PERMIT

Issue Date: 11/09/00 Expiration Date: 11/10/01

Property Owner: Betty Westwood c/o: Mark Paulson--Billmayer Engineering

Address: [redacted]

Telephone: [redacted]

Installer: Rupert Schreiner License No. 19

____ New Installation XX Existing System

____ Repair XX Replacement ____ Extension ____ Other

Describe: ***REPLACEMENT FOR FAILED PUBLIC WASTEWATER SYSTEM PER DEQ APPROVED ENGINEERED PLAN.***

Parcel Description:

Legal: Tract Nos. 7E1 & 7C2, S31 T35 R25

Address or Location: Fortine Merc. -- 9800 Hwy 93 S., Fortine, MT

Approved Design Criteria:

Bedrooms Pub. Septic Tank Size: 1000 gallons Drainfield Size: 318.4 lineal feet

INSTALL SYSTEM ACCORDING TO ENGINEERED PLAN AND LINCOLN COUNTY WASTEWATER REGULATION #3.

Special Instructions: ***ANY DEVIATIONS FROM APPROVED PLAN MUST BE AUTHORIZED BY THE DEPARTMENT. THE PROJECT ENGINEER MUST ALSO SIGN CLOSURE STATEMENT, CONFIRMING SYSTEM INSTALLATION.*** Issued By: Kendra J. Lind, R.S.

Closure Statement:

I, Rupert Schreiner MARK H. PAULSON Billmayer Eng., have inspected this system and found it to be in compliance with the engineered plan, conditions of the permit, and the Lincoln County Wastewater Treatment and Disposal Regulation.

Signed: Rupert Schreiner Date: 11-16-2000
Licensed Installer

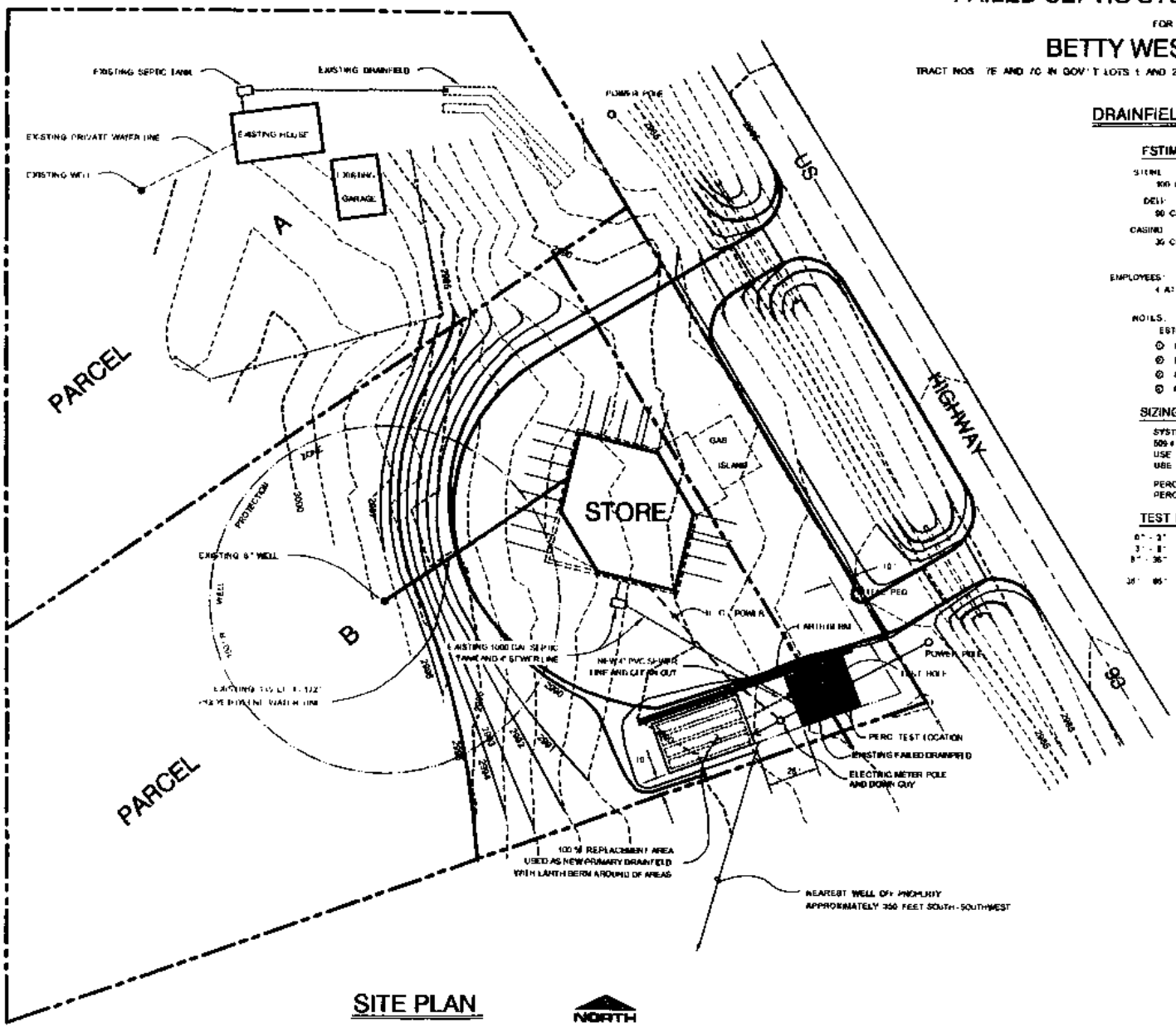
Signed: Mark H. Paulson Date: 11-28-2000
Project Engineer

