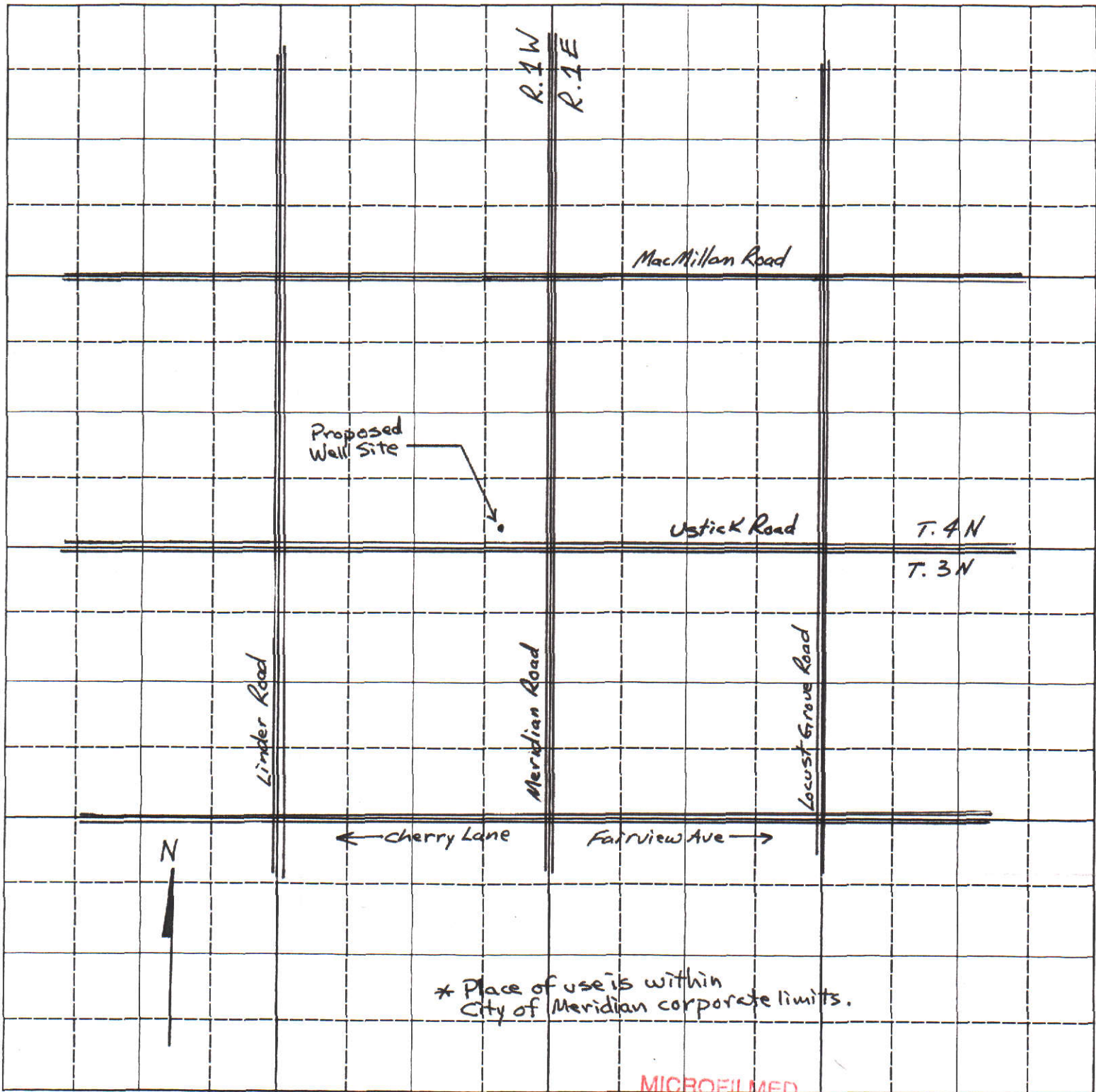


13. Map of proposed project: show clearly the proposed point of diversion, place of use, section number, township and range number.

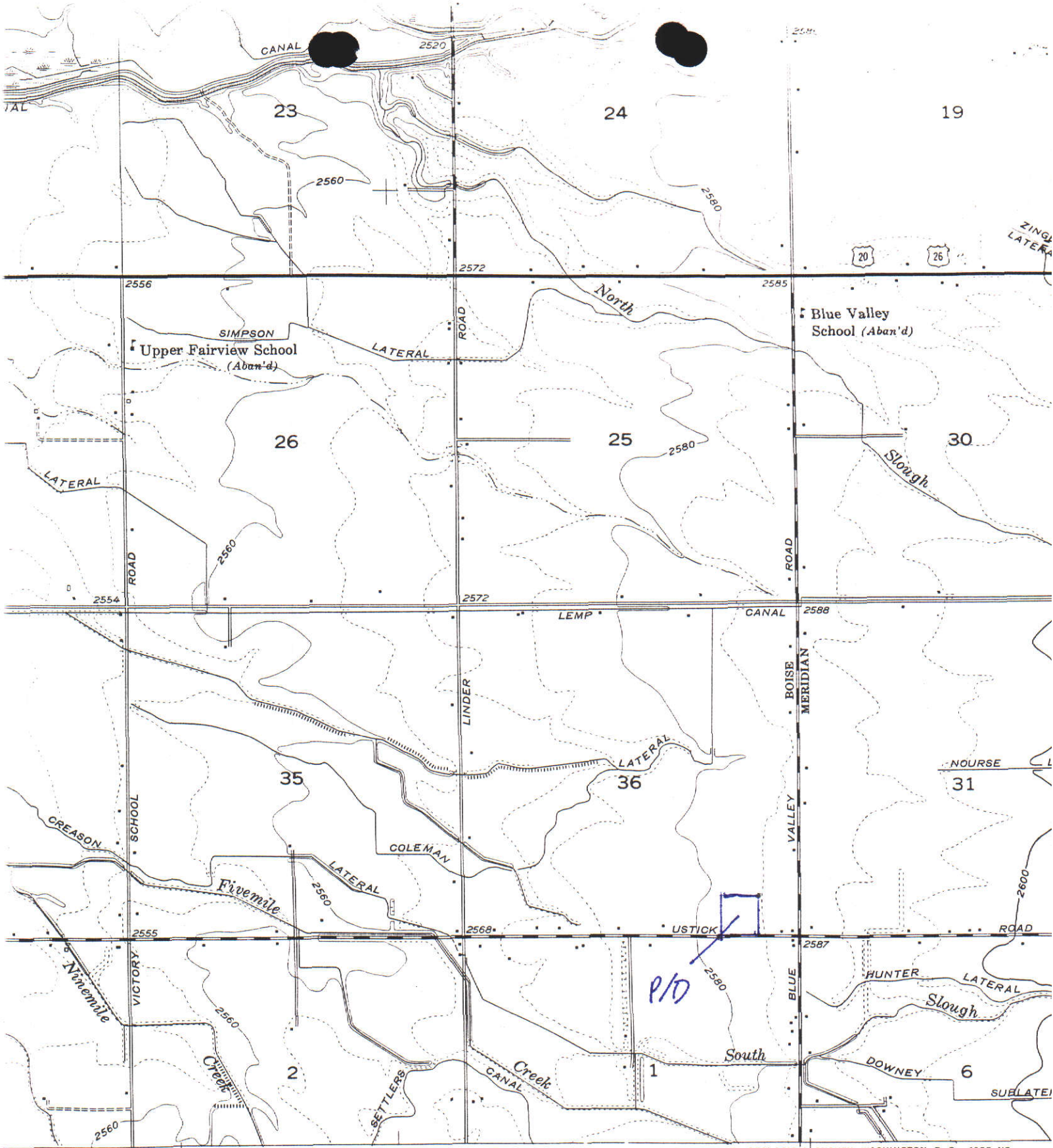


Scale: 2 inches equal 1 mile.

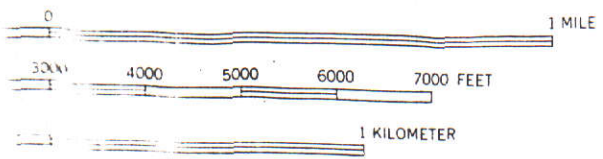
FEB 13 1998

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)
Robert D. Corrie, Mayor



(MERIDIAN)
SCALE 1:24,000



CONTOUR INTERVAL 20 FEET
REPRESENT 5 FOOT CONTOURS
IS MEAN SEA LEVEL

SWSESE
4N 1W
see 36
no gov lts

REPRODUCTION

FEB 13 1998

IDAHO

INTERIOR GEOLOGICAL SURVEY, WASHINGTON, D. C.—1955-NS
0.4 MI. TO U.S. 30
MERIDIAN 1 MI. R. 1 E.

ROAD CLASSIFICATION

Heavy-duty	4 LANE 16 LANE	Light-duty
Medium-duty	4 LANE 16 LANE	Unimproved dirt

U. S. Route State Route

STAR IDA

CITY OF MERIDIAN WATER SYSTEM EXISTING SERVICE AREA
(5-25-01)

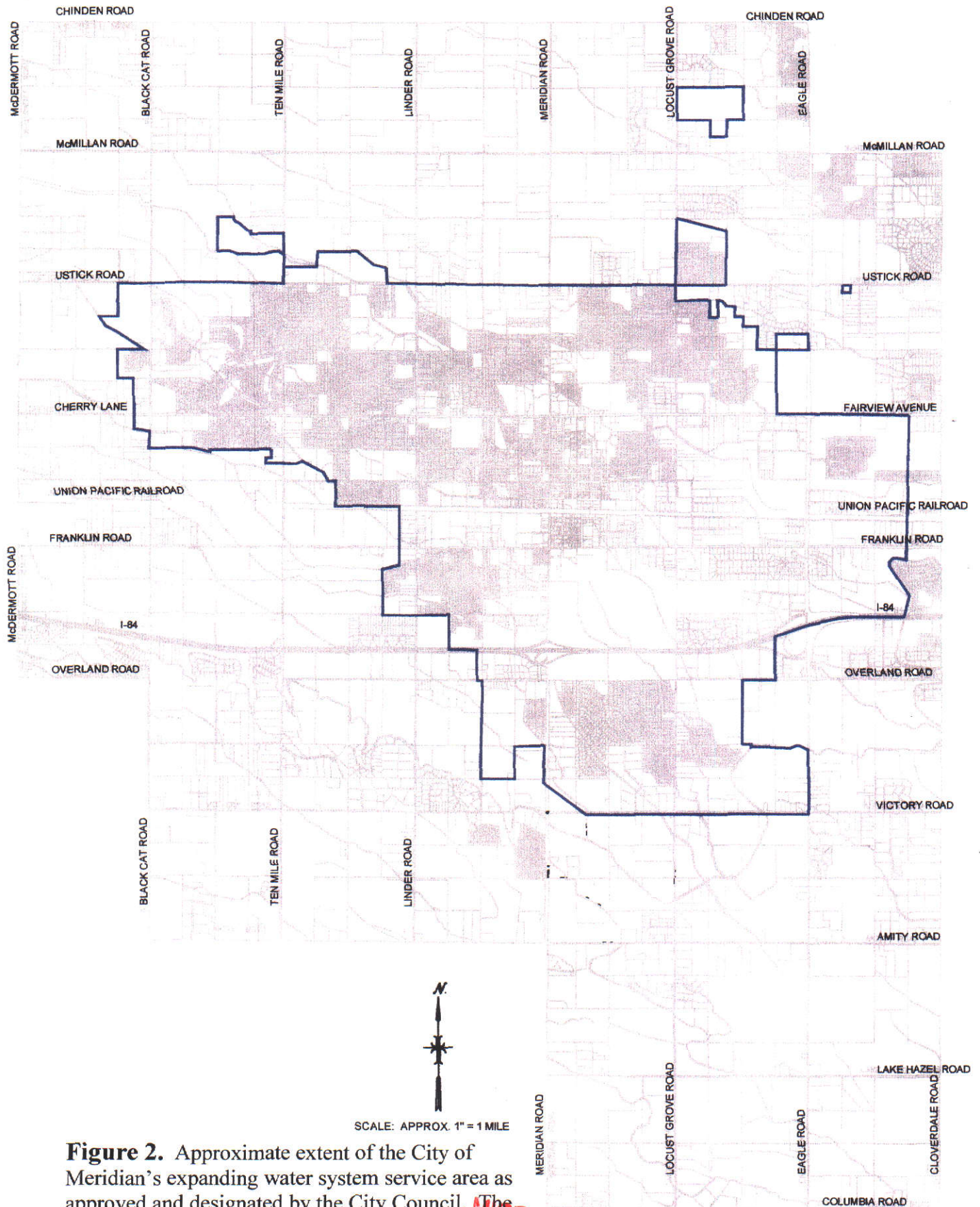
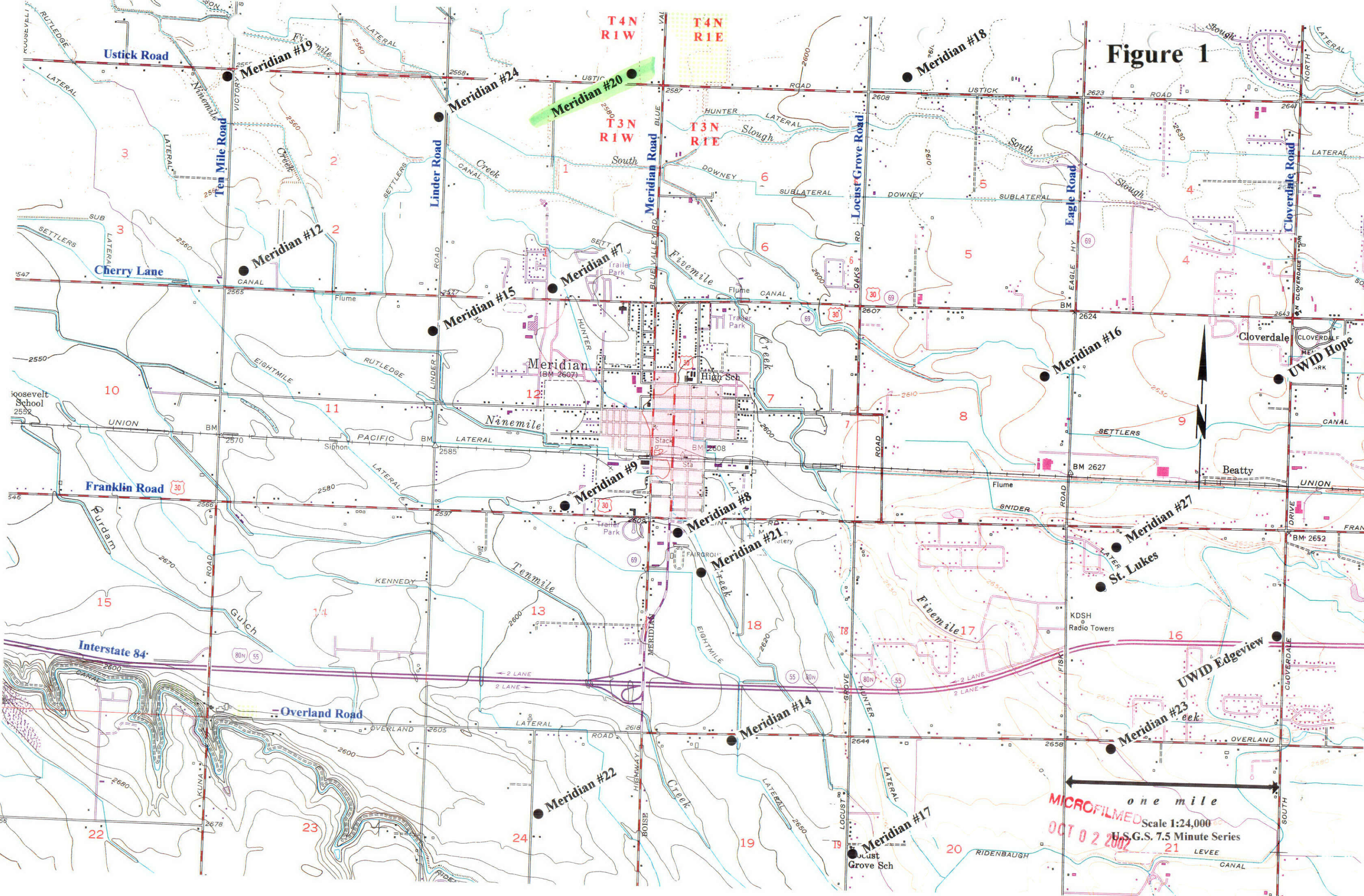


Figure 2. Approximate extent of the City of Meridian's expanding water system service area as approved and designated by the City Council. The area may extend beyond the City's formally designated limits and/or its area of impact.

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Figure 2.

Figure 1



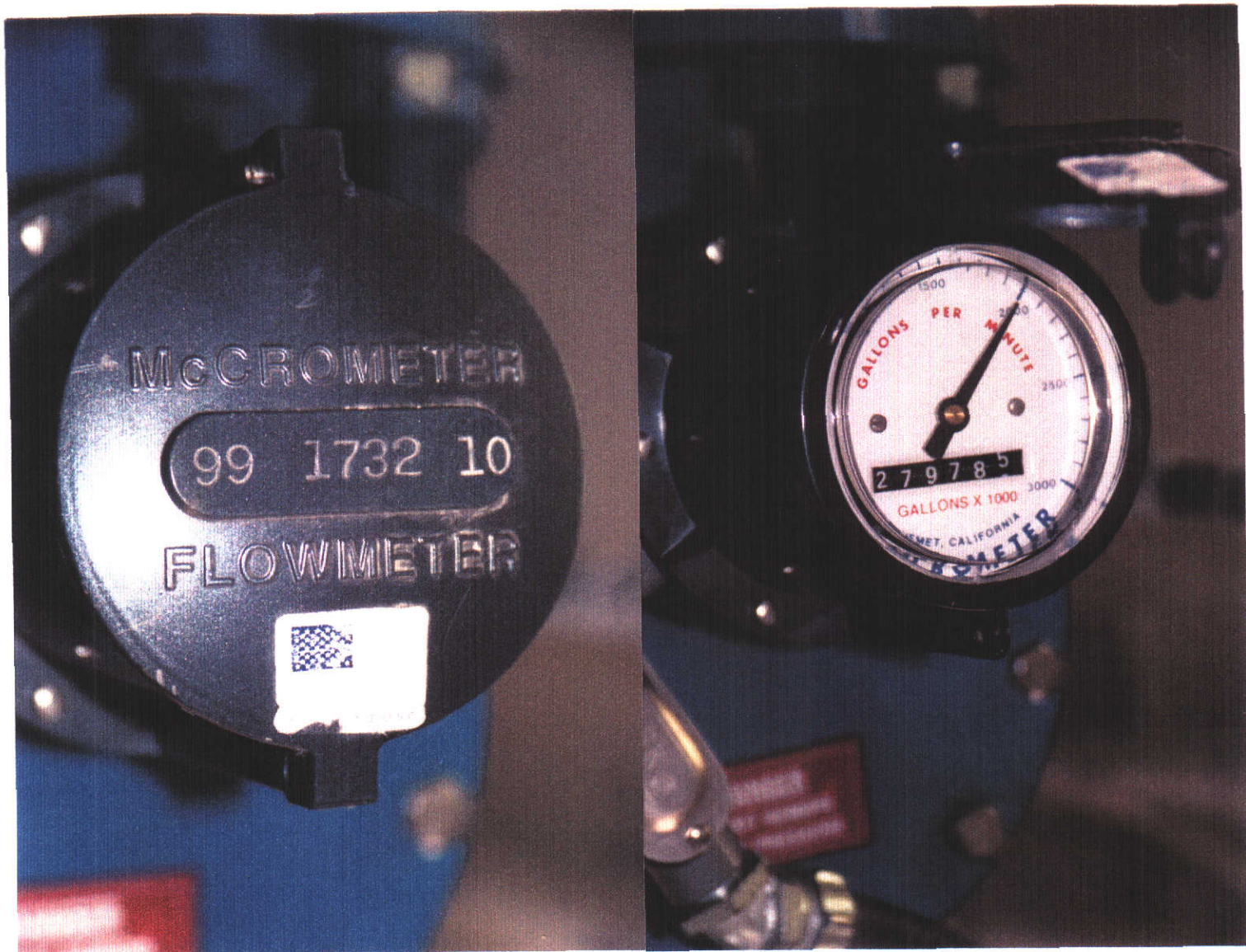


Figure 3. Photographs of the McCrometer brand impeller flow-meter installed in the 10-inch discharge piping of the City of Meridian's #20 municipal supply well during the July 16, 2001 Proof of Beneficial Use Field Licensing Examination. View on left is of the Model Number. Photo on right shows the instantaneous flow rate (2000 gpm) and totalized flow indicated by the instrument during the field inspection.

Figure 3.

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OCT 02 2002

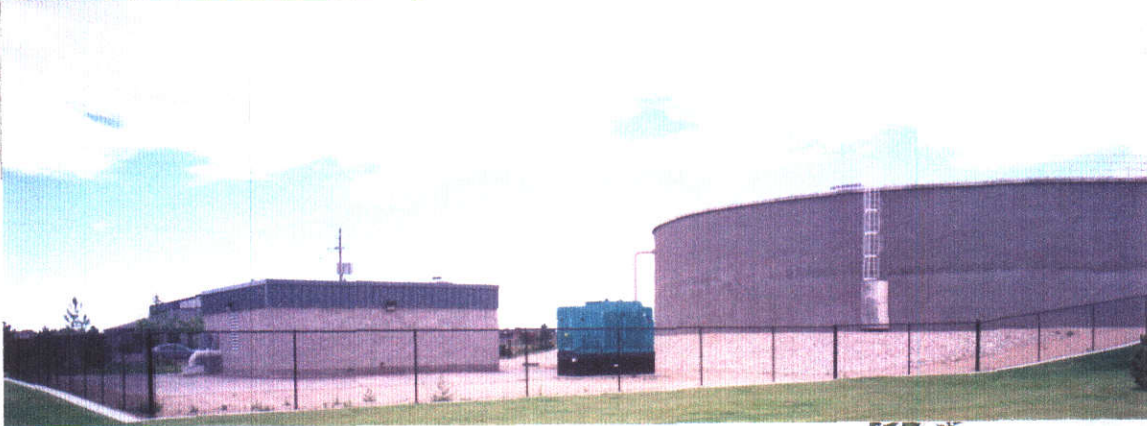


Figure 4. July 16, 2001 photographs of the City of Meridian's #20 municipal supply well pump house. Upper photo looks north from Ustick Road. Green emergency power generator on left behind pump house. Middle view looks east with 2 million gallon Ustick Reservoir in foreground. Lower shot is to the west.

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JUL 2 2002

Figure 4.

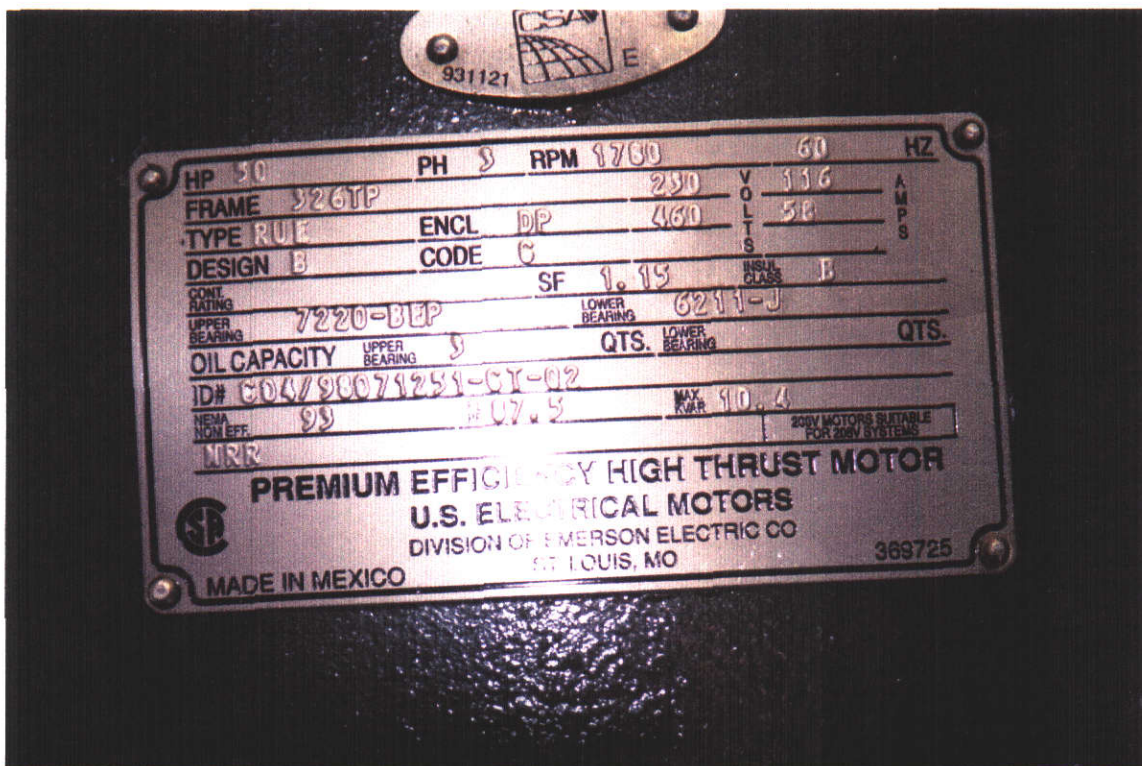


Figure 5. July 16, 2001 photographs of the City of Meridian's #20 municipal supply well's discharge head and motor housing showing the identification plates for the installed deep-well turbine pump and 50 HP drive motor.

