

GENERAL NOTES:

- THE EXISTING CONDITIONS SHOWN ON THE PLANS HAVE BEEN BASED UPON RECORD DRAWINGS WHICH ARE LIMITED IN ACCURACY. THE CONTRACTOR SHALL INSPECT THE PROJECT SITE BEFORE PROCEEDING WITH THE WORK AND SHALL NOTIFY AND COORDINATE WITH THE ENGINEER FOR ANY MAJOR DEVIATIONS OR DISCREPANCIES DISCOVERED IN THE PLANS AND SPECIFICATIONS DUE TO UNFORESEEN OR VARYING FIELD CONDITIONS.
- THE ENTIRE INSTALLATION SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF THE BUILDING CODE OF THE CITY AND COUNTY OF HILO, STATE DEPARTMENT OF HEALTH REGULATIONS, THE CURRENT VERSION OF THE UNIFORM PLUMBING CODE, UNIFORM FIRE CODE, ASME PRESSURE PIPING CODE, HAWAII STATE MODEL ENERGY CODE AND ALL OTHER AGENCIES HAVING JURISDICTION.
- THE CONTRACTOR SHALL PROVIDE ALL MATERIAL AND EQUIPMENT INCLUDING CUTTING AND PATCHING AS REQUIRED FOR COMPLETE AND OPERATING SYSTEMS. "PROVIDE" SHALL MEAN TO PROCURE ALL NECESSARY AND SPECIFIED MATERIALS AND INSTALL A COMPLETE WORKING INSTALLATION AS REFERENCED ON CONSTRUCTION DRAWINGS.
- THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO COVER THE COMPLETE INSTALLATION OF SYSTEMS TO FUNCTION AS DESCRIBED AND SPECIFIED. THE OMISSION OF REFERENCE TO ANY NECESSARY ITEM OF LABOR OR MATERIAL SHALL NOT RELIEVE THE CONTRACTOR FROM PROVIDING SUCH LABOR AND MATERIAL.
- SHOULD PROJECT CONDITIONS REQUIRE REARRANGEMENT OF WORK, THE CONTRACTOR SHALL MARK SUCH CHANGES ON RECORD DRAWINGS. IF THESE CHANGES REQUIRE ALTERNATE METHODS TO THOSE APPROVED BY THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING THE PROPOSED ALTERNATE METHODS TO THE ENGINEER FOR APPROVAL. THE CONTRACTOR SHALL NOT PROCEED UNTIL APPROVAL IS OBTAINED.
- CONTRACTOR SHALL COORDINATE ALL UTILITY SHUTDOWNS WITH REQUIREMENTS SPECIFIED BY THE HILO BASEYARD MAINTENANCE STAFF A MINIMUM OF 72 HOURS PRIOR TO THE WORK AND SHALL RECEIVE WRITTEN APPROVAL FROM HILO BASEYARD MANAGER TO PROCEED WITH THE SHUTDOWN.
- PATCH AND PAINT ALL EXPOSED MATERIALS INCLUDING DUCTWORK TO MATCH ADJACENT SURFACES OR AS INDICATED.
- ALL EQUIPMENT SHALL BE CAPABLE OF FITTING INTO THE SPACES ALLOCATED. THE CONTRACTOR SHALL REVIEW ALL SPACES WHERE EQUIPMENT IS TO BE INSTALLED PRIOR TO ORDERING OF EQUIPMENT AND SHALL NOTIFY THE ENGINEER OF ANY INADEQUATE CLEARANCES OR CONDITIONS THAT WILL PREVENT THE PROPER INSTALLATION AND OPERATION OF THE EQUIPMENT.
- CONTRACTOR SHALL COORDINATE ALL WORK WITH THE OVERALL PHASING PLAN.
- CONTRACTOR SHALL VERIFY ALL POC'S PRIOR TO INSTALLING NEW WORK.

