

1. Considered: _____, 19____ Water Right No. 4964-3
2. Name of Applicant Childrens Home Society
3. Post Office Address 3209 S. Prairie Ave. Sioux Falls, SD.
4. Amount of Water Claimed .07 cfs maximum acre feet _____
5. Source of Water Supply Groundwater
6. Water to be used for Geothermal & recreation ^{& Institutional} ~~acres to be irrigated~~
7. County Minnehaha about 1 miles E of Sioux Falls
8. PROOF OF PUBLICATION: Received 1st Aug. 2, 1983 Not Received _____
- APPLICATION: Approved 10-5-83 Subject to Well interference
- Not Approved _____ Action Deferred _____

PRIORITY
6-3-83

Dated Received 6-3-83 Application complete-yes _____ no X FEE \$50.00

Remarks Complete application received 6-10-83 includes dam as secondary use. (location notice for dam #34802)

Corrected Application received 6-10-83 Period of Annual Use CONTINUOUS

WATER
QUALITY

Received yes _____ no _____ APPROVED/CONDITIONAL (Circle one)

WI-1 Description same as application-yes _____ no _____ Remarks _____

Disapproved _____ Returned _____

					X
				14	

Diversion Point NE4 NE4 sec 14-101N-49W

Land to be irrigated _____

WELL LOG

Driller Dave Putzke Licensed - yes X no _____

Depth 228 FT

Remarks Water will be run thru heat pumps and the put in dam to be used for recreation and therapy.

Therapy includes wading, ice skating, fishing & other water activities.

MAP Map No. 4964-3 Map located in Water Right _____ Map file _____
 Type of Map Blue print plat Prepared by Koch-Hazard & Ass.

+++++

REVIEWED This Application was received within 30 days of the date received, accepted as complete, Number assigned and written up for advertisement before the Board on:

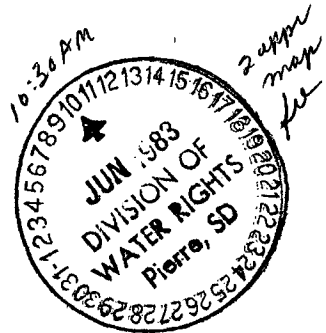
July 19, 1983

Kevin C. Larson
 (Signed)

+++++

PROTESTS Letters/Petitions in File - yes _____ no _____ Remarks _____

REMARKS Date
 F.F. & C. Final Decision, including F.F. & C. of Law were adopted _____
 OF LAW, Date
 FINAL Final Decision mailed to parties and/or parties notified that Final Decision was
 DECISIONS adopted _____
 ETC. Remarks _____

No. 4964-3Map No. 4964-3 Water Division No. 3 Sioux River District
Above for Office Use 10170203

APPLICATION FOR PERMIT To Appropriate Water within the State of South Dakota

Check one of the following:

New ☒ Vested Right _____ Future Use _____

Change in Diversion _____ Additional Diversion _____

Change in Acreage _____ Additional Acreage _____

1. Name of Applicant Children's Home Society Phone No. (605) 334-6004
 Post Office Address 3209 So. Prairie Ave., Sioux Falls State South Dakota 57105
(Street, RR, or Box) (Town) (Zip Code)
 If a corporation show date and place of incorporation 1895, Sioux Falls, SD

2. Method of accomplishing work (contract, employment of others, or by direct labor) Contract3. Name of diversion work Well4. Amount of water claimed (cubic feet per second) one (1) 30 gpm (.07cfs)5. Source of water supply Underground Aquifer

6. Location of point of diversion Tract 2 of Richmond Estates, an addition to the city of Sioux Falls, Minnehaha County, South Dakota located in the N $\frac{1}{2}$ of the NE $\frac{1}{4}$ of Section 14 and the S $\frac{1}{2}$ of the SE $\frac{1}{4}$ of Section 11, all in Township 101 North, Range 49 West of the 5th Principal Meridian, containing 27.46 acres County Minnehaha

7. Annual period or periods during which water is to be used year round8. Use to be made of water, (irrigation, industrial, municipal, commercial, ^{Recreational/}recreation, etc.) Institutional & Geothermal *gh*

9. For irrigation use, Total number of acres to be irrigated _____

List below each forty acre subdivision, or lot, or fraction thereof and show number of acres to be irrigated in each.

Land Description	No. Acres Irr.	Land Description	No. Acres Irr.

Attach sheet if more space is needed

10. Time required to complete construction of water supply system one (1) years. Additional time required to complete application of water to the proposed beneficial use N/A years.

11. Choice of county newspaper for publication of Notice of Intent to Appropriate Water Argus Leader

12. Principal Features of the Proposed Water Supply System.

A. Works proposed to divert water from its natural source.

Well

B. Works proposed to transport water to place of use.

Piping

C. Works proposed to apply water to beneficial use.

Heat Pumps (see location notice #34802 attached)Estimated Total Cost \$ 5,000.00

Attachments: Attach Form 2A if diversion from a well or dugout, or if storage of water, is proposed. Attach map.
 (see instructions concerning preparation.)

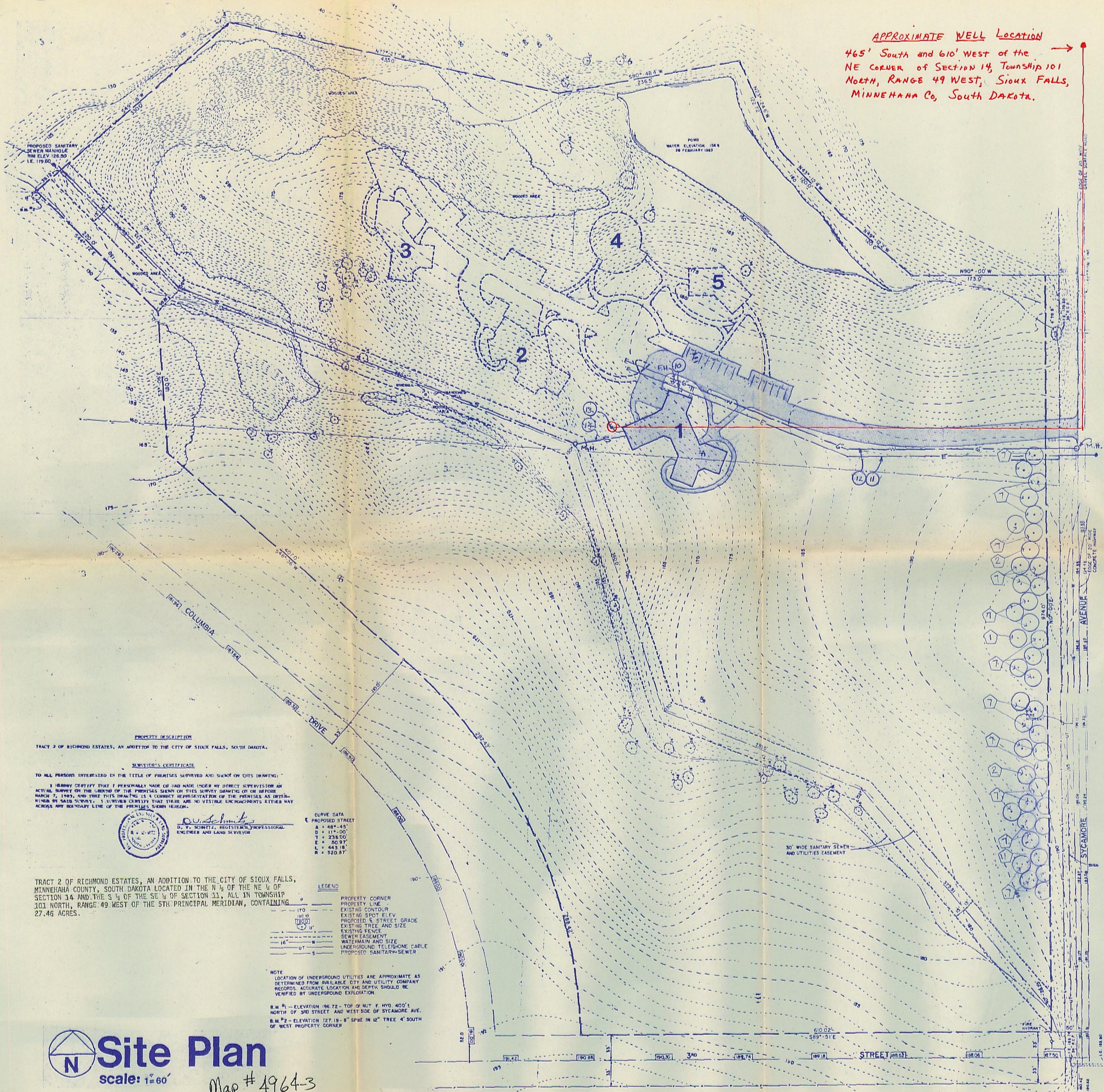
STATE OF SOUTH DAKOTA)
) ss.
 County of Minnehaha)

I, David H. Wright the applicant, certify that I have read the foregoing application and have examined the attached map and that the matters therein stated are true and that I intend, and am able to complete the necessary construction.

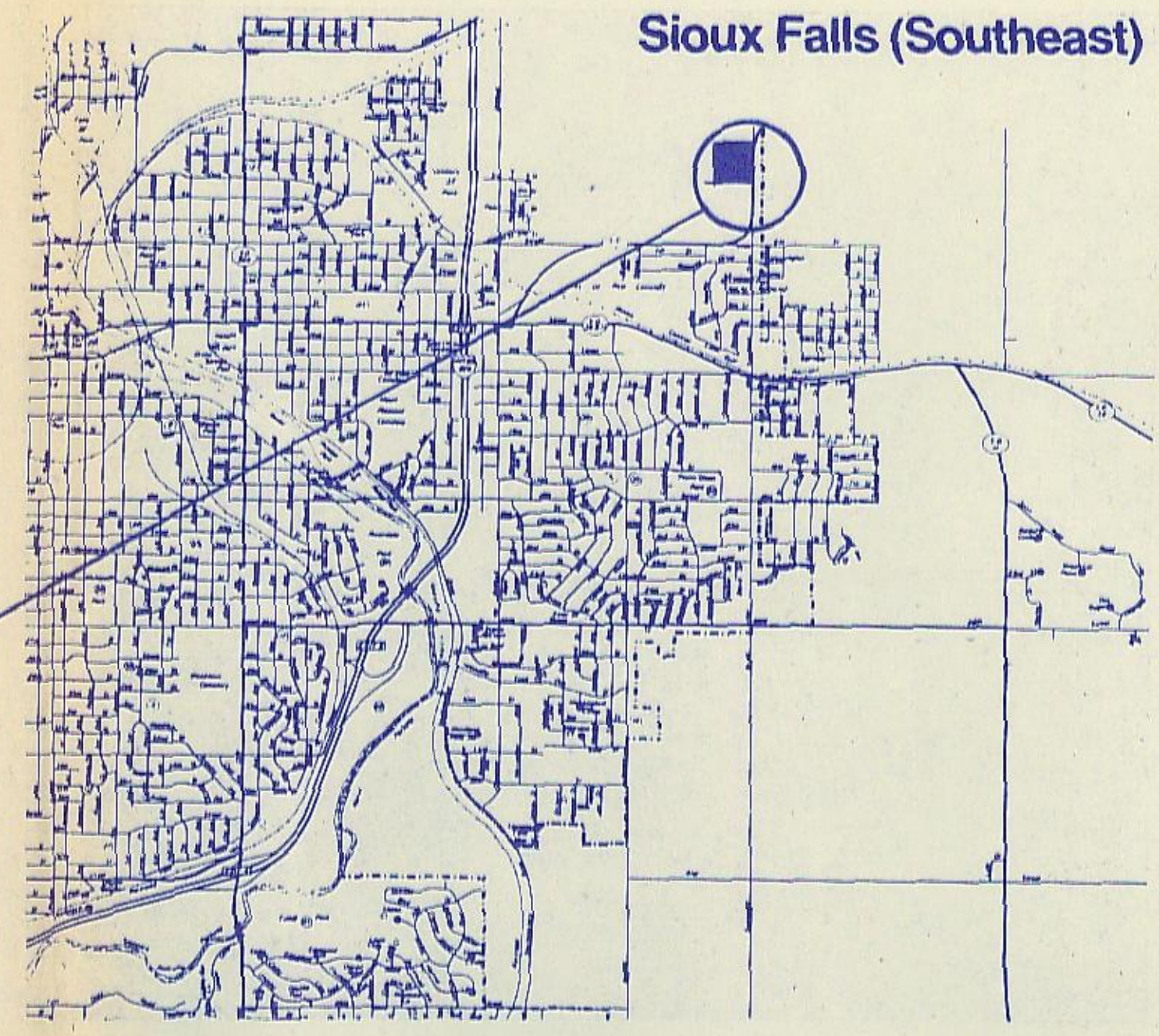
Signed David H. WrightSubscribed and sworn to before me this 9 day of June, 19 83Shirley Boyer

