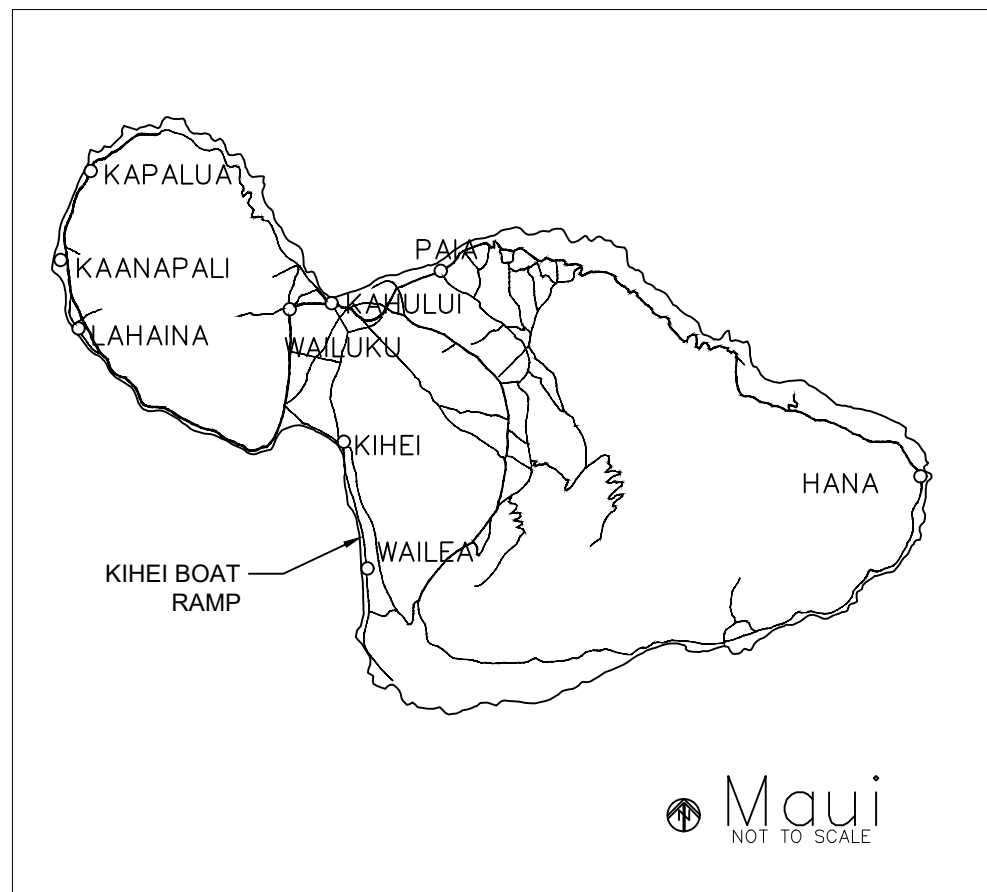


STATE OF HAWAII
 DEPARTMENT OF LAND AND NATURAL RESOURCES
 DIVISION OF BOATING AND OCEAN RECREATION
 JOB NO. MA22-03
**KIHEI BOAT RAMP BOAT WASH DOWN
 DRAINAGE IMPROVEMENTS**
 KIHEI, MAUI, HAWAII



LOCATION MAP
(NOT TO SCALE)



VICINITY MAP
(NOT TO SCALE)