Figure 5.

well 20 deep well
VI-59

up # P-1-1 : 50HP DEEPWELL Pump

1770 RPM

ENCLOSED TYPE IMPELLER

14DKH

NO. OF STAGES	EFF. CHANGE (NO. OF POINTS)
1	-3
2	-1
3	-0

HORSEPOWER WILL BE EFFECTED BY CHANGE IN EFFICIENCY

PERFORMANCE FOR:
Bowl Pattern No.: 542434-C-R7
Imp. Pattern No.: 542424-B-R2

PUMP DATA

Shaft Dia. (IN.)	1 15/16
Maximum Sphere (IN.)	1 1/4
Maximum Head (FT.)*	767
Min. Submergence (IN.)**	24
Impeller Wt. (LBS.)	26.9
Thrust Constant (K)	16.5
Bowl O.D. (IN.)	13 1/8

NOTES

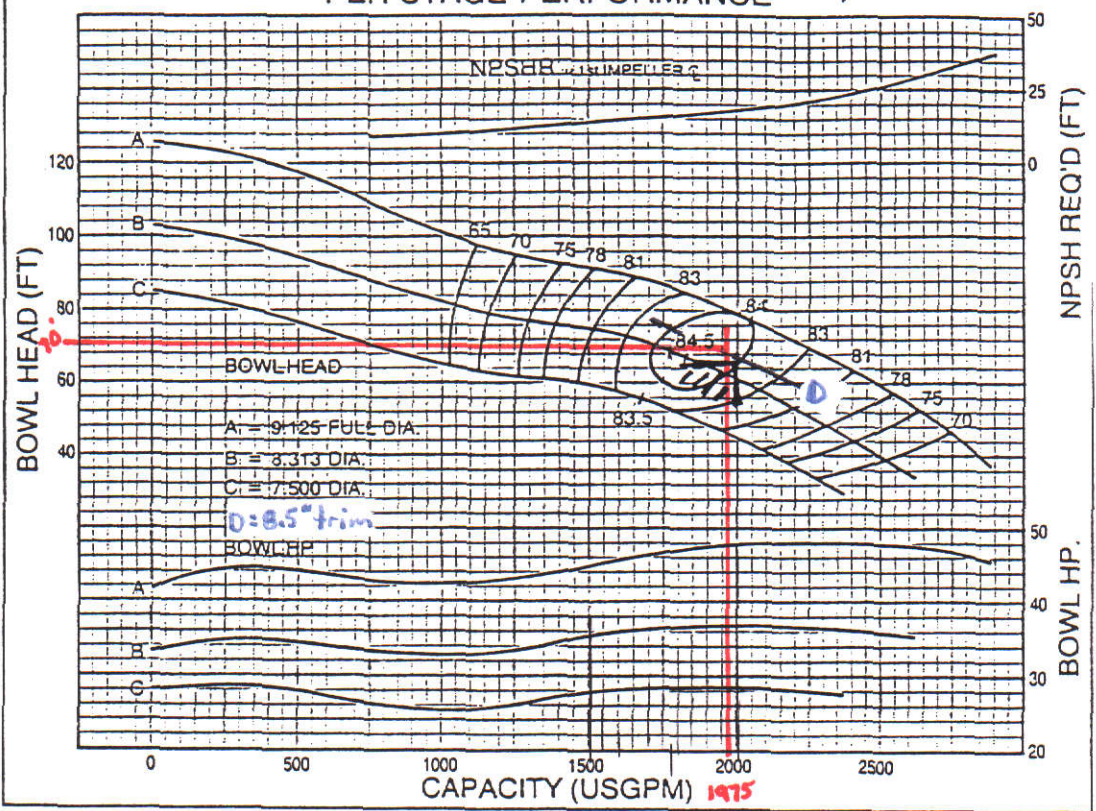
Performance indicated based on cold water with a specific gravity of 1.0.

* Standard construction.

** Minimum submergence over lip of bell to prevent vortexing.

Efficiency improvements are available in certain instances. Please contact the factory.

PER STAGE PERFORMANCE



1 STAGE 2000 GPM @ 65' TDH

14JKL
Contact Factory
For Performance

Figure 6.

MICROFILMED
OCT 02 2002

CAPACITY (USGPM)

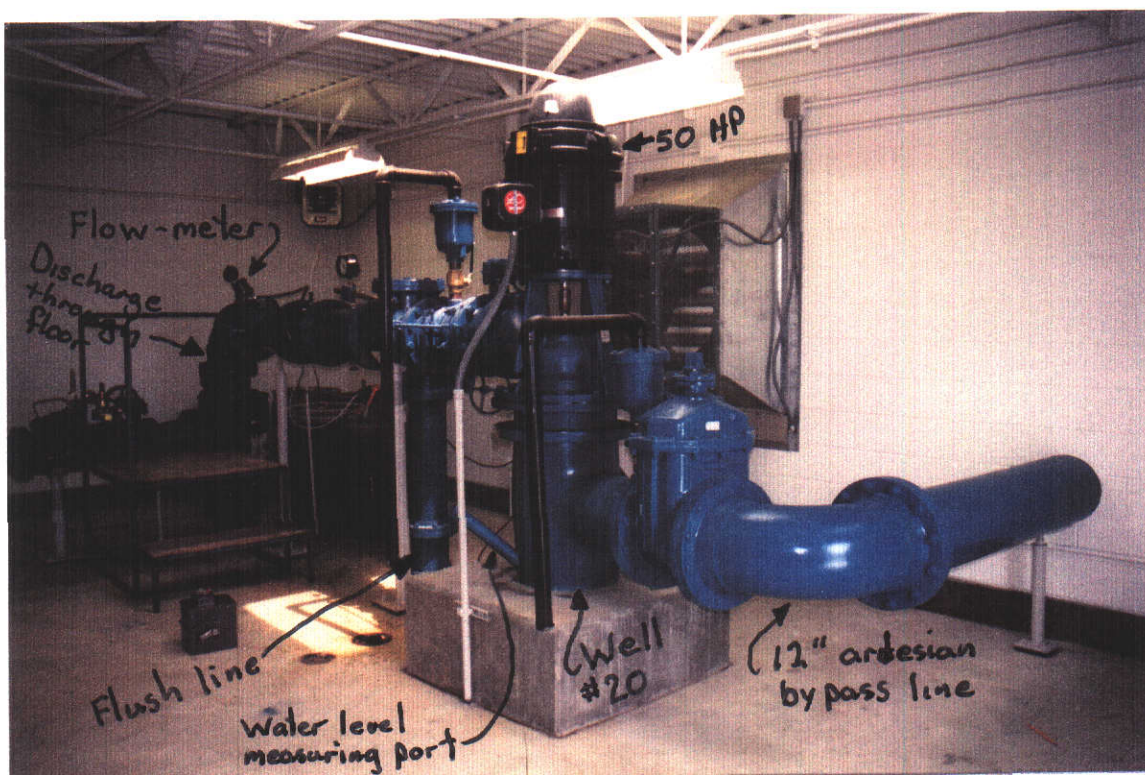
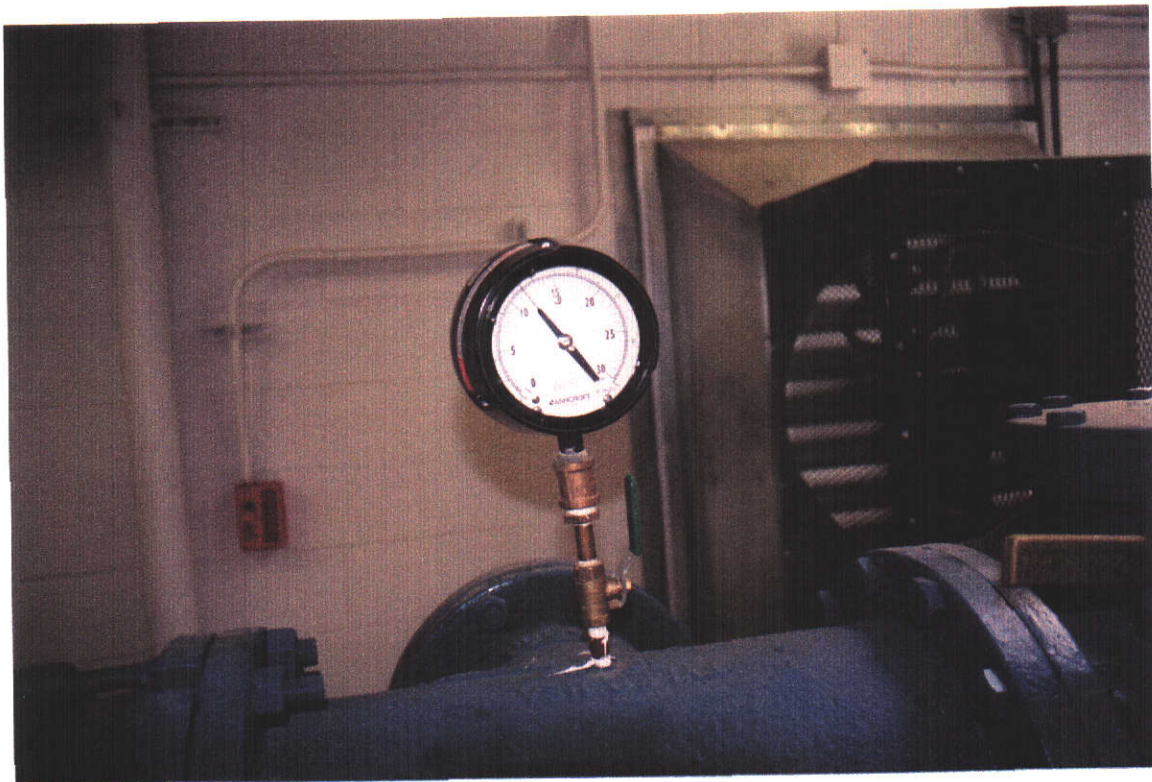


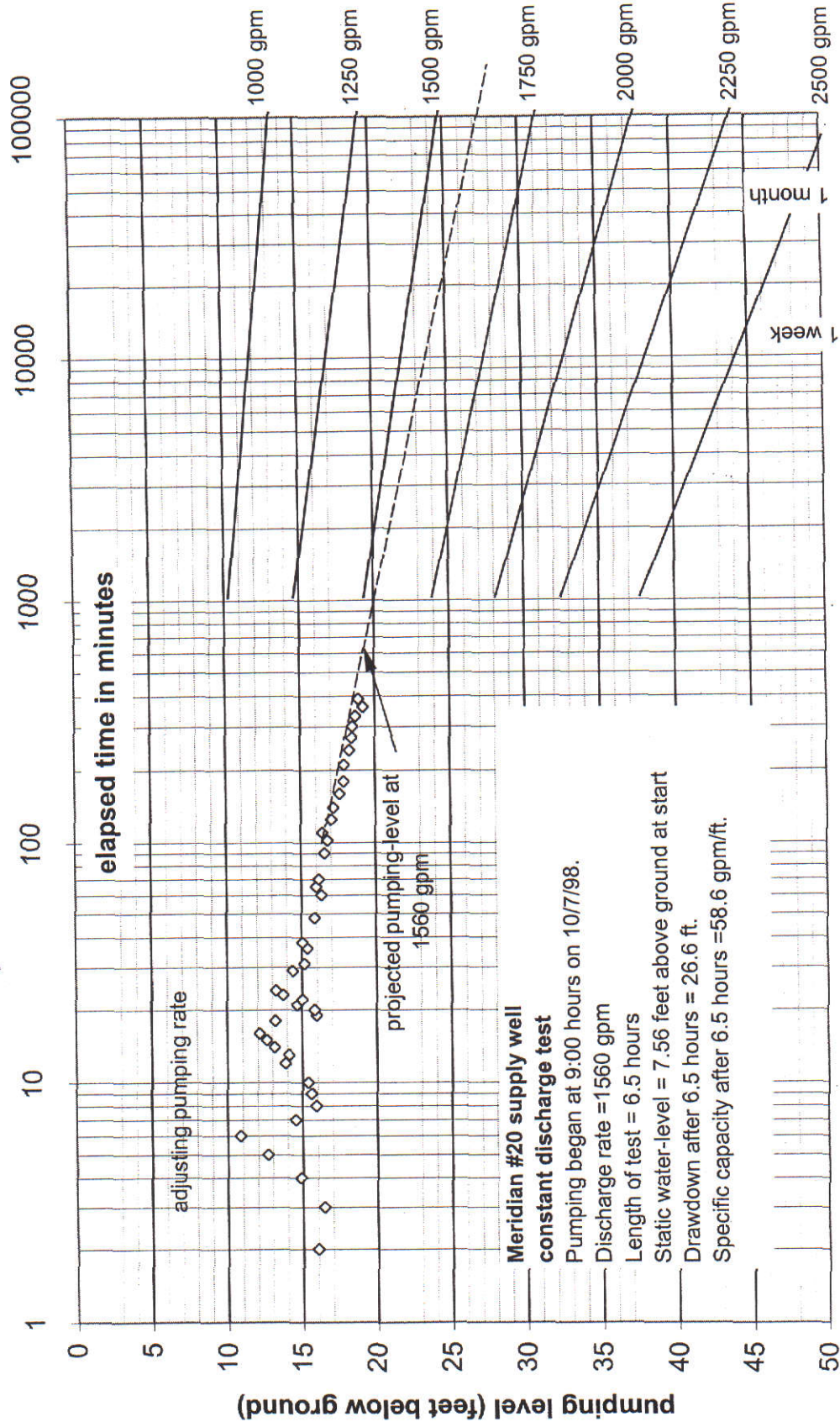
Figure 7. July 16, 2001 photographs of the City of Meridian's #20 municipal supply well's discharge piping and well head. The upper view is the in-line pressure gage reflecting the pressure head (12 psi) required to pump against the water-level in the City's 2 million gallon Ustick Reservoir to which the #20 well discharges. Lower photo shows the well head plumbing, including its 50 HP drive motor, and a 12-inch artesian by-pass line for the diversion of the well's above ground pressure head.

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OCT 2 2002

Figure 7.

Figure 8.

City of Meridian #20 Supply Well **Projected pumping water-levels for various discharge rates**

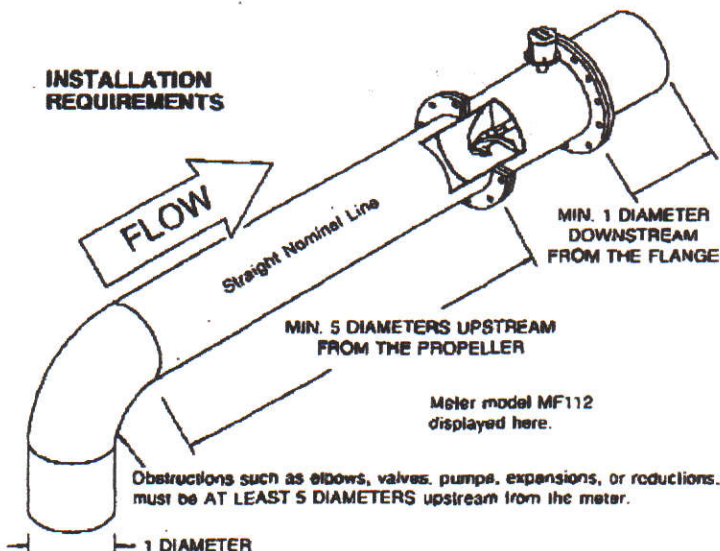


MICROFILMED
OCT 8 2 2002

INSTALLATION INSTRUCTIONS

Proper meter installation is the first step to insure meter performance. Follow these instructions closely. Consult an authorized service representative or the factory for any circumstances encountered not covered in these instructions.

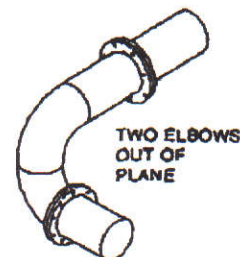
All McCrometer products are tested and inspected during manufacture and prior to shipping. An inspection should be performed at the time of unpacking to detect any damage that might have occurred during shipment.



EXAMPLE:

A 8 inch nominal size meter:
UPSTREAM: Requires $8'' \times 5 = 40''$
DOWNSTREAM: Requires $8'' \times 1 = 8''$

STRAIGHTENING VANES:
Vaness can be added to insure steadier flow through the meter. Option # 6.



McCrometer propeller meters should be installed a minimum of five diameters downstream of any obstructions. Flowmeters are velocity sensing devices and are vulnerable to certain upstream disturbances. Because of this, meters need certain lengths of straight pipe runs before and after the meter. These distances usually relate to the diameter of the pipe used. Obstructions can include elbows, valves, pumps and changes in pipe diameter. The uneven flow created by these obstructions can vary with each system. If your applications provides for more than five diameters of upstream run, use the available distance.

Downstream run should be one diameter of straight pipe length after the meter.

NOTE: Special attention should be given to systems using two elbows "out of plane" or devices such as a centrifugal sand separator. These cause swirling flow in the line that affect propeller meters. Well developed swirls can travel up to 100 diameters downstream if unobstructed. Since most installations have less than 100 diameters to work with, straightening vanes become necessary to alleviate the problem. Straightening vanes will break-up most swirls and ensure more accurate measurement. McCrometer's mainline meters like the MW500 series have vanes included as a standard feature. If your model does not have straightening vanes (e.g., MO300 Bolt-On Saddle series), McCrometer actively encourages you to include them in the pipe just ahead of the meter.

OTHER INSTALLATION CONSIDERATIONS

- All propeller flowmeters are calibrated for a full pipe-line. If the pipe isn't completely full, the flowmeter will over-register the flow. Although a minimum line pressure isn't necessary for an accurate measurement, a full pipe is!

- McCrometer flowmeters can be mounted either horizontally or vertically. Although most applications are horizontally oriented, mounting the meter vertically actually offers some slight advantages. One reason is that gravity has a more pronounced flow-conditioning effect with lines in the vertical (as opposed to horizontal) orientation. The intended configuration of the meter must be specified when ordering.
- With the meter installed, check the rate-of-flow indicator. It should be stable to the point that it can be easily read. Some movement is normal, but if the indicator is moving erratically back and forth, disturbances exist and meter accuracy decreases.

SAFETY

- Any person installing, inspecting or maintaining a McCrometer flowmeter should have a working understanding of piping configurations and systems under pressure.
- Before adjusting or removing any meter, be certain the system has depressurized completely. **NEVER ATTEMPT TO REMOVE A METER UNDER PRESSURE!**
- Be careful when lifting meters. Meters can cause serious injury if dropped or lifted incorrectly.
- Only necessary and appropriate tools should be used when working on a meter.
- Before starting a system, make sure all connections are properly secured. Keep a safe and prudent distance away from the meter during system start-up.

MICROFILMED

NOV 02 2002

Well 20' deep well

VERTICAL TURBINE PUMP

TYPE - AF

DRILLED FOR FLANGE
SEE ATTACHED DRAWING

25" DIA.

DISCHARGE

10" 125# ANSI-FF FLG.

12-1" DIA. HOLES *

14 1/4" DIA. BOLT CIRCLE

16" DIA. FLANGE

* BOLT HOLES STRADDLE VERTICAL C

MOTOR

PUMP

MAKE U.S. Motors

ENCLOSURE WP-1

TYPE VHS NRR YES

HP 50 RPM 1800

PHASE 3 HERTZ 60

VOLTAGE 460

FRAME NO. 326TP

TYPE COUPLING THREADED

10x16 1/2 AF C.I. DISCH HD.

1 1/2" LINE SHAFT 10" COL

— SHAFT TUBE

PROD. LUBE X OIL LUBE —

TYPE 14DKH STAGE 1

2000 GPM 65' TDH

IMPELLER 8 1/2"

STRAINER YES

WELL I.D. 18"

MATERIAL

COL PIPE STEEL

LINE SHAFT 416 S.S.

