

LOCATION MAP

THIS PLAN HAS BEEN PREPARED FOR THE DRAINAGE AND SOIL EROSION & SEDIMENTATION CONTROL REQUIREMENTS FOR THE DEVELOPMENT OF THE PROPOSED SINGLE FAMILY DWELLING. THIS IS NOT THE BUILDING PERMIT PLOT PLAN. REFER TO OTHER PLANS PREPARED BY OTHERS FOR OTHER ELEMENTS OF CONSTRUCTION SUCH AS SURVEY BOUNDARY, TOPOGRAPHY CERTIFICATION, BUILDING DETAILS, FOUNDATION DRAINAGE, TOP OF FOUNDATION AND

WETLAND PERMIT IF APPLICABLE.

2. CONTRACTOR TO COORDINATE THIS PLAN SET WITH OTHER PLANS.

3. DO NOT ALLOW SEDIMENT LAIDEN RUNOFF TO ENTER THE STORMWATER RAIN GARDENS.

4. ALL CONSTRUCTION OF THE DRAINAGE COMPONENTS SHALL BE IN ACCORDANCE WITH THE 'RHODE ISLAND STORMWATER DESIGN AND INSTALLATION STANDARDS MANUAL, AS AMENDED.
 5. FLOOD ZONE: THE SUBJECT PROPERTY IS NOT SITUATED IN THE 100—YEAR FLOOD ZONE AS IDENTIFIED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD RATE INSURANCE MAP, PROVIDENCE COUNTY, PANEL 187 OF 451, MAP #44007C0187H, EFFECTIVE OCTOBER 02, 2016.

PROPERTY LINE INFORMATION FOR SUBJECT PROPERTY TAKEN OFF TOWN PLAT MAPS AND IS APPROXIMATE. SUBJECT PROPERTY IS SERVED BY PUBLIC WATER, DESIGN & PERMITS BY OTHERS. SUBJECT PROPERTY IS SERVED BY PUBLIC SEWER SYSTEM, DESIGN & PERMITS BY OTHERS. CONTRACTOR TO COORDINATE THIS PLAN WITH ARCHITECTURAL/FOUNDATION PLANS PREPARED BY OTHERS. ANY

DISCREPANCIES SHOULD BE BROUGHT TO THE ENGINEERS ATTENTION PRIOR TO CONSTRUCTION.

10. SOILS ARE CeC (CANTON AND CHARLTON FINE SANDY LOAMS) AS IDENTIFIED ON THE RHODE ISLAND SURVEY OF RHODE ISLAND 1981. HYDROLOGIC GROUP IS 'B' AND THE SUBSTRATUM IS A ROCKY FINE SANDY LOAM.

11. EXISTING UTILITIES OR CONNECTIONS — THE LOCATION OF EXISTING UNDERGROUND PIPES, CONDUITS, AND STRUCTURES AS SHOWN HAS BEEN COLLECTED FROM THE BEST AVAILABLE SOURCES, AND THE OWNER, TOGETHER WITH HIS AGENTS, DOES NOT IMPLY OR GUARANTEE THE DATA AND INFORMATION IN CONNECTION WITH UNDERGROUND PIPES, CONDUITS, STRUCTURES, AND SUCH OTHER PARTS, AS TO THEIR COMPLETENESS, NOR THEIR LOCATIONS AS INDICATED. THE CONTRACTOR SHALL ASSUME THAT THERE ARE EXISTING WATER, GAS AND OTHER UTILITY

