State of Idaho

Department of Water Resources

WATER RIGHT LICENSE

License of Water Right No. 95-7763 Priority August 29, 1977 (late proof) Amount 3.0 cfs

THIS IS TO CERTIFY, that Honeysuckle Hills Owners Association, Inc.

of Hayden Lake, Idaho, has complied with the terms and conditions of Permit No. 95-7763 issued pursuant to Application for Permit dated August 5, 1977, and has submitted proof to the Department of Water Resources on August 14, 1979, 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 3.0 cfs of water from a groundwater source, tributary to _____, 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
Domestic (957 units)	from January 1 to December 31	at 3.0 cfs	and 1148.4 acre feet
	from _____ to _____ (both dates inclusive)	at _____ cfs	and _____
	from _____ to _____	at _____ cfs	and _____

Subject, however, to the condition that no more than 3.0 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 1148.4 acre feet per year, said waters to be diverted within the NE¼SE¼ Section 23, Twp 51N, Rge 4W in the County of Kootenai

Description and location of place of use:

Twp.	Range	Sec.	NE¼				NW¼				SW¼				SE¼				Totals
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	
51N	3W	19						X	X	X	X	X	X	X	X	X	X	X	
		20	X	X	X	X				X	X	X	X	X	X	X	X	X	
		21											X	X					
		30	X	X	X	X	X	X	X	X	X								
51N	4W	24	X			X													

Total number of acres irrigated _____

Place of Use known as Honeysuckle Hills, Hayden View Estates, Woodland Heights, and Chalet.

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 20TH day of September, 19 83.

Norman C Young

Director

BEFORE THE DEPARTMENT OF WATER RESOURCES

OF THE

STATE OF IDAHO

IN THE MATTER OF CHANGING THE MEASURING DEVICE REQUIREMENT FOR PERMIT NO. 95-7763

ORDER

WHEREAS, the above numbered permit was approved with the condition that a measuring device of a type approved by the Department be permanently installed and maintained as part of the diverting works; and,

WHEREAS, on July 1, 1978, the Department adopted a new water measurement condition which states: "An access port or other device as specified by the Department shall be installed by the permit holder to provide for the installation of measuring equipment and the determination of the rate of diversion by the Department"; and,

WHEREAS, the former condition required the permit holder to purchase and install a measuring device or hire a professional engineer to certify the rate of diversion; and,

WHEREAS, the measuring device condition effective July 1, 1978, requires less capital expenditure by the permit holder; and,

WHEREAS, to be equitable to holders of permits issued prior to July 1, 1978, the new condition should be retroactive;

NOW THEREFORE, it is hereby ordered that the condition of approval of this permit related to water measurement is hereby changed as follows: "The permit holder shall either install a measuring device or provide a certified measurement by a professional engineer or install an access port or other device as specified by the Department".

Dated this 18th day of August, 1978.

C. STEPHEN ALLRED
Director

BEFORE THE DEPARTMENT OF WATER RESOURCES

OF THE

STATE OF IDAHO

IN THE MATTER OF REINSTATING AND EXTENDING THE PROOF DUE DATE IN CONNECTION WITH PERMIT NO. 95-7763 IN THE NAME OF HONEYSUCKLE HILLS OWNERS ASSN., INC.	ORDER

WHEREAS, on August 5, 1977, Honeysuckle Hills Owners Association, Inc. applied to the Department of Water Resources for a permit to appropriate 5 cubic feet per second of water from a groundwater source to be diverted within the NE¼SE¼, Sec. 23, Twp. 51N, Rge. 4W B.M., Kootenai County, to be used for domestic purposes; and,

WHEREAS, on September 23, 1977, the Department approved said application and issued Permit No. 95-7763 with the condition that proof of construction of works and application of water to beneficial use be submitted to the Department of Water Resources on or before October 1, 1978; and,

WHEREAS, on September 26, 1978, the permit holder's engineering consultants, LePard and Frame, Inc. submitted a request for an extension of time; and,

WHEREAS, the Department notified the permit holder that a power of attorney must be given to LePard and Frame, Inc. before the Department could consider the request for extension of time; and,

WHEREAS, on October 19, 1978, the Department notified the permit holder that Permit No. 95-7763 had lapsed for failure of the permit holder to submit proof of beneficial use; and,

WHEREAS, on October 25, 1978, the Department received a letter giving the firm of LePard and Frame, Inc. power of attorney;

IT IS, THEREFORE, HEREBY ORDERED that Permit No. 95-7763 be reinstated and the priority date advanced to August 29, 1977.

IT IS FURTHER ORDERED that the time within which to submit proof of beneficial use is extended to October 1, 1979.

Dated this ~~22~~ 2nd day of January, 1979.

L. Glen Saxton

L. GLEN SAXTON
Chief, Operations Bureau

Identification No. _____

Application No. 95-7763

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)

1. Name of applicant HONEYSUCKLE HILLS OWNERS ASSOCIATION, INC.

   post office address P. O. Box 417, Hayden Lake, Idaho 83835

2. Source of water supply Deep Well which is a tributary of N.A.

3. a. Location of point of diversion is NE ¼ of SE ¼ of Section 23 Township 51N Range 4W B.M. Kootenai County; additional points of diversion if any: N.A.

   b. If water is not consumed, it will be discharged into N.A. at a point in _____ ¼ of _____ ¼ of Section _____ Township _____ Range _____ B.M. _____

4. Water will be used for the following purposes:

   Amount 5 (cfs or acre-feet per annum) for Domestic purpose from Jan. 1 to Dec. 31 (both dates inclusive)

   Amount _____ (cfs or acre-feet per annum) for _____ purpose from _____ to _____ (both dates inclusive)

   Amount _____ (cfs or acre-feet per annum) for _____ purpose from _____ to _____ (both dates inclusive)

5. Total quantity to be appropriated:

   a. 5 cubic feet per second and/or

   b. _____ acre feet per annum.

6. Proposed diverting works:

   a. Description of ditches, flumes, pumps, headgates, etc. 16" Well feeding 12" main to 100,000 gallon reservoir. Two 7½ HP Booster Pumps from 12" main to 75,000 gallon reservoir.

   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 _____ (Mo. Day) to _____ (Mo. Day) inclusive.

   c. Proposed well diameter is 16 inches; proposed depth of well is 350 feet.

7. a. Time required for the completion of the works and application of the water to the proposed beneficial use is 1 years.

   b. Estimated construction cost is $362,000.

8. Description of proposed uses: SEE MAP

   a. If water is **not** for irrigation:

   (1) Give the place of use of water: _____ ¼ of _____ ¼ of Section _____ Township _____ Range _____ 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 800 to 1,000.

   (5) If water is to be used for other purposes describe: _____

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

TWP.	RANGE	SEC.	NE¼				NW¼				SW¼				SE¼				TOTALS
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	

Total number of acres to be irrigated_____

c. Describe any other water rights used for the same purposes as described above. Existing Honeysuckle Hills Owners Association, Inc. and Woodland Heights and Hayden View Estates rights to draw water from Hayden Lake.

9. a. Who owns the property at the point of diversion Honeysuckle Hills Owners Assn., Inc.

b. Who owns the land to be irrigated or place of use Private lot ownership.

c. If the property is owned by a person other than the applicant, describe the arrangement enabling the applicant to make this filing President, Honeysuckle Hills Owners Assn., Inc. the supplier of water.

10. Remarks Well is necessary because of uncertain status of water rights from Hayden Lake below the 2230 elevation.

Received by_____ Date_____ Time_____

Preliminary check by_____ Fee $_____

Receipted by_____ Date_____

Publication prepared by_____ Date _____

Published in _____

Publication dates _____

Publication approved_____ Date_____

Priority reduced to_____ Reason_____

_____

_____

_____

Protests filed by: _____

_____

_____

Copies of protests forwarded by_____

Hearing held by_____ Date_____

Recommended for approval denial by_____

ACTION OF THE DIRECTOR, DEPARTMENT OF WATER RESOURCES

This is to certify that I have examined Application for Permit to appropriate the public waters of the State of Idaho No. _____, and said application is hereby_____.

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 _____, 19_____.

   c. Other: _____

   _____

   _____

   _____

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

   _____

   _____

   _____

   _____

   _____

Witness my hand this _____ day of _____ 19_____.

_____

Director

Proposed Priority 8-5-77

Received by B Date 8-5-77 Time 1:30

Preliminary check by RJR Fee $ 65.00

Receipted by B Date 8-5-77 (5704)

Publication prepared by RJR Date 8-8-77

Published in Coeur d'Alene Press

Publication dates 8-18 - 8-25-77

Publication approved SDW Date 9-2-77

Priority reduced to _____ Reason _____

Protests filed by: _____

Copies of protests forwarded by _____

Hearing held by _____ Date _____

Recommended for approval denial by RJR jg

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. 95-7763, 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 October 1, 1978.

   c. Other: For licensing purposes a scientific measurement of the diversion rate of the system as it is normally operated shall be provided by either properly installing an approved type of measuring device or by having a professional engineer certify the rate of diversion to the Department prior to submitting proof of beneficial use of water.

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

Witness my hand this 23 day of September 1977.

K. Dennis Wilson

Deputy Director

Form 219
12/79

RECEIVED
NOV 10 1980
Department of Water Resources

State of Idaho
DEPARTMENT OF WATER RESOURCES
FIELD REPORT

95-7763
Permit No.

CONTACT WITH PERMIT HOLDER

	DATE	INITIALS	REMARKS
☑ Appointment letter mailed:	9-7-79	JK	8-79-772-3039 Bill Erickson see Call
	8-1-80	JK	772-2161 or 772-3841 - Nancy Morris - No Ans
☐ Telephone call made:	8-8-80	JK	" " "
(List Telephone No. used)	8-28-80	JK	" " "
	9-16-80	JK	" " "
☐ Appointment scheduled for:	9-30-80	JK	" " "
(Date, time, location)	"	"	772-3619 - Bud Ford.
	10-22-80	JK	7723605 Honeysuckle Hills - NO. ANS. 3841 - No Ans - 2161 - No Ans.

EXAMINATION

Date 9-30-80 Accompanied by Bud Ford Total Q measured 1,350 gpm

If source is surface water, estimate total flow of source

Methods of measurement Meter Meets Permit requirements? yes

Measurement calculations: capacity

1350 / 448.8 = 3.0 cfs (1.98) 365 = 2168.1 AF

~~296 (+2) = 883.2 AF~~ 883.2 AF > JK-11-9-81

1000 (1.2) = 1200 AF

TOTAL UNITS = 1357 - see attached letter

permit allows 1000

V = 1000 x 1.2 = 1200 AF

WELL/DIVERSION* NO.	HP	MOTOR MAKE	MOTOR SERIAL NO.	PUMP MAKE	PUMP SERIAL NO.	MEASURING DEVICE TYPE	CONDITION OF MEAS. DEV.	REMARKS
	200	GE	HP/802115	Fairbanks	236369	McCrometer	New	
	5							

System Description 16" x 350' well with 200 hp motor & pump with 12" main to 100,000 gal storage tank then to Honeysuckle Hills; and to with a 5 hp booster pump to a 70,000 gal storage tank then to places of use; And to with a 7 hp booster pump to a 100,000 gal storage tank then to place of use

*Code with map on reverse side. Disregard code if only one.

RECOMMENDED AMOUNTS

Irrigation requirement = _____ AFA/Acre

USE	Q (cfs)	V (afa)	FROM	TO
Domestic	3.0 ✓	~~296 (+2) = 883.2~~ 1200 AF ✓	1-1	12-31
Total				

Remarks ~~Hayden Pines Water Co.~~ purchased 60% - Bud Ford - 772-3619 Leland & Frame Engineers - Hold for number of families.

