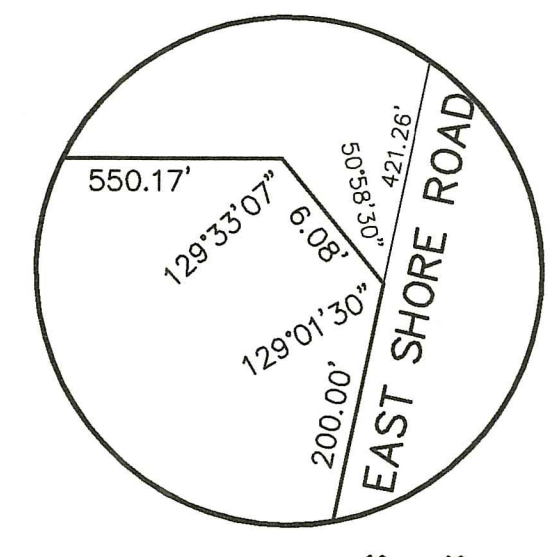


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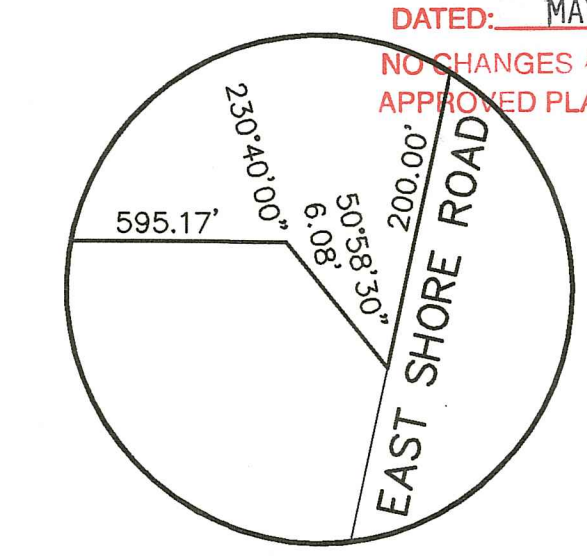
N/F	NOW OR FORMERLY
S.F.	SQUARE FEET
IP	IRON PIPE
DH	DRILL HOLE
PL	PROPERTY LINE
FND	FOUND

- GENERAL NOTES:**
1. THE PARCEL IS PLAT 4, LOT 126.
 2. THE TOTAL PARCEL AREA IS 467,490 S.F. OR 10.7321 ACRES.
 3. THE EXISTING DWELLING ADDRESS IS 543 EAST SHORE ROAD.
 4. SEE DEED BOOK 949 AT PAGE 223 FOR TITLE REFERENCE.
 5. THE BASIS OF BEARING SHOWN ON THIS PLAN WAS TAKEN FROM A MAGNETIC READING PERFORMED DURING SURVEY FIELD WORK ON DECEMBER 9, 2020.
 6. THE PARCEL IS SUBJECT TO AND/OR TOGETHER WITH ANY EASEMENTS, RESTRICTIONS OR COVENANTS OF RECORD.

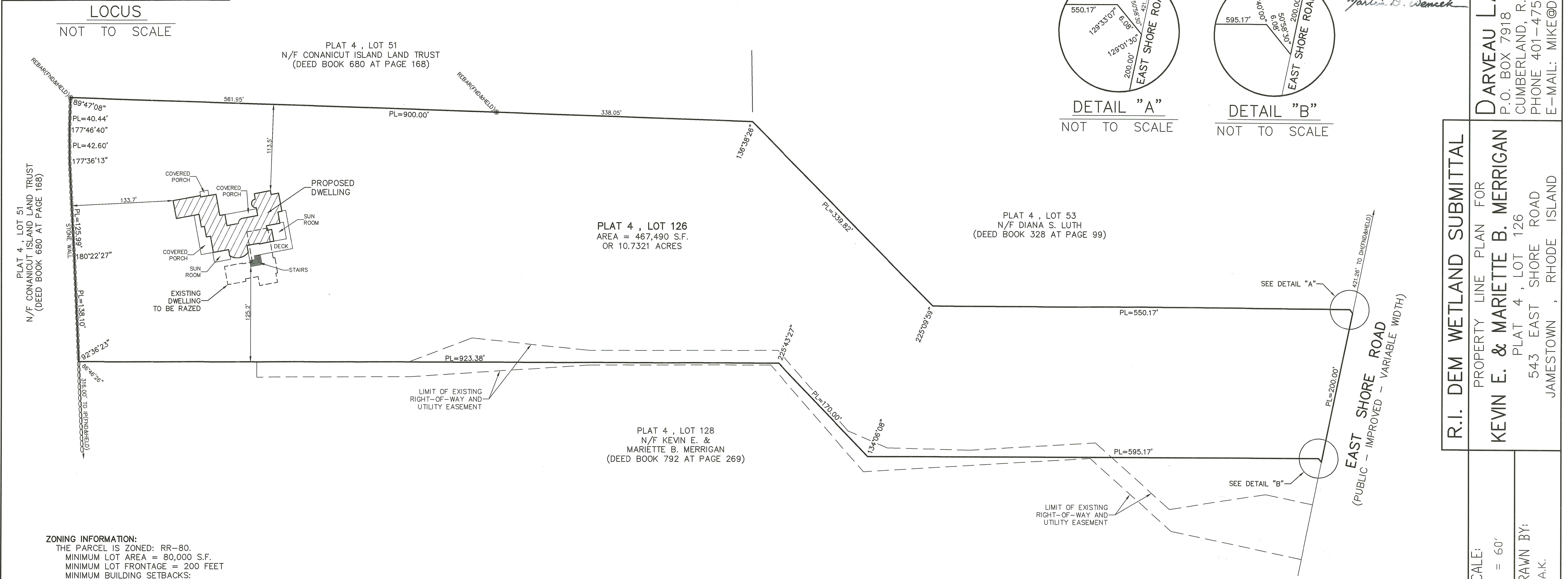
RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED: MAY 03 2023 FILE #: 22-0297
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Michael D. Wencek



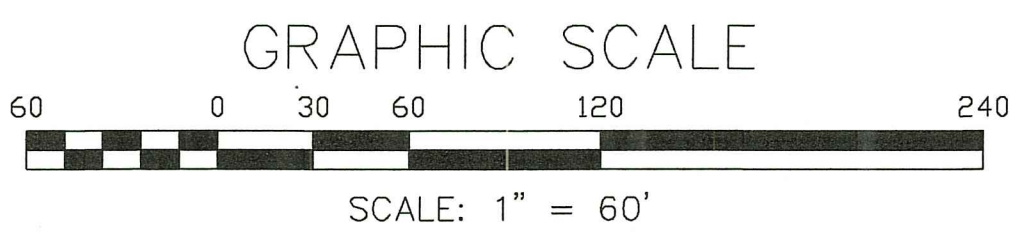
DETAIL "A"
NOT TO SCALE



DETAIL "B"
NOT TO SCALE

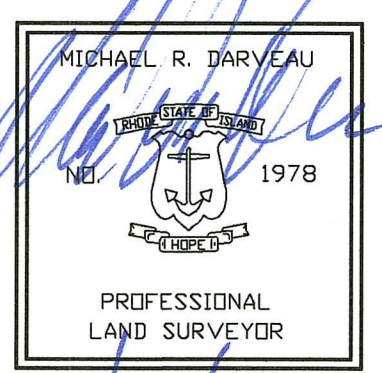


ZONING INFORMATION:
 THE PARCEL IS ZONED: RR-80.
 MINIMUM LOT AREA = 80,000 S.F.
 MINIMUM LOT FRONTAGE = 200 FEET
 MINIMUM BUILDING SETBACKS:
 FRONT YARD = 40 FEET
 SIDE YARD = 30 FEET
 REAR YARD = 40 FEET
 MAXIMUM LOT COVERAGE = 20%
 MAXIMUM BUILDING HEIGHT = 35 FEET