INDICATED. THE CONTRACTOR SHALL ASSUME THAT THERE ARE EXISTING WATER, GAS AND OTHER UTILITY CONNECTIONS IN ROUTE, WHETHER THEY APPEAR ON THE DRAWINGS OR NOT. ANY EXPENSE AND/OR DELAY OCCASIONED BY UTILITIES AND STRUCTURES OR DAMAGE THERETO, INCLUDING THOSE NOT SHOWN, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, AT NO ADDITIONAL EXPENSE TO THE OWNER. BEFORE PROCEEDING WITH CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL MAKE SUCH SUPPLEMENTAL INVESTIGATIONS, INCLUDING EXPLORATORY EXCAVATIONS BY HAND DIGGING, AS HE DEEMS NECESSARY TO UNCOVER AND DETERMINE THE EXACT LOCATIONS OF UTILITIES AND STRUCTURES AND SHALL HAVE NO CLAIMS FOR DAMAGES DUE TO ENCOUNTERING SUBSURFACE STRUCTURES OR UTILITIES IN LOCATIONS OTHER THAN THOSE SHOWN ON THE DRAWINGS, OR WHICH ARE MADE KNOWN TO THE CONTRACTOR PRIOR TO CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE AND LIABLE FOR ALL DAMAGES TO EXISTING UTILITIES AND STRUCTURES.

INSTALL ALL PRODUCTS/EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

EROSION CONTROL NARRATIVE:

PROJECT DESCRIPTION: THE DEVELOPMENT CONSISTS OF THE CONSTRUCTION OF A SINGLE FAMILY DWELLING WHICH INCLUDES CONSTRUCTION OF VEGETATED SWALES AND MISCELLANEOUS APPURTENANT ITEMS.

TOTAL LAND DISTURBANCE = $17,945\pm$ SQ. FT. 2016.

BASE FLOOD ELEVATION: THE SITE LIES OUTSIDE 100—YEAR FLOOD ZONE. REFERENCE FEMA FLOOD INSURANCE RATE MAP, PROVIDENCE COUNTY, PANEL 187 OF 451, MAP #44007C0187H, EFFECTIVE OCTOBER 02, 2016.

PROPOSED DRAINAGE SYSTEM: TWO VEGETATED SWALES ARE REQUIRED TO MITIGATE STORMWATER QUALITY.

EMERGENCY PHONE NUMBERS: CONTACT OWNER FOR IMMEDIATE ATTENTION.

SOIL EROSION AND SEDIMENT CONTROL MEASURES:
SHALL BE PROTECTED WITH SILT FENCE AND/OR COMPOST FILTER SOCK AS SHOWN ON THE PLANS/DETAILS.
ALL SOIL STOCK PILE AREAS SHALL BE PROTECTED FROM SOIL EROSION AS SHOWN ON THE DETAIL.
STABILIZE ALL DISTURBED AREAS AS SOON AS POSSIBLE WITH GRASS SEED OR A 2 INCH LAYER OF WOOD MULCH. ALL CATCH BASINS IN THE IMMEDIATE VICINITY OF SITE SHALL BE PROTECTED AGAINST SOIL
EROSION. ALL CONSTRUCTION VEHICLES ENTERING PROPERTY SHALL TRAVEL OVER A 'CONSTRUCTION ACCESS' ENTRANCE WHICH IS CONSTRUCTED IN ACCORDANCE WITH DETAIL.

TREES/STUMPS/TOPSOIL: ALL TREES/STUMPS SHALL BE REMOVED AND DISPOSED OFF SITE. BURIAL OF TREES/STUMPS IS NOT PERMITTED. ALL TOPSOIL ON SITE SHALL REMAIN ON—SITE UNLESS APPROVED BY

SCHEDULE: WORK IS ANTICIPATED TO COMMENCE IN SUMMER 2025 AND BE COMPLETED BY SPRING 2026.

SEQUENCE AND STAGING OF LAND DISTURBING ACTIVITIES:

1. PLACE PERIMETER SEDIMENTATION CONTROL DEVICES (HAYBALE OR SILT FENCE) AS SHOWN ON THE PLANS AND STAKED OUT IN THE FIELD. IN NO CASE IS THE LIMIT OF WORK TO EXTEND BEYOND THE SEDIMENTATION CONTROL

DEVICES.
2. CONSTRUCT CONSTRUCTION ENTRANCE DEVICES 9.9.0.

