SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Department of Human Services
Division of Health Engineering, SHS 10
(207) 287-5672 Fax (207 287-3165

PROPERTY LOCATION

City, Town, or Plantation	Augusta
Street or Road	Bolton Hill Rd
Subdivision, Lot #	Forest View #1

>> Caution Permit Required -- Attach in Space Below <<

AUGUSTA
Date Permit Issued: 10-7-2005
PERMIT # 5660
$ 100.00
TOWN COPY
☐ If Double Fee Charged
FEE
Local Plumbing Inspector Signature
L.P.I. # 157

OWNER/APPLICANT INFORMATION

Name (last, first, MI)	Matthews, Brenda L. ☒ Owner ☐ Applicant
Mailing Address of Owner/Applicant	30 Bolton Hill Rd Augusta, ME 04330
Daytime Tel. #	622-5309

Municipal Tax Map # 8 Lot # 58B

Owner or Applicant Statement

I state and acknowledge that the information submitted is correct to the best of my knowledge and understand that any falsification is reason for the Department and/or Local Plumbing Inspector to deny a Permit.

Brenda Matthews — 10/4/05
Signature of Owner or Applicant — Date

Caution: Inspection Required

I have inspected the installation authorized above and found it to be in compliance with the Subsurface Wastewater Disposal Rules Application.

(1st) Date Approved

Local Plumbing Inspector Signature — (2nd) Date Approved

PERMIT INFORMATION

TYPE OF APPLICATION

☒ 1. First Time System
☐ 2. Replacement System
Type Replaced: _____
Year Installed: _____
☐ 3. Expanded System
☐ a. Minor Expansion
☐ b. Major Expansion
☐ 4. Experimental System
☐ 5. Seasonal Conversion

THIS APPLICATION REQUIRES

☒ 1. No Rule Variance
☐ 2. First Time System Variance
☐ a. Local Plumbing Inspector Approval
☐ b. State & Local Plumbing Inspector Approval
☐ 3. Replacement System Variance
☐ a. Local Plumbing Inspector Approval
☐ b. State & Local Plumbing Inspector Approval
☐ 4. Minimum Lot Size Variance
☐ 5. Seasonal Conversion Approval

DISPOSAL SYSTEM COMPONENTS

☒ 1. Complete Non-engineered System
☐ 2. Primitive System (graywater & alt. toilet)
☐ 3. Alternative Toilet, specify: _____
☐ 4. Non-engineered Treatment Tank (only)
☐ 5. Holding Tank, _____ gallons
☐ 6. Non-engineered Disposal Field (only)
☐ 7. Separated Laundry System
☐ 8. Complete Engineered System (2000 gpd or more)
☐ 9. Engineered Treatment Tank (only)
☐ 10. Engineered Disposal Field (only)
☐ 11. Pre-treatment, specify: _____
☐ 12. Miscellaneous Components

SIZE OF PROPERTY

141,000 ☒ sq. ft. ☐ acres

DISPOSAL SYSTEM TO SERVE

☒ 1. Single Family Dwelling Unit, No of bedrooms: 3
☐ 2. Multiple Family Dwelling, No. of Units: _____
☐ 3. Other: _____ (specify)
Current Use: ☐ Seasonal ☒ Year Round ☐ Undeveloped

TYPE OF WATER SUPPLY

☒ 1. Drilled Well ☐ 2. Dug Well ☐ 3. Private
☐ 4. Public ☐ 5. Other:

SHORELAND ZONING

☐ Yes ☒ No

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)

TREATMENT TANK

☒ 1. Concrete
☒ a. Regular
☐ b. Low profile
☐ 2. Plastic
☐ 3. Other: _____
CAPACITY 1000 gallons

DISPOSAL FIELD TYPE & SIZE

☒ 1. Stone Bed ☐ 2. Stone Trench
☐ 3. Proprietary Device
☐ a. Cluster array ☐ c. Linear
☐ b. Regular load ☐ d. H-20 load
☐ 4. Other: _____
SIZE 900 ☒ sq. ft. ☐ lin. ft.

GARBAGE DISPOSAL UNIT

☒ 1. No ☐ 2. Yes ☐ 3. Maybe
If Yes or Maybe, specify one below:
☐ a. Multi-compartment Tank
☐ b. ____ Tanks in Series
☐ c. Increase in Tank Capacity
☐ d. Filter on Tank Outlet

DESIGN FLOW

270 gallons per day
BASED ON:
☒ 1. Table 501.1 (dwelling unit(s)
☐ 2. Table 502.2 (other facilities)
SHOW CALCULATIONS
-- for other facilities --

SOIL DATA & DESIGN CLASS

PROFILE / CONDITION / DESIGN
3 / C / 2
at Observation Hole # 2
Depth 15" Elevation 351"
OF MOST LIMITING SOIL FACTOR

DISPOSAL FIELD SIZING

☐ 1. Small -- 2.0 sq. ft./gpd
☐ 2. Medium -- 2.6 sq. ft./gpd
☒ 3. Medium-Large -- 3.3 sq. ft./gpd
☐ 4. Large -- 4.1 sq. ft./gpd
☐ 5. Extra-Large -- 5.0 sq. ft./gpd

EFFLUENT/EJECTOR PUMP

☐ 1. Not Required
☒ 2. May Be Required
☐ 3. Required
Specify only for engineered systems:
DOSE: _____ gallons

☐ 3. Section 503.0 (meter readings)
ATTACH WATER-METER DATA

SITE EVALUATOR STATEMENT

I certify that on 10/2/05 (date) I completed a site evaluation on this property and state that the data reported are accurate and that the proposed system is in compliance with the State of Maine Subsurface Wastewater Disposal Rules (10-144A CMR 241).

