Gravity 25% Reduction
FOR WASTEWATER TREATMENT

Owner: IREDELL GROUP

Address: 109-C Williamson Road
Mooresville, NC 28115

Phone: 704-663-4050

County: Iredell

Location: Walden Ridge Subdivision Lot #64

Source of Wastewater Flow: 4 Bedroom Single Family Residence

Estimated Daily Wastewater Production: 480 gpd

System Flow: NA

Design Specifications

Drainfield Size: 480

Loading Rate: 0.25

Depth of Gravel in Trench: NA (25% reduction)

Gravel Size: NA (25% reduction)

Trench Depth: 36 in.

Trench Width: 36 in.

Septic Tank Size: 1000

Pump Tank Size: NA

Estimated Supply Line Length: 50

Supply Line Diameter: 3 in. SCH 40 PVC

Supply Line Volume: 8.70

Dosing Volume: NA

Supply Manifold: DROP BOX

Supply Manifold Length: NA

Supply Manifold Volume: N/A

Recommended Float Controls: NA

Recommended Control Panel: NA

Pressure Head: NA

Friction Head: NA

Elevation Head: NA

Total Dynamic Head: NA

Threaded Union: NA

Gate Valves: NA
NA

Check Valves: NA

Anti-Siphon Hole: NA

Additional Comments: Soil suitability was performed by Rollans Soil & Environmental Services.

WALDEN RIDGE SUBDIVISION LOT 64

DESIGN FLOW:	480
SOIL APPLICATION RATE:	0.25
TOTAL AREA TRENCH BOTTOM:	1440
TOTAL LATERAL LENGTH:	480
NUMBER OF FIELDS:	1
LATERAL LENGTH REQUIRED PER FIELD:	480
SUPPLY LINE LENGTH:	50
TOTAL DYNAMIC HEAD:	NA
MANIFOLD SIZE:	NA
DOSING VOLUME:	NA
PUMP TANK DRAW DOWN*:	NA
SEPTIC TANK SIZE:	1000
PUMP TANK SIZE:	NA

WALDEN RIDGE LOT #64

Project #: 01-1069

LAYOUT FOR 4 BEDROOM HOME

March 27, 2006

LINE #	FLAG COLOR	BS	HI	FS	ELEVATION	FLAGGED LINE LENGTH	DESIGN LINE LENGTH
TBM		N/A			100.00		
TANK		N/A	N/A				
HOUSE		N/A	N/A				
INSTR. 1			N/A				
1	PINK			N/A	N/A	64	64
2	PINK			N/A	N/A	78	78
3	***ORANGE***			***N/A***	***N/A***	***151***	***150***
4	***BLUE***			***N/A***	***N/A***	***130***	***130***
5	***RED***			***N/A***	***N/A***	***118***	***110***
6	***PINK***			***N/A***	***N/A***	***95***	***90***
7	ORANGE			N/A	N/A	78	78
8	BLUE			N/A	N/A	62	62
9	RED			N/A	N/A	45	45
					Total	**821**	**807**

	LINE LENGTH	LTAR ~~GPD/FT²~~	SYSTEM ~~TYPE~~	SOIL LTAR GPD/FT²	TRENCH SYSTEM	DISTRIBUTION
****System***	***480***	***0.25***	***ACCEPT.***	***0.25***	***25% RED.***	**GRAVITY**
Repair	327	0.25	*MOD.*	0.25	PPBPS	**DISTRIBUTION** LOW PRESSURE