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 CLEAR AND GRUB SITE AND DEMO EXISTING DWELLING.
 BEGIN CONSTRUCTION OF NEW DWELLING (EXCAVATING AND GRADING, ETC.). ALL STRIPPED SOILS WHICH ARE

STOCKPILED SHALL BE STOCKPILED AND PROTECTED BY A ROW OF SEDIMENTATION DEVICES, REFER TO DETAIL.

5. CONSTRUCT UTILITIES IF APPLICABLE (GAS, WATER, SEWER, ELECTRIC, STORM DRAINS, ETC...)

7. CONSTRUCT DRIVEWAY.

8. CONSTRUCT RAIN GARDENS.

ALL DISTURBED AREAS SHALL BE LOAMED AND SEEDED.
 REMOVE TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES WHEN SITE IS STABILIZED.

GRADING & DRAINAGE NOTES:

CONTRACTOR TO FINE GRADE LOTS IN ACCORDANCE WITH STATE OF RHODE ISLAND ONE AND TWO FAMILY DWELLING CODE. LOTS SHALL BE GRADED SO THAT ADDITIONAL ACCUMULATION OF SURFACE WATER DOES NOT OCCUR ACROSS ADJOINING PROPERTY. SURFACE DRAINAGE SHALL BE DIVERTED TO A STORM SEWER CONVEYANCE OR OTHER POINT OF COLLECTION SO AS NOT TO CREATE A HAZARD. LOTS SHALL BE GRADED SO AS TO DRAIN SURFACE WATER AWAY FROM FOUNDATION WALLS. THE GRADE AWAY FROM FOUNDATION WALLS SHALL FALL A MINIMUM OF 6" WITHIN THE FIRST 10 FEET. IMPERVIOUS SUFACES (DRIVEWAY) SHALL BE SLOPED AWAY FROM HOUSE AT A SLOPE OF 2% FOR AT LEAST 10 FEET.

3. FINE GRADE ROOF DOWNSPOUT RUNOFF TO VEGETATED SWALE.
4. FINE GRADE DRIVEWAY RUNOFF TO VEGETATED SWALE.

REFERENCE:

REFERENCE IS MADE TO PLAN ENTITLED "LIMITED CONTENT BOUNDARY AND EXISTING CONDITIONS SURVEY CLASS 1 AND CLASS III PREPARED FOR MAP 31 LOT 145 0 GREAT ROAD IN LINCOLN, RI' PREPARED BY COMMONWEALTH LAND SURVEYORS, INC. DATED 07/02/2024

COMMONWEALTH LAND SURVEYORS, INC, DATED 07/02/2024.			4: 7.
	LEGE	ND). - 1 8
A.P. BASM'T B.H. BIT. B.S.L. CB C.O. CONC. DMH EL. OR ELEV. EP. EXIST. FES F.F. GAR. G.A. INV. IP MIN. N/F S SMH S.D. TH TOF TYP	ASSESSORS PLAT BASEMENT BULKHEAD BITUMINOUS CONRETE BUILDING SETBACK LINE CATCH BASIN CLEANOUT CONCRETE DRAIN MANHOLE ELEVATION EDGE OF PAVEMENT EXISTING FLARED END SECTION FINISH FLOOR ELEVATION GARAGE GAS GATE INVERT INSPECTION PIPE MINIMUM NOW OR FORMERLY SLOPE SANITARY MANHOLE SUBDRAIN TEST HOLE TOP OF FOUNDATION TYPICAL	SUBJECT PROPERTY LINE ABUTTING PROPERTY LINE BUILDING SETBACK LINE EXISTING ELEVATION CONTOUR PROPOSED ELEVATION CONTOUR EXIST. ELECTRIC LINE EXIST. DRAIN LINE EXIST. WATER LINE EXIST. SANITARY SEWER LINE EXIST. GAS LINE EXIST. OVERHEAD WIRE PROPOSED GAS LINE (BY OTHERS) PROPOSED SEWER LINE (BY OTHERS) PROPOSED WATER LINE (BY OTHERS) PROPOSED ROOF DRAIN SILT FENCE & LIMIT OF DISTURB. LIMIT OF DISTURBANCE STONEWALL EXISTING SPOT GRADE PROPOSED SPOT GRADE TREELINE EXISTING SANITARY MANHOLE WETLAND FLAG #	

