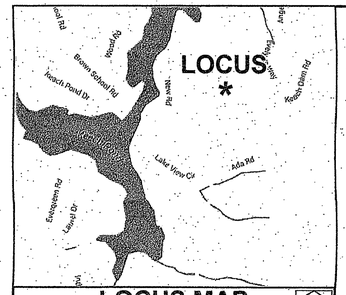

LOCUS MAP
NOT TO SCALE

INDEX OF DRAWINGS

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LEGEND
NOT TO SCALE

- BOUNDARY
- ABUTTER
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- MINOR CONTOUR
- STONEWALL
- TREELINE
- WETLANDS EDGE
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RESERVOIR

AP 12 LOT 211
STEPHEN E. HOPKINS,
THOMAS F. HOPKINS &
ROBERTA M.H. PAINE

Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

EVELYN'S WAY

KEACH DAM ROAD

WINTERGREEN WAY

CART PATH (TYP)

WOODED AREA

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TREELINE (TYP)

EXISTING CART PATHS & FOOT PATHS TO BE UTILIZED FOR RESIDENCE

OPEN SPACE AREA
1,333,711 SF. FT. ±
30.6178 ACRES ±
(66.83 % of TOTAL PROJECT)

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1.1766 ACRES

SUB-LOT 2
44,419 SQ. FT.
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SUB-LOT 3
43,945 SQ. FT.
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SUB-LOT 4
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SUB-LOT 5
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SUB-LOT 8
48,405 SQ. FT.
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43,946 SQ. FT.
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69,529 SQ. FT.
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10' WIDE ACCESS EASEMENT

24' WIDE

1,183 L.F.

PROJECT BENCH MARK
- NAIL (FND) IN POLE 21
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SMITH & SAYLES RESERVOIR

GRAPHIC SCALE
60 0 40 80 160 320
(IN FEET)
1 inch = 80 ft.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
REVIEWED SITE PLAN APPLICATION NO.: 16-0179
DATED APR 05 2017
SEE LETTER OF SAME DATE.
Comments Required

GENERAL NOTES:

1. THE LOCATION AND DEPTH OF EXISTING UTILITIES ARE APPROXIMATE AND HAVE BEEN PLOTTED FROM THE LATEST AVAILABLE INFORMATION. THE UTILITY LOCATIONS ARE APPROXIMATE AND MAY NOT BE ALL INCLUSIVE. THE CONTRACTOR SHALL CHECK AND VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, BOTH OVERHEAD AND UNDERGROUND, AND "DIG-SAFE" MUST BE NOTIFIED PRIOR TO COMMENCING ANY CONSTRUCTION OPERATIONS. RESTORATION AND REPAIR OF DAMAGE TO EXISTING UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR WITH NO ADDITIONAL COST THE OWNER. NO EXCAVATION SHALL COMMENCE UNTIL ALL INVOLVED UTILITY COMPANIES AND/OR TOWN WHOSE FACILITIES MIGHT BE AFFECTED BY ANY WORK TO BE PERFORMED BY THE CONTRACTOR ARE NOTIFIED AT LEAST 72 HOURS IN ADVANCE.

2. THIS SITE DOES NOT LIE WITHIN ANY KNOWN AGRICULTURAL USE, SILVICULTURAL USE, NATURAL HERITAGE OR FARMLAND CONSERVATION AREAS.

3. THERE ARE NO KNOWN EASEMENTS OR RIGHTS OF WAY WITHIN OR ADJACENT TO THIS PARCEL.

4. THERE ARE NO KNOW HISTORIC CEMETERIES WITHIN OR IMMEDIATELY ADJACENT TO THIS PARCEL.

5. WETLANDS REPORT DONE BY NATURAL RESOURCE SERVICES INC. PO BOX 311 HARRISVILLE RHODE ISLAND ON MARCH 2016.

ZONING CRITERIA

ZONING DISTRICT	CONSERVATION
MINIMUM LOT AREA	1.5 ACRES
MINIMUM LOT FRONTAGE	150'
MINIMUM FRONT YARD SETBACK	25'
MINIMUM SIDE YARD SETBACK	25'
MINIMUM REAR YARD SETBACK	30'
MAXIMUM BUILDING COVERAGE	4%
MAXIMUM BUILDING HEIGHT	35'

" I CERTIFY THAT THE INFORMATION SHOWN HEREON HAS BEEN OBTAINED BY AN ACTUAL SURVEY ON THE GROUND, THAT IT IS CORRECT AND THIS SURVEY AND PLAN CONFORM TO A CLASS I STANDARD AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS.

BY: _____
NORBERT A. THERIEN P.L.S.

ASSESSORS PLAT 12 LOT 134
N/F
STEPHEN E. HOPKINS TRUSTEE
DEED BOOK 310 PAGE 730

TOTAL AREA BEING:
1,995,813 SQ. FT. +/-
45.82 ACRES +/-

APPLICANT/OWNER:
STEPHEN E. HOPKINS
PO BOX 66
CHEPACHET, RHODE ISLAND 02814
401-864-0585

Thomas J. Principe, III
No. 9107
REGISTERED PROFESSIONAL ENGINEER

PRINCIPE COMPANY, INC.
ENGINEERING DIVISION
PO BOX 298
TIVERTON, RI 02878
401.816.5385
ESTABLISHED IN 1981
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42 Hamlet Ave., Woonsocket, R.I.
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" WATERVIEW ACRES "
STEPHEN E. HOPKINS TRUSTEE
ASSESSORS PLAT 12 LOT 134
KEACH DAM ROAD
GLOCESTER, RHODE ISLAND

CONSERVATION PLAN

DRAWN BY: W.C.R.	CHECKED BY: N.A.T.	FIELD BY: W.C.R.,S.K.
FEBRUARY 2015	JOB No. 2014-246	SHEET 1 OF 11

\\Plot\C\NATIONAL 2017\2014-246\dwg\2014-246 revised 7 gps.dwg, sheet 1, 1:1

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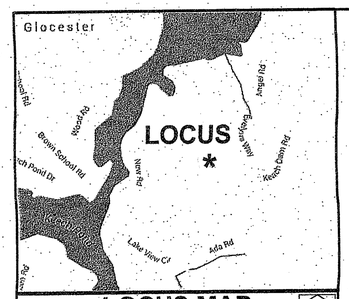

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AP 12 LOT 159
STEPHEN J. & SHERI A. BOOKER
DEED BOOK 265 PAGE 502

I.P. (FND)

S02°22'06"E 961.91'

OPEN SPACE AREA
1,333,711 SF. FT. ±
30.6178 ACRES ±
(66.83 % of TOTAL PROJECT)

DRAINAGE EASEMENT "C"
68,529 SQ. FT.
1.5732 ACRES

SUB-LOT 8
48,406 SQ. FT.
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SUB-LOT 9
43,946 SQ. FT.
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(66.83 % of TOTAL PROJECT)

WINTERGREEN WAY — 1,183 L.F. — 24' WIDE

KEACH DAM ROAD — 1,183 L.F. — 24' WIDE

EASEMENT R=50.00' L=10.07'

10' WIDE ACCESS EASEMENT

TREE LINE (TYP)

CART PATH (TYP)

EXISTING BITUMINOUS PAVED ENTRANCE TO BE REMOVED

PROPOSED DEVELOPMENT SIGN

EDGE OF PAVEMENT (TYP)

PROJECT BENCH MARK
NAIL (FND) IN POLE 21
ELEV. = 481.52
(NAVD 88 DATUM)

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DAVID J. & MARY E. ARSENAULT
DEED BOOK 328 PAGE 223

AP 12 LOT CB-42
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DEED BOOK 684 PAGE 96

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
REVIEWED SITE PLAN APPLICATION NO.: 16-0179
APR 06 2017
DATED: LETTER OF SAME DATE
Jeanne D. Jennek

LEGEND
NOT TO SCALE

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REGISTERED PROFESSIONAL ENGINEER

NORBERT A. THERIEN
No. 1739
REGISTERED PROFESSIONAL LAND SURVEYOR

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BY: NORBERT A. THERIEN P.L.S.

GRAPHIC SCALE
(IN FEET)
1 inch = 50 ft.

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" WATERVIEW ACRES "
STEPHEN E. HOPKINS TRUSTEE
ASSESSORS PLAT 12 LOT 134
KEACH DAM ROAD
GLOCESTER, RHODE ISLAND

BOUNDARY SURVEY PLAN
SHEET 1 OF 2

DRAWN BY: W.C.R.	CHECKED BY: N.A.T.	FIELD BY: W.C.R.,S.K.
FEBRUARY 2015	JOB No. 2014-246	SHEET 2 OF 11

\\Plot\C\NATIONAL 2017\2014-246\dwg\2014-246 revised 7 gps.dwg, sheets 2-recordable, 1:1

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DATED APR 06 2017
SEE LETTER OF SAME DATE.
Martin D. Wencek

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H. STATE PLANE COORDINATES

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THOMAS J. CASH TRUSSEE
DEED BOOK 550 PAGE 338

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BY: Norbert A. Therien
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MAR 30 2017

" WATERVIEW ACRES "
STEPHEN E. HOPKINS TRUSTEE
ASSESSORS PLAT 12 LOT 134
KEACH DAM ROAD
GLOCESTER, RHODE ISLAND

BOUNDARY SURVEY PLAN
SHEET 2 OF 2

DRAWN BY: W.C.R.	CHECKED BY: N.A.T.	FIELD BY: W.C.R., S.K.
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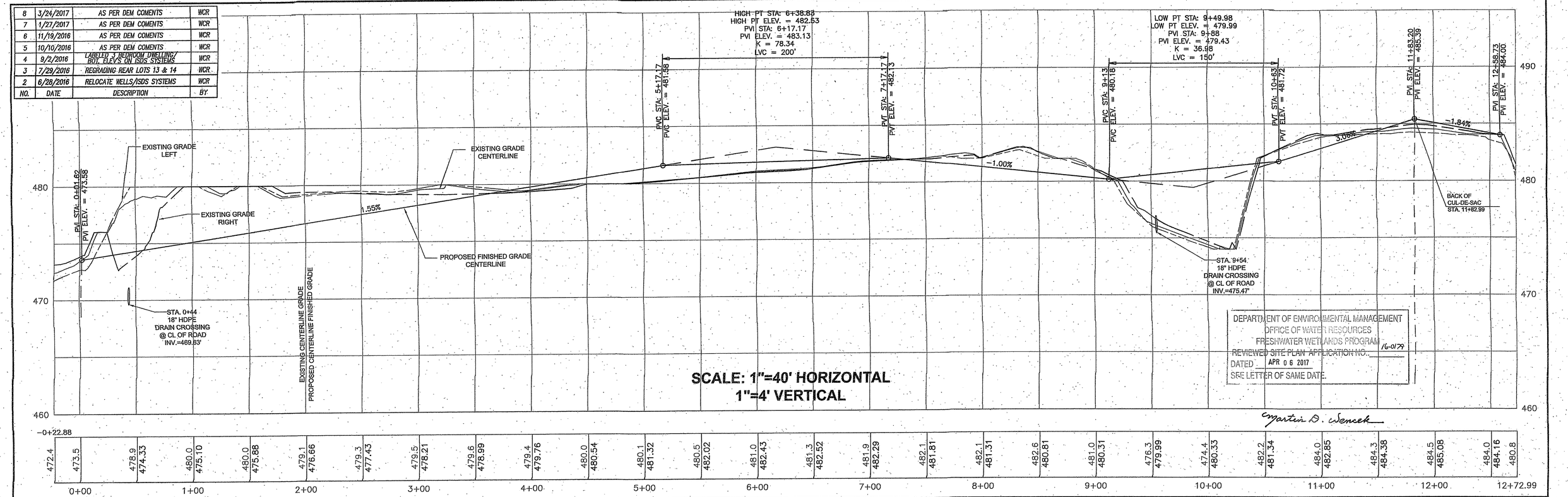

