

1260 Bay Rd



WILLIAM J. SIERUTA, P.E.  
REGISTERED PROFESSIONAL ENGINEER  
46 UPLAND ROAD  
HOLYOKE, MASSACHUSETTS 01040  
(413) 532-8525

Board of Health  
Town Hall  
Inspection Services  
Amherst, MA. 01002

Subject: As built inspection -Septic system  
1260 Bay Road  
South Amherst, MA.  
David Allen

The subject septic system has been installed in accordance with the approved plans, 310 CMR 15 and local Board of Health regulations.

If you need any additional information please do not hesitate to contact me.

Very truly yours,

*William J. Sieruta, P.E.*

William J. Sieruta, P.E.

*(mbs)*



cc: D. Allen

WJS:mbs



William G. Brewster, Jr.

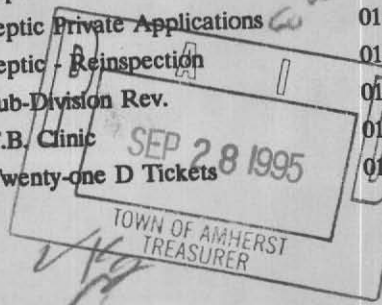
(1898)

David S. Allen  
1260 Bay Road  
Westport, MA.  
CRK 1248

253-4239

# TOWN OF AMHERST Health Department

<input type="checkbox"/> Bakery	01-0-501-4433-00	<input type="checkbox"/> Offal/Garbage	01-0-501-4472-00
<input type="checkbox"/> Bed & Breakfast	01-0-501-4474-01	<input checked="" type="checkbox"/> Perc Test <i>100</i>	01-0-501-4344-00
<input type="checkbox"/> Burial Permit	01-0-501-4475-00	<input type="checkbox"/> Retail Permit	01-0-501-4473-00
<input type="checkbox"/> Car Seat Rental	89-0-000-2557-00	<input type="checkbox"/> Sanitary Code Booklet	01-0-501-4380-00
<input type="checkbox"/> Catering	01-0-501-4429-00	<input type="checkbox"/> Septic Installers Permit	01-0-501-4470-01
<input type="checkbox"/> Food Handler	01-0-501-4474-00	<input checked="" type="checkbox"/> Septic Private Applications <i>60's</i>	01-0-501-4470-00
<input type="checkbox"/> Housing Inspection	01-0-501-4348-00	<input type="checkbox"/> Septic Reinspection	01-0-501-4345-00
<input type="checkbox"/> Massage	01-0-501-4425-00	<input type="checkbox"/> Sub-Division Rev.	01-0-501-4460-00
<input type="checkbox"/> Motel License	01-0-501-4428-00	<input type="checkbox"/> T.B. Clinic	01-0-501-4379-00
<input type="checkbox"/> Miscellaneous	01-0-501-_____	<input type="checkbox"/> Twenty-one D Tickets	01-0-501-4879-00



TOTAL FEE 160.00

David S. Allen      9-28-95  
Treasurer/Collector      Date

David Ziegler      9/29/95  
Health Department      Date

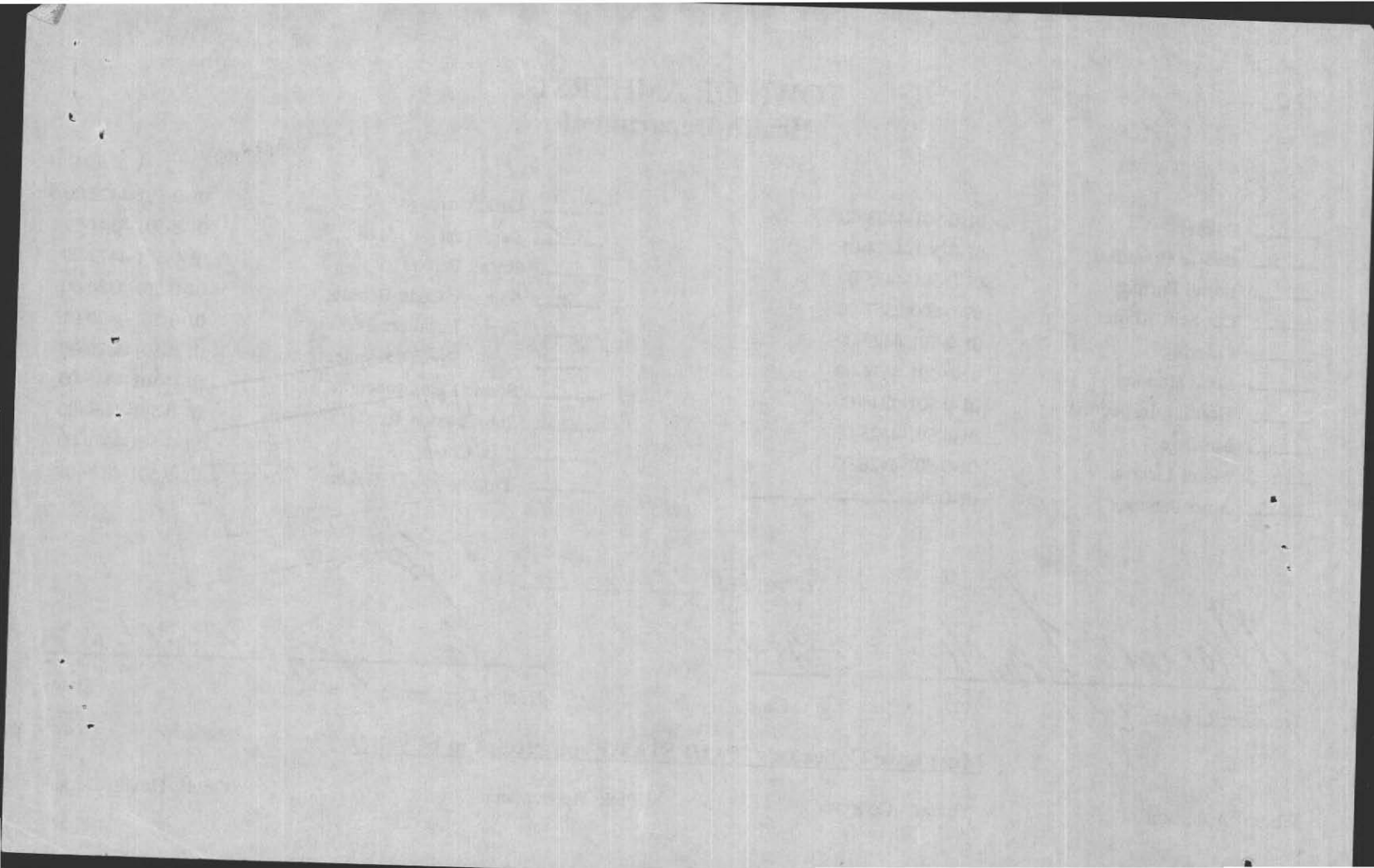
**Must have Collector's "PAID STAMP" on receipt to be valid.**

White: Applicant

Yellow: Collector

Pink: Accountant

Gold: Health Dept.



