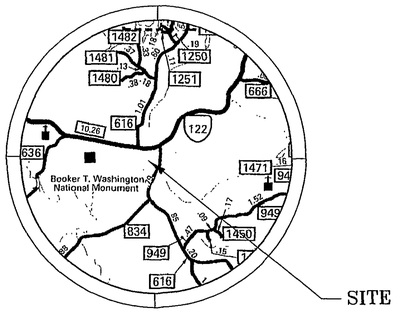
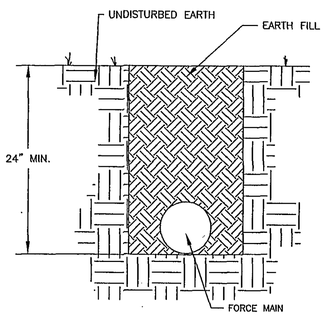


LOCATION MAP



FORCE MAIN TRENCH

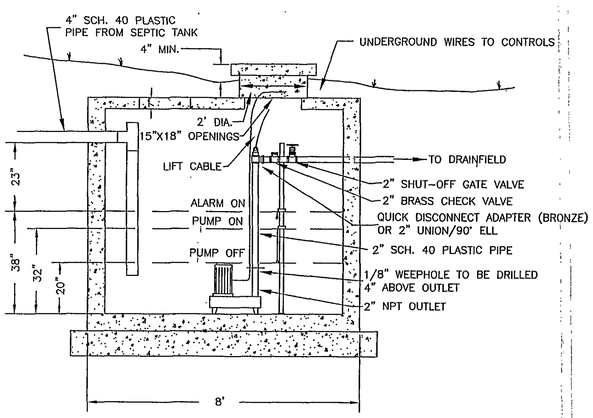
N.T.S.

