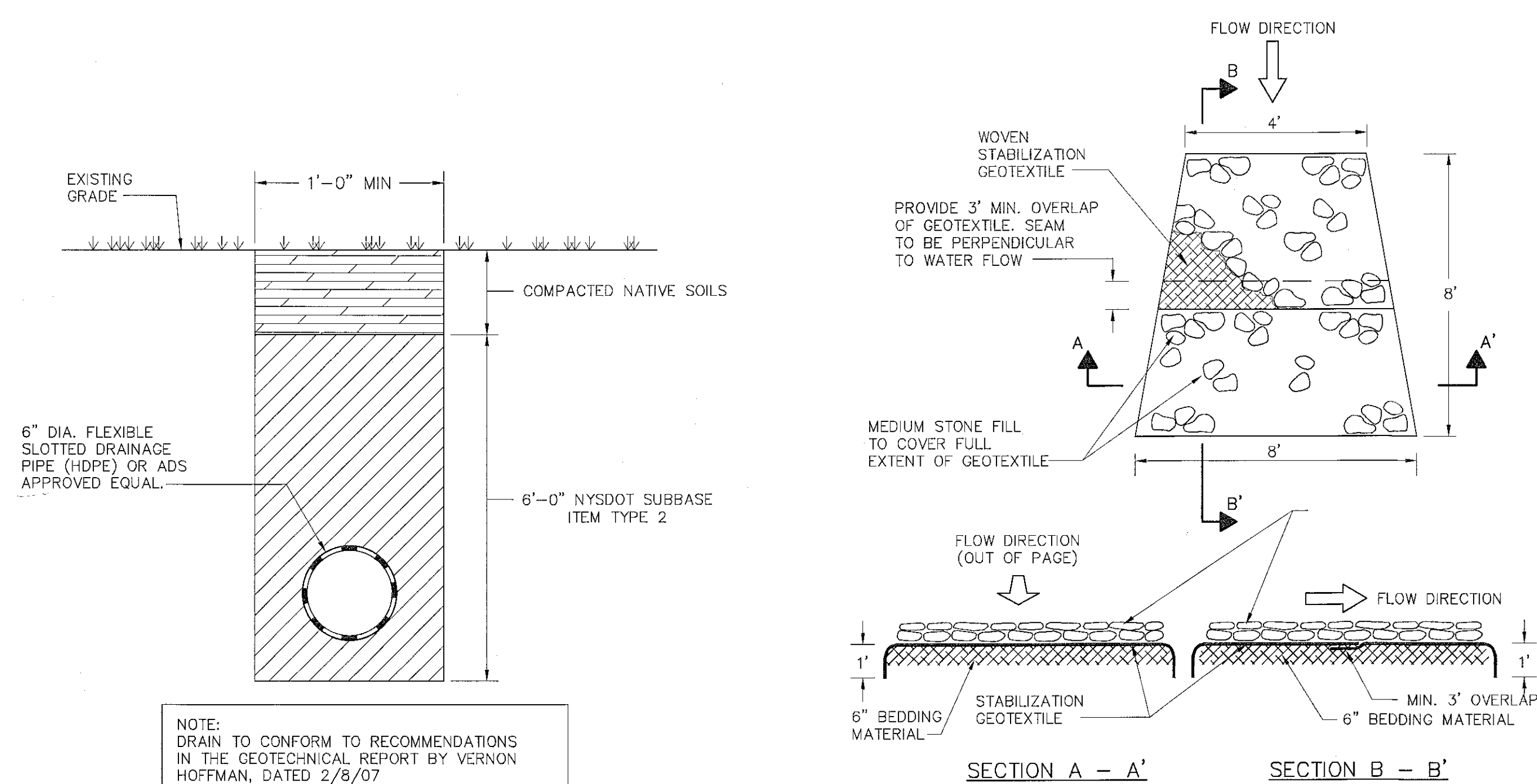
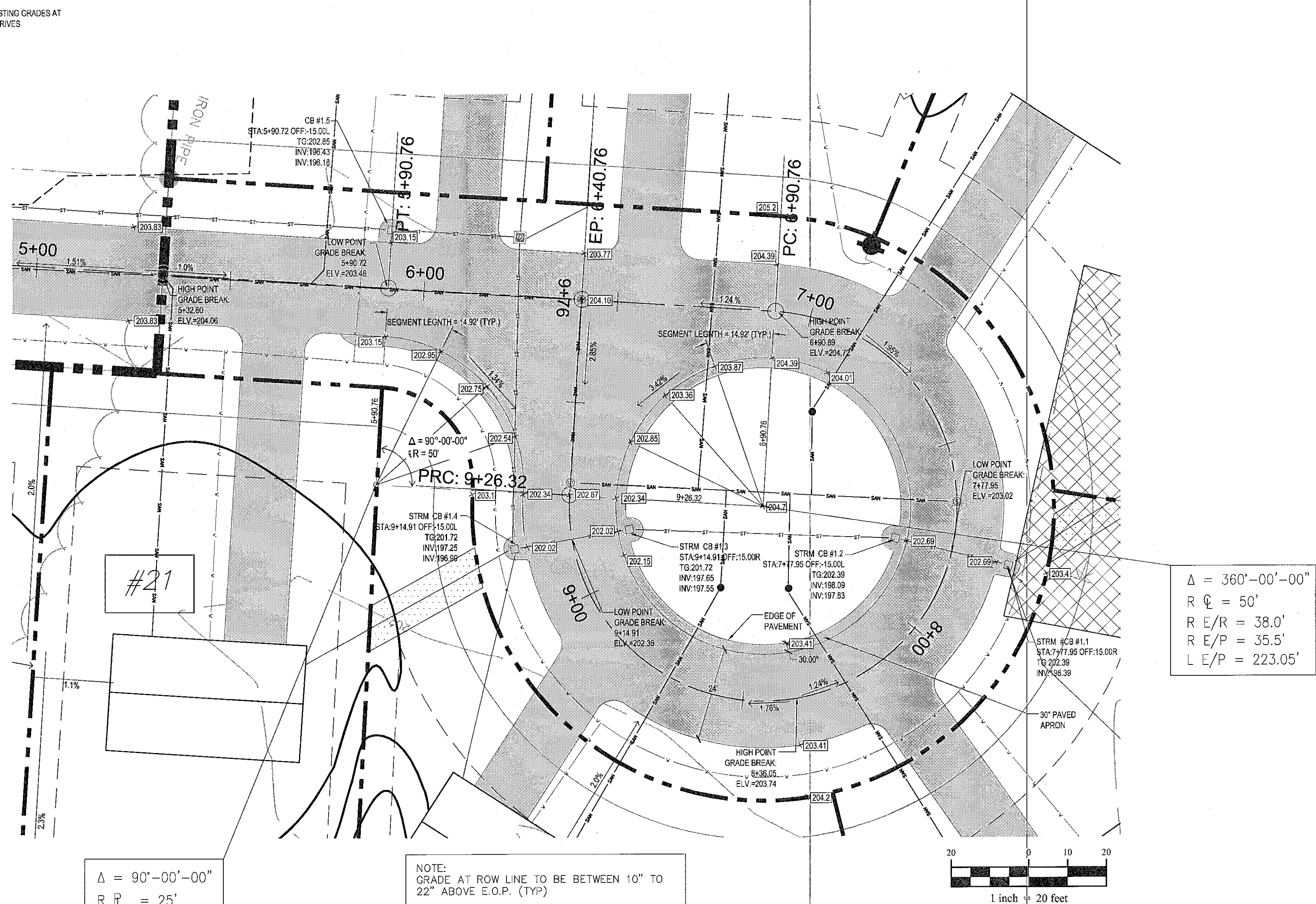
