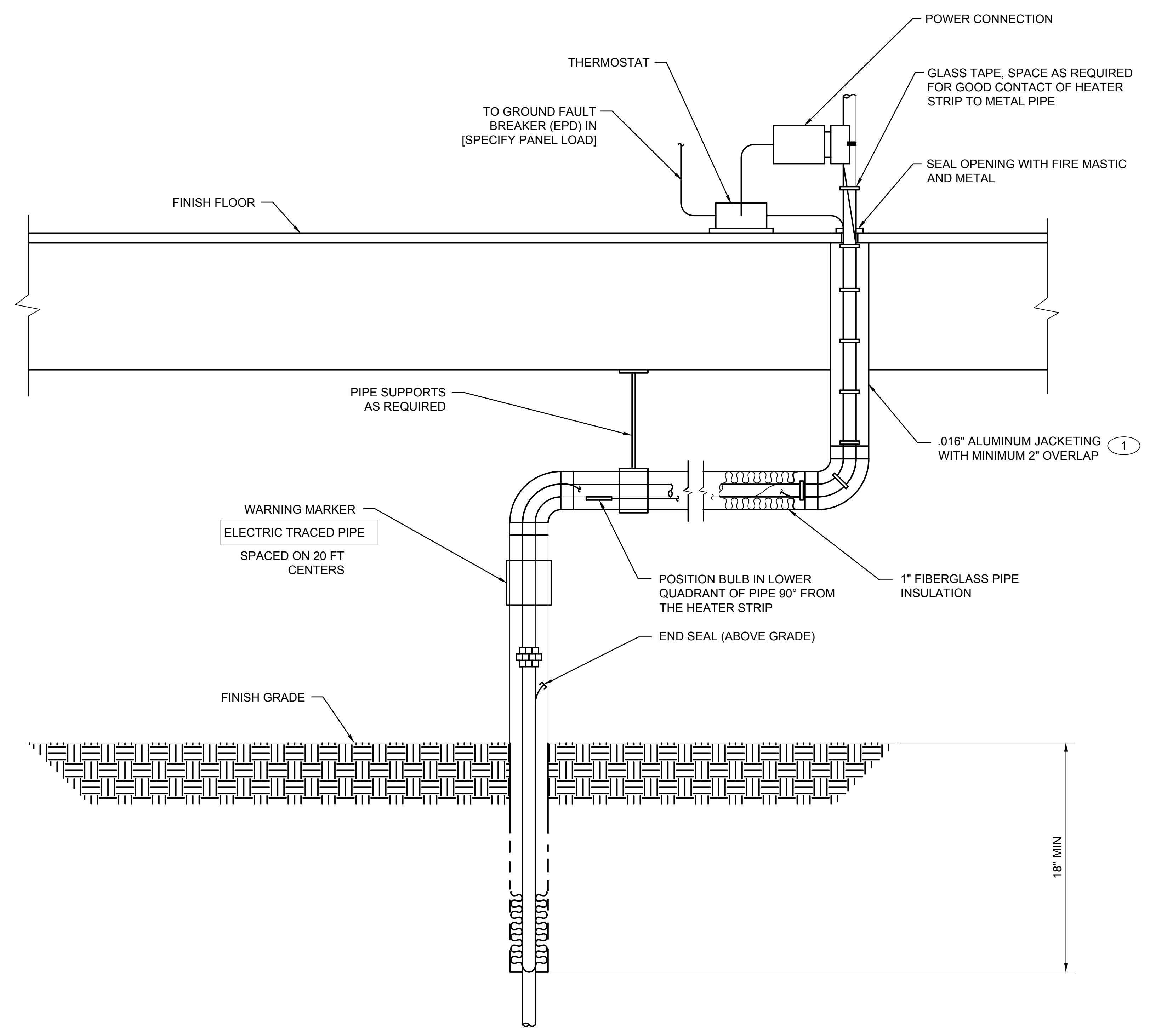


1 2 3 4 5 6

KEYED NOTES:

① SECURE WITH 1/2" WIDE ALUMINUM STRAPS, 16" CENTERS.



WARNING MARKER
ELECTRIC TRACED PIPE
SPACED ON 20 FT
CENTERS

FREEZE PROTECTION DETAIL
SCALE: NONE

- NOTES FOR DESIGNER:** (DO NOT INCLUDE ON CONSTRUCTION DRAWINGS)
- 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.
 - FOR CRITICAL FACILITIES, A CIRCUIT CONTINUITY ALARM MAY BE REQUIRED. REFER TO IEEE STD 622 FOR NUCLEAR FACILITIES.
 - SUGGESTED HEATER CABLE SPECIFICATION FOR TRAILERS/TRANSPORTABLES POTABLE AND FIRE WATER PIPING. COORDINATE DESIGN WITH MANUFACTURER'S REPRESENTATIVE.
 - a) SELF REGULATING HEATER CABLE, 3 WATTS/FT, 120V, NO. LT3-CB, WITH POWER CONNECTION KIT, NO. PLT-BC-[B3]*, AND THERMOSTAT, NO. TF4X40, MFR: NELSON HEAT TRACING SYSTEM, (505) 256-1300, OR APPROVED EQUAL.
- *SPECIFY: "B3" FOR PIPE SIZES UP TO 3", "B12" FOR PIPE SIZES LARGE THAN 3" TO 12".

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).

NO	DATE	CLASS REV	DC	DESCRIPTION	DWN	DSGN	CHKD	SUB	APP
5	05-25-2017	UNCLASS	TO	ADMIN. CHANGES TO CAD STD REV #5 FORMAT	JB	AJ	ML	ML	TO
4	08-04-2004	U		DWG. NO. WAS ST-D10-30GEN-2	RP	RF	MN	CD	TO
3	08-14-2003	U		EDITORIAL CHGS. & DWG NO. WAS ST6900.	RP	RF	RR	GG	TO
2	09-06-2002	U		REVISED KEY NOTES & DESIGNER NOTES	RP	JR	GG	GG	TO
1	05-10-2001	U		REVISED TO COMPLY WITH DRAFTING MANUAL. ADDED KEYED NOTES & DESIGNER NOTE. REVISED FLOOR PENETRATION.	RP	RR	KB	TO	TO

ENGINEERING STANDARDS

MECHANICAL

FREEZE PROTECTION DETAIL WATER PIPING

TA- XX BLDG XX

DRAWN: R. PEARSON
DESIGN: R. ROMERO
CHECKED: K. BECKMAN
DATE: 6-28-99

SUBMITTED DISCIPLINE POC: GURINDER GREWAL APPROVED FOR RELEASE STANDARDS MANAGER: TOBIN ORUCH

Los Alamos NATIONAL LABORATORY P.O. Box 1663 Los Alamos, New Mexico 87545

D.C.: U REVIEWER: LARRY BAYS DATE: 6-28-99

PROJECT ID: CHAPTER 6 DRAWING NO: ST-D20GEN-2 REV: 5

SHEET 1 OF 1

00% REVIEW
NOT FOR CONSTRUCTION

D
C
B
A