EROSION CONTROL & SOIL STABILIZATION PROGRAM:

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARDS AND PROCEDURES
 SET FORTH IN THE CITY/TOWN LAND DEVELOPMENT AND SUBDIVISION REGULATIONS AND

SET FORTH IN THE CITY/TOWN LAND DEVELOPMENT AND SUBDIVISION REGULATIONS AND ZONING ORDINANCE.

EXTREME CARE SHALL BE EXERCISED AS AS TO PREVENT ANY MATERIALS FROM ENTERING WETLANDS, THE ROADWAYS, ROADWAY DRAINAGE SYSTEMS, AND ADJACENT PROPERTY.

STAKED HAY BALES OR SILT FENCE SHALL BE INSTALLED WHERE SHOWN ON THE PLAN AND AS REQUIRED TO PREVENT SEDIMENTATION ONTO ADJACENT PROPERTIES, WETLANDS

AND THE ROADWAY DRAINAGE SYSTEM.

4. DENUDED SLOPES SHALL NOT BE UNATTENDED OR EXPOSED FOR EXCESSIVE PERIODS OF TIME SUCH AS THE INACTIVE WINTER SEASON.

5. ALL DISTURBED SLOPES, EITHER NEWLY CREATED OR EXPOSED PRIOR TO OCTOBER 15 SHALL BE SEEDED OR PROTECTED BY THAT DATE.

SEED MIX: (RIDOT STANDARD)
CREEPING RED FESCUE 75 LBS/ACRE
KENTUCKY BLUE GRASS 15 LBS/ACRE
COLONIAL BENT GRASS 5 LBS/ACRE
PERENNIAL RYE GRASS 5 LBS/ACRE

6. TEMPORARY TREATMENTS SHALL CONSIST OF HAY, STRAW OR FIBER MULCH OR PROTECTIVE COVERS, SUCH AS A MAT OR FIBER LINING (BURLAP, JUTE, FIBERGLASS NETTING, EXCELSIOR BLANKETS). THEY SHALL BE INCORPORATED INTO THE WORK AS WARRÂNTED OR AS ORDERED BY THE RIDEM, TOWN, ENGINEER OR OWNER AT NO ADDITIONAL COST.

7. HAY OR STRAW APPLICATIONS SHALL BE IN THE AMOUNT OF 3,000-4,000 LBS/ACRE.
8. ALL NEW HAY BALES OR TEMPORARY PROTECTION SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED AND POTENTIAL SEDIMENTATION SOURCES ARE REMOVED.

9. STOCKPILES SHALL HAVE NO SLOPE GREATER THAN 2:1 AND SHALL BE SURROUNDED BY STAKED HAY BALES OR SILT FENCE. STOCKPILES EXPOSED FOR EXCESSIVE PERIODS OF TIME SHALL RECEIVE TEMPORARY TREATMENT CONSISTING OF HAY, STRAW OR FIBER

MATTING.

10. DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EROSION CONTROL MAINTENANCE AND SHALL INSPECT/REPLACE AS NEEDED.

ADDITIONAL HAY BALES/SILT FENCE OR OTHER TREATMENTS SHALL BE PROVIDED AS DIRECTED BY ENGINEER, RIDEM OR LOCAL REPRESENTATIVES AT NO ADDITIONAL COST.
 THE CONTRACTOR SHALL REFERENCE THE "RI EROSION AND SEDIMENT CONTROL HANDBOOK" AS PREPARED BY THE US DEPT. OF AGRICULTURE, SOIL CONSERVATION

SERVICE, 1989, (AS REVISED) AS A GUIDE.

