



Replacement System Variance Request

VARIANCE CATEGORY	LIMIT OF LPI'S APPROVAL AUTHORITY						VARIANCE REQUESTED TO:	
SOILS								
Soil Profile	Ground Water Table			to 7"			Inches	
Soil Condition	Restrictive Layer			to 7"			Inches	
from HHE-200	Bedrock			to 12"			Inches	
SETBACK DISTANCES (in feet)	Disposal Fields (total design flow)			Septic Tanks (total design flow)			Disposal Fields	Septic Tanks
from	Less than 1000 gpd	1000 to 2000 gpd	Over 2000 gpd	Less than 1000 gpd	1000 to 2000 gpd	Over 2000 gpd	To	To
Wells with water usage of 2000 or more gpd or public water supply wells	300 ft	300 ft	300 ft	100 ft	100 ft	100 ft		
Owner's wells	100 down to 60 ft[a]	200 down to 100 ft	300 down to 150 ft	100 down to 50 ft[b]	100 down to 50 ft	100 down to 50 ft	60'	50'
Neighbor's wells	100 down to 60 ft [f]	200 down to 120 ft [f]	300 down to 180 ft [f]	100 down to 50 ft [f]	100 down to 75 ft [f]	100 down to 75 ft [f]		
Water supply line	10 ft [h]	20 ft [h]	25 ft [h]	10 ft [h]	10 ft [h]	10 ft [h]		
Water course, major - for replacements only, see Table 400.4 for major expansions	100 down to 60 ft[d]	200 down to 120 ft[d]	100 down to 180 ft[d]	100 down to 50 ft[b]	100 down to 50 ft	100 down to 50 ft		
Water course, minor	50 down to 25 ft [e]	100 down to 50 ft [e]	150 down to 75 ft [e]	50 down to 25 ft [e]	50 down to 25 ft [e]	50 down to 25 ft [e]		
Drainage ditches	25 down to 12 ft	50 down to 25 ft	75 down to 35 ft	25 down to 12 ft	25 down to 12 ft	25 down to 12 ft		
Edge of fill extension -- Coastal wetlands, special freshwater wetlands, great ponds, rivers, streams	25 ft [e]	25 ft [e]	25 ft [e]	25 ft [e]	25 ft [e]	25 ft [e]		
Slopes greater than 3:1	10 ft [g]	18 ft [g]	25 ft [g]	N/A	N/A	N/A		
No full basement (e.g. slab, frost wall, columns)	15 down to 7 ft	30 down to 15 ft	40 down to 20 ft	8 down to 5 ft	14 down to 7 ft	20 down to 10 ft		
Full basement (below grade foundation)	20 down to 10 ft	30 down to 15 ft	40 down to 20 ft	8 down to 5 ft	14 down to 7 ft	20 down to 10 ft		
Property lines	10 down to 5 ft[c]	18 down to 9 ft[c]	20 down to 10 ft[c]	10 down to 4 ft[c]	15 down to 7 ft[c]	20 down to 10 ft[c]		
Burial sites or graveyards, measured from the downhill toe of the fill extension	25 ft	25 ft	25 ft	25 ft	25 ft	25 ft		

OTHER

1. Fill extension Grade - to 3:1

2. ONE-PIECE SEPTIC TANK TO BE USED

3.

- Footnotes: [a] Single-family well setbacks may be reduced as prescribed in Section 701.2  
 [b] This distance may be reduced to 25 feet, if the septic tank or holding tank is tested in the plumbing inspector's presence and shown to be watertight or of monolithic construction.  
 [c] Additional setbacks may be needed to prevent fill material extensions from encroaching on abutting property.  
 [d] Additional setbacks may be required by local Shoreland zoning.  
 [e] Natural Resources Protection Act requires a 25 foot setback on slopes of less than 20%, from the edge of soil disturbance and 100 feet on slopes greater than 20%. See Chapter 15.  
 [f] May not be any closer to neighbor's well than the existing disposal field or septic tank unless written permission is granted by the neighbor. This setback may be reduced for single family houses with Department approval. See Section 702.3.  
 [g] The fill extension shall reach the existing ground before the 3:1 slope or within 100 feet of the disposal field.  
 [h] See Section 1402.10 for special procedures when these minimum setbacks cannot be achieved.

WILLIAM P BROWN *William P Brown*  
 SITE EVALUATOR'S SIGNATURE

11/5/2005  
 DATE

FOR USE BY THE DEPARTMENT ONLY

The Department has reviewed the variance(s) and ( )does ( )does not give its approval. Any additional requirements, recommendations, or reasons for the Variance denial, are given in the attached letter.

\_\_\_\_\_  
 SIGNATURE OF THE DEPARTMENT

\_\_\_\_\_  
 DATE

# SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

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

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

<b>PROPERTY LOCATION</b>		AUGUSTA PERMIT # 5688 TOWN COPY Date Permit Issued: <u>11/15/05</u> \$ <u>120.00</u> FEE Charged <input type="checkbox"/> Double Fee Local Plumbing Inspector Signature: <u>[Signature]</u> L.P.I. # <u>850</u>
City, Town, Plantation	AUGUSTA	
Street or Road	WEST RIVER ROAD	
Subdivision, Lot #		
<b>OWNER/APPLICANT INFORMATION</b>		
Name (last, first, MI)	DOERR, JANET	<input checked="" type="checkbox"/> Owner <input type="checkbox"/> Applicant
Mailing Address of Owner/Applicant	644 WEST RIVER ROAD AUGUSTA, ME 04330	
Daytime Tel. #	622-2120	Municipal Tax Map # <u>2</u> Lot # <u>42</u>

<b>OWNER OR APPLICANT STATEMENT</b>	<b>CAUTION: INSPECTION REQUIRED</b>
I state 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.	I have inspected the installation authorized above and found it to be in compliance with the Subsurface Wastewater Disposal Rules Application
Signature of Owner/Applicant: <u>[Signature]</u> Date: <u>11/15/05</u>	Local Plumbing Inspector Signature: <u>[Signature]</u> (1st) Date Approved: <u>11/15/05</u> (2nd) Date Approved: _____

<b>PERMIT INFORMATION</b>	
<b>TYPE OF APPLICATION</b>	<b>THIS APPLICATION REQUIRES</b>
<input type="checkbox"/> 1. First Time System <input checked="" type="checkbox"/> 2. Replacement System Type replaced _____ Year installed _____ <input type="checkbox"/> 3. Expanded System <input type="checkbox"/> a. Minor Expansion <input type="checkbox"/> b. Major Expansion <input type="checkbox"/> 4. Experimental System <input type="checkbox"/> 5. Seasonal Conversion	<input type="checkbox"/> 1. No Rule Variance <input type="checkbox"/> 2. First Time System Variance <input type="checkbox"/> a. Local Plumbing Inspector approval <input type="checkbox"/> b. State & Local Plumbing Inspector approval <input checked="" type="checkbox"/> 3. Replacement System Variance <input checked="" type="checkbox"/> a. Local Plumbing Inspector approval <input type="checkbox"/> b. State & Local Plumbing Inspector approval <input type="checkbox"/> 4. Minimum Lot Size Variance <input type="checkbox"/> 5. Seasonal Conversion Permit
<b>SIZE OF PROPERTY</b>	<b>DISPOSAL SYSTEM TO SERVE:</b>
12 <input type="checkbox"/> sq. ft. <input checked="" type="checkbox"/> acres	<input checked="" type="checkbox"/> 1. Single Family Dwelling Unit, No. of Bedrooms: <u>3</u> <input type="checkbox"/> 2. Multiple Family Dwelling Unit, No. of Units: _____ <input type="checkbox"/> 3. Other _____ (specify) Current Use <input type="checkbox"/> Seasonal <input checked="" type="checkbox"/> Year Round <input type="checkbox"/> Undeveloped
<b>SHORELAND ZONING</b>	<b>DISPOSAL SYSTEM COMPONENTS</b>
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> 1. Complete Non-engineered System <input type="checkbox"/> 2. Primitive System (graywater & alt. toilet) <input type="checkbox"/> 3. Alternative Toilet, specify _____ <input type="checkbox"/> 4. Non-Engineered Treatment Tank (only) <input type="checkbox"/> 5. Holding Tank, _____ gallons <input type="checkbox"/> 6. Non-engineered Disposal Field (only) <input type="checkbox"/> 7. Separated Laundry System <input type="checkbox"/> 8. Complete Engineered System (2000 gpd or more) <input type="checkbox"/> 9. Engineered Treatment Tank (only) <input type="checkbox"/> 10. Engineered Disposal Field (only) <input type="checkbox"/> 11. Pretreatment, specify: _____ <input type="checkbox"/> 12. Miscellaneous Components
	<b>TYPE OF WATER SUPPLY</b>
	<input checked="" type="checkbox"/> 1. Drilled Well <input type="checkbox"/> 2. Dug Well <input type="checkbox"/> 3. Private <input type="checkbox"/> 4. Public <input type="checkbox"/> 5. Other

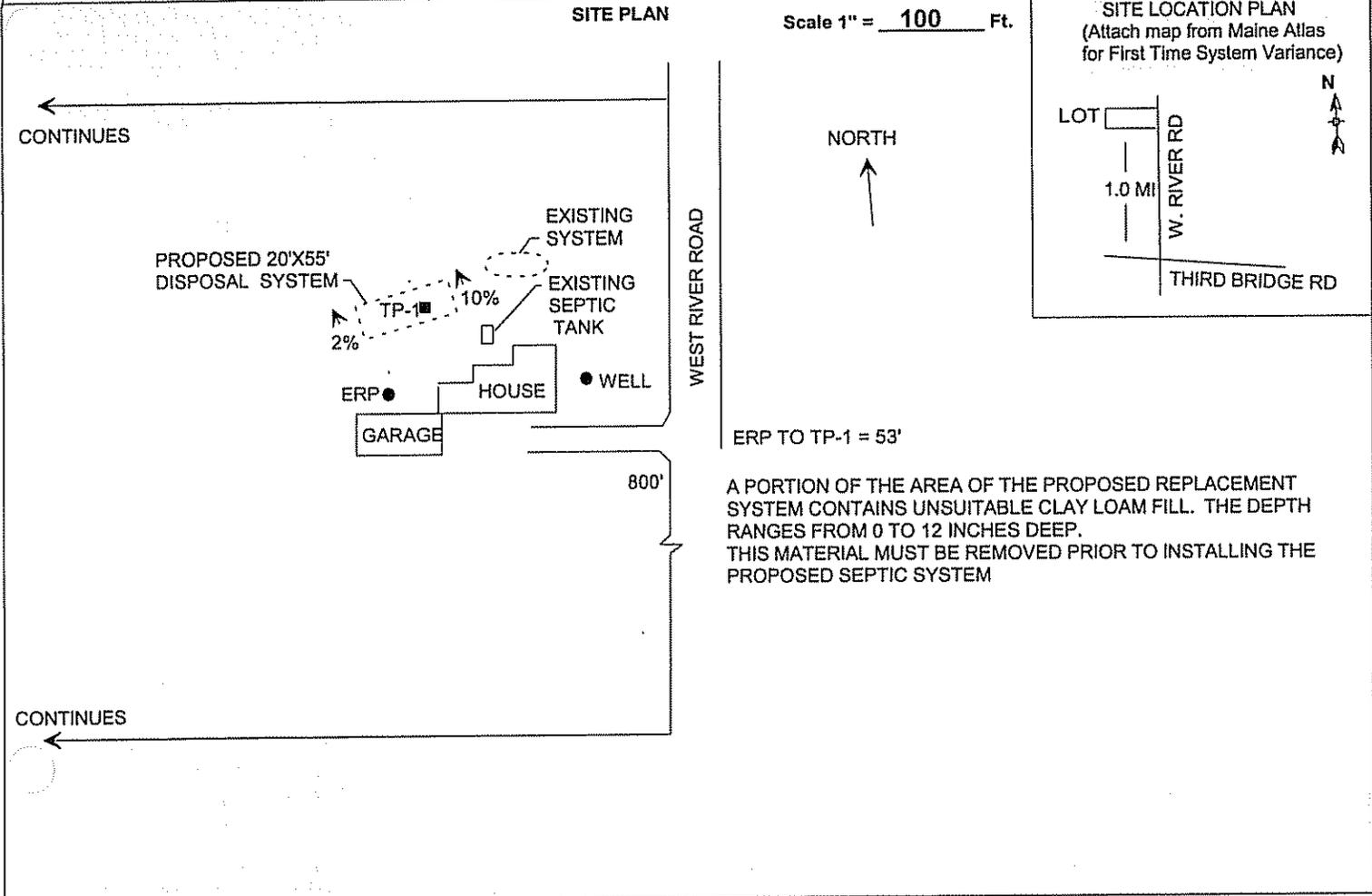
<b>DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)</b>			
<b>TREATMENT TANK</b>	<b>DISPOSAL FIELD TYPE &amp; SIZE</b>	<b>GARBAGE DISPOSAL UNIT</b>	<b>DESIGN FLOW</b>
<input checked="" type="checkbox"/> 1. Concrete <input checked="" type="checkbox"/> a. Regular <input type="checkbox"/> b. Low Profile (IF NEEDED) <input type="checkbox"/> 2. Plastic <input type="checkbox"/> 3. Other _____ CAPACITY <u>1000</u> GAL.	<input checked="" type="checkbox"/> 1. Stone Bed <input type="checkbox"/> 2. Stone Trench <input type="checkbox"/> 3. Proprietary Device <input type="checkbox"/> a. cluster array <input type="checkbox"/> c. Linear <input type="checkbox"/> b. regular load <input type="checkbox"/> d. H-20 load <input type="checkbox"/> 4. Other _____ SIZE <u>1100</u> <input checked="" type="checkbox"/> sq. ft. <input type="checkbox"/> lln. ft.	1. <input checked="" type="checkbox"/> No 3. <input type="checkbox"/> Maybe 2. <input type="checkbox"/> Yes >> Specify one below: <input type="checkbox"/> a. multi-compartment tank <input type="checkbox"/> b. _____ tanks in series <input type="checkbox"/> c. increase in tank capacity <input type="checkbox"/> d. Filter on Tank Outlet	<u>270</u> gallons per day BASED ON: <input checked="" type="checkbox"/> 1. Table 501.1 (dwelling unit(s)) <input type="checkbox"/> 2. Table 501.2 (other facilities) SHOW CALCULATIONS -for other facilities-
<b>SOIL DATA &amp; DESIGN CLASS</b>	<b>DISPOSAL FIELD SIZING</b>	<b>EFFLUENT/EJECTOR PUMP</b>	
PROFILE CONDITION DESIGN <u>8 / D / 3</u> at Observation Hole # <u>TP-1</u> Depth <u>12</u> " of Most Limiting Soil Factor	1. <input type="checkbox"/> Small - 2.0 sq. ft./gpd 2. <input type="checkbox"/> Medium - 2.6 sq. ft./gpd 3. <input type="checkbox"/> Medium-Large - 3.3 sq. ft./gpd 4. <input checked="" type="checkbox"/> Large - 4.1 sq. ft./gpd 5. <input type="checkbox"/> Extra-Large - 5.0 sq. ft./gpd	1. <input checked="" type="checkbox"/> Not Required 2. <input type="checkbox"/> May Be Required 3. <input type="checkbox"/> Required >> Specify only for engineered or experimental systems DOSE _____ gallons	<input type="checkbox"/> 3. Section 503.0 (meter readings) ATTACH WATER METER DATA

<b>SITE EVALUATOR'S STATEMENT</b>		
I certify that on <u>11/4/05</u> (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).		
Site Evaluator Signature: <u>[Signature]</u> WILLIAM P BROWN Site Evaluator Name Printed	188 SE# 293-2110 Telephone Number	11/5/2005 Date _____ E-mail Address

# SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Department of Human Services  
 Division of Health Engineering, Station 10  
 (207) 287-5672 FAX 207 287-4165

Town, City, Plantation: **AUGUSTA** Street, Road, Subdivision: **WEST RIVER ROAD** Owner or Applicant Name: **JANET DOERR**



SOIL PROFILE DESCRIPTION AND CLASSIFICATION				(Location of Observation Holes Shown Above)			
Observation Hole # <b>TP-1</b> <input checked="" type="checkbox"/> Test Pit <input type="checkbox"/> Boring				Observation Hole # <input type="checkbox"/> Test Pit <input type="checkbox"/> Boring			
0" Depth of organic horizon above mineral soil				" Depth of organic horizon above mineral soil			
Texture	Consistency	Color	Mottling	Texture	Consistency	Color	Mottling
CLAY LOAM FILL	FIRM	MEDIUM BROWN	NONE				
LOAM	FRIABLE	↓	↓				
SILT LOAM	↓	YELLOW BRN	↓				
LOAM	↓	OLIVE BROWN	COMMON				
	FIRM						
Soil Profile	Classification Condition	Slope Percent	Limiting Factor Depth	Soil Profile	Classification Condition	Slope Percent	Limiting Factor Depth
8	D	2-10%	12"				
<input checked="" type="checkbox"/> Groundwater <input type="checkbox"/> Restrictive Layer <input type="checkbox"/> Bedrock				<input type="checkbox"/> Groundwater <input type="checkbox"/> Restrictive Layer <input type="checkbox"/> Bedrock			

# SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Department of Human Services  
Division of Health Engineering, Station 10

Town, City, Plantation

**AUGUSTA**

Street, Road, Subdivision

**644 WEST RIVER ROAD**

Owner or Applicant Name

**JANET DOERR**

## SUBSURFACE WASTEWATER DISPOSAL PLAN

Scale 1" = 20' Ft.

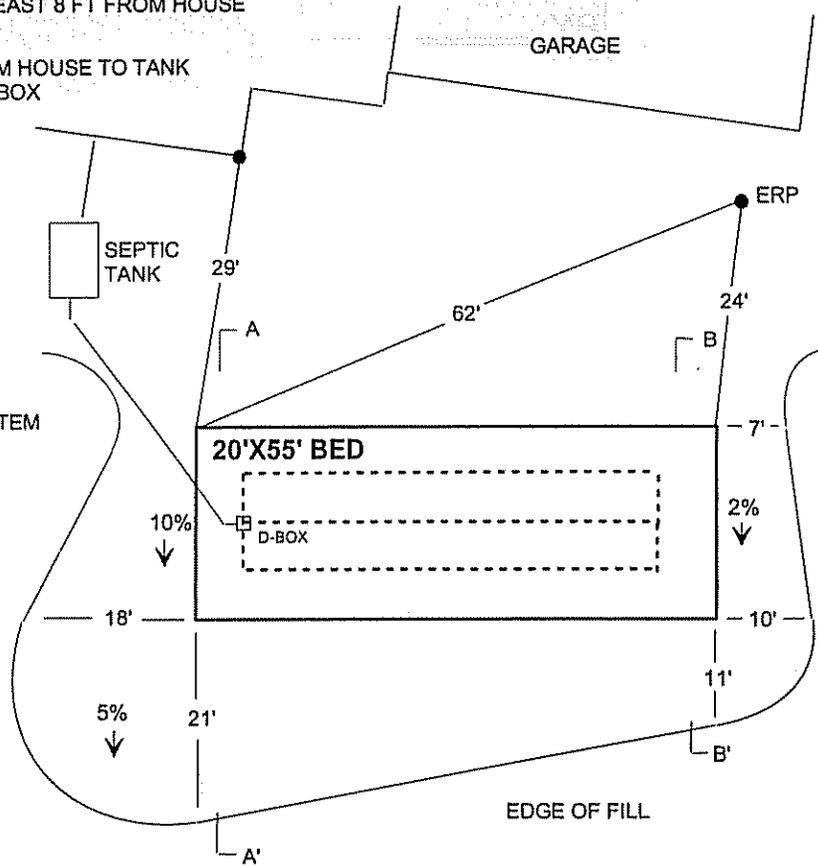
- PUMP OUT AND REMOVE OR BACKFILL EXISTING TANK.
- SET NEW 1000 GALLON TANK AT LEAST 8 FT FROM HOUSE
- USE A ONE-PIECE SEPTIC TANK
- USE 4 INCH SCHEDULE 40 PVC FROM HOUSE TO TANK
- USE SDR 35 PIPE FROM TANK TO D-BOX
- USE D-BOX OR 4 WAY TEE

SLOPE FINISH GRADE ALL ONE-WAY, WHERE POSSIBLE

DIVERT ROOF LEADERS FROM SYSTEM

REMOVE UP TO 12 INCHES OF UNSUITABLE CLAY LOAM FILL FOUND IN A PORTION OF THE DISPOSAL SYSTEM AND FILL EXTENSION AREA

50 FT FROM WELL TO TANK  
60 FT FROM WELL TO SYSTEM



### BACKFILL REQUIREMENTS

Depth of Fill (Upslope)	<b>20-22"</b>
Depth of Fill (Downslope)	<b>25-46"</b>
DEPTHS AT CROSS-SECTION (shown below)	

### CONSTRUCTION ELEVATIONS

Finished Grade Elevation	<b>VARIES</b>
Top of Distribution Pipe or Proprietary device	<b>-39"</b>
Bottom of Disposal Area	<b>-50"</b>

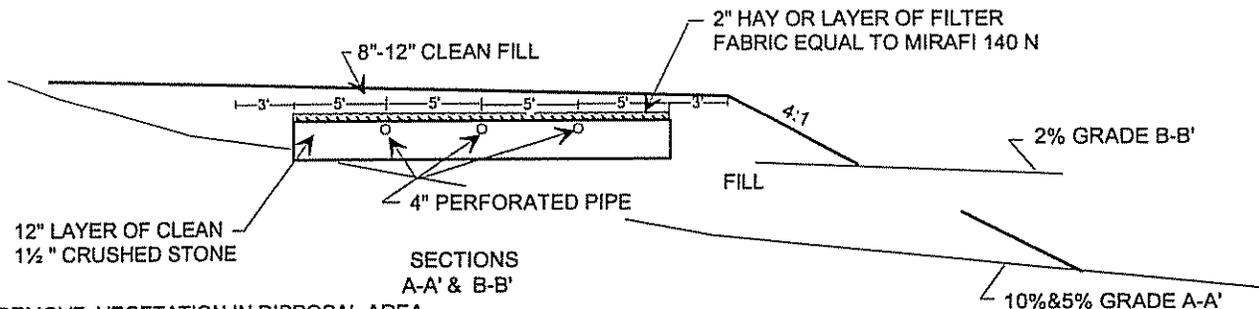
### ELEVATION REFERENCE POINT

Location and Description:  
**FLAGGED NAIL IN 20 INCH MAPLE TREE, 1 FOOT ABOVE GROUND**  
Reference Elevation is: **00.0"**

### DISPOSAL AREA CROSS SECTION

Scale:

Vertical: 1 Inch = 5 Ft.  
Horizontal: 1 Inch = 10 Ft.



- REMOVE VEGETATION IN DISPOSAL AREA
- REMOVE UP TO 12 INCHES OF UNSUITABLE CLAY LOAM FILL
- SCARIFY ENTIRE FILL AREA
- MIX 4 INCHES OF FILL MATERIAL THOROUGHLY WITH EXISTING SOIL TO FORM TRANSITION ZONE (ACCORDING TO CHAPTER 8, PLUMBING CODE)
- ALL FILL SHALL BE GRAVELLY COARSE SAND
- CROWN FINISH GRADE FROM CENTER AT 3% OR,
- SLOPE ALL ONE-WAY
- LOAM, SEED, MULCH DISTURBED AREAS

**WILLIAM P BROWN**

Site Evaluator Signature

*William P Brown*

188

SE #

11/5/2005

Date