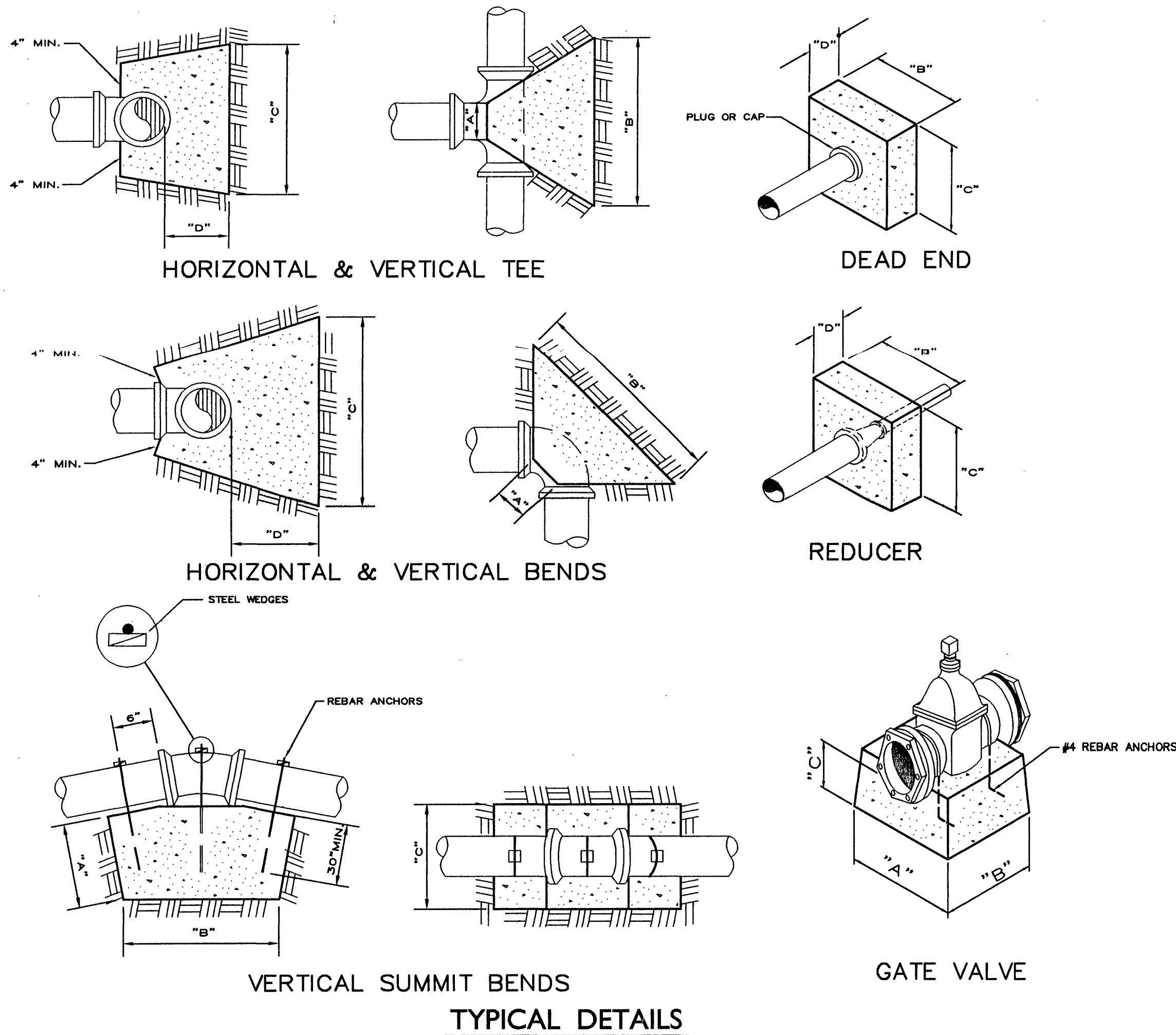




TYPICAL DETAILS

CONSTRUCTION DATA

WORKING PRESSURE : 150 P.S.I.												
PIPE SIZE	TEES & DEADENDS				90 ° BENDS				45 ° BENDS			
	A	B	C	D	A	B	C	D	A	B	C	D
6"	12"	2'-6"	1'-6"	6"	12"	2'-8"	2'-0"	12"	6"	2'-0"	1'-6"	10"
8"	1'-2"	3'-6"	2'-6"	1'-6"	1'-2"	4'-10"	2'-5"	2'-3"	1'-2"	2'-0"	2'-0"	1'-6"
10"		5'-3"	2'-6"	2'-0"	1'-4"	5'-0"	3'-0"	2'-10"	1'-4"	4'-0"	3'-0"	1'-6"