FAILED SEPTIC SYSTEM REDESIGN

FOR

BETTY WESTWOOD

TRACT NOS 7E AND 7C IN GOV'T LOTS 1 AND 2, SEC 31, T35N, R25W, LINCOLN COUNTY



SITE PLAN

SCALE: 1" = 100'

NORTH

DRAINFIELD CALCULATIONS

ESTIMATED SEWAGE FLOWS

STORE:
300 CUSTOMERS / DAY @ 2.6 GPCD ① = 780 GPD

DELI:
90 CUSTOMERS / DAY @ 1.6 GPCD ② = 144 GPD

CASINO:
30 CUSTOMERS / DAY @ 2.1 GPCD ③ = 63 GPD

SUBTOTAL = 987 GPD

EMPLOYEES:
4 AT ANY ONE TIME @ 10.6 GPCD ④ = 42.4 GPD

TOTAL = 809.4 GPD

NOTES:
ESTIMATED NUMBER OF CUSTOMERS IS BASED ON OWNER EXPERIENCE

① PER UNIT FLOW IS BASED ON WQB 4, TABLE 30-3, "RESORT STORE"
② PER UNIT FLOW IS BASED ON WQB 4, TABLE 30-2 "CAFETERIA"
③ PER UNIT FLOW IS BASED ON WQB 4, TABLE 30-1, "BAR"
④ PER UNIT FLOW IS BASED ON WQB 4, TABLE 30-3, "RESORT STORE"

SIZING COMPS

SYSTEM SIZED ON BASIS OF 0.8 GPD / SF (WQB 4-60.302)
809.4 GPD / 0.8 GPD / SF = 636.75 SF ABSORPTION AREA REQ'D
USE 2' WIDE TRENCHES: 636.75 / 2 = 3184 LF REQ'D
USE (5) TRENCHES, 515' LONG

PERCOLATION TEST RESULTS 10-7-99 15 MIN/IN
PERCOLATION TEST RESULTS 11-27-99 16 MIN/IN

TEST HOLE LOG

0" - 3"	DUFF
3" - 8"	DARK BROWN TOP SOIL W/ORGANIC MATERIAL
8" - 36"	LIGHT BROWN SANDY SILT LOAM, NO GRAVEL OR COBBLES VERY WEAK STRUCTURE
36" - 85"	CREAM COLORED SANDY SILT LOAM, NO GRAVEL OR COBBLES NO MOTTLING OR OTHER INDICATION OF GROUND WATER, VERY WEAK STRUCTURE

RECORD DRAWING - - NOVEMBER 21, 2000

BILLMAYER ENGINEERING
2197 THIRD AVE. E. KALISPELL, MT 59901 (406)257-4796

SITE PLAN

PROJECT NO. 41-2
DRAWN BY: S.K.L.
DESIGNED BY: S.K.L.
DATE: 4/5/2000
SCALE: 1"=100'

FAILED SEPTIC SYSTEM REDESIGN
FOR
BETTY WESTWOOD

1 of 2