11. PLUMBING:

- WATER PIPING: TYPE "L" COPPER TUBING, HARD TEMPER COLD DRAWN WITH CAST BRONZE OR WROUGHT COPPER SOLDER WIRE FITTINGS, 95/5 SOLDER. USE TYPE "K" FOR BELOW GRADE PIPING.
- SOIL, WASTE AND VENT PIPING: SERVICE WEIGHT CAST-IRON, NO-HUB SOIL PIPE.
- VALVES FOR WATER SERVICE: BRONZE BODY, SOLDER JOINT, STOCKHAM, NIBCO, CRANE, LUNKENHEIMER PRESSURE RATED VALVES.
- DRAINAGE SPECIALTIES: JOSAM, ZURN OR SMITH.
- PLUMBING FIXTURES: SEE PLUMBING FIXTURE SCHEDULE ON DRAWINGS.

- TEST: TEST SOIL, WASTE AND VENT PIPING IN ACCORDANCE WITH THE PLUMBING CODE. PRIOR TO CONCEALING, HYDROSTATICALLY TEST THE WATER, REPAIR ALL LEAKS.
- CHLORINATE ALL WATER PIPING WITH 50 PPM DOSAGE FOR 24 HOURS. FLUSH UNTIL RESIDUAL S LESS THAN 1.0 PPM. BACTERIOLOGICAL TESTS AFTER TWO DAYS TO CERTIFY ABSENCE OF POLLUTION.
- WATER SUPPLY SHALL COMPLY WITH UPC SECTION 1010 WATER CONSERVATION CODE.

13. WARRANTY:

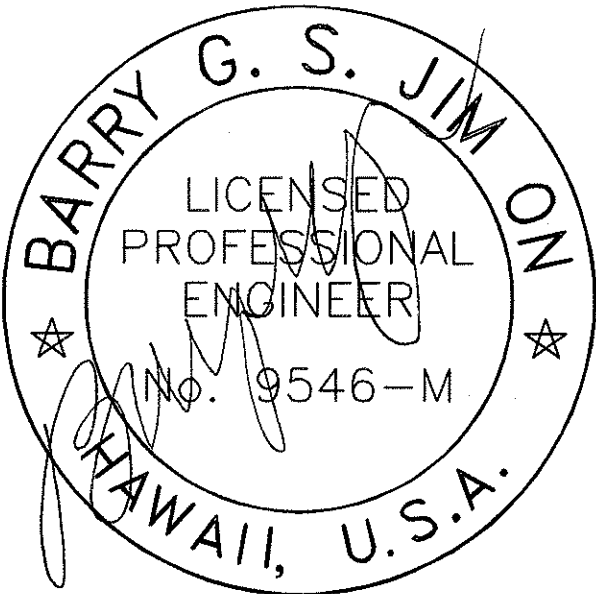
- ALL WORK IN THIS SECTION SHALL BE UNDER WARRANTY FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE OF THE WORK AS A WHOLE BY THE ENGINEER. SHOULD ANY EQUIPMENT OR MATERIAL FAIL WITHIN THIS PERIOD, THE CONTRACTOR SHALL REPLACE/REPAIR THAT ITEM AT NO COST TO THE OWNER FOR MATERIAL AND/OR SERVICES, IF SUCH IS DUE TO FAULTY WORKMANSHIP OR QUALITY OF MATERIAL FURNISHED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE TO ANY PART OF THE PREMISES CAUSED BY FAILURE IN THE EQUIPMENT UNDER THIS SECTION FOR A PERIOD OF ONE YEAR AFTER THE FINAL ACCEPTANCE OF THE WORK AS A WHOLE.

