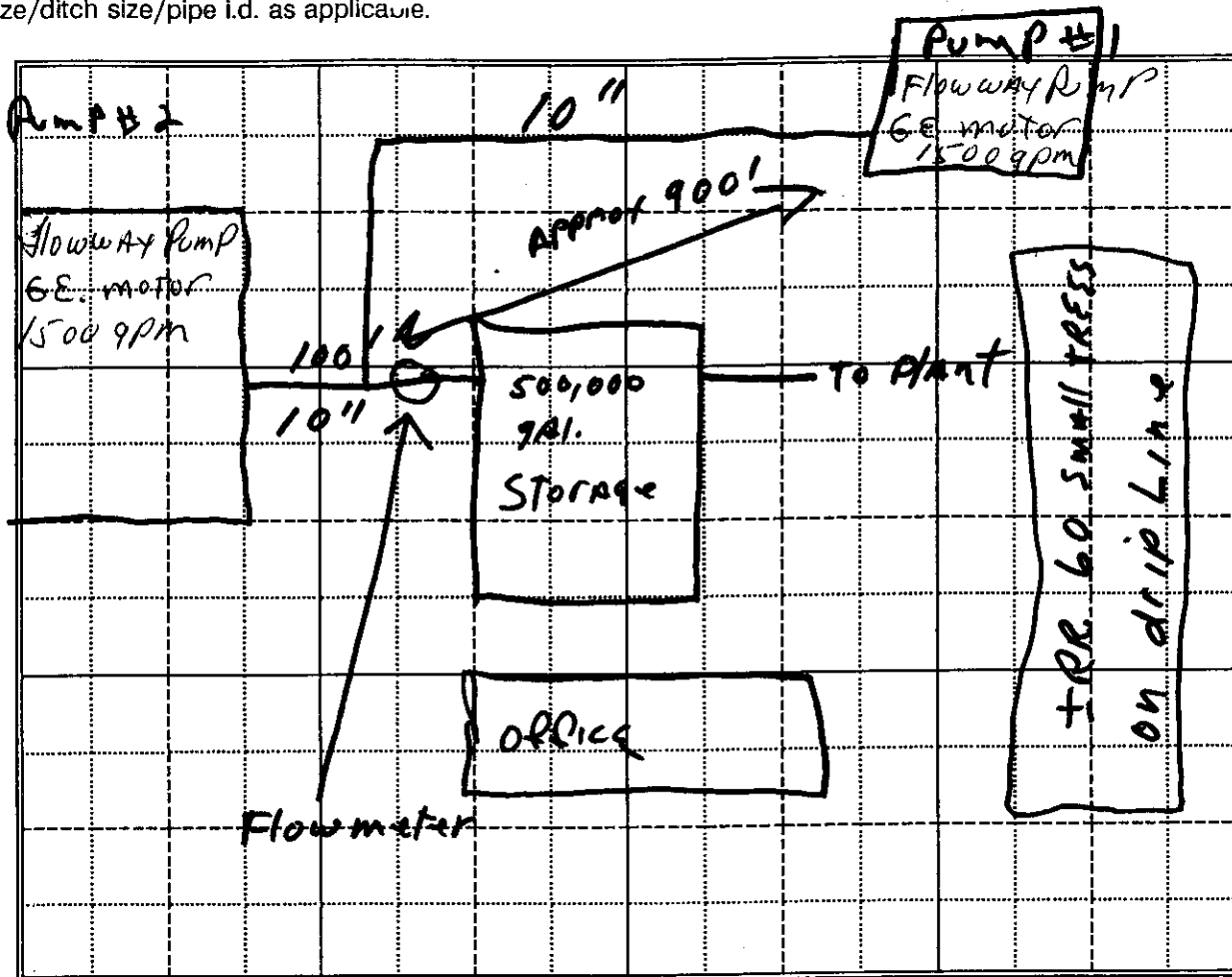


[illegible]

3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe i.d. as applicable.



