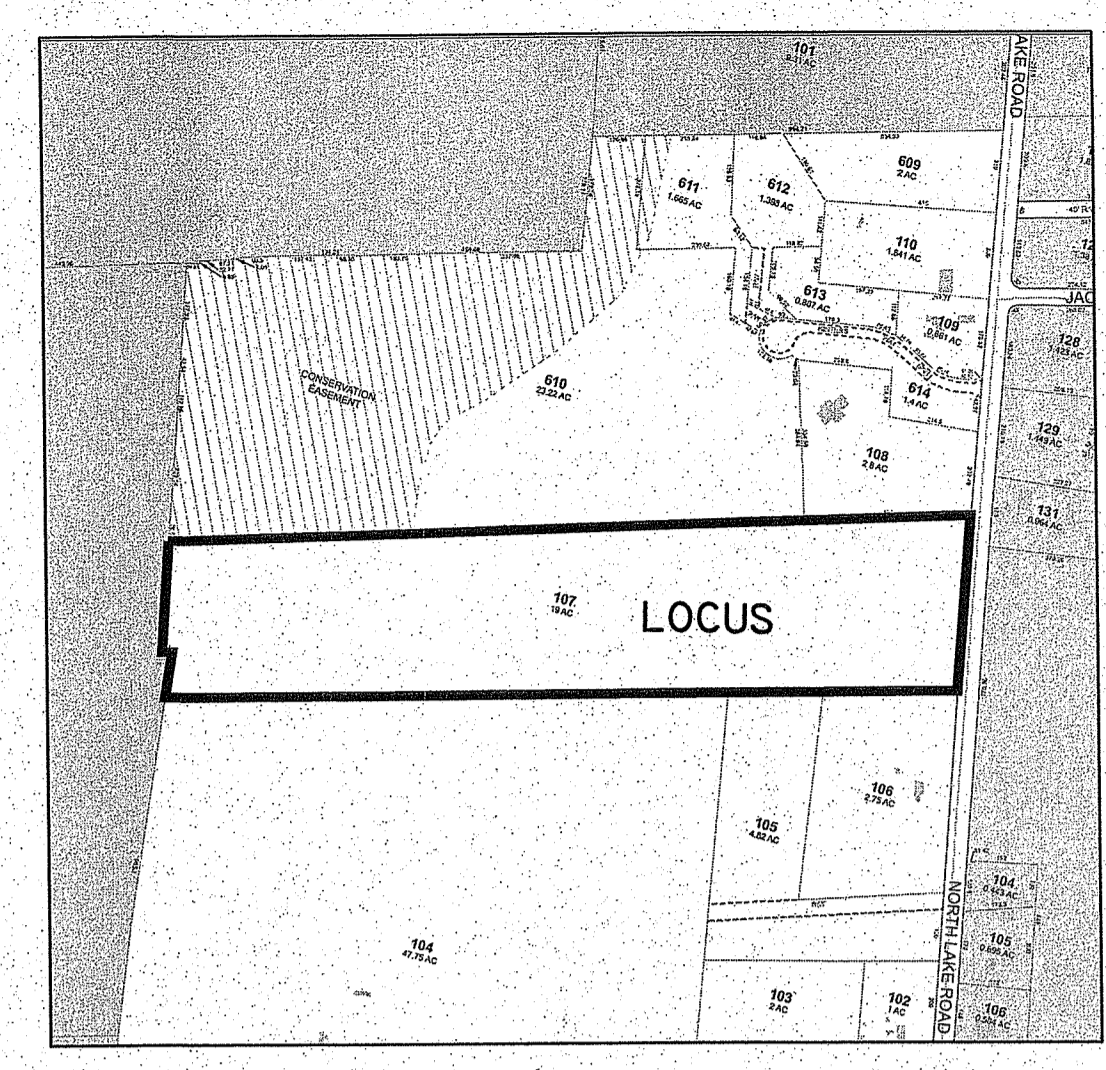


NOTES:

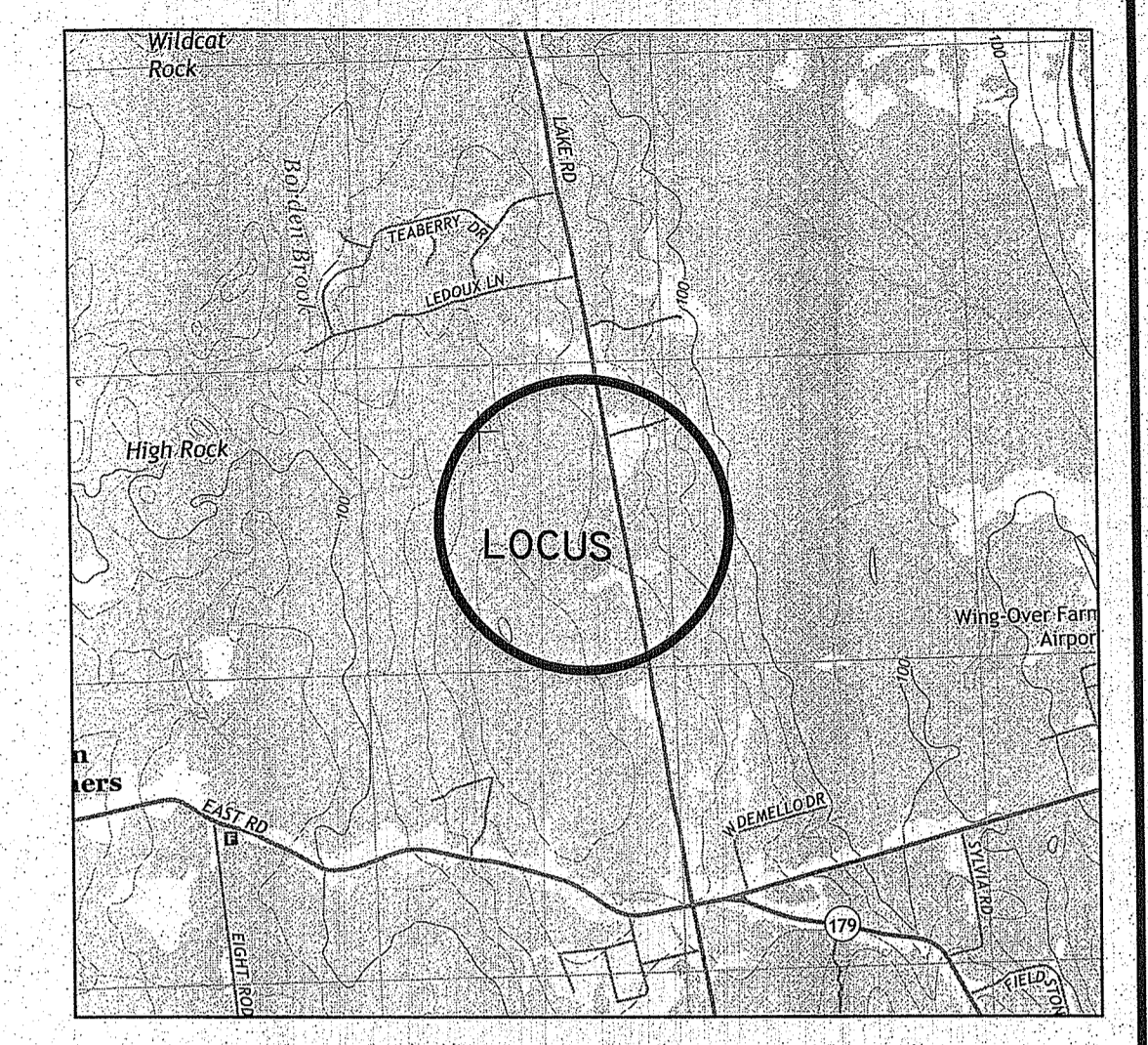
- 1) SEE RIDEM FILE #1533-1431 FOR ORIGINAL OWTS PERMIT FOR PLAT 609 LOT 107.
- 2) SEE RIDEM FILE #17-0185 FOR WETLAND PERMIT TO INSTALL THE GRAVEL DRIVEWAY, CULVERT AND UNDERGROUND UTILITIES (COMPLETED), AND CONSTRUCT A DWELLING, WELL AND OWTS ON PLAT 609 LOT 107 (NOT COMPLETED). NEW WETLAND PERMIT REQUIRED.
3. TOTAL PROPOSED SITE DISTURBANCE = 41,156 SF

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

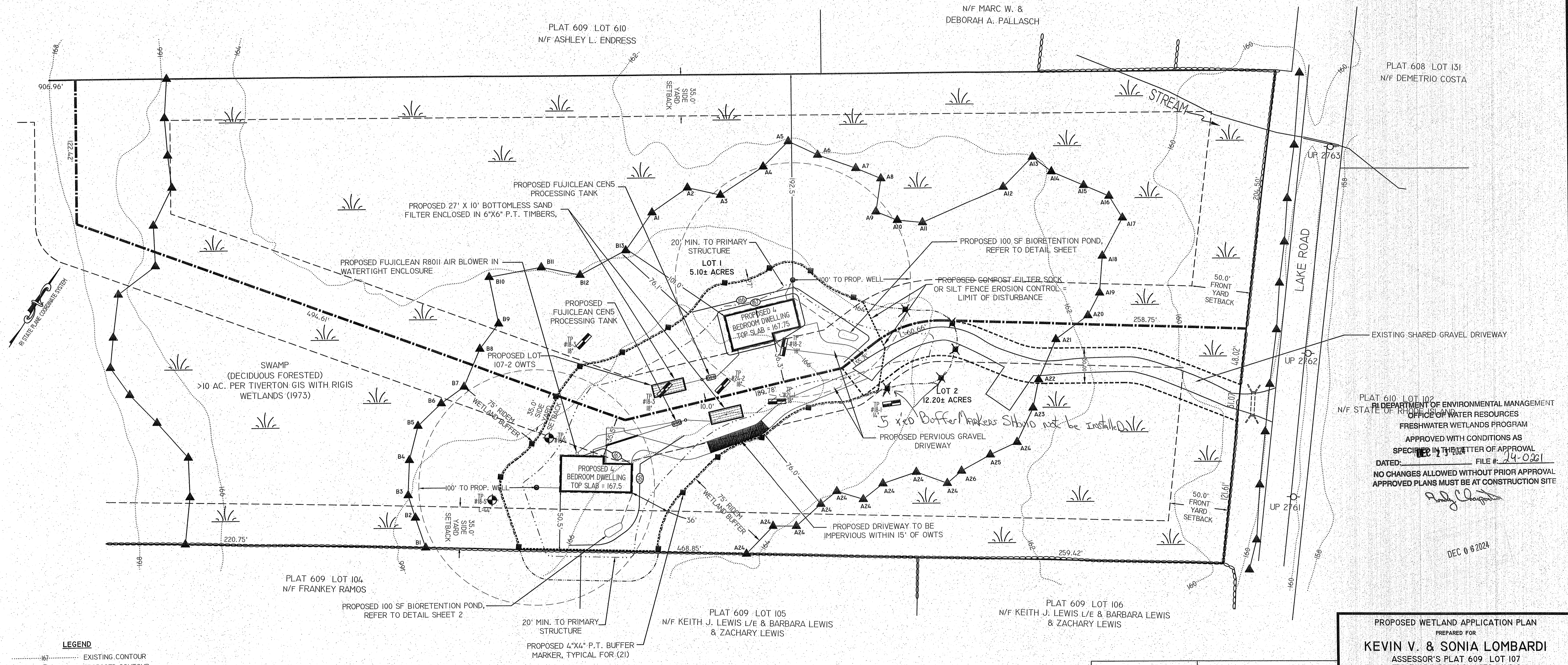
NOTE PER DEM:
Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site