13. THE CONTRACTOR SHALL INSPECT THE SOIL EROSION CONTROL DEVICES AFTER EVERY RAIN STORM EVENT AND EVERY SEVEN DAYS DURING DRY PERIODS. ANY SOIL MIGRATION PAST THE DEVICES SHALL BE REMOVED AND THE SOIL EROSION CONTROL DEVICES SHALL BE RE—ESTABLISHED TO PREVENT SOIL EROSION. ALL ACCUMULATED SEDIMENT IN FRONT OF THE DEVICES SHALL BE REMOVED AFTER EVERY RAIN STORM EVENT.

OF THE DEVICES SHALL BE REMOVED AFTER EVERY RAIN STORM EVENT.

14. ALL DISTURBED SOIL AREAS SHALL BE PROTECTED AGAINST SOIL EROSION BY PLACEMENT OF HAY BALES AND/OR SILT FENCE ON THE DOWN GRADIENT SIDE OF THE DISTURBED AREA(S). SHOULD THE VOLUME AND/OR RATE OF STORMWATER RUNOFF BE TOO GREAT FOR A SINGLE DEVICE, THEN MULTIPLE DEVICES ARE REQUIRED SUCH AS SILT FENCE BACKED—UP WITH HAYBALES.

15. AT THE END OF THE PROJECT ALL SEDIMENT IN THE DRAIN MANHOLE SUMPS & PIPES SHALL BE REMOVED.
16. DISTURBED SOILS SHALL BE STABLIZED AS SOON AS PRACTICABLE AS DETERMINED BY OWNER/ENGINEER.

17. TEMPORARY VEGETATION AND/OR MULCHING SHALL BE USED TO PROTECT EXPOSED LAND AREAS DURING DEVELOPMENT.
 18. PERMANENT (FINAL) VEGETATION SHALL BE PLANTED AND SUPPLEMENTAL EROSION CONTROL MEASURES SHALL BE INSTALLED AS SOON AS PRACTICABLE.

CONTROL MEASURES SHALL BE INSTALLED AS SOON AS PRACTICABLE.

19. UNTIL A DISTURBED AREA IS STABILIZED, SEDIMENT IN THE RUNOFF WATER SHALL BE TRAPPED BY THE USE OF DEBRIS BASINS, SEDIMENT BASINS, SILT TRAPS OR SIMILAR

20. DURING GRADING OPERATIONS, APPROPRIATE MEASURES FOR DUST CONTROL SHALL BE EXERCISED BY USE OF SPRAY WATER APPLIED OR APPROVED EQUAL.
 21. A CONTRACTOR SHALL INSPECT AND MAINTAIN THE EROSION AND SEDIMENT CONTROL SYSTEM AS SPECIFIED. CONSTRUCTION INSPECTION AND MAINTENANCE SHALL BE PERFORMED AFTER EACH RAINSTORM EVENT AND ON A WEEKLY BASIS.

NOTES FOR BUFFER ZONE RESTORATION

1. MAINTAINED LAWN AREA SHALL BE SCARIFIED PRIOR TO PLANTING.

2. THE FOLLOWING SHALL BE PLANTED WITHIN THE BUFFER RESTORATION AREA:

TREES: 10 RED MAPLE (ACER RUBRUM)
5'-6' TALL SPACED 20' OC-CENTER

CONDITION.

SHRUBS: 25 ARROWWOOD VIBURNUM (VIBURNUM DENTATUM)
25 HIGHBUSH BLUEBERRY (VACCINIUM CORYMBOSUM)
25 WITCHHAZEL (HAMMAMELIS VIRGINIANA)
ALL SHRUBS SHALL BE 2'-3' HEIGHT AND SPACED 6' ON-CENTER.

