CCSC SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

Owner: Meritage Homes
Address: 11600 S Community House Rd Charlotte NC 28277
Proposed Facility: Single Family Design Flow (.1949) 480
Location of Site: Bells Crossing Lot 48
Water Supply: [X] Public [ ] Individual [ ] Well [ ] Spring
Evaluation Method: [ ] Auger Boring [X] Pit [ ] Cut
Type of Wastewater: [X] Sewage [ ] Industrial Process [ ] Mixed

Sheet:
Property ID:
Applicant:
Date Evaluated:
Property Size:
Property Supplied: 1248 Deed

LICENSED SOIL SCIENTIST JASON M. HALL STATE OF NORTH CAROLINA

PROFILE #	1940 Landscape Position/ Slope%	Horizon	Depth (IN.)	SOIL MORPHOLOGY .1941 Structure/ Texture	SOIL MORPHOLOGY .1941 Consistence Mineralogy	PROFILE FACTORS .1942 Soil Wetness/ Color	PROFILE FACTORS .1943 Gw Depth (IN.)	PROFILE FACTORS .1956 Septic Class	PROFILE FACTORS .1944 Restr Horiz	Profile Class & LTAR
A REPAIR	7-10% SS	A	0-3	Gr Loam	VFR NS NP	10YR 3/2				
		Bt1	3-18"	SBK Clay	FI SS SP	10 R 4/8				SSD
		Bt2	18-26"	MASS Clay	FI SS SP	10YR 8/3 Relict 5% → 2.5YR 5/8	UN		UN	S .125 UN
						10YR 6/6 10%				
						10YR 8/3 10%				
		C	26-40	MASS Clay	FI. SS SP	→ 2.5YR 5/8				
						10YR 6/2 20%				
						10YR 6/6 10%				
						10YR 8/3 10%				
B REPAIR		A	0-3"	Gr Loam	VFR NS NP	10YR 3/2				
		Bt	3-22"	SBK Clay	FI SS SP	10 R 4/8				S 0.3
		BC	22-33"	WK SBK CL	FI SS SP	5YR 5/8				S 0.33
		C	33"-48"	SE Loam	VFR NS NP	2.5YR 5/8 → 5YR 5/8	15%			S 0.4
C		A	0-4"	Gr Loam	VFR NS NP	10YR 3/2				
		Bt1	4-28"	SBK Clay	FI SS SP	10 R 4/8				S 0.3
		BC	28-46"	WK SBK CL	FR SS SP	→ 2.5YR 5/8				S 0.33
						10YR 8/2 Relict 5%				
D		A	0-3"	Gr Loam	VFR NS NP	→ 10YR 3/2				
		Bt1	3-26"	SBK Clay	FI SS SP	→ 10R 4/8				S 0.3
		Bt2	26-52	SBK Clay	FI SS SP	→ 10R 4/8				
						10YR 7/8 10%				S 0.3

IN DIAC SYSTEM

Description	Initial System	Repair System
Available Space (.1945)	Yes	Yes
System Type(s)	Accepted	Drip
Site LTAR	0.3	0.125

Other Factors (.1946): Pit'd weathered rock on one side of Pit suitable
Soil Evaluation By: JH, MB
Others Present:
Site Classification (.1948):
Site Evaluation By: Same
Others Present:

OK 8-6-14

Sheet: 2 of 2
Property ID:
Lot #: 48
File #:
AppID:

CCSC SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

Owner: Meritage Homes
Address: 11605 N community House Dr. Charlotte NC 28277
Proposed Facility: Single Family
Design Flow (.1949): 480 gpd
Location of Site: Bells Crossing
Applicant: Sume
Date Evaluated: 7/24/14
Property Size:
Property Recorded:

Water Supply: [X] Public [ ] Individual [X] Well [ ] Spring [ ] Other
Evaluation Method: [ ] Auger Boring [X] Pit [ ] Cut
Type of Wastewater: [X] Sewage [ ] Industrial Process [ ] Mixed

PROFILE #	.1940 Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY .1941 .1941 Structure/ Texture	.1941 Consistence Mineralogy	b PROFILE FACTORS .1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1958 Sapro Class	.1944 Restr Horiz	Profile Class & LTAR
E	SS								
REPAIR	C	0-30	Rock Control	FI NS NP	5YR 5/8		UN		
	C2	30-60	SG SL	VFR NS NP	7.5YR 7/8 20% 5YR 4/6 20%		≤ 0.4		0.4