ASSESSOR'S MAP
NOT TO SCALE



LOCUS MAP
SCALE: 1"=2000'



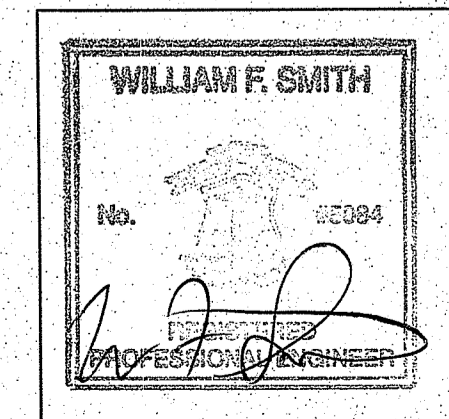
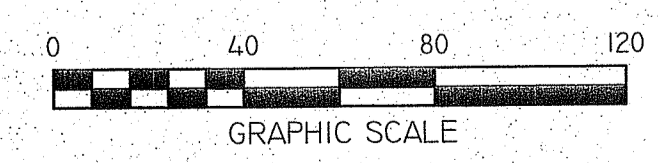
PLAT 609 LOT 107
N/F STATE OF RHODE ISLAND

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: 12/17/24 FILE #: 24-0221
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

[Signature]
DEC 06 2024

- LEGEND**
- 167 --- EXISTING CONTOUR
 - 167 --- PROPOSED CONTOUR
 - --- EXISTING PROPERTY LINE
 - --- STONE WALL
 - --- PROPOSED LOT LINE
 - --- PROPOSED 30' WIDE COMMON DRIVEWAY EASEMENT
 - --- WETLAND EDGE
 - --- 75' RIDEM WETLAND BUFFER
 - --- 20' MIN. PRIMARY STRUCTURE SETBACK
 - --- WATERSHED OVERLAY PROTECTION DISTRICT BOUNDARY
 - --- PROPOSED EROSION CONTROL

