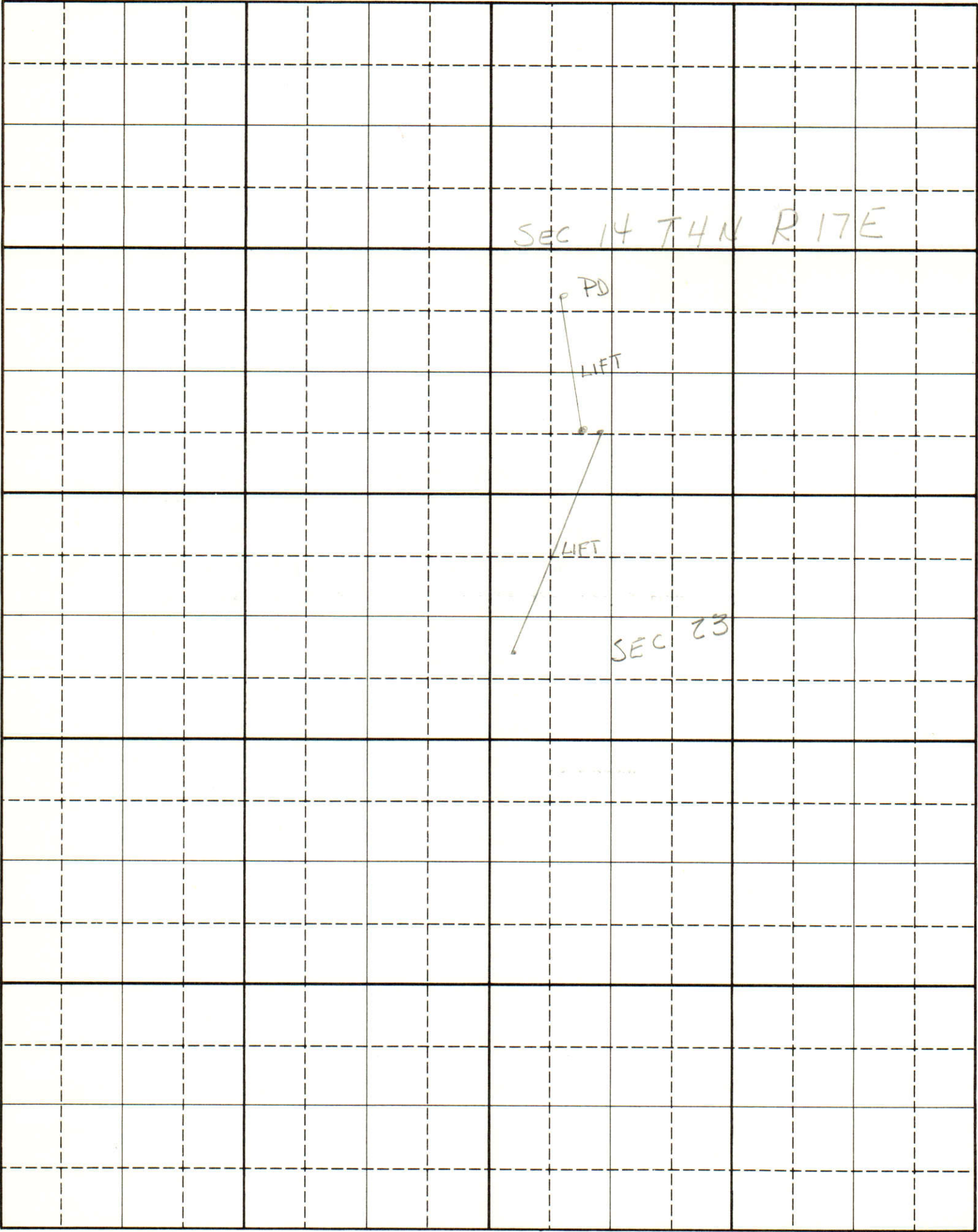


11. Map of proposed project: show clearly the proposed point of diversion, place of use, section number, township and range number.



Scale: 2 inches equal 1 mile

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.


(Applicant) President, Sun Valley Company

AFFIDAVIT OF PUBLICATION

RECEIVED

State of Idaho, }
 County of Blaine } SS.

MAR 5 1974

Department of Water Administration
 Southern District Office

Gordon O. Gasmann, being first duly sworn, deposes and says that he is the printer (publisher) of the Wood River Journal, a newspaper published every week in Hailey, County of Blaine, State of Idaho; that said newspaper has been continuously and uninterruptedly published for a period of seventy-eight consecutive weeks prior to the first publication of the annexed notice, and is a newspaper qualified to publish legal notices as provided by act of the 1919 session of the legislature of the State of Idaho, known as House Bill 145; that the annexed advertisement was published once

each week for 2 consecutive issues in said newspaper proper and not in a supplement; that the date of the first publication of said advertisement was on the 21 day of February, 19 74, and the date of the last publication was on the 28 day of February, 19 74.

Subscribed and sworn to before me this 1st day of March, 19 74.
 (SEAL)

J. Schneider

NOTARY PUBLIC

WOOD RIVER JOURNAL

Hailey, Idaho

COST OF PUBLICATION

Number of Lines in Notice	<u>37</u>	
Number of Insertions	<u>2</u>	
Lines tabular at	315c	
<u>37</u> Lines straight at	21c	<u>7.77</u>
<u>37</u> Subsequent lines at	15c	<u>5.55</u>
TOTAL COST		<u>13.32</u>

COPY OF NOTICE

(Paste Here)

Application 37-7340
 TITLE OF NOTICE

PLAINTIFF ATTORNEY

DEFENDANT

PLAINTIFF

BILL TO

Dept of Water Admin.
Twin Falls, Idaho

NOTICE OF APPLICATION FOR WATER PERMIT

Notice is hereby given that Sun Valley Co., Inc., Sun Valley, Idaho, has on 2-8-74 submitted Application No. 37-7340 for a permit to appropriate 4 cubic feet per second of water from Warm Springs Creek, tributary of Big Wood River by means of pump within the Lot 3, Sec. 14, T 4N, R 17E, B.M., Blaine County to be used from Nov. 1 to April 10 for snowmaking within the W 1/2, Sec. 14, Sec. 23, T 4N, R 17E, B.M.

If issued, this permit will be subject to all prior water rights. Protests against the granting of the permit must be filed with the Idaho Department of Water Administration, 1041 Blue Lakes Blvd., North, Twin Falls, Idaho 83301 on or before March 11, 1974.

R. Keith Higginson
 Director

Published: Wood River Journal, Blaine County, February 21 and 28, 1974.

Nº 221

37 7340

Diagram "A"

SIDE VIEW OF DIVERSION
FROM WARM SPRING CR.

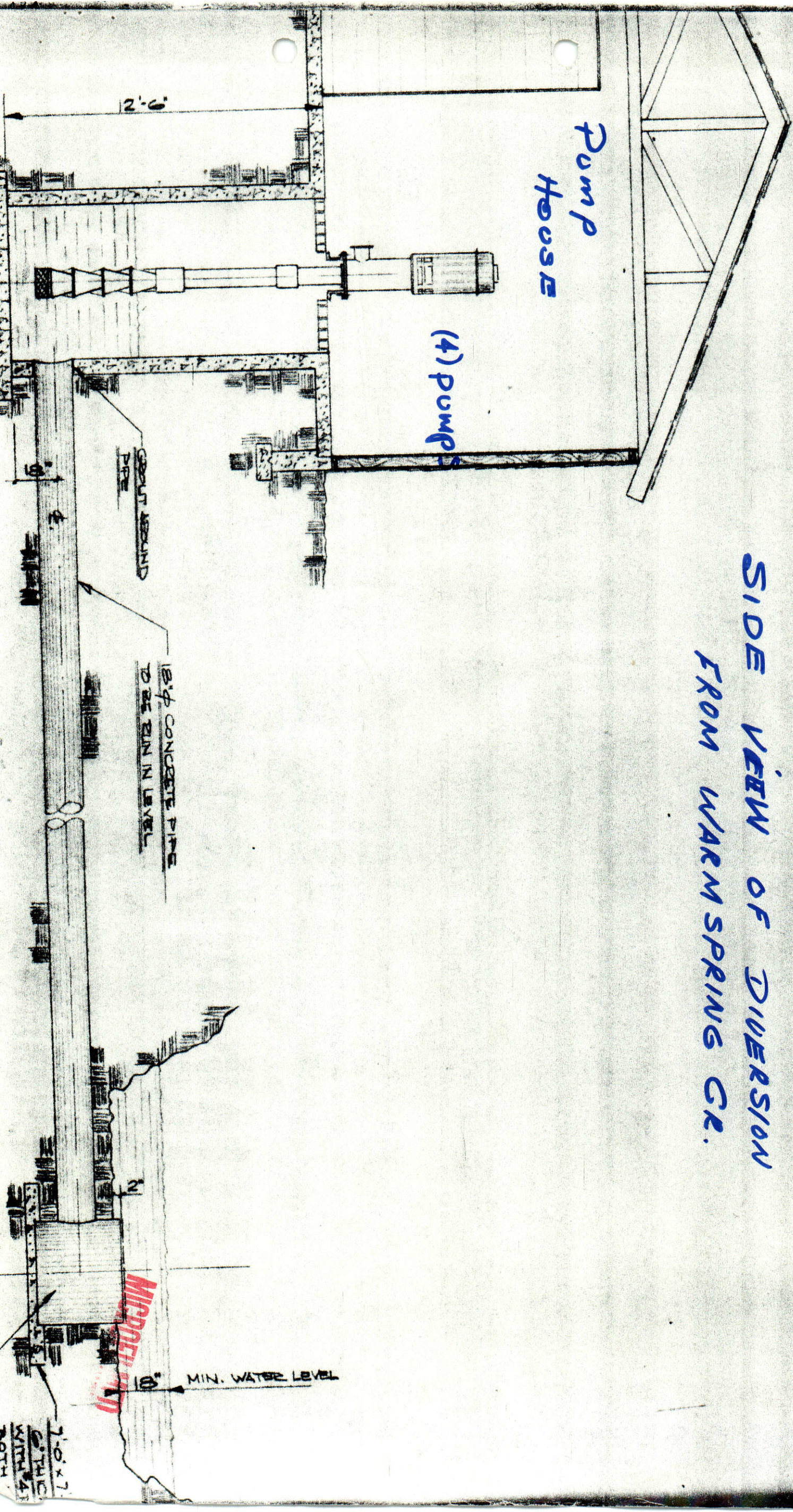
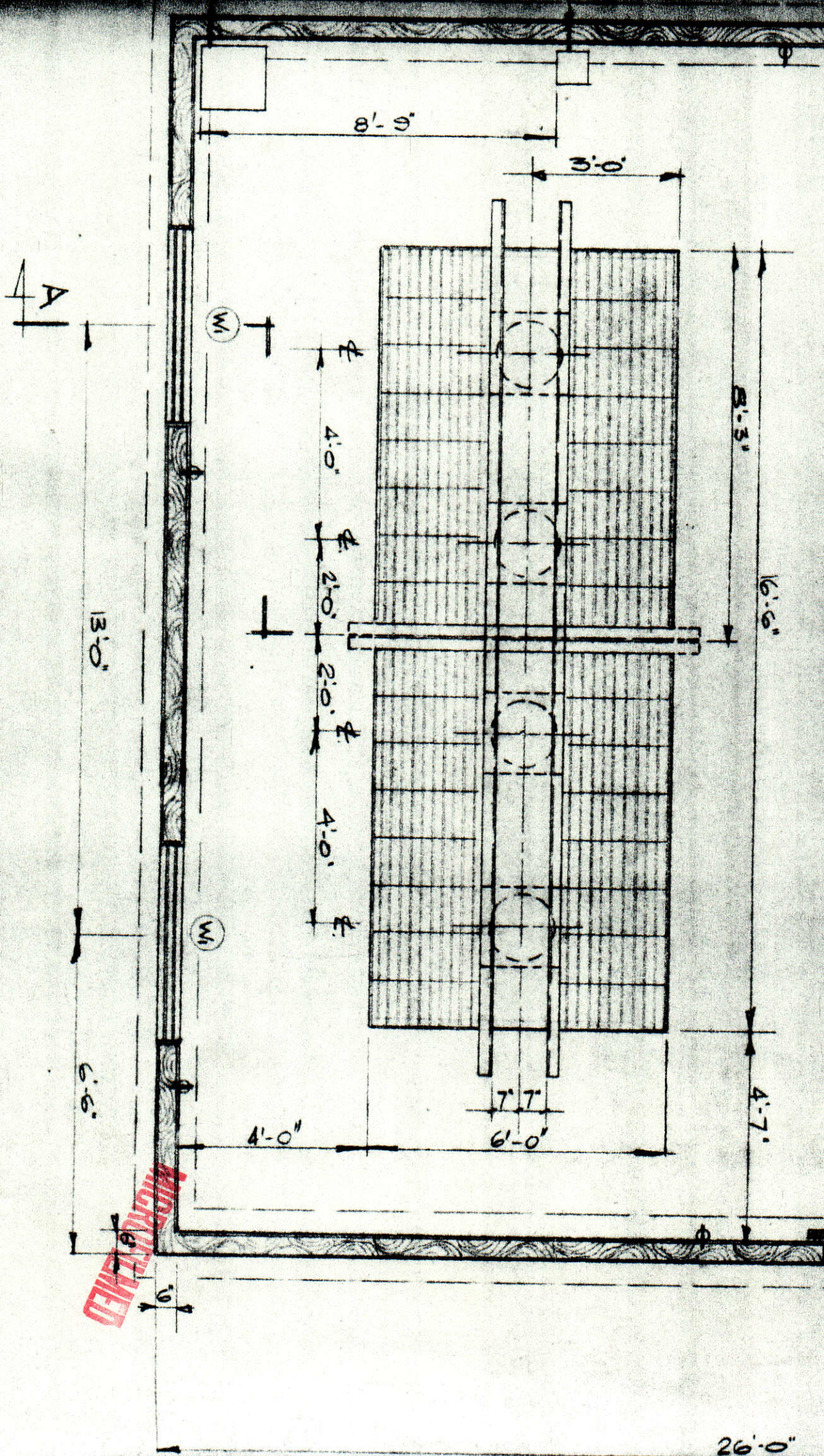


Diagram
B

Top View of (4) pumps at

Floor Plan Division.
Scale 3/8" = 1'-0"