PLUMBING LEGEND

| SYMBOL | ABBRV. | DESCRIPTION |
|-----------|--------|---------------------|
| — — — — — | CW | COLD WATER |
| | DF | DRINKING FOUNTAIN |
| | EXIST. | EXISTING |
| — — — — — | HW | HOT WATER |
| — + — — — | POC | POINT OF CONNECTION |
| — + / / / | POR | POINT OF REMOVAL |
| — — — — — | S OR W | SOIL OR WASTE |
| | SK | SINK |
| - - - - - | V | VENT |
| | | |
| | | |

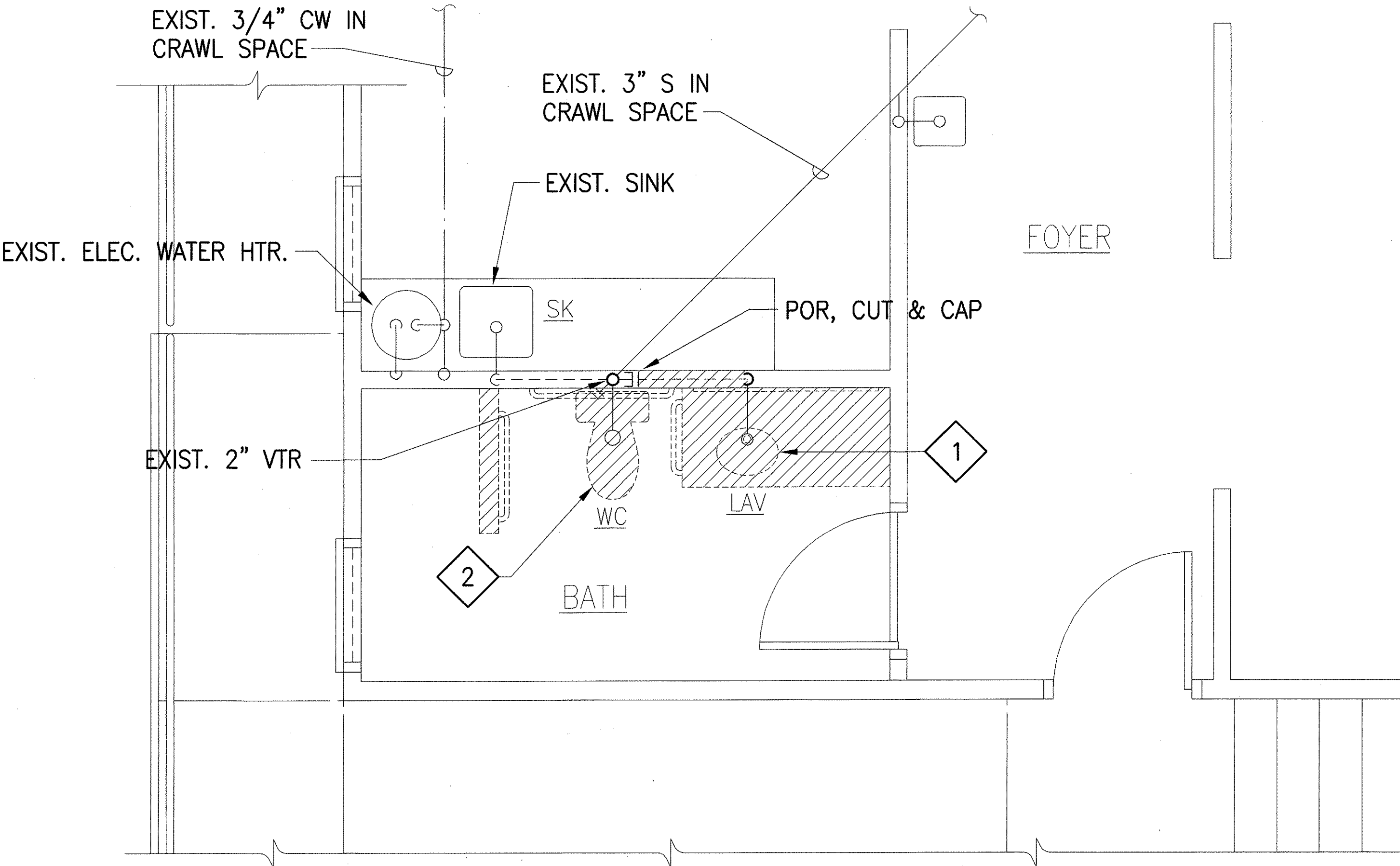
| FED. ROAD DIST. NO. | STATE | PROJECT NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|--------|--------------|-------------|-----------|--------------|
| HAWAII | HAWAII | HWY-H-05-05M | 2005 | 14 | 17 |

