

BUCKS HORN MEADOW

7 LOT CLUSTER SUBDIVISION

PRELIMINARY SUBMISSION

LEGEND & SYMBOLS

	ROCK WALL
	DRAINAGE LINE
	Silt fence delimiting the LOD (Limits Of Development)
	WETLAND LIMITS
	FIBER ROLLS
	GRAVEL BAGS
	WATER LINE
	6" CPP (Corrugate Plastic Pipe)
	ELECTRIC LINE
	TEST HOLES
	CHEROKEE PRINCESS
	TULIP
	LINDEN
	WETLANDS
	POLE
	WELL

DRAWING INDEX:

SHEET NO.	DRAWING
1.	COVER SHEET
2.	EXISTING CONDITIONS PLAN
3.	PROPOSED CONDITIONS PLAN 1
4.	PROPOSED CONDITIONS PLAN 2
5.	EROSION SOIL STABILIZATION PLAN FOR CONSTRUCTION PERIOD
6.	LOT 1 - DRAINAGE AND OWTS PLAN
7.	LOT 2 - DRAINAGE AND OWTS PLAN
8.	LOT 3 - DRAINAGE AND OWTS PLAN
9.	LOT 4 - DRAINAGE AND OWTS PLAN
10.	LOT 5 - DRAINAGE AND OWTS PLAN
11.	LOT 6 - DRAINAGE AND OWTS PLAN
12.	LOT 7 - DRAINAGE AND OWTS PLAN
13.	DRAINAGE SHEET 1 FROM 3+81 TO 8+13
14.	DRAINAGE SHEET 2 FROM 1+30 TO 3+81
15.	DRAINAGE SHEET 3 FROM 0+34 TO 1+30
16.	LANDSCAPE PLAN
17.	WATERSHED PLAN

FLAT RIVER ROAD

COVENTRY, RHODE ISLAND

ASSESSOR'S PLAT 315, LOTS 80 & 95

REFERENCES:

- Addendum to Drainage Calculation Report for Buck Horn Meadow Submitted on June 1, 2023".
- Buck Horn Meadow Drainage Calculations & Report.
- Operation and Maintenance Plans
- DEM Review comments July 13, 2023

APPLICANT / OWNER

Padula Builders Inc.
1430 Main Street
West Warwick, RI 02893
(401) 828-7500

LEGAL COUNSEL

NOLAN, BRUNERO, CRONIN, & FERRARA LTD.
JOHN BRUNERO
1070 MAIN STREET
Coventry, RI 02816
(401) 828-5800

PROJECT SURVEYOR

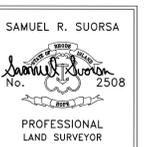
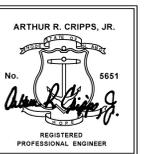
Coventry Survey Co., Inc.
46 SOUTH MAIN STREET
Coventry, RI 02816
(401) 823-5028

PROJECT ENGINEER

Arthur R. Cripps Jr., PE.
200 Shippee Plat Road
Coventry, RI 02816
(401) 258-8098

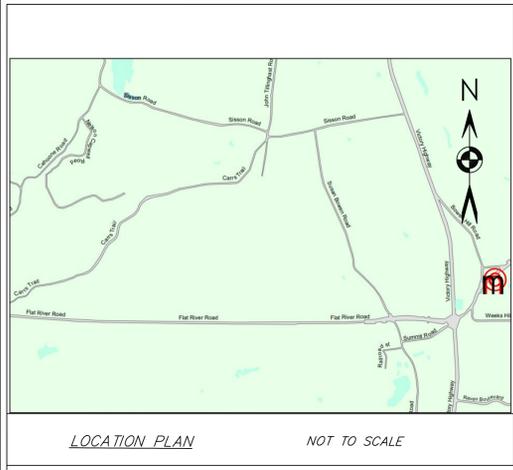
WETLAND SCIENTIST

APPLIED BIO-SYSTEMS, INC.
Linda Steere & Jason Schwartz
PO. Box 985
West Kingston, RI 02892
(401) 784 - 6740



Date:
December 30, 2023

Sheet 1 of 17



- Legend:**
- ▲▲▲ WETLANDS DELINEATION FLAG
 - ⊕ SOIL EVALUATION TEST HOLE
 - ⊕ WETLAND SYMBOL
 - STONE WALL

These proposed parcels are not located within any Natural Heritage Areas, Historic Districts, or Groundwater Protection Areas

Land Information:
 Zoning: R-5
 Fire District: Western Coventry - (401) 397-5916

FEMA Flood Plain:
 Zoning: X & A
 FEMA #: 454003C0080G
 eff. 12/3/2010
 Area of Minimal Flood Hazard
 (Location and flood elevation of FEMA Zone A not determined)

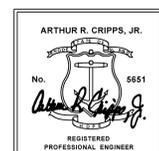
- References:**
- Survey maps by Boyer Associates - March 2004
 - Survey maps by Carrigan Engineering, Inc. - June 2005
 - Letter of findings, Applied Bio-Systems - June 25, 2021

- Map Notes:**
1. Wetlands flagged by Applied Bio-Systems, Inc.

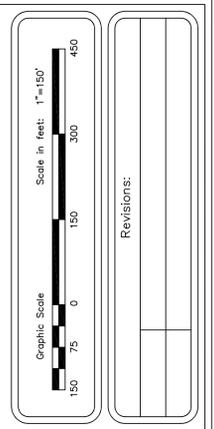
CERTIFICATION
 THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO SECTION 435-RICR-00-00-1.9 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND STATE BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS ON NOVEMBER 25, 2015, AS FOLLOWS:

(A) TYPE OF BOUNDARY SURVEY:	MEASUREMENT SPECIFICATION
LIMITED CONTENT BOUNDARY SURVEY	I
(B) OTHER TYPE OF SURVEY:	
DATA ACCUMULATION SURVEY - LOCATION OF SITE FEATURES AND TOPOGRAPHY	III
(C) STATEMENT OF PURPOSE:	
THE PURPOSE OF THIS SURVEY IS TO ESTABLISH RECORD BOUNDARY LINES AND TO SHOW THEIR RELATIONSHIP TO EXISTING SITE FEATURES.	

BY: Samuel Suorsa 2/9/2023
 REGISTERED PROFESSIONAL LAND SURVEYOR SIGNATURE
 Samuel R. Suorsa, PLS
 REGISTERED PROFESSIONAL LAND SURVEYOR PRINTED NAME
 A-68
 CERTIFICATE OF AUTHORIZATION NO.



PROJECT ENGINEER:
 Arthur R. Cripps Jr., PE
 200 Shippee Plat Road
 Coventry, RI 02816



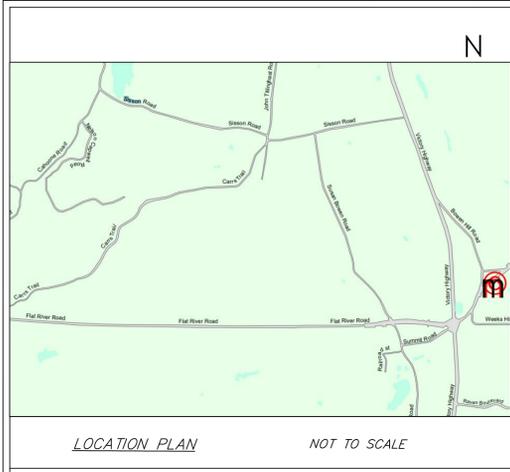
SAMUEL R. SUORSA
 No. 2508
 PROFESSIONAL LAND SURVEYOR

COVENTRY CO. SURVEY CO.
 46 South Main Street
 Coventry, Rhode Island 02816
 (401) 823-5028
 Land Surveying / Mapping / OWTs Designs

Preliminary Submission
 Existing Conditions Plan for Bucks Horn Meadow on Flat River Road in the Town of Coventry, Rhode Island Assessor's Plat 315 / Lots 80 & 95
 Prepared for: Padula Builders Inc. 1430 Main Street, West Warwick, Rhode Island 02816

Date:
 Dec. 30, 2023

Sheet 2 of 17



- Legend:**
- ▲ WETLAND DELINEATION FLAG
 - ◆ SOIL EVALUATION TEST HOLE
 - W WETLAND SYMBOL
 - STONE WALL
 - PROPOSED IRON ROD
 - PROPOSED GRANITE BOUND
 - ⊕ PROPOSED WELL
 - PROPOSED SILT FENCE (Limit of disturbance)

Land Information:
 Zoning: R-5
 Fire District: Western Coventry (401) 397-5916
FEMA Flood Plain:
 Zoning: X
 FEMA #: 454003C0080G
 eff. 12/3/2010
 Area of Minimal Flood Hazard
 (Location and flood elevation of FEMA Zone A not determined)

- Permits Required:**
- Approval letter from applicable Fire District
 - Preliminary Determinations Application for Wetlands (DEM)
 - RIPDES Permit
 - RIDOT PAP
 - RIDEM Subdivision Suitability

- References:**
1. Survey maps by Boyer Associates - March 2004
 2. Survey maps by Carrigan Engineering, Inc. - June 2005

CERTIFICATION
 THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO SECTION 435-RICR-00-00-1.9 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND STATE BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS ON NOVEMBER 25, 2015, AS FOLLOWS:

- (A) TYPE OF BOUNDARY SURVEY: LIMITED CONTENT BOUNDARY SURVEY MEASUREMENT SPECIFICATION
- (B) OTHER TYPE OF SURVEY: DATA ACCUMULATION SURVEY - LOCATION OF SITE FEATURES III
- (C) STATEMENT OF PURPOSE: THE PURPOSE OF THIS SURVEY IS TO ESTABLISH RECORD BOUNDARY LINES AND TO SHOW THEIR RELATIONSHIP TO EXISTING SITE FEATURES AND THE PROPOSED 6 LOT SUBDIVISION.

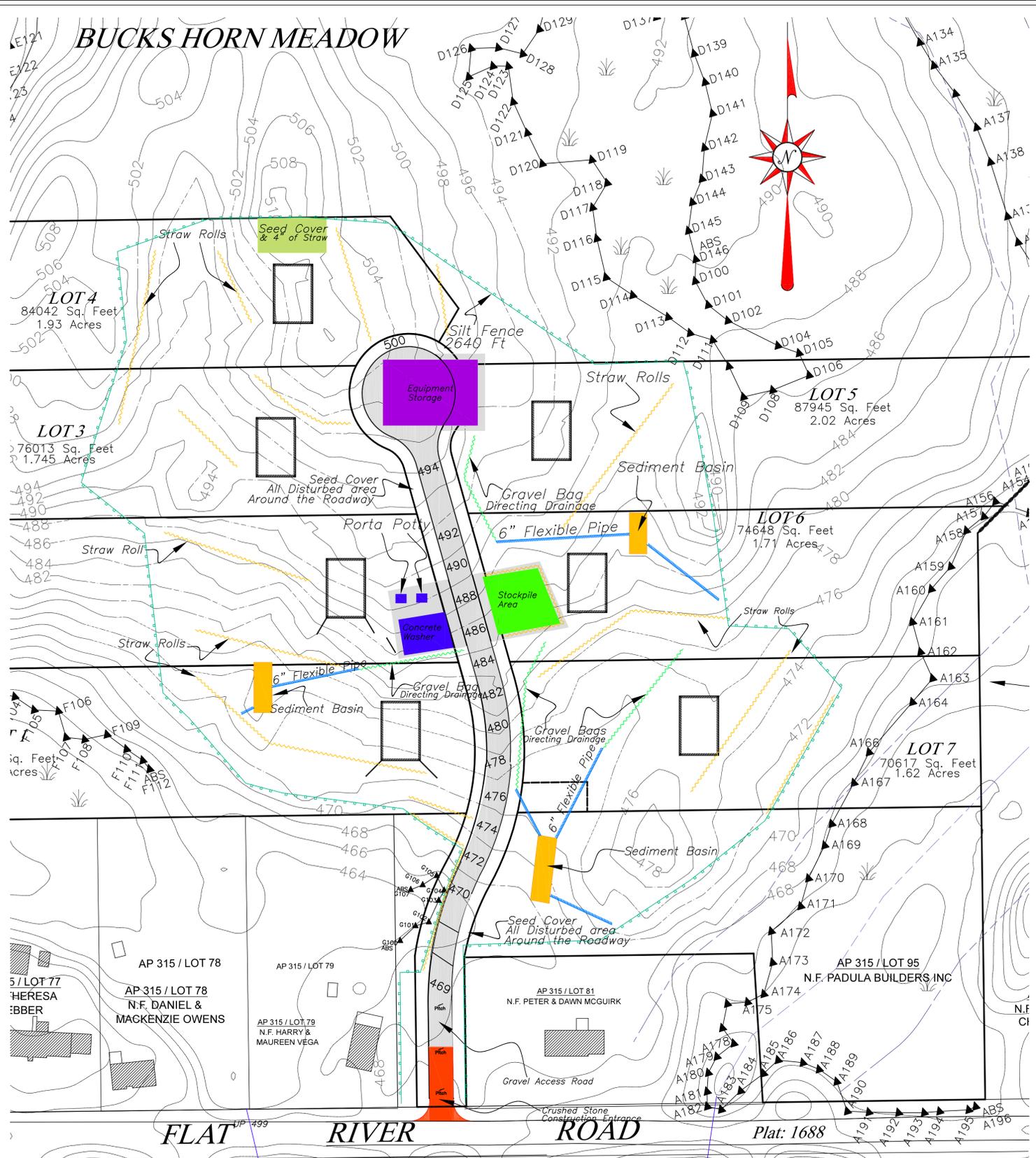
BY: Samuel Suorsa 2/9/2023
 REGISTERED PROFESSIONAL LAND SURVEYOR SIGNATURE
 Samuel R. Suorsa, PLS
 REGISTERED PROFESSIONAL LAND SURVEYOR PRINTED NAME
 A-68
 CERTIFICATE OF AUTHORIZATION NO.

PHASES OF THE PROJECT

- The Project will be developed in two phases.
- PHASES:
- PHASE No. 1: Will be developed the Street and the Lots 5, 6 & 7, that will represent a disturbed area of 4.6 acres.
 - PHASE No. 2: Will be developed the Lots 1, 2, 3 & 4, that will represent a disturbed area of 3.9 acres.

Area and Zoning Summary Table

PROPOSED LOT	REQUIRED	EXISTING	PROPOSED
PROPOSED LOT 1	43,560 SF	2,321,179 SF	103,005 SF
LOT AREA	150 FEET	282 FEET	154 FEET
FRONTAGE	35 FEET	85 FEET	35 FEET
SIDE SETBACK	43,560 SF	2,321,179 SF	89,824 SF
LOT AREA	150 FEET	282 FEET	154 FEET
FRONTAGE	35 FEET	85 FEET	35 FEET
SIDE SETBACK	43,560 SF	2,321,179 SF	82,113 SF
LOT AREA	150 FEET	282 FEET	181 FEET
FRONTAGE	35 FEET	85 FEET	35 FEET
SIDE SETBACK	43,560 SF	2,321,179 SF	96,467 SF
LOT AREA	150 FEET	282 FEET	151 FEET
FRONTAGE	35 FEET	85 FEET	35 FEET
SIDE SETBACK	43,560 SF	2,321,179 SF	84,987 SF
LOT AREA	150 FEET	282 FEET	156 FEET
FRONTAGE	35 FEET	85 FEET	35 FEET
SIDE SETBACK	43,560 SF	2,321,179 SF	71,792 SF
LOT AREA	150 FEET	282 FEET	154 FEET
FRONTAGE	35 FEET	85 FEET	35 FEET
SIDE SETBACK	43,560 SF	2,321,179 SF	67,042 SF
LOT AREA	150 FEET	282 FEET	152 FEET
FRONTAGE	35 FEET	85 FEET	35 FEET
SIDE SETBACK	43,560 SF	2,321,179 SF	67,042 SF
LOT AREA	150 FEET	282 FEET	152 FEET
FRONTAGE	35 FEET	85 FEET	35 FEET
SIDE SETBACK	43,560 SF	2,321,179 SF	67,042 SF
LOT AREA	150 FEET	282 FEET	152 FEET
FRONTAGE	35 FEET	85 FEET	35 FEET
SIDE SETBACK	43,560 SF	2,321,179 SF	67,042 SF
LOT AREA	150 FEET	282 FEET	152 FEET
FRONTAGE	35 FEET	85 FEET	35 FEET
SIDE SETBACK	43,560 SF	2,321,179 SF	67,042 SF
LOT AREA	150 FEET	282 FEET	152 FEET
FRONTAGE	35 FEET	85 FEET	35 FEET
SIDE SETBACK	43,560 SF	2,321,179 SF	67,042 SF
LOT AREA	150 FEET	282 FEET	152 FEET
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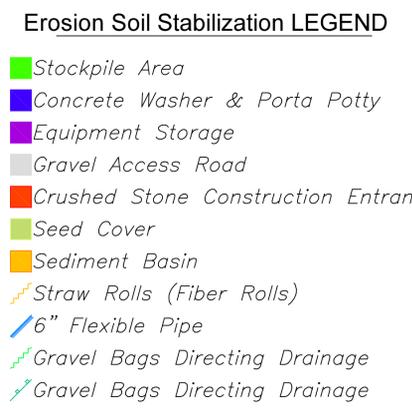
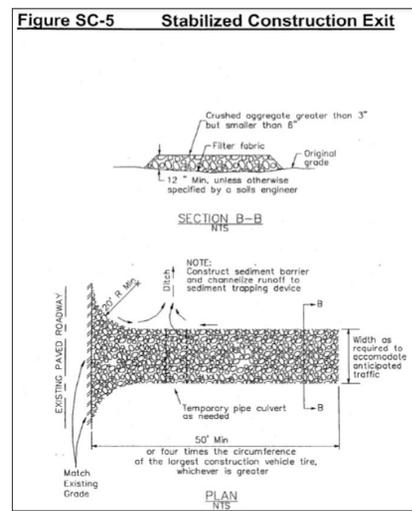
EROSION SOIL STABILIZATION PLAN FOR CONSTRUCTION PERIOD

NOTE:

- The elements shown on this plan that belong to the soil stabilization and erosion control plan, are temporary, and not relevant to the project.
- The Project will be developed in two (2) Phases, consequently the elements used will depend on the phase that is being developed.

PHASES:

- PHASE No. 1:** Will be developed the Street and the Lots 5, 6 & 7, that will represent a disturbed area of 4.6 acres.
- PHASE No. 2:** Will be developed the Lots 1, 2, 3 & 4, that will represent a disturbed area of 3.9 acres.



GENERAL NOTES:

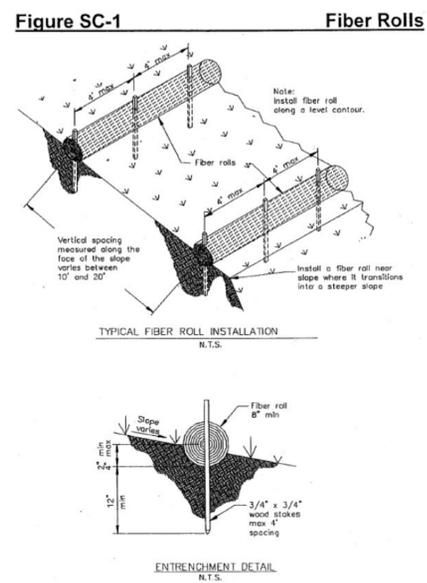
- THE TEMPORARY SEDIMENT TRAP SHALL MEET ALL REQUIREMENTS FOR TEMPORARY SEDIMENT TRAPS OUTLINED IN THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK (LATEST REVISION), SECTION SIX: SEDIMENT CONTROL MEASURES.
- THE TEMPORARY SEDIMENT TRAP SHALL HAVE AN INITIAL STORAGE VOLUME OF 134 CUBIC YARDS PER ACRE OF DRAINAGE AREA.
- ALL CUT AND FILL SLOPES SHALL BE 2:1 OR FLATTER.
- THE OUTLET SHALL BE LOCATED AT THE MOST DISTANT HYDRAULIC POINT FROM THE INLET.
- THE OUTLET CONSISTS OF A PERVIOUS STONE DIKE WITH A CORE OF MODIFIED RIP RAP AND FACED ON THE UPSTREAM SIDE WITH STONE.
- TEMPORARY SEDIMENT TRAPS MUST OUTLET ONTO STABILIZED GROUND.
- MAXIMUM HEIGHT OF A TEMPORARY SEDIMENT TRAP EMBANKMENT IS LIMITED TO FIVE FEET.
- SIDE SLOPES OF THE EMBANKMENT SHALL BE 2:1 OR FLATTER.
- MODIFIED RIP RAP SHALL MEET THE REQUIREMENTS OF RIDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SUBSECTION M.10.03.2 AND BE R-4 GRADE RIPRAP.
- FILTER STONE SHALL MEET THE REQUIREMENTS OF RIDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SUBSECTION M.01.03 TABLE I COLUMN V FILTER STONE.

INSPECTION, MAINTENANCE AND REMOVAL REQUIREMENTS:

- INSTALL SEDIMENT STORAGE STAKE WITH A MARKER AT ONE HALF OF THE WET STORAGE VOLUME.
- INSPECT THE TEMPORARY SEDIMENT TRAP AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 0.25 INCHES OR GREATER.
- CHECK THE OUTLET TO ENSURE THAT IT IS STRUCTURALLY SOUND AND HAS NOT BEEN DAMAGED BY EROSION OF CONSTRUCTION EQUIPMENT.
- CHECK FOR SEDIMENT ACCUMULATION AND FILTRATION PERFORMANCE.
- WHEN SEDIMENTS HAVE ACCUMULATED TO ONE HALF THE MINIMUM REQUIRED VOLUME OF THE WET STORAGE, DEWATER THE TRAP AS NEEDED, REMOVE SEDIMENTS AND RESTORE THE TRAP TO ITS ORIGINAL DIMENSIONS.
- DISPOSE OF THE SEDIMENT REMOVED FROM THE BASIN IN A SUITABLE AREA.
- THE TEMPORARY SEDIMENT TRAP MAY BE REMOVED AFTER THE CONTRIBUTING DRAINAGE AREA IS STABILIZED.

INSTALLATION NOTES:

- CLEAR GRUB AND STRIP ANY VEGETATION AND ROOT MAT FROM ANY PROPOSED EMBANKMENT AND OUTLET AREA.
- REMOVE STONES AND ROCKS WHOSE DIAMETER IS GREATER THAN 3 INCHES AND OTHER DEBRIS.
- EXCAVATE WET STORAGE AND CONSTRUCT THE EMBANKMENT AND/OR OUTLET AS NEEDED TO ATTAIN THE NECESSARY STORAGE REQUIREMENTS.
- USE ONLY FILL MATERIAL FOR THE EMBANKMENT THAT IS FREE FROM EXCESSIVE ORGANICS, DEBRIS, LARGE ROCKS (OVER SIX INCHES) OR OTHER UNSUITABLE MATERIALS. COMPACT THE EMBANKMENT IN 9 INCH LAYERS BY TRAVERSING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED.
- STABILIZE THE EARTHEN EMBANKMENT USING ANY OF THE FOLLOWING MEASURES, SEEDING FOR TEMPORARY VEGETATION COVER, SEEDING FOR PERMANENT VEGETATIVE COVER, OR SLOPE PROTECTION, IMMEDIATELY AFTER INSTALLATION.

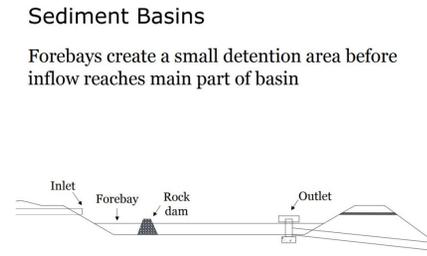


Erosion Control Blankets (ECB)

Material	ECB Type 3		ECB Type 4	
	Straw/Cocnut	Wood	Cocnut	Wood
Min. Thickness (ASTM D 6523)	0.25 inch	0.25 inch	0.25 inch	0.50 inch
Max. Shear Stress at 0.5 inch soil loss (ASTM D 6460)	1.75 lbs/sf	2.00 lbs/sf	2.25 lbs/sf	2.25 lbs/sf
Slope Gradient Application	≤ 1.5H:1V	≤ 1.5H:1V	≤ 1H:1V	≤ 1H:1V
Functional Longevity	12 to 24 months		> 24 months	

Erosion Control Blankets (ECB)

Material	ECB Type 3		ECB Type 4	
	Straw/Cocnut	Wood	Cocnut	Wood
Min. Thickness (ASTM D 6523)	0.25 inch	0.25 inch	0.25 inch	0.50 inch
Max. Shear Stress at 0.5 inch soil loss (ASTM D 6460)	1.75 lbs/sf	2.00 lbs/sf	2.25 lbs/sf	2.25 lbs/sf
Slope Gradient Application	≤ 1.5H:1V	≤ 1.5H:1V	≤ 1H:1V	≤ 1H:1V
Functional Longevity	12 to 24 months		> 24 months	



PROJECT ENGINEER:
Arthur R. Cripps, Jr., PE
200 Shippee Flat Road
Coventry, RI 02816

Scale in feet: 1"=60'

Graphic Scale

Revisions:

11/19/2022	DOT Revisions
2/17/2022	DEM Revisions

SAMUEL R. SUORSA

PROFESSIONAL LAND SURVEYOR

No. 2508

COVENTRY SURVEY CO.