~~In on Hayden Pines - Honeysuckle Hills: = 195 ; 235 homes~~ Map - 1000 homes

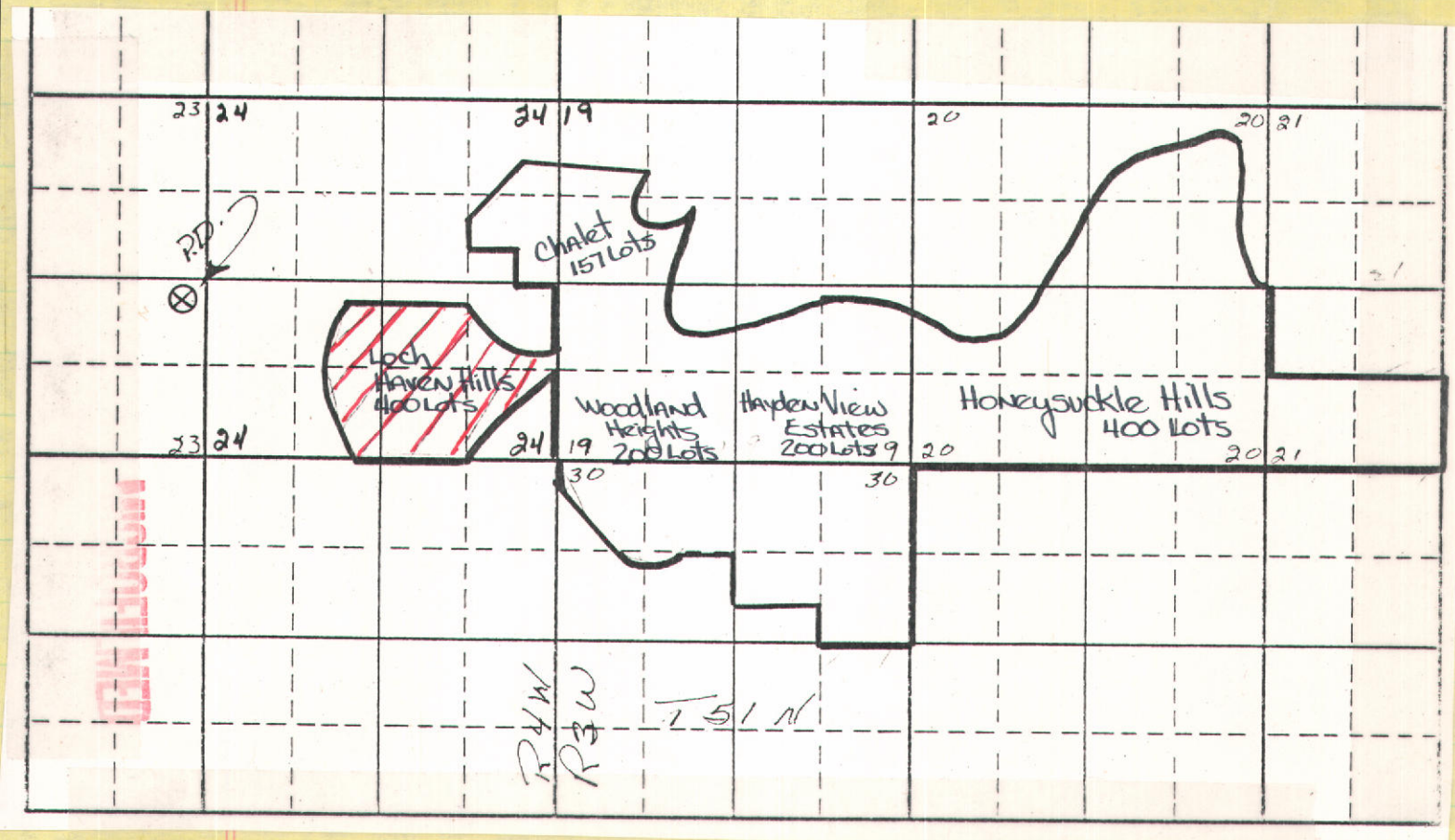
~~Deep~~ App (see plans)

WATER DISTRIBUTION MAPS FOR THIS RIGHT HAVE BEEN REDUCED & ATTACHED HERETO. ORGINIALS HAVE BEEN DESTROYED.

Licensing w/o Amendment

Field Examiner found the following:

Red is AREA NOT identified on PERMIT



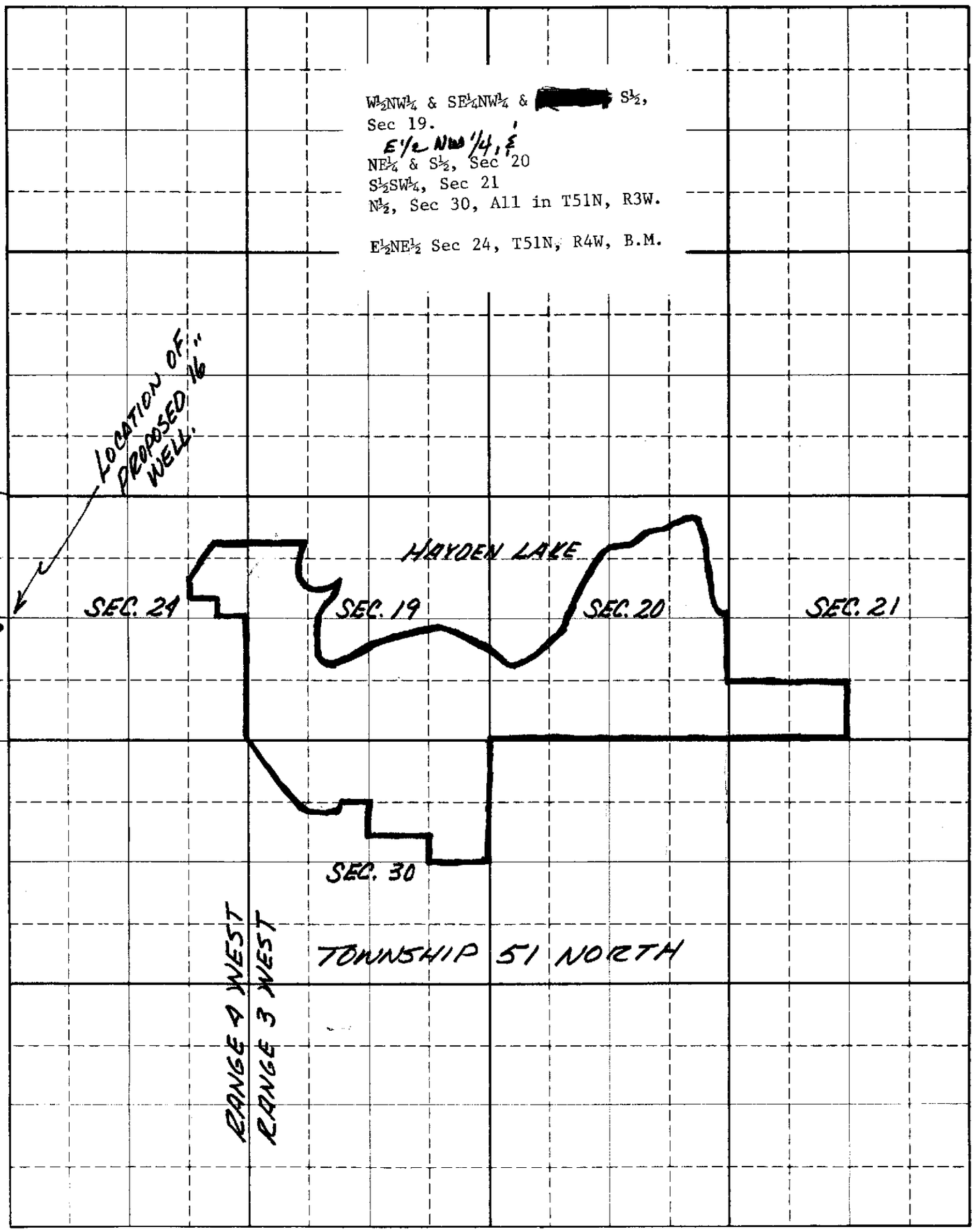
Therefore to license w/o the amendment which would of added the P/U in red, we will have to delete it from the license.

Total Lots = 1357 subtract 400 within the Loch Haven Hills = 957 total

V = 957 Lots × 1.2 = 1148.4

8/16/83

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

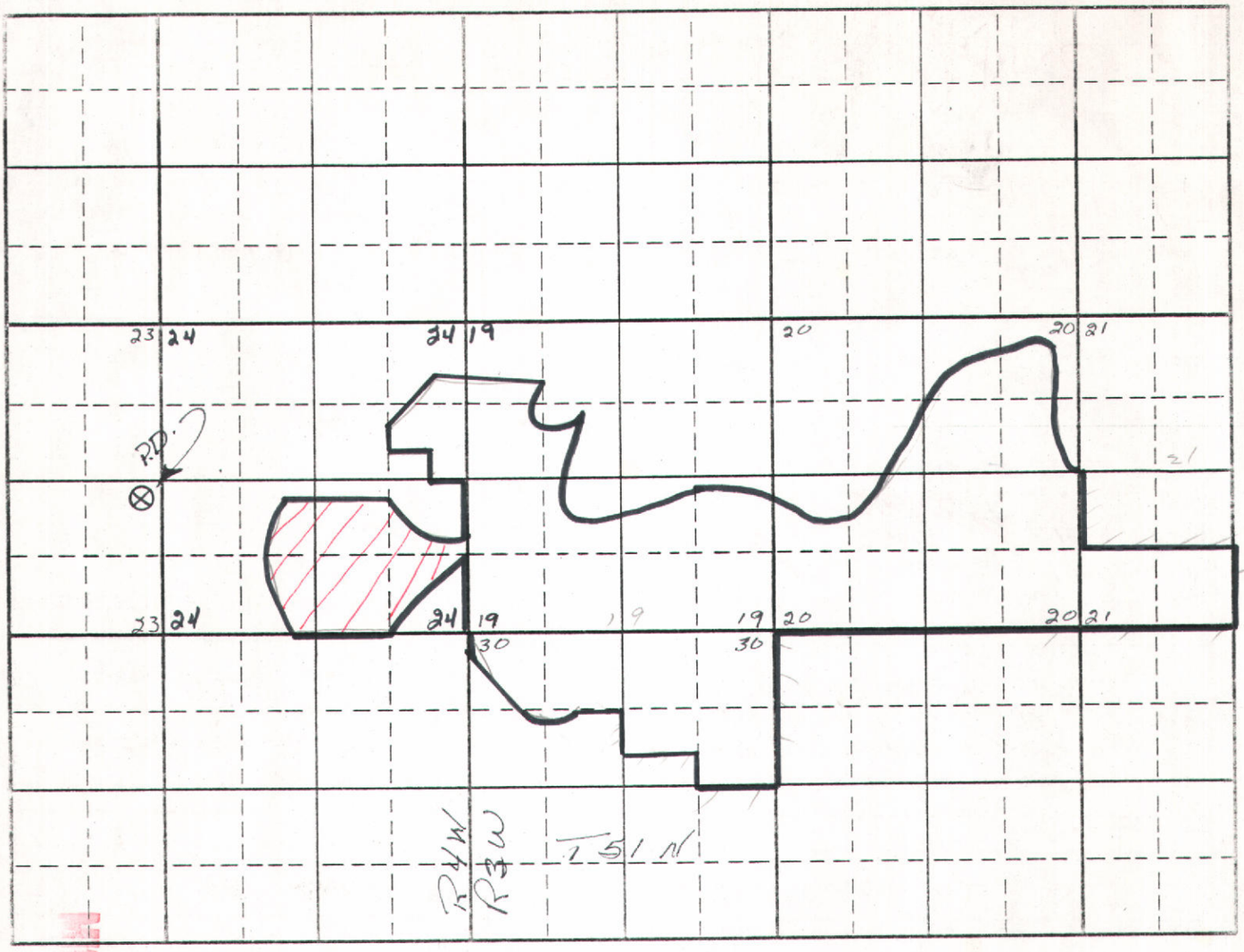


Scale: 2 inches equal 1 mile

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.

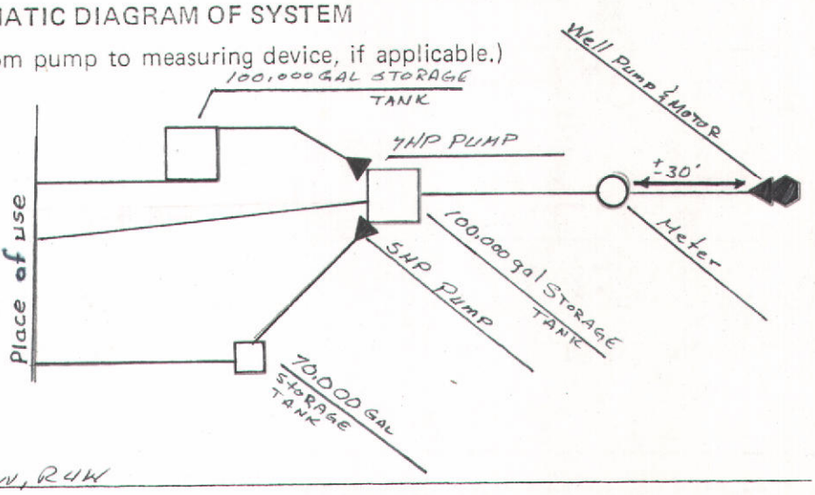
(Applicant) President

MAP (Attach Aerial Photo)



SCHEMATIC DIAGRAM OF SYSTEM

(Include distance from pump to measuring device, if applicable.)



Point(s) of diversion: NESE, sec 23, T 5N, R4W

Place(s) of Use

TWP.	RGE.	SEC.	NE¼				NW¼				SW¼				SE¼				TOTALS
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	
5N	3W	19						X	X	X	X	X	X	X	X	X	X	X	
		20	X	X	X	X				X	X	X	X	X	X	X	X	X	
		21	~~X~~	~~X~~	~~X~~	~~X~~							X	X					
		30	X	X	X	X	X	X	X	X									
	4W	24	X			X					X			X	X	X	X	X	Add

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

Examiner's Signature: JKim Date 10-22-80

Checked by: Bob Haynes Date 11/6/80

Approved by: [signature] Date 6/11/81

Exam Supplemental 95-7763

9-21-81 Nancy Morris Contacted me about Re-exam with Engineer drawings.

9-23-81 Ray Cox contacted me sez should be 800-1000 homes - Recommended 236 - - Called Robyn to have exam sent to me.

10-9 Gary Frame Came into office to inquire how to go about getting 1000 homes on license ~~system~~. Used 96-7741 as example.

