## Lot 58 Chesapeake Pointe Fast Track Septic System Information

| | |
|---|---|
| **Number of Bedrooms** | **5** |
| **Basement or Crawl** | **Crawl Space** |
| **Design Flow (gpd)** | **600** |
| **Primary System LTAR (gpd/ft2)** | **0.3** |
| **Primary System Type** | **25% Reduction** |
| No. Lines | 5 (See Table) |
| Total Linear Feet | 500 |
| Trench Width | 3' min. |
| Trench Spacing | 9' min. |
| Pump Required | Yes |
| Distribution Device | Pressure Manifold |
| Maintenance Agreement Required | No |
| Length and Diameter of Supply Pipe | 145' of 2" SCH 40 PVC |
| Flow Rate through the system | 27.5 gpm |
| Elevation head | Approx. 13.1' |
| Pressure head | 2.0' |
| Friction head | 2.3' |
| 20% Contingency | 3.5' |
| Total Head | 20.9' |
| Pump Requirements | 27.5 gpm @ 20.9' of head; use Goulds WE03M pump or equivelent with compatible electrical |
| Maximum Dosing Volume | 300 gal -2.0 doses/day @ design flow |
| Volume of water pumped per dose | Calculated to specific tank by measure or dealer engineering specifications ( 1 cubic ft. of water equals 7.48 gal.) |
| Pump Run per dose | approx. 10.9 min. |
| Check Valve | No |
| Siphon Break hole | Yes |
| **Repair System** | **LP PPBPS** |
| Total Linear Feet | 423 |
| Repair Loading Rate | 0.3 |

## Table: Summary of Primary and Repair Nitrification Line Specifications

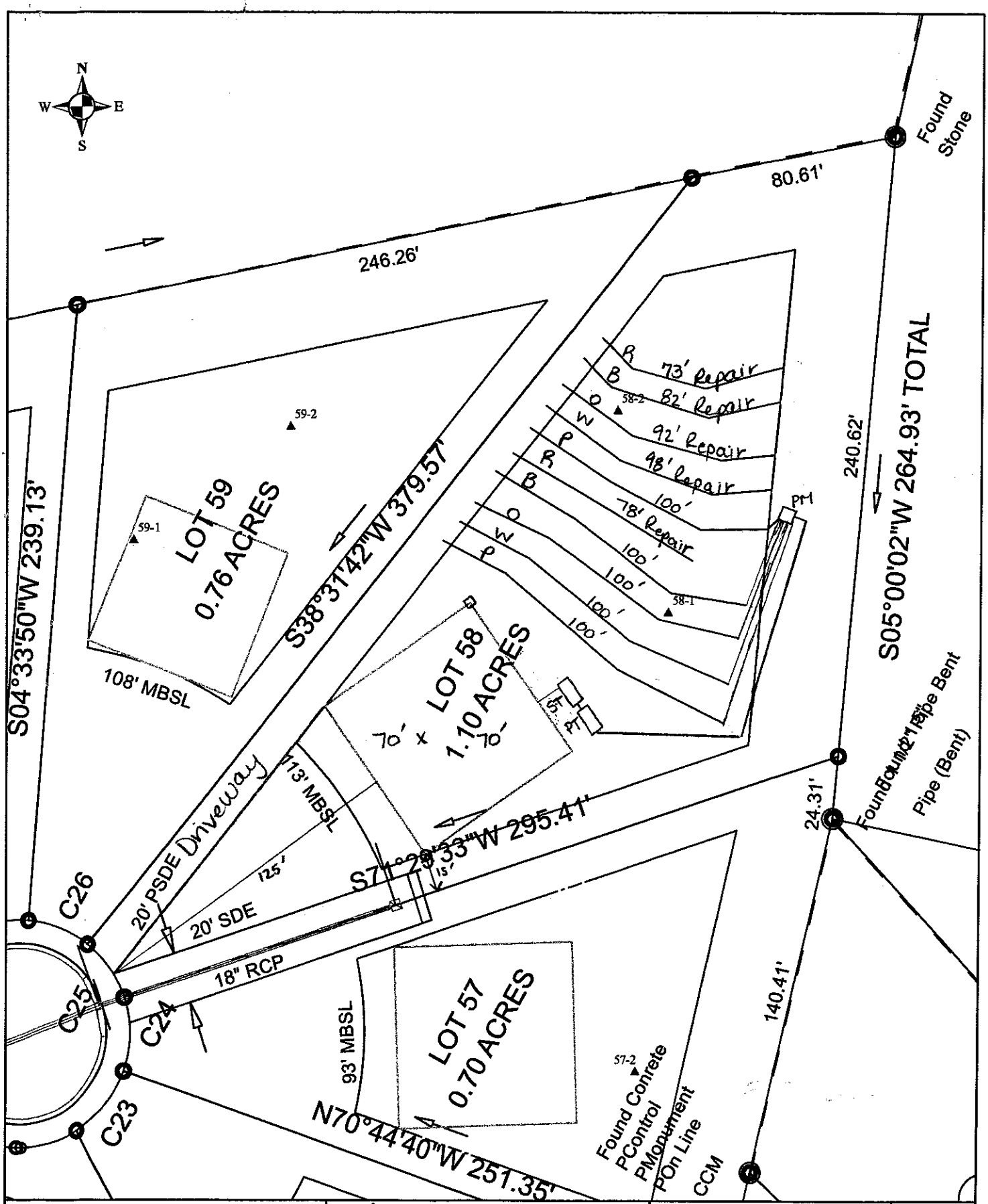
| Line No. | Use | Line Color | System Type | Line Length (Ft.) | Rod Reading Elevation (Ft.) |
|---|---|---|---|---|---|
| 1 | Repair | Red | LP PPBPS | 73 | 1.5 |
| 2 | Repair | Blue | LP PPBPS | 82 | |
| 3 | Repair | Orange | LP PPBPS | 92 | |
| 4 | Repair | White | LP PPBPS | 98 | |
| 5 | System | Pink | 25% Reduction | 100 endfed | |
| 6 | Repair | Red | LP PPBPS | 78 | |
| 7 | System | Blue | 25% Reduction | 100 endfed | |
| 8 | System | Orange | 25% Reduction | 100 endfed | |
| 9 | System | White | 25% Reduction | 100 endfed | |
| 10 | System | Pink | 25% Reduction | 100 endfed | 7.3 |
| | | | | Total System: 402' | |
| | | | | Total Repair: 423' | |