46 South Main Street
Coventry, Rhode Island 02816
(401) 823-5028

Land Surveying / Mapping / O&MS Designs

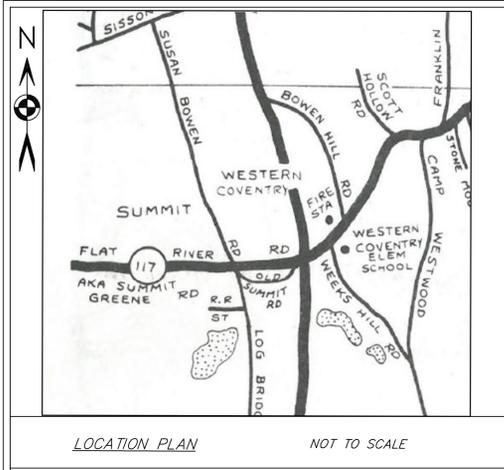
Preliminary Submission

Erosion Soil Stabilization Plan for Construction on Flat River Road in the Town of Coventry, Rhode Island

Assessor's Plat 315/ Lot 80

Prepared for: Padula Builders Inc.
1430 Main St. West Warwick RI 02893

Date:
August 18, 2023

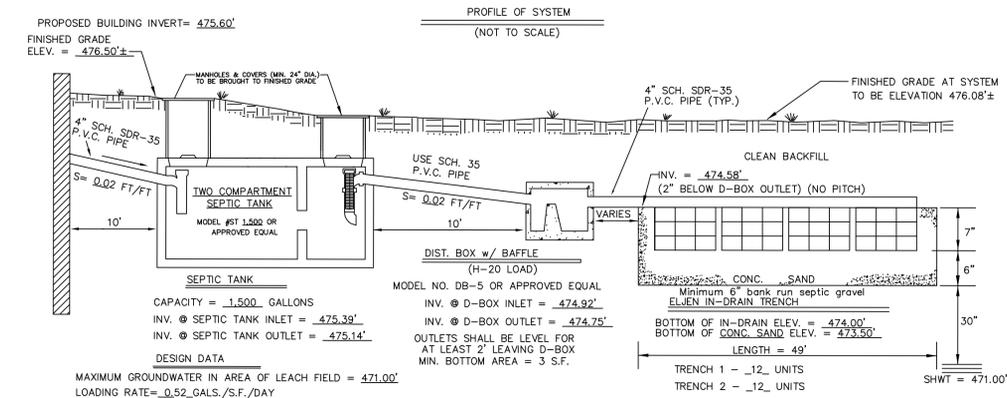
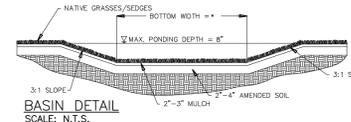
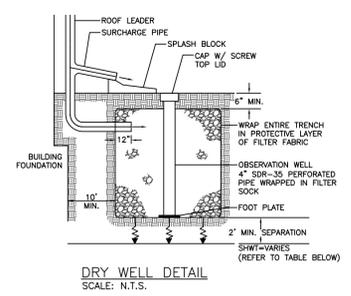


Drainage Calculations
 (Reference: CRMC Guidance Document for Single-Family Development-Revised 2/13/2013)
 Sandy Soils-See test hole forms

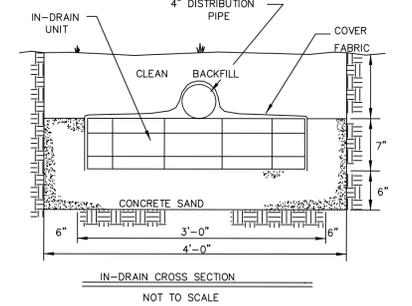
Reference
 Soil Evaluations #0306-2031 9/(2-3)/2021
 SE 1 Watertable: 48"
 SE 2 Watertable: 30"
 Rooftop Runoff (See Table 10 page 14 of Reference)
 Proposed Dwelling Footprint Area= 2400 SF
 Proposing 4 8'X9' (72 SF) dry wells (A, B, C & D) at 24" stone depth
 Each dry well allocates 600 SF of rooftop runoff
 4 dry wells x 600 sf storage = 2400 SF Provided
 Dry Well A Bottom Elevation= 479.00' (Water Table Elev.=471.00)
 Dry Well B Bottom Elevation= 479.00' (Water Table Elev.=471.00)
 Dry Well C Bottom Elevation= 477.00' (Water Table Elev.=471.00)
 Dry Well D Bottom Elevation= 476.00' (Water Table Elev.=471.00)

Driveway Runoff (See Table 5 page 8 of Reference)
 Proposed Impervious Driveway Area= 1209 SF
 Proposing 2 - 8' wide (4' bottom width) x 8' deep infiltration basin
 The basin has 195 square feet of bottom area
 Total basin for impervious area provided=1218.75 SF > required impervious area=1209 SF
 Basin Bottom Elevation=475.50' (Water Table Elev.=471.00)
 Pitch Driveway 3% toward basin.

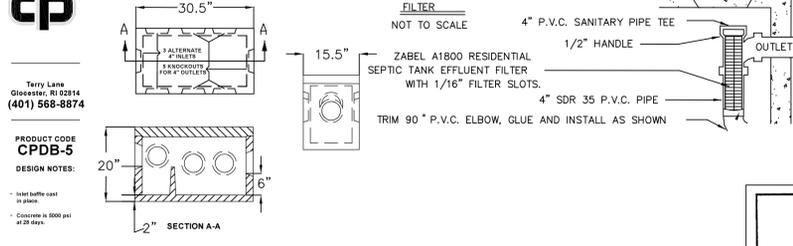
NOTE:
 Excavate and scarife infiltration areas prior to their installation.



PROPOSED BUILDING INVERT= 475.60'
 FINISHED GRADE ELEV. = 476.50'±
 SEPTIC TANK
 CAPACITY = 1,500 GALLONS
 INV. @ SEPTIC TANK INLET = 475.39'
 INV. @ SEPTIC TANK OUTLET = 475.14'
 DESIGN DATA
 MAXIMUM GROUNDWATER IN AREA OF LEACH FIELD = 471.00'
 REQUIRED LEACHING AREA = 115 GAL/GALS/DAY/BDRM = 575 GAL/DAY
 460 GAL/DAY / 0.52 GAL/SF/DAY = 884 S.F. REQUIRED
 ELVEN IN-DRAINS REQUIRED = 32
 (1) L.F. PER 7 S.F. OF REQ. AREA = (884 S.F. / 7 = 126 L.F.)
 PROVIDED 33 UNITS @ 4 LF UNIT = 132 L.F. x 7 SF/LF = 924 S.F.

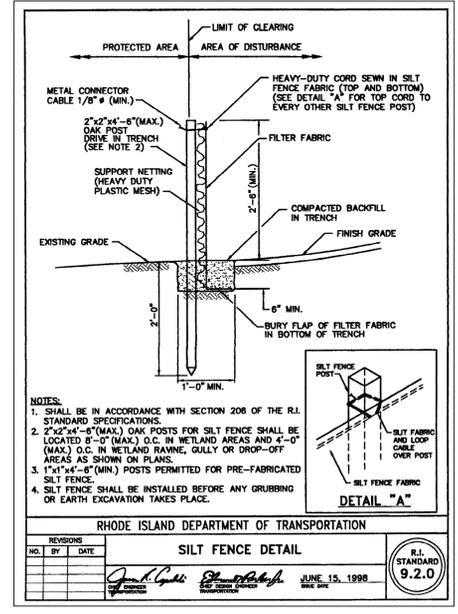


Distribution Box - 5

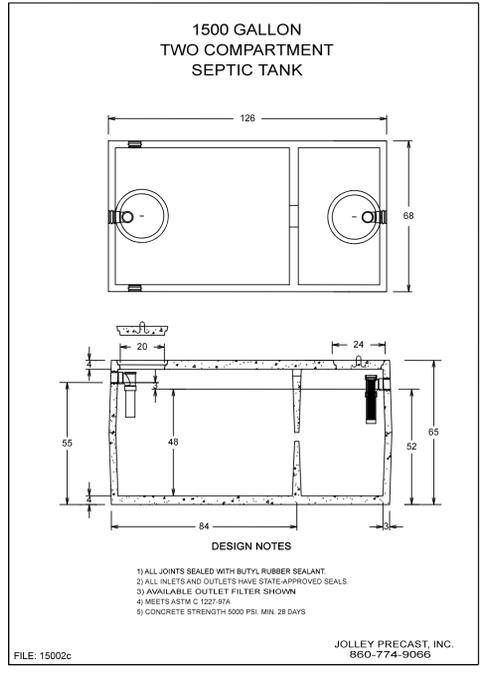
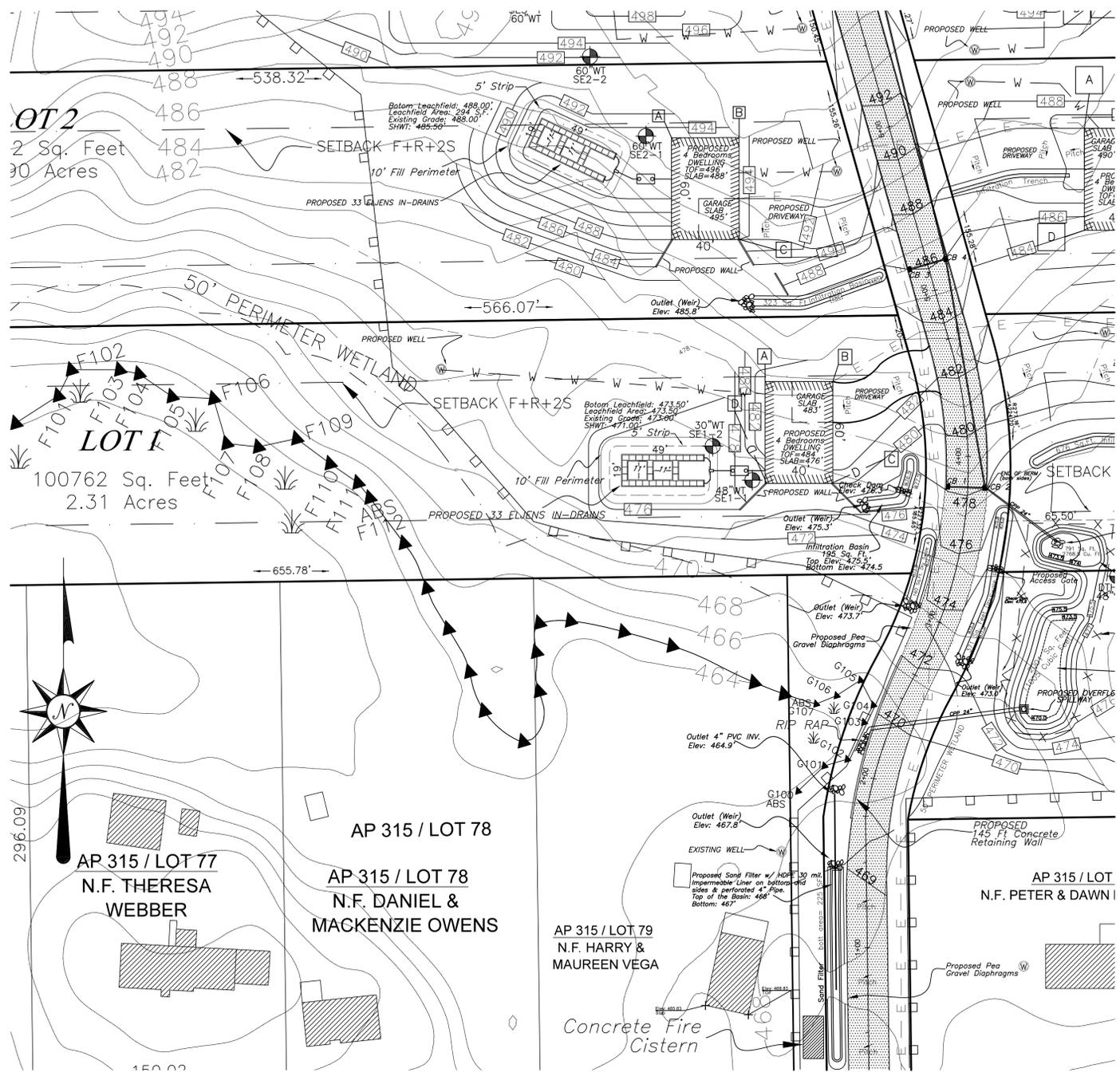


NOTES
 Do not park on OWTS area. Seed OWTS area with grass.
 Extend septic tank manhole to grade as shown. Grade to divert runoff.
 Remove all vegetation & trees within 10' of proposed OWTS.
 No OWTS existing or proposed within 100' of proposed well.
 No wells existing or proposed within 200' of proposed OWTS, except as noted.
 No public wells existing or proposed within 500' of proposed OWTS.
 No underground drains existing or proposed within 25' of OWTS.
 Use 4" diameter sewer pipe (SDR 35) watertight joints.
 Designer must supervise all phases of installation of OWTS.

- ADDITIONAL NOTES**
- 1) Refer to Application #0306-2031
 - 2) Excavate OWTS Area and 5' around to elevation 469.66± or to remove subsoil soil & fines. Install bank run septic gravel to Elev. 474.25'
 - 3) Install 6" of concrete sand under and around in-drains
 - 4) Installer to contact designer prior to start of construction
 - 5) Installer to provide copies of any state inspection reports & receipts for material and components
 - 6) Wetlands delineated by Applied Bio-Systems Inc.; Field located by CSC.



NOTES:
 1. SHALL BE IN ACCORDANCE WITH SECTION 206 OF THE R.I. STANDARD SPECIFICATIONS.
 2. 2"x4"-8"(MAX.) OAK POSTS FOR SILT FENCE SHALL BE LOCATED 8'-0"(MAX.) O.C. IN WETLAND AREAS AND 4'-0"(MAX.) O.C. IN WETLAND RAINING, GULLY OR DROP-OFF AREAS AS SHOWN ON PLANS.
 3. 1"x4"-8"(MIN.) POSTS PERMITTED FOR PRE-FABRICATED SILT FENCES.
 4. SILT FENCE SHALL BE INSTALLED BEFORE ANY GRUBBING OR EARTH EXCAVATION TAKES PLACE.



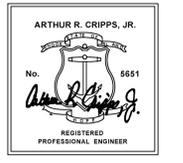
CERTIFICATION
 THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO SECTION 435-RICR-00-00-1.9 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND STATE BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS ON NOVEMBER 25, 2015, AS FOLLOWS:

(A) TYPE OF BOUNDARY SURVEY: MEASUREMENT SPECIFICATION
 NOT A BOUNDARY SURVEY IV

(B) OTHER TYPE OF SURVEY: III
 Location of Site Features and Topography

(C) STATEMENT OF PURPOSE: II
 THE PURPOSE OF THIS PLAN IS TO SHOW SITE FEATURES SUFFICIENT TO DESIGN OWTS AND DRAINAGE.

BY: Samuel R. Suorsa
 REGISTERED PROFESSIONAL LAND SURVEYOR SIGNATURE
 Samuel R. Suorsa, PLS
 REGISTERED PROFESSIONAL LAND SURVEYOR PRINTED NAME
 A-68
 CERTIFICATE OF AUTHORIZATION NO.



PROJECT ENGINEER:
 Arthur R. Cripps, Jr., PE
 200 Shippee Flat Road
 Coventry, RI 02816

Scale in feet: 1"=40'

Revisions:

SAMUEL R. SUORSA
 No. 2508
 PROFESSIONAL LAND SURVEYOR

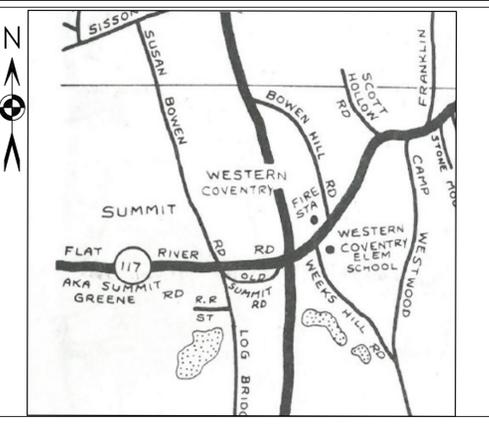
GOVENTRY SURVEY CO.
 46 South Main Street
 Coventry, Rhode Island 02816
 (401) 823-5028
 Land Surveying / Mapping / OWTS Designs

Preliminary Submission

Lot 1 - Drainage and OWTS Plan
 on Flat River Road
 in the Town of Coventry, Rhode Island
 Assessor's Plat 315/ Lot 80
 Prepared for: Podula Builders Inc.
 1430 Main St. West Warwick RI 02893

Date:
 Dec. 30, 2023

Sheet 6 of 17



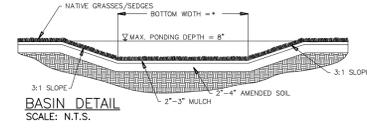
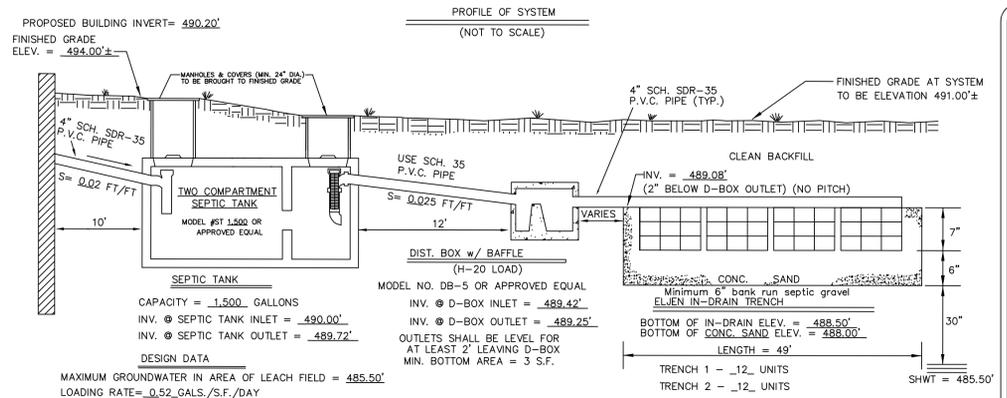
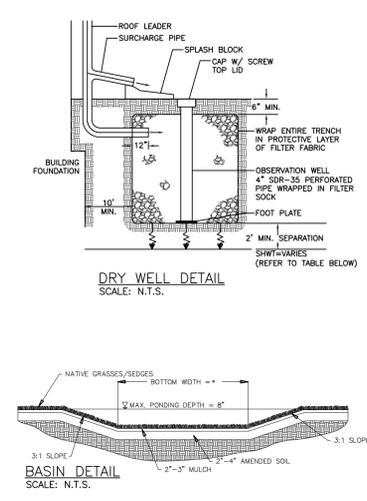
Drainage Calculations
 (Reference: CRMC Guidance Document for Single-Family Development-Revised 2/13/2013)
 Sandy Soils-See test hole forms

Reference
 Soil Evaluations #0306-2031 9/(2-3)/2021
 SE 1 Watertable: 60"
 SE 2 Watertable: 60"

Rooftop Runoff (See Table 10 page 14 of Reference)
 Proposed Dwelling Footprint Area= 2400 SF
 Proposing 2 7'x7' (49 SF) dry wells (A & B) at 36" stone depth
 Each dry well allocates 600 SF of rooftop runoff
 Proposing 1 9'x9' (81 SF) dry wells (C) at 48" stone depth
 This dry well allocates 1200 SF of rooftop runoff
 2 dry wells x 600 sf storage = 1200 SF Provided
 1 dry wells x 1200 sf storage = 1200 SF Provided
 Dry Well A Bottom Elevation= 489.00' (Water Table Elev.=485.50')
 Dry Well B Bottom Elevation= 491.50' (Water Table Elev.=485.50')
 Dry Well C Bottom Elevation= 488.00' (Water Table Elev.=485.50')

Driveway Runoff (See Table 5 page 8 of Reference)
 Proposed Impervious Driveway Area= 1915 SF
 Proposing 2 - 8' wide (4' bottom width) x 8' deep infiltration basin
 The basin has 323 square feet of bottom area
 Total basin for impervious area provided=2018.75 SF > required impervious area=1915 SF
 Basin Bottom Elevation=485.00' (Water Table Elev.=482.00')
 Pitch Driveway 3% toward basin.

NOTE:
 Excavate and scarifie infiltration areas prior to their installation.

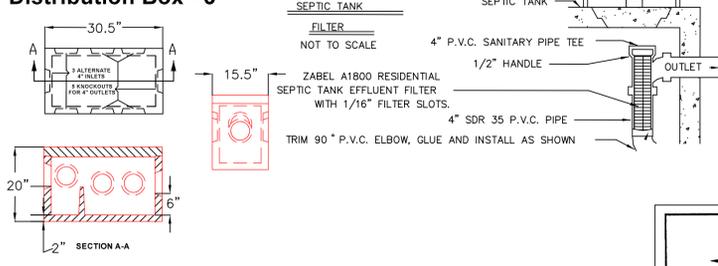


Distribution Box - 5

CP
 Terry Lane
 Cranston, RI 02914
 (401) 568-8874

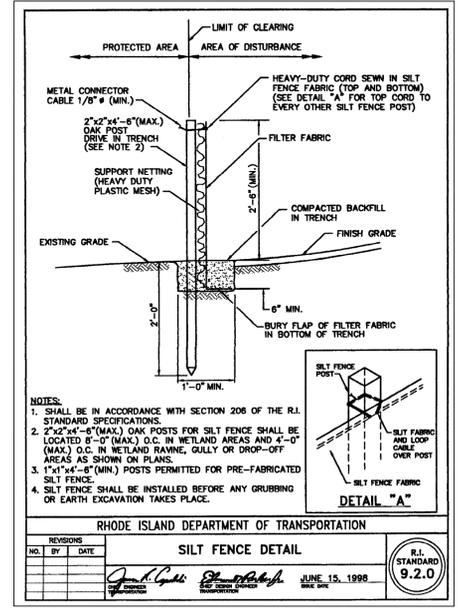
PRODUCT CODE
CPDB-5

DESIGN NOTES:
 1. Not built cast in place.
 2. Concrete is 5000 psi at 28 days.



NOTES
 Do not park on OWTS area. Seed OWTS area with grass.
 Use H-20 Load distribution box. Minimum 3sq ft bottom area.
 Extend septic tank manhole to grade as shown. Grade to divert runoff.
 Remove all vegetation & trees within 10' of proposed OWTS.
 No OWTS existing or proposed within 100' of proposed well.
 No wells existing or proposed within 200' of proposed OWTS, except as noted.
 No public wells existing or proposed within 500' of proposed OWTS.
 No underground drains existing or proposed within 25' of OWTS.
 Use 4" diameter sewer pipe (SDR 35) watertight joints.
 Designer must supervise all phases of installation of OWTS.

ADDITIONAL NOTES
 1) Refer to Application #0306-2031
 2) Excavate OWTS Area and 5' around to elevation 481.50± or to remove subsoil soil & fines. Install bank run septic gravel to Elev. 489.25'.
 3) Install 6" of concrete sand under and around in-drains
 4) Installer to contact designer prior to start of construction
 5) Installer to provide copies of any state inspection reports & receipts for material and components.
 6) Wetlands delineated by Applied Bio-Systems Inc.; Field located by CSC.



