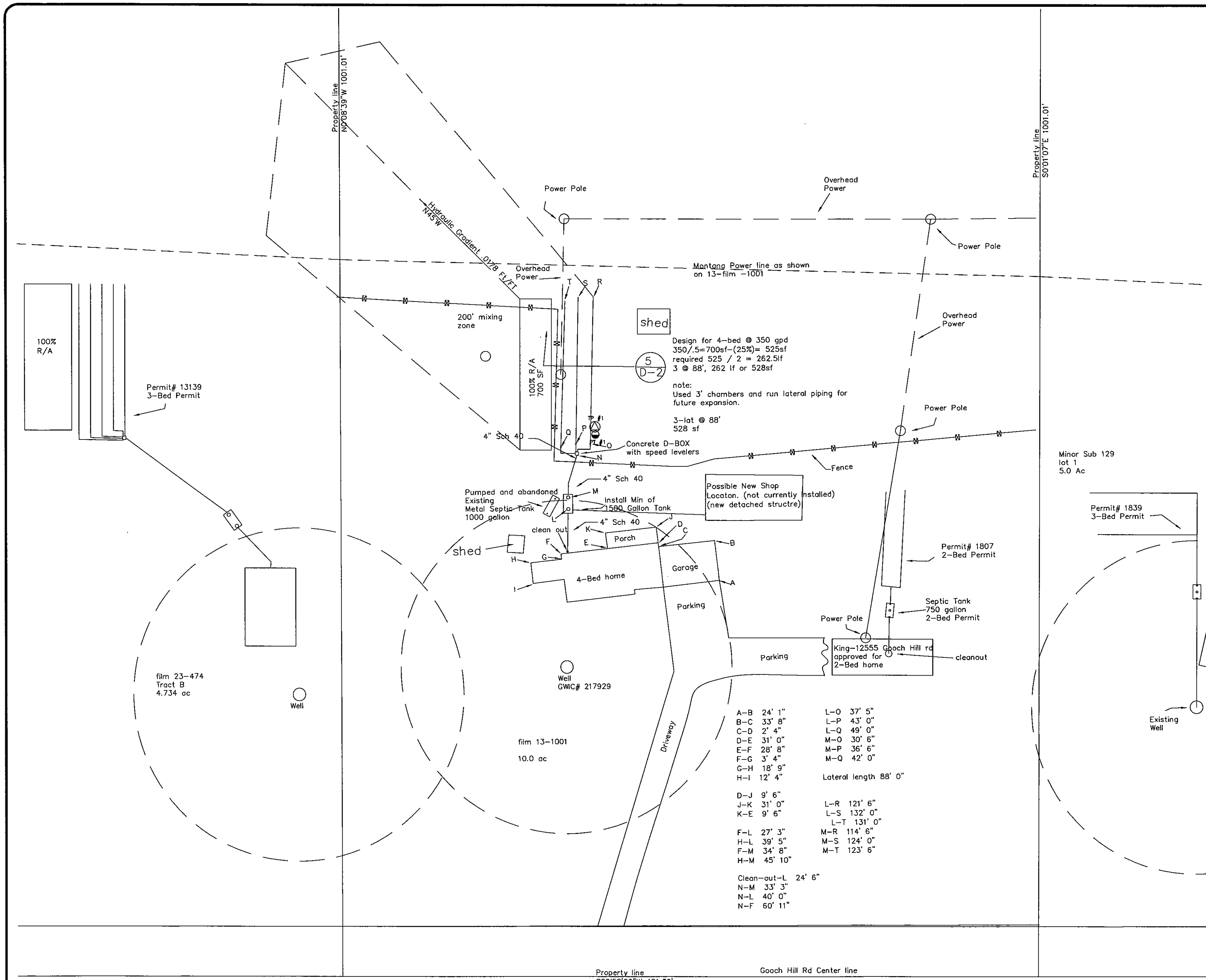

Amended Site Plan

Septic Design For 4-Bedroom Home

LEGAL DESCRIPTION:

LEGEND

PROPOSED REPLACEMENT DRAINFIELD AND 100% REPLACEMENT AREA

TP #1 TEST PIT LOCATION

Ⓦ Existing WELL

PT #1 PERC TEST LOCATION

NOTES:

Possible Drainfield Area

SLOPE ACROSS DRAINFIELD AND 100% REPLACEMENT AREA 1-3%

AT THIS TIME THERE ARE NO KNOWN WELLS AND/OR SURFACE WATERS WITHIN 100 FEET OF THE PROPOSED DRAINFIELDS/100% REPLACEMENT AREAS.

PRIOR TO CONSTRUCTION OF DRAINFIELD, VERIFY THAT SEPTIC SYSTEM AND ALL COMPONENTS WILL MEET ALL REQUIRED OFFSETS AND NOTIFY ENGINEER OF ANY DISCREPANCIES.

OWNER MUST DIVERT ALL STORM RUNOFF AWAY FROM ALL SEWER SYSTEM COMPONENTS TO PREVENT POSSIBLE MALFUNCTION.

