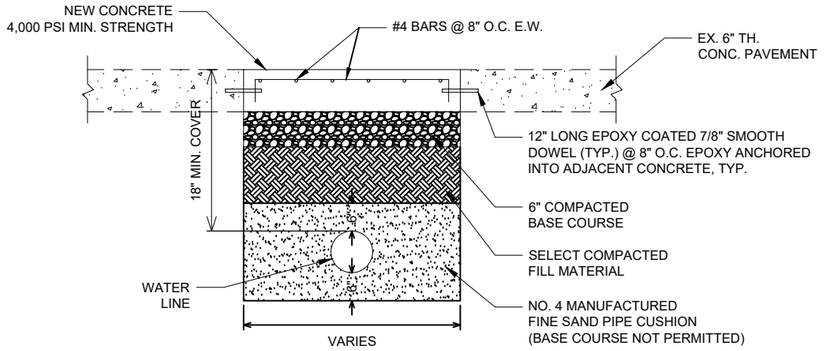
SITE PLAN
SCALE: 1" = 20'



PRESSURE REDUCING VALVE DETAIL
SCALE: 1" = 1'



PLAN VIEW



SECTION VIEW

PAVEMENT REPAIR DETAIL
(NOT TO SCALE)

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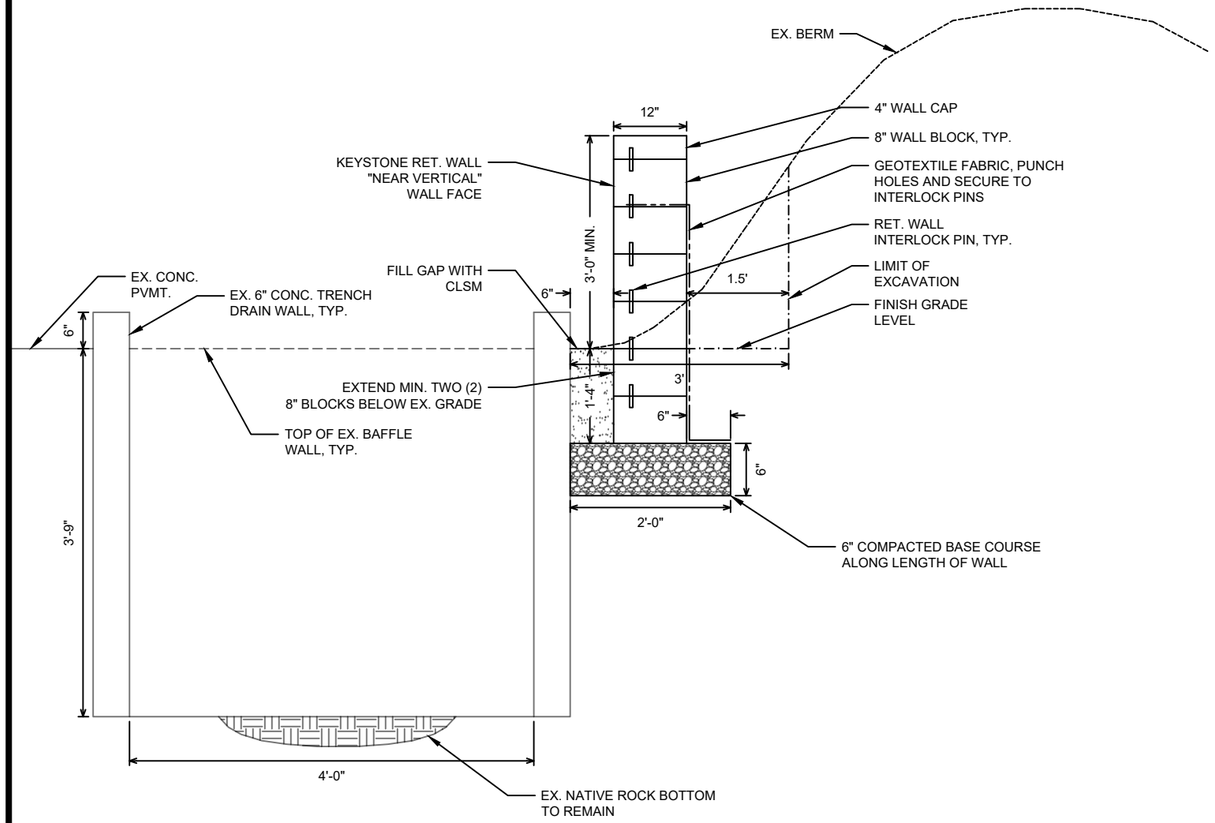
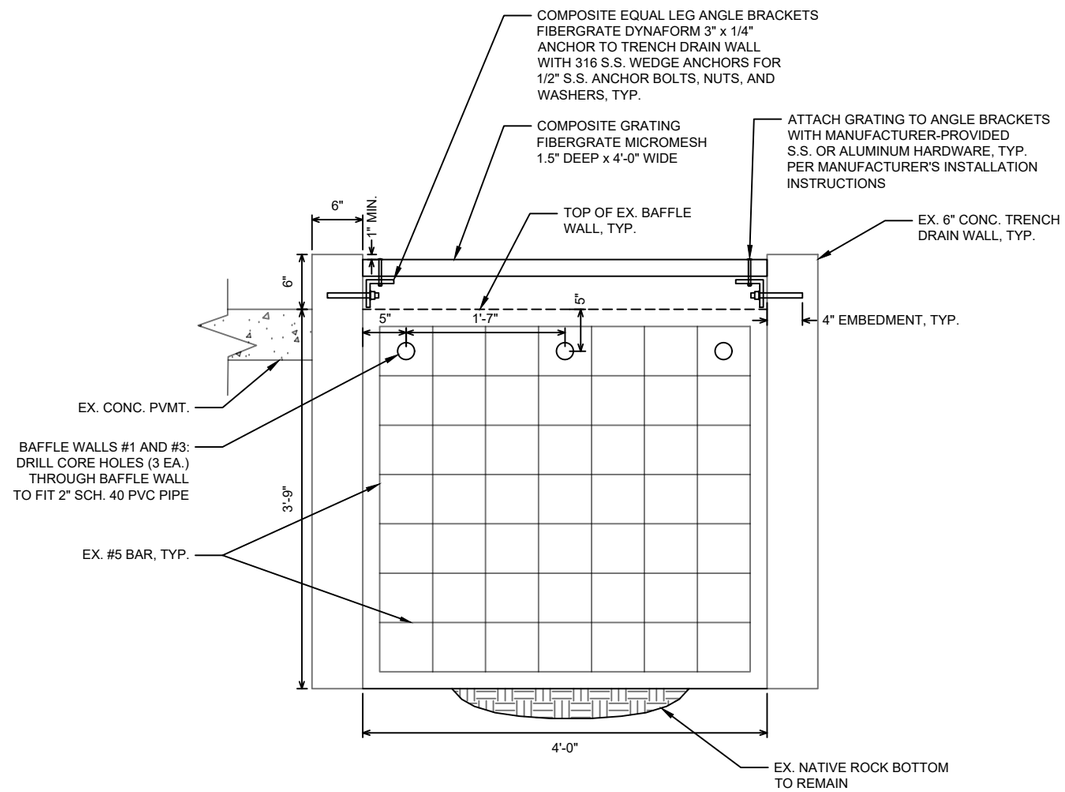
HONOKOHAU SBH BOAT WASH DOWN DRAINAGE IMPROVEMENTS

