

#### **DOWNWARD BEND**

#### SECTION D - D

### BLOCKING FOR TEES AND WYES

BLOCKING FOR PLUGS AND ELBOWS					
OUTSIDE FACE AREA (SQ. FT.)					
PIPE SIZE (IN.)	PLUG	90° ELBOW	45° ELBOW	22 1/2° ELBOW	11 1/4° ELBOW
20	16	25	14	7*	4*
16	12	16	9	5*	3*
12	7	9	5	3*	2*
10	4	7	4	2*	1*
8	3	5	3	2*	1*
6	2	3	2	1*	1*

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BLOCKING FOR TEES AND WYES				
SIZE OF RUN (IN.)	SIZE OF BRANCH (IN.)	OUTSIDE FACE AREA (SQ. FT.)		
20 OR 16	16	12		
	12	7		
	10	6		
	8	5		
	12	7		
12 OR LESS	10	6		
	8	4		
	6	2		

#### NOTES:

- 1. USE CLASS 'B' CONCRETE FOR ALL THRUST BLOCKS
- 2. THRUST BLOCKS ARE INCIDENTAL TO THE INSTALLATION OF WATER MAIN
- 3. FOLLOW DIPRA PIPE RESTRAINT REQUIREMENTS FOR PIPE LENGTH INTO AND OUT OF A FITTING
- 4. MECHANICAL RESTRAINTS ARE REQUIRED WITH THRUST BLOCKS

## The City Of Goshen

Department of Public Works & Safety Office of Engineering

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# WATER MAIN RESTRAINT/THRUST BLOCKS

NOT TO SCALE

Date Approved By The City Of Goshen Board Of Public Works & Safety and Approved Revisions					
03/27/2025	07/24/2025				

CITY OF GOSHEN, INDIANA STANDARD DETAIL

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ı	Drawing Number:	
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