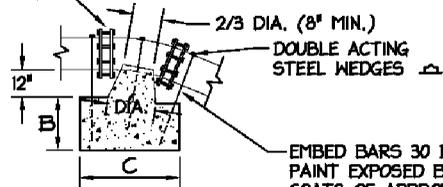
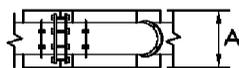




MJ BEND W/
RETAINER GLAND (TYP)



ELEVATION



PLAN

EMBED BARS 30 DIAMETERS.
PAINT EXPOSED BARS W/ TWO
COATS OF APPROVED BITUMINOUS
PAINT. SEE TABLE FOR BAR SIZE.

ANCHORAGE FOR VERTICAL BENDS

BEND	DIMENSION	LENGTH
11.25°	A	42"
	B	32"
	C	55"
	CY	1.75'
22.5°	A	54"
	B	41"
	C	70"
	CY	3.54'
45°	A	68"
	B	52"
	C	89"
	CY	7.02'

PIPE SIZE	11.25°	22.5°	45°
4"	3-NO.6	3-NO.6	3-NO.6
6"	3-NO.6	3-NO.6	3-NO.6
8"	3-NO.6	3-NO.6	3-NO.6
12"	3-NO.6	3-NO.6	3-NO.6
14"	3-NO.6	3-NO.6	3-NO.6
16"	3-NO.6	3-NO.6	3-NO.6
18"	3-NO.6	3-NO.6	3-NO.6
20"	3-NO.6	3-NO.6	3-NO.6
24"	3-NO.6	3-NO.6	5-NO.6
30"	3-NO.6	5-NO.6	5-NO.7
36"	4-NO.6	5-NO.6	6-NO.7

NOTES:

- ALL CONCRETE TO BE CLASS A-3.
- BUTTRESS DIMENSIONS SHOWN ARE MINIMUM. DIMENSIONS ARE BASED UPON SOIL BEARING PRESSURE OF 3000 P.S.F. AND STATIC WATER PRESSURE OF 150 P.S.I. WHERE PRESSURE EXCEEDS 150 P.S.I. OR WHERE SOIL BEARING CAPACITY IS LESS THAN 3000 P.S.F., SPECIAL BUTTRESS DESIGNS ARE REQUIRED.
- PLACE 5 MIL. POLYURETHANE BETWEEN PIPE & CONCRETE THRUST BLOCK.

STANDARD THRUST BLOCKS

NOT TO SCALE

REFERENCE 200, 801, 803	CATEGORY WATER & SANITARY	DATE 01/03	SHEET No. 2 OF 2	DETAIL No. WS_05
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SHEET 2 OF 2

	DESIGN AND CONSTRUCTION STANDARDS	
	STANDARD THRUST BLOCKS	
08/15/03	REV. FOR INTERNET 2003	DR. BY: DATE:
DATE	REVISIONS	CHK. BY: DATE:
		APP. BY: DATE:

WS_05

08