3. BUFFER ZONE MARKERS SHALL BE INSTALLED WHERE INDICATED ON THE PLAN.

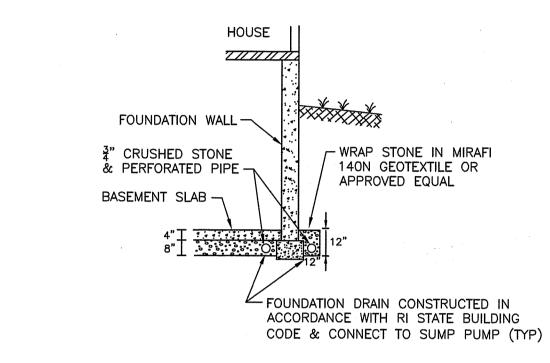
4. THE RESTORED BUFFER ZONE SHALL BE ALLOWED TO REVERT TO A WILD

12'(±) MAX. UNLESS NOTED OTHERWISE COMPOST FILTER SOCK, SILT FENCE OR COMPOST FILTER BERM EXCAVATION STOCKPILE CONTINUOUS COMPOST FILTER SOCK, SILT FENCE OR COMPOST FILTER SOCK, SILT FENCE OR COMPOST FILTER BERM SECTION NOTES: 1. REQUIRED SIZE TO BE DETERMINED BY THE ENGINEER

REQUIRED SIZE TO BE DETERMINED BY THE ENGINEER
 SOIL SHALL BE COVERED WITH TARPS WHEN DETERMINED TO BE DRY BY THE RESIDENT ENGINEER
 STOCKPILE LOCATIONS CAN VARY FROM SITE PLAN SINCE SITE IS VERY FLAT.