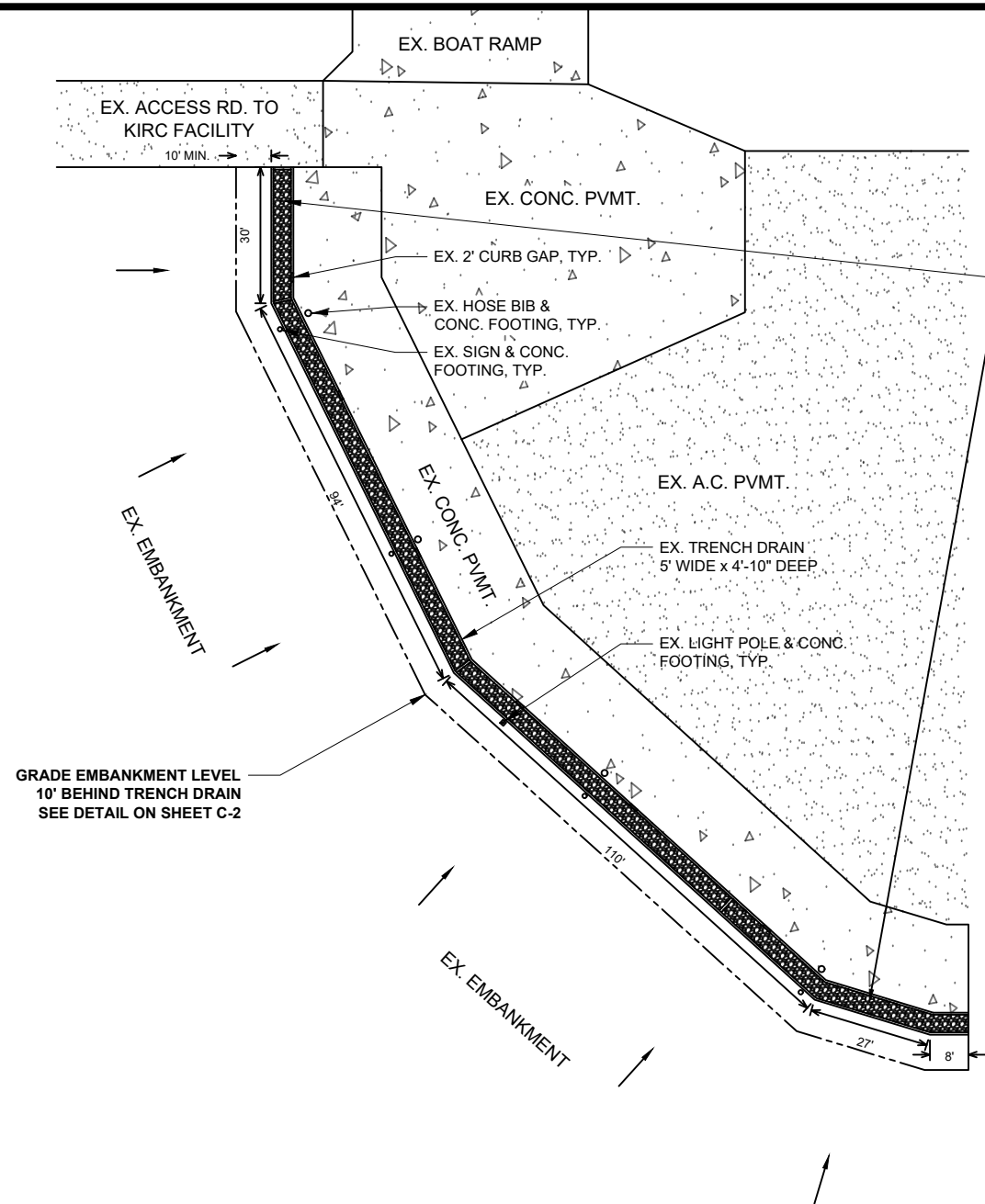
DRAWING INDEX		
DRAWING NO.	SHEET NO.	DESCRIPTION
T-1	1	TITLE SHEET
C-1	2	DEMO & SITE PLAN
C-2	3	DETAILS & PHOTOS

APPROVED:

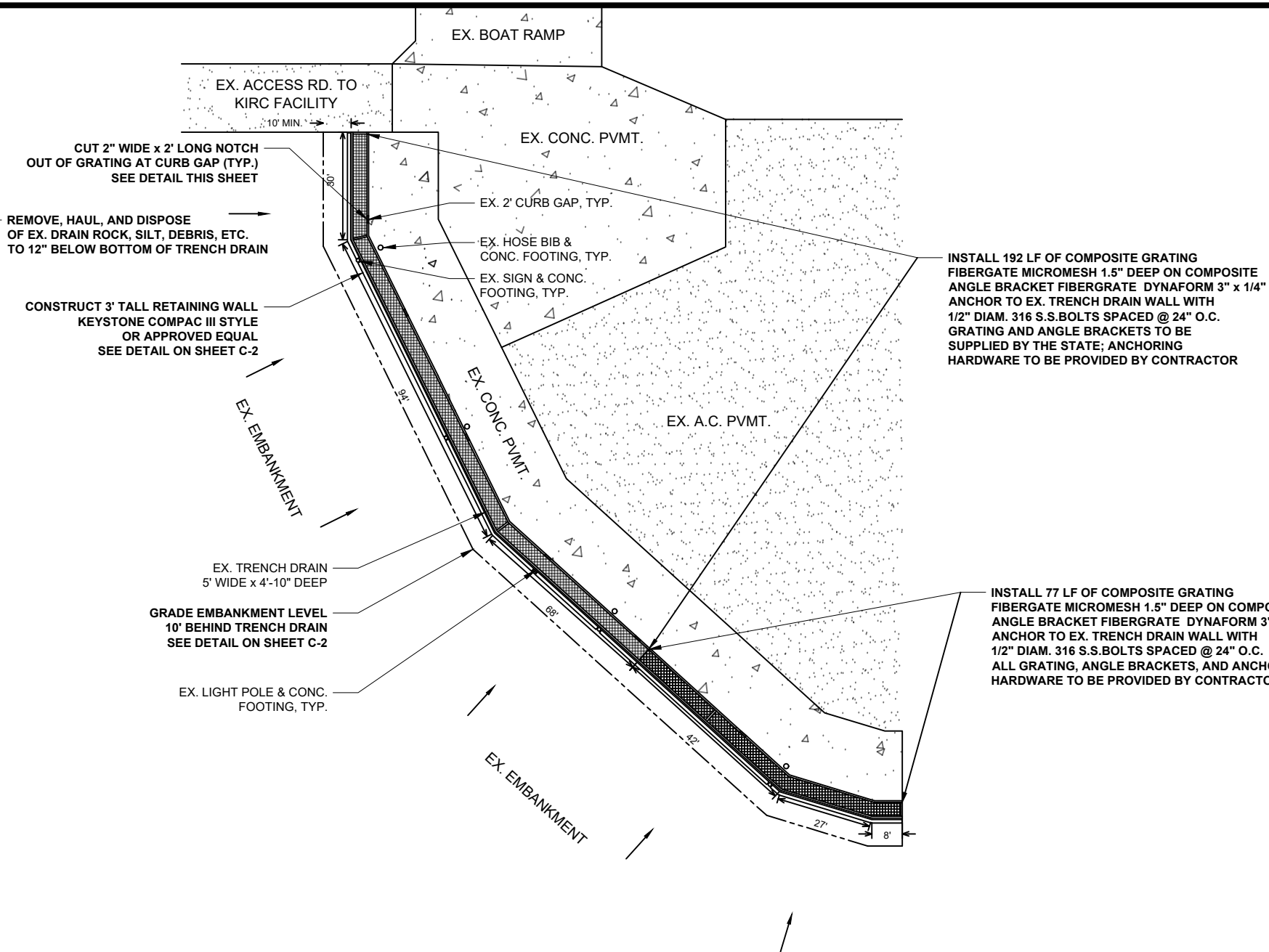
DATE: Jun 22, 2022

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

DRAWING NO.
T-1



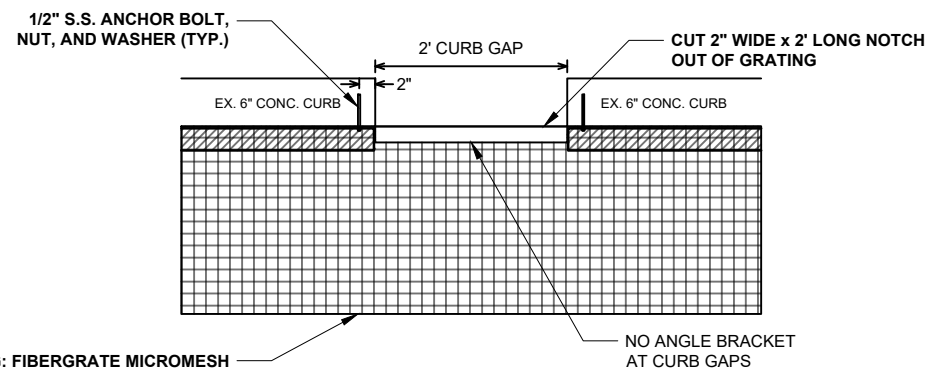
DEMOLITION PLAN
(NOT TO SCALE)



