

WATER NOTES:

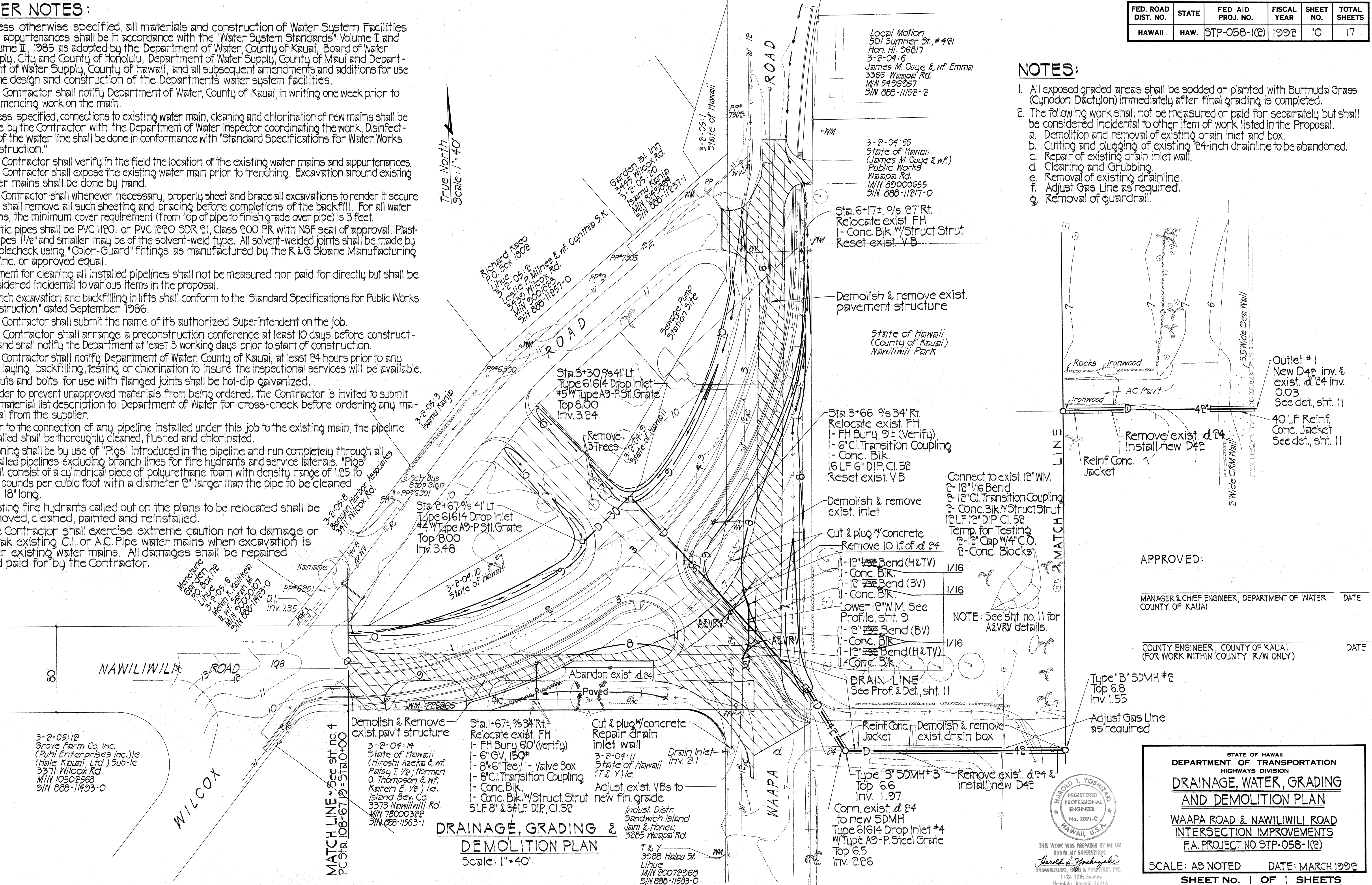
1. Unless otherwise specified, all materials and construction of Water System Facilities and appurtenances shall be in accordance with the "Water System Standards" Volume I and Volume II, 1985 as adopted by the Department of Water, County of Kauai, Board of Water Supply, City and County of Honolulu, Department of Water Supply, County of Maui and Department of Water Supply, County of Hawaii, and all subsequent amendments and additions for use in the design and construction of the Department's water system facilities.
2. The Contractor shall notify Department of Water, County of Kauai, in writing one week prior to commencing work on the main.
3. Unless specified, connections to existing water main, cleaning and chlorination of new mains shall be done by the Contractor with the Department of Water Inspector coordinating the work. Disinfection of the water line shall be done in conformance with "Standard Specifications for Water Works Construction."
4. The Contractor shall verify in the field the location of the existing water mains and appurtenances. The Contractor shall expose the existing water main prior to trenching. Excavation around existing water mains shall be done by hand.
5. The Contractor shall whenever necessary, properly sheet and brace all excavations to render it secure and shall remove all such sheeting and bracing before completions of the backfill. For all water mains, the minimum cover requirement (from top of pipe to finish grade over pipe) is 3 feet.
6. Plastic pipes shall be PVC 1120, or PVC 1220 SDR 21, Class 200 PR with NSF seal of approval. Plastic pipes 1 1/2" and smaller may be of the solvent-weld type. All solvent-welded joints shall be made by Doublecheck using "Color-Guard" fittings as manufactured by the R & G Sloane Manufacturing Co., Inc. or approved equal.
7. Payment for cleaning all installed pipelines shall not be measured nor paid for directly but shall be considered incidental to various items in the proposal.
8. Trench excavation and backfilling in lifts shall conform to the "Standard Specifications for Public Works Construction" dated September 1986.
9. The Contractor shall submit the name of its authorized Superintendent on the job.
10. The Contractor shall arrange a preconstruction conference at least 10 days before construction and shall notify the Department at least 3 working days prior to start of construction.
11. The Contractor shall notify Department of Water, County of Kauai, at least 24 hours prior to any pipe laying, backfilling, testing or chlorination to insure the inspectional services will be available.
12. All nuts and bolts for use with flanged joints shall be hot-dip galvanized.
13. In order to prevent unapproved materials from being ordered, the Contractor is invited to submit his material list description to Department of Water for cross-check before ordering any material from the supplier.
14. Prior to the connection of any pipeline installed under this job to the existing main, the pipeline installed shall be thoroughly cleaned, flushed and chlorinated.
15. Cleaning shall be by use of "Pigs" introduced in the pipeline and run completely through all installed pipelines excluding branch lines for fire hydrants and service laterals. "Pigs" shall consist of a cylindrical piece of polyurethane foam with density range of 1.25 to 1.45 pounds per cubic foot with a diameter 2" larger than the pipe to be cleaned and 18" long.
16. Existing fire hydrants called out on the plans to be relocated shall be removed, cleaned, painted and reinstalled.
17. The Contractor shall exercise extreme caution not to damage or break existing C.I. or A.C. Pipe water mains when excavation is over existing water mains. All damages shall be repaired and paid for by the Contractor.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-058-1(2)	1992	10	17

