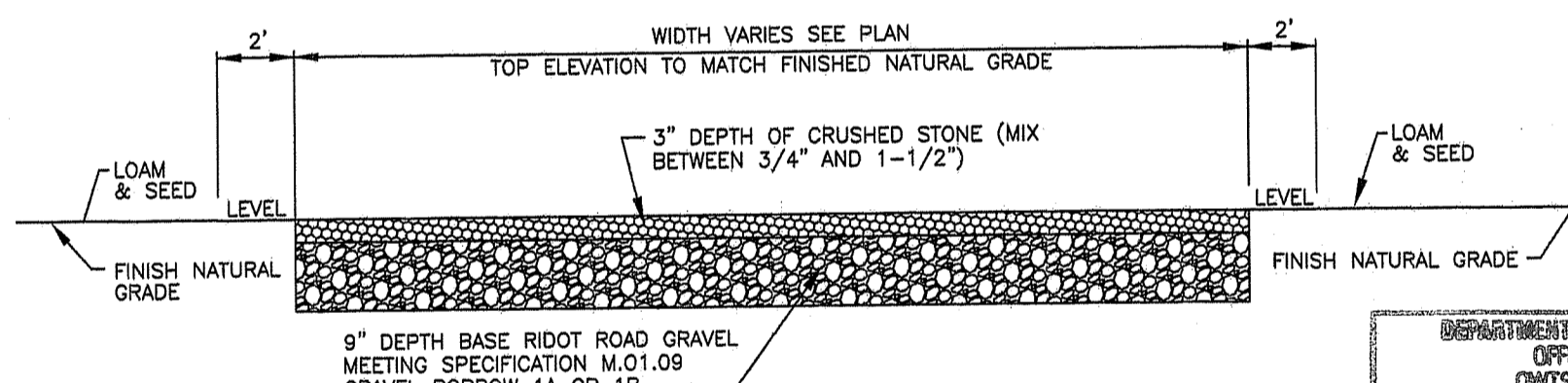
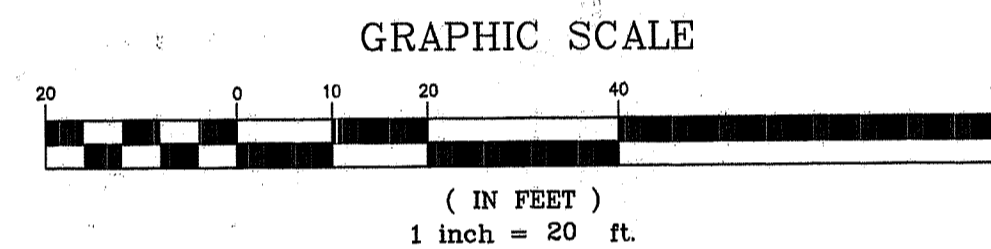


