KENDALL COUNTY

Department of
DEVELOPMENT MANAGEMENT
201 East San Antonio Street, Suite 100
Boerne, Texas 78006
Telephone: (830) 249-9343 Ext. 201

FILE # S 5936

SEPTIC FORM

Private Sewage Facility (Licensed) in Kendall County, Texas

APPLICANT INFORMATION:

Property Owner (Licensee) Ann C. Stewart Contractor Paul Whitcraft

Subdivision or Location 117 Ancient Coast Rd.

Total Area Sq. Ft. _____ or Arces 8.27

No. Bedrooms 2 + 1 or Sq. Ft. of House 1500-1588 Gal/Day 360

Perc Rate .064 Class No. IV Trench Req. Sq. Ft. 5625

or Bed Req.Sq _____

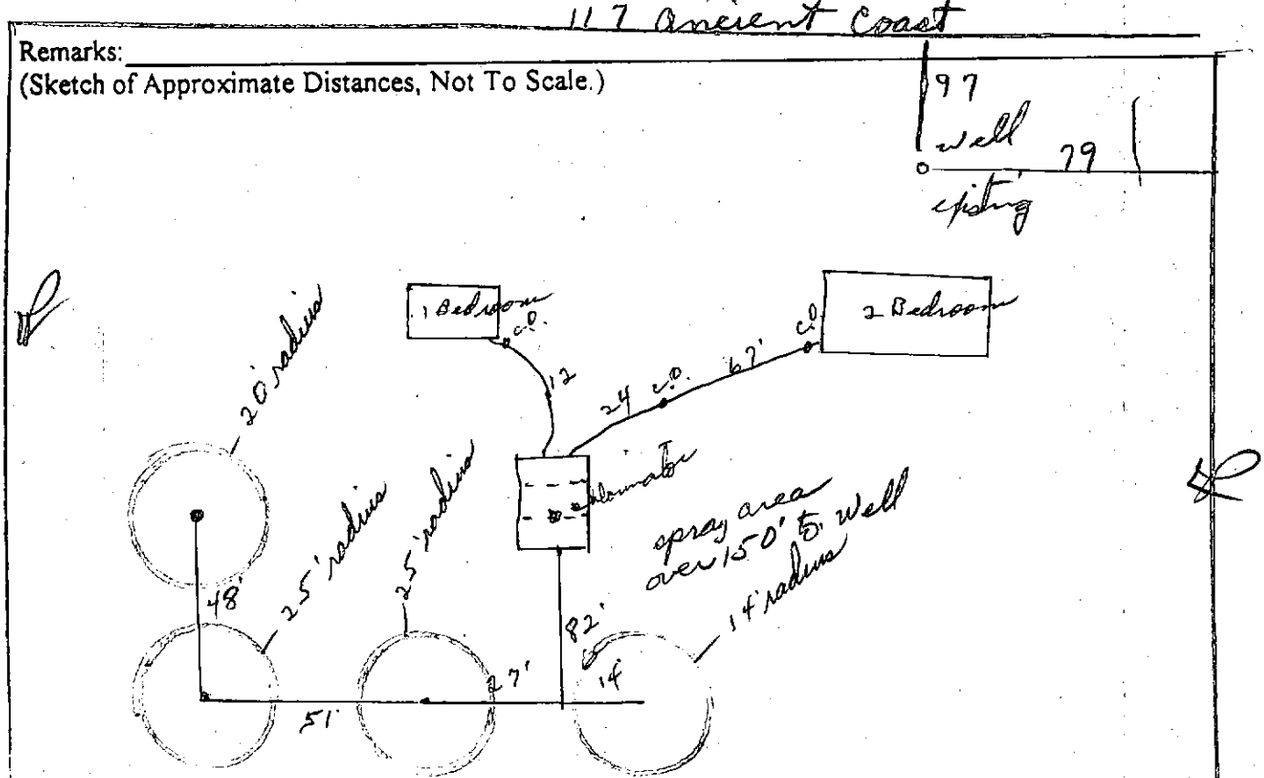
Gallon Capacity Req. for Concrete Septic Tank 500 500 500 aqua safe

Installed: Length _____ Width _____

Sq. Ft. 5799 Bed _____ Trench _____

Remarks: 117 Ancient Coast

(Sketch of Approximate Distances, Not To Scale.)