NOTES:

1. All exposed graded areas shall be sodded or planted with Bermuda Grass (Cynodon Dactylon) immediately after final grading is completed.
2. The following work shall not be measured or paid for separately but shall be considered incidental to other item of work listed in the Proposal.
 - a. Demolition and removal of existing drain inlet and box.
 - b. Cutting and plugging of existing 24-inch drainline to be abandoned.
 - c. Repair of existing drain inlet wall.
 - d. Clearing and Grubbing.
 - e. Removal of existing drainline.
 - f. Adjust Gas Line as required.
 - g. Removal of guardrail.

DATE	10/18/88
SURVEY PLOTTED BY	...
DRAWN BY	...
TRACED BY	...
NOTED BY	...
QUANTITIES BY	...
CHECKED BY	...
ORIGINAL PLAN	...
NOTE BOOK	...
NO.	...



APPROVED:

MANAGER & CHIEF ENGINEER, DEPARTMENT OF WATER
COUNTY OF KAUAI

COUNTY ENGINEER, COUNTY OF KAUAI
(FOR WORK WITHIN COUNTY R/W ONLY)

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**DRAINAGE, WATER, GRADING
AND DEMOLITION PLAN**

WAAPA ROAD & NAWILIWILI ROAD
INTERSECTION IMPROVEMENTS
F.A. PROJECT NO. STP-058-1(2)

SCALE: AS NOTED DATE: MARCH 1992
SHEET NO. 1 OF 1 SHEETS

THIS WORK WAS PREPARED BY ME OR
UNDER MY SUPERVISION

Harold L. Yoshizaki
REGISTERED PROFESSIONAL ENGINEER
No. 2091-C
HAWAII, U.S.A.

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