10-30 G.F Requested copy of App for ref. in preparing plans for ex Report

3/79

IDENT. NO. 95-7763

IDAHO DEPARTMENT OF WATER RESOURCES

WATER RIGHT DATA ENTRY LOG

Initials	Date	Item
		Original form entered
		Edit Report Correct
		Date Protested
		Date of Hearing
		Date Approved/Denied (Proof due date, stage and/or status, conditions of approval, water district)
		Record Verified
		Amendment Approved
		Extension Approved
		Partial Proof
		Proof Complete
		Field Exam Received
		Field Exam Accepted and changes entered
		License Signed
		Transfer Approved
R	12.21	Keypunched by State Office
D.W.	10/28/83	License update

DEPARTMENT OF WATER RESOURCES
- STAFF ANALYSIS -

Item	Initial	Date	
			Application No. Honeysuckle Hills Owners Hill Ass
			✓ 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
(1)	RWH	8-5-77	In form to receipt
(2)	RWH	8-5-77	Send Copies to:
			✓ Idaho State Health Department
			___ Idaho Fish and Game Department
			___ Bureau of Land Management
(3)	___	___	___ Request Special Use Permit from U.S.F.S.
			___ Request Easement from B.L.M.
			___ Request Information from Applicant
			___ Request Dam Safety Information
(4)	RWH	8-5-77	In form for advertising
(5)	___	___	Platted on Map No. ___
(6)	___	___	Located within Water District No. ___
(7)	___	___	Critical groundwater area: yes ___ no ✓
(8)	___	___	Groundwater levels:
			___ Declining, ✓ Stable, ___ Increasing
			(comment) ___
(9)	___	___	Other rights on the same place of use
(10)	___	___	Comments: ___
(11)	SKW	9-2-77	Affidavit of Publication received (date) 9-2-77
(12)	___	___	Final date for protests 9-5-77
			Protests received: yes ___ no ✓
(13)	___	___	All requested information received from agencies or applicant: yes ✓ no ___
(14)	___	___	Action recommended:
			✓ Approve ___ Deny
			8-5-77 Proposed Priority
			___ Reason for Reduction ___
			✓ Measuring device required
			___ See attached sheet for other conditions of approval
			___ No special conditions for approval
(15)	District Northern		By Bob Harper Date 9-6-77

NOTICE OF APPLICATION FOR WATER PERMIT

Notice is hereby given that **Honeysuckle Hills Owners Association, Inc.**

P.O. Box 417, Hayden Lake, ID

has on **August 5, 1977** submitted Application No. **95-7763**

for a permit to appropriate **5** cubic feet per second ~~acre feet per annum~~

of water from **groundwater source**

by means of **well pump and pipeline**

within the **NE¼SE¼, Sec 23, T51N, R4W, B.M. Kootenai County**

to be used from **Jan 1 to Dec 31**

for **domestic purposes** for 800 to 1000 households

within the **W½NW¼ & SE¼NW¼ & E½NW¼ & S½, Sec 19, & NE¼ & S½, Sec 20, & S½SW¼, Sec 21, & N½, Sec 30, All in T51N, R3W. E½NE¼ Sec 24, T51N, R4W, 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 Resources, 4055 Government Way, Coeur d'Alene, Idaho 83814, on or before **September 5, 1977**.

C. STEPHEN ALLRED
Director

Published in the **Coeur d'Alene Press, Coeur d'Alene, Idaho**

on **August 18** and **August 25, 1977**

HAYDEN LAKE

SCALE 1" = 500'

T 51 N, R 3 W, B.M.

N

18 | 19

19 | 20

20 | 21

19 | 30

19 | 20 | 30 | 29

20 | 21 | 29 | 28

SITE OF 12" UNSUCCESSFUL WELL

HONEYSUCKLE AVENUE

WELL SITE APPR. 5600'

PROPOSED 12" MAIN

EXISTING MAIN

EXISTING DUAL BOOSTER PUMPS TO WOODLAND HEIGHTS AND HAYDEN VIEW ESTATES.

WOODLAND HEIGHTS AND HAYDEN VIEW ESTATES RESIDENTIAL AREA.

HAYDEN LAKE HONEYSUCKLE HILLS BUILDING SITES.

EXISTING LAKE INTAKE FACILITY

EXISTING MAIN

EXISTING WOODEN RESERVOIR

PROPOSED STEEL RESERVOIR

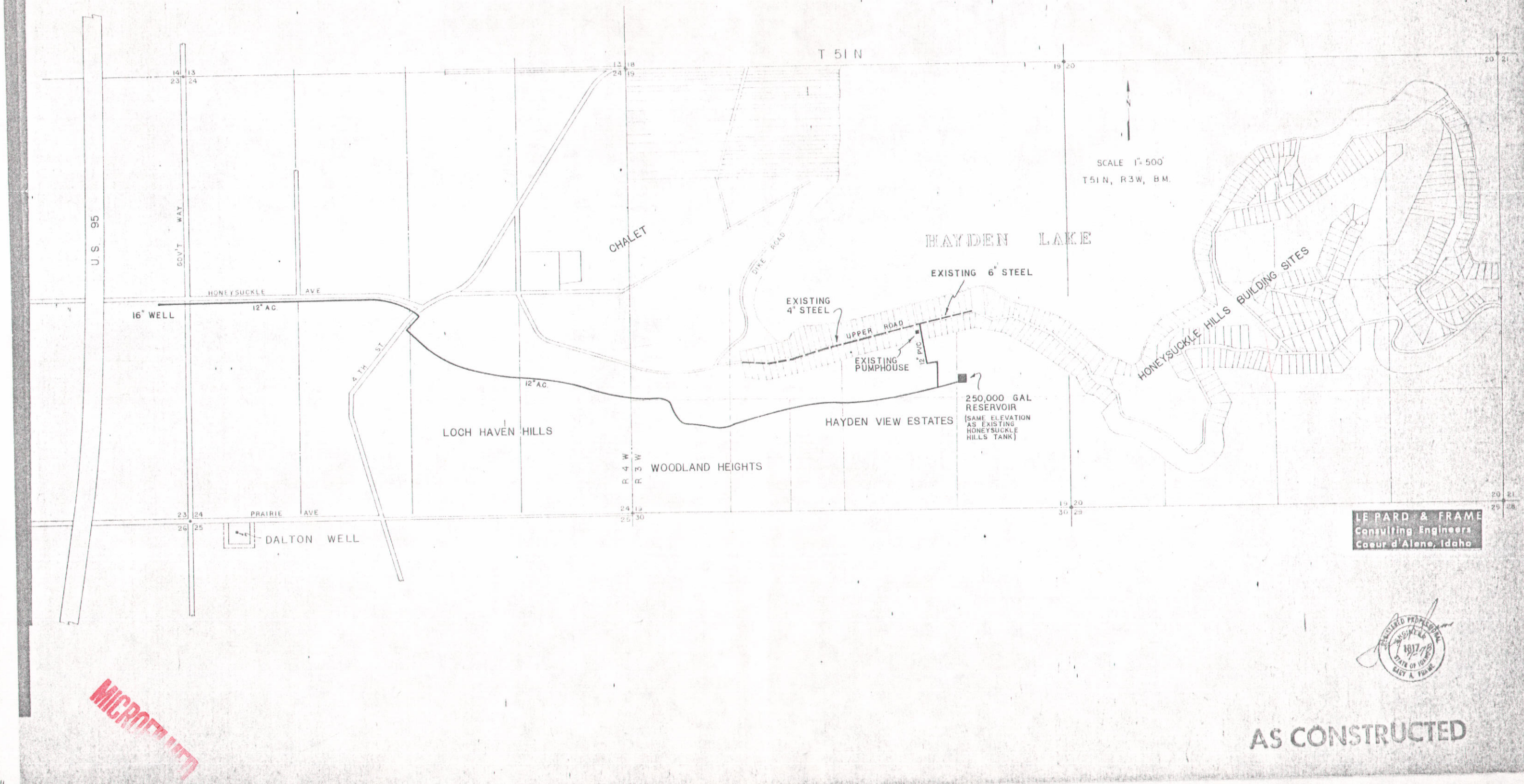
EXISTING MAIN

PROPOSED 12" MAIN

MICROFILMED

2

WATER SYSTEM
FOR
WOODLAND HEIGHTS, HAYDEN VIEW ESTATES AND HONEYSUCKLE HILLS
KOOTENAI COUNTY, IDAHO
1977 - 1978



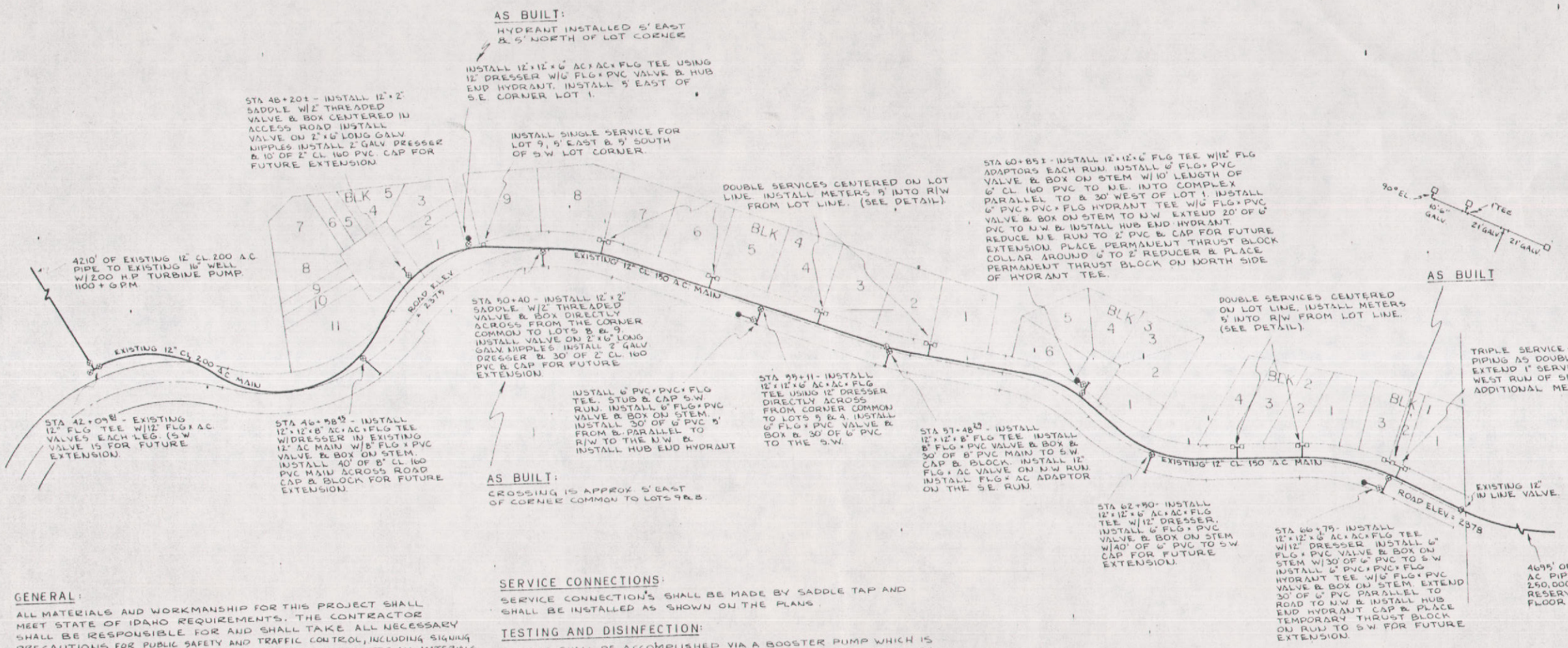
LE PARD & FRAME
Consulting Engineers
Coeur d'Alene, Idaho

REGISTERED PROFESSIONAL ENGINEER
1977
STATE OF IDAHO
GARY A. FRAME

AS CONSTRUCTED

MICROFILMED

LOCH HAVEN HILLS
WATER DISTRIBUTION SYSTEM



GENERAL:

ALL MATERIALS AND WORKMANSHIP FOR THIS PROJECT SHALL MEET STATE OF IDAHO REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND SHALL TAKE ALL NECESSARY PRECAUTIONS FOR PUBLIC SAFETY AND TRAFFIC CONTROL, INCLUDING SIGNING AND FLAGMAN IF NECESSARY. THE CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FOLLOWING FINAL APPROVAL BY THE ENGINEER.

PIPE:

PIPE FOR STUBOUTS, HYDRANTS, AND SERVICE LINES SHALL BE CLASS 160 PVC MEETING THE LATEST ASTM AND AWWA STANDARDS. PIPING FROM THE TEE AT THE END OF THE SERVICE LINE THROUGH THE METER LOOP SHALL BE STANDARD GALVANIZED. ALL PIPELINE PLACED SHALL BE CONSTRUCTED TO THE SIZE SHOWN AND IN THE LOCATIONS AS SHOWN ON THE PLANS. ALL PIPE SHALL BE BEDDED IN IMPORTED PEA GRAVEL AND SHALL BE HAND PLACED FOR A 6" THICKNESS UNDER AND ALONG THE SIDES OF THE PIPE. A 12" LAYER SHALL BE PLACED OVER THE PIPE. ALL PIPE LYING UNDER THE EXISTING OR FUTURE ROADWAY SHALL HAVE THE BACKFILL MECHANICALLY COMPACTED TO 100% OF ORIGINAL GROUND DENSITY. IN ALL CASES THE GROUND SURFACE SHALL BE SMOOTHED TO ITS ORIGINAL CONTOURS.

VALVES AND FITTINGS:

VALVES AND FITTINGS SHALL BE PLACED AS SHOWN ON THE PLANS AND PROPERLY THRUST BLOCKED. ALL VALVES SHALL BE EQUIPPED WITH A CAST IRON EXTENSION TYPE VALVE BOX, DRESSER OR EQUAL. THE TOPS SHALL BE LEFT APPROXIMATELY 3" BELOW THE ROAD SURFACE AND SHALL BE BROUGHT TO FINAL GRADE BY THIS CONTRACTOR WHEN THE ROADWAY IS SURFACED. VALVES SHALL BE AWWA CLASS C NRS WITH A 2" SQUARE OPERATING NUT. FITTINGS SHALL BE TIF-CO OR TIF-TEC.

SERVICE CONNECTIONS:

SERVICE CONNECTIONS SHALL BE MADE BY SADDLE TAP AND SHALL BE INSTALLED AS SHOWN ON THE PLANS.