PROPOSED DRAINFIELD DATA

8 LINES (ON CONTOUR)
70' LONG
3' WIDE
10' CENTERS
54" DEPTH
13" AGG. DEPTH

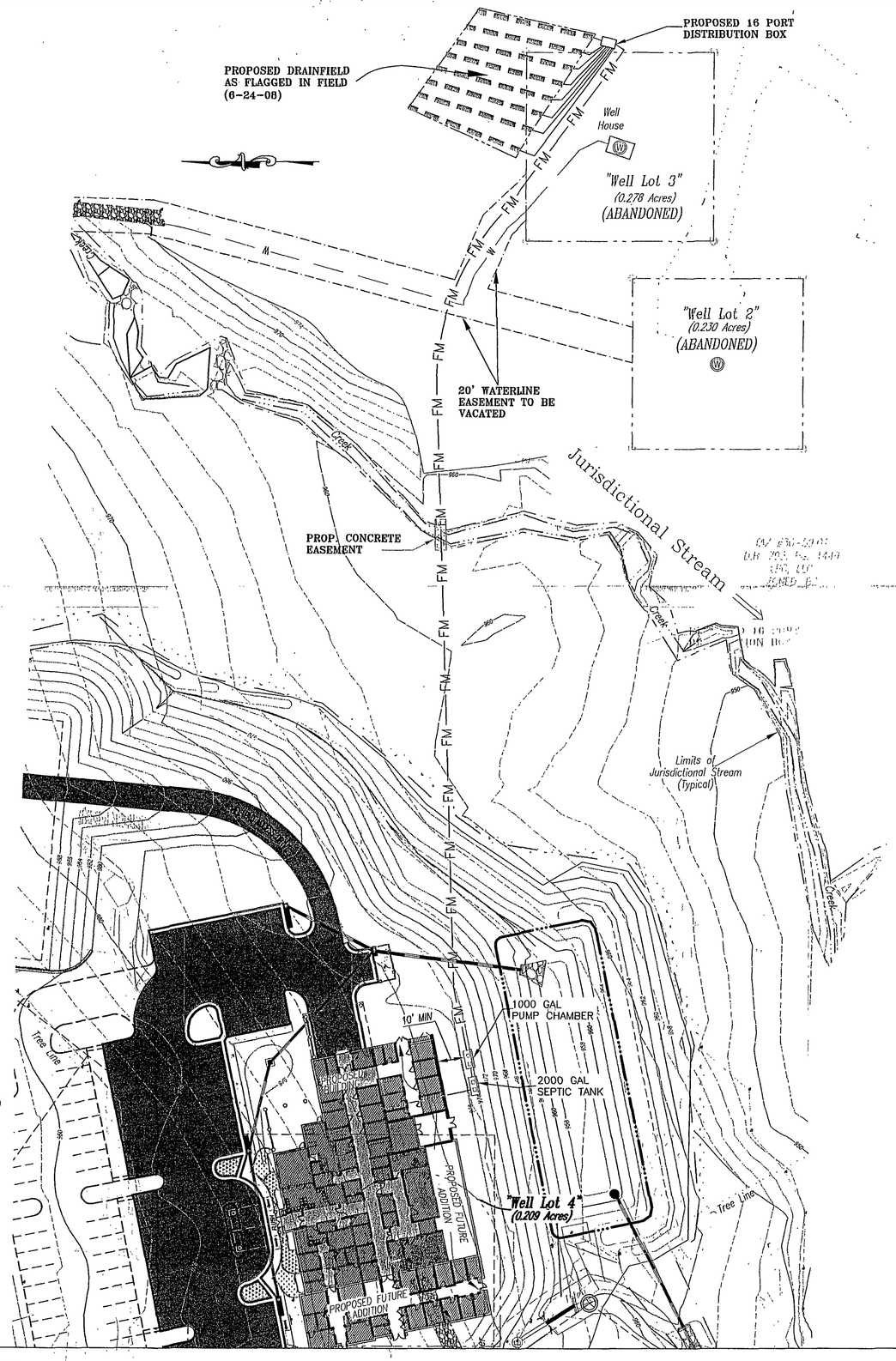
DESIGN INFORMATION

STATIC HEAD	40.7 FT
FRICTION HEAD	16.7 FT
TOTAL DYNAMIC HEAD	57.4 FT
FLOW RATE	36 GPM
FORCE MAIN VELOCITY	3.7 FT/S
PUMP RUN TIME/CYCLE	5.6 MIN
WORKING VOLUME	200 GAL.
STORAGE VOLUME	381 GAL.



STANDARD 1,000 GALLON PRECAST PUMP CHAMBER

N.T.S.



LEGEND

- PROPERTY LINE
- DEED LINE
- DRAINFIELD LINE
- ABANDONED WELL
- WATER LINE
- PROPOSED FORCE MAIN

GENERAL NOTES AND SPECIFICATIONS

1.) PUMP: GOULDS MODEL 3885, WE10H, SINGLE PHASE, 230 VOLTS OR APPROVED EQUAL.

2.) PUMP CONTROLS: SWITCHES – GOULDS A2-3 (2 REQUIRED) OR A2-7 (1 REQUIRED) OR APPROVED EQUAL.
CONTROLS – GOULDS A3 SIMPLEX PUMP CONTROL A3-2012 OR APPROVED EQUAL.

3.) ALARMS TO BE MOUNTED ON INTERIOR OF STRUCTURE OR INSIDE NEMA III ENCLOSURE. SEPARATE ELECTRICAL CIRCUIT TO BE PROVIDED. AUDIO/VISUAL ALARM GOULDS MODEL A4-2. DISCONNECT SWITCH TO BE LOCATED ON BUILDING WITHIN SIGHT OF PUMP CHAMBER.

4.) ALL CONSTRUCTION OF THESE SEWERAGE SYSTEMS TO BE IN ACCORDANCE WITH THE STATE BOARD OF HEALTH SEWERAGE HANDLING AND DISPOSAL REGULATIONS.

5.) PIPING AND VALVES: ALL GRAVITY LINES AND FORCE MAINS OUTSIDE PUMP STATION TO BE SCHEDULE 40 PVC AND BEDDED TO PROVIDE UNIFORM SUPPORT ALONG THE LENGTH OF THE SEWER. ALL TRENCHES SHALL BE BACKFILLED WITH SUITABLE MATERIAL FREE OF LARGE STONES AND DEBRIS AND TAMPED TO PREVENT MOVEMENT AS SOON AS POSSIBLE. ALL FORCE MAIN PIPES SHALL BE TESTED TO 50 PSI FOR ONE HOUR WITH NO LEAKAGE PERMITTED. FORCE MAINS SHALL HAVE PRESSURE FITTINGS.

6.) TANKS, CONVEYANCE LINES, DISTRIBUTION BOX, AND DRAINFIELD MUST BE LOCATED A MINIMUM OF 5' FROM PROPERTY LINES, 10' FROM BUILDING FOUNDATIONS, 20' FROM BELOW GRADE BASEMENTS, 100' FROM ANY CLASS C WELL, 50' FROM ANY CLASS B WELL, 10' FROM UTILITY LINES, AND 50' FROM TOP OF RIP RAP

7.) ALL PRECAST SEPTIC TANKS SHALL BE BEDDED WITH A MINIMUM OF 6 INCHES OF SAND OR FINE GRAVEL WHERE ROCK OR OTHER UNDESIRABLE CONDITION ARE ENCOUNTERED. TANKS SHALL BE BACKFILLED WITH SUITABLE MATERIAL FREE OF LARGE STONES AND DEBRIS AND TAMPED IN LAYERS TO PREVENT SETTLEMENT.

