BELLS CROSSING PH 1 S/D Lot 10

Contact Information

Client: Meritage Homes
Attn: Robert Price
Street Address: 11605 North Community House Road
Charlotte, NC 28277
Phone: (704) 944-8939
Fax: na

Designer: Bateman Civil Survey Company, PC
Attn: Matt Burdette
Street Address: 200 North Main Street
Holly Springs, NC 27540
Phone: 919-577-1080
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BELLS CROSSING PH 1 S/D Lot 10

Layout/Design Specifications

Facility Type:	Single Family Home	
# of Bedrooms:	4	
Daily Flow:	480	**gal/day**
L.T.A.R.:	0.300	**gal/day/sq.ft**
Trench Depth:	24	**in**
Trench Width:	36	**in**
Stone Depth:	accepted	**in**
Manifold Length:	36	**in**
Manifold Diameter:	4	**in sch 80pvc**
Supply Line Length:	81	**ft**
Supply Line Diameter:	2	**in sch 40pvc**
Supply Line Volume:	14.09	**gallons**
Friction Loss + Fitting Loss:	2.75	**ft(supply line length + 70' for fittings in pump tank)**
Design Head:	2	**ft**
Elevation Head:	14.00	**ft**
Total Head:	18.75	**ft**
Dose Volume:	203.54	**gals**
% of Pipe Vol.	0.75	
Drawdown:	10.10	**in @ 20.16 gal/in**
Pump Run Time:	6.72	**Minutes**
Control Panel:	SJE Rhombus Model112 control panel (or approved equivalent)	
Pump:	Zoeller M140 Flow-Mate (or approved equivalent)	
Tank Effluent Filter:	Zoeller 170-0144 residential effluent filter (or approved equivalent)	
Septic Tank:	1000	**gallon Shoaf**
Pump Tank:	1000	**gallon Shoaf**

OK Tank

APPROVED AUG 24 2015

Pressure Manifold
Septic System Design

for

BELLS CROSSING PH 1 S/D Lot 10
Raleigh, North Carolina

Designed by:

Matt Burdette
Bateman Civil Survey Company, PC
Holly Springs, North Carolina
BCSC Project #: 120314.034

07/30/2015

LINE SCHEDULE

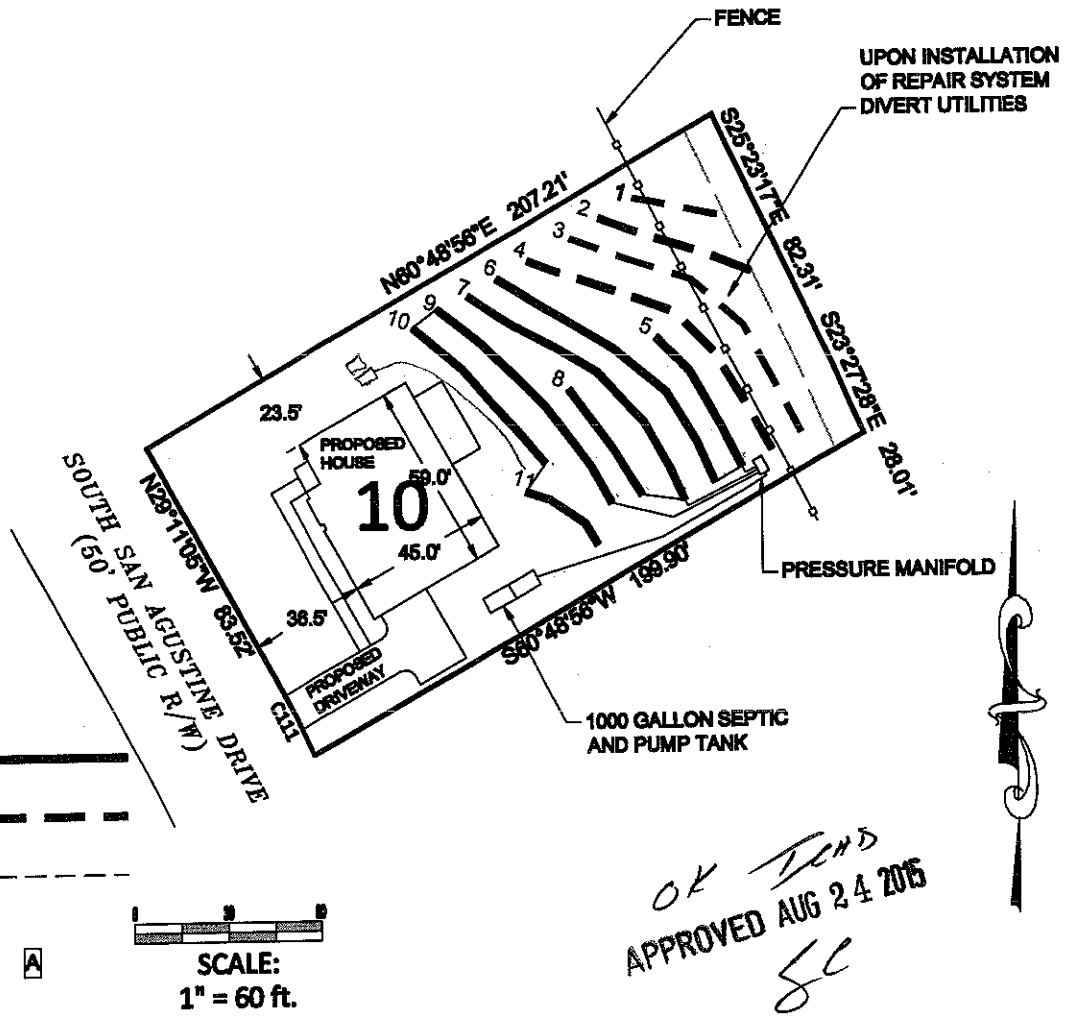
LINE NUMBER	COLOR	FIELD ELEVATION	LENGTH (FT)	DESIGN LENGTH
1	RED	0.7	25	
2	YELLOW	1.4	50	
3	GREEN	2.8	101	
4	RED	3.7	103	
5	ORANGE	4.2	50	50
6	YELLOW	4.4	96	90
7	RED	5.2	96	96
8	GREEN	6.8	41	41
9	ORANGE	8.1	80	60
10	BLUE	9.1	60	50
11	YELLOW	10.7	30	30

LOT 10 BELLS CROSSING SUBDIVISION

4-BEDROOM ACCEPTED STATUS GRAVITY SYSTEM
LINES 5-11 TOTAL 417 LINEAR FEET
EZFLOW OR CHAMBER
LTAR 0.3
25% REDUCTION
24 to 36" TRENCH DEPTH

4-BEDROOM ACCEPTED STATUS GRAVITY SYSTEM
REPAIR
LINES 1-4 TOTAL 279 LINEAR FEET
CHAMBER
LTAR 0.3
50% REDUCTION
24 to 36" TRENCH DEPTH
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.

OK TMB
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SC

Bateman Civil Survey Company
Engineers Surveyors Planners

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NCBELS Firm No. C-0278

MeritageHomes

LOT 10
BELLS CROSSING SUBDIVISION
MOORESVILLE, NC
IREDELL COUNTY
REVISED 08/18/15
DATE: 5/14/15 DRAWN BY: MDB CHECKED BY:TMB