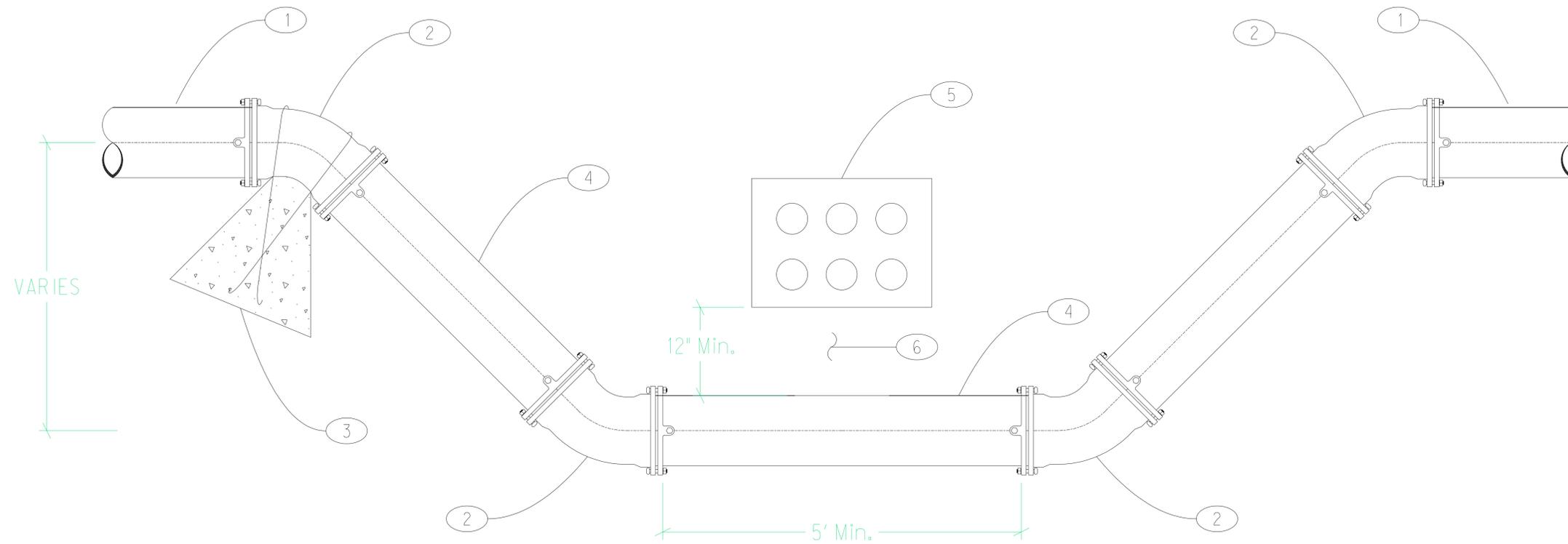


GENERAL NOTES

1. ALL FITTINGS 4" AND LARGER SHALL BE DUCTILE IRON MECHANICAL JOINT FITTINGS WITH CEMENT MOTAR LINING CONFORMING TO SPECIFICATION SECTION 02665.
2. ALL FITTINGS SHALL BE MECHANICALLY RESTRAINED WITH PRODUCTS MEETING THE REQUIREMENTS OF SPECIFICATION SECTION 02665.
3. THRUST RESTRAINT SHALL CONFORM TO THE REQUIREMENTS OF SNL STANDARD DRAWING WU5005STD.
4. WHERE NEW MECHANICAL JOINT FITTINGS CONNECT TO AN EXISTING LINE BOTH MECHANICAL JOINT RESTRAINTS AND CONCRETE THRUST BLOCKS WILL BE REQUIRED IF THE CONTRACTOR IS UNABLE TO ACHIEVE THE MINIMUM RESTRAINT DISTANCE REQUIRED ON STANDARD DRAWING WU5005STD.
5. GRAVITY THRUST BLOCKS ARE NOT PART OF STANDARD DWG. #WW5005STD AND MUST BE SIZED BY THE DESIGN ENGINEER.

KEYED NOTES

- ① EXISTING WATER LINE.
- ② NEW 45 DEGREE MECHANICAL JOINT ELBOW, WITH MECHANICAL JOINT RESTRAINTS.
- ③ GRAVITY CONCRETE THRUST BLOCK WITH TIE RODS ONLY REQUIRED IF THE RESTRAINED LENGTH AS REQUIRED FOR A VERTICAL OFFSET PER STANDARD DRAWING WU5005STD, CANNOT BE MET.
- ④ NEW CEMENT LINED DUCTILE IRON PIPE.
- ⑤ CONCRETE DUCTBANK OR OTHER UTILITY CONFLICT.
- ⑥ USE LEAN FILL WHERE MECHANICAL COMPACTION CAN NOT BE ACHIEVED.



NOT TO SCALE:

	△					
	△					
	△					
	△					
	△					
P.O. OR W.O. PROJECT NO.	REV	DATE	DESCRIPTION	DWN	CKD	APP

U.S. DEPARTMENT OF ENERGY	
KIRTLAND AREA OFFICE	ALBUQUERQUE, NEW MEXICO
<b>SANDIA NATIONAL LABORATORIES</b>	
ALBUQUERQUE, NEW MEXICO; LIVERMORE, CALIFORNIA; TONOPAH, NEVADA	
WATER VERTICAL LINE RELOCATION	P.O. OR W.O.
	PROJECT NO.
	DRAWN BY J. MICHAELS
	CHECKED BY J. MICHAELS
	APPROVED BY J. MICHAELS

<b>CAD DRAWING</b>	CIVIL WORKS	STANDARD	DATE	5/1/03
FILE NAME: WW5002STD.DGN	SIZE	DRAWING NO./SHEET		SEQ.
	D+	WW5002STD		
REFERENCE FILES:	BDUTIL.DGN			

Property of Sandia National Laboratories Facilities Management and Operation Center (FMOC). No duplication or alteration allowed without the expressed permission and authorization of FMOC.