SHAFT TUBE —

BOWL SHAFT 416 SS

SHAFT SEAL —

BEARING RETAINER BRONZE

PUMP BOWL CAST IRON

IMPELLER BRONZE

BEARINGS (BOWL) BRONZE

BEARINGS (LINE SHAFT) RUBBER

STRAINER GALVANIZED

BOWL W/R —

IMPELLER W/R —

CUSTOMER USTICK RESERVOIR
50HP DEEPWELL Pump

FLUID WATER

SPEC. GRAVITY 1.0

VISCOSITY —

TEMPERATURE —

PH —

ORDER NO. —

SUPPLIER —

DWG. NO. —

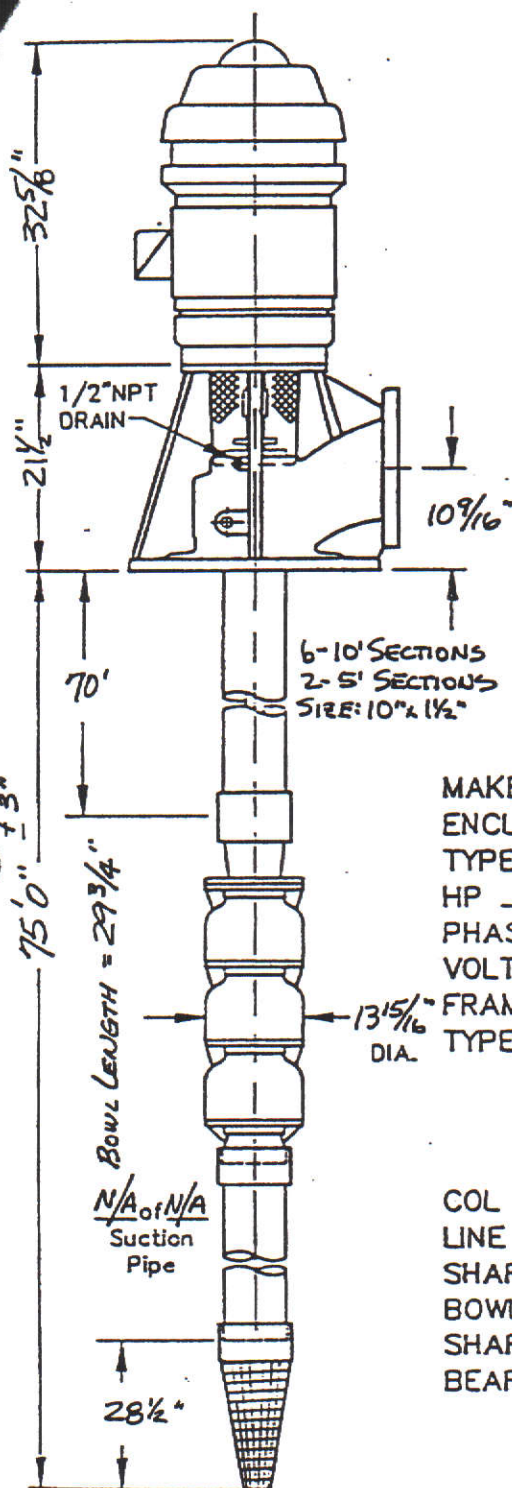
SERIAL NO. —

REMARKS
NO. UNITS REQ'D. 1

MICROFILMED

OCT 02 2002

NOT TO BE USED
FOR CONSTRUCTION



CALCULATIONS AND DESIGN DATA

PREPARED BY B. Canary

SUBJECT

Meridian # 20 Supply well - Beneficial use exam

DATE

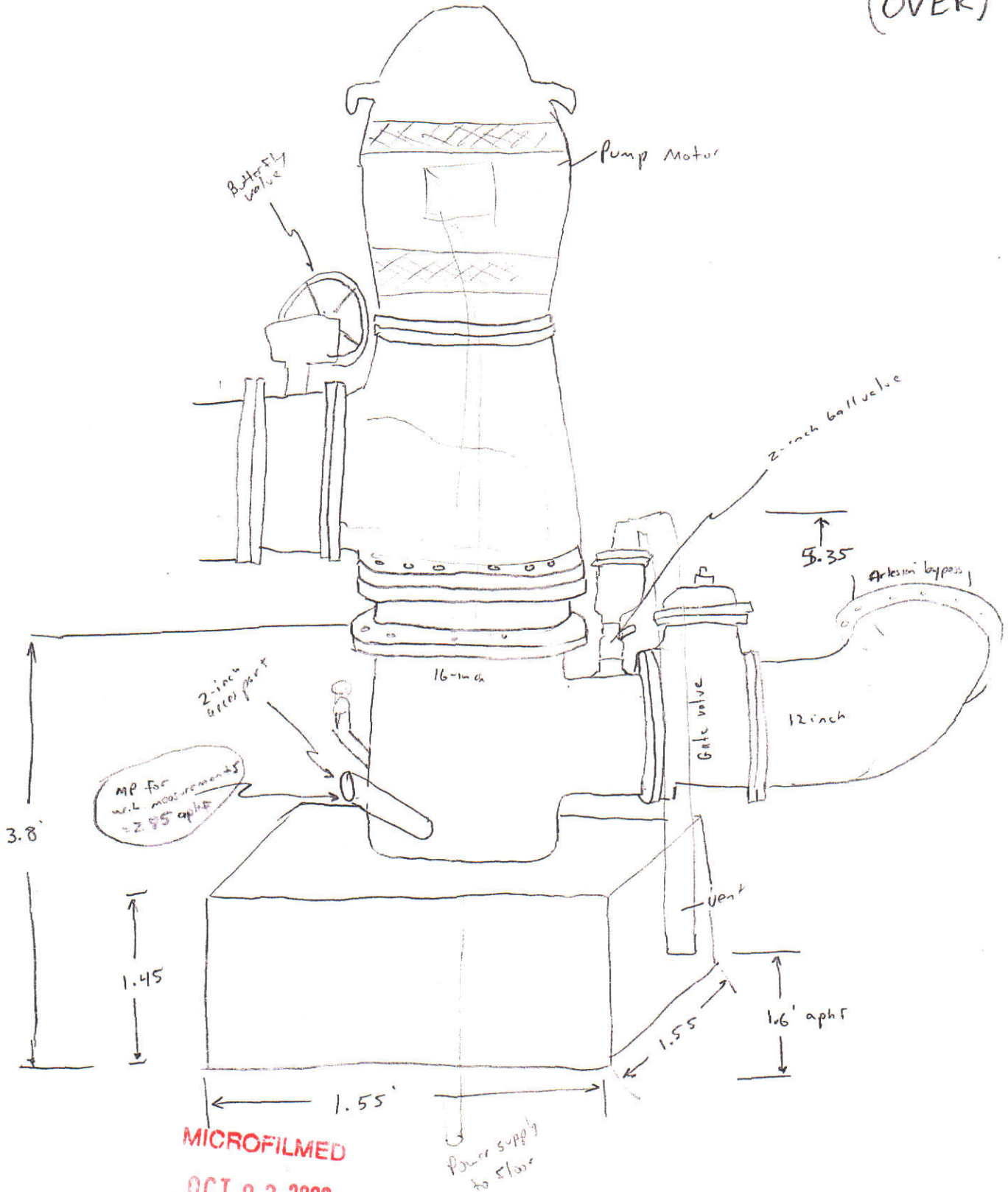
7-17-01

SHEET

OF

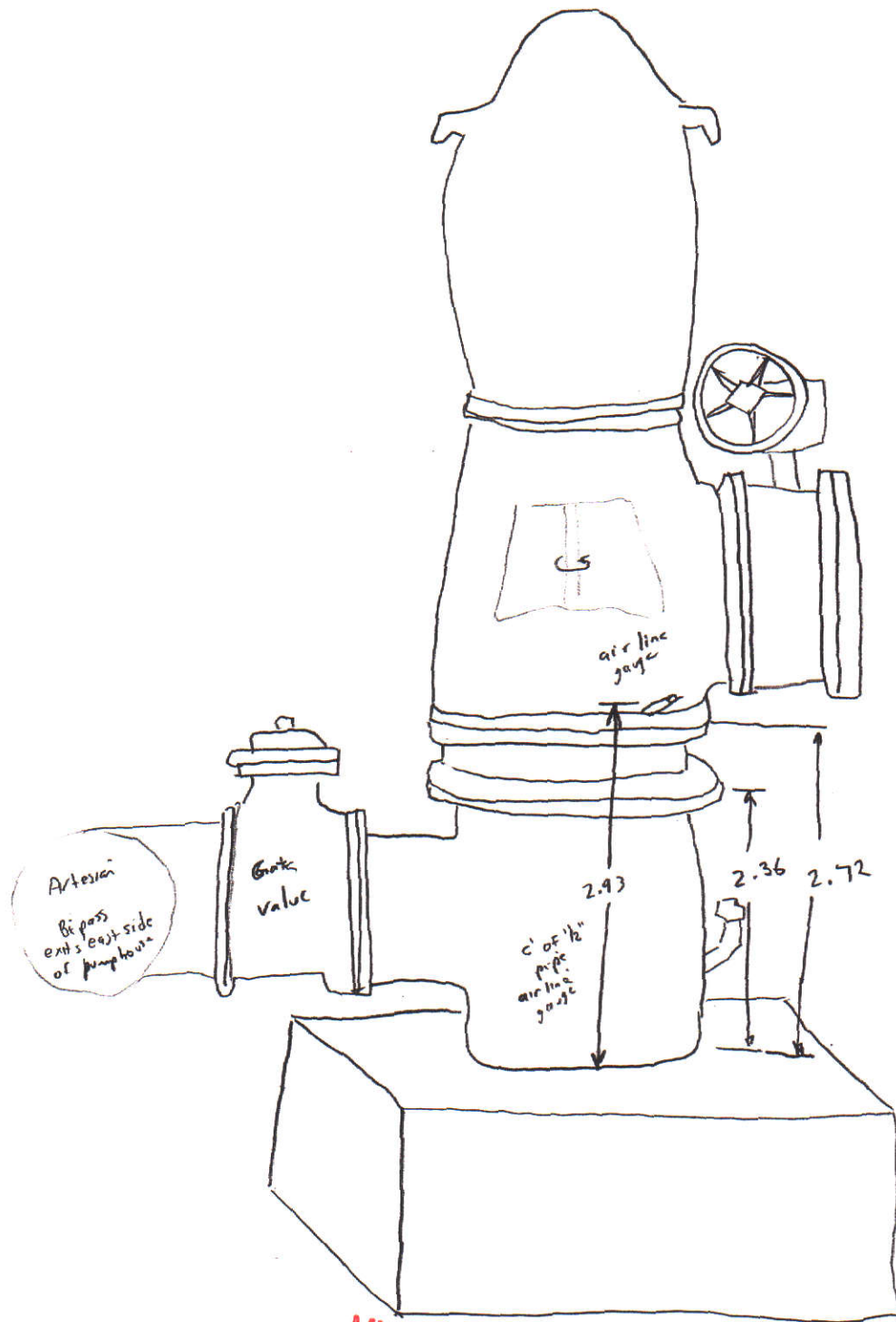
West Side of well head (view looking east)

(OVER)



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OCT 02 2002

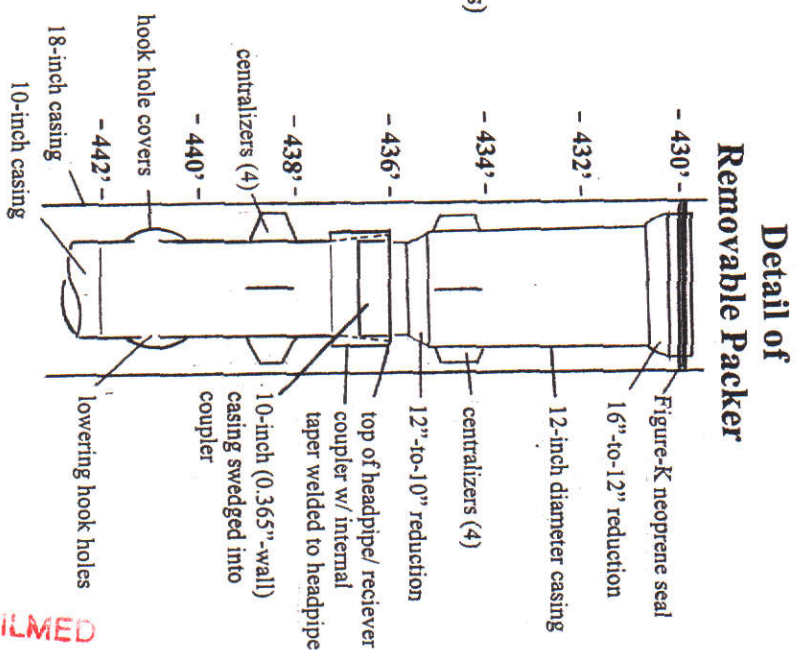
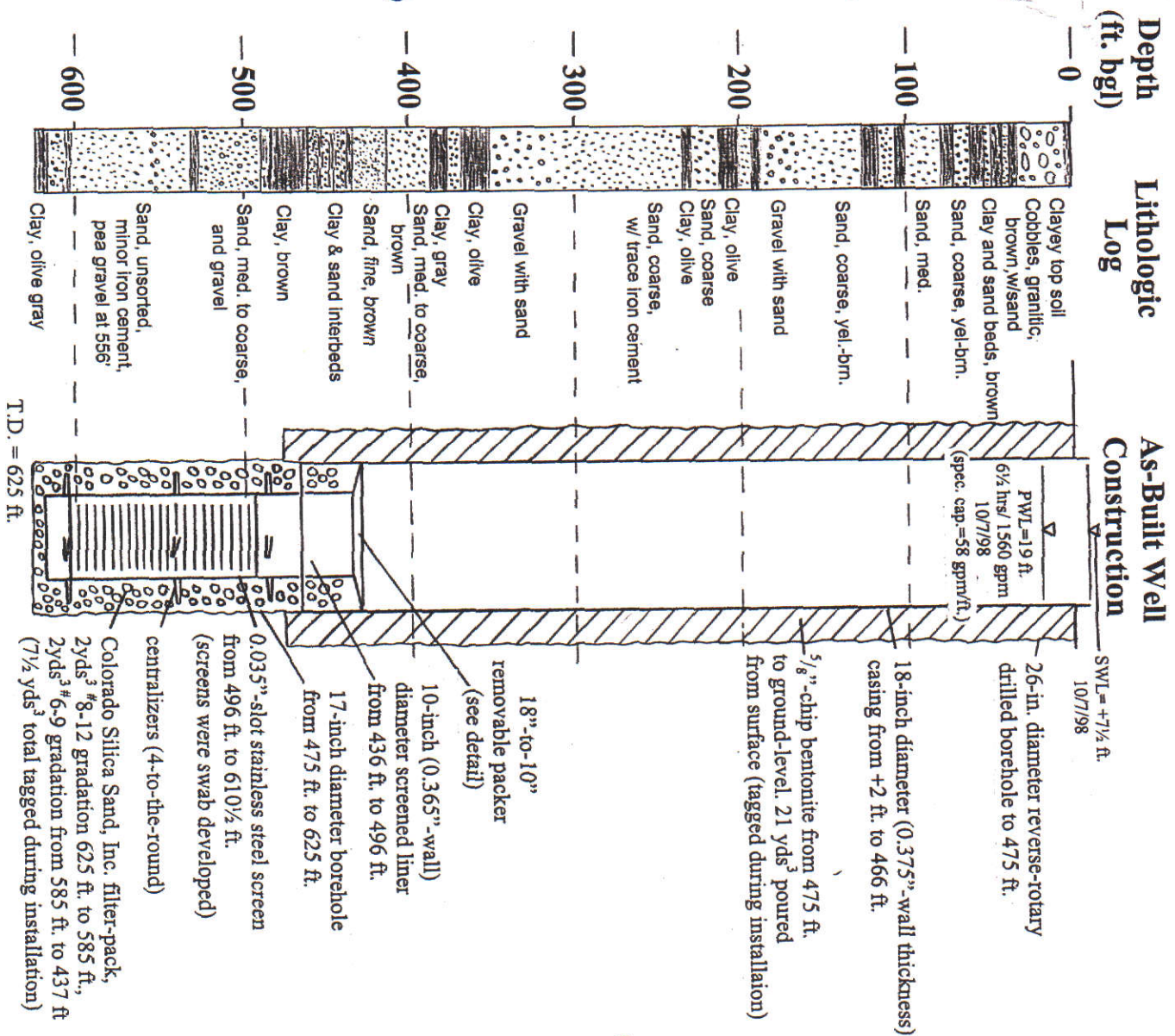
East Side



↑
1.35
top of horizontal
2-in. pipe
- 1 ball valve attachment

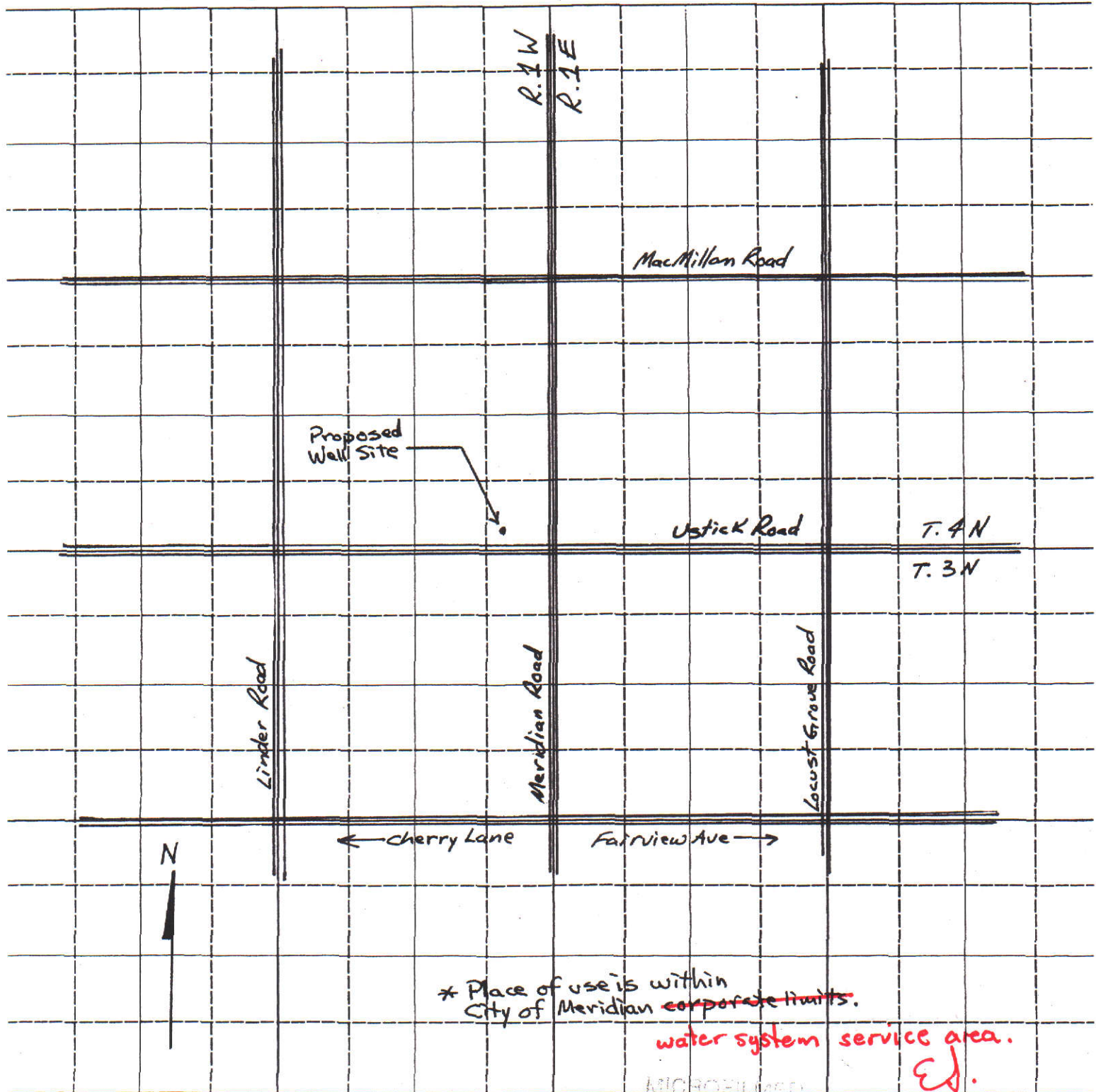
MICROFILMED
OCT 02 2002

Meridian #20 Supply Well SW 1/4, SE 1/4, SE 1/4, Sec. 36, T4N, R 1W



MICROFILMED
OCT 02 2002

13. 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.

FEB 13 1998

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.

MICROFILMED

OCT 02 2002

Robert D. Corrie
(Applicant)
Robert D. Corrie, Mayor

RECEIVED

AUG 14 2002

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

FOR OFFICE USE ONLY
Amt. Of Fee \$: _____
Receipt No. _____
Receipt By: _____
Date Received: _____

★ Please direct inquiries to Ed Squires at 342-8369.

PROOF OF BENEFICIAL USE

The Idaho Department of Water Resources considers this form a statement that the permit holder(s) has/have completed all development that will occur under this permit and that water has been applied according to the provisions of the permit for the beneficial use(s) described below. This form must be accompanied by a license examination fee, when necessary, or be accompanied by a completed field examination report prepared by a certified water right examiner.

1. Permit No. 63 - 12416 Telephone No. (208) 898-5500
2. Name(s) of Permit Holder(s): The City of Meridian, Idaho
3. Mailing Address: 33 East Idaho Street, Meridian, Idaho 83642
4. Source of Water: Groundwater (Well #20) If GROUNDWATER (well), Date Drilled: mo. 9 /yr. 1998
 - a. Well Driller: Riverside, Inc. Drilling Permit Number: 63 - 98- W - 0470 - 000 -
5. Use(s) (as authorized by the water right permit): ** Please refer to attached cover letter and field report*
Domestic (No. of households): _____ Stockwater (No. and type of stock): _____
Irrigation (no. of acres): _____ Other: Municipal
6. Total rate of diversion and / or volume for which proof is submitted: 4.5 cfs OR _____ acre feet
7. Measuring Device Requirement: (refer to the approval conditions on your permit and respond accordingly)
(This question is not optional. Please check either yes or no. Proofs returned not checked accordingly, will be considered incomplete)
Measuring Device: Is a measuring device required? Yes _____ or No X
Has the measuring device been installed? Yes _____ or No X
** a measuring port has been provided*
Flow Measurement Port: Is a flow measurement port required? Yes _____ or No X
Has the measurement port been installed? Yes X or No _____
8. Fee Enclosed: \$ N/A (See Fee Schedule on back of the instructions for the filing proof of beneficial use)
9. Person to contact to accompany the Department representative during field examination of the water system.
Name: Field examination conducted by Ed Squires, Hydro Logic, Inc. Telephone Number: 342-8369
Address: 988 S. Longmont Ave., Suite 200, Boise, ID 83706
10. The information given on this form is my true statement of the extent to which the above numbered permit has been developed and I relinquish any undeveloped portion of the permit to the State of Idaho.

Signature of permit holder:  Date: August 6, 2002

MICROFILMED

well #20
RECEIVED

JUN 16 1999

WATER RESOURCES
WESTERN REGION

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

REQUEST FOR EXTENSION OF TIME RECEIVED

TO PROVIDE ADDITIONAL TIME IN WHICH TO SUBMIT PROOF OF JUN 18 1999
BENEFICIAL USE FOR A WATER RIGHT PERMIT

The Idaho Department of Water Resources will consider this form as a request that the permit holder(s) be granted an additional period of time under the provisions of Section 42-204, Idaho Code in which to complete development of a water right.

Permit No. 63-12416

Name(s) of Permit Holder: City of Meridian

Mailing Address: 33 E. Idaho Ave., Meridian, ID 83642

Date Proof is Due: 12/1/99 Telephone No. (208) 887-2211

Describe what work has been completed toward the development of this water right:
(This must be filled out! If no work has been completed, show "none".)

The well has been drilled and test pumped. Pumping Facilities and associated 2 MG reservoir and booster pump station are currently under construction.

(to date)
Costing \$ \$850,000

The permit holder(s) has been unable to complete the remainder of the work for the following reasons:

The large scope of this project necessitates additional time for completion of construction, start up and testing of the reservoir and related facilities. Also, approximately two miles of water pipe line must be constructed to connect the well and reservoir to other, existing, portions of the distribution system. The pipe line project is expected to be complete in late 1999.

Permit holder(s) request an extension to December 1, 19 2004.

FEE: \$50.00

Gary D. Smith
(Signature)*

*If other than permit holder, Power of Attorney must be supplied.

ACTION OF THE DEPARTMENT OF WATER RESOURCES

IT IS HEREBY ORDERED that the above request for extension of time be APPROVED and the time within which to submit proof of beneficial use is extended to **December 1, 2003.**

Signed this 2nd day of November, 19 99

MICROFILMED

JUN 12 1999

J. Glen Saxton
Chief, Water Allocation Bureau

State of Idaho
Department of Water Resources
Permit To Appropriate Water
NO. 63-12416

Proposed Priority: September 10, 1997 Maximum Diversion Rate: 4.50 CFS

This is to certify, that CITY OF MERIDIAN
33 E IDAHO AVE
MERIDIAN ID 83642

has applied for a permit to appropriate water from: GROUNDWATER

and a permit is APPROVED for development of water as follows:

BENEFICIAL USE

PERIOD OF USE

RATE OF DIVERSION

MUNICIPAL

01/01 to 12/31

4.50 CFS

LOCATION OF POINT(S) OF DIVERSION:

SESE , Sec. 36, Township 04N, Range 01W
ADA County

PLACE OF USE: See Remarks

CONDITIONS OF APPROVAL AND REMARKS

1. Proof of construction of works and application of water to beneficial use shall be submitted on or before December 1, 1999.
2. Subject to all prior water rights.
3. Project construction shall commence within one year from the date of permit issuance and shall proceed diligently to completion unless it can be shown to the satisfaction of the Director of the Department of Water Resources that delays were due to circumstances over which permit holder had no control.
4. After specific notification by the department, the right holder shall install a suitable measuring device or shall enter into an agreement with the department to determine the amount of water diverted from power records and shall annually report the information to the department.
5. Right holder shall comply with the drilling permit requirements of Section 42-235, Idaho Code.
6. Construction of the well shall comply with Idaho well construction standards.
7. The issuance of this right does not grant any right-of-way or easement across the land of another.
8. The daily diversion volume for non-domestic uses under this municipal right shall not exceed 2,500 gallons per use and the daily diversion volume for domestic uses under this right shall not exceed 13,000 gallons per dwelling in accordance with Section 42-111, Idaho Code.
9. Irrigation of large projects such as parks, golf courses, or sports activities fields is not authorized under this right.

MICROFILMED

FEB 13 1998

State of Idaho
Department of Water Resources**Permit To Appropriate Water**

NO. 63-12416

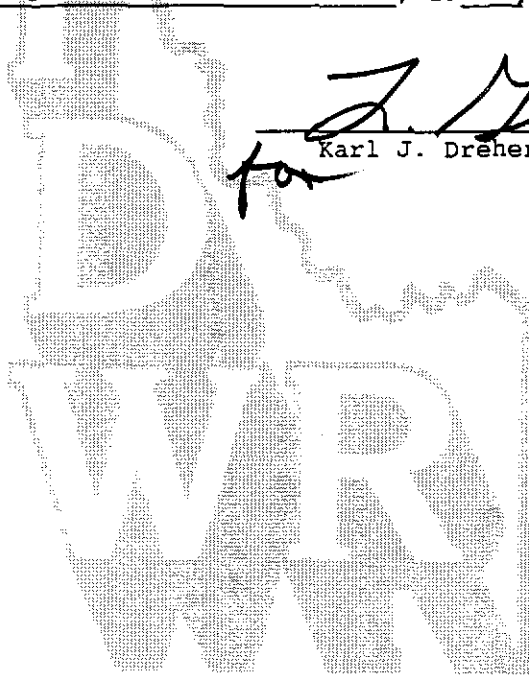
CONDITIONS OF APPROVAL AND REMARKS

10. The irrigation occurring under this municipal use shall not exceed 1/2 acre within each platted subdivision lot upon which a home has been constructed. This right does not provide for irrigation of common areas or for irrigation of lots upon which homes have not been constructed.
11. Place of use located within the city limits of Meridian.
12. Water bearing zone to be appropriated is 650 to 730 feet.

This permit is issued pursuant to the provisions of Section 42-204, Idaho Code.
Witness the signature of the Director, affixed at Boise, this

17th day of December, 1997

Karl J. Dreher
for Karl J. Dreher, Director



MICROFILMED

FEB 13 1998

RECEIVED

SEP 10 1997

Form 202
10/92WATER RESOURCES
WESTERN REGION

STATE OF IDAHO

Ident. No. 63-12416

DEPARTMENT OF WATER RESOURCES

RECEIVED

APPLICATION FOR PERMIT

DEC 03 1997

To appropriate the public waters of the State of Idaho

DEPARTMENT OF WATER RESOURCES

1. Name of applicant City of Meridian Phone (208) 887-2211Post office address 33 E. Idaho Ave., Meridian, Idaho 836422. Source of water supply Groundwater which is a tributary of N/A3. Location of point of diversion is SW $\frac{1}{4}$ of SE $\frac{1}{4}$ of SE $\frac{1}{4}$, Govt. Lot _____
Sec. 36 Township 04 North Range 01 West B.M. Ada County; additional
points of diversion if any: N/A

4. Water will be used for the following purposes:

Amount 4.50 for Municipal purposes from 1/1 to 12/31 (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)5. Total quantity to be appropriated is (a) 4.5 and/or (b) _____
cubic feet per second acre feet per annum

6. Proposed diverting works:

a. Description of ditches, flumes, pumps, headgates, etc. 2000 gallons per minute - 125 HP Turbine
Pumpb. Height of storage dam N/A feet; active reservoir capacity _____ acre-feet; total
reservoir capacity _____ acre-feet; period of year when water will be diverted to storage:
_____ to _____ inclusive.c. Proposed well diameter is 18 inches; proposed depth of well is 750 feet.d. Is ground water with a temperature of greater than 85°F being sought? NOe. If well is already drilled, when? N/A; Drilling firm _____;Well was drilled for (well owner) N/A7. Time required for the completion of the works and application of the water to be proposed beneficial use is
Two (2) years (minimum 1 year).

FEB 13 1998

8. Description of proposed uses (if irrigation only, go to item 9):

- a. Hydropower; show total feet of head and proposed capacity in KW. N/A
N/A
- b. Stockwatering; list number and kind of livestock. _____
- c. Municipal; show name of municipality. City Of Meridian
- d. Domestic; show number of households. 8819 residential accounts (1-31-97)
- e. Other; describe fully. 403 commercial accounts (1-31-97)

9. Description of place of use: SEE REMARKS BELOW

- a. If water is for irrigation, indicate acreage in each subdivision in the tabulation below.
- b. If water is used for other purposes, place a symbol of the use (example: *D* for Domestic) in the corresponding place of use below. See instructions for standard symbols.