The County of Kendall, The Texas Department of Health, or their agents or designees, makes no representation that facilities herein licensed will provide satisfactory service to the premises served. It will be the licensee's responsibility to make any changes or modifications which operating experience may show to be necessary in order for these facilities to provide satisfactory service. Septic distances meet minimum Texas Department of Heath separation distances in most instances. Some renovations may be less if repaired or replaced in the same general area as the pre-existing system being renovated.

PERMIT (LICENSE) GRANTED AND APPROVED THIS DATE 2-6-02

Sanford Jennings
Designated Representative

(Modified TNRCC Rules Table X for Kendall County)*
Minimum Required Separation Distances For On-Site Facilities❶

FROM	TO: Sewage Treatment Tanks or Holding Tanks	Soil Absorption Systems, & Unlined ET Beds	Lined Evapotranspiration Beds	Sewer Pipe With Watertight Joints	Surface Irrigation (Spray Area)	Drip Irrigation
Public Water Wells❷	50	150	150	50	150	150
Public Water Supply Lines❷	10	10	10	10	10	10
Private Water Well	50	150*	150*	50*	100	150*
Private Water Well (Pressure Cemented or Gravity Cemented with 3" larger hole than casing to 200 f t. or to water bearing unit)	50*	100*	100*	20*	100*	100*
Private Water Well (Pressure Cemented with 3" larger hole than casing hole to 200 ft. or to water bearing unit)	50*	50*	50*	20*	50*	50*
Stream, Ponds, Lakes, Rivers (Measured From Normal Pool Elevation and Water Level); Salt Water Bodies (High Tide Only)	50	75, LPD (Secondary Treatment & Disinfection) - 50	50	20	50	25 when R≤0.1 75 when R >0.1 (With Secondary Treatment & Disinfection - 50)
Foundations, Buildings, Surface Improvements, Property Lines, Easements, Swimming Pools, and Other Structures	5	5	5	5	No Separation Distances Except: Property lines - 10 Swimming Pools - 25	No Separation Distances Except❹ : Property Lines - 5
Sharp Slopes, Breaks	0 (special support may be required for zero separation distances)	25	5	10	25	10 when R≤0.1 25 when R>0.1
Edwards Aquifer Recharge Features (See Rules & Regulations chapter 313 of this Title Relating to Edwards Aquifer)❸	50	150	50	50	150	100 when R≤0.1 150 when R>0.1

❶All distances measured in feet, unless otherwise indicated.
❷For additional information or revisions to these separation distances, see Rules & Regulations in chapter 290 of this Title relating to Water Hygiene.
❸No OSSF may be installed closer then 75 feet from the banks of the Nueces, Dry Frio, Frio, or Sabinal Rivers downstream from the northern Uvalde County line to the recharge zone.
❹Drip irrigation lines may not be placed under foundations.

ga/dev mgt/4/14/99

Kendall County Courthouse

Robert D. Hall, R.S. 1971
36 Blaschke Rd
Comfort, TX 78013
(830-995-2781 Fax: 830-995-4080)

OSSF DESIGN & INSPECTION

Application #: **Date: December 3, 2001**

Owner & Address	**Agent & Address**
Anne Stewart	
115 Ancient Coast Rd.	
Alamo Springs	
Fredericksburg, TX 78624	

Property Description

Location: Kendall Co., Alamo Springs LOT 3 ancient coast

Plat Provided: ( )Yes (x)No Water System: ( )Public (x)Private

Acreage (approximate): 8.27 Drainfield Slope (approximate): <3 %

Does drainfield slope comply with TWC §285.30(g)?: (x)Yes ( )No

Well Log required? ( ) Yes (x) No Well Log provided ( ) Yes (x) No

SITE EVALUATION & SOIL ANALYSIS: Bob Hall

Site Limitations **(check all that apply)**

(x) Slope	(x) Property size	( ) Surface water
(x) Setbacks	(x) Suitable Soil Depth	( ) Groundwater
( ) Floodplain	( ) Soil Class	(x) Well location

This site has limitations that arise from the slope, shallow soil and the 150' setback from the location of the well. Avoid trees and remove brush as necessary.