Notary Public (or other qualified officer)

SHIRLEY BOYER, Notary Public
 My Commission Expires May 8, 1988



APPROXIMATE WELL LOCATION
465' South and 610' West of the
NE CORNER of SECTION 14, Township 101
North, Range 49 West, SIOUX FALLS,
MINNEHABA Co, South DAKOTA.



Vicinity Map

notes

1. Green Ash (seedless) 2" caliper
Fraxinus pennsylvanica lanceolata
"Marshall" #44
 2. Common Hackberry 2" caliper
Celtis occidentalis
 7. Russian Olive 2-1/2" caliper
Elaeagnus angustifolia
- Note: Group A to be small 1" caliper
with multi-trunks
All BB except those too small
9. Dwarf Pfitzer Juniper
Juniperus chinensis pfitzeriana
compacta 18" 4'-0" o.c.
 10. Electrical transformer
 11. Underground electrical service
 12. New 6" water service
 13. NEW WELL
 14. New sanitary sewer service

Key of Buildings

1. CROSSROADS (See sheets 4 and 5 for size)
2. Future sherrard (5101 S.F. each of 2 levels
garage 707 S.F.)
3. Future Long Term Living (4740 S.F. each of
two levels - Garage 675 S.F.)
4. Future School (5000 S.F.)
5. Future Administration (3045 S.F.)

WATER RIGHT APPLICATION APPROVAL

The Water Management Board hereby approves Water Right Application No. 4964-3

Children's Home Society

3209 So. Prairie Ave., Sioux Falls

(Applicant)

(Post Office Address)

South Dakota

(State)

With the following qualifications.

The well approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner, under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in wells having prior water rights.

Date of first receipt of application June 3, 1983

Date of return to applicant for correction, amendments or changes required June 4, 1983

Date of receipt of corrected application June 10, 1983

Approved October 5, 1983, Recorded in Book — Page —

WATER RIGHT PERMIT NO. 4964-3

The Water Management Board hereby grants and issues this Water Right Permit No. 4964-3 authorizing the construction of the water use system and the putting of water to beneficial use as stated in the Application and as qualified in the Water Right Application approval, subject, however, to the following limitations and conditions:

1. The date from which applicant may claim right is June 3, 1983
2. The equivalent of at least one-fifth of the work above specified is to be completed on or before January 5, 1986
3. The whole of said work is to be completed on or before October 5, 1988
4. The limit of time from proof of beneficial use of water appropriated in accordance herewith is October 5, 1992
5. The water appropriated shall be used for the purpose of Geothermal, recreation & institutional

6. The prior right of all persons who, by compliance with the laws of the State of South Dakota, have acquired a right to the use of water must not be injuriously affected by this appropriation.

7. The amount of the appropriation herein granted shall not exceed 0.07 cubic feet per second; neither shall it exceed the capacity of the above described water supply system, nor shall it exceed the amount of water needed for beneficial uses served, and ~~it for irrigation purposes said appropriation must be limited to not more than 2 acre feet per acre per year and be limited to not more than one-seventieth (1/70) of one cubic foot of water per second of time for each acre of land to which water is actually and beneficially applied~~

for irrigation on or before October 5, 1992; said water to be used during the following described

annual period: January 1 thru December 31

Witness my hand this 25th day of October, 1983

THE WATER MANAGEMENT BOARD

By: John K. H. H.
Chief Engineer, Water Rights

Certificate of Construction Issued _____, 19____

Water License Issued _____, 19____

D. Well Information

- (1) Drill Hole, Diameter 8", Depth 238'
- (2) Casing, Type PVC (wood, concrete, steel, etc.), Diameter 5", Thickness 3/16"
- (3) Screen, Type Plastic, Diameter 5", Length 10' ±
- (4) Gravel Pack, Thickness As required, Length of gravel pack 38'

E. Dugout Information or Estimates

- (1) Surface dimensions, N/A, Depth N/A

F. Fill out for Either a Well or a Dugout.

- (1) Water Bearing Materials. (Attach a copy of test well log) - Not available at this time.

Depth to top of water bearing material 200'

Depth to bottom of water bearing material 238'

Depth to water (ground surface to water level) Unknown at this time.

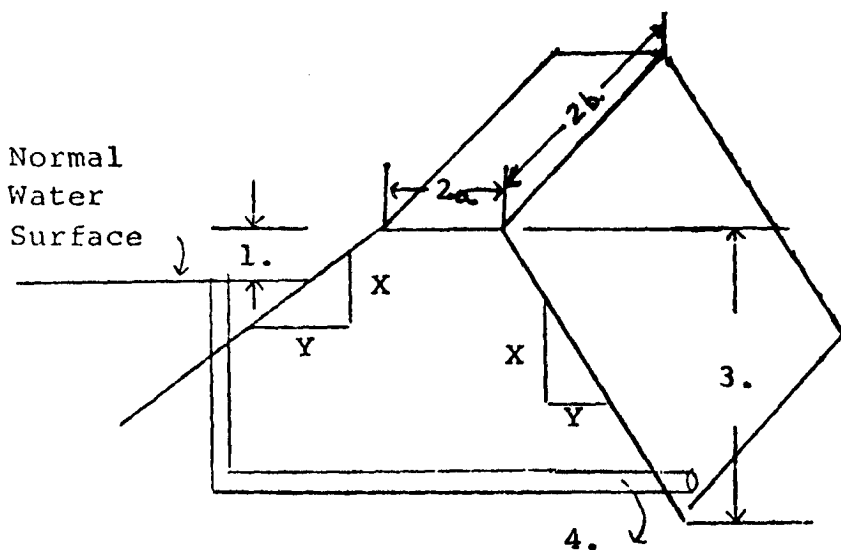
- (2) Distance to nearest existing household or livestock watering well.

On same owner's property None rds.

On property owned by others Unknown rds.

G. Water Storage Dams

If the proposed water use system contains one or more water storage dams, please show in the space below, the height, length, maximum water depth, surface area, drainage area, storage capacity, dam slope, dimensions, location and size of outlet works, of each storage dam. The location of each water storage dam should be shown on the water right map.



1. Freeboard _____

2a Crest width _____ b. length 190 ft.

3. Height of Dam approx. 8 ft.

4. Outlet dimensions:

Pipe diameter _____

Spillway width _____

X & Y slope:

Upstream _____

Downstream _____

Surface area of impoundment

0.8 acres

Drainage area above dam

approx. 65 acres

Location Notice No. 34802 of H
Storage 3.2 A.F.

[Signature]
Signature of Applicant

5/27/83 Smith & Forme requesting a permit

PLEASE COMPLETE
ENTIRE FORM

WELL DRILLERS REPORT
Division of Water Rights
Department of Water & Natural Resources

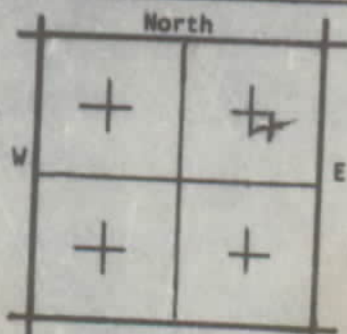
6/60

Well Owner:
Name Chilhowee Home Society

Address 3209 S. Prairie
Sioux Falls S.D.

Well Location: North

Mark location
with an "X"



County Minnehaha Tract 2 of Richmond
Sec. 10 Twp. 101 Rg. 49

Proposed Use: Geothermal well
☐ Domestic ☐ Municipal ☐ Test Holes
☐ Irrigation ☐ Industrial ☐ Stock

Method of Drilling:
☒ Forward Rotary ☐ Bored ☐ Jetted
☐ Reverse Rotary ☐ Cable ☐ Other

Well Construction: 200lb Plastic
Diameter of Hole 5" pipe - 8 3/4" drill bdr
Depth 211'

Casing ☐ Steel ☐ Concrete
☒ Plastic ☐ Other
If other, specify _____

Was casing end left open NO
Was a well screen installed NO

Describe Well Screen
Diameter _____ Material _____
Slot size _____

Was well gravel packed YES
Was well grouted YES
Was water sample taken NO

Remarks: 17' of Perforation. 250lb
Plastic 30 slot size
Drilled 7-25'

Water Level Information:
Static water level 175' below land surface
If flowing: closed in pressure _____ PSI
rate of flow _____ GPM
Controlled by:
☐ Valve ☐ Reducers ☐ Other
If other; specify _____

Well Test Data: Draw down 10" - at 30 g.p.m.
24 hrs
☐ Pumped
☒ Bailed Describe: Bailed 3 hrs at
12 g.p.m.
☐ Other

Pumping Level Below Land Surface
200' ft. After 24 Hrs. pumped 30 GPM
" " " " " " " " " " " "

Well Log:

Formation	Depth	
	From	To
<u>Top Soil</u>	<u>0</u>	<u>2</u>
<u>yellow clay</u>	<u>2</u>	<u>43</u>
<u>grayish clay</u>	<u>43</u>	<u>58</u>
<u>Blue clay</u>	<u>58</u>	<u>179</u>
<u>fine gray sand</u>	<u>179</u>	<u>182</u>
<u>blue gravel</u>	<u>182</u>	<u>211</u>
<u>fine sand mix of clay</u>	<u>211</u>	<u>218</u>



Date Completed: 5-11-83

Driller: Smith & Forme License NO. 489
Driller's or Firm's Name

Sioux Falls S.D.
Address

Dave Smith 5-24-83
Signed By Date

PLEASE COMPLETE
ENTIRE FORM

WELL DRILLERS REPORT
Division of Water Rights
Department of Water & Natural Resources

6/60

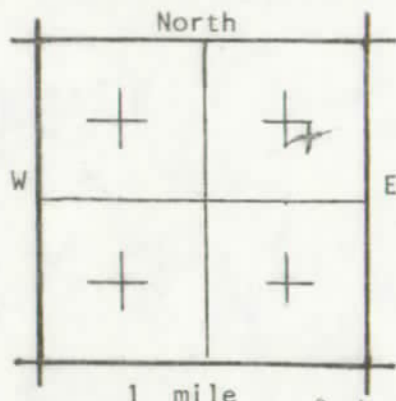
Well Owner:

Name Childress Home Society

Address 3209 S. Prairie
Sioux Falls S.D.