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 _____

10. Describe any other water rights used for the same purposes as described above. 62-02893; 63-07978; 63-12378
63-09849; 63-08331; 63-08332; 63-10840; 63-11737; 63-11922; 63-12181; 63-12295

11. a. Who owns the property at the point of diversion? City of Meridian
- b. Who owns the land to be irrigated or place of use? Property Owners within the City of Meridian
- c. If the property is owned by a person other than the applicant, describe the arrangement enabling the applicant to make this filing. _____

Comments

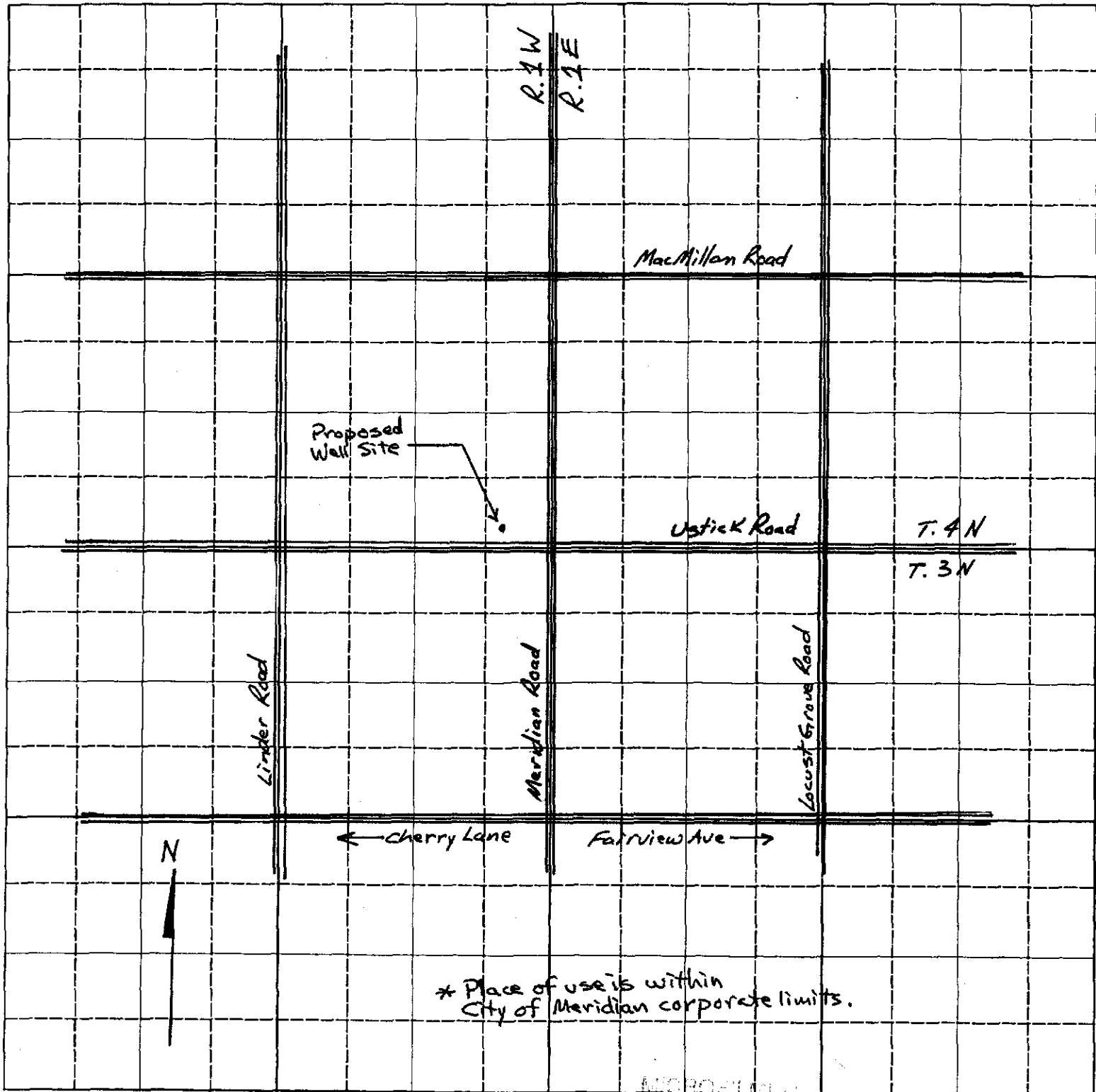
12. Remarks: Place of use is located within the City Limits of Meridian

(Water bearing zone to be appropriated for
Municipal use is 650-730 feet.

*
Remarks

* per Brad Watson, City of Meridian Public Worker. 9/17/97
6

13. 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.

Robert D. Corrie
(Applicant)
Robert D. Corrie, Mayor

Received by DB Date 10-9-97 Time 10:50am Preliminary check by G
Fee \$ 180- Receipted by DB # W023049 Date 9-10-97
Publication prepared by AT Date 10-8-97 Published in Statesman
Publication approved AT Date 11-13-97 10-16 + 23-97

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.

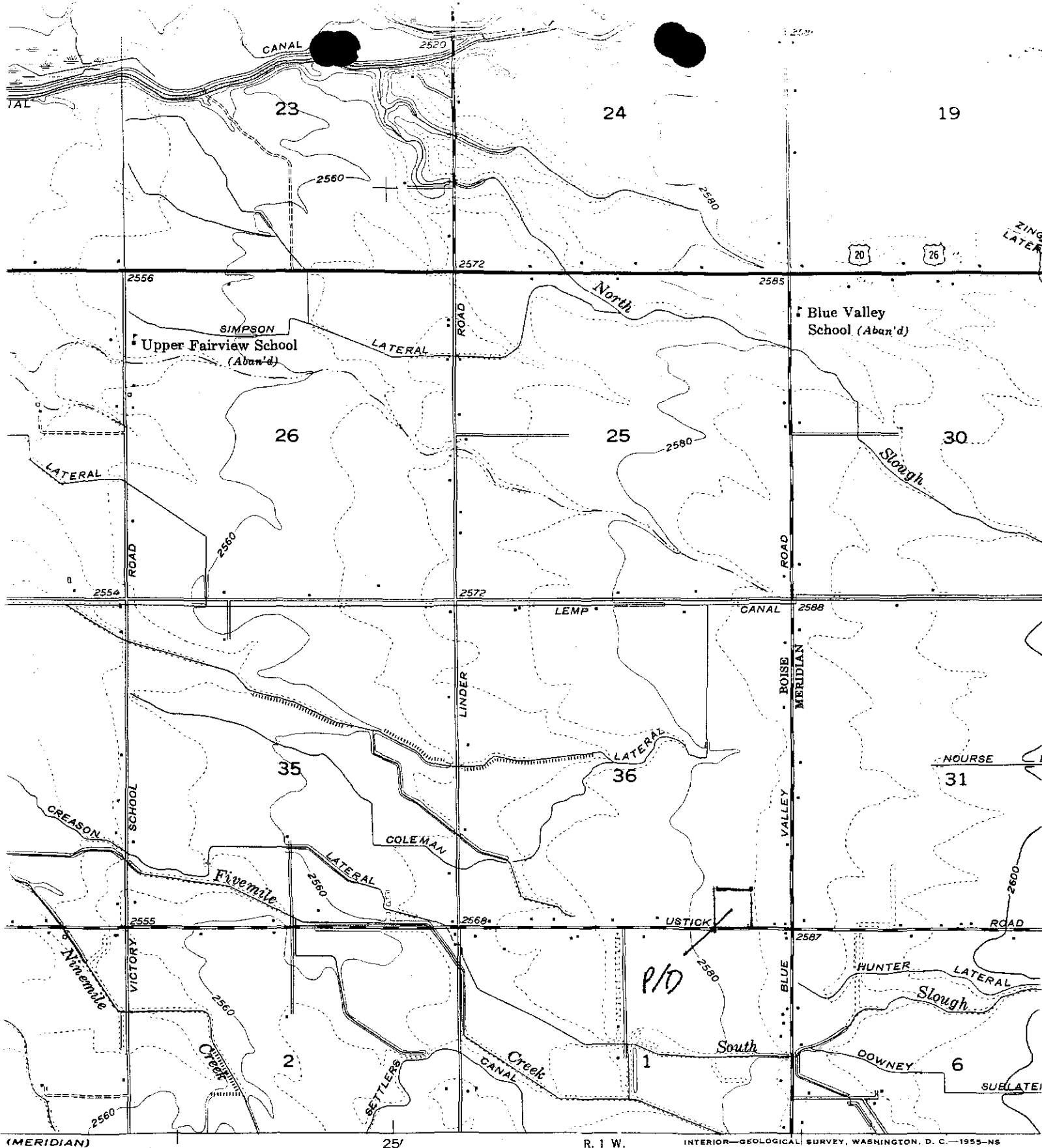
b. Proof of construction of works and application of water to beneficial use shall be submitted on or before _____, 19 ____.

c. The rate of diversion, if water is to be used for irrigation under this permit, when combined with all other water rights for the same land shall not exceed 0.02 cubic feet per second for each acre of land.

d. The water right acquired under this permit if for hydropower purposes shall be junior and subordinate to all rights to the use of water, other than hydropower, within the State of Idaho that are initiated later in time than the priority of this permit and shall not give rise to any right or claim against any future rights to the use of water, other than hydropower, within the State of Idaho initiated later in time than the priority of this permit.

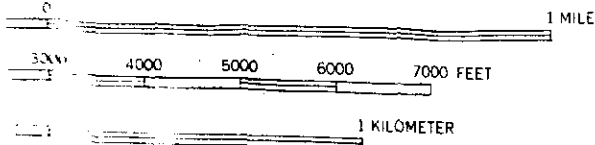
e. Other:

HYDROFILM
FEB 13 1998



(MERIDIAN)

SCALE 1:24000



10' INTERVAL 20 FEET
REPRESENT 5 FOOT CONTOURS
IS MEAN SEA LEVEL

R. 1 W.

INTERIOR-GEOLOGICAL SURVEY, WASHINGTON, D. C.—1955-NS
0.4 MI. TO U.S. 30
MERIDIAN 1 MI. R. 1 E.

SWSESE
4N 1W
see 36

no
gov'ts

ROAD CLASSIFICATION

Heavy-duty 4 LANE 16 LANE Light-duty
Medium-duty 4 LANE 16 LANE Unimproved dirt

U. S. Route

State Route

FEB 13 1956

IDAHO



State of Idaho

DEPARTMENT OF WATER RESOURCES

1301 North Orchard Street, Boise, ID 83706 - P.O. Box 83720, Boise, ID 83720-0098
Phone: (208) 327-7900 Fax: (208) 327-7866 Web Site: www.idwr.state.id.us

DIRK KEMPTHORNE
Governor

KARL J. DREHER
Director

August 22, 2002

THE CITY OF MERIDIAN IDAHO
33 EAST IDAHO ST
MERIDIAN ID 83642

PROOF ACKNOWLEDGMENT LETTER

RE: PERMIT NO. 63-12416

Dear Permit Holder:

The department acknowledges receipt of the proof of beneficial use form submitted for the above referenced permit. The field examination report is presently on file with the department, therefore, the next step in the process is for the department to review the file for issuance of a water right license.

Be advised that Section 42-248, Idaho Code, requires you or the owner of these water rights to maintain current ownership and address records on file with the department. Forms to file a change of ownership of a water right and/or a change in the address of the water right owner are available from any department office.

Sincerely,

Deborah J. Gibson
Administrative Assistant
Water Allocation Bureau

Encl.

c: IDWR - Regional Office

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AUG 22 2002

ANALYSIS SHEET FOR PROOF OF BENEFICIAL USE

Permit No.: 63-12416

Reviewed By: dgibson

Date: August 21, 2002

	<u>Yes</u>	<u>No</u>		<u>Yes</u>	<u>No</u>
Proof received timely?	X		Drilling permit required?	X	
License examination fee required?		X	Drilling permit No.:	63-98-W-0470-000	
Appropriate fee submitted?			Drilling permit upgrade needed?		
Receipt No.:		N/A	Well driller's report filed?		
Additional Amount Due:			Measuring device required?		X
Name and address same as permit?	X		Measuring device installed?	X	
Are the water uses correct?	X		Measure device waiver requested?		

Priority Calculation

Date proof received		08/14/2002
Date proof due	-	12/01/2003
Lapse notice sent	-	
No. of days late	=	0
Holiday allowance	+	
Priority date	+	09/10/1997
New priority date	=	09/10/1997

Deficiencies of Actions Items

BU Field Report submitted. Acknowledge proof with exam text.

Hydro Logic, Inc.

Jeff Peppersack

988 S. Longmont, Ave, Suite 200, Boise, ID 83706 (208) 342-8369, (Fax) 342-3100, hydrologic@qwest.net

August 6, 2002

Mr. Norman C. Young
Administrator
Idaho Department of Water Resources
1301 North Orchard Street
Boise, Idaho 83720

RECEIVED

AUG 13 2002

Department of Water Resources

Dear Norm:

Under this cover, I submit the Beneficial Use Field Report for Permit No. 63-12416 on behalf of the City of Meridian, Idaho (City or Meridian). This submittal constitutes the first of several licensing examinations I have conducted for the City and for which I will be forwarding my recommendations for licensing in the coming weeks. Several of these permits were issued, under the Snake River Basin Moratorium imposed 5/15/1992, as "domestic" rights (I.C. § 42-111). As such, they carry conditions which no longer apply to these municipal rights and which have not been imposed on the Meridian's more recently permitted water rights. Specifically, the City requests that Conditions Nos. 8, 9, and 10 of the approved Permit No. 63-12416 be removed in the licensing process.

Additionally, it is recommended that Condition No. 11 be re-worded to correctly reference the Place of Use as "the water system service area of the City of Meridian".

With respect to Administrative Memorandums "Drilling Permit No. 2/ Permit No. 12" dated December 19, 1988, "Permit No. 14" dated February 2, 1989, and I.C. § 42-235, I have reviewed the approved drilling permit No. 63-98-W-0470-000 and found its conditions of approval to be in accord with water right permit No. 63-12416. The final as-built details of well construction (Appendix D of the attached field examination) do not precisely agree with Condition No. 12 of Permit No. 63-12416 with respect to the water bearing zone to be appropriated. On the original Application for Permit, a water-bearing zone of 650-to-730 feet below land surface was specified based upon an exploratory test-well drilled at the site. The final construction of the City's #20 supply well resulted in a completion zone of 496-610 feet. To accurately depict the actual aquifer zone appropriated and to ensure for the future potential to deepen the existing well to an aquifer of known good-quality ground water or to replace the well on the same lot, it is requested that the water-bearing zone to be listed as 496-to-996 feet below land surface.

The changes requested above, because they are considered minor with respect to Administrator's Memorandum "Permit Processing No. 5" dated 4/28/1982, are corrected and initialed on the attached copy of the original application (Appendix D).

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The Applicant seeks a "municipal" use under the Municipal Water Right Act of 1996, I.C. §§ 42-202, 42-202B, 42-217, 42-219, and 42-222. The full instantaneous flow-rate of the subject well is presently used to supply current water supply needs. Therefore, the City of Meridian does not assert any claim for "reasonably anticipated future needs" in accord with I.C. § 42-202(2).

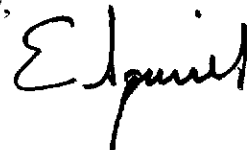
This submittal contains the following components:

- 1) Proof of Beneficial Use form for 63-12416 signed by the Applicant.
- 2) Beneficial Use Field Report for 63-12416.
- 3) USGS Topographic Series map showing point of diversion (well) location.
- 4) Figure 2 showing the City of Meridian's water supply service area.
- 5) Figures 3-8 showing pump houses and well head plumbing, and pump data.
- 5) Appendix A. McCrometer flow-meter manufacturer's installation guide.
- 6) Appendices B -D. Pump installation data, field exam sketches, corrected water right application, as-built well construction information, and miscellaneous documents and figures relevant to the licensing of the City of Meridian's water right No. 63-12416.

Please call with any questions that you, or your staff, may have concerning this submittal to me directly at (208) 342-8369. Thank-you.

Respectfully,

Ed Squires



c: Gary Smith, City of Meridian

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APR 21 2 2000

RECEIVED

AUG 13 2002

DEPARTMENT OF WATER RESOURCES

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

★ Please direct inquiries to Ed Squires at 342-8369.

A. GENERAL INFORMATION

Permit No. 63-12416

1. Owner: City of Meridian, Idaho Phone No. (208) 898-5500

Current Address: 33 East Idaho, Meridian, Idaho 83642

2. Accompanied by: Mr. Chip Hudson EXAM DATE: April 12, 2001

Address: Meridian Water Department - 2235 N.W. 8th Street, Meridian, Idaho 83642 Phone No. (208) 888-5242

Relationship to Permit Holder: Assistant Superintendent - Meridian Water Department

3. Source: Groundwater - City Supply Well #20 tributary to N/A

B. OVERLAP REVIEW

1. Other water rights with the same place of use: The City of Meridian's integrated portfolio of municipal water rights

2. Other water rights with the same point of diversion: _____

C. DIVERSION AND DELIVERY SYSTEM

1. Point(s) of Diversion:

Ident No.	Govt. Lot	¼	¼	¼	Sec.	Twp.	Rge.	County	Method of Determination/Remarks
Well #20		SW	SE	SE	36	4N	1W	Ada	Site visit and USGS 7 ½ -minute Topographic Series maps

2. Place(s) of Use: City of Meridian's Service Area Indicate Method of Determination **As approved by the Meridian City Council**

TWP	RGE	SEC	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	

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

See attached sheets, appendices, and figures:

XX Copy of USGS Quadrangle Attached showing location(s) of point(s) of diversion and place(s) of use (Figures 1 & 2).

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

XX Photos of Diversion and System Attached

4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
City Well #20	U.S. Electrical Motors - HT	50	C04/88071251-GT-02	FloWay 14DKH	SN = 9-0035 10-inch discharge

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

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calibration Date
McCrometer	Propeller	OT110	MW-510	99-1732-10	10-inch	3/3/1999

2. **Measurements:** Discharge measurements for this examination were made using the impeller flow-meter listed above (Figure 3). The minimum piping installation recommendations of the manufacturer (Appendix A) were not precisely met because a 50-inch length of straight-run pipe, without obstructions, was not available upstream of the meter. The Model MW-510 meter does, however have integral straightening vanes which greatly compensate for the irregularities (an upstream Tee within 5 pipe diameters). A call to the Engineering Department of McCrometer determined that if turbulent flow (which could cause meter inaccuracy) was present within the flow stream, then the instantaneous flow rate needle would fluctuate erratically. This was not observed to be the case, therefore, it is generally believed likely that the flow-meter was reading correctly (Figure 3).

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E. NARRATIVE/REMARKS/COMMENTS

The field examination for this permit was carried out on July 16, 2001 by me, Ed Squires, accompanied by Mr. Chip Hudson of the City of Meridian Water Department. Also present, were Brian Cavanagh (hydrogeologist with Hydro Logic, Inc. and Jamie Allen with Meridian Water Department. The Meridian #20 well is housed inside of a 31-foot by 32-foot cinder block pump house (Figure 4.) The 18-inch diameter well is equipped with a FloWay 14-inch, 1-stage, Model 14DKH deep well turbine pump (Figure 5, Appendix B) set on 70-feet of 10-inch column with a 5-foot long pump/ intake assembly (Appendix B). The design point of the pump is 2000 gallons per minute (gpm) at 65-feet of total dynamic head (Figure 6). The pump is driven by a 50 hp, 460 volt, 1800 rpm, U.S. Electrical Motors – High Thrust motor (Figure 5) The 10-inch diameter discharge- piping is comprised of a series of 10-inch plumbing fittings and fixtures, including check-valve, tees, couplings, flow-meter, and control valve (Figure 7) prior to exiting through the pump-house floor. The underground line elbows to the West where it enters the 2 million gallon Ustick Reservoir (Figure 4). The constant-speed well pump discharges exclusively to the reservoir. A series of 3 booster pumps within the pump-house are used to pressurize water from the reservoir to the distribution system utilizing a variable frequency motor drive. For the purposes of this examination, we need only be concerned with the main line to the reservoir and the flow-meter on the 10-inch discharge which records all discharge from the well. The well pump is set to operate within a predetermined water-level ranger in the storage reservoir. Specifically, the well pump turns on automatically when the level drops to 16 feet of water and shuts off after the tank is at 22-feet. The well produces more water (against less pressure) when the reservoir level is at 16-feet compared to when it is at 22-feet.

When we arrived on-site, the well was operating at 2,000 gpm against 12 psi of line pressure (Figure 3). Pumping water level in the well was measured at 39.73 feet below measuring point (Appendix C) at an instantaneous discharge of 1975 gpm. Water-level measurements are facilitated through a 2-inch diameter measuring port protruding from the 18-inch well casing (Figure 7, Appendix C). The pump was operating according to its performance curve (Figure 6) and the well was producing according to its calculated specific capacity (Figure 8). The field examination was conducted during the heat of summer high-use season so that it is presumed that the well had been operating consistently for several months. Jamie Allen, pump operator with the Meridian Water Department, recalled that he often observes pumping rates around 1800 gpm and as high as 2000 gpm during his daily site visits to the well. He noted that he could not recall the well producing more than 2000 gpm.

I observed the well in operation during peak season at discharge rates ranging between 1975 and 2000 gpm (Figure 3). The well would likely produce short-term discharge rates in excess of 2000 gpm during flushing operations (pumping against atmospheric pressure only) but these instances are not considered typical.

RECOMMENDATIONS:

With the installed pumping plant and well head plumbing configuration, the well appears to produce at a variable range between 1,800-to-2,000 gpm depending on the water level in the nearby Ustick Reservoir. When the tank level is low and aquifer pressures high, the well yields its Permitted flow rate of 4.5 cfs). This is not surprising because the pumping plant and well construction were designed to that target yield. Therefore, I recommend that the City of Meridian municipal water right No. 63-12416 be licensed for its requested diversion rate of 4.5 cfs (2019 gpm).

Have conditions of permit approval been met? X yes ___ no

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JUL 17 2001

F. FLOW CALCULATIONS

_____ Additional Computation Sheets Attached

Measured Method:

Instantaneous flow rates are based on field-observed readings of high-quality, nearly new, impeller flow-meters installed with slightly less installation tolerances than recommended by the manufacturer. These readings are supported by: 1) discussions with the pump operators responsible for upkeep of the well, 2) by the operating conditions and pump performance curve, and 3) by the well-documented capacity of the City's #20 groundwater well during previous pumping tests. A cross-check calculation is possible using recent 2002 production data from the City Water Department. The City's tally of water use (Jamie Allen, personal communication) shows between 69-to-74 million gallons of water pumped from the #20 supply well during the summer months of 2002. Dividing 74,000,000 gallons by 31 days in July and by 1440 minutes per day gives an average pumping rate of 1658 gpm average for the entire period. According to Mr. Allen, the pump does not run continuously because it automatically shuts off during periods when the reservoir is full. Therefore, the observed, calculated, and recommended maximum flow rates for the well appear to be justified.

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} \approx (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$$

$$V_{D.R.} \approx [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 =$$

$$V \approx \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} =$$

B

2. Volume Calculations for Other Uses:

Not applicable to a municipal water right.

