KEYED NOTES:

1. PROVIDE ADEQUATE CLEARANCE ABOVE UNIT FOR OPERATION OF VALVES OR UNIT REMOVAL.
2. AIR GAP FITTING FURNISHED WITH BACKFLOW PREVENTER.
3. BYPASS PIPING AROUND BFP IS PROHIBITED.

NOTES FOR DESIGNER:

1. WHEN EDITING DETAIL TO SUIT PROJECT, ADD JOB SPECIFIC REQUIREMENTS AND DELETE ONLY THOSE PORTIONS THAT DO NOT APPLY. TO SEEK A VARIANCE FROM APPLICABLE REQUIREMENTS, CONTACT THE ESM, MECHANICAL POC.
2. REFER TO THE FOLLOWING LANL STANDARDS FOR ADDITIONAL REQUIREMENTS:
   A. ENGINEERING MANUAL, MECHANICAL CHAPTER.
   B. MASTER SPECIFICATION 01 3545, WATER DISCHARGE REQUIREMENTS.
   C. MASTER SPECIFICATION 22 1100, FACILITY WATER DISTRIBUTION.
   D. MECHANICAL DRAWING ST-D2020-1, SITE/BUILDING WATER COMPONENT DIAGRAM.
3. BACKFLOW PREVENTERS (BFP) MAY BE STACKED OR INSTALLED SIDE-BY-SIDE PROVIDED THAT THE MINIMUM AND MAXIMUM CLEARANCE DIMENSIONS ARE MAINTAINED:
   A. USE VERTICAL INSTALLATION (STACKED) WHERE POSSIBLE.
   B. 12" MINIMUM CLEARANCE IS REQUIRED WHEN BACKFLOW PREVENTERS ARE INSTALLED SIDE-BY-SIDE.
4. PROVIDE FLOOR DRAIN TO SANITARY SEWER NEAR BFP. ROUTE BFP DRAIN PIPING TO MINIMIZE A TRIPPING/HAZARD.
5. FOR ONE BFP, THE MINIMUM DRAIN PIPING SIZE IS THE SAME SIZE AS THE AIR GAP BFP PORT SIZE. FOR 2 OR MORE BFP'S ON THE SAME DRAIN PIPING, THE MINIMUM COLLECTING DRAIN PIPING SIZE IS THE SUM OF THE INDIVIDUAL DRAIN PIPING AREAS.
6. BFP INSTALLED MORE THAN 5 FEET ABOVE FLOOR SHALL BE PROVIDED WITH A PLATFORM CAPABLE OF SUPPORTING A TESTER OR MAINTENANCE PERSON (UPC REQUIREMENT).

DRAWING DEVELOPED FOR ML-3/ML-4 PROJECTS. FOR ML-1/ML-2 ADDITIONAL REQUIREMENTS AND QA REVIEWS ARE REQUIRED. DRAWING NOT INCLUDED ON CONSTRUCTION DRAWINGS OR ON BFP PACKAGE.

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