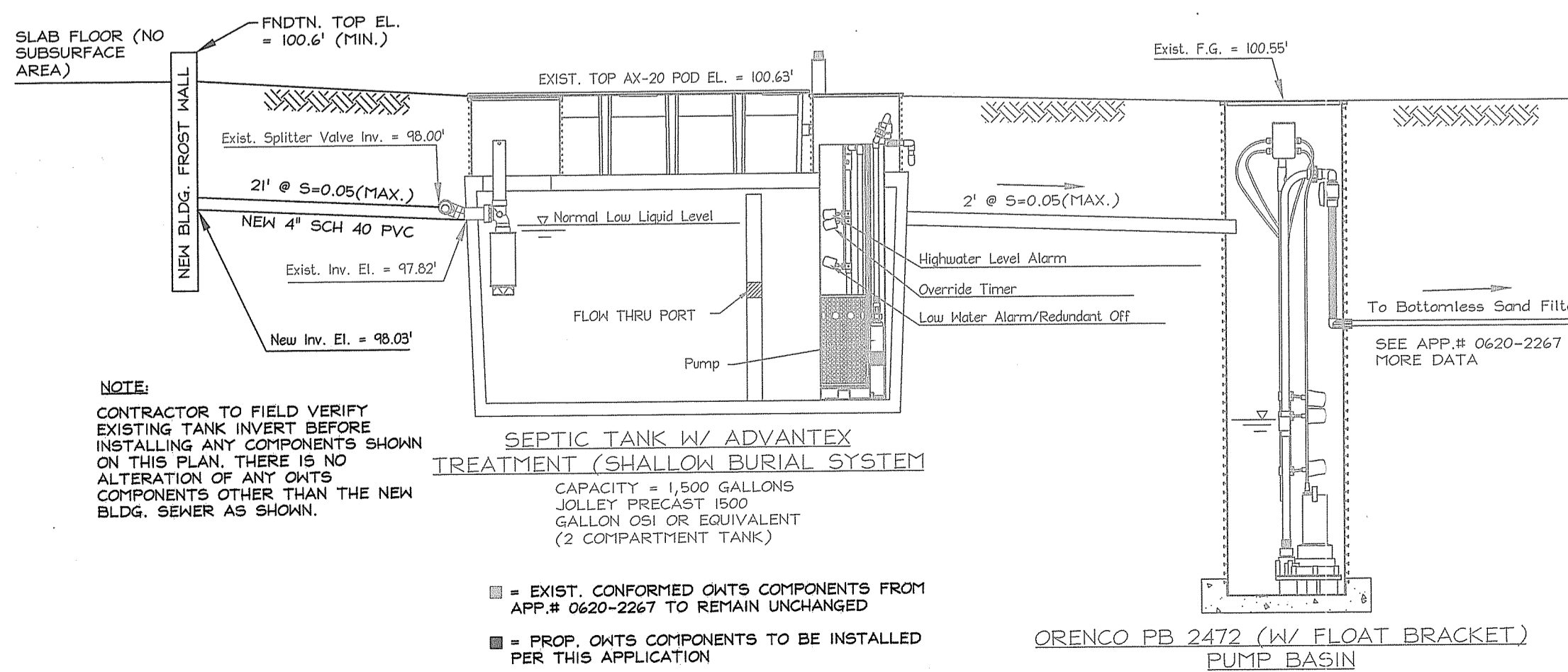
PLAN VIEW SCALE: 1"=20'

STORMWATER DESIGN PROVIDED BY:

COMMONWEALTH ENGINEERS & CONSULTANTS, INC. 400 SMITH STREET PROVIDENCE, RHODE ISLAND 02908 401-273-8600



TYPICAL PERVIOUS DRIVEWAY SECTION NOT TO SCALE

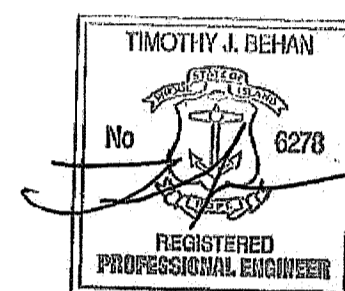


TYPICAL PROFILE OF SYSTEM

STORMWATER CONTROL REQUIRED:

Table with columns: COVER TYPE, AREA, % RUNOFF, RAINFALL, RUNOFF VOLUME. Includes pre-project and post-project data for various cover types like house, driveway, lawn, etc.

