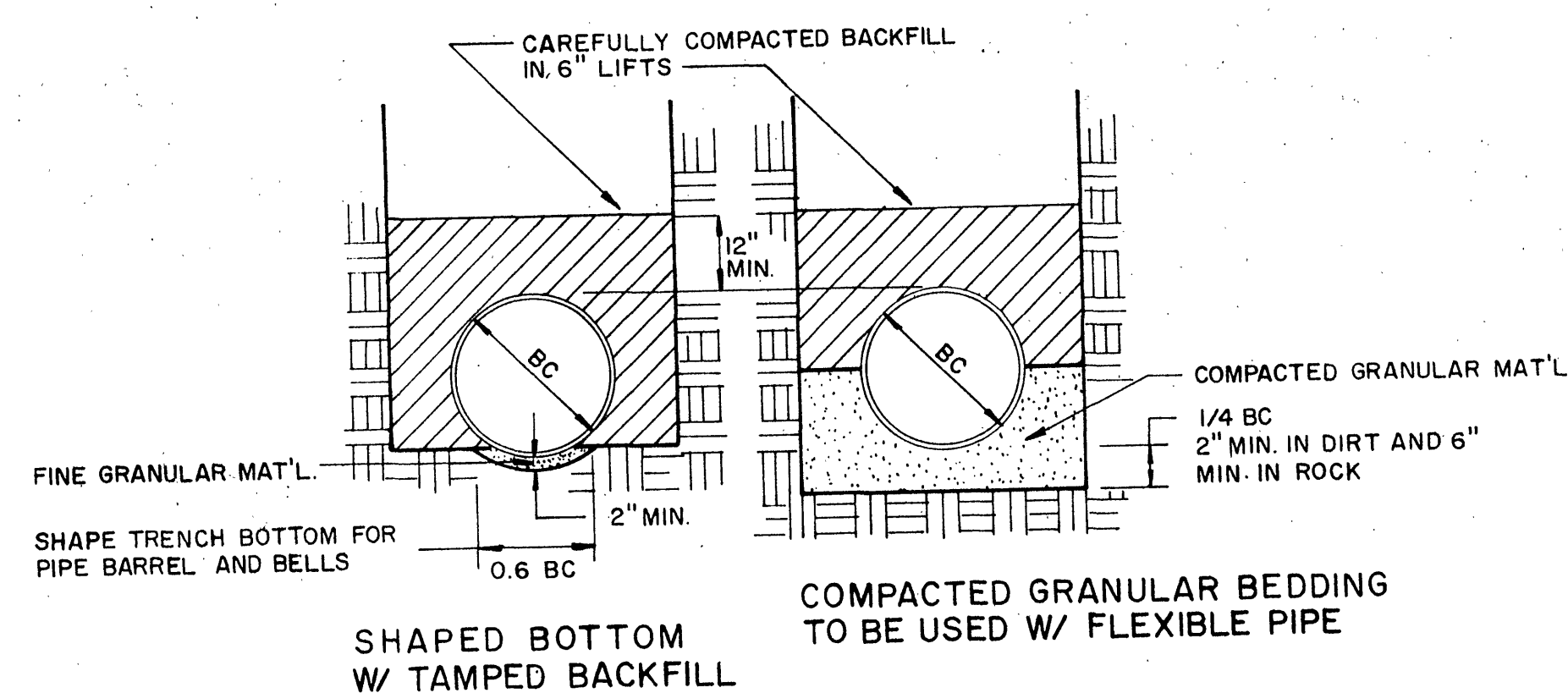


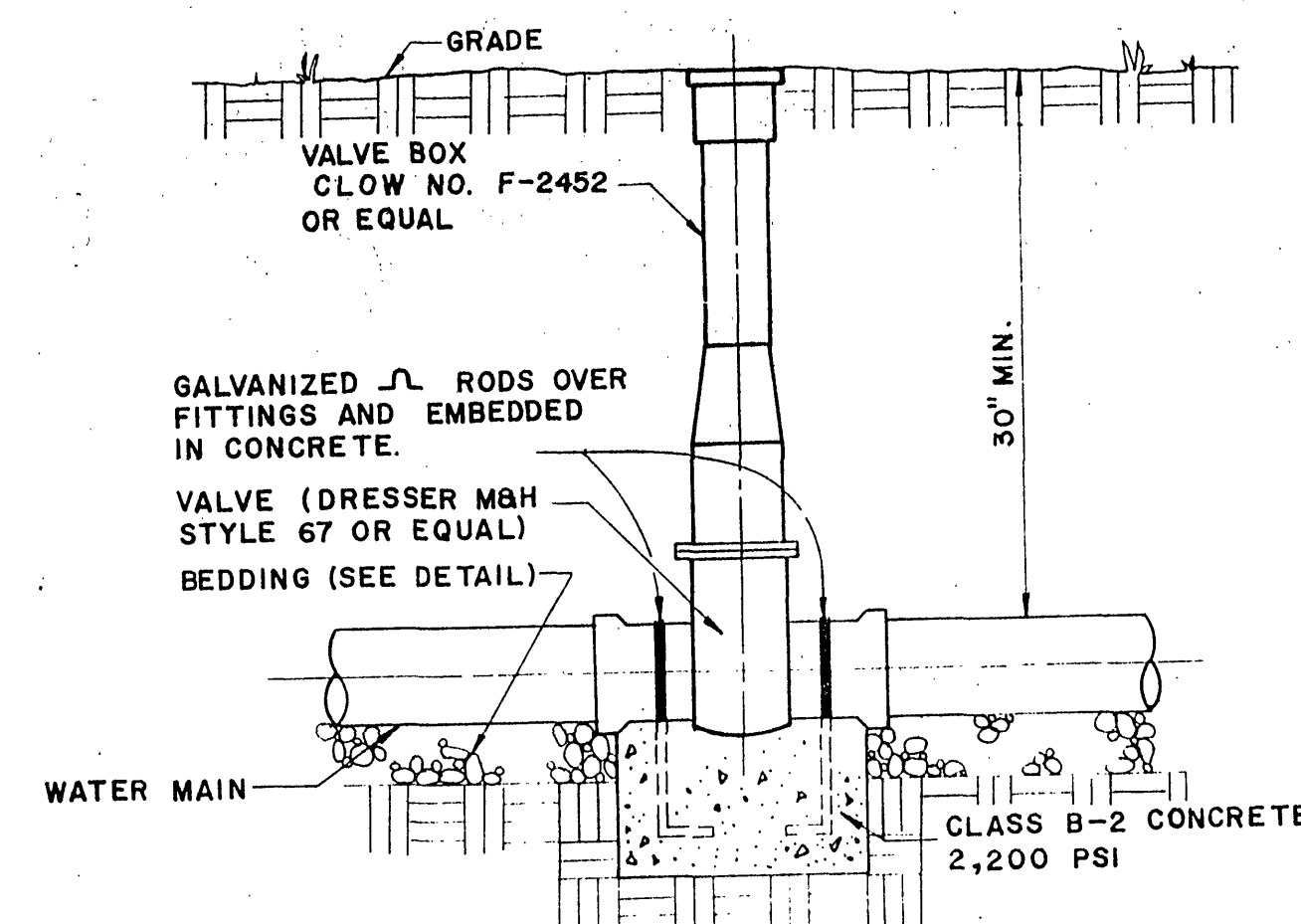


THE CONTRACTOR SHALL CHOOSE ONE OF THESE METHODS OF PIPE BEDDING