Well Location:

Mark location
with an "X"



County Minnehaha Tract 2 of Richmond Estates
Wood Ridge Manor Book 44 Page 49
Sec. 1 Twp. 2 Rg. 4

Proposed Use:

☐ Domestic ☐ Municipal ☐ Test Holes
☐ Irrigation ☐ Industrial ☐ Stock

Method of Drilling:

☒ Forward Rotary ☐ Bored ☐ Jetted
☐ Reverse Rotary ☐ Cable ☐ Other

Well Construction:

Diameter of Hole 5" pipe - 8 3/4" drill hole

Depth 211'

Casing ☐ Steel ☐ Concrete

☒ Plastic ☐ Other

If other, specify _____

Was casing end left open NO

Was a well screen installed NO

Describe Well Screen

Diameter _____ Material _____

Slot size _____

Was well gravel packed yes

Was well grouted yes

Was water sample taken NO

Remarks:

17' OF Perforation, 250lb
plastic 30 slot size
Grouted 7'-25'

Water Level Information:

Static water level 175' below land surface

If flowing: closed in pressure _____ PSI
rate of flow _____ GPM

Controlled by:

☐ Valve ☐ Reducers ☐ Other

If other; specify _____

Well Test Data:

draw down 10" - at 30 g.p.m.
24 hrs

☐ Pumped

☒ Bailed

☐ Other

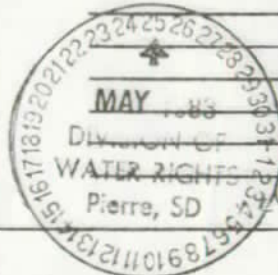
Describe: Bailed 3 hrs at
12 g.p.m.

Pumping Level Below Land Surface

200' ft. After 24 Hrs. pumped 30 GPM
" " " " " "
" " " " " "

Well Log:

Formation	Depth	
	From	To
<u>TOP Soil</u>	<u>0</u>	<u>2</u>
<u>yellow clay</u>	<u>2</u>	<u>43</u>
<u>brownish clay</u>	<u>43</u>	<u>58</u>
<u>Blue clay</u>	<u>58</u>	<u>179</u>
<u>Fine gray Sand</u>	<u>179</u>	<u>192</u>
<u>blue gravel</u>	<u>192</u>	<u>218</u>
<u>Fine sand mix of clay</u>	<u>211</u>	<u>218</u>



(Use Back if Necessary)

Date Completed:

5-11-83

Driller:

Dave Puffer well Drilling
Driller's or Firm's Name

439
License NO.

Sioux Falls S.D.
Address

Dave Puffer
Signed By

5-24-83
Date

LEGAL DESCRIPTION--SEE BACK

LEGAL DESCRIPTION

Tract 2 of Richmond Estates, an addition to the city of Sioux Falls, Minnehaha County, South Dakota located in the N $\frac{1}{2}$ of the NE $\frac{1}{4}$ of Section 14 and the S $\frac{1}{2}$ of the SE $\frac{1}{4}$ of Section 11, all in Township 101 North, Range 49 West of the 5th Principal Meridian, containing 27.46 acres.

Phone 334-6385

FIELD REPORT OF TEST HOLE

Name of Job Ch. Iron Home Society Test Hole No. 1
Address 3209 E. Prairie Depth 728'
Sioux Falls S.Dak Date 5-5-83

[illegible]

Size of Pit: Length _____ ft. Width _____ ft. Depth _____ ft.
 Static Water Level _____ ft. below ground level. Diameter of well _____ in.
 Was well pumped _____ Yield _____ g.p.m. Water sample _____
 Depth of Screen setting _____ ft. Size of gravel used _____

Date 5-24-83

Driller

RECEIPT

WATER RIGHTS COMMISSION

State of South Dakota

No 4 9271

PIERRE, June 15, 1983

RECEIVED OF Children's Home Society, 3209 S. Prairie Ave. Sioux Falls, SD 57105

the following amount in fees for services rendered as provided for by law:

Fee for Application for Permit to Appropriate Water No. 4964-3 (examination, processing, recording and filing)	50	00
Fee for inspecting Construction, and issuing Cert. of Construction No.		
Fee for inspecting Beneficial Use, and issuing Water License No.		
Fee for issuing Location Certificate-Dry Draw, No.		
Fee for filing		
Fee for certified copy of		
Fee for Print copy of map		
Fee for Certifying		
Fee for (any other work as provided by law)		
TOTAL	50	00

WATER RIGHTS COMMISSION

By John Hatch
Chief Engineer, Executive Officer

JOHN HATCH/ms

Water Rights Division
605 773-3352

May 6, 1983

David Wright, Executive Director
Childrens Home Society
3209 S Prairie Ave
Sioux Falls SD 57105

Dear Mr. Wright:

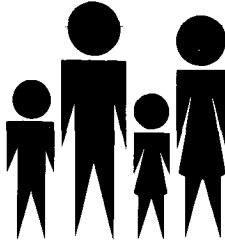
I am enclosing the necessary application forms for your proposed geothermal well and your existing well in the Black Hills. When you return the application forms for the geothermal well please include any engineering studies or data concerning the project. The application for geothermal wells that have been approved to date all have a qualification that there be a secondary use of the water if the water is not reinjected. Reinjection is very feasible if you are pumping out of a sand & gravel aquifer in your area. However, if the well is completed into the quartzite reinjection becomes very difficult and many times unfeasible. As of this date we are handling these on a case by case basis. If you have any further questions, please contact this office.

Thank you,

KEVIN C LARSON
Water Resources Engineer

KCL:ks

enclosures



Serving Children and
Families for 90 years
David H. Wright, A.C.S.W.
Executive Director

CHILDREN'S HOME SOCIETY

(also known as South Dakota Children's Home Society)

ADMINISTRATIVE OFFICE

3209 So. Prairie Ave.

CROSSROADS CENTER

1000 West 28th St.

EAST RIVER SCHOOL

1000 West 28th St.

WEST RIVER CHILDREN'S CENTER

Keystone Rt., Box 7801

WEST RIVER SCHOOL

Keystone Rt., Box 7801

SHERRARD CENTER

918 West 10th St.

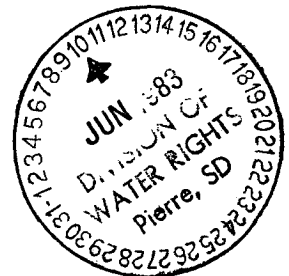
TRY HOUSE CENTER

409 So. Fourth St.

- Sioux Falls, South Dakota 57105 • (605)334-6005
- Sioux Falls, South Dakota 57105 • (605)336-1313
- Sioux Falls, South Dakota 57105 • (605)335-8925
- Rapid City, South Dakota 57701 • (605)343-5422
- Rapid City, South Dakota 57701 • (605)343-5422
- Sioux Falls, South Dakota 57104 • (605)335-8880
- Marshall, Minnesota 56258 • (507)532-9609

June 9, 1983

Ms. Betty Westlund
Water Rights Specialist
S.D. Dept. of Water & Natural Resources
Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501



Dear Betty:

RE: WATER RIGHTS APPLICATION

As per your letter of June 8, 1983 and subsequent phone conversation with Bob Hazard on June 9, 1983, please find enclosed application, supporting documents and application fee of \$150.00.

The following is a response, item by item, from your June 8, 1983 correspondence:

- Item #1 - Purposes of Institutional use.
- Item #2 - The map now shows the more exact legal description.
Map shows location of well from nearest corner section.
No irrigation.
- Item #3 - Exact legal description on application (#6) and well drillers log.
- Item #4 - Not applicable.
- Item #5 - Engineering plans enclosed.
- Item #6 - Filing fee of \$150.00 enclosed.

Relative to secondary usage of the water, it should be noted that after primary usage of a geothermal well for heating the building purposes, the water will be piped to a large pond on our property. The pond will be used for recreational purposes as part of therapeutic activity planning for the children served, as follows:

1. Wading

BOARD OF DIRECTORS

Mark Swanson, President
Kris Egger, Vice President
Tom Johnson, Secretary
Jack Marshman, Treasurer
Robert Hazard, Associate Treasurer

Tam Baker
Vincent Baumgartner
Pat Ferrell
Judy Hamilton

Carole Hillard
Tom Houle
Mary Jordan
John Kittelson

Deanna Lien
John McGreevy
Evans Nord
Gary Pashby

John Rozell
Tom Shelby
Dennis Stene
Grace Highley, Honorary Director

2. Fishing (to be stocked)
3. Ice skating
4. Other water activities

The above usage is a vital component of our treatment planning for the kinds of children we serve.

I hope this cover letter and enclosures are complete to your satisfaction. Please contact me promptly if there are other concerns which we need to address.

Thank you for your prompt attention to these matters.

Sincerely,

A handwritten signature in cursive script that reads "David H. Wright". There is a small "bp" written below the signature.

David H. Wright, A.C.S.W.
Executive Director

bp

cc: Bob Hazard
Enclosures



CHILDREN'S HOME SOCIETY

DAVID P. LOVING, EXECUTIVE DIRECTOR

CHILDREN'S HOME SOCIETY
ANNOUNCES NEW AGENCY IDENTIFIER AND CAMPUS NAMES

The CHS Board has approved a new corporate graphic identification system for the agency. The identifier consists of a line image of founder Elizabeth Sherrard. Her image is a powerful reminder of the CHS mission which is to serve and protect children.

Name changes for Children's Home Society's two campuses have been announced by Board President, Michael Billion.

The West River Children's Center, located 16 miles west of Rapid City, has been renamed The Black Hills Children's Home while CHS' East River School, the Crossroads residence and management facilities will be known as the Sioux Falls Children's Home. The Sioux Falls campus is on North Sycamore on the east edge of Sioux Falls.

Billion said, "The new names better describe our geographic area of service while retaining our historical roots. Our state-wide umbrella organization will continue to be known as Children's Home Society."