- PLAN REFERENCE:**
1. PLAN ENTITLED "MINOR SUBDIVISION PLAN OF LAND OWNED BY ALAN C. & LYNNE C. EAGLES, PLAT 4, LOT 126, EAST SHORE ROAD, JAMESTOWN, RHODE ISLAND, SCALE: 1" = 80', DATE: DEC. 27, 1999, BY RC COURNOYER ENTERPRISES, INC.," WHICH IS RECORDED IN THE TOWN OF JAMESTOWN REGISTRY OF DEEDS AT HPF#153B.
 2. PLAN ENTITLED "LOTS A & B, PORTION LOT 53, AP 4, SCALE: 1" = 200', DATED: JANUARY 1979, REVISED: MARCH 1979, DRIVEWAY EASEMENTS, BY ISLAND ENGINEERING," WHICH IS RECORDED IN THE TOWN OF JAMESTOWN REGISTRY OF DEEDS ATTACHED TO DEED BOOK 73 AT PAGE 251.
 3. PLAN ENTITLED "LOT 6E, PORTION LOT 53, AP 4, SCALE: 1" = 100', DATED: MAY 1979, COMMERCE OIL REFINING CORP., BY ISLAND ENGINEERING," WHICH IS RECORDED IN THE TOWN OF JAMESTOWN REGISTRY OF DEEDS ATTACHED TO DEED BOOK 77 AT PAGE 431.
 4. PLAN ENTITLED "BAY VIEW PARK, CO-OWNED BY COMMERCE OIL REFINING CORP. & THE ESTATE OF FLORENCE E.B. WRIGHT, 32.5 ACRES, 14 LOTS, ZONED M-1, RR, & R-40, DESIGNED BY PETER L. RYAN, PE, PRELIMINARY PLAT FILED 7/20/77, FINAL PLAT FILED 9/7/77," WHICH IS RECORDED IN THE TOWN OF JAMESTOWN REGISTRY OF DEEDS AT HPF#8A.

THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO 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:



TYPE OF SURVEY: LIMITED CONTENT BOUNDARY SURVEY
 DATA ACCUMULATION SURVEY

MEASUREMENT SPECIFICATION: CLASS I
 CLASS III

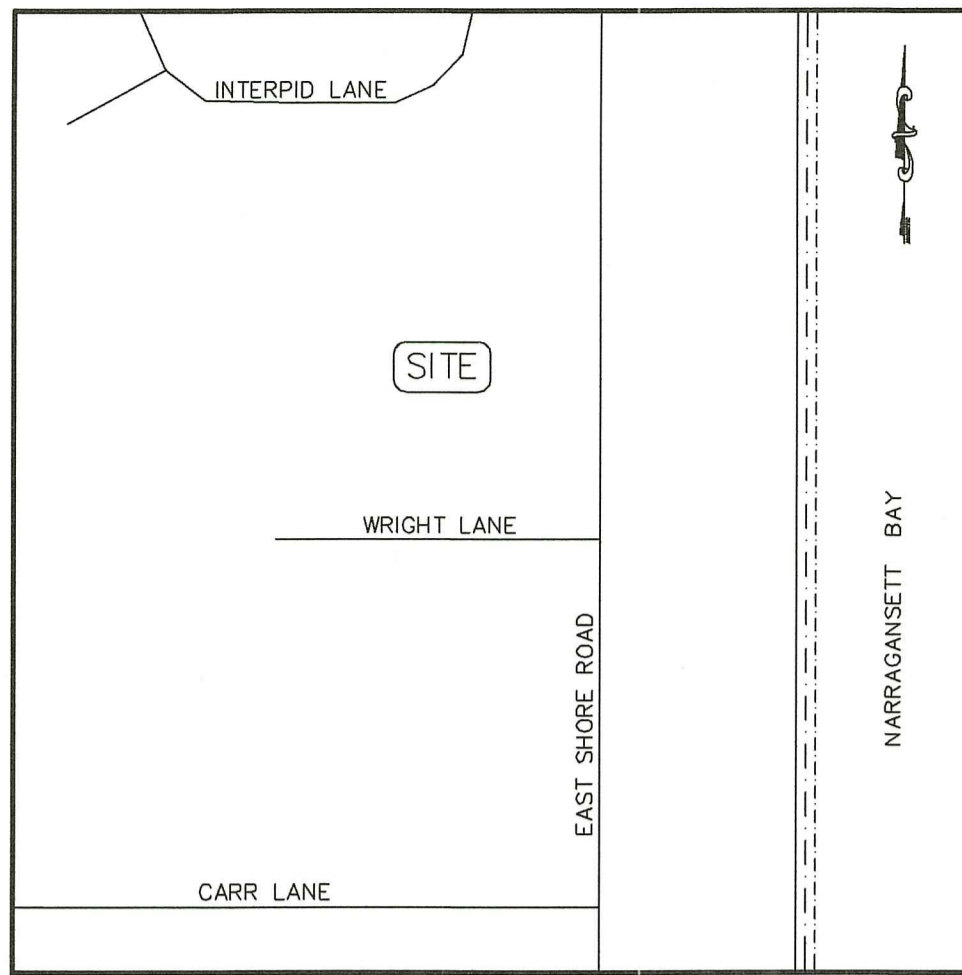
STATEMENT OF PURPOSE:
 THE PURPOSE FOR THE CONDUCT OF THE SURVEY AND FOR THE PREPARATION OF THE PLAN IS AS FOLLOWS:
 1) PREPARE A PROPERTY LINE PLAN.

BY: *Michael R. Darveau*
 MICHAEL R. DARVEAU, PLS#1978
 PRESIDENT, DARVEAU LAND SURVEYING, INC.

DATE: 1/15/23
 COA #LS-A497

R.I. DEM WETLAND SUBMITTAL PROPERTY LINE PLAN FOR KEVIN E. & MARIETTE B. MERRIGAN PLAT 4, LOT 126 543 EAST SHORE ROAD JAMESTOWN, RHODE ISLAND		SCALE: 1" = 60'	
		DRAWN BY: S.A.K.	
PROJECT NO: 2020_042	REVISED JAN. 18, 2023	THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO 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: TYPE OF SURVEY: LIMITED CONTENT BOUNDARY SURVEY DATA ACCUMULATION SURVEY MEASUREMENT SPECIFICATION: CLASS I CLASS III STATEMENT OF PURPOSE: THE PURPOSE FOR THE CONDUCT OF THE SURVEY AND FOR THE PREPARATION OF THE PLAN IS AS FOLLOWS: 1) PREPARE A PROPERTY LINE PLAN. BY: <i>Michael R. Darveau</i> MICHAEL R. DARVEAU, PLS#1978 PRESIDENT, DARVEAU LAND SURVEYING, INC. DATE: 1/15/23 COA #LS-A497	
SHEET NO: 1 OF 4	DATE: JUNE 15, 2022	R.I. Environmental Management FEB 22 2023 Office of Water Resources	

DARVEAU LAND SURVEYING, INC.
 P.O. BOX 7918
 CUMBERLAND, R.I. 02864
 PHONE 401-475-5700
 E-MAIL: MIKE@DARVEAUSURVEY.COM



LEGEND

PL	PROPERTY LINE
FND	FOUND
N/F	NOW OR FORMERLY
S.F.	SQUARE FEET
ELEV.	ELEVATION
APP.	APPLICATION
O.W.T.S.	ON-SITE WASTEWATER TREATMENT SYSTEM TEST HOLE
TH	TEST HOLE
UP	UTILITY POLE
GW	GUY WIRE

- GENERAL NOTES:**
1. THE PARCEL IS PLAT 4, LOT 126.
 2. THE TOTAL PARCEL AREA IS 467,490 S.F. OR 10.7321 ACRES.
 3. THE EXISTING DWELLING ADDRESS IS 543 EAST SHORE ROAD.
 4. SEE DEED BOOK 949 AT PAGE 223 FOR TITLE REFERENCE.
 5. THE BASIS OF BEARING SHOWN ON THIS PLAN WAS TAKEN FROM A MAGNETIC READING PERFORMED DURING SURVEY FIELD WORK ON DECEMBER 9, 2020.
 6. THE PARCEL IS SUBJECT TO AND/OR TOGETHER WITH ANY EASEMENTS, RESTRICTIONS OR COVENANTS OF RECORD.