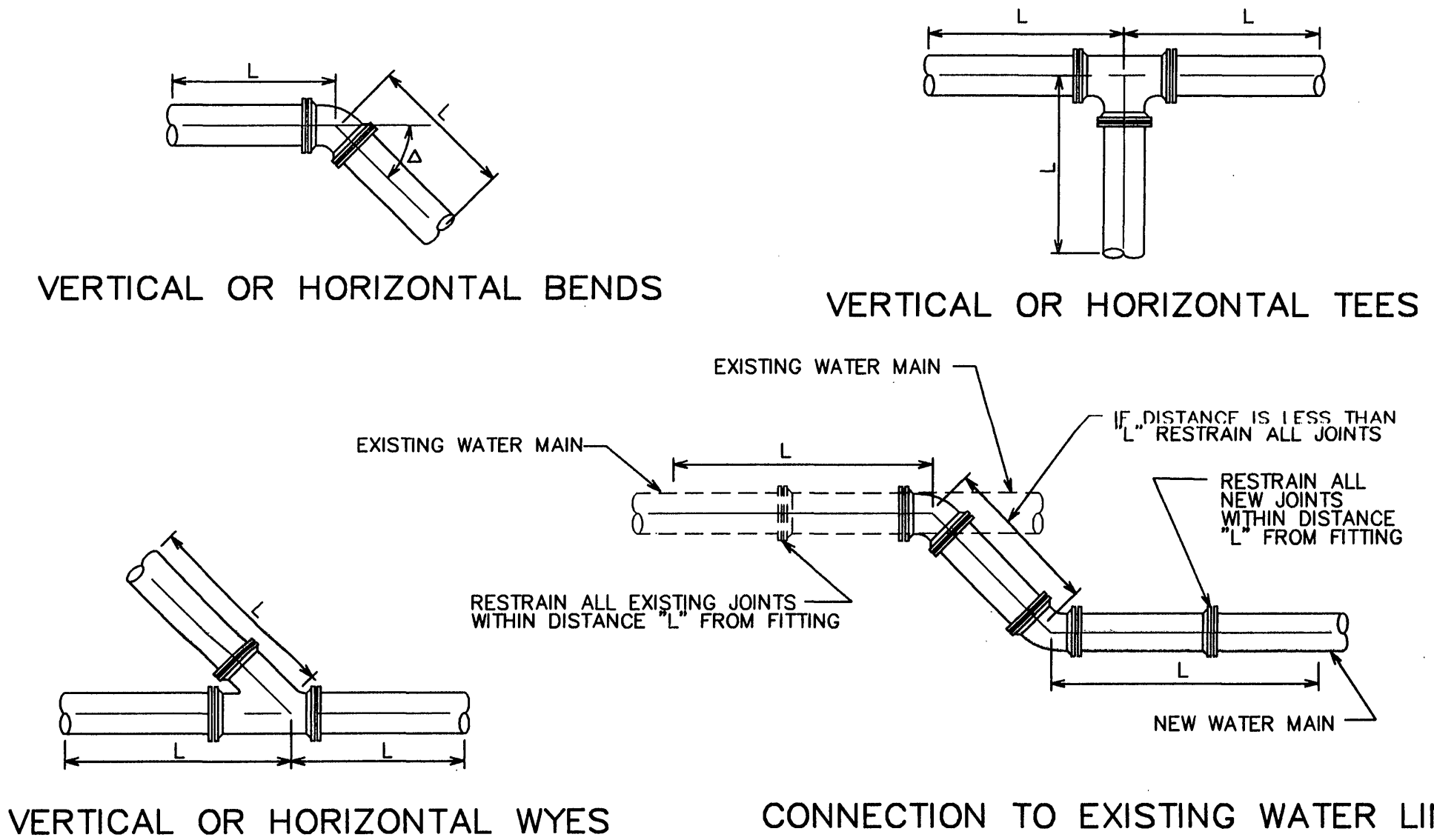
VERTICAL SUMMIT BENDS THRUST BLOCK DATA ALL WORKING PRESSURES				
PIPE SIZE	11 1/4 °			REBARS
	A	B	C	
6"	2'-10"	2'-10"	2'-4"	3 - NO. 4
8"	4'-0"	4'-0"	2'-4"	3 - NO. 6
10"	4'-4"	4'-4"	3'-0"	3 - NO. 7