All services including residential, educational, management, foster care, and home based therapy can now be reached at a single address or phone number at each campus. Those addresses and phone numbers are listed below:

Black Hills Children's Home
HC 33, Box 7801
Rapid City, SD 57701-9215
(605) 343-5422

Sioux Falls Children's Home
801 North Sycamore Ave.
Sioux Falls, SD 57103-6602
(605) 334-6004

For further information contact:

John Thomas
Development Director
334-6004 (SF)
348-8280 (RC)

Conversation or File Documentation

NAME OF PERSON OR FILE: South Dakota Childrens Home Society
ADDRESS: Sioux Falls COUNTY Minnehaha
DATE: June 10, 1983 TELEPHONE 336-3718 (Bob Hazard)
RE: Permit Application

COMMENTS:

Received a call from Bob Hazard and David Wright concerning the permit app. for Childrens Home Society. They are very concerned about the delay in handling the app. I asked them about the one cfs they requested. That was an error. It should only be 30 gpm. I told them we would change that here. They are also going to send in a check for \$50⁰⁰ and we will return their check for \$150⁰⁰.

The dam should probably be included in this application.

File in Permit or other file as necessary. Use to document conversations and what the other party was told; why action or decision was made.

NAME:

Kevin C. Larson

REPORT ON WATER PERMIT APPLICATION NO. 4964-3

Childrens Home Society

July 18, 1983

Water Permit Application No. 4964-3 requests 0.07 cfs from one 211 foot deep well for institutional and geothermal heating purposes within the city limits of Sioux Falls in Minnehaha County. The project will be located in the NE $\frac{1}{4}$ Section 14, T101N, R49W. The applicant proposes to discharge water from the heating system into a 3.2 acre foot storage dam approximately 350 feet north of the proposed well. Water stored in the dam will be used for recreational purposes by the School as part of the therapeutic activity planned for the children served. The dam is located on property owned by the Children's Home Society.

Discussion

The proposed water source for this project is an aquifer that has not been named or delineated by the U.S. Geological Survey. The driller's log submitted with the application is similar to the log of Water Right observation Well No. MA-80BA, which is located approximately 1 mile east of the proposed well. Water level records from MA-80BA do not indicate that the water level is being drawn down in this area.

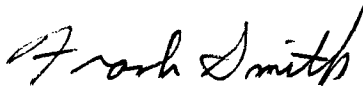
One Water Right in the area, No. 686-3, is for a 0.11 cfs well for use by the Cactus Heights Country Club. The log of this well indicates that it may be in the same formation as the proposed well. The distance between the two well sites is approximately 3400 feet. Considering the low pumping rate of the Cactus Heights well, it is unlikely that an interference problem will result from developing the proposed 0.07 cfs well.

Conclusions

1. Unappropriated water is available for Water Permit Application No. 4964-3.
2. The proposed well will not interfere with any existing Water Rights or domestic use of water.
3. Application No. 4964-3 is a beneficial use of water and is in the public interest.

Recommendation

The Water Rights Staff recommends that Water Permit Application No. 4964-3 be approved with the well interference qualification.

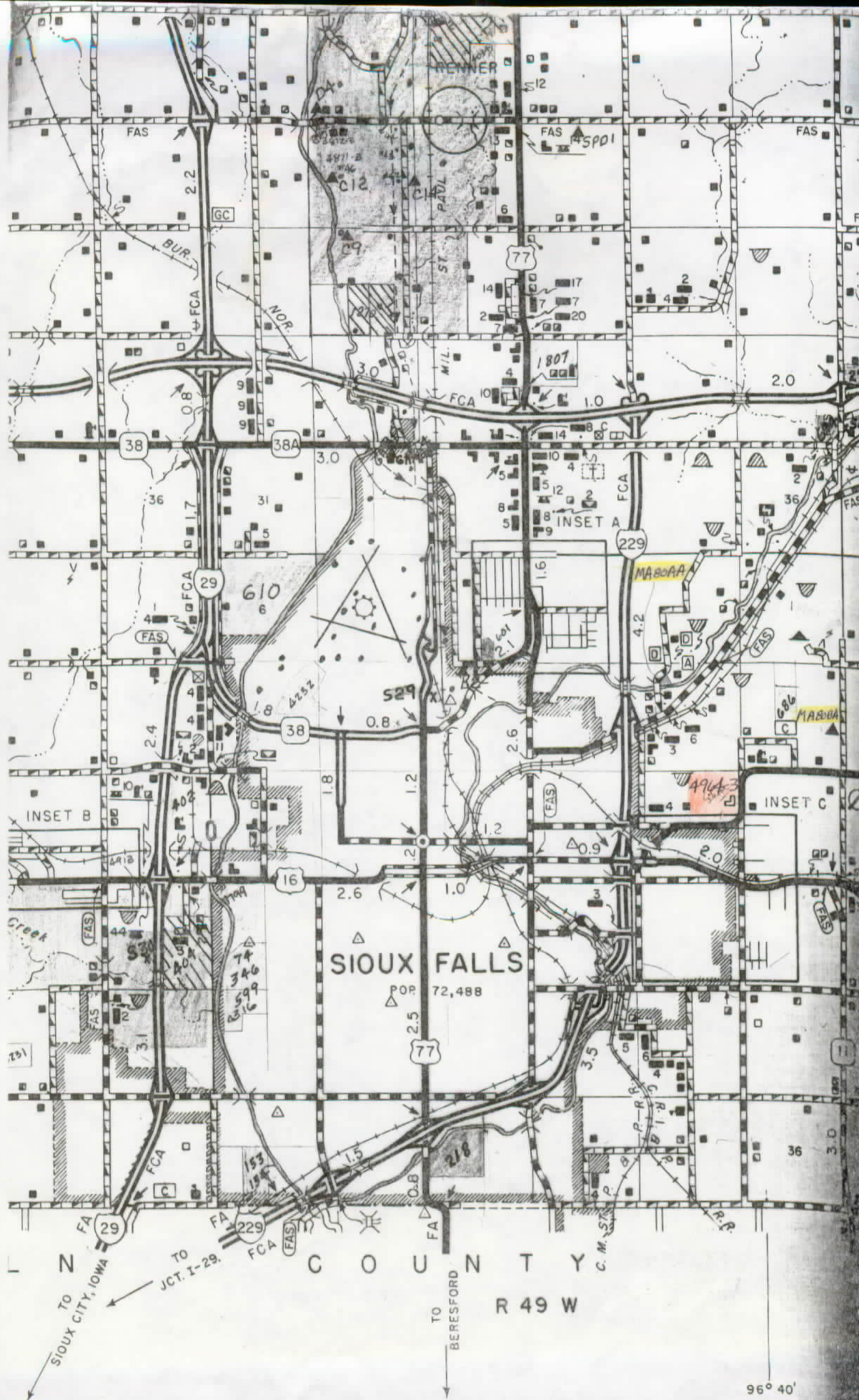


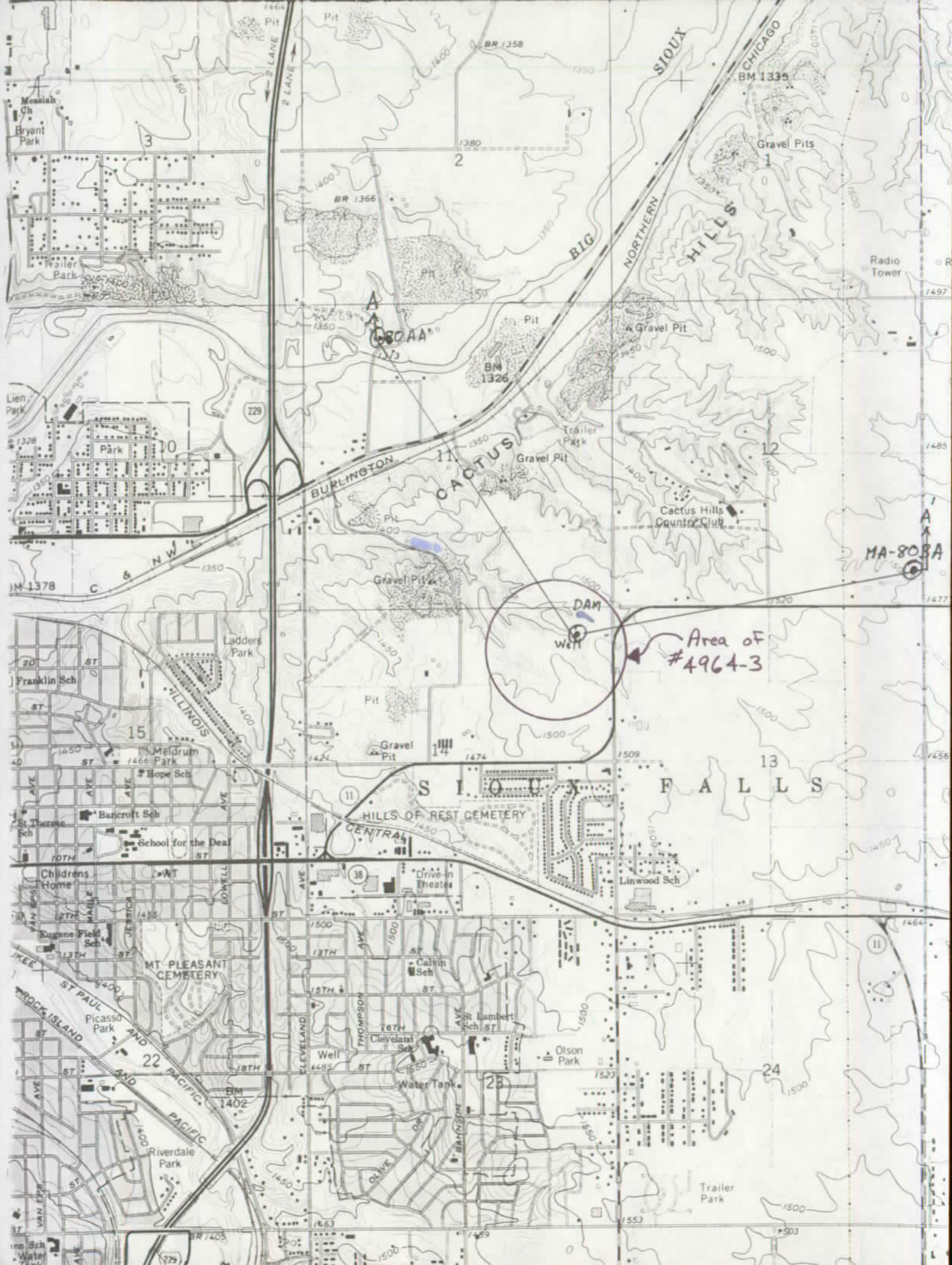
FRANK SMITH

Water Resources Engineer

References

1. Water Rights Files, SD Dept of Water & Natural Resources, Div. of Water Rights, Pierre SD 1983.
2. Observation well files, Div. of Water Rights, Pierre SD 1983.
3. Hedges, Burch, Isles, Barari and Schoon, "Evaluation of Ground Water Resources Eastern South Dakota and Upper Big Sioux River, South Dakota and Iowa", Dept. of Water & Natural Resources, Office of Geological Survey, Vermillion, SD, 1982.





Hydrograph MA-80 BA

180

190

200

Static Water Level, FT.



J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D
1980 1981 1982 1983

RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION No. 4964-3, Childrens Home Society

Pursuant to SDCL 46-2A-2, the following is the recommendation of the Chief Engineer, Water Rights Division, Department of Water and Natural Resources concerning Water Permit Application No. 4964-3, Childrens Home Society, 3209 South Prairie Ave, Sioux Falls, SD.