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LOCUS
 NOT TO SCALE

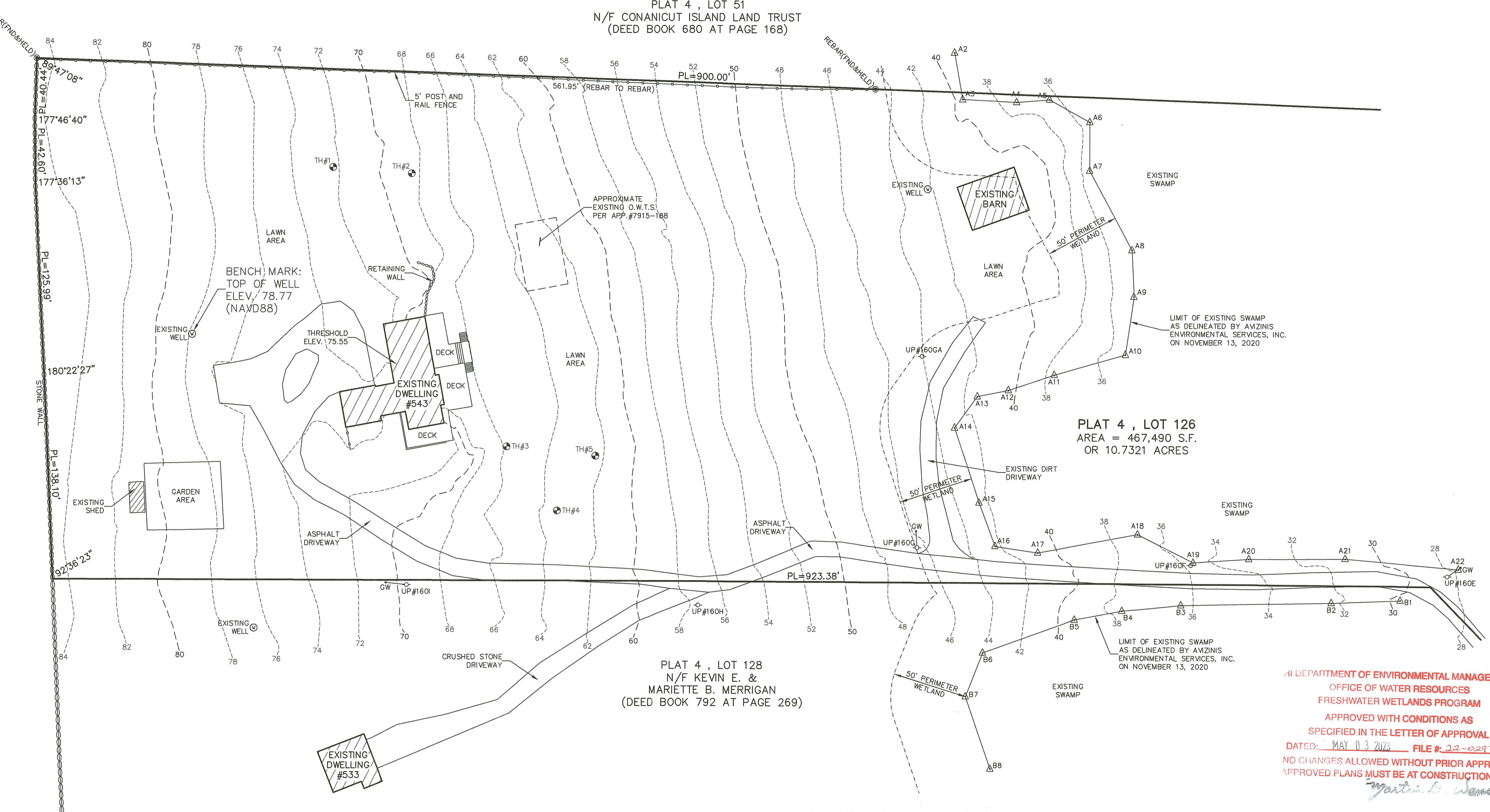
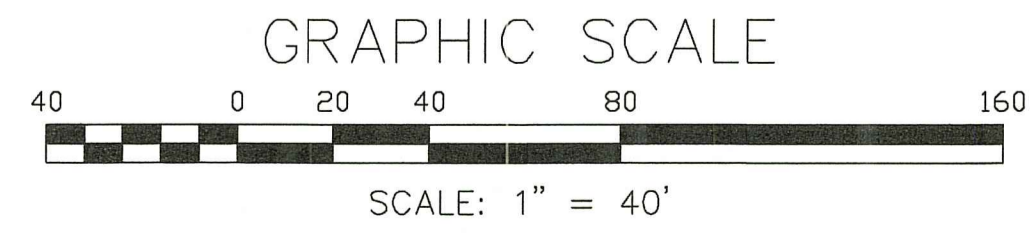
PLAT 4, LOT 51
 N/F CONANICUT ISLAND
 LAND TRUST
 (DEED BOOK 680
 AT PAGE 168)

PLAT 4, LOT 51
 N/F CONANICUT ISLAND LAND TRUST
 (DEED BOOK 680 AT PAGE 168)

PLAT 4, LOT 126
 AREA = 467,490 S.F.
 OR 10.7321 ACRES

PLAT 4, LOT 128
 N/F KEVIN E. &
 MARIETTE B. MERRIGAN
 (DEED BOOK 792 AT PAGE 269)

ZONING INFORMATION:
 THE PARCEL IS ZONED: RR-80.
 MINIMUM LOT AREA = 80,000 S.F.
 MINIMUM LOT FRONTAGE = 200 FEET
 MINIMUM BUILDING SETBACKS:
 FRONT YARD = 40 FEET
 SIDE YARD = 30 FEET
 REAR YARD = 40 FEET
 MAXIMUM LOT COVERAGE = 20%
 MAXIMUM BUILDING HEIGHT = 35 FEET



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS AS
 SPECIFIED IN THE LETTER OF APPROVAL
 DATED: MAY 13 2023 FILE #: 22-0297
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

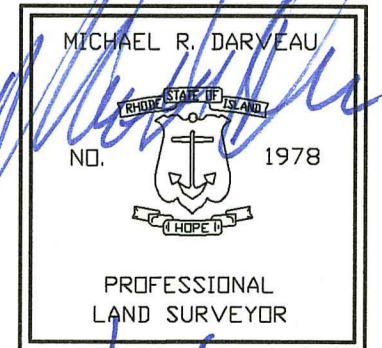
RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 NOTE PER DEM:
 Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site

THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO 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:

TYPE OF SURVEY:
 LIMITED CONTENT BOUNDARY SURVEY
 DATA ACCUMULATION SURVEY
 TOPOGRAPHIC ACCURACY

MEASUREMENT SPECIFICATION:
 CLASS III
 CLASS III
 T-2
 FEB 22 2023
 Office of Water Resources

STATEMENT OF PURPOSE:
 THE PURPOSE FOR THE CONDUCT OF THE SURVEY AND FOR THE PREPARATION OF THE PLAN IS AS FOLLOWS:
 1) PREPARE AN EXISTING CONDITIONS PLAN.