UNLESS OTHERWISE DIRECTED BY THE ENGINEER

BEDDING DETAIL

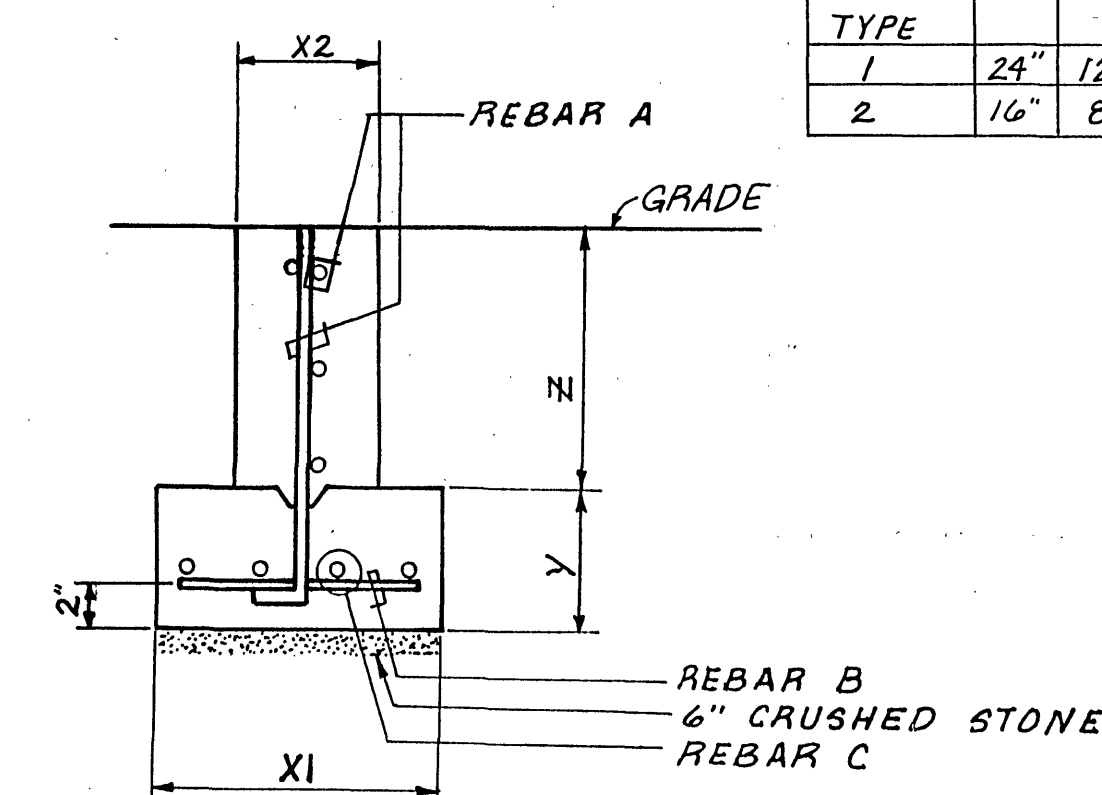
FIRST CLASS—CLASS B BEDDING