#1260

FEE 1000



THE COMMONWEALTH OF MASSACHUSETTS

BOARD OF HEALTH

TOWN OF Amherst MASS

Application for Disposal Works Construction Permit

Application is hereby made for a Permit to Construct ( ) or Repair (x) an Individual Sewage Disposal System at:

DAVID ALLEN 1260 BAY ROAD AMHERST MASS
DAVID ALLEN 1260 BAY ROAD AMHERST MASS

CHECK OR FILL IN WHERE APPLICABLE

Type of Building: Dwelling - No. of Bedrooms 4 BDR, Expansion Attic NO, Garbage Grinder (NO). Other - Type of Building RESIDEN, No. of persons 8, Showers (2) - Cafeteria (NO). Design Flow: 110 gallons per person per day. Total daily flow 110 x 4 = 440 gallons. Septic Tank - Liquid capacity 500 gallons, Length 10'6", Width 5', Diameter 5', Depth 5'. Disposal Trench - No. 4, Width 36", Total Length 184', Total leaching area 920 sq. ft. Seepage Pit No. -, Diameter -, Depth below inlet 12", Total leaching area sq. ft. Other Distribution box (1), Dosing tank ( ). Percolation Test Results: Performed by WILLIAM SIERRA, Date 5/9/95. Test Pit No. 1: 10 minutes per inch, Depth of Test Pit 54, Depth to ground water -. Test Pit No. 2: 10 minutes per inch, Depth of Test Pit 59, Depth to ground water -. Description of Soil: TPI-1 0-4 OTS LOAM 4-20 SILTY GRAVEL 20-120 COMPACT GRAVEL TILL H2O 60" TPI-2 0-4 OTS LOAM 4-20 SILTY GRAVEL SUB 20-120 GRAVEL TILL WITH COBLES TPI-3 1-120 0-4 OTS LOAM 4-20 SILTY SUB SOIL 20-120 COMPACT TILL H2O 96"

The undersigned agrees to install the aforescribed Individual Sewage Disposal System in accordance with the provisions of TITLE 5 of the State Environmental Code - The undersigned further agrees not to place the system in operation until a Certificate of Compliance has been issued by the board of health.

Signed x David Allen 9/26/95
Application Approved By David Berger for C. J. Coyne 9/25/95
Application Disapproved for the following reasons:

Permit No. 95-21 Issued Date

Handwritten signature and date 9/9/97

THE COMMONWEALTH OF MASSACHUSETTS

BOARD OF HEALTH

TOWN OF Amherst

Certificate of Compliance

RECEIVED SEP 26 1995

THIS IS TO CERTIFY, That the Individual Sewage Disposal System constructed ( ) or Repaired (x) by [Installer] at 1260 Bay Road has been installed in accordance with the provisions of TITLE 5 of The State Environmental Code as described in the application for Disposal Works Construction Permit No. 95-21 dated [Date]

THE ISSUANCE OF THIS CERTIFICATE SHALL NOT BE CONSTRUED AS A GUARANTEE THAT THE SYSTEM WILL FUNCTION SATISFACTORY.

DATE 6/9/97 Inspector David Berger

THE COMMONWEALTH OF MASSACHUSETTS

BOARD OF HEALTH

TOWN OF Amherst

No. 95-21

FEE 1000

Disposal Works Construction Permit

Permission is hereby granted to Construct ( ) or Repair (x) an Individual Sewage Disposal System at No. 1260 Bay Road

as shown on the application for Disposal Works Construction Permit No. 95-21 Dated [Date]

DATE 9/30/95 Board of Health





NOT Pd  
AS OK  
5/9/95

PERC TEST DATA SHEET

DATE 5/9/95 LOCATION 1260 Bay Road LOT SIZE 1.8+

OWNER David Allen ADDRESS 1260 Bay Road TELE # 283-9239

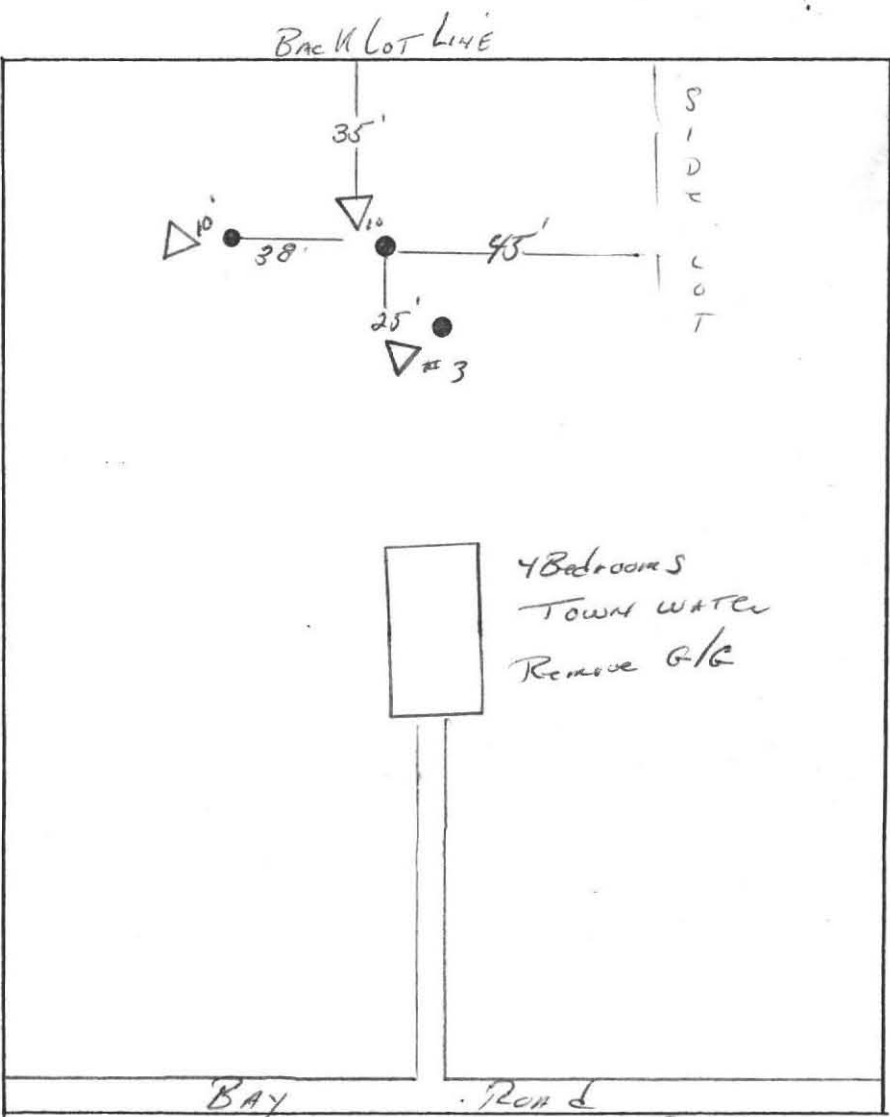
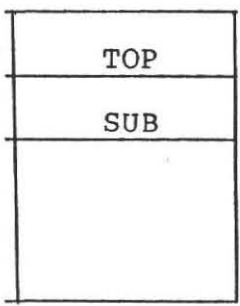
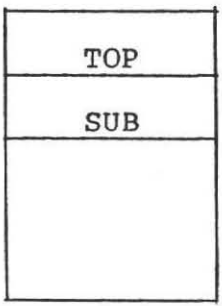
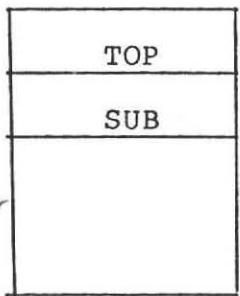
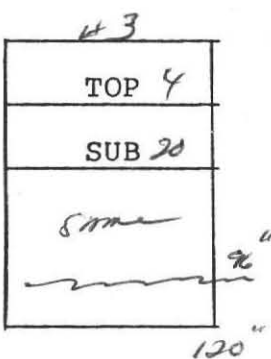
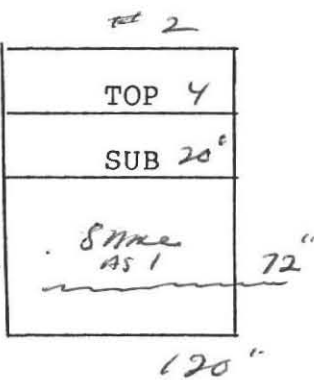
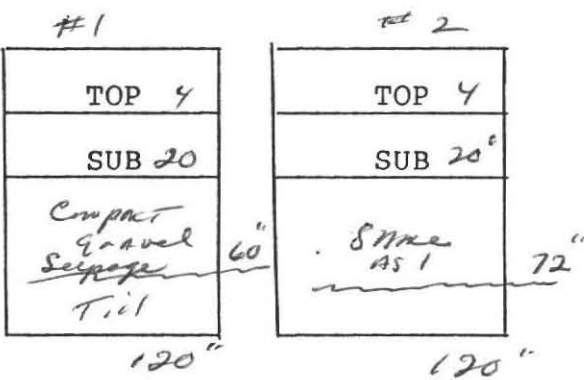
P.E./RS William Stewart FIRM Some OBSERVED BY David Zorned

