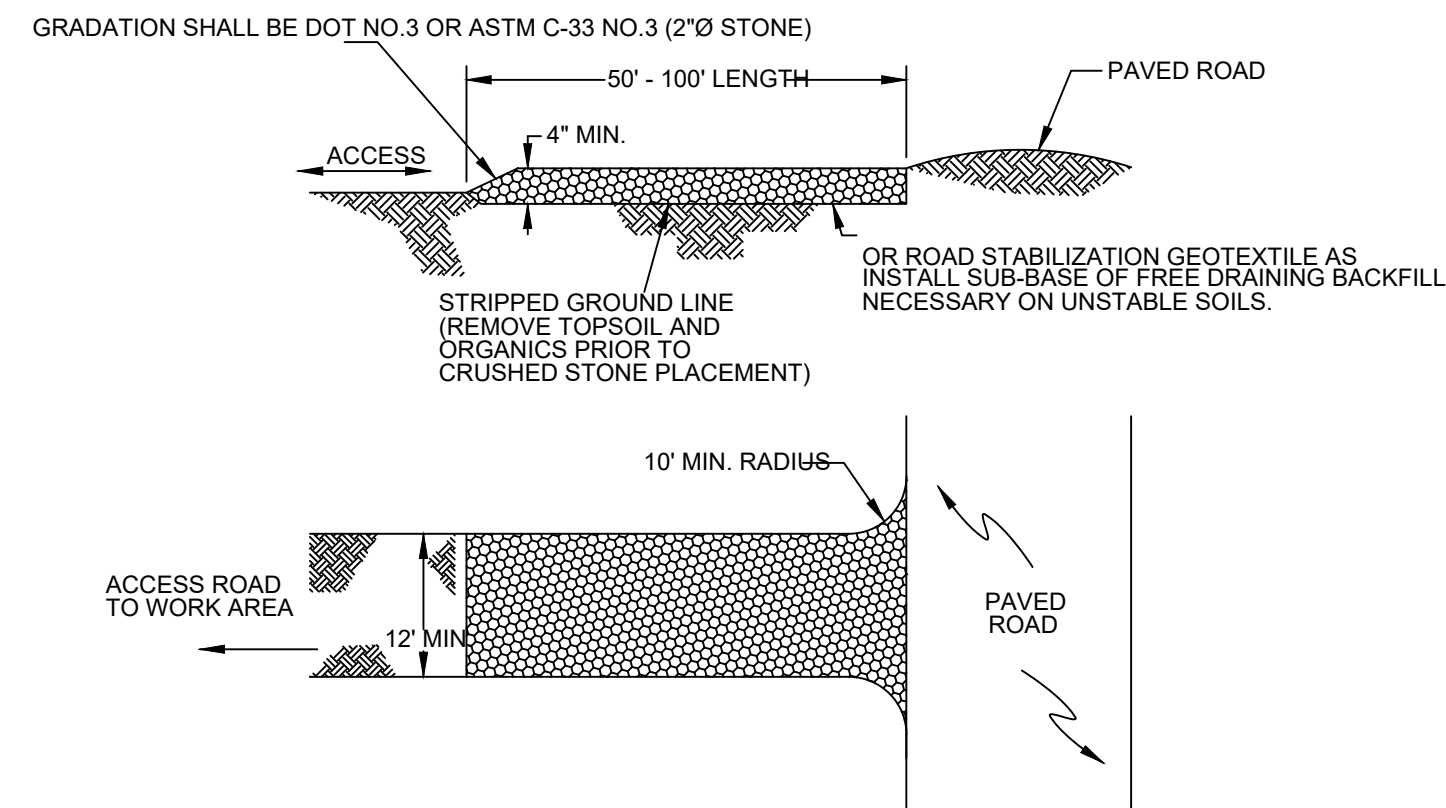
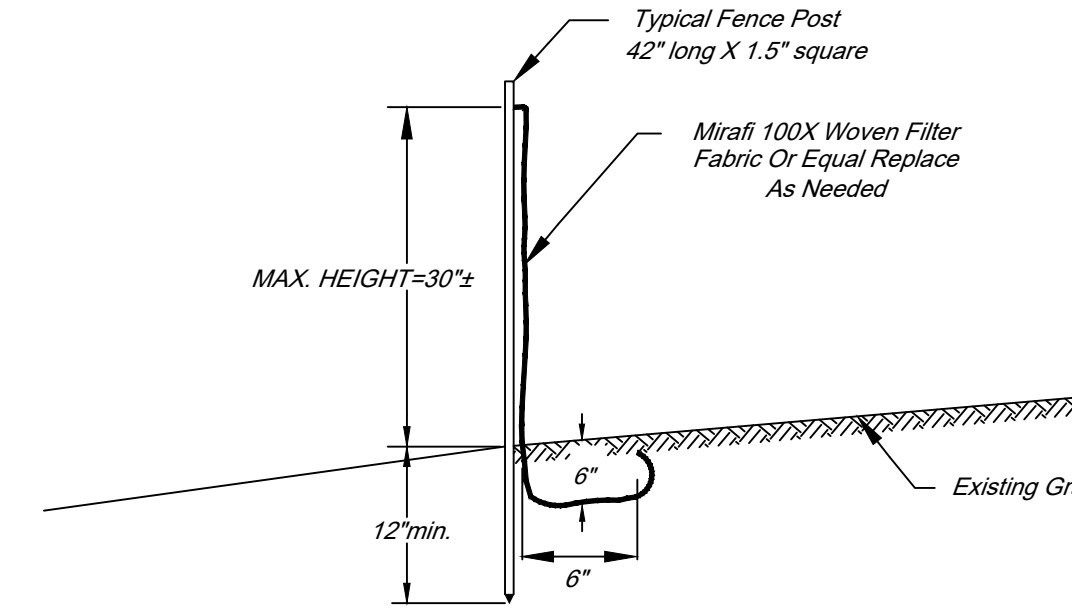