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TYPICAL VALVE INSTALLATION

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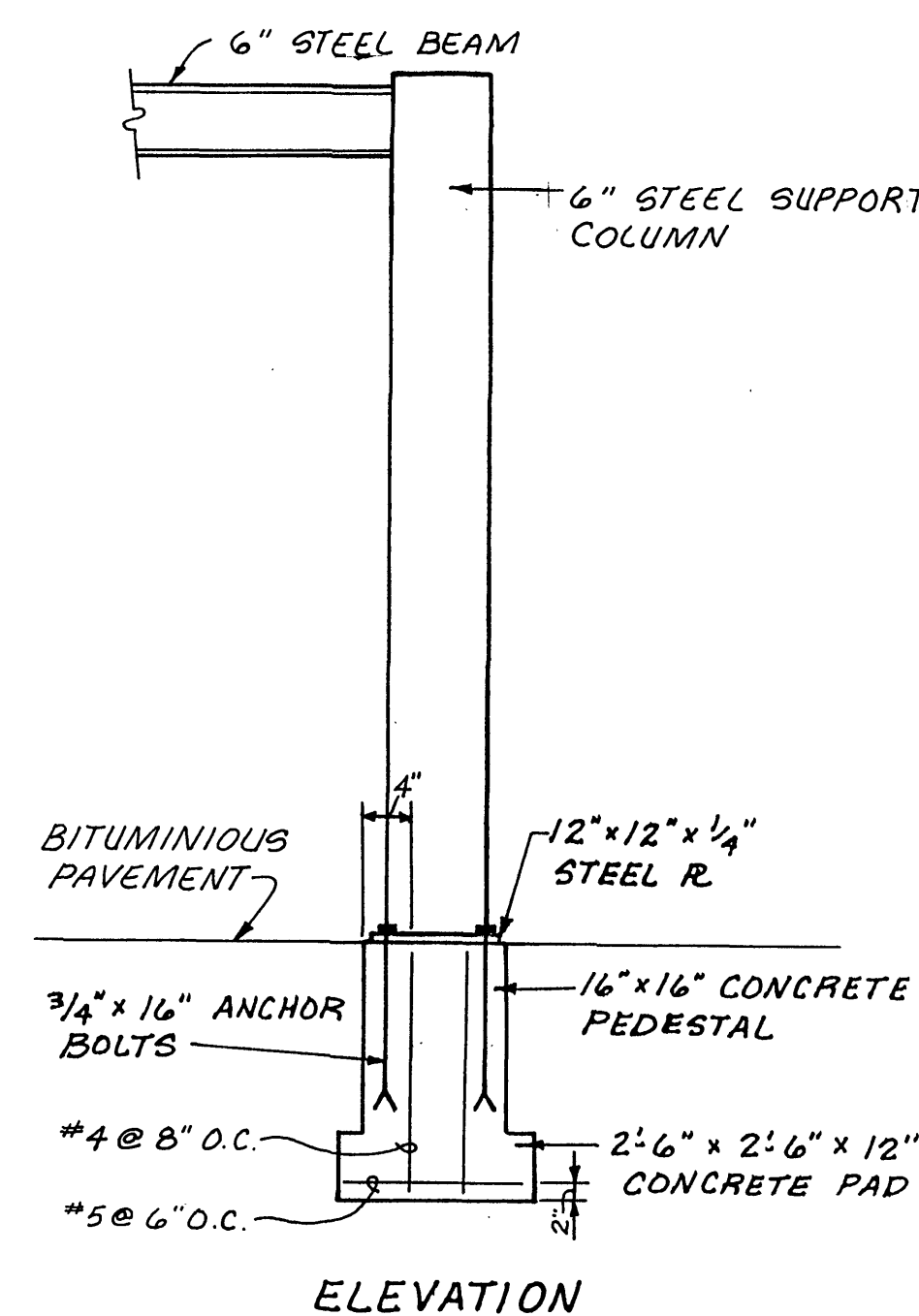


