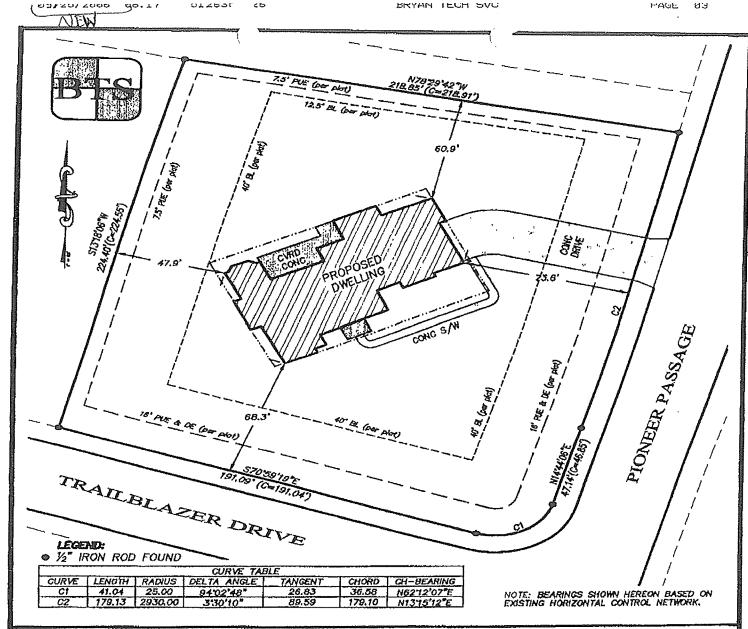
BASTROP COUNTY HEALTH & DEVELOPMENT SERVICES

806 Water Street Bastrop, TX 78602

LICENSE TO OPERATE AN ON-SITE SEWAGE FACILITY Permit #: 2006-1854 Permit Date: 01/03/07 Location: 154 PIONEER PASSAGE, Bastrop TX 78602 Phone: (512) 281-1200 Owner: NALLE CUSTOM HOMES, Mailing address: 103 WEST 1ST STREET Elgin TX 78621 A final inspection for the on-site sewage facility installed at the above-described location in Bastrop County has been completed. It is our determination that the system has been installed in basic compliance with the rules set forth under Title 30 TAC, TCEQ Chapter 285, On-Site Sewage Facilities and the Bastrop County Order for On-Site Sewage Facilities. System Type: AEROBIC W/SOMAU Installer: DAN MATHES, 058739 Maximum Water Usage 300 Gallons Per Day Aerobic Treatment Unit Requiring An On-Going Maintenance Contract? NO (to be completed if applicable) Brand Name: AQUA KLEAR Maintenance Provider: DAN MATTHES, OS&739 Maintenance Contract Beginning Date: 3/30/09 Expiration Date: 3/30/09 If you or your Maintenance provider should disagree with these dates, please contact our office. Also, please be reminded that thirty (30) days prior to the contract expiration, you must submit another contract that must

be effective for at least one (1) year.

BRYAN TECH SVC



THIS IS TO CERTIFY THAT, ON THIS DATE, A TRUE AND ACCURATE SURVEY WAS MADE ON THE GROUND UNDER MY SUPERVISION OF PROPERTY LOCATED AT NO. 154 PIONEER PASSAGE IN BASTROP COUNTY, TEXAS, DESCRIBED AS FOLLOWS: LOT 7, BLOCK B, THE COLONY, SECTION 6A, A SUBDIVISION IN BASTROP COUNTY, TEXAS, ACCORDING TO THE MAP OR PLAT RECORDED IN CABINET 4, SLIDE 146B-147A OF THE PLAT RECORDS OF BASTROP COUNTY, TEXAS.

FLOOD NOTE:

0372072000

THE PROPERTY DEPICTED HEREON IS NOT WITHIN A SPECIAL FLOOD HAZARD AREA AS DETERMINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY, THE FLOOD AREA BEING IDENTIFIED ON F. I. R. M. PANEL NO. 48021 C0125 C EFFECTIVE 8-19-91 LOCATED IN ZONE

NOTE: THIS TRACT IS SUBJECT TO EASEMENTS, COVENANTS, CONDITIONS, RESTRICTIONS AND RIGHT TO CREATE ADDITIONAL PUBLIC UTILITY EASEMENTS, IF ANY, ACROSS SUBJECT PROPERTY AS SHOWN IN 4/1468-147A, PRBC.