The Chief Engineer is recommending APPROVAL of Application No. 4964-3 because 1) there is reasonable probability that there is unappropriated water available for the applicant's proposed use, 2) that the proposed diversion can be developed without unlawful impairment of existing rights, 3) that the proposed use is a beneficial use and 4) in the public interest with the following qualification:

The well approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner, under this Permit, shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in wells having prior water rights.

The attached report is a part of this recommendation.



JOHN HATCH, Chief Engineer
July 18, 1983

Instructions to Newspaper - Publish first publication of following Notice on or before
July 25, 1983 with 2nd publication 1 week later. The applicant is responsible for payment.

NOTICE of HEARING on Application No. 4964-3 to Appropriate Water
 and/or to Amend Water Permit or Water Right No. _____

Notice is hereby given that Children's Home Society whose mailing address is 3209 S. PRAIRIE Ave., Sioux Falls, South Dakota has made an application pursuant to the provisions of SDCL 46-1-1 thru 46-1-9, 46-1-12 thru 46-1-14, Section 13 of HB 1001 enacted by 1983 Legislature; 46-2-3.1, 46-2-9, 46-2-11, 46-2-13, Section 32 of HB 1001; 46-5-1 thru 46-5-8, 46-5-10, thru 46-5-16, 46-5-24, 46-5-25, 46-5-31, Sections 38, 47, 59 & 67 of HB 1001, Sections 1, 4, 5, 6, 11, 12, 13, 16, 18, 19 & 21 of HB 1002; (ground) 46-6-3, 46-6-3.1, 46-6-6.1, 46-6-10, 46-6-13, 46-6-14; (future use) 46-5-38 thru 46-5-40, Section 71 of HB 1001; (transfer lands) 46-5-33 thru 46-5-35, (10,000 AFA) 46-5-20.1, 46-5-8.1; and Board Rules ARSD 74:02:01:01 thru 74:02:01:15; (future use) 74:02:01:24 thru 74:02:01:26, (10,000 AFA) 74:02:01:15:02 thru 74:02:01:15:05; (several of the preceding SDCL Sections are amended by HB 1001 & 1002 of 1983 Legislature) for a permit to appropriate .07 cubic feet per second from groundwater (one 211 foot deep well) for geothermal use with discharge water stored in one existing 3.2 acre foot storage dam to be used for recreational purposes. The location of the dam is and the well will be in the NE $\frac{1}{4}$ NE $\frac{1}{4}$, Section 14-T101N-R49W.

SDCL 46-2A-2

Pursuant to ~~Section 4 of HB 1002~~ the Chief Engineer of the Water Rights Division recommends -
Approval of Application No. 4964-3 because 1) unappropriated water is available, 2) will be no unlawful impairment of existing rights, 3) is beneficial use of water and 4) is in the public interest.

This application will be considered by the Water Management Board at Civil Defense Room Basement, State Capitol Bldg., Pierre, SD ~~upstairs~~ on ~~the~~ day of October 5, 1983 at 10:00 am.

The recommendation of the Chief Engineer is not final or binding upon the Board and the Board is authorized to make a determination on this application after it reaches a conclusion based upon facts presented at the public hearing. Any interested person who may be affected by a Board decision and who intends to participate in the hearing before the Board and present evidence or cross-examine witnesses according to SDCL 1-26, must file a written petition with the Chief Engineer and the Applicant by September 23, 1983. The petition may be informal, but it must include a statement describing the petitioner's interest in the application, the reason for the petitioner's opposition to or support of the application, and the signature and mailing address of the petitioner or his legal counsel if legal counsel is obtained. The applicant need not file a petition. The time of the hearing will be automatically extended for at least twenty days upon written request of the applicant or any person who has filed a petition to oppose or support the application. The request for extension must be filed with the Chief Engineer by September 23, 1983.

This hearing is an adversary proceeding. The applicant or any person, after filing a petition, has the right to be present or to be represented by a lawyer. These and other due process rights will be forfeited if they are not exercised. Decisions of the Board may be appealed to the Circuit Court and the State Supreme Court as provided by law.

Any person wishing a copy of the Chief Engineer's recommendation, further information on this application or to assure access to the hearing by the handicapped can contact the Water Right Division, DWNR, Joe Foss Bldg., Pierre SD (605 773-3352) for assistance prior to the hearing date.

Form 8 - Proof of Publication - Notice of
Intent to Appropriate Water

No. 4964-3

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
County Minnehaha) ss.

I, Roxy Deutscher hereby

certify that the annexed printed copy of Notice of Intent to Appropriate
Water was taken from the Argus Leader

A newspaper which during the whole time of publication of said notice
herein after stated, has been and is printed and published in the _____

City Sioux Falls of _____

County of Minnehaha and State of South Dakota;
that the said notice was published in said newspaper on the following
two dates:

July 25, 1983

August 1, 1983

+ Roxy Deutscher
(Signature)

Controller

(Title)

August 1, 1983

(Date Signed)

Karen Walker
Notary Public

Cost of Printing: 17 3/4" @ \$4.08/inch = \$72.42

17 3/4" @ \$4.08/inch = \$72.42

creational purposes. The location of the dam and the well will be in the NE 1/4 NE 1/4, Section 14-T101N-R49W.

Pursuant to SDCL 46-2A-2 the Chief Engineer of the Water Rights Division recommends Approval of Application No. 4964-3 because 1) unappropriated water is available, 2) will be no unlawful impairment of existing rights, 3) is beneficial use of water and 4) is in the public interest.

This application will be considered by the Water Management Board at Civil Defense Room Basement, State Capitol Bldg., Pierre, SD, October 5, 1983, at 10:00 a.m.

The recommendation of the Chief Engineer is not final or binding upon the Board and the Board is authorized to make a determination on this application after it reaches a conclusion based upon facts presented at the public hearing. Any interested person who may be affected by a Board decision and who intends to participate in the hearing before the Board and present evidence or cross-examine witnesses according to SDCL 1-26, must file a written petition with the Chief Engineer and the Applicant by September 23, 1983.

The petition may be informal, but it must include a statement describing the petitioner's interest in the application, the reason for the petitioner's opposition to or support of the application, and the signature and mailing address of the petitioner or his legal counsel if legal counsel is obtained. The applicant need not file a petition. The time of the hearing will be automatically extended for at least twenty days upon written request of the applicant or any person who has filed a petition to oppose or support the application. The request for extension must be filed with the Chief Engineer by September 23, 1983.

This hearing is an adversary proceeding. The applicant or any person, after filing a petition, has the right to be present or to be represented by a lawyer. These and other due process rights will be forfeited if they are not exercised. Decisions of the Board may be appealed to the Circuit court and the State Supreme Court as provided by law.

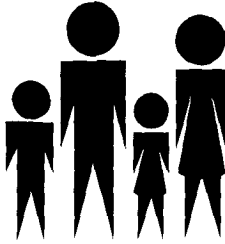
Any person wishing a copy of the Chief Engineer's recommendation, further information on this application or to assure access to the hearing by the handicapped can contact the Water Rights Division, DWNR, Joe Foss Bldg., Pierre, SD (605/773-3352) for assistance prior to the hearing date.

138 July 25 & Aug. 1, 1983

Miscellaneous

WNR 806-3/83
WP or WR No. 4964-3
NOTICE OF HEARING
on Application No. 4964-3
to Appropriate Water
Notice is hereby given that Children's Home Society, whose mailing address is 3209 S. Prairie Avenue, Sioux Falls, South Dakota, has made an application pursuant to the provisions of SDCL 46-1-1 thru 46-1-9, 46-1-12 thru 46-1-14, Section 13 of HB 1001 enacted by 1983 Legislature; 46-2-3.1, 46-2-9, 46-2-11, 46-2-13, Section 32 of HB 1001; 46-5-1 thru 46-5-8, 46-5-10, 46-5-16, 46-5-24, 46-5-25, 46-5-31, Sections 38, 47, 59 & 67 of HB 1001, Sections 1, 4, 5, 6, 11, 12, 13, 16, 18, 19 & 21 of HB 1002; 46-6-3, 46-6-3.1, 46-6-6.1, 46-6-10, 46-6-13, 46-6-14; and Board Rules ARSD 74:02:01:01 thru 74:02:01:15 (several of the preceding SDCL Sections are amended by HB 1001 & 1002 of 1983 Legislature) for a permit to appropriate .07 cubic feet per second from groundwater (one 211 foot deep well) for geothermal use with discharge water stored in one existing 3.2 acre foot storage dam to be used for re-





Serving Children and
Families for 91 years

David H. Wright, A.C.S.W.
Executive Director

CHILDREN'S HOME SOCIETY OF SOUTH DAKOTA

ADMINISTRATIVE OFFICE

3209 So. Prairie Ave.
CROSSROADS CENTER
801 No. Sycamore Ave.
EAST RIVER SCHOOL
1000 West 28th St.
WEST RIVER CHILDREN'S CENTER
Keystone Rt., Box 7801
WEST RIVER SCHOOL
Keystone Rt., Box 7801
TRY HOUSE CENTER
409 So. Fourth St.

- Sioux Falls, South Dakota 57105 • (605)334-6005
- Sioux Falls, South Dakota 57103 • (605)336-1313
- Sioux Falls, South Dakota 57105 • (605)335-8925
- Rapid City, South Dakota 57701 • (605)343-5422
- Rapid City, South Dakota 57701 • (605)343-5422
- Marshall, Minnesota 56258 • (507)532-9609

October 24, 1984

Mr. John Hatch, Chief Engineer
Water Rights Division
S. D. Department of Water & Natural Resources
Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501



Dear Mr. Hatch:

Re: Water Permit No. 4964-3

This is to acknowledge our telephone conversation of October 23, 1984, relative to completion of Form 10, Notice of Completion of Works and Application of Water to Beneficial Use.

From your suggestions, it is my understanding that I postpone submission of Form 10 until such time that our second new building (school) is constructed and operational. This will be well within the five (5) year construction period. Then, Form 10 can be submitted, an inspection can be scheduled and a Water License issued.

I appreciate your assistance in this matter; and if you have further suggestions, please advise.

Sincerely,

David H. Wright
Executive Director

bp

cc: Bob Hazard, Koch Hazard Associates
Mike Rush, Program Director, Crossroads Center
Jim Foy, Engineer, Fritzel Kroeger, Griffin & Berg

BOARD OF DIRECTORS

Jack Marshman, President
Carole Hillard, Vice-President
John Rozell, Treasurer
Tam Baker, Secretary
Vincent Baumgartner

Col. Richard Beringson
Mike Billion
Kris Egger
James Emery

Tom Johnson
Jerre Jordahl
Mary Jordan
John Kittelson

Deanna Lien
Chuck Mandsager
Dean Mann
Linda Mickelson

Julie Munson
Evans Nord
Steve Sanford
Tom Shelby
Grace Highley, Honorary Director



Department of Water & Natural Resources

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501

4964-3

October 25, 1983

Children's Home Society
3209 S. Prairie Avenue
Sioux Falls, South Dakota 57105

Dear Sir:

Enclosed herewith is your Water Permit No. 4964-3 as approved by the Water Management Board authorizing you to construct your water diversion system and the water to beneficial use, not exceeding the limits as specified in said Water Permit No. 4964-3.