| | | | |
|---|---|---|---|
| Tank | Red | 1000 gal (2 compartment) | 8.6 |
| Pump Tank | Red | 1000 gal. | 8.6 |
| House | Blue | | 8.1 |

| Manifold Information | |
|---|---|
| Tap Size (In.) | 1/2 |
| Tap Material | SCH 80 PVC |
| No. Taps | 5 |
| Barrel Size (In.) | 4 |
| Barrel Material | SCH 80 PVC |
| Flow (gpm)/Tap | 5.5 |

1500 Required!

**Note: Remove old Berms**




| | | | |
|---|---|---|---|
| Scale: 1 inch equals 50 feet | S&ME | Lot 58 Chesapeke Point | FIGURE |
| Drawn by: JBP | | Detailed, Scaled Site Plan | 1 |
| Reviewed by: KS | | Iredell County, NC | |
| Date: September, 2006 | ENVIRONMENTAL SERVICES • ENGINEERING • TESTING | S&ME Project #1588-04-011 | |

PARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
VISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

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

# SOIL/SITE EVALUATION
## *for* ON-SITE WASTEWATER SYSTEM

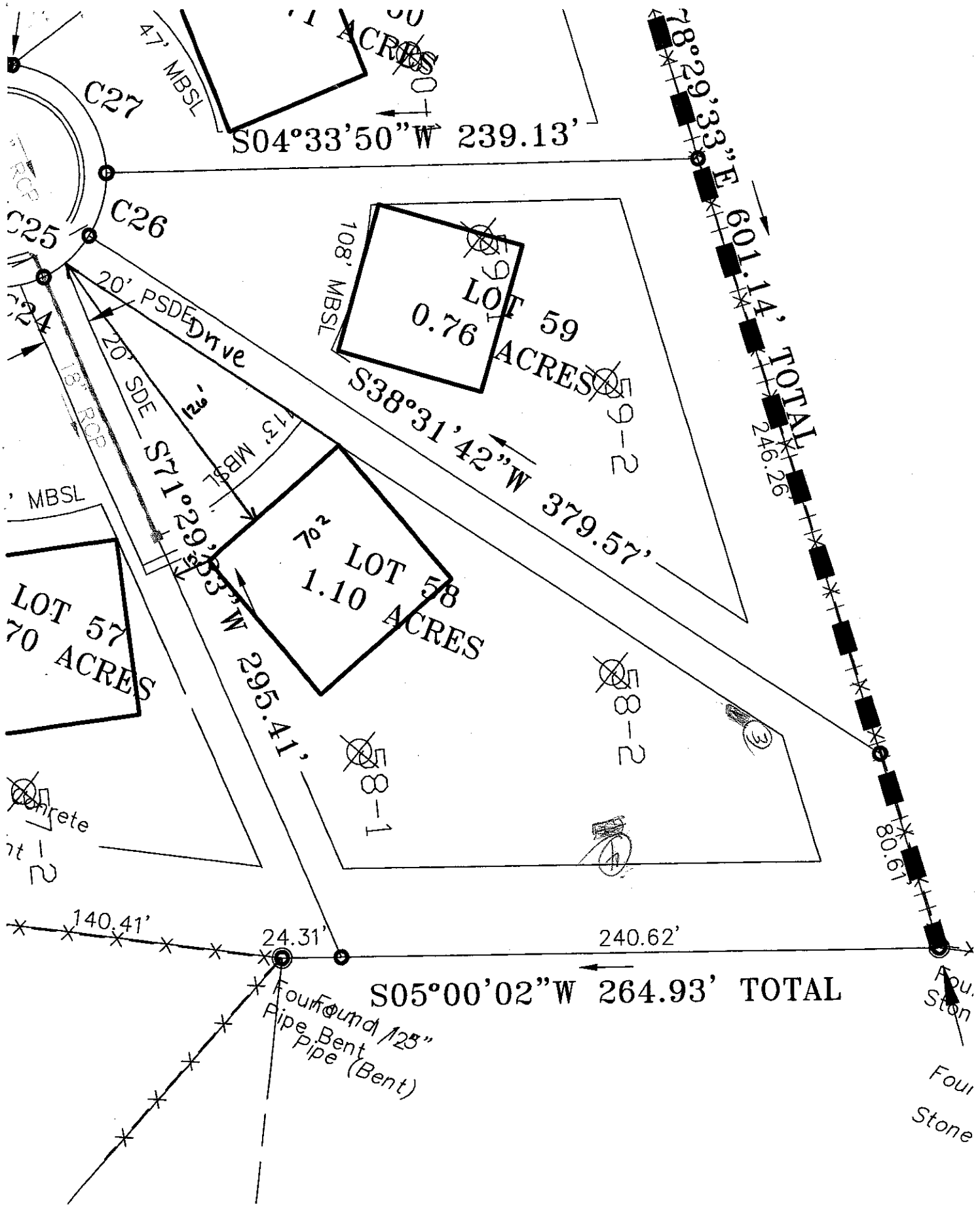
OWNER: Chesapeake Pt
ADDRESS: _____ APPLICATION DATE _____
PROPOSED FACILITY: _____ PROPOSED DESIGN FLOW (.1949): _____ DATE EVALUATED: 7/25/06
LOCATION OF SITE: Lot 58 PROPERTY SIZE: _____
WATER SUPPLY: ☒ Private ☐ Public ☐ Well ☐ Spring ☐ Other _____ PROPERTY RECORDED: _____
EVALUATION METHOD: ~~☒~~ Auger Boring ☒ Pit ☐ Cut TYPE OF WASTEWATER: ☒ Sewage ☐ Industrial Process ☐ Mixed