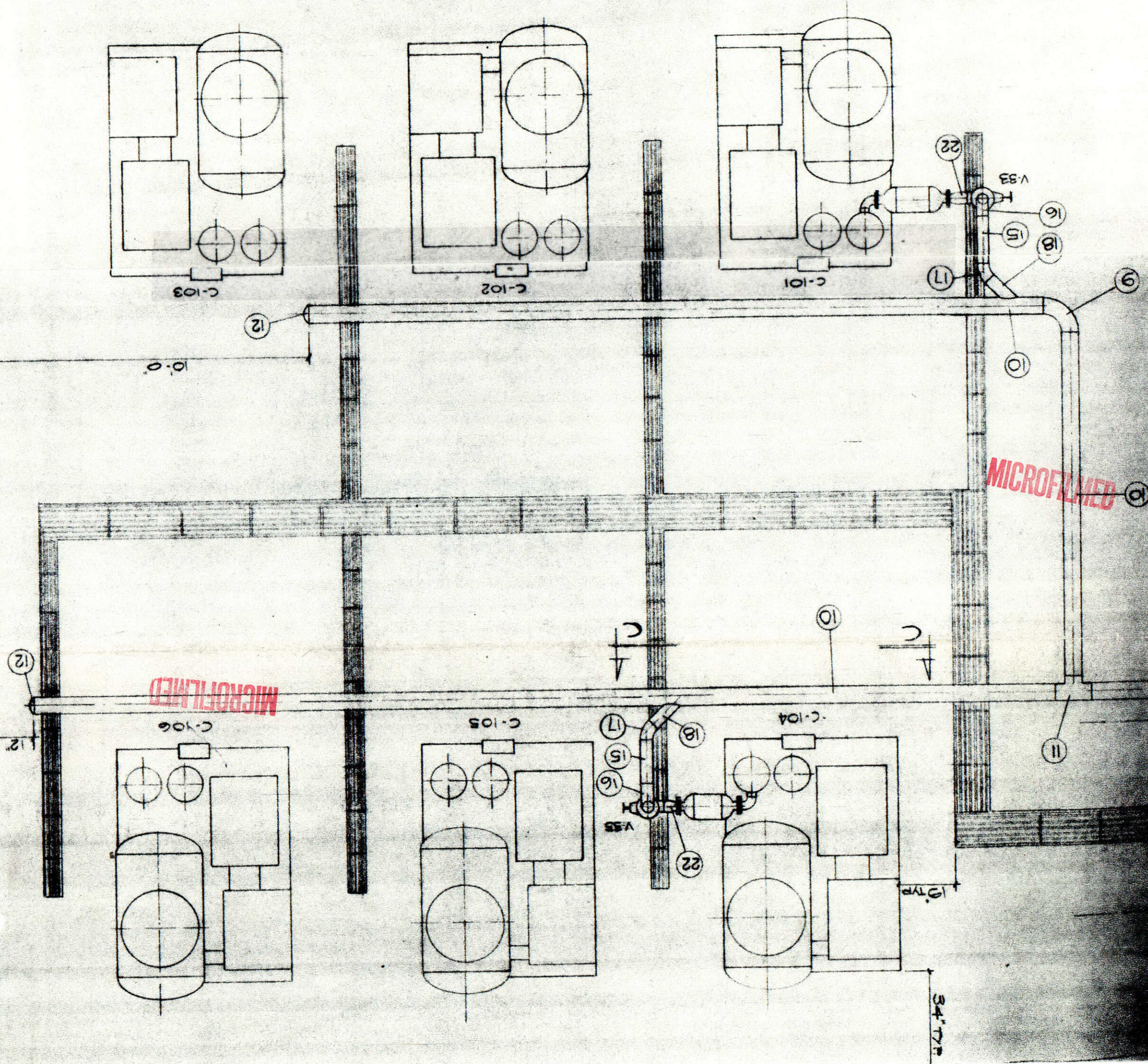


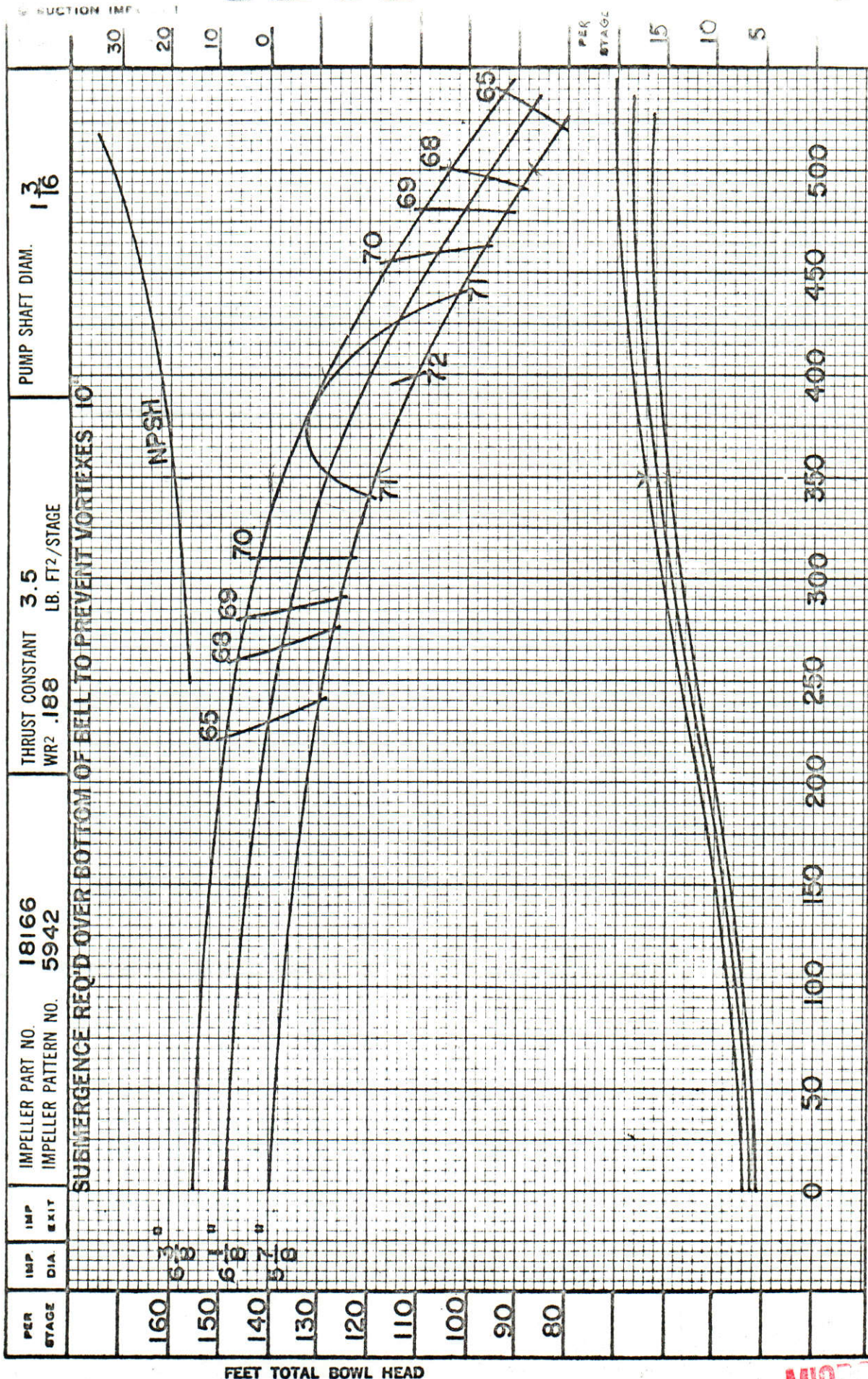
0

0



TOP VIEW AT COMPRESSOR HOUSE.





FEET TOTAL BOWL HEAD

SUBMERGENCE REQ'D OVER BOTTOM OF BELL TO PREVENT VORTEXES 10"

NPSH

6 3/8"
1 1/8"
7 1/8"

PUMP SHAFT DIAM. 1 3/16

THRUST CONSTANT 3.5
WR2 .188 LB. FT2/STAGE

IMPELLER PART NO. 18166
IMPELLER PATTERN NO. 5942

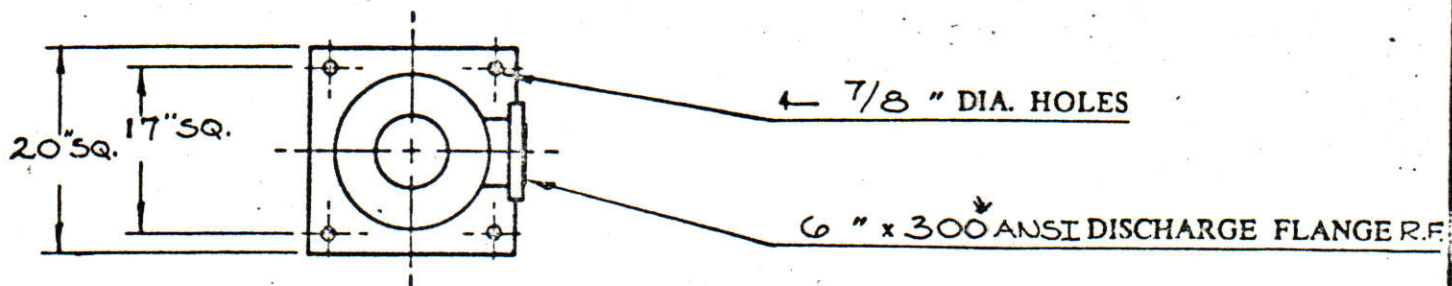
IMP DIA 6 3/8
IMP EXIT 1 1/8

8 AC TURBINE PUMP
IMPELLER - BRONZE
BOWL - CAST IRON
VIT. EN. CURVE SHEET N°
3500 R.P.
EC-058

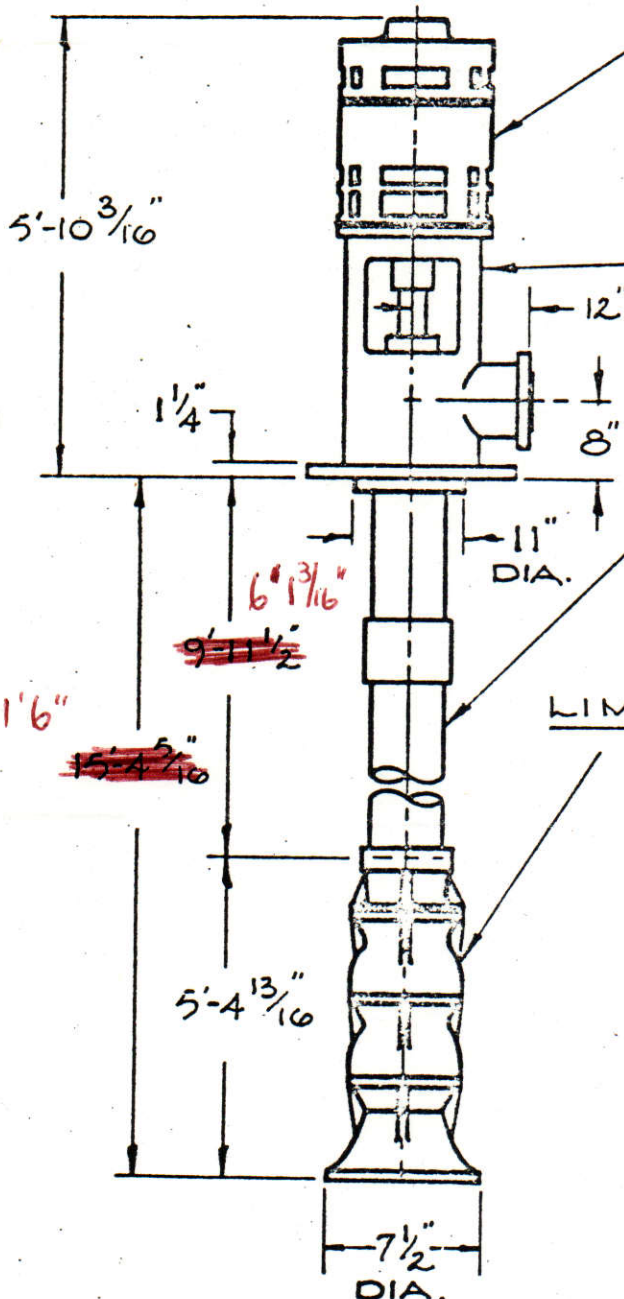
Johnston Pump Company
Glendora, California 91740
ESTABLISHED 1909

MIC

JOHNSTON VERTICAL TURBINE PUMP



U.S. ELECTRIC
VERTICAL HOLLOW SHAFT MOTOR
HP-250 PHASE-3 CYCLE-60
VOLTAGE-460 RPM-3600
ENCLOSURE-WEATHER PROT. I
W/175% EXTRA THRUST



FAB. TYPE "A" DISCHARGE HEAD-16 1/2" x 6"

2F ADJ. FLG'D CPLG; 304 SS.
HD. SHAFT SLEEVE-HARD FACED
COLUMN ASSEMBLY-6" x 1 1/2" W.L.

BOWL ASSEMBLY-10 STAGE 8AC
C.I. CL 50 TOP 4 BOWLS & DISCH. CASE
ALL BOWLS "O" RINGED
PUMP SHAFT HEAT TREATED
BOWL WEAR RINGS: 410 ST. STL.
U.S. GALLONS PER MINUTE-350
TOTAL DYNAMIC HEAD IN FT.-1400
LIQUID-WATER
SPEC. GRAV. 1.0 @ AMB.°F. TEMP.

LIMITS

CUSTOMER

PO#

DEALER: MID-CONT. ENGR. CORP.

PO# 4E 138

JOHNSTON SERIAL NO. PG-2045

JOHNSTON QUOTATION NO.

NOTE: DO NOT USE FOR CONSTRUCTION
UNLESS CERTIFIED

THIS PRINT CERTIFIED
CORRECT BY
JOHNSTON PUMP COMPANY
Original Signed by
H. A. J. GREUTINK

MICROFILMED

JOHNSTON PUMP CO.
GLEN DORA, CALIFORNIA

M.G.L. 5/74

11-2804-A

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

TRANSFER OF WATER RIGHT

TRANSFER NO. 4865
WATER RIGHT NO(S). 37-07170/37-07340

This is to certify that: **SINCLAIR OIL CORP**
DBA SUN VALLEY CO
C/O SCOTT L. CAMPBELL
PO BOX 1539
BOISE ID 83701

has requested a change to the above captioned water right(s). This change in water right(s) is authorized pursuant to the provisions of Section 42-222, Idaho Code, provided the conditions listed below are met.

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
Right No. 37-07170 :			
COMMERCIAL	11/01 to 04/10	2.00 CFS	638.7 AF
Priority: 10/31/1972			
Right No. 37-07340 :			
COMMERCIAL	11/01 to 04/10	0.23 CFS	73.5 AF
Priority: 02/08/1974			
	TOTAL:	2.23 CFS	712.2 AF

SOURCE

TRIBUTARY OF

WARM SPRINGS CREEK

BIG WOOD RIVER

LOCATION OF POINT(S) OF DIVERSION: Lot 3(NENW), Sec. 14, Township 04N, Range 17E
BLAINE County

PLACE OF USE: COMMERCIAL

TWN RGE SEC

04N 17E 13		SWSW		
14	Lot 3(NENW)	SENW	Lot 4(NWNW)	Lot 5(SWNW)
		SWSW	NESW	NWSW
		NWSE	SESW	Lot 7(NESE)
		NENE	SWSE	Lot 8(SESE)
23		NENW	NWNE	SWNE
		SENW	NWNW	SWNW
24		NWNW		

RECORDED

TRANSFER NO. 4865
WATER RIGHT NO(S). 37-07170/37-07340

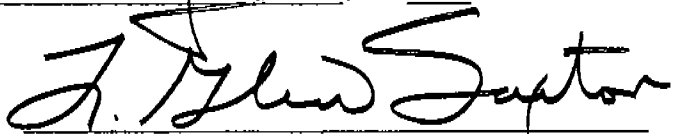
CONDITIONS OF APPROVAL AND REMARKS

1. Use of water under this water right will be regulated by the watermaster of State Water District No. 37.
2. A measuring device and lockable controlling works of a type approved by this Department shall be maintained on the diverting works in a manner that will provide the watermaster suitable control of the diversion.
3. The change authorized by this transfer shall be accomplished within one (1) year of the date of this approval.
4. Failure to comply with the conditions of this transfer is cause for the director to issue an order to show cause why the approval of the transfer should not be rescinded.
5. Approval of this transfer does not preclude the opportunity for review of the validity of the water right(s) in the ongoing Snake River Basin Adjudication.
6. Commercial use is for snow-making purposes.