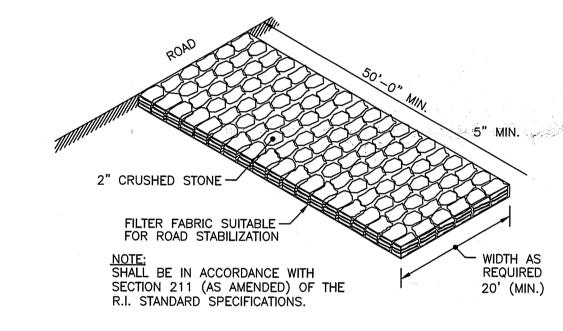
ON-SITE SOIL STOCKPILE DETAIL

NOT TO SCALE



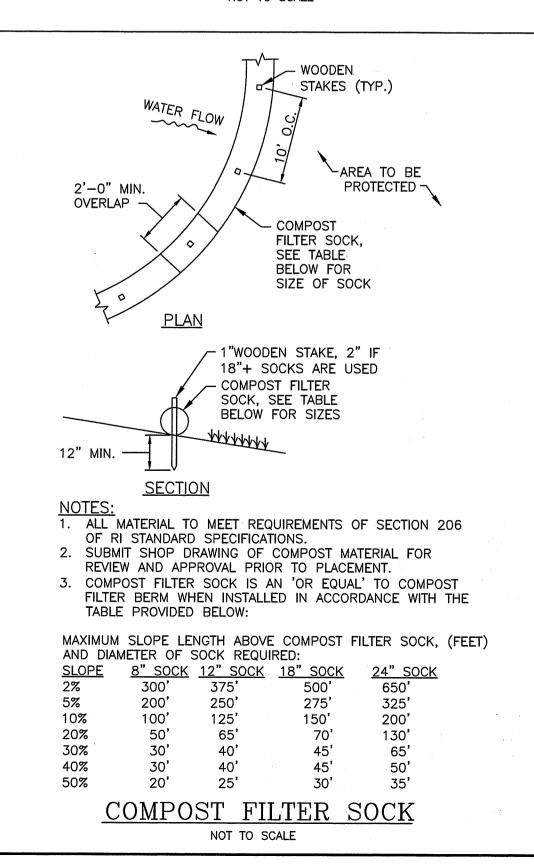
FOUNDATION DRAIN DETAIL

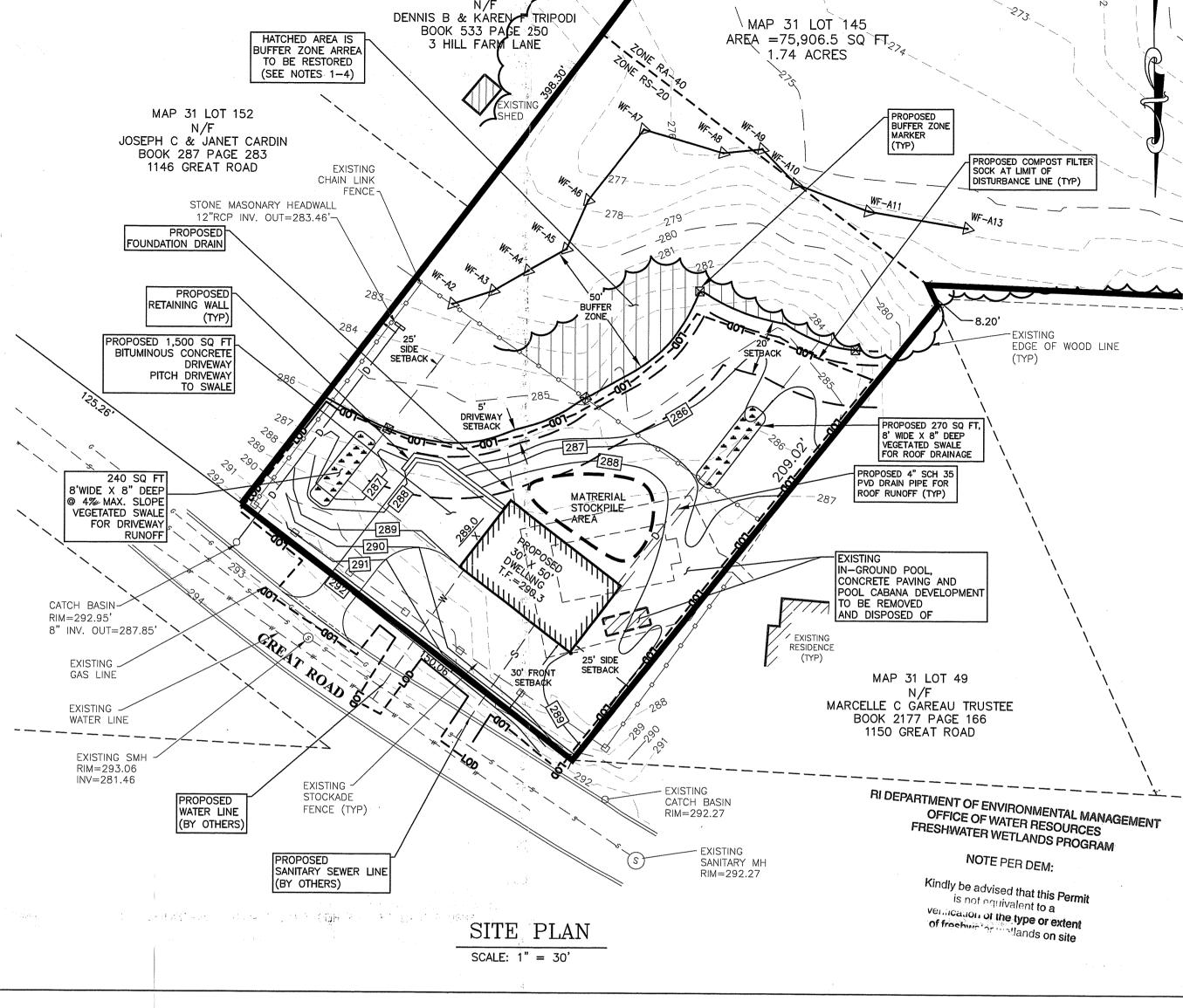
N.T.S.