8.) LOCATIONS OF SEPTIC TANK, PUMP STATION AND PIPE LINES ARE APPROXIMATED AND ARE SUBJECT TO MINOR ADJUSTMENTS DURING CONSTRUCTION. ANY SIGNIFICANT DEVIATIONS MUST BE APPROVED BY THE ENGINEER AND THE LOCAL HEALTH DEPARTMENT.

9.) DRIVEWAY SHALL NOT BE CONSTRUCTED OVER DRAINFIELD UNLESS THE TOP OF THE GRAVEL IS DEEPER THAN 30 INCHES AND THE DRIVEWAY IS PAVED WITH PORTLAND CEMENT OR BITUMINOUS CONCRETE AND MUST NOT COVER DISTRIBUTION BOX.

10.) ALL TREES AND OTHER HYDROPHILLIC PLANTS SHALL BE REMOVED FROM WITHIN 10' OF DRAINFIELD AREA.

11.) DISTRIBUTION BOX TO BE LEFT UNCOVERED UNTIL ENGINEER'S FINAL INSPECTION.

12.) DIVERT ALL ROOF DRAINS AND SURFACE WATER AWAY FROM THE DRAINFIELD AREA.

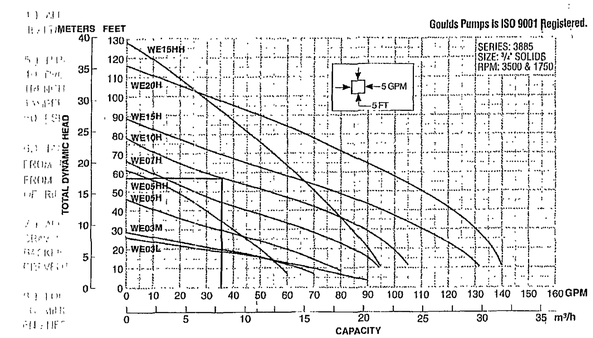
13.) MAINTAIN 18" VERTICAL SEPARATION BETWEEN THE WATER LINE AND SEWER FORCE MAIN WITH WATER LINE ABOVE.

14.) DRIVEWAY MUST BE PAVED IF IT RUNS OVER THE DRAINFIELD AREA AT ANY POINT.

15.) WATER LINE MUST MAINTAIN 10' MINIMUM SEPARATION DISTANCE FROM ANY PART OF THE DRAINFIELD AND FORCE MAIN.

16.) ALL BOUNDARY AND PROPERTY INFORMATION PER DEVELOPMENT PLAN FOR CARILION WESTLAKE MEDICAL BUILDING BY LUMSDEN ASSOCIATES, P.C. (COMM. NO. 08049)

17.) CONSTRACTOR TO CALL AOSE FRANK DAVIS AT 483-4914 A MINIMUM OF 3 DAYS PRIOR TO FINAL INSPECTION.



PUMP CURVE

RESERVED FOR FRANKLIN CO. HEALTH DEPARTMENT

FRANKLIN COUNTY
HEALTH DEPARTMENT
THE INFORMATION CONTAINED HEREIN HAS BEEN REVIEWED BY THIS OFFICE AND THE BOX INDICATED BELOW INDICATES ACTION TAKEN:

- [x] APPROVED
- [ ] APPROVED AS CORRECTED
- [ ] REVISE AND RESUBMIT
- [ ] REJECTED

REMARKS: _____

SIGNATURE _____ DATE 8/5/08

REVISIONS			
DESCRIPTION	DATE	APPROVAL	

Stone Engineering
P.O. Box 1058
Rocky Mount, Virginia 24151
(540) 483-0078
(540) 483-5250 Fax

COMMONWEALTH OF VIRGINIA
RODNEY DEAN STONE
Lic. No. 032060
07-16-08
PROFESSIONAL ENGINEER

DESIGN: BX
DRAFT: BX
CHECK: RDS

SEWERAGE SYSTEM FOR CARILION WESTLAKE MEDICAL BUILDING

LOCATED ON LOT 7, WESTLAKE TOWN CENTER
GILLS CREEK MAGISTERIAL DISTRICT
FRANKLIN COUNTY, VIRGINIA

DATE: 07-16-08
SCALE: N.T.S.
PERMIT NO. 133-08-0219
SHEET 1 OF 1
PROJECT NO. 08050

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