Dated this 17th day of

January

1997



Chief, Water Alloc. Bureau

11-20-2001
11-23-02

State of Idaho
Department of Water Resources

WATER RIGHT LICENSE

License of Water Right No. 37-7340 Priority February 8, 1974 Amount 0.23 cfs

THIS IS TO CERTIFY, that Sun Valley Co.
of Sun Valley, Idaho, has complied with the terms and conditions of Permit
No. 37-7340 issued pursuant to Application for Permit dated February 8, 1974,
and has submitted proof to the Department of Water Resources on November 15, 1977,
that he has applied water to a beneficial use; an examination by the Department indicates that the works have a
capacity for the diversion of 2.23 cfs of water from Warm Springs Creek,
tributary to Big Wood River, and that the permit holder has applied to a beneficial use and
established a right to use water as follows:

Beneficial Use	Period of Use	Rate of Diversion	Annual Volume
<u>Commercial</u>	from <u>November 1</u> to <u>April 10</u>	at <u>0.23</u> cfs and	<u>73.5</u> acre feet
	from _____ to _____	at _____ cfs and	_____
	from _____ to _____	at _____ cfs and	_____

(both dates inclusive)

Subject, however, to the condition that no more than 0.23 cfs of water be diverted at any one time, and
that the amount of water so diverted and to which such right is entitled and confirmed is for the purpose
aforementioned and is limited to the amount which can actually be beneficially used and shall not exceed
73.5 acre feet per year, said waters to be diverted within the Government Lot 3 (NE $\frac{1}{4}$ NW $\frac{1}{4}$),
Section 14, Twp. 4N, Rge. 17E in the County of Blaine

Description and location of place of use:

Twp.	Range	Sec.	NE $\frac{1}{4}$				NW $\frac{1}{4}$				SW $\frac{1}{4}$				SE $\frac{1}{4}$				Totals
			NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	
4N	17E	14					X	X	X	X	X	X	X	X					
		23		X	X		X	X	X	X	X	X	X	X					

Total number of acres irrigated _____

Commercial use is for snow making.
Use of water under this license is subject to control by the watermaster of
State Water District No. 37, Big Wood River.

NOTE: Modifications to or variance from this license must be made within the limits of Section 42-222, Idaho
Code, or the applicable Idaho Law. This right may be forfeited by five years of non-use.

The right to the use of the water hereby confirmed is restricted and appurtenant to the lands or place of use
herein described, and is subject to all prior water rights, as provided by the laws of Idaho.

Witness the seal and signature of the Director, affixed at Boise, Idaho, this 7th day of

March, 19 83

Director

STATE OF IDAHO

RECEIVED

JAN 13 1983

APPLICATION FOR AMENDMENT OF A PERMIT

Department of Water Resources

To change the point of diversion and/or the place of use.

Comes now Sun Valley Co. Phone

of (address) Sun Valley, Idaho 83353, and represents to the
Director of the Idaho Department of Water Resources:

That he is the owner and holder of Permit to appropriate the Public Waters of the State of Idaho
No. 37-7340, and requests that the permit and permit map be changed as follows:
Gov. Lot 3

1. Point of diversion: (NE $\frac{1}{4}$ NW $\frac{1}{4}$) $\frac{1}{4}$, Section 14, Township 4N, Range 17E, B.M.,
County of Blaine. Other points of diversion:

2. Period and nature of use: (irrigation, domestic, stockwatering, industrial, etc.)

Amount 0.23 for commercial purposes from 11/1 to 4/10 (both dates inclusive)
(cfs or acre feet per annum)

Amount for purposes from to (both dates inclusive)
(cfs or acre feet per annum)

Amount for purposes from to (both dates inclusive)
(cfs or acre feet per annum)

Amount for purposes from to (both dates inclusive)
(cfs or acre feet per annum)

3. Place of use or land to be irrigated:

TWP	RGE	SEC	NE $\frac{1}{4}$				NW $\frac{1}{4}$				SW $\frac{1}{4}$				SE $\frac{1}{4}$				TOTALS
			NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	
4N	17E	14					X	X	X	X	X	X	X	X		X	X		
		23		X	X		X	X	X	X	X	X	X	X					

Total number of acres to be irrigated =

4. a. Who owns the property at the point of diversion?

b. Who owns the land to be irrigated or the place of use?

c. If the property is owned by a person other than the applicant, describe the arrangement enabling the
applicant to make this filing:

Show 40-acre subdivisions, townships, ranges and ditches.

Not Necessary

[illegible]

Signed at SUN Valley OFFICES, this 10 day of JANUARY, 19 83.

X

(Signature)

Preliminary check by [Signature] Fee = \$20.00

Received by HA Date 1-13-83 # 25820

Publication prepared by PA Date

Published in _____

Publication dates

I, A. KENNETH DUNN, of the Department of Water Resources hereby

APPROVE the above Application for Amendment of Permit No. 37-7340.

Witness my hand this

7th

day of

March

, 19 83

Director

9.5

State of Idaho
Department of Water Resources

RECEIVED 750
NOV 15 1977

ASSIGNMENT OF PERMIT

Department of Water Resources

I, Sun Valley Company, Inc., hereby assign to Sun Valley Company
of Sun Valley, Idaho 83353 Address

CHECK ONE

☒

All my right, title, and interest in and to Permit No. #37-7340
to appropriate the public waters of the State of Idaho.

☐

The following described portion of my right, title, and interest in and to Permit
No. _____ to appropriate the public waters of the State of Idaho.

(Describe that portion of the permit being assigned by listing the acreage within
each 40 acre subdivision, the point of diversion and the amount of water in cubic
feet per second for direct diversion, or acre feet for storage)

Made this 11th day of November, 19 77.

Sun Valley Company, Inc.
by Hans L. Curren
Permit Holder Assistant Secretary

Spouse of Permit Holder _____

State of Idaho)
County of Blaine) ss.

On this 11th day of November, 19 77, personally
appeared before me the signer(s) of the above instrument, who duly acknowledged to me
that he (she) (they) executed the same.

seal

Cecil Ricks
Notary Public residing at
Hailey, Idaho

My commission expires:
December 1977

RECEIVED

FEB 8 1974

Department of Water Administration
Southern District Office

STATE OF IDAHO
DEPARTMENT OF WATER ADMINISTRATION

APPLICATION FOR PERMIT

APPROVED

To Appropriate the Public Waters of the State of Idaho
(TYPE OR PRINT IN INK)

Identification No. _____

Application No. 37-7340

1. Name of applicant Sun Valley Co. Inc.
post office address Sun Valley, Idaho
2. Source of water supply Warm Springs Creek which is a tributary of Big Wood River
3. a. Location of point of diversion is Lot 3 ~~xxx~~ $\frac{1}{4}$ of Section 14 Township 4N
Range 17E B.M. Blaine County; additional points of diversion if any: _____

b. If water is not consumed, it will be discharged into _____ at a point in _____ $\frac{1}{4}$
of Lot 3 $\frac{1}{4}$ of Section 14 Township 4N Range 17E B.M. _____
4. Water will be used for the following purposes:
Amount 4 for commercial purpose from Nov. 1 to April 10 (both dates inclusive)
(cfs ~~acre-foot per annum~~)
Amount 4 for _____ purpose from _____ to _____ (both dates inclusive)
(cfs or acre-feet per annum)
Amount _____ for _____ purpose from _____ to _____ (both dates inclusive)
(cfs or acre-feet per annum)
5. Total quantity to be appropriated:
a. _____ cubic feet per second and/or
b. _____ acre feet per annum.
6. Proposed diverting works:
a. Description of ditches, flumes, pumps, headgates, etc. Pump

b. Height of storage dam _____ feet, active reservoir capacity _____ acre feet; total reservoir
capacity _____ acre feet, materials used in storage dam: _____
Period of year during which storage will occur _____ to _____ inclusive.
(Mo. Day) (Mo. Day)
c. Proposed well diameter is _____ inches; proposed depth of well is _____ feet.
7. a. Time required for the completion of the works and application of the water to the proposed beneficial use
is 5 years.
b. Estimated construction cost is \$ 15,000.00 or more.
8. Description of proposed uses:
a. If water is **not** for irrigation:
(1) Give the place of use of water: W-1/2 ~~xxx~~ $\frac{1}{4}$ of Section 23 Township 4N
Range 17E B.M. _____
(2) Amount of power to be generated: _____ hp under _____ feet of head.
(3) List number of each kind of livestock to be watered _____

(4) Name of municipality to be served _____, or number of families to be
supplied with domestic water _____.
(5) If water is to be used for other purposes describe: Making snow for the Warm Springs
ski runs.

37 7340

b. If water is for irrigation, indicate acreage in each subdivision in the tabulation below:

[illegible]

Total number of acres to be irrigated_____

c. Describe any other water rights used for the same purposes as described above. _____

9. a. Who owns the property at the point of diversion applicant

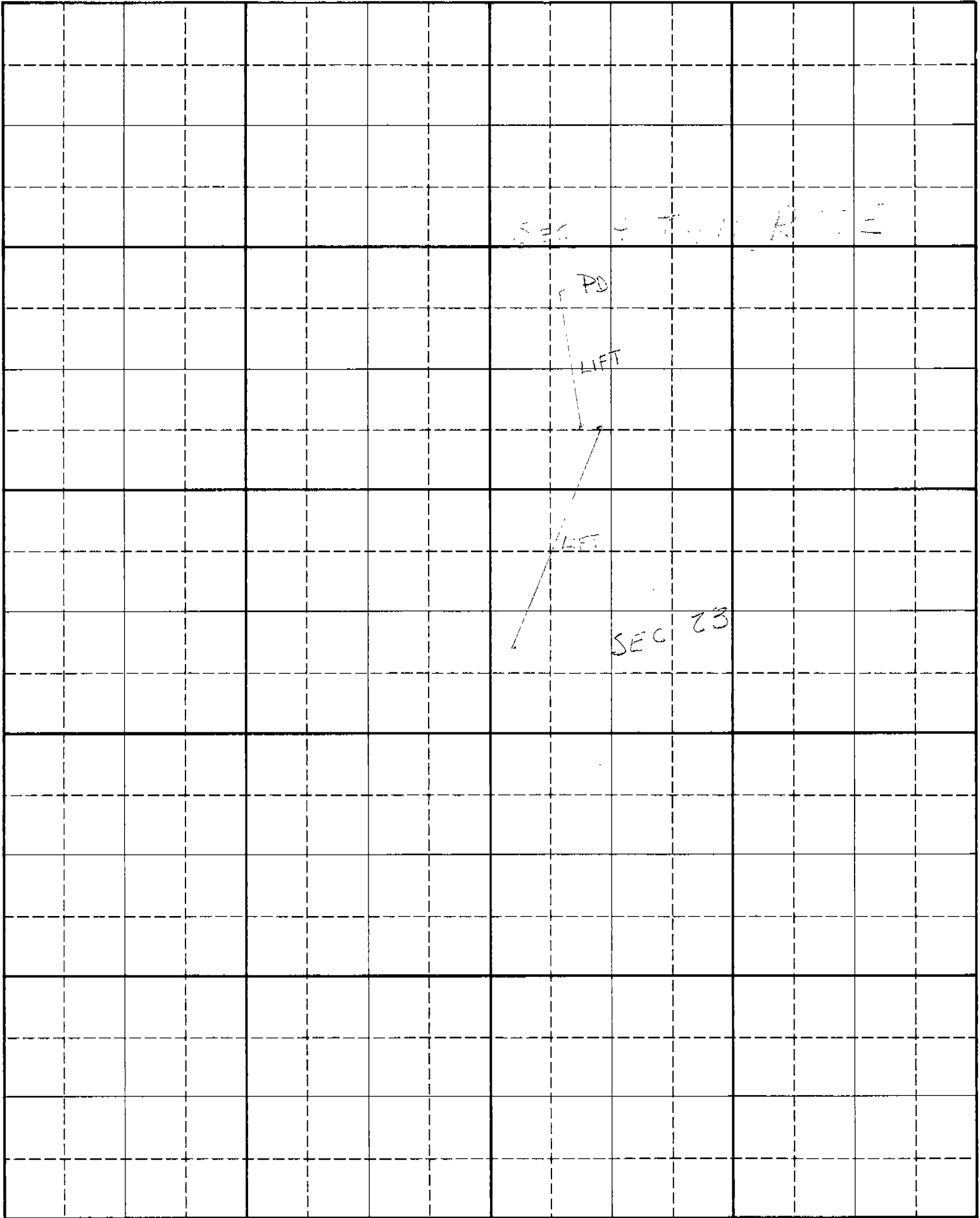
b. Who owns the land to be irrigated or place of use U. S. Forest Service

c. If the property is owned by a person other than the applicant, describe the arrangement enabling the applicant to make this filing long term lease with the U.S.F.S.

10. Remarks Use will be non-consumptive except for evaporation.

This request is to increase the amount of water from 2.0 c.f.s. applied for and approved on application No. 37-7170 to 6 c.f.s. This water is to be used for snowmaking on the hillsides above the Warm Springs drainage.

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



Scale: 2 inches equal 1 mile

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.


(Applicant) President, Sun Valley Company

Proposed Priority 2-8-1974Received by KDF Date 2-8-74 Time 2:30 PMPreliminary check by GLF Fee \$ 55.00Receipted by LT Date 2-8-74 13802Publication prepared by LT Date 2-8-74Published in Wood River JournalPublication dates 2-21 & 2-28-74Publication approved ✓ Date 2-9-74

Priority reduced to _____ Reason _____

Protests filed by: _____

Copies of protests forwarded by _____

Hearing held by _____ Date _____

Recommended for approval denial by KDF

ACTION OF THE DIRECTOR, DEPARTMENT OF WATER ADMINISTRATION

This is to certify that I have examined Application for Permit to appropriate the public waters of the State of Idaho No. 37-7340, and said application is hereby APPROVED.

1. Approval of said application is subject to the following limitations and conditions:

- a. SUBJECT TO ALL PRIOR WATER RIGHTS.
- b. Proof of construction of works and application of water to beneficial use shall be submitted on or before March 1, 19 79.
- c. Other: A measuring device of a type approved by this department shall be permanently installed and maintained as part of the diverting works.

2. Denial of said application is for the following reasons: _____

Witness my hand this 26 day of March 19 74.

