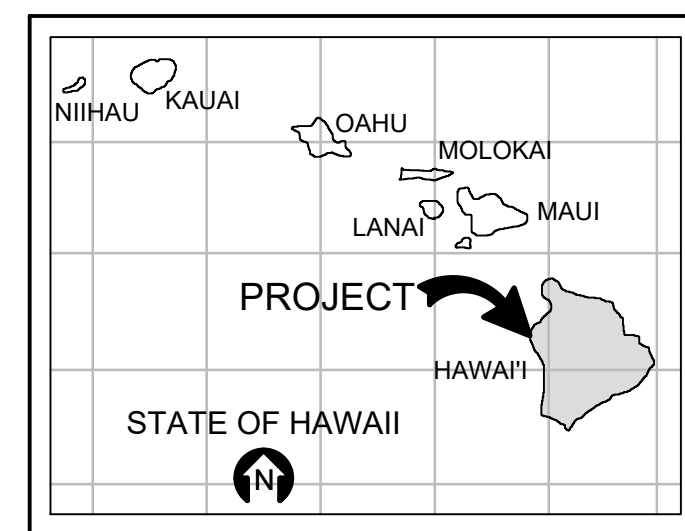


**STATE OF HAWAII
DEPARTMENT OF HAWAIIAN HOME LANDS**

**EAST HAWAI'I DISTRICT OFFICE
UTILITY IMPROVEMENTS
IFB-24-HHL-009**

162 BAKER AVENUE, HILO, HI 96720
T.M.K.: (3) 2-1-023:157 & 158

LOCATION MAP



PROJECT LOCATION

CODE REFERENCES

1. THE INFORMATION CONTAINED HEREIN IS BASED UPON LIMITED FIELD INVESTIGATIONS AND AVAILABLE RECORD DRAWINGS.
2. DRAWINGS ARE INTENDED TO PROVIDE A GRAPHIC ILLUSTRATION OF DESIGN CONCEPT, ONLY, AND DEPICT THE GENERAL PLACEMENT OF CERTAIN COMPONENTS IN RELATION TO EACH OTHER.
3. FOR CLARITY, DETAIL DRAWINGS DO NOT SHOW ALL COMPONENTS OR ILLUSTRATE ALL FIELD CONDITIONS THAT MAY BE PRESENT.
4. CONTRACTOR SHALL TAKE MEASUREMENTS AND FIELD VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO CONSTRUCTION AND/OR FABRICATION.
5. ALL CONSTRUCTION SHALL CONFORM TO THE 2018 INTERNATIONAL BUILDING CODE (IBC) AND THE LATEST CITY AND COUNTY OF MAUI/STATE OF HAWAII AMENDMENTS AND ORDINANCES. FIRE SAFETY DURING CONSTRUCTION, ALTERATION OR DEMOLITION SHALL BE CONFORMED IN ACCORDANCE WITH THE CURRENT UNIFORM FIRE CODE.

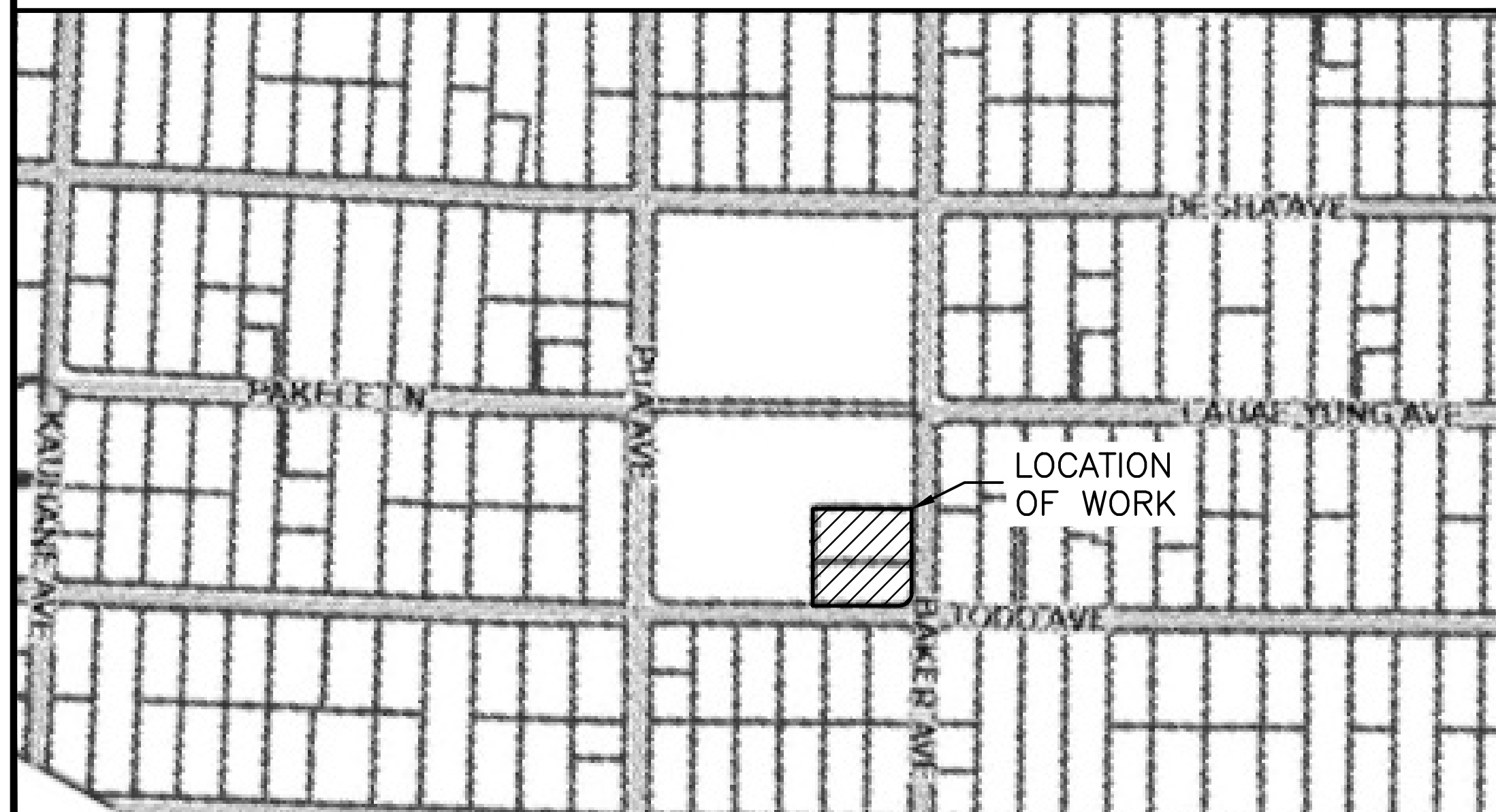
INDEX OF DRAWINGS

COUNT	SHEET No.	SHEET DESCRIPTION
1	T01	TITLE SHEET
2	C01	WATER NOTES AND BMP DETAILS
3	C02	EXISTING SITE AND DEMOLITION PLAN
4	C03	REVISED SITE UTILITY PLAN
5	C04	CIVIL DETAILS

ZONING DATA

OWNER: DEPARTMENT OF HAWAIIAN HOME LANDS
T.M.K.: (3) 2-1-023:157 & 158
ZONING: RS-10
STATE LAND USE: URBAN
FLOOD ZONE: X
SMA: NOT IN SMA
LOT AREA: 51,557 SQ.FT. (1.1836 ACRES)

VICINITY MAP



PREPARED FOR

DEPARTMENT OF HAWAIIAN HOME LANDS, STATE OF HAWAII

LAND DEVELOPMENT DIVISION CONTACT:
91-5420 KAPOLEI PARKWAY KALI WATSON
KAPOLEI, HAWAII 96707 CHAIRMAN, HAWAIIAN HOMES COMMISSION

PREPARED BY

HAWAII ENGINEERING GROUP, INC. CONTACT:
1088 BISHOP STREET, SUITE 2506 GREGORY D. SANTORO, P.E.
HONOLULU, HAWAII 96813

APPROVED :