David P. Rochue — 154 — 10/2/05
Site Evaluator Signature — SE # — Date

David P. Rochue — 622-7487
Site Evaluator Name Printed — Telephone #

Note: Changes to or deviations from the design should be confirmed with the Site Evaluator.

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Department of Human Services
Division of Health Engineering, Station 10
(207) 287-5672 FAX (207) 287-3165

Town, City, Plantation	Street, Road, Subdivision	Owner or Applicant Name
AUGUSTA	Bolton Hill Rd.	Brenda Matthews

SITE PLAN

Scale: 1" = _____ ft.

SEE ATTACHED SITE PLAN

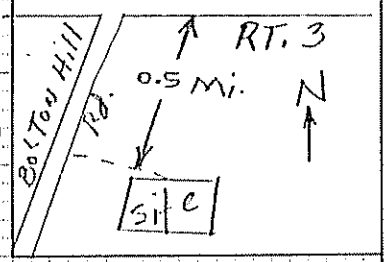
NOTE: Do not install when soil is frozen or saturated.

Well to be minimum 100' from septic tank and leach field.

Dwelling to be minimum 8' from septic tank and leach field.

SITE LOCATION MAP

(Attach map from Maine Atlas for First Time System Variance)



SOIL PROFILE DESCRIPTION AND CLASSIFICATION

(Location of Observation Holes Shown Above)

Observation Hole # TP 1

☒ Test Pit ☐ Boring

½" Depth of organic horizon above mineral soil

Depth below mineral soil surface (inches)	Texture	Consistency	Color	Mottling
0	gravelly	friable	Dark	None
6	fine		Brown	observed
12	sandy		Dark yellow Brown	
18	loam		olive	common
24		firm	Brown	faint
30				
36				
42				
48				

Soil Profile	Classification Condition	Slope Percent	Limiting Factor Depth	
3	C	6-15	18	☒ Groundwater ☐ Restrictive Layer ☐ Bedrock

Observation Hole # TP 2

☒ Test Pit ☐ Boring

½" Depth of organic horizon above mineral soil

Depth below mineral soil surface (inches)	Texture	Consistency	Color	Mottling
0	Gravelly	Friable	Dark Brown	None
6	fine		Dk Brown	observed
12	sandy		olive	Few
18	loam	Firm	Brown	faint
24				
30				
36				
42				
48				

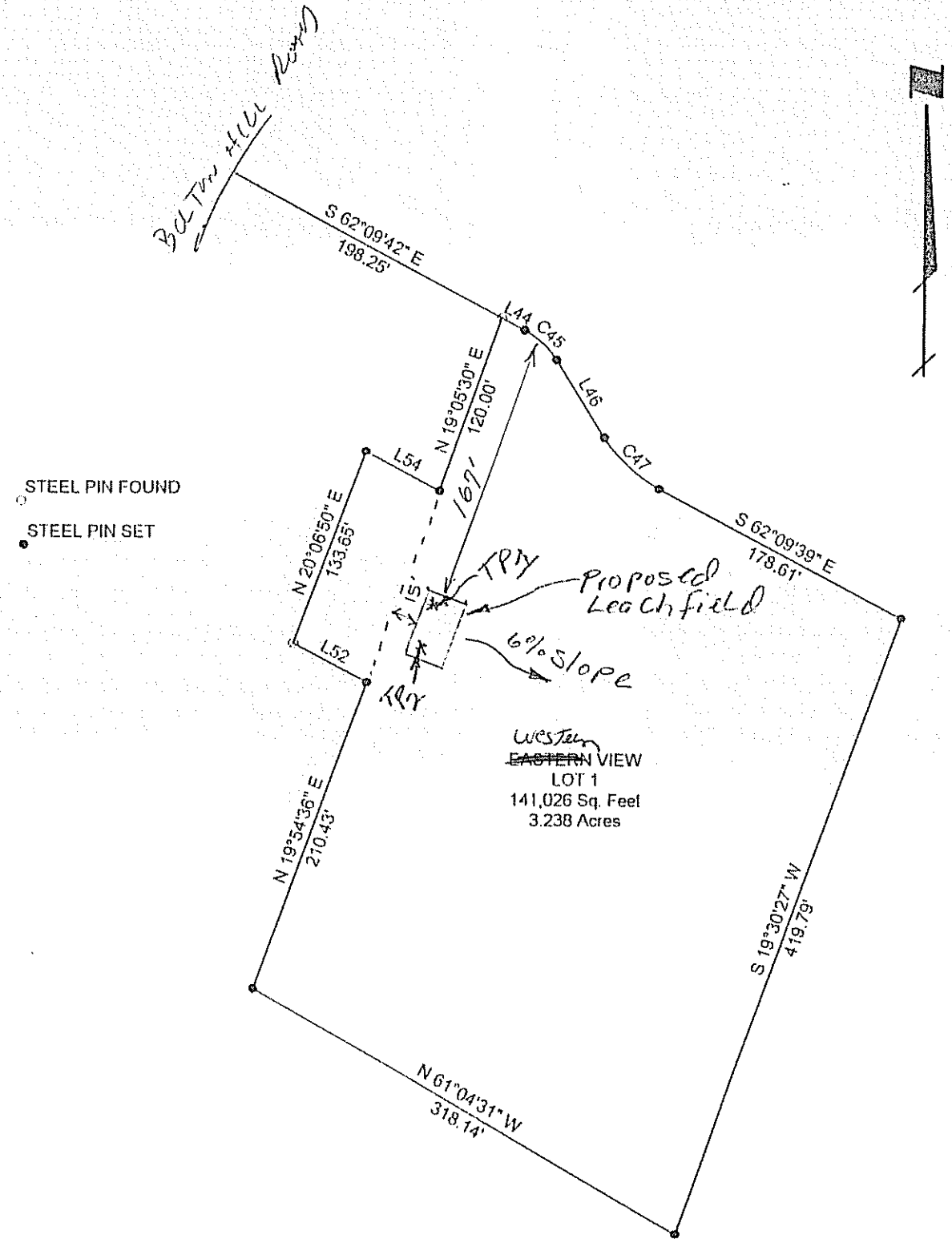
Soil Profile	Classification Condition	Slope Percent	Limiting Factor Depth	
3	C	6	15	☒ Groundwater ☐ Restrictive Layer ☐ Bedrock