NOTE: CONTRACTOR SHALL CONTACT ENGINEER TO SET BENCHMARK WITHIN 100' OF OWTS PRIOR TO START OF CONSTRUCTION

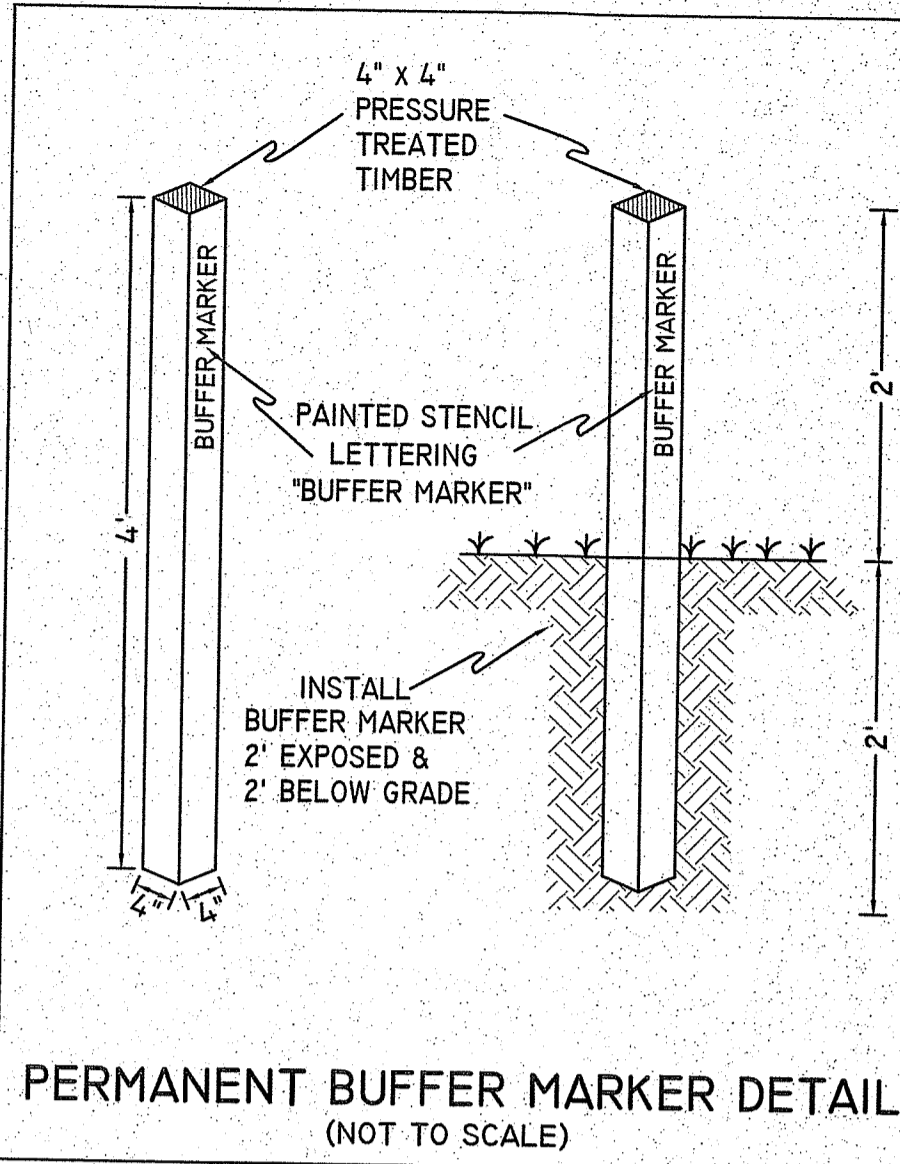