REVISIONS	
NO.	DATE

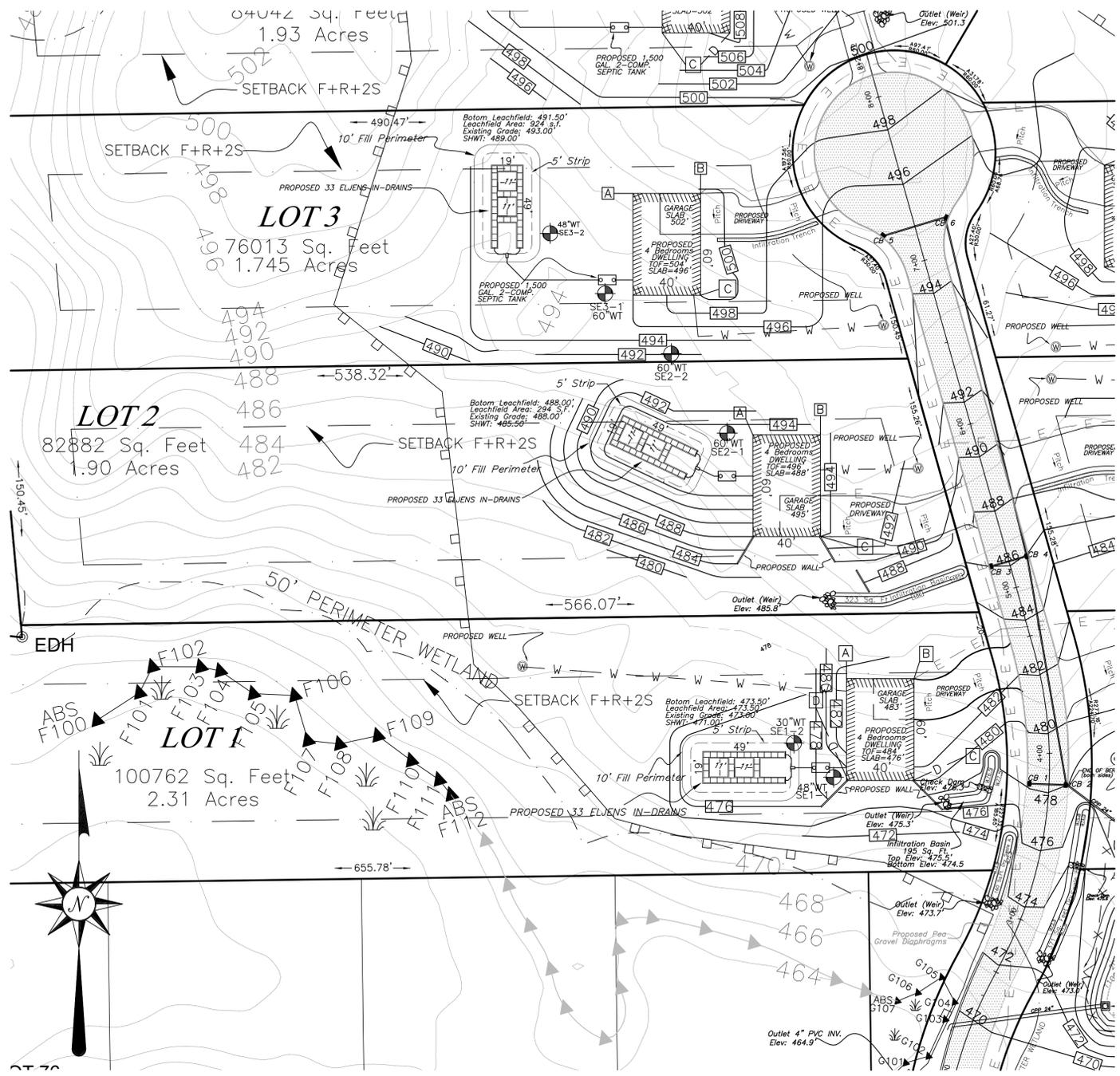
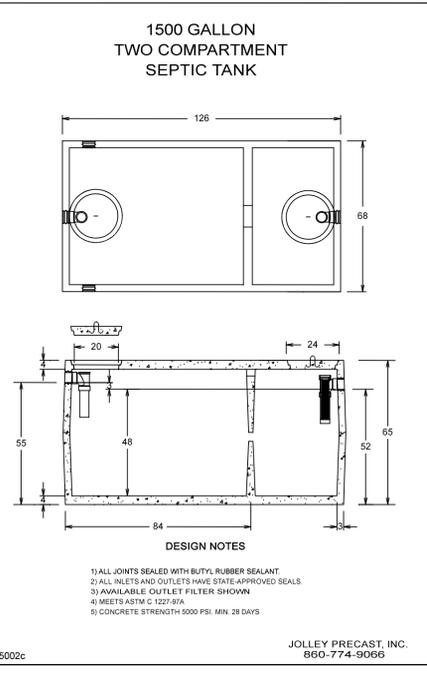
RHODE ISLAND DEPARTMENT OF TRANSPORTATION
 SILT FENCE DETAIL
 JUNE 15, 1998
 R.I. STANDARD 9.2.0

CERTIFICATION
 THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO SECTION 435-RICR-00-00-1.9 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND STATE BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS ON NOVEMBER 25, 2015, AS FOLLOWS:

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 NOT A BOUNDARY SURVEY IV

(B) OTHER TYPE OF SURVEY: III
 Location of Site Features and Topography

(C) STATEMENT OF PURPOSE:
 THE PURPOSE OF THIS PLAN IS TO SHOW SITE FEATURES SUFFICIENT TO DESIGN OWTS AND DRAINAGE.



Scale in feet: 1"=40'
 Revisions:
 SAMUEL R. SUORSA
 No. 2508
 PROFESSIONAL LAND SURVEYOR

46 South Main Street
 Coventry, Rhode Island 02816
 (401) 823-5028
 Land Surveying / Mapping / OWTS Designs

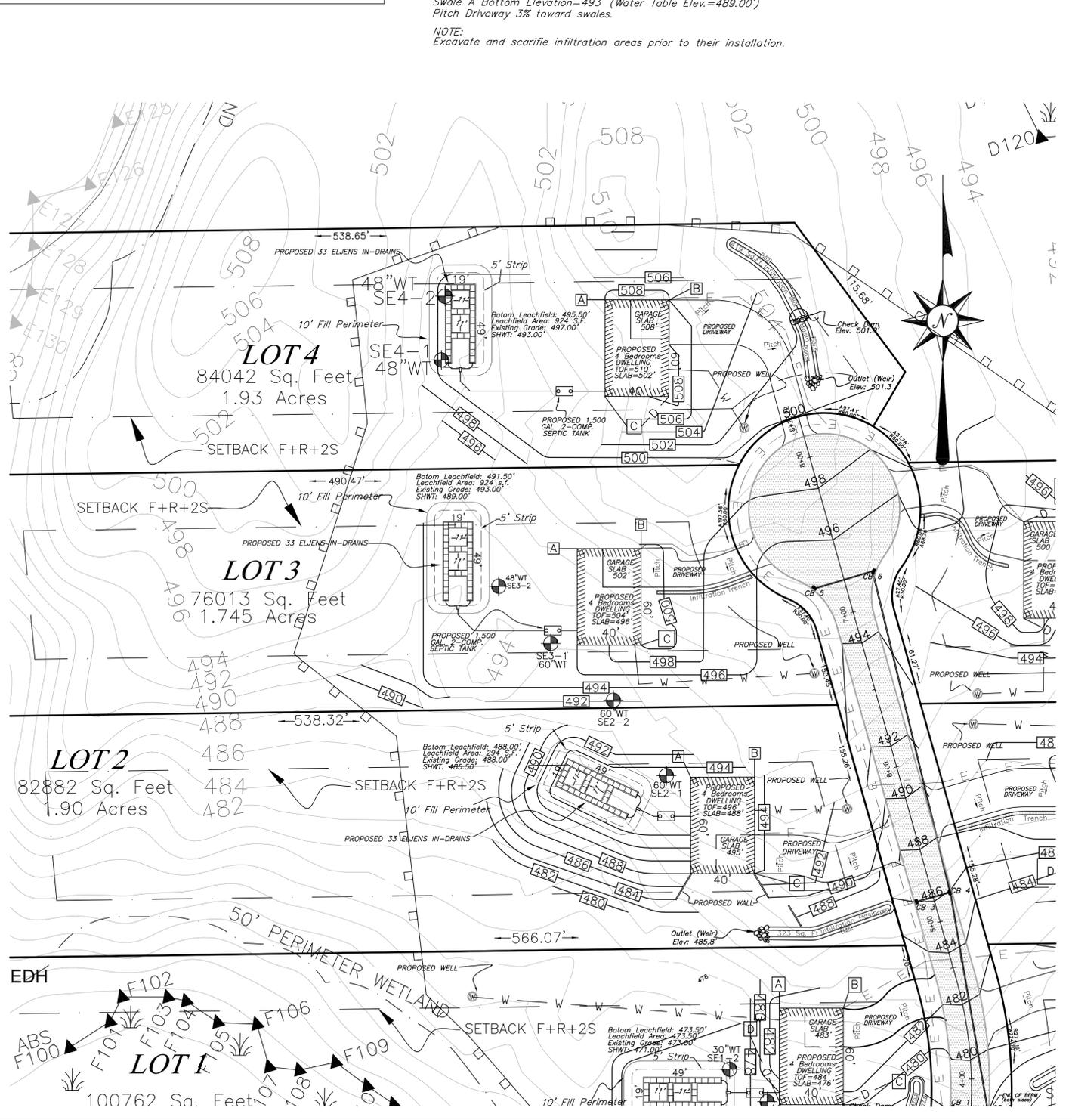
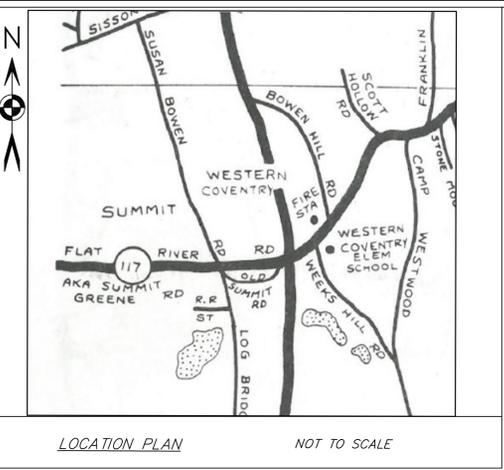
COVENTRY SURVEY CO.

Preliminary Submission
 Lot 2 - Drainage and OWTS Plan
 on Flat River Road
 in the Town of Coventry, Rhode Island
 Assessor's Plat 315/ Lot 80
 Prepared for: Podula Builders Inc.
 1430 Main St. West Warwick RI 02893

Date:
 Dec. 30, 2023

Sheet 7 of 17

PROJECT ENGINEER:
 Arthur R. Cripps Jr., PE
 200 Shippee Plat Road
 Coventry, RI 02816



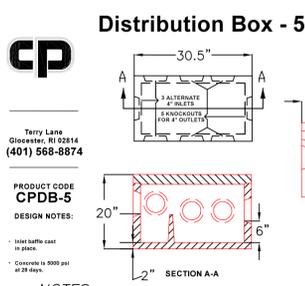
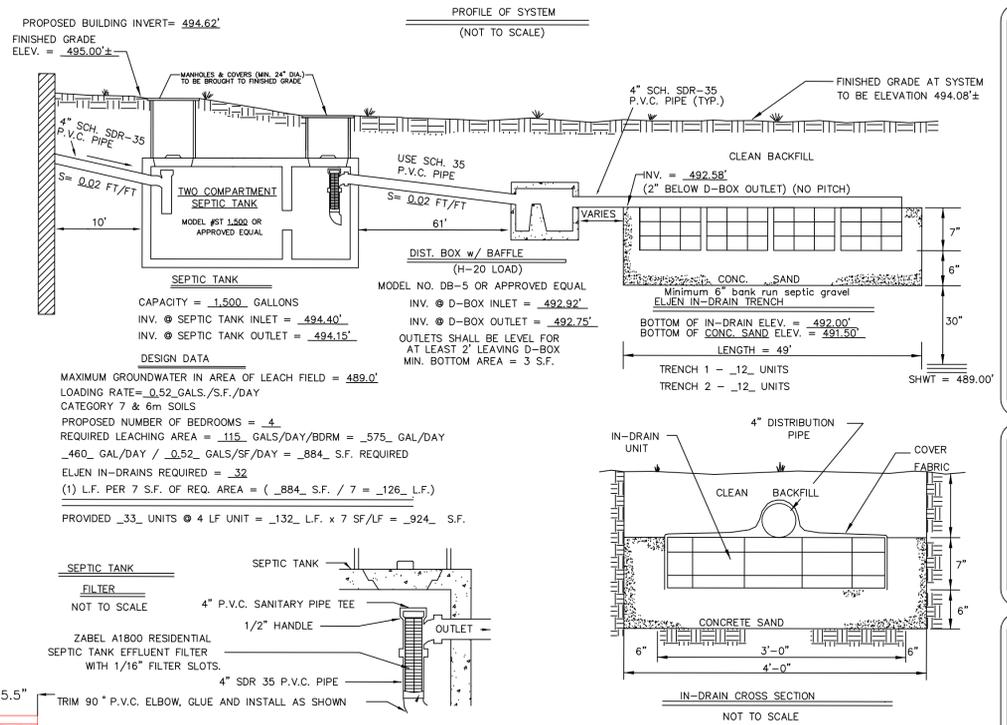
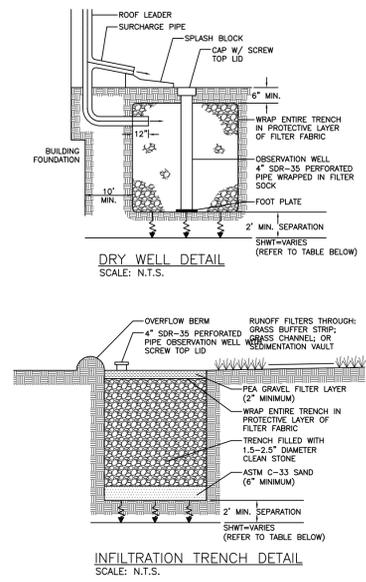
Drainage Calculations
 (Reference: CRMC Guidance Document for Single-Family Development-Revised 2/13/2013)
 Sandy Soils-See test hole forms

Reference
 Soil Evaluations #0306-2031 9/(2-3)/2021
 SE 1 Watertable: 60"
 SE 2 Watertable: 48"

Rooftop Runoff (See Table 10 page 14 of Reference)
 Proposed Dwelling Footprint Area= 2400 SF
 Proposing 2 7'X7' (49 SF) dry wells (A & B) at 36" stone depth
 Each dry well allocates 600 SF of rooftop runoff
 Proposing 1 10'X10' (100 SF) dry wells (C) at 36" stone depth
 This dry well allocates 1200 SF of rooftop runoff
 2 dry wells x 600 sf storage = 1200 SF Provided
 1 dry wells x 1200 sf storage = 1200 SF Provided
 Dry Well A Bottom Elevation= 493.00' (Water Table Elev.=489.00')
 Dry Well B Bottom Elevation= 498.50' (Water Table Elev.=489.00')
 Dry Well C Bottom Elevation= 497.50' (Water Table Elev.=489.00')
 Proposed 18" layer of ASTM C-33 sand below the Dry Well C

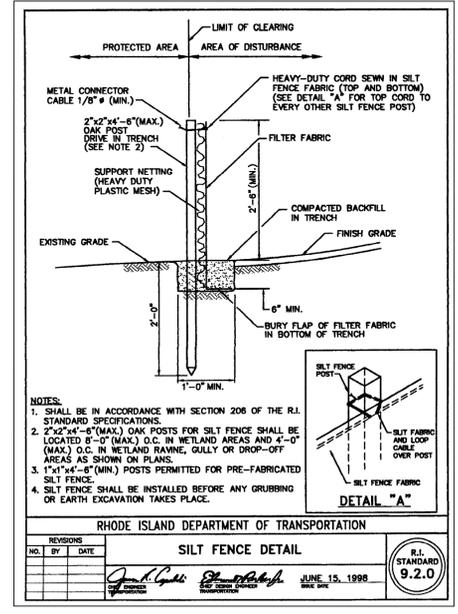
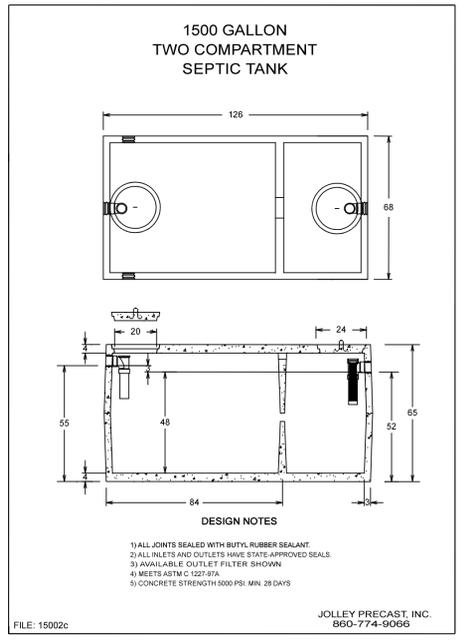
Driveway Runoff (See Tables 10 & 11 page 14 & 15 of Reference)
 Proposed Impervious Driveway Area= 1449 SF
 Proposing 2' wide x 36" deep infiltration trench
 The Infiltration Trench has 121 square feet area
 The infiltration trench area required where 116 SF < proposed area=121SF
 Swale A Bottom Elevation=493' (Water Table Elev.=489.00')
 Pitch Driveway 3% toward swales.

NOTE:
 Excavate and scarify infiltration areas prior to their installation.



NOTES
 Do not park on OWTS area. Seed OWTS area with grass.
 Use H-20 Load distribution box. Minimum 3sq ft bottom area.
 Extend septic tank manhole to grade as shown. Grade to divert runoff.
 Remove all vegetation & trees within 10' of proposed OWTS.
 No OWTS existing or proposed within 100' of proposed well.
 No wells existing or proposed within 200' of proposed OWTS, except as noted.
 No public wells existing or proposed within 500' of proposed OWTS.
 No underground drains existing or proposed within 25' of OWTS.
 Use 4" diameter sewer pipe (SDR 35) watertight joints.
 Designer must supervise all phases of installation of OWTS.

ADDITIONAL NOTES
 1) Refer to Application #0306-2031
 2) Excavate OWTS Area and 5' around to elevation 489.00'± or to remove subsoil soil & fines.
 Install bank run septic gravel to Elev. 492.75'.
 3) Install 6" of concrete sand under and around in-drains
 4) Installer to contact designer prior to start of construction
 5) Installer to provide copies of any state inspection reports & receipts for material and components.
 6) Wetlands delineated by Applied Bio-Systems Inc.; Field located by CSC.



CERTIFICATION
 THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO SECTION 435-RICR-00-00-1.9 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND STATE BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS ON NOVEMBER 25, 2015, AS FOLLOWS:

(A) TYPE OF BOUNDARY SURVEY: MEASUREMENT SPECIFICATION
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(B) OTHER TYPE OF SURVEY: III
 Location of Site Features and Topography

(C) STATEMENT OF PURPOSE:
 THE PURPOSE OF THIS PLAN IS TO SHOW SITE FEATURES SUFFICIENT TO DESIGN OWTS AND DRAINAGE.

BY: Samuel R. Suorsa
 REGISTERED PROFESSIONAL LAND SURVEYOR SIGNATURE

Samuel R. Suorsa, PLS
 REGISTERED PROFESSIONAL LAND SURVEYOR PRINTED NAME

A-68
 CERTIFICATE OF AUTHORIZATION NO.

ARTHUR R. CRIPPS, JR.
 No. 5651
 REGISTERED PROFESSIONAL ENGINEER

PROJECT ENGINEER:
 Arthur R. Cripps Jr., PE
 200 Shippee Plot Road
 Coventry, RI 02816

Scale in feet: 1"=40'

Revisions:

SAMUEL R. SUORSA
 No. 2508
 PROFESSIONAL LAND SURVEYOR

COVENTRY SURVEY CO.
 46 South Main Street
 Coventry, Rhode Island 02816
 (401) 823-5028
 Land Surveying / Mapping / OWTS Designs

Preliminary Submission
 Lot 3 - Drainage and OWTS Plan
 on Flat River Road
 in the Town of Coventry, Rhode Island
 Assessor's Plat 315/ Lot 80
 Prepared for: Podula Builders Inc.
 1430 Main St. West Warwick RI 02893

Date:
 Dec. 30, 2023

Sheet 8 of 17



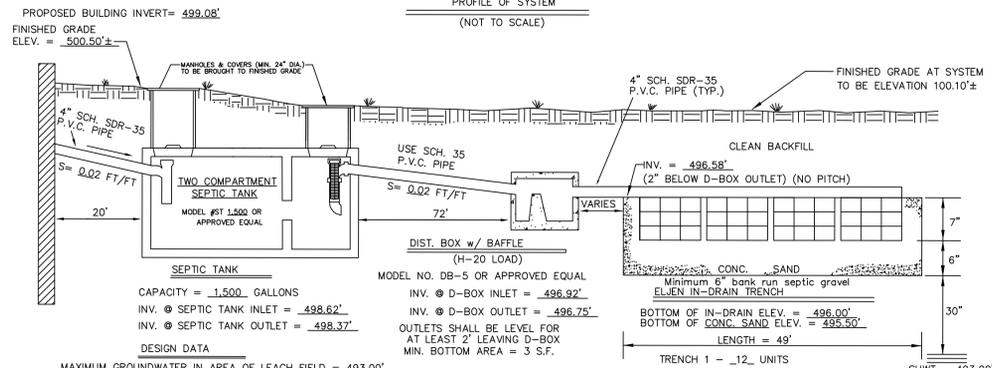
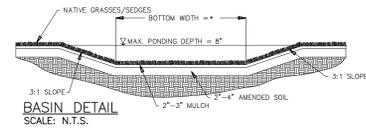
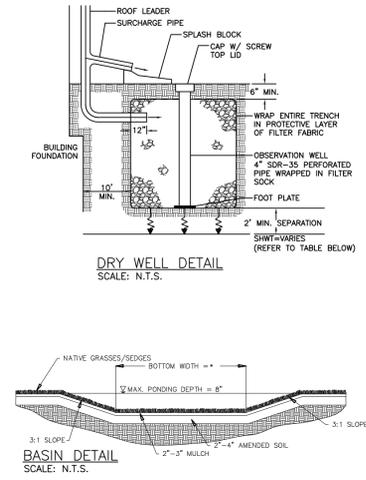
Drainage Calculations
 (Reference: CRMC Guidance Document for Single-Family Development- Revised 2/13/2013)
 Sandy Soils- See test hole forms

Reference
 Soil Evaluations #0306-2031 9/(2-3)/2021
 SE 1 Watertable: 48"
 SE 2 Watertable: 48"

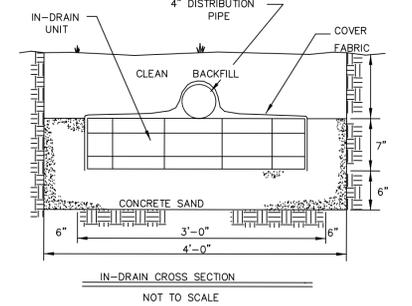
Rooftop Runoff (See Table 10 page 14 of Reference)
 Proposed Dwelling Footprint Area= 2400 SF
 Proposing 2 7'x7' (49 SF) dry wells (A & B) at 36" stone depth
 Each dry well allocates 600 SF of rooftop runoff
 Proposing 1 10'x10' (100 SF) dry well (C) at 36" stone depth
 This dry well allocates 1200 SF of rooftop runoff
 2 dry wells x 600 sf storage = 1200 SF Provided
 1 dry well x 1200 sf storage = 1200 SF Provided
 Dry Well A Bottom Elevation= 500.50' (Water Table Elev.=493.00)
 Dry Well B Bottom Elevation= 502.50' (Water Table Elev.=493.00)
 Dry Well C Bottom Elevation= 502.50' (Water Table Elev.=493.00)

Driveway Runoff (See Table 5 page 8 of Reference)
 Proposed Impervious Driveway Area= 2441 SF
 Proposing 2 - 6' wide (4' bottom width) x 8" deep infiltration basin
 The basin has 419 square feet of bottom area.
 Total basin for impervious area provided=2618.75 SF > required impervious area=2441 SF
 Basin Bottom Elevation=500.5' (Water Table Elev.=498.00)
 Pitch Driveway 3% toward basin.

NOTE:
 Excavate and scarifie infiltration areas prior to their installation.



DESIGN DATA
 MAXIMUM GROUNDWATER IN AREA OF LEACH FIELD = 493.00'
 LOADING RATE = 0.52 GALS./S.F./DAY
 CATEGORY 7 & 6m SOILS
 PROPOSED NUMBER OF BEDROOMS = 4
 REQUIRED LEACHING AREA = 115 GALS/DAY/BDRM = 575 GAL/DAY
 460 GAL/DAY / 0.52 GALS/SF/DAY = 884 S.F. REQUIRED
 ELVEN IN-DRAINS REQUIRED = 32
 (1) L.F. PER 7 S.F. OF REQ. AREA = (884 S.F. / 7 = 126 L.F.)
 PROVIDED 33 UNITS @ 4 LF UNIT = 132 L.F. x 7 SF/LF = 924 S.F.