SITE PLAN & PRV DETAILS

DESIGNED:	SUBMITTED:
DRAWN:	DATE: 9/1/22
CHECKED:	SCALE:
APPROVED:	DRAWING NO. C-2



RETAINING WALL SECTION
(NOT TO SCALE)



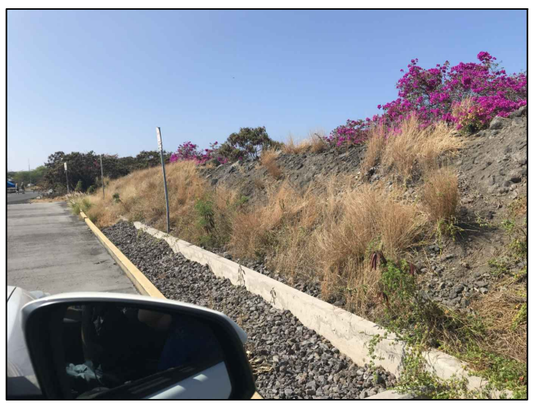
TRENCH DRAIN BAFFLE CORING & GRATING DETAIL
(NOT TO SCALE)

RETAINING WALL NOTES:

1. BERM MATERIAL REMOVED FROM EXCAVATED AREA BEHIND RETAINING WALL SHALL BE REMOVED FROM THE SITE AND DISPOSED AT AN APPROPRIATE DISPOSAL SITE.
2. RETAINING WALL SHALL BE KEYSTONE COMPAC III TRIPLANE UNIT WITH 8" BLOCKS AND 4" WALL CAP OR APPROVED EQUAL. CMU RETAINING WALLS ARE NOT PERMITTED.
3. FOLLOW RETAINING WALL MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION AND WALL CONNECTIONS.
4. GEOTEXTILE FABRIC SHALL BE MIRAFI 140N OR APPROVED EQUAL.
5. BACKFILL BEHIND RETAINING WALL SHALL BE PLACED AND COMPACTED IN MIN. 8" LIFTS.

TRENCH DRAIN BAFFLE CORING & GRATING NOTES:

1. COMPOSITE GRATING SHALL BE FIBERGRATE MICROMESH, 1.5" DEEP x 4'-0" WIDE, OR APPROVED EQUAL.
2. COMPOSITE GRATING SUPPORT BRACKETS SHALL BE FIBERGRATE DYNAFORM EQUAL LEG ANGLE BRACKETS, 3" x 1/4", OR APPROVED EQUAL.
3. COMPOSITE GRATING AND ANGLE BRACKETS SHALL BE CUT TO FIT SUCH THAT THERE ARE NO GAPS GREATER THAN 1/2" BETWEEN GRATING AND TRENCH DRAIN WALLS.
4. CONTRACTOR SHALL FOLLOW GRATING MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION OF GRATING AND ANGLE BRACKETS, INCLUDING INSTALLATION OF ALL NECESSARY HARDWARE, CLIPS, ETC. FOR ATTACHING GRATING TO ANGLE BRACKETS.
5. ANGLE BRACKETS AND GRATING SHALL BE INSTALLED SUCH THAT THE MAXIMUM DEFLECTION OF GRATING AT THE MIDPOINT DOES NOT EXCEED 1/4".



PHOTOS
(NO SCALE)

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HONOKOHAU SBH BOAT WASH DOWN
DRAINAGE IMPROVEMENTS

DETAILS & PHOTOS

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