TESTING AND DISINFECTION:

TESTING SHALL BE ACCOMPLISHED VIA A BOOSTER PUMP WHICH IS PUMPING FROM A KNOWN VOLUME OF WATER. THE LINES SHALL BE TESTED FOR LEAKAGE AT 100 PSI. IT WILL BE NECESSARY TO CLOSE THE VALVES AT STATION 42+09.8± AND THE VALVE AT THE EAST PROPERTY LINE AND TO TEST THE EXISTING 12" MAIN ALONG WITH THE NEW IMPROVEMENTS.
UPON COMPLETION OF THE PRESSURE TEST TO THE SATISFACTION OF THE ENGINEER, DISINFECTION WILL BE ACCOMPLISHED BY INTRODUCING A HYPOCHLORITE SOLUTION INTO THE MAIN AT THE EAST END OF THE PROJECT TO A SOLUTION STRENGTH OF 50 PPM. WATER SHALL BE DRAWN THROUGH EACH CONNECTION UNTIL THE PRESENCE OF CHLORINE IS DETECTED. THE SOLUTION SHALL THEN BE LEFT IN THE LINE FOR A PERIOD OF 24 HOURS AND THEN THOROUGHLY FLUSHED THROUGH EACH CONNECTION.

MICROFILMED

AS CONSTRUCTED

LOCH HAVEN HILLS WATER DISTRIBUTION SYSTEM			
SCALE 1"=100'	K17	24-91-4	DRAWN BY JHF
DATE 8/7/79			REVISED 1-80

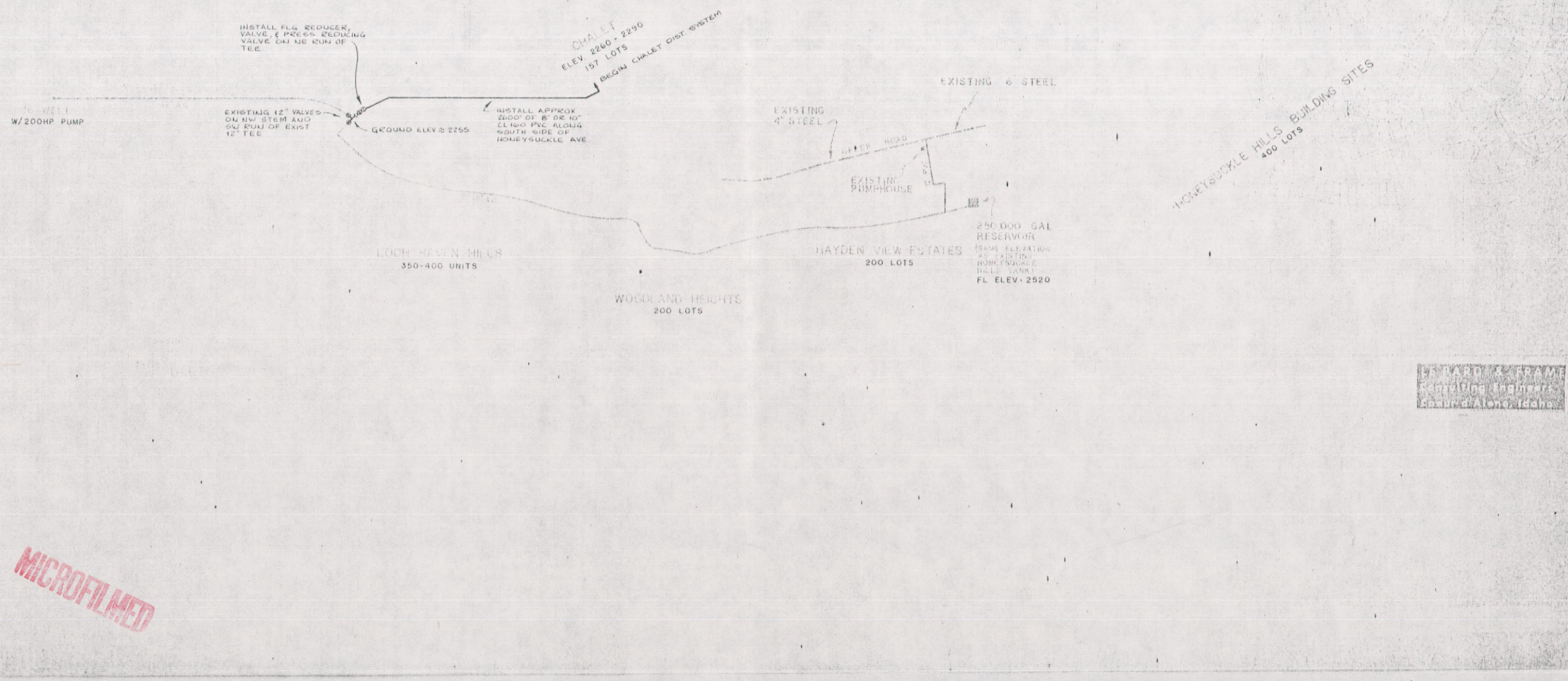
LE PARD & FRAME, Inc. Consulting Engineers Coeur d'Alene, Idaho

SHEET 2 OF 3 LF

4

WATER SYSTEM
FOR
WOODLAND HEIGHTS, HAYDEN VIEW ESTATES AND HONEYSUCKLE HILLS
KOOTENAI COUNTY, IDAHO
1977 - 1978

CHALET SUPPLY LINE - PRELIMINARY PLAN
1980

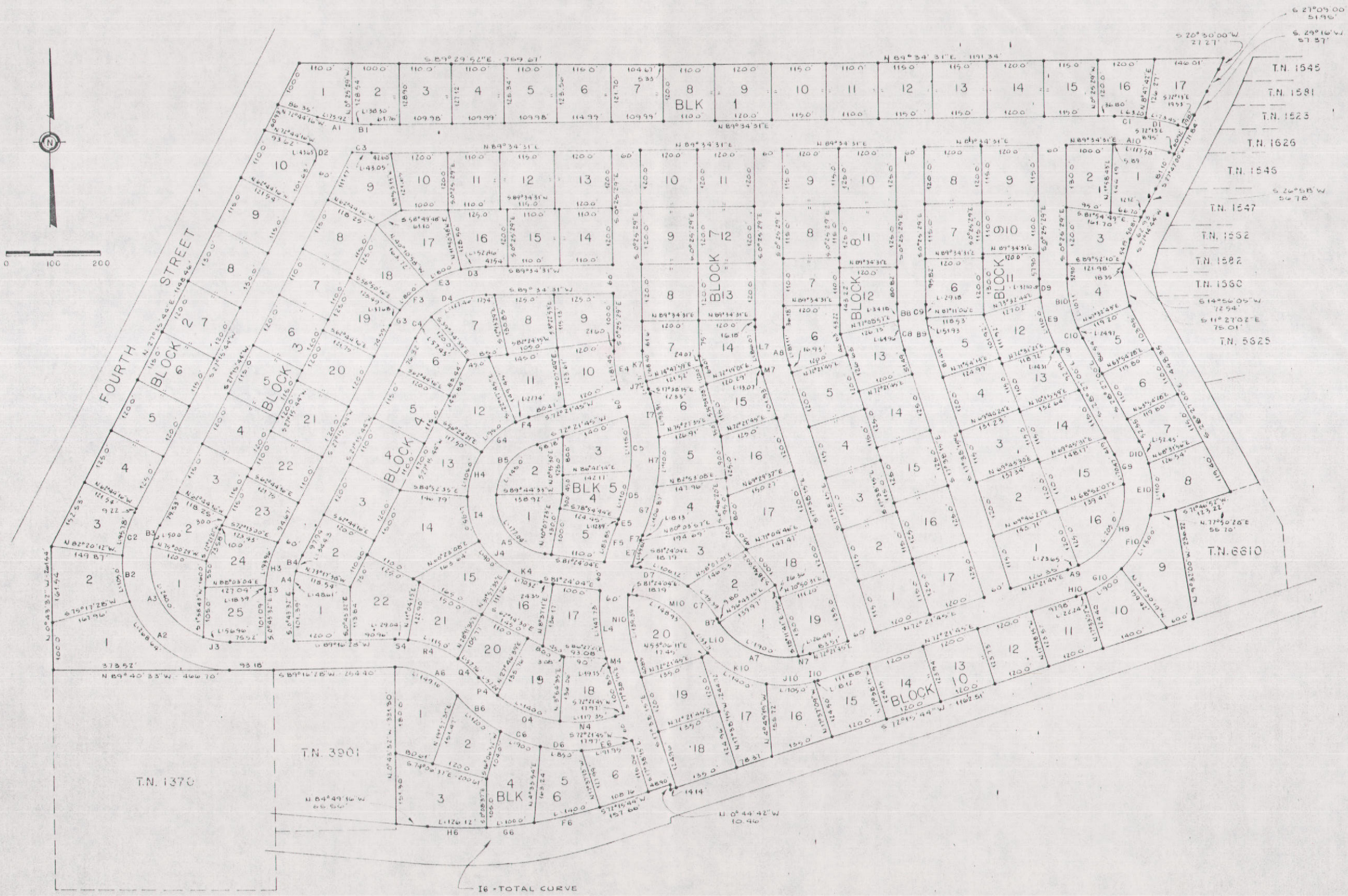


MICROFILMED

5

CHALET

A PART OF SECTION 19, TOWNSHIP 51 NORTH, RANGE 3 WEST, BM AND SECTION 24, TOWNSHIP 51 NORTH, RANGE 4 WEST, BM.
KOOTENAI COUNTY, IDAHO



MICROFILMED

HAYDEN LAKE 6

PRELIMINARY WATER SYSTEM

FOR

WOODLAND HEIGHTS & HAYDEN VIEW ESTATES

IN SECTION 19+30 TOWNSHIP 51 NORTH, RANGE 3 WEST, BM

HAYDEN LAKE HONEYSUCKLE HILLS BUILDING SITES

HAYDEN VIEW ESTATES

WOODLAND HEIGHTS

DALTON GARDENS

WOODLAND HEIGHTS

HAYDEN VIEW DRIVE

15TH ST.

END EXISTING 4" MAIN HONEYSUCKLE HILLS WATER SYSTEM

EXISTING 4" MAIN

EXISTING 12" MAIN

INSTALL 6" TEE W/ EXISTING MAIN REDUCE WESTWARD TO 4", INSTALL 6" GATE VALVE IN BOX IN NEW LINE.

BOOSTER PUMP STATION INSTALL 2-1½ HP CENT PUMPS

EXISTING 6" MAIN TO HONEYSUCKLE HILLS RESERVOIR, (80,000 GAL) FLOOR ELEV. = 2517

6" TEE, PLUG EAST RUN

6" TEE WITH 6" GV IN BOX EACH RUN

6" MAIN

8" MAIN

EXISTING 6" MAIN THIS RESERVOIR

INSTALL 8"x6" TEE PLUG W STEM

LOWER RESER. SERVICE TO HERE, MIN PRESSURE 50 PSI

CONSTRUCT EAST INTAKE CONCRETE RESERVOIR ELEVATION 2400, 75,000 GAL. REQ'D THIS PHASE. ULTIMATE 150,000 GALLONS REQ'D. EQUIP WITH LIQUID LEVEL CONTROLS W/ SENSOR LINE TO BOOSTER PUMP. FUTURE BOOSTER PUMP REQUIRED TO UPPER RESERVOIR

ELEV. 2648 55 PSI

ELEV. 2636 82 PSI

ELEV 2625 MIN PRESSURE 32 PSI

PRESSURE SYSTEM

FUTURE 100,000 GAL. RESERVOIR TO SERVICE UPPER PORTION OF DEVELOPMENT (PRESSURE SYSTEM FROM THIS RESERVOIR WILL SERVICE HIGHEST 30 ± LOTS) APPR ELEV. 2785

ELEV 2585 60 PSI

ELEV 2625 MIN PRESSURE REDUCING VALVE 90 PSI TO 60 PSI

6" TEE, REDUCE WEST RUN TO 2"

2" GATE VALVE IN BOX

INSTALL 6" HYDRANTS WITH 6" GATE VALVES & BOXES ON NW & SW RUNS, PLUG NE & SE RUNS

MAXIMUM PRESSURE 93 PSI THIS LOT

1" GV IN BOX

INSTALL 6" TEE W/GV IN BOX ON NW RUN PLUG NE & SE RUNS

ELEV. 2410 MAX PRESSURE 90 PSI

INSTALL PRESSURE REDUCING VALVE FOR RESERVOIR

SCALE 1" = 200'

NOTES:

GENERAL: ALL MATERIALS SHALL BE NSF APPROVED AND DISINFECTED TO STATE REQUIREMENTS PRIOR TO SERVICE.

PIPE: PIPE SHALL BE RUBBER RING CLASS 150 PVC OR CLASS 150 AC WITH MINIMUM ENVY OF 4"-0".

VALVES: VALVES SHALL BE AWWA CLASS 150 WATER AND EQUIPPED WITH EXTENSION TYPE CAST IRON VALVE BOXES.

HYDRANTS: HYDRANTS SHALL BE 6" M&H OR EQUAL EQUIPPED WITH 4"-6" AUXILLARY VALVE, 6" RUBY DISCHARGE CONNECTIONS, AS PER FIRE DISTRICT SPECIFICATIONS.

