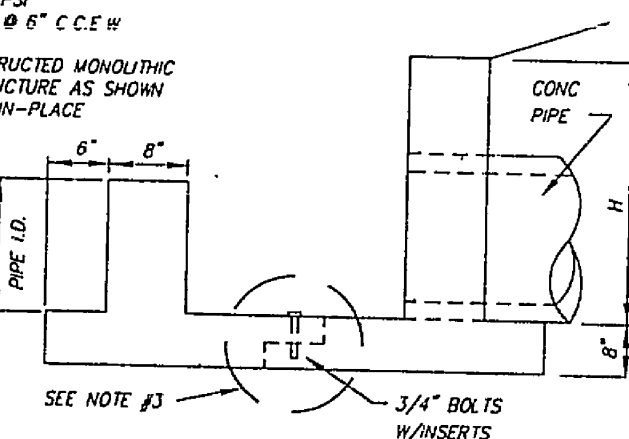
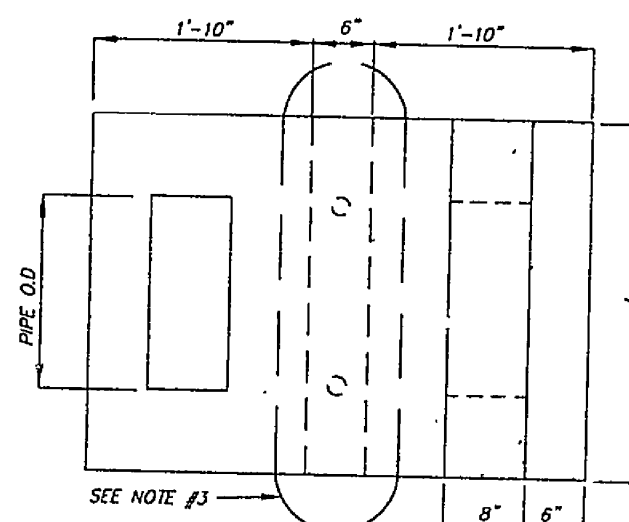
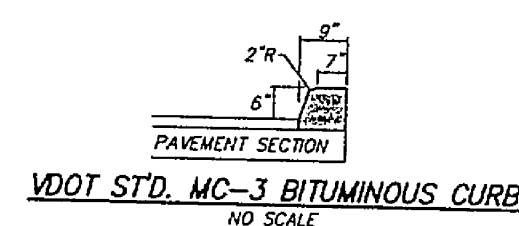
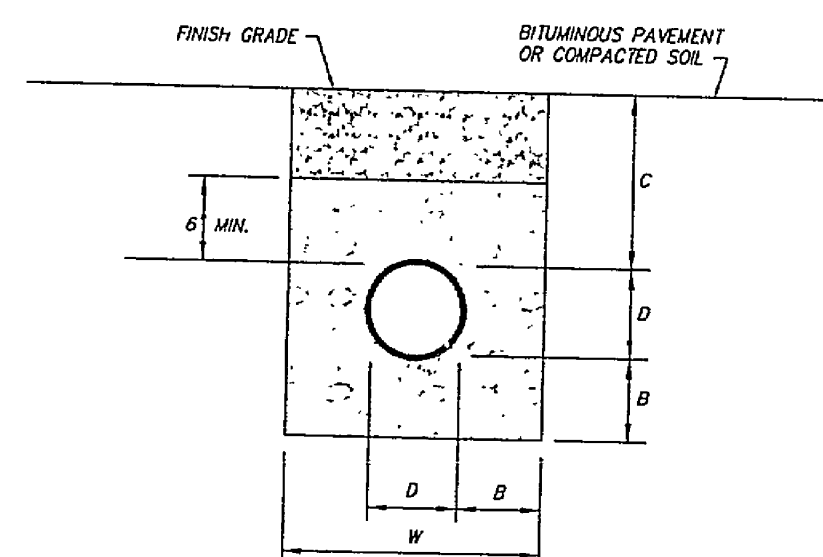




PIPE ENERGY DISSIPATOR
NO SCALE

PIPE	H	L
12"	2.00'	4.0'
15"	2.25'	5.0'
18"	2.50'	6.0'
24"	3.17'	8.0'
30"	3.83'	10.0'
36"	4.50'	12.0'



NOMINAL DIAMETER	MINIMUM THICKNESS	MINIMUM COVER	MIN. TRENCH WIDTH
D	B	C	W
10"	4"	12"	20"
12"	5"	12"	24"
15"	5"	12"	28"
18"	6"	12"	36"
24"	6"	12"	42"

NOTES:

1. CRUSHER-RUN AGGREGATE SHALL BE USED AS THE BEDDING AND ENVELOPE MATERIAL SURROUNDING THE PIPE.
2. THE NEW STORM DRAIN SHALL BE LAID ON GRADE ON A LAYER OF BEDDING MATERIAL AS SHOWN. THE BACKFILL MATERIAL SHOULD BE WELL COMPACTED IN FOUR-INCH (4") LIFTS UNDER THE HAUNCHES, AROUND THE SIDES, AND ABOVE THE PIPE TO THE GRADES SHOWN ON THE PLANS.

