



**KEYED NOTES:**

- 1 RUN SERVICE LINE WITHIN 6" OF EXISTING MAIN.
- 2 MINIMUM BELL HOLE AT BOTTOM OF TRENCH: 24" FROM CENTERLINE OF NEW PIPE ON EACH SIDE; 18" FROM EDGE OF MAIN ON BACK SIDE; 8'-0" IN FRONT OF MAIN (LENGTH OF BELL HOLE); 18" UNDER MAIN. TAPER OR STEP TRENCH TO MEET OSHA REQUIREMENTS.
- 3 LANL CONSTRUCTION INSPECTOR WILL ENSURE MATERIALS REQUIRED FOR HOT TAP ARE AT JOB SITE, DISINFECTING AND PRESSURE TESTING OF THE SERVICE LINE HAVE BEEN COMPLETED, AND EXCAVATION OF BELL HOLE IS DONE PRIOR TO NOTIFYING SSS.
- 4 LANL CONSTRUCTION INSPECTOR WILL GIVE SSS 10 WORKING DAYS NOTICE OF THE NEED TO SCHEDULE A TIE-IN TO EXISTING UTILITIES.

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).

**WATER PIPING TIE-IN DETAIL**  
SCALE: NONE

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

- 1. SEE SHEET 3.

NO	DATE	CLASS	REV	ADD	DESCRIPTION	OWN	DSGN	CHKD	SUB	APP
2	8-14-03	U			EDITORIAL CHANGES & REVISED KEYED NOTE 4.	RP	JH	MS	EH	TD
1	8-23-02	U			GENERAL REVISION AND DWG. NO. WAS ST8105.	RP	EH	MS	EH	TD

**ENGINEERING STANDARDS PROGRAM**

**ENGINEERING STANDARDS MANUAL**

WATER PIPING TIE-IN DETAIL  
4" TO 12" LINE SIZE

BLDG X TA-X DATE 8-28-99

APPROVED FOR RELEASE

DISCIPLINE POC: GURINDER GREWAL STANDARDS MANAGER: TOBIN ORUCH

**Los Alamos NATIONAL LABORATORY** PO Box 1663 Los Alamos, New Mexico 87545

CLASSIFICATION: U REVIEWER: LARRY BAYS DATE: 2 OF 3

PROJECT ID: CHAPTER 3 DRAWING NO: ST-G3010-2 REV: 2

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