THRUST BLOCKS: CONCRETE THRUST BLOCKS ARE REQ'D AT ALL POINTS OF THRUST

LEGEND

—— LOWER RESERVOIR DISTRIBUTION LINES

—·— UPPER RESERVOIR DISTRIBUTION LINES

---- PRESSURE SYSTEM (UPPER RESERVOIR)

PRELIMINARY PLANS
NOT FOR CONSTRUCTION

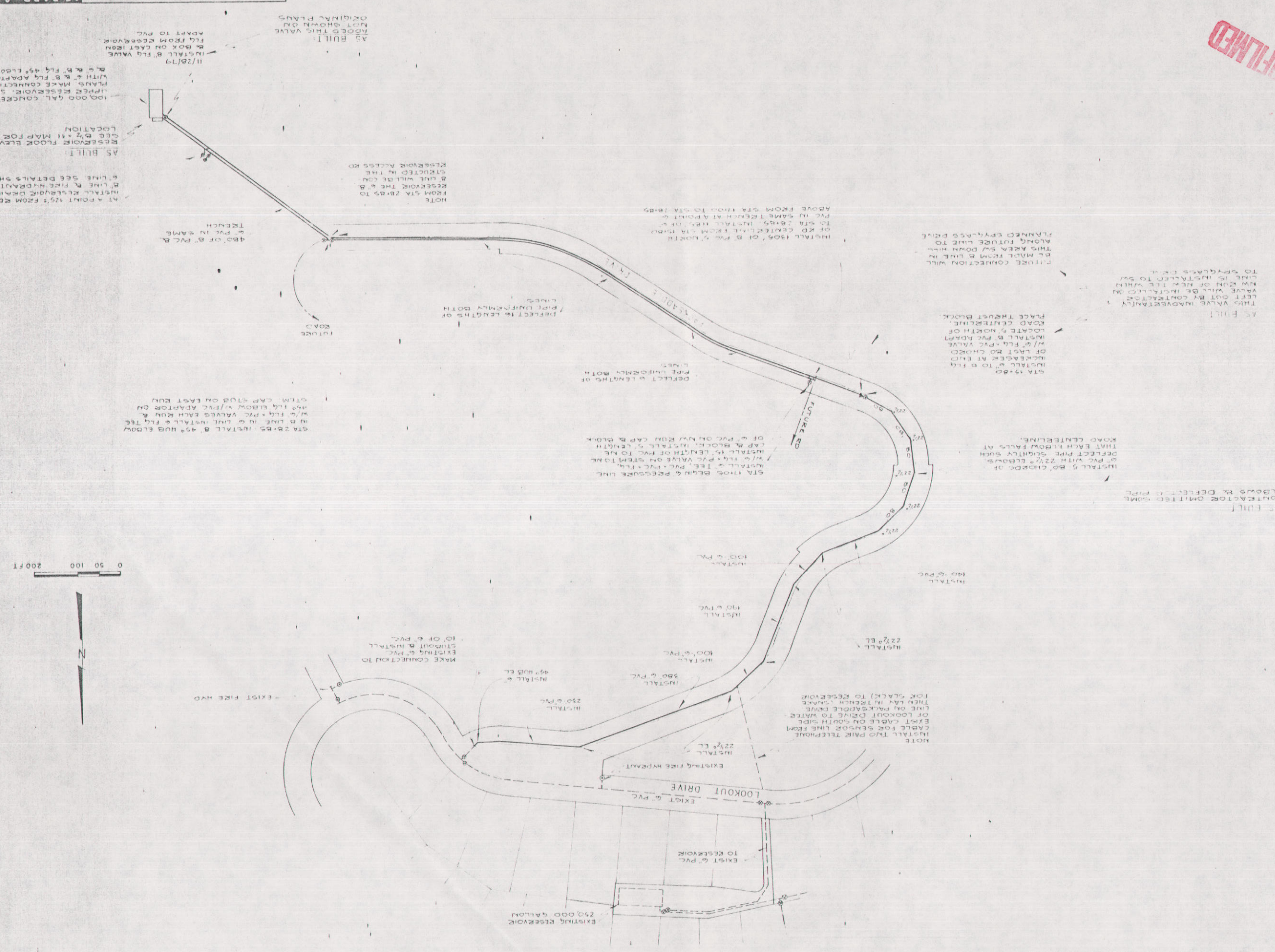
PRELIMINARY WATER PLANS FOR WOODLAND HEIGHTS &		LE PARD & FRAME Consulting Engineers Coeur d'Alene, Idaho	SHEET 1 OF 1 SHEETS
SCALE 1" = 200'	HAYDEN VIEW	DRAWN BY R.W.A.	
DATE 6/94	ESTATES	REVISED 6/95	

MICROFILMED

MICROFILMED

ESCSERVOIR & PRESSURE DIST LINES FOR HAWDEN VIEW ESTATES & WOODLAND HTS.			SHEET 2 OF 4
DR. 9/79	SCALE 1"=100'	DES. J.S.	MJ59
			SCALE IN FEET 1:80

LE PARD & FRAME
Consulting Engineers
Coeur d'Alene, Idaho



6

10

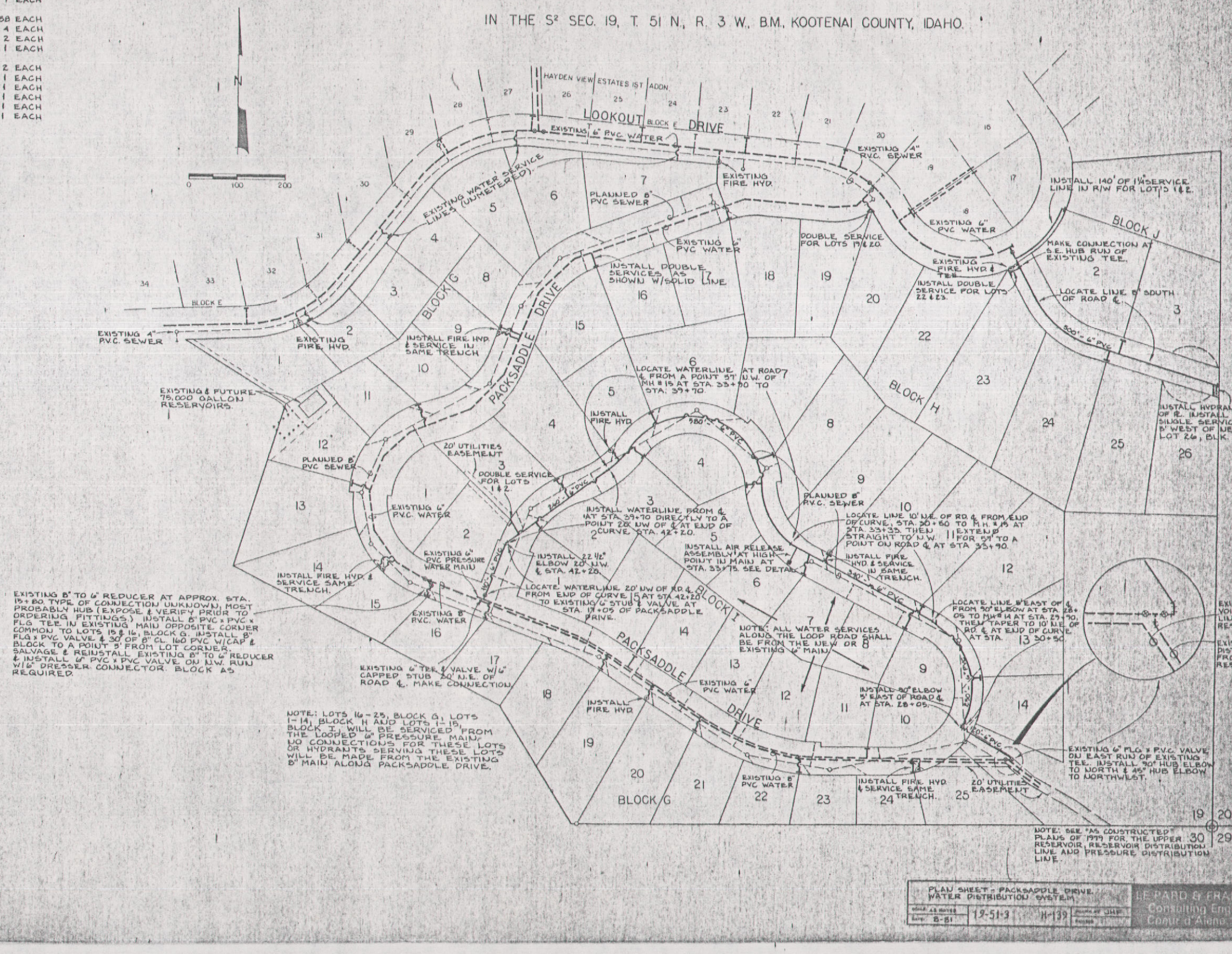
HAYDEN VIEW ESTATES 2ND. ADDITION

IN THE S½ SEC. 19, T. 51 N., R. 3 W., B.M., KOOTENAI COUNTY, IDAHO.

APPROXIMATE QUANTITIES – THIS SHEET

6" CLASS 160 PVC MAIN	–	1,660 FEET
8" CLASS 160 PVC MAIN	–	30 FEET
DOUBLE SERVICES FROM EXISTING MAIN	–	17 EACH
DOUBLE SERVICES FROM NEW MAIN	–	12 EACH
METER BOX SETTINGS (W/SPACERS) ON EXISTING SERVICE LINES	–	7 EACH
METER BOX SETTINGS (W/SPACERS) ON NEW SERVICE LINES	–	58 EACH
HYDRANT ASSEMBLIES ON EXISTING 6" MAIN	–	4 EACH
HYDRANT ASSEMBLIES ON NEW 6" MAIN	–	2 EACH
AIR RELEASE ASSEMBLY	–	1 EACH
FITTINGS:		
6" 90° ELBOWS	–	2 EACH
6" 45° ELBOWS	–	1 EACH
6" 22 1/2° ELBOWS	–	1 EACH
6" VALVE & BOX	–	1 EACH
8" VALVE & BOX	–	1 EACH
8" TEE	–	1 EACH

NOTE:
THE QUANTITIES DO NOT INCLUDE THE 500 FEET OF NEW 6" MAIN, TWO DOUBLE SERVICES, ONE SINGLE SERVICE, AND HYDRANT ASSEMBLY FOR CUL DE SAC ROADWAY SERVING LOTS 23-26, BLOCK H & LOT 3, BLOCK J.



PLAN SHEET - PACKSADDLE DRIVE WATER DISTRIBUTION SYSTEM

SCALE AS NOTED	12-51-3	H-139	SHEET 4 OF 5
DATE 8-81	DRAWN BY JHP	CHECKED	

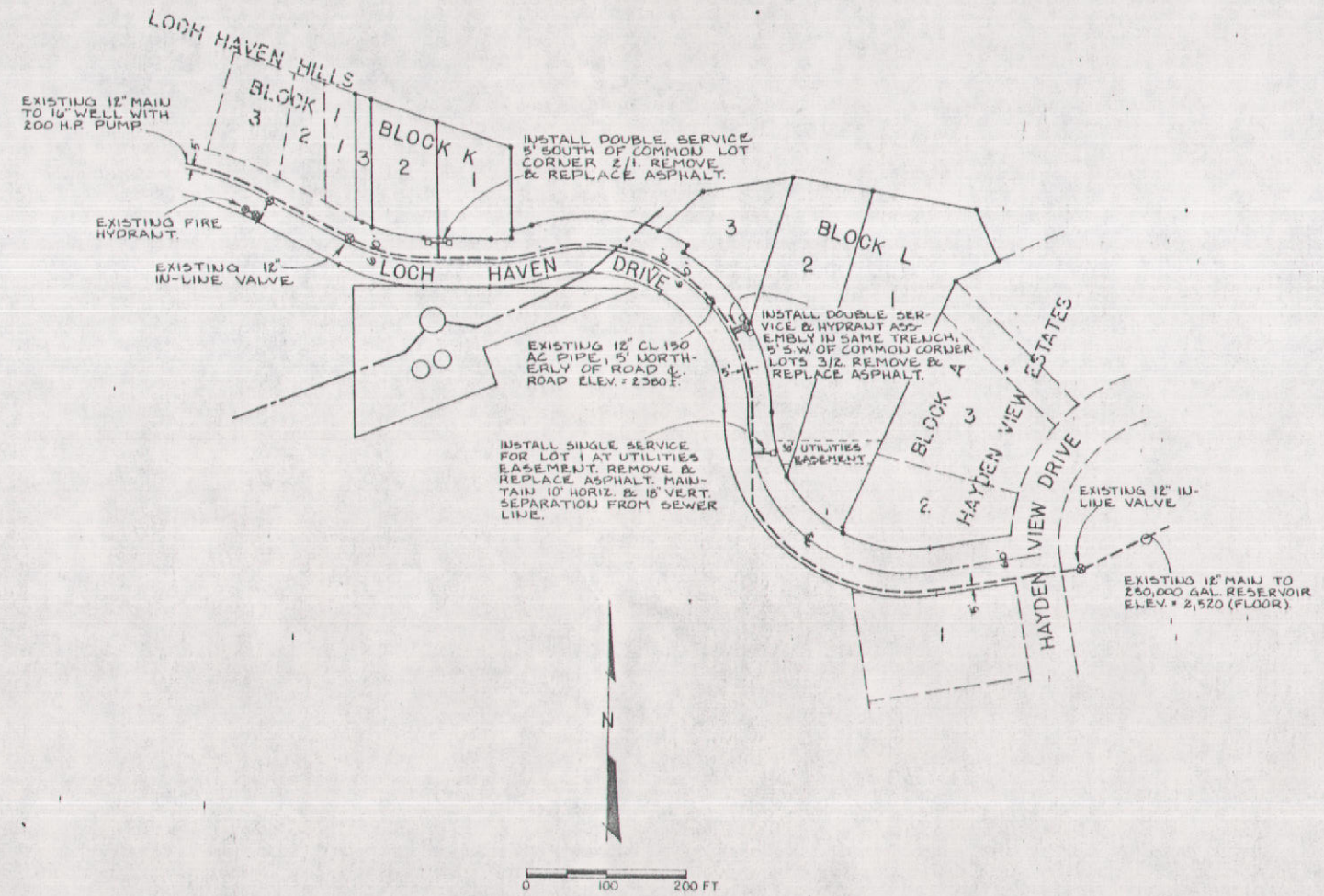
LE PARD & FRAME, Inc. Consulting Engineers, Coeur d'Alene, Idaho