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| ORIGINAL PLAN | SURVEY PLOTTED BY | DATE |
| NOTE BOOK | DRAWN BY | |
| | TRACED BY | |
| | REVIEWED BY | |
| | QUANTITIES BY | |
| | CHECKED BY | |
| No. | | |



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| STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION GENERAL NOTES & LEGEND HILO BASEYARD FACILITY ADA Improvements | |
| DWG. NO. P0.1 | SCALE: AS NOTED DATE: 03/07/05 SHEET NO. 15 OF 17 SHEETS |

| FED. ROAD DIST. NO. | STATE | PROJECT NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|--------|--------------|-------------|-----------|--------------|
| HAWAII | HAWAII | HWY-H-05-05M | 2005 | 15 | 17 |



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PLUMBING DEMOLITION PLAN

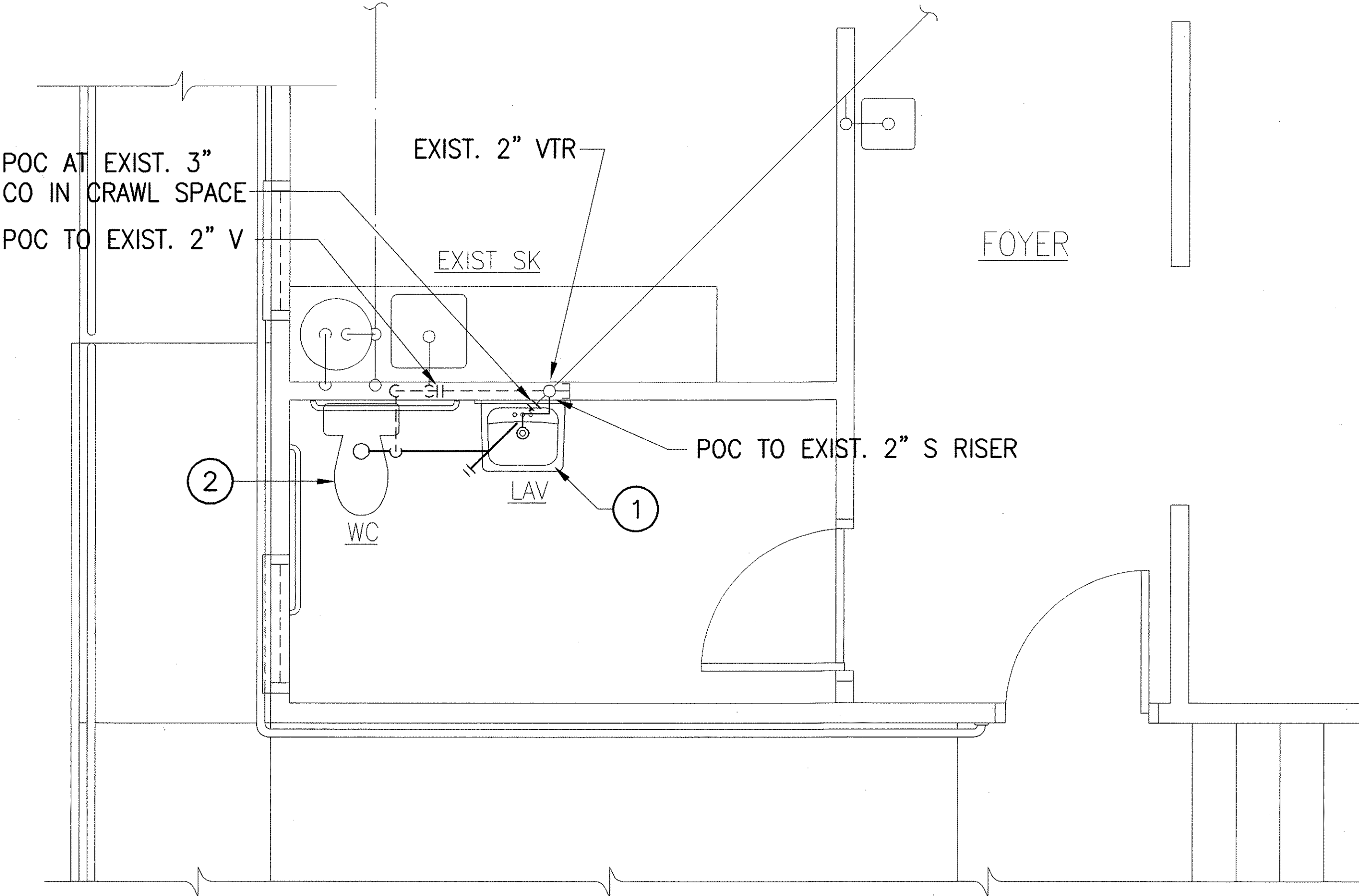
SCALE: $\frac{1}{4}'' = 1'-0''$
 $\frac{1}{2}''$