David P. Maguire — Site Evaluator Signature

154 — SE #

10/2/05 — Date

Brenda Matthews



EasternView Lot # 1		
Bolton Hill Road		
Augusta, ME		
DATE: 9/13/2005	SCALE: 1" = 100'	DRAWN BY: eo

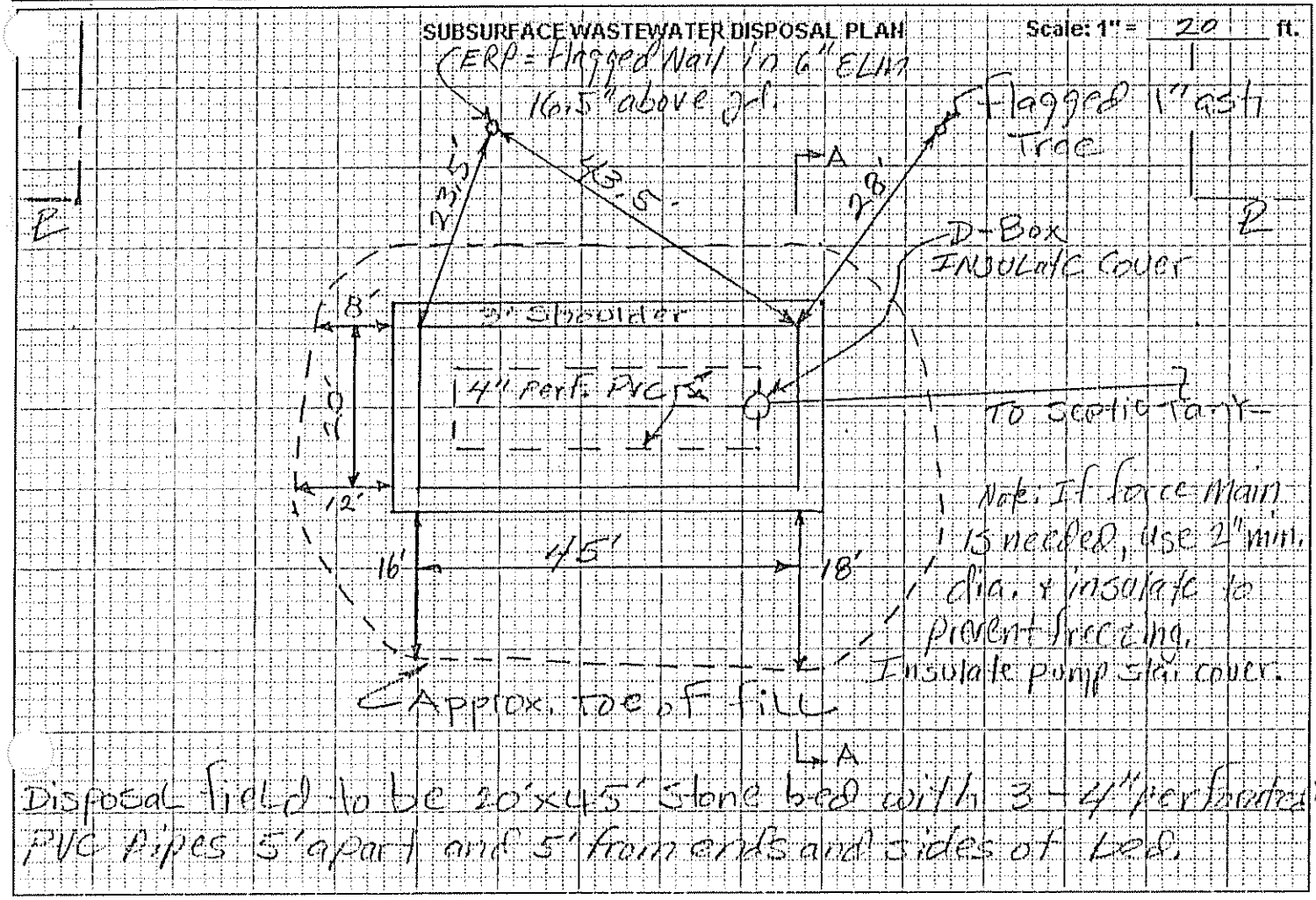
SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Department of Human Services
Division of Health Engineering, Station 10
(207) 287-5672 FAX (207) 287-3165

Town, City, Plantation	Street, Road, Subdivision	Owner or Applicant Name
AUGUSTA	ROLTON HILL Rd.	Brenda Mathews

SUBSURFACE WASTEWATER DISPOSAL PLAN

Scale: 1" = 20 ft.



Disposal field to be 20'x45' stone bed with 3 - 4" perforated PVC pipes 5' apart and 5' from ends and sides of bed.