APPROVED
RECOMMENDED

11

HAYDEN VIEW ESTATES 2ND. ADDITION

IN THE S^2 SEC 19, T5IN., R3W., B.M., KOOTENI COUNTY, IDAHO



APPROXIMATE QANTITIES - THIS SHEET

DOUBLE SERVICES FROM EXISTING MAIN	–	2 EACH
SINGLE SERVICE FROM EXISTING MAIN	–	1 EACH
METER BOX SETTINGS (W/SPACER)	–	5 EACH
HYDRANT ASSEMBLIES	–	1 EACH
ASPHALT CUT AND PATCH	–	3 EACH

MICROFILMED

PLAN SHEET – BLOCKS K AND L
WATER DISTRIBUTION SYSTEM

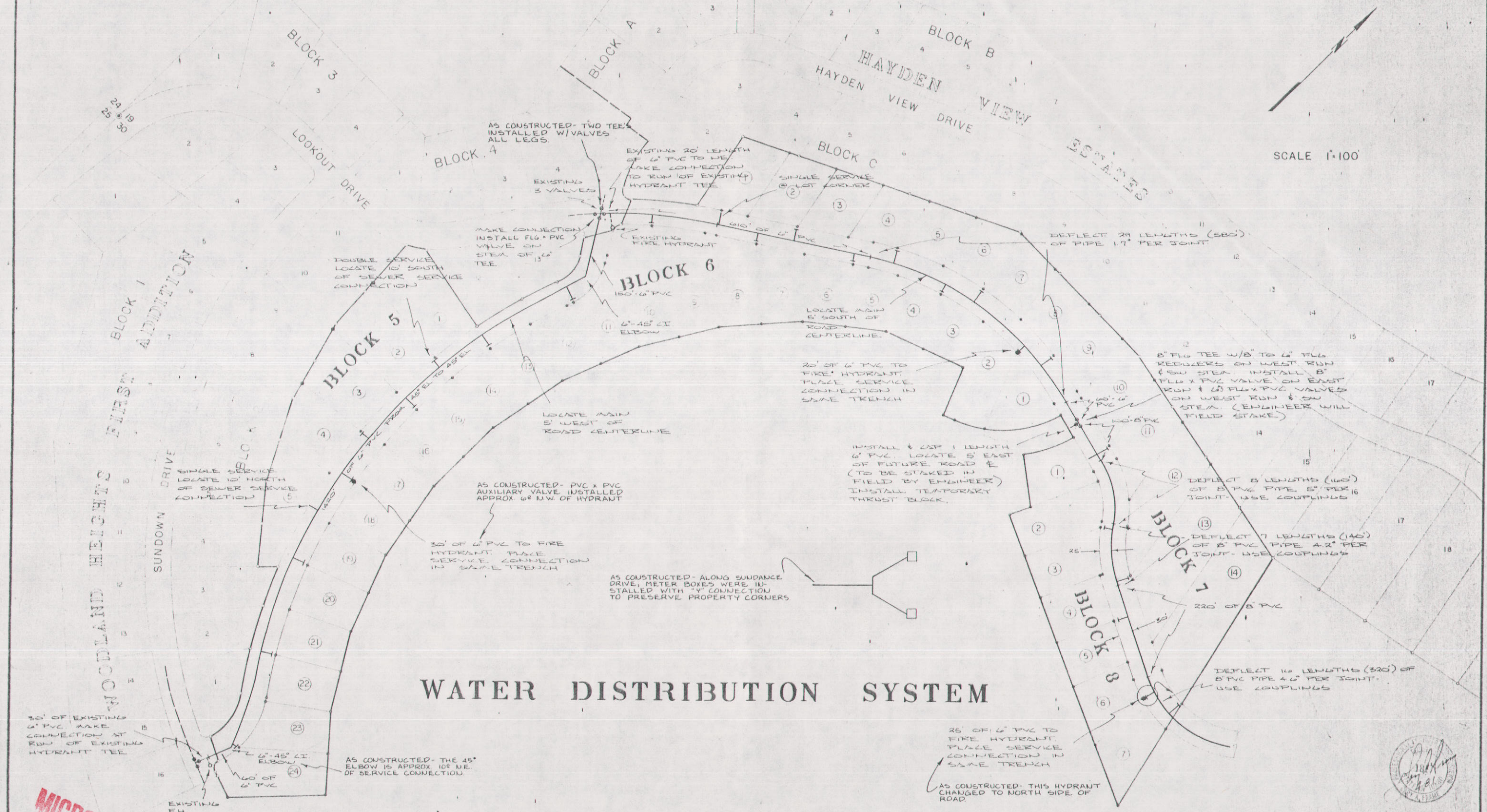
SCALE 1" = 100'
DATE 8-81
19-51-3
4139
DRAWN BY JHF
REVISED

LE PARD & FRAME
Consulting Engineers
Coeur d'Alene, Idaho

SHEET 5 OF 5
LF

WOODLAND HEIGHTS SECOND ADDITION

IN SECTIONS 19 & 30, TOWNSHIP 51 NORTH, RANGE 3 WEST, B.M., KOOTENAI COUNTY, IDAHO



WATER DISTRIBUTION SYSTEM

AS CONSTRUCTED 4/6/81

WOODLAND HEIGHTS SECOND ADDITION - WATER DISTRIBUTION SYSTEM		LEPARD & FRAME Consulting Engineers Coeur d'Alene, Idaho	SHEET 2 OF 6
SCALE 1"=100'	DRAWN BY E.M.A.		
DATE 11/77	CHECKED BY		

MICROFILMED

SCALE 1"=100'

DEFL PIPE RIGHT 2° PER JOINT FOR 100' TO BECOME TANGENT TO R/W

ADJUST TIES TO HERE

3-22½° ELBOWS

WOODLAND HEIGHTS FIRST ADDITION

6" MAIN

2"-90° EL

2" GATE VALVE IN CAST IRON EXT. TYPE VALVE BOX

TYPICAL HYDRANT DETAIL

2"x6"x6" TEE

VALVE KP's AT INTEX SUNDOWN DRIVE & LOOKOUT DRIVE.
51¼' FROM HYDRANT TO SE
34" N10°W TO 18" PP
40" N45°E SW COR TELE BOX

2" MAIN

THIS SERVICE ONLY-1" PVC w/1" ADAPTOR & CURB STOP

230' - 1¼" PVC

1¼" PVC (AS PER TYPICAL)

20' LENGTH 2" PVC

2" GATE VALVE IN CAST IRON EXTENSION TYPE VALVE BOX

BLOCK 2

TYPICAL HYDRANT CONNECTION

TYPICAL SERVICE CONNECTIONS

2"x2"x1"x1" CROSS INSTALL 1" CURB STOPS EACH SIDE & BUSH WEST RUN TO 1¼"

SUNDOWN DRIVE

1400' OF 6" MAIN (DEFL PER JOINT 2°)

TYPICAL SERVICE CONNECTIONS

BLOCK 1

EXTEND TO A POINT 5' BEYOND THE LOMAX LOT CORNER

B/A SPIKE IN PGN POLE 20' NW OF SEC. COR
ELEV: 2355.98'

6" TEE FOR HYDRANT-PLUG NE RUN & INSTALL TEMPORARY THRUST BLOCK.

TYPICAL HYDRANT INSTALLATION

THIS SERVICE ONLY-1" PVC w/1" ADAPTOR & CURB STOP

TAP 6" MAIN & INSTALL TEMPORARY AIR RELEASE VALVE & THRUST BLOCK

6" TEE WITH 6" GATE VALVES IN EXTENSION TYPE CAST IRON VALVE BOXES EACH LEG. FITTINGS MAY BE ALL HUB OR HUB BY FLANGE IF FLANGED TEE IS USED.

WOODLAND HEIGHTS

T.B.M. (5/8") SPIKE IN SE SIDE OF 12" BULL PINE 120' SW OF STA 13+50 SUNDOWN DRIVE.
ELEV = 2405.41'

SHEET TOTALS

6" MAIN	1900'
2" MAIN	340'
1¼" CONN	560'
1" CONN	50'
6" VALVES	3
2" VALVES	2
HYDRANTS	5
AIR RELEASE	1
TOTAL LOTS SERVED	34

1" = 10' VERTICAL
1"=100' HORIZONTAL

EXISTING GROUND

PLAN & PROFILE FOR WOODLAND HEIGHTS 1ST ADD'N
KOOTENAI CO.
DATE 8/74

LE PARD & FRAME
Consulting Engineers
Coeur d'Alene, Idaho

SHEET 2 OF 6

K+E PLATE I PLAN-PROFILE
KEUFFEL & ESSER CO.
48 7008 MADE IN U.S.A.

MICROFILMED

HAYDEN VIEW ESTATES FIRST ADDITION

IN THE S½ SECTION 19, TOWNSHIP 51 NORTH, RANGE 3 WEST, BM. KOOTENAI COUNTY, IDAHO

N

SCALE 1" = 100'

EXISTING SERVICE CONNECTION WITH AIR RELEASE VALVE. INSTALL HYDRANT AT LOT CORNER WITH 6" CI HUB TEE WITH GATE VALVE ON EAST RUN OF TEE. USE DRESSER ON WEST RUN. SALVAGE AIR RELEASE VALVE FROM SERVICE CONNECTION & INSTALL ON FIRE HYDRANT LINE.

FROM BOOSTER PUMP

EXISTING 6" CI HUB TEE. MAKE CONNECTION & INSTALL 6" PVC GATE VALVE

EXISTING 6" PVC

EXISTING SERVICE CONNECTIONS

EXISTING SERVICE CONNECTION (PLACE METER FOR LOT 2 @ NE COR LOT 2)

AS CONSTRUCTED- FIRE HYDRAUT CHANGED TO HERE

AS CONSTRUCTED- 12" MAIN INSTALLED TO HONEYSUCKLE HILLS WATER SYSTEM SEE PLANS OF 7/78

AS CONSTRUCTED- 12" MAIN INSTALLED TO 16" WELL, 4/1200 HP PUMP AT SW COR GOV'T WAY & HONEYSUCKLE AVE. SEE PLANS OF 7/78

6" PVC TO RESERVOIR

EXISTING FIRE HYDRANT

SINGLE SERVICES @ LOT CENTERS

DEFLECT 14 LENGTHS (280') OF 6" PVC PIPE 4.1° PER JOINT. USE COUPLINGS

AS CONSTRUCTED- SEWER LINE PLACED ALONG FUTURE LOT LINE TO WATER LINE OF PACKSADDLE DRIVE. SEE PLANS OF 9/79.

AS CONSTRUCTED- 6" MAIN INCREASING TO 8" MAIN INSTALLED WITH SEWER LINE TO NEW 100,000 GAL RESERVOIR. SEE PLANS OF 9/79.

DEFLECT 15 LENGTHS (300') OF 8" PVC PIPE 3.1° PER JOINT

DEFLECT 16 LENGTHS 320' OF 8" PVC PIPE 4.6° PER JOINT. USE COUPLINGS AROUND ENTIRE CURVE.

330'-2" PVC PIPE

SEE DETAIL SHEET # 4

INSTALL FIRE HYDRANT & AIR RELEASE AT HIGH POINT IN LINE SEE DETAIL.

INSTALL FIRE HYDRANT

INSTALL 6" CI FLG TEE AT HIGH POINT IN LINE (ENGINEER WILL FIELD STAKE) INSTALL 6" FLG x PVC VALVE & 45° OF 6" PVC TO SW PLACE CAP & TEMPORARY THRUST BLOCK. INSTALL FLG x PVC VALVE ON NW RUN & FLG x PVC ADAPTOR ON SE RUN

AS CONSTRUCTED- 250,000 GALLON CONCRETE RESERVOIR INSTALLED SEE PLANS OF 7/78.

AS CONSTRUCTED- TWO 7½ HP RED JACKET 6M66 (80 GPM EACH AT 250' HEAD) 230 V. SINGLE PHASE SUBMERSIBLE PUMPS PLACED IN BOTTOM (18') RESERVOIR W/INDIVIDUAL GATE & CHECK VALVE, EACH ALL WEATHER LOCKING PUMP CONTROL PANEL MOUNTED ON SIDE OF RESERVOIR

AS CONSTRUCTED- 6" PVC MAIN W/SENSOR LINE INSTALLED

6" FLG x FLG x PVC TEE W/FLG x PVC VALVE EACH RUN

INSTALL MAIN WITH CONSTANT RISE TO TEE

DEFLECT 11 LENGTHS (220') OF 6" PVC 2.5° PER JOINT

DEFLECT 10 LENGTHS (200') OF 6" PVC 5.8° PER JOINT USE COUPLINGS

SPECIAL SERVICES

DEFLECT 14 LENGTHS 280' OF 6" PVC 6.4° PER JOINT. USE COUPLINGS

LOCATE 6" PVC MAIN 5' SOUTH OF ROAD CENTERLINE

DEFLECT 15 LENGTHS (300') OF 6" PVC 2.6° PER JOINT

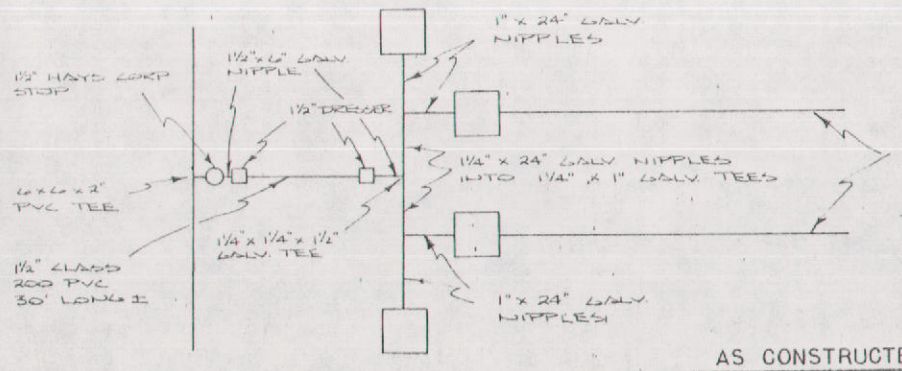
INSTALL FIRE HYDRANT. PLACE SERVICE CONNECTION IN SAME TRENCH

6" CI. PVC x PVC x FLG TEE. INSTALL PLUG & TEMPORARY THRUST BLOCK ON NE RUN & 6" FLG x PVC VALVE ON STEM. INSTALL 40 OF 6" PVC TO SE. (5' SW OF ROAD &) & INSTALL HYDRANT ITEE. INSTALL HYDRANT OFF STEM 20' TO SW. PLUG & TEMPORARY THRUST BLOCK RUN TO SE.