FOOTER DETAIL GENERAL

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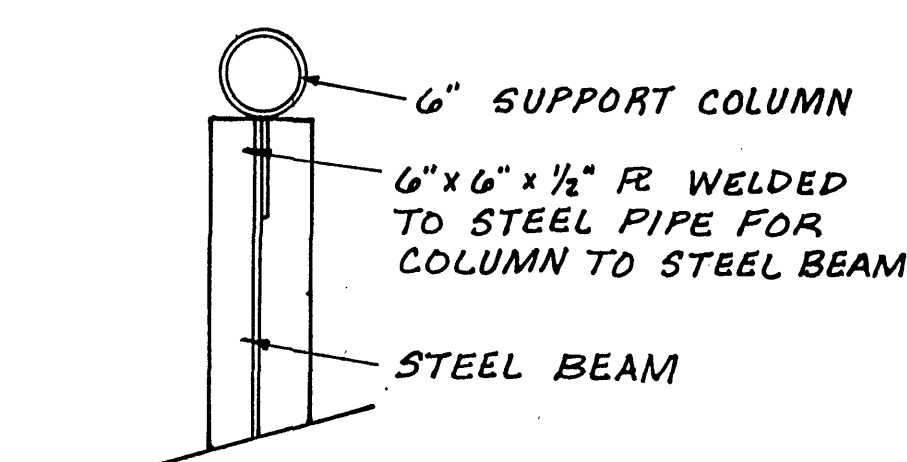
FOOTER TYPE	X1	X2	Y	Z	REBAR A SIZE & SPAC.	REBAR B
1	24"	12"	12"	3'-0"	#4 @ 8" O.C.	#5 @ 12" O.C.
2	16"	8"	12"	2'-0"	#4 @ 8" O.C.	#4 @ 12" O.C.

REBAR C
#5 @ 6" O.C.
#4 @ 6" O.C.

