157 Wheatfield Dr.

IREDELL COUNTY HEALTH DEPARTMENT

STATESVILLE 704-878-5305 MOORESVILLE 704-664-5281

IMPROVEMENT PERMIT / AUTHORIZATION TO CONSTRUCT / OPERATION PERMIT / EXISTING SYSTEM INSPECTION

PERMIT# 147397 PIN# 4761331124.083 4761-24-4608 DATE 2-8-08

OWNER OR APPLICANT Corinthian Builders Ltd PHONE: Business 704-400-1258 Home

ADDRESS P.O. Box 990 Denver NC 28037

LOCATION Hwy 21 N TR Oswalt Amity TR Wheatfield Dr. on left

SUBDIVISION Wheatfield BLOCK / SECTION 1 LOT 83 LOT AREA .57Ac SITE CLASS PS DESIGN FLOW 360 L.T.A.R. .275 gpd/ft²

Septic Tank: 1000 Gallons; STB 55 Date 2/10/08

Pump Tank: 1000 Gallons; PT 32 Date 10/8/07

Pump Make: Covid3 Model WEOSIIHH Serial No.

Nitrification Field: No Fields 1 Square Feet 990 Linear Feet 330

No Lines 4 Trench Width 36" Max Trench Bottom Depth 36" Gravel Depth NA ☐ Gravity ☑ Pressure

☒ New System ☐ Repair ☐ Expansion System Type: I II III IV V VI

System Description: 25% reduction pm

Repair System Description: LP PPBPS

Maintenance Agreement Required: ☐ Yes ☒ No

☒ House/Mod. Home ☐ Mobile Home ☐ Business ☐ Other

No. Bedrooms 3 No. Persons 6 No. Employees

Water Supply: ☒ Individual ☐ Public ☐ Community

☐ Slab ☒ Crawl Space ☐ Basement w/plumbing ☐ Basement wo/plumbing

Comments/Conditions: Install at 36" trench bottom

See pressure manifold details for varying tap sizes

Comments/Conditions: Tanks + lines checked 6/6/08

Pressure Manifold + pressured checked 7/3/08 AC.

Electrical checked 8/5/08 AC.

INITIAL SITE SKETCH

See plan from S&EC

AS BUILT SKETCH

System installed as designed

AC 8/5/08

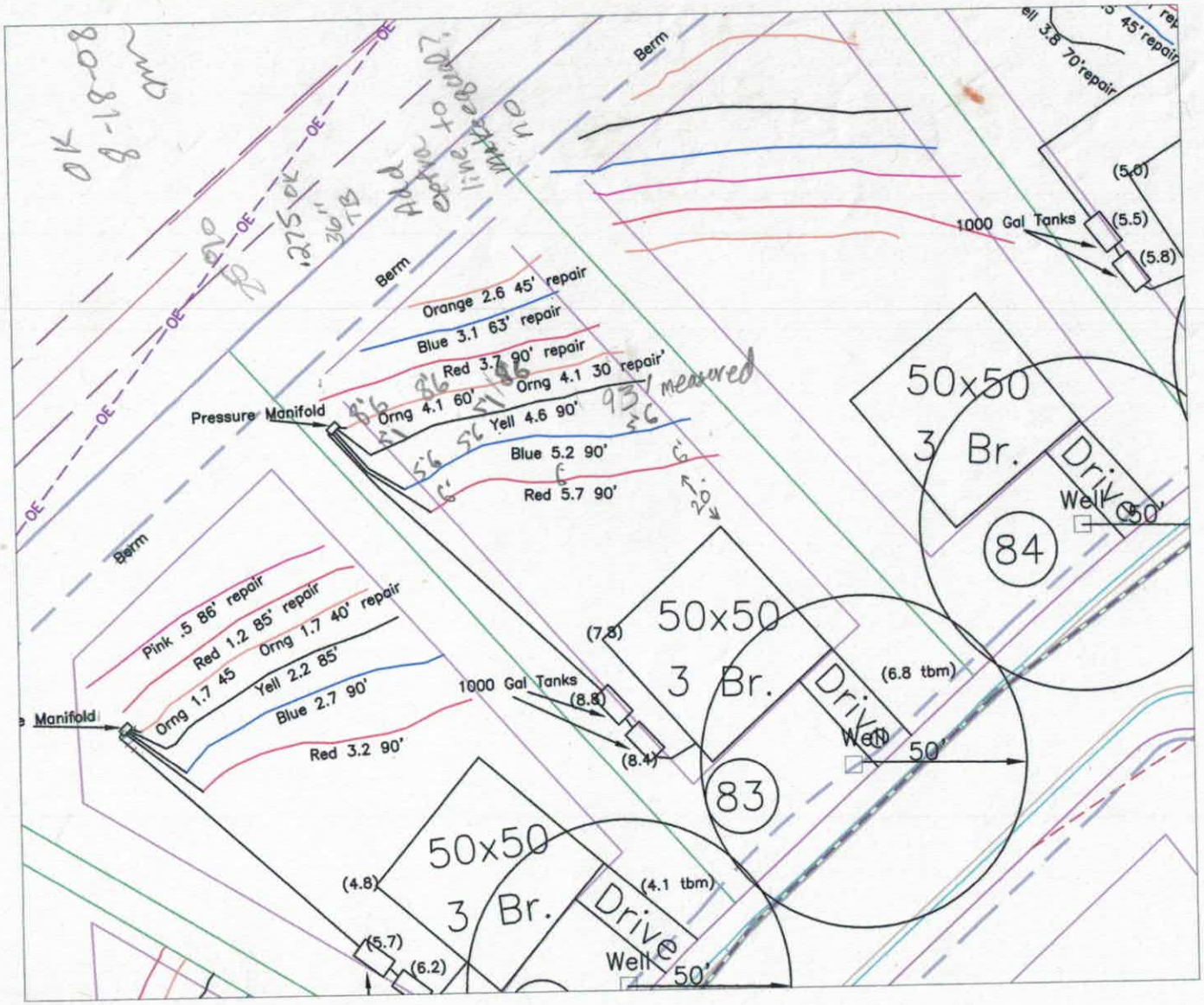
Permit can be suspended or revoked if any false information is supplied toward securing the permit/any unauthorized changes are made to the site/any unauthorized changes are made in the installation of the system. Improvement Permit with plat valid without expiration ☐ Improvement Permit with site plan valid for sixty months ☑ Authorization to Construct is valid for a period equal to that of Improvement Permit – not to exceed sixty months.