STAKED HAYBALE DETAIL
N.T.S.



CONSTRUCTION ENTRANCE DETAIL
N.T.S.



SEDIMENT FILTER FENCE
N.T.S.

EROSION AND SEDIMENT CONTROL NOTE

1. ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS SET FORTH IN THE STATE OF CONN. "GUIDELINES FOR SEDIMENT AND EROSION CONTROL" 2002 EDITION.
2. LAND DISTURBANCES SHALL BE KEPT AT A MINIMUM AND LAND RESTABILIZATION SCHEDULED AS SOON AS PRACTICABLE.
3. ALL CONTROL MEASURES SHALL BE PROPERLY MAINTAINED IN EFFECTIVE CONDITION THROUGHOUT THE CONSTRUCTION PERIOD AND UNTIL PERMANENT VEGETATION COVER HAS BEEN ESTABLISHED.
4. HAY BALE FILTERS OR FABRIC FENCE SHALL BE INSTALLED ALONG THE TOE OF ALL CRITICAL CUT AND FILL SLOPES.
5. AFTER CONSTRUCTION IS COMPLETED, TOPSOIL SHALL BE EVENLY DISTRIBUTED OVER THE DISTURBED AREA, PROPERLY TREATED, AND SEEDED.
6. GRADING SHALL NOT BE DONE IN SUCH A MANNER SO AS TO DIVERT WATER ONTO THE PROPERTY OF ANOTHER LANDOWNER WITHOUT THE EXPRESSED WRITTEN CONSENT OF THAT LANDOWNER AND THE COMMISSION.
7. ADDITION EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED DURING THE CONSTRUCTION PERIOD IF DEEMED NECESSARY OR REQUIRED BY THE TOWN ENGINEER.