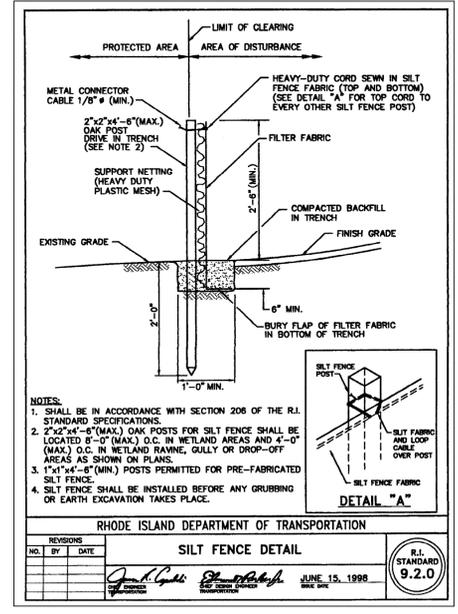


Distribution Box - 5

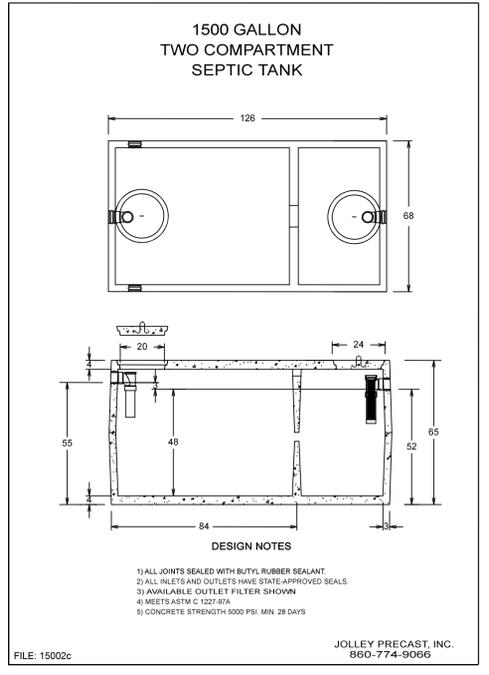
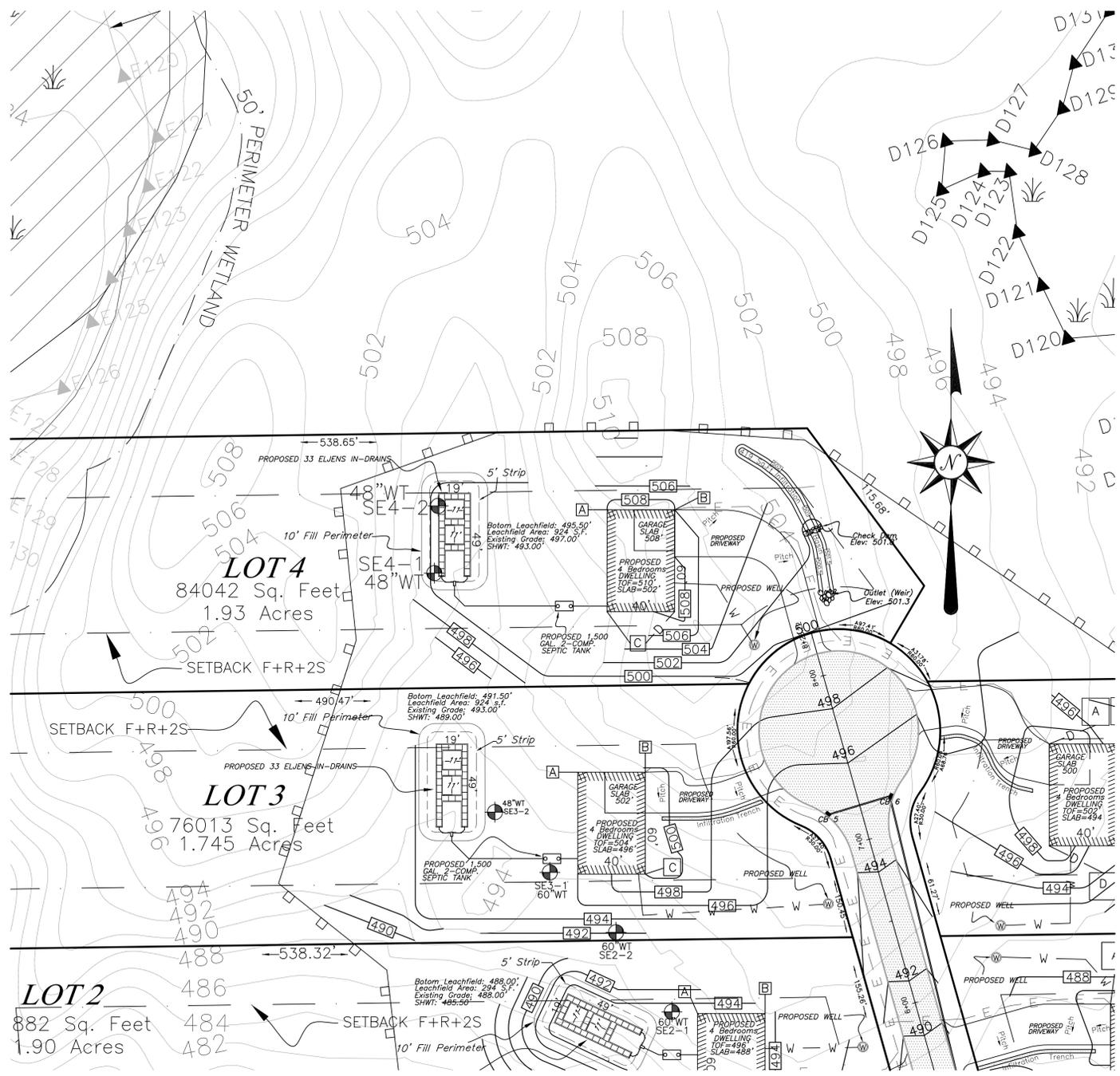


NOTES
 Do not park on OWTS area. Seed OWTS area with grass.
 Use H-20 Load distribution box. Minimum 3sq ft bottom area.
 Extend septic tank manhole to grade as shown. Grade to divert runoff.
 Remove all vegetation & trees within 10' of proposed OWTS.
 No OWTS existing or proposed within 100' of proposed well.
 No wells existing or proposed within 200' of proposed OWTS, except as noted.
 No public wells existing or proposed within 500' of proposed OWTS.
 No underground drains existing or proposed within 25' of OWTS.
 Use 4" diameter sewer pipe (SDR 35) watertight joints.
 Designer must supervise all phases of installation of OWTS.

ADDITIONAL NOTES
 1) Refer to Application #2106-1394
 2) Excavate OWTS Area and 5' around to elevation 494.50± or to remove subsoil soil & fines. Install bank run septic gravel to Elev. 496.75'.
 3) Install 6" of concrete sand under and around in-drains
 4) Installer to contact designer prior to start of construction
 5) Installer to provide copies of any state inspection reports & receipts for material and components.
 6) Wetlands delineated by Applied Bio-Systems Inc.; Field located by CSC.



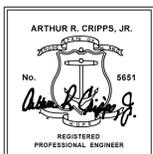
NOTES:
 1. SHALL BE IN ACCORDANCE WITH SECTION 206 OF THE R.I. STANDARD SPECIFICATIONS.
 2. 2"x2" (4" MAX.) OAK POSTS FOR SILT FENCE SHALL BE LOCATED 8'-0" (MAX.) O.C. IN WETLAND AREAS AND 4'-0" (MAX.) O.C. IN WETLAND RAINING, GULLY OR DROP-OFF AREAS AS SHOWN ON PLANS.
 3. 1"x1" (4" MIN.) POSTS PERMITTED FOR PRE-FABRICATED SILT FENCE.
 4. SILT FENCE SHALL BE INSTALLED BEFORE ANY GRUBBING OR EARTH EXCAVATION TAKES PLACE.



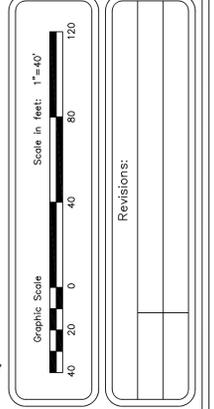
CERTIFICATION
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 Location of Site Features and Topography
- (C) STATEMENT OF PURPOSE:
 THE PURPOSE OF THIS PLAN IS TO SHOW SITE FEATURES SUFFICIENT TO DESIGN OWTS AND DRAINAGE.

BY: Samuel R. Suorsa
 REGISTERED PROFESSIONAL LAND SURVEYOR SIGNATURE
 Samuel R. Suorsa, PLS
 REGISTERED PROFESSIONAL LAND SURVEYOR PRINTED NAME
 A-68
 CERTIFICATE OF AUTHORIZATION NO.



PROJECT ENGINEER:
 Arthur R. Cripps, Jr., PE
 200 Shippee Plat Road
 Coventry, RI 02816

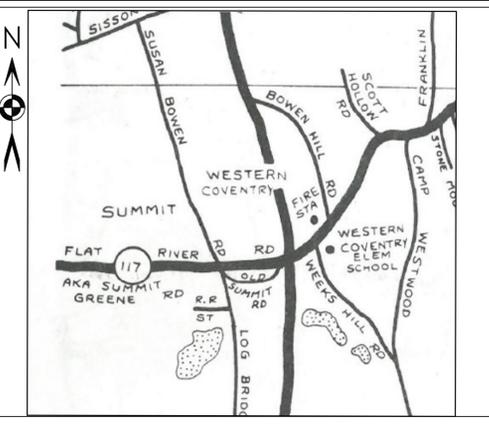


SAMUEL R. SUORSA
 No. 2508
 PROFESSIONAL LAND SURVEYOR

COVENTRY SURVEY CO.
 46 South Main Street
 Coventry, Rhode Island 02816
 (401) 823-5028
 Land Surveying / Mapping / O&WTS Designs

Preliminary Submission
 Lot 4 - Drainage and OWTS Plan
 on Flat River Road
 in the Town of Coventry, Rhode Island
 Assessor's Plat 315 / Lot 80
 Prepared for: Podula Builders Inc.
 1430 Main St. West Warwick RI 02893

Date:
 Dec. 30, 2023
 Sheet 9 of 17

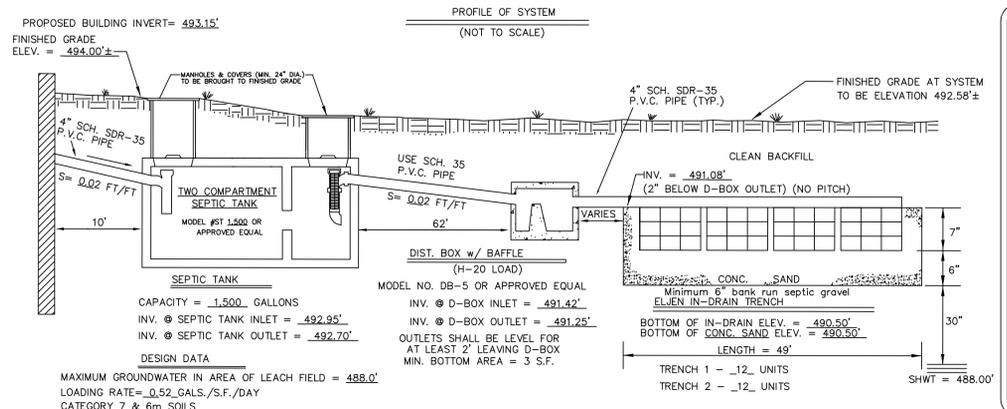
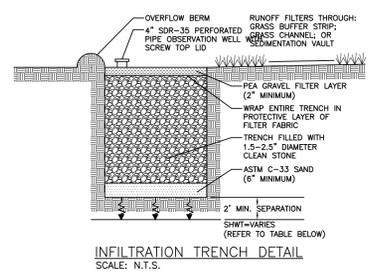
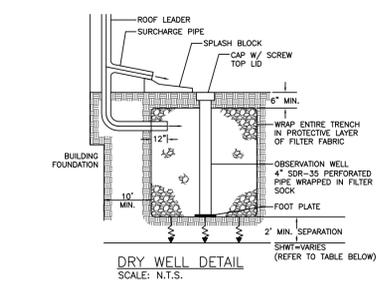


Drainage Calculations
 (Reference: CRMC Guidance Document for Single-Family Development-Revised 2/13/2013)
 Sandy Soils-See test hole forms

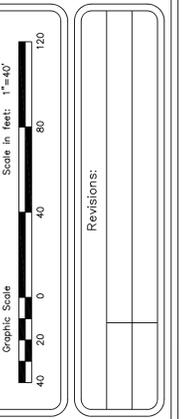
Reference
 Soil Evaluations #0306-2031 9/(2-3)/2021
 SE 1 Watertable: 24"
 SE 2 Watertable: 24"
 Rooftop Runoff (See Table 10 page 14 of Reference)
 Proposed Dwelling Footprint Area= 2400 SF
 Proposing 4 16'x16' (256 SF) dry wells (A, B, C & D) at 6" stone depth
 Each dry well allocates 600 SF of rooftop runoff
 4 dry wells x 600 sf storage = 2400 SF Provided
 Dry Well A Bottom Elevation= 496.50' (Water Table Elev.=488.00')
 Dry Well B Bottom Elevation= 493.50' (Water Table Elev.=488.00')
 Dry Well C Bottom Elevation= 490.50' (Water Table Elev.=488.00')
 Dry Well D Bottom Elevation= 493.50' (Water Table Elev.=488.00')

Driveway Runoff (See Tables 10 & 11 page 14 & 15 of Reference)
 Proposed Impervious Driveway Area= 2181 SF
 Proposing 2' wide x 48" deep Infiltration Trench
 The Infiltration Trench has 137 square feet area
 The infiltration trench area required where 130 SF < proposed area=137SF
 Swale A Bottom Elevation=492' (Water Table Elev.=488.00')
 Pitch Driveway 3% toward swales.

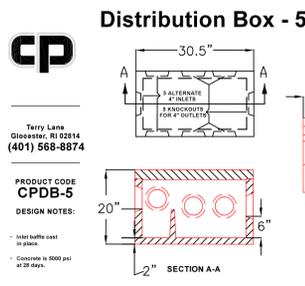
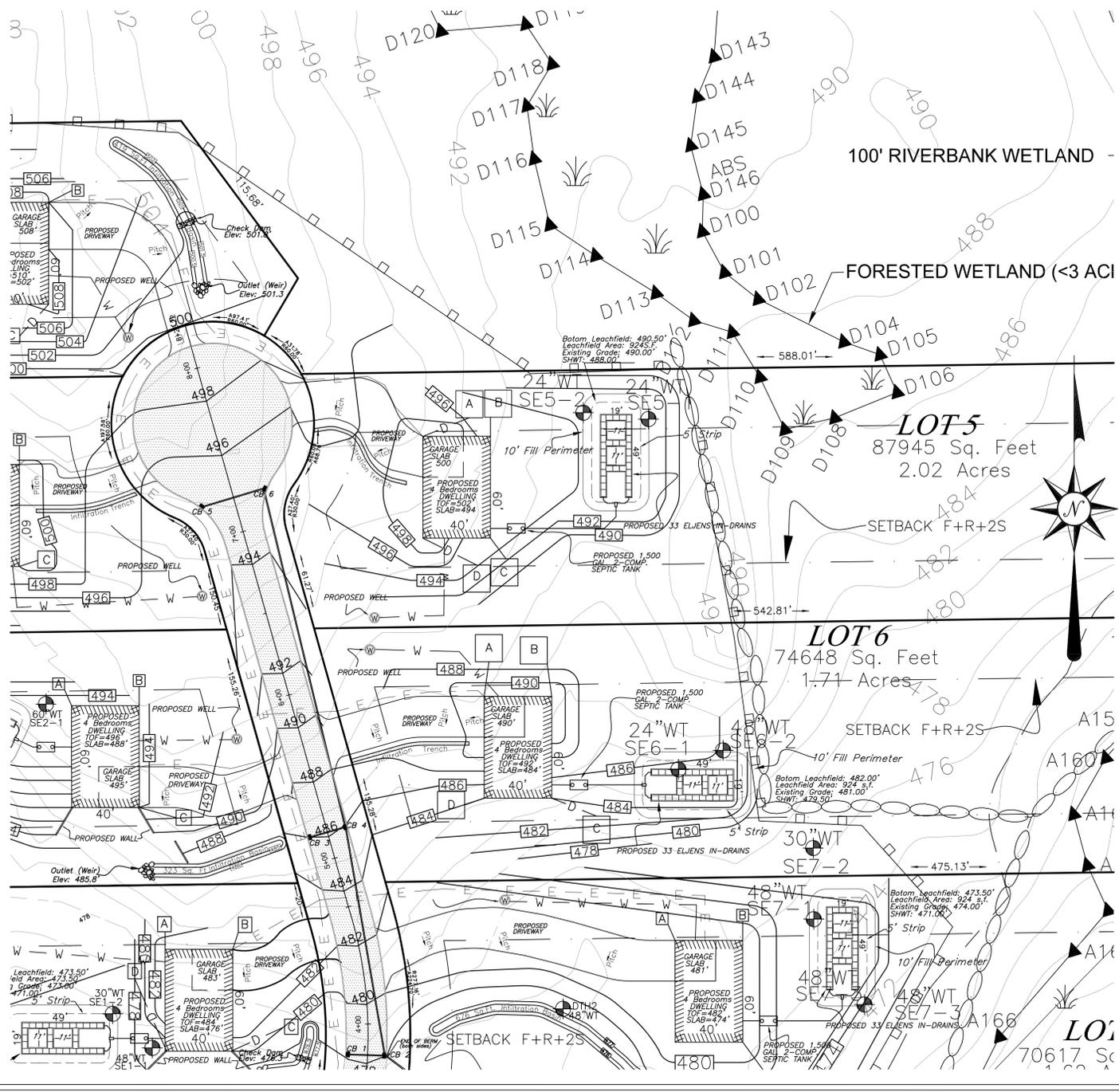
NOTE:
 Excavate and scarifie infiltration areas prior to their installation.



SEPTIC TANK
 CAPACITY = 1,500 GALLONS
 INV. @ SEPTIC TANK INLET = 492.95'
 INV. @ SEPTIC TANK OUTLET = 492.70'
 DESIGN DATA
 MAXIMUM GROUNDWATER IN AREA OF LEACH FIELD = 488.0'
 LOADING RATE = 0.52 GAL./S.F./DAY
 CATEGORY 7 & 6m SOILS
 PROPOSED NUMBER OF BEDROOMS = 4
 REQUIRED LEACHING AREA = 115 GAL./DAY/BDRM = 575 GAL./DAY
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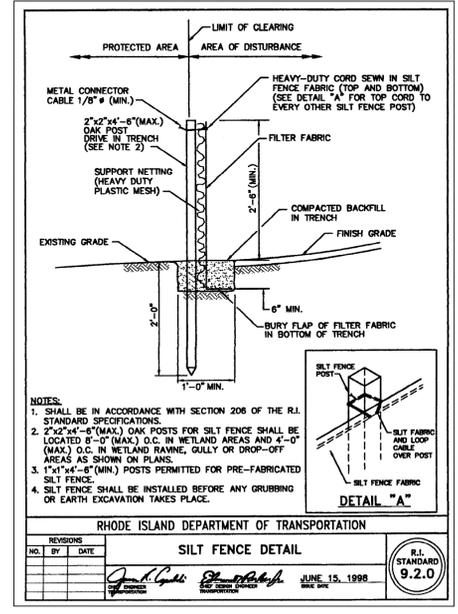
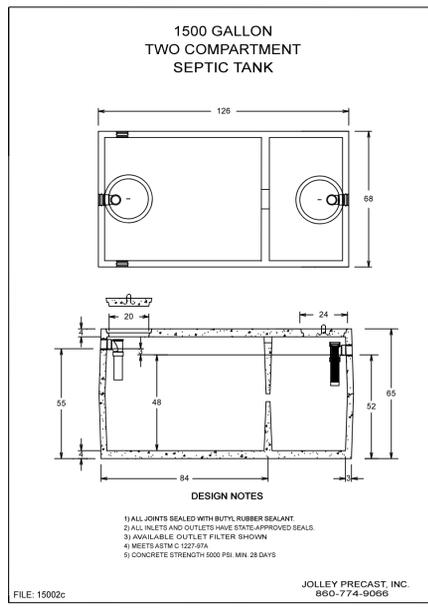


LOCATION PLAN NOT TO SCALE



NOTES
 Do not park on OWTS area. Seed OWTS area with grass.
 Use H-20 Load distribution box. Minimum 3sq ft bottom area.
 Extend septic tank manhole to grade as shown. Grade to divert runoff.
 Remove all vegetation & trees within 10' of proposed OWTS.
 No OWTS existing or proposed within 100' of proposed well.
 No wells existing or proposed within 200' of proposed OWTS, except as noted.
 No public wells existing or proposed within 500' of proposed OWTS.
 No underground drains existing or proposed within 25' of OWTS.
 Use 4" diameter sewer pipe (SDR 35) watertight joints.
 Designer must supervise all phases of installation of OWTS.

- ADDITIONAL NOTES**
- 1) Refer to Application #0306-2031
 - 2) Excavate OWTS Area and 5' around to elevation 487± or to remove subsoil soil & fines. Install bank run septic gravel to Elev. 491.25'
 - 3) Install 6" of concrete sand under and around in drains
 - 4) Installer to contact designer prior to start of construction
 - 5) Installer to provide copies of any state inspection reports & receipts for material and components
 - 6) Wetlands delineated by Applied Bio-Systems Inc.; Field located by CSC.



NOTES:
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BY: Samuel R. Suorsa
 REGISTERED PROFESSIONAL LAND SURVEYOR SIGNATURE
 Samuel R. Suorsa, PLS
 REGISTERED PROFESSIONAL LAND SURVEYOR PRINTED NAME
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 CERTIFICATE OF AUTHORIZATION NO.