ALL SEWER SERVICE LINES SHALL BE SLEEVED OR PROPERLY BEDDED FOR PROTECTION AT ALL ROAD/DRIVEWAY CROSSINGS AND PARKING AREAS. INSULATE AS REQUIRED. PRIMARY AND SECONDARY TREATMENT SYSTEM SHOULD BE PROTECTED FROM VEHICULAR/ TRAFFIC INCLUDING AGG EQUIPMENT AND CONSTRUCTION EQUIPMENT. TO PREVENT INJURY TO LIVESTOCK OR HORSES, OWNER MAY WANT TO CONSIDER FENCING OFF THE PRIMARY AND SECONDARY TREATMENT COMPONETS OF THIS SYSTEM.

ALL WATER LINES MUST BE AT LEAST 10 FEET FROM SEWER COMPONENTS.

ALL SEWER SERVICE LINES SHALL BE A MINIMUM OF 10 FEET FROM BUILDING.

INSTALLER SHOULD CALL FOR A UTILITY LOCATE 1-800-424-5555

WASTEWATER SYSTEM NOTES FOR THIS PERMIT:

1.) ALLOWABLE WASTEWATER FLOW IS UP TO 350 GALLONS/DAY

2.) APPLICATION RATE = .5 GPD/FT2-SANDY LOAM. 350/.5=700sf *.25=525sf/3=175lf= 3 LATERALS OF 88'

3.) PRIMARY TREATMENT WILL CONSIST OF MIN EXISITNG 1500 GALLON SEPTIC TANK FOR EACH DWELLING W/MIN OF 500 GALLON DOSE TANK IF PRESSURE DOSED

4.) SECONDARY TREATMENT WILL CONSIST OF A PRESSURE DOSE DRAINFIELD USING GRAVELESS ABSORPTION TRENCHES. THE PROPOSED SYSTEM WILL HAVE 3 LATERALS 88' IN LENGTH. THE LATERALS WILL USE LOW-PROFILE 36" CHAMBER, 4' IN LENGTH. 22 CHAMBERS/LAT. LATERALS ARE TO BE MIN OF 7' ON CENTER. TRENCH DEPTH TO BE STATED ON PERMIT TO CONSTRUCT. SEE PERMIT FOR ACTUAL ALLOWED DEPTH OF LATERALS. NOTE IF OWNER DECIDES TO PRESSURE DOSE, LATERAL PIPING TO BE 1-1/4" ORFICE SIZE IS 9/64" AND SPACED EVERY 5', START FIRST ORFICE 1' IN FROM BALL VALVE POINTED DOWN WITH ORFICE SHIELD, THE REST OF THE ORFICES FACING UP, THEN EVERY 20' NEED DOWNWARD FACING ORFICE W/SHIELD UNTIL END OF LATERAL W/LAST ORFICE FACING DOWN 1' FROM END OF LATERAL BALL VALUE.

Construction Notes:

Because of site conditions and proposed system type. Good chance of having to dose drainfield or switch it to pressure dose because of the grade concerns. (Pressure Dose)
would recommend using or doing the following:
using PVC risers and make system watertight and not just soil/dirt tight.
Possible Drainfield location has been identified, must stay w/in 25' of
proposed test pit locations while staying w/in the identified area and orientation.
using A-Lock/Tough tight gaskets for inlet and outlet of proposed tanks. Seal existing tank and bed the overdig for the 2" transport lines. If pressure dose, sleeve the 2" dose transport line from tank overdig w/a 4" sch 40. recommend seperating out the floats and putting them on their own tree as opposed to adding them to the pump line transport lines should be sleeved under all roadways where necessary and insulated, recommend draining back to dose tank or have transport line below frost line.
Biofilter should be cleanout twice a year.
pumping of the tank should be every 2-3 years depending on usage. (spring or early fall)
er & insulated lid.
If ground water is present, may want to add ballest to the dose tank depending on the site conditions.

Effluent filter is required to be added to the outlet of the septic tank.

Min slope from house to septic tank for transport line is 1/4" per foot

Owner, may want to consider duplex pumping as a back up. and owner may want to consider having a larger than the min septic tank and dose tank in the event the owner ever needs to add/expand the system. Owner is required to protect all septic compents ie from vehicle traffic, livestock, animals or anything that would prevent the system from functioning properply. This includes all transport lines, septic lids, tanks, valve boxes, drainfield. May be best to fence of the drainfield area to prevent livestock from damaging system.

if a camper drop ever gets added to the system, would recommend oversizing the septic tank by a min of 500 gallons. Would not put the stored winter effluent into the septic tank from the RV/Camper, would bring that to an approved loction.

Contractor shall notify all utility companies and determine the exact loction of all underground utilities before commencing work.

Proposed house location may change but the drainfield location has to remain as located and orientated.

0 30 60

● Date Apr. 2013 ● Designed DV ● Drawn DV ● Checked DV ● Approved DV

No.	Revision	By	Date

WARNING
0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

Bozeman, MT 59718

As-built
Permit #

Sheet No.
PS-1