



PLUMBING GENERAL NOTES:

1. ASBULTS DO NOT EXIST FOR THE BUILDING. THE EXISTING CONDITIONS SHOWN ON THE PLANS HAVE BEEN BASED UPON OBSERVATIONS MADE DURING THE SITE VISIT. 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.
2. THE ENTIRE INSTALLATION SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF THE BUILDING CODE OF THE CITY AND COUNTY OF HONOLULU, THE STATE HEALTH DEPARTMENT REGULATIONS, THE LATEST EDITION OF THE UNIFORM PLUMBING CODE, HAWAII STATE MODEL ENERGY CODE, NFPA 13, AND ALL AGENCIES HAVING JURISDICTION.
3. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIAL AND EQUIPMENT INCLUDING CUTTING AND PATCHING AS REQUIRED FOR A COMPLETE AND OPERATING SYSTEM.
4. 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.
5. DRAWINGS DO NOT ATTEMPT TO SHOW EXACT DETAILS OF PIPING, AND EXISTING CONDITIONS. PROVIDE OFFSETS AS NECESSARY TO AVOID EXISTING OBSTRUCTIONS OR INTERFERENCE WITH OTHER TRADES. THE CONTRACTOR SHALL REVIEW ALL PIPING RUNS PRIOR TO FABRICATION AND SHALL NOTIFY THE ENGINEER OF ANY INTERFERENCE AND/ OR LACK OF ADEQUATE CLEARANCES IMMEDIATELY.
6. 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.
7. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, FEES, LICENSES AND INSPECTIONS.
8. SUBMIT FOR REVIEW SIX COPIES OF MANUFACTURER'S LITERATURE ON ALL ITEMS FURNISHED FOR THIS WORK, INCLUDING OPERATION AND MAINTENANCE MANUALS.
9. INSTALL ALL EQUIPMENT AND MATERIALS IN A FIRST CLASS MANNER CONFORMING TO RECOGNIZED COMMERCIAL STANDARDS.
10. CONTRACTOR SHALL PATCH AND FINISH ALL EXPOSED MATERIALS AND NEW CONSTRUCTION TO MATCH EXISTING SURFACES OR AS INDICATED.
11. ALL PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS OR PARTITIONS SHALL BE PROPERLY FIRESTOPPED WITH APPROVED MATERIALS APPROPRIATE FOR THE PENETRATION TYPE.
12. PROVIDE ACCESS PANELS TO ALL CONCEALED VALVES, DAMPERS, AND EQUIPMENT. PANELS SHALL BE MILCOR OR EQUAL. COORDINATE THE LOCATION OF ACCESS PANELS TO ENSURE THAT THE EQUIPMENT CAN BE MAINTAINED ADEQUATELY.
13. PLUMBING:

A. 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.

A. SOIL, WASTE AND VENT PIPING: SERVICE WEIGHT CAST-IRON, NO-HUB SOIL PIPE.

B. VALVES FOR WATER SERVICE: BRONZE BODY, SOLDER JOINT, STOCKHAM, NIBCO, CRANE, LUNKENHEIMER PRESSURE RATED VALVES.

C. PLUMBING FIXTURES: (PROVIDE CHROME PLATED STOPS FOR EACH FIXTURE)

1) ACCESSIBLE FLOOR MOUNTED WATER CLOSET, FLUSH VALVE TYPE: AMERICAN STANDARD 2857.128 OR ACCEPTED EQUIVALENT, VITREOUS CHINA SIPHON JET ELONGATED TOILET, WHITE, WITH 1-1/2" SPUD; AMERICAN STANDARD MODEL 6047.121.128 FLUSH VALVE WITH VACUUM BREAKER OR ACCEPTED EQUIVALENT; SOLID PLASTIC OPEN FRONT SEAT WITHOUT COVER WITH SELF-SUSTAINING CHECK HINGE; CHINA BOLT CAPS; WAX GASKET.

2) ACCESSIBLE LAVATORY, WALL HUNG: KOHLER K-2030 OR ACCEPTED EQUIVALENT, 20" X 18" VITREOUS CHINA WALL HUNG LAVATORY WITH 8" CENTERS; K-7436-T OR ACCEPTED EQUIVALENT, CHROME PLATED FAUCET WITH AERATOR, FLEXIBLE CONNECTORS, COUPLING NUTS, POP-UP DRAIN WITH 1-1/4" TAILPIECE; CHROME PLATED P-TRAP, OUTLET, AND WALL FLANGE; COMPRESSION ANGLE STOP VALVES; SMITH 700-M31 OR ACCEPTED EQUIVALENT, FLOOR MOUNTED LAVATORY SUPPORT WITH CONCEALED ARMS.

3) ACCESSIBLE WALL MOUNTED URINAL: AMERICAN STANDARD MODEL 6590.001EC OR ACCEPTED EQUIVALENT, WHITE VITREOUS CHINA, ELONGATED 14-INCH RIM FROM FINISHED WALL, EXTENDED SIDES FOR PRIVACY; AMERICAN STANDARD 6045.101.002 OR ACCEPTED EQUIVALENT MANUAL FLUSH VALVE, 1.0 GPF.

4) HOSE BIBB: ARROWHEAD 351-BFP-LK ROUGH BRASS, 3/4" WITH NONREMOVABLE VACUUM BREAKER.