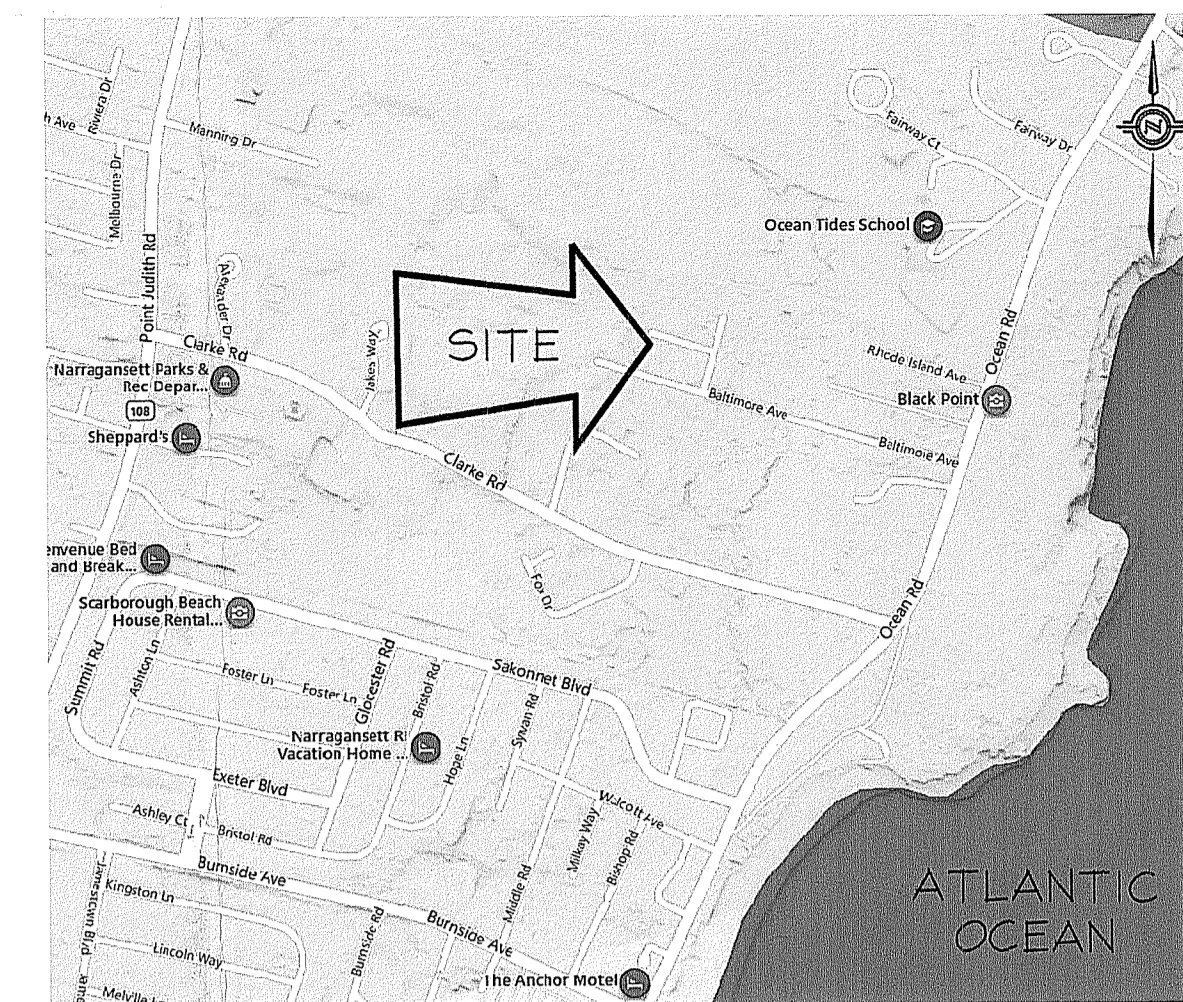
CERTIFICATION:



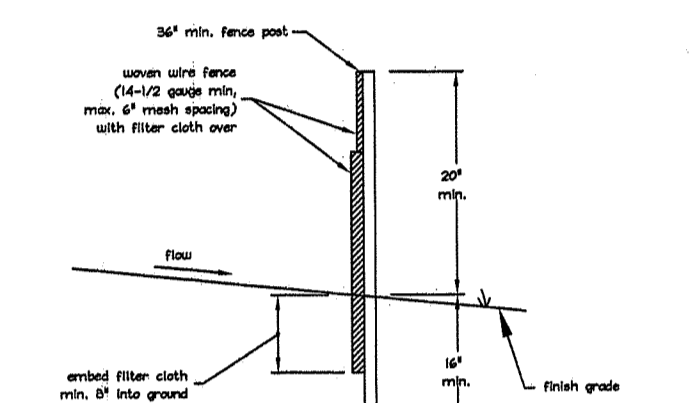
December 28, 2021 COMMONWEALTH ENGINEERS & CONSULTANTS, INC. 400 SMITH STREET PROVIDENCE, RI 02908 401-273-8600