Signed: date 3/4/08 Installed by: Corinthian Builders

Improvement Permit by: Judy Melville date 2-8-08 Operation Permit by: Anthony Coker Jr date 8/5/08

Authorization to Construct by: date 5-19-08 Existing System Inspection by: date

HEALTH DEPT. COPY: WHITE OWNER COPY (FINAL): YELLOW OWNER COPY (INITIAL): PINK



**SUITABLE FOR PRELIMINARY PLANNING PURPOSES ONLY. ALL LOTS WILL REQUIRE 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 TOPOGRAPHIC IRREGULARITIES. THIS MAP ONLY REFLECTS EXISTING SOIL SUITABILITY FOR ON-SITE SEPTIC TANK SYSTEMS. SOME OTHER CONSIDERATIONS THAT AFFECT SITE SUITABILITY THAT SHOULD BE CONSIDERED IN DEVELOPMENT DESIGN ARE:

1) 10' SETBACK FROM PROPERTY LINE
2) 100' SETBACK FROM ANY WELL
3) 50' SETBACK FROM STREAMS, PONDS OR LAKES.

See accompanying S&EC report.

NOT A SURVEY

GRAPHIC SCALE
1" = 50'

50 0 50 100

PROJECT NO.	#5-1882
PROJECT MGR.	BF
DRAWN BY	E.B.
FIELD WORK	E.B.
SCALE	1" =50
FILE	Y:\jobs\1882

Soil & Environmental Consultants, PA
230 Lathrop Court, Suite C • Concord, North Carolina 28025 • Phone (704)720-8405 • Fax (704) 720-8409

S&EC

Wheatfield — Cottonham Builders — - Wheatfield lot 83 - IREDELL COUNTY, NORTH CAROLINA — DEC 2007

SHEET TITLE: PRELIMINARY SITE PLAN SKETCH MAP

SHEET 1 OF 1

PRESSURE MANIFOLD SYSTEM
FOR WASTEWATER TREATMENT

Owner: Corinthian Builders

Address:

Phone:
County: Iredell
Location: Wheatfield Lot 83
Source of Wastewater Flow: 3 bedroom home
Estimated Daily Wastewater Production: 360 gpd
System Flow: 35.78

Design Specifications

Drainfield Size: 330
Design Loading Rate: 0.273
Depth of Gravel in Trench: NA
Gravel Size: N/A
Trench Depth: 24
Trench Width: 36 in.
Septic Tank Size: 1000
Pump Tank Size: 1000
Estimated Supply Line Length: 114
Supply Line Diameter: 2 in. SCH 40 PVC
Supply Line Volume: 19.80
Dosing Volume: 183.16
Supply Manifold: 4 in. SCH 80 PVC
Supply Manifold Length: 3.5Ft
Supply Manifold Volume: 2.089

Recommended Float Controls: SJE Sensor Float Control Switches as Required for Control Panel or County Approved Equivalents
Recommended Control Panel: SJE-Rhombus Model 112 (NEMA 4x) Control Panel or County Approved Control Panel.
Pressure Head: 2 ft.
Friction Head: 2.74
Estimated elevation Head: 9.70
Total Dynamic Head: 16.61
Threaded Union: In Tank
Gate Valves: 1 in Tank
1 at Pressure Manifold
Check Valves: In Tank
Anti-Siphon Hole: no
Recommended Pump: Myers Model ME50 or County Approved Effluent Rated Pump Capable of Delivering ~17 ft.of Head at ~36 gpm Total Flow

Wheatfield
PRESSURE MANIFOLD DESIGN

DESIGN FLOW:	360
SOIL APPLICATION RATE:	0.3 gpd/ft.^{2}
TOTAL AREA TRENCH BOTTOM:	990
TOTAL LATERAL LENGTH:	330
NUMBER OF FIELDS:	1
LATERAL LENGTH REQUIRED PER FIELD:	327
SUPPLY LINE LENGTH:	114
TOTAL DYNAMIC HEAD:	16.61
MANIFOLD SIZE:	*4* in.SCH 80 PVC
DOSING VOLUME:	183.16
PUMP TANK DRAW DOWN*:	8.7
SEPTIC TANK SIZE:	1000
PUMP TANK SIZE:	1000
RECOMMENDED PUMP:	Myers Model ME50 or County Approved Effluent Rated Pump Capable of Delivering ~17 ft.of Head at ~36 gpm Total Flow