SOIL TESTING DATA

DEEP TEST HOLE DATA
PERFORMED BY: PATRICK BENJAMIN P.E.
WITNESSED BY: WILLIAM R. MILARDO R.S., TOWN SANITARIAN
6.23.21

TH-101
0-10" TOPSOIL
10-20" LIGHT BROWN FIRM GRAVELLY FINE SANDY SILTY LOAM
20-82" COMPACT BROWN GRAVELLY FINE SAND WITH SILT(TILL)
NO WATER, LEDGE OR MOTTLING, ROOTS TO 23"

TH-102
0-10" TOPSOIL
10-21" LIGHT BROWN FIRM GRAVELLY FINE SANDY SILTY LOAM
21-80" COMPACT LIGHT BROWN GRAVELLY FINE SAND WITH SILT(TILL)
NO WATER, LEDGE, MOTTLING AT 34-50", ROOTS TO 20"

TH-103
0-11" TOPSOIL
11-22" LIGHT BROWN FIRM GRAVELLY FINE SANDY SILTY LOAM
22-84" COMPACT LIGHT BROWN GRAVELLY FINE SAND WITH SILT(TILL)
NO WATER, LEDGE, MOTTLING AT 41-68", ROOTS TO 25"

TH-104
0-12" TOPSOIL
12-27" LIGHT BROWN FIRM GRAVELLY FINE SANDY SILTY LOAM
27" COMPACT BROWN GRAVELLY FINE SAND WITH SILT(TILL)
NO WATER, LEDGE OR MOTTLING, ROOTS TO 23"

TH-105
0-12" TOPSOIL
12-27" LIGHT BROWN FIRM GRAVELLY FINE SANDY SILTY LOAM
27-84" COMPACT BROWN GRAVELLY FINE SAND WITH SILT(TILL)
NO WATER, LEDGE, MOTTLING AT 45-71", ROOTS TO 20"

TH-106
0-16" TOPSOIL
16-21" LIGHT BROWN FIRM GRAVELLY FINE SANDY SILTY LOAM
21-68" COMPACT BROWN GRAVELLY FINE SAND WITH SILT(TILL)
NO WATER, LEDGE, MOTTLING AT 24-40", ROOTS TO 21"

TH-107
0-12" TOPSOIL
12-18" LIGHT BROWN FIRM GRAVELLY FINE SANDY SILTY LOAM
18-75" COMPACT BROWN GRAVELLY FINE SAND WITH SILT(TILL)
NO WATER, LEDGE, MOTTLING AT 31-52"

TH-108
0-12" TOPSOIL
12-21" LIGHT BROWN FIRM GRAVELLY FINE SANDY SILTY LOAM
21-88" COMPACT BROWN GRAVELLY FINE SAND WITH SILT(TILL)
NO WATER, LEDGE, OR MOTTLING, ROOTS TO 22"

TH-109
0-17" TOPSOIL
17-22" LIGHT BROWN SILTY LOAM
22-35" COMPACT LIGHT BROWN SILT
35-90" COMPACT RED BROWN FINE SAND AND SILT(TILL)
VERY MOIST AT 74"
NO WATER, LEDGE, MOTTLING AT 35", ROOTS TO 22"

TH-110
0-12" TOPSOIL
12-21" LIGHT BROWN FIRM GRAVELLY FINE SANDY SILTY LOAM
21-93" COMPACT BROWN GRAVELLY FINE SAND WITH SILT(TILL)
NO WATER, LEDGE, OR MOTTLING, ROOTS TO 24"

TH-111
0-14" TOPSOIL
14-28" LIGHT BROWN FIRM GRAVELLY FINE SANDY SILTY LOAM
28-86" COMPACT BROWN GRAVELLY FINE SAND WITH SILT(TILL)
NO WATER, LEDGE, MOTTLING AT 41", ROOTS TO 24"

TH-112
0-15" TOPSOIL
15-18" LIGHT BROWN FIRM GRAVELLY FINE SANDY SILTY LOAM
18-83" COMPACT BROWN GRAVELLY FINE SAND WITH SILT(TILL)
NO WATER, LEDGE, MOTTLING AT 41", ROOTS TO 24"

PERCOLATION TEST DATA
PERFORMED BY: PATRICK BENJAMIN P.E.
6.18.21

PERC TEST-101 DEPTH=20"	12" PRE-SOAK	TIME READING(in)	RATE(min/in)
10:17	5.25		
10:37	7.25		
10:47	8.625	7.3	
10:57	9.25	16	
11:07	9.625	26.7	
11:17	10.25	16	