TYPES OF OSSF SUITABLE TO THIS SITE

( ) Standard OSSF ( )Non-Standard OSSF (x) Proprietary OSSF

Describe: Aerobic OSSF with spray disposal will overcome the site limitations.

OSSF DESIGN

FULL DESIGN ATTACHED

Soil Application Rate: 0.064 g/ft²/d **TNRCC Soil Class:** 3 (surface) *(Table I*)*

Wasteload: 360 gpd **Based on:** two, up to 2 br, ≤1,500 ft², w/water saving devices. *(Table III*)*

Treatment type: { }standard { }non-standard {x}proprietary
Disposal type: { }standard {x}non-standard { }proprietary

Proprietary System: Aqua Safe 5+5, 500 gpd, Class 1 aerobic (or equivalent)
Trash Tank: 500 g *(All-in-One unit)*
Aerobic gpd: 500 gpd
Dosing Tank: 500 g - {x}pump

Drainfield:
Surface application area required: 5,625 ft²;
This design: 5,799 ft²
S1: 1,257 ft² r = 20'
S2: 1,963 ft² r = 25'
S3: 1,963 ft² r = 25'
S4: 616 ft² r = 14'

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Designed by: R.S. 1971 **Date:** 12/03/01
Installed & As Builts by: **Date:**
Inspected by: **Date:**

Design based on the best available data and should function properly under normal operating conditions. The designer's liability is limited to the designer's fee.

1. Required Disposal Area
   a. 360 gpd/0.064 g/ft^2/d = 5,625 ft^2 required
   b. Based on: up two, 2 br homes, < 1,500 ft^2 (each), w/water saving devices

2. Disposal Area per this Design (Total Irrigated Area = 4,986 ft^2)
   a. Sprinkler 1: $\Pi(20^2)(^{360}/_{360}) = 1,257$ ft^2
   b. Sprinkler 2: $\Pi(25^2)(^{360}/_{360}) = 1,963$ ft^2
   c. Sprinkler 3: $\Pi(25^2)(^{360}/_{360}) = 1,963$ ft^2
   d. Sprinkler 4: $\Pi(14^2)(^{360}/_{360}) = 616$ ft^2
   e. 20' setback from property lines *(with a timer)*
   f. Final landscaping must prevent runoff or ponding of effluent.

3. Sprinkler Head
   a. Neolson Head 6000, Nozzle 6 gpm (or equivalent)
   b. Maximum inlet pressure = 40 psi

4. Aerobic Unit
   a. High water alarm to be mounted in readily observable location.
   b. Pumps and alarms wired to separate breakers
   c. Aqua Safe, Class 1, 500 gpd treatment capacity, or equivalent.
      This is a 3 chamber, all in one unit:
      1) "trash" tank
      2) 500 gpd aerobic
      3) tablet chlorinator
      4) pump compartment

5. The design of this system was in compliance with:
   a. *Texas Natural Resources Conservation Commission On Site Sewerage Facility (OSSF) Workshops Manual*; TNRCC, 1997.
   b. *Advanced On-site Sewerage Facilities*, Texas Engineering Extension Service, 1992.

6. The installer of this system is required to:
   a. Install the system in accordance with Tx. Dept. of Health and TNRCC regulations, as referenced in item # 5.
   b. Provide a maintenance agreement, copy to be filed with the Kendall County Environmental Health Dept.

7. This system is designed to operate under normal loading and climatic conditions.

8. All "as built" variations of this design must be documented with the Kendall County Environmental Health Dept. by the Installer.