**Pump tank draw down based on a volume basis of 21 gallons per inch. Draw down may vary among pump tank manufacturers.*

Wheatfield Lot 83

Project No. 5-1862

LAYOUT FOR 3 BEDROOM HOME

January-08

LINE #	FLAG COLOR	BS	HI	FS	ELEVATION	FLAGGED LINE LENGTH
TBM		6.8			100.00	
INSTR. 1			106.80			
			System			
1	Red			5.70	101.10	90
2	Blue			5.20	101.60	90
3	Yellow			4.60	102.20	90
4a	Orange			4.10	102.70	60
					Total	**330**
			Repair			
4b	Orange			4.10	102.70	30
5	Red			3.70	103.10	90
6	Blue			3.10	103.70	63
7	Orange			2.60	104.20	45
					Total	**228**

	LINE LENGTH	Design LTAR GPD/FT2	SYSTEM TYPE	Innovative Type	DISTRIBUTION	Trench Depth	Soil LTAR
SYSTEM	330	0.273	Innovative	25%	P. Manifold	24	0.275
REPAIR	228	0.263	PPBPS		LPP	30	0.275

Notes:

**TBM is assumed to be 100'; lot of front right cnr stake

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

**BS, HI, and FS indicate rod readings

**Repair lines longer than 70' will be center distributed

Wheatfield Lot 83

SYSTEM

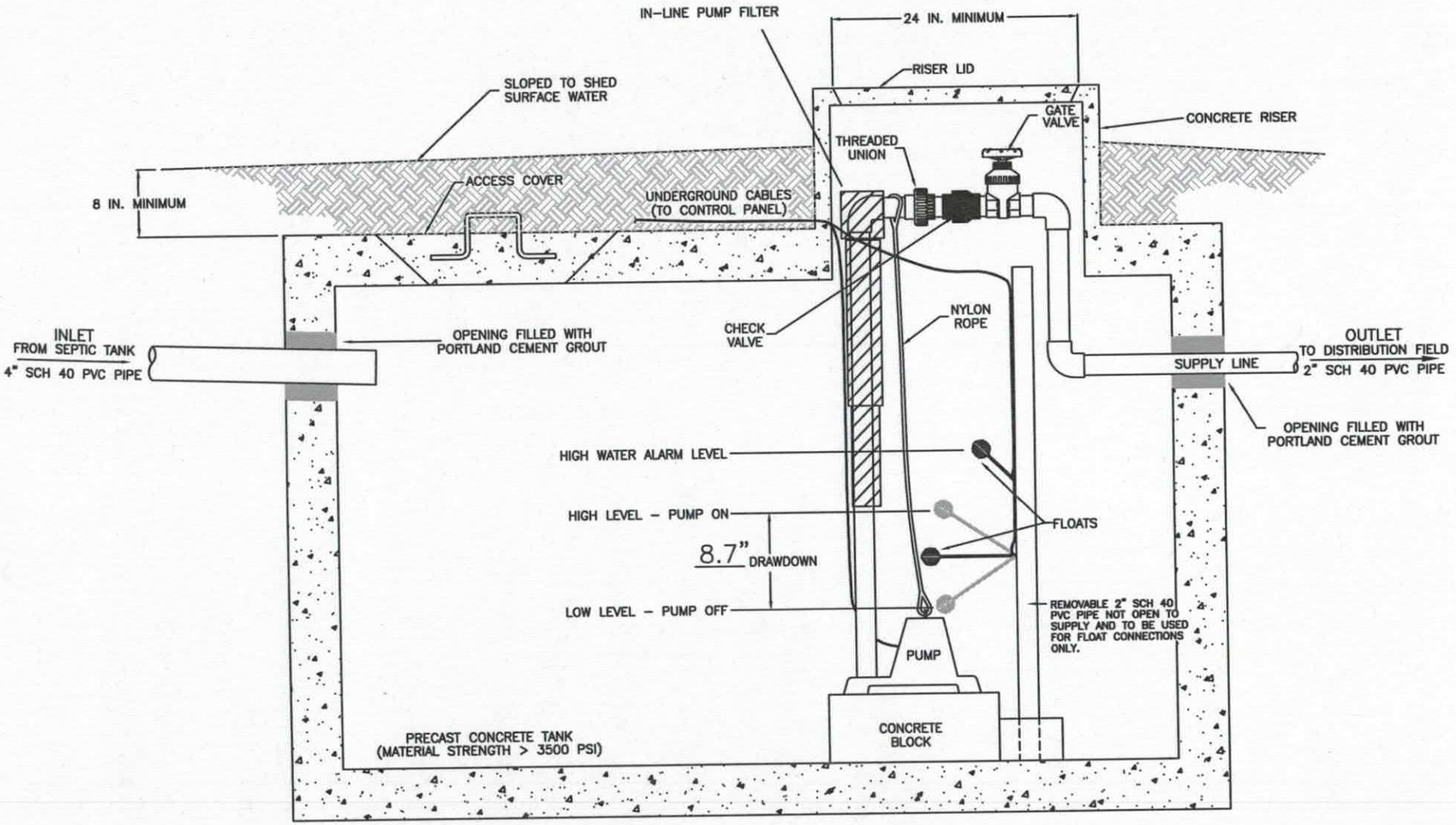
Line #	Color	Elevation	Length	Hole Size	Flow/Tap	gpd	Trench Area	Line LTAR
1	Red	101.1	90	SCH 80 3/4	10.1	101.62	270	0.38
2	Blue	101.6	90	SCH 80 3/4	10.1	101.62	270	0.38
3	Yellow	102.2	90	SCH 80 3/4	10.1	101.62	270	0.38
4a	Orange	102.7	60	SCH 80 1/2	5.48	55.14	180	0.31
	total	feet =	330	gal/min =	35.78			

