

WATER NOTES:

1. Unless otherwise specified, all materials and construction of water system facilities and appurtenances shall be in accordance with the City and County of Honolulu Board of Water Supply's "WATER SYSTEM STANDARDS", DATED 2002, THE "WATER SYSTEM EXTERNAL CORROSION CONTROL STANDARDS", VOLUME 3, DATED 2021, and all subsequent amendments and additions.

2. No deviation to the Board of Water Supply 2002 Water System Standards as amended, shall be allowed without the Manager and Chief Engineer's approval.

3. All plans approved by the Board of Water Supply are based solely on the adequacy of the water supply and/or if work is to be done on/or near the water system.

4. The existence and location of underground utilities and structures as shown on the plans are from the latest available data but are not guaranteed as to their accuracy or the encountering of other obstacles during the course of the work. The Contractor shall be responsible and pay for all damages to existing utilities. The Contractor shall not assume that where no utilities are shown, that none exist.

5. The Contractor shall be responsible for the protection of all waterlines during construction. The Contractor shall be especially careful when excavating behind waterlines, tees, and bends wherever there is a possibility of water line movement due to the removal of the supporting earth beyond the existing reaction blocks. The Contractor shall take whatever measures necessary to protect the waterlines, such as constructing special reaction blocks (with Board of Water Supply approval) and/or modifying his construction methods.

6. Re-approval shall be required if this project is not under construction within a period of two (2) years.

7. Prior to any excavation, the Contractor shall verify in the field the location of existing waterlines and appurtenances.

8. Any adjustments to the existing water system required during construction, to meet the requirements of BWS Standards, whether shown on the plans or not, shall be done by the Contractor at no cost to the Board.

9. When a utility (gas, sewer, electrical duct line, fiber optic, drainage, etc.) crosses below a Board of Water Supply water main, the designer of record and their construction engineer shall be responsible for determining the adequate water main structural support and submit the construction method and shop drawing, stamped by a licensed engineer and reviewed and accepted by the designer of record, to the Board of Water Supply for review and approval. All work shall be at no cost to the Board of Water Supply.

10. At utility crossings where proper compaction under a water main is difficult to achieve, CLSM shall be installed in place of backfill material and pipe cushion material. CLSM mixture to be furnished shall be in accordance with Division 200 - Materials, Section 209.06 Controlled Low Strength Material (CLSM) of the Water System Standards as amended.

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(285)	2023	9	287

ORIGINAL PLAN	SURVEY PLOTTED BY _____	DATE _____
	DRAWN BY _____	_____
	TRACED BY _____	_____
	NOTE BOOK	QUANTITIES BY _____
	CHECKED BY _____	N# _____

RANDALL M. URASAKI

LICENSED PROFESSIONAL ENGINEER

No. 7288-C

HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

RANDALL M. URASAKI

SIGNATURE

04/30/24

EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

WATER NOTES

INTERSTATE ROUTE H-1 IMPROVEMENTS
Vicinity of Pearl City Viaduct to Waimalu Viaduct
Federal-Aid Project No. NH-HI-1(285)

Scale: None Date: May 2023

SHEET No. N-7 OF 9 SHEETS

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