BY: *Michael R. Darveau*
 MICHAEL R. DARVEAU, PLS#1978
 PRESIDENT, DARVEAU LAND SURVEYING, INC.

DATE: 1/15/23
 COA #LS-A497

R.I. DEM WETLAND SUBMITTAL

EXISTING CONDITIONS PLAN FOR
KEVIN E. & MARIETTE B. MERRIGAN
 PLAT 4, LOT 126
 543 EAST SHORE ROAD
 JAMESTOWN, RHODE ISLAND

PROJECT NO:	2020_042	SCALE:	1" = 40'
REVISION:	JAN. 18, 2023	DRAWN BY:	S.A.K.
DATE:	JUNE 15, 2022		
SHEET NO:	2 OF 4		

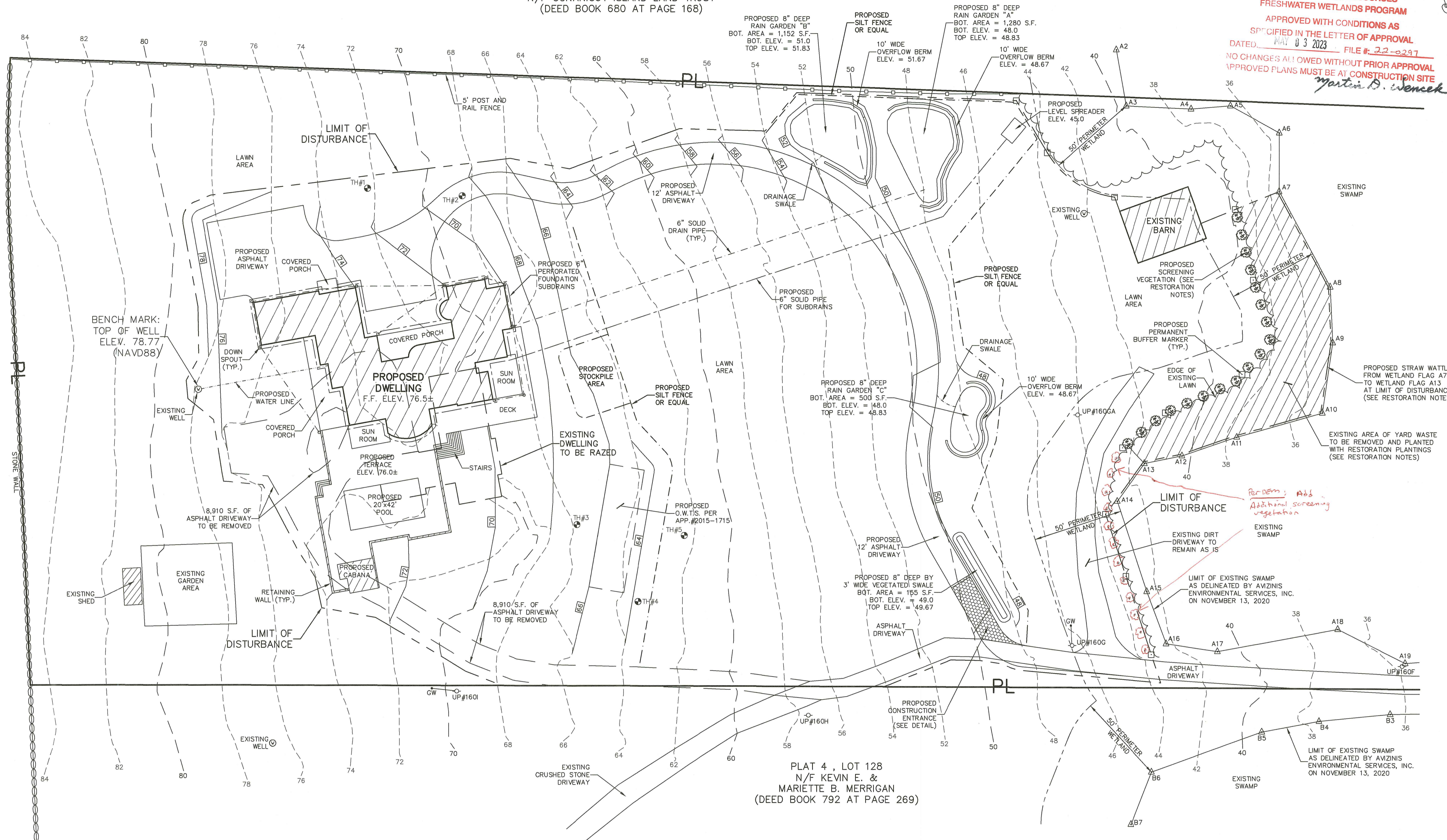
LEGEND

PL. PROPERTY LINE
 N/F. NOW OR FORMERLY
 S.F. SQUARE FEET
 ELEV. ELEVATION
 APP. APPLICATION
 O.W.T.S. ON-SITE WASTEWATER TREATMENT SYSTEM
 TH. TEST HOLE
 UP. UTILITY POLE
 GW. GUY WIRE
 F.F. FIRST FLOOR
 TYP. TYPICAL
 BOT. BOTTOM

PLAT 4, LOT 51
 N/F CONANICUT ISLAND LAND TRUST
 (DEED BOOK 680 AT PAGE 168)

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS AS
 SPECIFIED IN THE LETTER OF APPROVAL
 DATED MAY 03 2023 FILE # 22-0297
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Martin D. Wenczek

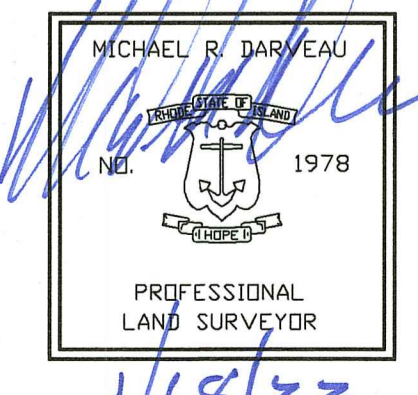
PLAT 4, LOT 51
 N/F CONANICUT ISLAND
 LAND TRUST
 (DEED BOOK 680
 AT PAGE 168)



PLAT 4, LOT 128
 N/F KEVIN E. &
 MARIETTE B. MERRIGAN
 (DEED BOOK 792 AT PAGE 269)

NOTE: THERE IS 8,910 S.F. OF EXISTING ASPHALT DRIVEWAY TO BE REMOVED. THE TOTAL AREA OF THE TERRACE, POOL AND CABANA IS 4,532 S.F., THEREFORE, NO STORMWATER RUNOFF CONTROLS ARE PROPOSED FOR THESE AREAS.

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



THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO 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:

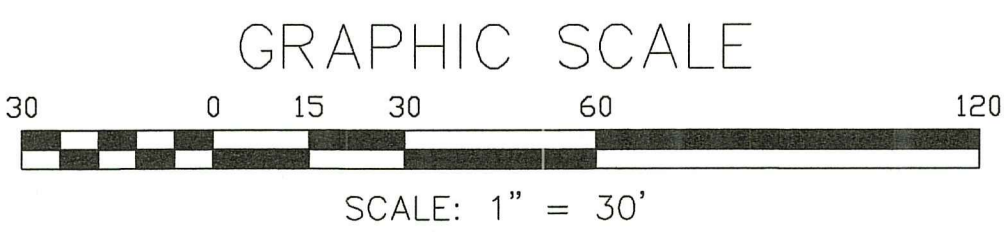
TYPE OF SURVEY:
 LIMITED CONTENT BOUNDARY SURVEY
 DATA ACCUMULATION SURVEY
 TOPOGRAPHIC ACCURACY

MEASUREMENT SPECIFICATION:
 CLASS III
 CLASS III
 T-2

STATEMENT OF PURPOSE:
 THE PURPOSE FOR THE CONDUCT OF THE SURVEY AND FOR THE PREPARATION OF THE PLAN IS AS FOLLOWS:
 1) PREPARE A PROPOSED SITE PLAN.