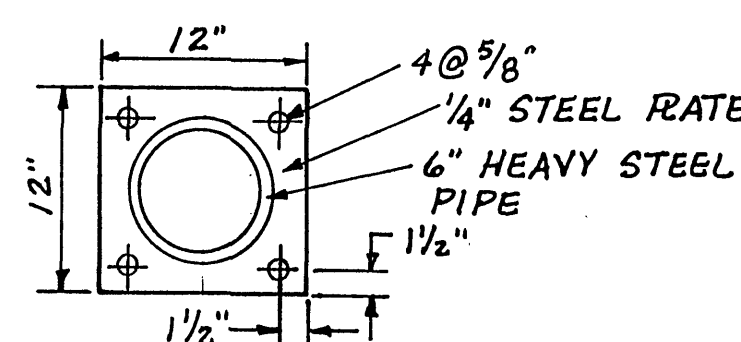


SUPPORT COLUMN DETAIL

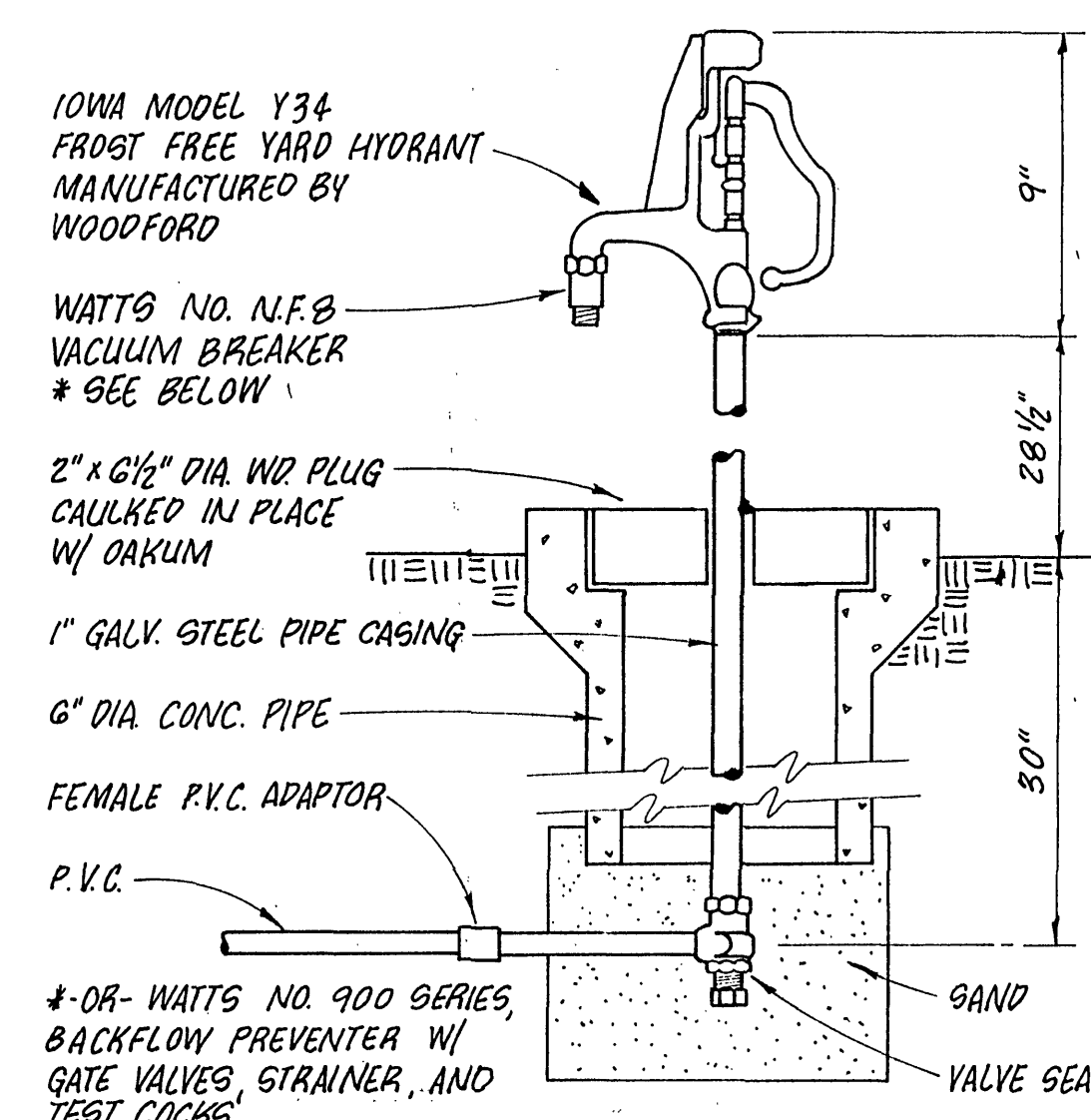
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SUPPORT PIPE DETAIL

