1	70775
-	Control No.
	990.00
_	Fee

PERMIT NO.	04-25	

DEPARTMENT OF ENVIRONMENTAL QUALITY Fee Tee	Control No.	STATE OF OREGON PERMIT NO. 04-25
Permit Issued To Olstedt Construction	990.00 DEPA	RTMENT OF ENVIRONMENTAL QUALITY
Permit issued To Olstedt Construction 7N (Township) (Range) (R	P	
Permit issued To Olstedt Construction 7N (Township) (Range) (R		
Property Owner's Name Property Owner's Name Property Owner's Name Property Owner's Name Property Owner S Name Property Owner Owner S Name Property Owner O	X New Construction	Repair Other
Property Owner's Name Property Owner's Name Property Owner's Name Property Owner's Name Property Owner S Name Property Owner Owner S Name Property Owner O	- Olstedt Construct	ion 7N 10W 34C 1811 Clatson
Sandy Ridge Lane Seaside Glave Glave Seaside Glave Seaside Glave Gla		
PERMITS ARE NOT TRANSFERABLE	Sandy Ridge Lane Sea	side GE D CD 11 (1. 0) ST 2-23-04
PERMITS ARE NOT TRANSFERABLE ALL WORK TO CONFORM TO OREGON ADMINISTRATIVE RULES, CHAPTER 340. WORK SHALL BE DONE BY PROPERTY OWNER OR BY LICENSED SEWAGE DISPOSAL SERVICE. (MAKE NO CHANGES IN LOCATION OR SPECIFICATIONS WITHOUT WRITTEN APPROVAL) SPECIFICATIONS Alternative-Bottomless EXPIRATION DATE February 23, 2005 TYPE OF SYSTEM Sand Filter Will amette Graystone 2 compartment Design Sewage Flow 450 Gallons/Day With risers Tank Volume 1500 Gallons Disposal Trenches Seepage Bed(s) 360 Square Feet Maximum Depth 33 inches. Minimum Depth - inches. Passed Filter Maximum Depth 33 inches. Minimum Depth - inches. Above Pipe - inches. Rake Sidewall Special Conditions (Follow Attached Plot Plan) Install in accordance with plans & specifications studies and the subject of a subject of subject of a subject of	THE PERSON OF TH	Church, /chanas
ALL WORK TO CONFORM TO OREGON ADMINISTRATIVE RULES, CHAPTER 340. WORK SHALL BE DONE BY PROPERTY OWNER OR BY LICENSED SEWAGE DISPOSAL SERVICE. (MAKE NO CHANGES IN LOCATION OR SPECIFICATIONS WITHOUT WRITTEN APPROVAL) SPECIFICATIONS Alternative—Bottomless EXPIRATION DATE February 23, 2005 TYPE OF SYSTEM Sand Filter Will amette Graystone 2 compartment With risers Tank Volume 1500. Gallons Disposal Trenches Seepage Bed(s) 360 Square, Feqt Sand Filter Waximum Depth 33 inches. Minimum Depth - inches. Seepage Bed(s) Sand Filter Waximum Depth - inches. Below Fipe - inches. Above Fipe - inches. Rake Sidewall Special Conditions (Follow Attached Plot Plan) Install in accordance with plans & specifications submitted 2 -9-04 & 2-20-04 . As-built with all notations on approved plans addressed & certification of final construction by installer along with copy of electrical permit required prior to pre-cover inspection request. PRE-COVER INSPECTION REQUIRED — CONTACT NCRO (503) 861-3280 CERTIFICATE OF SATISFACTORY COMPLETION As-Built Drawing with Reference Locations Installer Hartman Construction As-built & certification of final construction received 6-15-04. Electrical permit received 6-17-04. System components installed/constructed as per approved as-built. Pump & alarm tests ok. OK to cover system. Issued by Operation of Law	(Sity)	(Issued by - Signature (Date Issued)
ALL WORK TO CONFORM TO OREGON ADMINISTRATIVE RULES, CHAPTER 340. WORK SHALL BE DONE BY PROPERTY OWNER OR BY LICENSED SEWAGE DISPOSAL SERVICE. (MAKE NO CHANGES IN LOCATION OR SPECIFICATIONS WITHOUT WRITTEN APPROVAL) SPECIFICATIONS Alternative—Bottomless EXPIRATION DATE February 23, 2005 TYPE OF SYSTEM Sand Filter Will amette Graystone 2 compartment With risers Tank Volume 1500. Gallons Disposal Trenches Seepage Bed(s) 360 Square, Feqt Sand Filter Waximum Depth 33 inches. Minimum Depth - inches. Seepage Bed(s) Sand Filter Waximum Depth - inches. Below Fipe - inches. Above Fipe - inches. Rake Sidewall Special Conditions (Follow Attached Plot Plan) Install in accordance with plans & specifications submitted 2 -9-04 & 2-20-04 . As-built with all notations on approved plans addressed & certification of final construction by installer along with copy of electrical permit required prior to pre-cover inspection request. PRE-COVER INSPECTION REQUIRED — CONTACT NCRO (503) 861-3280 CERTIFICATE OF SATISFACTORY COMPLETION As-Built Drawing with Reference Locations Installer Hartman Construction As-built & certification of final construction received 6-15-04. Electrical permit received 6-17-04. System components installed/constructed as per approved as-built. Pump & alarm tests ok. OK to cover system. Issued by Operation of Law		PERMITS ARE NOT TRANSFERABLE
SHALL BE DONE BY PROPERTY OWNER OR BY LICENSED SEWAGE DISPOSAL SERVICE. (MAKE NO CHANGES IN LOCATION OR SPECIFICATIONS WITHOUT WRITTEN APPROVAL) SPECIFICATIONS Alternative—Bottomless EXPIRATION DATE February 23, 2005 TYPE OF SYSTEM Sand Filter Willamette Graystone 2 compartment With risers Tank Volume		
MAKE NO CHANGES IN LOCATION OR SPECIFICATIONS WITHOUT WRITTEN APPROVAL) SPECIFICATIONS Alternative-Bottomless		
EXPIRATION DATE February 23, 2005 TYPE OF SYSTEM Sand Filter Willamette Graystone 2 compartment Design Sewage Flow 450 Gallons/Day 360 Square Feet Filter Sand		
Willamette Graystone 2 compartment Willamette Graystone 2 compartment With risers Tank Volume	•	
Willamette Graystone 2 compartment Willamette Graystone 2 compartment With risers Tank Volume 15.00 Gallons Disposal Trenches Seepage Bed(s) 360 Sand Filter Maximum Depth 33 inches. Minimum Depth - inches. Seepage Bed(s) Sand Filter Sand Filter Maximum Depth 33 inches. Minimum Depth - inches. Seepage Bed(s) Sand Filter Fresurized IX Minimum Distance Between Trenches - Linear Feet Equal Loop Serial Pressurized IX Minimum Distance Between Trenches - Linear Feet Equal Loop Serial Pressurized IX Minimum Distance Between Trenches - Linear Feet Equal Loop Serial Pressurized IX Minimum Distance Between Trenches - Linear Feet Equal Loop Serial Pressurized IX Minimum Distance Between Trenches - Linear Feet Equal Loop Serial Pressurized IX Minimum Distance Between Trenches - Linear Feet Equal Loop Serial Pressurized IX Minimum Distance Between Trenches - Linear Feet Equal Loop Serial Pressurized IX Minimum Distance Between Trenches - Linear Feet Equal Loop Serial Pressurized IX Minimum Distance Between Trenches - Linear Feet Equal Loop Serial Pressurized IX Minimum Distance Between Trenches - Linear Feet Equal Loop Serial Pressurized IX Minimum Distance Between Trenches - Linear Feet Equal Loop Serial Pressurized IX Minimum Distance Between Trenches - Linear Feet Equal Loop Serial Pressurized IX Minimum Distance Between Trenches - Linear Feet Equal Loop Serial Pressurized IX Minimum Distance Between Trenches - Linear Feet Equal Loop Serial Pressurized IX Minimum Distance Between Trenches - Linear Feet Equal Loop Serial Pressurized IX Minimum Distance Between Trenches - Linear Feet Equal Loop Serial Pressurized IX Minimum Distance Between Trenches - Linear Feet Equal Loop Serial Discussion Linear Feet Linear F	EVERATION DATE February 2	
Sepage Bed(s) 360 Square Feet Sand Filter Sand F	EXPIRATION DATE	TIPE OF SISIEM Dana Tiller
Sepage Bed(s) 360 Square Feet Sand Filter Sand F	Willamette Gravstone 2 com	partment Design Sewage Flow 450 Gallons/Day
Maximum Depth 33 inches. Minimum Depth - inches. Linear Feet	With risers	360
Equal	27	Seepage Bed(s) Sand Filter
Special Conditions (Follow Attached Plot Plan) Special Conditions (Follow Attached Plot Plan) Submitted 2-9-04 & 2-20-04. As-built with all notations on approved plans submitted 2-9-04 & 2-20-04. As-built with all notations on approved plans addressed & certification of final construction by installer along with Copy of electrical permit required prior to pre-cover inspection request. PRE-COVER INSPECTION REQUIRED — CONTACT NCBO — (503) 861-3280 CERTIFICATE OF SATISFACTORY COMPLETION As-Built Drawing with Reference Locations Installer Hartman Construction As-built & certification of final construction received 6-15-04. Electrical permit received 6-17-04. System components installed/constructed as per approved as-built. Pump & alarm tests ok. OK to cover system. This Certificate of Satisfactory Completion is valid for a period, rules for Authorization Notices of Authorization Notices or Attention. Permits apply, which includes paying a fee,	Maximum Depth 33 inches.	Minimum Depth inches Linear Feet
Special Conditions (Follow Attached Plot Plan) Special Conditions (Follow Attached Plot Plan) Submitted 2-9-04 & 2-20-04. As-built with all notations on approved plans submitted 2-9-04 & 2-20-04. As-built with all notations on approved plans addressed & certification of final construction by installer along with Copy of electrical permit required prior to pre-cover inspection request. PRE-COVER INSPECTION REQUIRED — CONTACT NCBO — (503) 861-3280 CERTIFICATE OF SATISFACTORY COMPLETION As-Built Drawing with Reference Locations Installer Hartman Construction As-built & certification of final construction received 6-15-04. Electrical permit received 6-17-04. System components installed/constructed as per approved as-built. Pump & alarm tests ok. OK to cover system to the facility for which li was constructed. After the 5 year period, rules for Authorization Notibes or Atteration: Permits apply, which includes paying a fee,	Equal □ Loop □ Serial □	Pressurized X Minimum Distance Between Trenches
Special Conditions (Follow Attached Plot Plan) Submitted 2-9-04 & 2-20-04. As-built with all notations on approved plans addressed & certification of final construction by installer along with copy of electrical permit required prior to pre-cover inspection request. PRE-COVER INSPECTION REQUIRED — CONTACT NCBO == (503) 861-3280 CERTIFICATE OF SATISFACTORY COMPLETION As-Built Drawing with Reference Locations Installer Hartman Construction received 6-15-04. Final Insp. Date 6-16-04 System components installed/constructed as per approved as-built. Pump & alarm tests ok. OK to cover system. Pre-cover inspection waived pursuant to OAR 340, Division 71 It was constructed. After the 5 year period, rules for Authorization Notleds or Alteration. Permits apply, which includes paying a tee,		