BACKFILL REQUIREMENTS		CONSTRUCTION ELEVATIONS		ELEVATION REFERENCE POINT
Depth of Backfill (upslope)	24"	Finished Grade Elevation	-12"	Location & Description: flagged nail in 6" elm 16.5" above grd.
Depth of Backfill (downslope)	36-42"	Top of Distribution Pipe or Proprietary Device	-26"	
DEPTHS AT CROSS-SECTION (shown below)		Bottom of Disposal Field	-36"	Reference Elevation is: (0.0") or: ____

DISPOSAL FIELD CROSS-SECTION

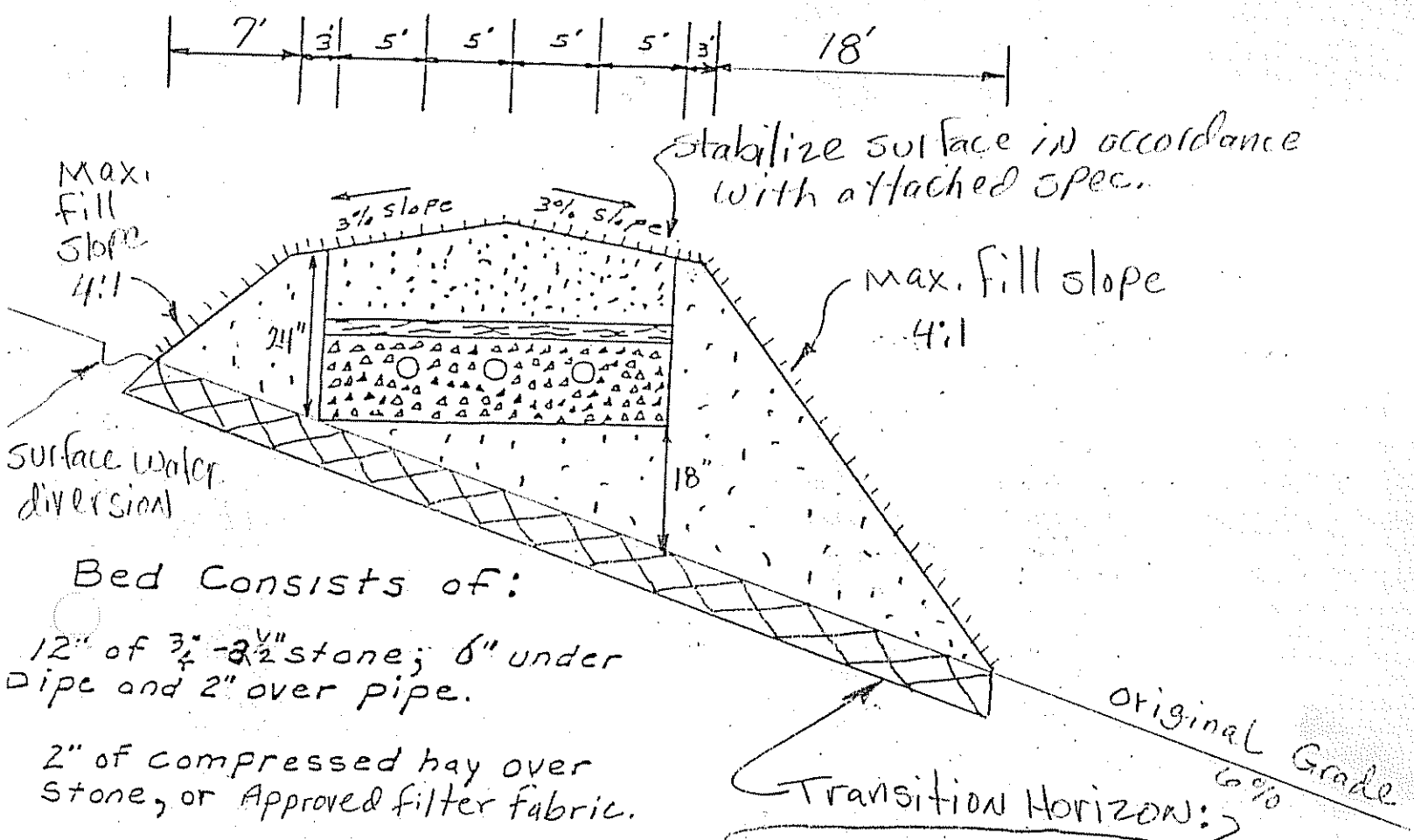
Scales:
Vertical: 1" = ____ ft.
Horizontal: 1" = ____ ft.

SEE CROSS-SECTION SHEET

Site Evaluator Signature	SE #	Date
David E. Rogue	154	10/2/05

Subsurface Absorption Area Cross-Section

(Not to Scale) A-A



Bed Consists of:

12" of ¾"-2½" stone; 6" under pipe and 2" over pipe.

2" of compressed hay over stone, or Approved filter fabric.

8" of gravelly coarse sand fill, over hay/fabric (Minimum).

Top of bed to be stabilized with loam AND SEED.

Transition Horizon:

Remove the organic soil horizon from beneath the Disposal Area and fill extension Area, Mix in 6" Minimum gravelly Coarse Sand fill, then bring to grade with gravelly Coarse sand fill.

Gravelly Coarse Sand Fill Shall Have Approx.:

15%-30% gravel
2%-8% fines
No more than 2% clay

Care should be taken to AVOID compacting the soil under the Leach field and FILL Area. This would eliminate the Natural soil Pores and Severely Limit the soil's Ability to handle the Waste water.

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Dept.Health & Human Services
Division of Health Engineering, 10 SHS
(207) 287-5672 Fax: (207) 287-3165

PROPERTY LOCATION

City, Town, or Plantation	AUGUSTA
Street or Road	Bolton Hill Rd.
Subdivision, Lot #	Western View #1

OWNER/APPLICANT INFORMATION

Name (last, first, MI) — ☒ Owner ☐ Applicant

Mathews, Brenda L.

Mailing Address of Owner/Applicant	130 Bolton Hill Rd. Augusta, Me. 04330
Daytime Tel. #	622-3309

OWNER OR APPLICANT STATEMENT

I state and acknowledge that the information submitted is correct to the best of my knowledge and understand that any falsification is reason for the Department and/or Local Plumbing Inspector to deny a Permit.

Brenda Mathews — Signature of Owner or Applicant — 6/31/06 Date

>> CAUTION: PERMIT REQUIRED - ATTACH IN SPACE BELOW <<

The Subsurface Wastewater Disposal System ***shall not*** be installed until a Permit is attached HERE by the Local Plumbing Inspector. The Permit shall authorize the owner or installer to install the disposal system in accordance with this application and the Maine Subsurface Wastewater Disposal Rules.

Municipal Tax Map # 6 Lot # 58B

CAUTION: INSPECTION REQUIRED

I have inspected the installation authorized above and found it to be in compliance with the Subsurface Wastewater Disposal Rules Application. 8/25/06 (1st) date approved

Local Plumbing Inspector Signature — (2nd) date approved

PERMIT INFORMATION

TYPE OF APPLICATION

☒ 1. First Time System
☐ 2. Replacement System
Type replaced: _____
Year installed: _____
☐ 3. Expanded System
☐ a. Minor Expansion
☐ b. Major Expansion
☐ 4. Experimental System
☐ 5. Seasonal Conversion

THIS APPLICATION REQUIRES

☒ 1. No Rule Variance
☐ 2. First Time System Variance
☐ a. Local Plumbing Inspector Approval
☐ b. State & Local Plumbing Inspector Approval
☐ 3. Replacement System Variance
☐ a. Local Plumbing Inspector Approval
☐ b. State & Local Plumbing Inspector Approval
☐ 4. Minimum Lot Size Variance
☐ 5. Seasonal Conversion Permit

DISPOSAL SYSTEM COMPONENTS

☒ 1. Complete Non-engineered System
☐ 2. Primitive System (graywater & alt. toilet)
☐ 3. Alternative Toilet, specify: _____
☐ 4. Non-engineered Treatment Tank (only)
☐ 5. Holding Tank, _____ gallons
☐ 6. Non-engineered Disposal Field (only)
☐ 7. Separated Laundry System
☐ 8. Complete Engineered System (2000 gpd or more)
☐ 9. Engineered Treatment Tank (only)
☐ 10. Engineered Disposal Field (only)
☐ 11. Pre-treatment, specify: _____
☐ 12. Miscellaneous Components

SIZE OF PROPERTY

141,000 ☒ SQ. FT. ☐ ACRES

SHORELAND ZONING

☐ Yes ☒ No

DISPOSAL SYSTEM TO SERVE

☒ 1. Single Family Dwelling Unit, No. of Bedrooms: 3
☐ 2. Multiple Family Dwelling, No. of Units: _____
☐ 3. Other: _____ (specify)
Current Use ☐ Seasonal ☐ Year Round ☒ Undeveloped

TYPE OF WATER SUPPLY

☒ 1. Drilled Well ☐ 2. Dug Well ☐ 3. Private
☐ 4. Public ☐ 5. Other

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)

TREATMENT TANK

☒ 1. Concrete
☐ a. Regular
☐ b. Low Profile
☐ 2. Plastic
☐ 3. Other: _____
CAPACITY: 1000 GAL.

DISPOSAL FIELD TYPE & SIZE

☐ 1. Stone Bed ☐ 2. Stone Trench
☒ 3. Proprietary Device
☐ a. cluster array ☒ c. Linear
☒ b. regular load ☐ d. H-20 load
☐ 4. Other: _____
SIZE: 1026 ☒ sq. ft. ☐ lin. ft.

GARBAGE DISPOSAL UNIT

☒ 1. No ☐ 2. Yes ☐ 3. Maybe
If Yes or Maybe, specify one below:
☐ a. multi-compartment tank
☐ b. ___ tanks in series
☐ c. increase in tank capacity
☐ d. Filter on Tank Outlet

DESIGN FLOW

310 gallons per day
BASED ON:
☐ 1. Table 501.1 (dwelling unit(s))
☐ 2. Table 501.2 (other facilities)
SHOW CALCULATIONS for other facilites

SOIL DATA & DESIGN CLASS

PROFILE CONDITION DESIGN
3 / C / 1
at Observation Hole # 2
Depth 15"
of Most Limiting Soil Factor

DISPOSAL FIELD SIZING

☐ 1. Small—2.0 sq. ft. / gpd
☐ 2. Medium—2.6 sq. ft. / gpd
☒ 3. Medium—Large 3.3 sq. ft / gpd
☐ 4. Large—4.1 sq. ft. / gpd
☐ 5. Extra Large—5.0 sq. ft. / gpd

EFFLUENT/EJECTOR PUMP

☐ 1. Not Required
☐ 2. May Be Required
☒ 3. Required
Specify only for engineered systems:
DOSE: _____ gallons

☐ 3. Section 503.0 (meter readings)
ATTACH WATER METER DATA

LATITUDE AND LONGITUDE
at center of disposal area
Lat. 44 d 19 m 568 m
Lon. 69 d 41 m 308 m
If g.p.s, state margin of error: _____

SITE EVALUATOR STATEMENT

I certify that on 10/2/05 (date) I completed a site evaluation on this property and state that the data reported are accurate and that the proposed system is in compliance with the State of Maine Subsurface Wastewater Disposal Rules (10-144A CMR 241).

David P. Rocque — Site Evaluator Signature — 154 SE # — 6/20/06 Date

David P. Rocque — Site Evaluator Name Printed — 622-7487 Telephone Number — N/A E-mail Address

Note: Changes to or deviations from the design should be confirmed with the Site Evaluator.

HHE-200 Rev. 4/05

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
Division of Health Engineering
(207) 287-5672 Fax: (207) 287-3165

Town, City, Plantation: AUGUSTA

Street, Road, Subdivision: BOLTON HILL Rd.

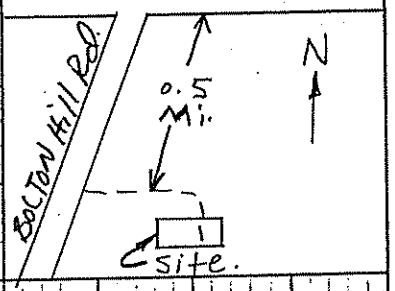
Owner's Name: Brenda Matthews

SITE PLAN Scale 1" = _____ ft. or as shown

SEE ATTACHED

NOTE: DO NOT INSTALL when Soil is Frozen or Saturated.

SITE LOCATION PLAN
(map from Maine Atlas recommended) RT. 3



SOIL DESCRIPTION AND CLASSIFICATION (Location of Observation Holes Shown Above)

Observation Hole TP1 ☒ Test Pit ☐ Boring
½ " Depth of Organic Horizon Above Mineral Soil

Depth Below Mineral Soil Surface (inches)	Texture	Consistency	Color	Mottling
0–10	gravelly fine Sandy Loam	Friable	Dark Brown	NONE
10–20			Dark yellow Brown	observed
20–30		Firm	olive Brown	common Faint
30–40				
40–50				

Soil Classification	Slope	Limiting Factor	
3 Profile / C Condition	6.5 %	18"	☒ Ground Water ☐ Restrictive Layer ☐ Bedrock ☐ Pit Depth

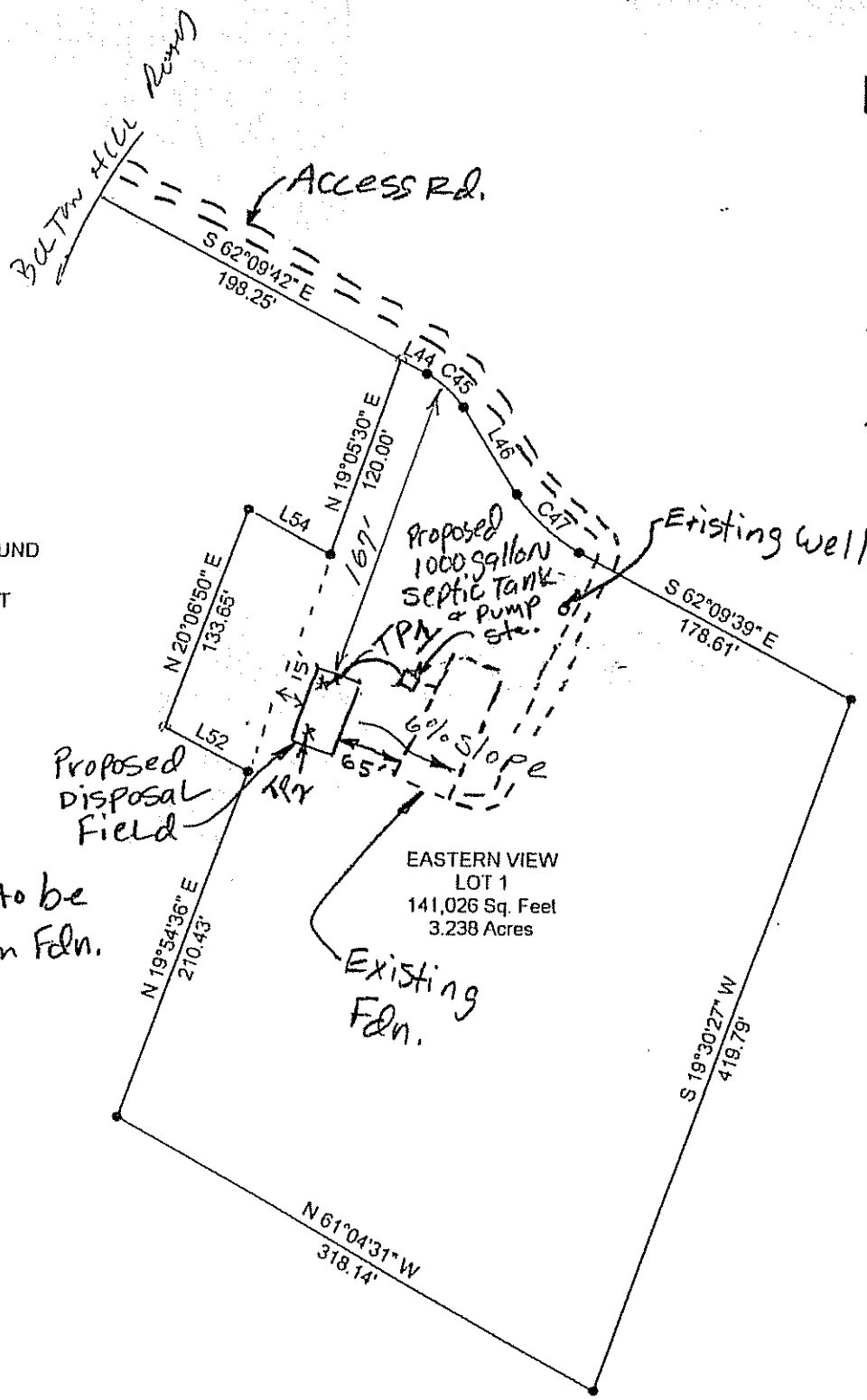
Observation Hole TP2 ☒ Test Pit ☐ Boring
½ " Depth of Organic Horizon Above Mineral Soil

Depth Below Mineral Soil Surface (inches)	Texture	Consistency	Color	Mottling
0–10	gravelly fine Sandy Loam	Friable	Dark Brown	NONE observed
10–20			dark yellow Brown olive Brown	Few Faint
20–30		Firm		
30–40				
40–50				

Soil Classification	Slope	Limiting Factor	
3 Profile / C Condition	6 %	15"	☒ Ground Water ☐ Restrictive Layer ☐ Bedrock ☐ Pit Depth

David P. Rogers — Site Evaluator Signature
154 — SE #
6/20/06 — Date

Brenda Mathews



STEEL PIN FOUND

STEEL PIN SET

Note:
Septic Tank to be min. 8' from Fdn.

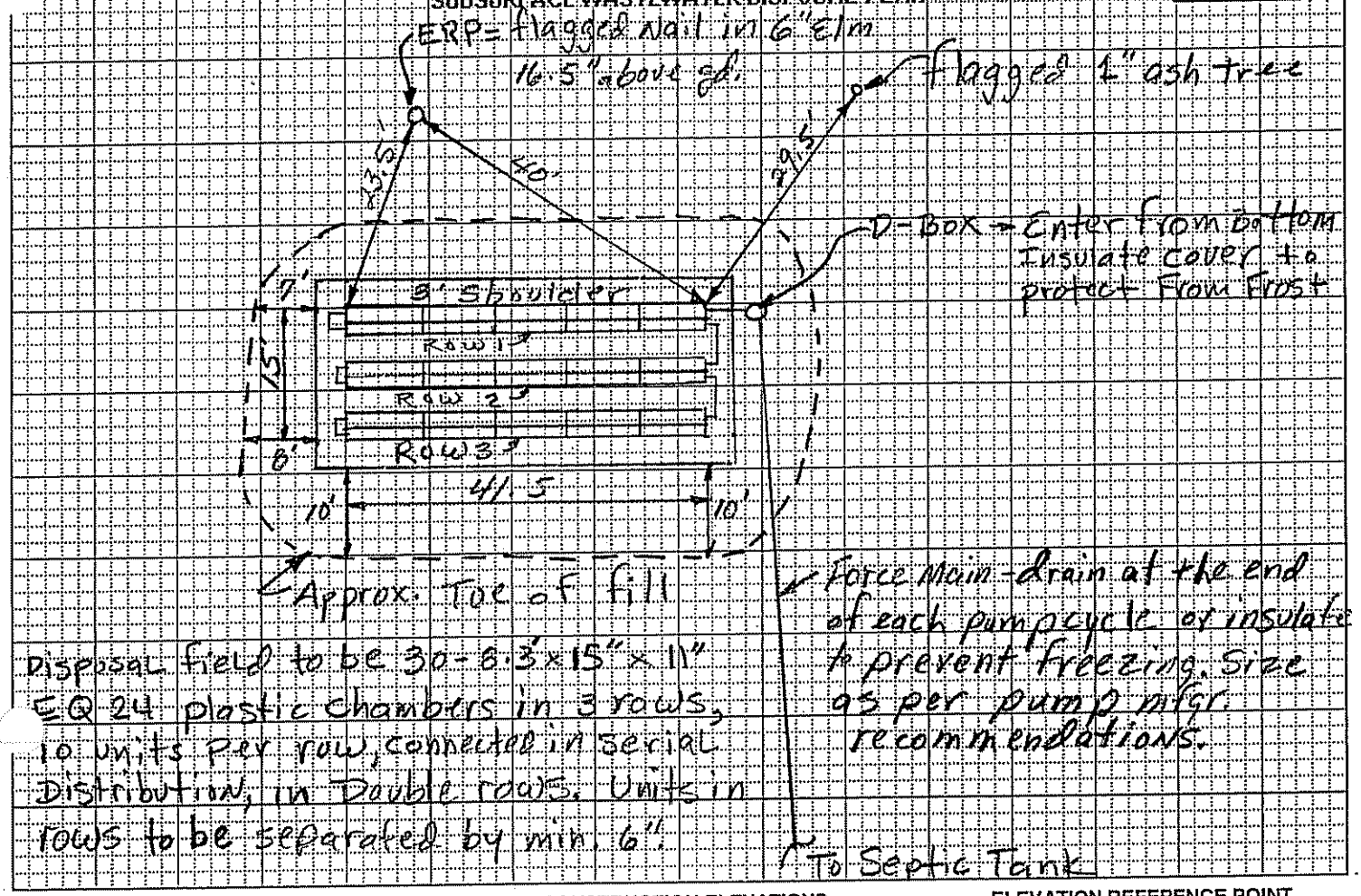
EasternView Lot # 1		
Bolton Hill Road		
Augusta, ME		
DATE: 9/13/2005	SCALE: 1" = 100'	DRAWN BY: cc

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Department of Human Services
Division of Health Engineering, Station 10
(207) 287-5672 FAX (207) 287-3165

Town, City, Plantation	Street, Road, Subdivision	Owner or Applicant Name
AUGUSTA	Bolton Hill Rd.	Brenda Matthews

SUBSURFACE WASTEWATER DISPOSAL PLAN — Scale: 1" = ~20 ft.



Disposal field to be 30-8.3'x15"x11" EQ 24 plastic chambers in 3 rows, 10 units per row, connected in serial distribution, in double rows. Units in rows to be separated by min. 6".

BACKFILL REQUIREMENTS

Depth of Backfill (upslope): 18-23"
Depth of Backfill (downslope): 20"
DEPTHS AT CROSS-SECTION (shown below)

CONSTRUCTION ELEVATIONS

Finished Grade Elevation: See Below"
Top of Distribution Pipe or Proprietary Device: ____"
Bottom of Disposal Field: ____"

ELEVATION REFERENCE POINT

Location & Description: flagged Nail in 6" Elm 16.5" above g.d.
Reference Elevation is: (0.0") or: ____

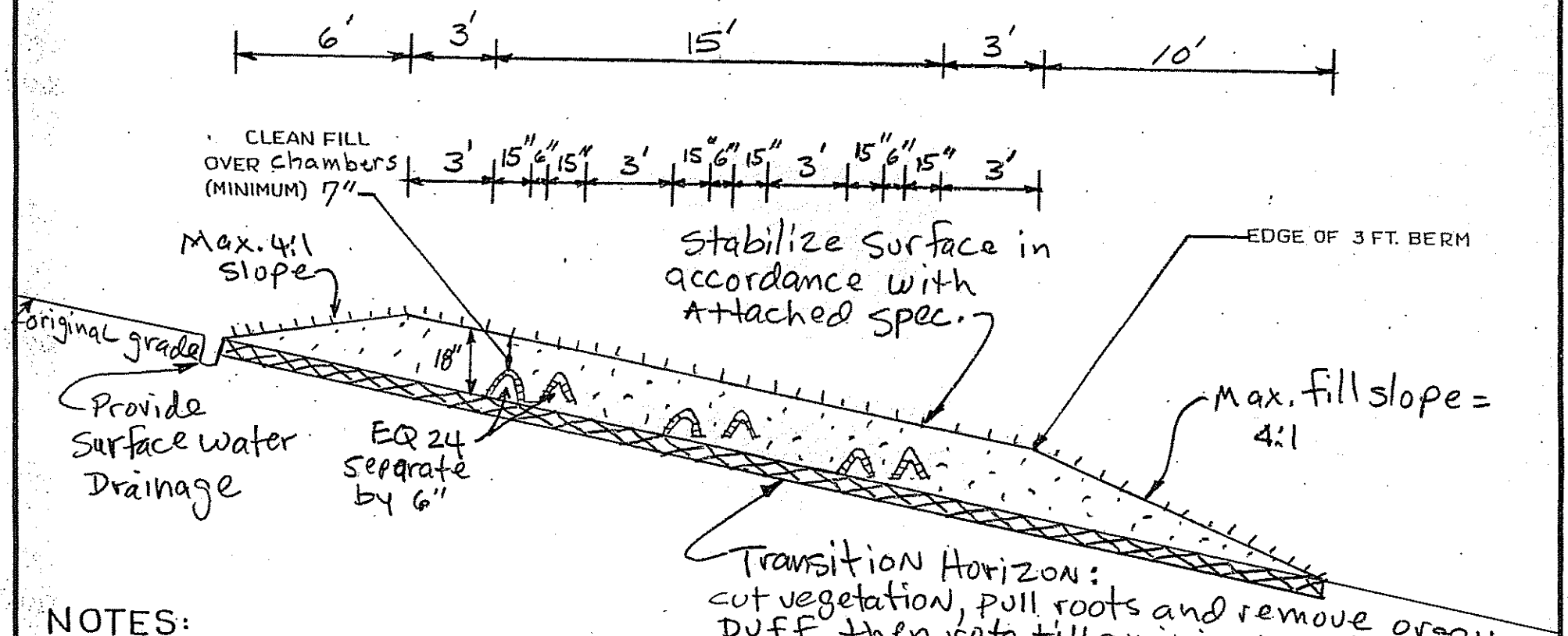
DISPOSAL FIELD CROSS-SECTION

Scales:
Vertical: 1" = ____ ft.
Horizontal: 1" = ____ ft.

Bottom Trench	Top Chambers	Finished Grade	Trench #
-35"	-24"	-17"	1
-40"	-29"	-22"	2
-45"	-34"	-27"	3

David P. Rogue — Site Evaluator Signature
154 — SE #
6/20/06 — Date

PLASTIC CHAMBER CROSS-SECTION 6%



NOTES:

1. REMOVE VEGETATION AND SCARIFY ORIGINAL SOIL UNDER chambers AND FILL EXTENSION AREAS.
2. BOTTOM OF chambers TO BE LEVEL WITH A MAXIMUM GRADE TOLERANCE OF 1" PER 100'.
3. PROVIDE FOR SURFACE DRAINAGE AWAY FROM chambers AREA.
4. FINISHED GRADE SHALL BE SEEDED AND MULCHED TO PREVENT EROSION.

ORIGINAL GRADE 6%

FILL UNDER chambers TO BE gravelly Coarse Sand TEXTURE.

FILL AROUND chambers TO BE gravelly Coarse Sand TEXTURE.

Gravelly Coarse Sand: Max 4% fine sand or silt & 15%-30% gravel

SITE EVALUATOR: David P. Rocque

OWNER: Brenda Matthews

LOCATION: Augusta Bolton Hill Rd.

DATE: 6/20/06

SCALE: 1 INCH = 5 FEET

NUMBER OF chambers: 30

PERCENT SLOPE: 6%

ELEVATIONS:

REFERENCE PT. 0" BOTTOM TRENCH #1 -35"

BOTTOM TRENCH #2 -40" BOTTOM TRENCH #3 -45"