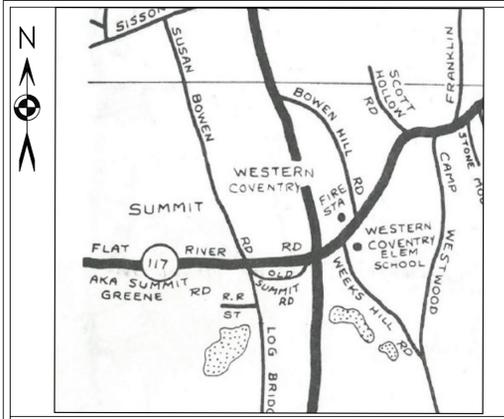
PROJECT ENGINEER:
 Arthur R. Cripps, Jr., PE
 200 Shippee Flat Road
 Coventry, RI 02816



Samuel R. Suorsa
 No. 2508
 PROFESSIONAL LAND SURVEYOR
 46 South Main Street
 Coventry, Rhode Island 02816
 (401) 823-5028
 Land Surveying / Mapping / OWTS Designs

Preliminary Submission
 Lot 5 - Drainage and OWTS Plan
 on Flat River Road
 in the Town of Coventry, Rhode Island
 Assessor's Plat 315/ Lot 80
 Prepared for: Podula Builders Inc.
 1430 Main St. West Warwick RI 02893

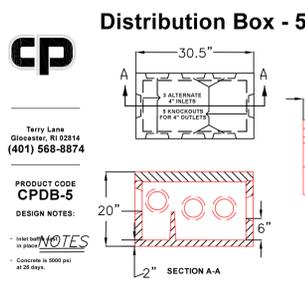
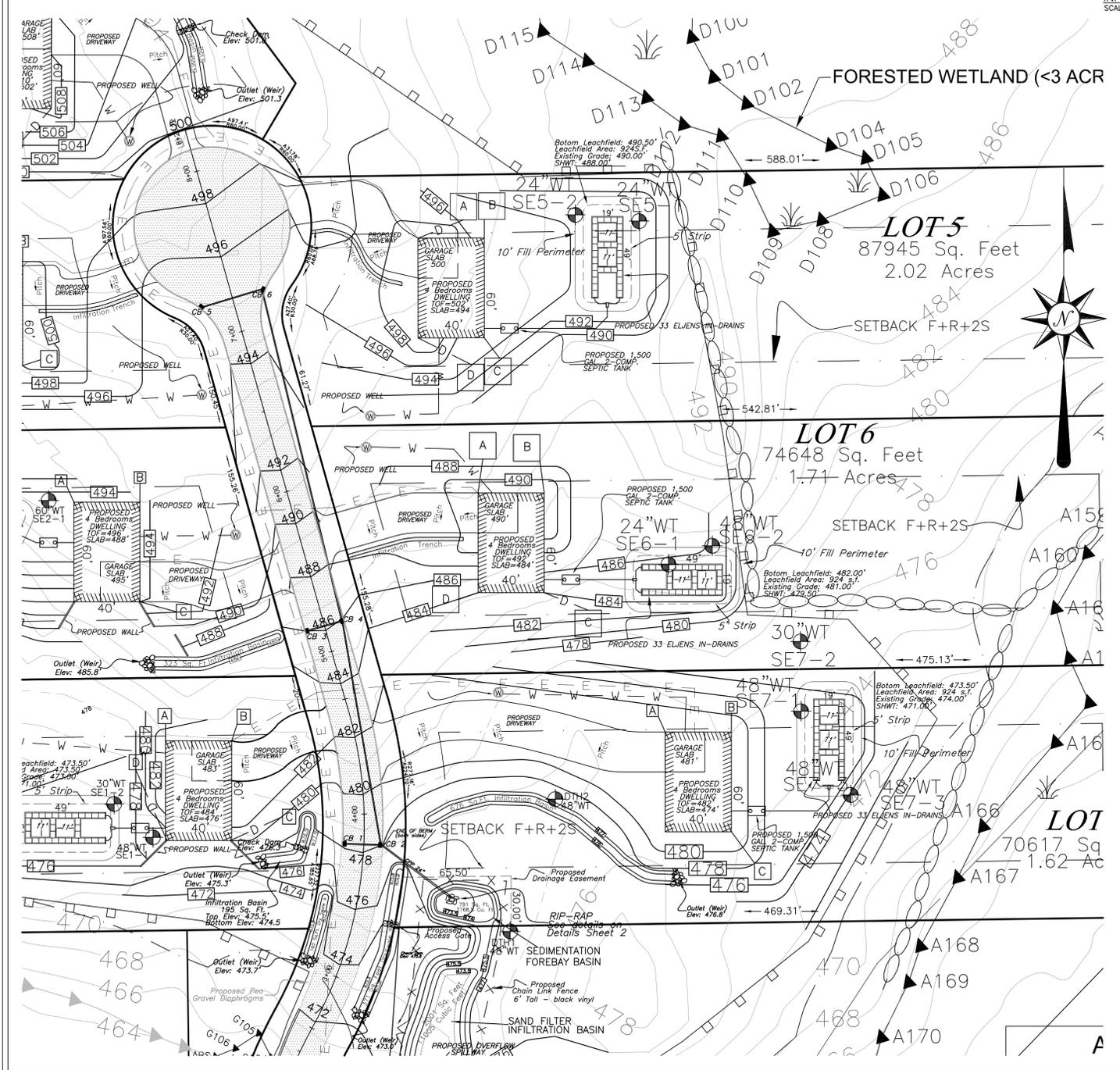
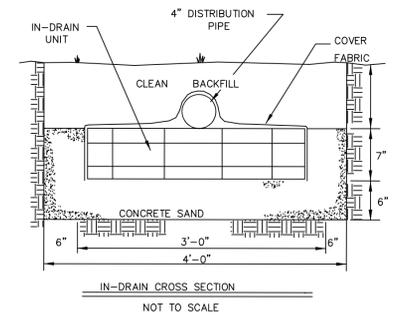
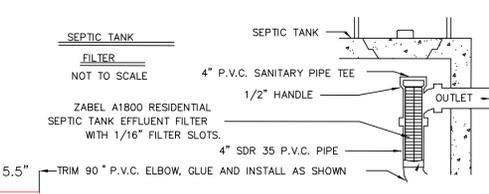
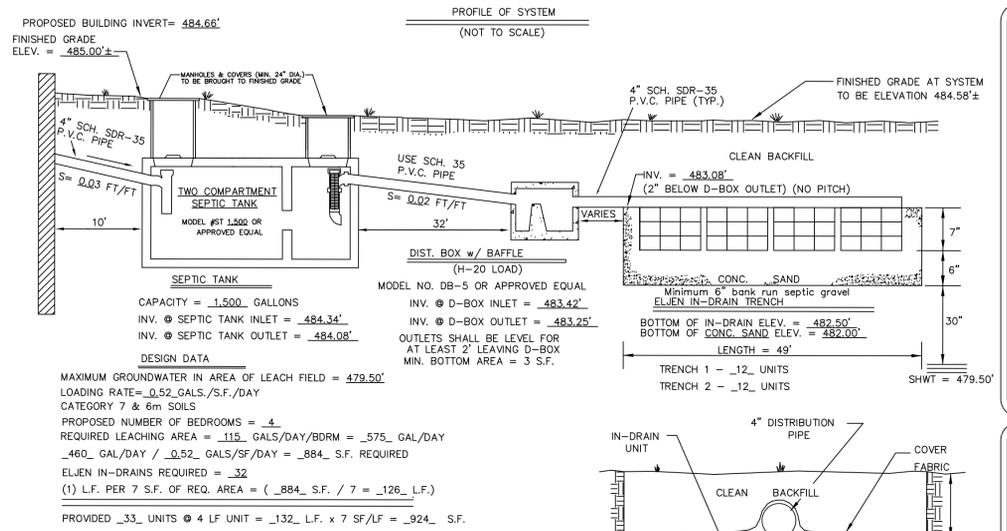
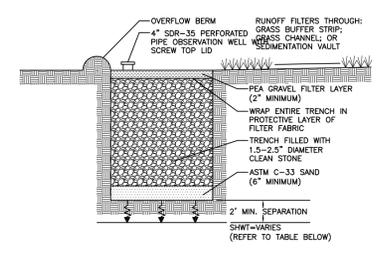
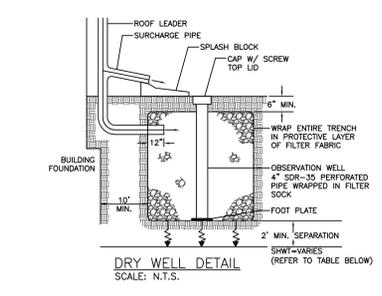
Date:
 Dec. 30, 2023
 Sheet 10 of 17



Drainage Calculations
 (Reference: CRMC Guidance Document for Single-Family Development-Revised 2/13/2013)
 Sandy Soils-See test hole forms

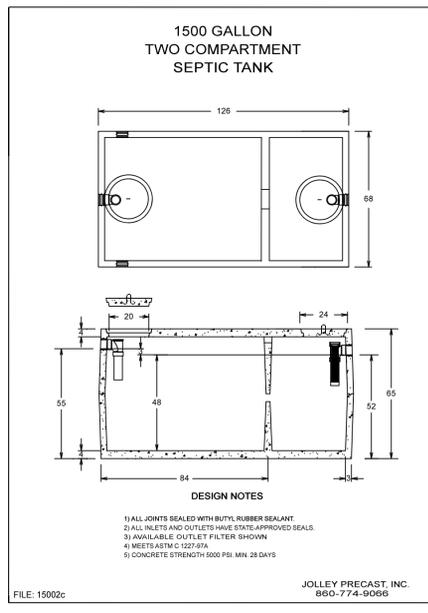
Reference
 Soil Evaluations #0306-2031 9/(2-3)/2021
 SE 1 Watertable: 24"
 SE 2 Watertable: 48"
 Rooftop Runoff (See Table 10 page 14 of Reference)
 Proposed Dwelling Footprint Area= 2400 SF
 Proposing 4 16'x16' (256 SF) dry wells (A, B, C & D) at 6" stone depth
 Each dry well allocates 600 SF of rooftop runoff
 4 dry wells x 600 sf storage = 2400 SF Provided
 Dry Well A Bottom Elevation= 488.50' (Water Table Elev.=479.50')
 Dry Well B Bottom Elevation= 486.50' (Water Table Elev.=479.50')
 Dry Well C Bottom Elevation= 481.50' (Water Table Elev.=479.50')
 Dry Well D Bottom Elevation= 483.50' (Water Table Elev.=479.50')
 Proposed 18" layer of ASTM C-33 sand below the Dry Well C & D
 Driveway Runoff (See Tables 10 & 11 page 14 & 15 of Reference)
 Proposed Impervious Driveway Area= 1987 SF
 Proposing 2' wide x 48" deep Infiltration Trench
 The Infiltration Trench has 141 square feet area
 The infiltration trench area proposed where 141 SF < required area=118 SF
 Swale A Bottom Elevation=484' (Water Table Elev.=479.50')
 Pitch Driveway 3% toward swales.

NOTE:
 Excavate and scarifie infiltration areas prior to their installation.



Do not park on OWTS area. Seed OWTS area with grass.
 Use H-20 Load distribution box. Minimum 3sq ft bottom area.
 Extend septic tank manhole to grade as shown. Grade to divert runoff.
 Remove all vegetation & trees within 10' of proposed OWTS.
 No OWTS existing or proposed within 100' of proposed well.
 No wells existing or proposed within 200' of proposed OWTS, except as noted.
 No public wells existing or proposed within 500' of proposed OWTS.
 No underground drains existing or proposed within 25' of OWTS.
 Use 4" diameter sewer pipe (SDR 35) watertight joints.
 Designer must supervise all phases of installation of OWTS.

- ADDITIONAL NOTES**
- 1) Refer to Application #0306-2031
 - 2) Excavate OWTS Area and 5' around to elevation 478± or to remove subsoil soil & fines. Install bank run septic gravel to Elev. 483.25'.
 - 3) Install 6" of concrete sand under and around in-drains
 - 4) Installer to contact designer prior to start of construction
 - 5) Installer to provide copies of any state inspection reports & receipts for material and components.
 - 6) Wetlands delineated by Applied Bio-Systems Inc.; Field located by CSC.



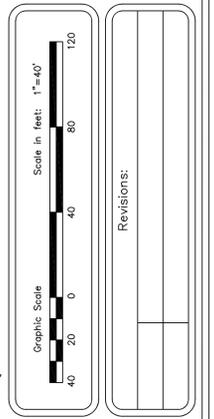
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 Samuel R. Suorsa, PLS
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PROJECT ENGINEER:
 Arthur R. Cripps Jr., PE
 200 Shippee Plot Road
 Coventry, RI 02816



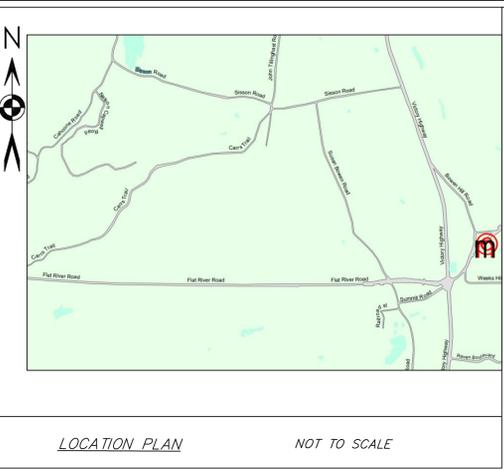
SAMUEL R. SUORSA
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 PROFESSIONAL LAND SURVEYOR

GOVENEY SURVEY CO.
 46 South Main Street
 Coventry, Rhode Island 02816
 (401) 823-5028
 Land Surveying / Mapping / OWTS Designs

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
 SILT FENCE DETAIL
 R.I. STANDARD 9.2.0
 JUNE 15, 1988

Preliminary Submission
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 on Flat River Road
 in the Town of Coventry, Rhode Island
 Assessor's Plat 315/ Lot 80
 Prepared for: Podula Builders Inc.
 1430 Main St. West Warwick RI 02893

Date:
 Dec. 30, 2023
 Sheet 11 of 17



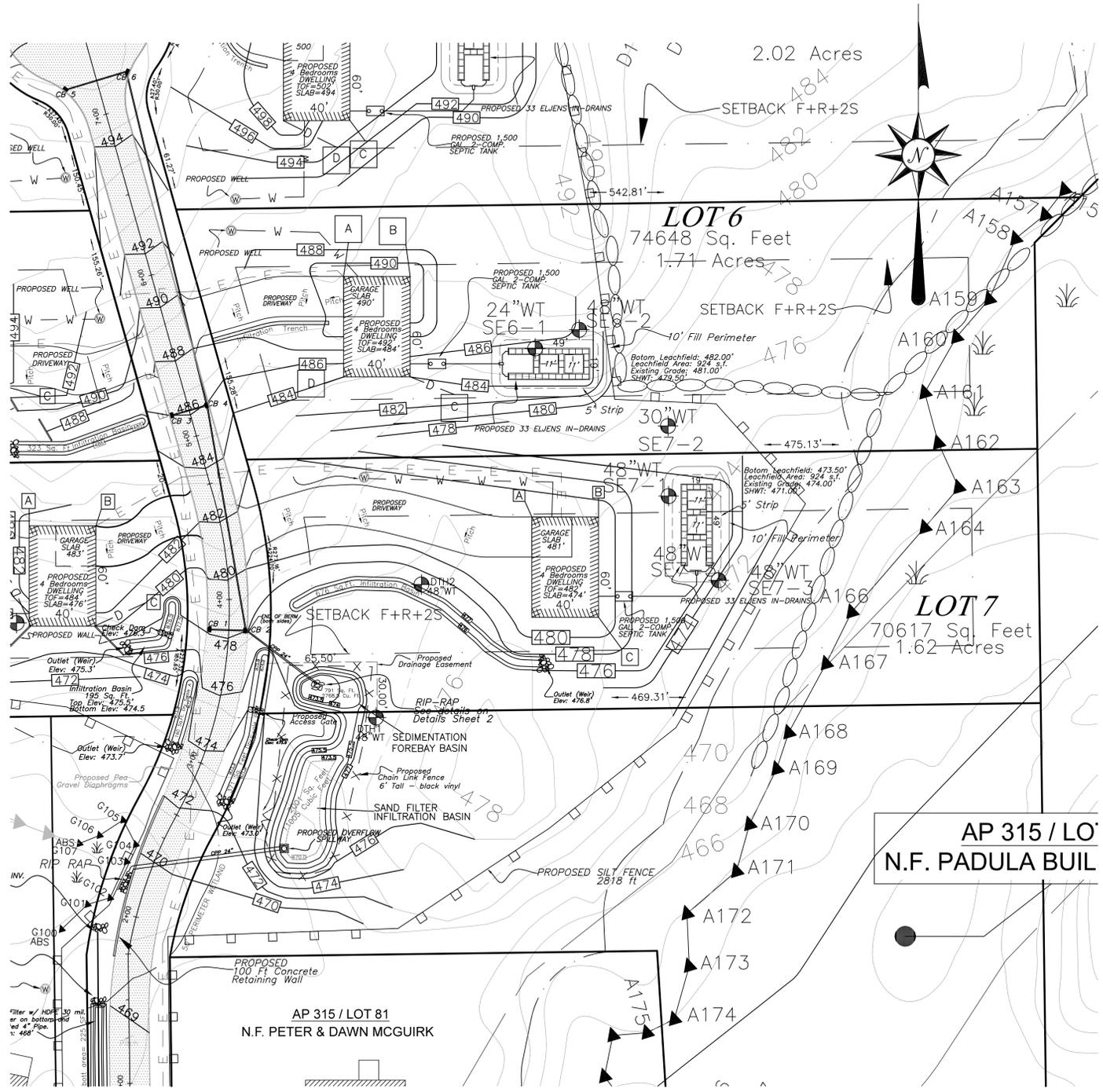
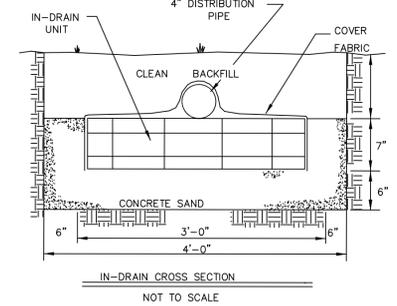
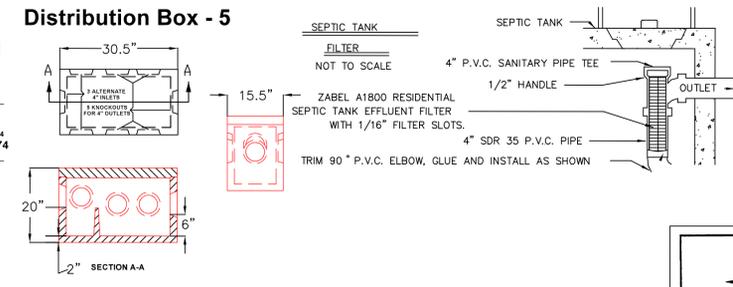
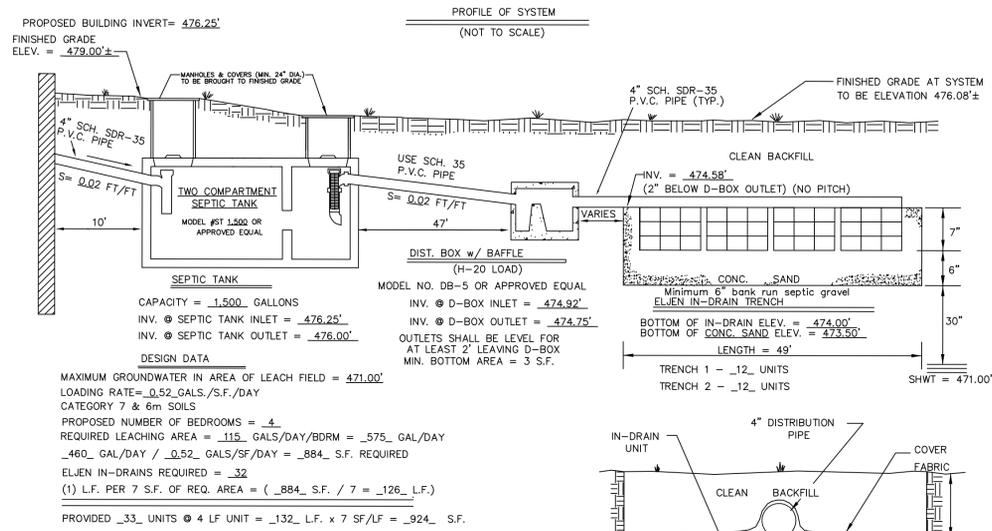
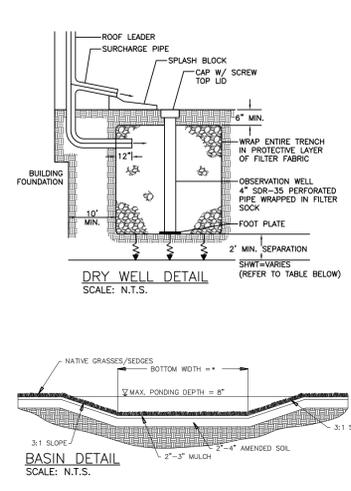
Drainage Calculations
 (Reference: CRMC Guidance Document for Single-Family Development-Revised 2/13/2013)
 Sandy Soils-See test hole forms

Reference
 Soil Evaluations #0306-2031 9/(2-3)/2021
 SE 1 Watertable: 30"
 SE 2 Watertable: 48"

Rooftop Runoff (See Table 10 page 14 of Reference)
 Proposed Dwelling Footprint Area= 2400 SF
 Proposing 2 7'x7' (49 SF) dry wells (A & B) at 36" stone depth
 Each dry well allocates 600 SF of rooftop runoff
 Proposing 1 10'x10' (100 SF) dry well (C) at 36" stone depth
 This dry well allocates 1200 SF of rooftop runoff
 2 dry wells x 600 sf storage = 1200 SF Provided
 1 dry wells x 1200 sf storage = 1200 SF Provided
 Dry Well A Bottom Elevation= 477.00' (Water Table Elev.=471.00)
 Dry Well B Bottom Elevation= 476.00' (Water Table Elev.=471.00)
 Dry Well C Bottom Elevation= 474.00' (Water Table Elev.=471.00)
 Proposed 18" layer of ASTM C-33 sand below the Dry Well C

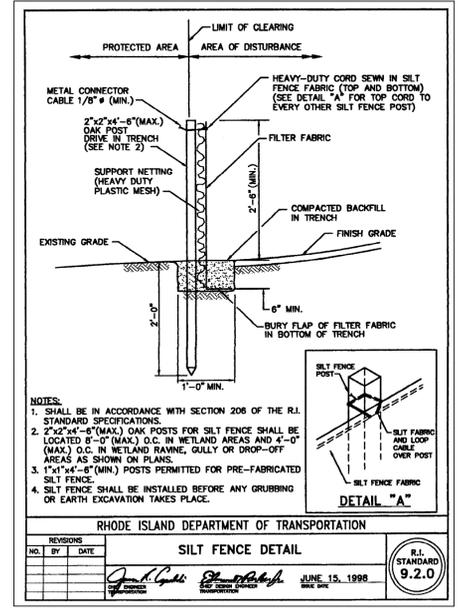
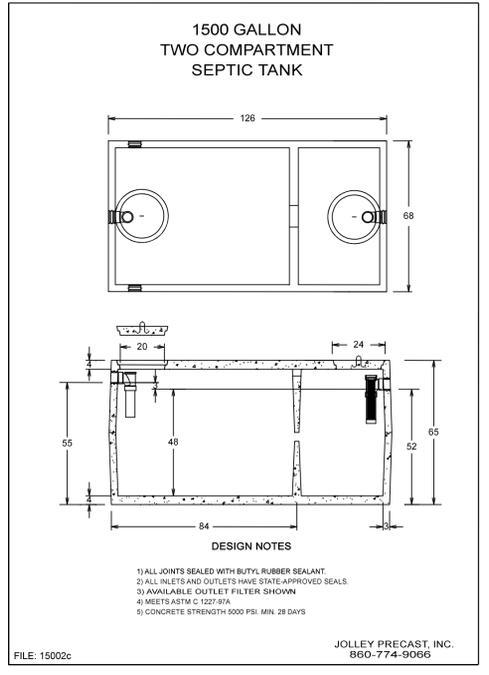
Driveway Runoff (See Table 5 page 8 of Reference)
 Proposed Impervious Driveway Area= 4068 SF
 Proposing 2 - 8' wide (4' bottom width) x 8' deep infiltration basin
 The basin has 676 square feet of bottom area
 Total basin for impervious area Provided=4,200 SF > required impervious area=4,068 SF
 Swale Bottom Elevation=476.00' (Water Table Elev.=470.00)
 Pitch Driveway 3% toward basin.

NOTE:
 Excavate and scarify infiltration areas prior to their installation.



NOTES
 Do not park on OWTS area. Seed OWTS area with grass.
 Use H-20 Load distribution box. Minimum 3sq ft bottom area.
 Extend septic tank manhole to grade as shown. Grade to divert runoff.
 Remove all vegetation & trees within 10' of proposed OWTS.
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 No public wells existing or proposed within 500' of proposed OWTS.
 No underground drains existing or proposed within 25' of OWTS.
 Use 4" diameter sewer pipe (SDR 35) watertight joints.
 Designer must supervise all phases of installation of OWTS.

ADDITIONAL NOTES
 1) Refer to Application #0306-2031
 2) Excavate OWTS Area and 5' around to elevation 472.50± or to remove subsoil soil & fines. Install bank run septic gravel to Elev. 474.75'.
 3) Install 6" of concrete sand under and around in-drains
 4) Installer to contact designer prior to start of construction
 5) Installer to provide copies of any state inspection reports & receipts for material and components.
 6) Wetlands delineated by Applied Bio-Systems Inc.; Field located by CSC.



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 Location of Site Features and Topography

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 REGISTERED PROFESSIONAL LAND SURVEYOR SIGNATURE

Samuel R. Suorsa, PLS
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A-68
 CERTIFICATE OF AUTHORIZATION NO.