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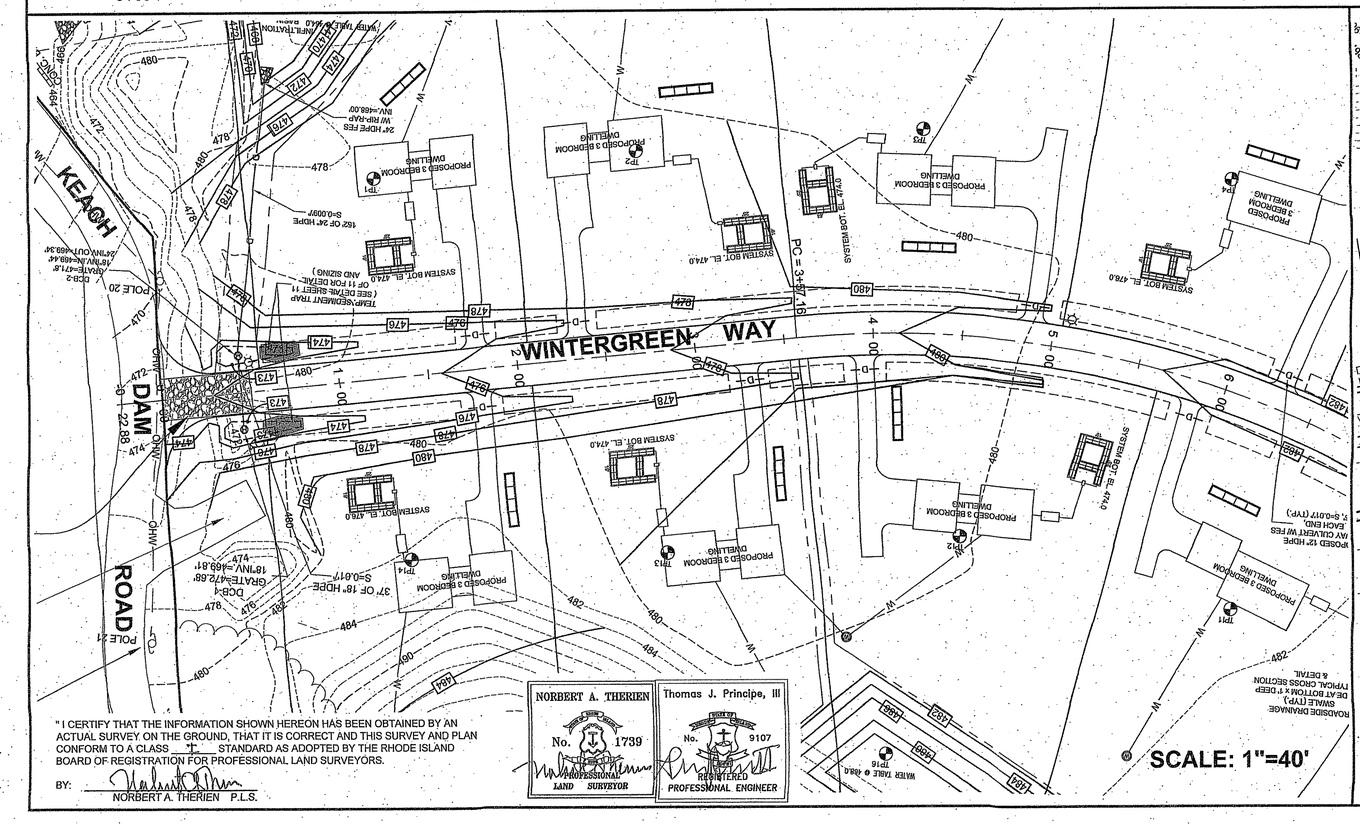
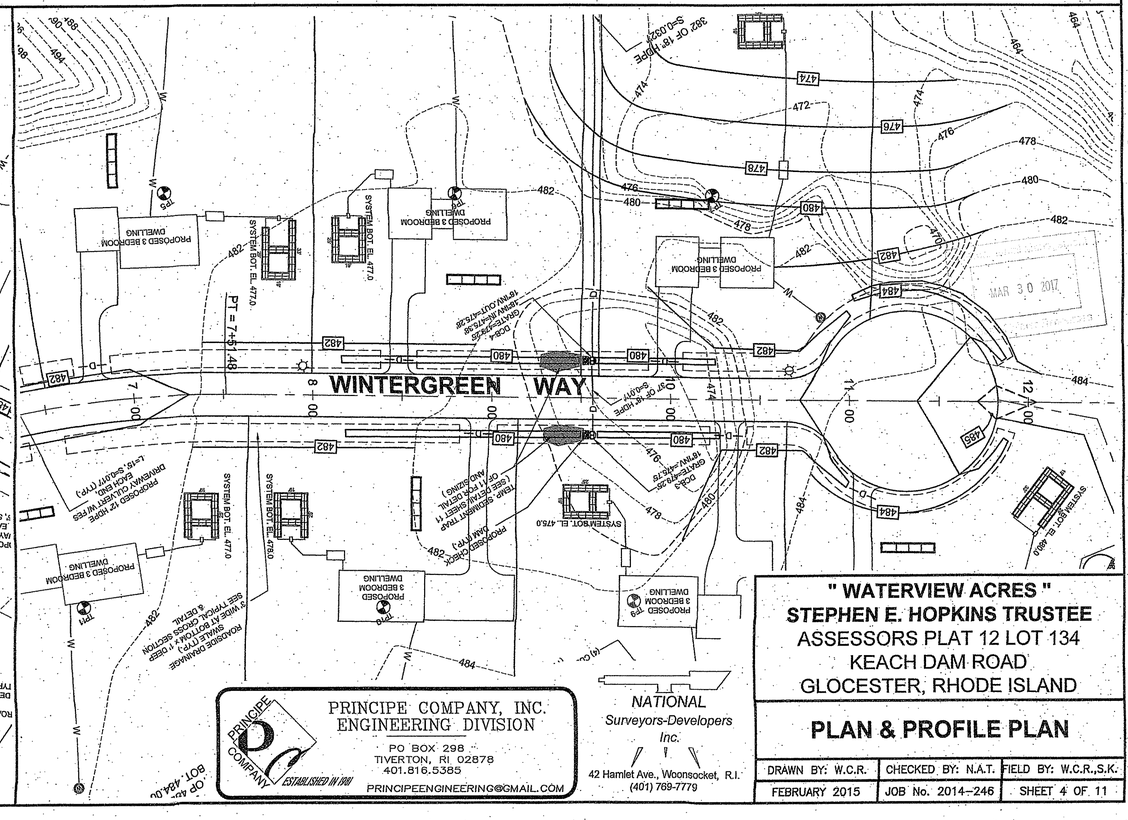
Martin D. Wencek





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BY: _____
NORBERT A. THERIEN P.L.S.

NORBERT A. THERIEN No. 1739 PROFESSIONAL LAND SURVEYOR

Thomas J. Principe, III No. 9107 REGISTERED PROFESSIONAL ENGINEER

PRINCIPE COMPANY, INC.
ENGINEERING DIVISION
PO BOX 298
TIVERTON, RI 02878
401.816.5385
PRINCIPEENGINEERING@GMAIL.COM
ESTABLISHED IN 1981

NATIONAL
Surveyors-Developers
Inc.
42 Hamlet Ave., Woonsocket, R.I.
(401) 769-7779

" WATERVIEW ACRES "
STEPHEN E. HOPKINS TRUSTEE
ASSESSORS PLAT 12 LOT 134
KEACH DAM ROAD
GLOCESTER, RHODE ISLAND

PLAN & PROFILE PLAN

DRAWN BY: W.C.R.	CHECKED BY: N.A.T.	FIELD BY: W.C.R.,S.K.
FEBRUARY 2015	JOB No. 2014-246	SHEET 4 OF 11

\\Plot\C\NATIONAL 2017\2014-246\dwg\2014-246 revised 7 gps.dwg, sheet 4-profile, 1:1

NO.	DATE	DESCRIPTION	BY
8	3/24/2017	AS PER DEM COMMENTS	WCR
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3	7/29/2016	REGRADING REAR LOTS 13 & 14	WCR
2	6/28/2016	RELOCATE WELLS/ISDS SYSTEMS	WCR

LOCUS

LOCUS MAP
NOT TO SCALE

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
REVIEWED SITE PLAN APPLICATION NO.: 16-0179
DATED APR 0 6 2017
SEE LETTER OF SAME DATE.
Martin D. Wencek

RECEIVED
MAR 30 2017
DEPT. OF ENVIRONMENTAL MANAGEMENT

Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

AP 12 LOT 157
THOMAS J. CASH TRUSSEE
DEED BOOK 550 PAGE 338

AP 12 LOT 131
ANTHONY I. HAWKES
DEED BOOK 384 PAGE 211

AP 12 LOT 61
DEREK A. LUTHER
DEED BOOK 663 PAGE 302

AP 12 LOT 166
JAMES D. SAUCIER
DEED BOOK 649 PAGE 33

AP 12 LOT 130
MARISSA J. & DENNIS R. DANVILLE
DEED BOOK 667 PAGE 218

AP 12 LOT 159
STEPHEN J. & SHERI A. BOOKER
DEED BOOK 265 PAGE 502

AP 12 LOT 133
STEPHEN P. & LAURA D. MAGUIRE
DEED BOOK 683 PAGE 90

AP 12 LOT 132
ERNEST W. SIROIS
TRUSSEE OF THE IREVCABLE SIROIS TRUST

SMITH & SAYLES RESERVOIR

AP 12 LOT 211
STEPHEN E. HOPKINS,
THOMAS F. HOPKINS &
ROBERTA M.H. PAINE

EVELYN'S WAY

KEACH ROAD

DAM ROAD

WINTERGREEN WAY

CART PATH (TYP)

WOODED AREA

BEACH

OPEN SPACE AREA
1,333,711 SF. FT. ±
30.6178 ACRES ±
(66.83 % of TOTAL PROJECT)

OPEN SPACE AREA
1,333,711 SF. FT. ±
30.6178 ACRES ±
(66.83 % of TOTAL PROJECT)

EXISTING CART PATHS & FOOT PATHS
TO BE UTILIZED FOR RESIDENCE

* NO REGRADING IN LOT AROUND PROPOSED ISDS LOCATION .