DEMOLITION KEY NOTES:

- 1 REMOVE EXISTING LAVATORY & FIXTURES. REMOVE EXISTING WASTE PIPE BELOW FLOOR AND CAP. REMOVE EXISTING WATER CONNECTIONS INTO WALL SPACE. CUT & CAP AS REQUIRED.
- 2 REMOVE EXISTING WATERCLOSET. REMOVE EXISTING CLOSET BEND PIPING AND CAP AT VENT PIPE RISER. EXISTING VENT PIPING TO REMAIN. CUT & CAP EXISTING WATER PIPING IN WALL SPACE.

NEW WORK KEY NOTES:

- 1 PROVIDE NEW LAVATORY, SUPPORTS AND FIXTURES. CONNECT NEW WATER AND WASTE TO EXISTING.
- 2 PROVIDE NEW WATERCLOSET. CONNECT NEW WASTE PIPING BELOW SLAB. CONNECT NEW WATER PIPING TO EXISTING. PROVIDE WITH RIGHT TRIP LEVER FOR WATERCLOSET.



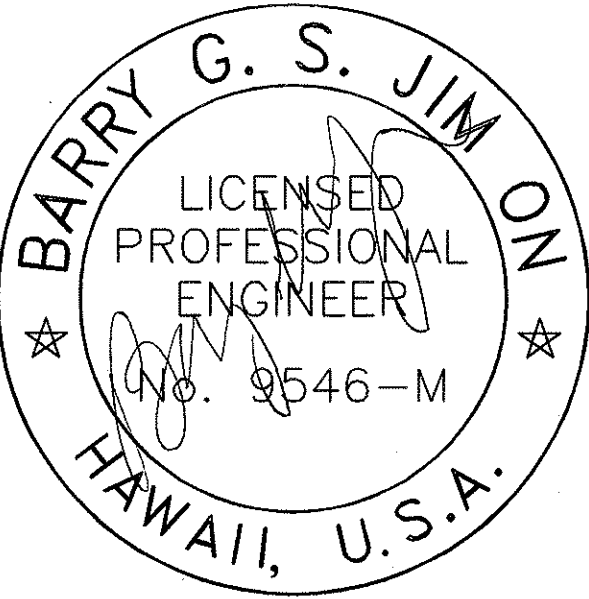
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P1.1