Scale in feet: 1"=40'

Revisions:

SAMUEL R. SUORSA
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 Coventry, Rhode Island 02816
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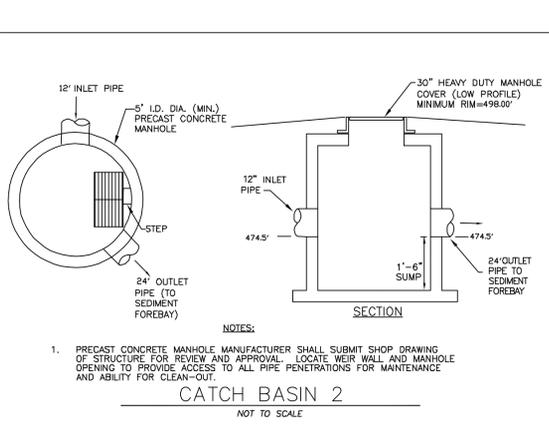
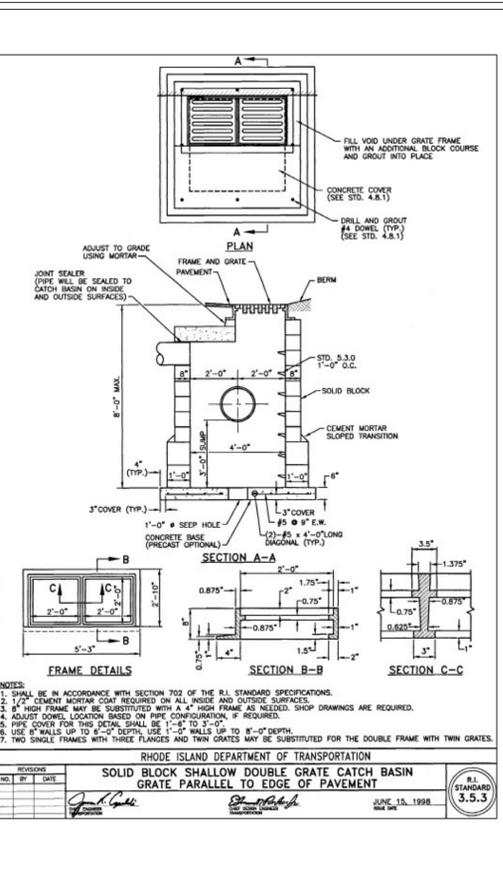
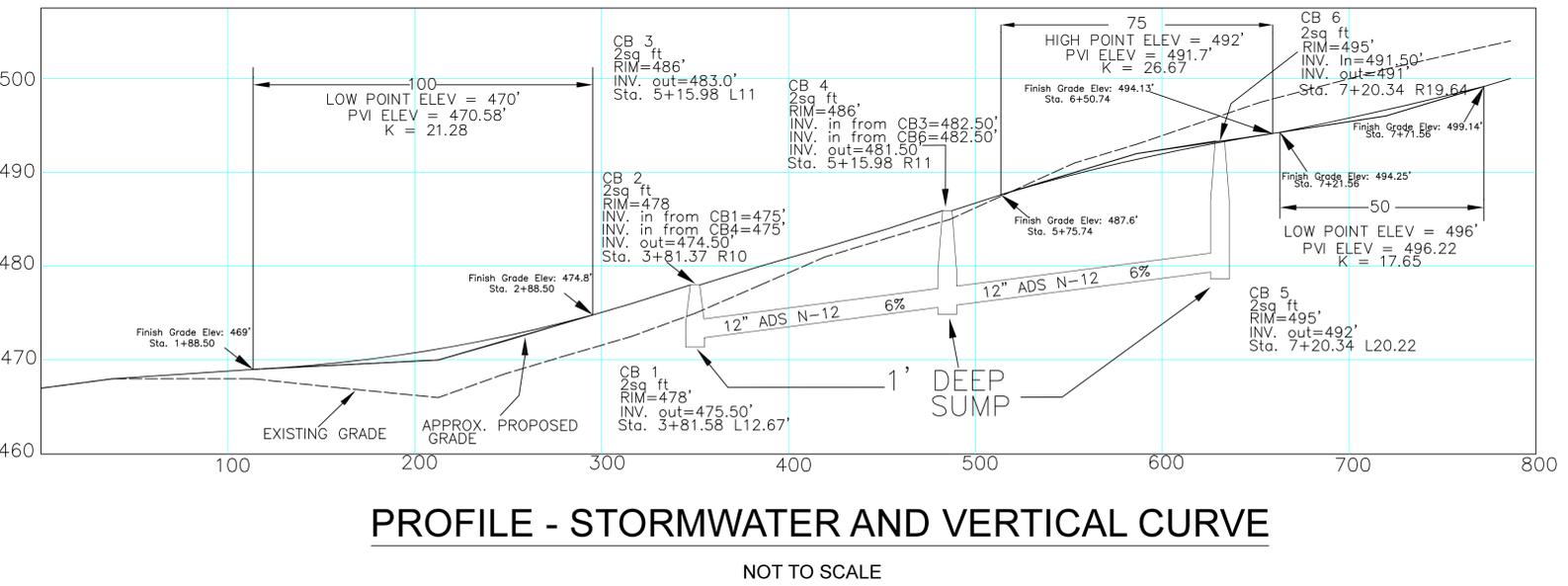
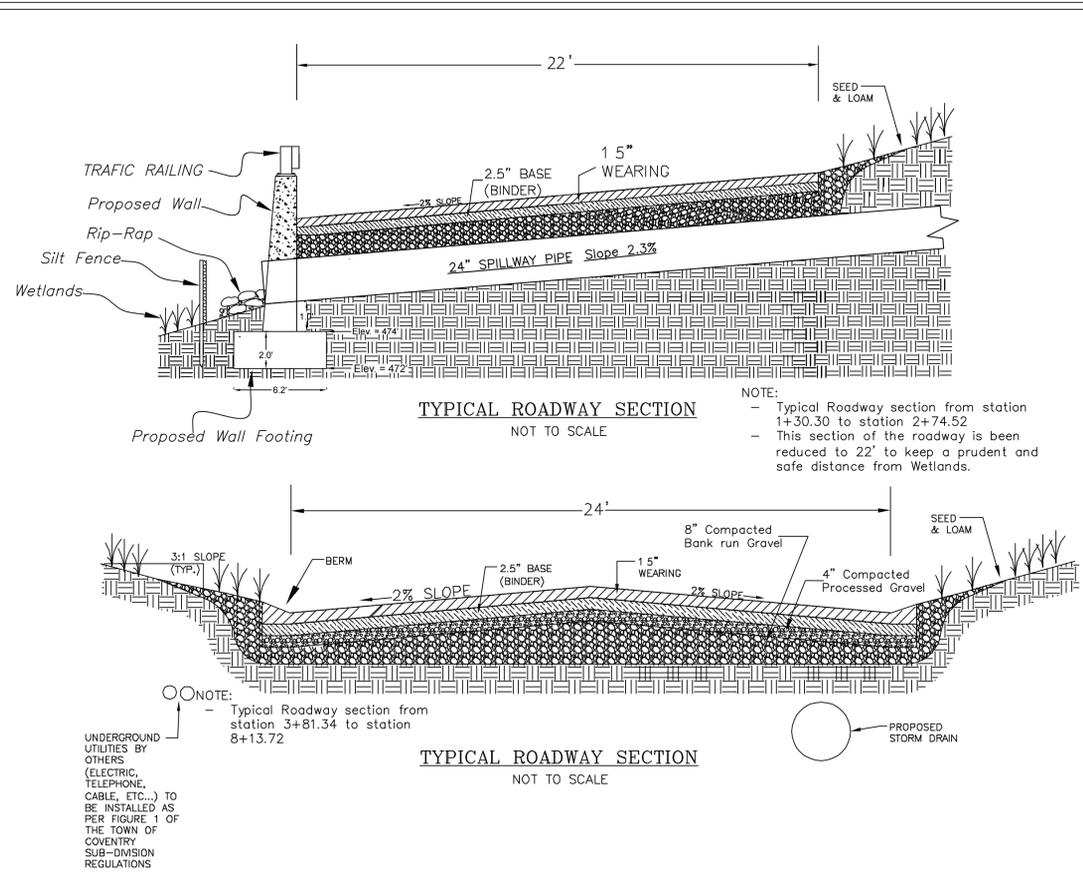
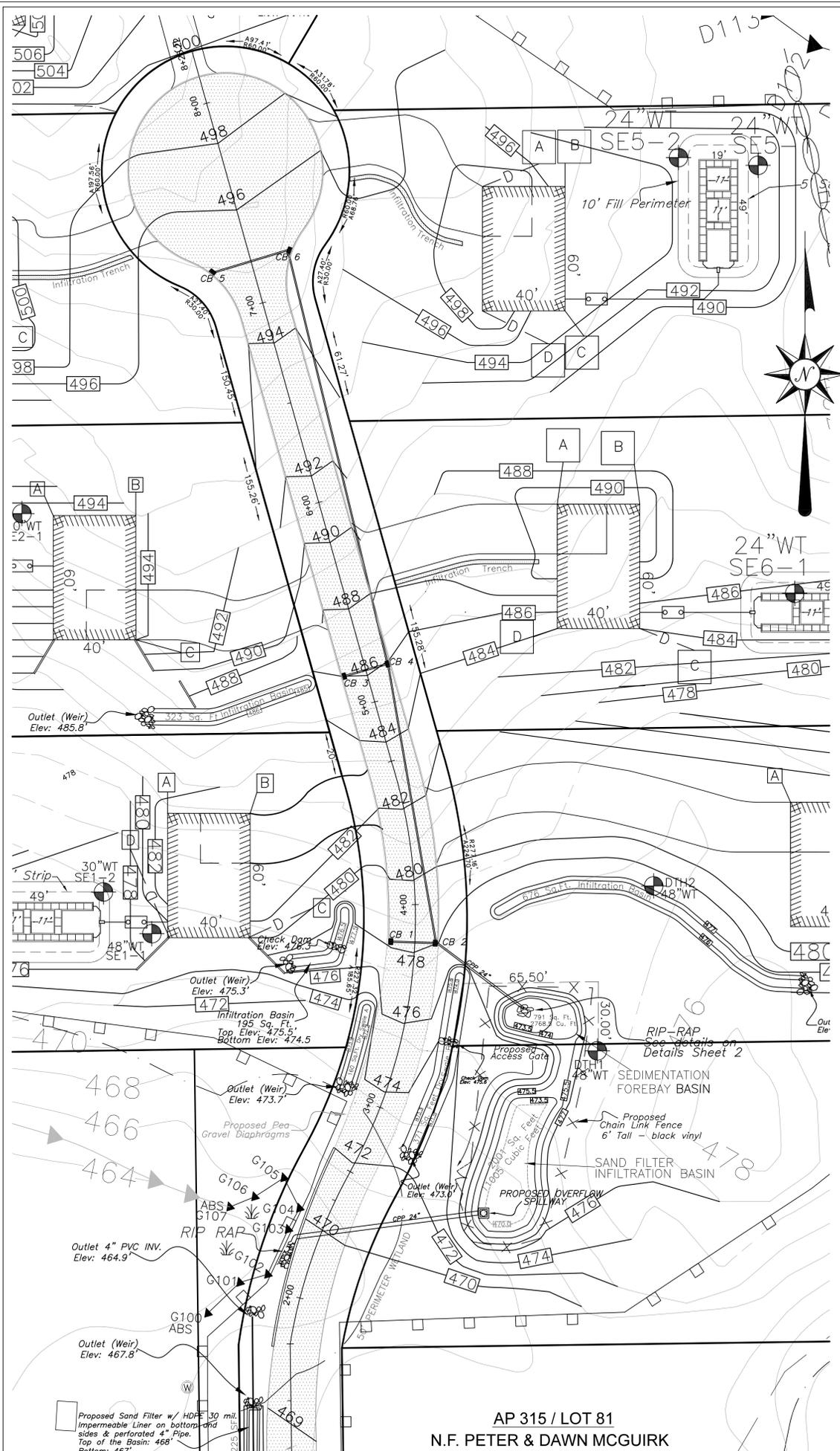
Preliminary Submission
 Lot 7 - Drainage and OWTS Plan
 on Flat River Road
 in the Town of Coventry, Rhode Island
 Assessor's Plat 315/ Lot 80
 Prepared for: Padula Builders Inc.
 1430 Main St. West Warwick RI 02893

Date:
 Dec. 30, 2023

Sheet 12 of 17

ARTHUR R. CRIPPS, JR.
 No. 5651
 REGISTERED PROFESSIONAL ENGINEER

PROJECT ENGINEER:
 Arthur R. Cripps Jr., PE
 200 Shippee Plat Road
 Coventry, RI 02816



DRAINAGE SYSTEM-INSPECTION, MAINTENANCE & REPAIR:

- THE OWNER SHALL MAINTAIN THE PROPOSED DRAINAGE SYSTEM COMPONENTS WHICH INCLUDE THE MANHOLES, PIPING, GRASS SWALE, SEDIMENT FOREBAY, AND SAND FILTER. A LEGALLY BINDING AND ENFORCEABLE MAINTENANCE AGREEMENT SHALL BE EXECUTED BETWEEN THE OWNER AND A MAINTENANCE COMPANY TRAINED AND EXPERIENCED WITH THE MAINTENANCE REQUIREMENTS DETAILED IN THE 'RHODE ISLAND STORMWATER DESIGN AND INSTALLATION STANDARDS MANUAL', LATEST EDITION KNOWN AS THE 'MANUAL'.
- INSPECTIONS ARE ESSENTIAL FOR THE LONGEVITY OF THE DRAINAGE SYSTEMS. THE DRAINAGE SYSTEM SHOULD BE INSPECTED IN ACCORDANCE WITH THE 'MANUAL' BY THE MAINTENANCE COMPANY. RECORDS OF INSPECTIONS SHALL BE MAINTAINED BY THE OWNER AND MAINTENANCE COMPANY. IN NO CASE SHALL LESS THAN TWO INSPECTIONS OCCUR EACH CALENDAR YEAR, TYPICALLY SPRING AND FALL. THE ENTIRE SYSTEM SHALL ALSO BE INSPECTED AFTER STORM EVENTS GREATER THAN OR EQUAL TO THE 1-YEAR, 24-HOUR TYPE III PRECIPITATION EVENT (2.7 INCHES OF RAIN).
- INSPECTIONS SHALL BE IN ACCORDANCE WITH THE 'MANUAL'. A SUMMARY OF THE REQUIREMENTS ARE DESCRIBED BELOW THE MAJORITY OF WHICH IS TAKEN DIRECTLY FROM THE 'MANUAL'. THE INSPECTOR SHALL REFER TO THE 'MANUAL' FOR ADDITIONAL INSIGHT ON INSPECTION METHODS AND REQUIREMENTS. ALL CHECKLISTS IN THE MANUAL SHALL BE FILLED OUT BY THE INSPECTOR. ALL DEFICIENCIES DISCOVERED SHALL BE BROUGHT TO THE OWNER'S ATTENTION IN WRITING.

DRAIN MANHOLES:

- REMOVE TRASH AND LITTER.
- REPAIR ALL STRUCTURAL DEFECTS IMMEDIATELY.
- REMOVE ALL ACCUMULATED SEDIMENT AND DISPOSED OFF-SITE IN ACCORDANCE WITH STATE & FEDERAL REGULATIONS.
- CATCH BASINS SHALL BE INSPECTED ON A QUARTERLY BASIS IN ADDITION TO INSPECTIONS AFTER STORM EVENTS GREATER THAN OR EQUAL TO THE 1-YEAR, 24-HOUR TYPE III PRECIPITATION EVENT (2.7 INCHES OF RAIN).

PIPES & OUTLETS:

- ALL CLOGGED OR SEDIMENT FILLED PIPES WHICH ARE MORE THAN 10% SEDIMENT FILLED SHALL BE CLEANED OUT IMMEDIATELY. WHEN CLEANING OUT PIPES, ENSURE DOWNSTREAM AREAS ARE PROTECTED FROM SEDIMENT DISCHARGES.
- DISPOSE OFF-SITE IN ACCORDANCE WITH STATE & FEDERAL REGULATIONS.
- REMOVE TRASH AND LITTER.
- INSPECT OUTLET RIP-RAP AREAS. REPAIR ALL ERODED AREAS BY SUPPLEMENTING WITH MORE RIP-RAP AND ESTABLISHING NEW VEGETATIVE GROWTH.

ARTHUR R. CRIPPS, JR.
No. 5681
REGISTERED PROFESSIONAL ENGINEER

PROJECT ENGINEER:
Arthur R. Cripps Jr., PE
200 Shippee Plat Road
Coventry, RI 02816

COVENTRY SURVEY CO.
46 South Main Street
Coventry, Rhode Island 02816
(401) 823-5028
Land Surveying / Mapping / O&MS Designs

SAMUEL R. SUORSA
No. 2508
PROFESSIONAL LAND SURVEYOR

Revisions:

Scale in feet: 1"=30'

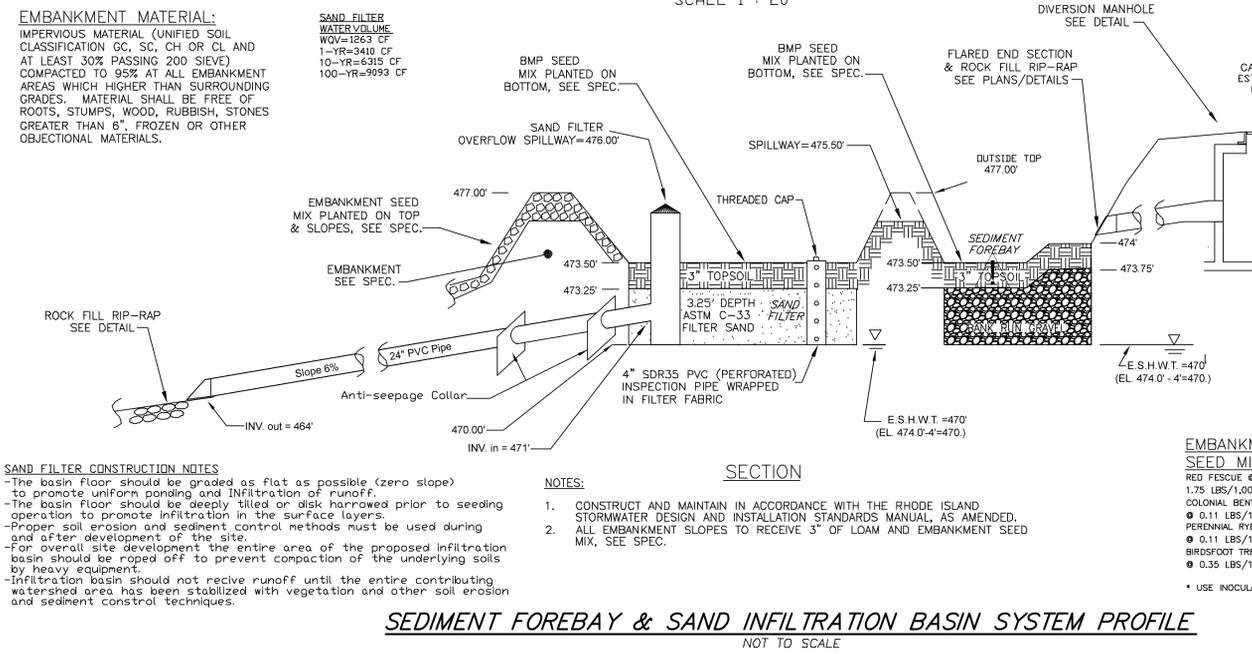
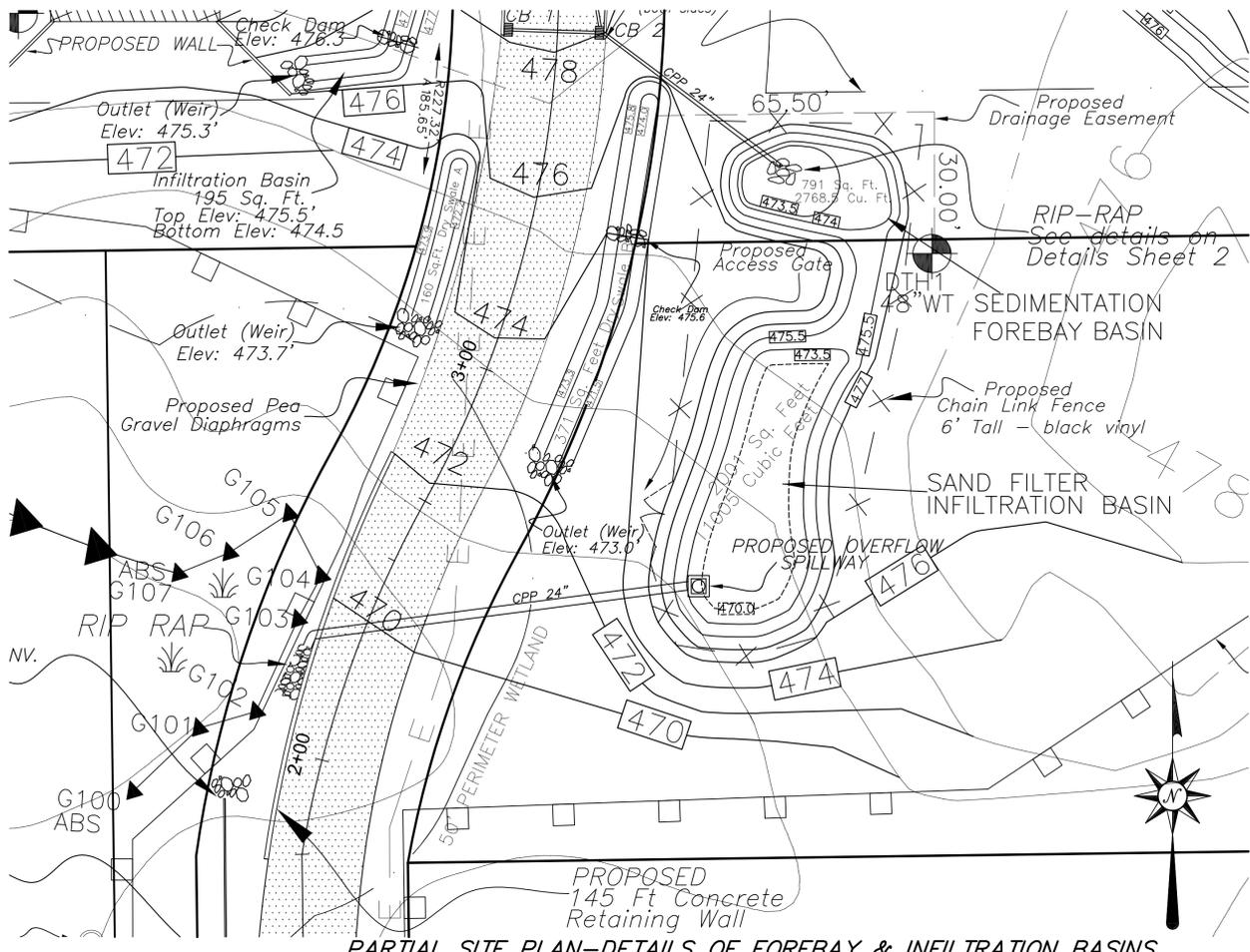
GRAPHIC SCALE

PRELIMINARY-SUBMISSION

Drainage Sheet 1 - 3+81 - 8+13
on Flat River Road
in the Town of Coventry, Rhode Island
Assessor's Plat 315/ Lot 80
Prepared for: Paolina Builders Inc.
1430 Main St. West Warwick RI 02893

Date: Dec. 30, 2023

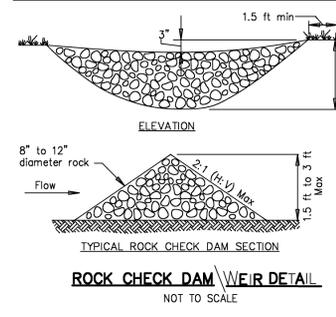
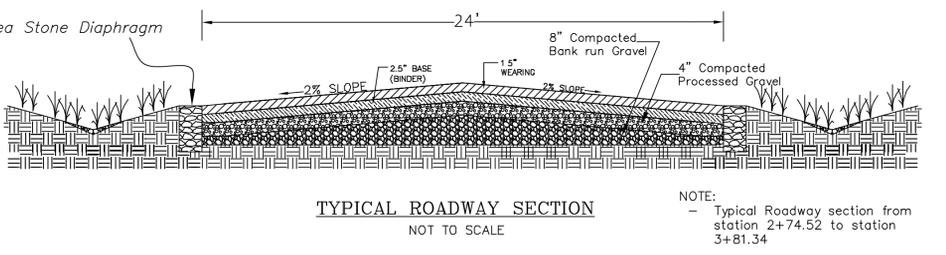
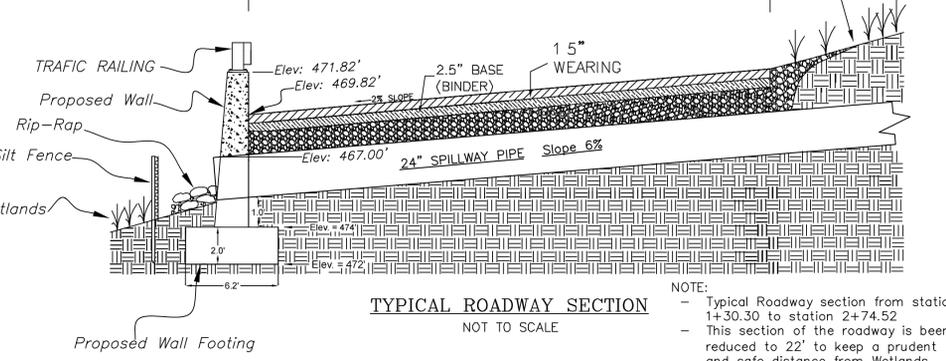
Sheet 13 of 17



SAND FILTER & SEDIMENT FOREBAY:
 THE SEDIMENT FOREBAY SHALL BE INSPECTED QUARTERLY AND AFTER STORM EVENTS GREATER THAN OR EQUAL TO THE 1-YEAR, 24 HOUR TYPE III PRECIPITATION EVENT.
 THE SAND FILTER SHALL BE INSPECTED ANNUALLY AND AFTER STORM EVENTS GREATER THAN OR EQUAL TO THE 1-YEAR, 24 HOUR TYPE III PRECIPITATION EVENT.
 MATERIALS DEPOSITED ON THE SURFACE (E.G., TRASH AND LITTER) SHOULD BE REMOVED MANUALLY.
 IF STANDING WATER IS OBSERVED IN THE SAND FILTER/SEDIMENT FOREBAY FOR MORE THAN 48 HOURS AFTER A STORM EVENT, THEN THE TOP 6 INCHES OF MATERIAL SHALL BE REMOVED AND REPLACED WITH NEW MATERIAL IF DISCOLORED OR CONTAMINATED MATERIAL IS FOUND BELOW THIS REMOVED SURFACE THEN THAT MATERIAL SHALL ALSO BE REMOVED AND REPLACED UNTIL ALL CONTAMINATED SAND HAS BEEN REMOVED FROM THE FILTER. THE SAND SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE FEDERAL AND LOCAL REGULATIONS. THE FILTER SAND WILL NEED REPLACEMENT WHEN INFILTRATION RATES DEMINISH (THIS SHALL BE EVALUATED ANNUALLY BY THE INSPECTOR).
 THE BERM AROUND THE SAND FILTER SHALL BE INSPECTED FOR EROSION AND GULLING. REINFORCE EXISTING RIPRAP IF RIPRAP IS FOUND TO BE DEFICIENT, EROSION IS PRESENT AT THE OUTFALLS OF ANY CONTROL STRUCTURE, OR THE EXISTING RIPRAP HAS BEEN COMPROMISED. ALL STRUCTURAL COMPONENTS, WHICH INCLUDE, BUT ARE NOT LIMITED TO, TRASH RACKS, ACCESS GATES, VALVES, PIPES, WEIR WALLS, GRIFFICE STRUCTURES, AND SPILLWAY STRUCTURES, SHALL BE INSPECTED AND ANY DEFICIENCIES SHALL BE REPORTED. THIS INCLUDES A VISUAL INSPECTION OF ALL STORMWATER CONTROL STRUCTURES FOR DAMAGE AND/OR ACCUMULATION OF SEDIMENT. ACCUMULATED SEDIMENT SHALL BE REMOVED FROM THE BASIN WHEN THE DEPTH OF SEDIMENT IS GREATER THAN 2 INCHES.