LEGEND

- STONE BOUND FOUND
STONE BOUND DRILLHOLE FOUND
IRON PIPE FOUND
UTILITY POLE
WATER SHUTOFF
DRILLHOLE FOUND
CESSPOOL/SEPTIC TANK LID
WELL
STONE WALL
PROPERTY LINE
APPROX. PROPERTY LINE
PROP. SILT FENCE
CONTOUR (ASSUMED DATUM)
EXISTING WATERLINE+
EXISTING ELECTRICAL+
EXISTING TREELINE
SOIL EVALUATION
PROPOSED WATERLINE
EXIST. SPOT ELEVATION



LOCUS MAP



SILT FENCE DETAIL N.T.S.

R-40 ZONING DATA

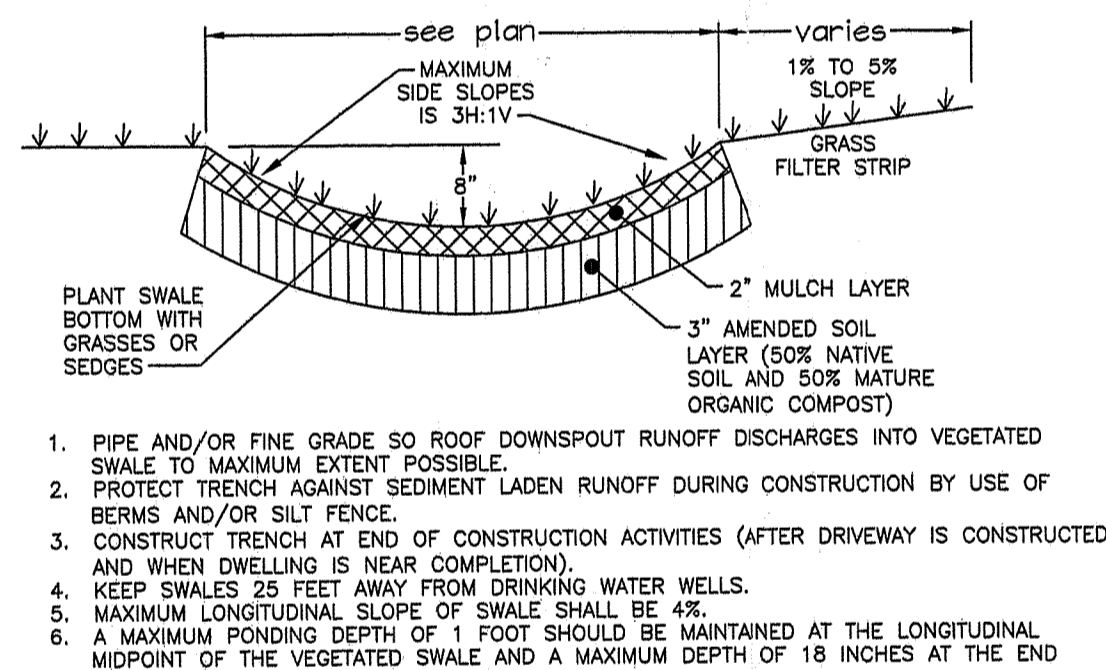
NON-CONFORMING LOT OF RECORD SETBACKS: FRONT = 25' SIDES = 10' REAR = 25' STRUCTURE LOT COVERAGE = 25%

OWTS GENERAL NOTES:

- 1. THE PROPERTY IS NOT SUBJECT TO RHODE ISLAND COASTAL RESOURCES MANAGEMENT COUNCIL REVIEW.
2. ALL PRIVATE AND PUBLIC DRINKING WATER LINES WITHIN 50 FEET OF THE PROPOSED ONSITE WASTEWATER TREATMENT SYSTEM (OWTS) ARE SHOWN, UNLESS OTHERWISE NOTED ON SITE PLAN.
3. THERE ARE NO PUBLIC SEWERS AVAILABLE TO THE PROPERTY WITHIN 200 FEET UNLESS NOTED ON SITE PLAN.
4. ALL EXISTING AND PROPOSED PRIVATE DRINKING WATER WELLS, 6" OR THERE RADI, ARE SHOWN WITHIN 200' OF THE PROPOSED OWTS COMPONENTS SHOWN ON THIS PLAN.
5. ALL EXISTING AND PROPOSED WELLS SERVING NON-POTABLE USES WITHIN 100 FEET OF THE OWTS ARE SHOWN, UNLESS OTHERWISE NOTED ON THE SITE PLAN.
6. ALL EXISTING AND PROPOSED PUBLIC DRINKING WATER WELLS WITHIN 500 FEET OF THE PROPOSED OWTS ARE SHOWN, UNLESS OTHERWISE NOTED ON THE SITE PLAN. THE CONSTRUCTION DETERMINATION OF SAID WELLS IS IDENTIFIED ON THE SITE PLAN, UNLESS OTHERWISE NOTED.
7. ALL WATERCOURSES, WETLANDS, AND DRAINS WITHIN 200 FEET OF THE PROPOSED OWTS ARE SHOWN, UNLESS OTHERWISE NOTED ON SITE PLAN.
8. ALL STORM AND SUBSURFACE DRAINS WITHIN 200 FEET OF THE PROPOSED OWTS ARE SHOWN, UNLESS OTHERWISE NOTED ON SITE PLAN. THE ULTIMATE DISCHARGE OF SAID DRAINS ARE IDENTIFIED ON THIS PLAN.
9. THE OWTS IS NOT LOCATED WITHIN THE WATERSHED OF A PUBLIC WATER SUPPLY OR OTHER CRITICAL RESOURCE AREA.
10. ALL EXISTING OWTS ON ADJUTING PROPERTIES WITHIN 200 FEET OF A PROPOSED WELL TO SERVICE THE SUBJECT PROPERTY ARE IDENTIFIED ON THE SITE PLAN, UNLESS OTHERWISE NOTED.
11. THE SUBJECT PROPERTY IS NOT LOCATED WITHIN AN IDENTIFIED FLOOD ZONE ACCORDING TO FEMA MAP # 4409C024J, EFFECTIVE ON 10/16/2015.
12. IF A PROPOSED WELL IS REQUIRED TO SERVICE THE WATER REQUIREMENTS FOR THE SUBJECT PROPERTY, SAID WELL DOES NOT REQUIRE A VARIANCE FROM RIDEM RULES AND REGULATIONS GOVERNING THE ENFORCEMENT OF CHAPTER 46-15.2 RELATING TO THE DRILLING OF DRINKING WATER WELLS.
13. CONFORMED APP. # 0620-2267 OWTS DESIGN DATA (BY OTHERS):
- 2 BEDROOM DESIGN - 115 GALLONS PER BEDROOM - TOTAL DESIGN FLOW = 345 GPD
- BASED ON THE SOIL EVALUATION, THE MOST RESTRICTIVE SOIL DESIGN CATEGORY IS 9.
- THE SOIL APPLICATION RATE = 1.5 GALS/50 FT/DAY
- TOTAL REQUIRED LEACHING AREA = 193.3 SQUARE FEET
- TOTAL PROVIDED LEACHING AREA = 193.75 SQUARE FEET
- LEACHFIELD: 7.5' W X 20.5' L BOTTOMLESS SAND FILTER.
14. OWTS GENERAL CONSTRUCTION NOTES:
- ALL PIPING SHALL BE 4" SCH 40 OR EQUIVALENT, UNLESS OTHERWISE NOTED
- ALL PIPE SLOPES SHALL BE A MINIMUM OF 1% AND A MAXIMUM OF 5%, REFER TO THE PROFILE
- THE SEPTIC TANK SHALL BE A CONCRETE TANK WITH THE CAPACITY AS STATED ON THE SITE PLAN.
- THE SEPTIC TANK INLET SHALL EXTEND 1' BELOW THE FLOW LINE AND THE OUTLET TEE SHALL EXTEND 1/3 THE DEPTH BELOW THE FLOW LINE.