Owner: Anne Stewart
Location: 115 Ancient Coast
Alamo Springs
Fredericksburg, TX 78624

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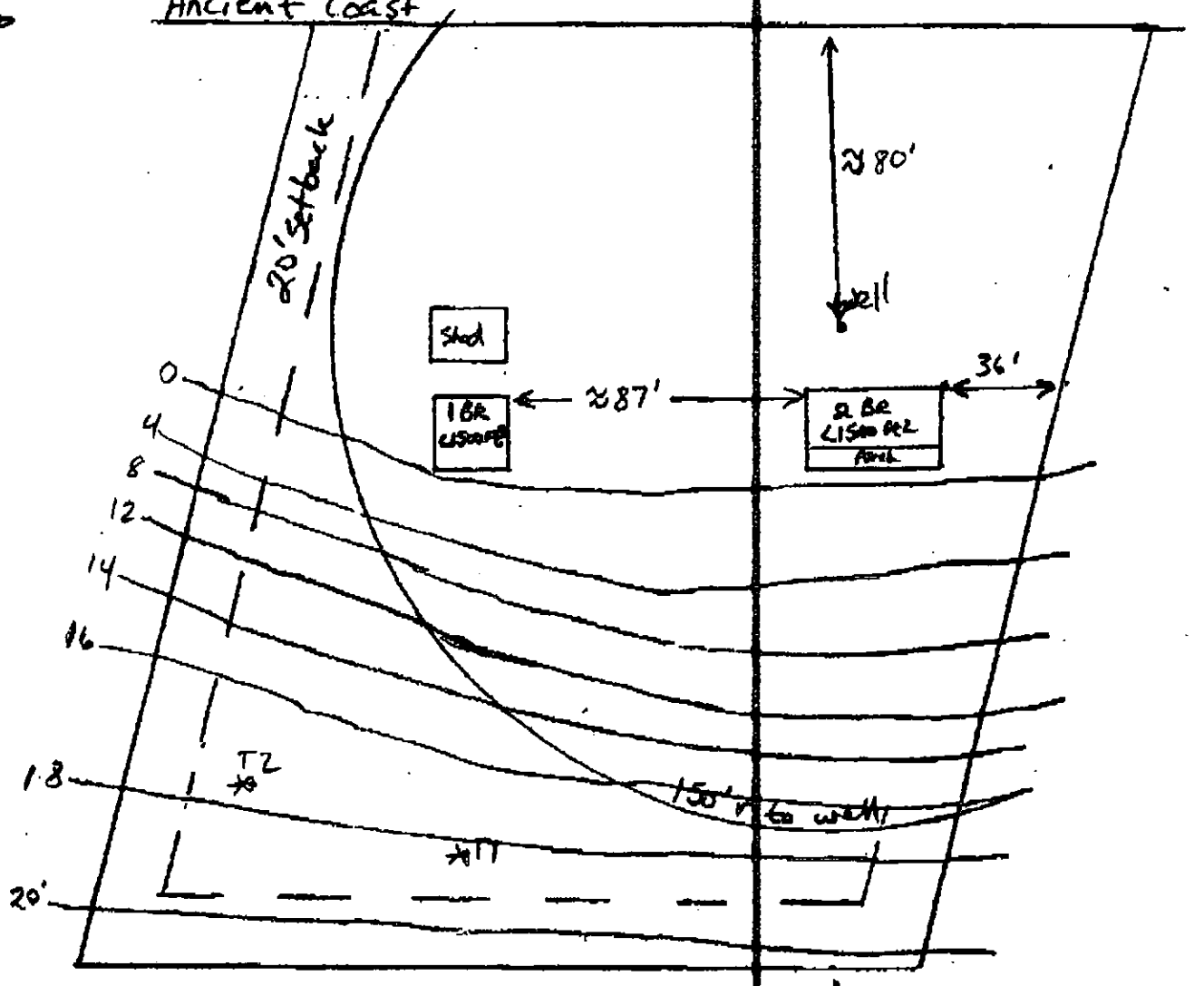