CHIEF, CIVIL ENGINEERING BRANCH DATE
DEPARTMENT OF PLANNING AND PERMITTING

APPROVALS

REVIEWER	REVIEWER
DATE	DATE
PLANNING	PLUMBING
REVIEWER	REVIEWER
DATE	DATE
ENGINEERING	MECHANICAL
REVIEWER	REVIEWER
DATE	DATE
DEM WASTEWATER	FIRE
REVIEWER	REVIEWER
DATE	DATE
DOH WASTEWATER	STRUCTURAL
REVIEWER	REVIEWER
DATE	DATE
DOH FOOD SAFETY	BUILDING
REVIEWER	REVIEWER
DATE	DATE
ELECTRICAL	

REVISION NO.	DATE	REVISIONS	BY

DEPARTMENT OF HAWAIIAN HOME LANDS

**EAST HAWAI'I DISTRICT OFFICE
UTILITY IMPROVEMENTS
162 BAKER AVE., HILO, HI 96720
T.M.K.: (3) 2-1-023:157 & 158**

TITLE SHEET

DESIGNED BY: GS	 HAWAII ENGINEERING GROUP, Inc. Civil & Structural Engineers 1088 BISHOP STREET #2506 HONOLULU, HI 96813 Tel: 808-533-2092	JOB NO. 24-096
DRAWN BY: DL		
CHECKED BY: GS		
SUPV: GS		
DATE: 05/01/26	SHEET T01 1 OF 5 SHEETS	

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION

FILE _____ DRAWER _____ FOLDER _____

WATER NOTES:

SECTION 3-21. CROSS-CONNECTIONS AND BACKFLOW PROTECTION

- NO CROSS-CONNECTIONS WITH OTHER WATER SUPPLIES SHALL EXIST OR BE INSTALLED, LOCATED, MAINTAINED OR OPERATED THAT COULD PERMIT THE FLOW OF WATER OR OTHER LIQUIDS, MIXTURES, GASES OR OTHER SUBSTANCES FROM THE CONSUMER'S PREMISES INTO THE DEPARTMENT'S WATER SYSTEM.
- IT IS UNLAWFUL FOR ANY PERSON TO MAKE, MAINTAIN, OR CAUSE TEMPORARILY OR PERMANENTLY, ANY CROSS-CONNECTION THAT HAS A POTENTIAL FOR BACKFLOW BETWEEN THEIR PLUMBING PIPES OR WATER FIXTURES AND THE DEPARTMENT'S WATER SYSTEM. EXISTING CROSS-CONNECTIONS BETWEEN THE DEPARTMENT'S WATER SYSTEM AND ANY AUXILIARY WATER SUPPLY SHALL BE ELIMINATED OR PROTECTED BY MEANS OF AN APPROVED BACKFLOW PREVENTION ASSEMBLY. CROSS-CONNECTION CONTROL AND BACKFLOW PREVENTION REQUIREMENTS FOR FACILITIES AND/OR PREMISES SHALL BE IN ACCORDANCE TO THE DEPARTMENT'S STANDARDS. THE FOLLOWING CONDITIONS SHALL BE ADHERED TO:
 - THE DEPARTMENT SHALL REQUIRE THE CONSUMER TO INSTALL AN APPROVED BACKFLOW PREVENTION ASSEMBLY AT HIS OWN EXPENSE FOR CONTINUED SERVICE OR BEFORE A NEW SERVICE WILL BE PROVIDED, WHENEVER THE CONSUMER HAS AN ACTUAL OR POTENTIAL SITUATION FOR BACKFLOW CONDITION WITHIN THEIR PREMISES AND/OR FOR ANY REASON OR CAUSE DEEMED IN THE BEST INTEREST OF THE DEPARTMENT. THE ASSEMBLY SHALL BE LOCATED IMMEDIATELY DOWNSTREAM OF THE METER.
 - IF THERE IS A NEED FOR UNINTERRUPTED WATER SERVICE, AN ADDITIONAL BACKFLOW PREVENTION ASSEMBLY SHALL BE INSTALLED IN AN APPROVED MANNER TO ENSURE CONTINUED WATER SERVICE WHENEVER INSPECTION, TESTING AND REPAIR PROCEDURES IS BEING PERFORMED ON ANY ONE OF THESE ASSEMBLIES.
- THE CONSUMER IS SOLELY RESPONSIBLE FOR THE INSTALLATION, MAINTENANCE, TESTING AND REPAIR OF HIS BACKFLOW PREVENTION ASSEMBLY AS REQUIRED BY THESE RULES AND REGULATIONS. THE DEPARTMENT WILL NOT BE RESPONSIBLE FOR ANY LOSS OR DAMAGE INCURRED BY THE CONSUMER OR OWNER AS A RESULT OF NON-COMPLIANCE WITH THE DEPARTMENT'S RULES AND REGULATIONS.
- IT IS THE RESPONSIBILITY OF THE CONSUMER/OWNER TO MAINTAIN ALL BACKFLOW PREVENTION ASSEMBLIES ON THE CONSUMER'S PREMISES IN GOOD WORKING ORDER. NO PIPING OR OTHER ARRANGEMENT FOR THE PURPOSE OF BYPASSING BACKFLOW PREVENTION ASSEMBLIES SHALL BE PERMITTED. UPON REQUEST BY THE DEPARTMENT, THE CONSUMER SHALL PRESENT AN AFFIDAVIT CERTIFYING THAT THERE ARE NO CROSS-CONNECTIONS WITH OTHER WATER SUPPLIES OR OTHER PHYSICAL CROSS-CONNECTIONS INSTALLED, LOCATED, MAINTAINED OR OPERATED THAT COULD PERMIT BACKFLOW.
 - THE DEPARTMENT SHALL ESTABLISH PERIODIC TESTING AND INSPECTION SCHEDULES FOR ALL BACKFLOW PREVENTION ASSEMBLIES. INTERVALS BETWEEN SUCH TESTING, INSPECTIONS AND OVERHAULS OF EACH ASSEMBLY SHALL BE ESTABLISHED IN ACCORDANCE WITH THE DEGREE OF HAZARD, AGE AND CONDITION OF THE BACKFLOW ASSEMBLY AND THE COST TO DO IT SHALL BE THE RESPONSIBILITY OF THE CONSUMER. THE FOLLOWING MAINTENANCE REQUIREMENTS SHALL APPLY:
 - ALL BACKFLOW PREVENTION ASSEMBLIES SHALL BE INSPECTED AND TESTED UPON INITIAL INSTALLATION.
 - ALL BACKFLOW PREVENTION ASSEMBLIES SHALL BE INSPECTED AND TESTED YEARLY, REPAIRED IF NECESSARY, AND RE-TESTED BEFORE BEING PLACED BACK INTO SERVICE. WASTEWATER FACILITIES' BACKFLOW PREVENTION ASSEMBLIES SHALL BE INSPECTED AND TESTED EVERY 4 MONTHS, REPAIRED IF NECESSARY, AND RE-TESTED BEFORE BEING PLACED BACK INTO SERVICE.
 - A CERTIFIED GENERAL TESTER ACCEPTABLE TO THE DEPARTMENT SHALL PERFORM THE INSPECTION AND TESTING. A CURRENT LIST OF APPROVED TESTERS WILL BE AVAILABLE UPON REQUEST BY THE CONSUMER.
 - INSPECTIONS AND TESTS OF BACKFLOW PREVENTION ASSEMBLIES MAY BE REQUIRED AT MORE FREQUENT INTERVALS AS REQUIRED BY THE DEPARTMENT.
 - TEST EQUIPMENT SHALL BE CERTIFIED BY UNIVERSITY OF SOUTHERN CALIFORNIA FOUNDATION FOR CROSS CONNECTION CONTROL AND HYDRAULIC RESEARCH, CALIBRATED BY THE MANUFACTURER EVERY 2 YEARS, AND SHALL MAINTAIN A PRECISION OF +/- 5% OF THE ACTUAL READING.
 - WHEN A BACKFLOW PREVENTION ASSEMBLY FAILS IN SERVICE, THE CONSUMER/OWNER SHALL NOTIFY THE DEPARTMENT. REPAIRS ARE THE RESPONSIBILITY OF THE CONSUMER. A CERTIFIED GENERAL TESTER APPROVED BY THE DEPARTMENT SHALL PERFORM THE TESTING. BACKFLOW PREVENTION ASSEMBLY TEST FORMS SHALL BE COMPLETED AND SENT TO THE DEPARTMENT FOR CONFIRMATION THAT THE DEVICE HAS BEEN PROPERLY REPAIRED AND FUNCTIONING AS REQUIRED. INSPECTION AND APPROVAL BY THE DEPARTMENT SHALL BE CONDUCTED BEFORE THE DEVICE IS PUT BACK INTO OPERATION.
 - RECORDS OF TESTS, REPAIRS, PARTS AND INSPECTIONS SHALL BE MADE ON FORMS PRESCRIBED BY THE DEPARTMENT. THE CONSUMER SHALL FURNISH A COPY OF SUCH RECORDS TO THE DEPARTMENT. FAILURE OF THE CONSUMER TO MAKE THE PROPER TESTS AND SUBMISSION OF RECORDS MAY RESULT IN TERMINATION OF SERVICE. THE DEPARTMENT HAS THE OPTION TO SCHEDULE TESTS, NEEDED REPAIRS, REPLACEMENTS, AT THE EXPENSE OF THE CONSUMER. FAILURE TO PAY FOR SUCH COSTS SHALL BE CAUSE FOR TERMINATION OF WATER SERVICES.
 - CONDITIONS RELATIVE TO THE INSTALLATION AND MAINTENANCE OF CROSS-CONNECTION CONTROL AND BACKFLOW PREVENTION REFERRED TO IN THIS SECTION SHALL BE SUBJECT TO CHANGE TO MEET CHANGING REQUIREMENTS OF THE STATE AND FEDERAL HEALTH AUTHORITIES, THE COUNTY'S BUILDING AND PLUMBING CODES AND THE DEPARTMENT'S RULES & REGULATIONS.
- ALL INSTALLATIONS SHALL CONFORM TO THE UNIFORM PLUMBING CODE AND THE COUNTY OF HAWAII COUNTY CODE, AND THE DEPARTMENT'S STANDARDS.
 - DETAILS OF THE BACKFLOW PREVENTION ASSEMBLIES, SHOWING BOTH PLAN AND ELEVATION VIEWS, INCLUDING SIZE AND LOCATION OF DEVICES, SHALL BE SUBMITTED TO THE MANAGER FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION. THE BACKFLOW PREVENTION ASSEMBLIES SHALL BE INSTALLED ON THE CONSUMER/OWNER SIDE OF THE PROPERTY LINE IMMEDIATELY DOWNSTREAM OF THE WATER METER. CONNECTIONS BETWEEN THE METER AND THE BACKFLOW PREVENTION ASSEMBLY ARE NOT PERMITTED. INSTALLATION HEIGHTS SHALL CONFORM TO THE DEPARTMENT'S STANDARDS.
 - BACKFLOW ASSEMBLIES SHALL BE INSTALLED ABOVE GROUND UNLESS OTHERWISE APPROVED BY THE MANAGER.
 - THE MANAGER RESERVES THE RIGHT TO DETERMINE THE TYPE OF BACKFLOW PREVENTION INSTALLATION BASED ON A CASE-BY-CASE EVALUATION. IN SITUATIONS WHERE THE HAZARD CANNOT BE READILY DETERMINED OR ACCESS IS RESTRICTED, A REDUCED PRESSURE PRINCIPLE ASSEMBLY OR AIR-GAP SEPARATION SHALL BE REQUIRED.
- TEMPORARY WATER METER INSTALLATIONS SHALL REQUIRE INSTALLATION OF AN APPROVED BACKFLOW PREVENTION ASSEMBLY TO PROTECT THE DEPARTMENT'S WATER SYSTEM. THE FOLLOWING CONDITIONS SHALL APPLY:
 - APPLICATIONS FOR TEMPORARY METER INSTALLATIONS SHALL BE MADE AT THE DEPARTMENT ON APPROPRIATE FORMS PROVIDED BY THE DEPARTMENT. ALL COSTS AND FEES FOR THE INSTALLATION OF THE TEMPORARY WATER METER, BACKFLOW PREVENTION ASSEMBLY AND WATER USE SHALL BE PAID BY THE CONSUMER.
 - APPLICANT SHALL INSTALL A DWS-APPROVED REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER. THE DEPARTMENT SHALL INSPECT THE INSTALLATION AND TEST THE APPLICANT'S BACKFLOW PREVENTER BEFORE ACTIVATING THE TEMPORARY SERVICE. APPLICANT SHALL BE RESPONSIBLE FOR THE MAINTENANCE, REPAIR AND YEARLY TESTING OF THE BACKFLOW PREVENTER.
- WHEN THE DEPARTMENT ENCOUNTERS WATER USES THAT REPRESENT A CLEAR AND IMMEDIATE HAZARD TO THE DEPARTMENT'S WATER SUPPLY THAT CANNOT BE IMMEDIATELY ABATED, THE DEPARTMENT MAY TERMINATE WATER SERVICE AT THE PREMISES IMMEDIATELY. A WRITTEN NOTICE WILL BE GIVEN TO THE CONSUMER AFTER WATER SERVICE TERMINATION.
 - CONDITIONS OR WATER USES THAT CREATE A BASIS FOR IMMEDIATE WATER SERVICE TERMINATIONS INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:
 - REFUSAL TO INSTALL OR TO TEST A BACKFLOW PREVENTION ASSEMBLY, OR TO REPAIR OR REPLACE A FAULTY BACKFLOW PREVENTION ASSEMBLY.
 - DIRECT OR INDIRECT CONNECTIONS BETWEEN THE DEPARTMENT'S WATER SYSTEM AND A SEWER LINE.
 - UNPROTECTED DIRECT OR INDIRECT CONNECTIONS BETWEEN THE DEPARTMENT'S WATER SYSTEM AND A SYSTEM OR EQUIPMENT CONTAINING POLLUTANTS AND/OR CONTAMINANTS.

4. UNPROTECTED DIRECT OR INDIRECT CONNECTIONS BETWEEN THE DEPARTMENT'S WATER SYSTEM AND AN AUXILIARY WATER SYSTEM.

(B) FOR ALL OTHER SITUATIONS REQUIRING BACKFLOW PROTECTION WHERE THERE IS NO APPARENT AND IMMEDIATE HAZARD TO THE WATER SUPPLY, THE DEPARTMENT WILL TERMINATE WATER SERVICE TO A CONSUMER'S PREMISES AFTER PROPER NOTIFICATION HAS BEEN SENT. THE TERMINATION STEPS ARE THE FOLLOWING:

- THE CONSUMER WILL BE NOTIFIED BY LETTER OF THE DEPARTMENT'S INTENT TO TERMINATE WATER SERVICE, ALLOWING 30 CALENDAR DAYS TO REMEDY THE SITUATION.
- IF COMPLIANCE HAS NOT BEEN MET, A LETTER TO TERMINATE WATER SERVICE WILL BE ISSUED STATING THAT WATER SERVICES WILL BE TERMINATED WITHIN FIVE (5) CALENDAR DAYS. WATER SERVICE WILL NOT RESUME UNTIL THE CORRECTIVE ACTION HAS BEEN COMPLETED AND APPROVED BY THE DEPARTMENT.