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use From To	Rate of Diversion Q (cfs)	Annual Volume (afa)
<u>Municipal</u>	<u>Jan 1.</u> <u>Dec. 31</u>	<u>4.50 cfs</u>	<u>N/A</u>
Totals:		<u>4.50 cfs</u>	<u>N/A</u>

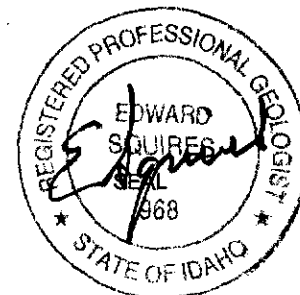
2. Recommended Amendments

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

I. AUTHENTICATION

Field Examiner's Name Edward Squires CWRE No. 03-125 Date August 6, 2002

Reviewer _____ Date _____



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AUG 12 2002

FIGURES

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OCT 02 2002

CITY OF MERIDIAN WATER SYSTEM EXISTING SERVICE AREA
(5-25-01)

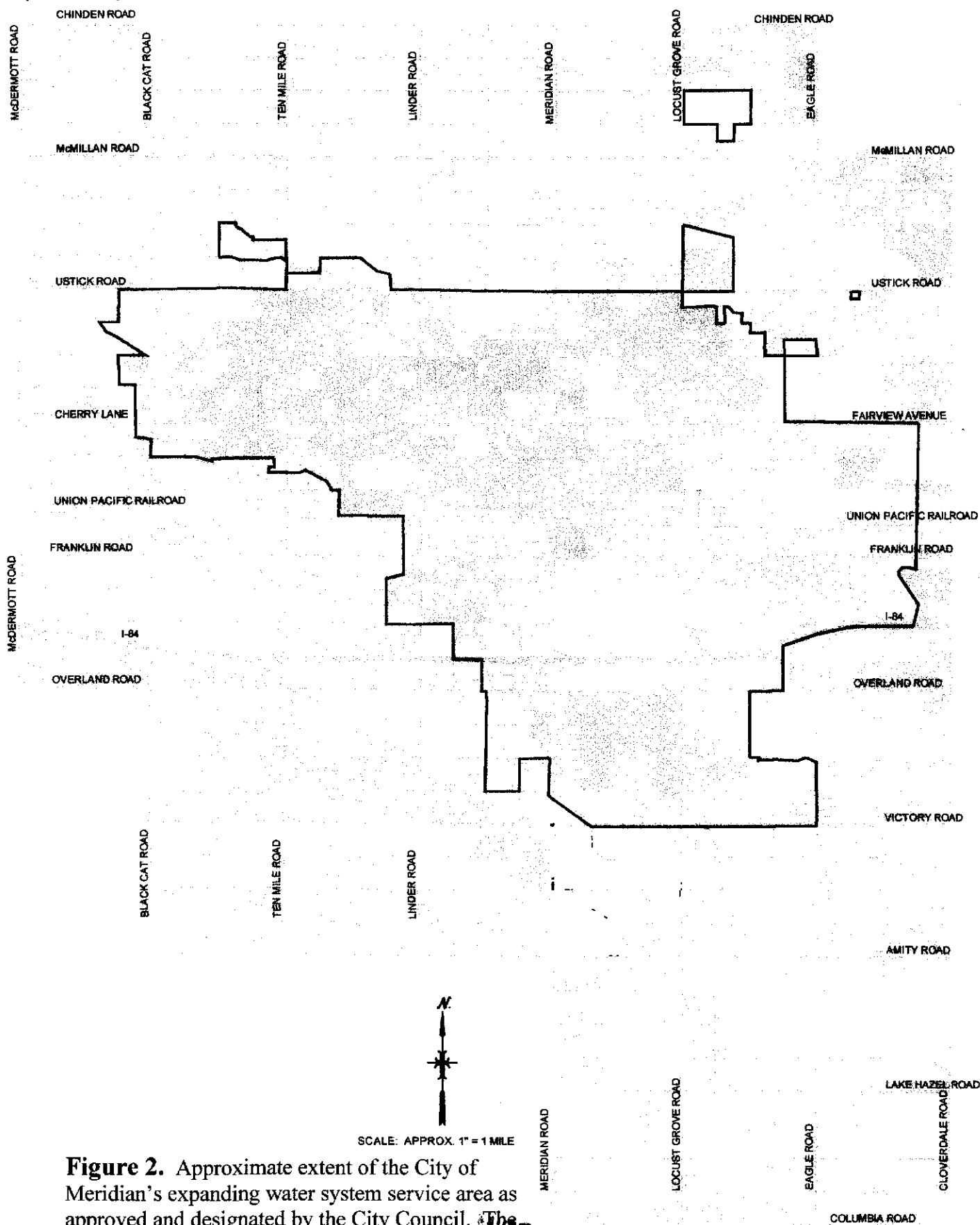
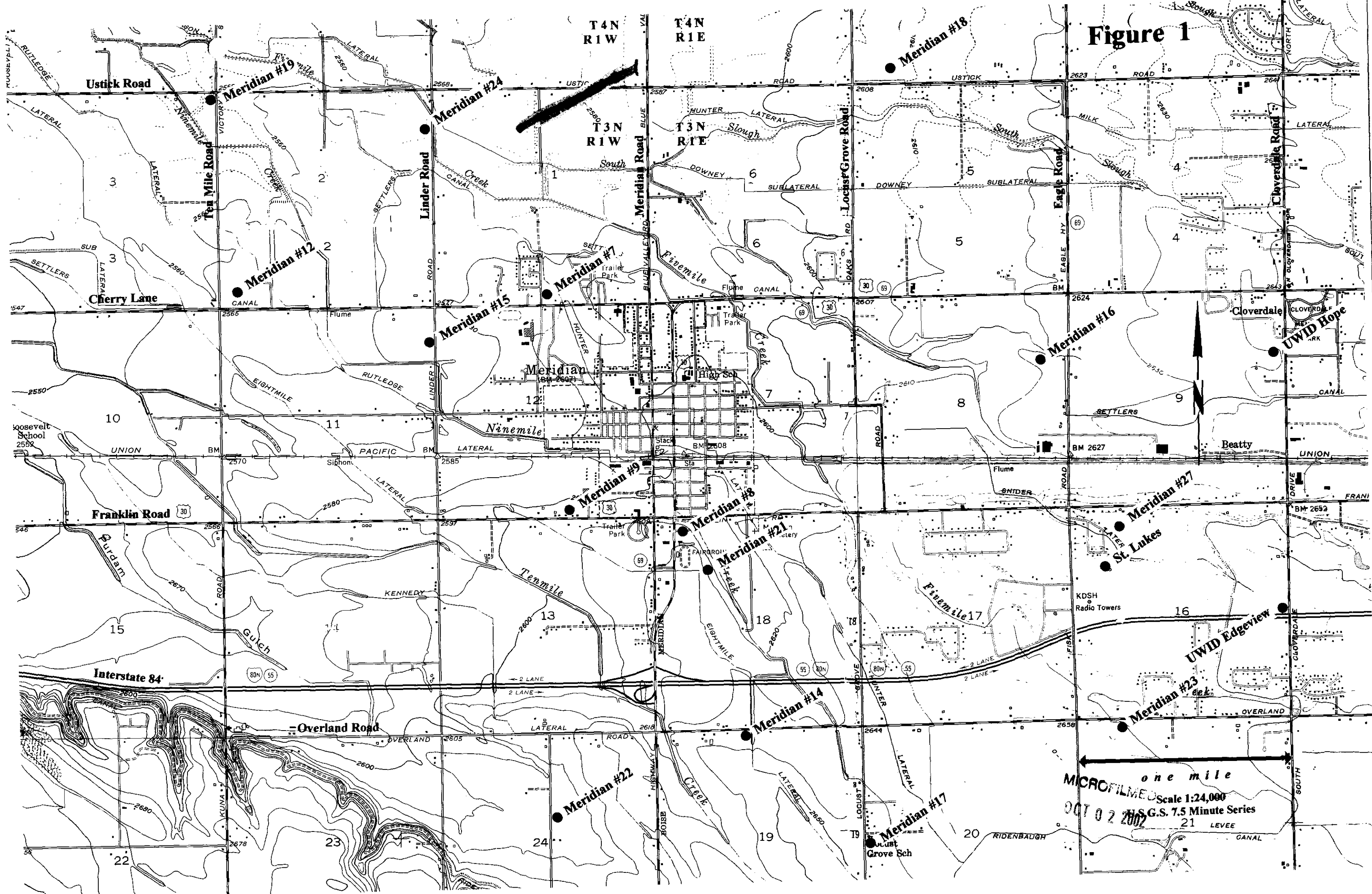


Figure 2. Approximate extent of the City of Meridian's expanding water system service area as approved and designated by the City Council. The area may extend beyond the City's formally designated limits and/or its area of impact.

Figure 2.

Figure 1



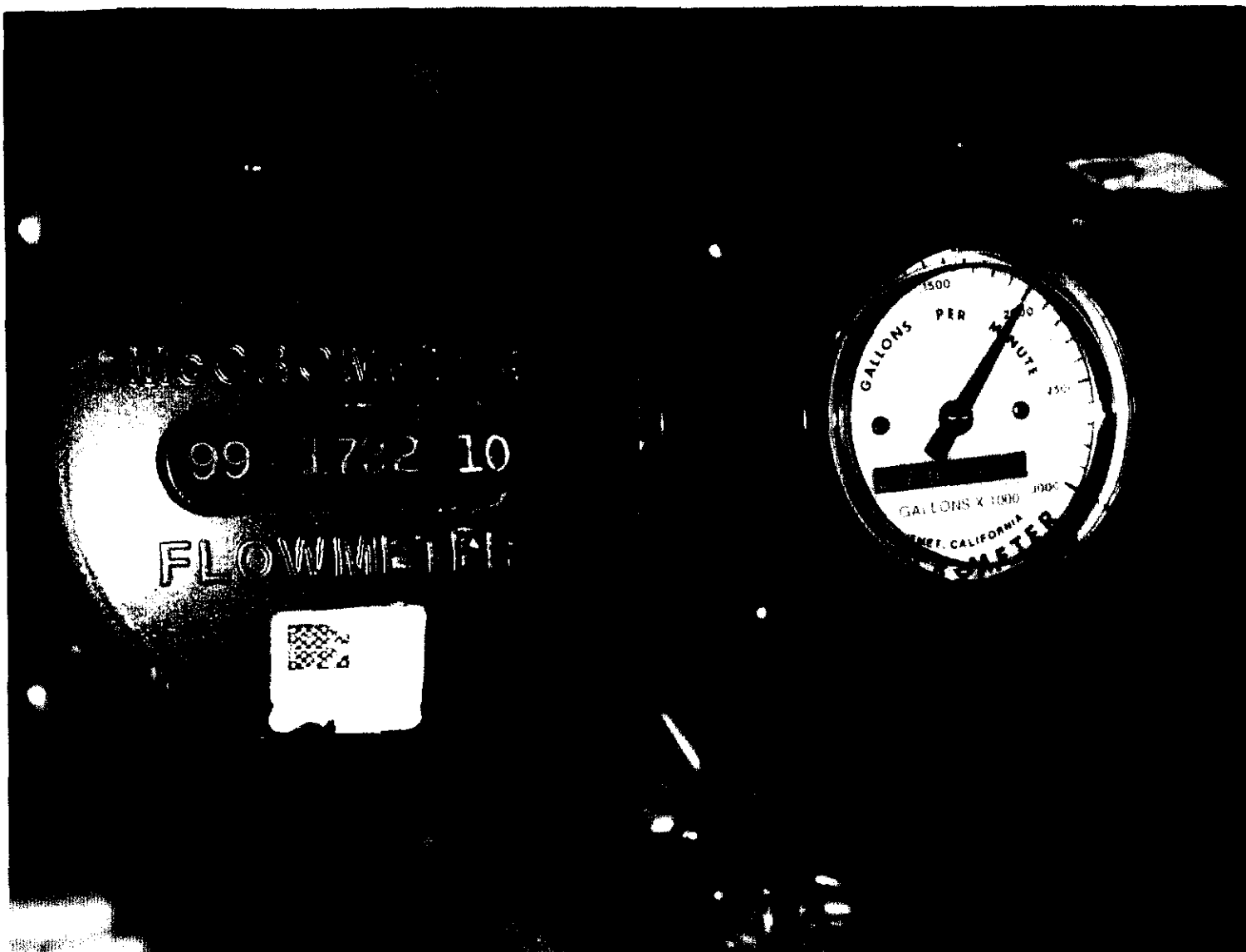


Figure 3. Photographs of the McCrometer brand impeller flow-meter installed in the 10-inch discharge piping of the City of Meridian's #20 municipal supply well during the July 16, 2001 Proof of Beneficial Use Field Licensing Examination. View on left is of the Model Number. Photo on right shows the instantaneous flow rate (2000 gpm) and totalized flow indicated by the instrument during the field inspection.

Figure 3.

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10 10 2001

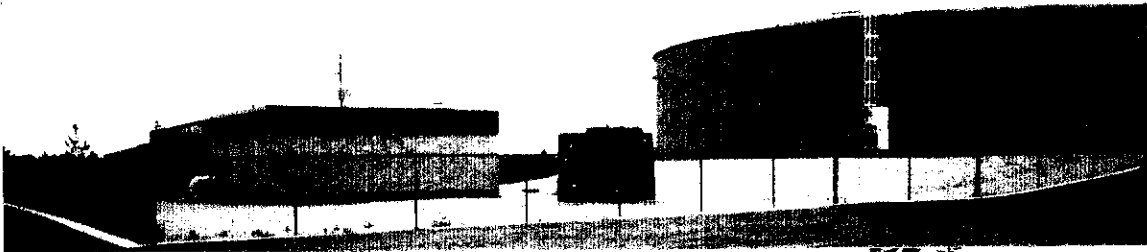
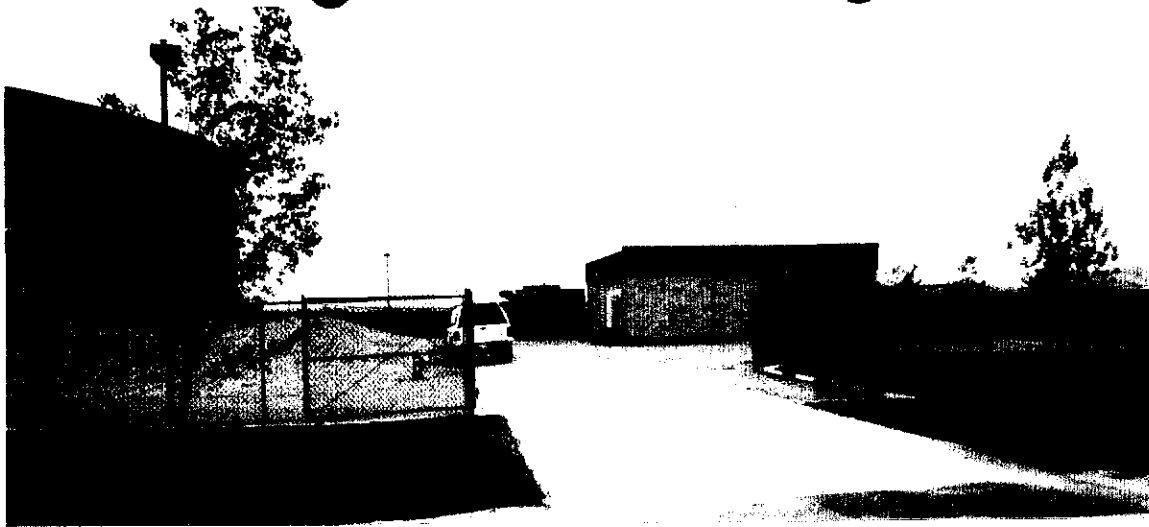


Figure 4. July 16, 2001 photographs of the City of Meridian's #20 municipal supply well pump house. Upper photo looks north from Ustick Road. Green emergency power generator on left behind pump house. Middle view looks east with 2 million gallon Ustick Reservoir in foreground. Lower shot is to the west.

Figure 4.

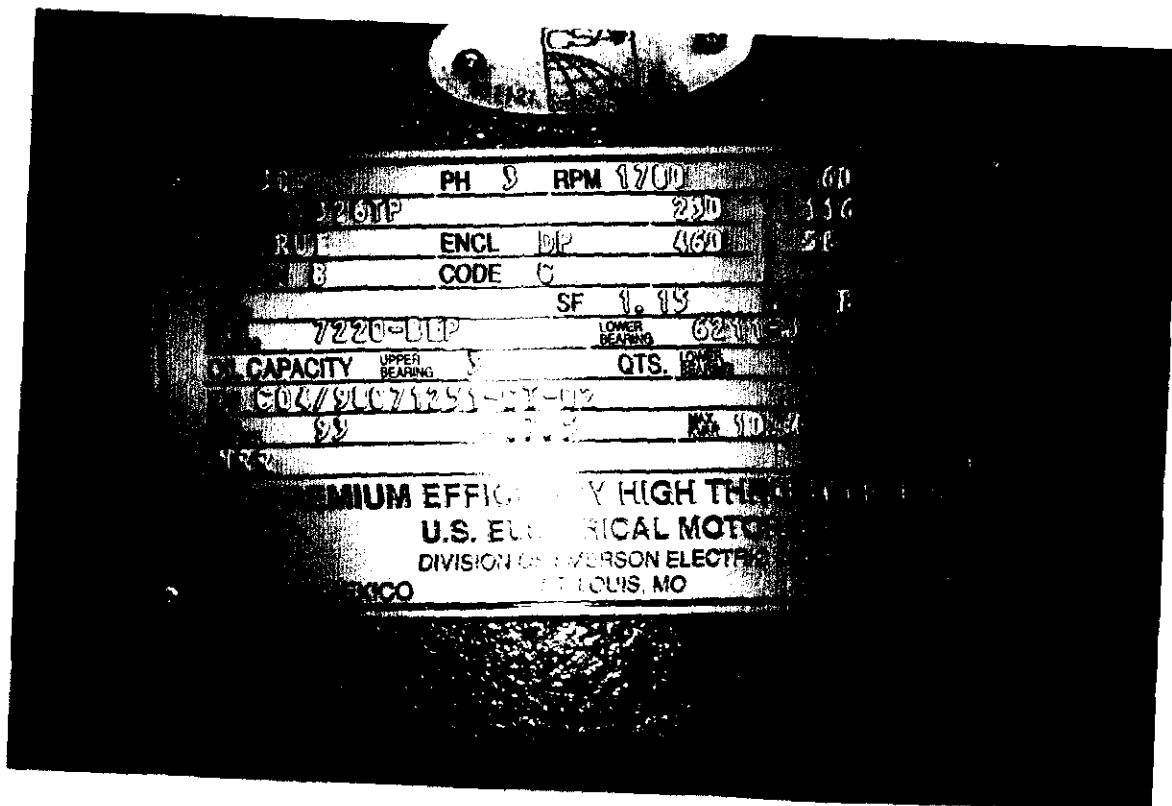
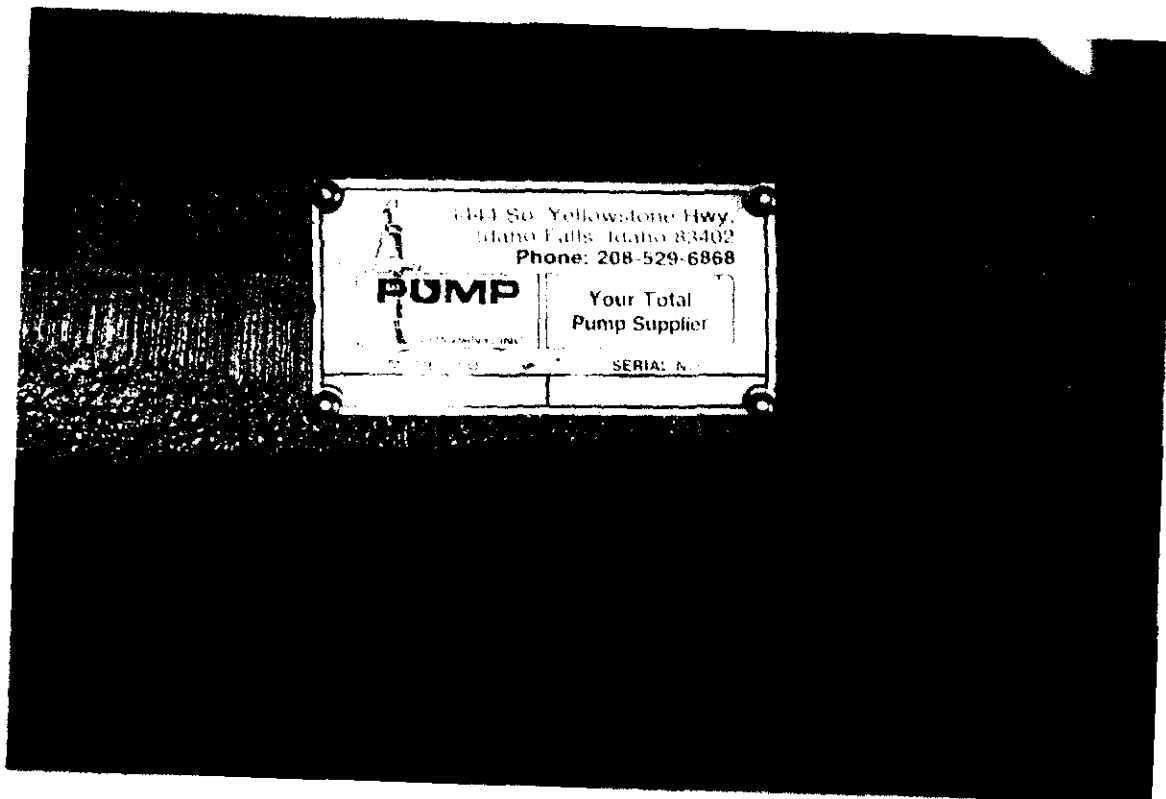


Figure 5. July 16, 2001 photographs of the City of Meridian's #20 municipal supply well's discharge head and motor housing showing the identification plates for the installed deep-well turbine pump and 50 HP drive motor.

Figure 5.

Well 20 deep well
VI-59

up # P-1-1 : 50HP DEEPWELL Pump

1770 RPM

ENCLOSED TYPE IMPELLER

14DKH

NO. OF STAGES	EFF. CHANGE (NO. OF POINTS)
1	-3
2	-1
3	-0

HORSEPOWER WILL BE EFFECTED BY CHANGE IN EFFICIENCY

PERFORMANCE FOR:
Bowl Pattern No.: 542434-C-R7
Imp. Pattern No.: 542424-B-R2

PUMP DATA

Shaft Dia. (IN.)	1 15/16
Maximum Sphere (IN.)	1 1/4
Maximum Head (FT.)*	767
Min. Submergence (IN.)**	24
Impeller Wt. (LBS.)	26.9
Thrust Constant (K)	16.5
Bowl O.D. (IN.)	13 1/4

NOTES

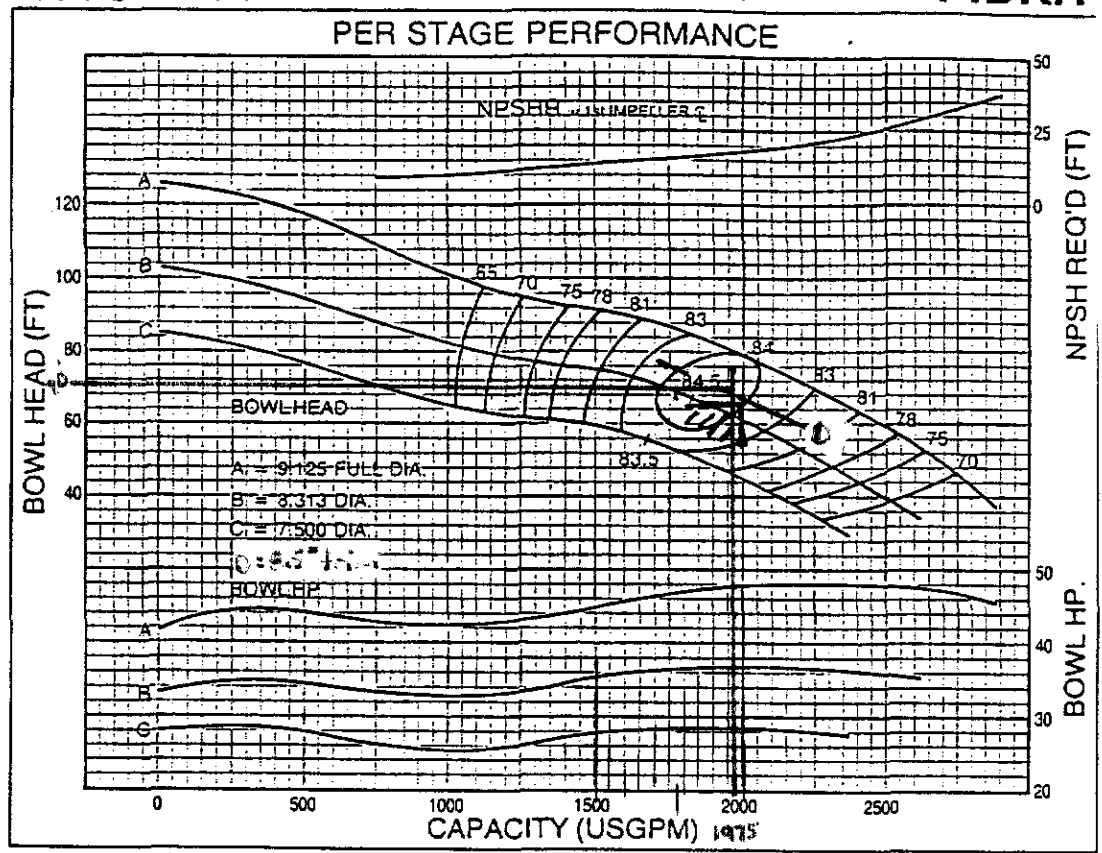
Performance indicated based on cold water with a specific gravity of 1.0.

* Standard construction.

** Minimum submergence over lip of bell to prevent vortexing.

Efficiency improvements are available in certain instances. Please contact the factory.

PER STAGE PERFORMANCE



STAGE 2000 GPM @ 65' TPD

14JKL
Contact Factory
For Performance

Figure 6.

