

PROJECT SITE MAP

PROJECT LOCATION MAP SCALE : AS SHOWN

MATERIAL LIST AND STANDARD DETAILS FOR WATER SYSTEM

CONSTRUCTION", VOLUME 2, DATED 1985, AND ALL SUBSEQUENT

BASED SOLELY ON THE ADEQUACY OF THE WATER SUPPLY. ALL

OTHER FEATURES OF THE WATER SYSTEM, SUCH AS LINES,

GRADES, FITTINGS, ETC., AND DRAINAGE AND OTHER FEATURES

OF IMPROVEMENTS SHALL NOT BE THE RESPONSIBILITY OF THE

WRITING ONE WEEK PRIOR TO COMMENCING WORK ON THE WATER

OF ALL WATER LINES DURING CONSTRUCTION. THE CONTRACTOR

SHALL BE ESPECIALLY CAREFUL WHEN EXCAVATING BEHIND WATER

LINE TEES AND BENDS WHEREVER THERE IS A POSSIBILITY OF

WATER LINE MOVEMENT DUE TO REMOVAL OF THE SUPPORTING EARTH BEYOND THE EXISTING REACTION BLOCKS. THE

CONTRACTOR SHALL TAKE WHATEVER MEASURE HE DEEMS

NECESSARY TO PROTECT THE WATER LINES, SUCH AS

CONSTRUCTING SPECIAL REACTION BLOCKS (WITH BWS APPROVAL)

STRUCTURES AS SHOWN ON THE PLANS ARE FROM THE LATEST

AVAILABLE DATA BUT IS NOT GUARANTEED AS TO THE ACCURACY

OR THE ENCOUNTERING OF OTHER OBSTACLES DURING THE COURSE

OF THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE AND

APPROVAL BY BOARD OF WATER SUPPLY, THE MANUFACTURER'S

CERTIFICATION THAT ALL CAST IRON (GRAY OR DUCTILE) FITTINGS FOR THE PROJECT CONFORM IN ALL RESPECTS TO THE

SHALL BE APPLICABLE TO BOTH CAST IRON AND DUCTILE IRON

BOARD OF WATER SUPPLY APPROVAL OF THESE PLANS DOES NOT CONSTITUTE A WATER COMMITMENT. AVAILABILITY OF WATER

WILL BE DETERMINED WHEN BUILDING PERMIT IS PRESENTED TO

THE DEPARTMENT. WATER COMMITMENT WILL DEPEND UPON THE STATUS OF THE WATER SYSTEM AT THAT TIME. SHOULD WATER

EFFECTIVE WHEN THE PROJECT RECEIVES AN APPROVED BUILDING

PERMIT FROM THE BUILDING DEPARTMENT. ALL WATER

COMMITMENTS WILL BE CANCELED IN THE EVENT THE BUILDING

SERVICE BE MADE AVAILABLE, THE WATER COMMITMENT WILL BE -

6. THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES AND

7. PRIOR TO INSTALLATION, THE CONTRACTOR SHALL SUBMIT FOR

8. POLYGON SHAPE FOR MECHANICAL JOINT GLANDS AS DESCRIBED IN AWWA STANDARD C111 SHALL BE "STRAIGHT-SIDED" AND

SHALL PAY FOR ALL DAMAGES TO EXISTING UTILITIES.

AND/OR MODIFYING HIS CONSTRUCTION METHODS.

WATER SYSTEM STANDARDS, DATED 1985.

4. THE CONTRACTOR SHALL NOTIFY THE BOARD OF WATER SUPPLY IN

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION

INDEX TO DRAWINGS

- AND HIGHWAYS, PART VI TRAFFIC CONTROL FOR HIGHWAY CONSTRUCTION AND MAINTENANCE OPERATIONS", DATED 1978. IF LANE CLOSURES ARE REQUIRE DURING CONSTRUCTION, A TRAFFIC CONTROL PLAN SHALL BE INCORPORATED INTO THE CONSTRUCTION PLANS AND MUST BE APPROVED BY THE DIVISION PRIOR TO THE ISSUANCE OF THE PERMIT.
- 5. NO MATERIAL AND OR EQUIPMENT SHALL BE STOCKPILED OR OTHERWISE STORED WITHIN HIGHWAY RIGHTS-OF-WAY EXCEPT AT LOCATIONS DESIGNATED IN WRITING AND APPROVED BY THE DISTRICT ENGINEER.
- 6. PRIOR TO COMMENCING TRENCH EXCAVATION WORK, THE CONTRACTOR SHALL TAKE A PROFILE ALONG THE NEW CENTERLINE OF UTILITY TRENCH AND THAT SUCH INFORMATION SHALL BE USED IN THE VERIFICATION OF RESTORING THE ROADWAY TO ITS ORIGINAL CONDITION. A COPY OF THE PROFILE SHALL BE SUBMITTED TO
- 7. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ADEQUATE, SAFE, NON-SKID BRIDGING MATERIAL OVER THE TRENCH, INCLUDING SHORING, WHEN TRENCHING IN PAVEMENT AREAS TO HANDLE ALL TYPES OF VEHICULAR TRAFFIC.
- 8. NO TRENCH SHALL BE OPENED MORE THAN 10 FEET IN ADVANCE OF THE INSTALLATION AND TESTED PIPE AND/OR DUCTLINE.
- 9. LONGITUDINAL DRAINAGE ALONG THE HIGHWAY SHALL BE MAINTAINED.
- APPROVAL OF PERMIT CONSTRUCTION PLANS SHALL BE VALID FOR A PERIOD OF ONE YEAR THEREOF FROM THE DATE OF NOTIFICATION OF APPROVAL TO THE APPLICANT. IN THE EVENT CONSTRUCTION DOES NOT COMMENCE WITHIN THIS ONE-YEAR PERIOD, THE APPLICANT WILL BE REQUIRED TO RESUBMIT HIS CONSTRUCTION PLANS FOR THE DIVISION'S REVIEW AND APPROVAL.
- 11. ALL REGULATORY, GUIDE AND CONSTRUCTION SIGNS AND BARRICADES SHALL BE OF HIGH INTENSITY REFLECTIVE SHEETING.
- 12. COMPACTION TESTS SHALL BE TAKEN IN ACCORDANCE WITH THE "SPECIFICATIONS FOR THE INSTALLATION OF MISCELLANEOUS IMPROVEMENTS WITHIN STATE HIGHWAYS", DATED MAY 1, 1984 AS FOLLOWS:
 - 1. SUBBASE: 1 COMPACTION TEST.
 - 2. BASE COURSE: 1 COMPACTION TEST.
 - 3. ONE COMPACTION TEST FOR EACH 100 LINEAR FEET OF TRENCH.