BACK HOE OPERATOR Bill TELE \_\_\_\_\_ BENCH MARK \_\_\_\_\_

PERC DEPTH 54" PRE SOAK TIME 8:40 PERC DEPTH 54" PRE SOAK TIME 8:55

TEST	12" 9:00	8" 9:28	12" 9:12	8" 9:47
	11" 9:05	7" 9:38	11" 9:18	7" 9:58
	10" 9:12	6" 9:48	10" 9:25	6" 10:08
	9" 9:19	29min	9" 9:38	

RATE 9.6 (10) RATE (10)

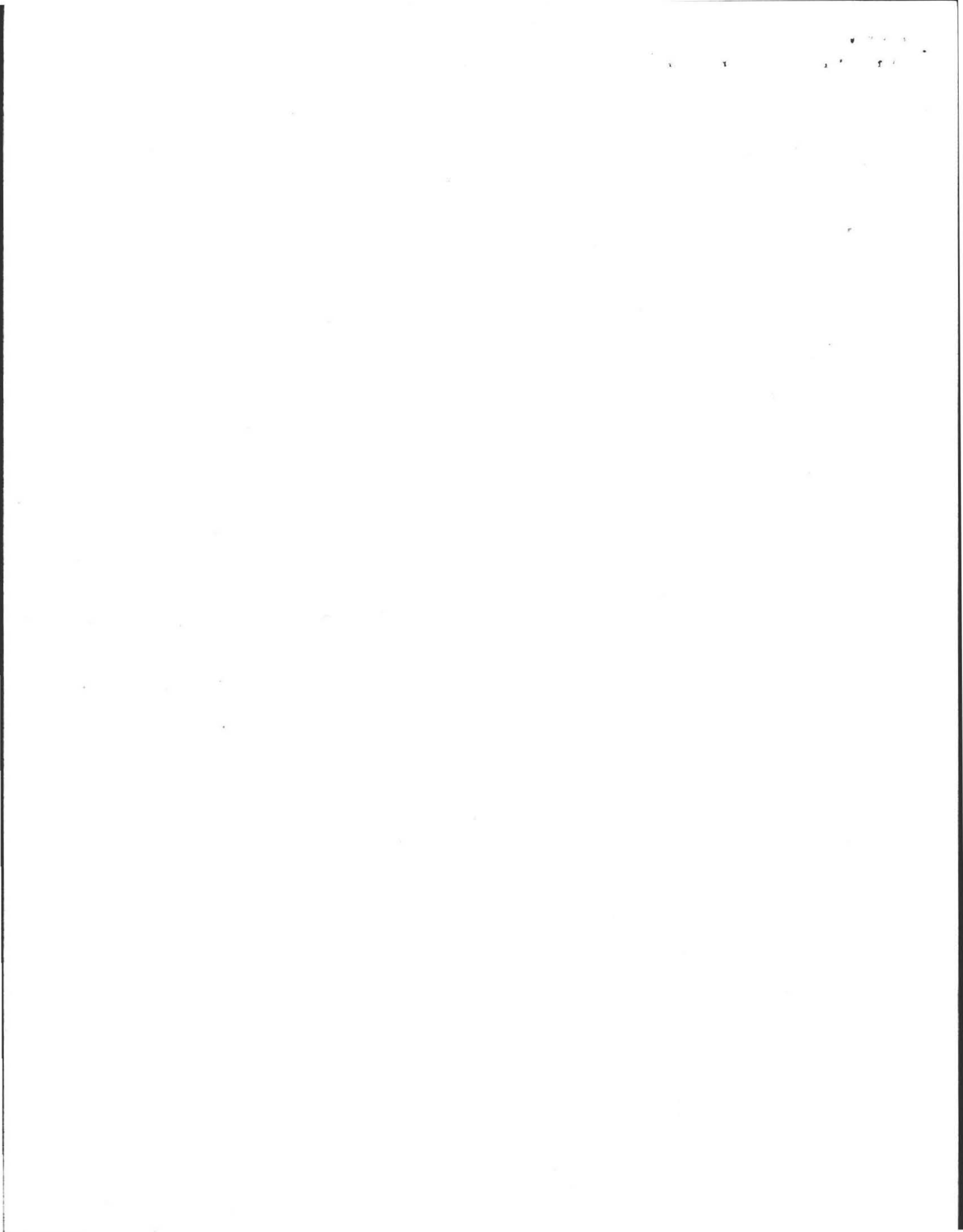


EHL:PERCFORM

#3 D.O.P 47"  
Soak 9:05-9:20

12	9:20	9	9:58
11	9:29	7	10:08
10	9:38	6	10:18
9	9:48		

RATE (10)