A. Kirk Higgins
Director

DEPARTMENT OF WATER ADMINISTRATION
- STAFF ANALYSIS -

Item	Initial	Date	
(1)	<u>GLF</u>	<u>2-8-74</u>	Application No. <u>37-7340</u> <u>Sun Valley Co.</u>
(2)			☒ Source ☒ Point of Diversion ☒ County ☒ Quantity of Water and Period of Use ☒ Description of Diverting Works ☒ Time required for B/U of water ☒ Place of Use or Acres Irrigated ☒ Map ☒ Signature ☒ Fee
(3)	<u>GLF</u>	<u>2-8-74</u>	In form to receipt
	<u>GLF</u>	<u>2-8-74</u>	Send Copies to: ☐ Idaho State Health Department ☐ Idaho Fish and Game Department ☐ Bureau of Land Management ☒ <u>send copy to U.S.F.S.</u> ☐ Request Special Use Permit from U.S.F.S. ☐ Request Easement from B.L.M. ☐ Request Information from Applicant
(4)	<u>GLF</u>	<u>2-8-74</u>	
(5)	<u>GLF</u>	<u>2-8-74</u>	In form for advertising
(6)	<u>KDF</u>	<u>3-11-74</u>	Located within Water District No. <u>37</u>
(7)	<u>KDF</u>	<u>3-11-74</u>	Critical groundwater area: yes ☐ no ☒
(8)	<u>KDF</u>	<u>3-11-74</u>	Groundwater levels: ☐ Decline (comment) _____ ☒ Stable (comment) _____ ☐ Increasing (comment) _____
(9)	<u>KDF</u>	<u>3-11-74</u>	Comments: <u>Believe the lease or use permit was submitted with App. No. 37-7170.</u>
(10)	<u>LT</u>	<u>3-5-74</u>	Affidavit of Publication received (date) <u>3-5-74</u>
(11)	<u>KDF</u>	<u>3-11-74</u>	Final date for protests <u>3-11-74</u> Protests received: yes ☐ no ☒
(12)	<u>NA</u>		Date and Place of hearing _____ Decision reached at hearing _____
(13)	<u>NA</u>		All requested information received from agencies or applicant yes ☐ no ☐
(14)	<u>KDF</u>	<u>3-11-74</u>	Action recommended: ☒ Approve Priority <u>2-8-74</u> ☐ Deny Reason for Reduction _____ ☒ Measuring device required ☐ See attached sheet for additional conditions of approval ☐ No additional conditions for approval
(15)	District <u>Southern</u>	By <u>KDF</u>	Date <u>3-11-74</u>

Department of Water Administration

37 7310

AFFIDAVIT OF PUBLICATION RECEIVED

State of Idaho,
County of Blaine

SS.

MAR 5 1974

Department of Water Administration
Southern District Office

Gordon O. Thompson, being first duly sworn, deposes and says that he is the printer (publisher) of the Wood River Journal, a newspaper published every week in Hailey, County of Blaine, State of Idaho; that said newspaper has been continuously and uninterruptedly published for a period of seventy-eight consecutive weeks prior to the first publication of the annexed notice, and is a newspaper qualified to publish legal notices as provided by act of the 1919 session of the legislature of the State of Idaho, known as House Bill 145; that the annexed advertisement was published once

each week for 2 consecutive issues in said newspaper proper and not in a supplement; that the date of the first publication

of said advertisement was on the 21 day of February,

19 74, and the date of the last publication was on the 28

day of February, 19 74

Subscribed and sworn to before me this 1st

day of March, 19 74

(SEAL)

NOTARY PUBLIC

WOOD RIVER JOURNAL

Hailey, Idaho

COST OF PUBLICATION

Number of Lines in Notice 37

Number of Insertions 2

..... Lines tabular at 315c

37 Lines straight at 21c 7.77

37 Subsequent lines at 15c 5.55

TOTAL COST 13.32

COPY OF NOTICE

(Paste Here)

Application 37-7340
TITLE OF NOTICE

PLAINTIFF ATTORNEY

DEFENDANT

PLAINTIFF

BILL TO

Dept of Water Admin.,
Chin. Falls, Idaho

NOTICE OF APPLICATION FOR WATER PERMIT

Notice is hereby given that Sun Valley Co., Inc., Sun Valley, Idaho, has on 2-8-74 submitted Application No. 37-7340 for a permit to appropriate 4 cubic feet per second of water from Warm Springs Creek, tributary of Big Wood River by means of pump within the Lot 3, Sec. 14, T 4N, R 17E, B.M., Blaine County to be used from Nov. 1 to April 10 for snowmaking within the W 1/2, Sec. 14, Sec. 23, T 4N, R 17E, B.M.

If issued, this permit will be subject to all prior water rights. Protests against the granting of the permit must be filed with the Idaho Department of Water Administration, 1041 Blue Lakes Blvd., North, Twin Falls, Idaho 83301 on or before March 11, 1974.

R. Keith Higginson
Director

Published: Wood River Journal, Blaine County, February 21 and 28, 1974.

No. 221

37 7310

RECEIVED

FEB 14 2000

Department of Water Resources

ELAM & BURKE

A Professional Association
ATTORNEYS AND COUNSELORS AT LAW
Established in 1928

KEY FINANCIAL CENTER
702 WEST IDAHO
POST OFFICE BOX 1539
BOISE, IDAHO 83701

TELEPHONE
208-343-5454

FACSIMILE
208-384-5844

SCOTT L. CAMPBELL

February 11, 2000

Ms. Danni Smith
Adjudication Bureau
Idaho Department of Water Resources
1301 North Orchard
Boise, ID 83706

*2.15.00 WR 2 updated
Ket*

Re: Sun Valley Company Water Right License, Permit, and/or SRBA Claim
Nos. A37-07340, A37-04108, A37-00416, A37-00415, A37-02722X, A37-02678,
and A37-12111

Dear Danni:

I am writing this letter in response to your request concerning my representation of the Sun Valley Company in the above-referenced water right numbers. Please be advised that this firm, Elam & Burke, P.A., represents the Sun Valley Company. Mr. David Lincoln, a Shareholder with our firm, signed the initial SRBA claims for several of Sun Valley Company's water rights in the late 80's. Accordingly, Mr. Lincoln is listed as the "attorney" for Sun Valley Company on those claims. It is my understanding that for the few licenses and/or permits filed post-November 1987, my name is listed as the "attorney" for Sun Valley Company.

Mr. Lincoln is no longer handling water rights matters for this firm. Therefore, to avoid any further confusion, I ask that the Department update their records to reflect my name as "attorney" for the Sun Valley Company in each and all of the above-referenced water rights.

Thank you for your assistance in this matter. If you have any questions, please do not hesitate to contact me.

Very truly yours,

ELAM & BURKE
A Professional Association


Scott L. Campbell

SLC:thm G:\Thm\WPDATA\1000\44\00004-smith (IDWR).wpd

cc: Wallace Huffman
Scott Mayeda



State of Idaho

DEPARTMENT OF WATER RESOURCES

1301 North Orchard Street, Statehouse Mail, Boise, Idaho 83720-9000

Phone: (208) 327-7900 FAX: (208) 327-7866

PHILIP E. BATT
GOVERNOR

KARL J. DREHER
DIRECTOR

January 21, 1997

SINCLAIR OIL CORP.
DBA SUN VALLEY CO.
C/O SCOTT L. CAMPBELL
PO BOX 1539
BOISE ID 83701

RE: WATER RIGHT NOS. 37-07170 AND 37-07340
TRANSFER NO. 4865

Dear Water Right Holder(s):

Enclosed is a copy of your approved Transfer of Water Right for the above referenced water rights (Transfer No. 4865). Please be sure to thoroughly review the "Conditions/Remarks:" as listed on the transfer.

Also, please note that as of July 1, 1996, water right owners are required to report any change of water right ownership and any change of mailing address to the department. If you have acquired a water right or have changed your mailing address PRIOR to July 1, 1996, you have until July 30, 1998, to notify the department. If you acquire a water right or change your mailing address AFTER July 1, 1996, you must notify the department within 120 days of the change.

Failure to report these changes could result in a \$100 late filing fee. Contact any office of the department to obtain the proper reporting form.

Sincerely,

JIM JOHNSON, Manager
Water Right Permits Section

JJ:ph

Enclosure

NOT RECORDED

JAN 23 1997



State of Idaho

DEPARTMENT OF WATER RESOURCES

1301 North Orchard Street, Statehouse Mail, Boise, Idaho 83720-9000

Phone: (208) 327-7900 FAX: (208) 327-7866

PHILIP E. BATT
GOVERNOR

KARL J. DREHER
DIRECTOR

January 22, 1997

LEE PETERSON, WATERMASTER
DISTRICT 37, BIG WOOD RIVER
BOX T
SHOSHONE ID 83352

RE: TRANSFER OF WATER RIGHT NOS. 37-07170 AND 37-07340
TRANSFER NO: 4865

Dear Mr. Peterson:

Enclosed is a copy of the recently approved Transfer of Water Rights for the above referenced water rights in the name of Sinclair Oil Corp (DBA Sun Valley Co.). Also included is a copy of the reviewers notes.

If you have any questions, please call me at (208) 327-7947.

Sincerely,

A handwritten signature in cursive script, appearing to read 'Jim Johnson'.

JIM JOHNSON, Manager
Water Permits Section

JJ:ph

enclosures

RECEIVED
JAN 23 1997

MEMORANDUM

TO: FILE NOS. 37-07170 & 37-07340

FROM: PAM SKAGGS³⁸/STATE OFFICE

SUBJECT: TRANSFER NO. 4865

DATE: January 17, 1997

=====

Transfer No. 4865 was filed to change the place of use under Right Nos. 37-07170 and 37-07340. Both rights are for commercial snow-making purposes and additional quarter-quarters were added to their combined place of use. No additional diversion is authorized through this transfer application.

Recommended conditions include watermaster control, measuring device & lockable controlling works, and standard transfer conditions.

RECEIVED

JAN 24 1997

MEMORANDUM

TO: FILE 37-07340

FROM: PAM SKAGGS

RE: TRANSFER # 4865

DATE: 7/15/96

Original Transfer Application, Form and correspondence
regarding the above referenced Transfer is located within
file # 37-07170.

100-100-1000
100-100-1000



State of Idaho

DEPARTMENT OF WATER RESOURCES

1301 North Orchard Street, Statehouse Mail, Boise, Idaho 83720-9000

Phone: (208) 327-7900 FAX: (208) 327-7866

CECIL D. ANDRUS
GOVERNOR

R. KEITH HIGGINSON
DIRECTOR

April 12, 1993

Greg Weatherby
12047 S. 5th West
Shelley, ID 83274

Dear Mr. Weatherby:

I have reviewed your letter dated March 31, 1993 on which you raise questions concerning the use of water for snowmaking in Sun Valley, Idaho.

The Department of Water Resources issued the water right approvals associated with the snow making activity. The following water rights are of record with the department:

License no. 37-7170
Priority: October 31, 1972
Source of water: Warm Springs Creek
Rate of diversion: 2.0 cfs
Season of use: November 1 to April 10

License no. 37-07340
Priority: February 8, 1974
Source of water: Warm Springs Creek
Rate of diversion: 0.23 cfs
Season of use: November 1 to April 10

Permit no. 37-08575
Priority: October 5, 1989
Source of water: Groundwater (wells)
Rate of diversion: 4.46 cfs
Season of use: October 15 to April 1

There is a minimum stream flow which has been established on the Big Wood River. The minimum flow is more particularly described as follows:

Permit no. 37-08307
Priority: October 16, 1987
Source of Water: Big Wood River - Beginning at the confluence of Warm Spring Creek and the Big Wood River extending downstream approximately 18 miles to the Bellevue diversion.
Min. flow rate: 119 cfs for the entire year

To obtain information on NEPA considerations, the lead Federal Agency in connection with environmental or other studies, I would refer you to either the U.S. Forest Service or the Sun Valley Company.

Please feel free to contact the department if I can provide any additional information or be of further assistance.

Sincerely,

A handwritten signature in black ink, appearing to read "L. Glen Saxton". The signature is fluid and cursive, with the first name "L." and last name "Saxton" clearly distinguishable.

L. GLEN SAXTON, Chief
Water Allocation Bureau

c: IDWR - S. Region

RECEIVED

APR - 7 1993

Department of Water Resources

March 31, 1993

Mr. Kieth Higginson
State of Idaho
Department of Water Resources
1301 N. Orchard
Boise, Idaho 83706

Mr. Higginson,

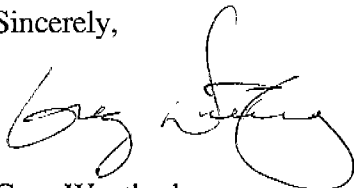
After a recent skiing trip to Sun Valley, I noticed a large amount of new snowmaking equipment that had been added to the resort. As an avid fisherman, I am concerned that the amount of water necessary to run the snowmaking machinery may have an adverse impact on the riparian habitat and fish populations of both the Wood River and the Warm Springs Creek.

I would appreciate any information you have on the following topics:

- a. What involvement did the Department of Water Resources have in decision making for the new snowmaking system,
- b. Has a minimum stream flow been established for either the Wood River or the Warm Springs Creek,
- c. What Environmental/Biological studies were done to determine impacts on the streams due to the snowmaking (including withdrawal/runoff),
- d. Who was the lead Federal Agency that reviewed the Sun Valley Company application for the snowmaking, and what NEPA considerations were addressed?

You can write to me at the following address, or call me at (208) 357-5744. I appreciate your assistance in this matter.

Sincerely,



Greg Weatherby
12047 S. 5th West
Shelley, Idaho 83274

March 29, 1983

RE: Permit No. 37-7340

Sun Valley Co.
Sun Valley,
Idaho 83350

Gentlemen:

Enclosed herewith is a copy of your Water Right License issued on the above referenced permit along with a copy of your approved application for amendment. Also enclosed is Departmental Receipt No. 26820 in the amount of \$20.00.

Should you have any questions regarding these documents, please feel free to contact our office.

Sincerely,

JIM JOHNSON
Water Distribution Supervisor

33:kx
Enclosures

100



State of Idaho
DEPARTMENT OF WATER RESOURCES
STATE OFFICE, 450 W. State Street, Boise, Idaho

JOHN V. EVANS
Governor

A. KENNETH DUNN
Director

Mailing address:
Statehouse
Boise, Idaho 83720
(208) 334-4440

December 17, 1982

RE: Permit No. 37-7340

Sun Valley Co.
Sun Valley,
Idaho 83353

Gentlemen:

A representative of this Department made an examination of the works covered by your Permit No. 37-7340 and has found the following:

Amount of water that can be recognized as beneficially used under
Idaho law: 0.23 cfs Source: Warm Springs Creek

The maximum quantity diverted shall not exceed 73.5 acre feet
per year.

Point of diversion: Gov. Lot 3(NE $\frac{1}{4}$ NW $\frac{1}{4}$), Sec. 14, Twp. 4N, Rge. 17E,
Blaine County

Beneficial use: Commercial use for snow making within the W $\frac{1}{2}$, W $\frac{1}{2}$ SE $\frac{1}{4}$,
Sec. 14; W $\frac{1}{2}$ NE $\frac{1}{4}$, W $\frac{1}{2}$ Sec. 23; Twp. 4N, Rge. 17E

Priority date established: February 8, 1974

In order for the Department to issue the above license, it will be necessary for you to amend the permit to correspond with the findings of the field examiner. We are enclosing a partially completed amendment form for your use in this matter.