SUB-LOT 1
51,253 SQ. FT.
1.1766 ACRES

SUB-LOT 2
44,419 SQ. FT.
1.0197 ACRES

SUB-LOT 3
43,945 SQ. FT.
1.0089 ACRES

SUB-LOT 4
43,735 SQ. FT.
1.0040 ACRES

SUB-LOT 5
46,530 SQ. FT.
1.0682 ACRES

SUB-LOT 6
43,946 SQ. FT.
1.0089 ACRES

SUB-LOT 7
43,579 SQ. FT.
1.0004 ACRES

SUB-LOT 8
46,405 SQ. FT.
1.0112 ACRES

SUB-LOT 9
43,946 SQ. FT.
1.0089 ACRES

SUB-LOT 10
43,946 SQ. FT.
1.0089 ACRES

SUB-LOT 11
43,645 SQ. FT.
1.0020 ACRES

SUB-LOT 12
43,564 SQ. FT.
1.0001 ACRES

SUB-LOT 13
43,946 SQ. FT.
1.0089 ACRES

SUB-LOT 14
43,946 SQ. FT.
1.0089 ACRES

DRAINAGE EASEMENT "A"
65,272 SQ. FT.
1.498 ACRES

DRAINAGE EASEMENT "B"
39,074 SQ. FT.
0.8970 ACRES

DRAINAGE EASEMENT "C"
28,634 SQ. FT.
0.6572 ACRES

INFILTRATION AREA "EAST"
TOP=488.00'
BOT.=484.00'

INFILTRATION AREA "NORTHWEST"
TOP=483.00'
BOT.=482.00'

10' WIDE ACCESS EASEMENT

24' WIDE - 1,183 L.F.

PROJECT BENCH MARK
NAIL (FND) IN POLE 21
ELEV. = 481.52
(NAVD 88 DATUM)

EXISTING BITUMINOUS PAVED ENTRANCE TO BE REMOVED

CONSTRUCTION ACCESS (SEE DETAIL-SHEET 10)

AP 12 LOT 135
DAVID J. & MARY E. ARSENAULT
DEED BOOK 328 PAGE 223

* DCB-2 & DCB-4 ARE TO BE STORMCEPTOR STC900 SERIES

PROPOSED DEVELOPMENT SIGN

EDGE OF PAVEMENT (TYP)

AP 12 LOT CB-42
JOEL B. KINGMAN
DEED BOOK 684 PAGE 96

AP 12 LOT CB-43
GLENN H. & BEVERLY E. SHIPPEE
DEED BOOK 95 PAGE 160

AP 12 LOT 137
TINA LOGAN
DEED BOOK 498 PAGE 75

AP 12 LOT 215
DAVID BOURDEAU
DEED BOOK 342 PAGE 220

AP 12 LOT SS-14
JOHN T. GUERTIN JR.
DEED BOOK 190 PAGE 403

AP 12 LOT SS-15
CHARLES A. & LINDA K. DUBOIS
DEED BOOK 254 PAGE 423

AP 12 LOT SS-16
RUSSELL B. AMATO
DEED BOOK 244 PAGE 292

AP 12 LOT SS-17
JOSEPH A. HEMLER
DEED BOOK 388 PAGE 311

AP 12 LOT SS-18
EDWARD F. & AUDREY M. GOULD
DEED BOOK 574 PAGE 204

AP 12 LOT SS-19
JOHN T. GUERTIN JR.
DEED BOOK 190 PAGE 1001

LEGEND
NOT TO SCALE

- BOUNDARY
- ABUTTER
- MAJOR CONTOUR
- MINOR CONTOUR
- STONEWALL
- TREELINE
- WETLANDS EDGE
- 50' PERIMETER WETLAND
- 100' RIVERBANK WETLAND
- 200' RIVERBANK WETLAND
- 200' ISDS HDROLOGIC LINE
- BUILDING ENVELOPE
- LIMITS OF DISTURBANCE/ EROSION CONTROL
- OHW — ELECTRIC LINE
- SOIL EVALUATION HOLE
- IRON PIN
- BOUND
- DRILL HOLE
- PROPOSED WELL
- EXISTING UTILITY POLE
- PROPOSED LIGHT POLE

GENERAL NOTES:

1. THE LOCATION AND DEPTH OF EXISTING UTILITIES ARE APPROXIMATE AND HAVE BEEN PLOTTED FROM THE LATEST AVAILABLE INFORMATION. THE UTILITY LOCATIONS ARE APPROXIMATE AND MAY NOT BE ALL INCLUSIVE. THE CONTRACTOR SHALL CHECK AND VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, BOTH OVERHEAD AND UNDERGROUND, AND "DIG-SAFE" MUST BE NOTIFIED PRIOR TO COMMENCING ANY CONSTRUCTION OPERATIONS. RESTORATION AND REPAIR OF DAMAGE TO EXISTING UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR WITH NO ADDITIONAL COST THE OWNER. NO EXCAVATION SHALL COMMENCE UNTIL ALL INVOLVED UTILITY COMPANIES AND/OR TOWN WHOSE FACILITIES MIGHT BE AFFECTED BY ANY WORK TO BE PERFORMED BY THE CONTRACTOR ARE NOTIFIED AT LEAST 72 HOURS IN ADVANCE.

2. THIS SITE DOES NOT LIE WITHIN ANY KNOWN AGRICULTURAL USE, SILVICULTURAL USE, NATURAL HERITAGE OR FARMLAND CONSERVATION AREAS.

3. THERE ARE NO KNOWN EASEMENTS OR RIGHTS OF WAY WITHIN OR ADJACENT TO THIS PARCEL.

4. THERE ARE NO KNOW HISTORIC CEMETERIES WITHIN OR IMMEDIATELY ADJACENT TO THIS PARCEL.

5. WETLANDS REPORT DONE BY NATURAL RESOURCE SERVICES INC. PO BOX 311 HARRISVILLE RHODE ISLAND ON MARCH 2016.

ZONING CRITERIA

ZONING DISTRICT	CONSERVATION
MINIMUM LOT AREA	1.5 ACRES
MINIMUM LOT FRONTAGE	150'
MINIMUM FRONT YARD SETBACK	25'
MINIMUM SIDE YARD SETBACK	25'
MINIMUM REAR YARD SETBACK	30'
MAXIMUM BUILDING COVERAGE	4%
MAXIMUM BUILDING HEIGHT	35'

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BY: _____
NORBERT A. THERIEN P.L.S.

GRAPHIC SCALE
60 0 40 80 160 320
(IN FEET)
1 inch = 80 ft.

ASSESSORS PLAT 12 LOT 134
N/F
STEPHEN E. HOPKINS TRUSTEE
DEED BOOK 310 PAGE 730

TOTAL AREA BEING:
1,995,813 SQ. FT. +/-
45.82 ACRES +/-

APPLICANT/OWNER:
STEPHEN E. HOPKINS
PO BOX 66
CHEPACHET, RHODE ISLAND 02814
401-864-0585

NORBERT A. THERIEN
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" WATERVIEW ACRES "
STEPHEN E. HOPKINS TRUSTEE
ASSESSORS PLAT 12 LOT 134
KEACH DAM ROAD
GLOCESTER, RHODE ISLAND

WETLANDS PLAN

DRAWN BY: W.C.R.	CHECKED BY: N.A.T.	FIELD BY: W.C.R., S.K.
FEBRUARY 2015	JOB No. 2014-246	SHEET 5 OF 11

\\Plot\C\NATIONAL 2017\2014-246\dwg\2014-246 revised 7 gps.dwg, sheet 5-wetlands plan, 1:1

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LEGEND
NOT TO SCALE

- BOUNDARY
- ABUTTER
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- MINOR CONTOUR
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- 50' PERIMETER WETLAND
- 100' RIVERBANK WETLAND
- 200' RIVERBANK WETLAND
- 200' ISDS HOROLOGIC LINE
- BUILDING ENVELOPE
- LIMITS OF DISTURBANCE/ EROSION CONTROL
- OHW ELECTRIC LINE
- SOIL EVALUATION HOLE
- IRON PIN
- BOUND
- DRILL HOLE
- PROPOSED WELL
- EXISTING UTILITY POLE
- PROPOSED LIGHT POLE

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NAIL (FND) IN POLE 21
ELEV. = 481.52
(NAVD 88 DATUM)

EXISTING BITUMINOUS PAVED ENTRANCE TO BE REMOVED

CONSTRUCTION ACCESS (SEE DETAIL-SHEET 10)

* DCB-2 & DCB-4 ARE TO BE STORMCEPTOR STC900 SERIES

PROPOSED DEVELOPMENT SIGN

EDGE OF PAVEMENT (TYP)

OPEN SPACE AREA
1,333,711 SF. FT. ±
30.6178 ACRES ±
(66.83 % of TOTAL PROJECT)

SUB-LOT 1
51,253 SQ. FT.
1.1766 ACRES

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44,419 SQ. FT.
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1.0089 ACRES

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SUB-LOT 7
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1.0004 ACRES

SUB-LOT 8
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1.1112 ACRES

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DRAINAGE EASEMENT "C"
68,529 SQ. FT.
1.5732 ACRES

1,183 L.F. 24' WIDE WAY

WINTERGREEN COURT

KEACH ROAD

DAM ROAD

CART PATH (TYP)

WOODED AREA

10' WIDE ACCESS EASEMENT

LIMITS OF DISTURBANCE

TREE LINE (TYP)

EXISTING HILL OF LOAM TO BE DISTRIBUTED ON SITE

* NO REGRADING IN LOT AROUND PROPOSED ISDS LOCATION .

DRAINAGE – SHWT SEPARATION

LOT	FG @ DRAIN	BOT. DRAIN	SHWT EL.	SEPARATION
1	480.5	476.0	472.5	3.5'
2	480.5	476.0	470.0	6.0'
3	481.0	476.5	470.0	6.5'
4	481.0	476.5	470.0	6.5'
5	482.0	477.5	469.0	8.5'
6	482.0	477.5	473.0	4.5'
7	480.0	475.5	466.0	9.5'
8	485.0	480.5	474.0	6.5'
9	484.0	479.5	473.0	6.5'
10	482.0	477.5	474.5	3.5'
11	482.0	477.5	472.5	5.0'
12	480.0	475.5	471.0	4.5'
13	480.0	475.5	471.0	4.5'
14	482.0	477.5	472.5	5.0'
BASIN SOUTHWEST		468.0	464.0	4.0'
BASIN NORTHWEST		462.0	449.0	13.0'
BASIN EAST		484.0	473.5/468.0	10.5'

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BY: Norbert A. Therien
NORBERT A. THERIEN P.L.S.