Description	Initial System	Repair System
Available Space (.1945)	Yes	Yes
System Type(s)	Accepted	TSII DRIP
Site LTAR	0.3	0.1

Other Factors (.1946)
Soil Evaluation By: J H MR
Others Present:
Site Classification (.1948)
Site Evaluation By:
Others Present:

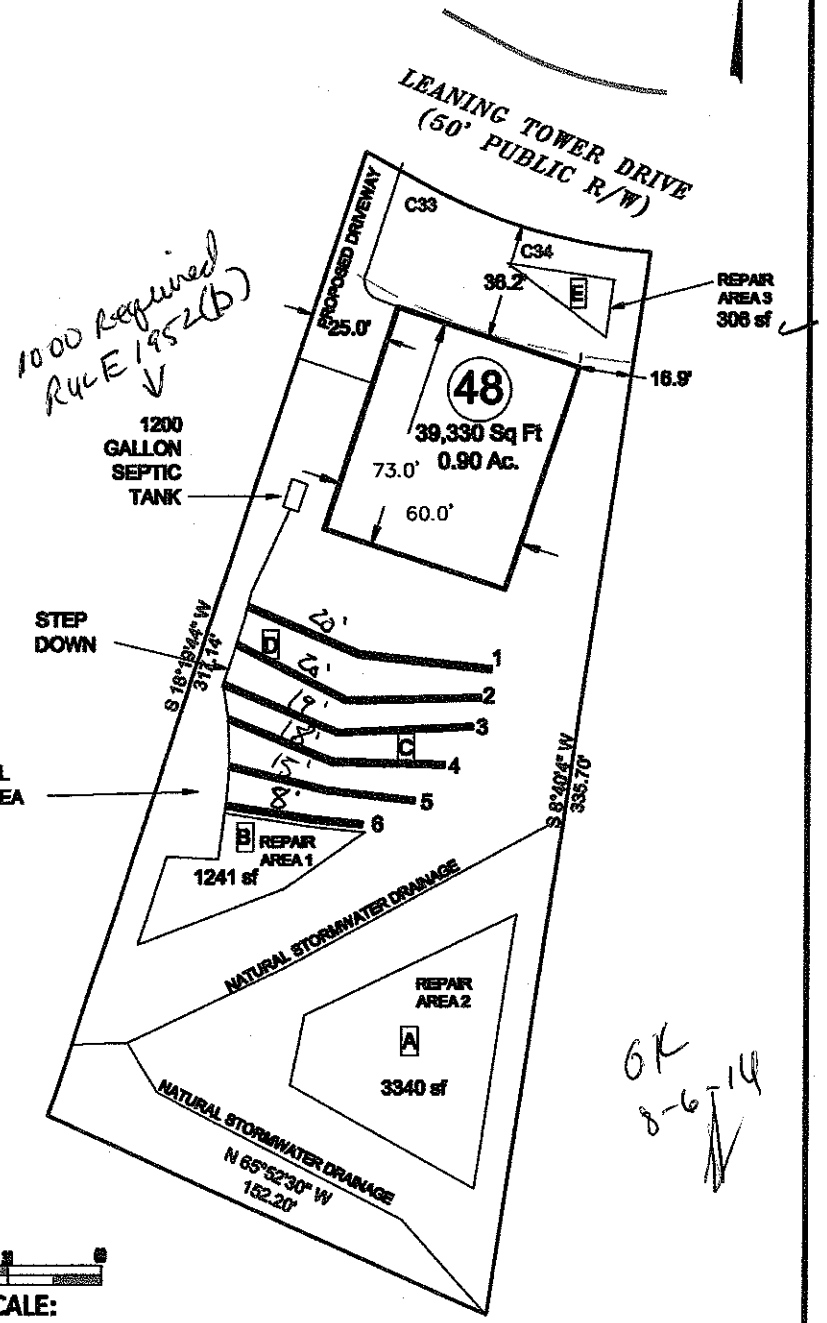
OK 8-6-14

LICENSED SOIL SCIENTIST
JASON M. HA
THE GREAT SEAL OF THE STATE OF NORTH CAROLINA
1248
STATE OF NORTH CAROLINA

RECEIVED JUL 2 4 2014

LINE SCHEDULE

LINE NUMBER	COLOR	FIELD ELEVATION	LENGTH (FT)
1	ORANGE	2	81
2	RED	3.7	80
3	YELLOW	4.8	80
4	BLUE	5.9	72
5	PINK	6	60
6	ORANGE	10.1	44