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RS 1971
12-3-01

Note: This is not a survey.
1 mm = 2 Ft

Owner: Anne Stewart
Location: 115 Ancient Coast
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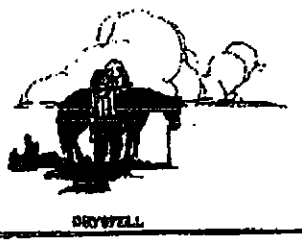
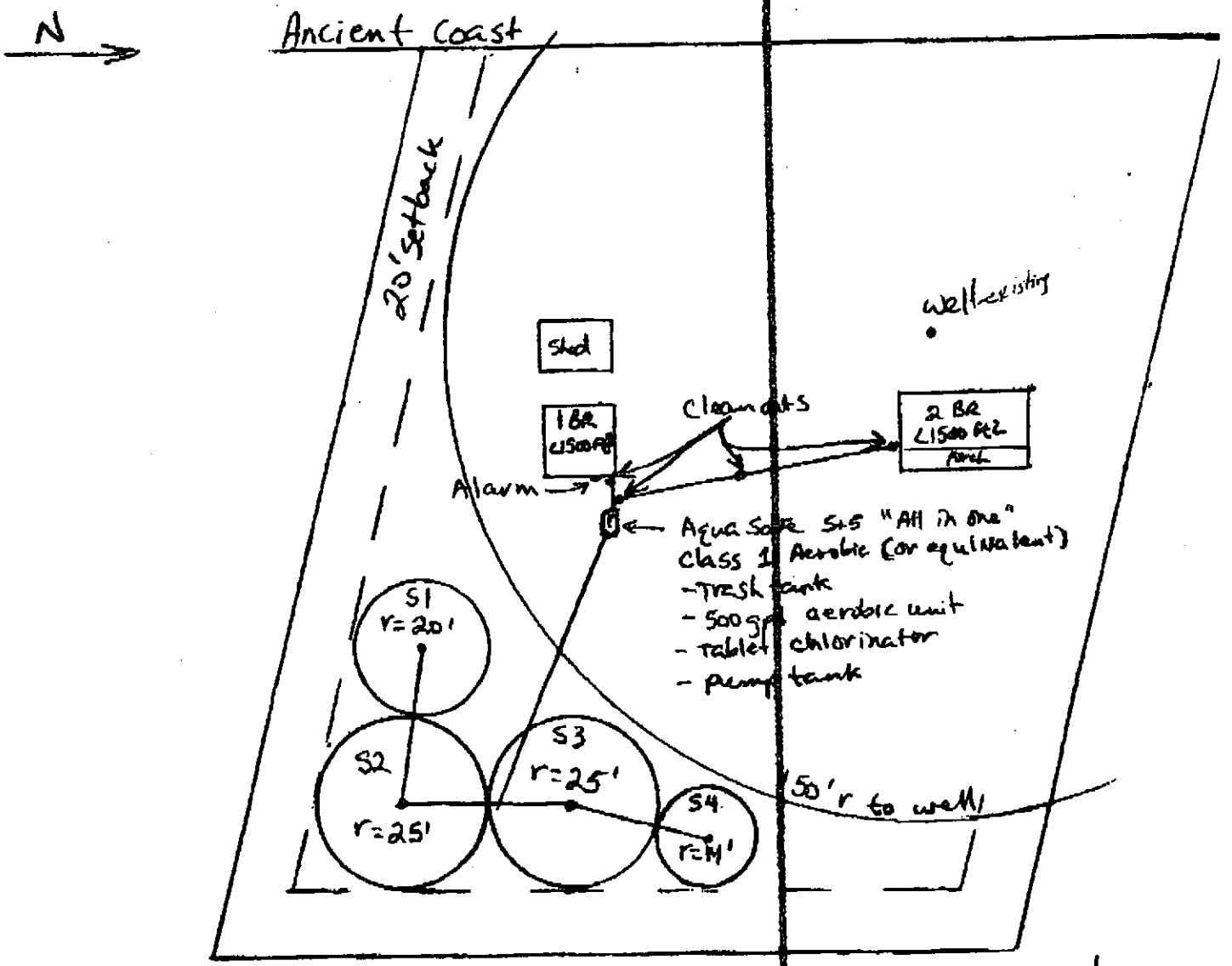
Fredericksburg, TX 78624





Notes:
1. Avoid trees as best as possible.
2. Remove brush where necessary.
3. Pump set on timer - 20' setback required
4. Property lines shown as marked by owner.