PLUMBING NEW WORK PLAN

SCALE: $\frac{1}{4}'' = 1'-0''$
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| ORIGINAL PLAN | SURVEY PLOTTED BY | DATE |
| NOTE BOOK | DRAWN BY | |
| No. | DESIGNED BY | |
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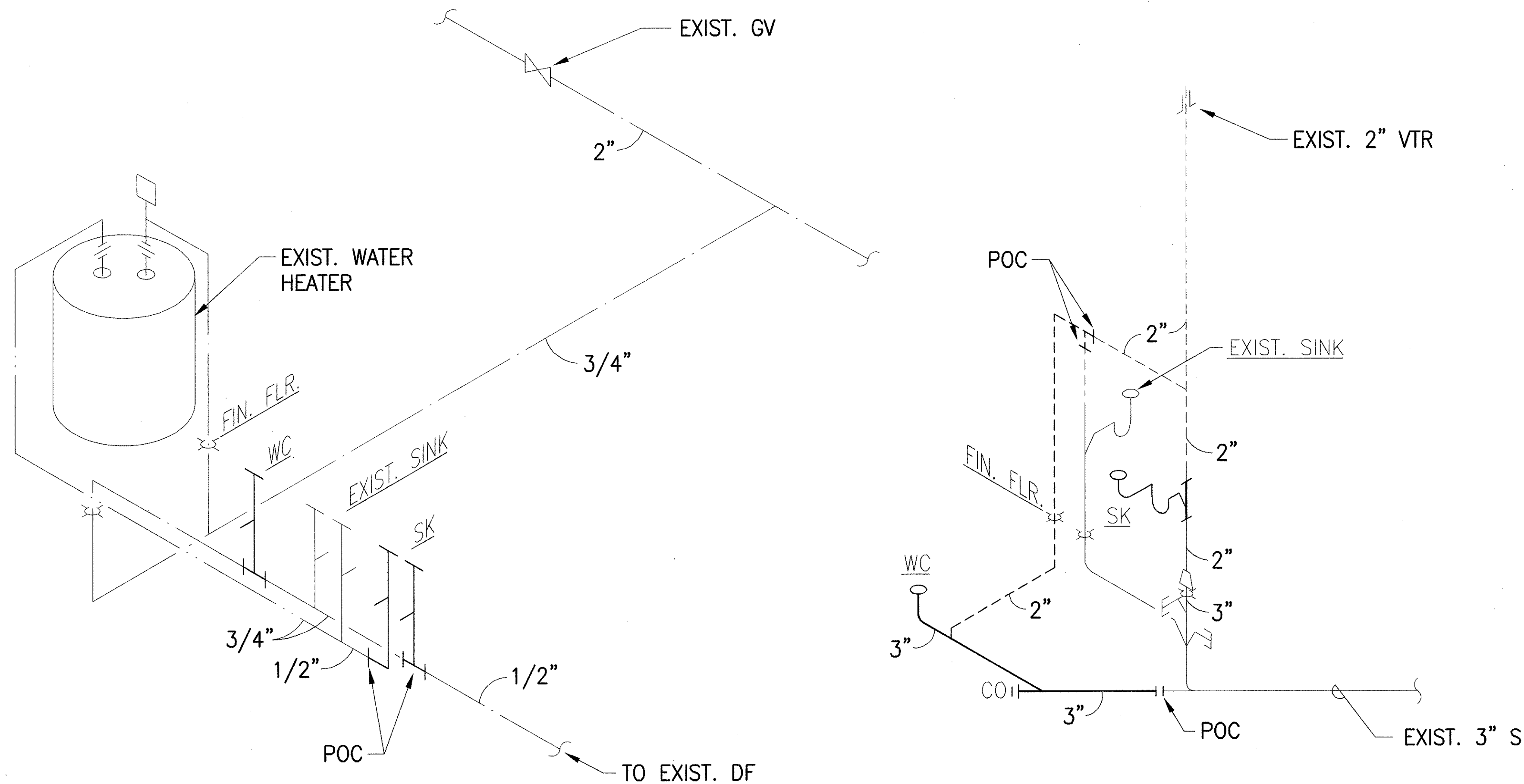
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| STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION | |
| PLUMBING DEMOLITION & NEW WORK PLANS & KEY NOTES | |
| HILO BASEYARD FACILITY ADA Improvements | |
| SCALE: AS NOTED | DATE: 03/07/05 |
| DWG. NO. P1.1 | SHEET NO. 16 OF 17 SHEETS |