SECTION 4-5. MATERIALS AND CONSTRUCTION STANDARDS, INSTALLATION OF WATER SERVICE, INSPECTION OF WORK

- ALL MATERIALS, DESIGN AND CONSTRUCTION PROCEDURES, AND WORKMANSHIP, WITH RESPECT TO ANY DEVELOPMENT WATER SYSTEM, OR ANY PORTION THEREOF, THAT IS TO BE CONNECTED TO THE PUBLIC WATER SYSTEM SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS AND STANDARDS USED BY THE DEPARTMENT FOR THE CONSTRUCTION OF THE PUBLIC WATER SYSTEM AND WITH THE REQUIREMENTS OF THE STATE DEPARTMENT OF HEALTH AND ALL APPLICABLE LAWS. THE DEPARTMENT SHALL DETERMINE THE CAPACITY, LOCATION, TYPE OF MATERIALS, AND PROPER CONSTRUCTION METHODS OF ANY OF THE COMPONENT PARTS OF THE DEVELOPMENT WATER SYSTEM. IF IT IS ANTICIPATED THAT THE DEVELOPMENT WATER SYSTEM OR ANY PORTION THEREOF IS TO BE CONNECTED TO THE PUBLIC WATER SYSTEM OR WILL BE DEDICATED OR CONVEYED TO THE COUNTY OF HAWAII, THEN THE CONSTRUCTION OF THE WATER SYSTEM OR ANY PORTION THEREOF TO BE CONNECTED TO THE PUBLIC WATER SYSTEM OR BE DEDICATED OR CONVEYED TO THE COUNTY OF HAWAII MUST BE CONSTRUCTED BY A LICENSED CONTRACTOR.
- NO WATER SERVICE SHALL BE APPROVED, EXCEPTING A SERVICE FOR DEVELOPMENT CONSTRUCTION PURPOSE, UNTIL THE DEVELOPMENT WATER SYSTEM HAS BEEN COMPLETED AND ACCEPTED BY THE DEPARTMENT AND ALL THE IMPROVEMENTS REQUIRED BY THE RULES AND REGULATIONS OF THE DEPARTMENT HAVE BEEN COMPLETED.
- THE DEPARTMENT SHALL HAVE FREE ACCESS AT ALL TIMES TO ALL INSTALLATIONS MADE FOR THE DEVELOPMENT AND SHALL BE GIVEN ANY ASSISTANCE REQUIRED AND EVERY FACILITY, INFORMATION, AND MEANS OF THOROUGHLY INSPECTING THE WORK TO BE DONE AND THE MATERIALS USED OR TO BE USED.
- A DEVELOPMENT WATER SYSTEM NOT DEDICATED OR CONVEYED TO THE DEPARTMENT SHALL NEVERTHELESS BE REVIEWED AND INSPECTED BY THE DEPARTMENT. PRIOR TO THE BEGINNING OF CONSTRUCTION OF THE REQUIRED IMPROVEMENTS OR PRIOR TO FINAL APPROVAL OF A DEVELOPMENT MAP, WHEN A SUITABLE BOND IS POSTED, THE DEVELOPER SHALL BE REQUIRED TO PAY A FEE OF FOUR-TENTHS (0.4) OF ONE PERCENT (1%) OF THE ESTIMATED COST OF THE CONSTRUCTION WORK OF THE DEVELOPMENT WATER SYSTEM BUT NOT LESS THAN FIFTY DOLLARS (\$50.00) TO COVER THE COSTS OF PLAN REVIEW, TESTING AND INSPECTION.

PUBLIC HEALTH, SAFETY AND CONVENIENCE NOTES:

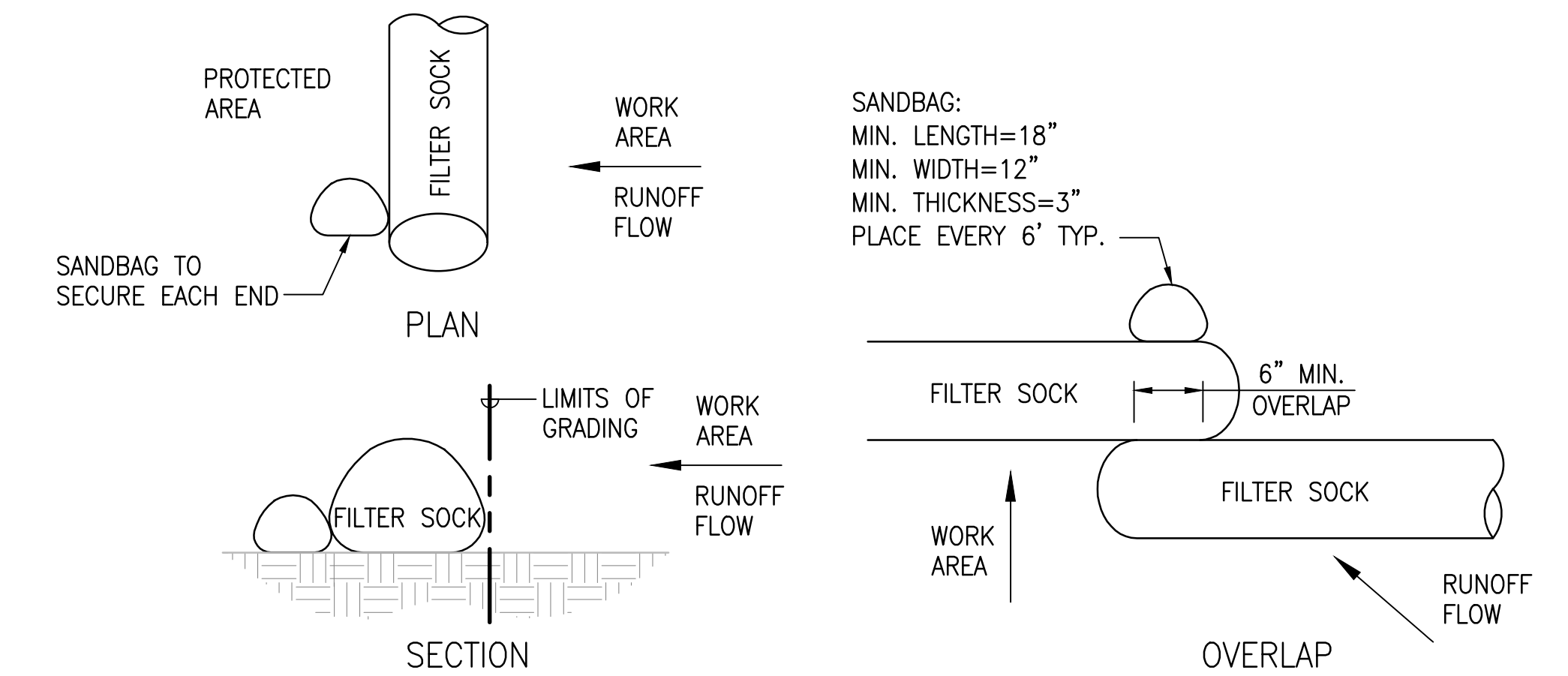
- THE CONTRACTOR SHALL OBSERVE AND COMPLY WITH ALL FEDERAL, STATE AND LOCAL LAWS REQUIRED FOR THE PROTECTION OF PUBLIC HEALTH, SAFETY AND ENVIRONMENTAL QUALITY.
- THE CONTRACTOR, AT HIS OWN EXPENSE, SHALL KEEP THE PROJECT AREA AND ITS SURROUNDING AREAS FREE FROM DUST NUISANCE. THE WORK SHALL BE IN CONFORMANCE WITH THE AIR POLLUTION CONTROL STANDARDS AND REGULATIONS OF THE STATE DEPARTMENT OF HEALTH. THE CITY MAY REQUIRE SUPPLEMENTARY MEASURES AS NECESSARY.
- NO CONTRACTOR SHALL PERFORM ANY CONSTRUCTION OPERATIONS SO AS TO CAUSE FALLING ROCKS, SOIL OR DEBRIS IN ANY FORM TO FALL, SLIDE OR FLOW INTO EXISTING CITY DRAINAGE SYSTEMS, OR ADJOINING PROPERTIES, STREETS OR NATURAL WATERCOURSES. SHOULD SUCH VIOLATION(S) OCCUR, THE CONTRACTOR MAY BE CITED AND THE CONTRACTOR SHALL IMMEDIATELY MAKE ALL REMEDIAL ACTIONS NECESSARY.
- THE CONTRACTOR SHALL PROVIDE, INSTALL AND MAINTAIN ALL NECESSARY SIGNS, LIGHTS, FLARES, BARRICADES, MARKERS, CONES, AND OTHER PROTECTIVE FACILITIES AND SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION, CONVENIENCE AND SAFETY OF THE PUBLIC. THE CONTRACTOR SHALL APPLY FOR A CONSTRUCTION PERMIT WITH A NOISE POLLUTION CONTROL PLAN.
- THE CONTRACTOR ATTENTION IS DIRECTED TO TITLE II, ADMINISTRATIVE RULES, CHAPTER 46 PUBLIC HEALTH REGULATIONS DEPARTMENT OF HEALTH, STATE OF HAWAII "COMMUNITY NOISE CONTROL" IN WHICH MAXIMUM ALLOWABLE NOISE LEVELS HAVE BEEN SET. IF THE CONSTRUCTION ACTIVITIES FOR THIS PROJECT WILL EXCEED THE ALLOWABLE NOISE LEVELS, THE CONTRACTOR WILL BE REQUIRED TO OBTAIN A PERMIT FROM THE DIRECTOR OF THE DEPARTMENT OF PUBLIC HEALTH. THE CONTRACTOR SHALL OBTAIN A COPY OF CHAPTER 46Z E AND BECOME FAMILIAR WITH THE NOISE LEVEL RESTRICTIONS AND THE PROCEDURES FOR OBTAINING A PERMIT FOR CONSTRUCTION ACTIVITIES.