NOTE:

THRUST BLOCKS ARE DESIGNED FOR A WORKING PRESSURE AS SHOWN IN THE TABLES AND AN ALLOWABLE SOIL BEARING CAPACITY OF 2000 PSF. IF PRESSURES AND SOIL BEARING CAPACITIES DO NOT FALL WITHIN THESE LIMITS, THE ENGINEER SHALL BE NOTIFIED PRIOR TO INSTALLATION OF THRUST BLOCKS.

TYPICAL DETAILS AND CONSTRUCTION DATA - CONCRETE THRUST BLOCKS

NOT TO SCALE



TYPICAL DETAILS

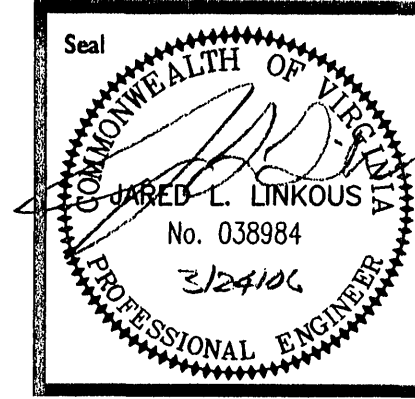
CONSTRUCTION DATA

WORKING PRESSURE : 150 P.S.I.								
PIPE SIZE (in)	L = MINIMUM LENGTH OF RESTRAINED PIPE (ft)							
	Δ = 90°		Δ = 45°		Δ = 22.5°		Δ = 11.25°	
	HORIZ.	VERT.	HORIZ.	VERT.	HORIZ.	VERT.	HORIZ.	VERT.
6	38	42	16	17	8	8	4	4
8	52	57	21	24	10	11	5	6
10	81	94	34	39	16	19	8	9

- NOTE:
- THE RESTRAINED LENGTH OF WATER LINE IS BASED ON THE FOLLOWING: A WORKING PRESSURE AS SHOWN IN THE TABLES, 3'-0" OF PIPE COVER, AND A SOIL TYPE CLASSIFICATION OF "MH".
 - PLUGS SHALL BE RESTRAINED BASED ON THE RESTRAINED LENGTH FOR 90° VERTICAL BENDS.
 - VALVES, TEES, AND WYES SHALL BE RESTRAINED BASED ON THE RESTRAINED LENGTH FOR 45° HORIZONTAL BENDS.
 - EXISTING WATER LINE ADJACENT TO PROPOSED BENDS, WYES, VALVES, TEES, AND PLUGS SHALL BE UNCOVERED AND THE EXISTING JOINTS SHALL BE RESTRAINED FOR THE LENGTH INDICATED. IF THE EXISTING WATER MAIN WILL NOT ACCEPT THE MECHANICAL JOINT RESTRAINING MECHANISM, THE EXISTING WATER MAIN SHALL BE REPLACED WITH DUCTILE IRON WATER MAIN FOR THE LENGTH INDICATED. MECHANICAL JOINT RESTRAINING MECHANISMS SHALL NOT BE USED ON EXISTING POLYVINYLCHLORIDE (PVC) PIPE.

TYPICAL DETAILS AND CONSTRUCTION DATA - MECHANICAL JOINT RESTRAINING DEVICES

NOT TO SCALE



CONNECTION TO EXISTING
WESTLAKE TOWNE CENTER WATER SYSTEM
FOR THE
FRANKLIN COUNTY BOARD OF SUPERVISORS
TYPICAL DETAILS - RESTRAINING DEVICES

No.	Date	Purpose of Document Issue
	03/02/06	REVIEW DOCUMENTS ISSUED
	03/27/06	BID DOCUMENTS ISSUED
	04/14/06	CONSTRUCTION DOCUMENTS ISSUED

Designed	MLC
Drawn	MLC
Checked	MLC
Date	MARCH 2006
File No.	PLANS

Project No.
8200-03



Office of Drinking Water
Danville Field Office
APR 17 2006
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Sheet No.
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