"AS-BUILT"

PLUMBING FIXTURE SCHEDULE

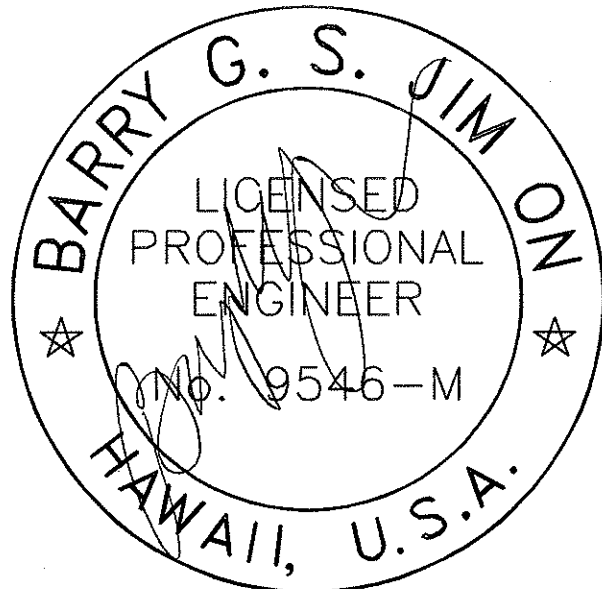
| FIXTURE ABBREV. | TYPE OF FIXTURE | DRAINAGE (IN.) | | WATER (IN.) | | REMARKS |
|-----------------|--------------------------------------|----------------|-------|-------------|-----|---|
| | | WASTE/SANITARY | VENT | CW | HW | |
| WC | WATERCLOSET; FLUSH TANK - ACCESSIBLE | 3 | 2 | 1/2 | - | KOHLER WELLWORTH COMFORT HEIGHT K-3481 FLUSH TANK TOILET; K-4278 ELONGATED BOWL; K-4620 VITREOUS CHINA TANK 1.6 GALLONS PER FLUSH; K-7637 3/8" ANGLE SUPPLY; K-4664 TOILET SEAT; K-9440-R RIGHT HAND TRIP LEVER. |
| LAV | LAVATORY; WALL MOUNTED - ACCESSIBLE | 2 | 1-1/2 | 1/2 | 1/2 | KOHLER K-2006 KINGSTON VITREOUS CHINA WALL MOUNTED ACCESSIBLE LAVATORY; K-13344 WIDESPREAD LAVATORY FITTINGS W/ 4" WRIST BLADE HANDLES, INDEXED "C" MODIFIED W/ IPS GOOSENECK SPOUT - 2.0 GPM MAX; K-13885 PLUG W/ INTEGRAL STRAINER; K-8998 CHROME PLATED CAST BRASS P-TRAP W/ K-13885 OFFSET DRAIN; K-7605-P 3/8" ANGLE SUPPLY; SMITH 700-27-M31 LAVATORY CARRIER W/ CONCEALED ARMS W/ LEVELING SCREWS; PROVIDE W/ SAFETY COVERS. |

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| HAWAII | HAWAII | HWY-H-05-05M | 2005 | 15 | 17 |



1 WATER PIPING DIAGRAM
P1.2 NTS

2 SANITARY PIPING DIAGRAM
P1.2 NTS



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|---|---------------------------|
| STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION | |
| PLUMBING FIXTURE SCHEDULE & DIAGRAMS HILO BASEYARD FACILITY ADA Improvements | |
| SCALE: AS NOTED | DATE: 03/07/05 |
| DWG. NO. P1.2 | SHEET NO. 17 OF 17 SHEETS |