Scale: 1" = _____

____ Copy of USGS Quadrangle Attached Showing location(s) of point(s) of diversion and place(s) of use (required).

____ Aerial Photo Attached (required for irrigation of 10+ acres)

____ Photo of Diversion and System Attached

4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
#2	GE	150	0556071025	Flowway	10" Type DKM
#1	GE	150	1256012024	Flowway	10"

*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date

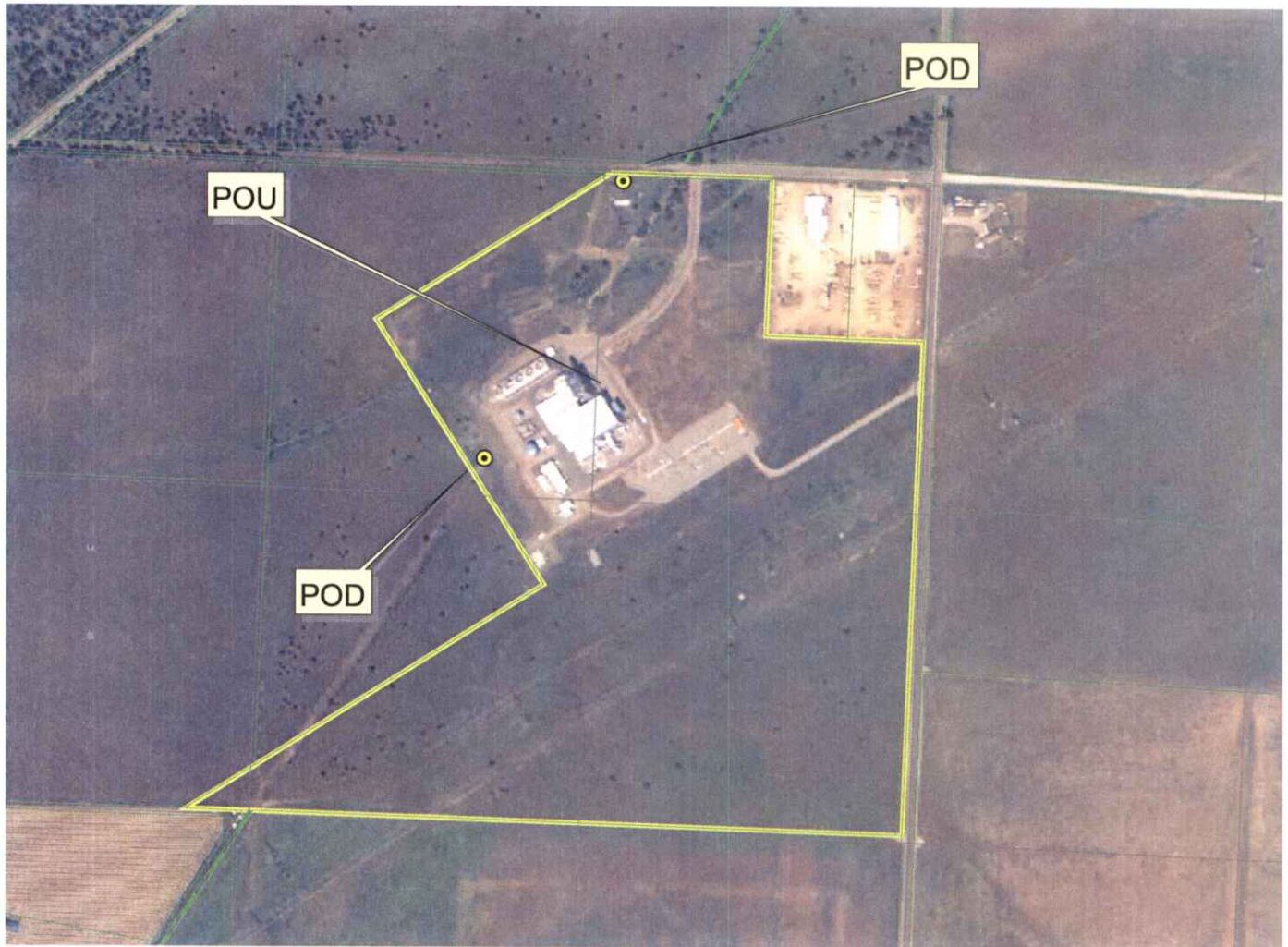
2. Measurements: _____

M E M O R A N D U M

Date: January 11, 2007
To: Water Right File 95-8924
From: kfranklin
Re: Field Report Narrative

CONDITIONS OF THE PERMIT HAVE BEEN MET.