PERC TEST-102 DEPTH=21"	12" PRE-SOAK	TIME READING(in)	RATE(min/in)
10:18	5.625		
10:28	8		
10:38	9.5	6.7	
10:48	10.625	8.9	
10:58	11.5	11.4	
11:08	12.375	11.4	
11:18	13.125	13.3	

PERC TEST-103 DEPTH=19.5"	12" PRE-SOAK	TIME READING(in)	RATE(min/in)
10:20	7.25		
10:40	9.25		
10:50	10.25	10	
11:00	11	13.3	
11:10	11.5	20	
11:20	11.625	26.7	
11:30	12.25	26.7	

PERC TEST-104 DEPTH=24"	12" PRE-SOAK	TIME READING(in)	RATE(min/in)
10:21	10.25		
10:41	13.5		
10:51	14.875	7.3	
11:01	15.5	16.0	
11:11	16.5	10.0	
11:21	17.25	13.3	

PERC TEST-105 DEPTH=18"	12" PRE-SOAK	TIME READING(in)	RATE(min/in)
1:51	2.625		
2:21	8.25	5.3	
2:31	9.25	10	
2:41	10.25	10	
2:51	10.625	26.7	

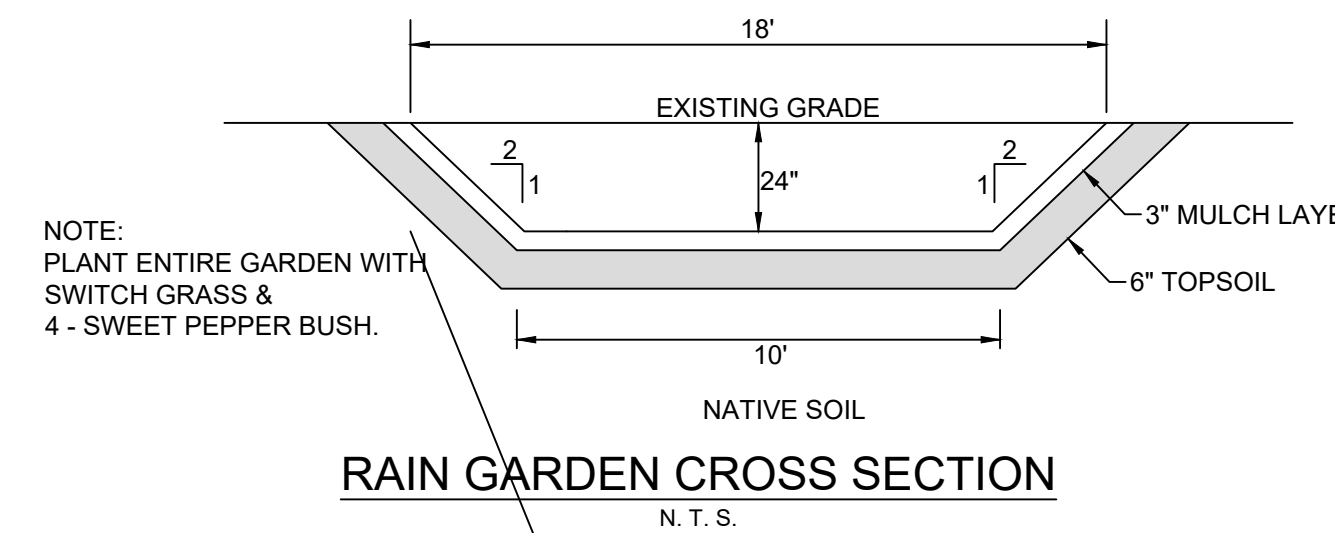
PERC TEST-106 DEPTH=19"	12" PRE-SOAK	TIME READING(in)	RATE(min/in)
1:52	3.75		
2:22	6.75	10	
2:32	7.5	13.3	
2:42	8	20	
2:52	8.375	26.7	