GRAPHIC SCALE
50 0 25 50 100 200
(IN FEET)
1 inch = 50 ft.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
REVIEWED SITE PLAN APPLICATION NO. 16-0179
DATED APR 06 2017
SEE LETTER OF SAME DATE.
Martin D. Wencek

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ASSESSORS PLAT 12 LOT 134
KEACH DAM ROAD
GLOCESTER, RHODE ISLAND

DRAINAGE & GRADING PLAN

DRAWN BY: W.C.R.	CHECKED BY: N.A.T.	FIELD BY: W.C.R.,S.K.
FEBRUARY 2015	JOB No. 2014-246	SHEET 6 OF 11

\Plot\C\NATIONAL 2017\2014-246\dwg\2014-246 revised 7 gps.dwg, sheet 6-drainage n grading, 1:1

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RI STATE PLANE COORDINATES

RECEIVED
MAR 30 2017
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

WOODED AREA

CART PATH (TYP)

LOW 462

TC

WATER TABLE @ 473.50 TP17

WATER TABLE @ 469.0 TP16

WATER TABLE @ 464.0 TP15

KEACH DAM ROAD

KEACH

DAM

POLE 21

POLE 20

POLE 19

EXISTING BITUMINOUS PAVED ENTRANCE TO BE REMOVED

EDGE OF PAVEMENT (TYP)

ROAD

STONE RETAINING WALL

PROPOSED SOIL & EROSION CONTROL FENCE / TRENCH

TREE LINE (TYP)

CART PATH (TYP)

PROJECT BENCH MARK
NAIL (FND) IN POLE 21
ELEV. = 481.52
(NAVD 88 DATUM)

LEGEND
NOT TO SCALE

- BOUNDARY
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(IN FEET)
1 inch = 50 ft.

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GLOCESTER, RHODE ISLAND

DRAINAGE & GRADING PLAN
PRE-WATERSHED

DRAWN BY: W.C.R.	CHECKED BY: N.A.T.	FIELD BY: W.C.R.,S.K.
FEBRUARY 2015	JOB No. 2014-246	SHEET 7 OF 11

lot\C\NATIONAL 2017\2014-246\dwg\2014-246 revised 7 gps.dwg, sheet 7 pre-watershed, 1:1

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68,529 SQ. FT.
1.5732 ACRES

SLOPE E

SWALE NE

SWALE NW

SWALE SE

SWALE SW

BASIN SW

LOW 474

LOW 462

KEACH

KEACH DAM ROAD

WINTERGREEN WAY

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10' WIDE ACCESS EASEMENT

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No. 1739
PROFESSIONAL LAND SURVEYOR

" I CERTIFY THAT THE INFORMATION SHOWN HEREON HAS BEEN OBTAINED BY AN ACTUAL SURVEY ON THE GROUND, THAT IT IS CORRECT AND THIS SURVEY AND PLAN CONFORM TO A CLASS I STANDARD AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS.

BY: NORBERT A. THERIEN P.L.S.

PRINCIPE COMPANY, INC.
ENGINEERING DIVISION
PO BOX 298
TIVERTON, RI 02878
401.816.5385
PRINCIPEENGINEERING@GMAIL.COM
ESTABLISHED IN 1981

NATIONAL
Surveyors-Developers
Inc.
42 Hamlet Ave., Woonsocket, R.I.
(401) 769-7779

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
REVIEWED SITE PLAN APPLICATION NO.: 16-0179
DATED APR 06 2017
SEE LETTER OF SAME DATE.
Marcia D. Wenck

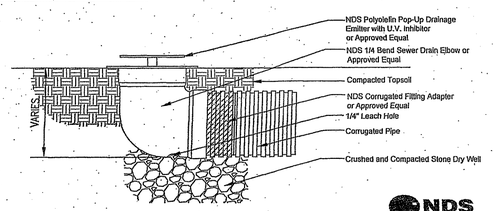
" WATERVIEW ACRES "
STEPHEN E. HOPKINS TRUSTEE
ASSESSORS PLAT 12 LOT 134
KEACH DAM ROAD
GLOCESTER, RHODE ISLAND

DRAINAGE & GRADING PLAN POST WATER

DRAWN BY: W.C.R.	CHECKED BY: N.A.T.	FIELD BY: W.C.R.,S.K.
FEBRUARY 2015	JOB No. 2014-246	SHEET 8 OF 11

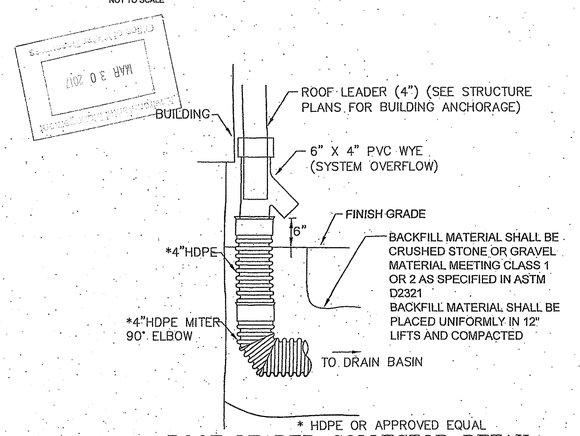
\\Plot\C\NATIONAL 2017\2014-246\dwg\2014-246 revised 7 gps.dwg, sheet 8 post water, 1:1

NO.	DATE	DESCRIPTION	BY
8	3/24/2017	AS PER DEM COMENTS	WCR
7	1/27/2017	AS PER DEM COMENTS	WCR
6	11/19/2016	AS PER DEM COMENTS	WCR
5	10/10/2016	AS PER DEM COMENTS	WCR
4	9/2/2016	LABELED 3 BEDROOM DWELLING/ BOT. ELEV'S ON ISDS SYSTEMS	WCR
3	7/29/2016	REGRADING REAR LOTS 13 & 14	WCR
2	6/28/2016	RELOCATE WELLS/ISDS SYSTEMS	WCR



NDS POP-UP DRAINAGE EMITTER

NOT TO SCALE

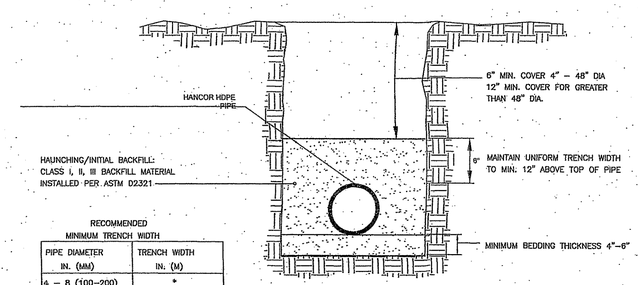


* HDPE OR APPROVED EQUAL

ROOF LEADER COLLECTOR DETAIL

NOT TO SCALE

HDPE TRENCH INSTALLATION DETAIL

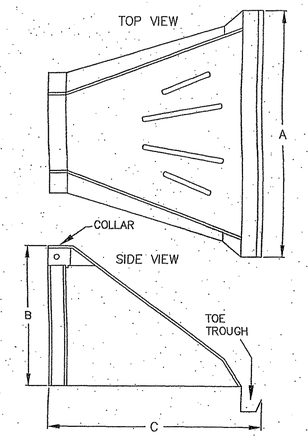


RECOMMENDED MINIMUM TRENCH WIDTH

PIPE DIAMETER IN. (MM)	TRENCH WIDTH IN. (M)
4 – 8 (100–200)	*
10 (250)	24 (0.6)
12 (300)	28 (0.7)
15 (375)	35 (0.9)
18 (450)	43 (1.1)
24 (600)	56 (1.4)
30 (750)	60 (1.5)
36 (900)	65 (1.7)
42 (1050)	84 (2.1)
48 (1200)	91 (2.3)
54 (1350)	97 (2.5)
60 (1500)	103 (2.6)

* USUALLY BASED ON SMALLEST BUCKET SIZE AVAILABLE

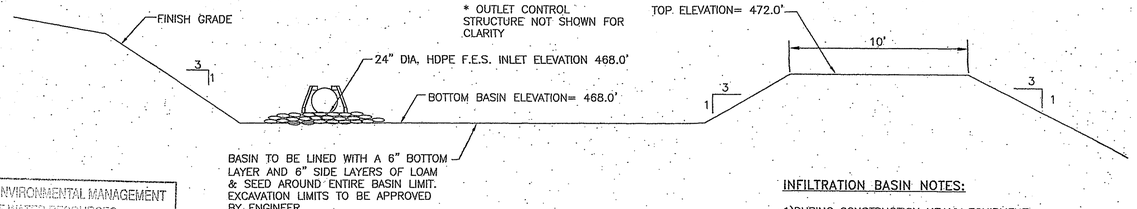
REFERENCE ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY–FLOW APPLICATIONS."



PIPE DIAMETER (INCHES)						
DIAMETER	10/12	15	18	24	30	36
A	42	41	49	59.5	88	88
B	14.5	19	22	28	36	43
C	33	34	43	48	63.5	66.5
D	6	6	6	6	6	6

HDPE PIPE END FLARED END SECTION

NOT TO SCALE



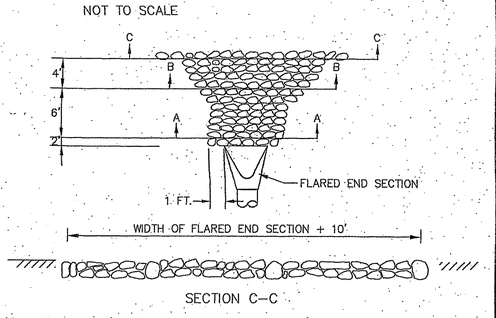
INFILTRATION BASIN CROSS SECTION DETAIL

NOT TO SCALE

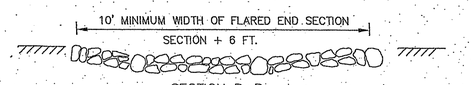
INFILTRATION BASIN NOTES:

1)DURING CONSTRUCTION HEAVY EQUIPMENT SHALL NOT TRAVERSE THE INFILTRATION AREA IN ORDER TO PREVENT DETRIMENTAL COMPACTION.

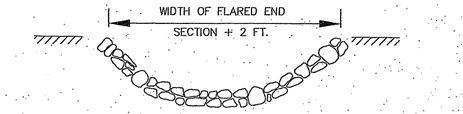
2)SHOP DRAWING SUBMITTAL AND APPROVAL BY DESIGN ENGINEER REQUIRED FOR EACH INFILTRATION BASIN PRIOR TO CONSTRUCTION.



SECTION C–C



SECTION B–B
8' MINIMUM WIDTH



SECTION A–A
5' MINIMUM WIDTH

NOTES:
1. CLASS OF RIP–RAP AND BEDDING TO BE SPECIFIED IN CONTRACT DOCUMENTS.
2. DIMENSIONS MAY BE MODIFIED BY ENGINEER TO MEET FIELD CONDITIONS
3. UNLESS OTHERWISE SPECIFIED, DUMPED RIP–RAP SHALL BE USED.

ROCK FILL RIP–RAP @ FLARED END SECTIONS

NOT TO SCALE

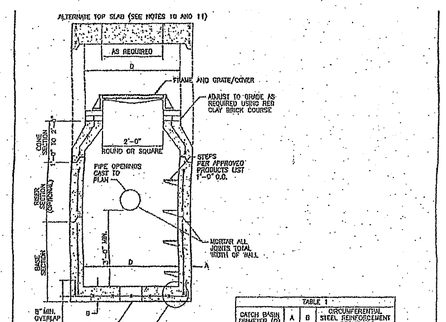


TABLE 1			
CATCH BASIN DIAMETER (D)	A	B	CIRCUMFERENTIAL STEEL REINFORCEMENT REQUIRED *
4'-0"	8"	8"	0.12 SQ. IN./LIN. FT.
5'-0"	8"	12"	0.15 SQ. IN./LIN. FT.
6'-0"	8"	12"	0.18 SQ. IN./LIN. FT.