LOT 48 BELLS CROSSING SUBDIVISION

4-BEDROOM ACCEPTED STATUS GRAVITY SYSTEM
LINES 1-6 TOTAL 417 LINEAR FEET
EZFLOW OR CHAMBER
LTAR 0.3
25% REDUCTION
36" TRENCH DEPTH MAX AFTER COVER IS ADDED

4-BEDROOM SUBSURFACE DRIP REPAIR
LTAR 0.125
AREA NEEDED AT 0.125 LTAR 3840 SF
TOTAL AREA FOR DRIP 4887 SF
6" TRENCH DEPTH MAX IN AREA 1 AND 2
36" TRENCH DEPTH IN AREA 3

FOR GENERAL USE NOT A SURVEY
PRELIMINARY NOT FOR CONSTRUCTION

SOIL PROFILES AND ANALYSIS PROVIDED BY
CENTRAL CAROLINA SOIL CONSULTING PLLC

PRIMARY SYSTEM

REPAIR SYSTEM

REPAIR LINES
(NOT USED)

PIT OR AUGER BORING A

SCALE:
1" = 60 ft.

GK
8-6-14

Bateman Civil Survey Company
Engineers • Surveyors • Planners
350 N. Main Street, Holly Springs, NC 27540 Ph: 919.577.1080 Fax: 919.577.1081
www.batemancivilsurvey.com info@batemancivilsurvey.com
NCBELS Firm No. C-0278

MeritageHomes

LOT 48
BELLS CROSSING SUBDIVISION
MOORESVILLE, NC
IREDELL COUNTY
REVISED 07/24/14
DATE: 07/10/14 DRAWN BY: MB CHECKED BY:TMB

MIKE BENFIELD

704 658-8616

LINE SCHEDULE

LINE NUMBER	COLOR	FIELD ELEVATION	LENGTH (FT)
1	ORANGE	2	81
2	RED	3.7	78
3	YELLOW	4.8	71
4	BLUE	5.9	67
5	PINK	8	59
6	ORANGE	10.1	57

2400
.05 | 600
00
100

5400

OLD

LAY OUT 1470' REPAIR AREA

SHOW DW ON PERMIT BACKHOE PIT ON AREA BETWEEN INITIAL & REPAIR

LEANING TOWER DRIVE
(50' PUBLIC R/W)

PROPOSED DRIVEWAY

C33

C34

36.2'

25.0'

16.9'

48

39,330 Sq Ft
0.90 Ac.

73.0'

60.0'

1200 GALLON SEPTIC TANK

S 18°19'44" W
317.14'

S 8°40'45" W
335.70'

N 65°52'30" W
152.20'

STEP DOWN

1
2
3
4
5
6

D
C
B
A

B REPAIR AREA 1
1470 sf

REPAIR AREA 2
A
3340 sf

DW

OLD

see revised site plan
8-6-14

LOT 48 BELLS CROSSING SUBDIVISION

4-BEDROOM ACCEPTED STATUS GRAVITY SYSTEM
LINES 1-6 TOTAL 413 LINEAR FEET USE 500 FEET
EZFLOW OR CHAMBER
LTAR 0.3
25% REDUCTION
36" TRENCH DEPTH MAX AFTER COVER IS ADDED

4-BEDROOM SUBSURFACE DRIP REPAIR
LTAR 0.125
AREA NEEDED AT 0.125 LTAR 3840 SF
TOTAL AREA FOR DRIP 4810 SF
6" TRENCH DEPTH MAX

FOR GENERAL USE NOT A SURVEY
PRELIMINARY NOT FOR CONSTRUCTION

SOIL PROFILES AND ANALYSIS PROVIDED BY
CENTRAL CAROLINA SOIL CONSULTING PLLC

PRIMARY SYSTEM

REPAIR SYSTEM

REPAIR LINES (NOT USED)

PIT OR AUGER BORING A

SCALE:
1" = 60 ft.

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NCBELS Firm No. C-3205

Meritage Homes

LOT 48
BELLS CROSSING SUBDIVISION
MOORESVILLE, NC
IREDELL COUNTY

DATE: 07/10/14 DRAWN BY: MB CHECKED BY: TMB