BEST MANAGEMENT PRACTICES (BMP):

- AREA OF EXPOSED GROUND SHALL BE STRICTLY LIMITED.
- INSTALL FILTER SOCKS.
- DUST CONTROL SHALL BE DONE BY WATERING WITH TRUCKS OR A TEMPORARY SPRINKLER SYSTEM.
- ALL EROSION CONTROL MEASURES SHALL BE CHECKED AND REPAIRED AS NECESSARY.
- ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED BY THE CONTRACTOR AFTER COMPLETION OF THE PROJECT TO FINAL ACCEPTANCE OR AS DIRECTED BY THE ENGINEER IN THE FIELD.
- THE EROSION CONTROL (EC) AND BMP MEASURES (SHOWN ON C002) MUST BE IN PLACE PRIOR TO THE START OF GRADING WORK.
- ALL EC AND BMP MEASURES (SHOWN ON C002) SHALL BE MAINTAINED DURING CONSTRUCTION AND UNTIL PERMANENT STABILIZATION OF THE SITE.

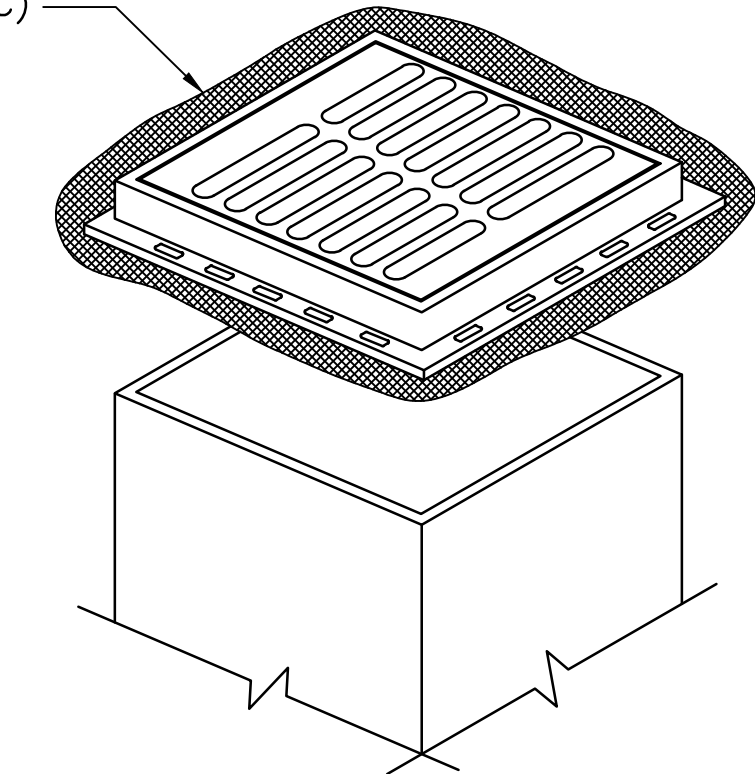
EROSION AND TEMPORARY DUST CONTROL NOTES:

- DURING CONSTRUCTION, PREVENTATIVE MEASURES SHALL BE USED TO CONTROL FORESEEABLE DUST, EROSION OR SEDIMENTATION PROBLEMS WHICH MAY ARISE AS THE JOB PROGRESSES.
- FUGITIVE DUST AND SOLID WASTE DISPOSAL DURING GRUBBING AND GRADING ACTIVITIES SHALL MEET REQUIREMENTS OF ADMINISTRATIVE RULES, TITLE II, CHAPTER 60, AIR POLLUTION CONTROL AND CHAPTER 58, SOLID WASTE MANAGEMENT CONTROL.
- THE CONTRACTOR, AT HIS OWN EXPENSE, SHALL KEEP THE PROJECT AREA AND SURROUNDING AREA FREE FROM DUST NUISANCE. THE WORK SHALL BE IN CONFORMANCE WITH THE AIR POLLUTION CONTROL STANDARD AND REGULATIONS OF THE STATE DEPARTMENT OF HEALTH, THE CITY MAY REQUIRE SUPPLEMENTARY MEASURES AS NECESSARY.



1 FILTER SOCK DETAIL
C01 NOT TO SCALE

STORM DRAIN INLET PROTECTION (WRAP INLET GRATE IN GEOTEXTILE FABRIC)



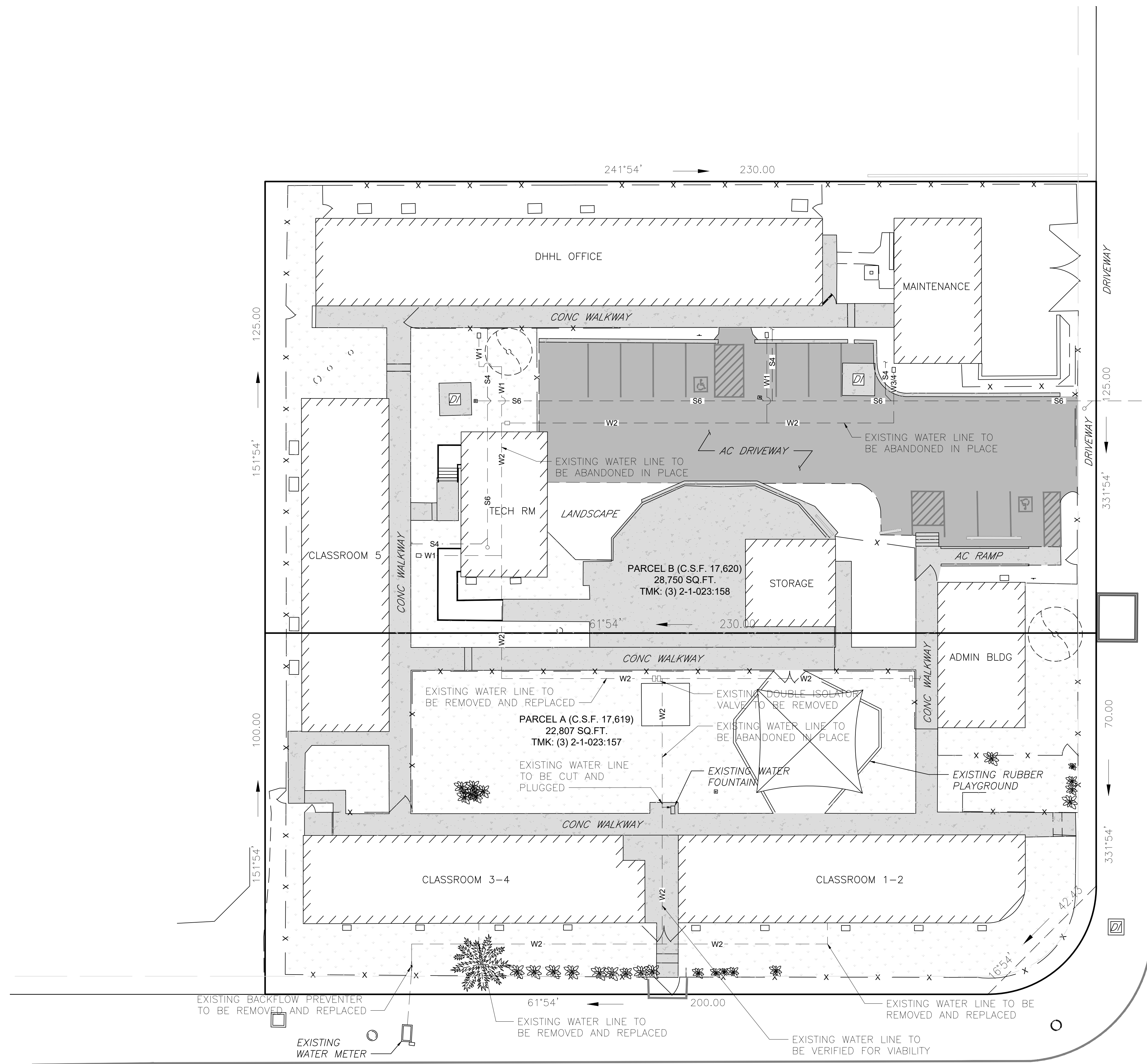
2 INLET PROTECTION DETAIL
C01 NOT TO SCALE