Please sign the amendment application and return it to this office along with a \$20.00 filing fee within 30 days in order that we might issue your license as set forth above. If you do not concur with these findings or have any questions, please contact us within the 30-day period.

Sincerely,

JIM JOHNSON
Water Distribution Supervisor

JJ:kw
Enclosure

DATE 12-6-1982

Sun Valley Co.
NAME OF PARTY MAX McKinnon 622-4111
EMPLOYEE Reyn Carlson

FILE 37-7340

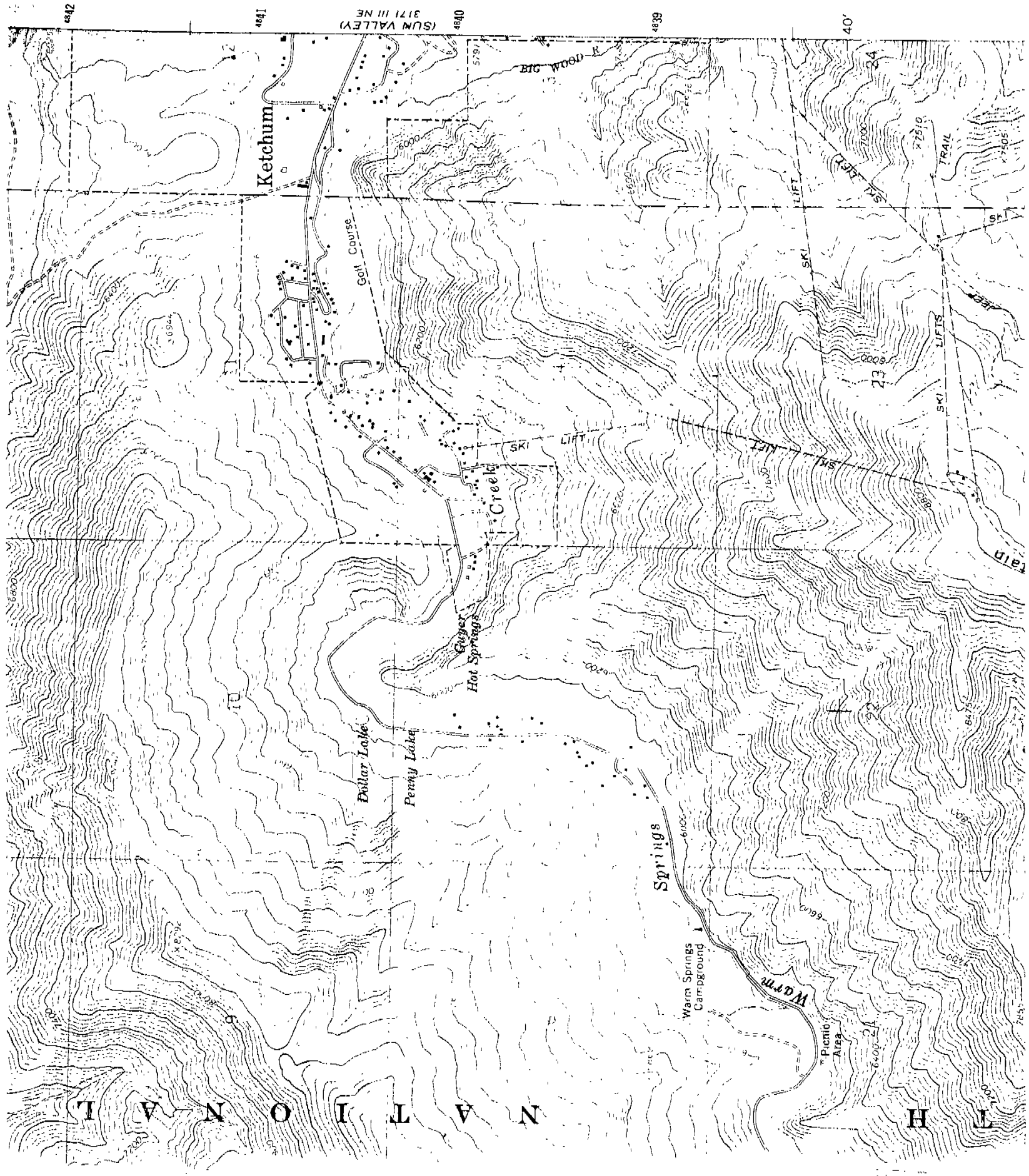
RE: _____

Today I talked with Max McKinnon, Operations Manager for the Sun Valley Co. in regards to the number of hours pumped per day & the number of days per season. He stated they pump 24 hours a day & every day of the season on most years.

MICROFILMED

RECEIVED

TOTAL ACREAGE



MEMORANDUM

FROM: Gary Funderburg

DATE: August 10, 1978

TO: File

SUBJECT: Field exams for Permits #37-7170 & 37-7340 - Sun Valley Co.

System -

Motors out of Warms Spring Creek

1. High thrust motor 200 hp Serial #C6070309-754-8519978, Johnston Pump Serial #LH1177.
2. High thrust motor 200 hp Serial #C607039-754-8519979, Johnston Pump Serial #PG-2044.
3. Westinghouse 200 hp Serial #7410, Johnston Pump Serial #PG-2045.
4. High thrust 200 hp Serial #C607039-807-85-21056, Johnston Pump Serial #PH1178.

Booster pumps upon the hill

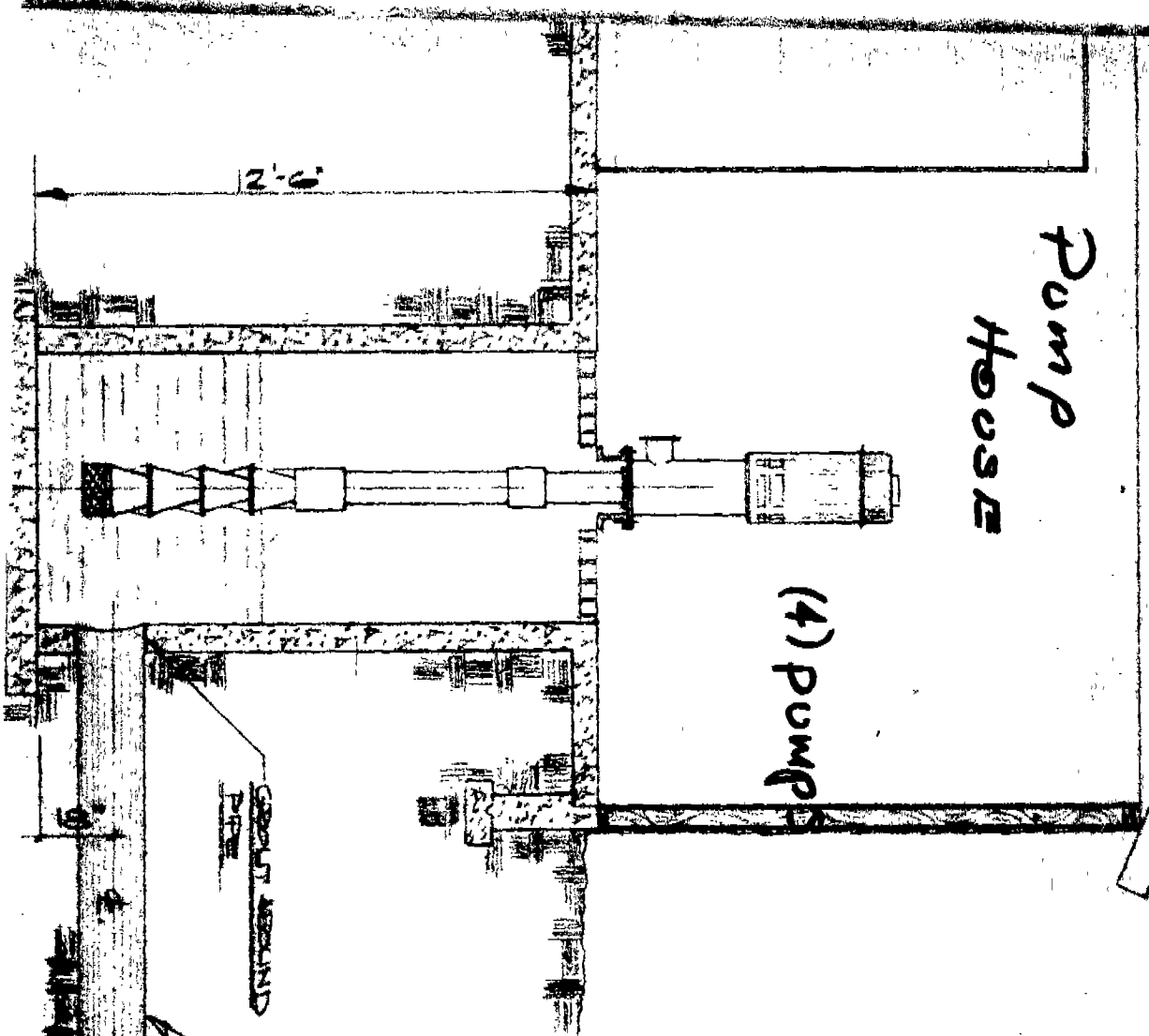
5. High thrust motor 250 hp Serial #8301065-012, Johnston Pump Serial #LK-1782.
6. High thrust 300 hp Serial #83-7-03097, Johnston Pump Serial #1297.

Four motors and pumps divert water out of Warm Springs Creek into a main-line which conveys the water 1/4 mile up the ski run to two motors and pumps. The water is then comingled with air by use of six air compressors. The water comingled with the air, sprayed into the atmosphere at low temperatures forms snow crystals which fall upon the ground in the form of snow.

Diagram A shows the four pumps taking water out of Warm Springs Creek.
Diagram B shows the location of the four pumps in relation to each other.
Diagram C shows the location of the six compressors.

Diagram "A"

SIDE VIEW OF DIVERSION
FROM WARM SPRING CR.



GROUT AROUND
PIPE

18" CONCRETE PIPE
TO BE RUN IN LEVEL

N

MINOR

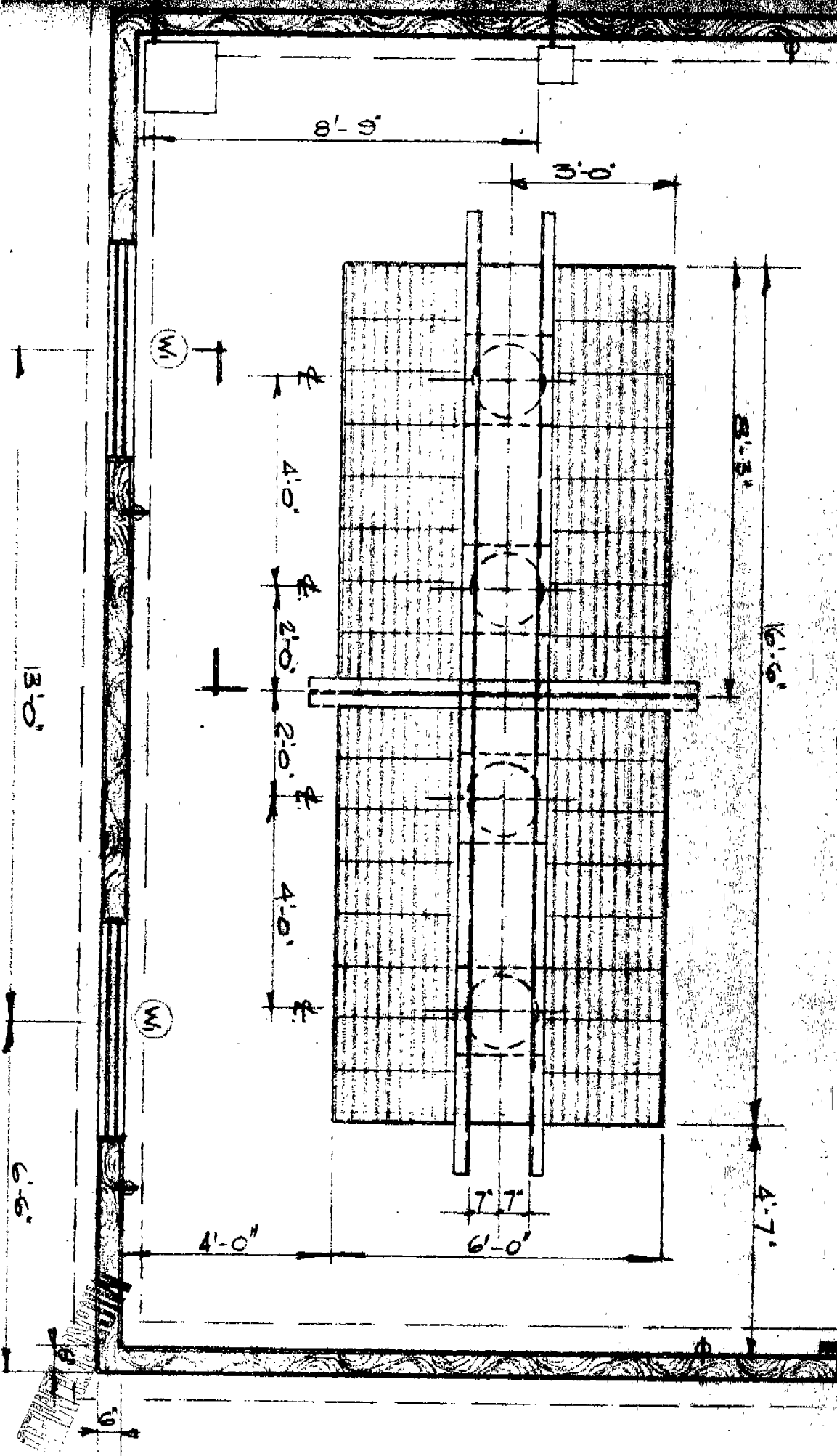
MIN. WATER LEVEL

Diagram
B

Top View of (4) pumps at

Floor Plan Division.

Scale 3/8" = 1'-0"



Top VIEW A1 COMPRESSOR 1 USE.