* FOR CONVENTIONAL REINFORCEMENT, STANDARD REINFORCEMENT REFER TO ASTM C478, ITEM 8.1.2

TYPE CATCH BASIN AS REQUIRED

NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.
2. SEE TABLE 1 FOR STEEL REINFORCEMENT REQUIREMENTS.
3. STEEL REINFORCEMENT FOR BASE SECTION BOTTOM SHALL BE A MINIMUM OF 0.12 SQ. IN./LIN. FT. (BOTH WAYS).
4. STEPS SHALL CONFORM TO STD. 5.3.0 AND SHALL BE INSTALLED AT THE CASTING PLANT.
5. CURE POUR MONOLITHIC BASE SECTION.
6. ANY NECESSARY ADJUSTMENTS DURING CONSTRUCTION WILL BE DONE BY SAW–CUTTING AND/OR CORING ONLY. NO JACKHAMMERS, HAMMERS AND CHISELS OR PNEUMATIC TOOLS WILL BE ALLOWED.
7. CORBEL MADE OF RED CLAY BRICK WILL BE PERMITTED FOR THE "CORE SECTION" OF THE 4'–0" CATCH BASIN ONLY.
8. FOR CATCH BASIN TYPES "O" AND "F" STEPS MUST BE INSTALLED ON THE CURB SIDE OF THE STRUCTURE.
9. THE CENTERLINE OF THE OPENING MUST BE WITHIN 2'–0" FROM THE STEPS.
10. ALTERNATE TOP SLAB IS STEEL REINFORCED TO MEET OR EXCEED H–25 LOADING (SEE STD. 4.7.2)
11. ALTERNATE TOP SLAB IS ONLY FOR USE WHEN REBOUND SECTION DOES NOT FIT BECAUSE OF STRUCTURE DEPTH.
12. REFER TO STD. 5.2.0 FOR MINIMUM PIPE SIZES.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

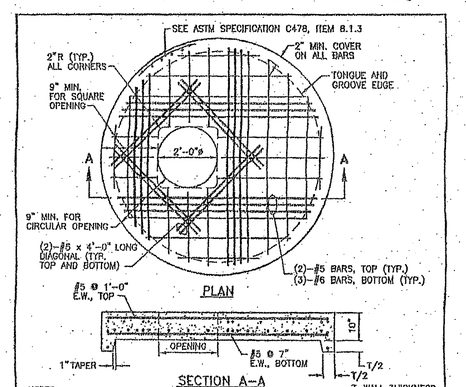
REVISIONS		
NO.	BY	DATE

PRECAST 4'–0", 5'–0", OR 6'–0" ROUND CATCH BASIN

R.I. STANDARD 4.4.0

JUNE 15, 1998 ISSUE DATE

Martin D. Wenck



NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.
2. ANY NECESSARY ADJUSTMENTS DURING CONSTRUCTION WILL BE DONE BY SAW–CUTTING AND/OR CORING ONLY. NO JACKHAMMERS, HAMMERS AND CHISELS OR PNEUMATIC TOOLS WILL BE ALLOWED.
3. THE CENTER LINE OF THE OPENING MUST BE WITHIN 2" FROM THE STEPS.
4. ALTERNATE TOP COVER IS STEEL REINFORCED TO MEET OR EXCEED H–25 OR HS–25 LOADINGS WITH EARTH PRESSURES INCLUDED. THIS IMPLIES THAT THE TOP SLAB IS DESIGNED FOR AXLE LOADS OF NO MORE THAN 20 TONS.
5. ALL REBAR SHALL HAVE A MINIMUM OF 2" CLEARANCE FROM OPENING.
6. ALL REBARS IN THE BOTTOM MAT ARE #5 @ 2" BOTH WAYS, WITH 2" MINIMUM COVER, EXCEPT FOR REBARS ADJACENT TO THE OPENING. THESE BARS SHALL BE (3)–#6 SHOWN WITH A HEAVIER LINE FOR CLARITY). REBARS IN THE TOP MAT ARE #5 @ 1'–0", BOTH WAYS, WITH 2" MINIMUM COVER, EXCEPT FOR REBARS ADJACENT TO THE OPENING. THESE BARS SHALL BE (2)–#5 BARS.

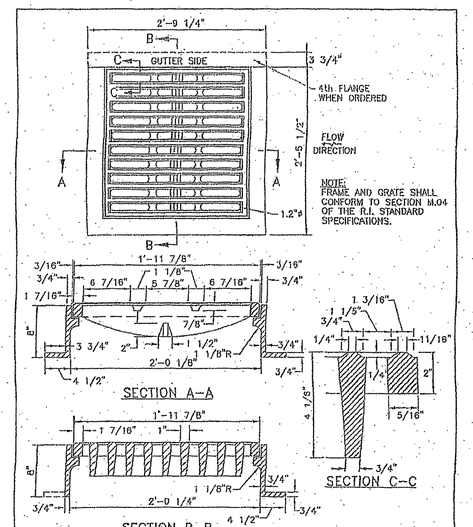
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS		
NO.	BY	DATE

ALTERNATE TOP COVER FOR ROUND PRECAST MANHOLES AND CATCH BASINS

R.I. STANDARD 4.7.2

JUNE 15, 1998 ISSUE DATE



RHODE ISLAND DEPARTMENT OF TRANSPORTATION

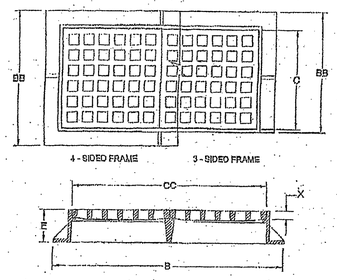
REVISIONS		
NO.	BY	DATE
1	MLP	7/21/08

SQUARE FRAME AND GRATE (BICYCLE SAFE)

R.I. STANDARD 6.3.2

JUNE 15, 1998 ISSUE DATE

GENERAL FOUNDRIES INC.



ITEM NUMBER	DIMENSIONS IN INCHES B	BB	X	TYPE OF FRAME
24043-SQH	59-7/8	29-1/4	2	3-SIDED
24044-SQH	59-7/8	32-3/4	2	4-SIDED
24803-SQH	59-7/8	29-1/4	2	3-SIDED
24804-SQH	59-7/8	32-3/4	2	4-SIDED
24883-SQH	59-7/8	29-1/4	2	3-SIDED
24884-SQH	59-7/8	32-3/4	2	4-SIDED

HEAVY DUTY DOUBLE CB FRAMES & SQ. MANHOLE GRATES

SUITABLE FOR A.A.S.H.T.O. H 20-44 AND HS 20-44 HIGHWAY LOADING.

Thomas J. Principe, III
No. 9107
REGISTERED PROFESSIONAL ENGINEER

PRINCIPE COMPANY, INC.
ENGINEERING DIVISION
PO BOX 298
TIVERTON, RI 02878
401.816.5385
ESTABLISHED IN 1981
PRINCIPEENGINEERING@GMAIL.COM

REVISIONS			
No.	DATE	DRWN	CHKD

KEACH DAM ROAD

GLOCESTER, RHODE ISLAND

DETAIL SHEET–1

SCALE: NTS		SHEET NO: 9 OF 11
DRAWN BY: TJP	DESIGN BY: SL	CHECKED BY: TJP
DATE: 3/10/16		PROJECT NO.: LD_2016_245

EROSION CONTROL, SOIL STABILIZATION AND SEDIMENT CONTROL PLAN

1. PRIOR TO THE COMMENCEMENT OF ANY CLEARING, GRUBBING, DEMOLITION OR EARTHWORK ACTIVITY, TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AS INDICATED ON THE PLANS ARE TO BE INSTALLED BY THE CONTRACTOR.

2. CONSTRUCTION ACCESS STABILIZATION ENTRANCE PADS ARE TO BE INSTALLED PRIOR TO THE COMMENCEMENT OF SITE GRUBBING OR EARTHWORK ACTIVITY.

3. EXISTING CATCH BASINS ARE TO BE PROTECTED WITH HAY BALES AND/OR SILT SACS PRIOR TO THE START OF SITE GRUBBING, EARTHWORK OR UNDERGROUND UTILITY AND DRAINAGE INFRASTRUCTURE INSTALLATION TO SERVE THE DEVELOPMENT SITE.

4. THE PROJECT CONSTRUCTION SEQUENCE, TO THE EXTENT PRACTICAL, SHOULD REQUIRE THE INSTALLATION OF DOWN GRADE AND OFF SITE STORM DRAINAGE SYSTEM IMPROVEMENTS BEFORE THE START OF SITE GRUBBING AND EARTHWORK ACTIVITY.

5. TEMPORARY SITE SLOPE TREATMENTS FOR SOIL STABILIZATION SHALL CONSIST OF HAY, STRAW, FIBER MULCH, RIP RAP OR PROTECTIVE COVERS SUCH AS MAT OR FIBER LINING (BURLAP, JUTE, FIBERGLASS NETTING, AND EXCELSIOR OR EQUAL PRODUCTS). THESE AND OTHER ACCEPTABLE MEASURES SHALL BE INCORPORATED INTO THE SITE WORK AS WARRANTED OR AS ORDERED BY THE ENGINEER.

6. CONSTRUCTION SITES ARE DYNAMIC, THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND OR MOVEMENT AND MAINTENANCE OF EROSION CONTROLS, SOIL STABILIZATION AND SEDIMENT CONTROL MEASURES AS NEEDED TO MAXIMIZE THE INTENT OF THE PLAN FOR ALL SITE CONDITIONS THROUGHOUT THE CONSTRUCTION PERIOD.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERIODIC INSPECTION, MAINTENANCE, REPAIR, AND REPLACEMENT OF EROSION CONTROLS, SOIL STABILIZATION AND SEDIMENT CONTROL DEVICES UNTIL AN ACCEPTABLE PERMANENT VEGETATIVE GROWTH IS ESTABLISHED. THE CONTRACTOR SHALL MAINTAIN A DETAIL LOG OF ALL EROSION CONTROL INSPECTIONS, COMPLAINTS RELATED TO EROSION OR SEDIMENT, AND CORRECTIVE REMEDIAL MEASURES TAKEN THROUGHOUT THE COURSE OF THE PROJECT CONSTRUCTION.

8. SOIL EROSION AND SEDIMENT CONTROL IS NOT LIMITED TO DAMAGES CAUSED BY WATER BUT ALSO INCLUDES EROSION AND SEDIMENT RESULTING FROM WINDS. MEASURES, SUCH AS TEMPORARY GROUND COVERS, WATER AND CALCIUM APPLICATIONS ARE TO BE UNDERTAKEN AS NEEDED TO MINIMIZE WIND RELATED SOIL AND DUST CONTROL.

9. STOCK PILES OF EARTH MATERIALS SHALL NOT BE LOCATED NEAR WATERWAYS OR WETLANDS. STOCK PILES SHALL HAVE SIDE SLOPES NO GREATER THAN THIRTY PERCENT (30%). STOCK PILES SHALL BE SURROUNDED ON THE DOWN GRADIENT OF THE EXISTING GROUND SURFACE BY HAY BALES OR SILT FENCE. THE STOCK PILES SHALL ALSO BE SEEDED OR STABILIZED IN SOME MANOR TO PREVENT SOIL EROSION.