SANITARY DATA

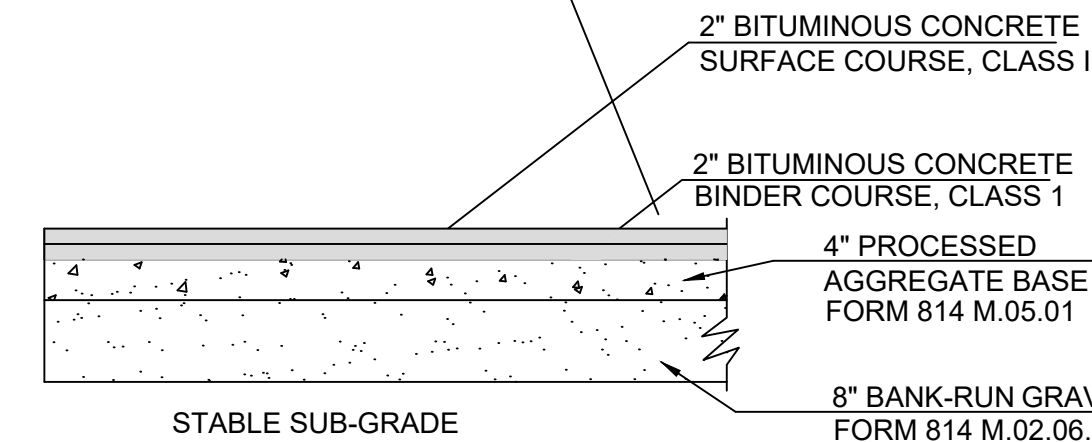
LOT-4
BASIS OF SANITARY DESIGN
NUMBER OF BEDROOMS : 4
DESIGN PERCOLATION RATE = 26.7 MIN/IN
REQUIRED EFFECTIVE LEACHING AREA: 875 SF
USE: 90 LF OF GST 6212 @ 10.0 SF/LF = 900 SF
RESERVE: 50 LF OG GST 6224 @ 18.1 SF/LF = 905 S.F.
MINIMUM LEACHING SYSTEM SPREAD(MLSS)
RESTRICTIVE LAYER(RL)=20", SLOPE=6.5%, HYDRAULIC FACTOR(HF)=34
PERCOLATION FACTOR(PF)=1.5, FLOW FACTOR(FF)=1.75
MLSS=(HF)(PF)(FF) = (34)(1.5)(1.75)=89.25 LF REQUIRED
90 LF PROVIDED

LOT-5
BASIS OF SANITARY DESIGN
NUMBER OF BEDROOMS : 4
DESIGN PERCOLATION RATE = 26.7 MIN/IN
REQUIRED EFFECTIVE LEACHING AREA: 875 SF
USE: 90 LF OF GST 6212 @ 10.0 SF/LF = 900 SF
RESERVE: 50 LF OG GST 6224 @ 18.1 SF/LF = 905 S.F.
MINIMUM LEACHING SYSTEM SPREAD(MLSS)
RESTRICTIVE LAYER(RL)=18", SLOPE=6.7%, HYDRAULIC FACTOR(HF)=34
PERCOLATION FACTOR(PF)=1.5, FLOW FACTOR(FF)=1.75
MLSS=(HF)(PF)(FF) = (34)(1.5)(1.75)=89.25 LF REQUIRED
90 LF PROVIDED