SITE PLAN
(NOT TO SCALE)

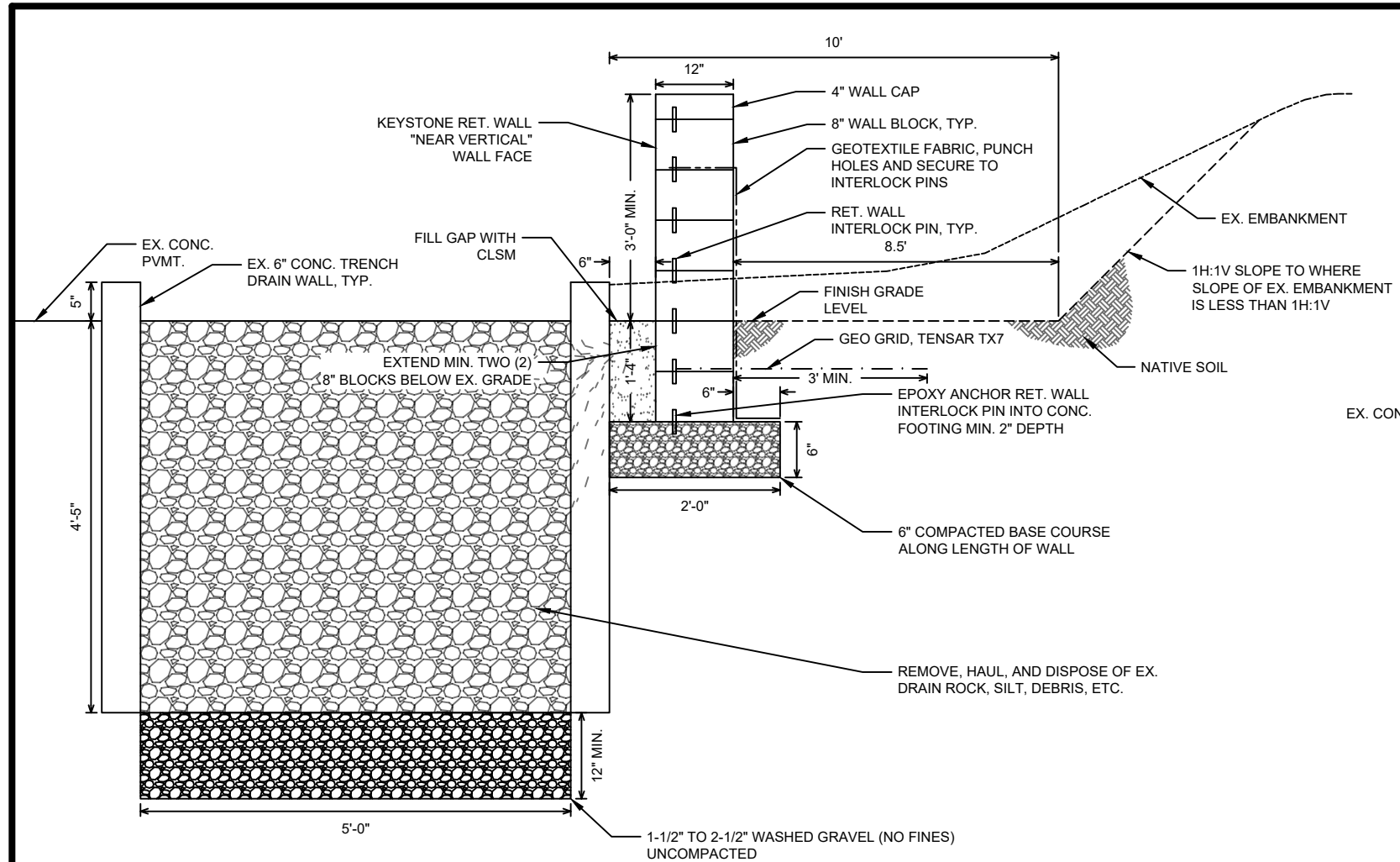
NOTES:

1. DRAIN ROCK, SILT, DEBRIS, PLANTS, ETC. SHALL BE COMPLETELY REMOVED TO 12" BELOW BOTTOM OF TRENCH DRAIN.
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 12" OF IN SITU MATERIAL FROM BOTTOM OF TRENCH DRAIN AND REPLACE WITH 12" OF UNCOMPACTED 1-1/2" - 2-1/2" WASHED ROCK (NO FINES).
4. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL NATIVE SOIL, TREES, BUSHES, ETC. WITHIN AREA TO BE GRADED BEHIND EXISTING TRENCH DRAIN. SEE DETAILS AND NOTES ON SHEET C-2.

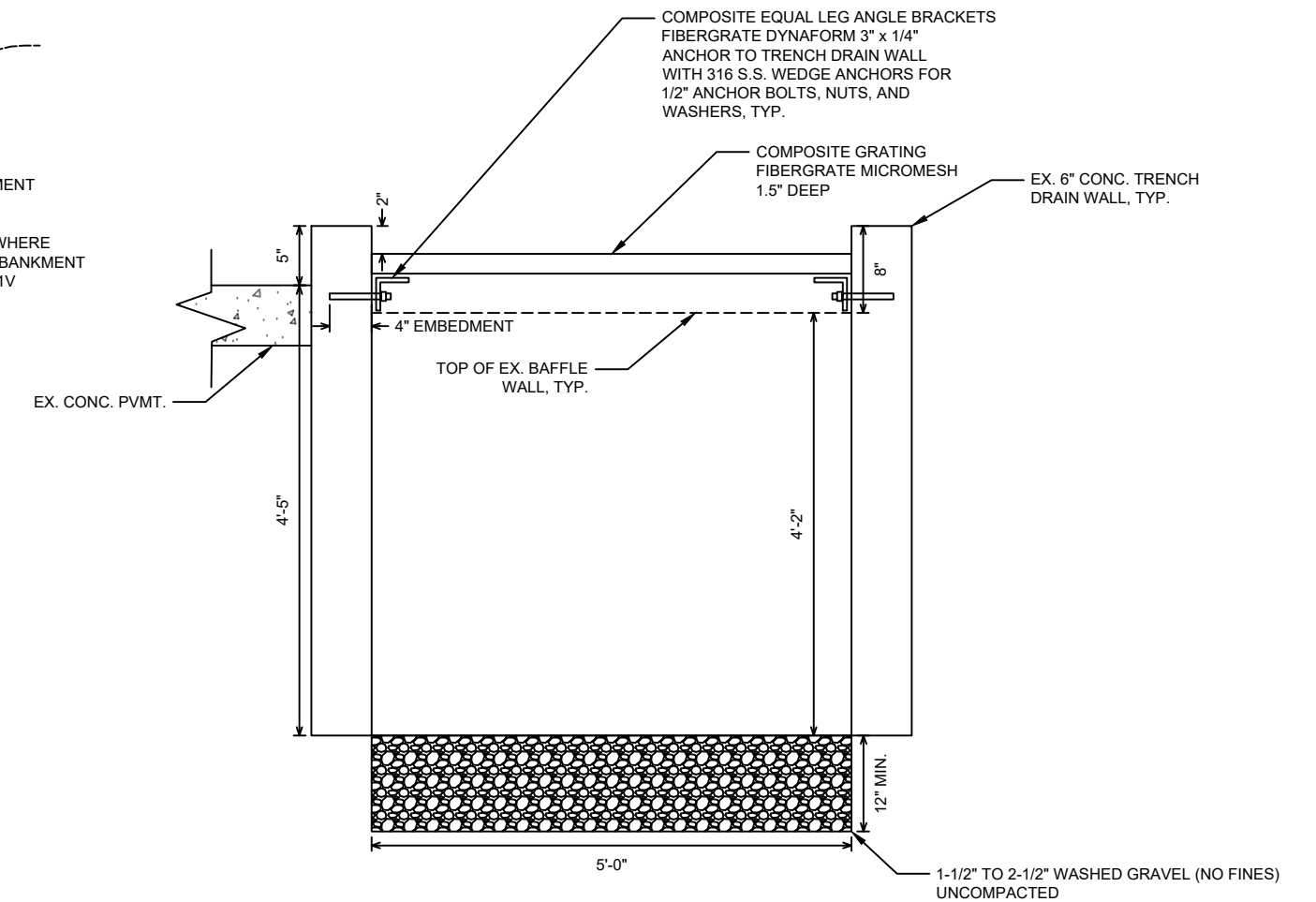


CURB GAP DETAIL
(NOT TO SCALE)