Also enclosed is Form 10, Notice of Completion of Works and Application of Water to Beneficial Use, which you are to complete and submit to the Chief Engineer when you have completed the system and/or have put the water to beneficial use. An inspection can then be scheduled so that your Water License may be issued to you, thus completing your acquisition of a Water Right.

Very truly yours,

JOHN HATCH, Chief Engineer
Water Rights Division

JH: ms

enclosure

PLEASE NOTE: Certain changes can be made in your permit within the five year construction period, usually without affecting the priority date provided an application to amend your permit is made within the five year period-i.e. changes in location or number of diversion points (wells) or location of land to be irrigated. Well locations for wells into the same aquifer can be moved up to 660 feet without application.

Applications to amend a permit after the five year construction period will be assigned a new priority date. Applications to change water sources, to add lands or increase original diversion rates, if approved will usually receive the date of the new application as a priority date regardless of the five year construction period.

WNR-809-5/83

Permit No. 4964-3

Big Sioux River Water District

Report Of Examination Of Works And/Or Application of Water To Beneficial Use

TO: Chief Engineer, Division of Water Rights, DENR, Foss Bldg., Pierre, SD 57501

I have this day made a thorough examination of the water use system constructed by Children's Home Society of 801 N. Sycamore, Sioux Falls, SD 57103-6650 holder of Permit No. 4964-3, bearing the priority of June 3, 1983 authorizing the diversion of 0.07 cu. ft. per second and/or the storage of 3.2 acre-feet of the waters of unnamed aquifer for institutional, geothermal and recreational purposes, in Minnehaha County.

I have to report on the conditions of the same as follows:

A. Works used to divert the water:

One well - 211' deep with 194' of 5" plastic casing and 17' of 5" plastic screen .030 slot-size, Goulds model 25 EL 30412, 25 stage pump, 25 GPM @ 40-60 PSI; Franklin Motor Model No. unknown, 3 HP; Dam - height to crest - 8 feet, height to primary spillway -6 feet (primary spillway consists of semicircular plastic piping), crest width - 5 feet, crest length - 190 feet, spillway length - 60 feet, spillway width - 3 feet, approximate storage - 2.5 acre-feet, approximate storage to crest of dam - 3.2 acre-feet, date constructed - 1983, name of contractor - N/A, no outlet tubes, Category of dam - N/A

B. Works used to transport water to place of use:

150 ' of 1.25" 160lb jet stream plastic

C. Works used to apply water to beneficial use:

Water pumped to geothermal heating system with heat pump and then released into dam for recreational and institutional purposes.

The system is in the following condition good. The point of diversion is located 600' West and 460' South of the NE corner of Section 14-T101N-R49W. The works are capable of diverting and conveying to the place of use 0.06 cu. ft. per second of water and/or storing 3.2 acre-feet of water which is to be used for geothermal, institutional and

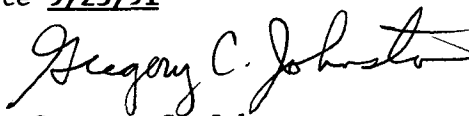
recreational purposes. Water has been put to beneficial use to the maximum extent as follows:

0.06 GPM for geothermal heating, institutional and recreational uses at Children's Home Society containing 27.46 acres located in Tract 2 of Richmond Estates, located in the N1/2 NE1/4 of Section 14 and S1/2 SE1/4 of Section 11 both in T101N-R49W, Minnehaha County

and the license should be issued for 0.06 cfs and/or 3.2 acre-feet of storage. Applicable permit qualifications have been complied with ☒ Yes No

Exceptions to compliance are: None

Date 9/25/91



Gregory C. Johnston
Natural Resources Engineer
DENR, Water Rights Division

LICENSE FOR PERMIT NUMBER 4964-3

1. Legal location of wells: 600' West and 460' South of the NE corner of Section 14-T101N-R49W, Minnehaha County, SD

Dams and Structures 255' West and 300' South of the NE corner of Section 14-T101N-R49W, Minnehaha County, SD

2. Well Information: Well Drilling Firm Putzke Well Drilling

Completion Report? Yes X No No. of Wells 1 Depth(s) 211' feet

Casing a) diameter 5 inches Screen a) type plastic .030 slot

b) length 194 feet b) length 17 feet

c) type 200 lb plastic Static Water Level 175 feet

Pump a) make Goulds Motor a) make Franklin

b) model 25 EL 30412 b) model no. Unknown

c) size unknown c) horsepower rating 3

d) capacity 25 GPM d) serial no. unknown

e) turbine pump - no. of stages 25

f) operating PSI 40-60

3. Distribution lines or canals

a) size 1.25 inches

b) type 160 lb jet stream plastic

c) length 150 feet

4. Dam Information:

a) height to crest 8 feet

m) Outlet tubes:

b) height to primary spillway 6 feet

N/A

c) Height to secondary spillway N/A feet

d) crest width 5 feet

n) Category of Dam N/A

- e) crest length 190 feet
- f) spillway length 60 feet
- g) spillway width 3 feet (spillway consists of semi-circular plastic piping)
- h) approximate storage 2.5 acre-feet
- i) approximate storage to crest 3.2 acre-feet
- j) date constructed 1983
- k) inspection sheet completed (Y/N)? N
- l) name of contractor N/A

5. System Type a) geothermal heating system

150' of 1.25" line to geothermal pump and then water is released into dam where it is used for recreational purposes.

NOTE: For Permits with additional wells or changes in well locations,

record the following for each well: pumping capacity, date constructed, well driller and if a well log is available.

Indicate any other permit(s) which are associated with project None

Yes	No	Check Items
<u>N/A</u>		1. Soil and water permit lands agree with lands being irrigated and lands listed on permit?
<u>X</u>		2. Special qualifications to permit being abided by?
<u>X</u>		3. All structures, wells and lands on map?
<u>N/A</u>		4. Irrigation Questionnaires checked to determine if permit owner started irrigation by end of construction period?
<u>N/A</u>		5. Is chemigation used?
<u>N/A</u>		6. If yes, does equipment comply with chemigation rules?

REMARKS:



LICENSE FOR PERMIT NUMBER _____

1. Legal location of wells: 11/7/91 PAT: THIS IS ALL THE INFORMATION
PUTZKE HAS.

dams & structures: _____

2. Well Information: Well Drilling Firm _____

Putzke Drilling
10/26/91
Don Baltzen

Completion Report Yes OK No _____ No. of Wells 1 Depth 218'

Casing a) diameter 5" Screen a) type _____b) length 218 b) length _____c) type PVC Static Water Level _____

Pump a) make Goulds Motor a) make Franklin

b) model 25 EL 30412 b) model No. _____c) size _____ c) horsepower rating 3HPd) capacity 25 gpme) turbine pump - no. of stages 25f) operating PSI 40-60

3. Distribution lines or canals _____

a) size 1 1/4" general pipe descriptionb) type 160 LB Hot Stream Plasticc) length 150 ft.

4. Dam Information:

a) height to crest _____ m) Outlet tubes:

b) height to primary spillway _____ 1) diameter _____

c) height to secondary spillway _____ 2) type _____

d) crest width _____ 3) valved (Y/N) _____

e) crest length _____ 4) valve type _____

f) spillway length _____ 5) location on structure _____

g) spillway width _____

h) approx. storage _____ n) Category of Dam _____

i) approx. storage to crest _____

j) date constructed _____

k) inspection sheet completed (Y/N) _____

l) Name of Contractor _____

NOT TO SCALE

APPLICATION
NO. 4964-3

Children's Home Society
Sioux Falls, SD

Drawn by:

Gregory C. Johnston

Gregory C. Johnston
Natural Resources Engineer,
DNR

12/17/91

1" = 750'
N

N $\frac{1}{2}$ NE $\frac{1}{4}$ Sec 14-

460'
300'
Dam
Well
255'
600'

Non Ag

Non Ag

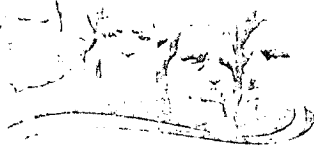
N $\frac{1}{2}$ NE $\frac{1}{4}$ Section 14 T101N-R49W:
Uses 256 PM (0.06 cfs) for
geothermal heat pump and
then releases ^{water} into
pond w/ dam. (3.2 acre-foot
Storage)

101-49

13-R

4964-3

South Dakota



GREAT FACES. GREAT PLACES.

**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501-3181

November 13, 1991

Don Boltzer
630 S. Minnesota Ave.
Sioux Falls, SD 57104

Dear Mr. Boltzer:

I am writing regarding our conversation on what needs to be done with Water Permit No. 4964-3 at the Children's Home Society in Sioux Falls.

You spoke to me about using water from the small pond on the grounds of the Children's Home Society for geothermal purposes, then returning the water back to the pond without significant losses. Because the water is eventually returned back to its source, we will not require you to apply for a change of use of the water. Remember, this only applies if you do not use more water than was originally appropriated on Water Permit No. 4964-3 (30 GPM). If you know you will be using more than 30 GPM from the well, you will need to apply for additional water on the permit. I will document the additional geothermal use on the water license I am presently completing.

Also, let me know if you plan to increase the present volume of water in the pond so the proper changes can be made on the license. You are presently permitted for a 3.2 acre-foot confinement. If you know you will exceed this, we will then apply for more storage.

If you have any further questions, please feel free to contact me.

Sincerely,

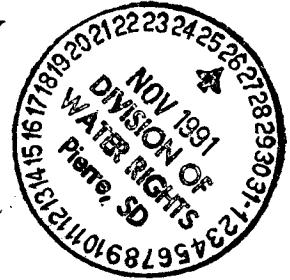
Gregory C. Johnston

Gregory C. Johnston
Natural Resources Engineer
Water Rights Division
(605) 773-3352



CHILDREN'S HOME SOCIETY

DAVID P. LOVING, EXECUTIVE DIRECTOR



November 22, 1991

Greg Johnston
Dept. of Environment, Natural Resources
Joe Foss Building
523 E. Capitol
Pierre, SD 57501-3181

Dear Greg:

Enclosed you will find the completed form that I had received back from Don Baltzer at Koch Hazard. I hope that it will be sufficient for purposes of issuing our final water permit.

Should you have any questions, please call me at 334-6004 or Don Baltzer at 336-3718.

Sincerely,

Pat Nadolski
Administrative Services Manager

bap

Enclosure



KOCH HAZARD BALTZER LTD
Architecture Planning Interior Design

5 December 1991

Gregory C. Johnston
Natural Resources Engineer
Water Rights Division
Department of Environment & Natural Resources
Joe Foss Building
523 E. Capitol
Pierre, SD 57501-3181

RE: Children's Home Society
Sioux Falls, SD

Dear Mr. Johnston:

We propose to use water from the pond for heating and cooling purposes. Water taken from the pond will be returned to the pond, with the volume remaining constant. We will not change the present volume of the water in the pond. No water from the present well will be used.