Percolation Test

*perc Test 1*

Test No. _____	Time <u>8:40-8:55</u>
Reading _____	
Saturation (15 min) _____	
<u>12</u>	<del>8:55</del> <u>9:00</u>
<u>11</u>	<u>9:05</u>
<u>10</u>	<u>9:12</u>
<u>9</u>	<u>9:19</u>
<u>8</u>	<u>9:28</u>
<u>7</u>	<u>9:39</u>
<u>6</u>	<u>9:48</u>

*29/3 = 9.66*

Perc Rate 10 Min/inch

Ground Elev. \_\_\_\_\_

Depth of Hole 54

*perc Test 2*

Test No. _____	Time <u>8:55-9:10</u>
Reading _____	
Saturation (15 min) _____	
<u>12</u>	<u>9:10</u>
<u>11</u>	<u>9:18</u>
<u>10</u>	<u>9:25</u>
<u>9</u>	<u>9:38</u>
<u>8</u>	<u>9:47</u>
<u>7</u>	<u>9:58</u>
<u>6</u>	<u>10:08</u>

*30/3 = 10*

Perc. Rate 10 Min/inch

Ground Elev. \_\_\_\_\_

Depth of Hole 59"

Test Pit TP-1

Depth	Soil Description
<u>0-4</u>	<u>OTS COAM</u>
<u>4-20</u>	<u>SILTY GRAVEL</u>
<u>20-120</u>	<u>COMPACT GRAVEL FILL</u>
	<u>PINK TYPE II SOIL</u>

Groundwater Depth 60" Elev. Seepage

Bedrock Depth \_\_\_\_\_ Elev. \_\_\_\_\_

Ground Elev. \_\_\_\_\_

Deep Test Pit/s TP-2

Depth	Soil Description
<u>0-4</u>	<u>OTS COAM</u>
<u>4-20</u>	<u>SILTY GRAVEL FILL</u>
<u>20-120</u>	<u>GRAVEL FILL WITH COLLARS</u>
	<u>E BOULDERS</u>

Groundwater Depth 72" Elev. \_\_\_\_\_

Bedrock Depth \_\_\_\_\_ Elev. \_\_\_\_\_

Ground Elev. \_\_\_\_\_

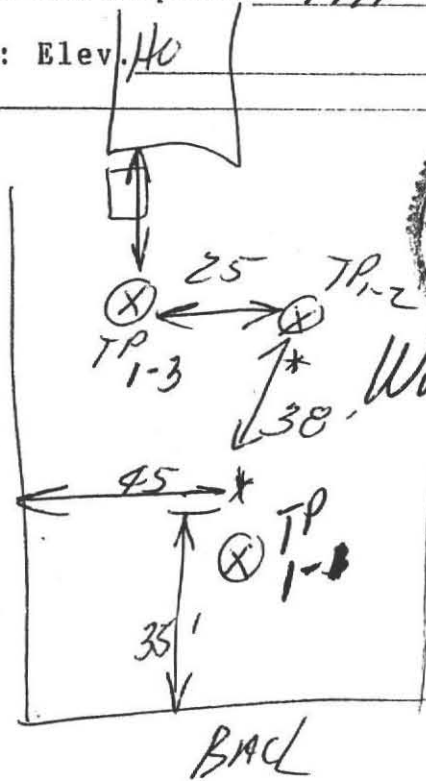
S.C.S. Soil Description gravel fill Seasonal High Water Table? AS NOTED

Bench Mark: Elev. HO Description SILL OF HOUSE 200

COMMENTS:

4 BRD ROOM

EXISTING 3 BRD ROOM



MAY 9 1995

Engineer: DAVID ALLEN

Address: 1260 BAY RD

City: 50 AMHERST

State: VT SIBUTA PE

Business: D ZARACHINSKI

Location of Perc: 1260 BAY RD

City: AMHERST

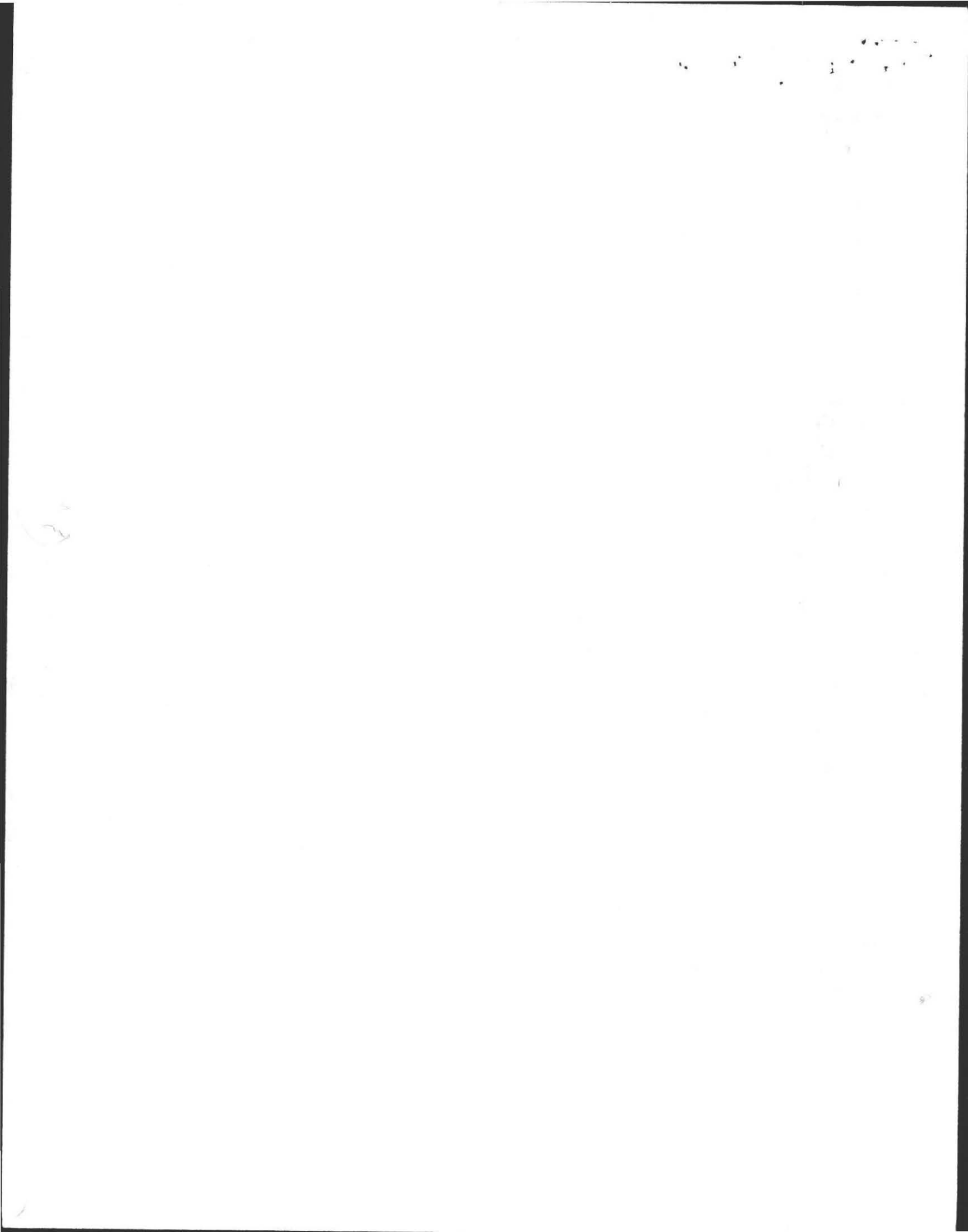
State: VT

<u>9:05-9:20</u>	<u>TP-3</u>
<u>12 9:20</u>	<u>0-4 OTS COAM</u>
<u>11 9:29</u>	<u>4-20 SILTY SUB SOIL</u>
<u>10 9:38</u>	<u>20-120 COMPACT TILL</u>
<u>9-9:48</u>	
<u>8 9:58</u>	
<u>7 10:08</u>	
<u>6 10:18</u>	

10 min

96" Seepage

TYPE II SOIL



**PERCOLATION TEST INFORMATION**

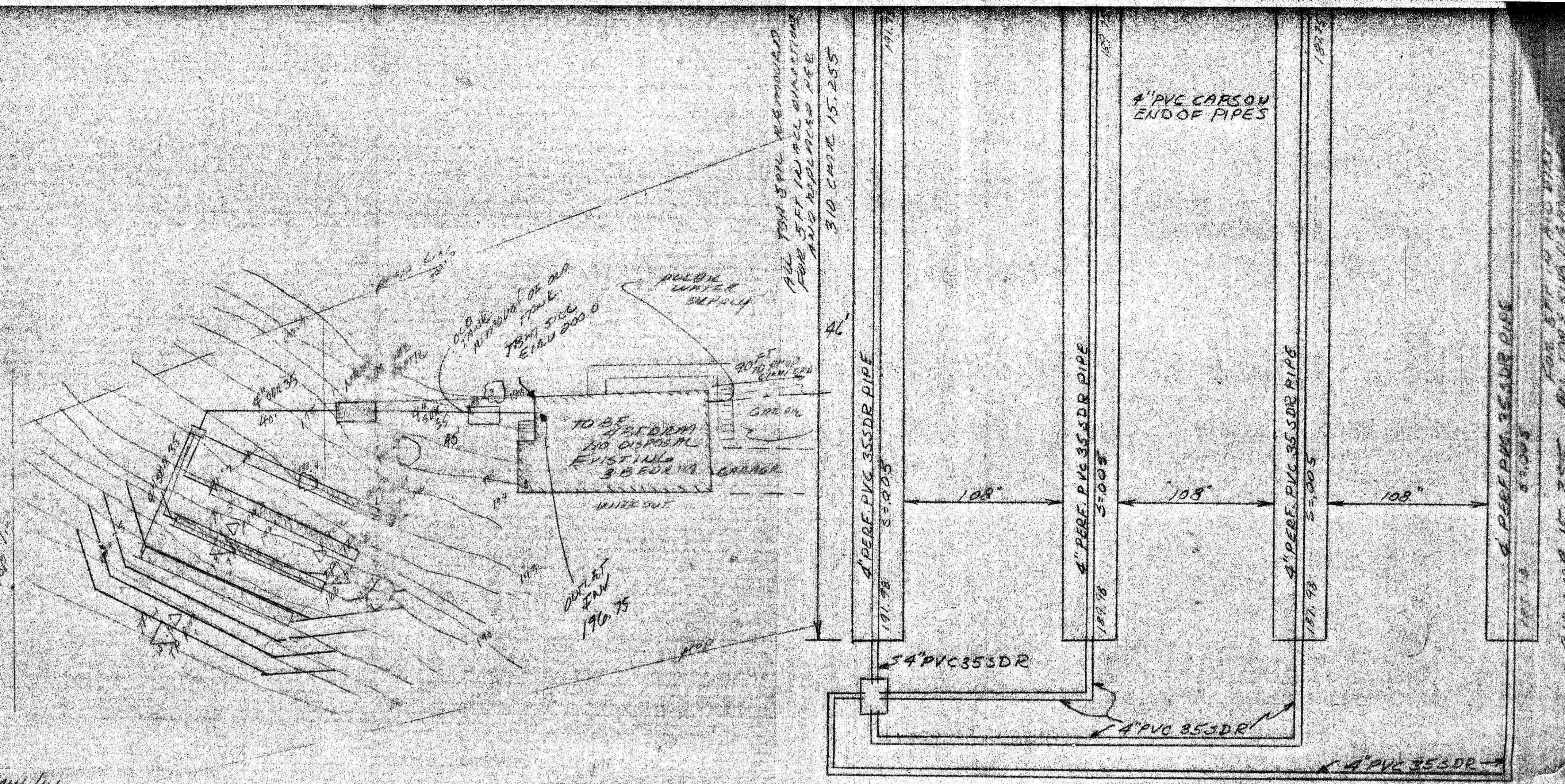
TEST PIT TP-1		TEST PIT TP-2		TEST PIT TP-3	
4"	OTS LOAM 0'-4"	4"	OTS LOAM 0'-4"	4"	OTS LOAM 0'-4"
16"	SILTY GRAVEL 4'-20"	16"	SILTY GRAVEL TILL 4'-20"	16"	SILTY SUBS. SILT 4'-20"
100"	COMPACT GRAVEL TILL 20'-120"	100"	GRAVEL TILL WITH COBBLES 20'-120"	100"	COMPACT TILL 20'-120"

H<sub>2</sub>O @ 60" SEEPAGE  
 DATE: MAY 9, 1995  
 FOR: DAVID ALLEN  
 1260 BAY RD.  
 30 AMHERST MA  
 ENGR. W.J. SIERUTA, P.E.  
 WITNESS: D. ZIEGLINSKI B.O.H.

H<sub>2</sub>O @ 72" SEEPAGE  
 PERMEABILITY  
 TP-1 DEPTH 59"  
 ACTUAL RATE 3 MIN./IN.  
 DESIGN RATE 10 MIN./IN.

H<sub>2</sub>O @ 96" SEEPAGE  
 TP-2 DEPTH 59"  
 ACTUAL RATE 10 MIN./IN.  
 DESIGN RATE 10 MIN./IN.

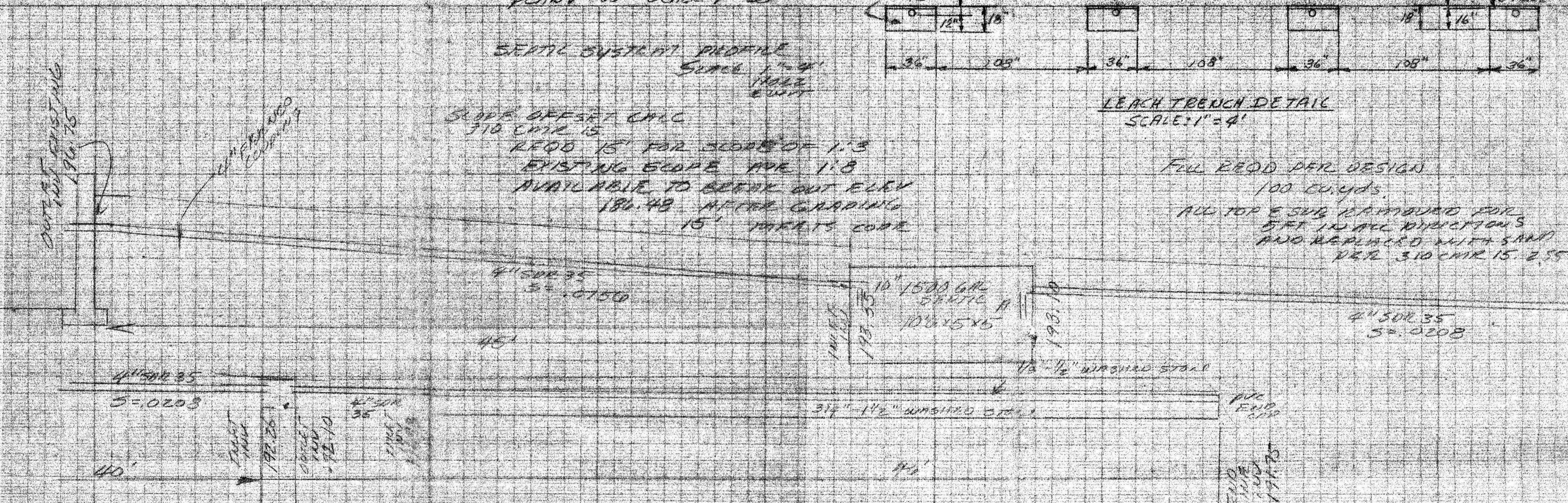
TP-3 DEPTH 47"  
 ACTUAL RATE 10 MIN./IN.  
 DESIGN RATE 10 MIN./IN.



**DESIGN INFORMATION**  
 ALL CONSTRUCTION TO BE IN ACCORDANCE WITH 310 CMR 15.0 AND ALL LOCAL BOARD OF HEALTH REGULATIONS.  
 FINISH GRADING TO BE AS SHOWN ON PLAN VIEW  
 ALL DISTURBED AREAS TO BE LOAMED AND SEEDED

**DESIGN CRITERIA**  
 USE: EXISTING 4 BEDROOM RESIDENTIAL STRUCTURE W/D DISPOSAL UNIT  
 DESIGN FLOW: 310 CMR 15.203  
 4 BEDROOMS 410 GALS./BEDROOM = 490 GALS./DAY  
 PER MANHOLE REQ. 1.25 X 490 GALS. = 550 GALS./DAY NO DISPOSAL UNIT  
 SEPTIC TANK: 310 CMR 15.223  
 490 GALS./DAY X 200% = 890 GALS./DAY  
 MINIMUM TANK REQ. USE 1500 GAL. TANK 10'6" X 5' X 5'  
 TYPICAL TANK 36" FROM BASE TO INLET INSERT

**LEACHING SYSTEM:**  
 DUE TO SOIL CONDITIONS A LEACH TRENCH SYSTEM IS TO BE USED PER 310 CMR 15.240 SECT. G  
 EFFECTIVE DEPTH 12'  
 EFFECTIVE WIDTH 3'  
 EFFECTIVE LENGTH 184'  
 USE (4) 4" TRENCHES 9 FT APART  
 TOTAL AREA  
 SIDE WALL AREA 8' X 184' = 368 FT<sup>2</sup>  
 BOTTOM AREA 3' X 184' = 552 FT<sup>2</sup>  
 TOTAL PERMEABILITY  
 920 FT<sup>2</sup> X .60 = 552 FT<sup>2</sup>  
 EXCEEDS CODE REQUIREMENTS  
 TBM SET AT SILL OF HOUSE (20')



**INSTALLATION NOTES**

- SEPTIC TANK TO BE CONSTRUCTED IN ACCORDANCE WITH 310 CMR 15.223
- SEPTIC TANK TO HAVE INLET AND OUTLET TEE IN ACCORDANCE WITH 310 CMR 15.227(5)
- SEPTIC TANK AND DISTRIBUTION BOX INSTALLED LEVEL ON COMPACT MATERIAL AND 6" WASHED STONE BEDDING
- ALL PIPE JOINTS WITH TANK AND DISTRIBUTION BOX TO BE ASPHALT ROPE SEALED

TRENCH #	TRENCH INVERT	ENTRANCE ELEV. (IN)	BOTTOM ELEV.	MANHOLE ELEV.
1	191.98	196.75	190.75	192.48
2	189.98	198.75	188.75	190.48
3	187.98	187.75	186.75	188.48
4	185.98	185.75	184.75	186.48

**SEPTIC SYSTEM DESIGN FOR**  
 DAVID ALLEN  
 1260 BAY RD.  
 30 AMHERST, MA  
 ENGR. W.J. SIERUTA, P.E.  
 DATE: JUN 26 1995