- THE SEPTIC TANK SHALL BE FITTED WITH TWO ACCESS MANHOLE RISERS NOT LESS THAN 20"
- SURFACE GRADES WITHIN 5 FEET OF THE LEACHFIELD SHALL NOT BE LOWER THAN ELEVATION 20.0'. AT THE 5 FEET DISTANCE FROM THE LEACHFIELD, THE SLOPE SHALL BE A MINIMUM OF 3/4% TO MATCH INTO EXISTING GRADES.
- THE FINISH GRADE OVER THE SEPTIC TANK SHALL BE GRADED TO DIVERT SURFACE WATER RUNOFF AWAY FROM THE TANK.
- IF A DRIVEWAY OR PAVEMENT IS TO BE LOCATED NEAR THE PROPOSED OWTS, A FENCE OR CURBING SHALL BE INSTALLED AROUND THE SYSTEM IN THE AREA OF THE PAVEMENT TO PREVENT VEHICULAR TRAFFIC FROM DRIVING ONTO THE SYSTEM.
- CONTRACTOR TO OBSERVE & CONFIRM ALL PLUMBING INSIDE THE DWELLING WILL BE TIED INTO THE EXISTING SEPTIC TANK SHOWN ON THIS PLAN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY WHERE ALL EXISTING PLUMBING EXISTS THE BUILDING(S) SHOWN ON THIS PLAN, PRIOR TO INSTALLING ANY OWTS COMPONENTS. NEW PLUMBING, INSIDE THE BUILDING(S) SHOWN ON THIS PLAN, MAY BE REQUIRED AS PART OF THIS OWTS INSTALLATION.
15. THIS PLAN CONFORMS TO A CLASS 'III' PROPERTY LINE & A CLASS 'III' TOPOGRAPHY AS ADOPTED BY THE RI BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS. THIS SURVEY IS NOT VALID FOR ANY OTHER PURPOSE, OTHER THAN SHOWN ON THIS PLAN, WITHOUT WRITTEN CONSENT.
16. GENERAL OWNER NOTES:
- FOOD/GARBAGE GRINDERS INSIDE DWELLING AND DISPOSAL OF GREASES, OILS, AND OR FATS ARE PROHIBITED.
- VEHICLE PARKING OR TRAFFIC OVER THE OWTS COMPONENTS IS PROHIBITED.
- BACKWASH WATER FROM A WATER TREATMENT SYSTEM HAS NOT TAKEN INTO CONSIDERATION WITH THE DESIGN OF THIS OWTS. WATER TREATMENT SYSTEM DISCHARGE TO THIS OWTS IS PROHIBITED.
- THE SEPTIC TANK SHALL BE PUMPED WHEN DEEMED NECESSARY BY OPERATIONS & MAINTENANCE PERSONNEL OR LICENSED SEPTIC INSPECTOR.
17. INSTALLER TO PROVIDE DESIGNER W/ ALL COPIES OF MATERIALS PURCHASED & USED ON INSTALLING THIS OWTS PRIOR TO ISSUANCE OF CERTIFICATE OF CONSTRUCTION.
18. THERE ARE NO EXISTING OR PROPOSED SUBSURFACE DRAINS WITHIN 25' OF THE PROPOSED OWTS COMPONENTS SHOWN ON THIS PLAN.
19. THIS PLAN CONSTITUTES AN ALTERATION OWTS DESIGN W/ NO INCREASE IN FLOW. PER DISCUSSION W/ RIDEM PERSONNEL, SOIL DATA WITH PAST APPLICATION #0620-2267 HAS BEEN DEEMED ACCEPTABLE. NO NEW SOIL EVALUATIONS WERE PERFORMED BECAUSE NO ADDITIONAL FLOW IS BEING PROPOSED.
20. THE APPLICANT PROPOSES TO DEMOLISH THE EXISTING BUILDING & REPLACE IT WITH A NEW BUILDING. THE APPLICANT PROPOSES THE SAME NUMBER OF BEDROOMS (TWO) AS WHAT IS EXISTING. THE ONLY CHANGES TO THE PREVIOUSLY CONFORMED OWTS APP. # 0620-2267 ARE PROVIDING A NEW 4" SCH 40 PVC BLDG. SEWER LINE TO THE EXISTING TANK & RELOCATING THE EXISTING VERICOM CONTROL PANEL. THERE ARE NO CHANGES PROPOSED FOR THE REST OF THIS OWTS COMPONENTS.