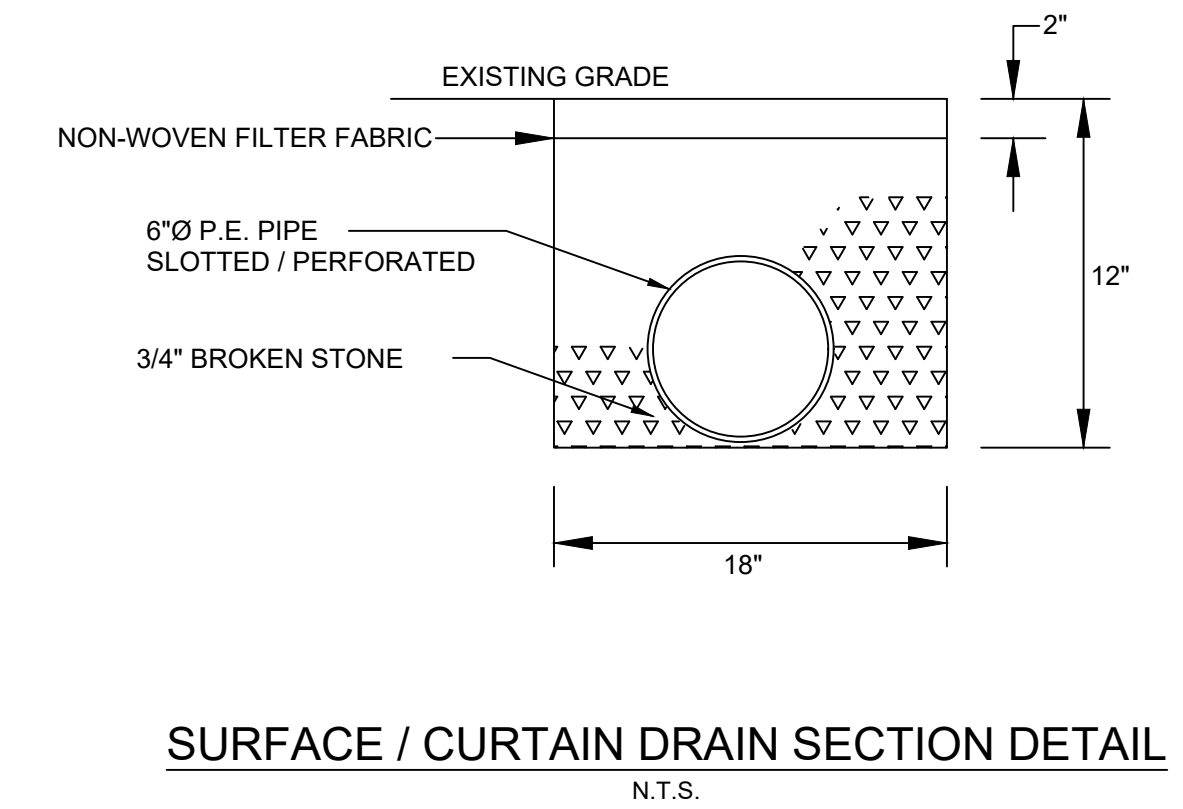
LOT-6
BASIS OF SANITARY DESIGN
NUMBER OF BEDROOMS : 4
DESIGN PERCOLATION RATE = 26.7 MIN/IN
REQUIRED EFFECTIVE LEACHING AREA: 875 SF
USE: 115 LF OF GST 6212 @ 10.0 SF/LF = 1150 SF
RESERVE: 50 LF OG GST 6224 @ 18.1 SF/LF = 905 S.F.
MINIMUM LEACHING SYSTEM SPREAD(MLSS)
RESTRICTIVE LAYER(RL)=18", SLOPE=6.7%, HYDRAULIC FACTOR(HF)=42
PERCOLATION FACTOR(PF)=1.5, FLOW FACTOR(FF)=1.75
MLSS=(HF)(PF)(FF) = (42)(1.5)(1.75)=110.25 LF REQUIRED
115 LF PROVIDED