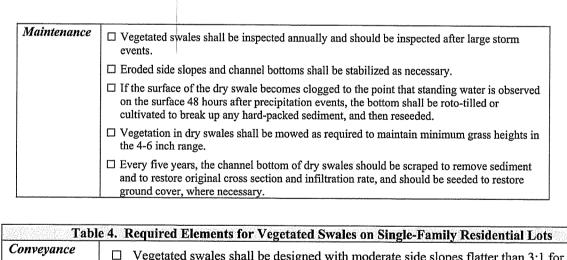
CONSTRUCTION ACCESS

NOT TO SCALE





MAP 31 LOT 199



☐ Vegetated swales shall be designed with moderate side slopes flatter than 3:1 for most Uegetated swales shall have a maximum longitudinal slope of 4% (e.g. 4 foot drop over a horizontal distance of 100 feet). Treatment ☐ The average surface ponding depth shall be no more than a 8 inches deep. \Box The bottom width shall be no less than 2 feet and no greater than 8 feet wide A maximum ponding depth of 1 ft should be maintained at the longitudinal midpoint of the vegetated swale and a maximum depth of 18 inches at the end point. \square Swales should contain a 2 – 4 inch amended soil layer and a 2 – 3 inch mulch layer. ☐ The amended soil layer of a vegetated swale should be a 50/50 mixture of the excavated native soils and mature organic compost. Vegetation ☐ Grasses or sedges are typically used in vegetated swales, but other native plants can be used as well. Please refer to the RI Coastal Plant Guide (www.uri.edu/cels/ceoc/coastalPlants/CoastalPlantGuide.htm) and modify the selection for native plants suited to rain gardens. Maintenance ☐ Vegetated swales shall be inspected annually and should be inspected after large storm ☐ Eroded side slopes and channel bottoms shall be stabilized as necessary. ☐ If the surface of the dry 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. ☐ Vegetation in dry swales shall be mowed as required to maintain minimum grass heights in the 4-6 inch range.

and to restore original cross section and infiltration rate, and should be seeded to restore ground cover, where necessary.

Less than 3:1 slope

4' Maximum

Native grasses/sedges

Undisturbed native soil

☐ Every five years, the channel bottom of dry swales should be scraped to remove sediment

VEGETATED SWALE DETAIL

NOT TO SCALE

2-4" Amended soil

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS

SPECIFIED IN THE LETTER OF APPROVAL

DATED: APR 1 5 2025 FILE #: 5 -0083

NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL

APPROVED PLANS MUST BE AT CONSTRUCTION SITE

ratiogrape golas

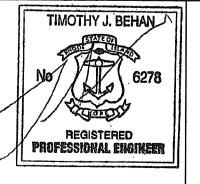
NOTE:

ENTIRE PARCEL FALLS WITHIN THE 200
FOOT JURISDICTIONAL AREA OF THE
STREAM LOCATED WITHIN THE ON—SITE
WETLAND.

MAR 03 2025

PREPARED FOR:

MARCELLE C GAREAU TRUSTEE
1150 GREAT ROAD
LINCOLN, RI 02865
401-265-6349

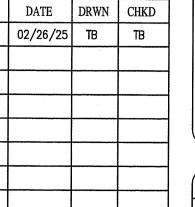




COMMONWEALTH
ENGINEERS & CONSULTANTS, INC.

400 SMITH STREET
PROVIDENCE, RHODE ISLAND 02908

REVISIONS



SITE PLAN TO ACCOMPANY
RIDEM WETLANDS APPLICATION
MAP 31 LOT 145

GREAT ROAD LINCOLN, RHODE ISLAND

SCALE: AS SHOWN SHEET NO: 1 OF 1

DRAWN BY: CJC DESIGN BY: CJC CHECKED BY: TB

DATE: 02/3/2025 PROJECT NO.: 25003.00