5) NOZZLE: FLOODJET NOZZLE 3/8K-30 OR ACCEPTED EQUIVALENT, BRASS, 3/8" INLET CONNECTION; ADJUSTBALE BALL FITTING SPRAYING SYSTEMS CO. 36275-3/8X3/8 OR ACCEPTED EQUIVALENT, BRASS.

- E. COORDINATE CONNECTIONS TO EQUIPMENT SUPPLIED BY OTHERS AND MAKE ALL CONNECTIONS FOR CW, HW, DRAIN AND WASTE PIPING.
- F. TEST: TEST SOIL, WASTE AND VENT PIPING IN ACCORDANCE WITH THE PLUMBING CODE. PRIOR TO CONCEALING, HYDROSTATICALLY TEST THE WATER, REPAIR ALL LEAKS
- G. CHLORINATE ALL WATER PIPING WITH 50 PPM DOSAGE FOR 24 HOURS. FLUSH UNTIL RESIDUAL IS LESS THAN 1.0 PPM. BACTERIOLOGICAL TESTS AFTER TWO DAYS TO CERTIFY ABSENCE OF POLLUTION.
- H. HOSE BIBBS SHALL HAVE NON-REMOVABLE VACUUM BREAKERS.
14. WARRANTY:

A. 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.

B. 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 ON ONE YEAR AFTER THE FINAL ACCEPTANCE OF THE WORK AS A WHOLE.

CITY AND COUNTY OF HONOLULU
REVISED ORDINANCES OF HONOLULU 1990
CHAPTER 32

TO THE BEST OF MY KNOWLEDGE, THIS PROJECT'S DESIGN SUBSTANTIALLY CONFORMS TO THE BUILDING ENERGY CONSERVATION CODE FOR:

DERON A. JYO
LICENSED PROFESSIONAL ENGINEER
No. 11797-M
HAWAII, U.S.A.

_____ BUILDING COMPONENT SYSTEMS

_____ ELECTRICAL SYSTEMS

X MECHANICAL SYSTEMS

SIGNATURE:

DERON JYO

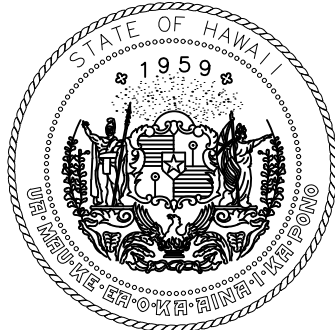
 DATE: 04/30/2024

TITLE: MECHANICAL ENGINEER

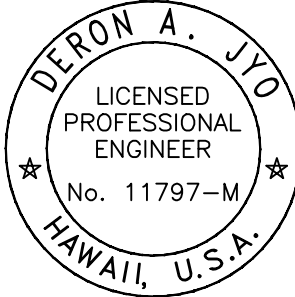
LICENSE No.: 11797-M

| PLUMBING FIXTURE SCHEDULE | | | | | | |
|---------------------------|---|-----------|-------|--------|-----------|------------|
| SYMBOL | DESCRIPTION | TRAP SIZE | WASTE | VENT | HOT WATER | COLD WATER |
| P-1 | WATER CLOSET, FLOOR MOUNTED, LOW FLOW FLUSH VALVE | 4" | 4" | 2" | - | 1" |
| P-2 | URINAL, LOW FLUSH VALVE | 2" | 2" | 2" | - | 3/4" |
| P-3 | LAVATORY | 1-1/2" | 2" | 1-1/2" | - | 1/2" |
| P-4 | NOZZLE, INSTALL WITH ADJUSTABLE BALL FITTING | - | - | - | - | 3/8" |
| HB | HOSE BIBB | - | - | - | - | 3/4" |

| PLUMBING LEGEND | | |
|-----------------|---------|---------------------|
| SYMBOL | ABBREV. | DESCRIPTION |
| | | CAPPED/STUBOUT PIPE |
| | CW | COLD WATER |
| | DN | DOWN |
| | (E) | EXISTING |
| | | GATE VALVE |
| | HB | HOSE BIBB |
| | LAV | LAVATORY |
| | MS | MOP SINK |
| | NTS | NOT TO SCALE |
| | | PIPE UP |
| | | PIPE DOWN |
| | | TEE DOWN |
| | | NOZZLE |
| | POC | POINT OF CONNECTION |
| | POR | POINT OF REMOVAL |
| | SK | SINK |
| | TYP | TYPICAL |
| | UR | URINAL |
| | WC | WATER CLOSET |



Airports Division
DEPARTMENT OF TRANSPORTATION
STATE OF HAWAII



04/30/2024
Signature
This work was prepared by me or under my supervision.

| | | | |
|-------|-------|-------|-------|
| DSGN. | DRWN. | CHKD. | APPD. |
| | | | |

| | | |
|-----|------|-----------|
| NO. | DATE | REVISIONS |
|-----|------|-----------|

FINAL
SUBMITTAL

09/30/22
DATE

PROJECT TITLE :

AIR TRAFFIC CONTROL
TOWER REPAIRS

AT
KALAELOA AIRPORT
BARBERS POINT, OAHU, HAWAII

PROJECT NO.:

AO5024-03

SHEET TITLE:

PLUMBING GENERAL
NOTES, SCHEDULES,
AND LEGEND

| | |
|----------------|-----------------------------|
| DATE : | DWG. NO. <div>P001</div> |
| 9/30/22 | |
| SHEET : | |
| 46 OF 49 SHEET | |