Des. Flow	360
Pump Run=	10.06
soil LTAR	0.275
Innovative LTAR	0.37
Innovative +5%	0.39

Wheatfield lot 83
Repair
Design Specifications

Line #	Color	# Panels	# Holes/ Panel	Line Length	Hole Size	Line Head	Line Flow
4b	Orange	7	1	30	5/32"	2	2.87
5	Red	20	1	90	5/32"	2	8.2
6	Blue	14	1	63	5/32"	2	5.74
7	Orange	10	1	45	5/32"	2	4.1
	Total	**51**		**228**			**20.91**

Lines Longer than 70 will be center distributed



1000 GALLON PUMP TANK

SHEET 1 OF 1

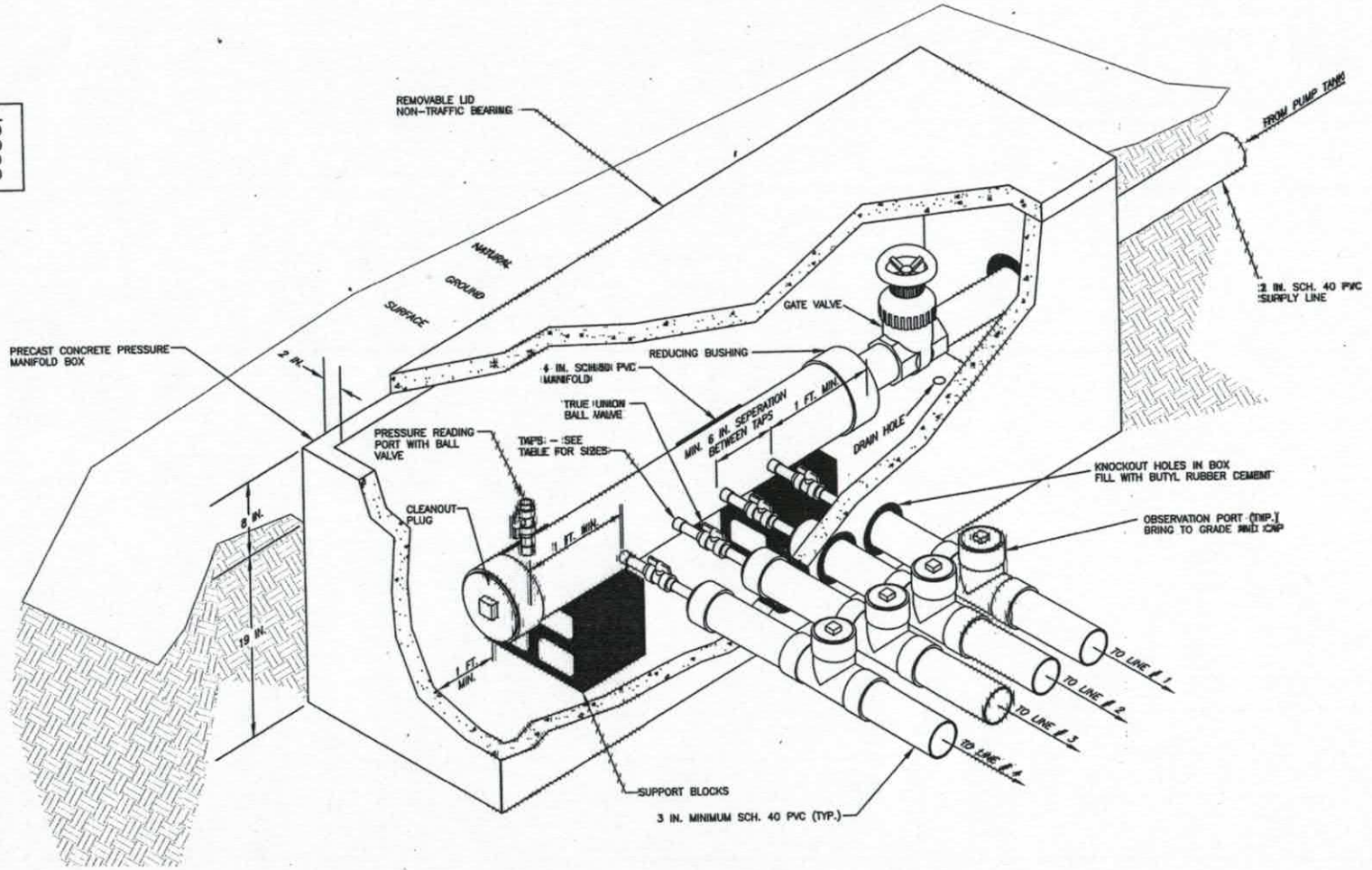
JOB NO.	PROJECT NAME: Wheatfield Lot 83	S&EC Soil & Environmental Consultants, Inc.
PROJECT MGR.	SHEET TITLE: PUMP TANK DIAGRAM	244 West Millbrook Road ■ Raleigh, North Carolina 27609 ■ (919) 846-5900 ■ Fax (919) 846-9467
SCALE NTS		