STORM DRAIN BEDDING
NO SCALE

STORM DRAIN SCHEDULE

ALL NEW STORM DRAIN STRUCTURES AND STORM DRAIN INSTALLATION SHALL CONFORM TO VDOT STANDARDS AND SPECIFICATIONS, UNLESS OTHERWISE NOTED.

CONCRETE PIPE SHALL BE NEW CLASS III REINFORCED CONCRETE.
"HDPE" PIPE SHALL BE NEW TYPE N-12 HIGH DENSITY POLYETHYLENE,
AS MANUFACTURED BY ADS, INC. OF COLUMBUS, OHIO, OR ENGINEER

NEW HOPE STORM DRAIN SHALL BE BEDDED IN ACCORDANCE WITH THE BEDDING DETAIL SHOWN IN THESE PLANS.

- | | | | | | |
|----|------------------------------------|----|-------------------------------------|----|------------------------------------|
| 1 | PROVIDE VOT STD D-17/TYPE IN GRATE | 7 | PROVIDE VOT STD D-35, L=12" | 13 | PROVIDE VOT STD D-17/TYPE IN GRATE |
| 2 | INVC OUT=1020.50 | 8 | INVC OUT=1021.30 | 14 | INVC IN=CAS-1020.50 |
| 3 | PROVIDE 15'-18" HDPE PIPE & 3.40 X | 9 | PROVIDE 15'-18" HDPE PIPE & 3.50 X | 15 | INVC IN=CAS-1020.52 |
| 4 | INVC OUT=1020.50 | 10 | PROVIDE 15'-18" HDPE PIPE & 3.50 X | 16 | INVC IN=CAS-1020.52 |
| 5 | PROVIDE VOT STD D-17/TYPE IN GRATE | 11 | PROVIDE 15'-18" HDPE PIPE & 3.50 X | 17 | PROVIDE 15'-18" HDPE PIPE & 3.60 X |
| 6 | INVC OUT=1020.50 | 12 | PROVIDE 15'-18" HDPE PIPE & 3.50 X | 18 | INVC OUT=1021.60 |
| 7 | PROVIDE 15'-18" HDPE PIPE & 2.50 X | 13 | PROVIDE 15'-18" HDPE PIPE & 4.53 X | 19 | PROVIDE VOT STD D-17/TYPE IN GRATE |
| 8 | INVC OUT=1021.70 | 14 | INVC OUT=1021.60 | 20 | INVC OUT=1021.60 |
| 9 | PROVIDE 15'-18" HDPE PIPE & 2.50 X | 15 | INVC OUT=1021.60 | 21 | PROVIDE 15'-18" HDPE PIPE & 7.5 X |
| 10 | INVC OUT=1021.70 | 16 | PROVIDE 15'-18" HDPE PIPE & 32.00 X | 22 | INVC OUT=1021.60 |
| 11 | PROVIDE 15'-18" HDPE PIPE & 4.53 X | 17 | PROVIDE 15'-18" HDPE PIPE & 32.00 X | 23 | PROVIDE 15'-18" HDPE PIPE & 0.85 X |
| 12 | INVC OUT=1021.70 | 18 | PROVIDE 15'-18" HDPE PIPE & 32.00 X | 24 | INVC OUT=1021.60 |
| 13 | PROVIDE 15'-18" HDPE PIPE & 4.53 X | 19 | PROVIDE 15'-18" HDPE PIPE & 32.00 X | 25 | INVC OUT=1021.60 |
| 14 | INVC OUT=1021.70 | 20 | PROVIDE 15'-18" HDPE PIPE & 32.00 X | 26 | INVC OUT=1021.60 |
| 15 | PROVIDE 15'-18" HDPE PIPE & 4.53 X | 21 | PROVIDE 15'-18" HDPE PIPE & 32.00 X | 27 | INVC OUT=1021.60 |
| 16 | INVC OUT=1021.70 | 22 | PROVIDE 15'-18" HDPE PIPE & 32.00 X | 28 | INVC OUT=1021.60 |
| 17 | PROVIDE 15'-18" HDPE PIPE & 4.53 X | 23 | PROVIDE 15'-18" HDPE PIPE & 32.00 X | 29 | INVC OUT=1021.60 |
| 18 | INVC OUT=1021.70 | 24 | PROVIDE 15'-18" HDPE PIPE & 32.00 X | 30 | INVC OUT=1021.60 |
| 19 | PROVIDE 15'-18" HDPE PIPE & 4.53 X | 25 | PROVIDE 15'-18" HDPE PIPE & 32.00 X | 31 | INVC OUT=1021.60 |
| 20 | INVC OUT=1021.70 | 26 | PROVIDE 15'-18" HDPE PIPE & 32.00 X | 32 | INVC OUT=1021.60 |