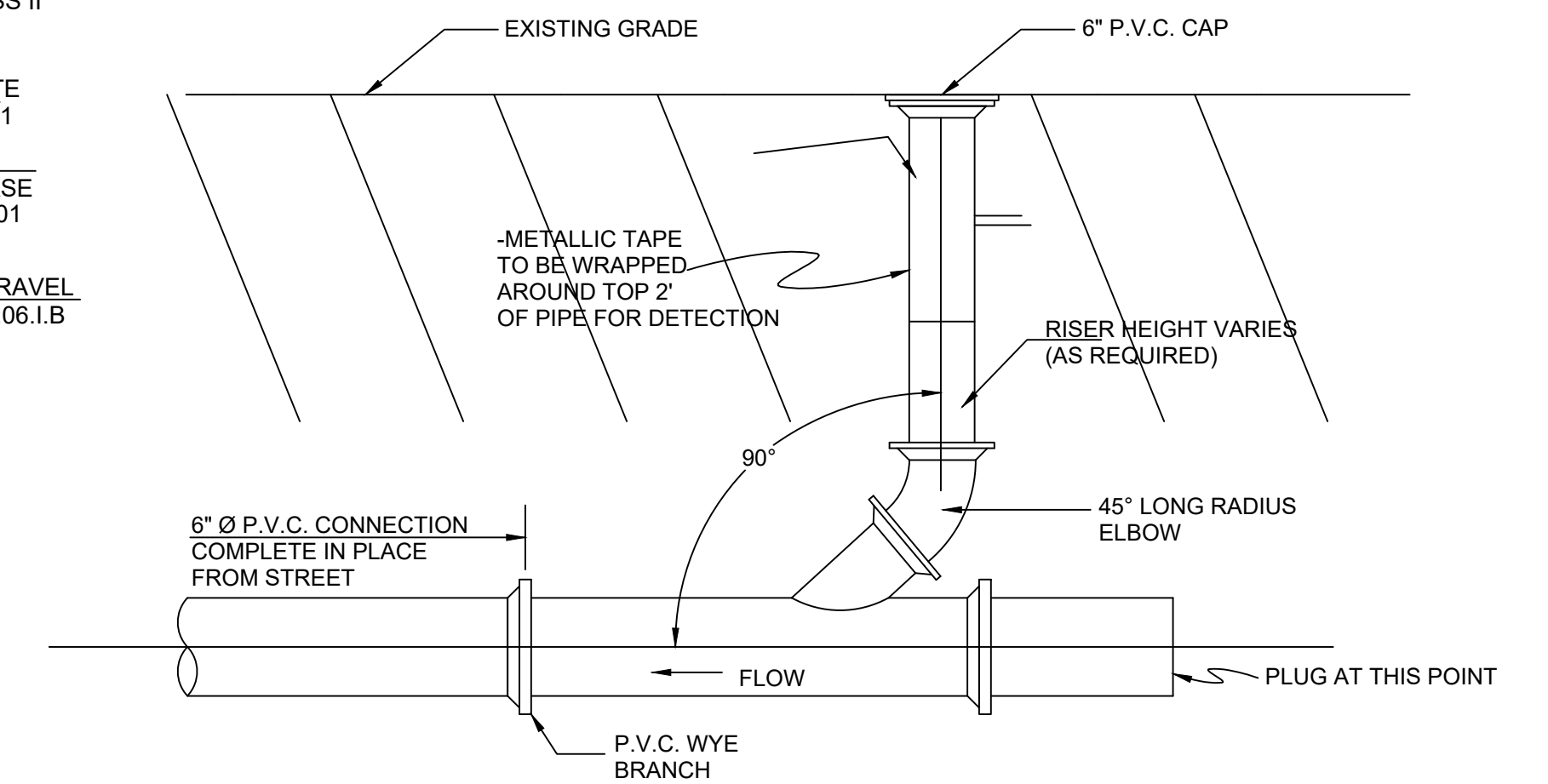
RAIN GARDEN CROSS SECTION
N.T.S.



PAVED APRON CROSS SECTION
N.T.S.



SURFACE / CURTAIN DRAIN SECTION DETAIL
N.T.S.



6" DIA. P.V.C CLEANOUT
N.T.S.

APPROVED BY THE DURHAM
PLANNING & ZONING COMMISSION

FINAL APPROVAL: _____ CHAIRMAN

DATE: _____

EXPIRATION DATE: _____

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REVISIONS			
NO.	DESCRIPTION	BY	DATE
1	ENGINEERING REVIEW	P.B.	7-1-22

#48R SHADY LANE
DURHAM, CT.

PROPERTY OF:
JAY JULIANO

DESIGNED BY: P.M.B.
DRAWN BY: S.M.S.
CHECKED BY: P.M.B.
APPROVED BY: _____

PROJECT NO. 1075-02
SHEET NO. 3 OF 3
SCALE: 1"=40'
DATE: 2-2-22

BASCOM & BENJAMIN, LLC
SURVEYING and ENGINEERING CONSULTANTS
360 MAIN STREET DURHAM, CONN
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