CERTIFICATE OF SATISFACTORY COMPLETION As-Built Drawing with Reference Locations Installer Hartman Construction As-built & certification of final construction received 6-15-04. Final Insp. Date 6-16-04 System components installed/constructed as per approved as-built. System components installed/constructed as per approved as-built. Pump & alarm tests ok. OK to cover system. This Certificate of Satisfactory Completion is valid for a period of 5 years for connection of the system to the facility for which lit was constructed. After the 5 year period, rules for Authorization Notices or Alteration: Permits apply, which includes paying a fee,	•	
CERTIFICATE OF SATISFACTORY COMPLETION As-Built Drawing with Reference Locations Installer Hartman Construction As-built & certification of final construction received 6-15-04. Final Insp. Date 6-16-04 System components installed/constructed as per approved as-built. Pump & alarm tests ok. OK to cover system. Pre-cover inspection waived pursuant to OAR 340, Division 71 This Certificate of Satisfactory Completion is valid for a period of 5 years for connection of the system to the facility for which lit was constructed. After the 5 year period, rules for Authorization Notlines or Alteration: Permits apply, which includes paying a fee,	Special Conditions (Follow Attached Plot Pla	n) Install in accordance with plans & specifications
CERTIFICATE OF SATISFACTORY COMPLETION As-Built Drawing with Reference Locations Installer Hartman Construction As-built & certification of final construction received 6-15-04. Final Insp. Date 6-16-04 System components installed/constructed as per approved as-built. System components installed/constructed as per approved as-built. Pump & alarm tests ok. OK to cover system. This Certificate of Satisfactory Completion is valid for a period of 5 years for connection of the system to the facility for which lit was constructed. After the 5 year period, rules for Authorization Notices or Alteration: Permits apply, which includes paying a fee,	addressed & certification	of final construction by installer along with
CERTIFICATE OF SATISFACTORY COMPLETION As-Built Drawing with Reference Locations Installer Hartman Construction As-built & certification of final construction received 6-15-04. Final Insp. Date 6-16-04 System components installed/constructed as per approved as-built. System components installed/constructed as per approved as-built. Pump & alarm tests ok. OK to cover system. Pre-cover inspection waived pursuant to OAR 340, Division 71 Division 71 This Certificate of Satisfactory Completion is valid for a period of 5 years for connection of the system to the facility for which lit was constructed. After the 5 year period, rules for Authorization Notices or Alteration: Permits apply, which includes paying a fee,	copy of electrical permit	required prior to pre-cover inspection request.
As-Built Drawing with Reference Locations Installer Hartman Construction As-built & certification of final construction received 6-15-04. Final Insp. Date 6-16-04 System components installed/constructed as per approved as-built. Pump & alarm tests ok. OK to cover system. Pre-cover inspection waived pursuant to OAR 340, Division 71 This Certificate of Satisfactory Completion is valid for a period of 5 years for connection of the system to the facility for which it was constructed. After the 5 year period, rules for Authorization Notlinds or Alteration: Permits apply, which includes paying a fee,	PRE-COVER INSPECTION REQUIRED — CO	JNIACI <u>NCBO (503) 861-3280</u>
As-Built Drawing with Reference Locations Installer Hartman Construction As-built & certification of final construction received 6-15-04. Final Insp. Date 6-16-04 System components installed/constructed as per approved as-built. Pump & alarm tests ok. OK to cover system. Pre-cover inspection waived pursuant to OAR 340, Division 71 This Certificate of Satisfactory Completion is valid for a period of 5 years for connection of the system to the facility for which it was constructed. After the 5 year period, rules for Authorization Notlinds or Alteration: Permits apply, which includes paying a fee,	OFDTIFIOATE	
Installer Hartman Construction As-built & certification of final construction received 6-15-04. Final Insp. Date 6-16-04 Electrical permit received 6-17-04. System components installed/constructed as per approved as-built. Pump & alarm tests ok. OK to cover system. Pre-cover inspection waived pursuant to OAR 340, Division 71 This Certificate of Satisfactory Completion is valid for a period of 5 years for connection of the system to the facility for which it was constructed. After the 5 year period, rules for Authorization Notices or Alteretion Permits apply, which includes paying a fee,	CERTIFICATE	: OF SATISFACTORY COMPLETION
With Reference Locations Installer Hartman Construction As-built & certification of final construction received 6-15-04. Final Insp. Date 6-16-04 Electrical permit received 6-17-04. System components installed/constructed as per approved as-built. Pump & alarm tests ok. OK to cover system. Pre-cover inspection waived pursuant to OAR 340, Division 71 This Certificate of Satisfactory Completion is valid for a period of 5 years for connection of the system to the facility for which it was constructed. After the 5 year period, rules for Authorization Notices or Alterelion Permits apply, which includes paying a fee,	As-Built Drawing	
Final Insp. Date 6-16-04 System components installed/constructed as per approved as-built. Inspected By Connie Schrandt Pump & alarm tests ok OK to cover system. Pre-cover inspection waived pursuant to OAR 340, Division 71 Electrical permit received 6-17-04. System components installed/constructed as per approved as-built. Pump & alarm tests ok OK to cover system. Division 75 Division 76 Division 76 Division 77 Division 77 Division 77 Division 77 Division 78 Division 79 Division 79		
Final Insp. Date 6-16-04 System components installed/constructed as per approved as-built. Inspected By Connie Schrandt Pump & alarm tests ok OK to cover system. Pre-cover inspection waived pursuant to OAR 340, Division 71 Electrical permit received 6-17-04. System components installed/constructed as per approved as-built. Pump & alarm tests ok OK to cover system. Division 75 Division 76 Division 76 Division 77 Division 77 Division 77 Division 77 Division 78 Division 79 Division 79		
Electrical permit received 6-17-04. System components installed/constructed as per approved as-built. Pump & alarm tests ok. OK to cover system. Pre-cover inspection waived pursuant to OAR 340, Division 71 This Certificate of Satisfactory Completion is valid for a period of 5 years for connection of the system to the facility for which it was constructed. After the 5 year period, rules for Authorization Notices or Alteration. Permits apply, which includes paying a fee,	Installer Hartman Construction	As-built & certification of final construction
System components installed/constructed as per approved as-built. Pump & alarm tests ok. OK to cover system. Pre-cover inspection waived pursuant to OAR 340, Division 71 This Certificate of Satisfactory Completion is valid for a period of 5 years for connection of the system to the facility for which it was constructed. After the 5 year period, rules for Authorization Notices or Alteration. Permits apply, which includes paying a fee,		Electrical permit received 6-17-04.
☐ Issued by Operation of Law ☐ Pre-cover inspection waived pursuant to OAR 340, Division 71	Final Insp. Date	
□ Issued by Operation of Law □ Pre-cover inspection waived pursuant to OAR 340, Division 71 □ Pre-cover inspection waived pursuant to OAR 340, Notices or Alteration: Permits apply, which includes paying a fee,	Connie Schrandt	per approved as-built
□ Pre-cover inspection waived pursuant to OAR 340, Division 71 □ Pre-cover inspection waived pursuant to OAR 340, Division 71 □ Sequential Control of the system to the facility for which □ It was constructed. After the 5 year period, rules for Authorization Notices or Alteration Permits apply, which includes paying a fee,	☑ Inspected By	
□ Pre-cover inspection waived pursuant to OAR 340, Division 71 □ Pre-cover inspection waived pursuant to OAR 340, Division 71 □ Sequential Control of the system to the facility for which □ It was constructed. After the 5 year period, rules for Authorization Notices or Alteration Permits apply, which includes paying a fee,	□ leaved by Occuption of Law	Pump & alarm tests ok.
pursuant to OAR 340, Division 71 of 5 years for connection of the system to the facility for which It was constructed. After the 5 year period, rules for Authorization Notices or Alteration: Permits apply, which includes paying a fee,	issued by Operation of Law	
pursuant to OAR 340, Division 71 of 5 years for connection of the system to the facility for which It was constructed. After the 5 year period, rules for Authorization Notices or Alteration: Permits apply, which includes paying a fee,	☐ Pre-cover inspection waived	This Cariffests of Catalagam, Complete to a William and all
It was constructed. After the 5 year period, rules for Authorization Notices or Alteration Permits apply, which includes paying a fee,		of 6 years for connection of the system to the facility for which
Notibes of Alteration Permits apply, which includes paying a fee,	Division 71	
	sewage disposal system at the location identi	ified above. Set us a guidal que sa sese en a depart de sejumente complete estable de establismo de participar

Issuance of this Certificate does not constitute a warranty or guarantee that this on-site disposal system will function indefinitely without failure.