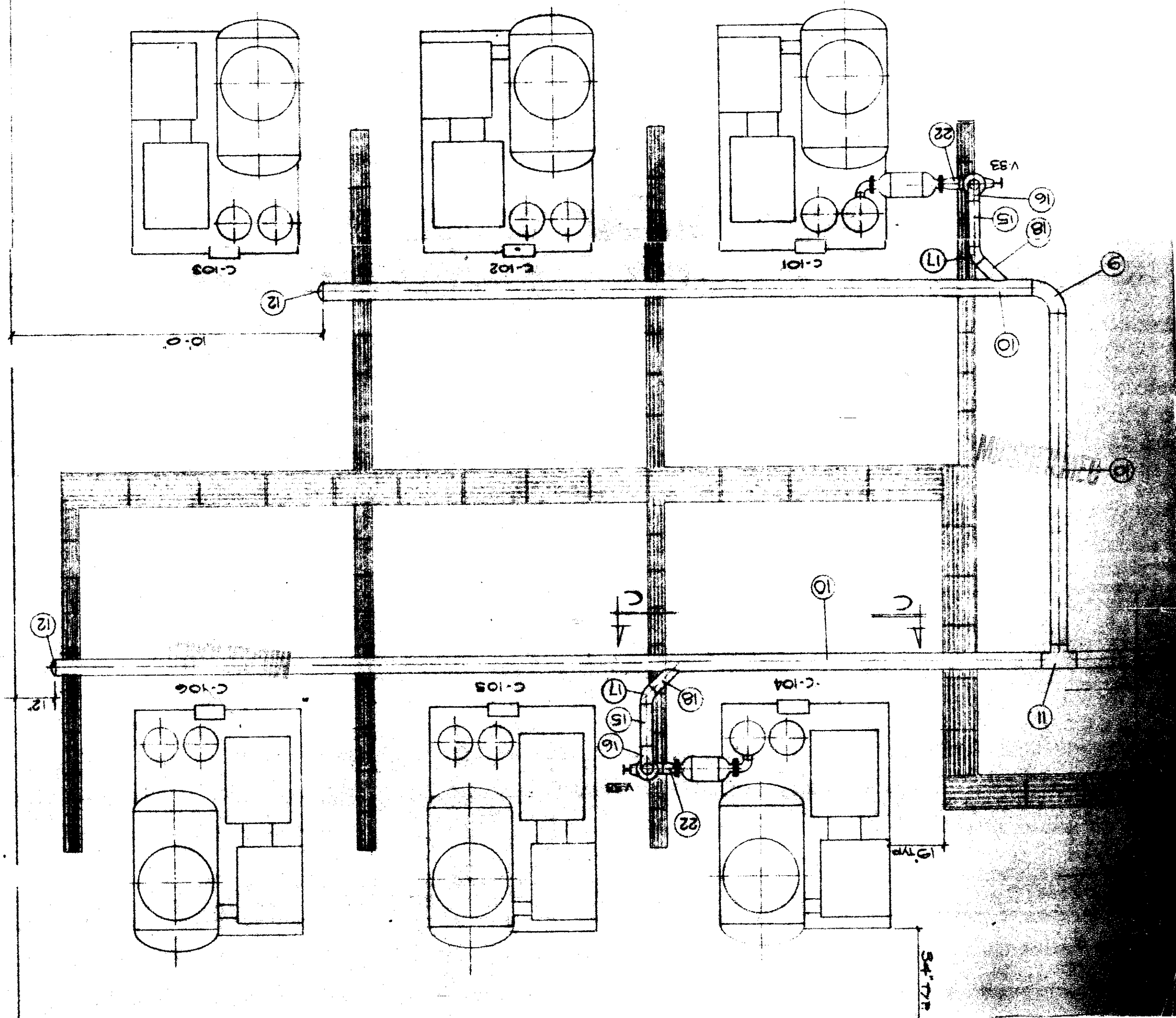
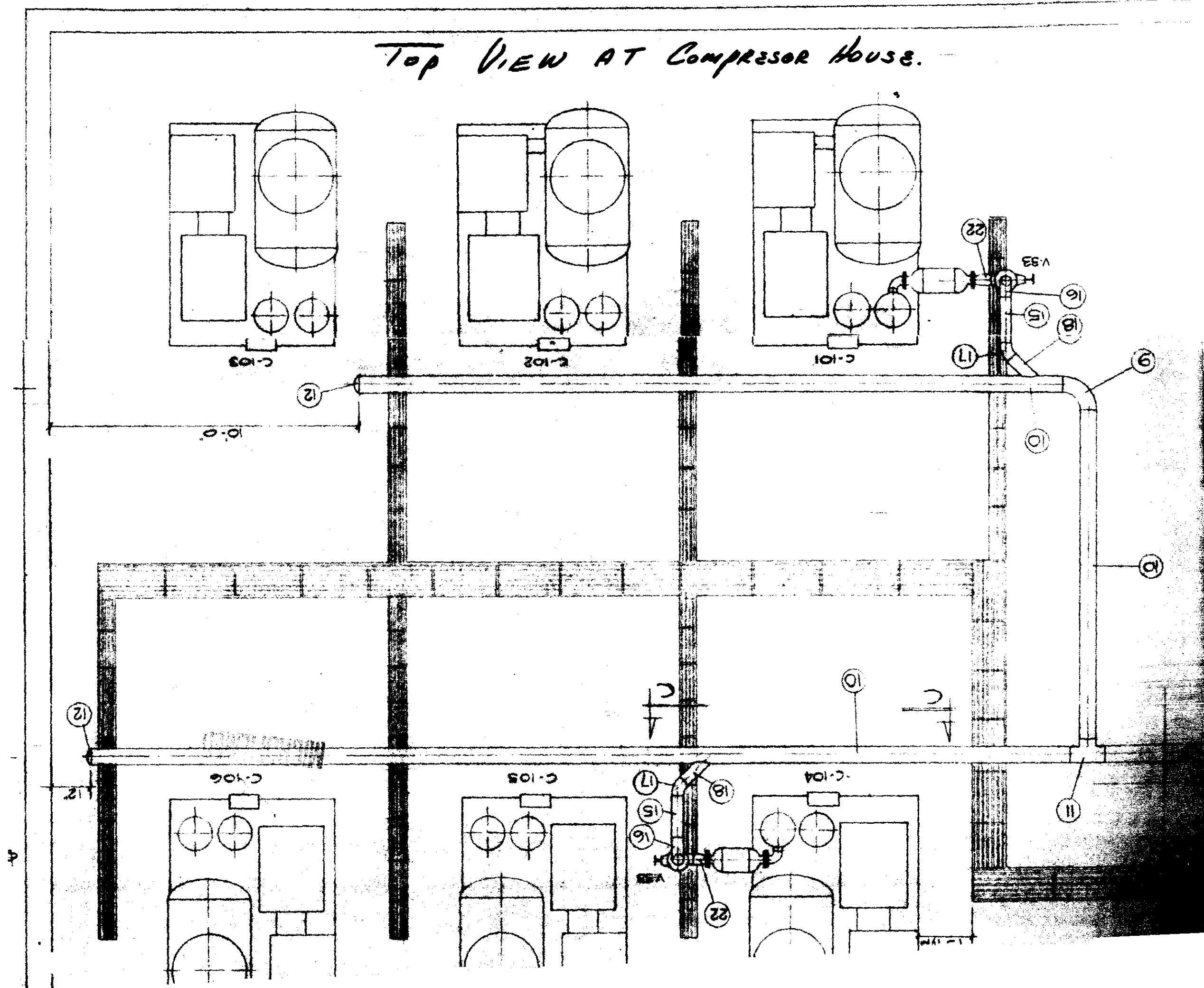


DIAGRAM
"e"

TOP VIEW AT COMPRESOR HOUSE.



DATE OF EXAM 7-27-78

ACREAGE
Found X
Recommended X

Irrigation Requirement X Ac Ft/Ac

USE
Irrigation Q = _____ c.f.s. V = _____ AF/Ann. from _____ to _____
Domestic Q = _____ c.f.s. V = _____ AF/Ann. from _____ to _____
Livestock Q = _____ c.f.s. V = _____ AF/Ann. from _____ to _____
Commercial Q = 2.23 CFS. V = 710.87 ACFT/AN. FROM 11-01 to 4-10
.23 CFS 73.5 AF → see overlap
Review

Is water co-mingled? yes _____ no ✓

Name source: _____
twp. _____ N/S, Rge _____ E/W, B.M., Sec. _____, Sub. _____ 1/4 _____ 1/4 _____
County _____

Exchange? yes _____ no ✓

Name source exchanged with: _____
twp. _____ N/S, Rge _____ E/W, B.M., Sec. _____, Sub. _____ 1/4 _____ 1/4 _____
County _____

Point of injection: _____
twp. _____ N/S, Rge _____ E/W, B.M., Sec. _____, Sub. _____ 1/4 _____ 1/4 _____
County _____

Point of exchange: _____
twp. _____ N/S, Rge _____ E/W, B.M., Sec. _____, Sub. _____ 1/4 _____ 1/4 _____
County _____

Total Q measured 1000 gal/min 2.23 CFS Method of measurement Mcrometer

Total Q recommended 2.23 CFS Meter No. 75-6-396 Type 8" Condition New

Total V recommended 710.87 ACFT/AN

Recommended Amendments:

P.D. _____
Place of Use See Amendment add W 1/2 SE Sec 14 & W 1/2 NE Sec 23
Other _____
None _____

MEASUREMENT CALCULATION:

MEASURED (1000 gal/min ÷ 448.8 gal/min CFS) = 2.23 CFS.

ALLOWED 2.23 CFS.

VOLUME 710.87 ACFT/Ann. (16 days) (2.23 CFS) (1.98 ACFT CFS)

2.23 X 1.9835 X 161 = 712.1

SYSTEM DESCRIPTION:

See ATTACHED MEMO.

See Overlap Review on back

REMARKS:

MAX McKinnon, Director of Mountain Operations
WAS PRESENT DURING THE FIELD EXAM.

Examiner's Signature Katy Sunderburg Date 8/11/78

Checked by Alla Merritt Date 9/5/78

Approved by Robyn Kelp 12/6/82 Date 8/6/80

Overlap Review

License 37-7170 2.0 d/s same T/O & P/O

System Capacity 2.23 d/s
License 37-7170 - 2.00

.23 can be licensed

$$V = .23 \times 1.9835 \times 161 = \underline{73.5} \checkmark$$

RC 12/6/82

December 13, 1977

Re: Permit No's. ~~37~~-7170, 37-7340

Sun Valley Company
Sun Valley, Idaho
83353

Gentlemen:

We acknowledge receipt of the assignment conveying the above referenced permit to you. The assignment has been entered into the Department's records.

We acknowledge receipt of the affidavit submitted as proof of beneficial use for the above referenced permit; also.

Before a license can be issued, a field examination must be made by a representative of this Department. We cannot tell just when this examination will be made, but our examiner will try to contact you at the time he makes the examination so that you may show him the system.

If you have any questions regarding the field examination, please contact our Regional Office in Twin Falls.

Sincerely,

JANICE RENK
Water Rights

Identification No. _____

Permit No. _____
RECEIVED

NOV 15 1977

019

STATE OF IDAHO

DEPARTMENT OF WATER RESOURCES

PROOF OF APPLICATION OF WATER TO BENEFICIAL USE Department of Water Resources

1. a) Name of Permit Holder Sun Valley Company
b) Post Office Address Sun Valley, Idaho 83353
2. Permit Number #37-7340
3. Date of Priority that you are prepared to establish 10-31-72
4. a) Source from which water was appropriated Warm Springs Creek
b) Location of the point of diversion: Lot 3 XXXX 1/4, Section 14
Township 4N Range 17E Boise Meridian, Other points of diversion:
5. a) The amount of water and use to which the water has been applied:
Amount 26.49 acre ft. for Snowmaking purposes from Nov. 1 to April 10 incl.
(cfs and/or acre-feet per annum) (Month-Day) (Month-Day)
Amount _____ for _____ purposes from _____ to _____ incl.
(cfs and/or acre-feet per annum) (Month-Day) (Month-Day)
Amount _____ for _____ purposes from _____ to _____ incl.
(cfs and/or acre-feet per annum) (Month-Day) (Month-Day)
b) Total amount appropriated 26.49 acre ft. cfs and/or acre-feet per annum
c) Describe how and by whom measurement of rate of flow or amount of storage was made and the qualifications of the person making the measurement: McCrometer - flow measurement metering device
Log by total gallons
6. If the means of diversion and conveyance are owned by someone other than the Permit Holder:
a) Give the name or description of the canal, ditch or other works by which the water is conducted to the place of use:
NA
b) Describe the agreement or understanding by which you take water from the works:
NA
7. a) Briefly describe the works for diverting and conveying the water to the place of use, (if from a subterranean source, give the pump size, motor size, size of well casing, depth of well; if from surface water, give brief description of diversion structure and/or canal or ditch) Subterranean drop structure located in center of Warm Springs Creek - water flows to pit located inside pump house via 12" concrete pipe.
b) Describe the type and size of measuring device which you have installed at your point of diversion: McCrometer propeller weld on saddle meter model #756396
c) Give well driller's name and address and the date the well was completed: NA
8. If for other than irrigation, describe the beneficial use to which you have applied the water and the place of use: The water is used for snowmaking on Flying Squirrel, Mid and Lower Warm Springs ski runs, Bald Mountain ski area.

Received 11/2/78

9. Irrigation uses: describe the lands irrigated by giving the acreages irrigated within each 40 acre subdivision: NA

T	R	SEC.	NE¼				NW¼				SW¼				SE¼				TOTAL
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	

Total number of acres irrigated _____

10. Remarks: Permit #37-7340 is used in addition to permit #37-7170.
Use will be non-consumptive except for evaporation.

The above information is a true statement of the extent to which the above numbered permit has been developed.

11/11/77
(Date)

William J. Ricks
(Signature)
General Mgr.

State of Idaho)
County of Blaine) ss.

On this 11th day of November, 1977, personally appeared before me the signer(s) of the above instrument, who duly acknowledged to me that he (she) (they) executed the same.

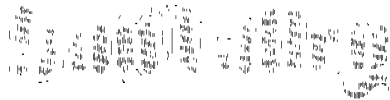
Cecil Ricks
Notary Public residing at Hailey, Idaho

My commission expires December 1977

RECEIVED

NOV 15 1977

Department of Water Resources



November 11, 1977

Mr. Bobby D. Fleenor
Assistant Director
State of Idaho
Department of Water Resources
Statehouse - Annex 2
Boise, Idaho 83707

Dear Mr. Fleenor:

As per our recent telecon we are submitting along with proof of application of water to beneficial use regarding permit #37-7170, beneficial use affidavit regarding permit #37-7340.

Permit #37-7170 was originally for 2 cubic feet per second and was increased by 4 cubic feet per second by obtaining permit #37-7340 for a total of 6 cubic feet per second.

The installation is complete and corresponds to the plans submitted to your office with the required metering device installed.

Please contact me should any further information be required.

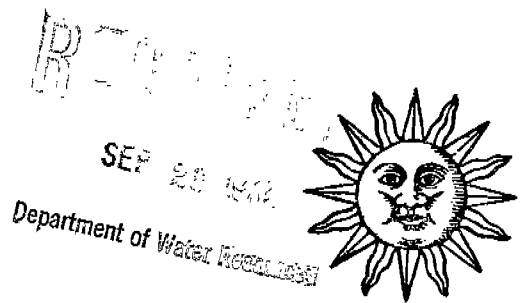
Sincerely,

Max McKinnon
Director of Mountain Operations
Sun Valley Company

MM/jw

Enclosures

America's First and Finest All Seasons Resort.
Sun Valley Company Inc. / Sun Valley, Idaho 83353 / Telephone 208-622-4111



Sun Valley

September 23, 1974

Mr. Bobby Fleenor
Chief, Water Rights
Department of Water Resources
State Capital
Boise, Idaho 83720

BDF

Dear Mr. Fleenor:

Regarding our water permit # 37-7340, we wish to thank you for your consideration of our request through our engineering firm, Alford & Associates, to waive the metering device requirement.

With this letter we wish to inform you that we are ordering the device immediately and will incorporate the device in our discharge system per your regulations.

We will forward a drawing of the installation of this device and the type of device used as soon as our engineering firm forwards the data to us.

Again, thank you for your consideration in this matter.

Sincerely,

SUN VALLEY COMPANY INC.