BY: *Michael R. Darveau*
 MICHAEL R. DARVEAU, PLS#1978
 PRESIDENT, DARVEAU LAND SURVEYING, INC.

DATE: 1/18/23
 COA #LS-A497



R.I. DEM WETLAND SUBMITTAL

PROPOSED SITE PLAN FOR
 KEVIN E. & MARIETTE B. MERRIGAN
 PLAT 4, LOT 126
 543 EAST SHORE ROAD
 JAMESTOWN, RHODE ISLAND

PROJECT NO: 2020_042
 SHEET NO: 3 OF 4

SCALE: 1" = 30'
 DRAWN BY: S.A.K.

REVISED: JAN. 18, 2023
 DATE: JUNE 15, 2022

DARVEAU LAND SURVEYING, INC.
 P.O. BOX 7918
 CUMBERLAND, R.I. 02864
 PHONE 401-475-5700
 E-MAIL: MIKE@DARVEAUSURVEY.COM

SEDIMENTATION AND EROSION CONTROL:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL TEMPORARY SEDIMENTATION & EROSION CONTROL.
2. EMBANKMENT SLOPES & ALL DISTURBED AREAS ARE TO RECEIVE A LAYER OF TOPSOIL (LOAM) AND SEED.
3. IMMEDIATELY UPON COMPLETION OF THE CLEARING AND GRUBBING AND PRIOR TO ANY ROUGH GRADING, A TEMPORARY SILT FENCE OR HAY BALES SHALL BE PLACED AT THE LIMIT OF PERMANENT DISTURBANCE PER PLAN.
4. ALL EROSION & SEDIMENTATION CONTROL SHALL BE PERIODICALLY MAINTAINED DURING BUILDING CONSTRUCTION BY THE CONTRACTOR.

EROSION & SOIL STABILIZATION PROGRAM:

1. TEMPORARY TREATMENTS SHALL CONSIST OF A SILT FENCE, HAY BALES OR PROTECTIVE COVERS SUCH AS FABRIC MATS.
2. THE SILT FENCE OR TEMPORARY PROTECTION SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED COVER IS ESTABLISHED.
3. NORMAL ACCEPTABLE SEASONAL SEEDING DATES ARE APRIL 1 – OCT. 15.
4. ALL FILL, IF REQUIRED, SHALL BE CLEAN AND THOROUGHLY COMPACTED UPON PLACEMENT IN STRICT CONFORMANCE WITH RIDPW STANDARD SPECIFICATION SECTION 202.

SEDIMENTATION CONTROL PROGRAM:

1. A TEMPORARY SILT FENCE, HAY BALES OR PROTECTIVE COVER SHALL BE INSTALLED PRIOR TO CONSTRUCTION & SHALL BE MAINTAINED ON A DAILY BASIS. IN ADDITION TO THE LINE OF THE SILT FENCE AT THE LIMIT OF PERMANENT DISTURBANCE, TEMPORARY BARRIERS SHALL BE CONSTRUCTED AT THE TOE OF THE DISTURBED (CUT OR FILL) SLOPES UNTIL VEGETATIVE COVER HAS BEEN ESTABLISHED.
2. ALL HAY BALES USED WITH THE SILT FENCE ARE TO HAVE TWO STAKES DRIVEN INTO EACH HAY BALE.
3. THE SILT FENCE AND HAY BALES ARE TO BE INSPECTED DAILY AND REPLACED AS NEEDED.
4. ALL SEDIMENTATION AND EROSION CONTROLS MUST BE INSTALLED AND PASS THE TOWN'S INSPECTION PRIOR TO ANY CONSTRUCTION WORK.
5. DURING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ADEQUATE DRAINAGE FLOW DURING STORMS AND PERIODS OF RAINFALL.
6. SEDIMENTATION CONTROL DEVICES SHALL BE INSPECTED CLOSELY AND MAINTAINED PROMPTLY AFTER EACH RAINFALL.

SLOPE STABILIZATION AND VEGETATION:

1. THE SILT FENCE OR HAY BALES SHALL BE PLACED AT THE TOE OF ALL DISTURBED SLOPES. THIS SHALL BE MAINTAINED AS A SEDIMENT BARRIER UNTIL THE SLOPES ARE STABILIZED WITH GRASS.
2. THE DISTURBED SLOPES (CUT OR FILL) SHALL BE IMMEDIATELY MULCHED AS AN EROSION PROTECTION MEASURE.
3. MAINTAIN MULCH UNTIL THE SLOPES ARE STABILIZED WITH A SATISFACTORY GROWTH OF GRASS.
4. VEGETATION REMOVED MAY BE SHREDDED AND CHIPPED ON SITE FOR USE AS MULCH, OR IT MAY BE REMOVED FROM THE SITE AND DISPOSED OF IN A LEGAL MANNER.
5. THE RESEEDING OF THE DISTURBED SLOPES SHALL BE CONDUCTED WITH SEED MATERIALS SELECTED FOR PRODUCTION OF A QUICK COVER AND HARDY STAND. PARTICULARLY A CONSERVATION GRASS SEED OR COMPARABLE. THE SEEDING SHALL BE IN ACCORDANCE WITH COMMON NURSERY PRACTICE IN THE RHODE ISLAND AREA.
6. PROVIDED THAT THE PROVISIONS OF THE SEDIMENTATION & EROSION CONTROL PLAN ARE IMPLEMENTED, THERE WILL BE NO ADVERSE ENVIRONMENTAL EFFECTS FROM THE PROPOSED CONSTRUCTION.

SIZING CALCULATION FOR RAIN GARDEN "A" PER RHODE ISLAND STORMWATER MANAGEMENT GUIDANCE DOCUMENT FOR INDIVIDUAL SINGLE-FAMILY RESIDENTIAL LOT DEVELOPMENT – TABLE 8: RAIN GARDEN SIZING GUIDANCE

- * RAIN GARDEN "A" IS FOR RUN-OFF FROM THE PROPOSED DWELLING.
- * PROPOSED IMPERVIOUS AREA = 8,000 S.F.
- * RAIN GARDEN "A" DEPTH = 8 INCHES
- * SOIL TYPE: SILTY SOILS = 0.16 SIZING FACTOR (1-INCH STORM EVENT)
- * 8,000 S.F. X 0.16 = 1,280 S.F. RAIN GARDEN REQUIRED
- * PROPOSED RAIN GARDEN "A" BOTTOM AREA = 1,280 S.F.

SIZING CALCULATION FOR RAIN GARDEN "B" PER RHODE ISLAND STORMWATER MANAGEMENT GUIDANCE DOCUMENT FOR INDIVIDUAL SINGLE-FAMILY RESIDENTIAL LOT DEVELOPMENT – TABLE 8: RAIN GARDEN SIZING GUIDANCE

- * RAIN GARDEN "B" IS FOR RUN-OFF FROM THE PROPOSED ASPHALT DRIVEWAY.
- * PROPOSED IMPERVIOUS AREA = 7,200 S.F.
- * RAIN GARDEN "B" DEPTH = 8 INCHES
- * SOIL TYPE: SILTY SOILS = 0.16 SIZING FACTOR (1-INCH STORM EVENT)
- * 7,200 S.F. X 0.16 = 1,152 S.F. RAIN GARDEN REQUIRED
- * PROPOSED RAIN GARDEN "B" BOTTOM AREA = 1,152 S.F.