| PROFILE # | .1940 LANDSCAPE POSITION/ SLOPE % | HORIZON DEPTH (IN.) | SOIL MORPHOLOGY (.1941) | | OTHER PROFILE FACTORS | | | | PROFILE CLASS & LTAR |
|---|---|---|---|---|---|---|---|---|---|
| | | | .1941 STRUCTURE/ TEXTURE | .1941 CONSISTENCE/ MINERALOGY | .1942 SOIL WETNESS/ COLOR | .1943 SOIL DEPTH | .1956 SAPRO CLASS | .1944 RESTR HORIZ | |
| 1 | L 6-8% | 0-5 | mgr sl | FR ss/sp | Dk br | | | | PS 0.3 |
| | | 5-22 | msbk c | F ss/sp | & M Mica Flakes | | | | |
| | | 22-51 | wsbk cl | FR ss/sp | R Mj Mica Flakes | | | | |
| | | | | | FJC sap/mica | | | | |
| 2 | L 4-6% | 0-5 | wsbk sl | FR ss/sp | RS | | | | PS 0.3 |
| | | 5-29 | msbk c | FR ss/sp | R | | | | |
| | | 29-53 | wsbk cl | FR ss/sp | R Few sap/mica | | | | |
| 3 | | 0-7 | wksbk lam sl | fr ss/sp | | | | | .3 |
| | | 7-30 | sbk sc | fr ss/sp | | | | | |
| | | 30-52 | wksbk cl | fr ss/sp | | | | | |
| 4 | 4-5% L | 0-3 | gr | fr ss/sp | | | | | .3 |
| | | 3-23 | wksbk sc | fr ss/sp | | | | | |
| | | 23-48 | wk up c/cl | fr ss/sp | | | | | |

| DESCRIPTION | INITIAL SYSTEM | REPAIR SYSTEM |
|---|---|---|
| Available Space (.1945) | | |
| System Type(s) | | |
| Site LTAR | | |

OTHER FACTORS (.1946): _____
SITE CLASSIFICATION (.1948): _____
EVALUATED BY: M Male
OTHER(S) PRESENT: _____

COMMENTS: _____


C27
C26
C25
47' MBSL
S04°33'50"W 239.13'
S78°29'33"E 601.14' TOTAL
246.26'
80.61'
108' MBSL
LOT 59
0.76 ACRES
59-2
S38°31'42"W 379.57'
20' PSDE Drive
20' SDE
S71°29'53"W 295.41'
13' MBSL
LOT 58
1.10 ACRES
58-2
58-1
LOT 57
70 ACRES
MBSL
18" RCP
140.41'
24.31'
240.62'
S05°00'02"W 264.93' TOTAL
Found 1/2" Pipe Bent
Found Pipe (Bent)
Stone
GRAPHIC SCALE
50 25 0 50
SCALE: 1" = 50'

LOT 58