CAPACITY (USGPM)

BOWL HEAD (FT)

NPSH REQ'D (FT)

BOWL HP

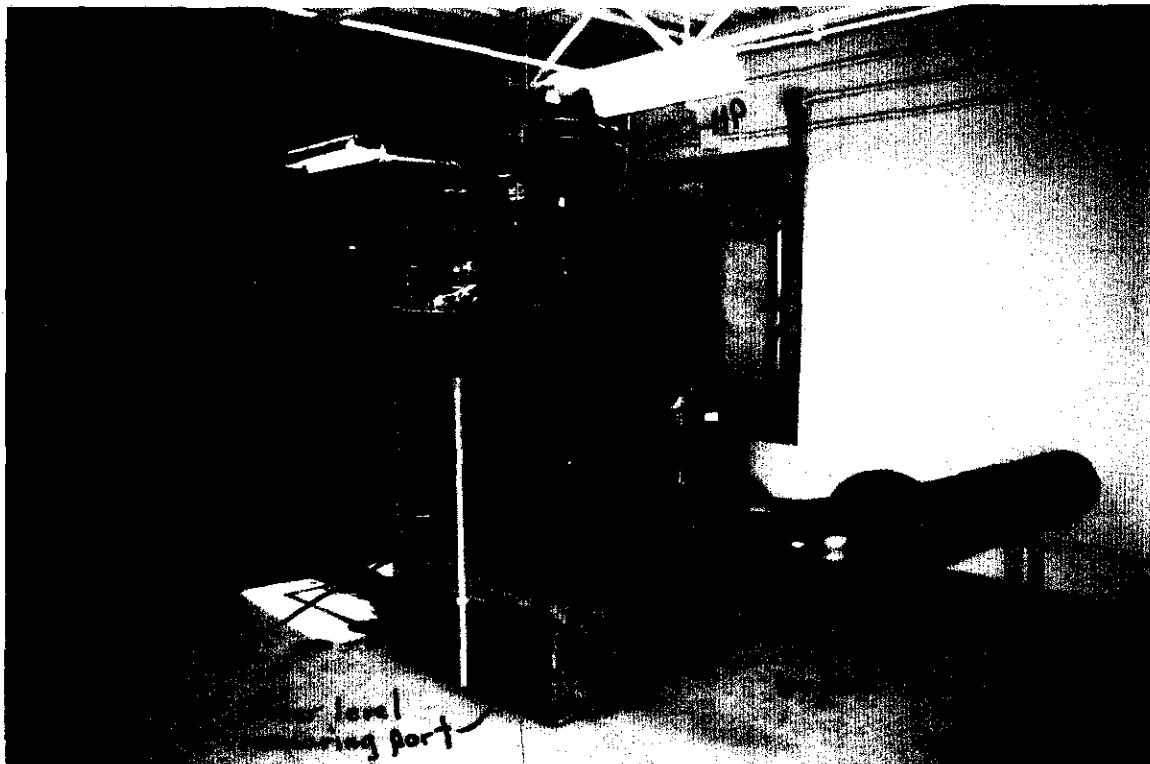
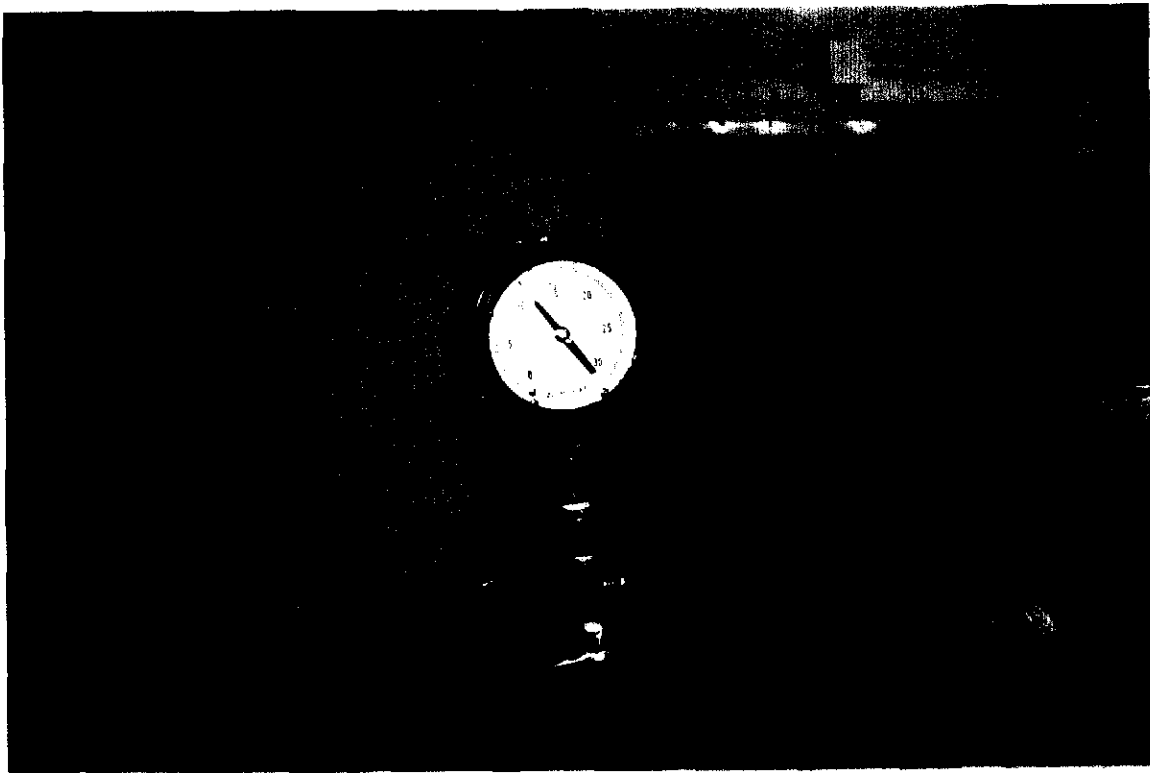


Figure 7. July 16, 2001 photographs of the City of Meridian's #20 municipal supply well's discharge piping and well head. The upper view is the in-line pressure gage reflecting the pressure head (12 psi) required to pump against the water-level in the City's 2 million gallon Ustick Reservoir to which the #20 well discharges. Lower photo shows the well head plumbing, including its 50 HP drive motor, and a 12-inch artesian by-pass line for the diversion of the well's above ground pressure head.

Figure 7.

City of Meridian #20 Supply Well

Projected pumping water-levels for various discharge rates

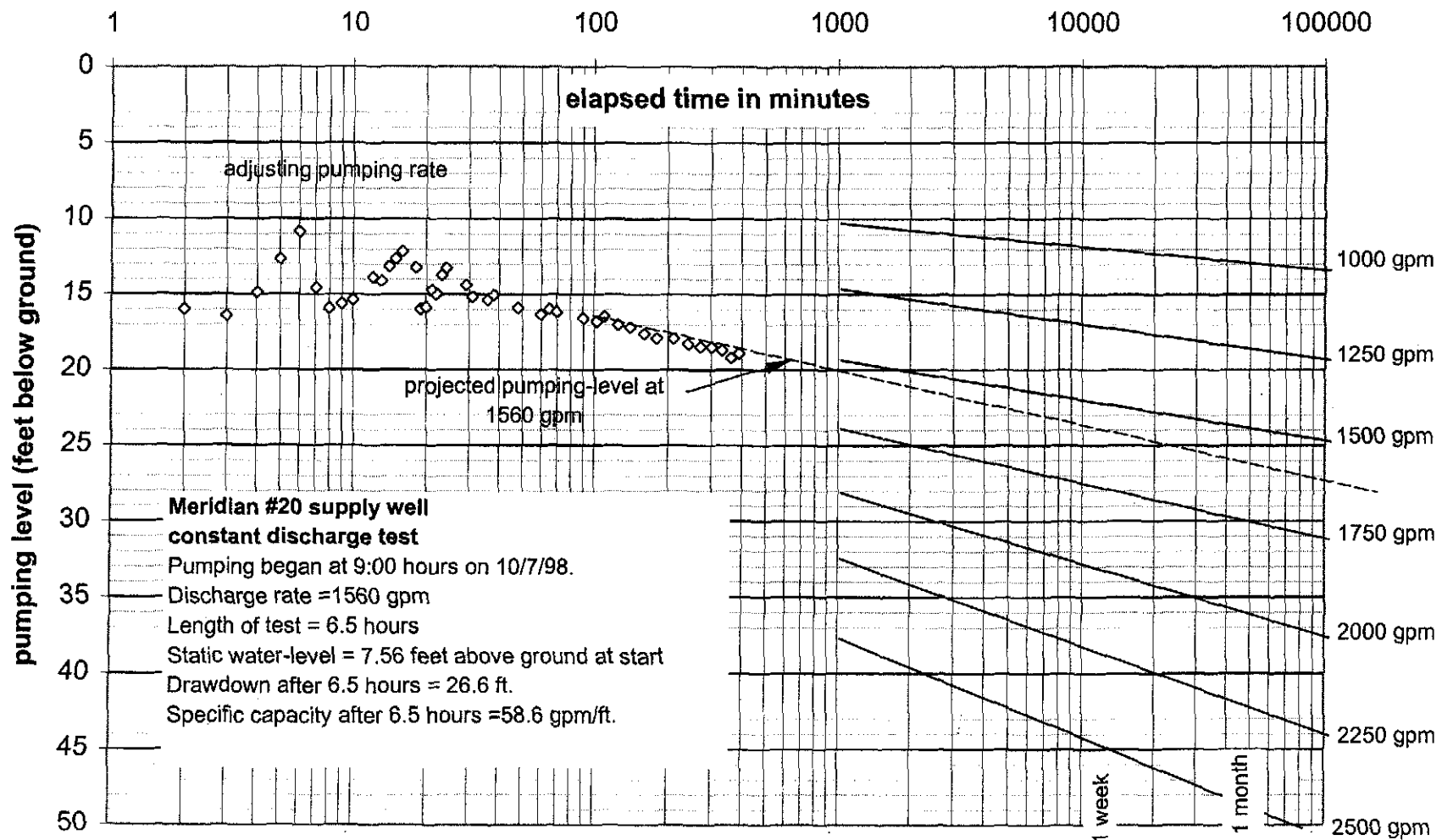


Figure 8.

Appendix A.

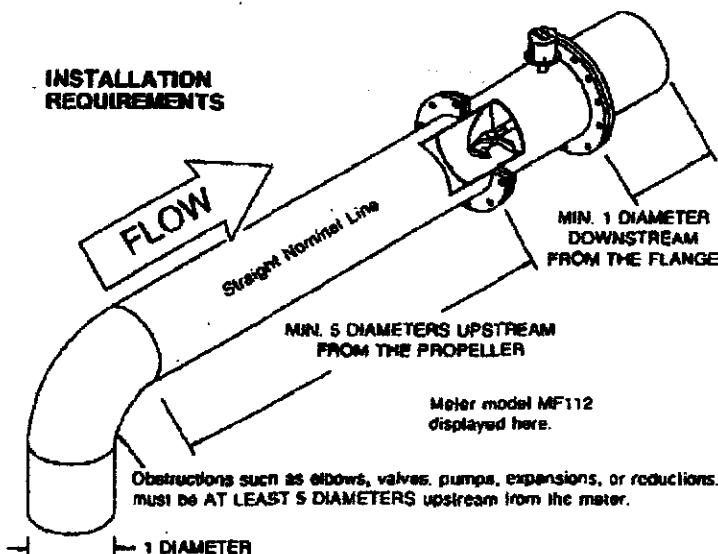
Installation specifications for the McCrometer propeller-type flow meter installed on the City of Meridian's #20 municipal supply well.

**MICROFILMED
OCT 02 2002**

INSTALLATION INSTRUCTIONS

Proper meter installation is the first step to insure meter performance. Follow these instructions closely. Consult an authorized service representative or the factory for any circumstances encountered not covered in these instructions.

All McCrometer products are tested and inspected during manufacture and prior to shipping. An inspection should be performed at the time of unpacking to detect any damage that might have occurred during shipment.



EXAMPLE:

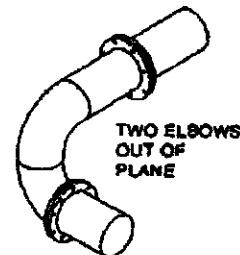
A 8 inch nominal size meter:

UPSTREAM: Requires $8" \times 5 = 40"$

DOWNSTREAM: Requires $8" \times 1 = 8"$

STRAIGHTENING VANES:

Vanes can be added to insure steadier flow through the meter. Option # 6.



McCrometer propeller meters should be installed a minimum of five diameters downstream of any obstructions. Flowmeters are velocity sensing devices and are vulnerable to certain upstream disturbances. Because of this, meters need certain lengths of straight pipe runs before and after the meter. These distances usually relate to the diameter of the pipe used. Obstructions can include elbows, valves, pumps and changes in pipe diameter. The uneven flow created by these obstructions can vary with each system. If your applications provides for more than five diameters of upstream run, use the available distance.

Downstream run should be one diameter of straight pipe length after the meter.

NOTE: Special attention should be given to systems using two elbows "out of plane" or devices such as a centrifugal sand separator. These cause swirling flow in the line that affect propeller meters. Well developed swirls can travel up to 100 diameters downstream if unobstructed. Since most installations have less than 100 diameters to work with, straightening vanes become necessary to alleviate the problem. Straightening vanes will break-up most swirls and ensure more accurate measurement. McCrometer's mainline meters like the MW500 series have vanes included as a standard feature. If your model does not have straightening vanes (e.g., MO300 Bolt-On Saddle series), McCrometer actively encourages you to include them in the pipe just ahead of the meter.

OTHER INSTALLATION CONSIDERATIONS

- All propeller flowmeters are calibrated for a full pipe-line. If the pipe isn't completely full, the flowmeter will over-register the flow. Although a minimum line pressure isn't necessary for an accurate measurement, a full pipe is!

- McCrometer flowmeters can be mounted either horizontally or vertically. Although most applications are horizontally oriented, mounting the meter vertically actually offers some slight advantages. One reason is that gravity has a more pronounced flow-conditioning effect with lines in the vertical (as opposed to horizontal) orientation. The intended configuration of the meter must be specified when ordering.
- With the meter installed, check the rate-of-flow indicator. It should be stable to the point that it can be easily read. Some movement is normal, but if the indicator is moving erratically back and forth, disturbances exist and meter accuracy decreases.

SAFETY

- Any person installing, inspecting or maintaining a McCrometer flowmeter should have a working understanding of piping configurations and systems under pressure.
- Before adjusting or removing any meter, be certain the system has depressurized completely. **NEVER ATTEMPT TO REMOVE A METER UNDER PRESSURE!**
- Be careful when lifting meters. Meters can cause serious injury if dropped or lifted incorrectly.
- Only necessary and appropriate tools should be used when working on a meter.
- Before starting a system, make sure all connections are properly secured. Keep a safe and prudent distance away from the meter during system start-up.

McCrometer

2002

Appendix B.

Pump and motor specifications, installation data, and technical information sheets for the City of Meridian's #20 municipal well.

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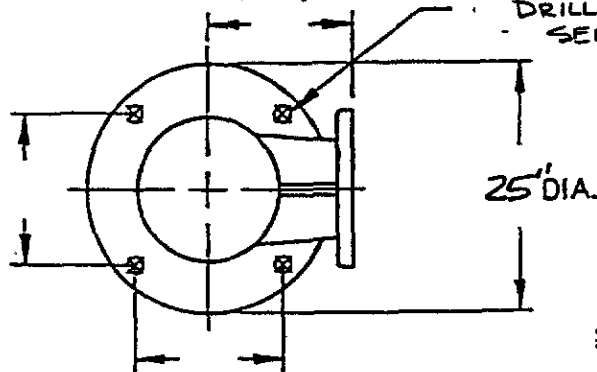
OCT 2 2002

Well 20' deep well

VERTICAL TURBINE PUMP

TYPE AF

DRILLED FOR FLANGE
SEE ATTACHED DRAWING



DISCHARGE

10" 125# ANSI-FF FLG.
12-1" DIA. HOLES *
14 1/4" DIA. BOLT CIRCLE
16" DIA. FLANGE
* BOLT HOLES STRADDLE VERTICAL C

MOTOR

PUMP

MAKE U.S. Motors
ENCLOSURE WP-1
TYPE VHS NRR YES
HP 50 RPM 1800
PHASE 3 HERTZ 60
VOLTAGE 460
FRAME NO. 326TP
TYPE COUPLING THREADED

10x16 1/2 AF C.I. DISCH HD.
1 1/2" LINE SHAFT 10" COL
— SHAFT TUBE
PROD. LUBE X OIL LUBE
TYPE 14DKH STAGE 1
2000 GPM 65' TDH
IMPELLER 8 1/2"
STRAINER YES
WELL I.D. 18"

MATERIAL

COL PIPE STEEL
LINE SHAFT 416 S.S.
SHAFT TUBE —
BOWL SHAFT 416 SS
SHAFT SEAL —
BEARING RETAINER BRONZE

PUMP BOWL CAST IRON
IMPELLER BRONZE
BEARINGS (BOWL) BRONZE
BEARINGS (LINE SHAFT) RUBBER
STRAINER GALVANIZED
BOWL W/R —
IMPELLER W/R —

CUSTOMER USTICK RESERVOIR
50HP DEEPWELL Pump

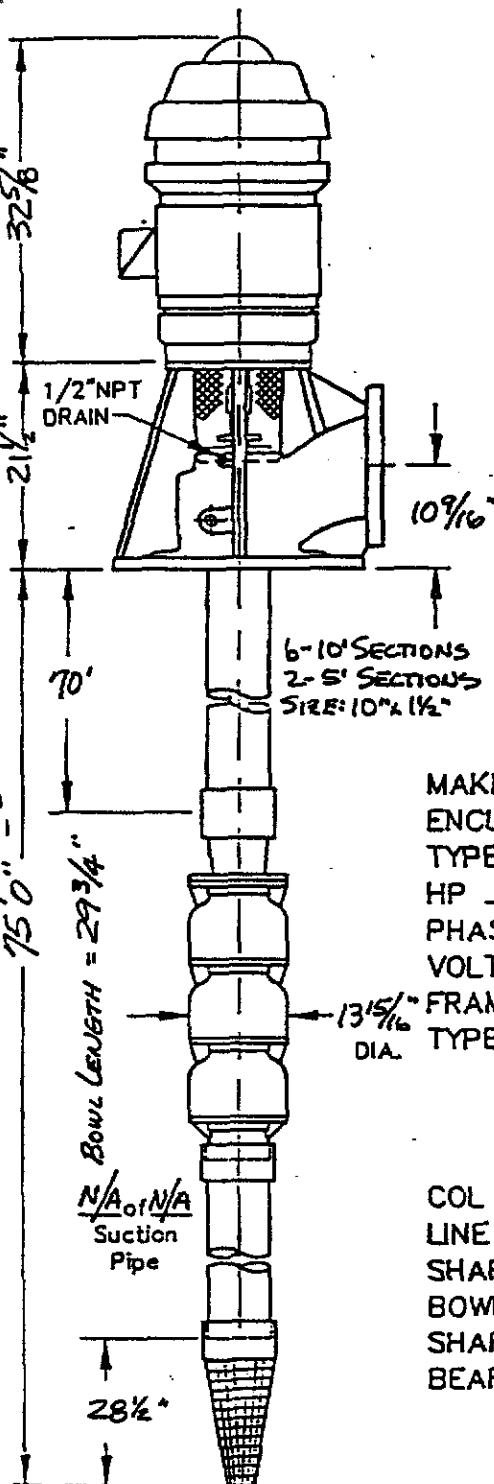
FLUID WATER
SPEC. GRAVITY 1.0
VISCOSITY —
TEMPERATURE —
PH —

ORDER NO. —
SUPPLIER —

DWG. NO. —
SERIAL NO. —

REMARKS
NO. UNITS REQ'D. 1

NOT TO BE USED
FOR CONSTRUCTION



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PUMP DATA SHEET
VERTICAL TURBINE PUMPS NO. 1Project: Ustick Reservoir and Booster Pump StationPump Mfr.: FlowayOwner: City of MeridianSize & Type: 14" Vertical TurbineService: Well WaterNo. Stages: 1Pump Name: Well Pump

Serial No.: _____

Equip. Tag Number(s): P-1-1Model No.: 14DKHNo. Pumps Required: 1Drive Type: ☒ Constant ☐ Adjustable

LIQUID	OPERATING CONDITIONS	SERVICE CONDITIONS
Name: <u>Raw Water</u>	Capacity (U.S. gpm): Normal <u>2,000</u> Rated <u>2,000*</u>	Temp (°F): Max <u>105</u> Min <u>55</u>
Pumping Temperature (°F): Normal <u>60</u> Max _____ Min _____	Total Dynamic Head (ft): <u>65*</u>	Rel. Hum (%): Max _____ Min _____
Specific Gravity @ <u>60</u> °F: <u>1</u>	Suction Lift (psig): Max <u>0</u> Rated _____	Altitude (ft): <u>2585</u>
Vapor Pressure (psia): <u>0.256</u>	Submergence (min. ft): <u>20</u>	☒ Indoor ☒ Heated
Viscosity (CP) @ <u>60</u> °F: <u>1.12</u>	NPSH Available (ft): <u>50</u>	☐ Outdoor ☐ Unheated
pH: <u>7</u>		Will Pump be Submerged? ☐ Yes ☒ No
Corrosion/Erosion/Abrasion Caused by: _____ _____		Area Classification: _____
Remarks: _____ _____ _____	Remarks: _____ _____ _____	Other: _____ Remarks: _____ _____ _____

PERFORMANCE REQUIREMENTS (manufacturer to supply missing data)

Proposal Curve No.: _____	Min. Continuous Flow (gpm): _____	NPSH Required (ft water): _____
Pump Speed Range (rpm): <u>1770</u>	Max. Head (ft): _____	3% Head Drop _____
Efficiency (%): <u>80</u>	Max. Power (BHP): _____	Suction Specific Speed: _____
Rated Power (BHP): <u>41</u>		Factory Testing: ☐ Required ☒ Not Required

Remarks: *Preliminary pump selection. Final pump selection will be dependent upon well test results.

Well is anticipated to be artesian with 10 to 15 feet of shut-in head.

Equipment Tag Number(s): <u>P-1-1</u>				
PUMP CONSTRUCTION DETAILS (manufacturer to supply missing data)				
Nozzles				Miscellaneous Connections
	Size	Rating	Facing	Location
Suction				
Discharge	10"	125	Flat	
				Drain
				Vent
				Pres. Gauge
				Warm Up
Casing Mount:		Impeller Type:		Bearings (Type/No.):
☐ Vertical		☐ Open ☒ Closed		Bowl _____
☒ Vertical Barrel		Impeller Diameter (in.):		Lineshaft _____ Pump Shaft _____
Max. Allowable Pressure (psig):		Rated _____ Max. _____ Min. _____		Intermediate _____ Guide _____
At 60°F: _____		Bowl Size (in.) <u>14 (nominal)</u>		Head Shaft: _____
At Norm. Pump. Temp.: _____		No. of Stages: <u>1</u>		Lubrication Type:
Pump Shaft Dia. (In.): _____		Packing Mfr: _____		☐ Grease ☐ Oil
Column Size (In.): <u>10</u>		Type <u>Teflon</u>		☒ Pumped Liquid
Lineshaft Type:		Size/No. Rings _____		Coupling:
☒ Open ☐ Enclosed		API Class Code _____		Manufacturer _____
Lineshaft Size (In.): _____		Manufacturer _____		Type _____ Model _____
Hydro Test Pressure (psig): _____		Model _____		Driver Half-Coupling Mounted by:
Field Testing: ☐ Not required		Manufacturer Code _____		☐ Pump Mfr. ☐ Driver Mfr.
☒ Required, functional and performance				☐ Purchaser
				Gland Type/Material: <u>Split/C.I.</u>
				Gland Plate Taps Required:
				☐ Quench ☐ Flush ☐ Drain ☐ Vent
MATERIALS (manufacturer to supply missing data)				
Bowl: <u>Vitreous enameled cast iron</u>		Impeller: <u>Bronze</u>		Shaft: <u>Stainless Steel, Type 416</u>
Bowl Wear Rings: <u>Bronze</u>		Impeller Wear Rings: <u>Bronze</u>		Shaft Sleeve: <u>Stainless Steel</u>
Column: <u>Steel, ASTM A53, Grade B</u>		Bowl Bearing: <u>Rubber</u>		Discharge Head:
Remarks: _____		Head Shaft Bearing: _____		Type Surface, ell with drilled full face 1/4-inch-thick red rubber gasket.
		Lineshaft Bearing: <u>Fluted cutless rubber</u>		Material <u>Cast iron</u>

INDUCTION MOTOR DATA SHEET

Project: Ustick Reservoir and Booster Pump StationOwner: City of MeridianEquipment Name: Well Pump MotorEquipment Tag Number(s): P-1-1Type: Squirrel-cage induction meeting requirements of NEMA MG 1Manufacturer: For multiple units of the same type of equipment, furnish motors and accessories of a single manufacturerHazardous Location: ☐ Furnish motors for hazardous (classified) locations that conform to UL 674 and have an applied UL listing markMotor Horsepower: 50

Guaranteed Minimum Efficiency at Full Load: _____ percent

Voltage: 480

Guaranteed Minimum Power Factor at Full Load: _____ percent

Phase: 3Service Factor (@ rated max. amb. temp.): ☐ 1.0 ☒ 1.15Frequency: 60Enclosure Type: Drip-proofSynchronous Speed: 1800 rpmMounting Type: ☐ Horizontal ☒ Vertical☐ Multispeed, Two-Speed:☒ Vertical Shaft: ☐ Solid ☒ Hollow

_____/____ rpm

☐ Vertical Thrust Capacity (lb): Up _____ Down _____☐ Constant Horsepower☐ Adjustable Speed Drive: See Section 16485, ADJUSTABLE
FREQUENCY, CONTROLLED SPEED, DRIVE SYSTEMS.☐ Variable Torque☐ Constant Torque

Operating Speed Range: _____ to _____ % of Rated Speed

Winding: ☐ One ☐ Two☐ Thermal Protection: _____☐ Space Heater: _____ volts, single phase☒ Oversize main terminal (conduit) box for motors☒ Terminal for connection of equipment grounding wire in each terminal boxAdditional Motor Requirements: ☒ See Section 16405, AC INDUCTION MOTORS

Special Features:

Motor shall have 30 percent momentary upthrust protection.

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ADDITIONAL REQUIREMENTS

Provide water tight installation including gasketed discharge head base and sealed penetrations in the discharge head.

Suction Strainer - Cone

Depth Gauge - 1/4-inch polyethylene air line with water tight connection at discharge head, Bourdon type direct-reading drawdown gauge, and Schrader air valve and tire pump.

Suction Case - Straight.

Pump Setting: Provide 70-foot column, with top and bottom sections being 5-foot lengths.

Upthrust Protection: Bowls shall be designed with momentary upthrust protection to allow pump to come up to pressure.

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OCT 02 2002

Appendix C.