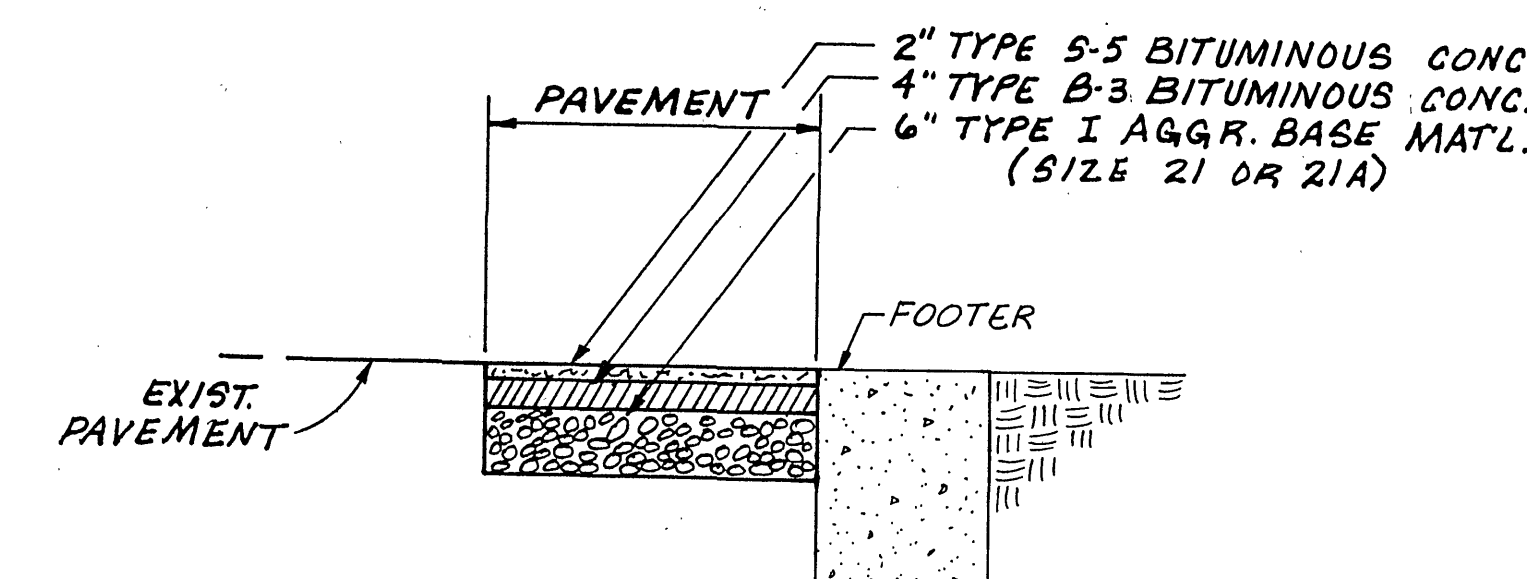


BASE PLATE DETAIL



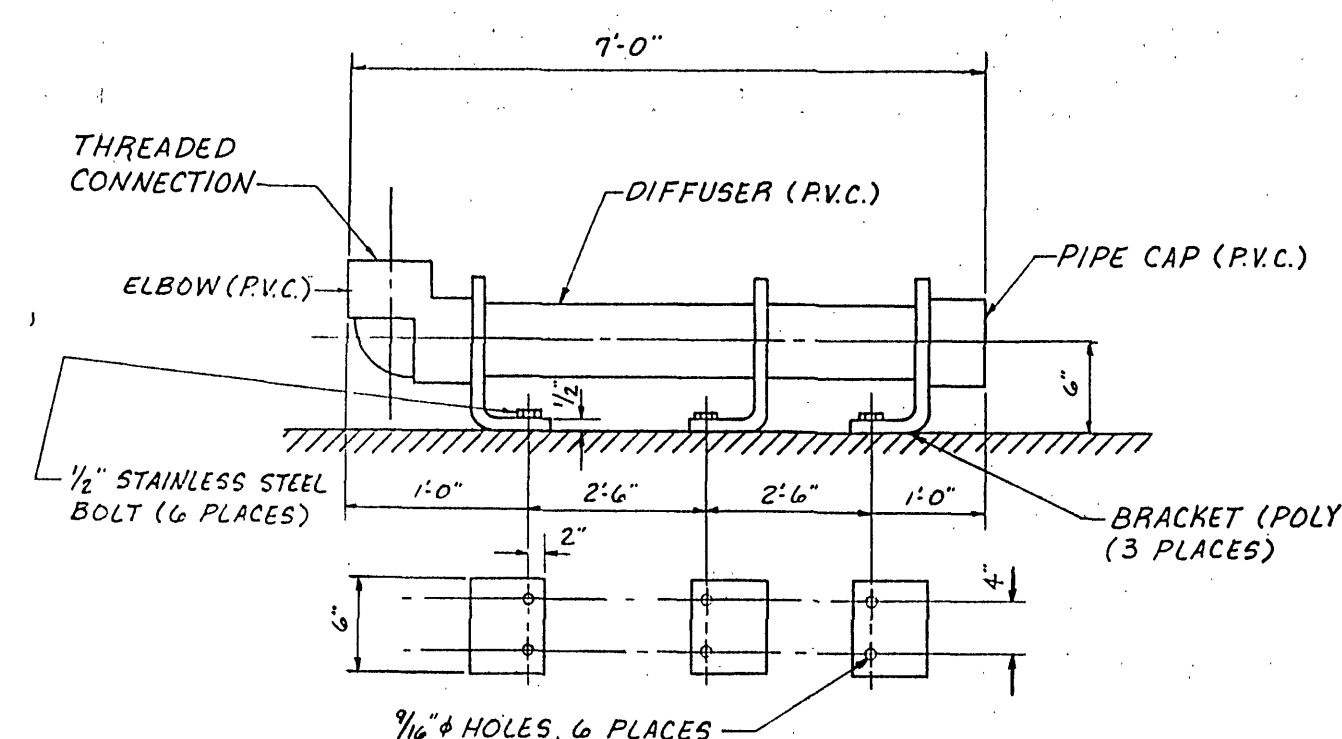
WATER RISER

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