Max McKinnon
Max McKinnon
Director
Mountain Operations

cc: Peter Alford

MMcK/mp

RECEIVED
SUN VALLEY, IDAHO 83353 TELEPHONE (208) 622-4111

August 29, 1974

Re: Permit No. 37-7340 - S74205

P. B. Alford
Alford Associates
P. O. Box 25
London, Ontario N6A 4V3

Dear Mr. Alford:

Your request for removal of a measuring device from Water Permit No. 37-7340 in the name of Sun Valley Company, Inc., has been received.

The installation of measuring devices is required for several reasons, one of which is the administration of the water user, another is the determination of the amount of water diverted to a beneficial use so that a water right license can be issued for that amount. A third use for the measuring device is that of providing information to the owner for the efficient management of the water resource.

You have adequately made the point that the use will not exceed the permitted rate of diversion, but you also have indicated how difficult it would be to determine the amount of water actually diverted.

Therefore, the condition requiring the installation of an adequate measuring device must remain on this permit.

Sincerely,

BOBBY D. FLEENOR
Chief, Water Rights

BDF:jg

cc: Sun Valley Company, Inc.

MICROFILMED



Engineering Consultants . . . for Recreational Utilities

RECEIVED

AUG 22 1974

Department of Water Resources

August 16, 1974

OUR FILE NO. S74205
WATER PERMIT: #37-7340

Mr. Bobby Fleemor
Chief, Water Rights
Department of Water Resources
State Capital
Boise, Idaho 82720

Department of Water Resources	
Director	RKA
Planning	
Operations	AD
Board	
File	
Water Rights	

Dear Mr. Fleemor:

Our firm has been retained by Sun Valley Company Inc., to design the water support system for the ultimate snowmaking system covering the Warm Springs side of Baldy Mountain in Ketchum, Idaho. The subject Water Permit #37-7340 has been issued by the Department of Water Resources to enable Sun Valley to withdraw water from Warm Springs Creek at the volumetric rate not to exceed four (4) cubic feet per second (4 cfs).

Mr. Max McKinnon, Director of Mountain Operations at Sun Valley, has forwarded copies of correspondence from your office, in which you have requested that a metering device be installed in the water pump discharge system to provide accurate measurement of the rate of water withdrawn from Warm Springs Creek.

I contacted your office by phone on Tuesday, August 13, 1974, in an effort to establish the primary purpose of this metering equipment. Although your secretary was not able to provide certain answers, she was very cooperative in supplying me with as much specific information as possible. She felt that the primary purpose of the metering equipment was to provide your department with "policing" capabilities, with which you could periodically check the rate of water consumption under full load conditions. Your secretary did not think that the metering equipment was being requested to monitor monthly total consumption figures that could be used for billing purposes.

If this is the case, I would like to have you consider waiving this metering equipment requirement on the basis of the fact that design characteristics of the water pumping system are such that even under highly improbable, but technically possible, operating conditions, the maximum water pumping capacity of the ultimate system would not exceed the volumetric capacity

P. B. ALFORD & ASSOCIATES INC.

P.O. Box 25 • London, Ontario N6A 4V3 • (519) 679-8240
244 Ludlowville Road • Lansing, N.Y. 14882 • (607) 533-7205
15 Avon Street • Keene, N.H. 03431 • (603) 352-7664

of the Water Permit. I have attempted to correlate a hypothetical situation below, which would represent the technically possible, but practically improbable situation that would represent maximum water flow.

Four (4) cfs has been converted into another unit of flow, gallons per minute (gpm). The reason for this is that pumping capacities and snowmaking equipment capacities are both normally expressed in this unit of flow. Based on water at 40° F, four (4) cfs is equivalent to 29.92 gallons per second, and this represents approximately 1795 gpm (29.92×60).

The water support system that has been designed for the snowmaking installation at Sun Valley is to be installed in two phases. In Phase I, being completed during the summer of 1974, two (2) water pumps will be installed, in parallel, with each pump rated at 350 gpm/1400 ft. TDH. This would yield a total Phase I capacity of 700 gpm/1400 ft. TDH. In Phase II, expected to be completed during the summer of 1975, two (2) additional water pumps with identical technical characteristics will be installed, in parallel with the two (2) pumps that had been installed in Phase I. This ultimate system would have a total capacity of 1400 gpm/1400 ft. TDH. For your reference, I am enclosing a typical curve for these pumps.

The discharge from this pumping installation will feed into a subterranean piping distribution system; and this distribution system will have 2 inch riser/hydrant assemblies spaced at intervals of approximately 200 feet. Each riser/hydrant assembly is equipped with a pressure equalization orifice, which has been sized to restrict pressure and flow in lower portions of the mountain distribution system.

Under conditions of normal operation water flow through snowmaking equipment attached to various riser/hydrant assemblies would be further restricted by means of throttling valves on each snowmaking unit. Maximum volumetric water flow would occur if this throttling valve at each snowmaking unit was wide open; but, the "wet" snow that would be produced under these operating conditions would make it extremely improbable that this condition would ever occur. Nevertheless, let us assume that this maximum flow condition did occur, so that we may calculate the maximum volumetric rate of water flow conceivably possible through this water pump/piping distribution system.

On the basis of the water support capacity in Phase I, a maximum of four (4) high volume snowmaking units would be purchased by Sun Valley. The worst conceivable condition under which these units could be used would be on the lowest four (4) riser/hydrant assemblies with each unit's throttling valve fully open. The maximum volumetric flow through each unit has been calculated using the following basic hydraulic equation:

ENCLOSURE

August 16, 1974

- 3 -



$$Q = (19.636) (K) (d)^2 \sqrt{h}$$

where:

Q = flow, in gpm
d = diameter of orifice opening, in inches
h = differential head at orifice, in feet of water
K = discharge co-efficient

The orifice discharge co-efficient K would vary from 0.50 when freshly machined, to 0.65 after 800-1000 hours of operation. On the assumption that Sun Valley would replace these orifices each year; and, on the assumption that annual operation would range from 600 to 700 hours; it is safe to assume that K would never exceed 0.65, even if it ever wore to a point where K = 0.65.

The specific diameters of orifice openings on the bottom four (4) riser/hydrant assemblies are:

Hydrants 1 through 3 inclusive	0.50 inch
Hydrant 4	0.625 inch

For the sake of maximizing the flow calculation, the differential head at each riser/hydrant assembly has been adjusted to reflect static head only (difference in elevation). No adjustment has been made for friction losses, or dynamic pressure at discharge, which would both combine with the static head loss to reduce volumetric flow even further.

Based on the foregoing conditions the maximum flow at the bottom four (4) riser/hydrant assemblies would be as follows:

<u>Hydrant</u>				<u>Flow</u> <u>(gpm)</u>
1	$Q = (19.636) (0.65) (0.5)^2$	$\sqrt{1400}$		119.39
2	$Q = (19.636) (0.65) (0.5)^2$	$\sqrt{1365}$		117.89
3	$Q = (19.636) (0.65) (0.5)^2$	$\sqrt{1360}$		117.67
4	$Q = (19.636) (0.65) (0.625)^2$	$\sqrt{1280}$		178.37
Phase I: Maximum Flow				<u>533.32</u>

On the basis of water support capacity in the ultimate system, a maximum of eight (8) high volume snowmaking units would be purchased by Sun Valley. Again, the worst condition under which these units could be used would be on the lowest eight (8) riser/hydrant assemblies, with each unit's throttling valve fully open.

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AUG 21 1974

Using the same basic hydraulic equation and a K-valve of 0.65 for the orifice discharge co-efficient, I have calculated the maximum flow at the next four (4) riser/hydrant assemblies (Hydrant 5 through 8, inclusive).

The specific diameters of orifice openings on these next four (4) riser/hydrant assemblies are:

Hydrants 5 through 7 inclusive	0.75 inch
Hydrant 8	0.875 inch

Again, the differential head at each riser/hydrant assembly has been adjusted only on the basis of static head. The maximum flow at these next four (4) riser/hydrant assemblies would be as follows:

<u>Hydrant</u>			<u>Flow (gpm)</u>
5	$Q = 19.636 (.65) (.75)^2$	$\sqrt{1230}$	251.79
6	$Q = 19.636 (.65) (.75)^2$	$\sqrt{1180}$	246.62
7	$Q = 19.636 (.65) (.75)^2$	$\sqrt{1130}$	241.34
8	$Q = 19.636 (.65) (.875)^2$	$\sqrt{1080}$	321.14
Maximum Flow			<u>1060.89</u>

Combined with the Phase I Maximum Flow, this would yield a total ultimate maximum flow of 1594.21 gpm. This is only 88.8% of the allowable flow issued in conjunction with Water Permit #37-7340. It should be emphasized that the maximum flow rate calculated above is very definitely considered to be improbably high. Parameters that have not been considered, but which would reduce this calculated flow rate even further are:

- (a) Friction Losses
- (b) Discharge Pressure
- (c) The orifice discharge co-efficient might never reach 0.65.
- (d) It is highly improbable that operating conditions would ever be encountered in which all snowmaking units would be on-stream, under conditions of zero throttling.

On the basis of the foregoing considerations, we have no reservations in stating that the water support system, as presently designed, would never be capable of exceeding, or even achieving the volumetric flow rate of 4 cfs.

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AUG 20 1974
WATER DIVISION

August 16, 1974

- 5 -

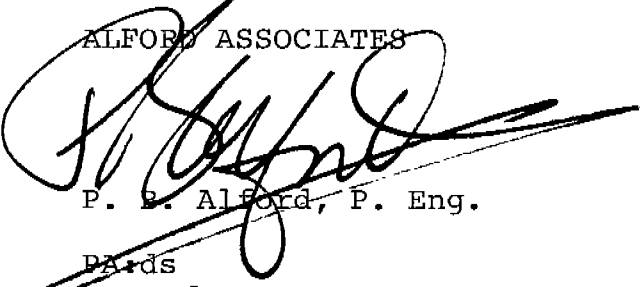


In view of the relatively high capital investment necessary to install a quality water meter, with adequate hydraulic characteristics and volumetric capacity to periodically measure water flow rates primarily to insure compliance with the Water Permit; and, the technical constraints which assure that the permitted level of volumetric flow would never be achieved or exceeded; we respectfully request, on behalf of our Client, that you waive this metering equipment requirement.

By copy of this letter, I am providing Mr. McKinnon with this technical information, so that if you have any questions regarding any aspect of this request, you may contact either Mr. McKinnon at Sun Valley, or myself at our London, Ontario office.

Yours sincerely,

ALFORD ASSOCIATES



P. B. Alford, P. Eng.

PA:ds

Enc. 1

c.c.--Mr. Max McKinnon
Sun Valley Co. Inc.

RECEIVED
AUG 21 1974
SUN VALLEY CO. INC.

File # 37-7340

Engineer called con-
cerning measuring de-
vice requirement.

Is going to send a
letter asking for
removal of it as
soon as possible.

8/12/74 Jan

RECORDED

July 11, 1974

Re: Permit No. 37-7340

Mr. Max McKinnon
Sun Valley Co., Inc.
Sun Valley, ID 83353

Dear Mr. McKinnon:

You recently sent us the plans of your structure for diverting water from Warm Spring Creek.

A comparison of your proposed installation with your Permit No. 37-7340, shows that your permitted rate of diversion is sufficient to cover the amount of water that these pumps will deliver.

We notice that the plans do not show the measuring device that must be installed. The water meter may be installed in the discharge line, after the lines from the four pumps are joined together. Any of the commercial typesmeters are acceptable for installation.

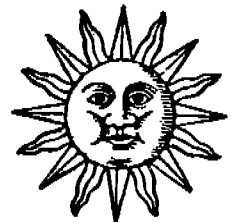
Please do not hesitate contacting us if you have further questions on this matter.

Sincerely,

BOBBY D. FLEENOR
Chief, Water Rights

BDF:jg

RECEIVED
JUL 11 1974



Sun Valley

June 24, 1974

RECEIVED

JUN 26 1974

Mr. Bobby D. Fleenor
Assistant Director
State of Idaho
Department of Water Administration
State House - Annex #2
Boise, Idaho 83702

Department of Water Administration

Dear Mr. Fleenor:

Enclosed please find a print showing the type of structure we desire to have approved as part of our Permit #37-7340 to draw water from Warm Springs Creek of the Big Wood River.

We have also enclosed a data sheet on the pump. We will eventually have four of these pumps in service as part of this one structure.

Would you please review these prints and inform us as to what other information you require to initiate approval of this request.

Thank you for your assistance.

Sincerely,

SUN VALLEY COMPANY INC.


Max McKinnon

Director, Mountain Operations

MMcK/mp

Enclosures

cc: Wally Huffman

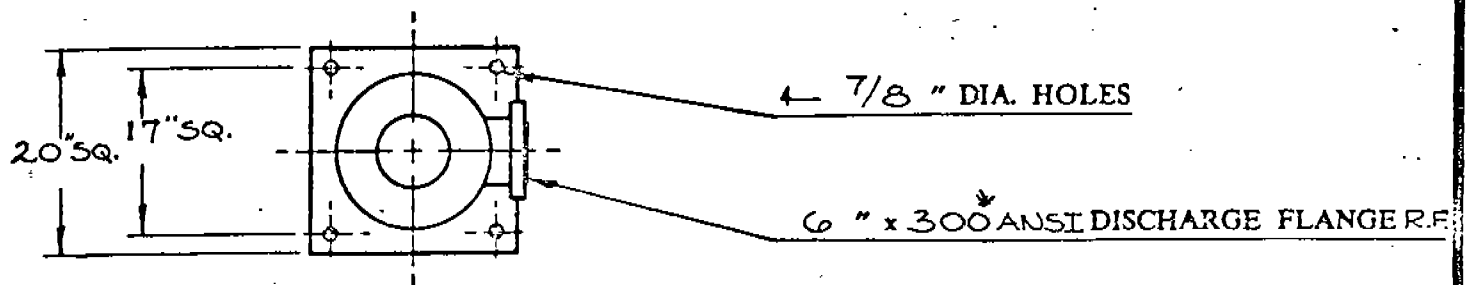
RECEIVED

SUN VALLEY, IDAHO 83353

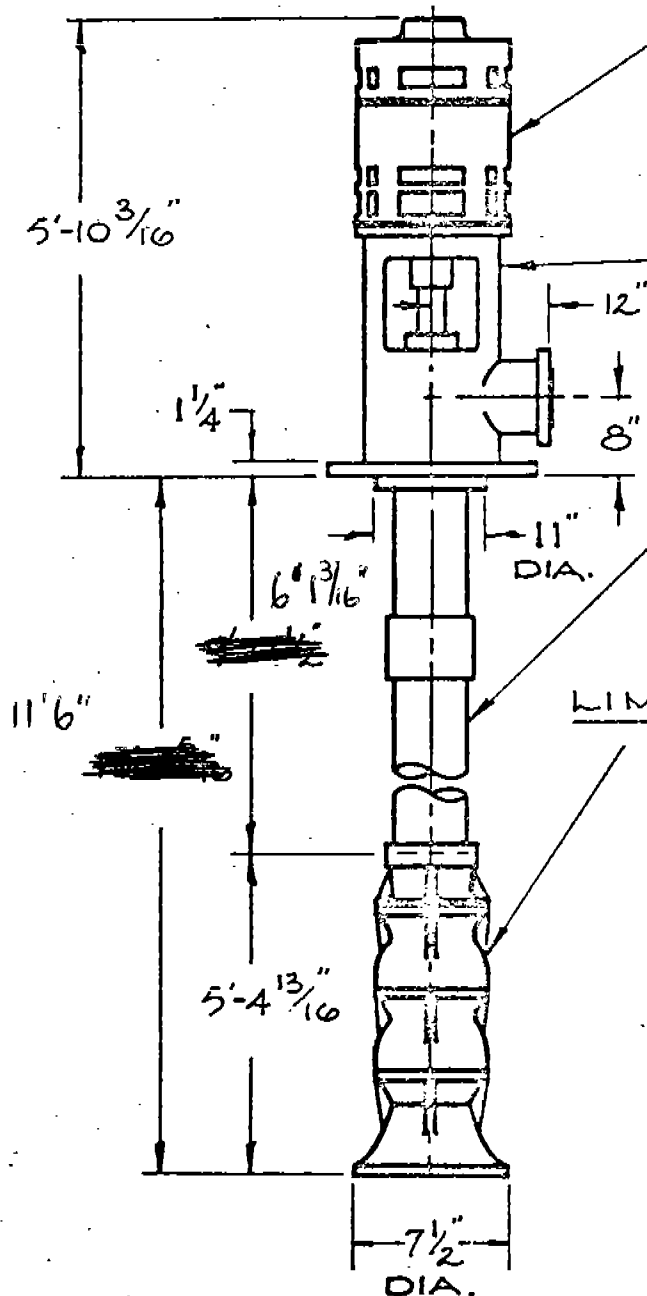
TELEPHONE (208) 622-4111

37-7340

JOHNSTON VERTICAL TURBINE PUMP



U.S. ELECTRIC
VERTICAL HOLLOW SHAFT MOTOR
HP- 250 PHASE- 3 CYCLE- 60
VOLTAGE- 460 RPM- 3600
ENCLOSURE- WEATHER PROT. I
W/ 175 % EXTRA THRUST



FAB. TYPE "A" DISCHARGE HEAD- 10 1/2" x 6"

2F ADJ. FLG'D CPLG; 304SS.
HD. SHAFT SLEEVE- HARD FACED
COLUMN ASSEMBLY- 6" x 1 1/2" W.L.

