CROSSROADS ENVIRONMENTAL DESIGNS

P.O. Box 3902
Victoria, Texas 77903
Phone (361) 782-7189 Fax (361) 782-6675

Aerobic Treatment System Design

Prepared for:

Hugh Milton McLeod
5704 Old Yoakum Road
Cuero, Texas 77954

Design #: 804
Installer: Kelli Coldewey, OS8881
Date: May 4, 2005

By:

Kelli Coldewey, R. S.
Professional Registered Sanitarian
Registration #3650

Property Owner: Hugh Milton McLeod
Legal Description of Property: Rolling Oaks Subdivision, Tract 8

A. Waste Water Load:

A 3 bedroom 3653 SF house with water saving devices.
Waste Water Load = 360 GPD

B. Topography:

Slope = Slight

C. Proposed Treatment Facility:

- Aqua Aire AA500 4075 Aerobic Treatment system with surface disposal of effluent using K-Rain Pro Plus Sprinkler Heads with low angle nozzles. (No brand substitution without written approval of designer.)
- Capacity: 500 gallons per day.
- The chlorinator is built into the system.

D. Supply Line:

1" SCH 40 PVC

E. Application Area:

Waste Water Load / Maximum Application Rate = Minimum Application Area
360 / 0.045 = 8,000 SF

F. Disposal Field:

Use 2 K-Rain Pro Plus Sprinkler Heads with nozzles at 40 PSI as follows:
Nozzles #1 & 2:
Type: #6
Spray Angle: 360°
Spray Radius: 38'

Total application area oversized to **9,068 SF**.



G. Pump Requirements:

2 nozzles at 6.5 GPM per nozzle = 13 Total GPM.
Use the Sta-Rite 20 GPM pump set to discharge between midnight and 4:00 AM.
Float settings as follows:
Pump Float at 25"
Override Float at 36"
Alarm Float at 39"

H. Vegetation:

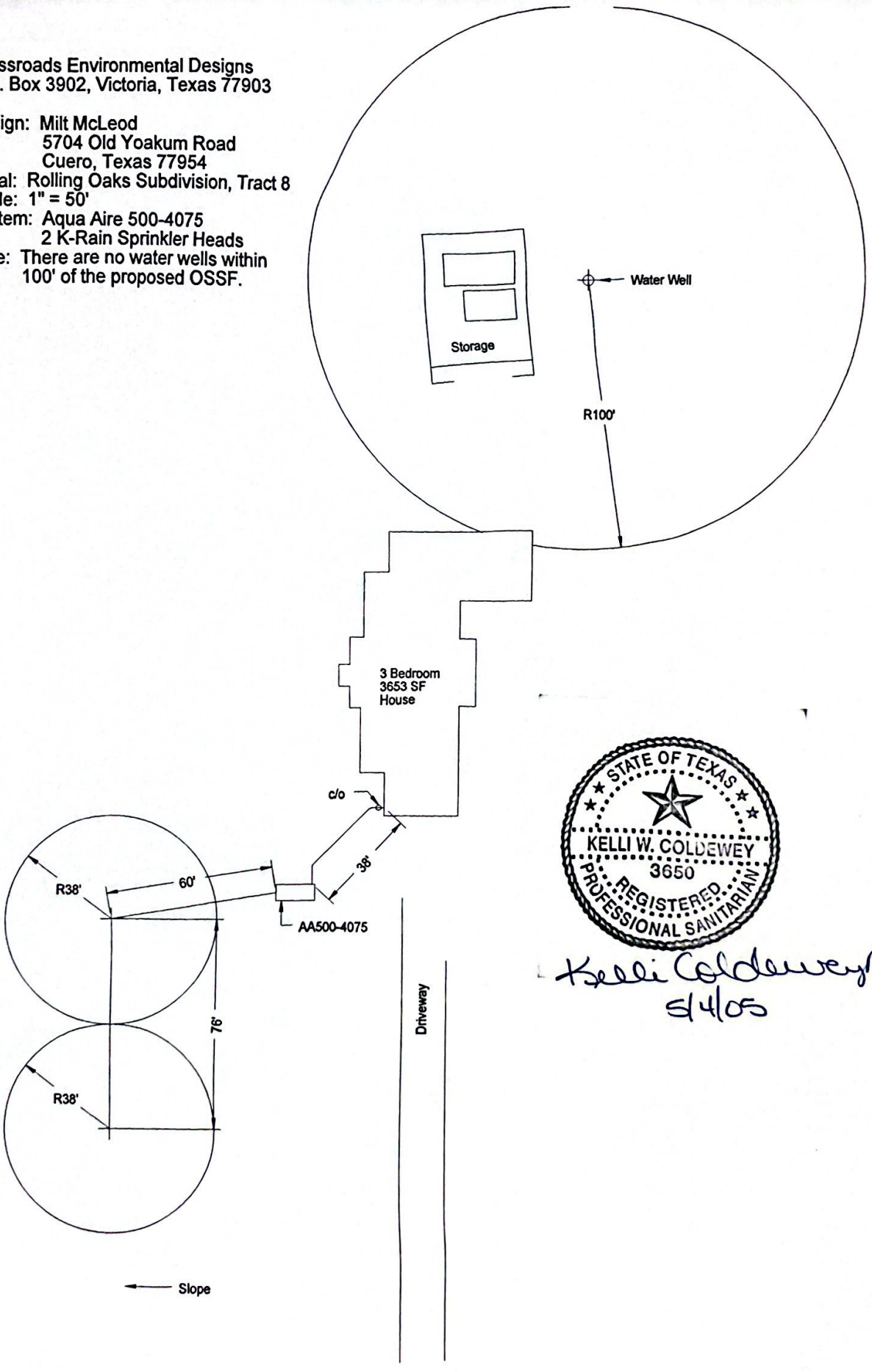
Current grass is to remain on surface. Any bare ground must be seeded or covered with sod prior to system start up.

Kelli Coldewey R.S. 5/4/05

Kelli Coldewey, R.S. – Registered Professional Sanitarian – Texas Registration #3650 Date

Crossroads Environmental Designs
P.O. Box 3902, Victoria, Texas 77903

Design: Milt McLeod
5704 Old Yoakum Road
Cuero, Texas 77954
Legal: Rolling Oaks Subdivision, Tract 8
Scale: 1" = 50'
System: Aqua Aire 500-4075
2 K-Rain Sprinkler Heads
Note: There are no water wells within 100' of the proposed OSSF.



STATE OF TEXAS
KELLI W. COLDEWEY
3650
REGISTERED
PROFESSIONAL SANITARIAN

Kelli Coldewey RS
5/4/05