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
KIHEI BOAT RAMP BOAT WASH DOWN DRAINAGE IMPROVEMENTS					
DEMO & SITE PLAN					
DESIGNED:			SUBMITTED:		
DRAWN:			DATE:		
CHECKED:			SCALE:		
APPROVED:					DRAWING NO.
					C-1



RETAINING WALL SECTION
(NOT TO SCALE)



TRENCH DRAIN & GRATING DETAIL
(NOT TO SCALE)

RETAINING WALL NOTES:

1. EMBANKMENT MATERIAL REMOVED FOR GRADED AREA BEHIND RETAINING WALL SHALL BE REMOVED FROM THE SITE AND DISPOSED AT AN APPROPRIATE DISPOSAL SITE.
2. DRAIN ROCK, SILT, DEBRIS, ETC. REMOVED FROM TRENCH DRAIN SHALL BE HAULED AND DISPOSED AT AN APPROPRIATE COUNTY OF MAUI APPROVED LANDFILL FACILITY.
3. KEYSTONE WALL BLOCKS SHALL BE COMPACT III TRIPLANE, 8" DEEP WITH 4" WALL CAP.
4. FOLLOW KEYSTONE RETAINING WALL MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION AND WALL CONNECTIONS.
5. GEOTEXTILE FABRIC SHALL BE MIRAFI 140N OR APPROVED EQUAL.
6. BACKFILL BEHIND RETAINING WALL SHALL BE PLACED AND COMPACTED IN MIN. 8" LIFTS.
7. RETAINING WALLS SHALL BE INSTALLED FLUSH AGAINST EXISTING CONCRETE SIGN FOOTINGS. CONTRACTOR SHALL REMOVE CONCRETE FROM SIGN FOOTING AS NECESSARY FOR CONSTRUCTION OF REINFORCED CONCRETE WALL FOOTING.

TRENCH DRAIN & GRATING NOTES:

1. COMPOSITE GRATING SHALL BE FIBERGRATE MICROMESH, 1.5" DEEP, OR APPROVED EQUAL.
2. COMPOSITE GRATING SUPPORT BRACKETS SHALL BE FIBERGRATE DYNAFORM ANGLE BRACKETS, 3" x 1/4", OR APPROVED EQUAL.
3. 192 LF OF COMPOSITE GRATING AND BRACKETS SHALL BE PROVIDED BY THE STATE. CONTRACTOR SHALL PROVIDE ALL MOUNTING HARDWARE INCLUDING, BUT NOT LIMITED TO, WEDGE ANCHORS, 1/2" ANCHOR BOLTS, NUTS, AND WASHERS. HARDWARE REQUIRED FOR ATTACHING GRATING TO ANGLE BRACKETS SHALL BE PROVIDED BY THE CONTRACTOR.
4. 77 LF OF COMPOSITE GRATING, ANGLE BRACKETS, AND ASSOCIATED MOUNTING HARDWARE SHALL BE PROVIDED BY THE CONTRACTOR.
5. COMPOSITE GRATING AND ANGLE BRACKETS SHALL BE CUT TO FIT ALL BENDS IN GRATING SUCH THAT THERE ARE NO GAPS GREATER THAN 1/2" BETWEEN GRATING AND TRENCH DRAIN WALLS.
6. 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.
7. 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)

REVISION NO.	SYM.	DESCRIPTION	SHT. OF	DATE	APPROVED
KIHEI BOAT RAMP BOAT WASH DOWN DRAINAGE IMPROVEMENTS					
DETAILS & PHOTOS					
DESIGNED:			SUBMITTED:		
DRAWN:			DATE:		
CHECKED:			SCALE:		
APPROVED:			DRAWING NO.		
			C-2		