SIZING CALCULATION FOR RAIN GARDEN "C" PER RHODE ISLAND STORMWATER MANAGEMENT GUIDANCE DOCUMENT FOR INDIVIDUAL SINGLE-FAMILY RESIDENTIAL LOT DEVELOPMENT – TABLE 8: RAIN GARDEN SIZING GUIDANCE

- * RAIN GARDEN "C" IS FOR RUN-OFF FROM THE PROPOSED ASPHALT DRIVEWAY.
- * PROPOSED IMPERVIOUS AREA = 3,040 S.F.
- * RAIN GARDEN "C" DEPTH = 8 INCHES
- * SOIL TYPE: SILTY SOILS = 0.16 SIZING FACTOR (1-INCH STORM EVENT)
- * 3,040 S.F. X 0.16 = 487 S.F. RAIN GARDEN REQUIRED
- * PROPOSED RAIN GARDEN "C" BOTTOM AREA = 500 S.F.

RAIN GARDEN NOTES:

1. RAIN GARDENS SHALL BE INSPECTED FOLLOWING AT LEAST THE FIRST TWO (2) PRECIPITATION EVENTS OF AT LEAST 1.0 INCH TO ENSURE THAT THE SYSTEMS ARE FUNCTIONING PROPERLY. THEREAFTER, THE RAIN GARDENS SHALL BE MONITORED AND MAINTAINED TO ASSURE PROPER FUNCTIONING PLANT GROWTH AND SURVIVAL. PLANTS SHALL BE REPLACED ON AN AS-NEEDED BASIS DURING THE GROWING SEASON.
2. SILT/SEDIMENT SHALL BE REMOVED FROM THE RAIN GARDENS WHEN THE ACCUMULATED SEDIMENT EXCEEDS ONE (1) INCH, OR WHEN WATER PONDS FOR MORE THAN 48 HOURS. THE TOP FEW INCHES OF MATERIAL SHALL BE REMOVED AND REPLACED WITH FRESH SOIL MIXTURE AND MULCH.
3. PRUNING OR REPLACEMENT OF WOODY VEGETATION SHALL OCCUR WHEN DEAD OR DYING VEGETATION IS OBSERVED.
4. SOIL EROSION GULLIES SHALL BE REPAIRED WHEN THEY OCCUR.
5. FERTILIZER OR PESTICIDES SHALL NOT BE APPLIED TO PLANTS WITHIN RAIN GARDENS.
6. PERENNIAL PLANTS AND GROUND COVERS SHALL BE REPLACED AS NECESSARY TO MAINTAIN AN ADEQUATE VEGETATED GROUND COVER. ANNUAL PLANTS MAY ALSO BE USED TO MAINTAIN GROUND COVER.
7. THE PROPOSED PLANTINGS FOR THE RAIN GARDENS SHALL BE SUITABLE NATIVE PLANTS USED IN ACCORDANCE WITH THE RHODE ISLAND COASTAL PLANT GUIDE, WHICH IS LOCATED AT CELLS.URL.EDU/TESTSITE/COASTALPLANTS/COASTALPLANTGUIDE.HTM
8. THE RAIN GARDENS SHALL BE PHYSICALLY DELINEATED PRIOR TO THE START OF CONSTRUCTION TO PREVENT ADDITIONAL COMPACTION.

SIZING CALCULATION FOR VEGETATED SWALE PER RHODE ISLAND STORMWATER MANAGEMENT GUIDANCE DOCUMENT FOR INDIVIDUAL SINGLE-FAMILY RESIDENTIAL LOT DEVELOPMENT – TABLE 5: VEGETATED SWALE SIZING GUIDANCE

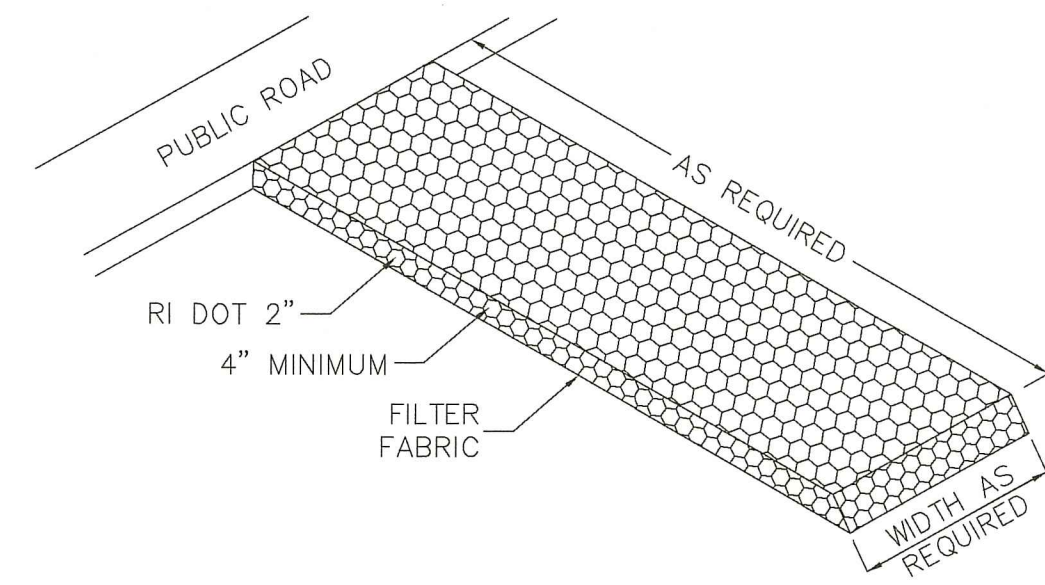
- * VEGETATED SWALE IS FOR RUN-OFF FROM THE PROPOSED ASPHALT DRIVEWAY.
- * PROPOSED IMPERVIOUS AREA = 960 S.F.
- * VEGETATED SWALE DEPTH = 8 INCHES
- * SOIL TYPE: SILTY SOILS = 0.16 SIZING FACTOR (1-INCH STORM EVENT)
- * 960 S.F. X 0.16 = 154 S.F. SWALE REQUIRED
- * PROPOSED VEGETATED SWALE BOTTOM AREA = 155 S.F.

VEGETATED SWALE NOTES:

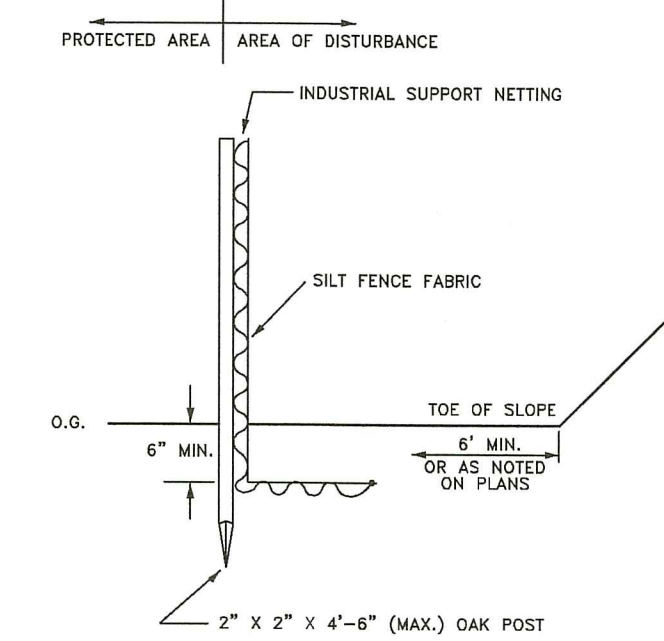
1. VEGETATED SWALES SHALL HAVE MODERATE SIDE SLOPES FLATTER THAN 3:1 FOR MOST CONDITIONS.
2. VEGETATED SWALES SHALL HAVE A MAXIMUM LONGITUDINAL SLOPE OF 4% (E.G. 4 FOOT DROP OVER A HORIZONTAL DISTANCE OF 100 FEET).
3. VEGETATED SWALES SHALL BE INSPECTED ANNUALLY AND SHOULD BE INSPECTED AFTER LARGE STORM EVENTS.
4. ERODED SIDE SLOPES AND CHANNEL BOTTOMS SHALL BE STABILIZED AS NECESSARY.
5. IF THE SURFACE OF THE VEGETATED SWALE BECOMES CLOGGED 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 HARD-PACKED SEDIMENT, AND THEN RESEEDED.
6. VEGETATION IN SWALES SHALL BE MOWED AS REQUIRED TO MAINTAIN MINIMUM GRASS HEIGHTS IN THE 4-6 INCHES RANGE.
7. EVERY FIVE YEARS, THE CHANNEL BOTTOM SHOULD BE SCRAPED TO REMOVE SEDIMENT AND TO RESTORE ORIGINAL CROSS SECTION AND INFILTRATION RATE, AND SHOULD BE SEED TO RESTORE GROUND COVER, WHERE NECESSARY.
8. GRASSES OR SEDGES ARE TYPICALLY USED IN VEGETATED SWALES, BUT OTHER NATIVE PLANTS CAN BE USED IN ACCORDANCE WITH THE RHODE ISLAND COASTAL PLANT GUIDE, WHICH IS LOCATED AT CELLS.URL.EDU/TESTSITE/COASTALPLANTS/COASTALPLANTGUIDE.HTM.
9. THE VEGETATED SWALE SHALL BE PHYSICALLY DELINEATED PRIOR TO THE START OF CONSTRUCTION TO PREVENT ADDITIONAL COMPACTION.