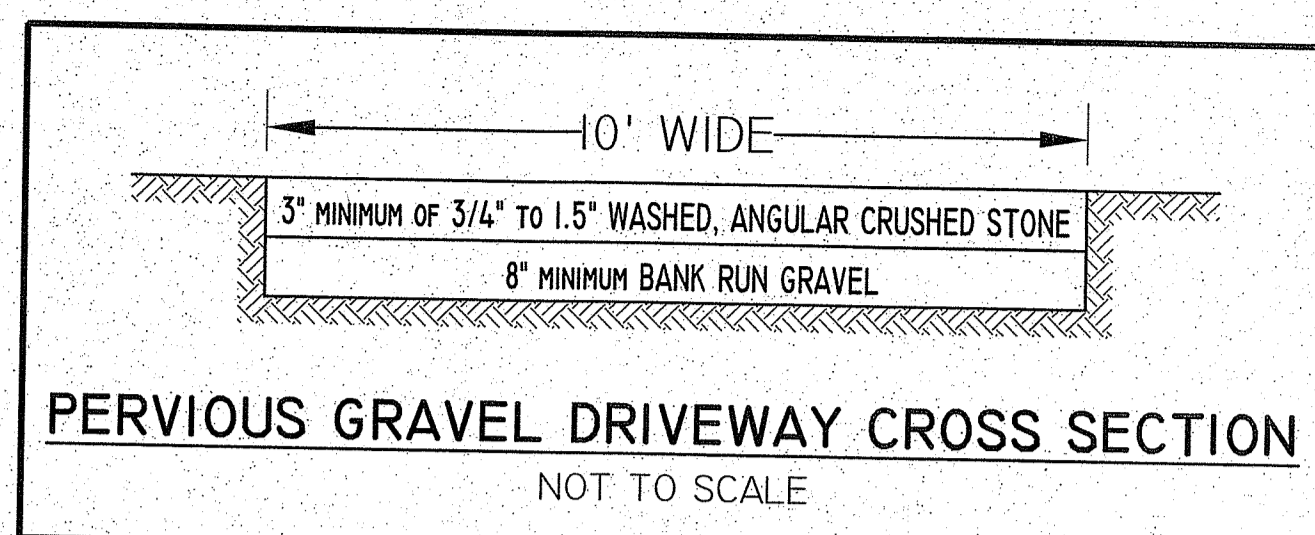
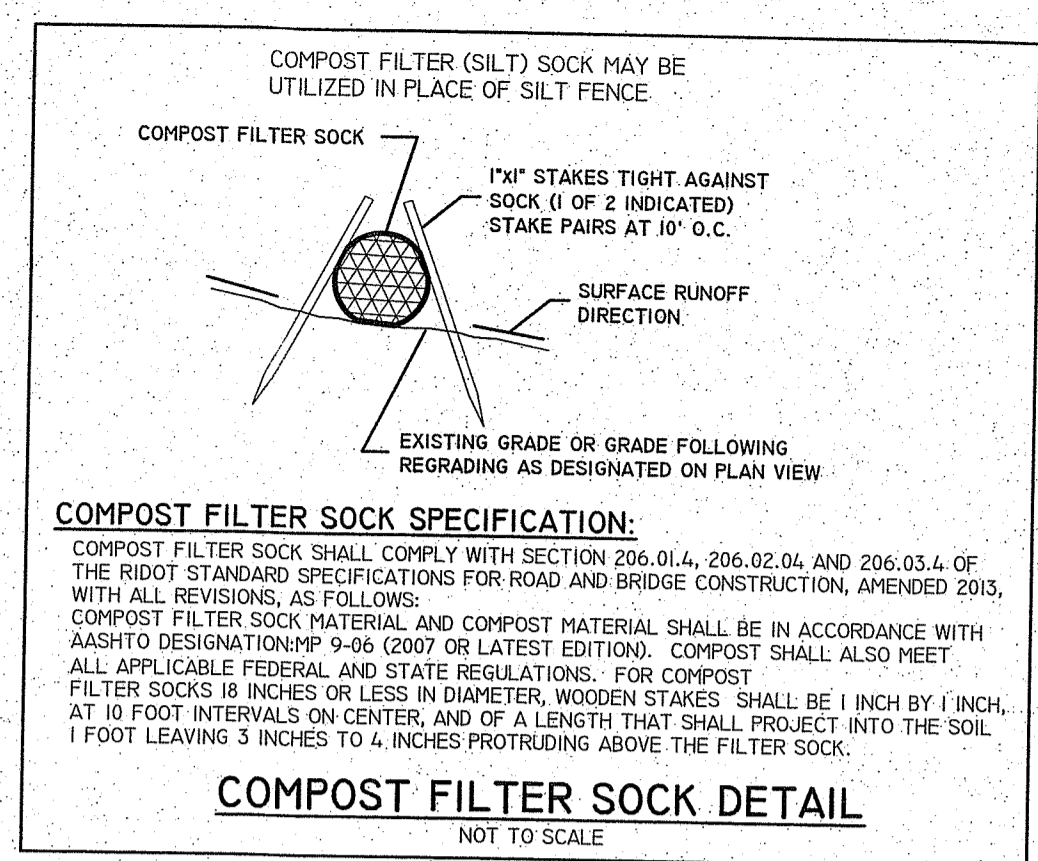
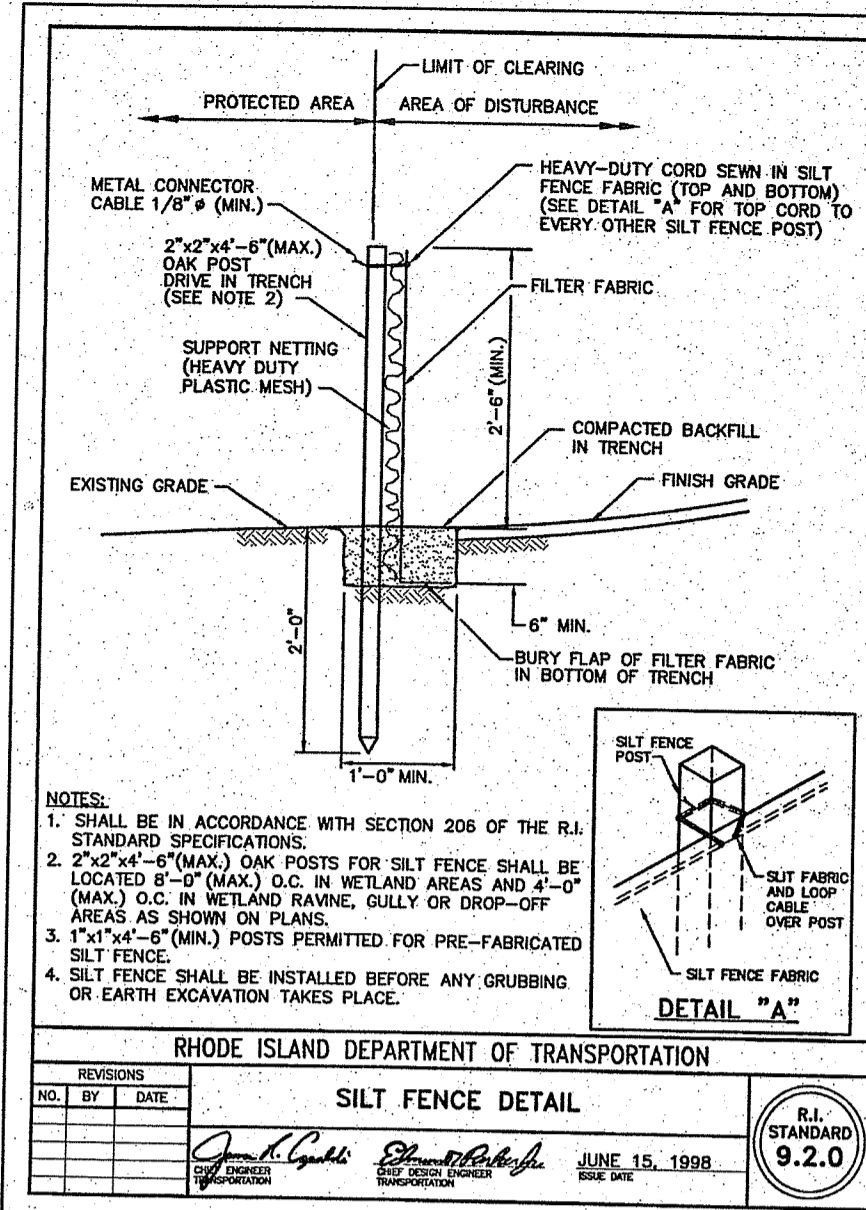