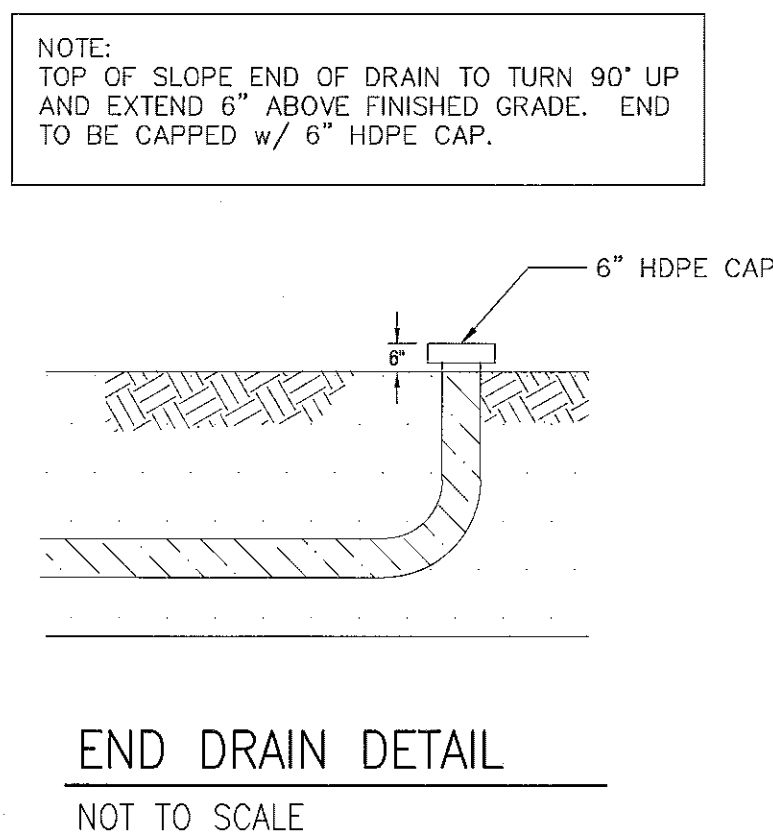