NOTE: NO TITLE COMITMENT SUPPLIED OR REVIEWED FOR THIS PROJECT, PARTIES TO THIS TRANSACTION ARE RESPONSIBLE FOR VERIFICATION OF ALL EASEMENTS, COVENANTS AND CONDITIONS WHICH MAY AFFECT THIS TRACT BUT ARE NOT SHOWN HEREON.

TO: NALLE CUSTOM HOMES

RE: 154 PIONEER PASSAGE, PROJ. NO. 06-494

SURVEYORS CERTIFICATE

THE PLAT SHOWN HEREON IS A TRUE, CORRECT AND ACCURATE REPRESENTATION OF THE PROPERTY AS DETERMINED BY SURVEY, THE LINES AND DIMENSIONS OF SAID PROPERTY BEING AS INDICATED BY THE PLAT; THE SIZE, LOCATION AND TYPE OF BUILDINGS ARE AS SHOWN, ALL IMPROVEMENTS BEING WITHIN THE BOUNDARIES OF THE PROPERTY, SET BACK FROM THE PROPERTY LINES THE DISTANCES INDICATED, THERE ARE NO ENGROACHMENTS, CONFLICTS OR PROTRUSIONS, EXCEPT AS SHOWN HEREON, AND SAID PROPERTY HAS ACCESS TO AND FROM A DEDICATED ROADWAY.

SEPTEMBER 13, 2006

ZIVAUTOCAD/PROJECT DRAWINGS/2006 DRAWINGS/2006/06-494-PLOTAteg 9/14/2006 1/46/97 PM CDT

BRYAN TECHNICAL SERVICES, INC. P. O. BOX 1371 TAYLOR, TEXAS 76574 512-365-2524 512-365-2526 (Fax) surveying@austin.nr.com

Brian K. Wendland, R.S. Septic Designs 2105 Murray Ave. Rockdale, Texas 76567 (512) 826-8425

November 24, 2006

Name: Nalle Custom Homes Site Address: 154 Pioneer Passage

City: Cedar Creek/Bastrop

Mailing Address: 103 W. 1st St. Elgin, TX 78621

Phone: (512) 845-6395

County: Bastrop

Subdivision: Yes---Lot 7—Block B----The Colony

Area of lot: $\sim 1.0 \pm Acres$ Bedroom Number: 4

Square feet of heated space in house: less than 3500 square feet

Water usage per day: 300 gallons

Effluent load rate: max. of .064gal./sq.ft./day

Water Saving Devices Installed: Yes

New Construction: Yes

Remodel? No Well on site? No

Presence of sharp slopes and/or break in grade: No

Lakes, ponds, streams on site: No Presence of 100-year floodplain: No

Slope of disposal area: 1 % Presence of Easements: YES

Installer:

Dan Matthes

OS 8739

Phone: (512) 284-0447

Required OSSF Calculations

Required surface area for spray irrigation (minimum):

Whereas: Required surface area in square feet for spray irrigation

equal to:

Q/Ri

Where Q = estimated daily water usage in gallons Ri= effluent loading rate in gal/sq. ft./day

Therefore: 300 /. 064=4688 sq. ft. of surface application area required.

WHEREAS:

32' Radius of 3 spray "half-circles"

Of half-circles: 3 (1608 ft² per half-circle)

Area of circle (in square feet) = (radius x radius)(3.1416) Therefore: $(32^{\circ}x32^{\circ})(3.1416)/2 = 1608$ sq. ft. per half-circle

1608 ft² per half-circle X 3 half-circles = 4824 ft² for 3 half-circles

Therefore: = 4824 total square feet of application spray area designed

Dosing Rate

three spray nozzles used in this design—every nozzle is a low angle trajectory nozzle and EYERY NOZZLE is a Nelson #8 nozzle.

#8 nozzle (3 of them spraying 32' radius) 3.2 gpm (each nozzle) @ 35 psi = 9.6 gpm

Dosing Duration

300 gallons per day / 9.6 GPM dosing rate = ~ 31.25 minutes (dosing duration)

Verification of Proper application rate of effluent per designed spray area

(Note: all nozzles are the same type and radius nozzles and all nozzles are spraying a 180° pattern—therefore all nozzles are "lumped into" the equation below):

(three nozzles)---will spray for 31.25 minutes X 9.6 GPM = 300 gallons distributed / 4824 square feet spray application area = 0.062 gallons of effluent per square feet of application area / day-----OK

NOTE: The rate of application of effluent SHALL NOT exceed .064 gallons per day per square foot.