APPROVED :

CHIEF, CIVIL ENGINEERING BRANCH DATE
DEPARTMENT OF PLANNING AND PERMITTING

REVISION NO.	DATE	REVISIONS	BY
DEPARTMENT OF HAWAIIAN HOME LANDS			
EAST HAWAII DISTRICT OFFICE UTILITY IMPROVEMENTS			
162 BAKER AVE., HILO, HI 96720 T.M.K.: (3) 2-1-023:157 & 158			
WATER NOTES & BMP NOTES/DETAILS			
DESIGNED BY:	GS	 Civil & Structural Engineers 1088 BISHOP STREET #2506 HONOLULU, HI 96813 Tel: 808-533-2092	JOB NO.
DRAWN BY:	DL		24-096
CHECKED BY:	GS		SHEET
SUPV:			C01
DATE:	05/01/26	2 OF 5 SHEETS	

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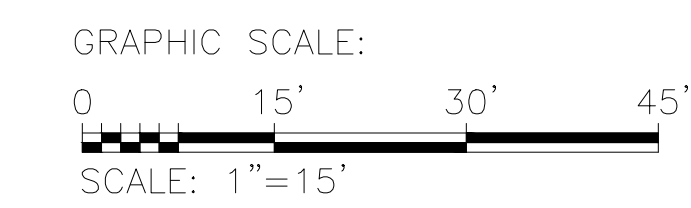


- LEGEND:
- PROPERTY LINE/ROW
 - W3/4- EXISTING 3/4" WATER LINE
 - W1- EXISTING 1" WATER LINE
 - W2- EXISTING 2" WATER LINE
 - S4- EXISTING 4" SEWER LINE
 - S6- EXISTING 6" SEWER LINE
 - x EXISTING CHAINLINK FENCE
 - EXISTING BUILDING WALL
 - EXISTING A.C. PAVEMENT
 - EXISTING CONCRETE
 - GRASS

BAKER AVENUE

TODD AVENUE

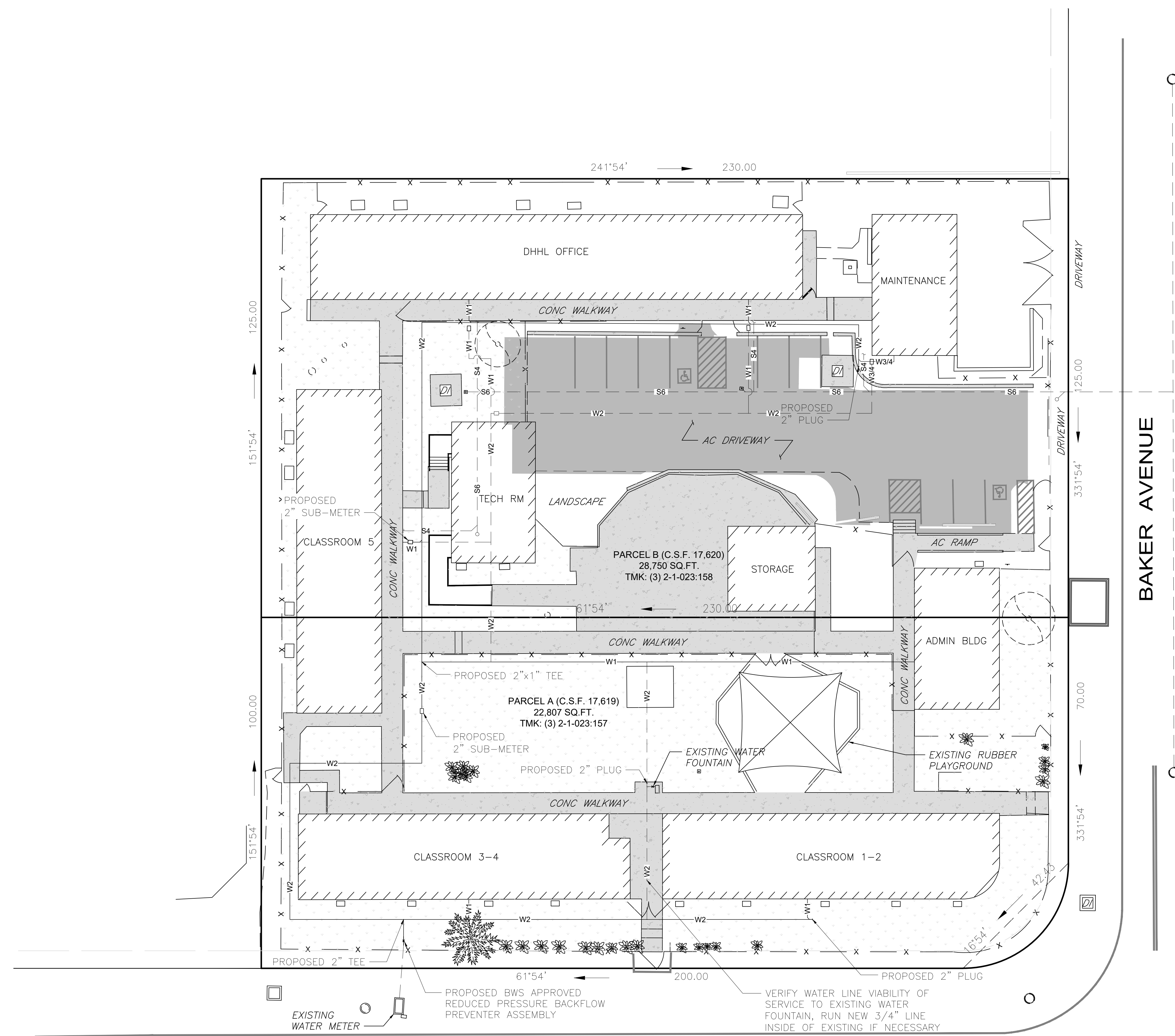
1 EXISTING SITE AND DEMOLITION PLAN
 C02 SCALE: 1" = 15'



