



**KEYED NOTES:**

- 1 LANL'S SUPPORT SERVICES SUBCONTRACTOR (SSS) WILL FURNISH, INSTALL, AND ADJUST PRESSURE OF GAS REGULATOR.
- 2 CONTRACTOR SHALL TERMINATE PIPING WITH A THREADED CAP OR PLUG AND ALLOW SUFFICIENT HORIZONTAL SPACE, 5-10 FEET, BETWEEN TERMINATION POINTS FOR INSTALLATION OF REGULATOR STATION.
- 3 LOCATE REGULATORS NOT LESS THAN 10 FEET HORIZONTALLY FROM INTAKE AIR DEVICES (LOUVERS, FANS, ETC).
- 4 BOND ABOVE GROUND PIPING TO ELECTRICAL GROUNDING SYSTEM. BOND TO GAS PIPING AT SUITABLE LOCATION DOWNSTREAM OF REGULATOR AND UPSTREAM OF GAS APPLIANCE SHUT-OFF VALVE. COMPLY WITH NEC.
- 5 BOND GAS PIPING LOCATED WITHIN 6 FEET OF A LIGHTNING PROTECTION CONDUCTOR TO THE CONDUCTOR PER NFPA 780. BOND TO GAS PIPING AT SUITABLE EXTERIOR LOCATION DOWNSTREAM OF REGULATOR.

[ ] SCFH DESIGN FLOW TO BUILDING. SLEEVE AND SEAL PENETRATION W/MASTIC. USE UL/FM APPROVED MASTIC FOR FIRE WALL.

DRAWING DEVELOPED FOR ML-3/ML-4 PROJECTS. FOR ML-1/ML-2, ADDITIONAL REQUIREMENTS AND QA REVIEWS ARE REQUIRED. (REMOVE THIS NOTE WHEN INSERTED INTO A DRAWING PACKAGE).

**GAS REGULATOR STATION DETAIL**

SCALE: NONE

**NOTES FOR DESIGNER:**

- (DO NOT INCLUDE ON CONSTRUCTION DRAWINGS)
- 1. SEE SHEET 5.
- 2. VERIFY NATURAL GAS INLET PRESSURE AND SIZE REGULATOR ACCORDINGLY.

OUTLET PRESSURE	REGULATOR MAX. CAPACITY (SCFH) AT 0.6 S.G.	ORIFICE SIZE	SPRING NUMBER
<b>FISHER REGULATOR HSR (CAPACITIES BASED ON 20 PSIG INLET PRESSURE)</b>			
7" WC	530	1/8	T14399T0012 (YELLOW)
	1200	3/16	
	1810	1/4	
1 PSIG	510	1/8	T14402T0012 (PINK)
	1020	3/16	
	1490	1/4	
2 PSIG	410	1/8	T14403T0012 (LT. BLUE)
	740	3/16	
	1040	1/4	

3	1-19-06	U	DY	REVISED TITLE BLOCK DATA, AND ADTS - ENGINEERING LOGO.	RP	MS	MS	EH	TO
2	9-27-04	U		FISHER REGULATOR HSR WAS S402 & REVISED TABLE ACCORDINGLY.	RP	JG	MS	EH	TO
1	8-23-02	U		GENERAL REVISION AND DWG. NO. WAS ST6500.	RP	JG	MS	EH	TO
NO	DATE	CLASS	REV	DESCRIPTION	OWN	DSGN	CHKD	SUB	APP

**ENGINEERING STANDARDS PROGRAM**

**ENGINEERING STANDARDS MANUAL**

GAS REGULATOR STATION DETAIL  
SINGLE STAGE, LOW FLOW

BLDG X  
SUBMITTED TA-X  
DISCIPLINE POC: E. HOTH  
REVIEWER: LARRY BAYS  
APPROVED FOR RELEASE  
STANDARDS MANAGER: TOBIN ORUCH

DATE: 6-28-99

**Los Alamos NATIONAL LABORATORY**

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CLASSIFICATION: U  
PROJECT ID: CHAPTER 3

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