BLOCK D

BLOCK E

BLOCK F



MICROFILMED

AS CONSTRUCTED 4/6/81

WATER DISTRIBUTION SYSTEM FOR WOODLAND HTS		LEPARD & FRAME Consulting Engineers Coeur d'Alene, Idaho	SHEET 3 of 6 1F
SCALE 1" = 100'	HAYDEN VIEW ESTATES	DRAWN BY E.A.M.	
DATE 11/77		REVISED	

HAYDEN VIEW ESTATES

SCALE 1"=100'

WOODLAND HEIGHTS 1 ST. ADD'N

LOOKOUT DR.

LOOKOUT

DRIVE

HAYDEN VIEW DRIVE

TYPICAL HYDRANT INSTALLATION

22½° ELL

DEFL. RT. 2° PER JOINT FOR 160'

DEFL. RT. 2° PER JOINT FOR 160'

22½° ELL

20' LENGTH 6" PVC

6" TEE PLUG & PLACE TEMPORARY AIR RELEASE & TEMPORARY THRUST BLOCK ON NE RUN

TYPICAL HYDRANT DETAIL

DEFL. PIPE 1° PER JOINT

DEFL. PIPE RT 1¼° PER JOINT.

SERVICE CONNECTION WITH AIR RELEASE VALVE

FIRE HYDRANT INSTALLATION

QUANTITIES FROM HERE

QUANTITIES TO HERE

DEFL. PIPE RIGHT 2° PER JOINT FOR 1ST 100' PAST 22½° ELBOW

3-22½° ELS

6" CROSS W/ 6" GATE VALVES IN EXTENSION TYPE CAST IRON VALVE BOXES ON ALL BUT SE LEG. PLUG & PLACE TEMPORARY THRUST BLOCK ON SE LEG

NOTE: ALL ROADS TO BE CONSTRUCTED TO LAKE HIGHWAY DISTRICT STANDARDS

8/8/94

SHEET TOTALS

6" MAIN	2220'
2" MAIN	0'
1¼" CONN.	420'
1" CONN.	0
6" VALVES	3
2" VALVES	0
HYDRANTS	3
AIR RELEASE	2
TOTAL LOTS SERVED	32

TBA (L-1) SPIKE IN SE SIDE OF 20" BULL PINE 50 EAST OF STA 16+90 ELEV = 2411.5'

TBA #4 SPIKE IN WEST SIDE OF 14" BULL PINE JUST AT TREELINE IN BE FIELD ≈ 200' W OF NO FENCE LINE & ≈ 125' S OF ENT FENCE ELEV = 2567.7'

TBA (L-5) SPIKE IN SOUTH SIDE OF 8" FIR 50' N OF STA 44+50 BS ELEV = 2451.8'

TBA (L-2) SPIKE IN SOUTH SIDE OF 6" TAMARACK 50' NORTH OF STA 30+90 ELEV = 2423.5'

PLAN — NOTE BOOK — No.

PROFILE — NOTE BOOK — No.

K+E PLATE 1. PLAN-PROFILE KEUFFEL & ESSER CO. 46 7008 MADE IN U.S.A.

ROAD PROFILED FOR HAYDEN VIEW ESTATES — HORIZ. SCALE 1"=100' — VERT. SCALE 1"=10' — KOOTENAI CO. — DRAWN BY EJAVA — CHECKED — REVISED

LE PARD & FRAME Consulting Engineers Coeur d'Alene, Idaho

SHEET 5 OF 6 4F

REGISTERED PROFESSIONAL ENGINEER 13174 STATE OF IDAHO GARY A. FRAME

REGISTERED LAND SURVEYOR 1316 STATE OF IDAHO

APPROVED

HAYDEN VIEW ESTATES

SCALE 1" = 100'

HAYDEN VIEW 550' DRIVE

QUANTITIES FROM HERE

TYPICAL HYDRANT INSTALLATION

SERVICE CONNECTION WITH AIR RELEASE VALVE

DEFL. PIPE LEFT 1½°/JOINT

22½° ELS

6" GATE VALVES IN EXT TYPE C.I. VALVE BOXES

1¼" SADDLE W/ 1" x 1" x 1¼" GALV. TEE & CURB STOPS EACH RUN FOR SERVICE CONNECTION.

TYPICAL HYDRANT INSTALLATION WITH 1" SERVICE CONNECTION IN SAME TRENCH FOR LOT 19.

6" MAIN

TO RESERVOIR (REFER TO DETAIL AT RIGHT)

MAKE 6" TEE CONNECTION TO EXISTING 6" DIPPED & WRAPPED 10 GAUGE STEEL PIPE ON EAST SIDE OF EXISTING VALVE (SIZE UNKNOWN)

EXISTING 6"

EXISTING 4"

6" GATE VALVE IN EXT. TYPE C.I. VALVE BOX

470' ± 6" PVC

PUMP STATION SEE PLAN

DEFL. RT. 1°/JOINT FOR 100'

DEFL. LT 1°/JOINT

6" TEE, PLUG EAST RUN & PLACE TEMPORARY THRUST BLOCK

SERVICE CONNECTION WITH AIR RELEASE VALVE

1" SERVICE CONNECTION W/ AIR RELEASE VALVE OFF WEST RUN OF TEE.

TO HAYDEN VIEW DRIVE MAIN

650' ± 6" MAIN

6" GATE VALVE IN EXT. TYPE CAST IRON VALVE BOX

8"x6"x6" TEE - PLUG STEM TO WEST & PLACE TEMP. GRAVITY THRUST BLOCK. LOCATE 21' NORTH OF R/W LINE.

46°-8" MAIN

46° EL.

280' ± 8" MAIN

RESERVOIR SEE DETAIL

SHEET TOTALS

8" MAIN	320'
6" MAIN	2990'
2" MAIN	0
1¼" COPPER	360'
1" COPPER	30'
6" VALVES	6
2" VALVES	0
HYDRANTS	1
AIR RELEASE	3
TOTAL LOTS SERVED	30

SCALE
1"=10' VERTICAL
1"=100' HORIZONTAL

PLAN
LOCATION
PLOTTED
NOTE BOOK ALIGNMENT CHECKED
AS-BUILT CHANGES
No.

PROFILE
LOCATION
PLOTTED
NOTE BOOK GRADES CHECKED
AS-BUILT CHANGES
No.

K+E PLATE 1, PLAN-PROFILE
KEUFFEL & ESSER CO.
46 7008 MADE IN U.S.A.

PLAN & PROFILE FOR HAYDEN VIEW ESTATES
SCALE AS NOTED
DATE 8/74
KOOTENAI CO., IDAHO
DRAWN BY EMA
REVISED

LE PARD & FRAME
Consulting Engineers
Coeur d'Alene, Idaho

SHEET 1 OF 2

1317
REGISTERED PROFESSIONAL ENGINEER
STATE OF IDAHO
CARY A. FRAME

1316

MICROFILMED

POOR QUALITY ORIGINAL

SCALE 1"=100'

AS BUILT:
FIRE HYDRANT & GATE VALVE INSTALLED

W/4 CORNER OF SEC. 24, T51N, R4W, BM

INSTALL 60 LF 26" x 1/4" STEEL CASING UNDER R/W TO EDGE R/W UNDER DON'T WAT INSTALL 12" CL 200 AC PIPE ON SCANTS: ASPHALT, CHAMFER CUTS: TOP OF CASING TO BE MINIMUM OF 5 FEET BELOW TOP PAVEMENT LOCATE BOARDS IN PIT ON EAST SIDE OF DON'T WAT

INSTALL 12" HUB VALV AT EAST END OF CASING WITH CAST IRON EXTENSION VALVE BOX SECURE WITH #4 REBAR STAKES INTO THRUST BLOCK, 15 SQ FT

NOTE: THE CONTRACTOR SHALL CONTACT ALL UTILITIES AND HAVE THEM FIELD LOCATE ALL UNDERGROUND SERVICES

AS BUILT:
OPEN CUT- CASING NOT INSTALLED

INSTALL 45' OF 20" x 1/4" STEEL CASING UNDER ROADWAY INSTALL 12" CL 200 AC PIPE ON 3" A COMMERCIAL SKIDS. TOP OF CASING TO BE MINIMUM OF 5 FEET BELOW TOP OF PAVEMENT. REMOVE & REPLACE ASPHALT. CLOSE 4TH ST. FROM HONEYSUCKLE AVENUE TO PRAIRIE AVENUE WHILE INSTALLING CASING

HONEYSUCKLE AVENUE - ASPHALT PAVED

MAPLE AVE

STA 32+00

4TH ST. - ASPHALT PAVED

PUMPHOUSE

REMOVE & REPLACE FENCE AS REQ'T

ASPHALT TYP OF TRENCH NOT TO EXCEED 100' SHALL NOT BE ALONG TRAFFIC IS FLOWING

EXISTING HYDRANT

2760' OF 12" CL 200 AC PIPE END CASING TO END CASING LOCATE 60 SOUTH OF EXISTING TEE. MINIMUM DEPTH OF BURY 4½' TO TOP OF PIPE EXCEPT AS NOTED. REMOVE AND REPLACE TOPSOIL

20' WIDE WATER LINE EASEMENT PARALLEL TO AND SOUTH OF THE SOUTH R/W OF HONEYSUCKLE AVE.

TOP OF PIPE TO BE AT MINIMUM OF 4' BELOW FINISHED GRADE

BASIN TEE CABLE MARKER REMOVE & REPLACE FENCE

REMOVE & REPLACE EXISTING ASPHALT AS REQ'D FOR PARKING LOT

STA 1+00 EXISTING 6" WELL SEE PUMP PLAN

INSTALL BASIN 15' NORTH OF R/15

GOVERNMENT WAY

BM SPIKE IN LIGHT POLE NEAR NW STEP HONEYSUCKLE & MAPLE. ELEV = 2257.43'

12" PLUG TEE W/16 SQ FT THRUST BLOCK

12" PLUG TEE W/16 SQ FT THRUST BLOCK

10" GATE VALVE W/CAST IRON VALVE BOX & FIRE HYD

PROFILE

HORIZONTAL SCALE 1" = 50'
VERTICAL SCALE 1" = 10'

ROAD & GROUND PROFILE

TOP PIPE

GROUND PROFILE

REFLECT PIPE 1.5° PER JOINT THROUGH ALLEY

MAXIMUM CUT = 9½' To TOP PIPE. (9' TRENCH)

TOP OF PIPE SHALL BE A MINIMUM OF 4½' BELOW SMALLER OF HONEYSUCKLE AVE

ROAD PROFILE

GROUND PROFILE

GROUND & ROAD PROFILE

2270

PLATE 3 SINGLE PLAN - PROFILE
CHARLES BRUNING CO

WATER SYSTEM FOR WOODLAND HEIGHTS, HAYDEN VIEW ESTATES & HONEYSUCKLE HILLS

SCALE AS NOTED | KOOTENAI CO., IDAHO | DRAWN BY | DATE 1977 | REVISED 1-80

LE PARD & FRAME
Consulting Engineers
Coeur d'Alene, Idaho

SHEET 2 OF 12

MICROFILMED

SOUTH SHORE ROAD - HAYDEN LAKE

FOURTH STREET

LOCH HAVEN DRIVE

NOTE:
SEE LOCH HAVEN HILLS WATER PLANS FOR CONN TO 12" MAIN STA 42+09.81 TO STA 68+15.59

PC STA 68+15.59

PT STA 69+09.82

INSTALL 12" A.C. VALVE W/THRUST BLOCK IN LINE AT PC 68+15.59

INSTALL 819± LF OF 12" CL 150 PVC PIPE ½ NORTH OF NEW ROAD ℄ FROM END OF 90° CURVE TO WEST SIDE OF NEW TURNOUT. HEIGHTS HAYDEN VIEW ESTATES

INSTALL 820± LF OF 12" CL 150 PVC PIPE ½ NORTH OF NEW ROAD ℄ AROUND 90° CURVE. THE WEST END WILL BE EL 2320, STA THE BALANCE WILL BE EL 1850±

AS BUILT
ROAD ALIGNMENT SHIFTED. VALVES ON NORTH EDGE OF ROAD.