ROADWAY PAVEMENT DETAIL

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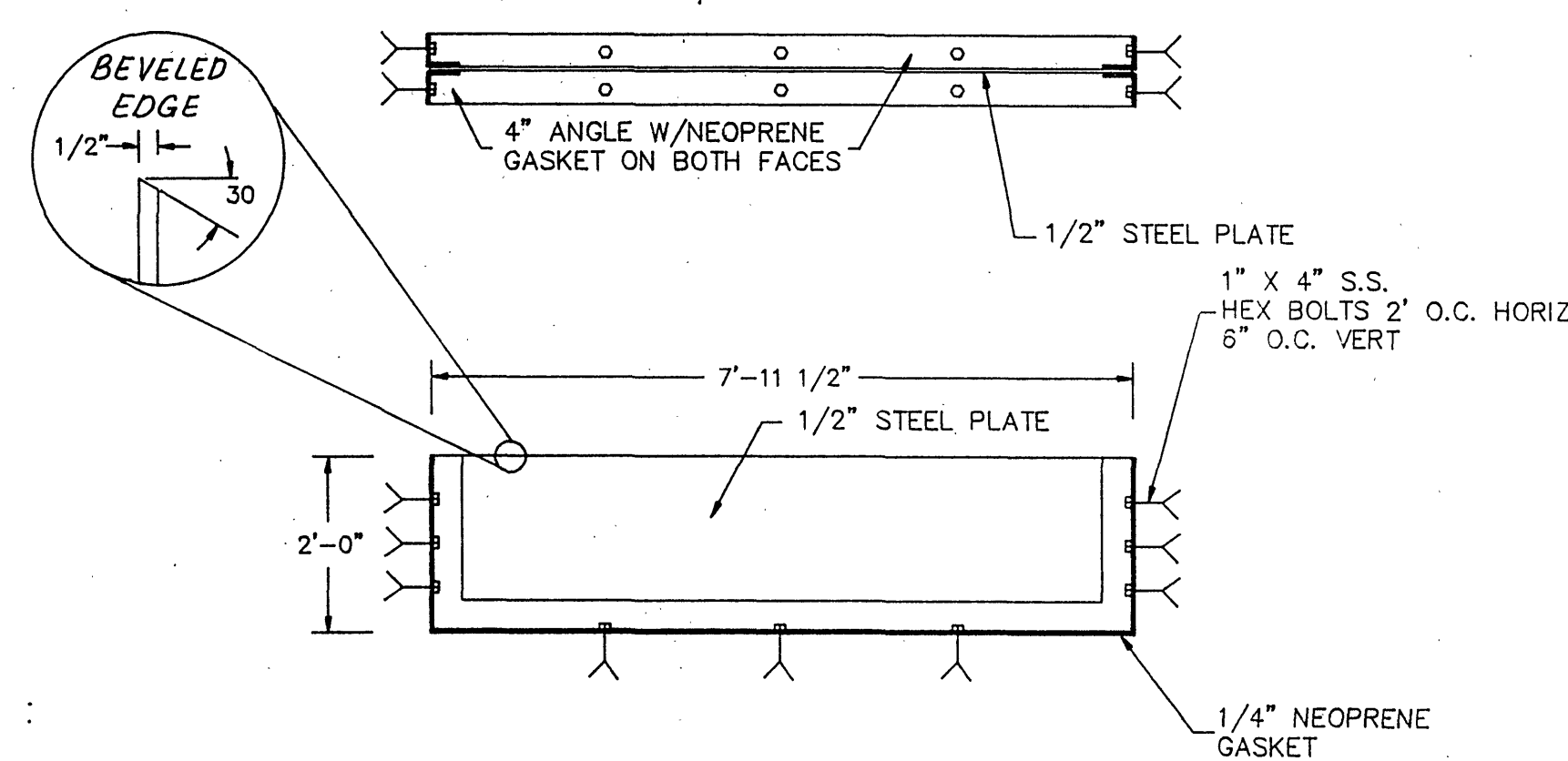