9

PRESSURE MANIFOLD DETAILS
FOR
Wheatfield Lot 83

TAP SIZES

LINE No.	TAP SIZE
1	3/4" SCH. 80
2	3/4" SCH. 80
3	3/4" SCH. 80
4	1/2" SCH. 80



CALCULATIONS

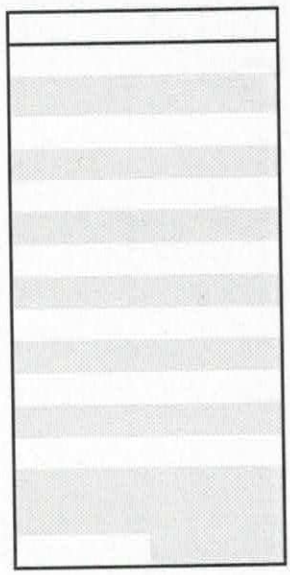
Location Wheatfield

Project Number 5-1862

Lot No: 83

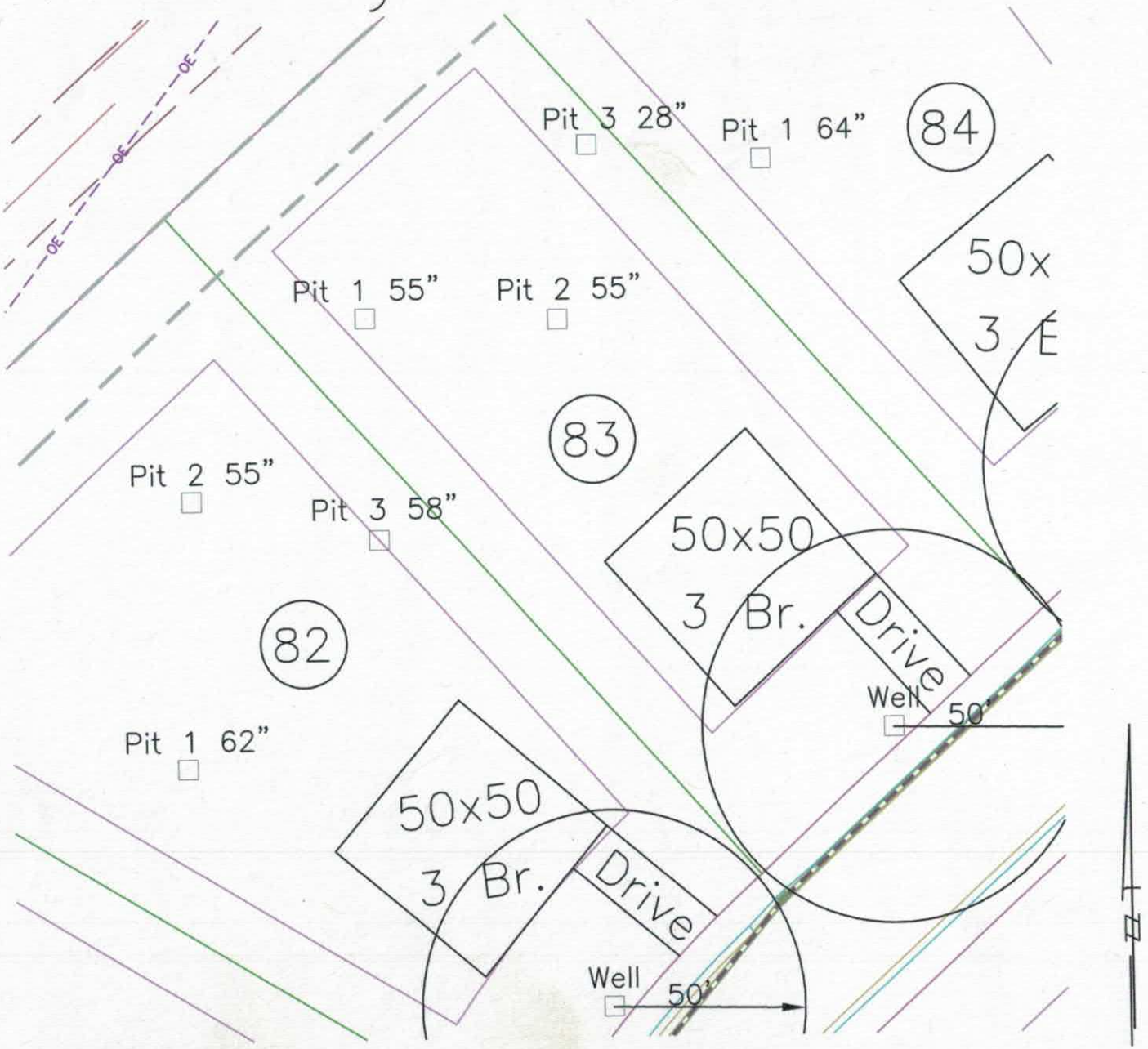
No. of Bedrooms	3	
Design Flow	360	$^{gal}/_{day}$
LTAR	0.275	$^{gal}/_{ft^2\ day}$
EZ-Lay? (YES OR NO)	yes	
Supply Line Length	114	ft.
Supply Line Volume	19.8	gal.
Required Feet of Line	300	ft.
Amount of Line from Layout	330	ft.
Gallons per Minute	35.78	$^{gal}/_{min}$
Required Septic Tank Capacity	1000	gal.
Minimum Standard Tank Size	1000	
Lateral Line Volume	215.49	gal.
Dosing Volume	183.16	gal.