95-8924



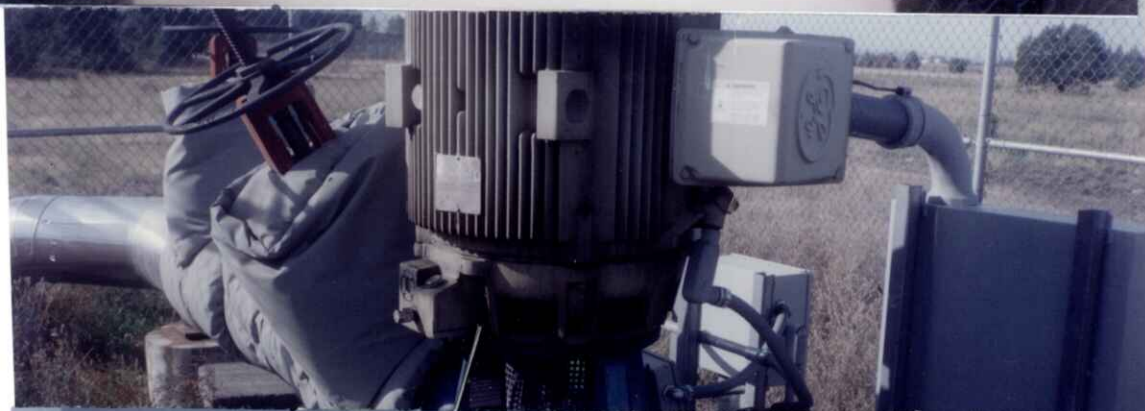
0.2 0 0.2 0.4 Miles

- Kootenai taxlots
- GCDB51N05W GCDB
- Foster.shp
- Pou.shp
- Pod.shp
- Administrative BasinsAdminbas.shp





Well #2



Well #1



In Line To
500,000 gal
Storage

95-8924



Well #2



Well #1



In Line To
500,000 gal
Storage

95-8924

Irrigation : South lot

85 trees x 2 emitters @ 1gph each

$$\left[85 \times 2 \times \frac{1}{60} \text{ gpm} \right] \frac{0.448.33}{1} = 0.0063 \text{ cfs}$$

North lot

10 trees x 1 emitter @ 1gph

$$\left[10 \times 1 \times \frac{1}{60} \right] \frac{0.448.33}{1} = 0.00037 \text{ cfs}$$