GROUND LINE AT ROAD ℄

SHOULDER GRADE / LOCH HAVEN DRIVE

PIPELINE

SHOULDER GRADE LOCH HAVEN DRIVE

PIPELINE UNDER ROADWAY FROM THIS POINT

PIPELINE

GROUND LINE

AIR RELEASE DRAIN LINE

AIR RELEASE ASSEMBLY AT HIGH POINT IN LINE

2-90° ELS W/CLOSE NIPPLE, SCREEN OPENING W/ WINDOW SCREEN & STAINLESS STEEL CLAMP

18"

½" GALV. RISER

2" GALV. RISER

½" GALV. TEE

½" GALV. SELF DRAINING LINE

PLACE 70± OF CLASS 160 PVC IN TRENCH TO DAYLIGHT AT STA 39+20 TERMINATE 18" ABOVE GROUND & SCREEN W/ STAINLESS STEEL CLAMP & WINDOW SCREEN

2" PVC ADAPTER

2"x2"x½" GALV TEE

2" GALV TEE

2" GATE VALVE

CRESPIN 2" COMBINATION AIR VALVE

12"x2" STAINLESS STEEL SADDLE

12" AC MAIN

AIR RELEASE ASSEMBLY
SCALE: NONE

SCALE
1" = 10' VERTICAL
1" = 100' HORIZONTAL

PROFILE

PLATE 1 SINGLE PLAN - PROFILE
CHARLES BRUNING CO

MICROFILMED

WATER SYSTEM FOR WOODLAND HEIGHTS, HAYDEN VIEW ESTATES, & HONEYSUCKLE HILLS

SCALE AS NOTED
DATE 1977

KOOTENAI CO, IDAHO

DRAWN BY
REVISED 1-80

LE PARD & FRAME
Consulting Engineers
Coeur d'Alene, Idaho

SHEET 3 OF 12
LF

PC STA. 66+13.52
PT STA. 67+00.39
PC STA. 68+15.39
PT STA. 69+09.86
PC STA. 69+91.70
PRC STA. 70+85.21
E.R. 400' L. 187.07
T. 118.60
E.R. 200' L. 194.76
T. 81.85
E.R. 200' L. 183.51
E.R. 200' L. 376.05
E.R. 200' L. 349.01
PRC STA. 74+31.54
PT STA. 77+80.54
℄ STA. 71+50.81 SEE NOTE BELOW FOR IRRIGATION PIPELINE CROSSING
LOCATE EXISTING PVC DRAIN LINE FROM SEWAGE TREATMENT PLANT. RETAIN & PROTECT. PLACE 12" AC MAIN UNDER DRAIN LINE.
LOCATE EXIST WATER AND SEWER LINE TO LAGOON. RETAIN & PROTECT.
INSTALL 12" AC VALVE W/THRUST BLOCK IN LINE AT PC 68+15.39
INSTALL 630'± OF 12" CL 150 AC 5' NORTH OF ROAD ℄ FROM VALVE TO END OF CURVE
INSTALL 110' OF 12" CL 150 AC FROM END OF CURVE SOUTH TO POINT 5' NE OF R/W LINE
INSTALL 22½° CI EL W/THRUST BLOCK
INSTALL 370'± OF 12" CL 150 AC AROUND OUTSIDE OF CURVE 5' INSIDE OF R/W LINE FROM 22½° EL TO WEST R/W LINE OF HAYDEN VIEW DRIVE
8" SEWER
BLOCK B
HAYDEN VIEW ESTATES
HAYDEN VIEW DRIVE
BLOCK C
INSTALL 12" AC VALVE W/THRUST BLOCK IN LINE ON WEST SIDE OF 22½° EL.
INSTALL 130' OF 12" CL 150 AC 5' NORTH OF LOT LINE
INSTALL 78'± OF 12" CL 150 AC
INSTALL 635'± OF 12" CL 150 AC 10' SOUTH OF LOT LINE FROM EL TO EL.
INSTALL 22½° CI EL W/THRUST BLOCK
INSTALL 45° CI ELS W/THRUST BLOCKS
STA. 88+05 INSTALL 22½° CI EL W/THRUST
INSTALL 960'± OF 12" CLASS 150 AC 10' SOUTH OF LOT LINE FROM EL TO EL.
BLOCK 7
BLOCK 1

SCALE
VERT. 1" = 10
HORZ. 1" = 100'

INSTALL 78'± OF 12" CL 150 AC FROM WEST R/W LINE OF HAYDEN VIEW DRIVE TO A POINT 15' EAST OF EAST R/W LINE OF HAYDEN VIEW DRIVE AND 5' NORTH OF LINE COMMON TO LOTS 2 & 3 BECAUSE A NEW CULVERT WILL BE PLACED IN THE SAME ROADWAY CUT, PLACE THE PIPELINE ON A STRAIGHT GRADE FROM A FOUR FOOT COVER AT THE WEST R/W LINE TO A FOUR FOOT COVER AT THE EAST ROADWAY DITCH. COMPACT FILL TO 100% OF EXISTING AND REPLACE PAVEMENT STRUCTURE. OWNER WILL FURNISH THE CULVERT AND THE CONTRACTOR WILL INSTALL IT DURING BACKFILL OPERATIONS. COORDINATE ACTIVITIES SUCH THAT ROADWAY CLOSURE WILL BE HELD TO AN ABSOLUTE MINIMUM. IF POSSIBLE, OWNER WILL PROVIDE TEMPORARY DETOUR VIA LOOKOUT DRIVE.

NOTE: AN EXISTING 6" PVC WATER MAIN & A 6" PVC SEWER LINE LIE WITHIN HAYDEN VIEW DRIVE AS WELL AS UNDERGROUND POWER AND TELEPHONE. LOCATE, RETAIN & PROTECT SEWER JUNCTION STUBOUTS ALSO EXIST AT THE COMMON CORNERS OF LOTS 1 & 2, BLK A & LOTS 2 & 3, BLK C. THE OWNER WILL DIRECT ANY EXTENSIONS OF THESE STUBOUTS.

DALTON IRRIGATION PIPELINE
INSTALL TOP OF 12" AC MAIN MINIMUM OF FOUR FEET BELOW BOTTOM OF IRRIGATION PIPELINE. AN 8" DOMESTIC MAIN FOR DALTON GARDENS IS LOCATED ALONG THE IRRIGATION PIPELINE ON THE EAST SIDE. RETAIN AND PROTECT THIS MAIN AND PLACE THE 12" AC MAIN ABOVE IT

SHOULDER GRADE LOCAL HAVEN DRIVE

HAYDEN VIEW DRIVE CROSSING

AS BUILT
USED A 22½° ELL TO MISS EXIST. WATER LINE

EXISTING GROUND

12" CLASS 150 AC

12" CLASS 150 AC

PROFILE

PLATE 1 SINGLE PLAN - PROFILE
CHARLES BRUNING CO

WATER SYSTEM FOR WOODLAND HEIGHTS, HAYDEN VIEW ESTATES, & HONEYSUCKLE HILLS
SCALE AS NOTED
DATE 1978
KOOTENAI CO., IDAHO
DRAWN BY
REVISED 1-80
LE PARD & FRAME
Consulting Engineers
Coeur d'Alene, Idaho
SHEET 4 OF 12
LF

MICROFILMED

EXISTING 10 ga D & W STEEL PIPE IN ROADWAY

SEE DETAIL THIS SHEET

EXISTING 6" DV ON S. SIDE ROAD

EXISTING BOOSTER PUMPHOUSE

440' ± 12" PVC LOCATE IN ALLEYWAY ON EAST SIDE 6" PVC

EXISTING 6" PVC

12" 45° CI ELS. LOCATE 5' INSIDE ROAD R/W

80' - 12" PVC

285' - 12" PVC

260' - 12" AC TEE TO TEE

SEE RESERVOIR PLAN

INSTALL 22½° CI ELS W/THRUST BLOCKS

225' 12" AC EL TO TEE

880' 12" AC EL TO EL

INSTALL 6" PVC SEE RESERVOIR PLAN & HAYDEN VIEW ESTATES WATER SYSTEM.

STA. 112+50 12" PLUG TEE W/12" FLG X AC VALVE ON W. RUN, 12" FLG BY PVC VALVE ON NORTH STEM & FLG X AC ADAPTOR ON E RUN

BLOCK D

HAYDEN VIEW DRIVE

HAYDEN VIEW ESTATES FIRST ADDITION

BLOCK E

HAYDEN VIEW ESTATES

910' ± 12" AC EL TO EL

EXISTING 6" PVC RESERVOIR SUPPLY LINE. RETAIN & PROTECT.

STA. 97+65 INSTALL 22½° CI EL W/THRUST BLOCK

LOOKOUT DRIVE

BLOCK F

N

SCALE 1" = 100'

PLAN

PROFILE

EXISTING GROUND

12" CLASS 150 AC

12" CLASS 160 PVC TO EXIST HONEYSUCKLE HILLS WATER DISTR SYSTEM

RESERVOIR SEE PLAN

SCALE
HORZ 1" = 100'
VERT 1" = 10'

PLATE I SINGLE PLAN - PROFILE
CHARLES BRUNING CO

EXISTING 4" STEEL

EXISTING 4" STEEL

TEMPORARY THRUST BLOCK

EXISTING 6" GATE VALVE

INSTALL 6" CI ALL HUB TEE IN EXISTING 6" PVC MAIN. USE DRESSER CONNECTIONS

INSTALL 12 x 12 x 6" ALL FLG CI. TEE W/12" FLG VALVE ON NORTH RUN (ERNIP WITH BLIND FLG & TEMPORARY THRUST BLOCK). INSTALL 6" FLG x PVC VALVE ON STEM & MAKE CONNECTION WITH 6" PVC TO STEM OF NEW TEE IN EXISTING PVC LINE, & INSTALL 12" FLG x PVC ADAPTOR ON SOUTH RUN.

HONEYSUCKLE HILLS CONNECTION DETAIL

WATER SYSTEM FOR WOODLAND HEIGHTS, HAYDEN VIEW ESTATES, & HONEYSUCKLE HILLS

SCALE AS NOTED — KOOTENAI CO., IDAHO — DRAWN BY — DATE 1978 — REVISED 7-78

LE PARD & FRAME Consulting Engineers Coeur d'Alene, Idaho

SHEET 5 OF 12 LF

MICROFILMED

POOR QUALITY ORIGINAL

EXHIBIT "A"

HAYDEN LAKE WELL COMPANY JOINT VENTURE AGREEMENT

THIS AGREEMENT made and entered into this 22nd day of August, 1978, by and between HONEYSUCKLE HILLS OWNERS ASSOCIATION, INC., an Idaho Corporation, having its principal place of business at Hayden Lake, Idaho, herein referred to as "Honeysuckle" and HILLSIDE SERVICE CO., an Idaho Corporation, having its principal place of business at Coeur d'Alene, Idaho, herein referred to as "Hillside":

MICROFILMED

WHEREAS, the parties hereto are mutually interested in the development, sale and welfare of the area hereinafter more particularly described, and the present and future inhabitants thereof, and in providing a good water supply and transmission line thereto, and

WHEREAS, "Honeysuckle" has acquired a well site upon which a well has been drilled and a transmission line is being constructed therefrom and the parties wish to mutually construct, own, operate and maintain a water distribution system for the purpose of obtaining, storing, selling, delivering, measuring and distributing water to inhabitants (present and future) of that area encompassed within the area described and set forth in Exhibit "A" attached hereto and in such other areas as may be mutually determined and can be lawfully and adequately served,

NOW,THEREFORE, the parties hereby constitute themselves as joint venturers under the name and style of "Hayden Lake Well Company" solely for the purpose of performing the above, and to carry out their joint venture, the parties hereto do agree as follows:

1) The property described and set forth in Exhibit "B" together with all well equipment, storage tanks, transmission lines and the like (except as may be otherwise specifically reserved),

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together with all easements required therefore, will be transferred to the joint venture by appropriate conveying instruments as may be required to effect the same by either of the parties hereto.

2) The well site and transmission line are depicted and set forth in Exhibit "B" attached hereto.

3) The interests of "Honeysuckle" and "Hillside" in and to any and all property, property rights, accessories, equipment and appurtenances and in and to any and all monies which may be derived from the sale and/or transmission of water and the obligations and liabilities of each with respect to any and all liabilities and losses in connection therewith. shall be equal unless otherwise herein provided.

4) All necessary working capital, when and as required for the cost of obtaining the well site, the construction of the main transmission line therefrom, and the procurement and installation of any and all pumps, water pipes, pipe lines, connections, reservoirs and other accessories and appurtenances, and easements therefore, and any and all other reasonable and necessary expenses incident thereto, shall be borne 40% by "Honeysuckle", and 60% by "Hillside". If additional storage is needed up to 500,000 gallons (it being understood that the initial construction according to plans and specs herein provided, is for 250,000 gallons), the cost of obtaining and/or constructing facilities for such additional storage will be shared by the parties on the same percentage basis.

5) A bank account shall be opened in such bank as the parties may determine, in which all funds for the performance hereof as well as the funds received on account thereof shall be deposited. Withdrawals shall be made from such bank account in such manner and in such form as the parties may from time to time direct.

6) Neither party shall have the right to borrow money on behalf of the other party, or to use the credit of the other party

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STATE OF IDAHO)
ss.
County of Kootenai)

On this 22 day of May, 1978, before me, the undersigned Notary Public in and for said State, personally appeared Ray Williams and W. H. Erickson known to me to be the President and Secretary, respectively, of HONEYSUCKLE HILLS OWNERS ASSOCIATION, the corporation that executed the foregoing instrument, and acknowledged to me that such corporation executed the same.

WITNESS My hand and official seal.

Notary Public for Idaho
Residing at Coeur d'Alene-Post Falls

MICROFILMED

STATE OF IDAHO)
ss.
County of Kootenai)

On this 22 day of May, 1978, before me, the undersigned Notary Public in and for said State, personally appeared Robert Lamprecht and George Arndt known to me to be the President and Secretary, respectively, of HILLSIDE SERVICE CO., the corporation that executed the foregoing instrument, and acknowledged to me that such corporation executed the same.

WITNESS My hand and official seal.

Notary Public for Idaho
Residing at Coeur d'Alene
Post Falls