DRAINAGE SYSTEM-INSPECTION, MAINTENANCE & REPAIR:

GRASS SWALE:
 THE MAINTENANCE OBJECTIVE FOR THIS PRACTICE INCLUDES PRESERVING THE HYDRAULIC AND REMOVAL EFFICIENCY OF THE CHANNEL AND MAINTAINING A DENSE, HEALTHY VEGETATIVE COVER. THE FOLLOWING ACTIVITIES ARE RECOMMENDED ON AN ANNUAL BASIS OR AS NEEDED:
 • MOWING AND LITTER AND DEBRIS REMOVAL
 • STABILIZATION OF ERODED SIDE SLOPES AND BOTTOM,
 • NUTRIENT AND PESTICIDE USE MANAGEMENT;
 • DE-THATCHING SWALE BOTTOM AND REMOVAL OF THATCHING; AND
 • DISING OR AERATION OF SWALE BOTTOM.
 EVERY FIVE YEARS, SCRAPING OF THE CHANNEL BOTTOM AND REMOVAL OF SEDIMENT TO RESTORE ORIGINAL CROSS SECTION AND INFILTRATION RATE, AND SEEDING TO RESTORE GRASS COVER IS RECOMMENDED.
 THE GRASS SWALE SHALL BE INSPECTED ON AN ANNUAL BASIS AND AFTER STORMS OF GREATER THAN OR EQUAL TO THE 1-YEAR, 24-HOUR TYPE III PRECIPITATION EVENT (2.7 INCHES OF RAIN). WHEN SEDIMENT ACCUMULATES TO A DEPTH OF APPROXIMATELY 3 INCHES, IT SHALL BE REMOVED, AND THE SWALE SHALL BE RECONFIGURED TO ITS ORIGINAL DIMENSIONS. THE VEGETATION IN THE GRASS SWALE SHALL BE MAINTAINED AS REQUIRED TO MAINTAIN HEIGHTS IN THE 4-6 INCH RANGE, WITH MANDATORY MOWING ONCE HEIGHTS EXCEED 10 INCHES. IF THE SURFACE OF THE GRASS SWALE BECOMES CLOTTED TO THE POINT THAT STANDING WATER IS OBSERVED ON THE SURFACE 48 HOURS AFTER PRECIPITATION EVENTS, THE BOTTOM SHALL BE ROTO-TILLED OR CULTIVATED TO BREAK UP ANY HANDPACKED SEDIMENT, AND THEN RESEEDED. TRASH AND DEBRIS SHALL BE REMOVED AND PROPERLY DISPOSED OF.



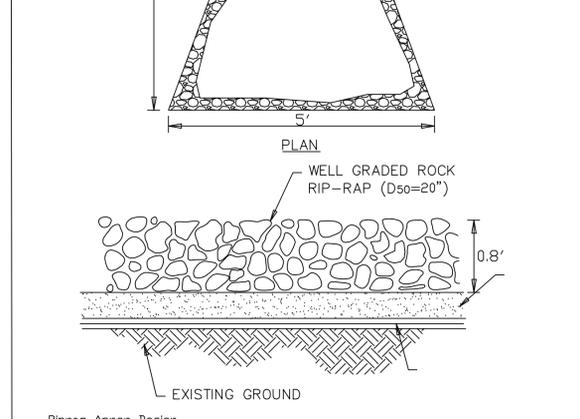
BANK RUN GRAVEL SPEC.:
 GRAVEL SHALL NOT CONTAIN ANY MATERIAL LARGER THAN 3" UP TO 10% MAY BE SIZED BETWEEN 3/4" AND 3". GRAVEL SHALL MEET THE FOLLOWING:

SIEVE SIZE	% PASSING
3/4"	100%
#4	55%-100%
#10	40%-100%
#40	10%-50%
#100	0%-20%
#200	0%-2%

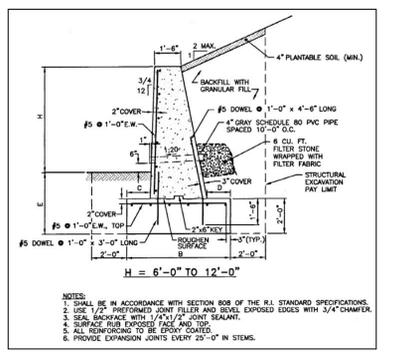
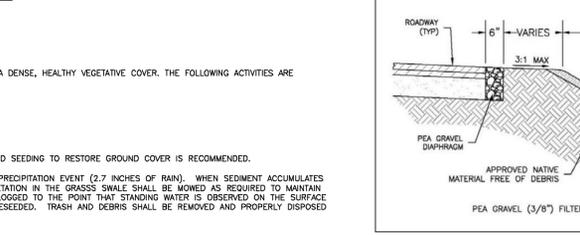
ASTM C-33 SAND SPEC.:
 ASTM C-33 SAND SHALL MEET ASTM C-33 REQUIREMENTS AND ALSO THE FOLLOWING:
 SIZE=0.02" TO 0.04"
 % PASS 200 SIEVE < 1.0%

WELL GRADED ROCK RIP-RAP (D₅₀=20")

Riprap Apron Design
 $D_{50} = 0.2D \left(\frac{Q}{gT^3} \right)^{1/3} = 0.2(2) \left(\frac{0.11}{32.2(2)^3} \right)^{1/3} = 0.19$ in
 D₅₀ Required riprap rock size in ft.
 Q = Discharge in CFS (0.11 cfs)
 D = Pipe rise (diameter) in ft (2.0ft)
 T = tailwater depth in ft (0.4) = 0.4(2) = 0.8
 g = acceleration due to gravity (32.2 ft/sec)

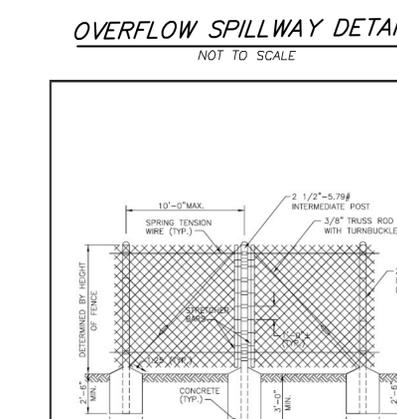
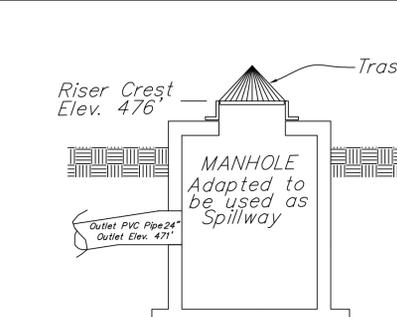


CLASS	D50 (in)	Apron Length	Apron Depth
1	5	40	3.500
2	6	40	3.300
3	10	50	2.400
4	14	60	2.200
5	20	70	2.000
6	22	80	2.000



DIMENSIONS AND QUANTITIES

H	A	B	C	D	E	C.F./L.F. OF WALL
2'-0"	3'-3"	-	-	-	2'-6"	10.69
3'-0"	3'-8"	-	-	-	2'-6"	14.21
4'-0"	4'-1"	-	-	-	2'-6"	18.14
5'-0"	4'-6"	-	-	-	2'-6"	22.50
6'-0"	5'-4"	1'-0"	1'-4"	3'-6"	-	27.54
7'-0"	6'-2"	1'-4"	1'-4"	3'-6"	-	33.59
8'-0"	6'-5"	1'-4"	1'-6"	3'-6"	-	36.98
9'-0"	7'-4"	1'-9"	1'-9"	3'-6"	-	42.66
10'-0"	7'-10"	1'-9"	2'-0"	3'-6"	-	47.76
11'-0"	8'-5"	1'-10"	2'-3"	3'-6"	-	53.30
12'-0"	9'-0"	1'-10"	2'-6"	3'-6"	-	59.63

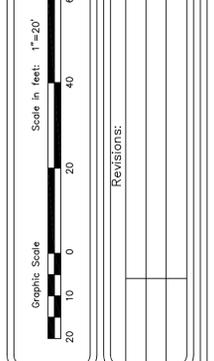


REVISIONS

NO.	BY	DATE	DESCRIPTION
1	HP	3/7/2005	

APPROVED: *Arthur R. Cripps, Jr.*
 REGISTERED PROFESSIONAL ENGINEER
 No. 5651
 STATE OF RHODE ISLAND

PROJECT ENGINEER:
 Arthur R. Cripps Jr., PE
 200 Shippes Flat Road
 Coventry, RI 02816



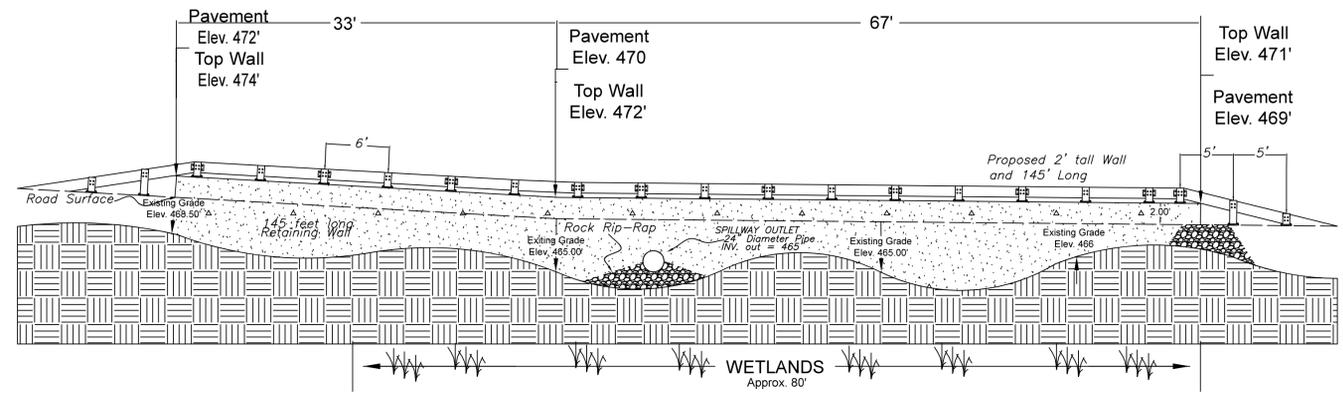
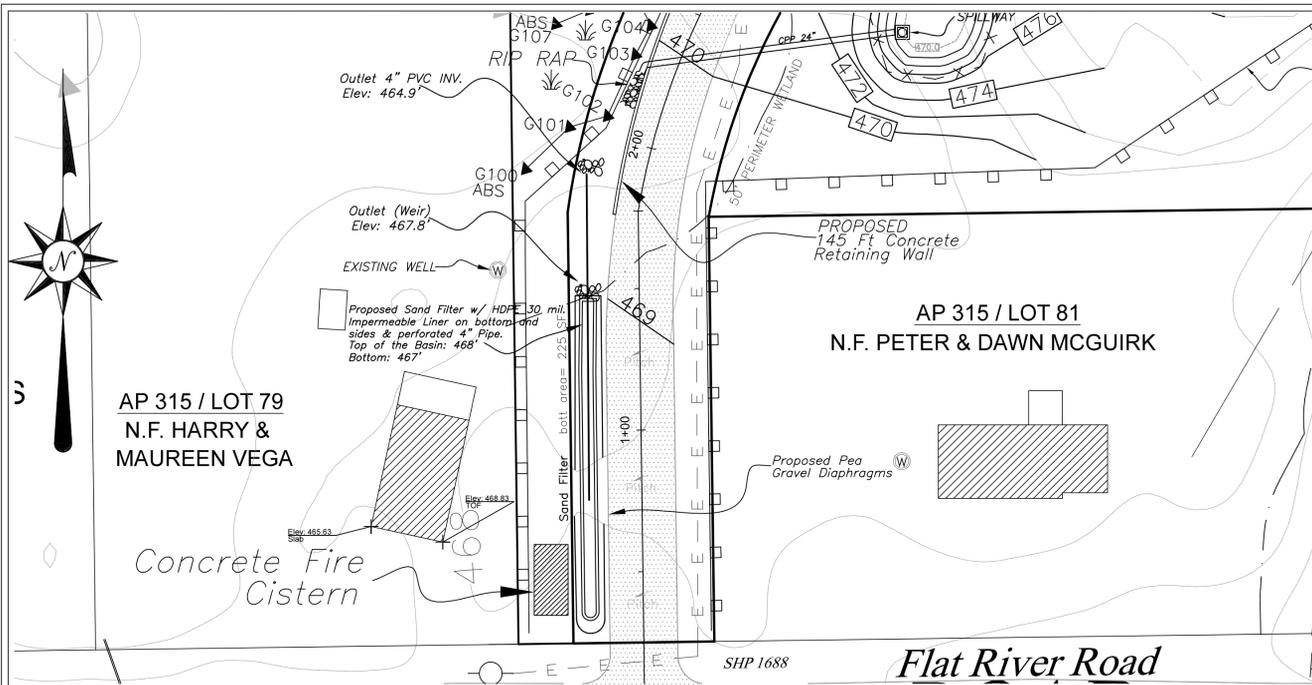
SAMUEL R. SUORSA
 No. 2508
 PROFESSIONAL LAND SURVEYOR

COVENTRY SURVEY CO.
 46 South Main Street
 Coventry, Rhode Island 02816
 (401) 823-5028
 Land Surveying / Mapping / OMTS Designs

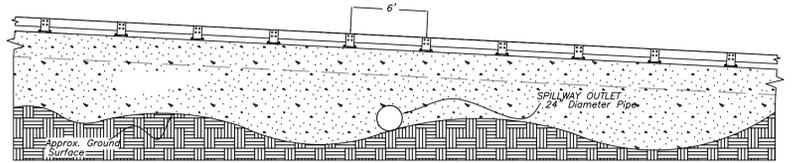
Preliminary Submission
 Drainage Sheet 2 - 1+30 - 3+81
 on Flat River Road
 in the Town of Coventry, Rhode Island
 Assessor's Plat 315/Lot 80
 Prepared for: Padula Builders Inc.
 1430 Main St. West Warwick RI 02893

Date:
 Dec. 30, 2023

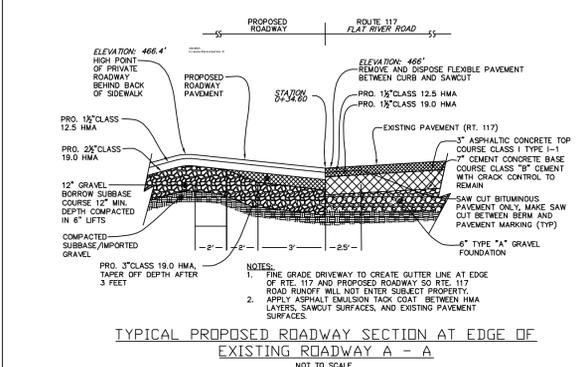
Sheet 14 of 17



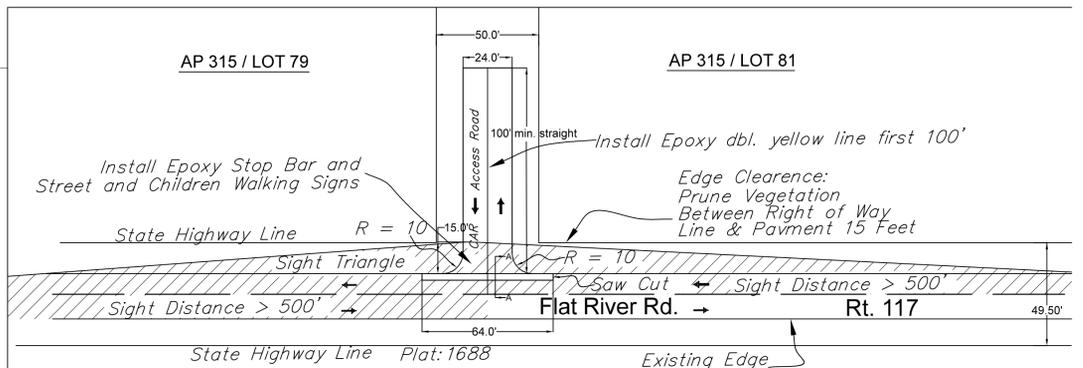
ROADWAY, VIEW FROM THE WOODS (WEST TO EAST)



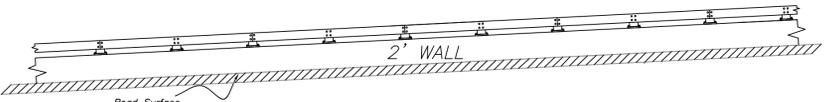
ROADWAY, VIEW LOOKING EAST



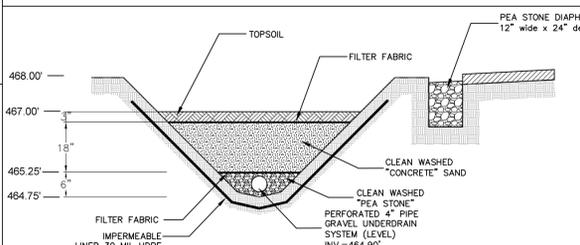
TYPICAL PROPOSED ROADWAY SECTION AT EDGE OF EXISTING ROADWAY A - A



DETAIL OF THE ENTRANCE



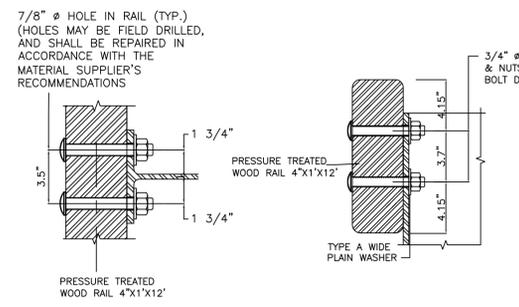
ROADWAY RAIL, VIEW LOOKING WEST



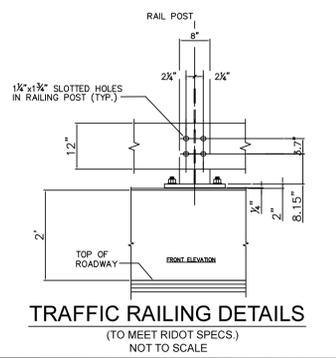
Sand Filter with 30 mil. HDPE Liner

$$A_f = (WQ_v)(dt) / [(k)(hf + dt)(t)]$$

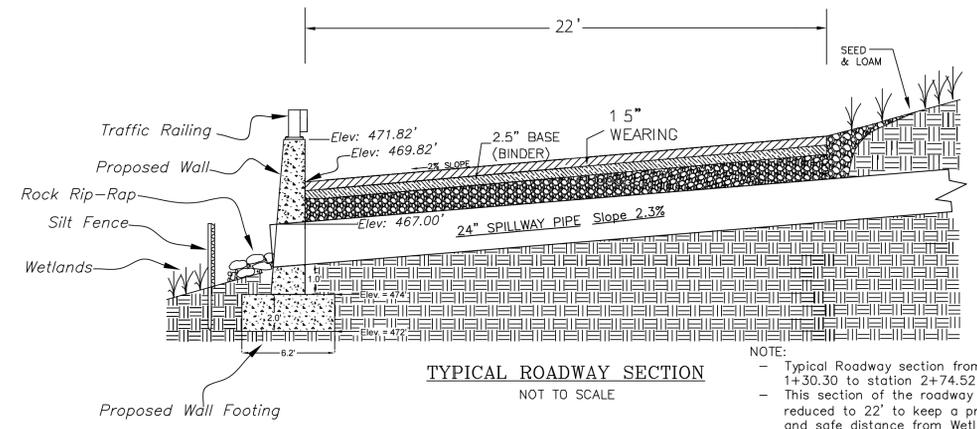
A_f = Surface area of filter bed (ft²)
 K = Coefficient of permeability (ft/day)
 dt = Filter depth (ft)
 hf = Average height of water above surface of parctice (ft)
 t = Design filter bed drain time (days)
 $A_b = (1185)(2) / [(3.5)(1+2)(2)] = 113 \text{ sq. ft.}$



DETAIL

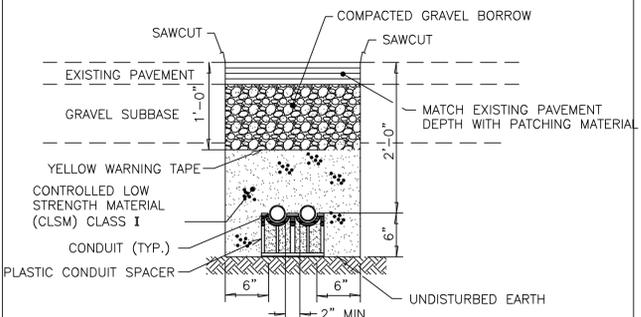


TRAFFIC RAILING DETAILS (TO MEET RIDOT SPECS.) NOT TO SCALE



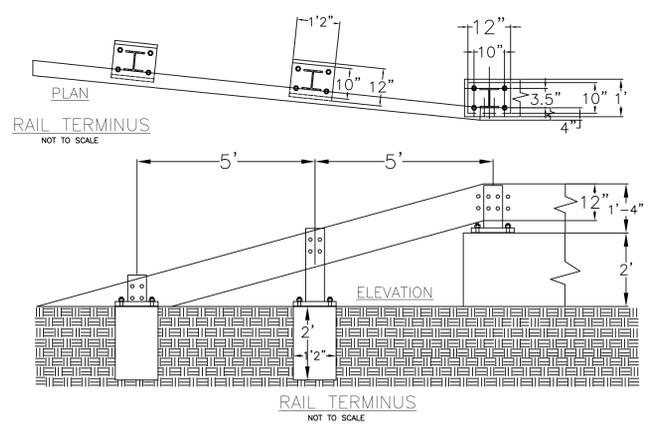
TYPICAL ROADWAY SECTION

NOTE:
 - Typical Roadway section from station 1+30.30 to station 2+74.52
 - This section of the roadway is been reduced to 22' to keep a prudent and safe distance from Wetlands.