RESTORATION NOTES:

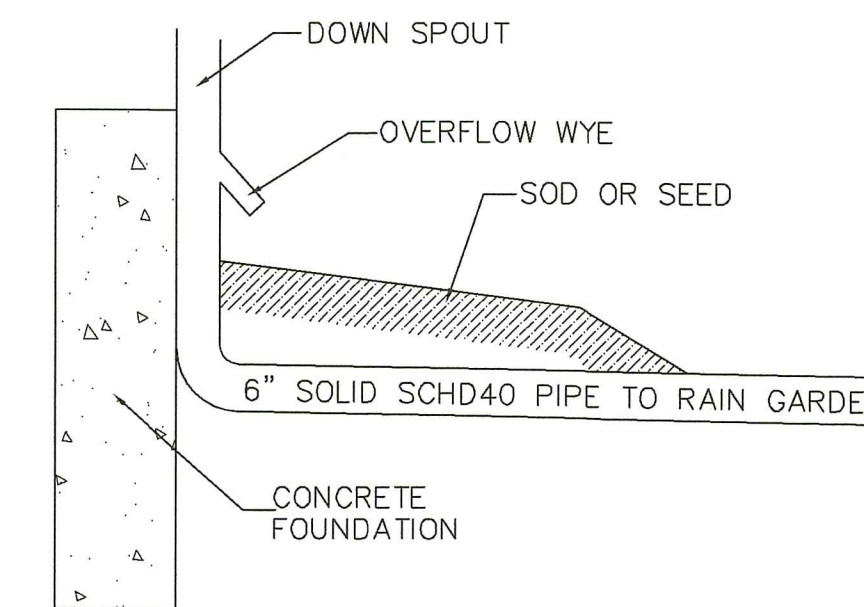
1. PRIOR TO COMMENCEMENT OF RESTORATION WORK, A LINE OF 100% COMPOSTABLE STRAW WATTLE SHALL BE INSTALLED ALONG THE WETLAND EDGE BETWEEN WETLAND FLAGS A7 AND A13. THESE SHALL REMAIN IN PLACE AND IN GOOD CONDITION THROUGHOUT THE RESTORATION PROCESS.
2. RESTORATION WORK SHALL BE OVERSEEN BY A QUALIFIED WETLAND PROFESSIONAL.
3. ALL EXISTING CUT ORGANIC DEBRIS SHALL BE REMOVED FROM THE AREA AND DISPOSED OF PROPERLY OUTSIDE OF DEM JURISDICTION WITH THE EXCEPTION OF SELECT LARGER BRANCHES TO PROVIDE HABITAT STRUCTURE.
4. ALL BARE SOIL SHALL BE IMMEDIATELY TOPPED WITH WILDLIFE CONSERVATION NATIVE SEED MIX AND TOPPED WITH A LOOSE STRAW MULCH.
5. SHRUB AND TREE PLANTINGS SHALL BE INSTALLED IN THE SPRING BETWEEN MAY 1 AND JUNE 15.
6. SHRUB SPECIES SHALL BE PLANTED 5- FEET ON CENTER AND SHALL BE 24-36 INCHES IN HEIGHT AFTER PLANTING. SPECIES SHALL INCLUDE A NON-RANDOM CLUMPED DISTRIBUTION OF:
SWEET PEPPERBUSH (CLETHRA ALNIFOLIA)
HIGHBUSH BLUEBERRY (VACCINIUM CORYMBOSUM), AND
WINTERBERRY (ILEX VERTICILLATA)
7. TREE SPECIES SHALL BE PLANTED INTERSPERSED 10- FEET ON CENTER AND BE 1-INCH CALIPER DBH. SPECIES SHALL INCLUDE A RANDOM MIX OF:
RED MAPLE (ACER RUBRUM), AND
BLACK GUM (NYSSA SYLVATICA)
8. ADDITIONALLY SCREENING VEGETATION SHALL BE PLANTED SPACED 10- FEET ON CENTER AND BE 1-INCH CALIPER DBH., ALONG THE RESTORATION AREA AS SHOWN ON THE PLAN. THESE SHALL CONSIST OF WHITE SPRUCE (PICEA GLAUCA) WHICH WILL SERVE TO CREATE A DENSE, EVERGREEN BARRIER BETWEEN THE BUFFER ZONE AND UPLAND DEVELOPED AREAS.
9. TREES AND SHRUBS SHALL BE MULCHED AROUND THE BASE BUT NOT ELSEWHERE ON THE IN THE RESTORATION AREA TO ALLOW NATIVE SEED MIX TO GERMINATE AND THRIVE. NO FUTURE CLEARING, MOWING, CUTTING OR TRIMMING OF RESTORED AREAS SHALL OCCUR.
10. A MONITORING REPORT WITH PHOTOGRAPHS SHALL BE PREPARED AND SUBMITTED TO DEM AT THE CONCLUSION OF THE RESTORATION WORK.
11. PROPOSED PERMANENT BUFFER ZONE MARKERS ARE TO BE PLACED AS SHOWN ON THE PROPOSED SITE PLAN AND ARE TO BE 4"x4" (MIN.) PRESSURE TREATED LUMBER SET 18"-24" ABOVE GRADE.



