Bells Crossing S/D Lot 32

Layout/Design Specifications

Facility Type:	Single Family Home	
# of Bedrooms:	4	
Daily Flow:	480	**gal/day**
L.T.A.R.:	0.30	**gal/day/sq.ft**
Trench Depth:	24	**in**
Trench Width:	36	**in**
Stone Depth:	chamber	**in**
Manifold Length:	54	**in**
Manifold Diameter:	4	**in sch 80pvc**
Supply Line Length:	188	**ft**
Supply Line Diameter:	2	**in sch 40pvc**
Supply Line Volume:	32.71	**gallons**
Friction Loss + Fitting Loss:	5.47	**ft(supply line length + 70' for fittings in pump tank)**
Design Head:	2	**ft**
Elevation Head:	20.50	**ft**
Total Head:	27.97	**ft**
Dose Volume:	195.24	**gals**
% of Pipe Vol.	.75	
Drawdown:	9.08	**in @ 21.5 gal/in**
Control Panel:	SJE Rhombus Model112 control panel (or approved equivalent)	
Pump:	Zoeller M140 Flow-Mate (or approved equivalent)	
Septic Tank Effluent Filter:	Zoeller 170-0144 residential effluent filter (or approved equivalent)	
Septic Tank:	1000	**gallon**
Pump Tank:	1000	**gallon**

Bells Crossing S/D Lot 32

SYSTEM TAP CHART

Bench Mark:	0	= 100.00	**Manifold elev:**	99.10	
Pump tank elevation:	84.00		**Pump elev:**	78.60	

line	color	rod read	elevation	length	hole size	flow/tap	gal/day
1 & 2	Red / Pink	1.90	98.10	62	1/2in SCH 80	5.48	80.00
3	Blue	2.70	97.30	66	1/2in SCH 80	5.48	80.00
4	Yellow	3.50	96.50	68	1/2in SCH 80	5.48	80.00
5	Pink	3.90	96.10	68	1/2in SCH 80	5.48	80.00
6	Blue	4.20	95.80	68	1/2in SCH 80	5.48	80.00
7	Red	4.80	95.20	68	1/2in SCH 80	5.48	80.00
	P-TANK	16.00	84.00				
		total	**feet =**	**400**	**gal/min =**	**32.88**	
				Des. Flow	480		

Comments:

LINE SCHEDULE

LINE NUMBER	COLOR	FIELD ELEVATION	LENGTH (FT)
1	RED	1.9	22
2	PINK	2.7	40
3	BLUE	3.5	66
4	YELLOW	3.9	68
5	PINK	4.2	68
6	BLUE	4.8	68
7	RED	5.2	68
8	YELLOW	6.0	72
9	PINK	6.8	74
10	BLUE	7.8	77
11	RED	8.5	29
12	YELLOW	9.5	22
13	PINK	10.7	15
	TANKS	15.0	

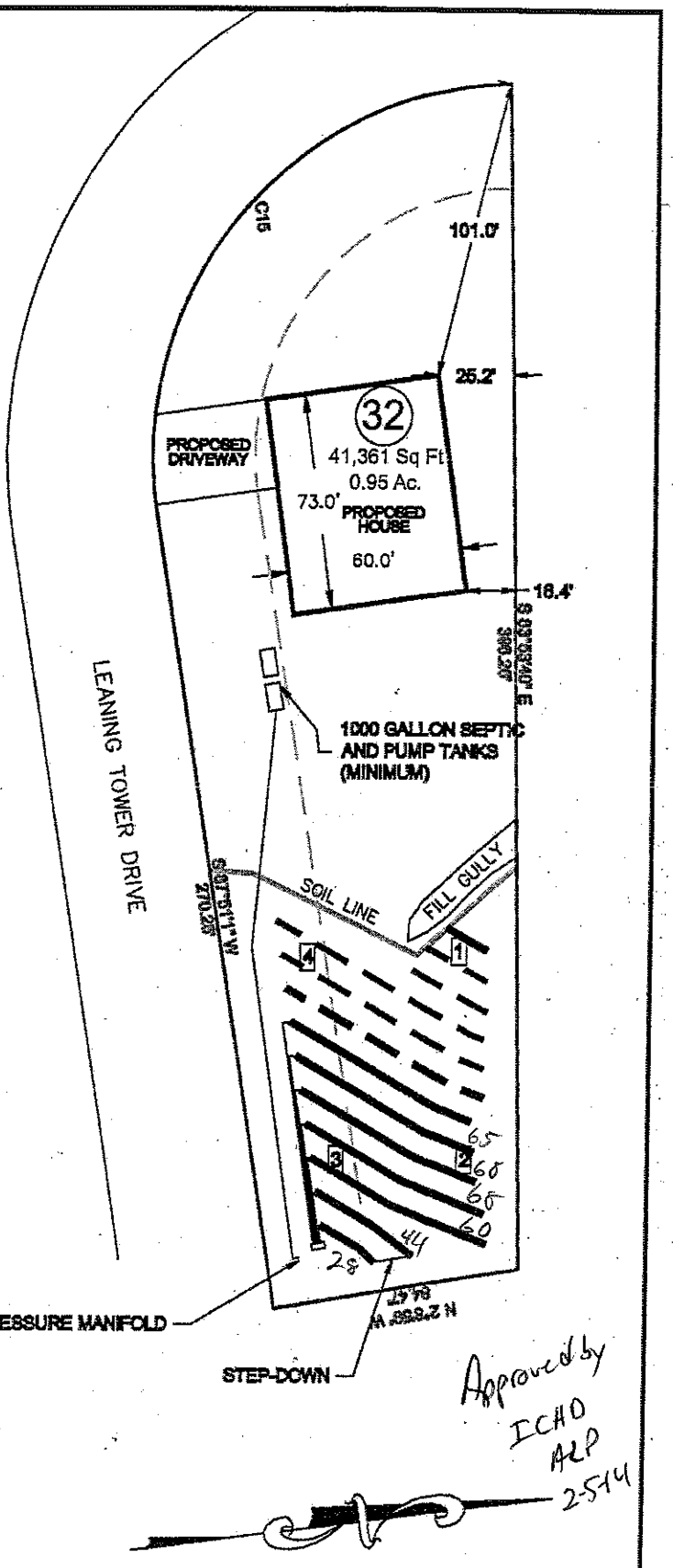
LOT 32 BELLS CROSSING SUBDIVISION

4-BEDROOM ACCEPTED STATUS PRESSURE MANIFOLD SYSTEM
LINES 3-7 TOTAL 400 LINEAR FEET
EZFLOW OR CHAMBER
LTAR 0.3
25% REDUCTION
19" TRENCH DEPTH MAX

4-BEDROOM LPP FED PANEL BLOCK REPAIR
LINES 8-14 TOTAL 289 LINEAR FEET
ADD 6" OF COUNTY APPROVED SOIL COVER
LTAR 0.3
50% REDUCTION
30" 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 [1]

SCALE:
1" = 60 ft.

Approved by ICHD ARP 2-5-14

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MeritageHomes

LOT 32
BELLS CROSSING SUBDIVISION
MOORESVILLE, NC
IREDELL COUNTY
revised 02/04/14
DATE: 12/06/13 DRAWN BY AH CHECKED BY: TMB