| 21 | PROVIDE 15'-18" HDPE PIPE & 4.53 X | 27 | PROVIDE 15'-18" HDPE PIPE & 32.00 X | 33 | INVC OUT=1021.60 |
| 22 | INVC OUT=1021.70 | 28 | PROVIDE 15'-18" HDPE PIPE & 32.00 X | 34 | INVC OUT=1021.60 |
| 23 | PROVIDE 15'-18" HDPE PIPE & 4.53 X | 29 | PROVIDE 15'-18" HDPE PIPE & 32.00 X | 35 | INVC OUT=1021.60 |
| 24 | INVC OUT=1021.70 | 30 | PROVIDE 15'-18" HDPE PIPE & 32.00 X | 36 | INVC OUT=1021.60 |
| 25 | PROVIDE 15'-18" HDPE PIPE & 4.53 X | 31 | PROVIDE 15'-18" HDPE PIPE & 32.00 X | 37 | INVC OUT=1021.60 |
| 26 | INVC OUT=1021.70 | 32 | PROVIDE 15'-18" HDPE PIPE & 32.00 X | 38 | INVC OUT=1021.60 |
| 27 | PROVIDE 15'-18" HDPE PIPE & 4.53 X | 33 | PROVIDE 15'-18" HDPE PIPE & 32.00 X | 39 | INVC OUT=1021.60 |
| 28 | INVC OUT=1021.70 | 34 | PROVIDE 15'-18" HDPE PIPE & 32.00 X | 40 | INVC OUT=1021.60 |
| 29 | PROVIDE 15'-18" HDPE PIPE & 4.53 X | 35 | PROVIDE 15'-18" HDPE PIPE & 32.00 X | 41 | INVC OUT=1021.60 |
| 30 | INVC OUT=1021.70 | 36 | PROVIDE 15'-18" HDPE PIPE & 32.00 X | 42 | INVC OUT=1021.60 |
| 31 | PROVIDE 15'-18" HDPE PIPE & 4.53 X | 37 | PROVIDE 15'-18" HDPE PIPE & 32.00 X | 43 | INVC OUT=1021.60 |
| 32 | INVC OUT=1021.70 | 38 | PROVIDE 15'-18" HDPE PIPE & 32.00 X | 44 | INVC OUT=1021.60 |
| 33 | PROVIDE 15'-18" HDPE PIPE & 4.53 X | 39 | PROVIDE 15'-18" HDPE PIPE & 32.00 X | 45 | INVC OUT=1021.60 |
| 34 | INVC OUT=1021.70 | 40 | PROVIDE 15'-18" HDPE PIPE & 32.00 X | 46 | INVC OUT=1021.60 |
| 35 | PROVIDE 15'-18" HDPE PIPE & 4.53 X | 41 | PROVIDE 15'-18" HDPE PIPE & 32.00 X | 47 | INVC OUT=1021.60 |
| 36 | INVC OUT=1021.70 | 42 | PROVIDE 15'-18" HDPE PIPE & 32.00 X | 48 | INVC OUT=1021.60 |
| 37 | PROVIDE 15'-18" HDPE PIPE & 4.53 X | 43 | PROVIDE 15'-18" HDPE PIPE & 32.00 X | 49 | INVC OUT=1021.60 |
| 38 | INVC OUT=1021.70 | 44 | PROVIDE 15'-18" HDPE PIPE & 32.00 X | 50 | INVC OUT=1021.60 |
| 39 | PROVIDE 15'-18" HDPE PIPE & 4.53 X | 45 | PROVIDE 15'-18" HDPE PIPE & 32.00 X | 51 | INVC OUT=1021.60 |
| 40 | INVC OUT=1021.70 | 46 | PROVIDE 15'-18" HDPE PIPE & 32.00 X | 52 | INVC OUT=1021.60 |
| 41 | PROVIDE 15'-18" HDPE PIPE & 4.53 X | 47 | PROVIDE 15'-18" HDPE PIPE & 32.00 X | 53 | INVC OUT=1021.60 |
| 42 | INVC OUT=1021.70 | 48 | | | |

COMPACTION NOTES

SUBGRADE FOR AREAS OF PORTLAND CEMENT CONCRETE, BUILDINGS, AND PAVED AREAS SHALL BE COMPACTED TO 95% OF STANDARD PROCTOR (ASTM D698)

FILL BERMS FOR THE TWO STORMWATER MANAGEMENT IMPOUNDMENT AREAS SHALL BE COMPACTED TO 95% OF STANDARD PROCTOR (ASTM D698).

SUBGRADE FOR OTHER NON-STRUCTURAL AREAS (GRASS, LANDSCAPE, ETC.) SHALL BE COMPACTED TO 80% OF STANDARD PROCTOR (ASTM D698).

SHEET #10

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