$$\text{Total} = 0.0067 \text{ cfs}$$

$$\text{or } 0.01 \text{ cfs}$$

Volume 3 1) System runs $\frac{1}{2}$ hr/day x 214 days = 107 hrs

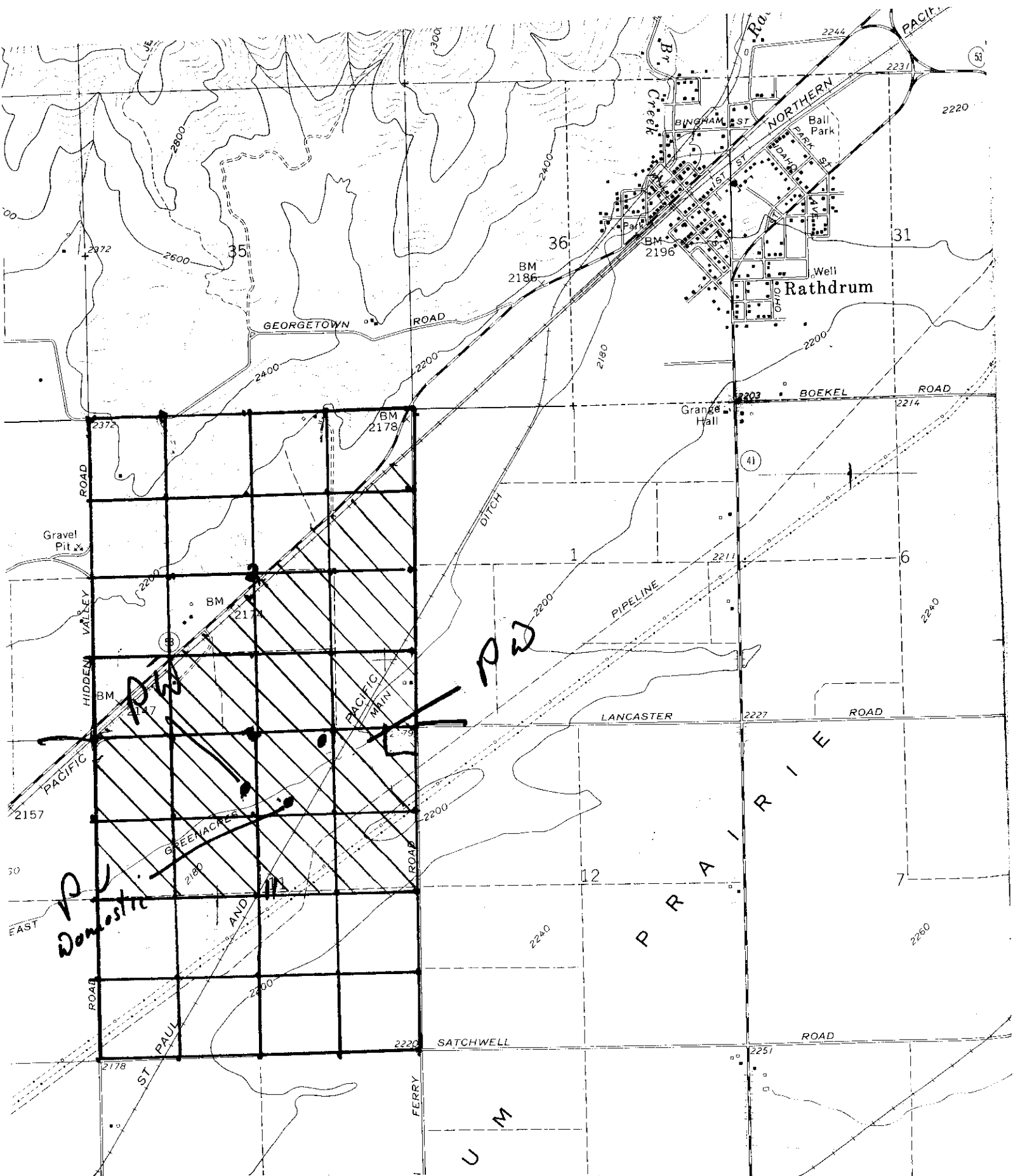
$$0.01 \frac{\text{ft}^3}{\text{sec}} \times 60 \frac{\text{sec}}{\text{min}} \times 60 \frac{\text{min}}{\text{hr}} \times 107 \text{ hrs}$$