SLOPE DRAIN SECTION
NOT TO SCALE

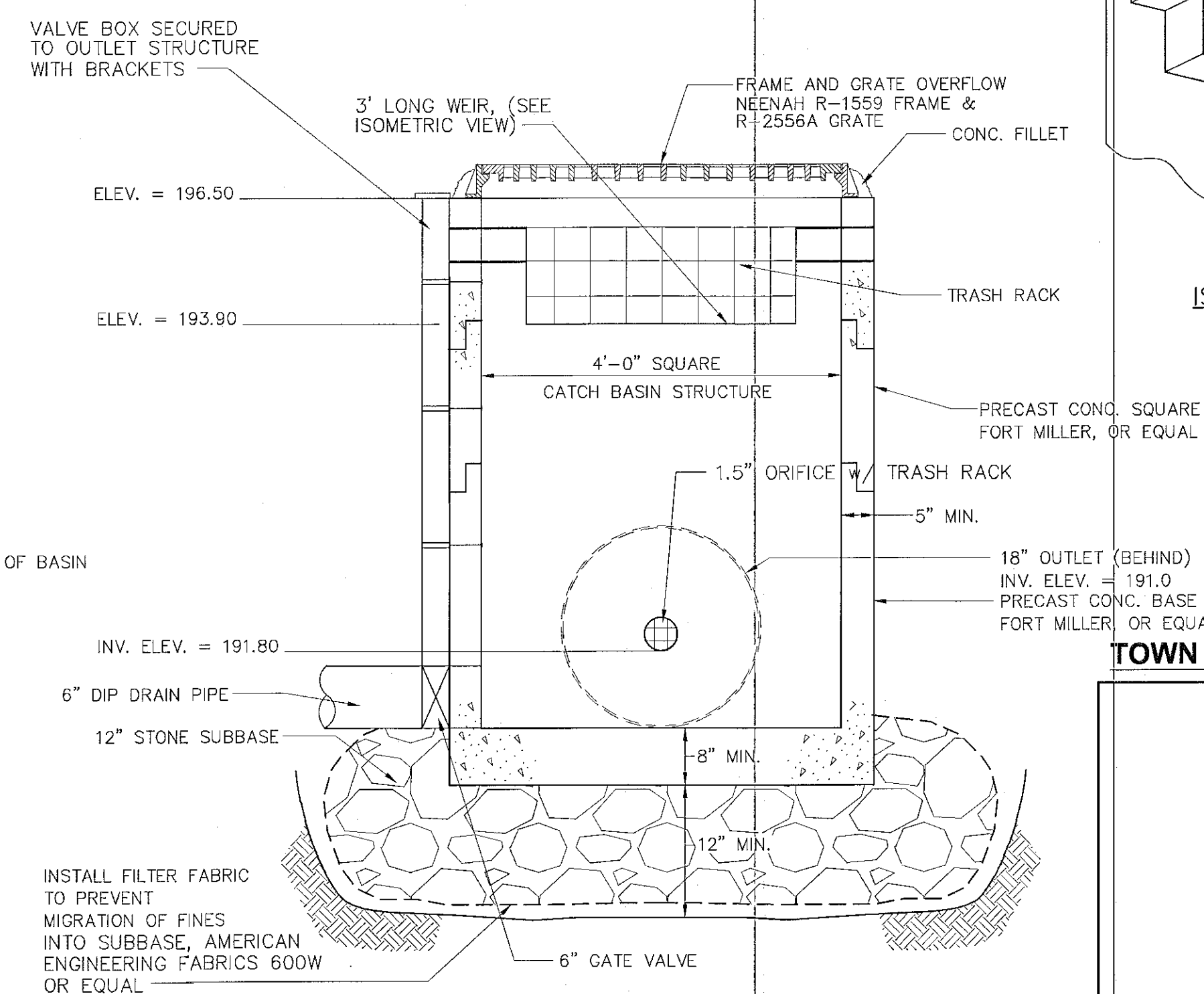
RIP RAP OUTLET DETAIL
NOT TO SCALE

CULVERT DIA. (D)	CULVERT SLOPE, %	NYS DOT STANDARD STONE FILLING APRON MATERIAL	d50	dMAX	MINIMUM APRON THICKNESS (H)	MINIMUM OUTLET APRON LENGTH (FT)
12"	< 8 8-10	LIGHT MEDIUM	8" 9"-12"	9" 14"-18"	18 24	10 10
18"	< 4 4-6 6-8 8-10	LIGHT MEDIUM HEAVY HEAVY	8" 9"-12" 15"-18" 15"-18"	9" 14"-18" 22"-27" 22"-27"	18 24 36 36	10 12 12 18
24"	< 3 3-4 4-6	LIGHT MEDIUM HEAVY	8" 9"-14" 15"-18"	9" 14"-18" 22"-27"	18 24 36	12 16 24
30"	< 1 1-2 2-3 4-6	LIGHT MEDIUM HEAVY HEAVY	8" 9"-12" 15"-18" 15"-18"	9" 14"-18" 22"-27" 22"-27"	18 24 36 36	15 20 26 30
36"	< 2 2-3 3-6	MEDIUM HEAVY HEAVY	9"-12" 15"-18" 15"-18"	14"-18" 22"-27" 22"-27"	24 36 36	24 30 30
42"	< 1 1-2 2-3	MEDIUM HEAVY HEAVY	9"-12" 15"-18" 15"-18"	14"-18" 22"-27" 22"-27"	24 36 36	26 30 35