VEGETATIVE SWALE DETAIL

NOT TO SCALE



STORMWATER BMP NOTES

GENERAL:

- 1. PROPERTY OWNER SHALL MAINTAIN BMPs IN ACCORDANCE WITH THE STATE OF RHODE ISLAND STORMWATER MANAGEMENT GUIDANCE FOR INDIVIDUAL SINGLE FAMILY RESIDENTIAL LOT DEVELOPMENT GUIDELINES.
2. SPECIFICATIONS, DETAILS, INSTALLATION AND MAINTENANCE REQUIREMENTS TO GOVERN THIS PROJECT FOR STORMWATER BEST MANAGEMENT PRACTICES (BMPs) ARE THE RHODE ISLAND STORMWATER DESIGN AND INSTALLATION STANDARDS MANUAL, AS REVISED. THE MANUAL IS AVAILABLE FOR DOWNLOAD AT THE CRIC AND RIDEM WEBSITES.
3. ALL BMP AREAS SHALL BE PROTECTED FROM CONSTRUCTION ACTIVITIES SO SOILS DON'T BECOME COMPACTED.
4. ALL AREAS COMPACTED BY CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO PROMOTE INFILTRATION BY TILLING THE TOP 12 INCHES OF SOIL PRIOR TO FINAL STABILIZATION.
PERVIOUS DRIVEWAY:
A. CRUSHED STONE SHALL BE REPLACED OR RE-GRADING PERFORMED AS NECESSARY IN CRUSHED STONE DRIVEWAYS TO MAINTAIN A DESIGN DEPTHS AND A LEVEL SURFACE.
VEGETATED SWALES:
A. VEGETATED SWALES SHALL BE INSPECTED ANNUALLY AND AFTER LARGE STORM EVENTS.
B. ERODED SIDE SLOPES AND CHANNEL BOTTOMS SHALL BE STABILIZED AS NECESSARY.
C. IF THE SURFACE OF THE SWALE BECOMES CLOGGED TO THE POINT THAT STANDING WATER IS OBSERVED ON THE SURFACE 48 HOURS AFTER THE PRECIPITATION EVENTS, THE BOTTOM SHALL BE ROTO-TILLED OR CULTIVATED TO BREAK UP ANY HARD-PACKED SEDIMENT, AND THEN RESEED.
D. VEGETATION IN SWALES SHALL BE MOWED AS REQUIRED TO MAINTAIN MINIMUM GRASS HEIGHTS IN THE 4 TO 6 INCH RANGE.
E. EVERY FIVE YEARS, THE CHANNEL BOTTOM OF SWALES SHOULD BE SCRAPED TO REMOVE SEDIMENT AND TO ENSURE ORIGINAL CROSS SECTION AND INFILTRATION RATE, AND SHOULD BE SEED TO RESTORE GROUND COVER, WHERE NECESSARY.

ONSITE WASTEWATER TREATMENT SYSTEM ALTERATION DESIGN
A.P. T. LOT 253
PENNSYLVANIA AVENUE
NARRAGANSETT, RHODE ISLAND
Prepared For: JANICE A. GAZELLE REVOC LIVING TRUST

MARCUS CHANNING
No. 1971
PROFESSIONAL LAND SURVEYOR

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REVISION:
DATE: DEC 2021
DRAWN BY: KRC
SCALE: 1" = 20'
SHEET 1 OF 1 SHEETS 1
JOB NO. GAZELLE
DWG. NO. GAZELLE-OWTS