NOTE: DIFFUSER TO BE WALLACE & TIERNAN MODEL U29347 OR APPROVED EQUAL

CHANNEL DIFFUSER

NO SCALE

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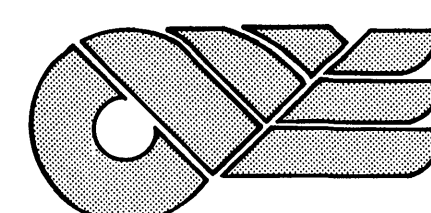


WEIR PLATE DETAIL

SCALE: 1/2" = 1'

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WEIR DESIGN CRITERIA	
TYPE: RECTANGULAR W/O END CONTRACTIONS	
FLOW FORMULA: $Q = 3.33 L H^{3/2}$	
WHERE Q = FLOW	
L = CREST LENGTH OF WEIR	
W = DISTANCE OF FREEFALL	
H = HEAD ON THE WEIR	
$Q_{MAX} = 60 \text{ MGD}$	
$L = 8'$	
$H_{MAX} = 2.3 \text{ FT}$	
$W_{MIN} = 2H$	
$= 4.60 \text{ FT}$	
$W = 6'-0"$	

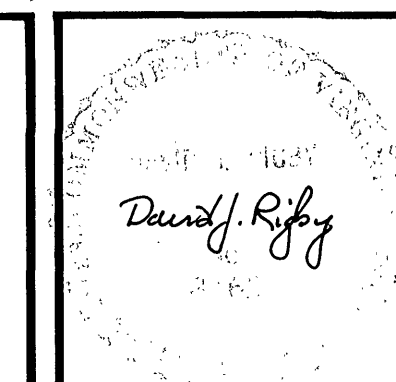


CLEAN WATER ENGINEERS, INC.

P.O. BOX 218
FINCASTLE, VIRGINIA 24090

ROUTE 1, BOX 78
HARRISONBURG, VIRGINIA 22801

ROANOKE WATER POLLUTION CONTROL FACILITY
CHLORINATION / DECHLORINATION FACILITIES
STD. DETAILS



REVISIONS		
NO.	DATE	BY
1	5-9-89	DJR

DESIGNED: WGP	SHEET: 9 OF 10
DRAWN: TAP	SCALE: NONE
CHECKED: WGP	DATE: FEB. 1989
APPROVED: DJR	PROJECT: 87025