SUBMIT RESULTS TO THE OAHU DISTRICT ENGINEER.

APPROVED:

Chief, Planning and Engineering, B.W.S.

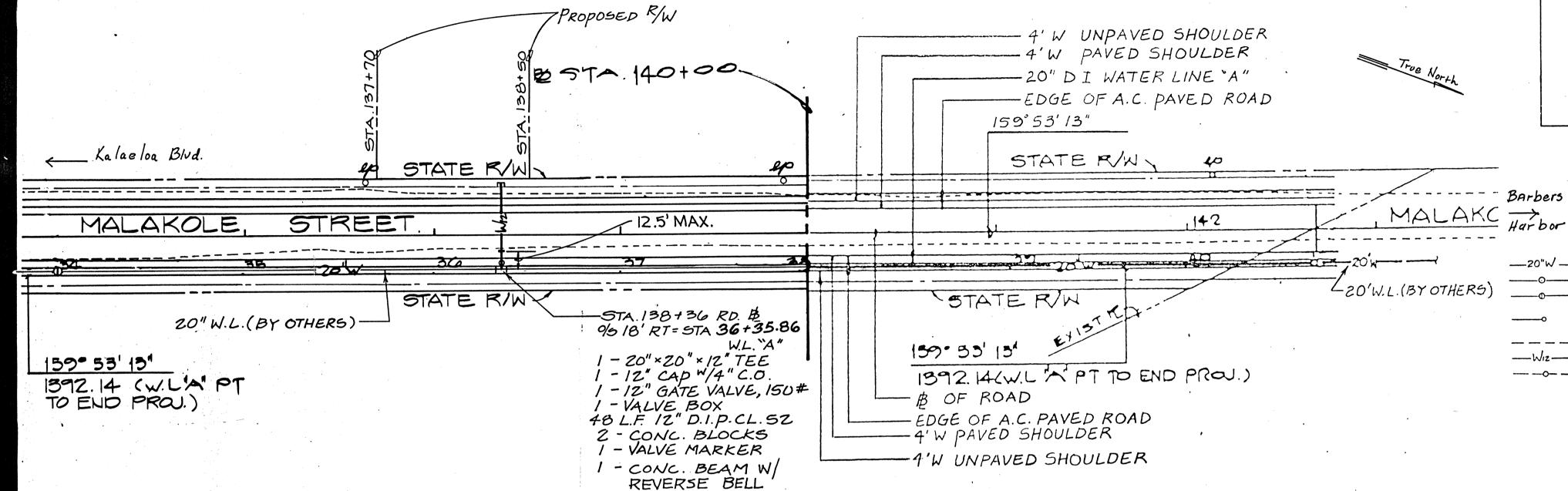
CITY AND COUNTY OF HONOLULU

PRO

11-16-88

DATE

HAWAII, DEPARTMENT OF TRANSPORTATION PROJECT NO. 95A-01-87



B' SHOULDER. 24' ROADWAY B'SHOULDER -MALAKOLE ST. FINISHED GRADE +NEW 12" GATE VALVE |W/BOX TOP = 8.31 EXISTING GRADE-2%-\ 5%-DISTANCE DETERMIND IN FIELD. 12½ MAX -20" WATER LINE -INVERT OF 48 L.F. OF NEW 12" WATERLINE @ 2.24% W/ 20" × 20" × 12" TEE & CONC. BLOCK CONCRETE THRUST BEAM PER BWS STANDARD DETAIL

> NEW 12" WATERLINE PROFILE MEW A.C. PAVEMENT SCALE: HORIZ: 1" = 10 PAYMENT VERT. : | " = 10' TRENCH WIDTH 1 6" EX'TG A.C. PAYEMENT -BASE COURSE -SELECT.BACKFILL,MATERIAL -PIPE CUSHION MATERIAL

NOTE:
THICKNESS OF NEW A.C. PAVEMENT AND BASE COURSE SHALL BE EQUAL
THICKNESS OF NEW A.C. PAVEMENT AND BASE COURSE BUT NOT LESS TO THAT OF THE EXISTING PAVEMENT AND BASE COURSE BUT NOT LESS THAN THE MINIMUM INDICATED BELOW.

PERMIT IS CANCELED.

BOARD OF WATER SUPPLY.

3. TEST PRESSURE SHALL BE 150 PSI.

GRAPHIC SCALE

SCALE: 1" = 20'

20 10 0 40 20 0 SCALE: 1" = 40'

REFERENCE DRAWINGS: DOT PROJECT NO. 95A-01-87 SHEET NOS. 5,14,15,20 & 21

NOT TO SCALE

PAVEMENT RESTORATION DETAIL

110. AREA = 10 SF MIN-