Note: Dosing Volume based on 85% of the lateral line volume.



Tank Draw Down	8.7	*Generic Draw Down of 21 gal.per in.*
Pump Run Time	5.12	minutes
Estimated Elevation Head	9.7	ft.
Pressure Head	2	ft.
Friction Factor	0.84	ft./100 ft.
Friction Head	2.740	ft.
Total Dynamic Head (+15%)	16.61	ft.

Not A Survey



PROJECT NO. #5-1862
PROJECT MGR. BF
DRAWN BY E.B.
FIELD WORK E.B.
SCALE 1" = 40
FILE Y:\jobs\5-1862

Soil & Environmental Consultants, PA
238 Loffville Court, Suite C • Concord, North Carolina 28025 • Phone (704)720-9405 • Fax (704) 720-9400
S&EC

Wheatfield lot 83
Corinthian Builders
- Wheatfield lot 83 -
IREDELL COUNTY, NORTH CAROLINA
DEC 2007

SHEET TITLE:
Preliminary Site Plan
SKETCH MAP

SHEET
1 OF 1

DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

Sheet ___ of ___
PROPERTY ID #: _____
COUNTY: IREDELL

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: ___CORINTHIAN BUILDERS_____ APPLICATION DATE_____
ADDRESS:_____OSWALT AMITY RD_____ DATE EVALUATED: 12/10/07_____
PROPOSED FACILITY: __ 3 Bedroom___ PROPOSED DESIGN FLOW (.1949): 360 gpd___ PROPERTY SIZE: _____
LOCATION OF SITE: LOT 83___ _____ PROPERTY RECORDED: _____
WATER SUPPLY: Private Public ΞWell Spring Other _____
EVALUATION METHOD: ΞAuger Boring ΞPit Cut TYPE OF WASTEWATER: ΞSewage Industrial Process Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	SOIL MORPHOLOGY (.1941) .1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	L 2-5%	0-11	WFGR / SCL	NS NP FR / NEXP	>55	>55	NA	S	PS .325 .3
		11-34	MMSBK / C	SS SP FI / SEXP					
		34-55+	WFSBK / CL	SS SP FR / SEXP					
2	L 2-5% 5%0	0-7	WFGR / SCL	NS NP FR / NEXP	>55 C-faint mel/br to 34"	>55	NA	S	PS .325 .275 36" TB
		7-41	MFSBK / C	SS SP FI / SEXP					
		41-55+	WFSBK / CL	SS SP FR / SEXP					
3	L 2-5%	0-7	WFGR / SL	NS NP FR / NEXP	>55 C-yel	>55	NA	S	PS .3 .275 ≥36" TB
		7-28	WFSBK / SCL	SS SP FR / SEXP					
		28-37	MMSBK / C	SS SP FI / SEXP					
		37-55	WFSBK / CL	SS SP FR / SEXP					
4		D-8	wk gr sl		Red Red f-C yel brown				.275 ≥36" TB
		8-18	mod sbk scl						
		18-36	mo stk blk C						
		36-57	wk stk cl						

LICENSED SOIL SCIENTIST — JAMES WENDELL OVERBY — 1218 — STATE OF NORTH CAROLINA

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)		
System Type(s)		
Site LTAR	0.325	0.3

OTHER FACTORS (.1946): ___ps_____
SITE CLASSIFICATION (.1948): ___ps_____
EVALUATED BY: ___Fulton Bailey_____
OTHER(S) PRESENT: _____

COMMENTS:___PIT 3 WET 28-36

IREDELL COUNTY HEALTH DEPARTMENT

Application For Improvement Permit and/or Authorization To Construct, Existing System Inspection

(THE ABOVE PERMIT DOCUMENTS WILL BECOME INVALID IF INFORMATION PROVIDED ON THIS APPLICATION IS FALSIFIED OR CHANGED, OR IF THE SITE IS ALTERED. THE IMPROVEMENT PERMIT IS VALID FOR EITHER 60 MONTHS OR WITHOUT EXPIRATION DEPENDING UPON DOCUMENTATION SUBMITTED - APPLICATION WITH SITE PLAN 60 MONTHS, APPLICATION WITH COMPLETE, SCALED PLAT WITHOUT EXPIRATION. SEE 15A NCAC 18A .1937(f) FOR DETAILS)

1. APPLICATION FOR: ✓ Improvement Permit ___ Authorization To Construct ~~X~~ BOTH ___ Existing System Inspection

2. Page 2: *Site Plan Worksheet* Form MUST Accompany This Application
   The following optional attachments may also be submitted: *Place check ( ) beside whichever is submitted if applicable*
   ___ Survey Plat, Scaled no more than 1 Inch = 60 Feet
   X Custom Site Plan, Scaled no more than 1 Inch = 60 Feet