APPROVED : _____
 CHIEF, CIVIL ENGINEERING BRANCH
 DEPARTMENT OF PLANNING AND PERMITTING

REVISION NO.	DATE	REVISIONS	BY
DEPARTMENT OF HAWAIIAN HOME LANDS EAST HAWAI'I DISTRICT OFFICE UTILITY IMPROVEMENTS 162 BAKER AVE., HILO, HI 96720 T.M.K.: (3) 2-1-023:157 & 158			
EXISTING SITE AND DEMOLITION PLAN			
DESIGNED BY:	GS		JOB NO.
DRAWN BY:	DL		24-096
CHECKED BY:	GS		SHEET
DATE:	05/01/26		C02
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION			
3 OF 5 SHEETS			

NOTES:
ALL PIPES SHALL BE C-900 PVC

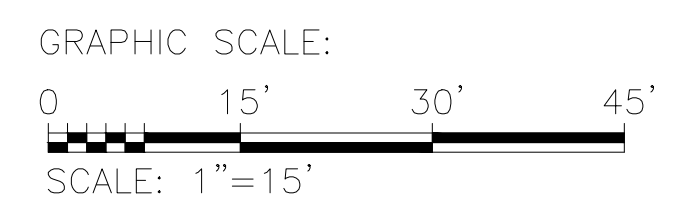
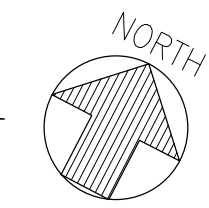


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 - W3/4- PROPOSED 3/4" WATER LINE
 - W1- PROPOSED 1" WATER LINE
 - W2- PROPOSED 2" WATER LINE
 - EXISTING BUILDING WALL
 - EXISTING A.C. PAVEMENT
 - EXISTING CONCRETE
 - GRASS

BAKER AVENUE

TODD AVENUE

1 REVISED SITE UTILITY PLAN
C03 SCALE: 1" = 15'



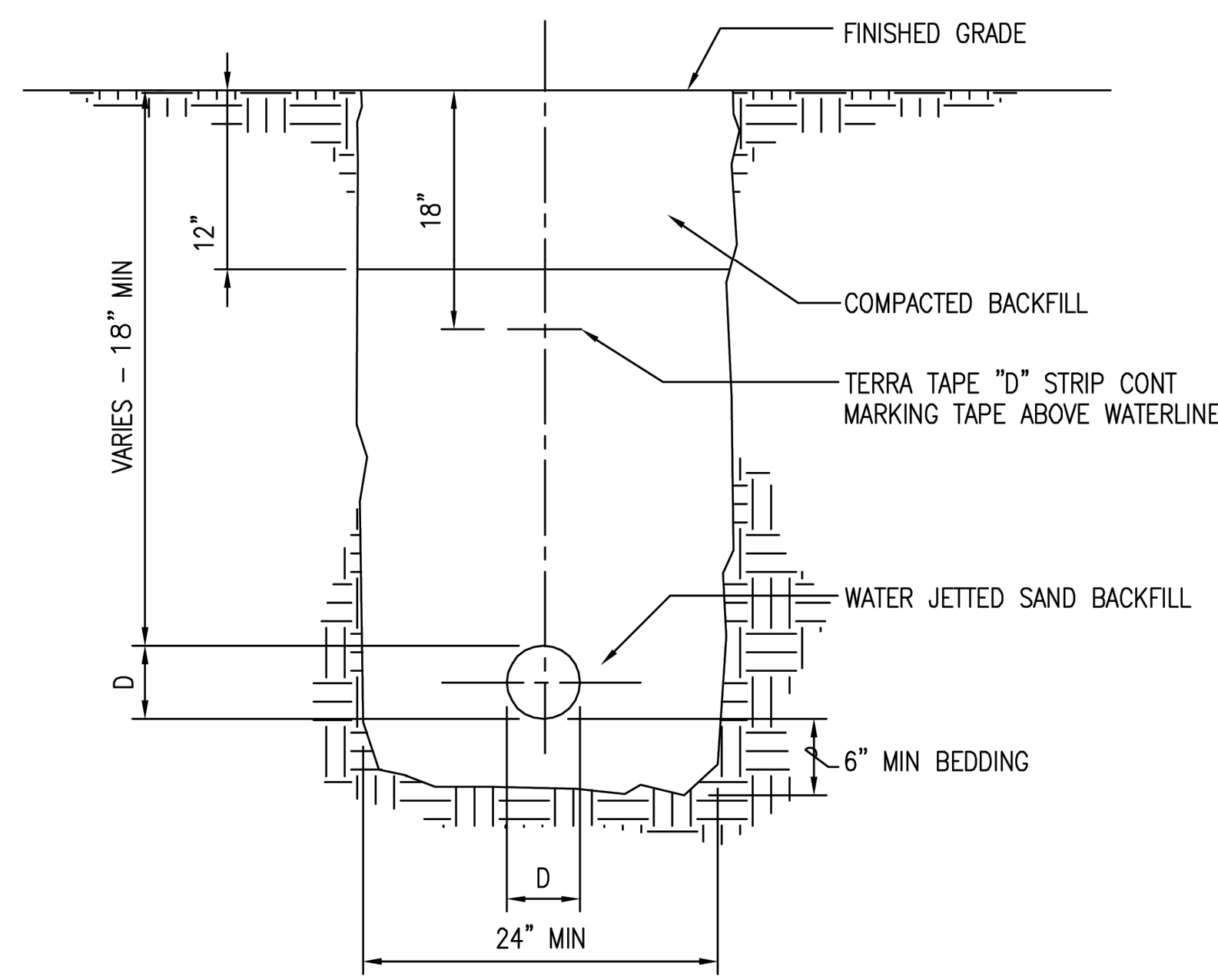
APPROVED : _____
CHIEF, CIVIL ENGINEERING BRANCH
DEPARTMENT OF PLANNING AND PERMITTING

REVISION NO.	DATE	REVISIONS	BY

DEPARTMENT OF HAWAIIAN HOME LANDS
EAST HAWAI'I DISTRICT OFFICE
UTILITY IMPROVEMENTS
 162 BAKER AVE., HILO, HI 96720
 T.M.K.: (3) 2-1-023:157 & 158

SITE UTILITY PLAN

DESIGNED BY: GS	 HAWAIIAN ENGINEERING GROUP, Inc. Civil & Structural Engineers 1088 BISHOP STREET #2506 HONOLULU, HI 96813 Tel: 808-533-2092	JOB NO. 24-096
DRAWN BY: DL		
CHECKED BY: GS		
SIP#		
DATE: 05/01/26	THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION	SHEET C03 4 OF 5 SHTS