Design Parameters

Treatment Unit:

Aqua-Klear 500 GPD unit(Model # AK5BESIDE2)

Aeration Chamber:

included in treatment unit included in treatment unit

Pre-treatment tank required:

included in treatment unit

Pump Tank: Pump:

1/2 HP Goulds Model # 16SE0511 (115 Volt)

Sprinkler nozzles:

Nelson # 8 low angle trajectory spray nozzle (12°)

Sprinkler drive units:

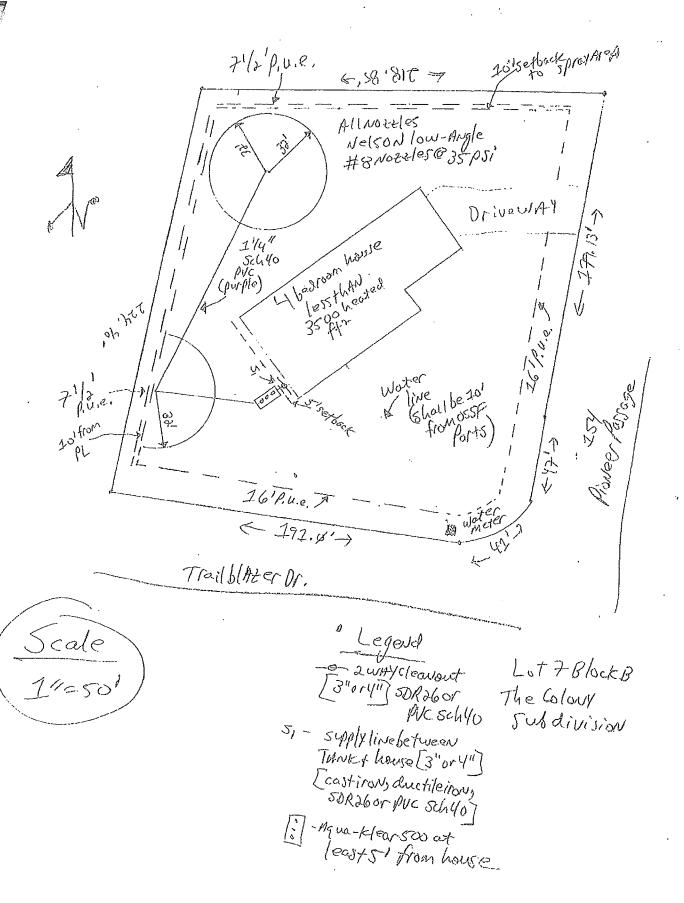
Nelson-Pro model #6000

Chlorination:

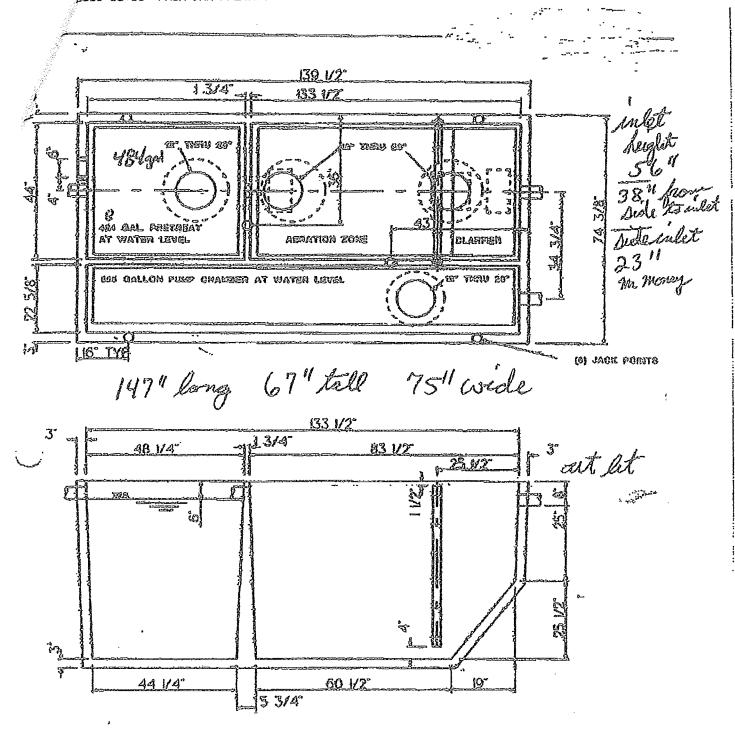
liquid type outside pump chamber

Supply Line Diameter:

11/4"



.



recoteso RASLWALLON Itterere normal

Tensas Machine & Manufacturi

det eta p etuer Test anaeeldi isolieges