(Authorized Signature)	(Title)	(Date)	(Office)
Connie M. S.	Natural Resource Specialist	6-17-04	DEQ NCBO Warrenton

DEPT. OF ENVIRONMENTAL QUALITY RECEIVED

IIN	1	(Date Received)

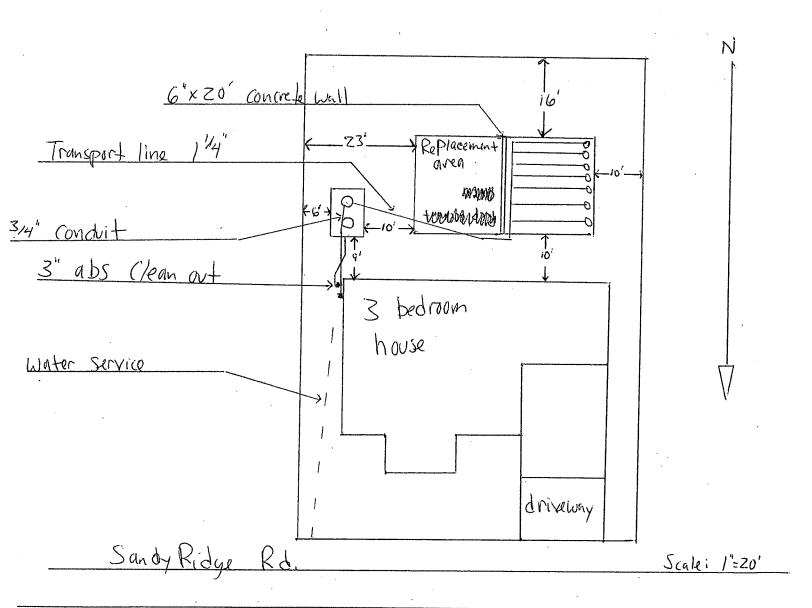
FINAL INSPECTION REQUEST AND NOTICE

NORTH COAST BRANCH OFFICE

Pursuant to the requirements within ORS 454.665, OAR 340-71-170 and OAR 340-71-175, the system installer and/or the permittee must notify the Department of Environmental Quality (or its authorized Agent) when the construction, alteration or repair of a system for which a permit was issued is completed (except for the backfilling or covering of the installation). The Department (or Agent) has 7 days to perform an inspection of the completed construction after the official notice date, unless the Department (or Agent) elects to waive the inspection and authorizes the system to be backfilled earlier. Receipt and acceptance of this completed form by the Department (or Agent) establishes the official notice date of your request for the pre-cover inspection. Please complete all four sections of the form and return it to the office that issued the permit. Forms that are determined to be incomplete will be returned.

SECTION 1: BASIC INFORMATION.
Property Owner <u>Olstest Constrain</u> Permit Number <u>04-25</u> County <u>Clatsup</u>
Township $\frac{100}{100}$; Range $\frac{100}{100}$; Section $\frac{340}{100}$; Tax Lot $\frac{180}{100}$; Tax Acct. #
Job Location Sandy Ridge Seaside
Date System Construction Completed 6-14-04; Date Submitted to DEQ or Agent
SECTION 2: MATERIALS LIST. Identify and list all materials used in the system's construction.
Orenco Pung Package
Orenco Manifold Kit 18'x 20'
18" Orenco Risers
Willamitte Gray Stone Z compartment tank 1500 gal
OR typer Filter Fabric
8 tons per-gravel
10 tons 1/2" drain Rock
36 tin deg. Sand
in the contract of the contrac

SECTION 3: AS-BUILT PLAN OF THE CONSTRUCTED SYSTEM. Indicate the direction of NORTH and show the locations of all wells within 200 feet of the system.



•	(Print Full Busi	ness Name)	(DEQ License Number)
Sewage Disposa	al Service Business: Hartman		38331
Property Owner	(Permittee)		
SECTION 4:	CONSTRUCTION WAS PERF	ORMED BY:	

I certify the information provided in this notice is correct, and that the construction of this system was in accordance with the permit and the rules regulating the construction of on-site sewage disposal systems (OAR Chapter 340, Divisions 71 and 73).

(System Installer's Signature)

)wner



Electrical Application

SOMMENTY DEVISEDBY FOR Building Socies Division

800 Exchange St. Ste 100 - Asional OK 97105 Prone (303) 336-3397 - Tex (303) 336-3333 WSPECTION REQUEST LINE (303) 336-3380 PERMIT NO. E4-244 LABEL NO. 401343 DATE BEUED: 3/22/2004 LESUED BY: GG

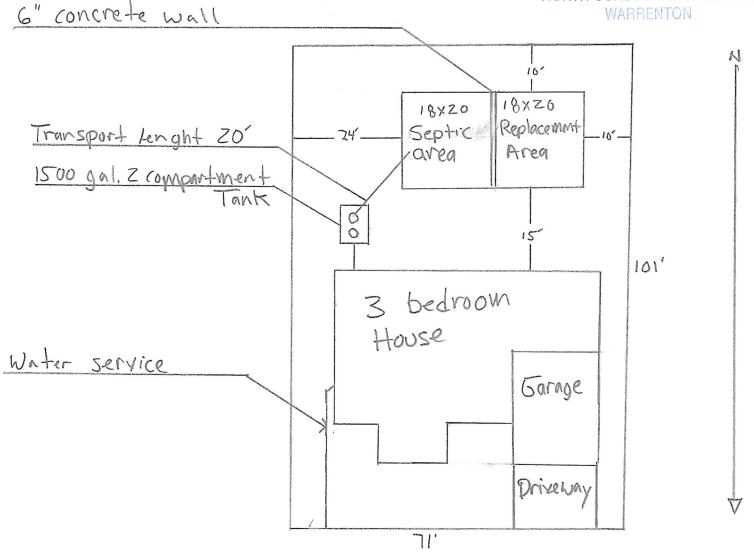
And the same transfer to the same and the sa		The second second
AGESS 1871 SANDY RIDGE	্রিজানেট দেশুক্রান্তর্গতেই তেন্দ্রভিত্তি	
ON CEARMANT SAN DR		gregoriani eta werebban k
্রান্তর্ভাগ্রন্ত		
p to the second property.	र्रोज्यवस्त्र व वस्त्राम	ne ica (comi allows:
1990 S.	Residental per unit service include it liems Go	si (es) Sum
	111	139.00 9 139.00 4
විසර සිමන්මහ ක්රිර්ණ ලෙසුණමේ බ් ර්ණ ආලාමයෙන් වෙන්නේ	East and 500 sa horizoner barries 2 8	24.00 3 48.00
ascellation involves on ar more of the following:		3106 5 = 1
fi. Salaha uma hina 10039 SI.	were reconsidered from the constant of the con	
2. Ward their 320 amps continuous rating material through a	Service of Pesser (Rech)	63 00 3 : 2
self-corretrate matering device for one & live Femily amplings:	ইসমূত্র জ দ্বর্ভনেত। Installation,	
or more than 225 amp for service and 400 amp feedors for other	230 amps or less 9	70.00 S = 2
ther one a war femily duallings.	23% emps to 400 arres	94.00 <u>0 : 2</u>
E. Mars than 600 voils nammak	• • • • • • • • • • • • • • • • • • •	(35.0C S = 4
C. Structure mate then three stories;		20± 10C S : 3
E. Four (4) or more material units or an oscupancy rating of	The state of the s	GR.00 5 = 3
more their 99 sensors		68.00 3
15. Granier 3 of the Melional Etrahnadi Goda hazarienia leadinna	Françoismy Service of Freedoms	Fig. 127
7. Vandaduras Sincures Park ar Romational Vahido Park		
IN SECONDANCE COMPANIES SECURIFIED IN MERCASIA OF INCIDENCES OF INCIDENCES INCIDENCES		36 00 <u>5 : 2</u>
TO THE TRANSPORT OF THE PROPERTY OF THE PROPER	1981 10 500 5mps	125.00 8 - 2
TO THE STATE OF THE PROPERTY O	REGISTOR STORES	
	BRACE AREUTS: New algorithm or	
DES. DEPOSES, 10 SLEEP ANY ARM EXERCE LINU MENSION DESERVED.	extension per pensi	
REGIONS FOR THE SELLE WAST'S SYSTEMS OR WAST'S WASTE WAST'S	This will be bettered of source or poster.	
CONTRACTOR'S INSTALLATION	Esgribando siculi	4.30 3 =
Engine Contegur PRAINE BLECTRIC	le Vilidae de perfess d'espres d'isser	
	First Branck Chealt	50.00 S =
Sing OF IN. 37300	Each vissil desner anouns	4.60 8
Date Jela!	Disealanceus (sorvies er facebr na indicient)	A CONTRACTOR OF THE CONTRACTOR
Property Owners OLSTEDINGONST		6690 6 2
। ভিজেন্ত্রে উপ্তেশ্যের নিজ্ঞান্তর #		(63:03) (3) 2
Contediars Board Reg #	क्रिक्रम् अस्त्र क्रिक्स क्रि	68:1997
କ୍ରିୟ ହେଉଟର ଓ କରନ୍ତ କର୍ମ୍ବ । ବ୍ରୟ ହେଉଟର ଓ କରନ୍ତ କର୍ମ୍ବ ।		କ୍ଷରତ ଓ - ୨୦
ନୟ ଅନ୍ତର୍ଶ ହେ । ଅଧିକ ବ୍ୟକ୍ତ । ମଧ୍ୟ ଜଣ ହେ । ଅଧିକ । ଅଧିକ ଆଧାରଣ ଓଡ଼ା	East additing to the discribit in	58 98 <u>8</u> 4
OWNER INSTALLATION		6150 5
Sanda series in the contraction of the contraction	any of the above, par integration	19.1 (a) (b) (c) (c)
William Waller and the second and th	2-60000	(
Address Sign OR AF:	(Total Paris 2 7% State Surgistine (Med (
Sinc <u>II Z</u> F: Phone	S Plan Review Fee 25% of the Colored	5 A 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2
The installation is being made on property found.	4 University China Control (in appoint of the appoi	
ශ්රීම ගියික් මේ ගින් පැවසට කත්වීම සමුද කරන	5 Total Gas	
lieve read and undersend the abelied "internation belies	S Gulk Labad Propad Pro (ii appli	
ie Process die in installe die die die die die die die die die di	2	
I male vije i i i i i i i i i i i i i i i i i i	4.1	
Dixtración Situacións	3 Salamas 9	dring 9 168.67

Enstaller- Hartman Const Dwner-Steve Olstedt 710-346-1811 Sandy Ridge lot#11

DEPT. OF ENVIRONMENTAL QUALITY

FEB 09 2004

NORTH COAST BRANCH OFFICE



Sandy Ridge Rd.



Installer-Hartn	nan Copit.
Owner-Steve O	
710-346-1811	Lot#11

DEPT. OF ENVIRONMENTAL QUALITY RECEIVED

FEB 09 2004

HARTMAN CONSTRUCTION COAST BRANCH OFFICE MATERIAL LIST

PIPE & FITTING	
1 1/4" PVC 200 PSI	
1 1/4" PVC 200 PSI	
4" 3034 PVC PIPE 4" 3034 PVC FITTINGS	
TANKS	
WILLAMETTE GRAYSTONE 1000 GAL DOSING	
MICHAELS 500 GAL DOSING	
MICHAELS 300 GAL DOSING MICHAELS 1000 GAL SEPTIC	
WILLAMETTE GRAYSTONE 2 COMPARTMENT 1500 GAL DOSING/SEPTIC	
WILLAMETTE GRAYSTONE SINGLE COMPARTMENT 1500 GAL DOSING/SEPTIC	
RISERS	
ORENCO-	
NORWESCO	
MICHAELS	
PUMPS & SUPPLIES	
ED ANTA DI 20 CD (
FRANKLIN 30 GPM	
ORENCO FLOATS AND ALARMS ORENCO EFFLUENT SCREEN	
ORENCO EFFLUENT SCREEN	
DRIAN MEDIA	
NASELLE SAND & GRAVELSAND	
JOHNSON 1 1/2" DRAIN ROCK	
JOHNSON PEE-GRAVEL	
MOHLER PEE-GRAVEL	
GLACIER NORTHWEST , INC SAND	
FILTER FABRIC	
DUPONT SF 20	
OR TYPAR	



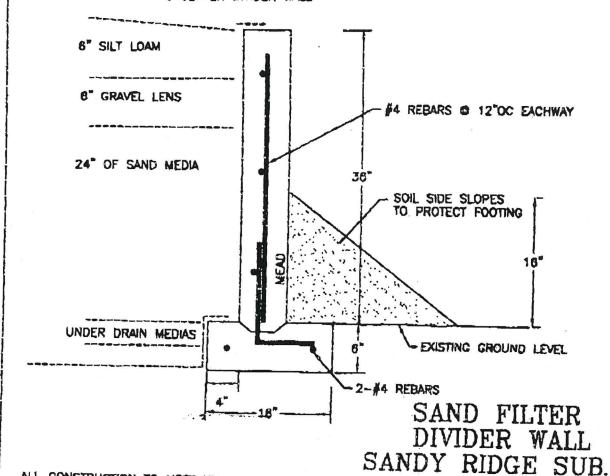
P 0 1 DEPT. OF ENVIRONMENTAL QUALITY RECEIVED

710-34C-1811 (Lot 11) Olstedt Construction

FEB 2 0 2004

TYPICAL CONCRETE WALL SECTION ST BRANCH OFFICE Hartman FOR A SAND FILTER

> WALL CAN BE USED FOR BOTTOMLESS SAND FILTER AS CENTER DMDER WALL



ALL CONSTRUCTION TO MEET UNIFORM BUILDING CODES CONCRETE TO BE 2500 PSI © 28 DAYS REBAR TO BE GRADE 40 OR BETTER OWNER/CONTRACTOR TO OBTAIN BUILDING PERMIT IF REQUIRED FOR CONC WALL



ECPTEES 12/31/2004

DATE: 19 FEB 2004

Mead unginooring Kesouroes inc

90331 HAWKINS ROAD WARRENTON, OREGON 97146

Ph. 503-861-2604

FOR OLSTEDT CONSTRUCTION

PO BOX 2363 GEARHART, OREGON 97138 Ph. 503-738-3968

THIS DRAWING IS FOR THE SOLE USE OF OLSTEDT CONSTRUCTION FOR SANDY RIDGE SUBDIVISION, GEARHART OREGON AND IS NOT TO BE USED BY ANY OTHER CONTRACTORS WITHOUT WRITTEN PERMISSION FROM MEAD ENGINEERING

> Connie M. Schrandt, W.W.S Lic. No. 0207760756

Installer-Hartman Ost. Owner- Steve Olstedt 710-340-1811 Lot#11

DEPT. OF ENVIRONMENTAL QUALITY RECEIVED

FEB 0 9 2004

NORTH COAST BRANCH OFFICE WARRENTON

16"-12" Sand cover

8" 12" drain Rock

28"

Note: Max depth of 33"

approved

Connie M. Schrandt, W.W.S.

Connie M. O207760756

ZV7/04

Discharge Line NOTE WAR

Flushing Valve Box

Air Coil System

Q

3/4" PVC Lateral (*/ 1/8" dia. orifices)

(541) 459-4449 FACSIMILE:

(541) 459-2884

814 AIRWAY AVENUE SUTHERLIN, OREGON 97479-9012 TELEPHONE:

-30 Mil PVC Liner Orifice Shield 15" 30, \star Configured for loading rates up to $1.25~GPD/FT.^2~$ Follow appropriate intermittent sand filter design criteria.

24"

1-1/4" PVC Manifold -

4" Class 125 Slotted PVC Pipe (1/4" wide slots 2-1/2" deep at 4" on center)

End Cap

From OSI Effluent Pumping System

Orenco Systems[®] Incorporated 11/8

20'x18' Intermittent Sand Filter* with Gravity Discharge

Tristaliki - Hartwan (ONS+

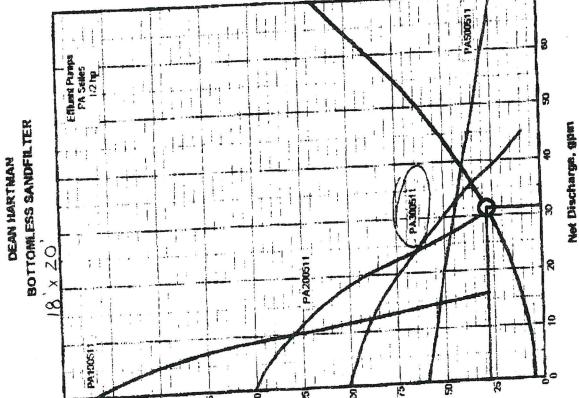
Owner- Steve Olstedt

11 # +07

710-346/811

Patent # 5.360.556

Orence System From Strategy



のののない

Total Dynamic Head (TDH), feet

0.43 gpm

Menimum Flow Rade per Orifice Paumber of Ordices por Zona

Calculations

34.3

Total Access From Rate

Pump Selection for a Pressurized System

407

Ridge

Sandy

FRESHES HOME TICHES inches To exches Tenes all inch pas of to feet IO.C. Tool TO . 90 feet IZ D feet 10.0 1.25 음 Transport Line Size Transport Pipe Ciass/Schedule Discharge Assembly Size Add on Fridian Losses lansport Length Flow Marks Maryfold Pipe Christ-Schetkale Lift to Merrifold Distributing Valve Model Marufold Lane Size Lateral Pipe Classifscheckde Residual lead at Last Oritice Orance Specing Number of Literature per Cell Lateral Line State Manifold Length Onifice Sees Labered Lerigh - Input Parameters

31.3 gpm And en' Friction Losses Meng Loss Through Discharge Hapti Loss Through Flow Meder ess Through Distributing Valve Head Loss in Manifold Residual Head at Last Onlince Head Loss in Laterats lead Loss in Transport Pipe Member of Lanes per Zone Fire Differential 1st and Lest Orkov Total Flow Rate Connie M. Schrandt, W.W. Connie M. Schrandt, W. Connie M. Schradt, W. Connie M. Schradt, W. Connie M

3 and a feed

E

27.9 feet

H

DWMPL- Steve UIStedt

181-345-01

Contractor- Hartman Const.

APR-17-2005 09:00 AM

LARSON CONSTRUCTION CO.

503 738 2020

P.01

Sent By: NBRM - MSG;

368 5158;

Apr. 3 8:05;

Page 2/2

SIEVE pea gravel

DEPT. OF ENVIRONMENTAL QUALITY

MOHLER SAND & GRAVEL

503-368-5157 OFFICE / SHOP 503-368-5166 FAX-House 503-368-5158 FAX-Shop 36435 HWY, 101 N NEHALEM, OR 97131

FEB 0 9 2004

NORTH COAST BRANCH OFFICE WARRENTON

PEA GRAVEL SPECIFICATIONS ANALYSIS DATE: 04/24/02

SIEVE	WEIGHT RETAINED	% RETAINED	% Passing	SPEC'S
1/2 1/4 4 10 16 100 PAN	0 827 2037 2254 94 83 5	4180 3453 2416 162 68,0 5.0	826 57.8 3.9 1.6 0.1	18-100 5-75 < 24 < 2 < 1

Installer-Hartman Const. Owner-Steve Olstedt >10-34c 1811 Lot #11

Connie M. Schrandt, W.W.S.

Connie M. O207760756

Connie No. 0207760756

APR-14-2003 (NON) 10:23 Installer-Hartman Const P. DOI/ODI Junur-Steve Olstedt DEPT. OF ENVIRONMENTAL QUALITY 710-340-1811 Lot#1) RECEIVED

PROJECTI	AME (BECTION		- IELLI	WORK S	SHEET I	OR A	GGREG/	ATE		1 40	00 2	2004
74	THE COLO TION					-		ĵ\	FENTRA	TUO AS	TBRAN	VUH UF
HIGHWAY					COUNTY				-	LAKAD	DENT	M
-					1				PA.NO.			
	or or supplie				BOURCE N	ME	714-71-					
Nasel	le Rock	& Asphalt C	٥.		87							
PROJECT M	ANAGER			-	SCURCE NO	Lie Qu						
			;÷				MATERIAL SI	ZE	TO BE USE	PIN	E. I. NQ.	REPORT
		DATE	TIME	TEST NO.	WA-02	25-2				_		
Medium	1 Sand	10-3-02			DAIL		TIME	TEST NO.	DATE		TIME	TEST
SAMPLED AT		Pile	10:204	.//\							1	
DAILY PRODU	JETION AT	1116					-					
AMOUNT RE	PRESENTED			NOT X		2		TON				T
MY TEST				GY.				□ av.		V 0.000 W 0.000 W 0.00		
AMOUNT INC	CAPCHATED				-							
ANGUNTRE	ECTES	1		7 1								
SIEVE ANALY	B15	X WET	DRY		WET		-		EL LANGE LANGE			
difference of		RETAINEL		PASS	MEI	RETAINED	DRY		_ Wi		DR	4
2EZÉ \$€AE	SPOCS.		1			UT IMPART		PA33		RETAINEC		PASS
360		WEIGHT,	96	%	Weit	SHT	96	756	25		1	
3/8"	100			100	1,000			'96	'W	EIGHT .	95	76
#04	95-100	2,5:		100								
# ₀ 8	20-100	146.4	15									
#16	45-85	344.9	-	25								T
#30	15-60		36	64								7
#50		483.7	51	49		-				-		-
9F/00	3-15	814.3	86	14						- August		-
700	4 OMAK	936.	98.4	1.6					-			+
			670000000000000000000000000000000000000	<u>. </u>							+	-
FAN 8	66. a	948.0						-		-		
NITIAL WT.	51.1	1	100				100		-			
10-0/4-0		1.	- CAMPAN COMMITTEE	-		1	1 100				100	
40-0/10-c		/				/				/		
200-0/10-0		1				/,				1		
RACTURE		0		-		/				/		
LONG.		Percent Finer										
MODDWASTE		Last by Wash	104 . O.	12 %			VER-10-10-10-10-10-10-10-10-10-10-10-10-10-					
AND			J			7 4000000000000000000000000000000000000				T SHEETH PAINTS		
DUIV.								-				
RIABLE		200000000000000000000000000000000000000										
.v		1				-						
FM					-							
	JIVALENT	TESTS		TUBE	TUBE	TUBE	TUBE	TUBE	TUBE	1 = 1 = -	(=,,==	
DAIND: FOL			_				1 UDE	I UDE	LORE	TUBE	TUBE	TUBE
Time of test				-								
Ime of test	(eand)	,	(inches)	1							The state of the s	
ime of test eight of Rod		naterial	(inches)			- WATER STATE OF THE PARTY OF T						
Time of test leight of Rod eight of susp	ended clay n		(inches) (inches)									
Time of teat leight of Rod eight of susp and Equivale	ended clay n		THE REAL PROPERTY.									
lime of test eight of Rod eight of susp and Equivale verage*	pended clay ment — Line 2 X	100	(inches)									
The of test leight of Rod leight of susp and Equivale verage*	pended clay ment — Line 2 X	100	(inches)	ng or within	6 points o	f feiling a	no report a	alpule § 2	lest Pen	ort a fener	anal se	nine as
lime of test eight of Rod eight of susp and Equivale verage* ike average of next highest	nended clay not be tune 2 X of three tubes twhele number		(inches) ent is fallin 2~42, Ex							ort a fract	onal SE v	alu e es
Ime of test eight of Rod eight of susp end Equivale verage* use average of next highest	ended clay not be set of three tubes twhele numbers are	100 s when sand equival er. Example SE-41.	(inches) ent is fallir 2~42. Ex.	REMARKS - L	ST TIME AND	EYTENT O						
Ime of test eight of Rod eight of susp end Equivale verage* use average of next highest	nended clay not be tune 2 X of three tubes twhele number	100 s when sand equival er. Example SE-41.	(inches) ent is fallir 2-42, Ex	This 31	ST TIME AND	EXTENT O	F DELAYS, PL	ANT CHANG	its, etc.			
ine of test eight of Rod eight of susp and Equivale verage take average of next highest	pended clay in the tube tube to three tube to the number of the tube tube to the tube tube tube tube tube tube tube tub	100 s when sand equivel er. Example SE-41.	(inches) ent le fallir 2-42, Ex	This si	EVE ON	EXTENT O	FOELAYS, FL	ANT CHANG	: E5, ETC.	:co+dev	معيد سنة	h
ine of test eight of Rod eight of susp and Equivale verage take average of next highest taken was Highest	pended clay in the line 1 tube 2 x of three tube is whole number to be a considered by DIVISION	when sand equivaler. Example SE-41.	(inches) ent le fallir 2-42, Ex	This si	EVE ON	EXTENT O	FOELAYS, FL	ANT CHANG	: E5, ETC.	:co+dev	معيد سنة	h
Ime of test leight of Rod leight of susp and Equivale verage the average of next highest Highest Hightw/	pended clay in the Line 2 X of three tubes to whole number to be a possible of the control of th	when sand equivaler. Example SE-41.	(inches) ent is fallir 2-42. Ex	ASTM C ASTM C ASTM C COOLER ASTM C	ET TIME AND EVE OF -136, 54	extent of	FOELAYS, FL	ant change chome to for s	الله و الله الله الله الله الله الله الله	eakses;	rec with of fine	th and with
Ime of test leight of Rod leight of susp lend Equivale verage Inext highest Highest Highway CONTR	pended clay in the line 1 tube 2 x of three tube is whole number to be a considered by DIVISION	when sand equivaler. Example SE-41.	(inches) ent is fallir 2-42. Ex	ASTM C ASTM C ASTM C COOLER ASTM C	ET TIME AND EVE OF -136, 54	extent of	FOELAYS, FL	ant change chome to for s	الله و الله الله الله الله الله الله الله	eakses;	rec with of fine	th and with
Ime of test leight of Rod leight of susp lend Equivale verage Inext highest Highest Highway CONTR	pended clay in the Line 2 X of three tubes to whole number to be a possible of the control of th	when sand equivaler. Example SE-41.	(inches) ent is fallir 2-42. Ex	This si	ET TIME AND EVE OF -136, 54	extent of	FOELAYS, FL	ant change chome to for s	الله و الله الله الله الله الله الله الله	eakses;	rec with of fine	th and with
ine of test eight of Rod eight of susp and Equivale verage the average of next highest Highest Hightwa CONTEL	pended clay in the Line 2 X of three tubes to whole number to be a possible of the control of th	when sand equivaler. Example SE-41.	(inches) ent is fallir 2-42. Ex	ASTM C ASTM C ASTM C COOLER ASTM C	27 TIME AND 27 & S -136, 54 -137, 54 -177, 5	enerro nalys andan the an standa sieve	FOELAYS, FL	ant change chome to for s	الله و الله الله الله الله الله الله الله	eakses;	rec with of fine	th and with
ine of test eight of Rod eight of susp and Equivale verage the average of next highest Highest Hightwa CONTEL	pended clay in the Line 2 X of three tubes to whole number to be a possible of the control of th	when sand equivaler. Example SE-41.	(inches) ent is fallir 2-42. Ex	ASTM C ASTM C COURSE ASTM C	27 TIME AND 27 & S -136, 54 -137, 54 -177, 5	enerro nalys andan the an standa sieve	FOELAYS, FL	ant change chome to for s	الله و الله الله الله الله الله الله الله	eakses;	rec with of fine	th and with

Connie M. Schrandt, W.W Lic. No. 0207760756 2 23 04

DEPT. OF ENVIRONMENTAL QUALITY
RECEIVED

OLSTEDT CONSTRUCTION, INC. PO BOX 2363

FEB 2 0 2004

GEARHART, OREGON 97138 503-738-3968

NORTH COAST BRANCH OFFICE WARRENTON

FAX 503-738-3973

TO:	FROM:
Dave Johns	Steve Olstedt
FAX NUMBER	DATE:
861-3259	February 20, 2004
COMPANY:	TOTAL NO. OF PAGES INCLUDING COVER:
DEQ	2
PHONE NUMBER: 503-738-3968	SENDER'S REFERENCE NUMBER:
Concrete Wall Plans – Dave, yof the plans	ou can use cither
☐ URGENT ☐ FOR REVIEW	☐ PLEASE COMMENT ☐ PLEASE REPLY ☐ PLEASE RECYCLE

P. 2

160 Laneda Ave. - PO Box 219 Manzanite, OR 97130 tel. (503) 368-5394

Title : Olstedt 4" tell Refaining Wall Job # : ...New... Osgnr: rgl Description...

Page: Date: FEB 13,2004

1 tax (503) 368-5847

4' tall wall for Sand Filter Barrier Wall

Retain Pro 8.1c, 20-Jan-2004, (c)1989-2004	This Wall in	File: M:\Misc Apps\RetainPro\$1\olstedt sand fil
Registration # : RP-1131105	Cantilevered Retaining Wall Design	Code: 1997 UBC

		Can	ţ
			141
77	4,00 ft		4
Ξ	0.00 fr		Ε
=	0 00 : 1		+
E	6.00 In		0
•	0.0 R		3
n.	0.0 psf	F	
	= = = = = = = = = = = = = = = = = = = =	= 0.00 ft = 0.00 in = 6.00 in	7 4,00 ft = 0.00 ft = 0.00 : 1 = 6.00 in

Soll Data	-	
Allow Soil Bearing		Constant Library
Allow Soil Breating	=	1.200.0 pst
Equivalent Fluid Pressur	e Mei	hod
Heel Active Pressure	=	32.0 psf/ft
Toe Active Pressure	•	30.0 pst/ft
Passive Pressure	=	370.0 psf/m
Soll Density	mr.	110.00 pcf
Footing Soil Friction	=	0.300
Soil height to Ignore		
for passive pressure	=	0.00 in

_	Ç	ode: 1997 UB	C
Footing Dimension	ns &	Strengths	I
Toe Width	K	0.83 ft	
Heel Width Total Footing Width	=	1,42 2,25	
Footing Thickness	=	9.00 in	
Key Width	=	0.00 in	
Key Depth Key Distance from Toe	B 15	0.00 in 0.83 ft	
To = 2,500 psi F	- - -	60,000 ps;	
Footing Concrete Density Min. As %		150 00 pcf 0.0018	
Cover @ Top = 2.00 in	@ E	3.00 in	
Adingont Footier		_	

Surcharge Loads	a special		
Surchange Over Heel Used To Resist Sliding	- º ^	0.0 psf	
Suspension Over T	g a U		
Surcharge Over Toe		12g 0.0	
Used for Sliding & Ove	mum	ng	
	0 61		
Axial Load Applie	d to	Stem	
Axial Dead Load	d to	Stem 0.0 lbs	
Axial Dead Load Axial Live Load	A COLUMN	0.0 lbs	
Axial Dead Load	n	THE RESERVE OF THE PERSON NAMED IN	

Lateral Load Ap	plied	to Stem
Lateral Load	2	0.0 #/ft
Height to Yop	=	0.00 ft
Height to Bottom	=	0.00 ft

Adjacent Footing		of the last terminal and terminal and terminal and the last terminal and terminal and th
Adjacent Footing Load	_	0.0 lbs
Footing Width	=	0 00 m
Eccentricity	=	0 00 in
Wall to Ftg CL Dist	=	0.00 n
Footing Type		Line Load
Base Above/Below Soil at Back of Wall	-	0.0 ft

Design Summary			
Wall Stability Ratios		Mayor Division	
Overturning	7	2.84 0	K
Stiding	=	175 0	
Total Bearing Load	=	1,002 165	
resultant ecc.	=	4.05 in	2
Soil Pressure @ Toe	b	846 px	f OK
Soil Pressure @ Heel	=	45 ps	
Allowable	_	1.200 ps	
Soil Pressure Less	Than A	Howable	
ACI Factored @ Toe	=	1.015 psi	
ACI Factored @ Heel	=	54 ps	
Footing Shear @ Toe	=	2 5	
Fooling Shear & Heel	=	4.0 ps	
Allowable	_	7.1 per	OK
50101 1001 1000 1000 1000 1000 1000 100	=	8 5.0 psi	
Sliding Cales (Vertical C	ompone	MI NOT US	sed)
Lateral Sliding Force	=	337.6 lbs	
less 100% Passive Force		289.1 lbs	
legy 100% Friction Force	=	300.7	
Added Force Reg'd	=	0.0 lbs	ОК
for 1.5 : 1 Stability	=	0.0 lbs	

Stem Construction		Top Stem			
Design height		Stem OK	 		
Wall Material Above "Hr	H=	0.50			
Thickness	· =	00.10.010			
Rebar Size	_	6.00 # 4			
Rebar Spacing	-	18.00			
Rebar Placed at	_	0.00			
Design Data	-	Edge			
MFB + ta/Fa	D	0.253			
Total Force @ Section	ibs =				
Moment, Actual	11-# 3	545.1			
Moment Allowable		2.155.6			
Shear., Actual	DEI =	9.0			
ShearAllowable	psi =	85.0			
Lap Splice if Above	ln =	31,20			
Lap Splice if Below	In =	6.00			
Wall Weight	=	75.0			
Rebar Depth 'd'	in =	3.75			
Masonry Data	0.000		 		
£m .	p3i =				
Fs	psi =				
Solid Grouting	37				
Special Inspection	=				
Modular Ratio 'n'	_				
Short Term Factor	=				
Equiv. Solid Thick.	=				
Masonry Block Type = Me Concrete Data	dium	Weight			
e	DSI =	2,500.0	 	ORDER STORE C	×
	psi -	60,000.0			
0		-0,000.0			

rooting Design	IK	esults		
		Ton	Heet	
Factored Pressure	=	1,015	54	psf
Mu : Upward	=	311	. 78	
Mu', Downward	=	70	437	
Mu. Design	2	241	359	
Actual 1-Way Shear	7	4.05	7.07	
Allow 1-Way Shear	=	85.00	85.00	
Toe Reinforcing	=	None Specid		-
Heel Reinforcing		None Specid		
Key Reinforcing		None Special		

Other Acceptable Sizes & Spacings Toe: Not reg'd, Mu < 5 ° Fr

Meel: Not reg'd, Mu < S * Fr Key: No key defined

DEPT. OF ENVIRONMENTAL QUALITY RECEIVED

FEB 1 9 2004

NORTH COAST BRANCH OFFICE WARRENTON

FROM

MANZANITA 1 503 3685847

P. 3

HLB & Associates

160 Laneda Ave. - PO Box 219 Manzanita, OR 97130

tel. (503) 368-5394 fax (503) 368-6847 Title : Olstedt 4' tall Reteining Wall
Job # :...New... Dsgnr: rgl
Doscription....

Date: FEB 13,2004

4' fall wall for Sund Fifter Barrier Wall

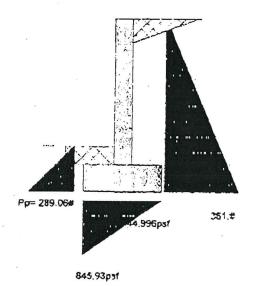
This Wall in File: M:\Misc Apps\RetainPro61\olstedt sund fil

Retein Pro 6.1c. 20 Jan-2004, (c) 1989-2004 Registration # : RP-1131105

Cantilevered Retaining Wall Design

Code: 1997 UBC

TING istance I ft 1,79	Moment 17-# 722
	(22)
0.00	
0.00	
0.00	
0.00	
0.42	19.1
1.03	325.0
1 12	284.8
	204.0
	243.1
2	1.03 1.13 0.83 2.25



DEPT. OF ENVIRONMENTAL QUALITY RECEIVED

FEB 1 9 2004

NORTH COAST BRANCH OFFICE WARRENTON

160 Luneda Ave. - PO Box 219 Manzanita, OR 97130 1 N C O R P O R A 1 E 0 fax (503) 368-5394

Olstedt 4' tall Retaining WallNew... Dsgnr rgt Title Job # Description....

Page. Date: FEB 13,2004

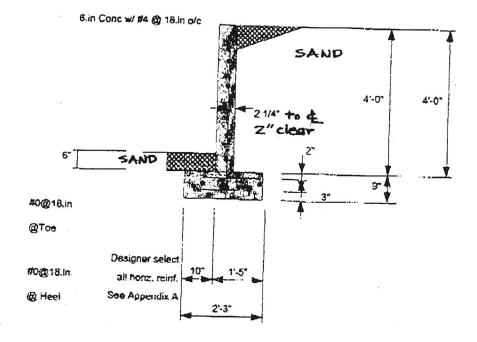
4' tall wall for Sand Filter Barrier Wall

This Wall in File: M:\Misc Apps\RetainPro61\olstedt sand fil

Retain Pro 6.1c, 20-Jan-2004, (c)1989-2004 Registration # : RP-1131106

Cantilevered Retaining Wall Design

Code: 1997 UBC



DEPT. OF ENVIRONMENTAL QUALITY RECEIVED

FEB 1 9 2004

NORTH COAST BRANCH OFFICE WARRENTON

P. 1

2-19-2004 1:32PM

FROM H

MANZANITA 1 503 3685847

P. 5

FOUNDATION WALL DESIGN for:

OLSTEDT SAND FILTER

Design by:

HLB & Associates, Inc.

PO Box 219, Manzanita, OR 97130 Tel:(503)368-5394, FAX:(503)368-5847

FOUNDATION WALL REINFORCEMENT DETAILS

Date:

17-Feb-04

Spacing o.c.

File:

WALLRENF.XLS

FOOTING, Longitudinal Reinforcement

Wall ID	Footing Dimensions		Steel P	ercentage	0.18% min.	7
4' high	Width	2.25	ft.	Area	1.69 sq. ft.	7
wall	Depth	9.00	in.	A s reg'd	0.44 sq. in.	7
	Rebar Size #	4	bar	0.2 s	q. in., As ea, bar	1
	Amount req'd	3	ea.			1
	A supplied	0.60	sq. in.		0.2469%	C

16 in.

RETAIN	IING WALL REIN	FORCEM	ENT DET	AILS	Horiz.	Vertical
Date: File:	17-Feb-04 WALLRENF,XLS			Steel Area Req'd: Use	Masonry 0.07% Concrete	0.13%
STEM Lo	ngitudinal Reinfor	cement		0.20% min.	0.20%	(
4' high	Wall Width	6 in.	A s req'd	0.144 sq.in./ft	7	
1	Rear Face	0			7	
1	Rebar Size #	4 bar	A s actual	0.15 sp.in./ft	OK	

No reinf, required in front face

DEPT. OF ENVIRONMENTAL QUALITY
RECEIVED

FEB 1 9 2004

NORTH COAST BRANCH OFFICE WARRENTON

STATE OF FGON DEPARTMENT OF ENVI MENTAL QUALITY NORTH COAST OFFICE 65 N. Highway 101, Suite G Warrenton, OR 97146 (503) 861-3280

FOR OFFICE USE ONLY

D. Rec'd 2-9-04

Date Completed 2.73-04

Required Fee \$ 940.00

Receipt No. //0824

Control No. 70725

FOR APPLICANT'S USE - (PLEASE PRI	NT)		23 AC	
TON MITPICALLY D'ODD		Control of the last of the las	reage or Dimensions)	=
Steve Olstedt				
(Property Owner's Name)	(App]	licant's Name if	Different from Owner)	
Legal Description 7N	10W) :3	340 1811	Clatsop	
			/Acct. No.) (County)	
For Parcels in Platted Sandy			(00000)	
Subdivisions, Indicate (Subdivisions)	sion Name)	(Lot Number)	(Block Number)	
Proposed Facility		Vate	er Supply	
[Single Family Residence (Number	er of Bedrooms	Public ((Community System)	
[] Other(Specify)	• .		(Indicate: Well, Spring	, Etc.)
Existing Facility	*		ere Olstedt	
[] Single Family Residence			811 20+ #11	
(Number	r of Bedrooms			
[] Other		30		
(Specify)	•			
[] Site Evaluation Report [] Permit to Construct On-Site Sewag [] Permit to Repair On-Site Sewag [] Permit for Alteration of On-Si [] Permit Renewal [] Existing System Report [] Plan Review [] Other (Specify)	e Disposal Sy	System [] stem posal System [] [] [] []	pose of Authorization No Connect to an existing a not currently in use Replace one mobile home with another or a house Replace or rebuild a how Addition of one or more Personal hardship Temporary housing Other (Specify)	system with e use
This application will be returned propriate fee and attachments requested to instructions in the guild by my signature, I certify that the Department of Environmental Qui	ired in the g dance packet	uidance packet. <u>before action car</u>	Your site must be preparable taken on this appli-	red ac- cation.
above described property for the p	urpose of thi	s application.	permission to enter on	to the
Dean Hartman	1-2	1-07 PO Li	thorized Representative censed Installer	
(Signature)	(D	ate) Li	cense No. 38331	
Owner's Mailing Address Steve Olstedt P.O. Box 2363		plicant's Mailing	Address (if different)	
<u>5earhart or 97138</u> Phone 503-738-3968	Phone		IW\WC8\WC8690 (7-19	-91)

Installer-Hartn	ran Consti
Owner-Steve	Olstedt
710-34-1811	Lot#11

DEPARTMENT OF ENVIRONMENTAL QUALITY LAND USE COMPATIBILITY STATEMENT (LUCS) For On-Site Sewage Disposal System Permits

SECTION 1: TO BE FILLED OUT BY APPLICANT

SECTION 1: TO BE FILL	ED OUT BY APPLICA	AINI	4 4 34		
1. Name of Applicant S	exe Olstedt		Telephone (503 17	738-3468
Mailing Address Po	Box 2363		/ <u>/</u> _		
maning / reduction					100
City 5	earhart.	State	OR	Zin 9	7/38
		Otalo	011		. 113.6
2. Property Information: County	+S6P			•	
	1	2 3	40		1011
Township	Range 10 W	Section _ >	1	_ Tax Lot#	1811
Property Address				-44	
	applicable <u>Sanc</u>	Ly Ridoe	Block	Le	4 1/
Cubalition Hallo II	приносыю	1 9		14 500 14	1 T T T T T T T T T T T T T T T T T T T
3. This proposal is for:					
An individual sing		mont business as fee	Siile and the m	nu hansupisa.	30.11
products)	escribe type of develop	ment, business or lac	my and the p	rovided serv	ices or
products)					
*		•	. BOLLEA		Dati Wille
4. Check type of permit or ap	oproval you are reques	ting:			
On-Site Construc	tion-Installation permit	Tor new construction,	repairs or alt	erations (circ	de one)
	ed facility requests, i.e.	pit privies/vault tollets	for camp gro	unas	
On-Site Authorization Replacement of o		Biggs SOLD at the	* neliosi, lis		
☐ Replacement of the Bedroom addition			Simple of	in beir - Jes	\$.
	and use involving poter	ntial sewer flow incre	ases	ej ji vo. o, s	ba.
				797074	
SECTION 2: TO BE FILLE	DOULBY COUNTY	OR CITY PLANNING	3 OFFICIAL		
5. The facility proposal is loc	ated: Dinside city lim	nits Linside the UGE	3 Q outside I	JGB	
If incide the LICE	the feelility is subject to		art sebetaja		
Di City jurisdiction,	the facility is subject to	J.	. 14.		
County jurisdicti		ry 19 og til myri	and the second second		d.
☐ Shared city/cou					
N to a multio mallon and burn	des serviced	Man Handan	Dete		la .
6. Is a public notice and hea	nng required? U yes	d lio meaning	Date		
7. The business or facility co	mplies with all applica	ble local land use red	quirements:)	yes Q	no
Comments:	•				
					100
Signatures, thath south an	d alternation officials	may pood to alan #	uaa la'aalibla	LION	
Signatures: (both county an	a city pianning onicials	s may need to sign if	use is within	a UGB)	
			a - C - Circ	te .	4.39
Planning Official (county)	Print Planning Office	ial's Name Title	Phone	e	Date
Why no	5 –		1		9 9
Description Official (1941)	- D. M. M. M.	hiol's Name Till		-5501	1-1-04
Planning Official (city)	Print Planning Office	cial's Name Title	Phon	ie	Date



Department of Environmental Quality Northwest Region North Coast Branch Office

65 N Highway 101, Suite G Warrenton, OR 97146 (503) 861-3280 FAX (503) 861-3259

July 15, 2003

Steve Olstedt Olstedt Construction, Inc. P.O. Box 2363 Gearhart, OR 97138

IMPORTANT DOCUMENT – PLEASE READ CAREFULLY -This is not a construction permit-

RE:

Site Evaluation Results - Site Approvals With Conditions

T7N, R10W, S34C; Tax Lot Nos. 1800 & 1900, Clatsop County

Sandy Ridge Subdivision, Proposed Parcels 1, 2, 3, 4, 5, 11, 12, 13, 14 & 15

Dear Steve Olstedt:

The above-described properties were evaluated for suitability of on-site sewage disposal systems on the following date(s): June 5, 2003. Based on the evaluation, the following on-site sewage disposal systems are approved for Lots 1, 2, 3, 4, 5, 11, 12, 13, 14 & 15:

Initial system:

Bottomless Sand Filter

Replacement system:

Bottomless Sand Filter

Details of the site evaluation are included in the Site Evaluation Report that is enclosed. The Site Evaluation Report also includes more specific information and further conditions of site approval.

Next Step - Applying for a Construction/Installation Permit

When you are ready to proceed with system construction, contact this office to get a permit application package. The permit must be issued by DEQ before you can start construction.

Request for Site Evaluation Report Review or Request for Variance

If you believe that an error was made in the evaluation of your property, you may apply for a Site Evaluation Report Review within 30 days of the site evaluation report issue date at a cost of \$440. If you would like to apply for a Variance from one or more of the On-Site Sewage Disposal rules, you may apply for a Variance at a cost of \$1340. If you are interested in either of these actions, please contact the undersigned for more details before you proceed.

Best wishes on a successful project. If you have any other questions about this report, please feel free to call me at (503) 861-3280.

Sincerely.

Connie M. Schrandt

Natural Resource Specialist

Enc: Site Eva

Site Evaluation Report

Site Evaluation Report For On-Site Sewage Disposal System Suitability

Site Location: T7N, R10W, S34C; Tax Lot Nos. 1800 & 1900, Clatsop County

Sandy Ridge Subdivision, Proposed Lots 1, 2, 3, 4, 5, 11, 12, 13, 14 & 15

Applicant: Steve Olstedt

Date(s) of Site Evaluation: June 5, 2003 DEQ Onsite Specialist: Connie M. Schrandt

Date of Report: July 15, 2003

General Description of Site Evaluations

Sewage contains disease-causing organisms and other pollutants that can cause adverse impacts to human health and the environment. An on-site sewage disposal system must treat and dispose of sewage in a way that will not cause a public health hazard, contaminate drinking water supplies, or pollute public waters.

Proper treatment in an on-site system begins with primary treatment in the septic tank. The septic tank separates the solid particles in sewage from the liquid. The liquid that comes out of the septic tank is called effluent. The effluent may then be dispersed in the soil for further treatment or discharged into a secondary treatment device such as a sand filter or aerobic treatment unit prior to dispersal in the soil. For proper treatment, the effluent must slowly infiltrate into the underlying soil. Dissolved wastes and bacteria in the effluent are trapped or adsorbed to soil particles or decomposed by microorganisms. This process removes disease-causing organisms, organic matter, and most nutrients. Effluent that comes to the ground surface (through poor soils or other problems with the system) can be a possible health hazard because it may still contain some disease-causing organisms. Soil that drains too quickly may not give the effluent enough treatment and may result in groundwater contamination.

The purpose of the evaluation was to locate suitable soils in an area that is large enough for both the initial drainfield area and the replacement drainfield area. The criteria used for this site evaluation can be found in Oregon Administrative Rules (OAR) 340-071.

Soil test pits and other site features were evaluated during the site visits on June 5, 2003. For each lot, the following features were evaluated:

- Soil types how well they drain and other evidence of good soil structure for treatment
- Depth to groundwater
- Wells located on the site or adjacent sites.
- Slopes, escarpments, ground surface variations, topography
- Creeks or springs on the site or adjacent properties
- Whether the soils have been disturbed
- Setbacks from property lines, buildings, water lines, and other utilities
- Other site features that could affect the placement of the on-site system.



Approved Systems

Based on the evaluation of the site and soil conditions, the following on-site sewage disposal systems are approved for Lots 1, 2, 3, 4, 5, 11, 12, 13, 14 & 15:

Initial System: System

System Type: Bottomless Sand Filter

Minimum Septic Tank Size: 1000 gallons Minimum Dosing Tank Size: 500 gallons

Distribution Method: Low Pressure

Minimum Filter Bottom Area: 360 square feet

Maximum Filter Depth: Varies *

Replacement System:

Same as for Initial System.

* Maximum filter depths, as measured from the highest point of elevation within the approved area on each lot, are as follows:

Lots 2, 3, 4 & 12 - 36 inches

Lots 1 & 11 - 33 inches Lots 5, 14 & 15 - 28 inches

Lot 13 - 31 inches

Attached are the Field Worksheets and Plot Plans that show the approved areas and other details of the site evaluation on each lot.

Site Limitations

Many sites have limitations that will affect either the location of the on-site sewage system or the type of system that can be allowed. The following describes the limitations found in this evaluation.

Clatsop Plains Special Considerations

Rule Requirement: OAR 340-071-0400(5)

<u>Description:</u> For properties within the area generally known as the Clatsop Plains and of less than one acre, the approved on-site system shall be either a sand filter system or a pressurized distribution system with a design sewage flow not to exceed 450 gallons per day.

Site Conditions Observed: Lots 1, 2, 3, 4, 5, 11, 12, 13, 14 & 15 are each less than one acre in size.

Permanent groundwater level is too close to the ground surface

Rule requirement: OAR 340-071-0290(2)(b)(A). For approval of low-pressure distribution systems, a minimum separation of 48 inches is required between the bottom of the disposal trenches (or seepage bed) and the upper level to which permanent groundwater is expected to rise. A bottomless sand filter system can be approved on sites with a minimum separation of 24 inches between the bottom of the filter and the upper level of permanent groundwater.

Description: Treatment of sewage occurs in the soils around the drainfield area. If groundwater comes in contact with the sewage before it has been adequately treated in the soils, there are two concerns: 1) very little treatment occurs in saturated soils – the presence of air is required for good treatment; and 2) sewage may be "forced" to the surface where it poses a potential public health hazard. "Permanent groundwater" refers to a water table or saturated zone that exists year-round.



<u>Site conditions observed:</u> The required 48-inch separation described in the rule cannot be met on **Lots 1, 2, 5, 11, 13, 14 & 15** due to shallow groundwater levels, as determined by augering from the bottom of the test pits and measuring the depth to conditions associated with saturated soils and groundwater. Only bottomless sand filter systems can be considered for these lots.

Setback from property lines and building foundations

Rule requirement: Table 1, OAR 340-071. 10' setback required.

<u>Description:</u> The required property line setback allows construction of the system without trespass or damage to neighboring properties. The foundation line setback prevents too much liquid from causing the soil under the building to settle and potentially damage the building. <u>Site Conditions Observed:</u> Although soil conditions on **Lots 3, 4 & 12** may be adequate for low-pressure distribution systems with respect to permanent groundwater levels, the size and configuration of these lots in relation to development plans and maintaining required setbacks are such that only bottomless sand filter systems will be considered. Less disposal area is required for sand filter system approval.

Additional Conditions of Site Approval

- 1. Lots 1, 2, 3, 4, 5, 11, 12, 13, 14 & 15 are each approved for the type of on-site sewage disposal system described above. Peak sewage flow into each system is limited to a maximum of 450 gallons per day, with an average sewage flow of not more than approximately half of the peak sewage flow. This is normally sufficient to serve a single-family dwelling with a maximum of four bedrooms. Premature failure of the treatment system may occur if either of these flow limits are exceeded. If for some reason domestic household water use is expected to exceed these flows, it may be advisable to increase the size of the treatment system.
- 2. Any alteration of natural soil conditions (i.e. cutting or filling) in the acceptable area may void this approval.
- 3. Both the initial and replacement disposal areas are to be protected from traffic, cover, development or other potential disturbance of natural soil conditions.
- 4. The area must not be subjected to excessive saturation due to, but not limited to, artificial drainage of ground surfaces, roads, driveways and building down spouts.
- 5. This approval is given on the basis that each lot described above will not be further partitioned or subdivided.

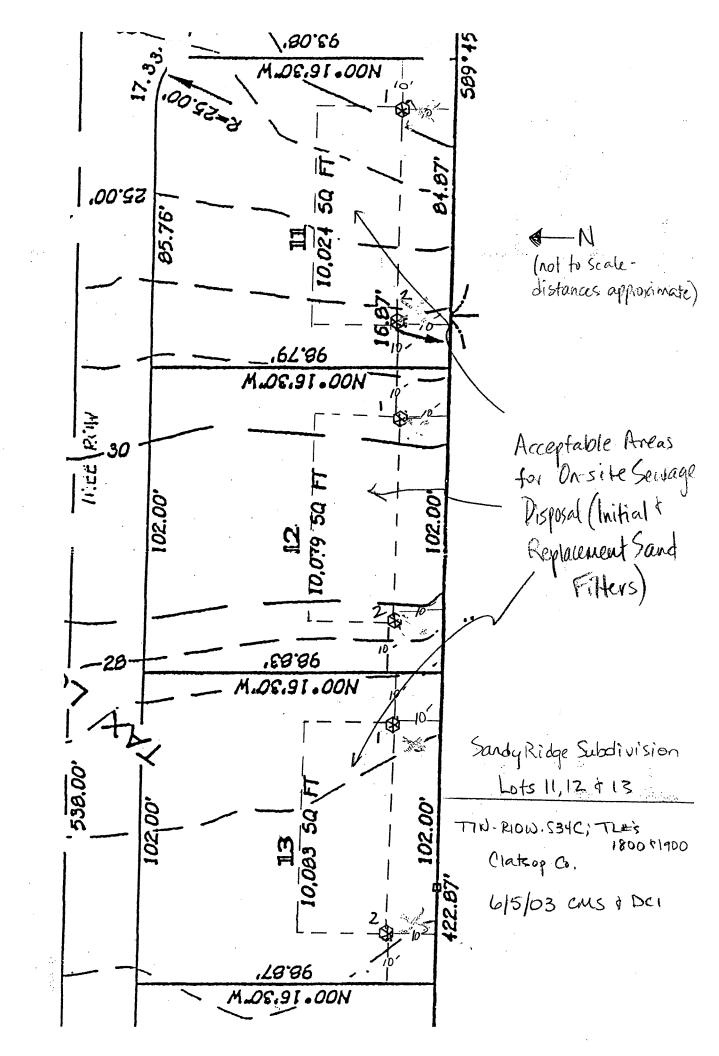
These site approvals are valid until each system is constructed in accordance with a DEQ construction permit. Technical rule changes shall not invalidate these approvals, but may require use of a different kind of system. If there is a technical rule change affecting these site approvals, the Department will attempt to notify in writing the current property owner as identified by the county assessor's records. The site approval runs with the land and will automatically benefit subsequent owners.

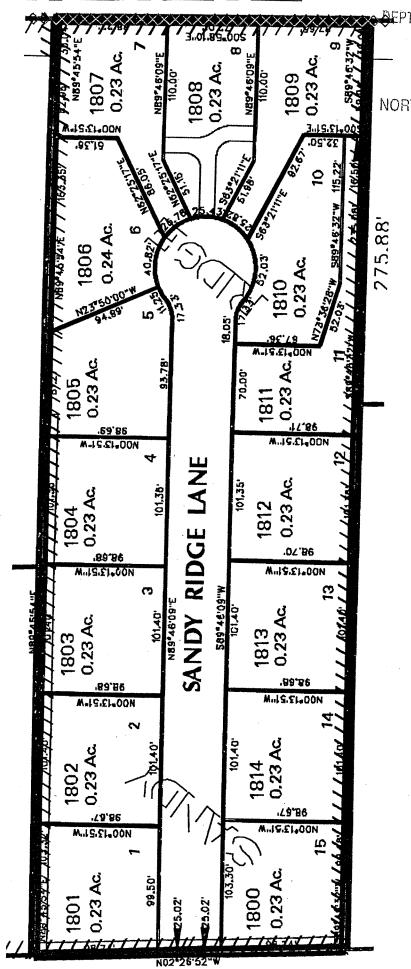
Attachment: Field Worksheets and Plot Plans



FIELD WORKSHEET

			10W534C; TLTE/18M + 1900-Lots 5711 Clatsop Co Evaluator CNSD Sandy Ridge Subd. Date 6-5-03 Parcel Size~10000 sq	
-	Depth (in.)	Texture	Soil Matrix Color and Redoxymorphic Features, %Coarse Fragments, Roots, Pores, Structure, Layer Limiting Effective Soil Depth, etc.	
<u>Pit</u> +5	1 <u>0-5</u> 5-62	rockyfill Fs	2,5 4 ⁵⁻⁴ /3	_1
<u>Pit 2</u>	0-6 6-52 52-58	fs_	104R ² /2, 1 organics 2.545-4/3 2.545-4/2	2
Pit :	D-24 24-57 57-72	-fs	104R ² /z, 1 organics 2.545-4/3 2.545-4/z, augered to Standing water @ 172" bys	
			ed dure-cleared lonaded - adj. wetlands	
Othe	utility lines lines and u	s. Septic Tank/ltility lines.	100 ft. from groundwater, 50 ft. from surface water and 10 ft. from foundations, property lines at Dosing Tank to be 50 ft. from any groundwater or surface water and 5 ft. from foundations, property lines at the control of black sands (10 yr 2/2) Must be to installation of Sand filter systems	erty
• • • • • • • • • • • • • • • • • • • 			SYSTEM SPECIFICATIONS	
Syst Sept Bott Spec	tem Size (bot tic Tank Size tom of sand ficial Condition Watertight required. A detailed holes) is rexisting a Honor all Disposal a described recommend a	tom surface (Min. Requiliter not to ensite the maintenant) district development with a site developmen	Design Flow: 450 gpd area): 360 sq. ft. OR 70 x 18 container ired): 1000 gallons Dosing Tank Size (Min. Required): 500 gallo exceed 28(10+5) inches below ground surface 33(10+11) ce risers required on Septic Tank and Dosing Tank; 2 compartments may also be pment plan of proposed system construction (located within area of approved test a permit application. The plan must show proposed system placement as it relates sed structures, wells, waterways, roads and parking areas. backs (OAR 340-071, Table 1) and required separation distances. tept free of cover, traffic, development or other potential disturbance of soil conditions system following permit issuance. Please call 503-861-3280 if you have question	st s to litions





EPT. OF ENVIRONMENTAL QUALITY RECEIVED

JUL 1 5 2003

NORTH COAST BRANCH OFFICE WARRENTON