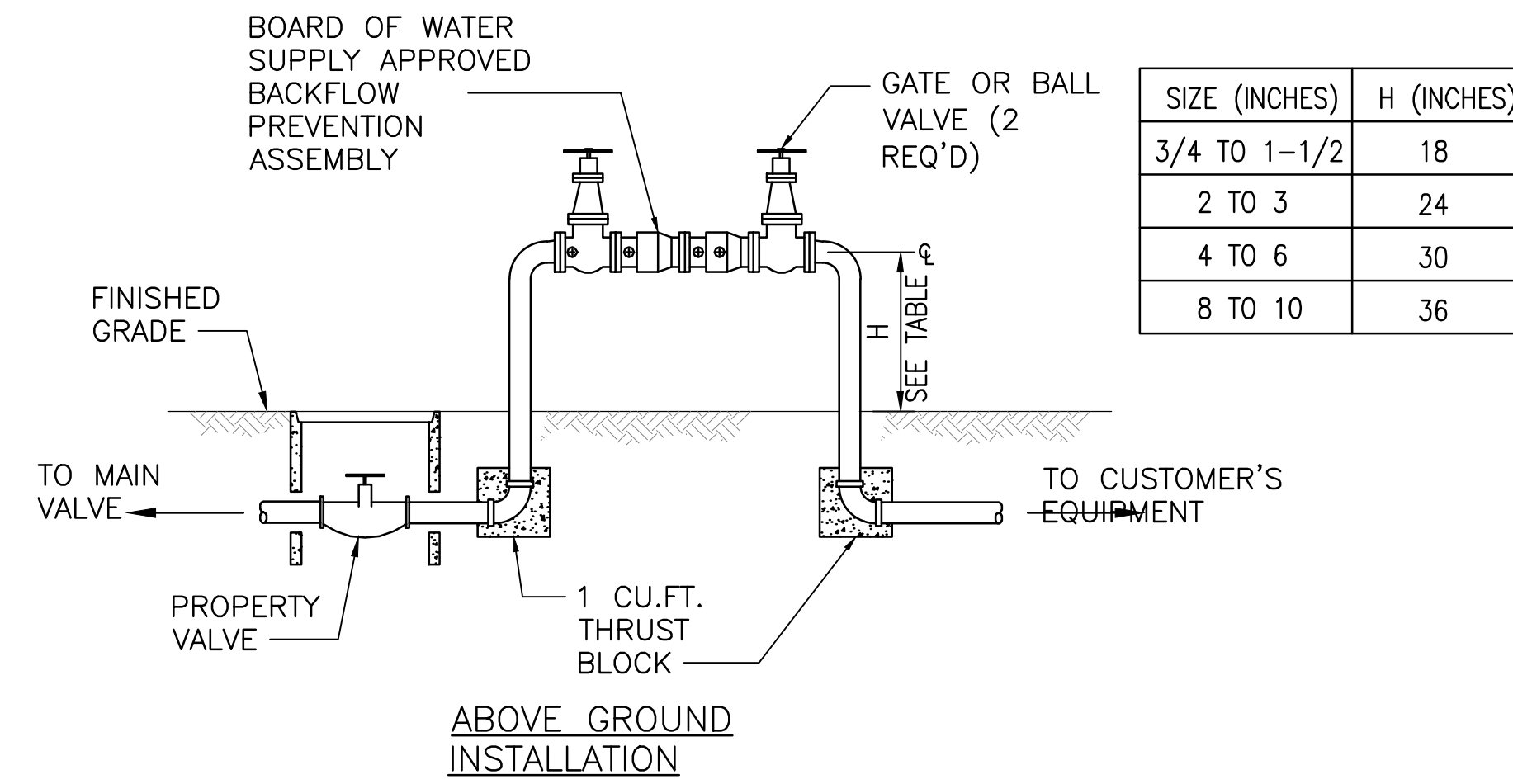


TYPICAL PVC WATERLINE TRENCH

NOTE FOR PVC WATER MAIN

1. A MIN OF 3 FEET OF COVER SHALL BE MAINTAINED AT ALL TIMES.
2. BACKFILL MATERIAL SHALL BE SAND ONLY; WATER JETTED TO WITHIN 12" OF FINISHED GRADE.
3. NO DIRECT TAPS SHALL BE PERMITTED. ALL TAPS SHALL BE WITH THE USE OF BRONZE, DOUBLE STRAP SERVICE SADDLES.
4. ALL OTHER CONDITIONS FOR PIPELINE INSTALLATIONS REMAIN AS SPECIFIED.
5. ONLY C.I. FITTINGS SHALL BE USED FOR ALL BENDS, REDUCERS, ETC. WITH PVC ENDS OR MJ ENDS.

1 TYP. PVC WATERLINE TRENCH (NON-PAVED AREA)
C04 NOT TO SCALE

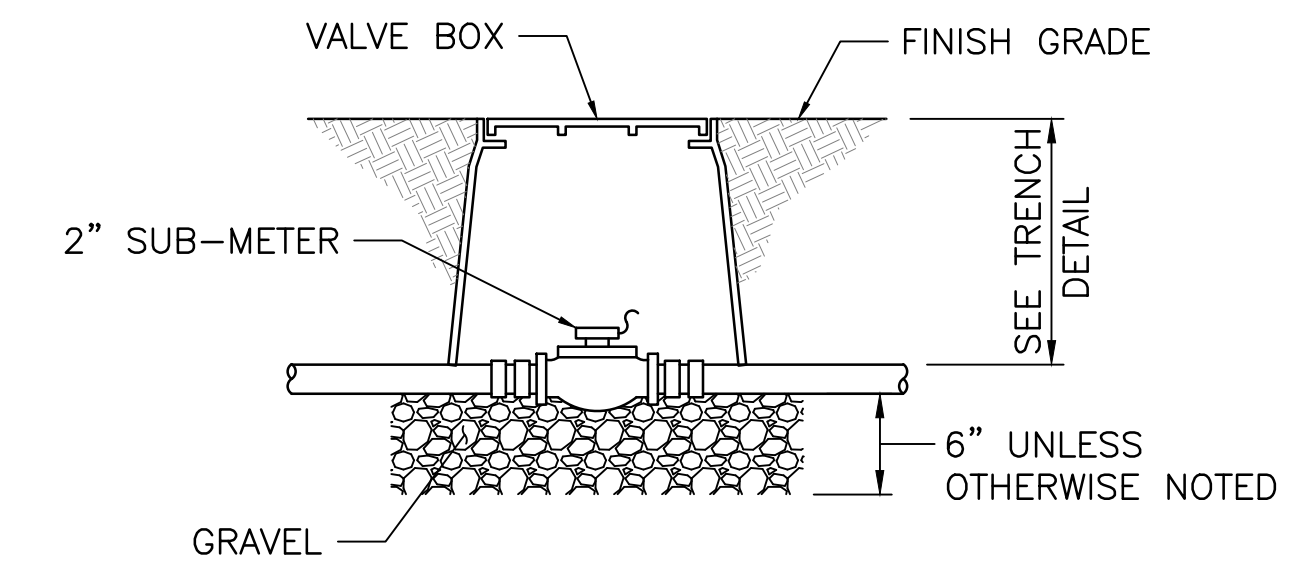


ABOVE GROUND INSTALLATION

NOTES:

1. THE BACKFLOW PREVENTION ASSEMBLY MUST BE INSTALLED AFTER THE METER AND THE PROPERTY VALVE PRIOR TO ANY BRANCHES OR TEES.
2. THE PLANS MUST ALSO REFLECT THE FOLLOWING CALLOUT " BOARD OF WATER SUPPLY APPROVED REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY" OR REFER TO A SPECIFIC MAKE AND MODEL OF A BOARD OF WATER SUPPLY APPROVED BACKFLOW PREVENTION ASSEMBLY. (WHICHEVER IS APPLICABLE)
3. AT NO TIME SHALL THE BOTTOM OF THE ASSEMBLY BE LESS THAN 12 INCHES ABOVE GROUND, FLOOR, OR FLOOD LEVEL NOR MORE THAN 48 INCHES ABOVE AFOREMENTIONED GRADES. (BWS APPROVAL REQUIRED FOR EXEMPTION TO INSTALLATION HEIGHT RESTRICTIONS)
4. THE PLANS MUST SHOW THE BACKFLOW PREVENTION ASSEMBLY IN RELATION TO THE WATER METER, PROPERTY VALVE, AND ANY BRANCHES IN THE VICINITY.

2 REDUCED PRESSURE BACKFLOW PREVENTER DETAIL
C04 NOT TO SCALE



3 WATERLINE SUB-METER
C04 NOT TO SCALE

APPROVED :

CHIEF, CIVIL ENGINEERING BRANCH DATE
DEPARTMENT OF PLANNING AND PERMITTING

REVISION NO.	DATE	REVISIONS	BY
DEPARTMENT OF HAWAIIAN HOME LANDS EAST HAWAI'I DISTRICT OFFICE UTILITY IMPROVEMENTS 162 BAKER AVE., HILO, HI 96720 T.M.K.: (3) 2-1-023:157 & 158 WATER DETAILS			
DESIGNED BY:	GS	 HAWAII ENGINEERING GROUP, Inc. Civil & Structural Engineers 1088 BISHOP STREET #2506 HONOLULU, HI 96813 Tel: 808-533-2092	JOB NO.
DRAWN BY:	DL		24-096
CHECKED BY:	GS		SHEET
SUPV:			C04
DATE:	05/01/26		5 OF 5 SHEETS

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION