

690 H. East St

System Design 530
Kend 25/10/98
Pump Line under
du locant



No. 95-30

FEE 160⁰⁰
CH # 6511

THE COMMONWEALTH OF MASSACHUSETTS

BOARD OF HEALTH

TOWN OF AMHERST

Application for Disposal Works Construction Permit

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

690 NORTHEAST ST

WALTER WYSOCKI
Owner

Henry St. Amherst, MA
Address

Type of Building Dwelling — No. of Bedrooms 5 Expansion Attic () Garbage Grinder (✓)
Other — Type of Building No. of persons Showers () — Cafeteria ()
Other fixtures

Design Flow 55 gallons per person per day. Total daily flow 550 gallons.

Septic Tank — Liquid capacity 1500 gallons Length Width Diameter Depth

Disposal Trench — No. 2 Width 4 ft Total Length 130 ft Total leaching area 520 sq. ft. BOT

Seepage Pit No. Diameter Depth below inlet Total leaching area 260 sq. ft. SIDE

Other Distribution box (1) Dosing tank ()

Percolation Test Results Performed by DAVID E. KEATES Date 5/23/95

Test Pit No. 1 22 minutes per inch Depth of Test Pit 120" Depth to ground water 7 ft

Test Pit No. 2 22 minutes per inch Depth of Test Pit 120" Depth to ground water 8 ft

Description of Soil See soil logs

Nature of Repairs or Alterations — Answer when applicable

Agreement:

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

Application Approved By

Application Disapproved for the following reasons:

Permit No. 9530

Issued

THE COMMONWEALTH OF MASSACHUSETTS

BOARD OF HEALTH

TOWN OF Amherst

Certificate of Compliance

THIS IS TO CERTIFY, That the Individual Sewage Disposal System constructed () or Repaired (✓) by L & F CONSTRUCTION

at 690 NORTH EAST ST Installer

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. 9530 dated

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

DATE

Inspector

THE COMMONWEALTH OF MASSACHUSETTS

BOARD OF HEALTH

TOWN OF Amherst

No. 95-30

FEE 160⁰⁰

Disposal Works Construction Permit

Permission is hereby granted WALTER WYSOCKI

to Construct () or Repair (✓) an Individual Sewage Disposal System

at No. 690 N. EAST ST

Street 95-30

as shown on the application for Disposal Works Construction Permit No. 95-30 Dated

DATE 11/29/95

Board of Health

SYSTEM INSTALLED
PLOW HADN
BEEN APPROVED

CHECK OR FILL IN WHERE APPLICABLE

TOWN OF WASHINGTON
BOARD OF HEALTH

Application for License to Practice as a Physician

Application is hereby made for a license to practice as a physician in the town of Washington, Vermont, at the place known as
WATER (WYBOK) ST
NORTH ST

Type of Practice
Residence - No. of Patients 2
Office - Type of Building
Other Rooms
Length of Practice
Specialty - 10
Diploma Issued - 8
Degree for License - 11
Other Qualifications
Residence for 2 years
Last 12 months 2
Last 24 months 2

Town of Washington
Vermont

Signature
Date

Signature of Applicant

Statement of Reasons for Issuance of License
The undersigned Board of Health of the Town of Washington, Vermont, in accordance with the provisions of the Act of the Legislature of the State of Vermont, Chapter 100, Section 1, do hereby certify that the applicant is a duly qualified person to practice as a physician in the town of Washington, Vermont, and that the system of practice proposed by the applicant is in accordance with the laws of the State of Vermont.

Attest: Approved by the Board of Health of the Town of Washington, Vermont, this _____ day of _____, 19____.

Signature of Board Member
Name of Board Member

THIS IS TO CERTIFY that the above named applicant has been examined in accordance with the provisions of the Act of the Legislature of the State of Vermont, Chapter 100, Section 1, and that the applicant is a duly qualified person to practice as a physician in the town of Washington, Vermont, and that the system of practice proposed by the applicant is in accordance with the laws of the State of Vermont.

DATE: _____

Signature of Board Member
Name of Board Member
Signature of Applicant
Name of Applicant
DATE: _____

CHECK ONE: FULL PARTIAL NONE

PERC TEST DATA SHEET

DATE 5/23/95 LOCATION 690 N EAST ST LOT SIZE _____

OWNER WALT WYSOCHI ADDRESS 690 N EAST ST TELE # _____

P.E./RS David HEINTZ FIRM Sma OBSERVED BY D. Zorani

BACK HOE OPERATOR WALT WYSOCHI TELE _____ BENCH MARK _____

PERC DEPTH 36" PRE SOAK TIME _____ PERC DEPTH 48" PRE SOAK TIME _____

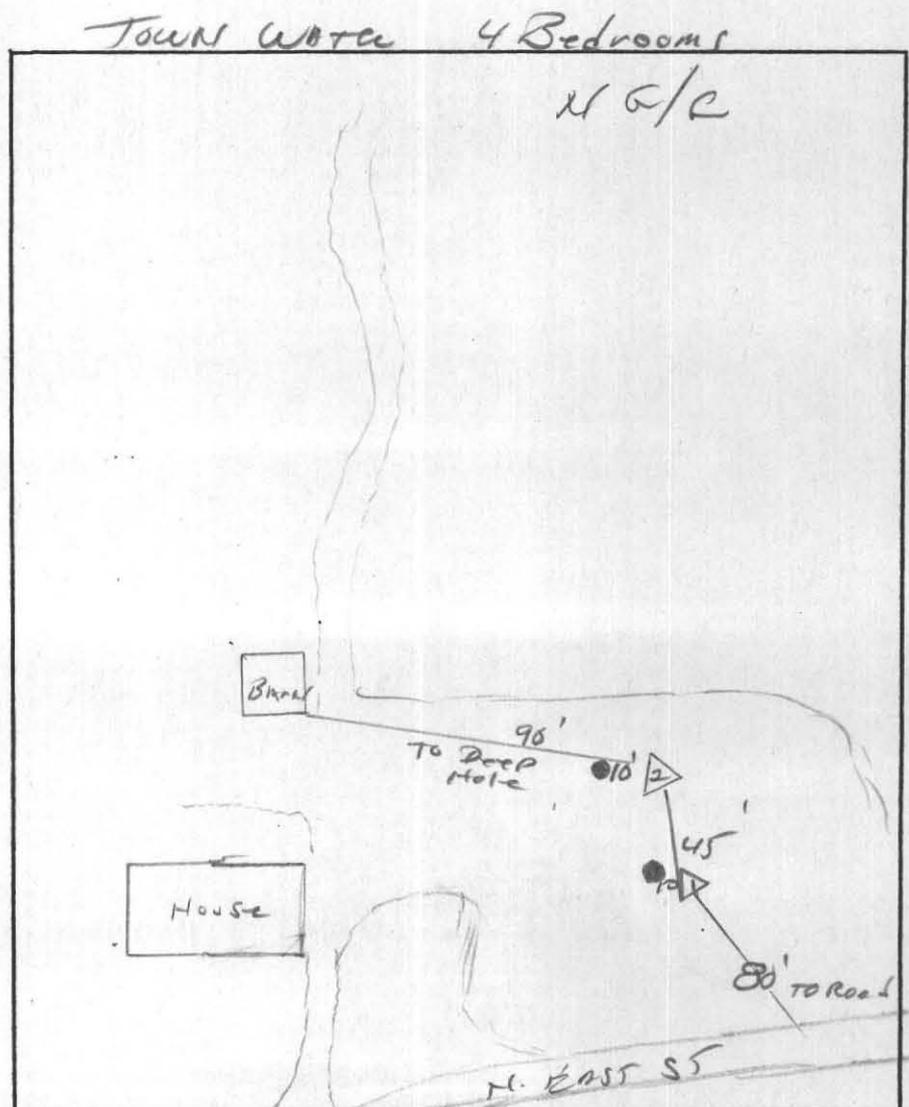
| | | | | | | |
|------|--------------------|------------|---------|------------|----|----------------------------|
| TEST | 8:33 | 12" (590L) | 8:36:20 | 4" (590L) | 8" | 8:56 |
| | 8:34 | 15" | 8:38:50 | 8" (590L) | 6" | 8:57 ¹⁴ (1090L) |
| | 8:34 ⁵⁰ | 7" (590L) | 8:39:13 | 13" (590L) | 5" | 8:58 ⁴⁸ |
| | 8:36 | 12" (590L) | 8:41:12 | 12" | 7" | 8:59 ^(1590L) |
| | | | 8:42 | 5" (590L) | | |
| | | | 8:44:30 | 13" | | |

RATE (2) RATE (2)

| | | |
|----|----------------------------------|-----------------|
| #1 | Gravel TOP 20" | TOP |
| | Fine Sand Loose SUB 60" | 10YR 6/8 SUB |
| | Fine Sand E. WHT Linn 120" | 2.5Y 6/2 |

| | | |
|----|-------------------|-----------------|
| #2 | Gravel TOP 41" | TOP |
| | Fine Sand SUB | 10YR 6/8 SUB |
| | Fine Sand 120" | 2.5Y 6/2 |

| | |
|-----|-----|
| TOP | TOP |
| SUB | SUB |
| | |



Sewage Disposal System

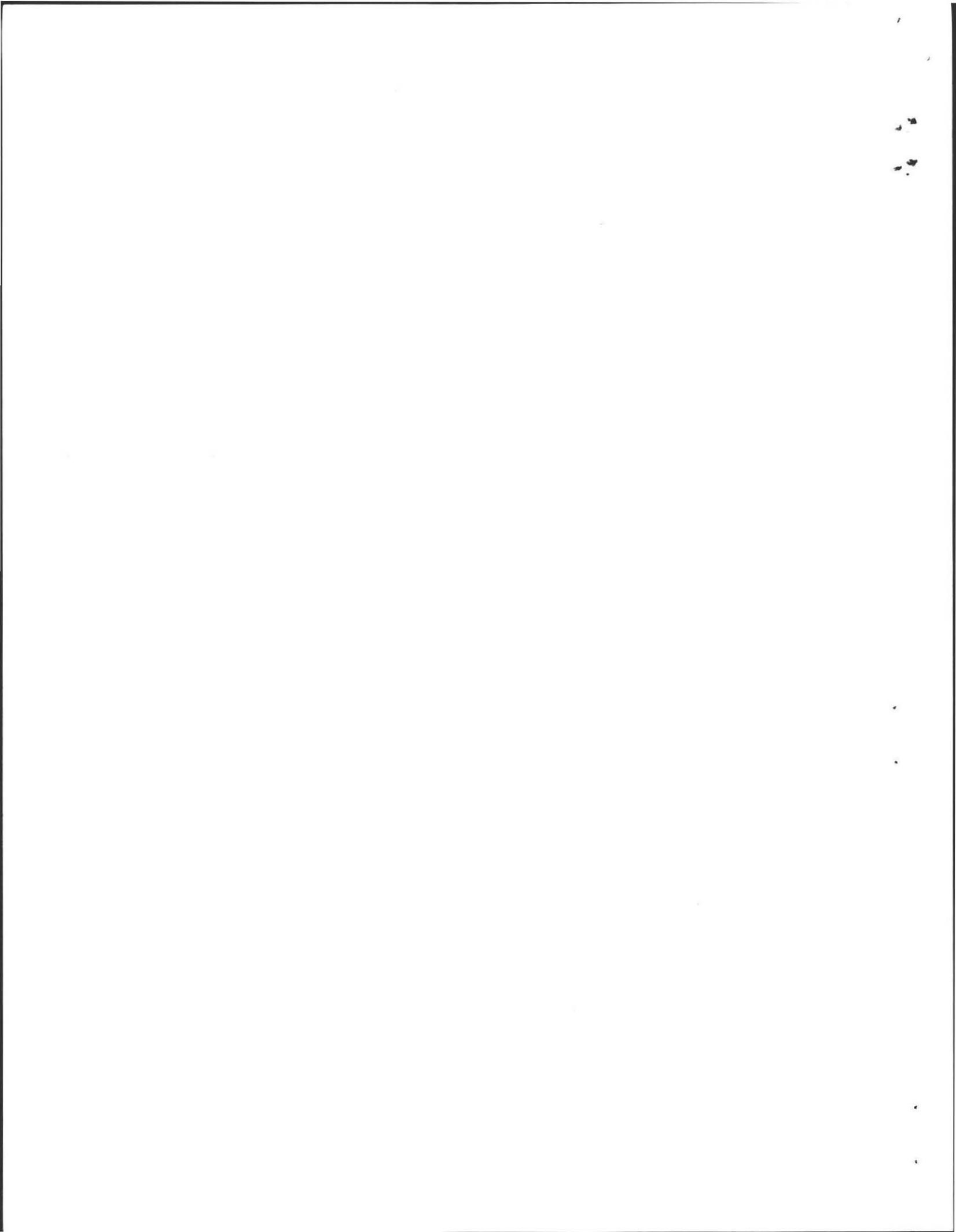
for

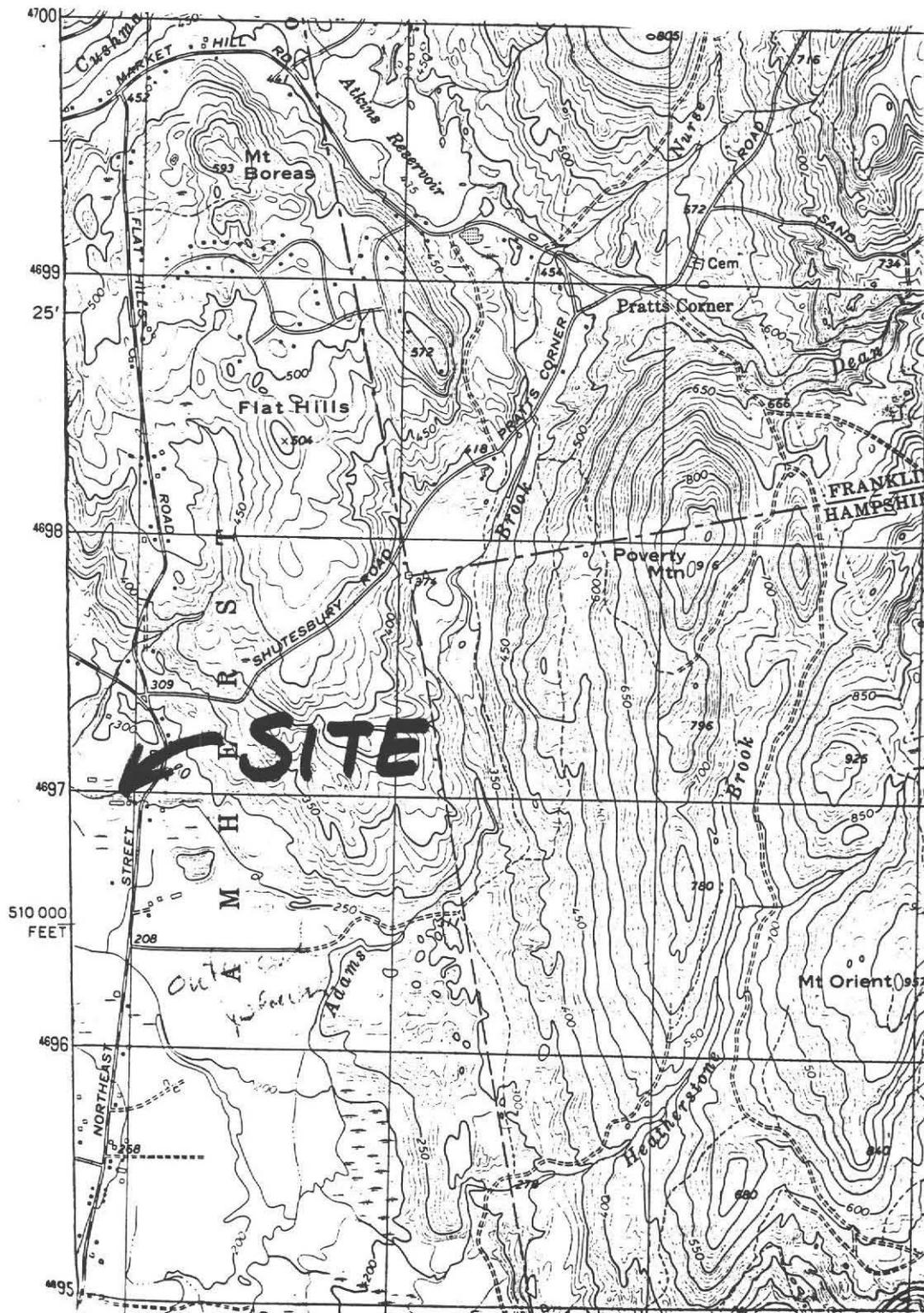
**Walter Wysocki
690 Northeast Street
Amherst, MA**



*David E. Keates
6/28/95*

**David E. Keates, P.E.
Consulting Civil Engineer
102 Russell Street
Sunderland, MA 01375
Tel: 413-665-7670**



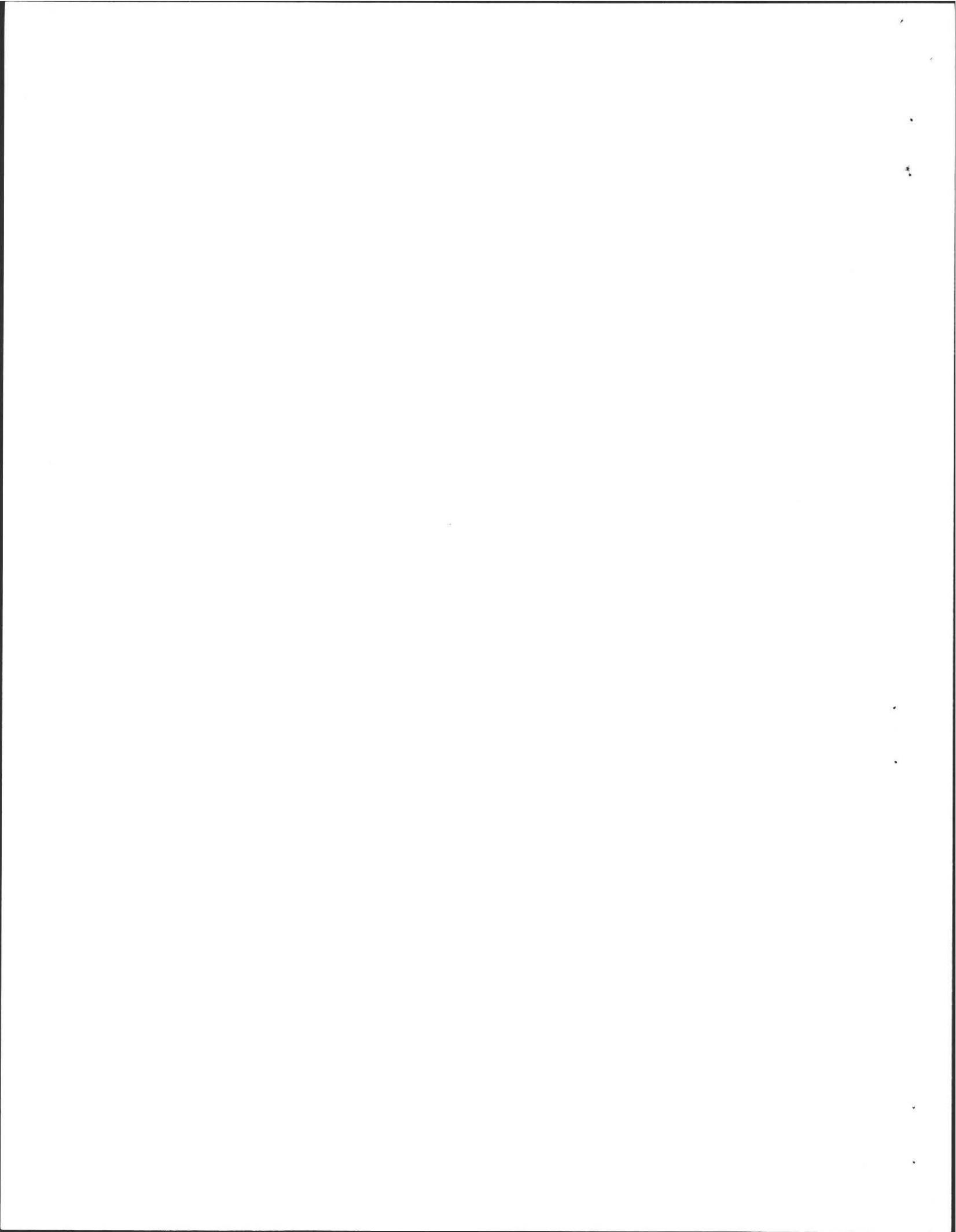


LOCATION MAP
1" = 2000'

PROJECT
WALTER WYSOCKI
690 NORTHEAST ST.
AMHERST, MA.

Sheet 2 of 14

David E. Keates, P.E.
Consulting Civil Engineer
102 Russell Street
Sunderland, MA 01375
Tel: 413-665-7670



Date 5/23/95

No. _____

Commonwealth of Massachusetts

AMHERST, Massachusetts

Site Suitability Assessment for On-site Sewage Disposal

Performed By: DAVID E. KEATES, P.E.

Certification Number: _____

Witnessed By: DAVID ZAROZINSKI

| | |
|---|---|
| Location Address or Lot No. <u>690 NORTHEAST ST. AMHERST, MA</u> | Owner's Name, Address and Tel. # <u>253-5568</u> <u>WALTER WYSOCKI</u> <u>NORTHEAST ST.</u> <u>AMHERST, MA 01002</u> |
|---|---|

New Construction Repair

I certify that on November, 1994 I have passed the examination approved by the Department of Environmental Protection and that the above analysis has been performed by me consistent with the required training, expertise, and experience described in 310 CMR 15.018(2).

Office Review

HAMPSHIRE COUNTY - PAGE 7
Published Soil Survey Available: No Yes

Merrimac

Year Published _____ Publication Scale 1:15840

Soil Map Unit MeB

Drainage Class _____ Soil Limitations NONE

Surficial Geologic Report Available: No Yes

Year Published _____ Publication Scale _____

Geologic Material (Map Unit) _____

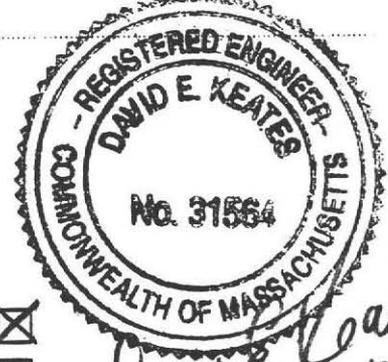
Landform OUTWASH PLAIN

Flood Insurance Rate Map:

Above 500 year flood boundary No Yes

Within 500 year flood boundary No Yes

Within 100 year flood boundary No Yes



David E. Keates
5/23/95

Wetland Area:

National Wetland Inventory Map (map unit) _____

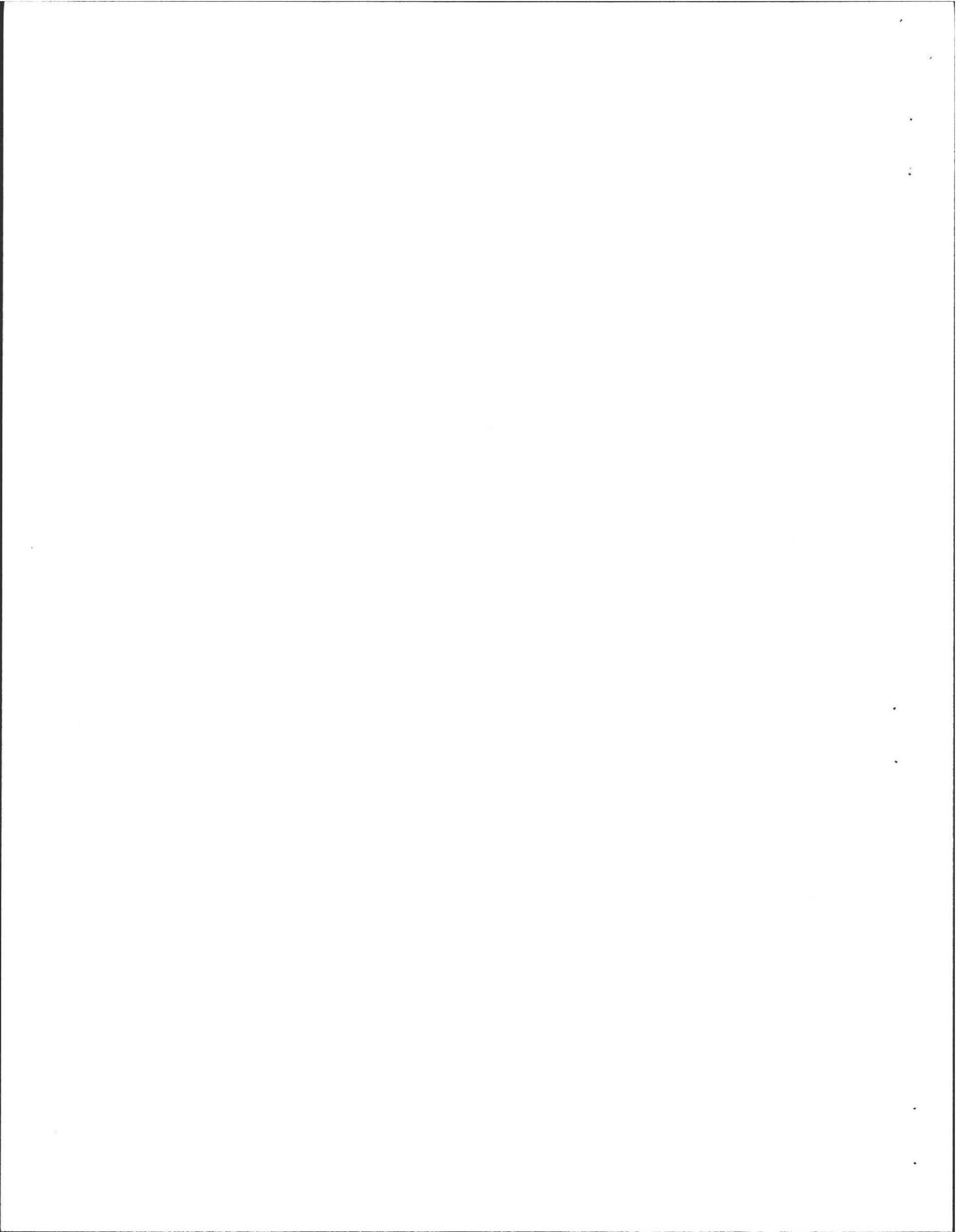
Wetlands Conservancy Program Map (map unit) _____

Current Water Resource Conditions (USGS): _____ Month _____

Range : Above Normal Normal Below Normal

Other References Reviewed: _____

Sheet 3 of 14



On-site Review

Deep Hole Number 1 Date: 5/23/95 Time: 7:30 A.M. Weather CLEAR

Location (identify on site plan) _____

Land Use GRAVEL Slope (%) 2 Surface Stones _____

Vegetation NONE

Landform OUTWASH PLAIN

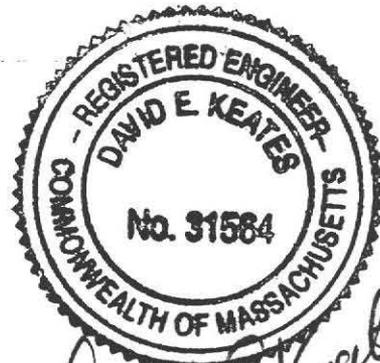
Position on landscape (sketch on the back) _____

Distances from:

Open Water Body _____ feet Drainageway _____ feet

Possible Wet Area >200 feet Property Line 25 feet

Drinking Water Well NA feet Other _____



David E. Keates
5/23/95

DEEP OBSERVATION HOLE LOG

| Depth from Surface (Inches) | Soil Horizon | Soil Texture (USDA) | Soil Color (Munsell) | Soil Mottling | Other (Structure, Stones, Boulders, Consistency, % Gravel) |
|-----------------------------|--------------|---------------------|----------------------|---------------|--|
| 0-20" | | GRAVEL | | | |
| 20"-60" | | SAND FINE | 10YR 4/8 | | LOOSE |
| 60"-120" | | SAND FINE | 2.5Y 6/2 | | |

Parent Material (geologic) _____

Depth to Bedrock: _____

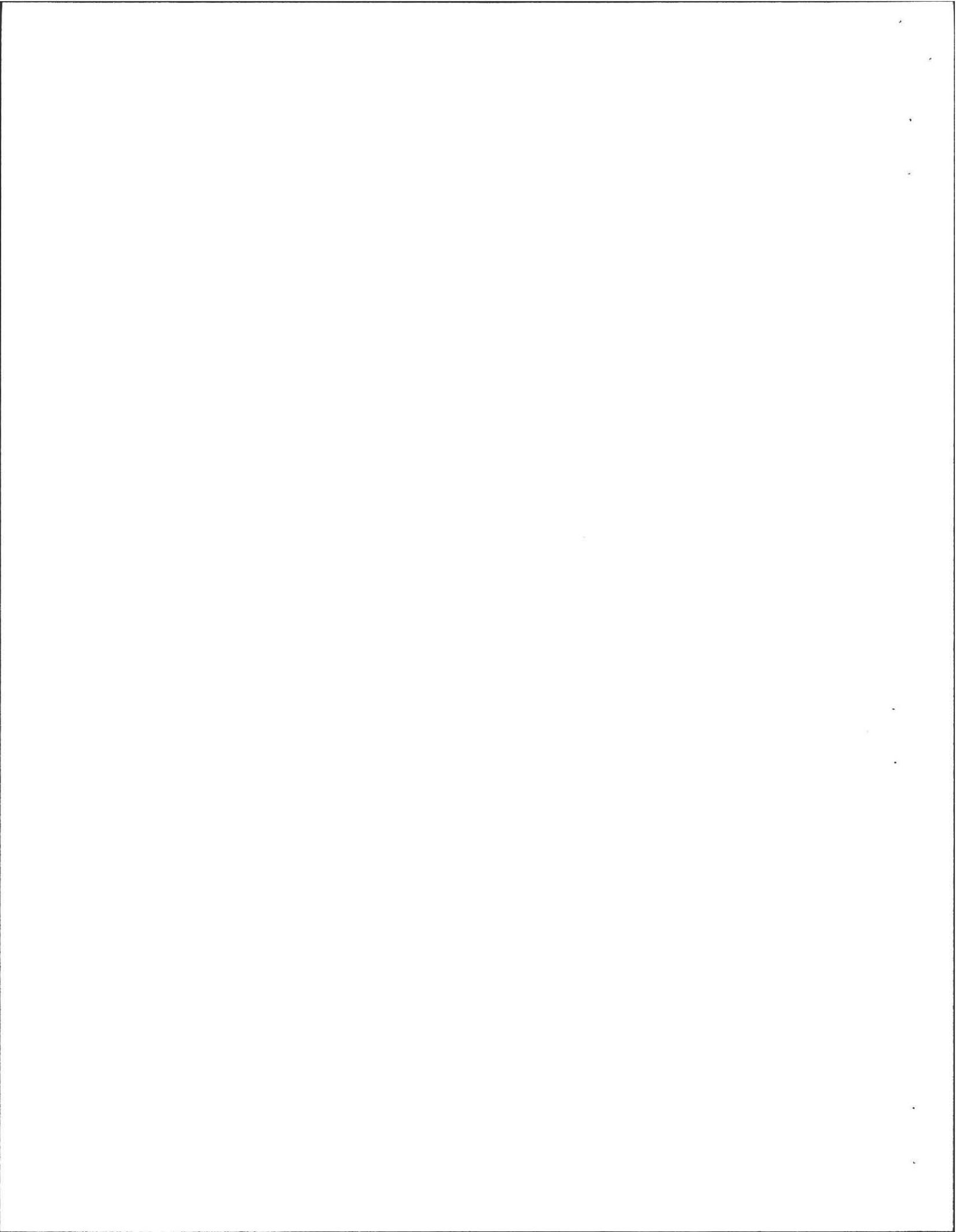
Depth to Groundwater: _____

Standing Water in the Hole: _____

Weeping from Pit Face: _____

Estimated Seasonal High Ground Water: 7 ft

Sheet 4 of 14



On-site Review

Deep Hole Number 2 Date: 5/23/95 Time: 8:00AM. Weather CLEAR

Location (identify on site plan)

Land Use GRAVEL PIT Slope (%) 2 Surface Stones NONE

Vegetation NONE

Landform OUTWASH PLAIN.

Position on landscape (sketch on the back)

Distances from:

Open Water Body feet Drainageway feet

Possible Wet Area 7200 feet Property Line 25 feet

Drinking Water Well feet Other



David E. Keates
5/23/95

DEEP OBSERVATION HOLE LOG

| Depth from Surface (Inches) | Soil Horizon | Soil Texture (USDA) | Soil Color (Munsell) | Soil Mottling | Other (Structure, Stones, Boulders, Consistency, % Gravel) |
|-----------------------------|--------------|---------------------|----------------------|---------------|--|
| 0-41" | | FINE SAND | 10 YR 6/8 | | LOOSE |
| 41"-126" | | FINE SAND | 2.5 Y 6/2 | | |

Parent Material (geologic)

Depth to Bedrock:

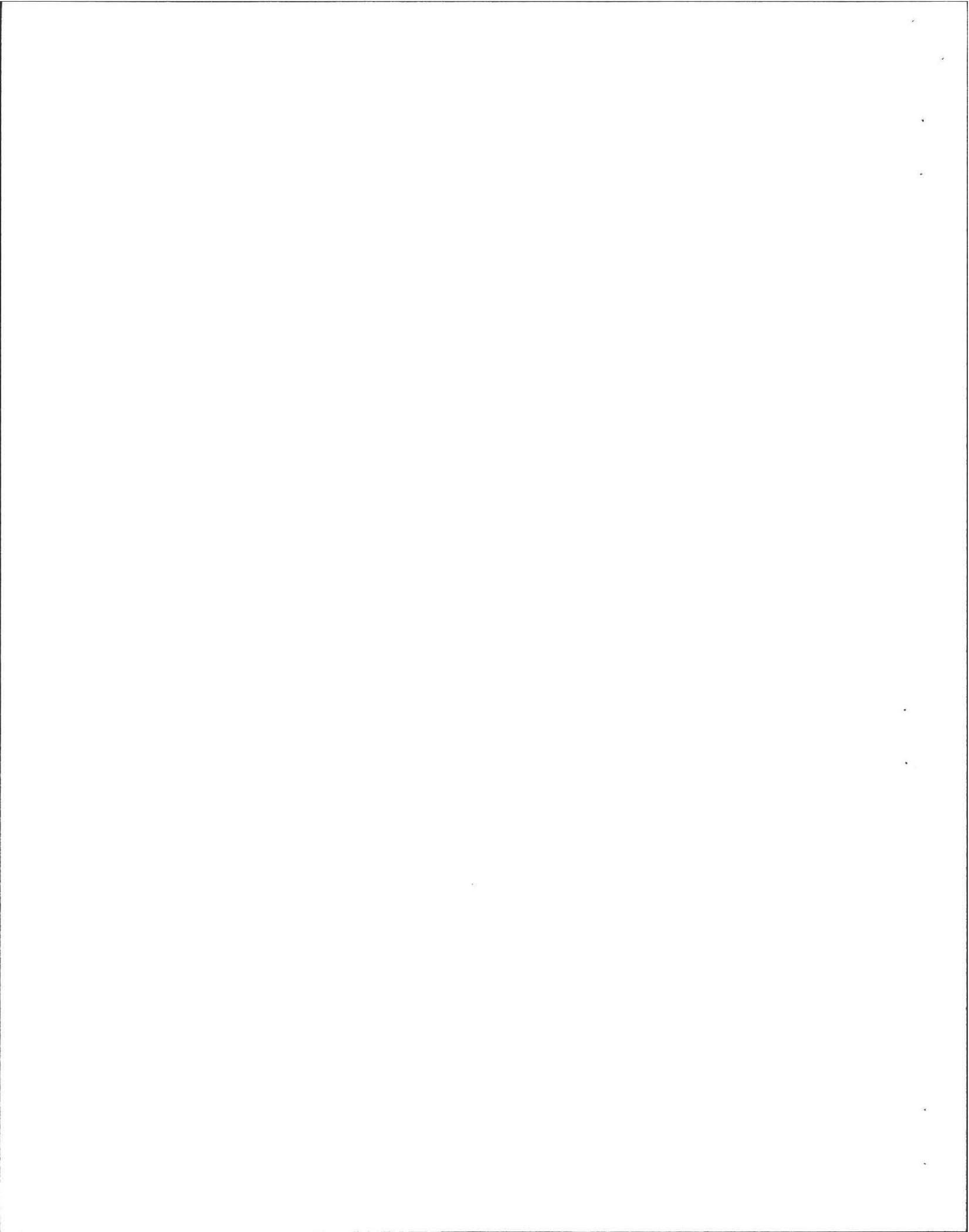
Depth to Groundwater:

Standing Water in the Hole:

Weeping from Pit Face:

Estimated Seasonal High Ground Water: 8'

Sheet 5 of 14



Determination for Seasonal High Water Table

Method Used:

- Depth observed standing in observation hole 96 inches
- Depth weeping from side of observation hole inches
- Depth to soil mottles inches
- Ground water adjustment feet



David E. Keates
5/23/95

Index Well Number Reading Date Index well level
 Adjustment factor Adjusted ground water level

| Percolation Test | | |
|--------------------|-------------------|-------------------|
| Date: 5/23/95 | | Time: |
| Observation Hole # | | |
| Depth of Perc | 36" TOP OF HOLE | 48" TOP OF HOLE |
| Start Pre-soak | 8:33 | 8:56 |
| End Pre-soak | 8:42 25 GALS USED | 9:05 25 GAL. USED |
| Time at 12" | 8:42 | |
| Time at 9" | | |
| Time at 6" | 8:44:30 | |
| Time (9"-6") | | |
| Rate Min./Inch | < 2 | < 2 |

Site Suitability Assessment: Site Passed Site Failed

Additional Testing Needed:

Performed By: DAVID E. KEATES, P.E.

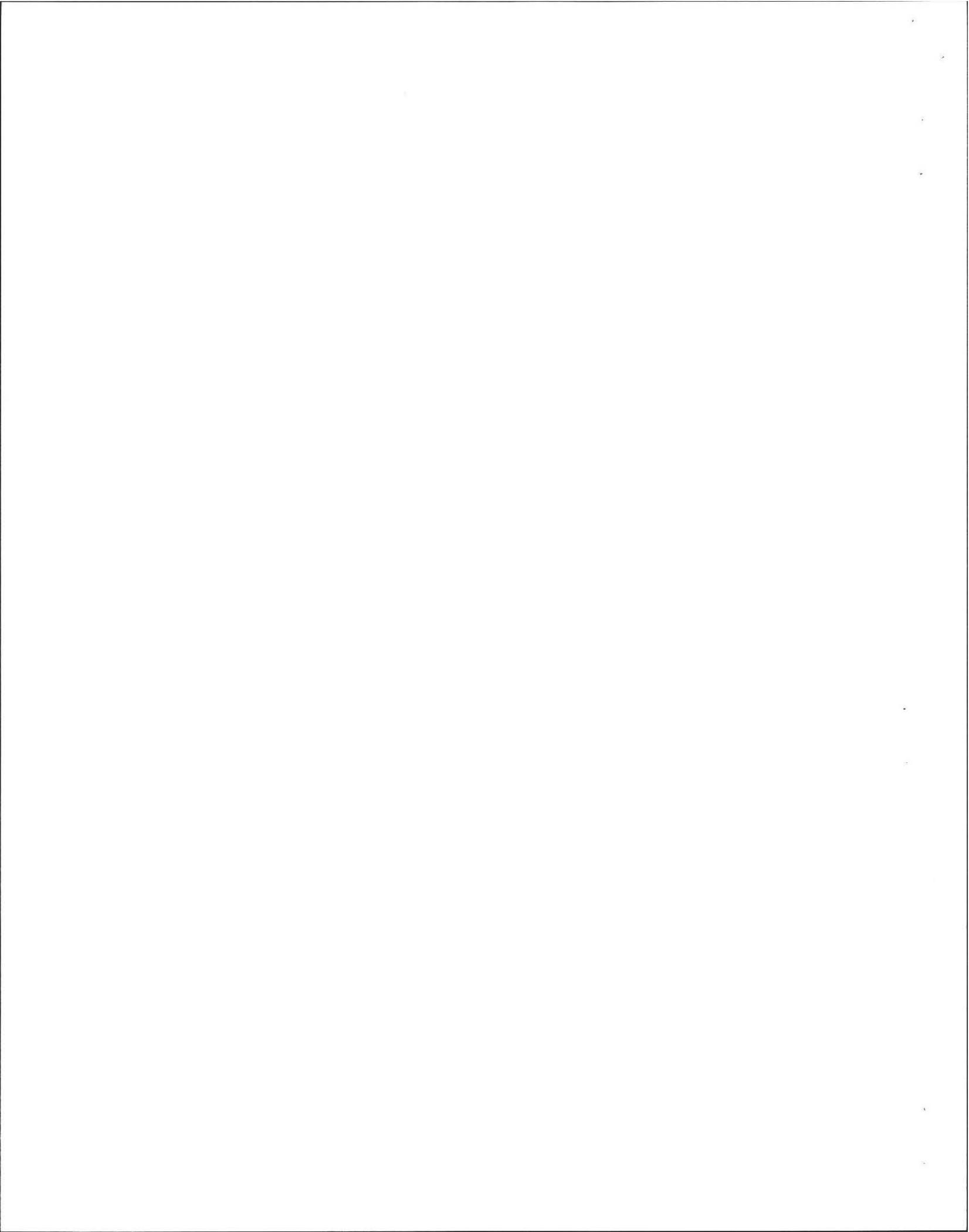
Certification Number:

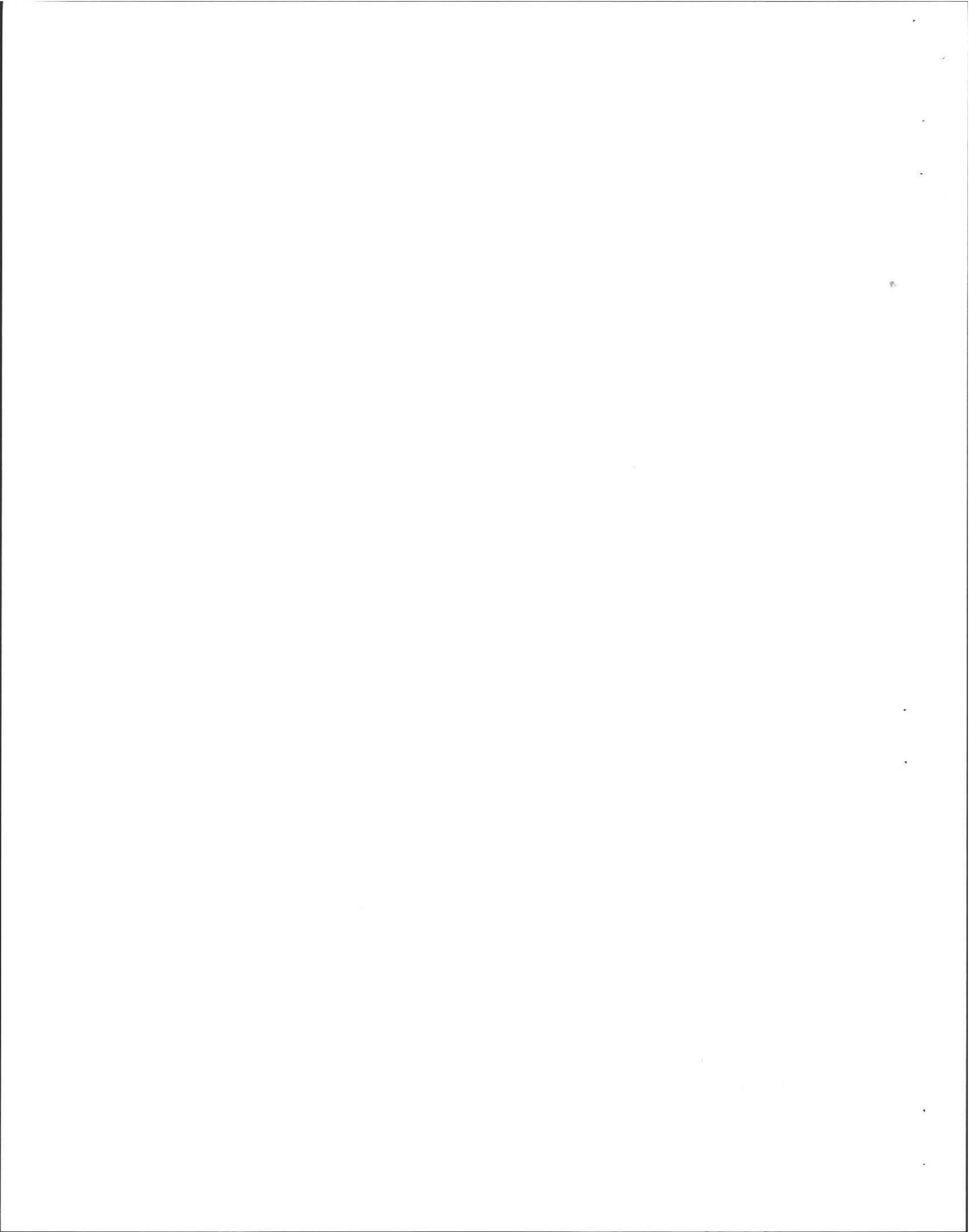
Witnessed By: DAVID ZAROZINSKI

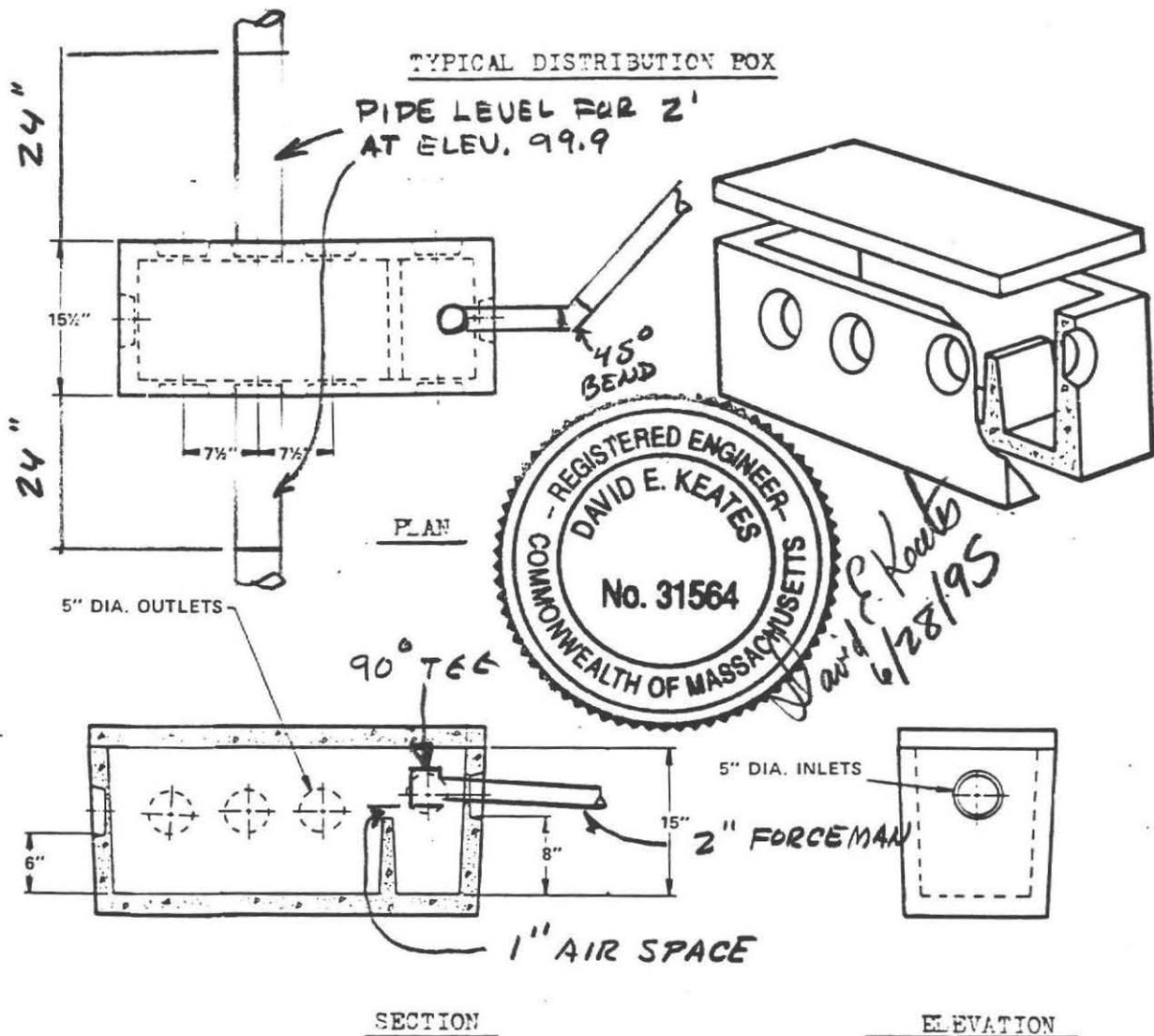
Comments:

I certify that on November, 1994 I have passed the examination approved by the Department of Environmental Protection and that the above analysis has been performed by me consistent with the required training, expertise, and experience described in 310 CMR 15.018(2).

sheet 6 of 14







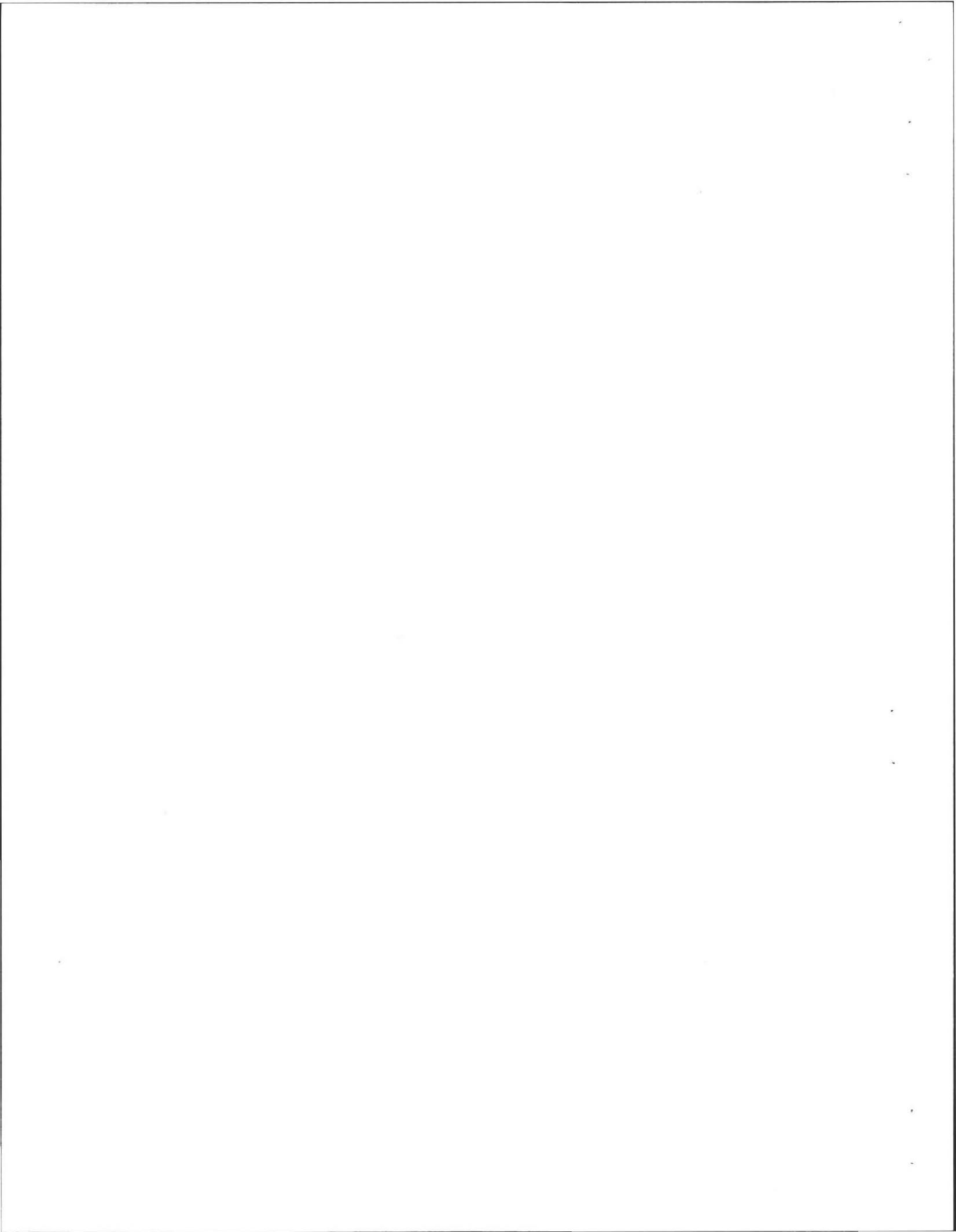
NOTES:

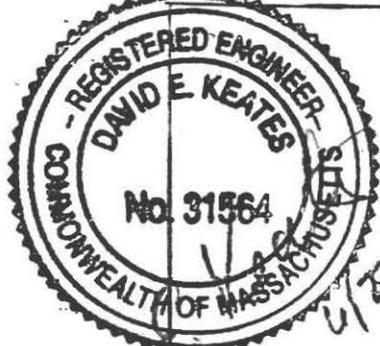
1. Distribution box outlets to be laid level for a minimum distance of 2 feet.
2. Box to be placed on a 6 inch layer of compacted 3/4-1 1/2" stone.
3. Concrete shall have a minimum compressive strength of 4,000 p.s.i. at 28 days.
4. Box and cover shall be capable of withstanding H2O loading.
5. Box shall be installed on a level stable base that will not settle.
6. The distribution box shall be constructed in such a manner as to provide ventilation of the disposal field, either through a special vent or back through the building sewer.
7. USE ROTONDO DB-5 W/ BAFFLE OR EQUAL

Sheet 8 of 14

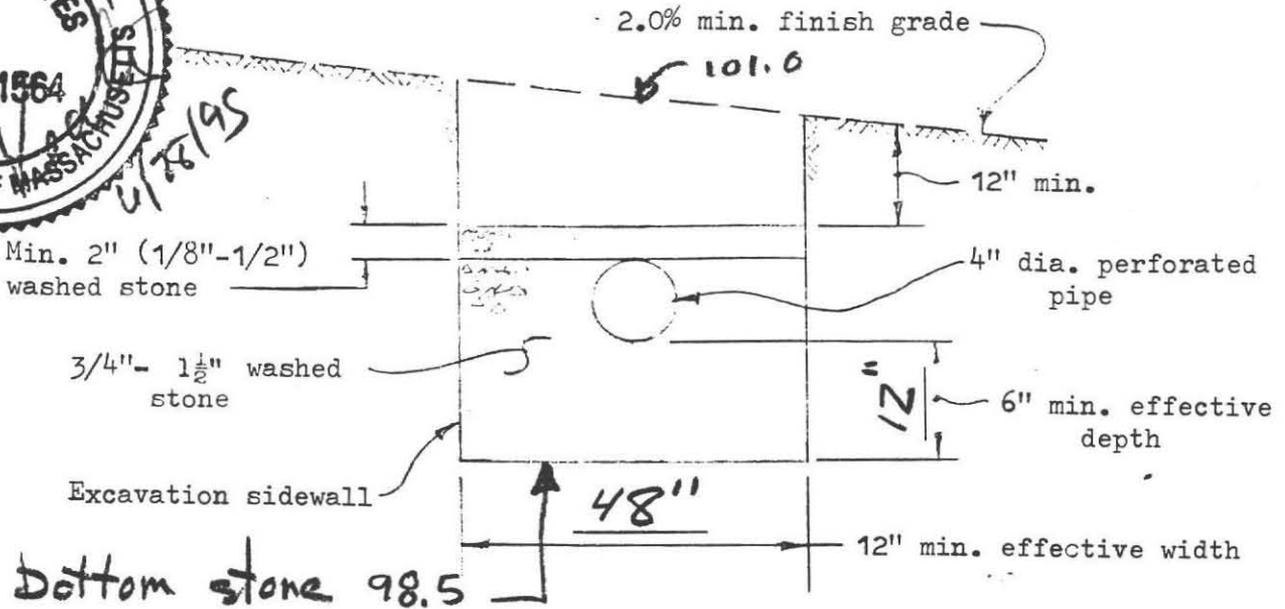
PROJECT
WALTER WYSOCKI
690 NORTHEAST ST.
AMHERST, MA

DAVID E. KEATES, P.E.
CONSULTING CIVIL ENGINEER
102 RUSSELL STREET
SUNDERLAND, MASSACHUSETTS 01375
Tel. 413-665-7670





TYPICAL LEACHING TRENCH



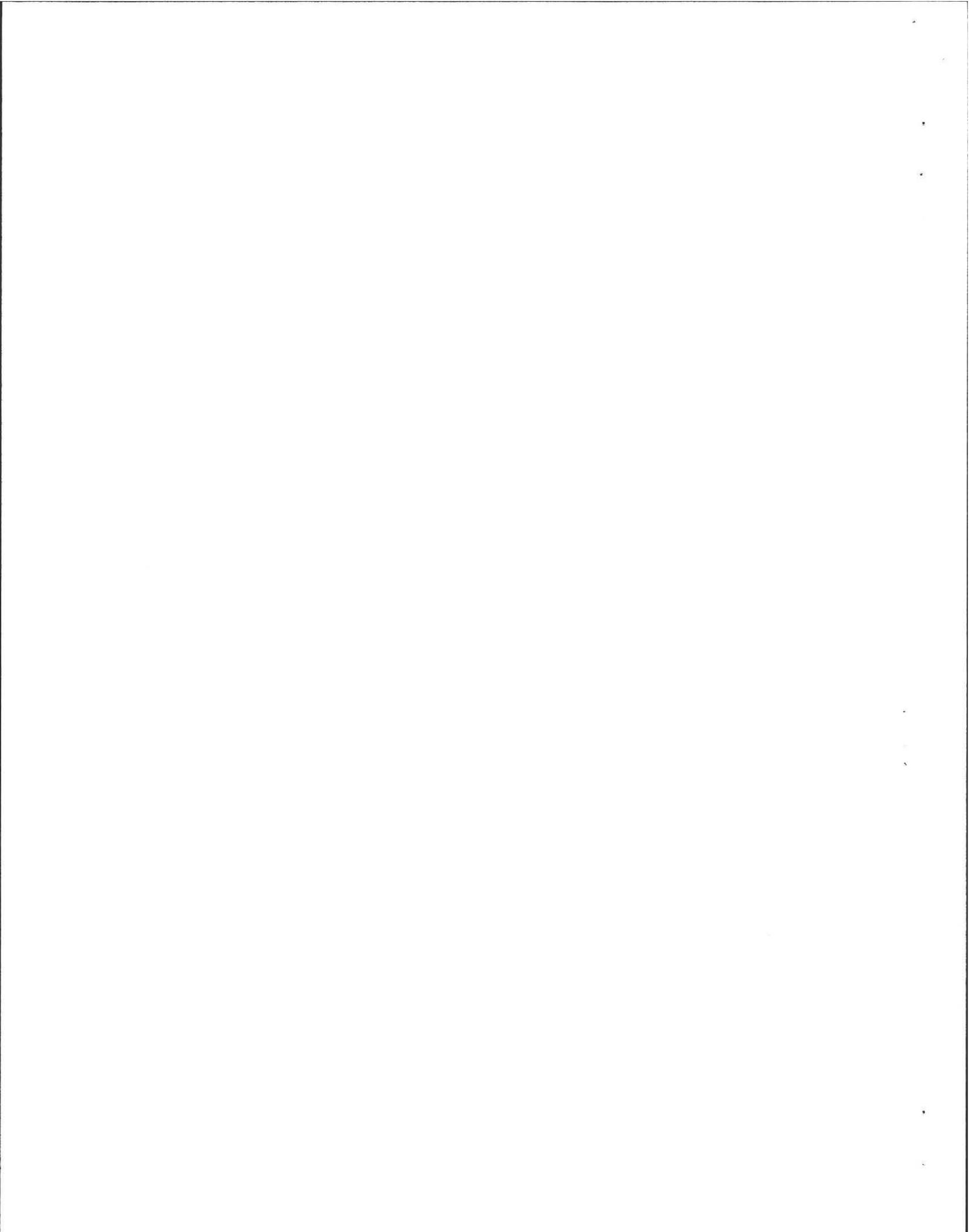
GENERAL NOTES:

1. Distance between excavation sidewalls shall be no less than twice the effective width or twice the effective depth of the trench, whichever is greater. In no case shall the distance between excavation sidewalls be less than 6 ft. if the area between the trenches is to be used for reserve area or 4 ft. if the area between the trenches is not used for reserve area.
2. All distribution pipe from the D-box to the leaching trench shall be unperforated and shall be laid with tight joints.
3. Trench pipe shall have a minimum slope of 0.005 ft/ft.
4. All stone must have less than 0.2% material finer than a number 200 sieve as determined by AASHTO T-11 and T-27 (latest edition).
5. Pipe shall be capped 12 inches from the end of the trench.
6. Pipe shall conform to the requirements of ASTM D2729 or ASTM D3350.
7. All system components shall be installed in accordance with TITLE V of the state sanitary code and any applicable local rules and regulations.
8. The bottom of all leach trenches shall be installed level.
9. Trench sidewall shall be scarified to remove any smearing of soil done during excavation.
10. Any change to this plan must be approved by the Board of Health and the Engineer.
11. The sewage disposal system shall not be backfilled prior to inspection and approval by the Board of Health and/or the design engineer.
12. Any conditions encountered during construction differing from those shown on the plans shall be reported to David E. Keates, P.E. before construction continues.
13. No permanent structure shall be constructed over the 100% expansion area.
14. Heavy equipment shall not be permitted to pass over the leaching area.
15. Elevations refer to ASSUMED DATUM SEE PLAN

Sheet 9 of 14

PROJECT
 WALTER WYBICKI
 690 NORTHEAST ST.
 AMHERST, MA.

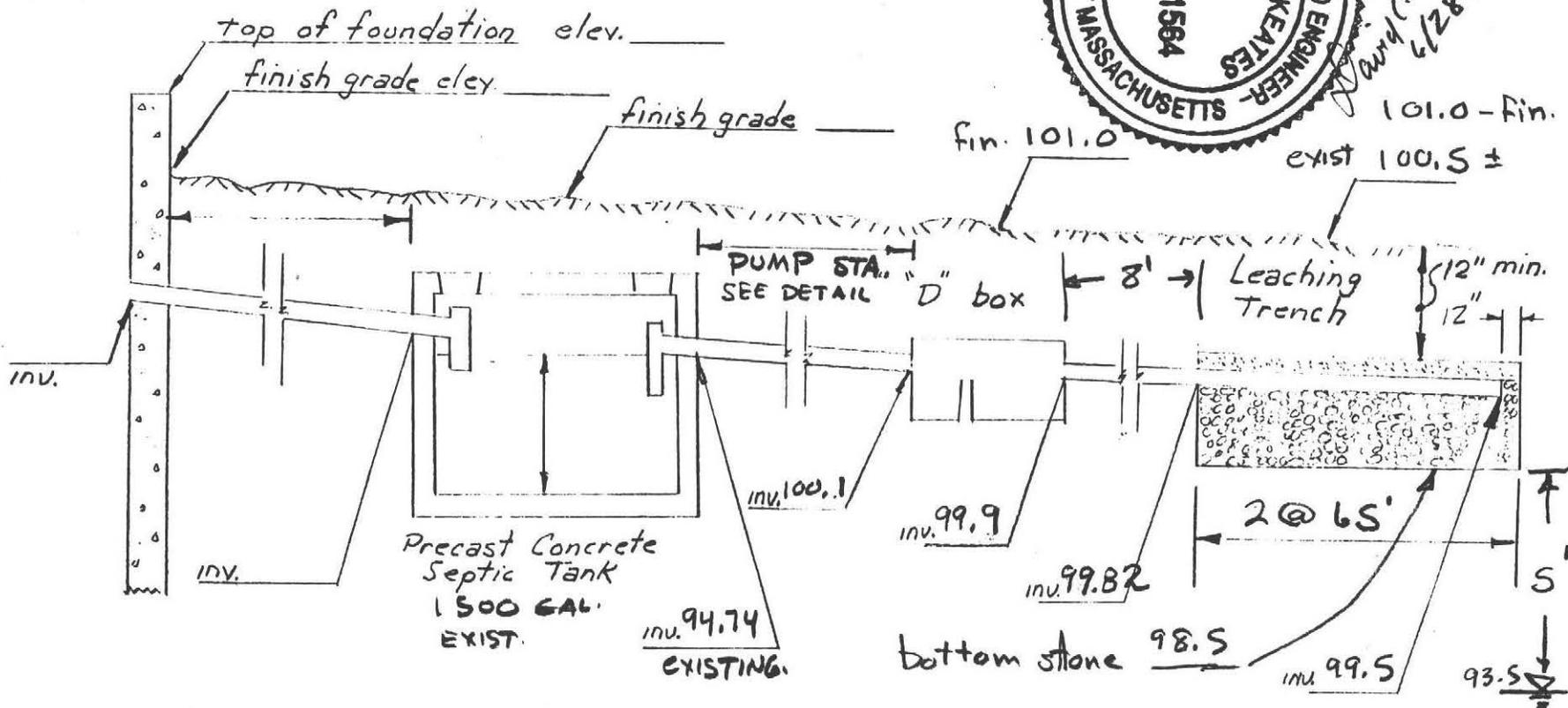
DAVID E. KEATES, P.E.
 CONSULTING CIVIL ENGINEER
 102 RUSSELL STREET
 SUNDERLAND, MASSACHUSETTS 01375
 Tel. 413-665-7670



PROJECT
WALTER WYSOCKI
69D NORTHEAST ST.
AMHERST, MA.

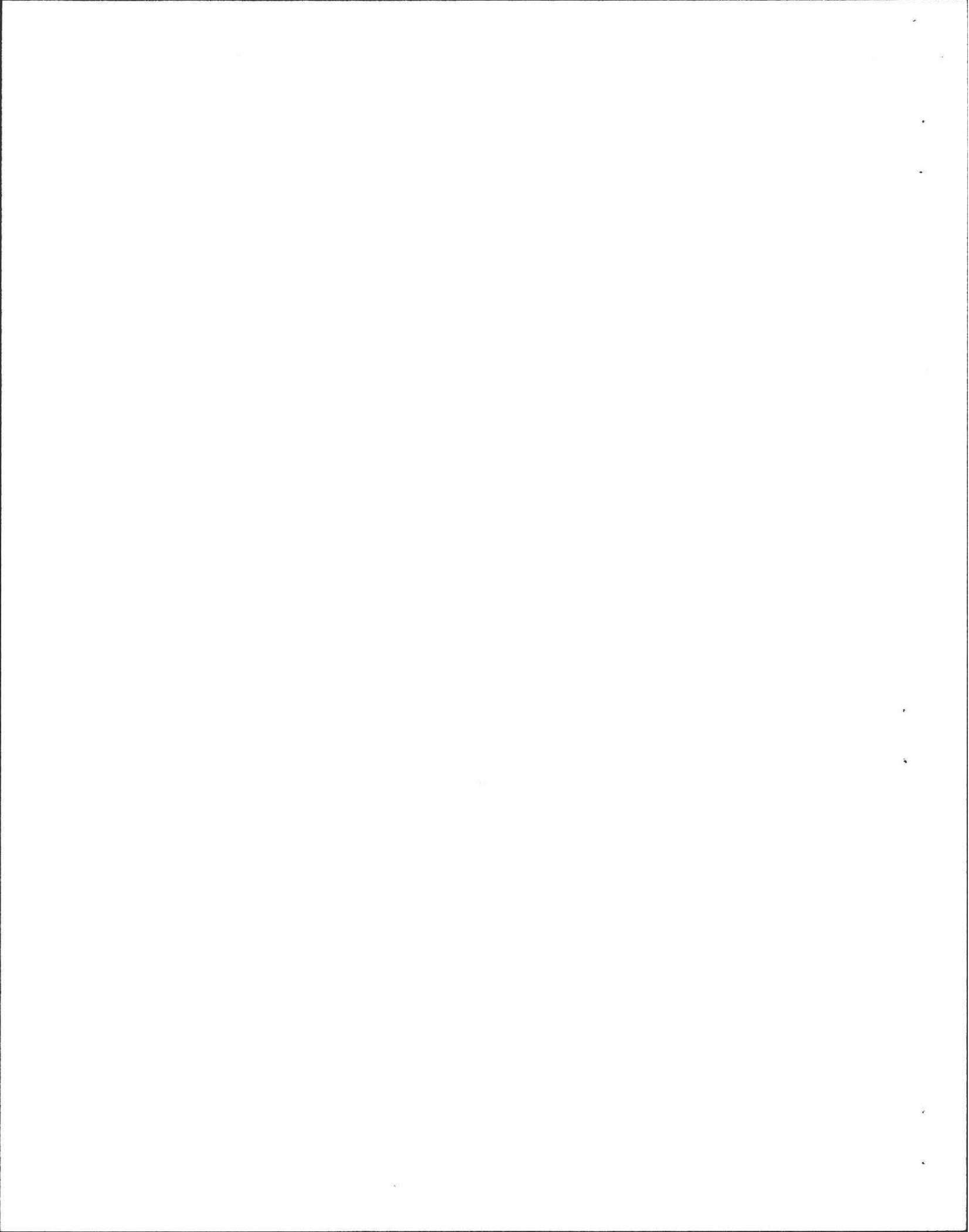
DAVID E. KEATES, P.E.
CONSULTING CIVIL ENGINEER
102 RUSSELL STREET
SUNDERLAND, MASSACHUSETTS 01375
Tel. 413-665-7670

Sheet 10 of 14



- NOTES:
1. THE GRADE ABOVE AND ADJACENT TO LEACHING TRENCH SHALL SLOPE AT LEAST 2.0 % TO PREVENT ACCUMULATION OF SURFACE WATER.
 2. LEACHING TRENCH DISTRIBUTION PIPE SHALL HAVE A MIN. SLOPE OF 0.005 %.
 3. THE BOTTOM OF EACH LEACHING TRENCH SHALL BE LEVEL.
 4. PIPE FROM FOUNDATION WALL TO SEPTIC TANK SHALL BE SCHEDULE 40 PVC OR EQUIVALENT AND HAVE A MIN. GRADE OF 1/4" PER FT.
 5. PIPE FROM SEPTIC TANK TO "D" BOX SHALL BE SCHEDULE 40 PVC OR EQUIVALENT AND HAVE A MIN. GRADE OF 1/8" PER FT.
 6. ALL PIPING TO BE 4" DIA.

SEPTIC SYSTEM PROFILE



Features

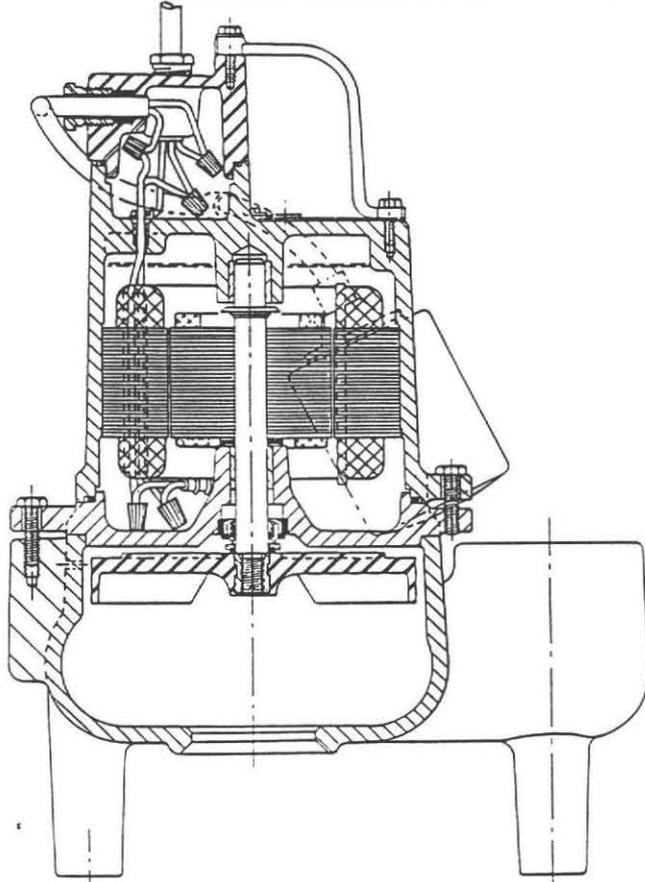
WALTER WYSOCKI
690 NORTHEAST ST.
AMHERST, MA.

Pump Impeller is recessed type — operates completely out of volute passage giving full opening for flow of liquids and solids up to 2 inch dia.
Motor Housing is heavy cast iron. Stator is pressed in for perfect alignment, best heat transfer.

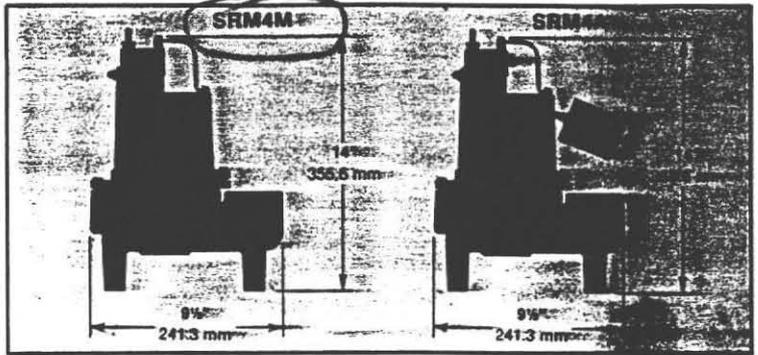
Powerful 4/10 HP Motor is oil filled for good insulation and lubrication of bearings and seal. Overload protection built-in. No starting switch or relay mechanism.
Thrust Washers and Sleeve Bearings are oil lubricated for smooth operation, long pump life.

Rotary Shaft Seal has carbon and ceramic faces for positive seal. Body is stationary, prevents string or trash from winding on seal.
Switch Housing (SRM4A) is completely sealed from pump liquid, easily removed for replacement if needed.

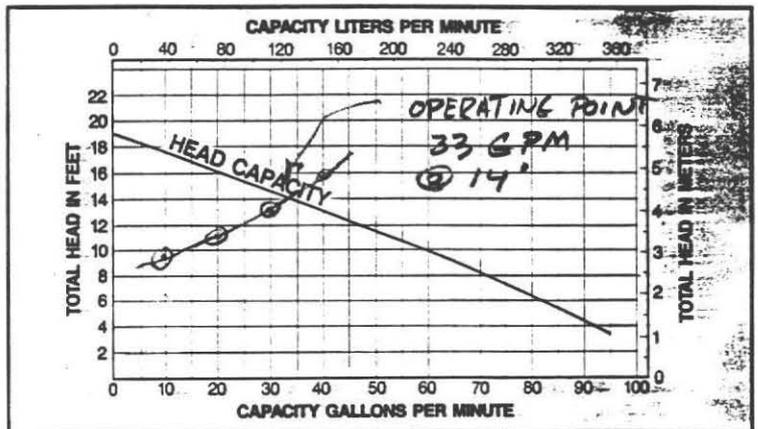
Mercury Switch 20 AMP rating, 3" cylinder, 90° angle operation, polypropylene material. Recommended Tether length is 4" from cord clip to switch case (Pump Down 9"). 'Pump Down' can be increased by increasing the Tether length.



Dimensions

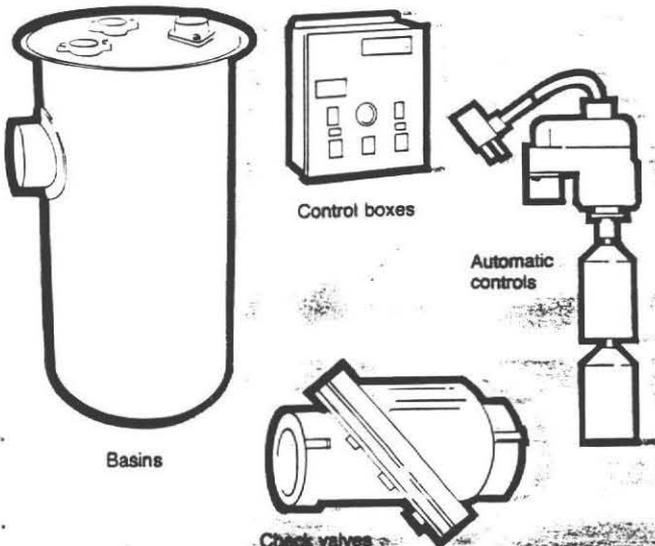


Performance Curve



Accessories

Myers offers a wide selection of accessory items for use with the SRM4 pumps: adjustable level controls, wet sump controls, alarm controls, electrical control boxes and switches, heavy duty check valves, polyethylene and fiberglass basins, etc.



Performance Table

| Total Head | Feet | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 |
|------------------|------|--------|--------|--------|--------|--------|--------|-------|-------|-------|------|------|
| Meters | | .61 | 1.22 | 1.83 | 2.44 | 3.05 | 3.66 | 4.27 | 4.88 | 5.49 | 6.10 | 6.71 |
| Gallons Per Hour | | 6,000 | 5,500 | 4,900 | 4,300 | 3,600 | 2,800 | 2,100 | 1,200 | 420 | | |
| Liters Per Hour | | 22,710 | 20,818 | 18,547 | 16,276 | 13,626 | 10,598 | 7,949 | 4,542 | 1,590 | | |

Performance Capabilities

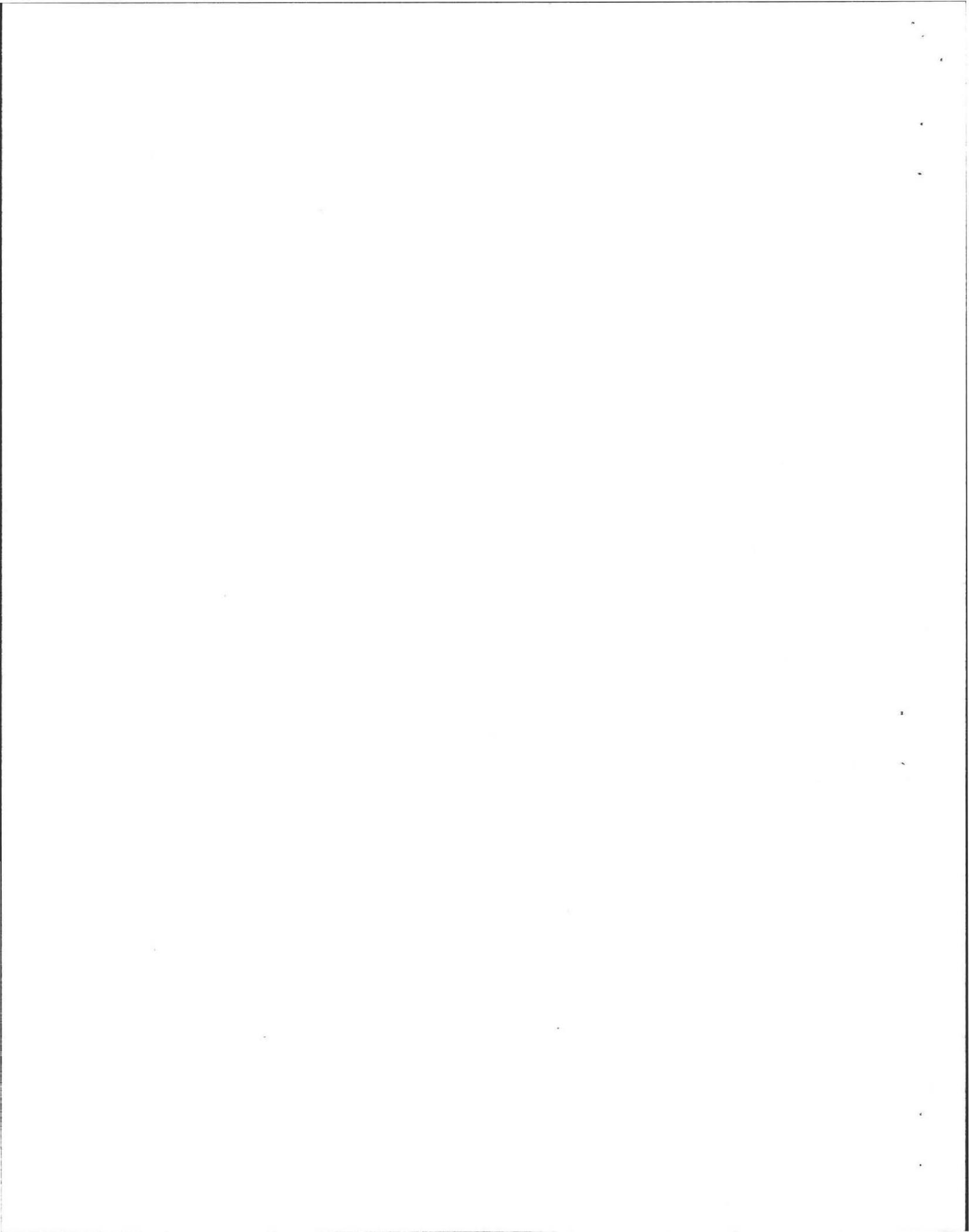
| | | |
|---------------------------|---|---------------------|
| Capacities to | 95 GPM | 360 LPM |
| Heads to | 19 feet | 5.79 meters |
| Pump Down Range* | 7 to 14 inches | 177.8 to 355.6 mm |
| Solid Handling Capability | 2 inch dia. solids | 50.8 mm dia. solids |
| Liquids Handled | Fresh, drainage effluent waste water | |
| Intermittent Liquid Temp. | 150°F | 66°C |
| Motor | 1/10 HP | |
| Electrical | 115/230 V., 12.0 A/6.0 A. 1 φ, 60 Hertz | |
| Discharge | 2 inch | 50.8 mm |

*Automatic Model. (manual pump variable with switch).

Myers

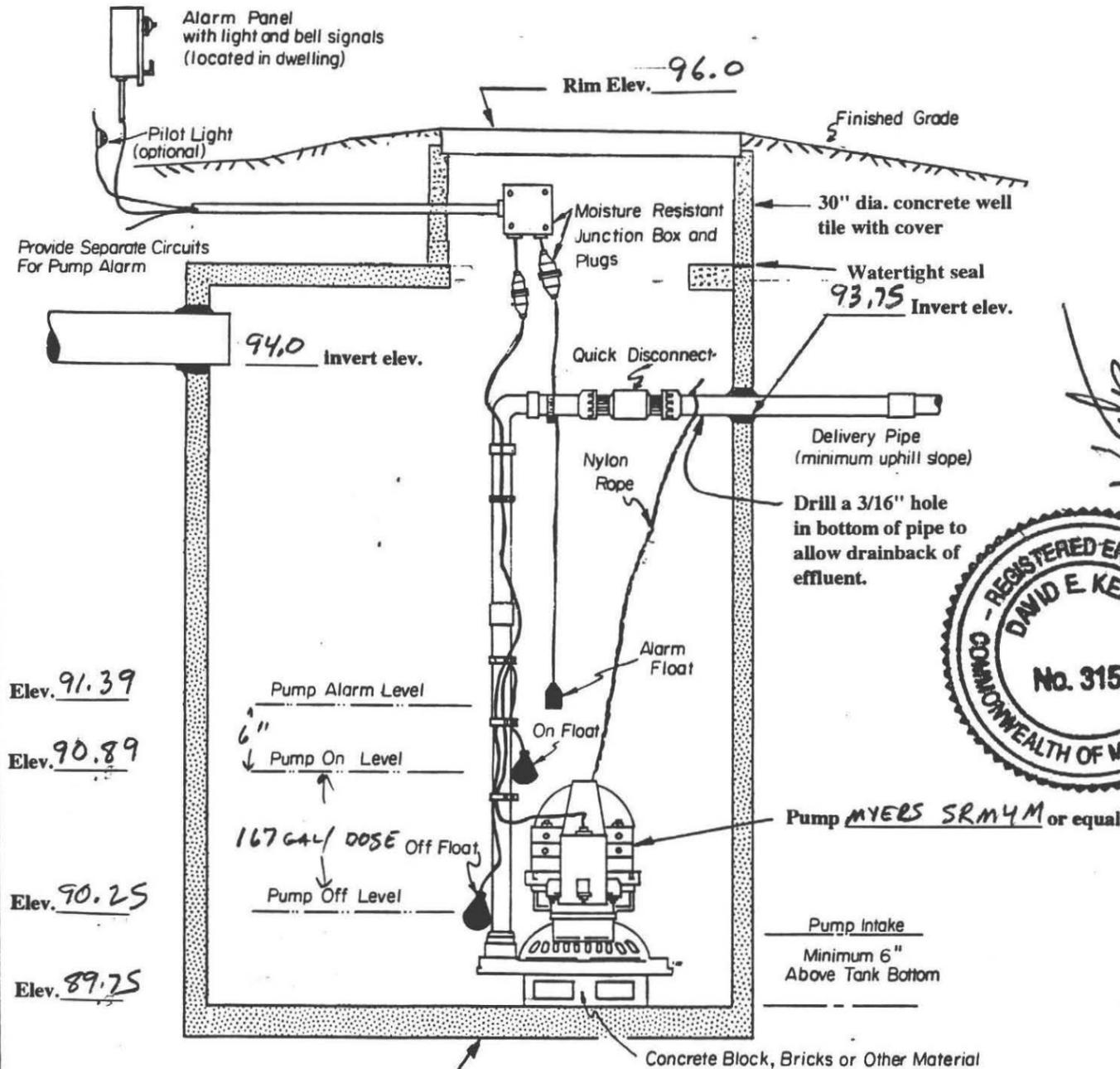
F.E. MYERS, a Pentair company
400 Orange Street, Ashland, OH 44805-2285
419/289-1144 FAX: 419/289-8658 TLX: 98-7443

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PUMP CHAMBER NOTES

1. Pump chamber to be wired to main electrical panel.
2. Pump controls shall be mercury type switch only.
3. Force main to be 2 " PVC Pipe Schedule 40.
4. All equipment & fasteners in the pump chamber shall be resistant to hydrogen sulfide corrosion.
5. Inspect and maintain components as recommended by manufacturer and required by 310 CMR 15.254 (1) d.
6. This assumes dimensions of the pump chamber as shown on this sheet. Dimensions other than those shown will require the "pump down" to be recalculated. Contact the design engineer if a tank with different dimensions is used.
7. Pump the sludge from the bottom of the pump chamber whenever the septic tank is pumped.
8. When using manhole extensions, locate the quick disconnect as high as possible in the extension for ease of removal.
9. When possible, locate quick disconnect and electrical connections within arm's reach of the surface.
10. Maintain minimal uphill slope on delivery line to distribution box.
11. Provide a "pump pilot light" to indicate when pump is operating.
12. Provide a 20" rectangular opening with a watertight cover in top of tank.



Tank to be installed on a compacted level stable base.

Pump System Design

Use a 1000 GAL SEPTIC
 Length = 8.0, Width = 4.3, Depth = 4.25 (Inside Dimensions)
 Use 2 " dia. sch. 40 pvc pipe. Length = 178 feet
 Vol. of pipe = $3.14 (1.0) (1.0) (178 \text{ ft.}) (7.48 \text{ gal/cu. ft.}) / 144 = \underline{29} gallons
 Leaching area to be dosed 4 times per day (310 CMR 15.254(1) d.)
 Dose required = total design flow divided by 4, equals 550 gal. per day / 4 = 138 gal. per dose.$

Increase dose by 29 gallons to allow for volume of 2 " diameter pressure line to distribution box.

Pump down = $\frac{138 + 29}{7.48 \text{ gal./cu.ft.} (8.0) (4.3)}$ gal. = 0.64 ft. = ~8 inches

From inv. elev. 94.0 to high water alarm at elev. 91.4, there will be 2.6 ft. of storage or $(8 \text{ ft.}) (4.3 \text{ ft.}) (2.6 \text{ ft.}) 7.48 \text{ gal./cu.ft.} = \underline{669} gallons. This will provide for $\frac{669 \text{ gal.}}{550 \text{ gal./day}} = \underline{1.2} days of storage should power go out.$$

Static Head = discharge elev. at D-box (100.1) minus pump off level (90.2) = 9.9 feet.

Friction Head Loss for 2 " pvc piping

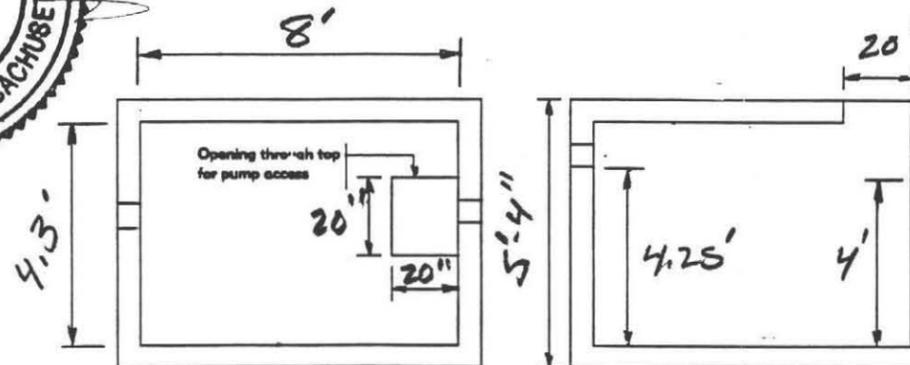
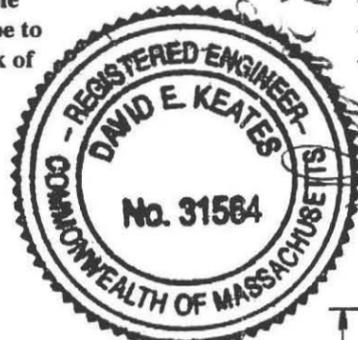
Discharge pipe equivalent length

| fitting | feet |
|---------------------|----------------|
| 2 - 90° elbows @ 9' | 18' |
| 2 - 45° @ 4' | 8 |
| 1 DISCONNECT | 2 |
| 1 TEE | 11 |
| Total = | 39 feet |

Force main length = 178 feet

Total pipe length = 178 feet + 39 feet = 217 feet

| GPM | H /100' | H for <u>217</u> ft. | Static Head | Total Head |
|-----|---------|----------------------|-------------|------------|
| 10 | .2 | .43 | 9.9 | 10.3 |
| 20 | .9 | 1.95 | | 11.8 |
| 30 | 1.8 | 3.91 | | 13.8 |
| 40 | 3.1 | 6.73 | | 16.6 |
| 50 | 4.7 | 10.20 | | 20.1 |



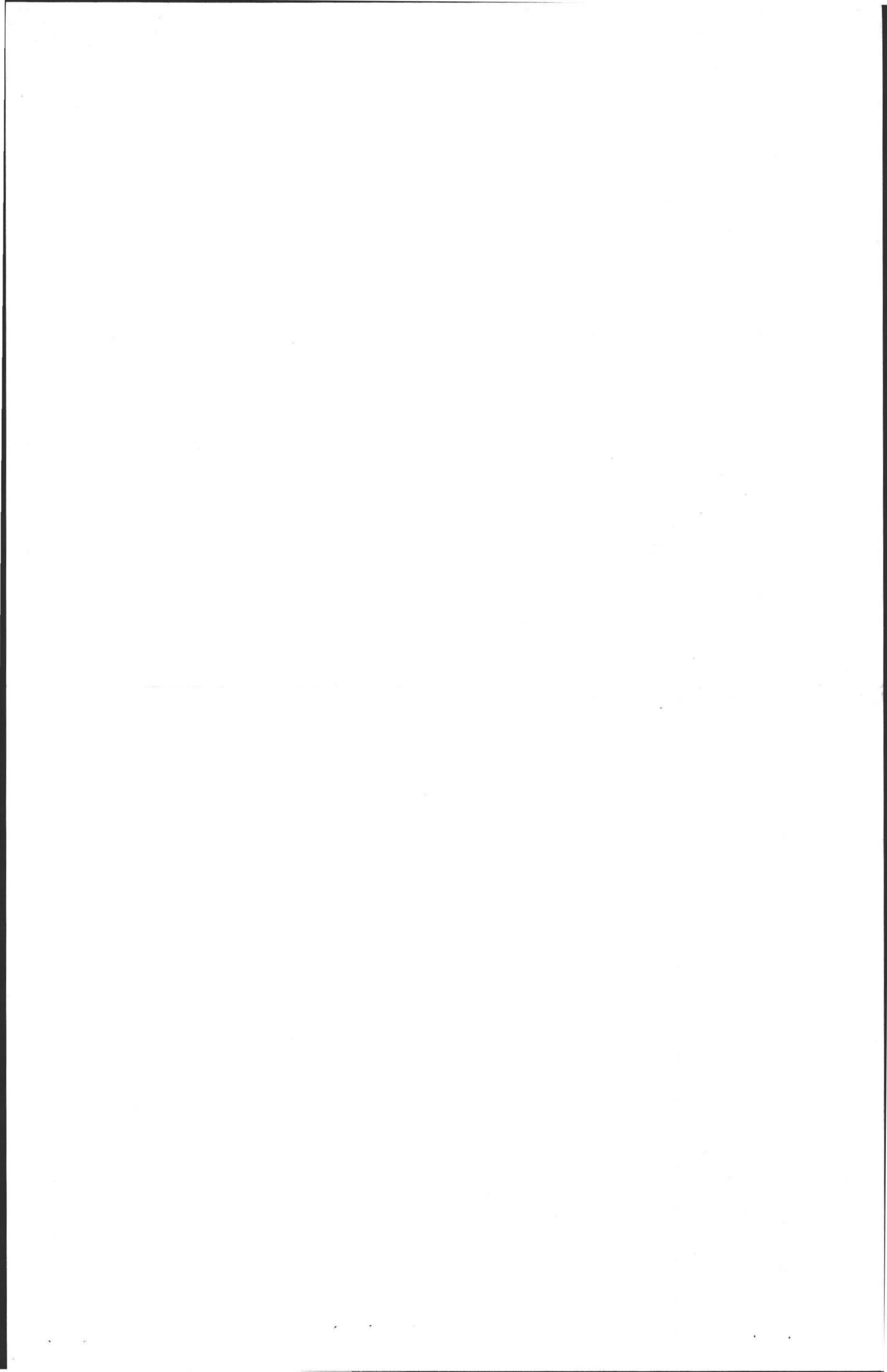
PLAN SECTION
PUMP CHAMBER FABRICATION DETAILS

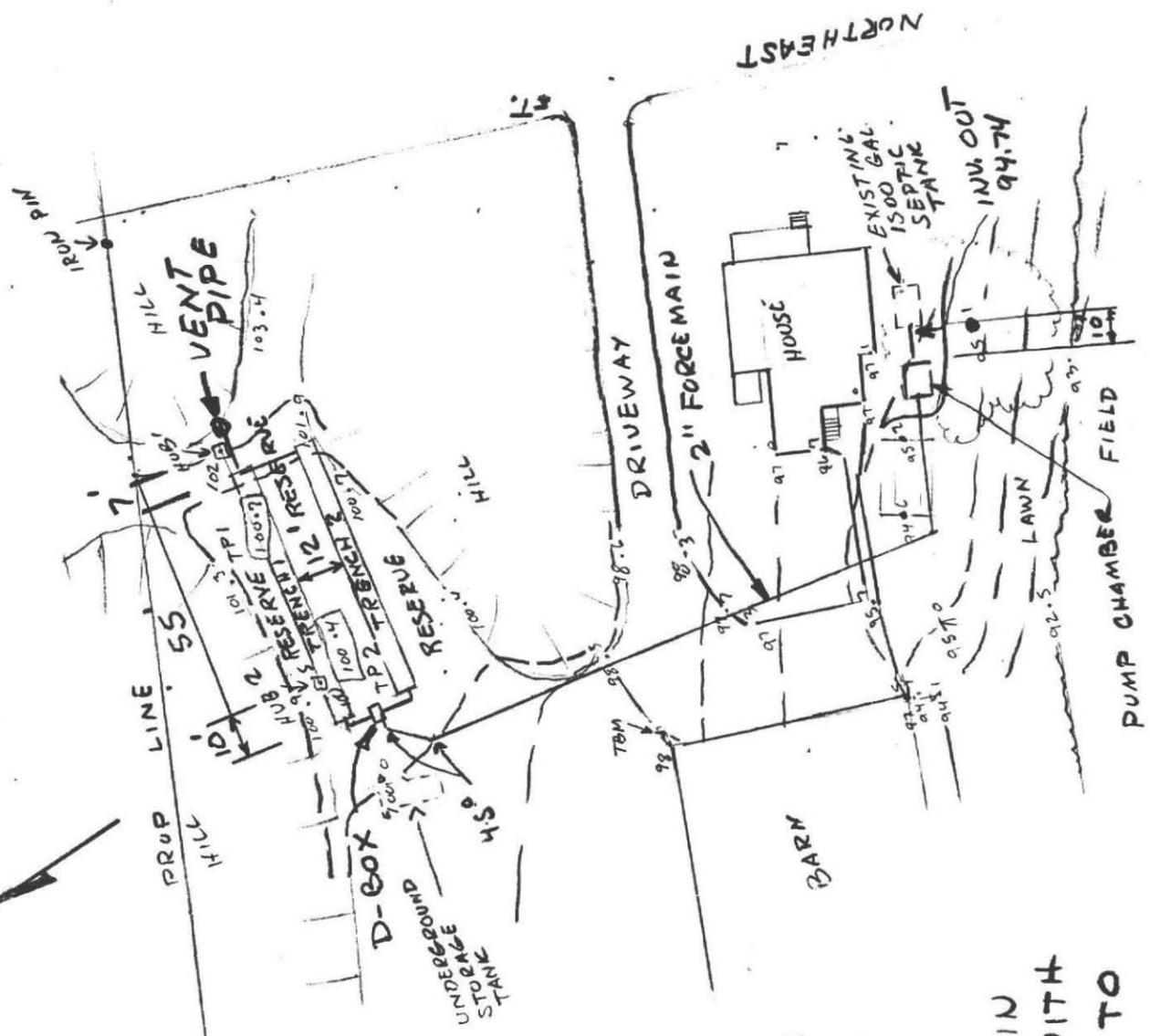
NO SCALE

David E. Keates, P.E.
 Consulting Civil Engineer
 102 Russell Street
 Sunderland, MA 01375
 Tel: 413-665-7670

Project
 WALTER WYSOCKI
 690 NORTHEAST ST.
 AMHERST, MA

| | | |
|-------------------------|---------|-----------------------|
| Initial Date 6/28/95 | Revised | Project No. |
| Drawn By: PEK | Scale | Sheet No. 13 of 14 |





TBM - TOP OF ANGLE
 IRON IN CONCRETE
 WALL
 ELEV. 100.00

- NOTES:
1. NORTH EDGE OF TRENCH 1 IN LINE WITH HUB 1 & HUB 2.
 2. TRENCH 1 BEGINS 10' FROM HUB 1
 3. 12' BETWEEN WALLS OF TRENCHES
 4. CONNECT ENDS OF PIPE IN EACH TRENCH TOGETHER WITH 4" SOLID PIPE AND RUN TO VENT AT TOE OF SLOPE
 5. MAINTAIN UPHILL SLOPE TO D-BOX FOR FORCEMAIN SO EFFLUENT WILL DRAIN BACK TO PUMP CHAMBER.
 6. MAINTAIN 24" COVER (MIN.) OVER FORCEMAIN.