**PERCOLATION TEST INFORMATION**

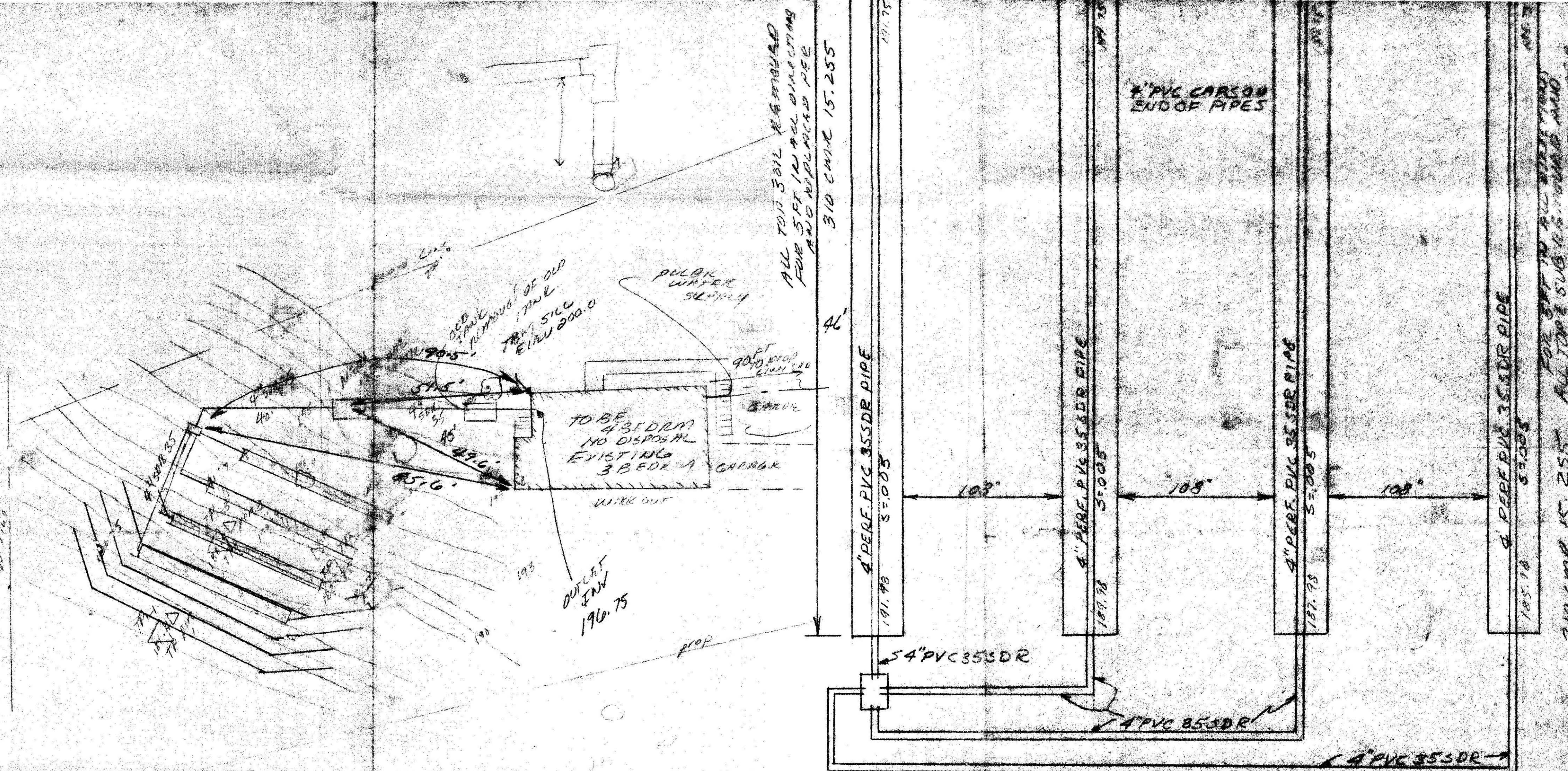
TEST PIT TP-1		TEST PIT TP-2		TEST PIT TP-3	
4"	0.75 LOAM	4"	0.75 LOAM	4"	0.75 LOAM
16"	SILTY GRAVEL	16"	SILTY GRAVEL TILL	16"	SILTY SUB SILT
100"	COMPACT GRAVEL TILL	100"	GRAVEL TILL WITH COBBLES	100"	COMPACT TILL
	0.4		4-20		4-20
	4-20		20-120		20-120

H<sub>2</sub>O @ 60" SEEPAGE  
 DATE: MAY 9, 1995  
 FOR: DAVID ALLEN  
 1260 BAY RD.  
 SO. AMHERST, MA  
 ENGR. W.J. SIERUTA, PE  
 WITNESS: D. ZARAZINSKI B.O.H.

H<sub>2</sub>O @ 12" SEEPAGE  
 PERMEABILITY  
 TP-1 DEPTH 54"  
 ACTUAL RATE 9.6 MIN./IN.  
 DESIGN RATE 10 MIN./IN.

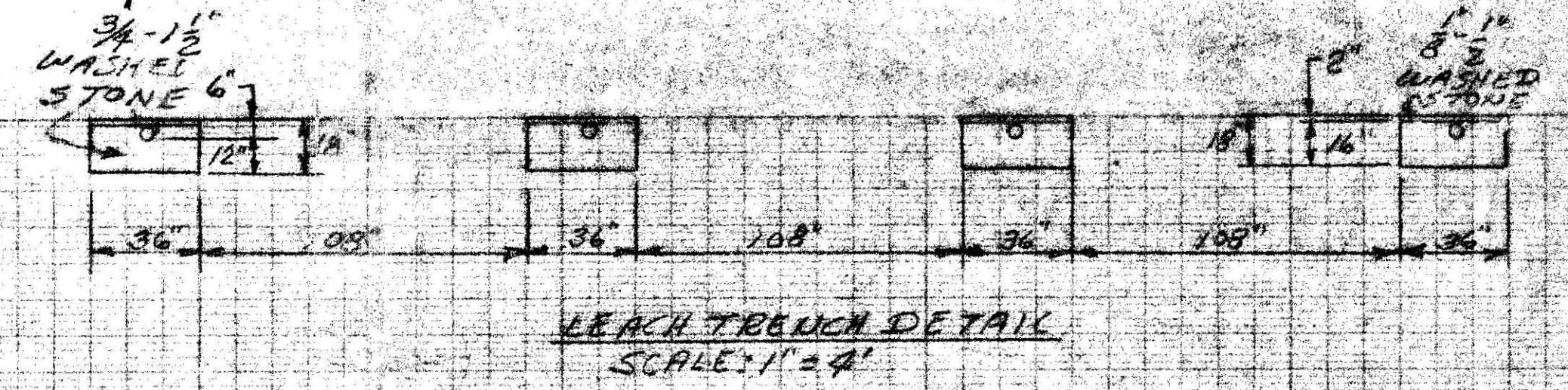
H<sub>2</sub>O @ 96" SEEPAGE  
 TP-2 DEPTH 59"  
 ACTUAL RATE 10 MIN./IN.  
 DESIGN RATE 10 MIN./IN.

TP-3 DEPTH 47"  
 ACTUAL RATE 10 MIN./IN.  
 DESIGN RATE 10 MIN./IN.