3. Applicant Information:

Applicant Name	Mailing Address	Home Phone	Work Phone
~~Corinthian Builders Ltd~~ ~~STEC, PA (Agent)~~	PO Box 990 Denver NC 28037 ~~236 Lomand Ct STE C Cornelius NC 28031~~		(704) 400-1258 ~~704-720-9705~~
Owner Name: Troutman Farms of the Carolinas, LLC	PO Box 3421 Mooresville NC 28117		704-664-4822

4. Property Information:

Street Address	Subdivision Name	Section/Phase and Lot Number
0 Wheatfield Dr. Cleveland, NC 27013	Wheatfield	Ph 1 Lot 83

Driving Directions: _____

****

5. RESIDENTIAL Site Development Information: *(Check or Complete ALL that apply)*

- (X) New, Single Family Residence
- ( ) New, Multi-Family Residence
- ( ) Expansion of Existing Septic System
- ( ) Repair To Failing Septic System

Maximum Number of Bedrooms 3
Maximum Number of Occupants ___
If Expansion, Current Number of Bedrooms ___

- (X) Crawl Space Foundation?
- ( ) Concrete Slab Foundation?
- ( ) Basement w/Plumbing?
- ( ) Basement w/out Plumbing?

IF Non- Residential Site Development:
Type of Business _____
Square Footage of Building _____
Maximum Number of Employees _____
Maximum Number of Seats _____

****

6. Proposed Water Supply:

(X) New Well ( ) Existing Well ( ) Community Well ( ) City Water ( ) Other Public Water

****

7. Desired Septic System Type: *(You may rank in order of preference, if any)*

( ) Alternative ( ) Conventional (X) Innovative (X) Modified Conventional ( ) Other_____ ( ) No Preference

****

8. Please Answer The Following To The Best of Your Ability:

( ) Yes (X) No Does the site contain any jurisdictional wetlands?
( ) Yes (X) No Is any non-domestic sewage (i.e. industry) to be generated?
( ) Yes (X) No Is the site subject to approval by any other public agency?

****

I have read this application and certify that the information provided herein is true, complete, and correct. Authorized county and state officials are granted right of entry to conduct necessary inspections to determine compliance with applicable laws and rules. I understand that I am solely responsible for the proper identification and labeling of all property lines and corners and making the site accessible so that a complete site evaluation can be performed.

9. Signature: STEC, PA (Agent) — 12-13-07
Property owner or owner's legal representative signature (SIGNATURE REQUIRED) — DATE

FRANK BETZ ASSOCIATES INC.

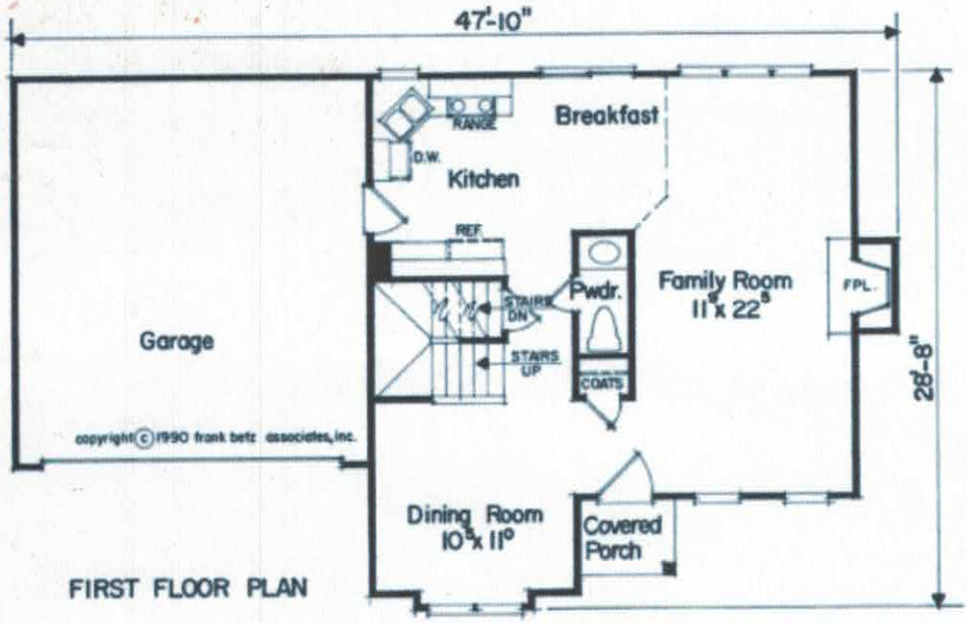
HOMEPLANS Designed for Today's Market

Shopping

HOME | SEARCH PLANS | PRODUCTS | SERVICES | GENERAL INFO | HELP | LINKS

TAHOE

Main | Order Online | Elevation | Main Floor | Upper Floor | Plan Specs | Si



More Options

- COMPARE THIS
- ADD TO MY FA
- PRINTER FRIE
- MODIFY THIS F

Floorplans and Elevations are subject to change. Floorplan dimensions are approximate. Consult working drawings for actual dimensions and information. Elevations are artists' conceptions.

