

DESIGN SUMMARY

DESIGN FLOW: 110 GPD X 2 = 220 GPD TIGHT TANK: 500% OF DESIGN FLOW = 1,100 GALLONS USE 2,500 GALLONS REINFORCED CONCRETE TIGHT TANK DESIGN LOADING: H-20 RATE: OF BEDROOMS: : 110 GALLON PÈR 110 GPD X 2 = 2 TWO DAY PEZ BEDROOM

BUOYANCY CALCULATIONS

TANK: 26,000 LBS

NET DOWNARD FORCE = ASSUMING 1' HIGH GROUND WATER TABLE TOTAL WEIGHT DOWN = 26,000 +OF 5" SOIL COVER = 15.7'X6.75'X0.4'X90 PCF=3,815 LBS SOIL OVER TIGHT TANK IMMEDIATELY UPLIFT= 4.25'X15.7'X6.75'X62.4 29,815 3,815 28,105 PCF= 29,815 LBS AFTER INSTALLATION 1,710 LBS 28,105 LBS 9

GENERAL NOTES

- THE SANITARY SYSTEM CONSTRUCTION SHALL BE IN CONFORMANCE WITH 310 CMR 11.00—17.00 (TITLE V OF THE STATE OF MASSACHUSETTS ENVIRONMENTAL CODE) AND THE REQUIREMENTS OF FAIRHAVEN BOARD OF HEALTH.
- GROUT SHALL BE USED AT ALL POINTS WHERE PIPES ENTER OR LEAVE THE CONCRETE STRUCTURE IN ORDER TO PROVIDE WATERTIGHT SEAL.

 ALL KNOCK OUT PANELS IN TANK SHALL BE FILLED WITH CEMENT CONCRETE.
- 3. ALL SHIPLAP JOINTS IN THE TIGHT TANK SHALL BE SEALED WITH
 NEOPRENE GASKETS OR ASPHALT CEMENT. TANK SHALL BE HEAVY DUTY H-20 LOADING & SHALL BE MADE BY BRISTOL COUNTY PRE-CAST INC. WESTPORT, MA OR EQUAL.

 4. CONTRACTOR SHALL INSTALL TWO (2) FLOAT SWITCHES, THE SWITCHES SHALL BE
 "SJE-RHOMBUS 1002739, 30PMD1WP, PUMPMASTER SERIES", OR EQUAL, FOR AUTOAMTIC LIQUID LEVEL MONITORING WITHIN THE TANK.

 THE FLOATS SHALL ACTIVATE AN ALARM WHEN THE LIQUID LEVEL REACHES 75 & 100 PERCENT OF THE TANK CAPACITY. ALARM SHALL CONSIST OF A FLASHING LIGHT AND BELL AT THE CONTROL PANEL AND A REMOTE FLASHING LIGHT LOCATED ON THE EXTERIOR OF THE DWELLING.

 5. ALL PIPING USED SHALL BE WATERTIGHT 4" SCH 40 PVC PIPE.

 6. THE TIGHT TANK COVER SHALL BE BUILT UP TO THE FINISH GRADE. BUTYL RUBBER GASKETS SHALL BE UTILZED BETWEEN THE TANK, RISER & CAST IRON OR PLASTIC FRAME AND COVER, TO INSURE THAT NO INTRUSION OF GROUND WATER INTO THE TANK.

 7. THE FYSCTING 1000 AND THE SYSTEM AND THE TANK.
- THE EXISTING 1,000 GALLON SEPTIC TANK SHALL BE PUMPED OUT & REMOVED.

- NO ADJACENT WELLS EXIST. ALL SERVICES ARE TOWN SUPPLIED WATER.
 THE SUBJECT PROPERTY IS LOCATED EAST OF BUZZARDS BAY AND WEST OF MARSH AREA AND WETLAND. I FLAGGED THE WETLAND BEHIND THE HOUSE ON MAY 2, 2025.
 BENCH MARK ELEVATION IS ASSUMED TOP OF LANDING CORNER IN THE BACK OF THE HOUSE ELEVATION = 100.0 (PAINTED WHITE)
 THE PARCEL SHOWN LIE IN A FLOOD HAZARD ZONE (VE) MAP #25005C0501F, DATED 7/7/2009.

BOARD OF HEALTH

PROPOSED TEL:(508) DRAWN FOR: 674-4128 CE SCALE: 1" SILVER SHELL BEACH DRIVE MAP 41 LOT 47 BY: FAIRHAVEN, MA 02719 CORNELIUS TIGHT GTA ENGINEERING GEORGE T. AYOUB, 818 MONTGOMERY S FALL RIVER, MASS. RIVER, TANK CELL: J MINIHAN (774)REPLACEMENT ST. 301-1710

DATE: MAY 3,

2025 20,