PLAN VIEW SCALE 1"=20'

SEPTIC SYSTEM PROFILE  
 SLOPE 1/4" PER FOOT  
 SLOPE OFFSET CALC  
 310 CMR 15  
 REED 15" FOR SLOPE OF 1/8"  
 EXISTING GROUND 186.48  
 AVAILABLE TO BEAK OUT EVEN  
 186.48 AFTER GRADING  
 15' HIGHERS CODE



LEACH TRENCH DETAIL SCALE 1"=4'

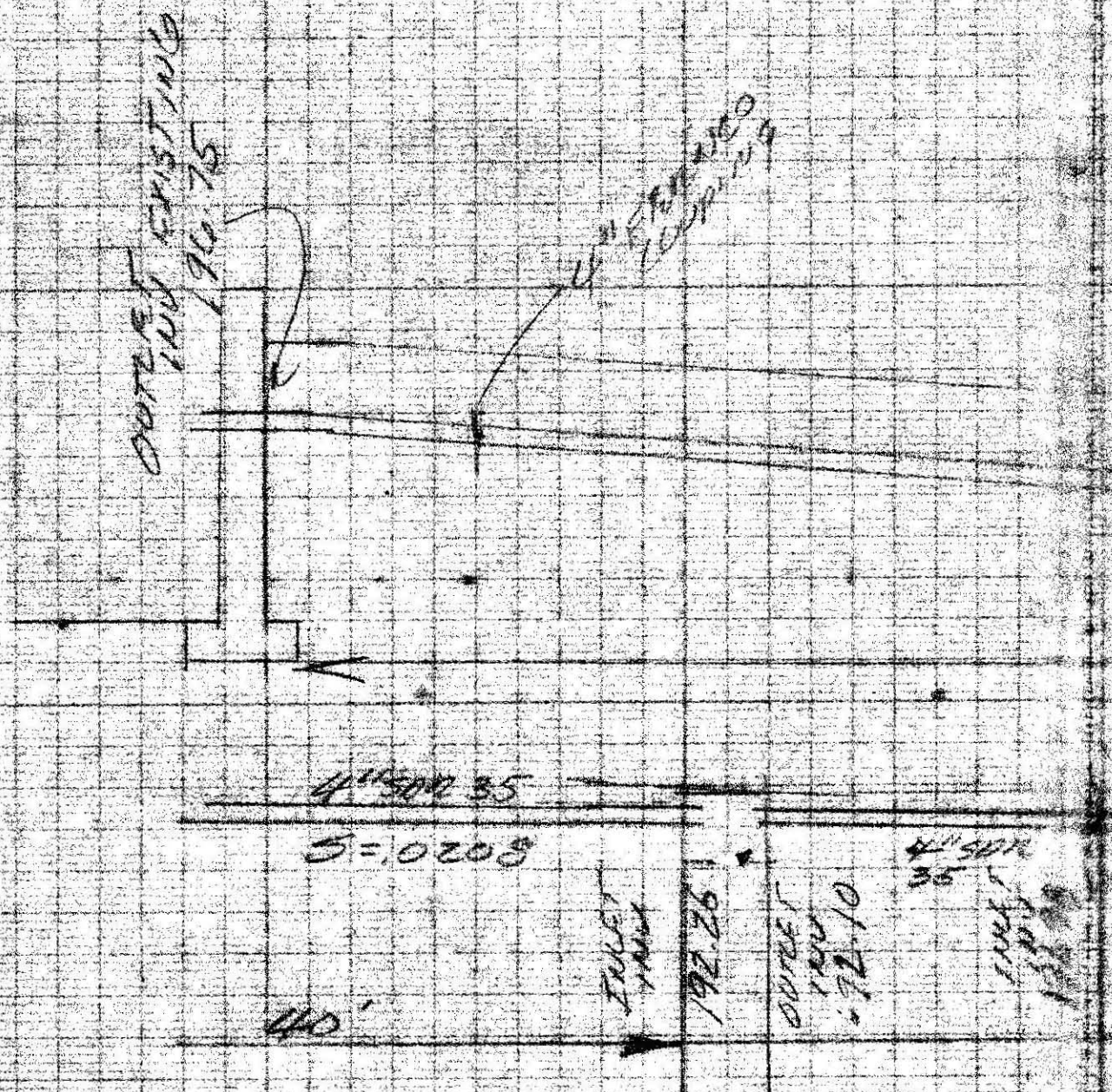
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**DESIGN CRITERIA**  
 USE EXISTING 4 BEDROOM RESIDENTIAL STRUCTURE NO DISPOSAL UNIT  
 DESIGN FLOW: 310 CMR 15.203  
 4 BEDROOMS X 110 GALS./BEDROOM = 440 GALS./DAY  
 PER INHABITANT REQ. 125 X 440 GALS. = 550 GALS./DAY NO DISPOSAL UNIT

**SEPTIC TANK: 310 CMR 15.223**  
 440 GALS./DAY X 200% = 880 GALS./DAY  
 MINIMUM TANK REQ. USE 1500 GAL. TANK 10' X 5' X 5'  
 TYPICAL TANK 36" FROM BASE TO INLET INVERT

**LEACHING SYSTEM:**  
 DUE TO SOIL CONDITIONS A LEACH TRENCH SYSTEM IS TO BE USED PER 310 CMR 15.240 SECT. 6  
 EFFECTIVE DEPTH 12"  
 EFFECTIVE WIDTH 8"  
 EFFECTIVE LENGTH 124'  
 USE (4) 46' TRENCHES 9 FT APART  
 TOTAL AREA  
 SIDE WALL AREA 8' X 124' = 992 FT.<sup>2</sup>  
 BOTTOM AREA 8' X 124' = 992 FT.<sup>2</sup>  
 TOTAL PERMEABILITY  
 992 FT.<sup>2</sup> X .60 = 595.2 FT.<sup>2</sup>  
 EXCEEDS CODE REQUIREMENTS  
 TBM SET AT SILL OF HOUSE (200)

PERMEABILITY  
 310 CMR 15.242  
 CLASS TYPE II SOIL  
 DESIGN RATE  
 60 G.P.D./FT.<sup>2</sup>



**INSTALLATION NOTES**

1. SEPTIC TANK TO BE CONSTRUCTED IN ACCORDANCE WITH 310 CMR 15.223
2. SEPTIC TANK TO HAVE INLET AND OUTLET TEES IN ACCORDANCE WITH 310 CMR 15.227 (5)
3. SEPTIC TANK AND DISTRIBUTION BOX INSTALLED LEVEL ON COMPACT MATERIAL AND 6" WASHED STONE BEDDING
4. ALL PIPE JOINTS WITH TANK AND DISTRIBUTION BOX TO BE ASPHALT ROPE SEALED

TRENCH #	INLET INV.	END CLIFF INV.	BOTTOM FLRA	PER. RATE
1	171.98	171.75	170.75	190.48
2	187.98	187.75	186.75	190.48
3	187.98	187.75	186.75	190.48
4	185.98	185.75	184.75	190.48

**SEPTIC SYSTEM DESIGN FOR**  
 DAVID ALLEN  
 1260 BAY RD.  
 SO. AMHERST, MA  
 ENGR. W.J. SIERUTA, PE  
 DATE: JUN 26, 1995