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12-3-01

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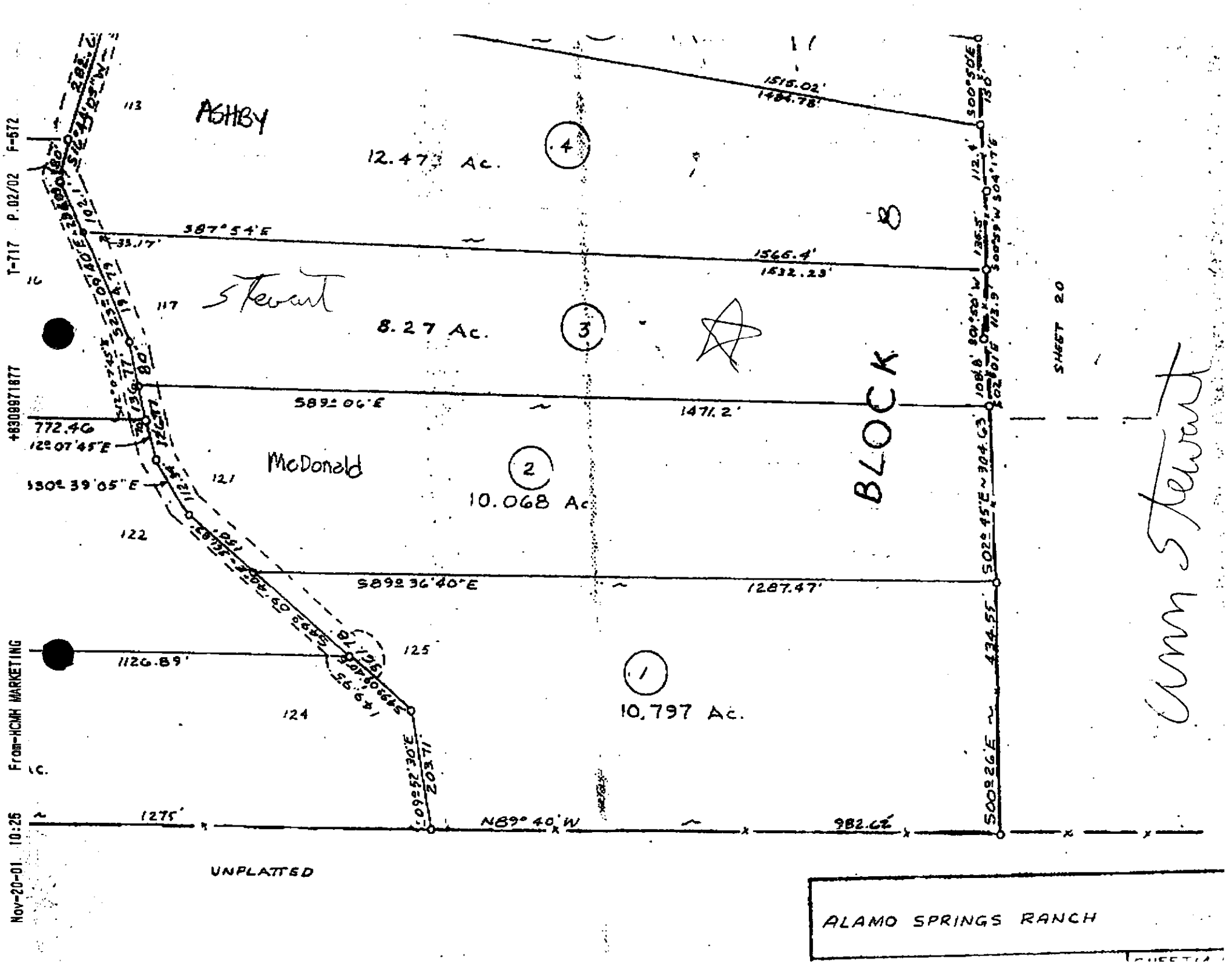
ASHBY
12.473 Ac.
4
1516.02'
1484.78'
S00°50'E
730'
S87°54'E
1566.4'
1532.23'
Stewart
8.27 Ac.
3
BLOCK
8
SHEET 20
S89°06'E
1471.2'
772.46
12°07'45"E
McDonald
2
10.068 Ac
S30°39'05"E
S89°36'40"E
1287.47'
S02°45'E ~ 304.63'
434.55'
1126.89'
125
1
10.797 Ac.
124
S00°26'E
1275'
N89°40'W
982.62'
UNPLATTED
ALAMO SPRINGS RANCH
Ann Stewart
Nov-20-01 10:25 From-HCMH MARKETING +8309971877 T-717 P.02/02 F-572