48"	< 1 1-2 2-3	MEDIUM HEAVY HEAVY	9"-12" 15"-18" 15"-18"	14"-18" 22"-27" 22"-27"	24 36 36	32 36 36



END DRAIN DETAIL

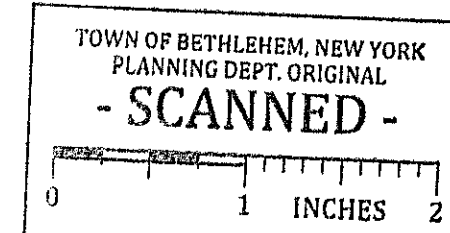
NOT TO SCALE



OUTLET STRUCTURE DETAIL

NOTE: OUTLET STRUCTURE TO MEET THE REQUIREMENTS
OF THE TOWN OF BETHLEHEM

ISOMETRIC VIEW OF WEIR

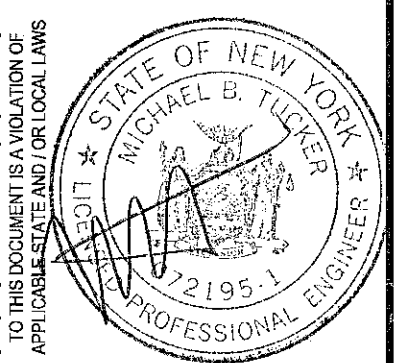


TOWN OF BETHLEHEM APPROVAL

Town of Bethlehem Planning Board
By direction of the Chairman
these plans are hereby Approved.
See fixt sheet for date & signature.

FINAL SUBDIVISION PLANS

RICHARD BOHL
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GLENMONT, NEW YORK 12077



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Manning**

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THE PINES AT NORMANSIDE
LEONARD PLACE
TOWN OF BETHLEHEM, NEW YORK

SITE & DRAINAGE DETAILS

C 11

SHEET NUMBER 11 of 13