REVISIONS:	1) 12/4/24: Edits per RIDEM COMMENTS
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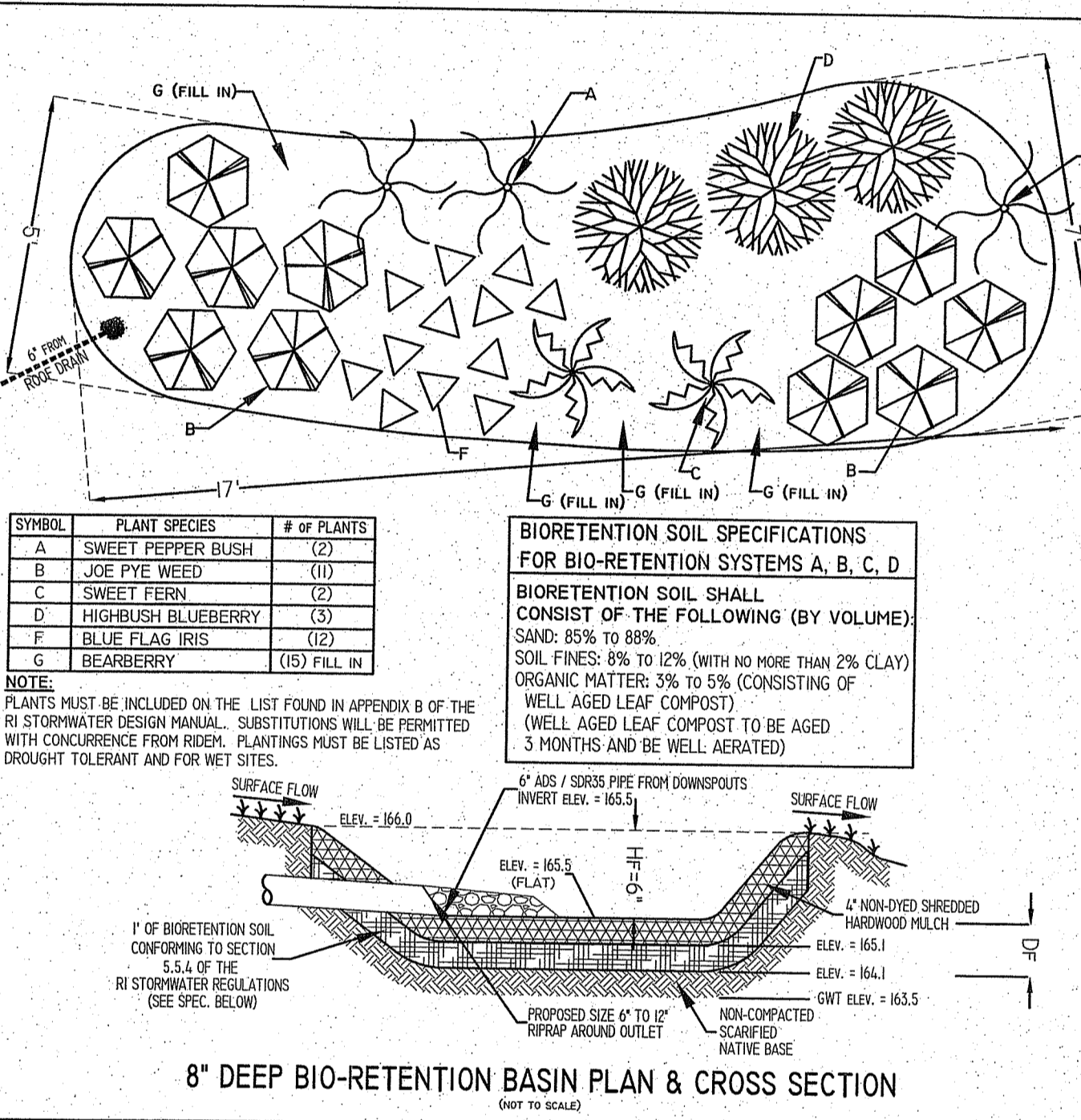
PROPOSED WETLAND APPLICATION PLAN
PREPARED FOR
KEVIN V. & SONIA LOMBARDI
ASSESSOR'S PLAT 609 LOT 107
FRONTAGE SUBDIVISION LOTS 1 AND 2
LAKE ROAD
TIVERTON, RHODE ISLAND
SCALE: 1" = 40' DATE: OCTOBER 4, 2024