Typical Utility Trenches

NOTE: INSTALL SPACERS AT APPROXIMATELY 6' APART. SCALE: N.T.S.



RAIL TERMINUS

NOTE:
 - Typical Roadway section from station 0+34.60 to station 1+30.30
 - This section of the roadway is been reduced to 22' to keep a prudent and safe distance from Wetlands.

TYPICAL ROADWAY SECTION



Scale in feet: 1"=30'

Revisions:

SAMUEL R. SUORSA
 No. 2508
 PROFESSIONAL LAND SURVEYOR

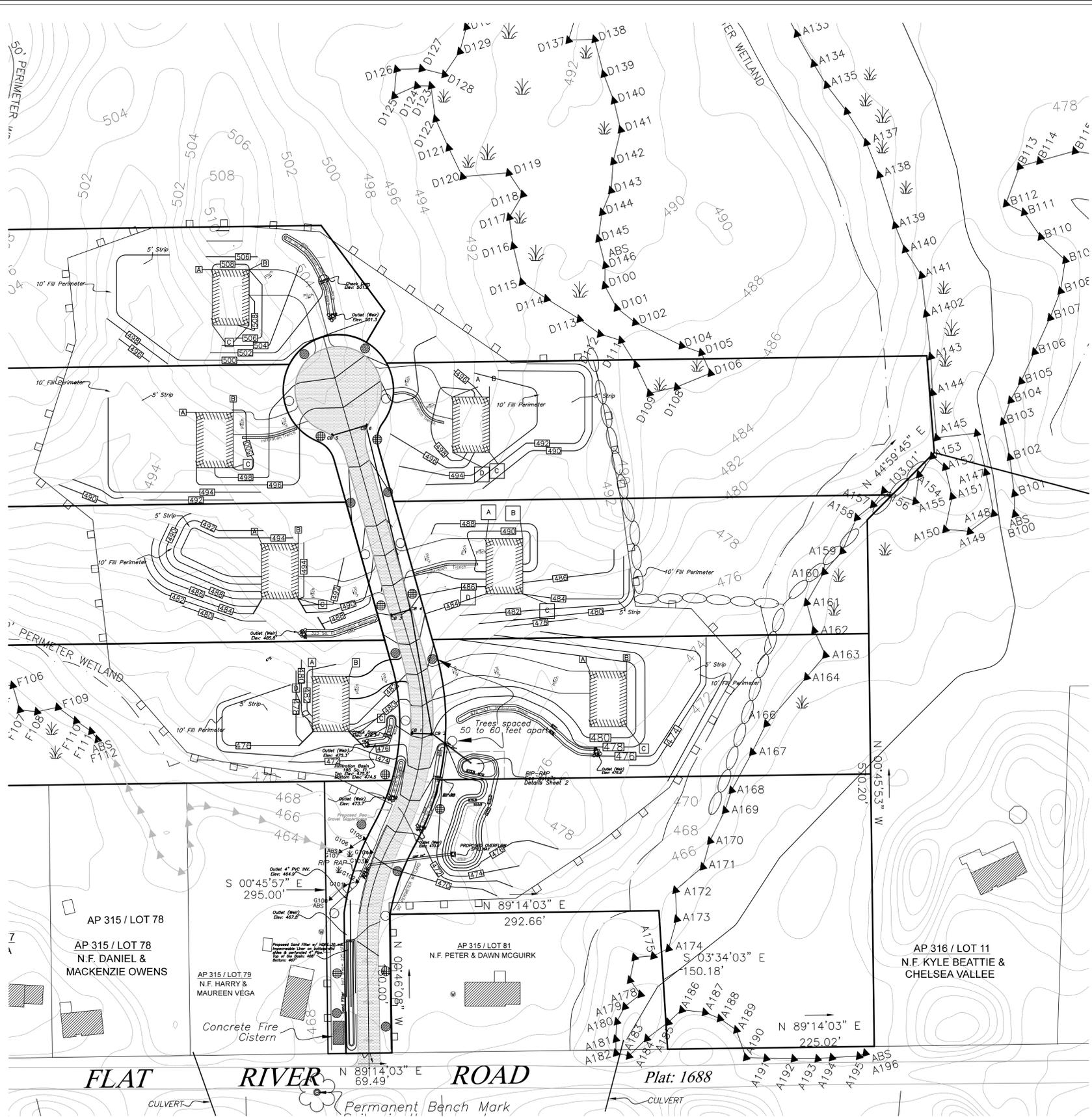
COVENTRY SURVEY CO.
 46 South Main Street
 Coventry, Rhode Island 02816
 (401) 823-5028
 Land Surveying / Mapping / OMTS Designs

Preliminary Submission
 Drainage Sheet 3 - 0+34 - 1+30
 on Flat River Road
 in the Town of Coventry, Rhode Island
 Assessor's Plat 315/ Lot 80
 Prepared for: Padula Builders Inc.
 1430 Main St. West. Warwick RI 02893

ARTHUR R. CRIPPS, JR.
 No. 5651
 Registered Professional Engineer

PROJECT ENGINEER:
 Arthur R. Cripps Jr., PE
 200 Shippee Plat Road
 Coventry, RI 02816

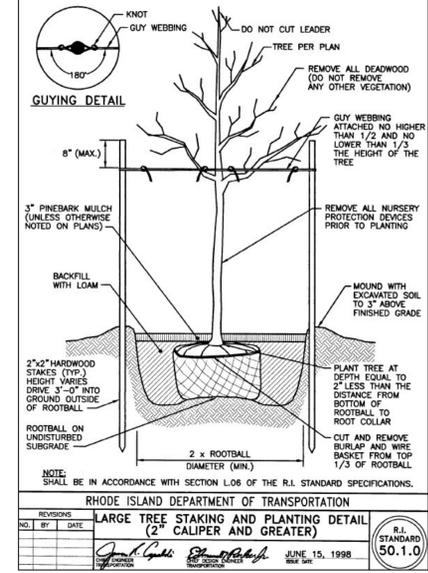
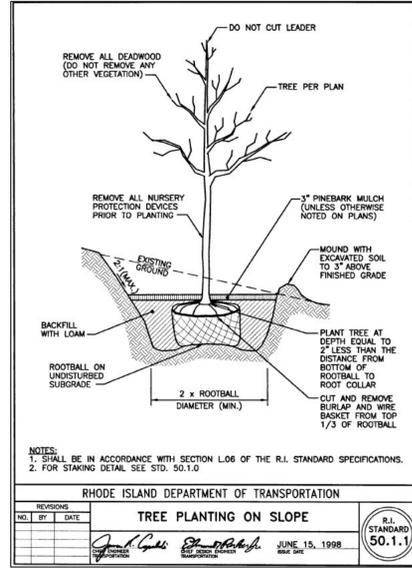
Date:
 Dec. 30, 2023



LANDSCAPE DETAILS

PLANT SCHEDULE

SYMBOL	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	REMARKS
○	8	<i>Tilia tomentosa</i>	Linden	2.5-3" cal.	B&B	5' STD.
●	10	<i>Liriodendron tulipifera</i>	Tulip	2.5-3" cal.	B&B	5' STD.
⊗	8	<i>Cornus florida</i> 'Cherokee Princess'	Cherokee Princess flowering dogwood	2.5-3" cal.	B&B	5' STD.



NOTES:

- Location:** Street trees shall be planted within street rights-of-way along the side of the pavement.
- Materials:** Trees shall be of nursery stock grown under local climatic condition. Trees shall be of symmetrical growth, free of insect pests and disease.
- Spacing:** Trees shall be planted at a distance of not less than fifty (50) feet and not more than seventy-five (75) feet apart along each side of the street pavement.
- Seasons Limits:** Planting shall be done during the proper seasons. No planting shall be done in frozen soil or during unfavorable weather conditions.

SEED "DEVELOPED AREA MIXTURE"	
MIX PERCENTAGE	SEED TYPE
60%	FALCON 4 TURF TALL FESCUE
30%	PALMER 4 PERENNIAL RYE GRASS
10%	GUINNESS KENTUCKY BLUE GRASS

SEED "UNDEVELOPED AREA MIXTURE"	
MIX PERCENTAGE	SEED TYPE
30%	PERENNIAL RYE GRASS
30%	ANNUAL RYE GRASS
30%	CREEPING RED FESCUE
10%	KENTUCKY BLUE GRASS

LOAM		
MATERIAL	SIEVE DESIGNATION	PERCENTAGE BY VOLUME
SAND	2.0 mm - 0.05 mm [0.08 INCH - 0.002 INCH]	45% - 75%
SILT	0.05 mm - 0.002mm [0.02 INCH - 0.00008 INCH]	20% - 40%
CLAY	LESS THAN 0.002mm [LESS THAN 0.00008 INCH]	5% - 15%

HUMUS - 10% TO 20% AS DETERMINED BY IGNITION TEST
PH LEVEL - 5.5 TO 8.0

- NOTE:
- SEED SHALL BE APPLIED AT A RATE OF 5 POUNDS PER 1000 SQUARE FEET (5 LBS./1 UNIT).
 - FOR AREAS SPECIFIED AS BEING SEEDDED WITH "UNDEVELOPED AREA MIXTURE", LOAM VARYING FROM THE ABOVE COMPOSITION WILL BE CONSIDERED ACCEPTABLE, PENDING APPROVAL OF THE CITY ENGINEER OR THEIR REPRESENTATIVE.
 - LOAM SHALL BE FREE FROM DEBRIS AND FOREIGN CONTAMINANTS, SUCH AS STICKS, LARGE ROCKS, VEGETATION FROM OTHER SOURCES, ETC.
 - LOAM PREPARATION SHALL BE DONE IN A MANNER THAT LEAVES THE SURFACE READY FOR SEED APPLICATION AND FREE FROM ROCKS LARGER THAN 1".

Scale in feet: 1"=40'

Revisions:

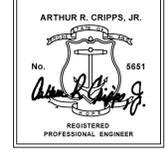
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SAMUEL R. SUORSA
No. 2508
PROFESSIONAL LAND SURVEYOR

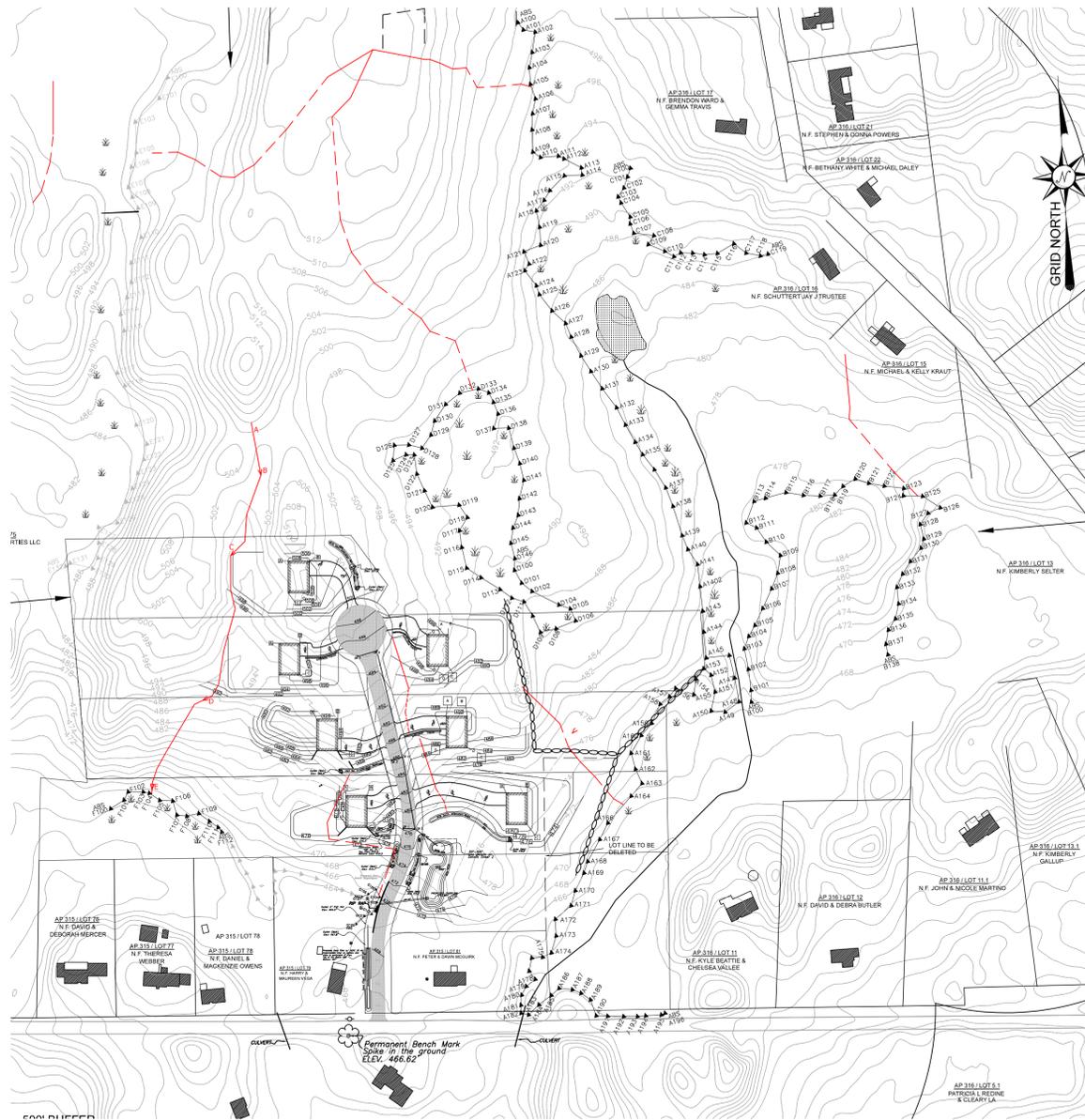
GOVENTRY SURVEY CO.
46 South Main Street
Coventry, Rhode Island 02816
(401) 823-5028
Land Surveying / Mapping / O&MS Designs

Preliminary Submission
Landscaping Plan
on Flat River Road
in the Town of Coventry, Rhode Island
Assessor's Plat 315/ Lot 80
Prepared for: Podula Builders Inc.
1430 Main St. West Warwick RI 02893

Date:
Dec. 30, 2023

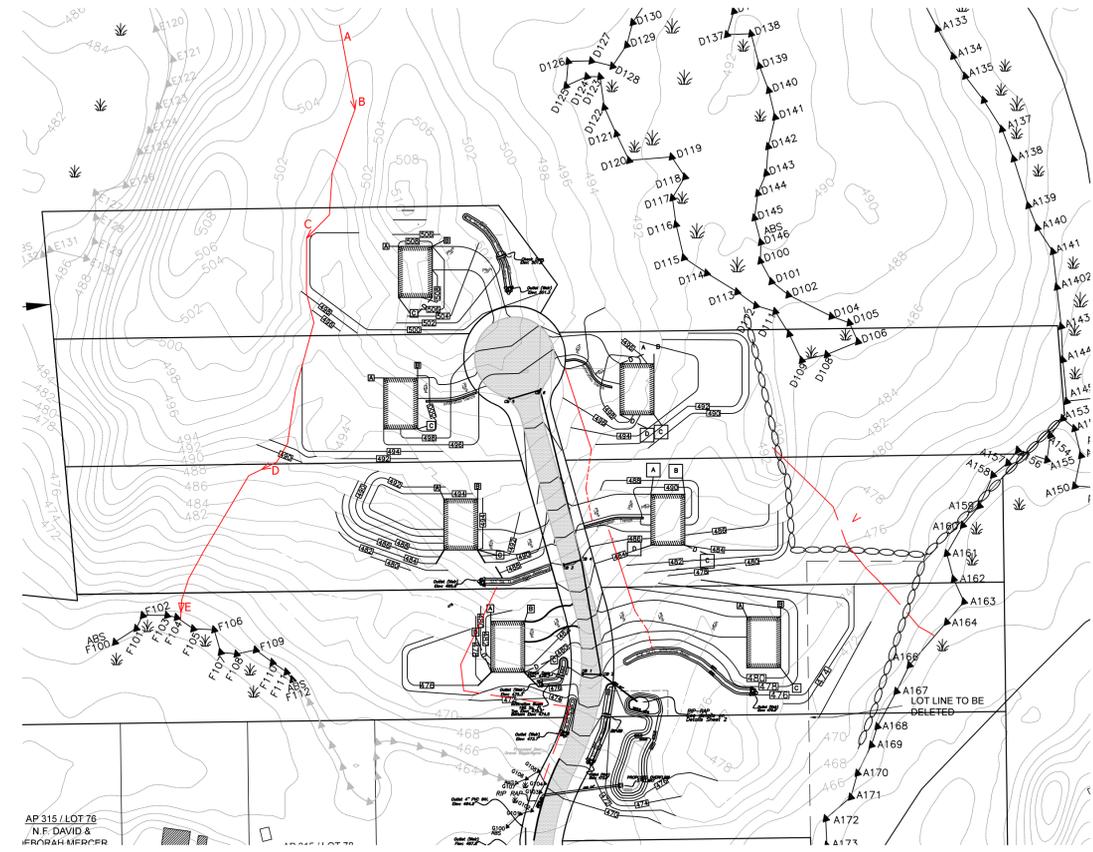


PROJECT ENGINEER:
Arthur R. Cripps Jr., PE
200 Shippee Flat Road
Coventry, RI 02816



WATERSHED POST-DEVELOPMENT CONDITION

1:150

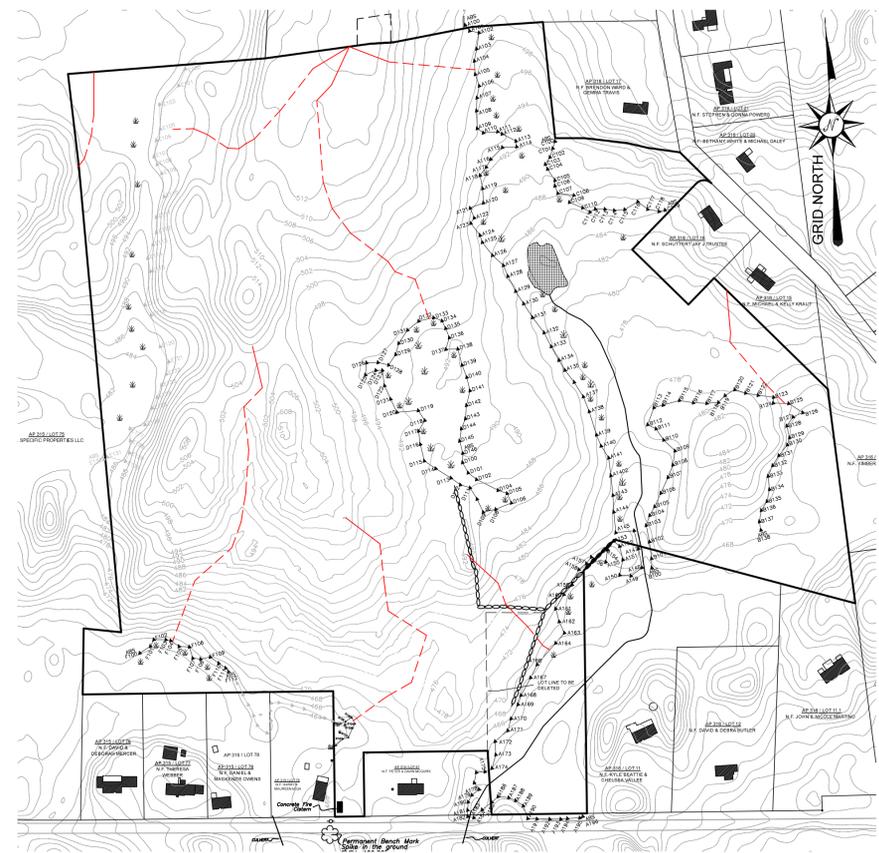


WATERSHED POST-DEVELOPMENT CONDITION

1:100

Watershed Post-Development Condition				
Post-Water Shed	AREA	COVER	CN	TC
PW 1	0.7917 Ac	100% Woods	60	51.5 min
PW 2	8.9417 Ac	100% Woods	60	44.5 min
PW 3	9.6145 Ac	100% Woods	60	49.6 min
PW 4	13.6061 Ac	100% Woods	60	50.5 min
PW 5	5.2552 Ac	81% Woods, 19% Grass	60	20.0 min
PW 6	4.3920 Ac	100% Woods	60	29.9 min
PW 7	5.4805 Ac	72% Woods, 28% Grass	60	34.0 min
PW 8	0.6236 Ac	29% Impervious, 71% Grass	72	6.0 min
PW 9	0.7105 Ac	50% Woods, 4% Impervious, 46% Grass	62	6.0 min
PW 10	0.2038 Ac	28% Impervious, 72% Grass	71	6.0 min
PW 11	0.1516 Ac	26% Woods, 22% Impervious, 52% Grass	69	6.0 min
PW 12	0.0818 Ac	100% Impervious	98	6.0 min
PW 13	0.1030 Ac	78% Impervious, 22% Grass	90	6.0 min
PW 14	0.0841 Ac	60% Impervious, 40% Grass	83	6.0 min
PW 15	0.3786 Ac	21% Woods, 12% Impervious, 67% Grass	65	6.0 min
PW 16	0.0604 Ac	100% Impervious	98	6.0 min
PW 17	0.0609 Ac	100% Impervious	98	6.0 min
PW 18	0.4138 Ac	18% Woods, 11% Impervious, 71% Grass	64	9.6 min
PW 19	0.1962 Ac	14% Impervious, 86% Grass	60	50.5 min
PW 20	0.0373 Ac	100% Impervious	98	6.0 min
PW 21	0.0385 Ac	100% Impervious	98	6.0 min
PW 22	0.5402 Ac	17% Impervious, 83% Grass	67	8.3.0 min
PW 23	0.0551 Ac	100% Impervious	98	6.0 min
PW 24	0.0551 Ac	100% Impervious	98	6.0 min
PW 25	0.0551 Ac	100% Impervious	98	6.0 min
PW 26	0.0551 Ac	100% Impervious	98	6.0 min
PW 27	0.0551 Ac	100% Impervious	98	6.0 min
PW 28	0.0551 Ac	100% Impervious	98	6.0 min
PW 29	0.0551 Ac	100% Impervious	98	6.0 min

DESIGN POINT	PRE-DEVELOPMENT PEAK FLOW		POST-DEVELOPMENT PEAK FLOW	
	10 Year Type-11 24-Hour storm	100 Year Type-11 24-Hour storm	10 Year Type-11 24-Hour storm	100 Year Type-11 24-Hour storm
	WETLAND A	9.16 Cubic Feet per Second	31.89 Cubic Feet per Second	8.23 Cubic Feet per Second
WETLAND B	3.10 Cubic Feet per Second	10.73 Cubic Feet per Second	3.10 Cubic Feet per Second	10.73 Cubic Feet per Second
WETLAND D	5.47 Cubic Feet per Second	18.96 Cubic Feet per Second	5.30 Cubic Feet per Second	18.35 Cubic Feet per Second
WETLAND E	5.19 Cubic Feet per Second	17.97 Cubic Feet per Second	5.19 Cubic Feet per Second	17.97 Cubic Feet per Second
WETLAND F	3.89 Cubic Feet per Second	13.46 Cubic Feet per Second	3.75 Cubic Feet per Second	12.80 Cubic Feet per Second
WETLAND G	2.94 Cubic Feet per Second	10.18 Cubic Feet per Second	1.71 Cubic Feet per Second	08.01 Cubic Feet per Second



WATERSHED PRE-DEVELOPMENT CONDITION

1:200

Revisions:

SAMUEL R. SUORSA
No. 2508
PROFESSIONAL
LAND SURVEYOR

COVENTRY
SURVEY CO.
46 South Main Street
Coventry, Rhode Island 02816
(401) 823-5028
Land Surveying / Mapping / O&MS Designs

Preliminary Submission

Watershed Plan for Bucks Horn Meadow
on Flat River Road
in the Town of Coventry, Rhode Island
Assessor's Plat 315 / Lots 80 & 95
Prepared for: Padula Builders Inc.
1430 Main Street, West Warwick, Rhode Island 02816

ARTHUR R. CRIPPS, JR.
No. 5651
Date: Dec. 30, 2023
REGISTERED
PROFESSIONAL ENGINEER

PROJECT ENGINEER:
Arthur R. Cripps Jr., PE
200 Shippee Plat Road
Coventry, RI 02816

Date:
Dec. 30, 2023

Sheet 17 of 17