10. THE SMALLEST POSSIBLE SITE AREAS SHALL BE DISTURBED OR EXPOSED AT ONE TIME AND DENUDED SLOPES OR WORK AREAS SHALL NOT BE LEFT EXPOSED FOR EXCESSIVE PERIODS OF TIME, SUCH AS INACTIVE PERIODS OR SITE WORK SHUT DOWNS.

11. TO THE EXTENT POSSIBLE, ALL DISTURBED AREAS MUST BE SEEDED OR STABILIZED WITHIN THE CONSTRUCTION SEASON. STABILIZATION OF ONE FORM OR ANOTHER SHALL BE ACHIEVED WITHIN FIFTEEN (15) DAYS OF FINAL GRADING.

12. EXPOSED STEEP OR LONG SLOPES SHOULD BE TREATED WITH "CRIMPING" OR "TRACKING" TO REDUCE EROSION AND SEDIMENT AND TO TACK DOWN SEEDING OR MULCH APPLICATIONS.

13. IF CONCRETE IS TO BE USED ON SITE, THE CONTRACTOR MUST ESTABLISH AND MAINTAIN SPECIFIC WASHOUT AREAS FOR THE CONCRETE TRUCKS WITH APPROPRIATE PROTECTION CONTROLS.

14. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MAINTAINING COLLECTION AND STORAGE LOCATIONS ON-SITE FOR ALL CONSTRUCTION DEBRIS AND TRASH SO THAT THIS MATERIAL DOES NOT BECOME A NEIGHBORHOOD NUISANCE.

15. EXISTING TREES AND VEGETATION WILL BE RETAINED WHENEVER FEASIBLE.

16. SITE SOIL EROSION AND SOIL STABILIZATION AND SEDIMENT CONTROLS MUST CONFORM TO ALL REQUIREMENTS OF THE APPLICABLE LOCAL COMMUNITY ORDINANCES AND STATE REGULATIONS.

VEGETATIVE COVER AND PLANTING

1. THE NORMAL ACCEPTABLE SEASONABLE SEEDING DATES ARE APRIL 1ST THROUGH OCTOBER 15TH.

2. TOP SOIL FOR PERMANENT OR LONG TERM TEMPORARY SEEDING SHOULD HAVE A SANDY LOAM TEXTURE, RELATIVELY FREE OF SUBSOIL MATERIAL, STONES, ROOTS, LUMPS OF SOIL, TREE LIMBS, TRASH OR CONSTRUCTION DEBRIS. TOP SOIL SHALL CONFORM WITH RHODE ISLAND SPECIFICATIONS M18.01.

3. THE DESIGN SEED MIX UTILIZED IN ALL DISTURBED AREAS TO BE SEEDED SHALL BE COMPRISED OF THE FOLLOWING:

TYPE	% BY WEIGHT	SEEDING DATE
CREEPING RED FESCUE	70	
ASTORIA BENTGRASS	5	APRIL 1 – JUNE 15
BIRDFOOT TREFOIL	15	AUGUST 15 – OCTOBER 15
PERENNIAL RYE GRASS	10	

APPLICATION RATE – 100 LBS PER ACRE

SEED MIX SHALL BE INOCULATED WITHIN 24 – HOURS BEFORE MIXING AND PLANTING, WITH APPROPRIATE INOCULATION FOR EACH SEED VARIETY. ALTERNATE SEED TYPES DUE TO SITE SPECIFIC CONDITIONS AND SOILS ARE ACCEPTABLE WITH THE ENGINEER'S APPROVAL.

4. IN TOPSOIL SEEDING AREAS, THE CONTRACTOR WILL LIME AND FERTILIZE AS REQUIRED TO COMPLIMENT OR UPGRADE SOIL CONDITIONS.

5. THE CONTRACTOR MUST REPAIR AND/OR RESEED ANY PERMANENT VEGETATIVE COVER AREAS THAT DO NOT DEVELOP OR WHICH ERODE WITHIN A ONE (1) YEAR PERIOD.

GENERAL NOTES:

1. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO FAMILIARIZE HIMSELF WITH ANY APPLICABLE LOCAL, STATE AND FEDERAL LAWS GOVERNING HIS INTENDED ACTIVITIES. OSHA REGULATIONS ARE APPLICABLE OF PROJECT SITE CONSTRUCTION ACTIVITIES.

2. ALL CONSTRUCTION WILL BE UNDERTAKEN IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE TOWN OF SCITUATE.

3. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO MAINTAIN THE INTEGRITY OF ALL EXISTING UTILITIES, STRUCTURES, AND ABUTTING PROPERTIES. THE COST OF ANY REPAIR OR REPLACEMENT OF DAMAGED ITEMS SHALL BE BORNE BY THE CONTRACTOR.

4. IF THE MUNICIPALITY REQUIRES A PROJECT PRE-CONSTRUCTION CONFERENCE, THE PROJECT DEVELOPER AND THE PROJECT CONTRACTOR WILL ATTEND AND WILL PROVIDE ALL REQUESTED MATERIALS PRIOR TO COMMENCING ANY WORK.

5. IF CEMENT CONCRETE MIX TRUCKS ARE TO BE WASHED OUT ON SITE, THE CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING AND MAINTAINING A WASH OUT AREA WITH APPROPRIATE PROTECTION CONTROLS.

6. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MAINTAINING COLLECTION AND STORAGE LOCATIONS ON-SITE FOR ALL CONSTRUCTION DEBRIS AND TRASH SO THAT THIS MATERIAL DOES NOT BECOME A NEIGHBORHOOD NUISANCE.

7. ALL REQUIRED SITE IMPROVEMENTS SHALL BE INSPECTED BY THE TOWN ENGINEER TO ENSURE SATISFACTORY COMPLETION. IN NO CASE SHALL THE INSTALLATION OF ANY IMPROVEMENTS BE STARTED UNTIL PRIOR NOTIFICATION IS GIVEN TO THE TOWN ENGINEER. AT LEAST A 48-HOUR NOTICE SHALL BE GIVEN TO THE TOWN ENGINEER PRIOR TO ANY SUCH START OF CONSTRUCTION. A FINAL INSPECTION OF ALL SITE IMPROVEMENTS, UTILITIES AND GRADING WILL BE MADE TO DETERMINE WHETHER THE WORK IS SATISFACTORY AND IN SUBSTANTIAL AGREEMENT WITH THE APPROVED FINAL CONSTRUCTION DRAWING AND THE TOWN SPECIFICATIONS.

8. LOCATION AND DEPTH OF EXISTING UTILITIES ARE APPROXIMATE AND HAVE BEEN PLOTTED FROM THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL CHECK AND VERIFY LOCATIONS OF ALL EXISTING UTILITIES BOTH UNDERGROUND AND OVERHEAD. ANY DAMAGE TO EXISTING UTILITIES AS SHOWN OR NOT SHOWN ON THE PLANS SHALL BE THE CONTRACTOR'S RESPONSIBILITY. COSTS OF SUCH DAMAGE SHALL BE BORNE BY THE CONTRACTOR. NO EXCAVATION SHALL BE DONE UNTIL ALL INVOLVED UTILITY COMPANIES ARE NOTIFIED 48-HOURS IN ADVANCE. THE CONTRACTOR SHALL BE RESPONSIBLE TO NOTIFY DIG-SAFE (1-800-344-7233) A MINIMUM OF 48 WORKING HOURS, EXCLUDING WEEKENDS AND HOLIDAYS, PRIOR TO THE START OF ANY EXCAVATION AND/OR BLASTING WORK. THE NAME OF THE COMPANY PERFORMING THE EXCAVATION AND/OR BLASTING WORK MUST BE SUPPLIED TO DIG-SAFE, IF IT IS DIFFERENT FROM THE CALLER.

9. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO OBTAIN ANY AND ALL PERMITS REQUIRED BY, BUT NOT LIMITED TO, THE STATE OF RHODE ISLAND AND ALL INDIVIDUAL UTILITY COMPANIES PRIOR TO COMMENCING ANY WORK.

10. ALL MATERIAL FOR FILL SHALL BE CLEAN AND FREE OF MATTER WHICH COULD POLLUTE ANY DOWN STREAM WATERCOURSE.

11. FILL MATERIAL SHALL BE COMPACTED IN ONE FOOT (MAXIMUM) LIFTS TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED IN ACCORDANCE WITH ASTM D-1557 (MODIFIED PROCTOR TEST).

THE FOLLOWING LIST OF MAINTENANCE TASKS AND FREQUENCIES MUST BE ADHERED TO IN ORDER TO INSURE A SUCCESSFUL LONG TERM OPERATION OF THE STORM DRAINAGE SYSTEM.

1. DURING CONSTRUCTION ACTIVITIES ALL EROSION CONTROLS ON THE SITE SHALL BE INSPECTED AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN TWENTY FOUR (24) HOURS AFTER AN EVENT WHICH GENERATES AT LEAST 0.25 INCHES OF RAIN IN A TWENTY FOUR (24) HOUR PERIOD.

2. SEDIMENTS SHALL BE REMOVED FROM ALL BASINS IMMEDIATELY AFTER SITE STABILIZATION.

3. ALL TRASH, LITTER AND OTHER DEBRIS SHALL BE REMOVED FROM ALL STORM WATER INLET AND OUTLET STRUCTURES A MINIMUM OF TWICE PER YEAR. THESE STRUCTURES SHALL ALSO BE INSPECTED TWICE PER YEAR. INSPECTIONS SHALL BE PERFORMED SEVERAL TIMES WITHIN THE FIRST SIX MONTHS OF OPERATION.

4. INSPECTIONS OF ALL CATCH BASINS SHALL OCCUR ON AN ANNUAL BASIS TO CHECK FOR DEBRIS REMOVAL (SEDIMENT AND HYDROCARBONS) AND STRUCTURAL INTEGRITY OR DAMAGE. SUCH DEFICIENCIES SHALL BE CORRECTED IMMEDIATELY.

5. REPAIRS OR REPLACEMENT OF INLET/OUTLET STRUCTURES OR ANY ELEMENT OF THE FACILITY SHALL BE DONE WITHIN THIRTY (30) DAYS OF DEFICIENCY REPORTS. IF AN EMERGENCY SITUATION IS IMMINENT THEN REPAIR/REPLACEMENT SHALL BE DONE IMMEDIATELY TO AVERT FAILURE OR DANGER TO NEARBY RESIDENTS.

6. MAKE REPAIRS IMMEDIATELY USING APPROPRIATE STONE SIZES. DO NOT PLACE STONES ABOVE FINISHED GRADE,

7. ALL REMOVED SEDIMENTS AND DEBRIS SHALL BE DISPOSED OF OFF SITE IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS.

8. ALL OUTLET STRUCTURES AND OUTFLOW CHANNELS WILL BE INSPECTED ANNUALLY. INSPECTIONS WILL BE ACCOMPLISHED SEVERAL TIMES DURING THE FIRST SIX MONTHS OF OPERATION, ESPECIALLY AFTER RAINFALL EVENTS TO CHECK FOR CLOGGING OR, CONVERSELY, TOO RAPID OF A RELEASE.