**Field sketches and measurements of water level and water chemistry
during the July 16, 2001 Proof of Beneficial Use field examination for
the City of Meridian's #20 municipal supply well.**

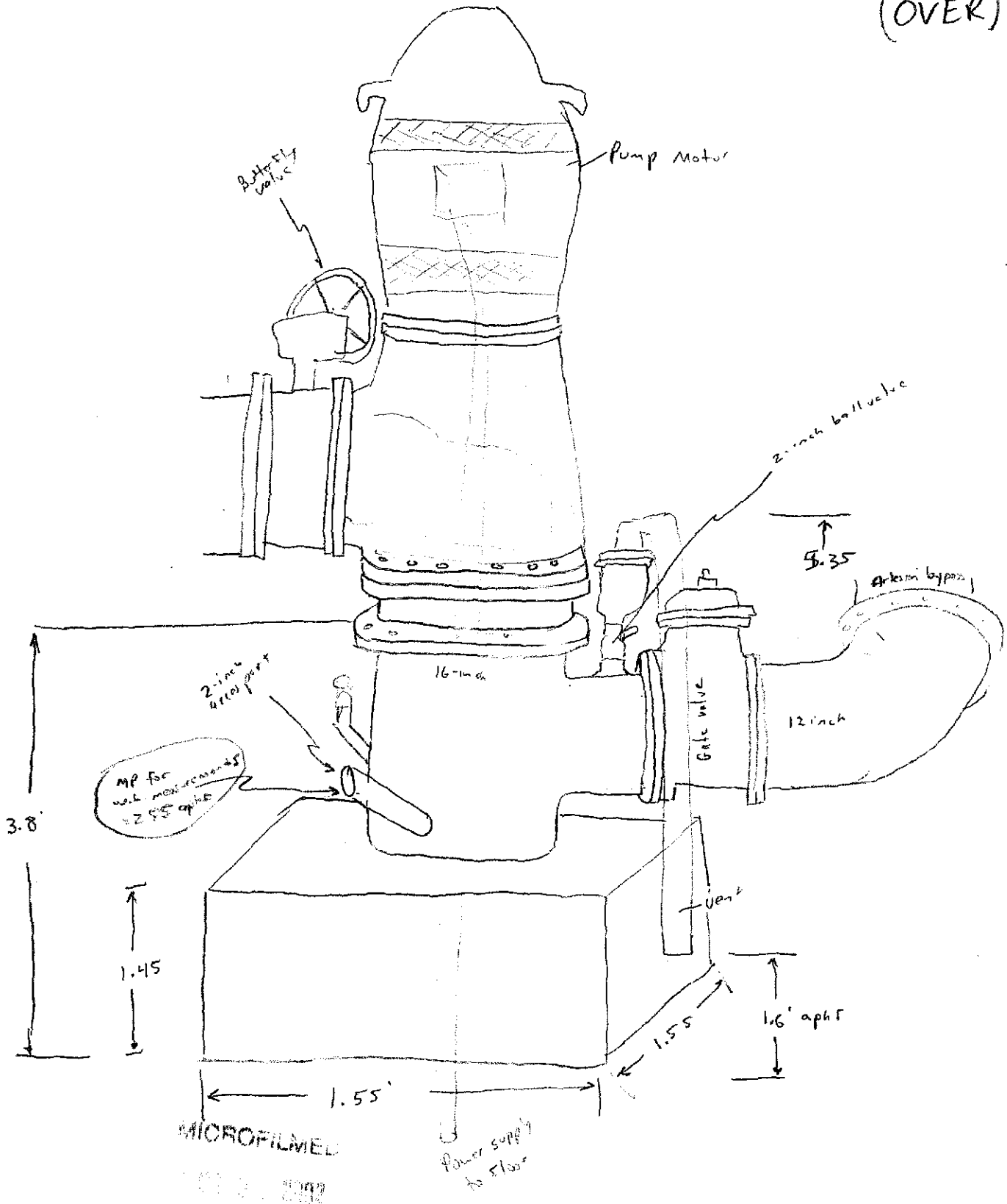
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OCT 02 2002

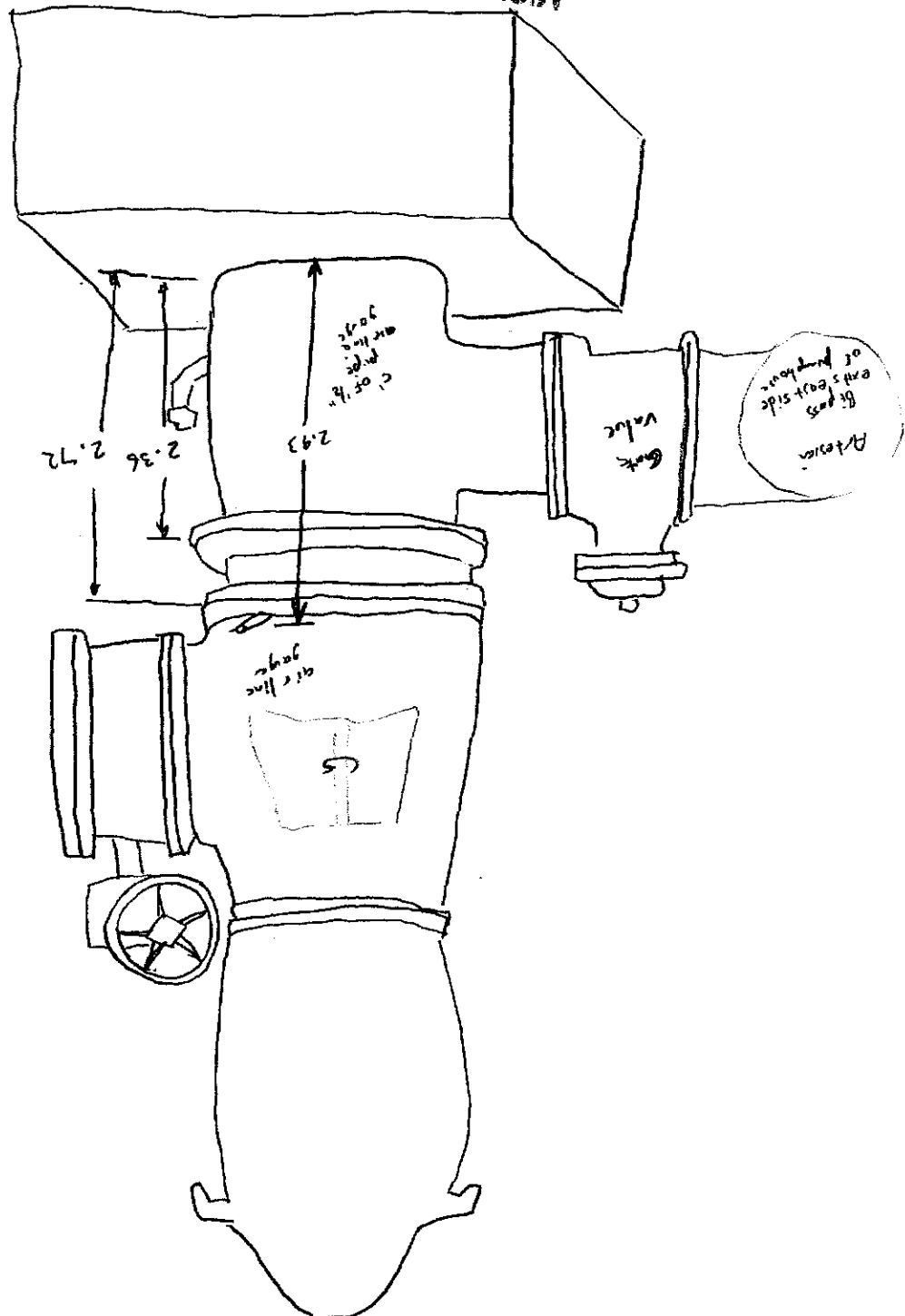
CALCULATIONS AND DESIGN DATA		PREPARED BY B. C. [signature]
SUBJECT	Meridian # 20 Supply well - R. [signature]	DATE 7-17-01
		SHEET OF

West Side of well head (view looking east)

(OVER)



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 2002 10 22



East Side

CALCULATIONS AND DESIGN DATA		PREPARED BY <i>B. Cavanagh</i>
SUBJECT	DATE <i>7-17-01</i>	
<i>Meridian #20 Supply - Beneficial use exam</i>		SHEET <i>1</i> OF <i>1</i>

13:00 hrs to 16:00

13:46 D.O. = 3.2
 pH = 6.86 @ 18.8°C
 T = 61.3
 ORP = 119 mV (+)

14:00 PWL = 39.73 @ 1975 gpm

0	279 771 x 1000	Q = 1975
54 sec	279 793	"
1:50	279 795	"
2 min	279 795.4 x 1000	Q = 1975

14:06 PWL = 39.89 bmp mp = 2.85 @ 1975 gpm

14:09 = 279 803 x 1000 Q = 1975
 14:14 = 279 814 x 1000
 14:16 = 279 818

14:10 pH = 7.25

14:11 PWL = 40.01 chlorinic feed done on 73 mg
 D.O. = 2.5 mg/l motor @ 90%
 T = 61.3
 pH = 7.25

Pump house dimensions	
31' 4"	N-S
32	E-W

14:14 PWL = 40.26 bmp 1975 gpm psi = 11.5

14:35 PWL = 40.50 1975 gpm

CS - 230 ml back in office

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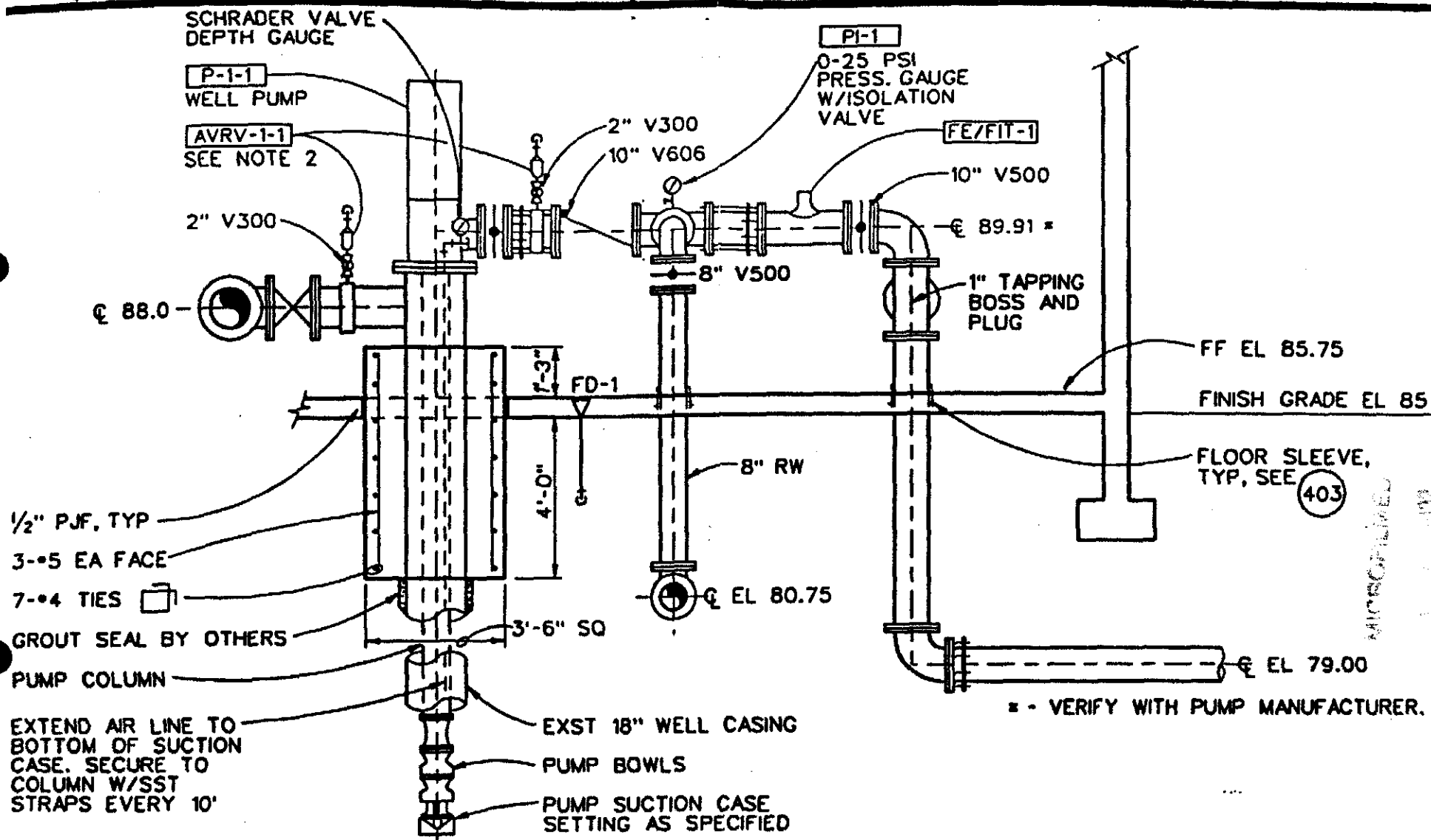
Appendix D.

Miscellaneous documents and figures pertinent to the licensing of City of Meridian's water right Permit No. 63-12416 including State of Idaho Well Driller's Report for Well #20, as-built well construction diagram, corrected Application for Permit (to appropriate the waters of the State of Idaho), and discharge piping schematic.

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OCT 02 2002

and *[Signature]* Date *10-13-9*
Supervisor or Operator



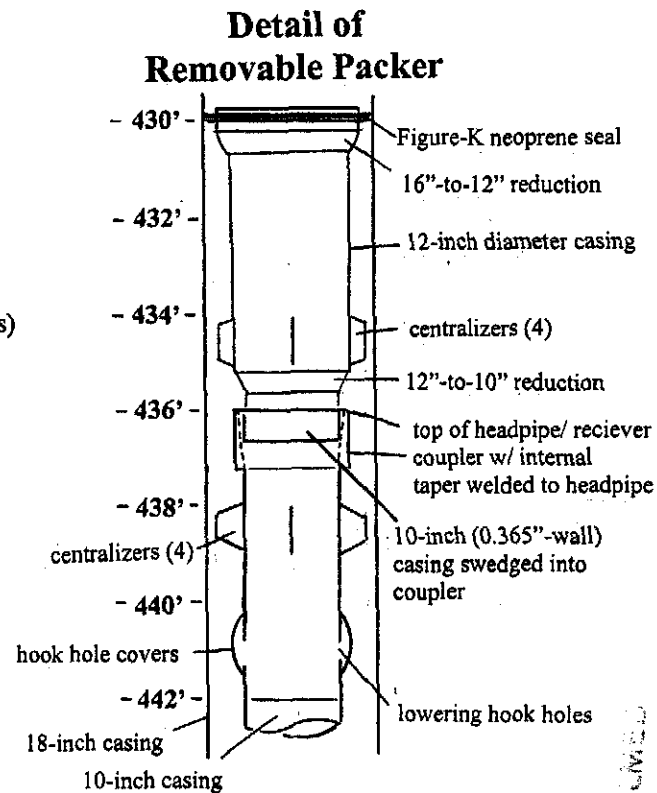
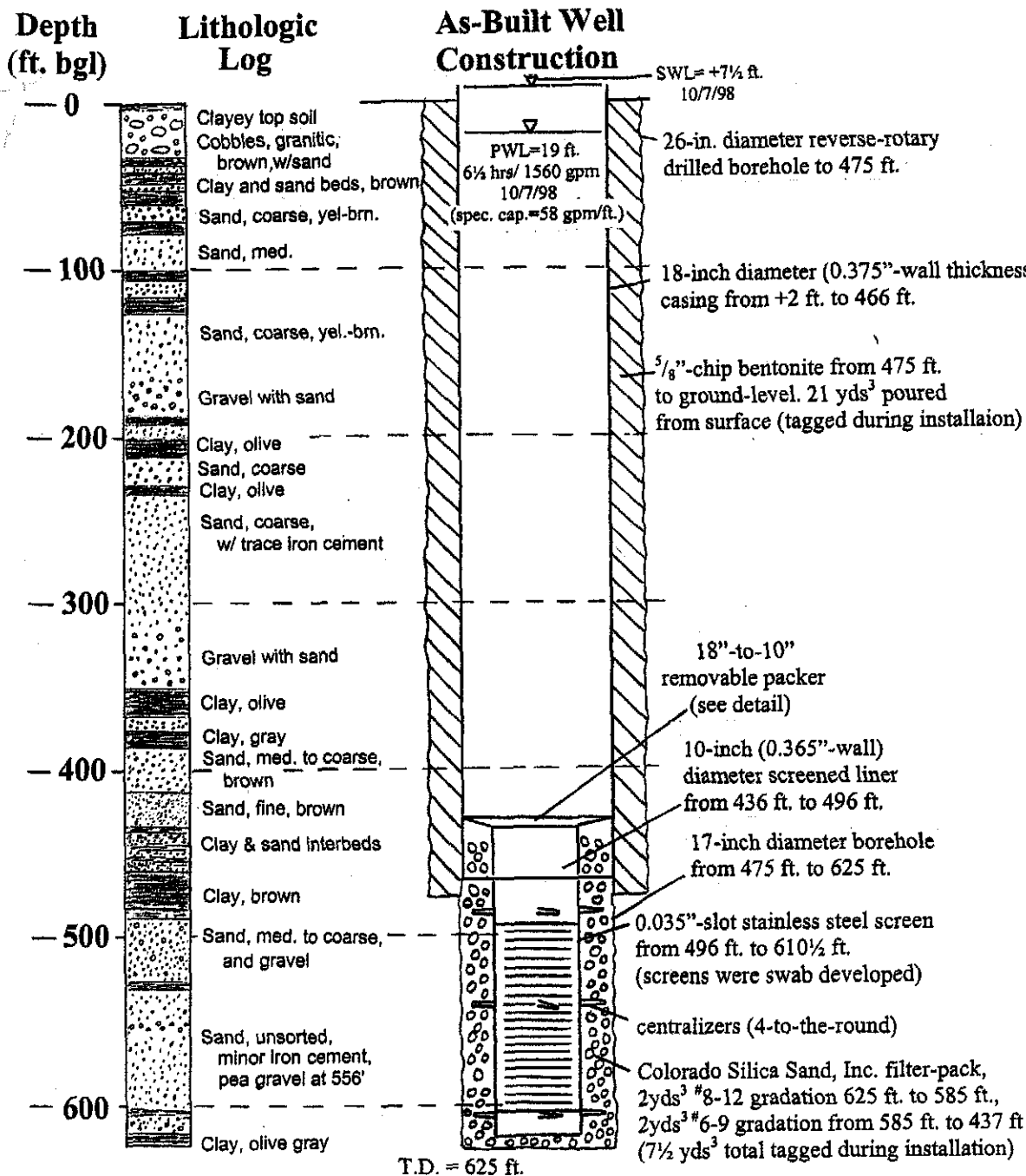
SECTION A 3/8" = 1'-0"

P-2-3

0-150 PSI PRESS. GAUGE W/ISOLATION COCK

8" FCA W/THRUST TIES, SEE (400)

Meridian #20 Supply Well SW ¼, SE ¼, SE ¼, Sec. 36, T4N, R 1W



RECEIVED

SEP 10 1997

Form 202
10/92WATER RESOURCES
WESTERN REGION

STATE OF IDAHO

Ident. No. 63-12416DEPARTMENT OF WATER RESOURCES
APPLICATION FOR PERMIT

RECEIVED

DEC 03 1997

To appropriate the public waters of the State of Idaho

DEPARTMENT OF WATER RESOURCES

1. Name of applicant City of Meridian Phone (208) 887-2211Post office address 33 E. Idaho Ave., Meridian, Idaho 836422. Source of water supply Groundwater which is a tributary of N/A3. Location of point of diversion is SW $\frac{1}{4}$ of SE $\frac{1}{4}$ of SE $\frac{1}{4}$, Govt. Lot _____Sec. 36 Township 04 North Range 01 West B.M. Ada County; additional
points of diversion if any: N/A

4. Water will be used for the following purposes:

Amount 4.50 for Municipal purposes from 1/1 to 12/31 (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)5. Total quantity to be appropriated is (a) 4.5 and/or (b) _____
cubic feet per second acre feet per annum

6. Proposed diverting works:

a. Description of ditches, flumes, pumps, headgates, etc. 2000 gallons per minute - 125 HP Turbine Pumpb. Height of storage dam N/A feet; active reservoir capacity _____ acre-feet; total
reservoir capacity _____ acre-feet; period of year when water will be diverted to storage:

_____ to _____ inclusive.

c. Proposed well diameter is 18 inches; proposed depth of well is 750 51 feet. 600-10-996d. Is ground water with a temperature of greater than 85°F being sought? NOe. If well is already drilled, when? N/A; Drilling firm _____Well was drilled for (well owner) N/A

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

Two (2) years (minimum 1 year).

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8. Description of proposed uses (if irrigation only, go to item 9):

- a. Hydropower; show total feet of head and proposed capacity in KW. N/A
- b. Stockwatering; list number and kind of livestock. N/A
- c. Municipal; show name of municipality. City Of Meridian
- d. Domestic; show number of households. 8819 residential accounts (1-31-97)
- e. Other; describe fully. 403 commercial accounts (1-31-97)

9. Description of place of use: SEE REMARKS BELOW

- a. If water is for irrigation, indicate acreage in each subdivision in the tabulation below.
- b. If water is used for other purposes, place a symbol of the use (example: D for Domestic) in the corresponding place of use below. See instructions for standard symbols.

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 _____

10. Describe any other water rights used for the same purposes as described above. 62-02893; 63-07978; 63-123;

63-09849; 63-08331; 63-08332; 63-10840; 63-11737; 63-11922; 63-12181; 63-12295

11. a. Who owns the property at the point of diversion? City of Meridian
- b. Who owns the land to be irrigated or place of use? Property Owners within the City of Meridian
- c. If the property is owned by a person other than the applicant, describe the arrangement enabling the applicant to make this filing. _____

12. Remarks: Place of use is located within the City Limits of Meridian

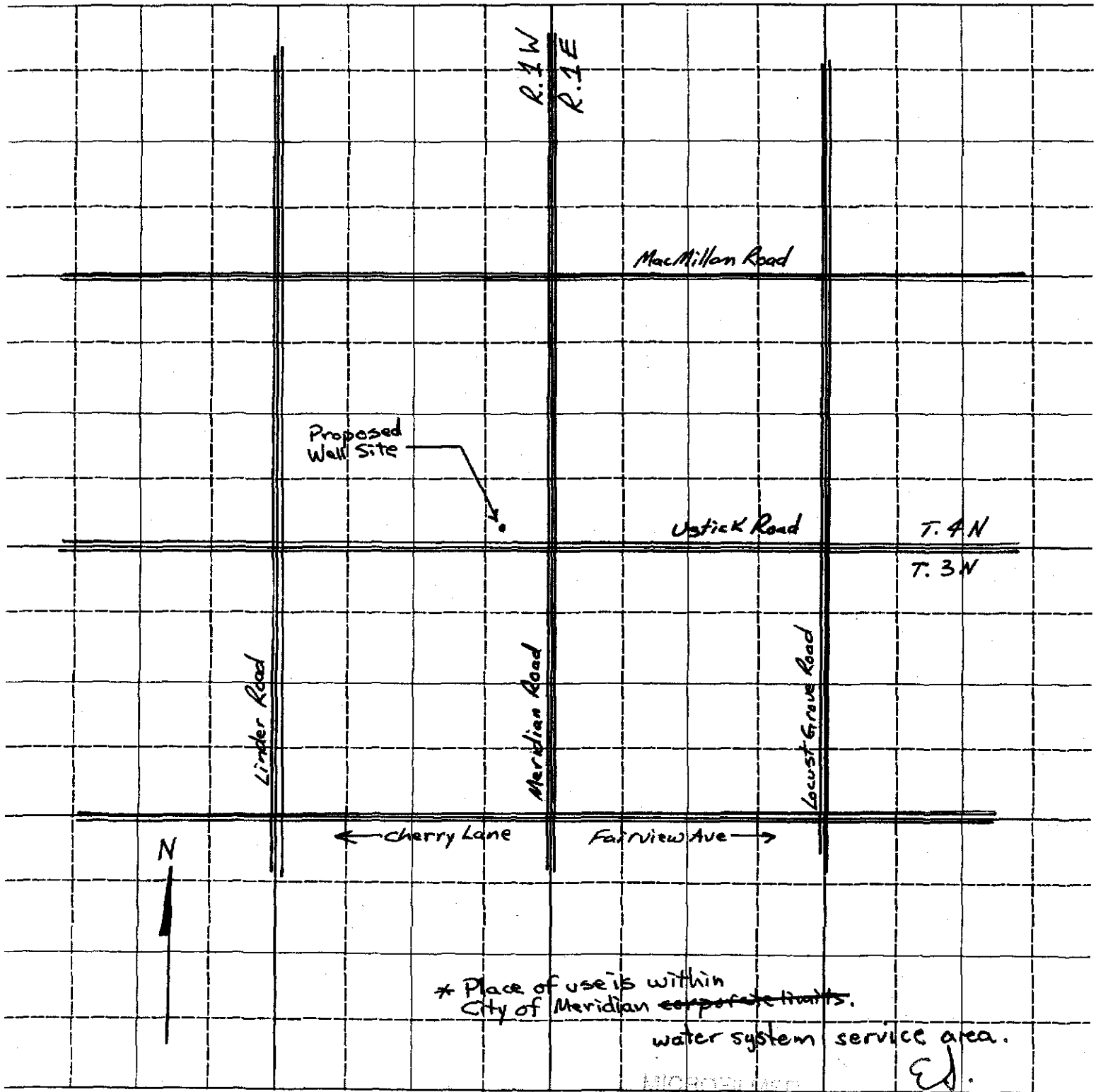
Water bearing zone to be appropriated for

Municipal use is 650-730 feet

496-996 ft. water system service area of the City of Meridian

496-996 ft. MICROFILMED

13. 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.

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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.

