

NOTES FOR DESIGNER: (DO NOT INCLUDE ON CONSTRUCTION DRAWINGS)

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.
(REMOVE THIS NOTE WHEN IN-
SERTED INTO A DRAWING PACK-
AGE).

3	7-28-04	U		DWG NO. WAS ST-D10-30GEN-1.	RP	RF	JM	CD	TO
2	8-14-03	U		EDITORIAL CHANGES & DWG NO. WAS ST-100.	RP	AY	RR	GG	TO
1	9-8-02	U		REVISED NOTES AND REVISED TO COMPLY WITH DRAFTING MANUAL.	RP	AY	GG	GG	TO
NO	DATE	CLASS REV	ADD	DESCRIPTION	OWN	DSGN	CHKD	SUB	APP

ENGINEERING STANDARDS PROGRAM

ENGINEERING STANDARDS MANUAL		DRAWN	R.PEARSON
		DESIGN	R.FROST
		CHECKED	G.GREWAL
BLDG X		DATE	6-28-99
SUBMITTED		APPROVED FOR RELEASE	
DISCIPLINE POC: GURINDER GREWAL		STANDARDS MANAGER: TOBIN ORUCH	
		SHEET	3
		3	OF 3
CLASSIFICATION: U		REVIEWER: LARRY BAYS	DATE:
PROJECT ID		DRAWING NO	REV
CHAPTER 6		ST-D20GEN-1	3