9. REPAIRS OR REPLACEMENT OF INLET/OUTLET STRUCTURES, RIP-RAP CHANNELS, FENCES, OR OTHER ELEMENTS OF THE FACILITY WILL BE DONE WITHIN 30 DAYS OF DEFICIENCY REPORTS. IF AN EMERGENCY SITUATION IS IMMINENT THEN REPAIR/REPLACEMENT MUST BE DONE IMMEDIATELY TO AVERT FAILURE OR DANGER TO NEARBY RESIDENTS.

10. ALL SEDIMENT GENERATED DURING CONSTRUCTION AND AS A RESULT OF MAINTENANCE OF THE DRAINAGE SYSTEM MUST BE DISPOSED OF PROPERLY. SEDIMENT SHALL NOT BE DISPOSED OF IN OR NEAR STATE OR FEDERAL REGULATED WATERS.

11. ADDITIONAL BMP INSPECTION/MAINTENANCE MEASURES OUTLINED WITHIN THE PROJECT STORMWATER POLUTION PREVENTION PLAN SHALL BE ADHERED TO.

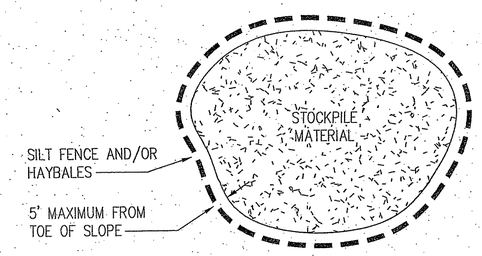
DRAINAGE AND UTILITY NOTES:

1. UTILITY LOCATION VERIFICATION IS TO INCLUDE TEST HOLES AS NEEDED.

2. UNDERGROUND UTILITIES, ELECTRIC, TELEPHONE, FIRE ALARM CABLE, TELEVISION AND GAS SERVICES SHALL BE INSTALLED PER THE REQUIREMENTS OF THE APPLICABLE SITE UTILITY PROVIDER

3. METALLIC WARNING TAPE SHALL BE INSTALLED 12" ABOVE ALL STORM DRAIN AND OTHER UTILITIES.

4. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO MAINTAIN THE INTEGRITY OF ALL EXISTING UTILITIES, STRUCTURES AND ABUTTING PROPERTIES. THE COST OF ANY REPAIR OR REPLACEMENT OF DAMAGED ITEMS SHALL BE BORNE BY THE CONTRACTOR.



STOCKPILE DETAIL
NOT TO SCALE

MAINTENANCE NOTES:

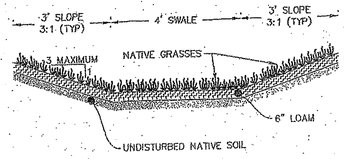
□ □Maintenance responsibility for a basin nd its setback shall be vested with a responsible authority by means of a legally binding and enforceable maintenance agreement lat is executed as a condition of plan approval. □

□ □The principal spillway shall be eulpped with a removable trash rack, and generally accessible from ry land. □

□ □A maintenance right-of-way or easement shall extend to a basin from a public or private road. □

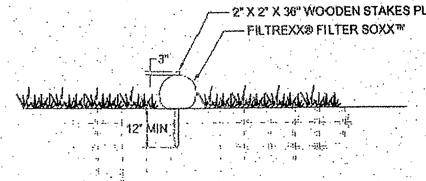
□ □Sediment shall be removed from stormwater basins when the sediment volume exceeds 10% of the otal basin volume and should be disposed of according to an aproved comprehensive operation and maintenance plan. □

□ Annual mowing of the basin setback isnly required along maintenance rights-of- way and the mbankment. The remaining setback can be managed as rangelad (mowing every other year) or forest.

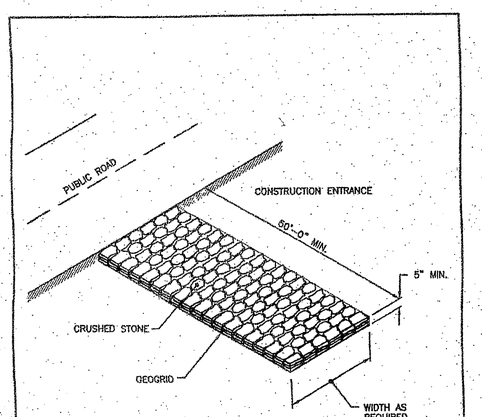


Grassed Swale Cross Section
NOT TO SCALE

NO.	DATE	DESCRIPTION	BY
8	3/24/2017	AS PER DEM COMENTS	WCR
7	1/27/2017	AS PER DEM COMENTS	WCR
6	11/19/2016	AS PER DEM COMENTS	WCR
5	10/10/2016	AS PER DEM COMENTS	WCR
4	9/2/2016	LABELED 3 BEDROOM DWELLING/ BOT. ELEVS ON ISDS SYSTEMS	WCR
3	7/29/2016	REGRADING REAR LOTS 13 & 14	WCR
2	6/28/2016	RELOCATE WELLS/ISDS SYSTEMS	WCR



SILK SOCK INSTALLATION
NOT TO SCALE



NOTE:
SHALL BE IN ACCORDANCE WITH SECTION 211 OF THE R.I. STANDARD SPECIFICATIONS.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS		
NO.	BY	DATE

CONSTRUCTION ACCESS

JUNE 15, 1998 (ISSUE DATE)

R.I. STANDARD 9.9.0

MAR 30 2017

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
REVIEWED SITE PLAN APPLICATION NO.: 16-0179
DATED APR 06 2017
SEE LETTER OF SAME DATE.
Martin D. Wencek

Thomas J. Principe, III
No. 9107
REGISTERED PROFESSIONAL ENGINEER

REVISIONS

No.	DATE	DRWN	CHKD

PRINCIPE COMPANY, INC.
ENGINEERING DIVISION
PO BOX 298
TIVERTON, RI 02878
401.816.5385
PRINCIPEENGINEERING@GMAIL.COM

KEACH DAM ROAD

GLOCESTER, RHODE ISLAND

DETAIL SHEET-2

SCALE: NTS		SHEET NO: 10 OF 11
DRAWN BY: TJP	DESIGN BY: SL	CHECKED BY: TJP
DATE: 3/10/16		PROJECT NO.: LD_2016_245

\\Plot\C\NATIONAL 2017\2014-246\dwg\2014-246 revised 7 gps.dwg, sheet 10 - detail sheet 2, 1:1

CULTEC RECHARGER 330 SPECIFICATIONS

GENERAL

CULTEC RECHARGER 330 CHAMBERS ARE DESIGNED FOR UNDERGROUND STORMWATER AND/OR ON-SITE WASTEWATER MANAGEMENT. THE CHAMBERS MAY BE USED FOR RETENTION, RECHARGING, DETENTION, CONTROLLING THE FLOW OF ON-SITE STORMWATER RUNOFF OR AS SEPTIC LEACHFIELDS.

CHAMBER PROPERTIES

1. THE CHAMBERS WILL BE MANUFACTURED BY CULTEC, INC. BROOKFIELD, CT (203-775-4416).

2. CONTACT CULTEC, INC. AT 203-775-4416 FOR SUBMITTAL PACKAGES AND TO PURCHASE PRODUCT.

3. THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC RECHARGER 330 SHALL BE 30.5 INCHES TALL, 52 INCHES WIDE AND 7.5 FEET LONG. THE INSTALLED LENGTH OF INTERMEDIATE UNITS SHALL BE 6.25 FEET.

4. THE STANDARD-DUTY VERSION OF THE CHAMBER COMES STANDARD WITH A 4.75 INCH INLET/OUTLET. MAXIMUM INLET OPENING IS 24 INCHES.

5. THE HEAVY-DUTY CHAMBER WILL HAVE 15 CORRUGATIONS THE SATNDARD-DUTY CHAMBER WILL HAVE 14 CORRUGATIONS.

6. THE NOMINAL STORAGE VOLUME OF THE RECHARGER 330HD WILL BE 7.459 CF/LF.

7. THE CHAMBERS WILL BE VACUUM THERMOFORMED OF BLACK HIGH MOLECULAR WEIGHT HIGH DENSITY POLYETHYLENE (HMWHDPE) IN AN ISO-9001:2000 CERTIFIED FACILITY.

8. CHAMBERS ARE MANUFACTURED WITH AN OPEN BOTTOM, INTEGRALLY FORMED END WALLS AND PERFORATED SIDEWALLS,

9. THE CHAMBERS WILL BE JOINED USING AN INTERLOCKING OVERLAPPING RIB METHOD. CONNECTIONS MUST BE FULLY SHOULDERED OVERLAPPING RIBS, HAVING NO SEPARATE COUPLINGS OR SEPARATE END WALLS.

10. THE CHAMBER'S END WALL WILL BE AN INTEGRAL PART OF THE CONTINUOUSLY FORMED UNIT. SEPARATE INLET OR END PLATES CANNOT BE USED WITH THIS UNIT.

11. THE RECHARGER 330R STAND-ALONE UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING TWO FULLY FORMED INTEGRAL END WALLS.

12. THE RECHARGER 330S STARTER CHAMBER MUST BE FORMED AS A WHOLE CHAMBER HAVING ONE FULLY FORMED INTEGRAL END WALL AND ONE PARTIALLY FORMED INTEGRAL ENDWALL WITH A LOWER TRANSFER OPENING OF 10.5 INCHES HIGH X 40.5 INCHES WIDE.

13. THE RECHARGER 330I INTERMEDIATE CHAMBER MUST BE FORMED AS A WHOLE CHAMBER HAVING AT LEAST ONE FULLY FORMED INTEGRAL END WALL AND ONE PARTIALLY FORMED INTEGRAL ENDWALL WITH A LOWER TRANSFER OPENING OF 10.5 INCHES HIGH X 40.5 INCHES WIDE.

14. THE RECHARGER 330E END CHAMBER MUST BE FORMED AS A WHOLE CHAMBER HAVING ONE FULLY FORMED INTEGRAL END WALL.

15. ALL CHAMBERS WILL BE ARCHED IN SHAPE. THE HEAVY DUTY CHAMBER WILL HAVE SEVENTY-EIGHT ¾ INCH ROUND DISCHARGE HOLES, THE STANDARD-DUTY CAHMBER WILL HAVE SEVENTY-TWO ¾ INCH ROUND DISCHARGE HOLES BORED INTO THE SIDEWALLS OF THE UNIT'S CORE TO PROMOTE INFILTRATION/EXFILTRATION.

16. CHAMBERS MUST HAVE HORIZONTAL STIFFENING FLEX REDUCTION STEPS BETWEEN THE RIBS.

17. RECHARGER 330HD HEAVY-DUTY CHAMBERS ARE DESIGNED TO WITHSTAND AASHTO H-20 LOAD RATING (32,000 LBS./AXLE) WHEN INSTALLED ACCORDING TO CULTEC'S MOST CURRENT INSTALLATION INSTRUCTIONS. RECHARGER 330HD HEAVY-DUTY UNITS ARE DESIGNATED BY A COLORED STRIPE FORMED INTO THE PART ALONG THE LENGTH OF THE CHAMBER.