$$= 3,852 \text{ ft}^3 / 43,560 = 0.09 \text{ AF}$$

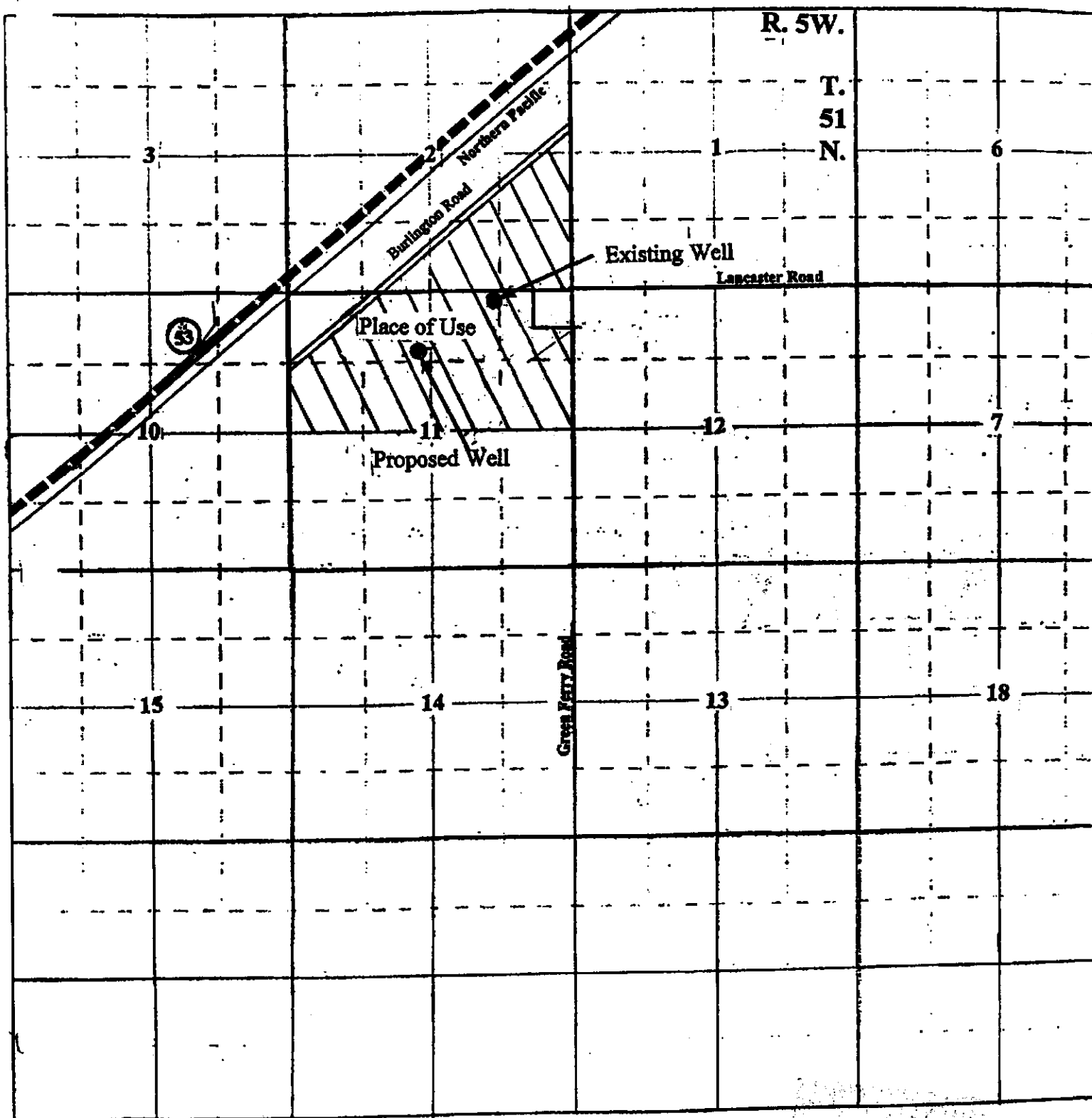
Option 2) Acreage : Assume $3' \times 3'$ per tree = 9 ft^2

$$9 \text{ ft}^2 \times 95 \text{ trees} = 855 \text{ ft}^2 / 43,560 = 0.02 \text{ Ac}$$

$$0.02 \text{ Ac} \times 3 \text{ AF/Ac} = 0.06 \text{ AF}$$



13. Map of proposed project: show clearly the proposed point of diversion, place of use, section number, township and range number.



BE IT KNOWN that the undersigned hereby makes application for permit to appropriate the public waters of the State of Idaho as herein set forth.

[Signature]
(Applicant)

RATHDRUM POWER, LLC

PO Box 996
9924 W. Lancaster Rd.
Rathdrum, ID 83858

Voice: (208) 687-5558
FAX: (208) 687-5490

Fax Transmittal Sheet

Date: 10/19/06 **Number of Pages** (including this sheet) 5

TO: Idaho Department of Water Resources

ATTN: Keith Franklin

Fax #: 208-762-2819

FROM: Michell Remley

SUBJECT: Irrigation System

Original to follow: Yes ☐ No ☒

COMMENTS:

Mr. Franklin,

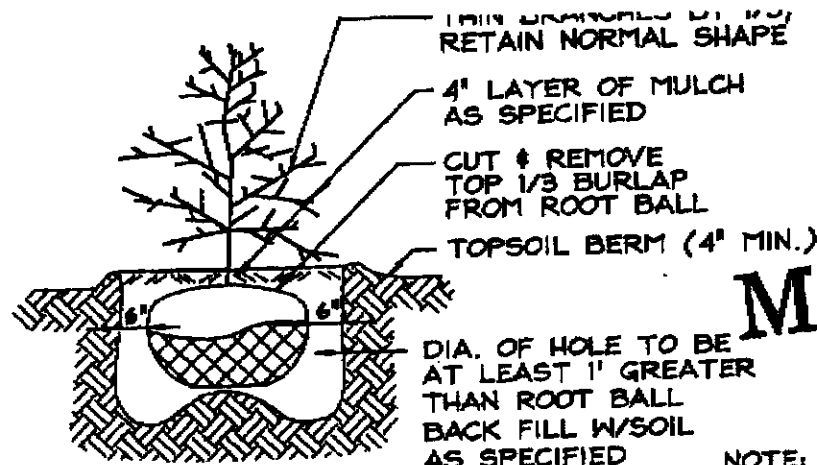
As per you request please find attached the plant material schedule and detail on the drip irrigation system at Rathdrum Power. There are 85 trees on the South side of the plant entrance road that are irrigated with Toro Turbo SC Plus pressurized compensating emitters (1 gph) there are 2 emitters per tree. On the North side of the plant entrance road there are 10 trees that are irrigated with a shrubler system, one per tree (est. flow same at the SC Plus).

The irrigation system is set on a local timer to turn on each morning for < 1 hour. The system is winterized each fall.

The attached details can be lined up using the A mark in circle and B mark in a square.

If you have any further questions or need more information please contact me.

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**TYPICAL DETAIL
SHRUB PLANTING**
N.T.S.

MASTER

NOTE:
CONTAINER TO BE
REMOVED FROM
CONTAINER GROWN
PLANTS AT TIME
OF PLANTING

PLANT MATERIAL SCHEDULE

TAG	COMMON NAME	BOTANICAL NAME	SIZE	QTY.
AR	RED MAPLE	ACER RUBRUM	2.5-3"	10
CL	AMERICAN YELLOWWOOD	CLADRASTIS LUTEA	2.5-3"	23
SR	JAPANESE TREE LILAC	SYRINGA RETICULATA	2-2.5"	3
PF	LIMBER PINE	PINUS FLEXILIS	2.5-3"	40
PH	COLORADO SPRUCE	PICEA PUNGENS 'HOOPSII'	2.5-3"	7
EA	WINGED EUONYMUS	EUONYMUS ALATA 'COMPACTUS'	3-4'	4
MA	OREGON GRAPEHOLLY	MAHONIA AQUIFOLIUM	2-3'	4
CA	CRANBERRY COTONEASTER	COTONEASTER APICULATUS	2-2.5'	4

F



G

DWG. NO

ENGINEERED BY:

CBC

DRAWN BY:

IEA

DATE:

12-3-99

SCALE:

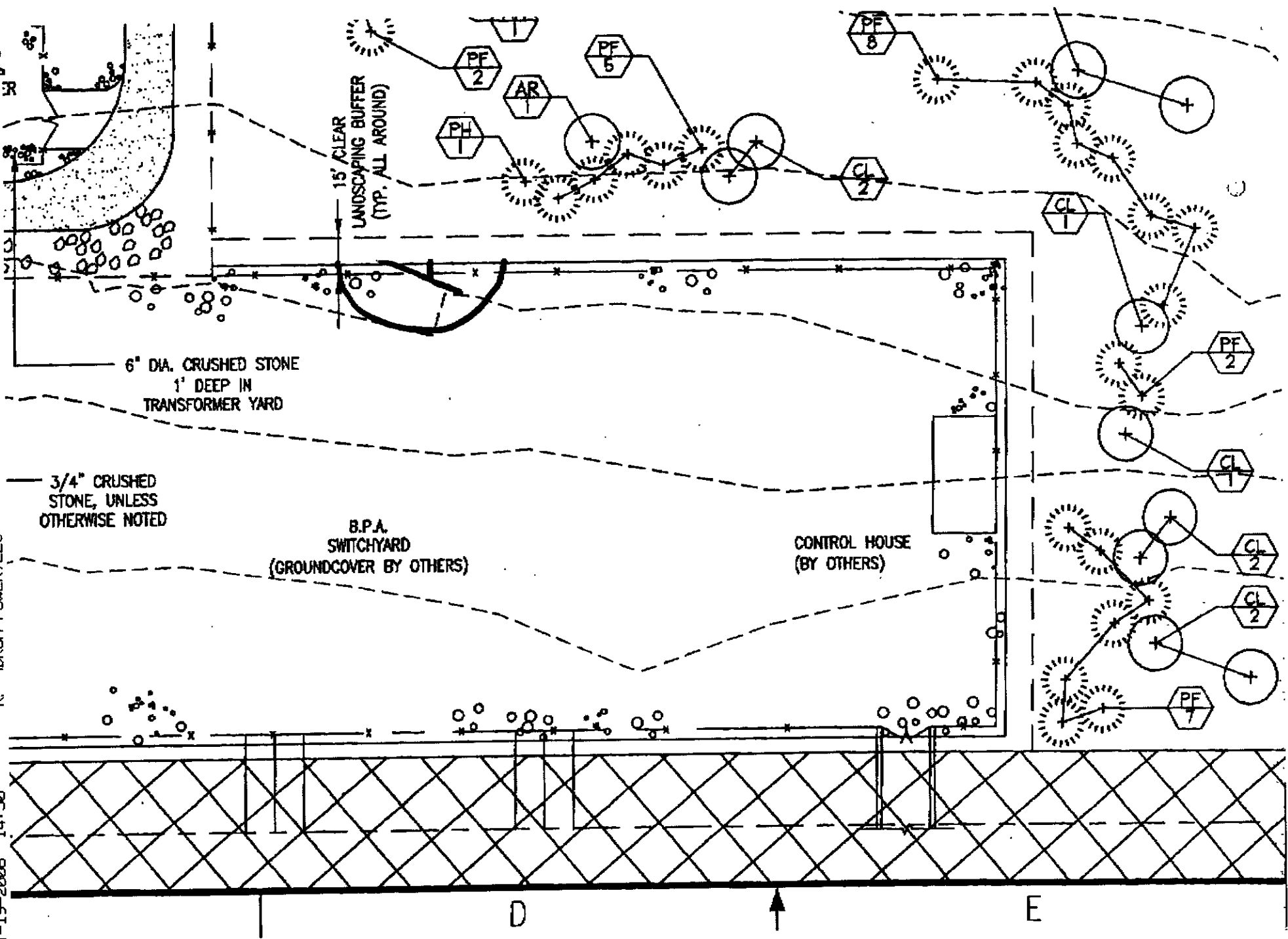
1" = 50'