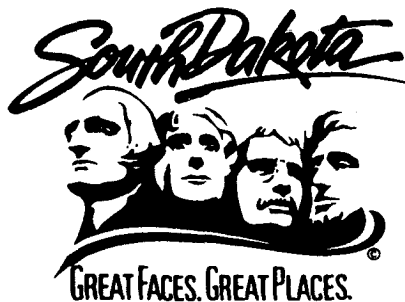
If further information is needed, please contact this writer. Thank you.

Sincerely,

KOCH HAZARD BALTZER LTD

Donald R. Baltzer, AIA

DRB/las



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501-3181

April 22, 1992

4964-3

Pat Nadolski, Administrative Services Mgr
Children's Home Society
801 N Sycamore
Sioux Falls, SD 57103-6650

Dear Mr. Nadolski:

The inspection of your water use system and the inspection of the extent of application of water to beneficial use, as developed under Water Permit No. 4964-3, has been completed. Your final water right document, the Water License, can now be issued.

Statutes require that we charge a \$50.00 fee for the inspection and issuance of the Water License. Upon receipt of the \$50.00 fee from you, we will begin processing your Water License.

South Dakota Water Law 46-5-30.1 requires that a permit holder may not divert water until the \$50.00 license fee has been paid. Please contact us if you have any questions.

Sincerely,

Genny McMath
Natural Resources Analyst
(605) 773-3352

NOTE: On check or money order, please specify your permit number. This will insure proper handling of the fee.



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501-3181

AUG 7 1992

4964-3

Children's Home Society
801 N. Sycamore
Sioux Falls, SD 57103-6650

Dear Sirs:

Enclosed is Water License No. 4964-3. This is the final water right document completing your process of obtaining a Water Right. Enclosed is Receipt No. 413196 in the amount of \$50.00 which you paid for the inspection and issuance of the Water License.

For your information SDCL 46-6-27 requires that if the owner of an existing well, such as the well authorized by Water Right No. 4964-3, constructs a replacement well and does not plan to use the old well, the old well is considered abandoned and must be plugged. Also, any well that is being used or is not considered abandoned must be valved and controlled, if flowing, or sealed and capped so that no leaking occurs either underground or at the surface.

As long as you use the water beneficially, as stated in the Water License, the State Water Laws provide that you have a continuing right to use the water. If you have any questions, please contact our office.

Very truly yours,

JOHN HATCH, Chief Engineer
Water Rights Division
(605) 773-3352

enclosures

RECEIPT

Division of Water Rights

South Dakota Department of Water and Natural Resources

476192

Pierre, April 29, 19 92

RECEIVED OF Children's Home Society, 801 N Sycamore, Sioux Falls SD 57103-6602

the following amount in fees for services rendered as provided for by law:

Fee for Application for Permit No. _____ to Appropriate Water, to construct works and to put water to beneficial use _____		
Fee for Application for Permit No. _____ to Appropriate Water for Future Use _____		
Fee to retain Future Use Permit No. _____ after period of seven years.		
Fee for Inspecting Constructed Works, confirming beneficial use and issuing Water License No. <u>4964-3</u>	50	00
Fee for Filing Transfer Form _____		
Fee for Filing Extension Request _____		
Fee for Certified Copy of _____		
Fee for Print Copy of Map _____		
Fee for Certifying _____		
Fee for _____		
(Any Other Work Provided by Law)	Total	50 00

By John Hatch/Dmk
Chief Engineer

STATE OF SOUTH DAKOTA

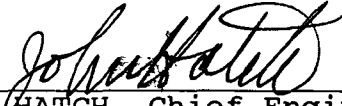
WATER LICENSE NO. 4964-3

(1) Children's Home Society of 801 N. Sycamore, Sioux Falls, SD 57103-6650 made Application No. 4964-3, June 3, 1983 for a water permit to appropriate 0.07 cubic feet of water per second from groundwater (one well), Minnehaha County, South Dakota for geothermal, recreational and institutional purposes. Permit No. 4964-3 with a priority date of June 3, 1983 was approved October 5, 1983 and issued to applicant(s) for diversion of water with construction of the described water supply system to be completed on or before October 5, 1988 and for the application to beneficial use of said water on or before October 5, 1992.

(2) It is certified that the applicant has complied with the provisions of South Dakota State Law relating to completion of the construction of the water supply system and is entitled to divert 0.06 cubic feet of water per second for beneficial use. The location of the diversion point is: 600'W and 460'S of the NE corner of Section 14, T101N, R49W (NE 1/4 NE 1/4). The well water is pumped to a 3.2 acre-feet storage dam also located in the NE 1/4 NE 1/4 Section 14, T101N, R49W.

(3) The applicant has complied with the provisions of South Dakota State Law relating to the application of water to beneficial use. The water is pumped to a geothermal heating system with heat pump and then released to a dam for recreational and institutional purposes.

(4) Pursuant to Section 46-5-30.1 Children's Home Society of 801 N. Sycamore, Sioux Falls, SD 57103-6650 the holder(s) and/or owner(s) of Water Permit No. 4964-3 is issued a license to appropriate water, the right to use 0.06 cubic feet of water per second from groundwater (one well) with a priority date of June 3, 1983 from the location specified in (2) of this license. The water is to be used for the purpose of institutional, geothermal and recreational use. This license is subject to any limitations or qualifications listed in Water Permit No. 4964-3 and subject to South Dakota State Law.

 AUG 7 1992
JOHN HATCH, Chief Engineer
Water Rights Division
Department of Environment and
Natural Resources



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3181

November 14, 1995

Leonard C. Neugebauer, PE/LS
DeWild Grant Reckert & Associates
1113 East 14th Street
Sioux Falls, SD 57104

Dear Mr. Neugebauer:

I am writing in reference to your October 31, 1995, letter concerning the repair of the dam at the Children's Home Society. The dam is already covered under Location Notice No. 34802 and Water Right No. 4964-3. The dam is also too small to meet the criteria of our Safety of Dams Rules, Chapter 74:02:08. Therefore, additional permits or review and approval of plans and specifications for the repair project will not be necessary.

Thank you for the information and inquiry on permitting. If you have any questions, please feel free to contact our office.

Sincerely,

Gale N. Selken, P.E.
Natural Resources Engineer IV
for John Hatch, Chief Engineer
Water Rights Program
(605) 773-3352

c: Pat Nadolski, Children's Home Society
John Osman, City Engineering Department



DeWild Grant Reckert and Associates Company
Consulting Engineers

**1113 East 14th Street
Sioux Falls, South Dakota 57104
(605) 339-4157**

October 31, 1995

Mr. John Hatch
Department of Environment and Natural Resources
Joe Foss Building
523 East Capitol
Pierre, SD 57501-3181



RE: Lake and Dam Repair at Children's Home Society
801 N. Sycamore Avenue, Sioux Falls, SD
DGR File No. 64408

Dear Mr. Hatch:

This letter is in regard to a proposed lake and dam repair project in Sioux Falls for which we are developing plans for construction. This project is located in the northeast area of Sioux Falls as shown on the attached copy of the Sioux Falls East quad map.

For your information, we are enclosing a copy of our preliminary letter report (2 pages) and Sheet Nos. 1 through 4 which describe and illustrate the repairs contemplated.

Please review this information and advise us if any permit is required from SDDENR for construction of these repairs. If any permits are required, please send the necessary forms so that we may prepare the application and submit the same to you for processing.

Please feel free to call me if you have any questions or comments.

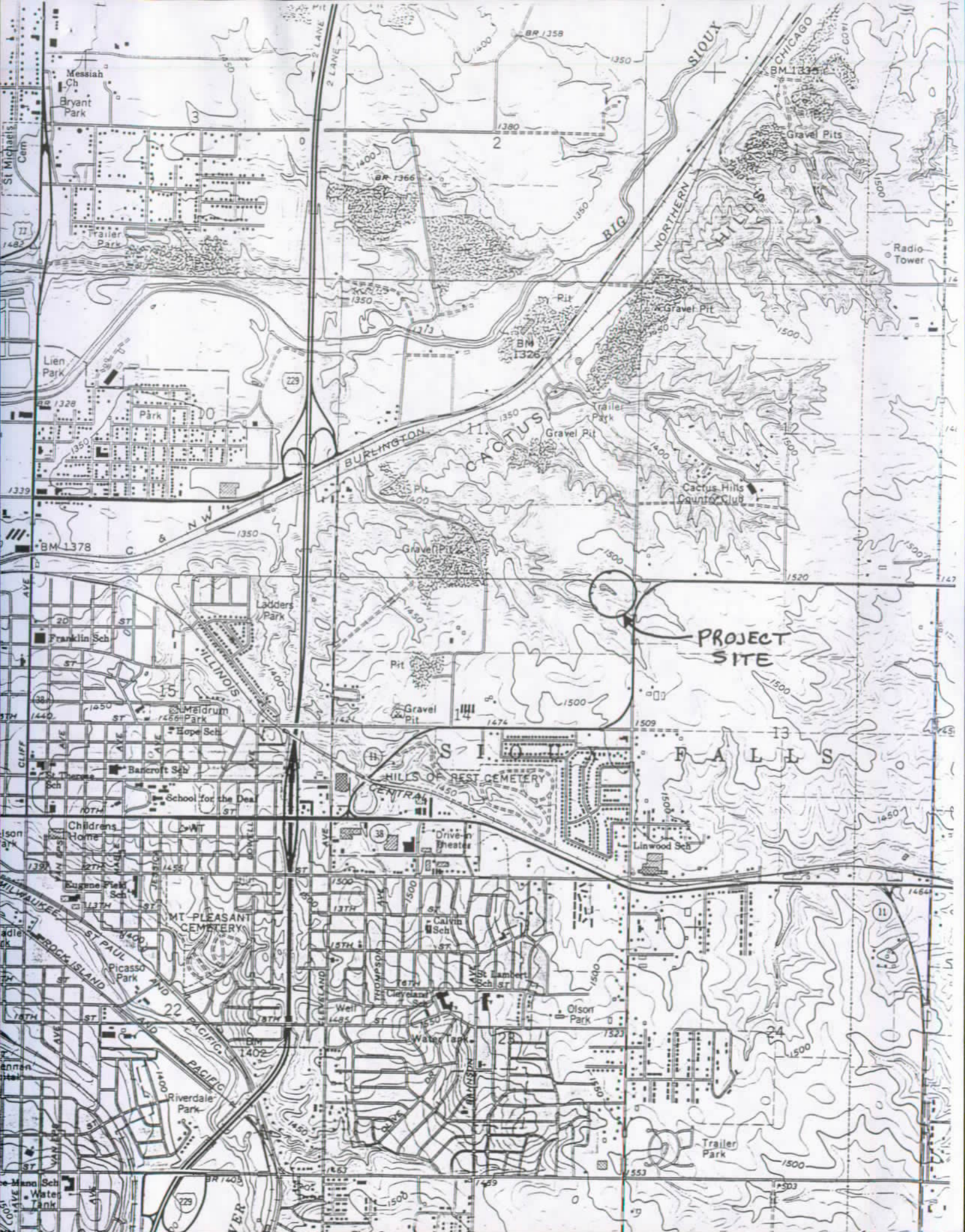
Sincerely yours,

DEWILD GRANT RECKERT
& ASSOCIATES COMPANY

Leonard C. Neugebauer, PE/LS
Project Manager

Enclosures

cc: Pat Nadolski, Children's Home Society
John Osman, City Engineering Department





DeWild Grant Reckert and Associates Company
Consulting Engineers

1113 East 14th Street
Sioux Falls, South Dakota, 57104
(605) 339-4157

March 2, 1995

Children's Home Society
801 N. Sycamore Avenue
Sioux Falls, SD 57103-6650

ATTN: Pat Nadolski

RE: Lake and Dam Repair at Children's Home Society

Dear Ms. Nadolski:

This letter with enclosures presents our preliminary concept drawings and construction cost estimates for the above referenced project. This preliminary engineering work was performed under authorization of our agreement with you dated December 22, 1994. The following paragraphs briefly describe the preliminary drawings and construction cost estimates enclosed.