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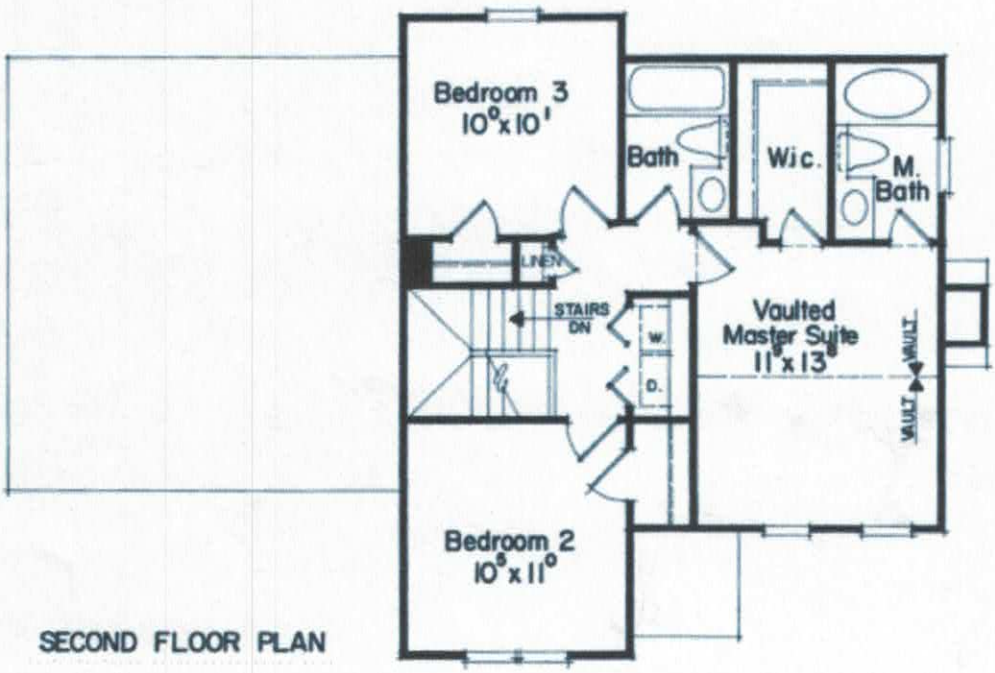
HOMEPLANS
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HOME | SEARCH PLANS | PRODUCTS | SERVICES | GENERAL INFO | HELP | LINK

TAHOE

Main | Order Online | Elevation | Main Floor | Upper Floor | Plan Specs | Si



SECOND FLOOR PLAN

More Options

- COMPARE THIS
- ADD TO MY FA
- PRINTER FRIE
- MODIFY THIS F

Floorplans and Elevations are subject to change. Floorplan dimensions are approximate. Consult working drawings for actual dimensions and information. Elevations are artists' conceptions.

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Iredell County
ZONING PERMIT

227 South Center St. PO Box 788 Statesville, NC 28687 Phone 704-878-3118

Call Sanitarian between 8 a.m. & 9 a.m. Statesville 704-878-5305 Mooresville 704-664-5281

Permit #: 147397ZO
Proposed Use: Single Family
Location of Property: 000 WHEATFIELD DR CLEVELAND NC 27013
Parcel #: 4761331124.083
Lot #: 83 Size: 0.57
Applicant: Corinthian Builders Ltd
Address: PO Box 990
Denver NC 28037
Phone: 704-400-1258
Property Recorded: No Site Plan Reviewed:

Subdivision: WHEATFIELD
Township: 1300 Chambersburg
Zoning: RA
Flood Plain: No Watershed: None
Owner: Troutman Farms of the Carolinas, LLC
Address: PO Box 3421
MOORESVILLE, NC 28117
Phone: 704-664-4822
Community Water: No Community Sewer:

If permitted the following minimum requirements must be met, unless Health Department requires more land area, or other qualifications are indicated in the comments.

Min. Lot Area:
Min. Lot Width: 100
Min. Number Parking Spaces:
Min. Front Yard: 35 ft
Min: Rear Yard: 35 ft
Min. Left Side Yard: 15 ft
Min: Right Side Yard: 15 ft
Max. Built Upon Area:

Comments:
HOLD BLDG PERMIT UNTIL PLAT IS RECORDED

DEVELOPER PERMIT

Directions:
HWY 21S THRU TROUTMAN, LFT ON OSWALT AMITY, RT ON WHEATFIELD, LOT ON LFT

RECEIVED
DEC 13 2007
BY

FEES

Zoning Permit/Inspection Fee	☑	$45.00
Site Plan Review Fee	☐	$0.00
Environmental Health New System	☑	$275.00
Environmental Health Existing System	☐	$0.00
Total Fees:		$320.00

I certify that all statements made in this application and any attached documents are true, complete, and correct to the best of my knowledge and belief and are made in good faith. I understand that false information may be grounds for rejection of this application. Authorized Health Department and Planning & Enforcement Representatives are granted right of entry to make evaluations or inspections and to release information upon public request.

Applicant: Soil + Environmental Consultants, PA (Agent for Applicant) Date: 12-13-07

A non-refundable fee of $45.00 is charged on all permit applications.

PAULA WOODY

Printed: 12/11/2007