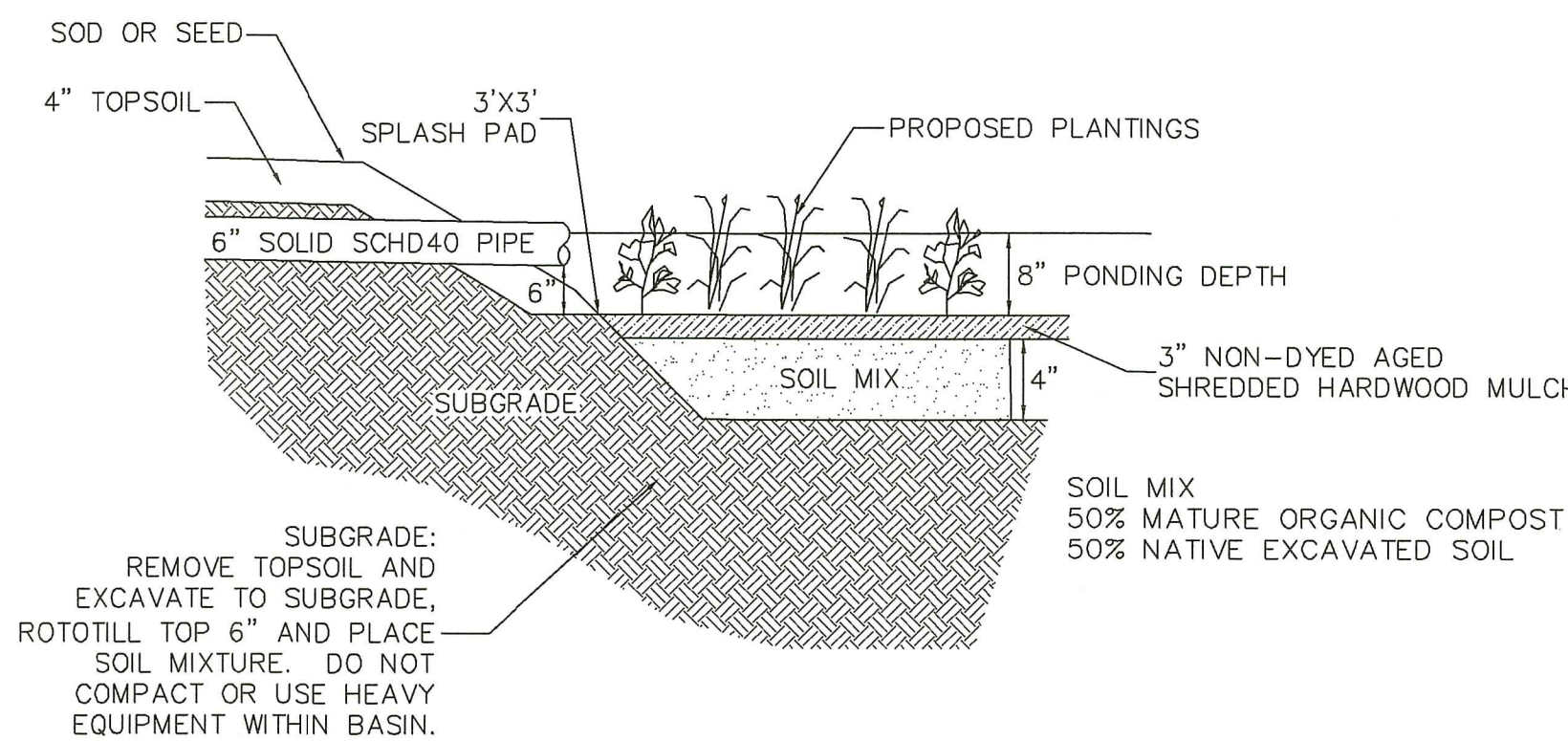
CONSTRUCTION PAD DETAIL
NOT TO SCALE



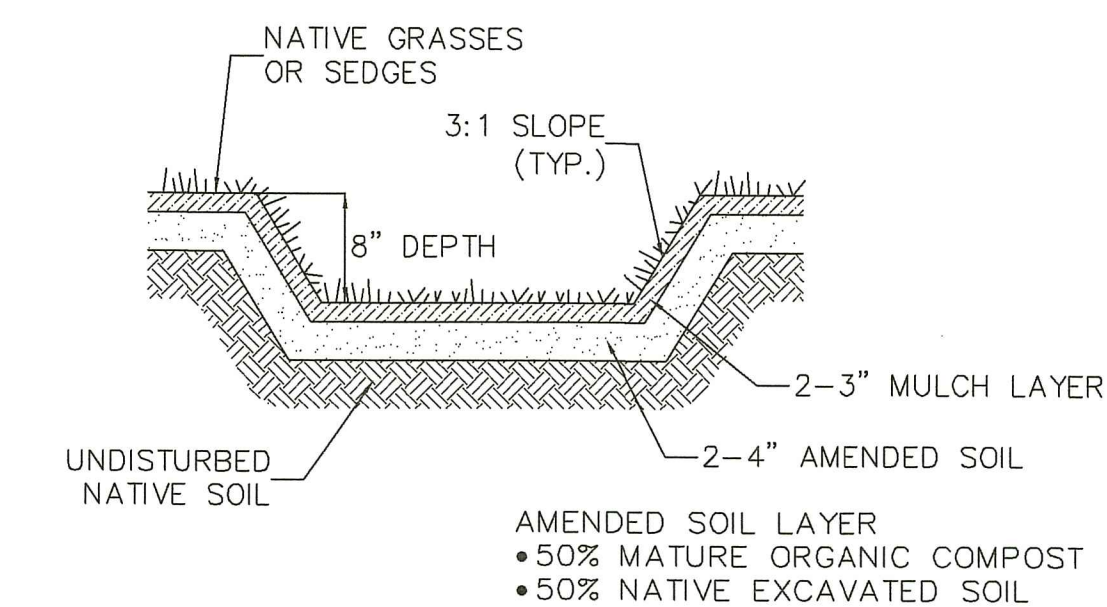
SILT FENCE DETAIL
NOT TO SCALE



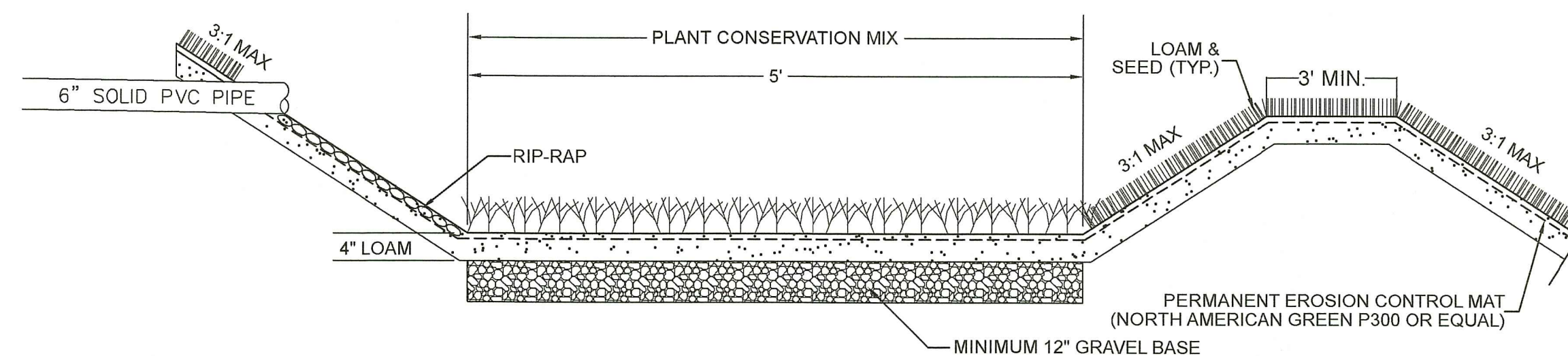
OVERFLOW WYE DETAIL
NOT TO SCALE



RAIN GARDEN CROSS-SECTION
NOT TO SCALE



VEGETATED SWALE CROSS-SECTION
NOT TO SCALE



LEVEL SPREADER DETAIL
NOT TO SCALE

DARVEAU LAND SURVEYING, INC.
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R.I. DEM WETLAND SUBMITTAL

PROPOSED SITE PLAN FOR
KEVIN E. & MARIETTE B. MERRIGAN
PLAT 4, LOT 126
543 EAST SHORE ROAD
JAMESTOWN, 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: 03/2023 FILE # 22-0297
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

MICHAEL R. DARVEAU
NO. 1978
PROFESSIONAL
LAND SURVEYOR

Environmental Management
FEB 22 2023
Office of Water Resources

PROJECT NO:	2020_042	REVISION:	JAN. 18, 2023	SCALE:	AS NOTED	DRAWN BY:	S.A.K.
SHEET NO:	4 OF 4	DATE:	JUNE 15, 2022				