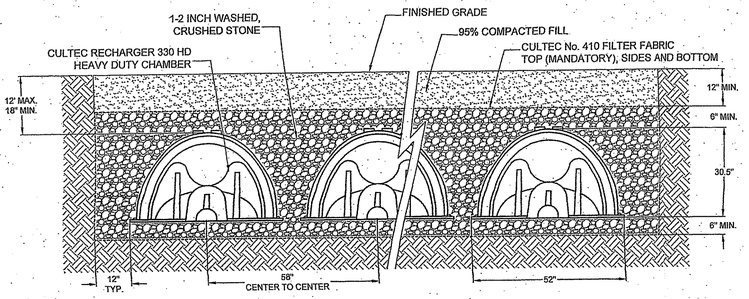
18. RECHARGER 330 STANDARD-DUTY CHAMBERS ARE DESIGNED TO WITHSTAND AASHTO H-10 LOAD RATING (16,000 LBS./AXLE) WHEN INSTALLED ACCORDING TO CULTEC'S MOST CURRENT INSTALLATION INSTRUCTIONS.

19. POLYETHYLENE CHAMBERS MUST HAVE THE ABILITY TO ACCEPT AND CARRY PIPE THROUGH ITS INTEGRALLY FORMED VERTICAL SUPPORT WALL WITHOUT THE USE OF SEPARATE PIPE HANGERS.

20. UNITS WILL HAVE A RAISED INTEGRAL CAP AT THE TOP OF THE ARCH IN THE CENTER OF EACH UNIT TO BE USED AS AN OPTIONAL INSPECTION PORT OR CLEAN-OUT.

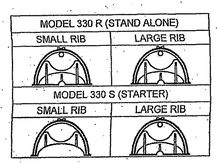
21. THE UNITS MAY BE TRIMMED TO CUSTOM LENGTHS BY CUTTING BACK TO ANY CORRUGATION.

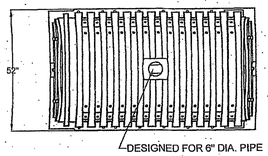
22. REPEATING SUPPORT PANELS AND END WALLS OF THE ELONGATED CHAMBER SHALL BE SPACED EVERY 6.25 FEET.

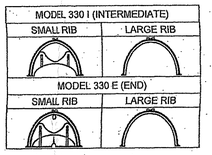


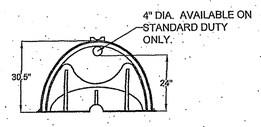
11.32 CUBIC FEET OF STORAGE PER LINEAL FOOT INSTALLED ACCORDING TO DESIGN UNIT

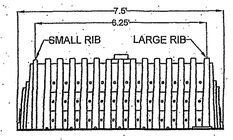
*** NOTE: ALTHOUGH NOT A STANDARD PRACTICE, ONE INSPECTION PORT PER SYSTEM WILL BE INSTALLED, AS REQUESTED .**

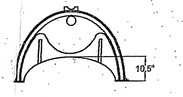










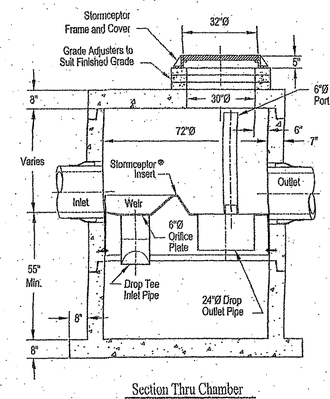


7.459 CUBIC FEET OF STORAGE PER LINEAL FOOT
46.62 CUBIC FEET OF STORAGE PER CHAMBER INSTALLED LENGTH

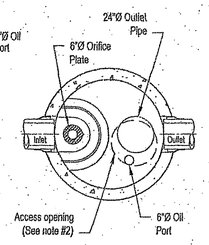
Rinker MATERIALS

Concrete Pipe Division

STC 900 Precast Concrete Stormceptor®
(900 U.S. Gallon Capacity)



Section Thru Chamber



Plan View

* TO BE INSTALLED @ DCB-2 & DCB-4

Notes:

1. The Use Of Flexible Connection is Recommended at The Inlet and Outlet Where Applicable.
2. The Cover Should be Positioned Over The Outlet Drop Pipe and The Oil Port.
3. The Stormceptor System is protected by one or more of the following U.S. Patents: #4985148, #5498331, #5725760, #5753115, #5849181, #6068765, #6371690.
4. Contact a Concrete Pipe Division representative for further details not listed on this drawing.

Rinker 028

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
REVIEWED SITE PLAN APPLICATION NO.: 16-0179
DATED APR 06 2017
SEE LETTER OF SAME DATE.

Martin D. Wenek

NO.	DATE	DESCRIPTION	BY
8	3/24/2017	AS PER DEM COMENTS	WCR
7	1/27/2017	AS PER DEM COMENTS	WCR
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3	7/29/2016	REGRADING REAR LOTS 13 & 14	WCR
2	6/28/2016	RELOCATE WELLS/ISDS SYSTEMS	WCR

TYPICAL SEDIMENT TRAP DETAILS:

1. REFERENCE - RHODE ISLAND SOIL EROSION AND SEDIMENTATION CONTROL HANDBOOK.

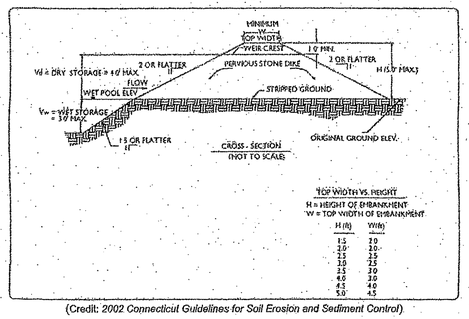
2. PROVIDE FOUR (4) TEMPORARY SEDIMENT TRAPS AS SHOWN ON SITE PLANS IN ACCORDANCE WITH THE FOLLOWING TOTAL INITIAL STORAGE VOLUMN:
   NW LOCATION: 201 CY MIN.
   NE LOCATION: 402 CY MIN.
   SE LOCATION: 349 CY MIN.
   SW LOCATION: 335 CY MIN.

* ABOVE BASED ON 134 CY PER ACRE OF DRAINAGE VOLUMN.

BASED ON ABOVE, ONE TYPICAL SEDIMENT TRAP SIZE TO ACCOMODATE EACH AREA HAS BEEN SHOWN AS A 205 SF AREA. EACH AREA MUST INCLUDE WET STORAGE OF 1' DEPTH AND DRY STORAGE OF 1' DEPTH TO MEET THE MIN. DESIGN REQUIREMENTS.

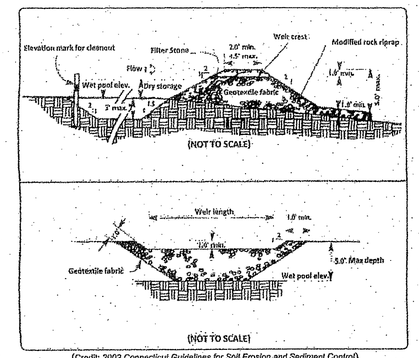
3. SPECIFIC DETAIL OF SEDIMENT TRAP CONSTRUCTION SHALL BE ACCORDANCE WITH THE DETAILS HEREIN AND SHOP DRAWING SUBMITTAL REQUIRED FOR APPROVAL BY ENGINEER PRIOR TO INSTALLATION.

Figure 2. Minimum Top Width for Temporary Sediment Trap Embankments Based on Height of Embankment

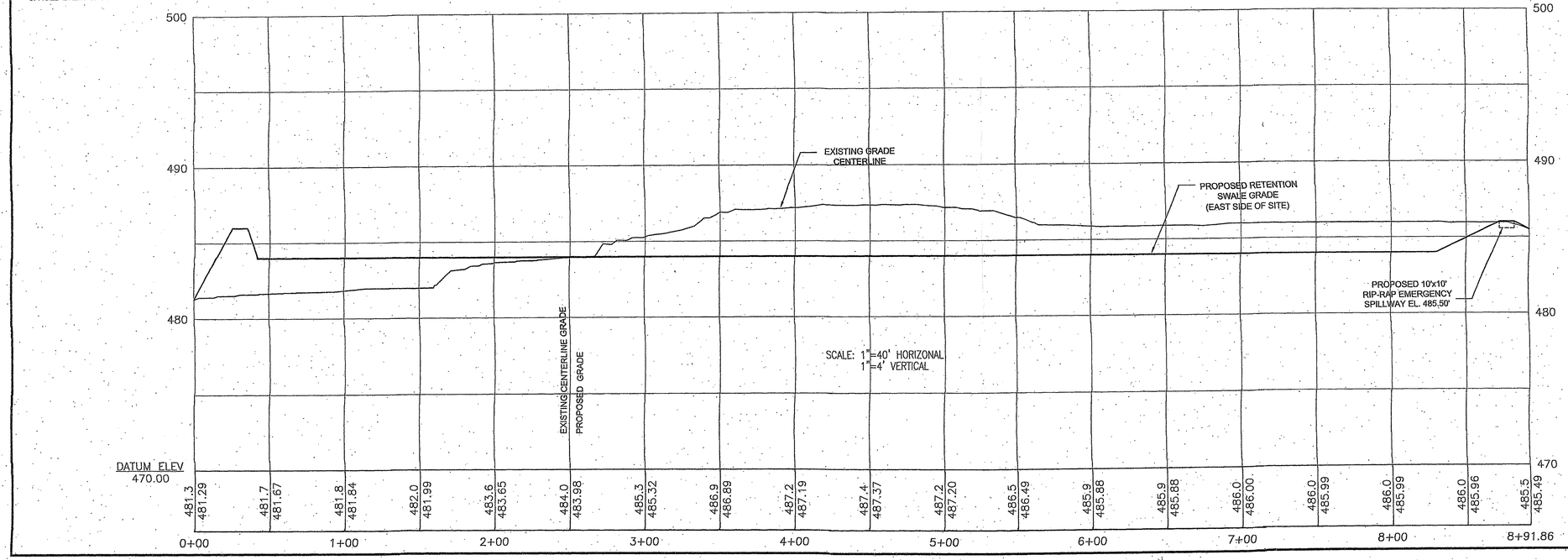


(Credit: *2002 Connecticut Guidelines for Soil Erosion and Sediment Control*)

Figure 3. Views of a Temporary Sediment Trap Outlet



(Credit: *2002 Connecticut Guidelines for Soil Erosion and Sediment Control*)



Thomas J. Principe, III
No. 9107
REGISTERED PROFESSIONAL ENGINEER

REVISIONS

No.	DATE	DRWN	CHKD

PRINCIPE COMPANY, INC.
ENGINEERING DIVISION
PO BOX 298
TIVERTON, RI 02878
401.816.5385
PRINCIPEENGINEERING@GMAIL.COM
ESTABLISHED IN 1981

MAR 30 2017

KEACH DAM ROAD

GLOCESTER, RHODE ISLAND

DETAIL SHEET-3

SCALE: NTS	SHEET NO: 11 OF 11
DRAWN BY: TJP	DESIGN BY: SL / CHECKED BY: TJP
DATE: 3/10/16	PROJECT NO.: LD_2016_245

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