Civil Engineering Concepts, Inc.
344 MAIN STREET
LITTLE COMPTON, RI 02857
PH: (401) 592-0177
FAX: (401) 592-0178
EMAIL: wsmithccc@aol.com

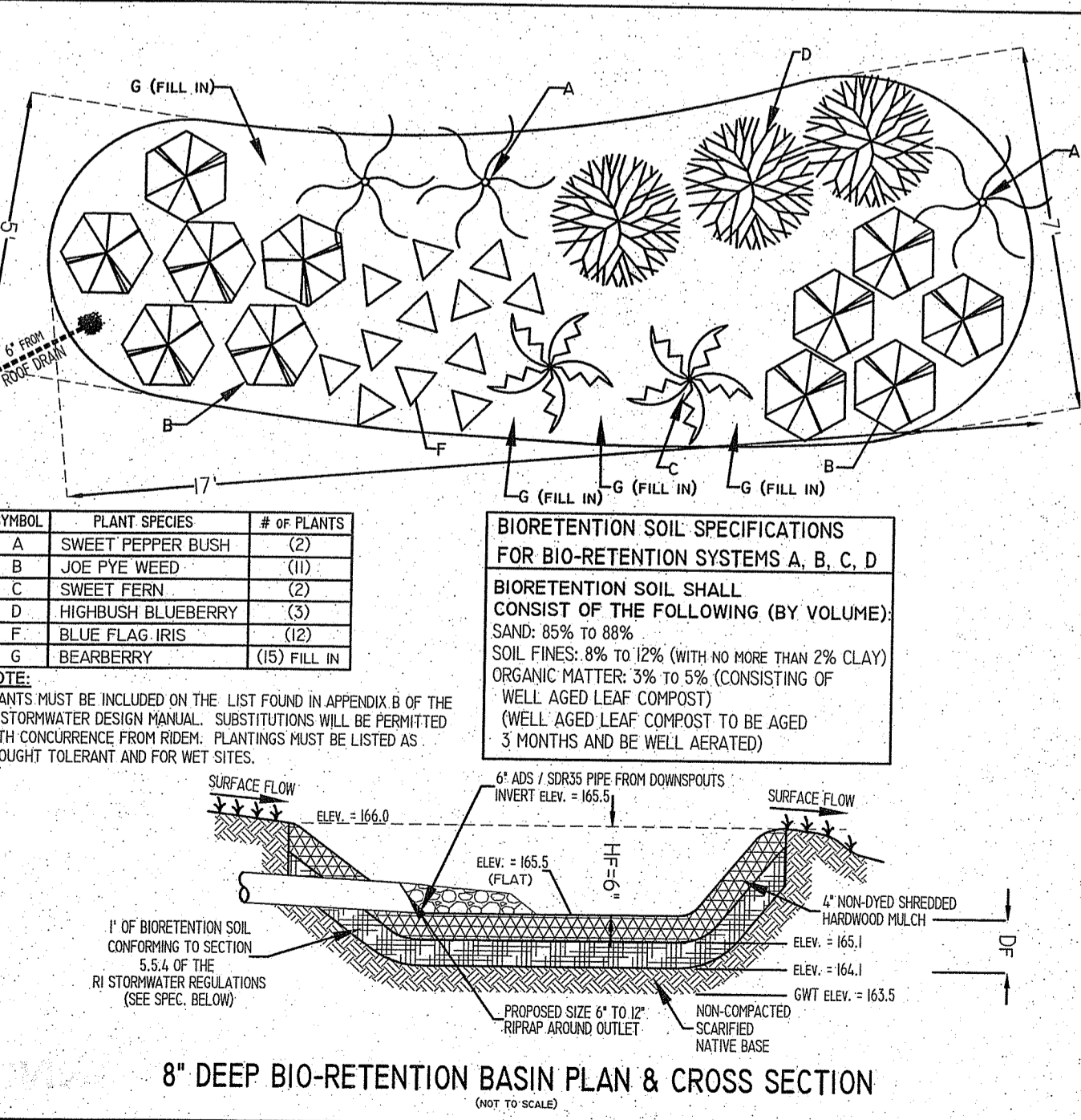
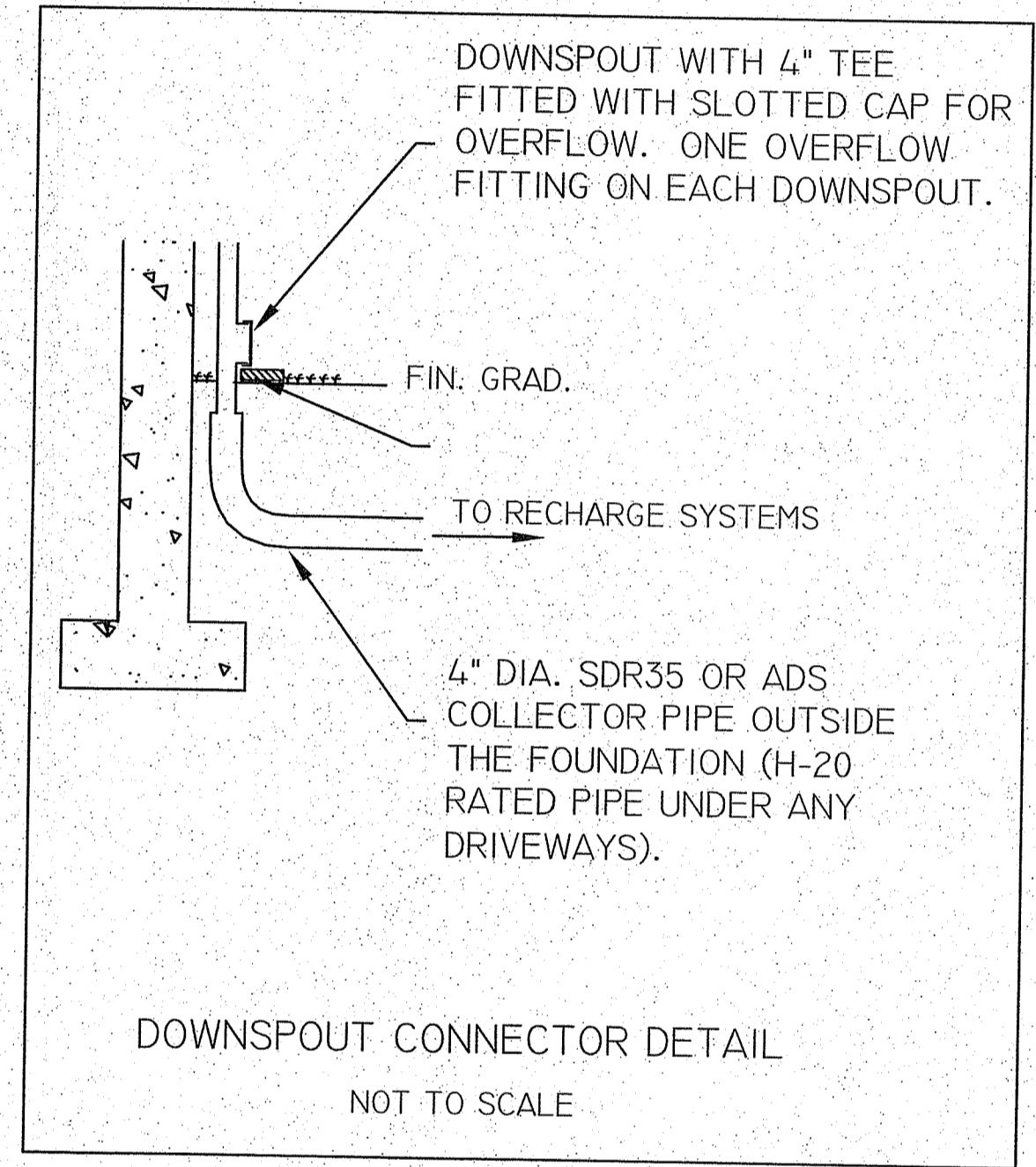
PE COA #5141
PS COA #A402
SHEET 1 OF 2
JOB#: 16-073