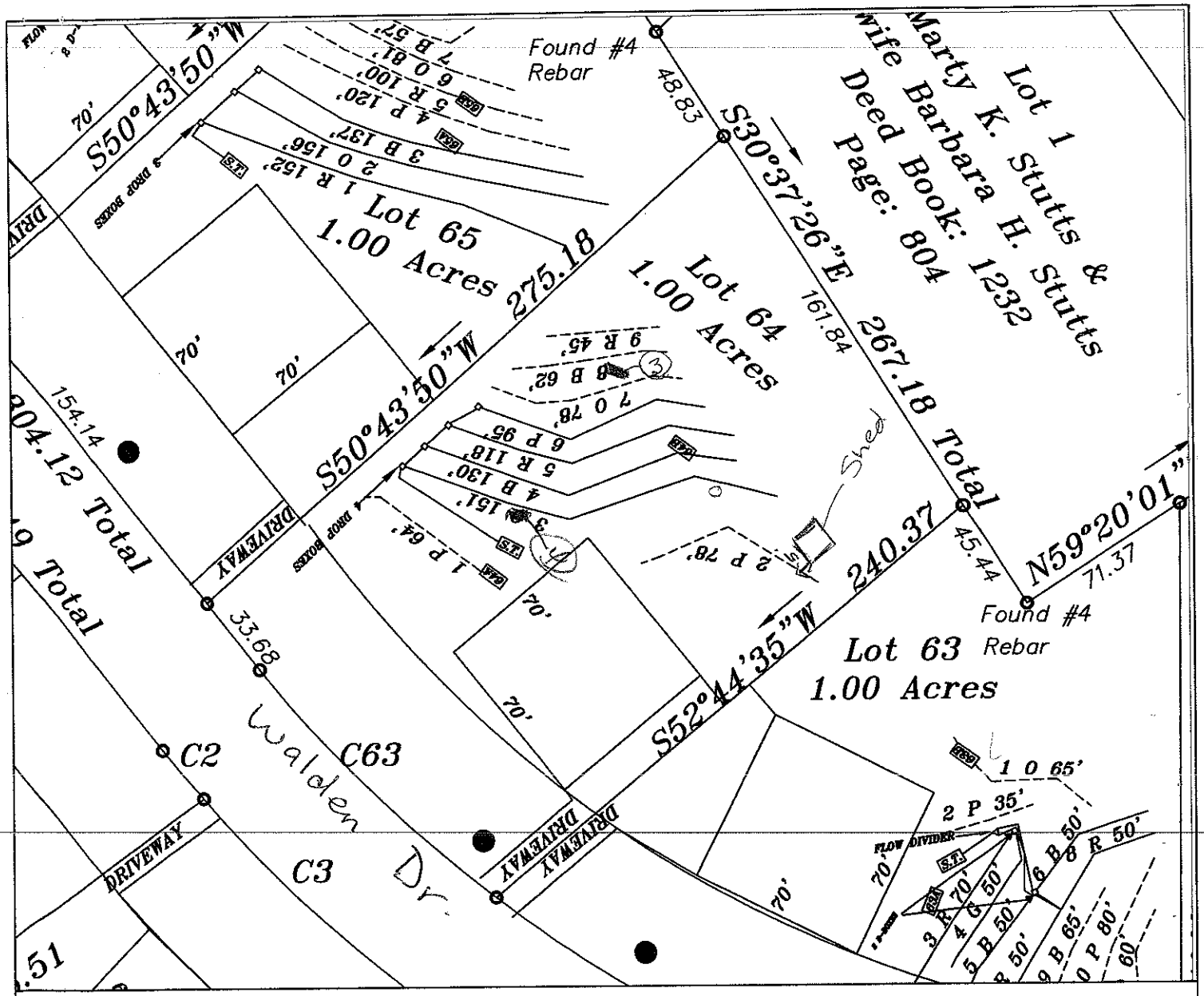
Notes:

** TBM NOT REQUIRED

**All measures in feet

**Nitrification lines are demonstrated on contour via colored pin flags

**BS, HI, and FS indicate rod readings



LEGEND

- Areas contain soils with 24 inches or more of useable material and have potential for conventional, modified conventional and low-pressure pipe (lpp) septic systems.
- Unsuitable areas.
- System lines.
- Repair lines.
- Temporary Bench Mark (TBM)
- Well Location.

GRAPHIC SCALE
1" = 60'

60 0 60 120

FOR PRELIMINARY PLANNING PURPOSES ONLY. ALL LOTS WILL REQUIRE FINAL APPROVAL BY THE COUNTY HEALTH DEPARTMENT ON A LOT BY LOT BASIS. THIS MAP SHOULD BY USED AS A GENERAL GUIDE, SOME ADJUSTMENTS WILL BE NECESSARY IN THE FIELD DUE TO SOIL VARIABILITY AND COMPLEX TOPOGRAPHIC FEATURES. THIS MAP ONLY REFLECTS EXISTING SOIL SUITABILITY FOR ON-SITE SEPTIC TANK SYSTEMS.

PLEASE REFER TO ATTACHED SOIL REPORT FOR ADDITIONAL SITE SPECIFIC INFORMATION

ROLLANS SOIL & ENVIRONMENTAL SERVICES
2120 GRAHAM ROAD
MOUNT ULLA, NC 28125
PHONE/FAX: (704) 278-0989
ASHLEY ROLLANS, NC LICENSED SOIL SCIENTIST
MOBILE: (704) 746-5046
EMAIL: ROLLANSFORTCJ@AOL.COM

MAP TITLE:	SITE PLAN & DRAINFIELD AREAS
PROJECT NAME:	IREDELL GROUP LLC/WALDEN RIDGE SUBDIVISION
LOCATION/DATE:	TEETER ROAD, IREDELL COUNTY, NORTH CAROLINA, DECEMBER 2006
JOB # :	01-1069
FILE:	C:\JOBS\01-1069
PROJECT MGR.:	CBF
FIELD WORK:	CBF AND AP
DRAWN BY:	CBP AND AP