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NOV 11 2002

Robert D. Corrie
(Applicant)

Robert D. Corrie, Mayor

Received by DB Date 10-9-97 Time 10:50am Preliminary check by G
Fee \$ 180- Received by DB # W023049 Date 9-10-97
Publication prepared by AT Date 10-8-97 Published in Stateman
Publication approved AT Date 11-13-97
10-16 + 23-97

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. The rate of diversion, if water is to be used for irrigation under this permit, when combined with all other water rights for the same land shall not exceed 0.02 cubic feet per second for each acre of land.
- d. The water right acquired under this permit if for hydropower purposes shall be junior and subordinate to all rights to the use of water, other than hydropower, within the State of Idaho that are initiated later in time than the priority of this permit and shall not give rise to any right or claim against any future rights to the use of water, other than hydropower, within the State of Idaho initiated later in time than the priority of this permit.
- e. Other:

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State of Idaho
Department of Water Resources
Permit To Appropriate Water
NO. 63-12416

Proposed Priority: September 10, 1997 Maximum Diversion Rate: 4.50 CFS

This is to certify, that CITY OF MERIDIAN
33 E IDAHO AVE
MERIDIAN ID 83642

has applied for a permit to appropriate water from: GROUNDWATER

and a permit is APPROVED for development of water as follows:

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>RATE OF DIVERSION</u>
MUNICIPAL	01/01 to 12/31	4.50 CFS

LOCATION OF POINT(S) OF DIVERSION: SESE , Sec. 36, Township 04N, Range 01W
ADA County

PLACE OF USE: See Remarks

CONDITIONS OF APPROVAL AND REMARKS

1. Proof of construction of works and application of water to beneficial use shall be submitted on or before December 1, 1999.
2. Subject to all prior water rights.
3. Project construction shall commence within one year from the date of permit issuance and shall proceed diligently to completion unless it can be shown to the satisfaction of the Director of the Department of Water Resources that delays were due to circumstances over which permit holder had no control.
4. After specific notification by the department, the right holder shall install a suitable measuring device or shall enter into an agreement with the department to determine the amount of water diverted from power records and shall annually report the information to the department.
5. Right holder shall comply with the drilling permit requirements of Section 42-235, Idaho Code.
6. Construction of the well shall comply with Idaho well construction standards.
7. The issuance of this right does not grant any right-of-way or easement across the land of another.
8. The daily diversion volume for non-domestic uses under this municipal right shall not exceed 2,500 gallons per use and the daily diversion volume for domestic uses under this right shall not exceed 13,000 gallons per dwelling in accordance with Section 42-111, Idaho Code.
9. Irrigation of large projects such as parks, golf courses, or sports activities fields is not authorized under this right.

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State of Idaho
Department of Water Resources**Permit To Appropriate Water**

NO. 63-12416

CONDITIONS OF APPROVAL AND REMARKS

10. The irrigation occurring under this municipal use shall not exceed 1/2 acre within each platted subdivision lot upon which a home has been constructed. This right does not provide for irrigation of common areas or for irrigation of lots upon which homes have not been constructed.
11. Place of use located within the city limits of Meridian.
12. Water bearing zone to be appropriated is 650 to 730 feet.

This permit is issued pursuant to the provisions of Section 42-204, Idaho Code.
Witness the signature of the Director, affixed at Boise, this

17th day of December, 1997

Karl J. Dreher
for Karl J. Dreher, Director

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ANALYSIS SHEET FOR EXTENSION OF TIME

Permit No. 03-12416 Reviewed by Jay Date 7-21-99

BASIC INFORMATION

6-16-99 Date stamp received
yes Extension received timely
yes Fee received and receipted
yes Name and signature same as permit
no Address Change

BASIS FOR EXTENSION REQUEST

yes Has adequate work been completed to demonstrate due diligence?

_____ Has the permit been involved in litigation?
Is supporting documentation needed to complete the file? _____ Requested? _____

_____ Is delay by a government agency?
Is supporting documentation needed to complete the file? _____ Requested? _____

_____ Is the project more than 25,000 acre feet for irrigation or 10,000 acre feet for a reservoir?

ACTION TAKEN Recommend extend to Dec. 1, 2003. on basis of due diligence.

PRIORITY CALCULATION

Date extension received	_____	=	_____
Proof due date	_____	=	_____
Number of days late	_____	=	_____
Priority date	_____	=	_____
New Priority Date	_____	=	_____

DATA ENTRY

New Address X _____

Change Proof Due Date 12-1-2003

Change Priority Date V



State of Idaho

DEPARTMENT OF WATER RESOURCES

1301 North Orchard Street, P.O. Box 83720, Boise, Idaho 83720-0098

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

DIRK KEMPTHORNE
GOVERNOR

November 2, 1999

KARL J. DREHER
DIRECTOR

City of Meridian
33 E Idaho Ave
Meridian ID 83642

RE: Permit No. 63-12416

Dear Permit Holder:

I have enclosed a copy of the approved request for extension of time submitted in connection with the above referenced permit, which extends the time within which to submit proof of beneficial use to **December 1, 2003**. Please note that the department granted the extension based on due diligence. It is important that you work diligently towards completion of this project since the department **will not** be able to grant additional extension requests based on due diligence.

Section 42-248, Idaho Code, which became effective on July 1, 1996, requires you or the owner of this water right to maintain current ownership and address records on file with the department. Please contact this office or any regional office of the department for the proper form to file a change of ownership of a water right and/or a change in the address of the owner.

Please contact me at (208)327-7953, if you have any questions regarding this matter.

Sincerely,

JULIE L. YARBROUGH, Administrative Assistant
Water Allocation Bureau

Enclosure

c: IDWR - Regional Office

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NOV 12 1999



State of Idaho

DEPARTMENT OF WATER RESOURCES

1301 North Orchard Street, P.O. Box 83720, Boise, Idaho 83720-0098

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

DIRK KEMPTHORNE
GOVERNOR

KARL J. DREHER
DIRECTOR

July 22, 1999

City of Meridian
33 E Idaho Ave
Meridian ID 83642

RE: Permit No. 63-12416

Dear Permit Holder:

I am in receipt of your letter requesting an extension of time for the above referenced permit. Proof of beneficial use for this permit is not due until December 1, 1999, and the department will not consider an extension request which is submitted earlier than sixty (60) days prior to the proof due date.

The extension request will likely be approved, however the department will hold it for processing until sixty (60) days prior to December 1, 1999.

Please contact me directly at (208)327-7953 if you have any questions regarding this matter.

Sincerely,

A handwritten signature in cursive script, reading "Julie L. Yarbrough". The signature is written in dark ink and is positioned above the typed name.

JULIE L. YARBROUGH, Administrative Assistant
Water Allocation Bureau

c: IDWR - Region

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NOV 12 1999



State of Idaho

DEPARTMENT OF WATER RESOURCES

1301 North Orchard Street, P.O. BOX 83720, Boise, Idaho 83720-0098

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

PHILIP E. BATT
GOVERNOR

KARL J. DREHER
DIRECTOR

December 18, 1997

CITY OF MERIDIAN
33 E IDAHO AVE
MERIDIAN ID 83642

PERMIT APPROVAL NOTICE

RE: PERMIT NO. 63-12416

Dear Permit Holder:

The Department of Water Resources (IDWR) has issued the enclosed permit authorizing you to establish a new water right. Please be sure to thoroughly review the conditions of approval and remarks listed on your permit.

The permit is a preliminary order issued by IDWR pursuant to section 67-5243, Idaho Code. It can and will become a final order without further action by IDWR unless a party petitions for reconsideration or files an exception and/or brief as described in the enclosed information sheet.

As a permit owner you must commence the excavation or construction of the diverting works within one year of the date the permit was issued, and you must proceed diligently until the project is completed. The date shown under condition no. 1 is the date when the project must be completed.

The Department will send you a "Proof Due Notice" approximately 60 days prior to the above referenced date requesting you to file either a Proof of Beneficial Use form or a Request for Extension of Time form.

The right to drill a well is not a part of this permit to appropriate water. Beginning in July of 1987, a statute was enacted which requires a drilling permit for new well construction and deepening of existing wells. If the well(s) proposed for use under this right were drilled or deepened after July 1, 1987, a separate drilling permit must be obtained from this Department. Please contact the Groundwater Protection Section located here at this office or our regional office nearest you.

Also, please note that water right owners are required to report any change of water right ownership and/or change of mailing address to the department within 120 days of the change. ~~NOT RETURNED~~

FEB 13 1998

to report these changes could result in a \$100 late filing fee. Contact any office of the department or visit the department's homepage on the Internet to obtain the proper reporting form.

If you have any questions, please call me at 208-327-7946.

Sincerely,

A handwritten signature in cursive script, appearing to read "Shelley W. Keen".

Shelley W. Keen
Water Rights Supervisor

SK:klt

Enclosures

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FEB 13 1988

CERTIFICATE OF MAILING

I hereby certify that on the 18th day of December, 1997, I mailed a true and correct copy, postage prepaid, of the foregoing PRELIMINARY ORDER (Approved Permit) to the person(s) listed below:

Water Right No. 63-12416

CITY OF MERIDIAN
33 E IDAHO AVE
MERIDIAN ID 83642


Kari Lynn Townsend
Secretary

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FEB 13 1998

Responding to Preliminary Orders Issued by the Idaho Department of Water Resources

The Idaho Department of Water Resources (Department) issues water right permits, licenses, and transfers as preliminary orders pursuant to section 67-5243, Idaho Code. A preliminary order can and will become a final order without further action of the department unless a party petitions for reconsideration or files an exception and/or brief as further described below:

PETITION FOR RECONSIDERATION

Any party may file a petition for reconsideration of a preliminary order with the Department within fourteen (14) days of the service date of the order. The Department will act on a petition for reconsideration within twenty-one (21) days of its receipt, or the petition will be considered denied by operation of law. See section 67-5243(3), Idaho Code.

EXCEPTIONS AND BRIEFS

Within twenty-one (21) days after (a) the service date of a preliminary order, (b) the service date of a denial of a petition for reconsideration from this preliminary order, or (c) the failure within twenty-one (21) days to grant or deny a petition for reconsideration from a preliminary order, any party may in writing support or take exceptions to any part of a preliminary order and may file briefs in support of the party's position on any issue in the proceeding. Otherwise, a preliminary order will become a final order of the Department.

If any party appeals or takes exceptions to a preliminary order, opposing parties shall have twenty-one (21) days to respond to any party's appeal. Written briefs in support of or taking exceptions to the preliminary order shall be filed with the Department. The Department retains the right to review the preliminary order on its own motion.

ORAL ARGUMENT

If the Department grants a petition to review a preliminary order, the Department shall allow all parties an opportunity to file briefs in support of or taking exceptions to the preliminary order and may schedule oral argument in the matter before issuing a final order. If oral arguments are to be heard, the Department will within a reasonable time period notify each party of the place, date and hour for the argument of the case. Unless the Department orders otherwise, all oral arguments will be heard in Boise, Idaho.

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CERTIFICATE OF SERVICE

All exceptions, briefs, requests for oral argument and any other matters filed with the Department in connection with a preliminary order shall be served on all other parties to the proceedings in accordance with Rules of Procedure 302 and 303.

FINAL ORDER

The Department will issue a final order within fifty-six (56) days of receipt of the written briefs, oral argument or response to briefs, whichever is later, unless waived by the parties or for good cause shown. The Department may remand the matter for further evidentiary hearings if further factual development of the record is necessary before issuing a final order. The department will serve a copy of the final order on all parties of record.

Section 67-5246(5), Idaho Code, provides as follows:

Unless a different date is stated in a final order, the order is effective fourteen (14) days after its issuance if a party has not filed a petition for reconsideration. If a party has filed a petition for reconsideration with the agency head, the final order becomes effective when:

- (a) the petition for reconsideration is disposed of; or
- (b) the petition is deemed denied because the agency head did not dispose of the petition within twenty-one (21) days.

APPEAL OF FINAL ORDER TO DISTRICT COURT

Pursuant to sections 67-5270 and 67-5272, Idaho Code, if this preliminary order becomes final, any party aggrieved by the final order or orders previously issued in this case may appeal the final order and all previously issued orders in this case to district court by filing a petition in the district court of the county in which:

- i. A hearing was held,
- ii. The final agency action was taken,
- iii. The party seeking review of the order resides, or
- iv. The real property or personal property that was the subject of the agency action is located.

The appeal must be filed within twenty-eight (28) days of this preliminary order becoming final. See section 67-5273, Idaho Code. The filing of an appeal to district court does not itself stay the effectiveness or enforcement of the order under appeal.

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FEB 13 1998

APPLICATION FOR PERMIT STATE OFFICE REVIEW

by Cindy Lou

No.: 63-12416 Name: City of Meridian Date: 12/10/97 Ad OK? ☒ / Gvmt Lts: ☒

AREA OF CONCERN:**PROTESTED:****SYSTEM COMPLETED:**

1 year/no proof

>1 year

GROUNDWATER: (✓ FLO-CH)

WMD (✓ MAP)

>0.24 cfs/5 acres

≤ 0.24 cfs/5 acres

WMD

>0.24 cfs/5 acres

Supplemental use

≤ 0.24 cfs/5 acres

DRILLING PERMIT:

Existing well

Included w/permit

No drilling permit?

irr. in WD

SURFACE WATER: (✓ FLO-CH) (Surface water that doesn't sink is regulated):

IN/ABOVE MIN. STR. FLOW (✓ MAP)

WD (✓ MAP & LISTING)

Pumped >0.20 cfs

WMD (✓ MAP)

> 0.24 cfs/5 acres

≤ 0.24 cfs/5 acres

SPRINGS/SINK, INACTIVE WD & REST OF STATE

> 0.24 cfs/5 acres

≤ 0.24 cfs/5 acres

RIVER BASINS: (*Surface water):

Snake R (01)

(02/03-irr)

Payette R(65)

Salmon R (70's)

USE:

Domestic surface

>1 in rest. area

Fish Propagation

Heating/Cooling

Irr ≤ 5 acres

> 5 acres

Mining

Municipal

Power

Stock

Storage (✓3 compo.)

LOCATION:

42-248 area

Boise Front LoGeo

In-stream dev.

Irr Dist/Canal Co.

SWAN FALLS FLAG (See Code Chart)

Trust

Non-Trust (1)

OWNERSHIP:**OTHER CONDITIONS:****STANDARD REMARKS:****BENEFICIAL USE DUE:****COMMENTS:**

- No/Yes: _____ Mor / _____ GWMA / Trust / Non-trust

- 020 (Protest Agreement) or *W19 (Order)

- P16

- 26A P17

- 067 or No MD (in-stream stock or power)

- No MD

- 01M (report when notified)

- 065-079 (if GW use SW 1st-statewide)-(cannot move SW off)

- No MD

- NA (pre 7/1/87; ✓ WDQ3)

- Permit No. _____ - _____ - _____ - _____, P99

- 046-468 P23 (post 7/1/87)

- P05 (new well location)

- *WB9

- R04 (WD # _____) 01J-P08 (MD)

- 01H-P01 (LD & MD) or No MD (in-stream stock)

- 067 or No MD (in-stream stock or power)

- No MD

- 01M or No MD (in-stream stock or power)

- No MD

- *W22 -P04, NA

- 007 (w/ remark *WB9 if above Weiser), NA

- *W22 (regulated uses), 047-P04 (Payette Lake), NA

- 029 (fish screens), NA

- *WB5 (Big Wood R or Boise R ↑ Star Bridge); 27A (Payette River); NA

- 071-070

- 029-007-042(req)-081 (WQ)-P10

- R07 (injection well)

- R66/R67/R68/R69 (0.03 cfs/acre + 3.0/3.5/4.0/4.5 AF)

- R62/R63/R64/R65 (0.02 cfs/acre + 3.0/3.5/4.0/4.5 AF)

- 054(req) -081-P10

- 022, 075, ~~084~~ (+memo?), NA (not in restricted area)

- 17H/17K(+uses)-08A-025-01N-028-081(P10)-027 (if no other cons. use);

17G (FERC) or 17M (FERC); 18B-P09; >25 cfs-P18

- R37 (BLM/USFS); NA

- 18A (in & out MD for on-stream storage), 18B-P09 (>10' dam), NA

- P84 (in 20/30/40/50/60/70/80 (87) basin)

- 058 (<85° GW temp only)

- P52 (stream channel alteration)

- 023 (Twin Falls area)

- 051-052-053-P74 (Consumptive Uses), NA

- 048-049 (Consumptive Uses), NA

- 004 (PD/PU) Residents

- ① 070/min ② w/o

- 12/1/ ~~20~~ 1999

MEMORANDUM

DATE: December 10, 1997
TO: File No. 63-12416
FROM: Cindy Zimmerman *CJ*
RE: Status of municipal use

Section 42-202(2) of the Idaho Code states that "an application proposing an appropriation of water by a municipal provider for reasonably anticipated future needs" must be accompanied by documentation related to the service area, planning horizon, etc.

The applicant has requested a development period of two years. The additional flow provided under this right is anticipated to be utilized in less than 10 years. Therefore, this permit should not be interpreted as authorizing an appropriation for reasonably anticipated future needs.

<Because this application does not include any of the special documentation, nor does it indicate in any way that it proposes an appropriation for reasonably anticipated future needs, it should not at any time be interpreted as such.>

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FEB 13 1998

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
APPROPRIATION APPLICATION ANALYSIS SHEET

RECEIVED
DEC 03 1997
DEPARTMENT OF WATER RESOURCES

INITIAL REVIEW BY: ly DATE: 9/29/97 APPLICATION: 63-12416

REQUIRED INFORMATION

- ☒ Name: (If applicant is a corporation or partnership, names and addresses for the director, officers, and other partners must be included.)
- ☒ Address:
- ☒ Source: (See USGS Quad for names of water sources)
- ☒ Point of Diversion: (10 acres for spring, lot & block descriptions for Subdivisions, local name)
- ☒ County:
- ☒ Quantity: (flow and/or volume)
- ☒ Period of use:
- ☒ Nature of proposed use: (Include description of use)
- ☒ Description of diverting works:
- ☒ Time required for beneficial use of water:
- ☒ Place of use or acres irrigated:
- ☒ Map: (show T, R, S, QQ &/or QQQ)
- ☒ Subdivision plat: (for > 1 home in restricted area. $\geq$ 5 homes in non-restricted area)
- ☒ Signature: (If applicant is corp., partnership, or municipality, title of signatory is required)
- ☒ Fee:
- ☒ Yes ☐ No* In form to receipt:
- Gov't. Lots:
☒ P/D
☒ P/U

ADDITIONAL INFORMATION

YES NO

- ☒ ☐ Overlapping place of use: (Describe source & relationship to present application on next page.)
- ☒ ☒ Overlapping point of diversion.
- ☒ ☒ Critical groundwater area:
- ☒ ☒ Groundwater management area:
- ☒ ☒ 1992 moratorium:
- ☒ ☒ Copy to SCA staff: (perennial stream, non-pump diversion &/or any mining).
- ☒ ☒ Copy to Dam Safety staff: (for any storage)
- ☒ ☒ Mitigation plan: where ground water replaces surface water for irrigation, request additional information &/or mitigation plan to address reduced aquifer recharge
- ☒ ☒ Send power requirement letter:
- ☒ ☒ Send fish farm requirement letter:
- ☒ ☒ Power residency affidavit:
- ☒ ☒ Diversion greater than 5 cfs or 500 af or irrigation greater than 200 acres: (If yes, attach Large Diversion supplementary analysis sheet.)

*REQUEST ADDITIONAL INFORMATION FROM THE APPLICANT

Water bearing zone per tele.com

DATE REQUESTED 9/17/97

ADDITIONAL INFORMATION ON REVERSE SIDE:

PROCESSING

APP. NO.

63-12416

YES NO

☒ ☐ In form for advertising:
☐ ☒ Statewide advertising: (> 10 cfs &/or 1000 af)
☒ ☐ Fee amount, receipt number and date recorded on application:

SEND COPIES TO:

YES NO

☒ ☐ I.D. Health & Welfare
☐ ☒ I.D. District Health
☐ ☒ I.D. Fish & Game
☐ ☒ I.D. Lands
☐ ☒ Adjudication Bureau

YES NO

☐ ☒ U.S. BLM
☐ ☒ U.S. Forest Service
☐ ☒ Water Dist. # _____
☐ ☒ Other _____

FINAL REGIONAL PROCESSING REVIEW:

YES NO

☒ ☐ Affidavit of publication received:
☒ ☐ Application published correctly: If not, record action taken.

☒ ☐ Publication dates and paper recorded on application:
☐ ☒ Protests received. Final date for protest 11-3-97
☐ ☒ Protest dates, resolution of protest recorded on application:
☐ ☒ Recommendations attached:
☐ ☒ Measuring device required:
☐ ☒ Measuring port required:
☐ ☒ Water delivered by water master? District # _____
☐ ☐ Special conditions of approval or cover letter: 022, 070, 075

See below for additional information

Recommended Date or Priority

9/10/97

Recommended by: Day S

Date:

11/28/97

STATE OFFICE REVIEW

See below for additional information. By

Date

ADDITIONAL INFORMATION:

The Idaho Statesman

P.O. BOX 40, BOISE, IDAHO 83707-0040

LEGAL ADVERTISING INVOICE

Amount Due

\$46.56

Account Number/Trans. #		Identification	
047628		NOTICE OF APPLICATION FOR WATER RIGHT	
Ordered By	P.O. Number	Rate	Run Dates
SUE TAYLOR		NT	OCTOBER 16, 23, 1997
STATE OF IDAHO DEPARTMENT OF WATER RESOURCES WESTERN REGION 2735 AIRPORT WAY BOISE, ID 83705-5082		Estimated Inches	Real Inches
		# Affidavits	Legal Number
		1	8801

LEGAL NOTICE NOTICE OF APPLICATION FOR WATER RIGHT

The Following application(s) have been filed to appropriate the public waters of the State of Idaho:

63-12416

CITY OF MERIDIAN
33 E IDAHO AVE
MERIDIAN, ID 83642

Source: GROUNDWATER

Diversion Pt: SWSESE

Sec 36 T 04N R 01W in ADA County
Use: MUNICIPAL (4,500 CFS)
Total Diversion: (4,500 CFS)

Date Filed: 9/10/1997

Water bearing zone to be appropriated for municipal use is 650 to 730 feet.

Permits will be subject to all prior water rights. Protests may be submitted based on the criteria of Sec. 42-203A, Idaho Code. Any protest against the approval of this application must be filed with the Director, Dept. of Water Resources, Western Region, 2735 Airport Way, Boise, Idaho 83705 together with a protest fee of \$25.00 on or before NOVEMBER 3, 1997. The protestant must also send a copy of the protest to the applicant.

Pub. October 16 & 23, 1997

8801

JANICE HILDRETH

, being duly sworn, deposes and says: That she is the Principal Clerk of The Idaho Statesman, a daily newspaper printed and published at Boise, Ada County, State of Idaho, and having a general circulation therein and which said newspaper has been continuously and uninterruptedly published in said County during a period of twelve consecutive months prior to the first publication of the notice, a copy of which is attached hereto; that said notice was published in The Idaho Statesman in conformity with Section 60-108, Idaho Code as amended, for TWO

☒ consecutive weekly

☐ single

☐ consecutive daily

☐ odd skip

insertion(s) beginning with the issue of

OCTOBER 16, 1997

and ending with the issue of

OCTOBER 23, 1997

Janice Hildreth

STATE OF IDAHO)

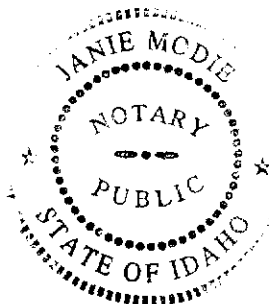
ss.

COUNTY OF ADA)

RECEIVED

OCT 24 1997

WATER RESOURCES
WESTERN REGION



On this 23RD day of OCTOBER in the year of 1997, before me, a Notary Public, personally appeared

JANICE HILDRETH

known or identified

to me to be the person whose name subscribed to the within instrument, and being by me first duly sworn, declared that the statements therein are true, and acknowledged to me that she executed the same.

MICROFILMED

Notary Public for Idaho

Residing at:

Boise, Idaho

My commission expires:

5/03



State of Idaho

DEPARTMENT OF WATER RESOURCES

Western Region, 2735 Airport Way, Boise, Idaho 83705-5082 - (208) 334-2190

FAX (208) 334-2348

October 16, 1997

PHILIP E. BATT
GOVERNOR

KARL J. DREHER
DIRECTOR

ID DEPT OF HEALTH & WELFARE
DIV OF ENV QUALITY
BOISE REGIONAL OFFICE
PO BOX 83720
BOISE ID 83706

Re: Application for Permit No. 63-12416 in the Name of City of Meridian

Dear Sir:

Enclosed is a copy of the above-referenced application for permit which may be of interest to your agency. Please review the application and submit any comments you may have.

This office normally completes the processing of an application within a six-week period and is required to take final action shortly thereafter, however, if your agency desires to file a formal protest against the approval of this application(s), your written protest along with the \$25.00 protest fee must be received in this office by November 3, 1997.

If you have any questions regarding the application, please contact this office.

Sincerely,


Gary Spackman

GS:st

Encl.

MICROFILMED

FEB 13 1998



State of Idaho

DEPARTMENT OF WATER RESOURCES

Western Region, 2735 Airport Way, Boise, Idaho 83705-5082 - (208) 334-2190
FAX (208) 334-2348

PHILIP E. BATT
GOVERNOR

KARL J. DREHER
DIRECTOR

OCTOBER 8, 1997

Legal Notices Department
THE IDAHO STATESMAN
PO BOX 40
BOISE, ID 83707

Dear Legal Dept.:

Enclosed you will find a legal notice which we wish to have published on the dates indicated (once a week for two consecutive weekly issues) in your newspaper. 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. Your cooperation is appreciated.

Please send the affidavit of publication and publication billing to this office before NOVEMBER 3, 1997.

Yours truly,

SUE TAYLOR
Secretary/Office Coordinator

Encl.

63-12416

CITY OF MERIDIAN
33 E IDAHO AVE
MERIDIAN, ID 83642

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FEB 13 1998

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KARL J. DREHER, Director

Published: 10/16/1997 & 10/23/1997

UNRECORDED

FEB 13 1998