- GENERAL CONSTRUCTION NOTES:
1. ALL CONSTRUCTION SHALL CONFORM TO RI DEM OWTS REGULATIONS 250-RICR-150-10-6; RULES ESTABLISHING MINIMUM STANDARDS RELATING TO LOCATION, DESIGN, CONSTRUCTION AND MAINTENANCE OF ON-SITE WASTEWATER TREATMENT SYSTEMS AS MOST RECENTLY AMENDED.
 2. A HIGH WATER TABLE, SUBSTANTIAL RAINFALL, OR SATURATED GROUND CONDITIONS DURING INSTALLATION COULD COMPROMISE THE QUALITY AND LIFE EXPECTANCY OF THE SYSTEM. DESIGNER RESERVES THE RIGHT TO RESTRICT THE TIMING OF INSTALLATION IF HIGH GROUNDWATER CONDITIONS OR FORECASTED INCLEMENT WEATHER ARE PRESENT AND COULD JEOPARDIZE THE QUALITY OF THE SYSTEM INSTALLATION. PARTIALLY INSTALLED SYSTEMS SHALL BE PROTECTED FROM FLOODING AND/OR SILT ACCUMULATION DURING INCLEMENT WEATHER.
 3. THE PROPOSED OWTS DESIGN UTILIZES ONE OR MORE PUMPING SYSTEMS AND ADVANCED TREATMENT COMPONENTS. THIS OWTS REQUIRES ON-GOING MAINTENANCE (IN ACCORDANCE WITH THE TREATMENT SYSTEM SYSTEM MANUFACTURER AND RI DEM) AS PART OF THE SYSTEM APPROVAL. THE PROPERTY OWNER IS RESPONSIBLE FOR MAINTAINING A CURRENT OPERATION AND MAINTENANCE (O&M) AGREEMENT WITH THE COMPONENTS MANUFACTURER'S REPRESENTATIVE.
 4. ALL WORK SHALL BE DONE IN A WORKMANLIKE MANNER, WITH LINES LAID AS STRAIGHT AS POSSIBLE AND JOINTS MADE WATERTIGHT, AND PERFORMED BY AN INSTALLER LICENSED IN THE STATE OF RHODE ISLAND AND CERTIFIED TO INSTALL THE SPECIFIED TREATMENT SYSTEM. DIG-SAFE NOTIFICATION IS REQUIRED PRIOR TO ANY EXCAVATION. ANY UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE ONLY AND ARE BASED ON LIMITED AVAILABILITY OF PLANS, VISUAL OBSERVATION, AND LOCAL KNOWLEDGE. VERIFICATION OF INSTALLER'S CERTIFICATION MAY BE REQUIRED BY THE DESIGNER PRIOR TO "START OF CONSTRUCTION" REQUEST BY THE INSTALLER.
 5. ALL WORK SHALL COMPLY WITH THE ISSUED RIDEM WETLAND PERMIT. A COPY OF THE PERMIT AND APPROVED PLAN SHALL BE KEPT ON-SITE FOR THE DURATION OF THE PROJECT.
 6. NO FUELING OF VEHICLES IS PERMITTED WITHIN 75 FEET OF THE WETLAND EDGE.
 7. COMPOST FILTER SOCK OR SILT FENCE EROSION CONTROL SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION ACTIVITIES AND REMAIN IN PLACE UNTIL COMPLETION OF THE PROJECT AND GRASS IS RE-ESTABLISHED IN DISTURBED AREAS. EROSION CONTROL SHALL BE INSPECTED DAILY AND REPLACED OR MAINTAINED AS NECESSARY.
 8. THE SITE SHALL BE POLICED DAILY FOR TRASH AND CONSTRUCTION DEBRIS AND DISPOSED OF PROPERLY.
 9. BUFFER MARKERS WILL BE PLACED IN (2) LOCATIONS AS SHOWN. MARKERS SHALL BE 4" X 4" P.T. POSTS 30" IN LENGTH (24" BURIED, 24" EXPOSED).



8' DEEP BIO-RETENTION SIZE CALCULATIONS
 PROPOSED IMPERVIOUS COVERAGE:
 1656 SF PROPOSED DWELLING (0.038 Acres)
 50 SF INCREASE IN DRIVEWAYS (PORTION OF DRIVEWAY TO BE PAVED)
 2,777 SF TOTAL INCREASE IN IMPERVIOUS AREA (0.062 Acres)
WATER QUALITY VOLUME CALCULATION:
 $WQV = (I)(X)/12$ $I = 0.038$ Ac ($\approx 1,656$ SF)
 $WQV = 0.003$ Ac-Ft
FILTER AREA CALCULATION:
 $AF = (WQV)(DF)/(K)(HF + D)(TF)$
 $AF = (0.003)(1.4)/(1)(0.5 + 1.4)(2)$
 $AF = 0.0011$ Ac = 48 SF (USE 100 SF FOR PROP. BIO-RET. AREA (AF))
FILTER STORAGE VOLUME MUST BE AT LEAST 75% WQV
 $75\% WQV = 0.002$ Ac-Ft (52 CUFT)
VOLUME OF VOIDS = (AF)(POROSITY FACTOR)(DF)
VOLUME AT 6\"/>



8' DEEP BIO-RETENTION SIZE CALCULATIONS
 PROPOSED IMPERVIOUS COVERAGE:
 1656 SF PROPOSED DWELLING (0.038 Acres)
 50 SF INCREASE IN DRIVEWAYS (PORTION OF DRIVEWAY TO BE PAVED)
 2,777 SF TOTAL INCREASE IN IMPERVIOUS AREA (0.062 Acres)
WATER QUALITY VOLUME CALCULATION:
 $WQV = (I)(X)/12$ $I = 0.038$ Ac ($\approx 2,777$ SF)
 $WQV = 0.004$ Ac-Ft
FILTER AREA CALCULATION:
 $AF = (WQV)(DF)/(K)(HF + D)(TF)$
 $AF = (0.004)(1.4)/(1)(0.5 + 1.4)(2)$
 $AF = 0.0015$ Ac = 65 SF (USE 100 SF FOR PROP. BIO-RET. AREA (AF))
FILTER STORAGE VOLUME MUST BE AT LEAST 75% WQV
 $75\% WQV = 0.002$ Ac-Ft (52 CUFT)
VOLUME OF VOIDS = (AF)(POROSITY FACTOR)(DF)
VOLUME AT 6\"/>

WILLIAM F. SMITH
 No. 12424
 PROFESSIONAL ENGINEER

1) 12/4/24; NO CHANGES THIS SHEET
 REVISIONS:

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS AS SPECIFIED IN THE MATTER OF APPROVAL
 DATED: DEC 23 2024 FILE #: 24-0261
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Randy Chapman

DEC 0 8 2024

PROPOSED WETLAND APPLICATION PLAN
 PREPARED FOR
KEVIN V. & SONIA LOMBARDI
 ASSESSOR'S PLAT 609 LOT 107
 FRONTAGE SUBDIVISION LOTS 1 AND 2
 LAKE ROAD
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 NOT TO SCALE DATE: OCTOBER 4, 2024

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 SHEET 2 OF 2 JOB#: 14-073