BOWL ASSEMBLY- 10 STAGE 8AC
C.I. CL 50 TOP 4 BOWLS & DISCH. CASE
ALL BOWLS "O" RINGED
PUMP SHAFT HEAT TREATED
BOWL WEAR RINGS: 410 ST. STL.
U.S. GALLONS PER MINUTE- 350
TOTAL DYNAMIC HEAD IN FT.- 1400
LIQUID- WATER
SPEC. GRAV. 1.0 @ AMB. °F. TEMP.

CUSTOMER

PO#

DEALER: MID-CONT. ENGR. CORP.

PO# 4E 138

JOHNSTON SERIAL NO. PG-2045

JOHNSTON QUOTATION NO.

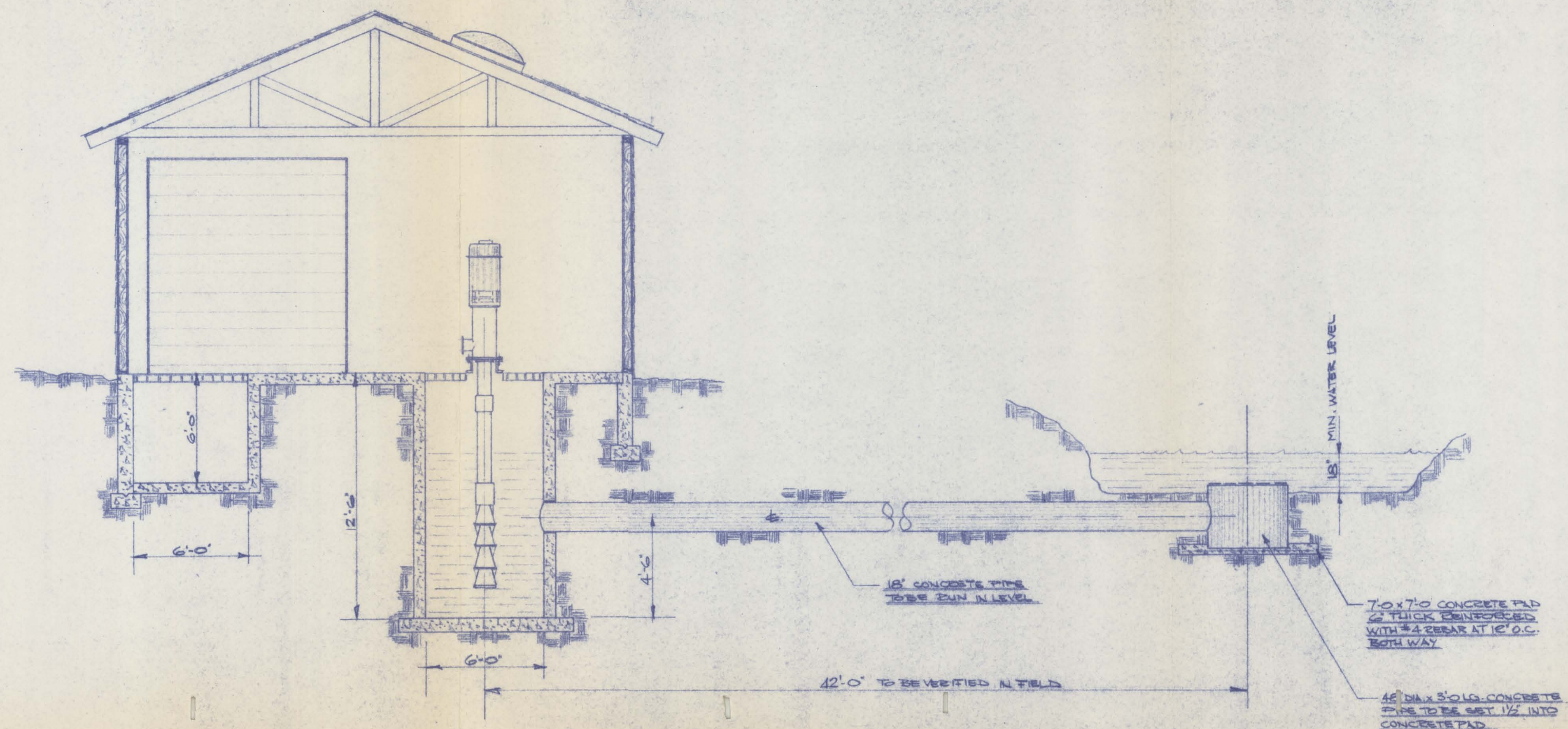
NOTE: DO NOT USE FOR CONSTRUCTION
UNLESS CERTIFIED

THIS PRINT CERTIFIED
CORRECT BY
JOHNSTON PUMP COMPANY
Original Signed by
H. A. J. GREUTINK

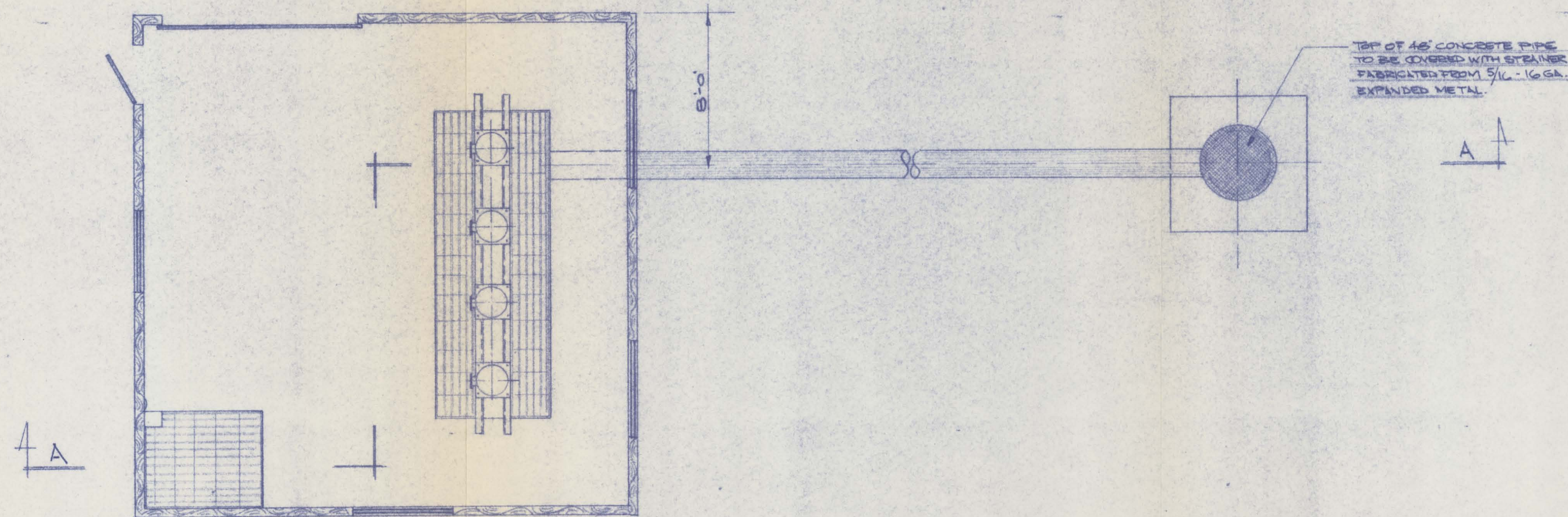
JOHNSTON PUMP CO.
GLEN DORA, CALIFORNIA

M.G.L. 5/74

11-2804-A



SECTION A-A



No.	DATE	REVISION	By
AA Alford Associates			P.B. Alford & Associates Inc. Colorado - New Hampshire - New York - Ontario
SUN VALLEY SKI AREA			Project Office Colorado
PRIMARY WATER SUPPLY			Job No. 674205
Scale 1/4" = 1'-0"	Date JUNE 4/74	Checked	Drawn Beung
			Drawing No. 15X-005

March 28, 1974

Re: Permit No. 37-7340

Sun Valley Co. Inc.
Sun Valley,
Idaho 83353

Gentlemen:

Enclosed is a copy of your approved Application for Permit No. 37-7340. We direct your attention to the conditions of approval as listed on the fourth page.

Be sure to note that a special condition requiring you to install and maintain a measuring device at your point of diversion has been placed upon your permit. We are enclosing a letter describing different types of measuring devices accepted by this office.

Sincerely,

BOBBY D. FLEENOR
Assistant Director

BDF/bjg

Enclosures

37 7340

February 8, 1974

RE: Application No. 37-7340 - Sun Valley Co. Inc.

U. S. Forest Service
1075 Park Boulevard
Boise, Idaho 83706

Gentlemen:

This is to advise you that the above referenced application for permit has been filed with this Department in connection with a Forest Service land entry. A copy of the application is enclosed for your reference.

If we can be of any further assistance, please contact us.

Very truly yours,

Bob Haynes
Southern District Engineer

BH:lt

enc.

37 7340

February 8, 1974

RE: Application No. 37-7^{LT}340 - Sun Valley Co., Inc.

Wood River Journal
P.O. Box 988
Hailey, Idaho 83333

Gentlemen:

Enclosed you will find a legal notice which we wish to have published once a week for two consecutive weekly issues of your newspaper. We have inserted the publication dates allowing ample time for you to submit us a galley proof for review before publication.

After sending us a galley proof, proceed with the publication on the dates we have inserted, assuming the notice is correct. If we have any corrections, we will notify you before the first publication. If you cannot publish the notice on the proposed dates, please contact us immediately.

An affidavit of publication must be submitted to the Department along with the publication bill. In order to receive payment, the following certification must appear on the bill:

"I hereby certify that the foregoing account is just and correct, that the amount claimed is legally due, after allowing all just credits, and that no part of the same has been paid."

(signature of claimant)

Very truly yours,

Bob Haynes
District Engineer
Southern District

Bill submitted 3-5-74 LT

37 7340

OVER 23

NOTICE OF APPLICATION
FOR WATER PERMIT

Notice is hereby given that Sun Valley Co., Inc., Sun Valley, Idaho, has on 2-8-74 submitted Application No. 37-7340 for a permit to appropriate 4 cubic feet per second of water from Warm Springs Creek, tributary of Big Wood River by means of pump within the Lot 3, Sec. 14, T. 4N, R. 17E, S.M., Blaine County to be used from Nov. 1 to April 30 for snowmaking within the W12, Sec. 14, Sec. 23, T. 4N, R. 17E, S.M.

If issued, this permit will be subject to all prior water rights. Protests against the granting of the permit must be filed with the Idaho Department of Water Administration, 1041 Blue Lakes Blvd., North, Twin Falls, Idaho 83301 on or before March 11, 1974.

R. Keith Higginson
Director

Published: Wood River
Journal, Blaine County,
February 21 and 23, 1974.

2-21-74
OK LT

NOTICE OF APPLICATION FOR WATER PERMIT

Notice is hereby given that Sun Valley Co. Inc.
Sun Valley, Idaho
has on 2-8-74 submitted Application No. 37-7340^{LT}
for a permit to appropriate 4 cubic feet per second ~~acres feet per annum~~ XXXXXXXXXXXXXXXXXXXX
of water from Warm Springs Creek, tributary of Big Wood River
by means of pump
within the Lot 3, Sec. 14, T 4N, R 17E, B.M., Blaine County

to be used from Nov. 1 to Apr. 10
for snow making

within the W₂, Sec. 14, Sec. 23, T 4N, R 17E, B.M.

If issued, this permit will be subject to all prior water rights. Protests against the granting of the permit must be filed with the Idaho Department of Water Administration, 1041 Blue Lakes Blvd. North, Twin Falls, Idaho, 83301 on or before March 11, 1974.

R. KEITH HIGGINSON

Director

Published in the Wood River Journal
on Feb. 21 and Feb. 28, 1974

37 7340

February 8, 1974

RE: Application No. 37-7440

Mr. K. Zimmerman #502
Sun Valley Co., Inc.
Sun Valley, Idaho 83353

Dear Mr. Zimmerman:

Enclosed is your Receipt No. 1²~~8~~802 for Check No. 92-309
in the amount of \$55.00 for the above referenced application for permit
which was received in this office this date.

Sincerely,

Lydia L. Tippet
Secretary

enc.

37 7310

February 5, 1974

Mr. K. E. Zimmerman
Golf & Mountain Director
Sun Valley Co.
Sun Valley, Idaho 83353

Dear Mr. Zimmerman:

We are returning your application for permit and check 92-309 in the amount of \$55.00. We must have some clarification as to your position with Sun Valley Company. Normally we do not accept applications for permit from a corporation or company unless it is signed by one of the officers -- president, vice-president or secretary. If it would be possible to have this done, we are sending a blank application so that your information may be re-submitted with their signature on it.

Please draw a map on the new application indicating your point of diversion and place of use.

Your earlier permit (37-7170) indicated a place of use of the W₂ of Section 14 and 23, T. 4N, R 17E, B.M. In this application you have indicated that it will only be used in the W₂ of Section 23. Is this correct or just an oversight?

If we can be of any further assistance to you, please do not hesitate to call us.

Very truly yours,

Ken Flowerdew
Water Resource Technician II

KF:lt

Enc.

37 7340