lr
9

This drawing is
and is not to
be used

OCT-19-2006 14:30 R. DRUM POWER, LLC 208 687 5490 P.03 010



DCT-19-2006 14:30

R. DRUM POWER, LLC

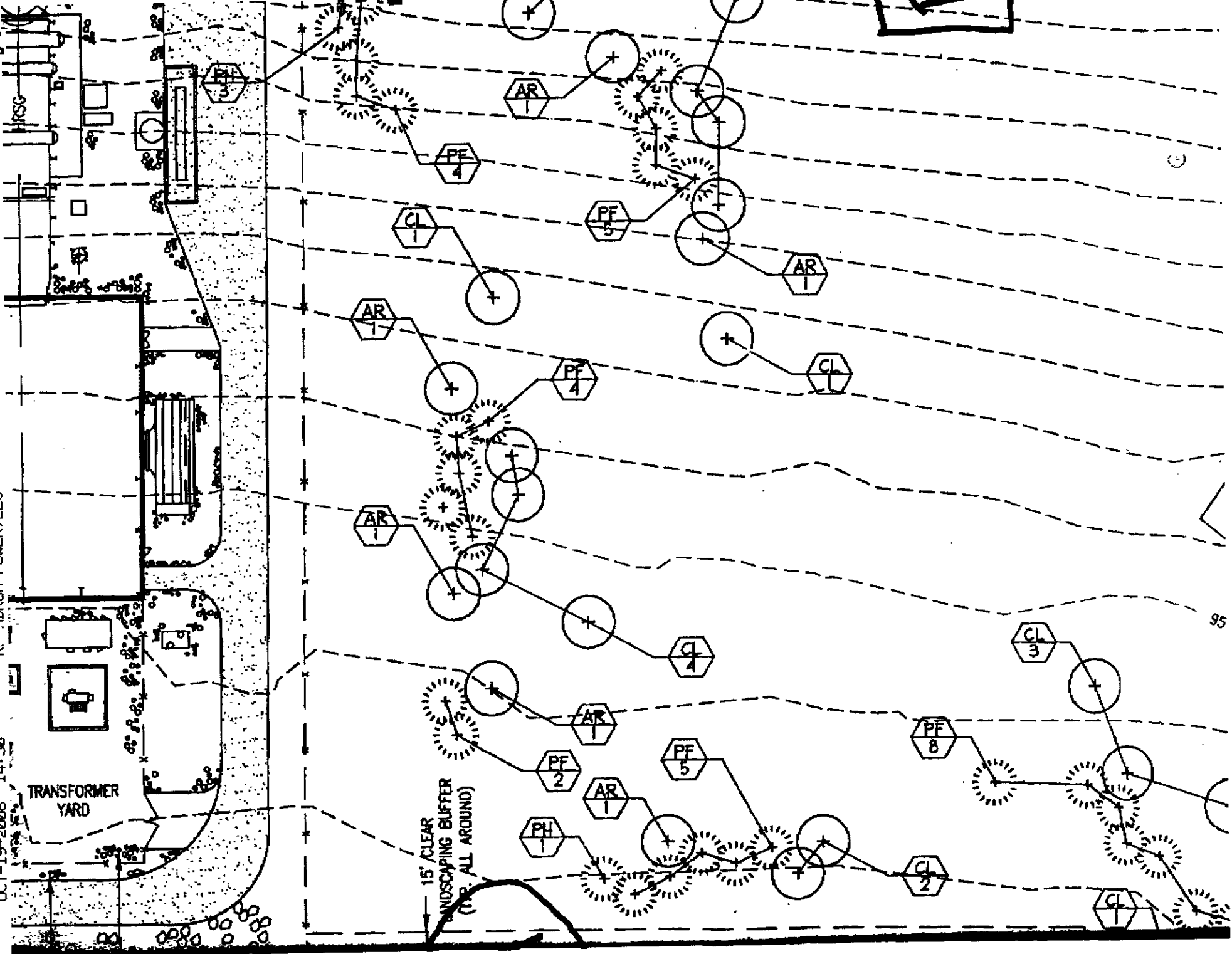
208 687 5490

P.04

010

TRANSFORMER YARD

15' CLEAR
LANDSCAPING BUFFER
(15' ALL AROUND)



OCT-19-2006 11:48

F IDRUM POWER, LLC

208 687 5490

P.05

8

TOTAL P.05

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There is no handwriting or other markings on the paper.

Have conditions of permit approval been met? yes ☒ no ☐

F. FLOW CALCULATIONS

Measured Method:

Additional Computation Sheets Attached

Flow meter, 1500 gpm per pump capability, recommend 4.46 cfs max. for industrial

Irrigation: 85 trees x 2 emitters/tree @ 1 gph each emitter
 $[85 \times 2 \times \frac{1}{60}] \div 448.83 = 0.0063 \text{ cfs}$

10 trees x 1 emitter @ 1 gph
 $[10 \times 1 \times \frac{1}{60}] \div 448.83 = 0.00037 \text{ cfs}$

Total 0.0067 cfs
 or 0.01

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$V_{LR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = (0.02 \text{ Ac}) (3) = 0.06 \text{ AF}$

$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = [0.01 \text{ cfs} \times 60 \times 60 \times 107 \text{ hrs}] \div 43,560 = 0.09 \text{ AF}$

$V = \text{Smaller of } V_{LR} \text{ and } V_{D.R.} = \text{Recommend } 0.1 \text{ AF}$

2. Volume Calculations for Other Uses:

Annual Volume Computed from Pumping Records

$\frac{246,901,122 \text{ gallons}}{325,850} \div 3.785 = 757.7 \text{ AFA}$

Domestic: Inhouse use 0.6 AFA

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
<i>Irrigation</i>	<i>03-15</i>	<i>11-15</i>	<i>0.01</i>	<i>0.10</i>
<i>Industrial</i>	<i>01-01</i>	<i>12-31</i>	<i>4.46</i>	<i>757.7</i>
<i>Domestic</i>	<i>01-01</i>	<i>12-31</i>	<i>0.09</i>	<i>0.60</i>
Totals:			<i>4.49</i>	<i>758.4</i>

2. Recommended Amendments

☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☐ None
☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

I. AUTHENTICATION

Field Examiner's Name Wayne Baldwin Date 9-29-06

Reviewer Keith J. Frank Date 11/1/07

SEAL