ADD CONCRETE SPILLWAY AND RAISE DAM. The existing dam has a deteriorated outlet consisting of a pipe, some concrete, and plastic channel lining. This deteriorated outlet is severely eroding, which if allowed to continue jeopardizes the integrity of the dam. The enclosed plan and profile drawing of the dam (Sheet 1) shows the addition of a concrete spillway to the dam. In addition, hydraulic calculations were performed for a major storm (100-year) from the 63-acre watershed in a fully developed state. The existing dam is not quite high enough to allow this storm runoff to pass through the lake and dam without overtopping the dam. Therefore it is proposed that the dam be raised by up to 2' as shown on the preliminary drawing. The old outlet area would be temporarily excavated to draw the lake down during construction and then filled in and seeded after the other construction is completed. The preliminary construction cost estimate for these improvements to the dam is \$32,000, a copy of which is enclosed.

EXCAVATE AND HAUL SILT FROM LAKE. The enclosed plan (Sheet 2) shows the locations of eight cross sections which were surveyed through the lake. When the cross sections were surveyed, two depth readings were taken, the first to the bottom of the lake and the second to the apparent bottom of the soft material in the bottom of the lake. The bottom of the lake and the bottom of the soft material are shown on the cross sections (Sheet 3). A proposed excavation line is also shown on the cross sections. The attached preliminary construction cost estimate for \$34,000 is based on excavating to this line. The actual excavation which might be done could vary from none to this amount of excavation, depending how much material it was decided to remove from the lake.

March 2, 1995
Children's Home Society
Page 2

OPTIONS TO IMPROVE THE DRAIN INTO THE LAKE. Under present conditions, stormwater runoff enters the lake on its east end through an open channel extending from Sycamore Avenue west into the lake. This existing open channel is severely eroding. Three options were investigated to improve this drain into the lake. The attached preliminary plan and profile drawings (Sheets 4, 5 and 6) illustrate these three options. Option 1 consists of installing a 48" RCP extension and connecting it to the existing culvert with a junction box. Option 2 is similar to Option 1, except bend sections are used instead of a junction box. Option 3 consists of a shorter extension of the culvert, which then discharges to a concrete lined channel. Preliminary construction cost estimates are enclosed for each of these options. Based on these estimates, Options 1, 2 and 3 are estimated to cost about \$51,500, \$51,500, and \$61,000 to construct, respectively. We recommend Option 1, based on lower cost, easier construction, and better access for maintenance.

After you have had an opportunity to review the information presented herewith, you may wish to have others review it as well. We have submitted three copies of this letter report. If you have need for further copies, please let us know. After you have completed your review, please contact us and let us know how you want to proceed. We will await your direction before submitting any information to other parties or setting up a meeting to discuss this information. If you have any questions or comments, please do not hesitate to call us.

By my signature below, I hereby certify that this letter report along with the enclosed preliminary drawings and construction cost estimates were prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of South Dakota.

Sincerely yours,

DEWILD GRANT RECKERT
& ASSOCIATES COMPANY

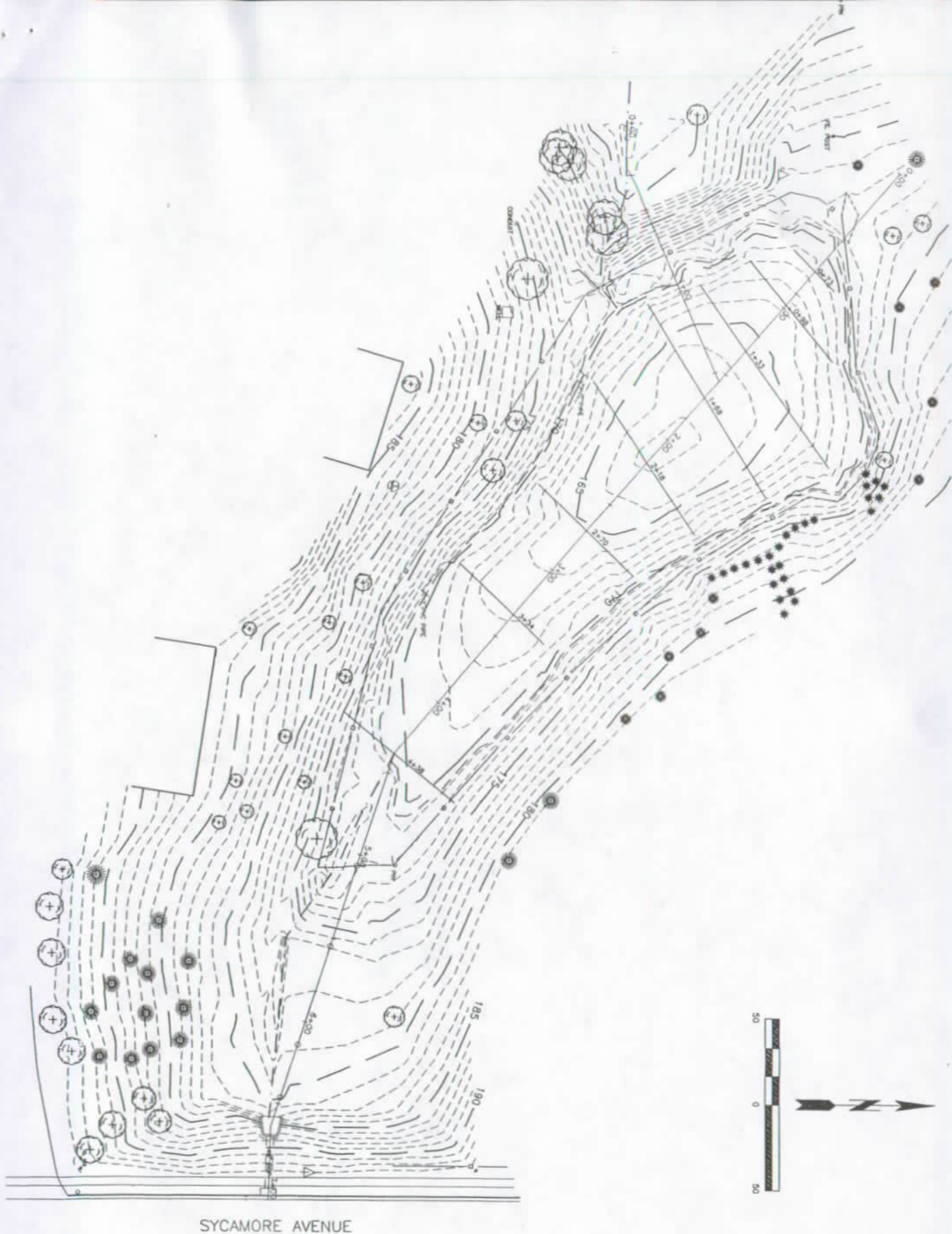


Leonard C. Neugebauer, PE/LS
Vice President
Registration No. 2461



Enclosures:

- Drawing and PCCE for Add Concrete Spillway and Raise Dam
- Drawings and PCCE for Excavate Silt from Lake
- Drawing and PCCE for Option 1 - Extend 48" RCP with Junction Box
- Drawing and PCCE for Option 2 - Extend 48" RCP
- Drawing and PCCE for Option 3 - Extend 48" RCP to Concrete-Lined Channel



SYCAMORE AVENUE

2

DGR

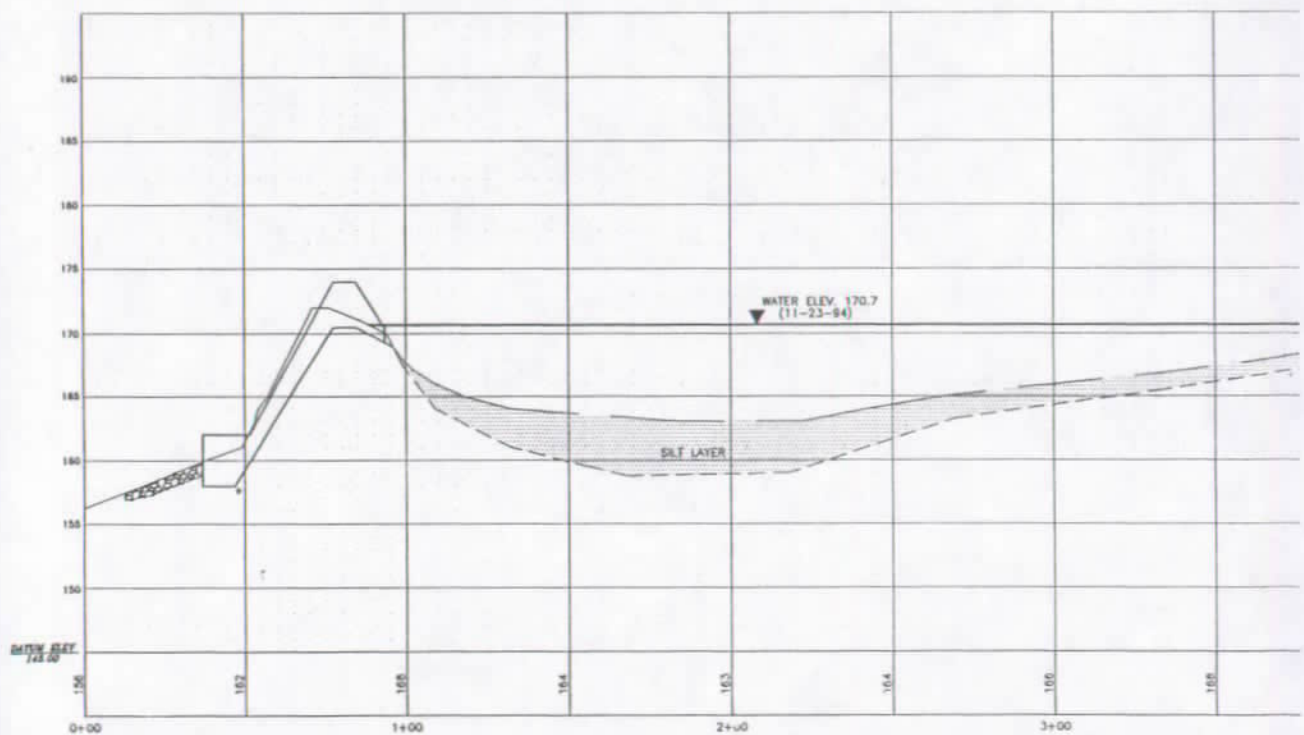
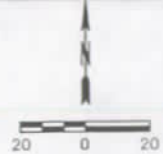
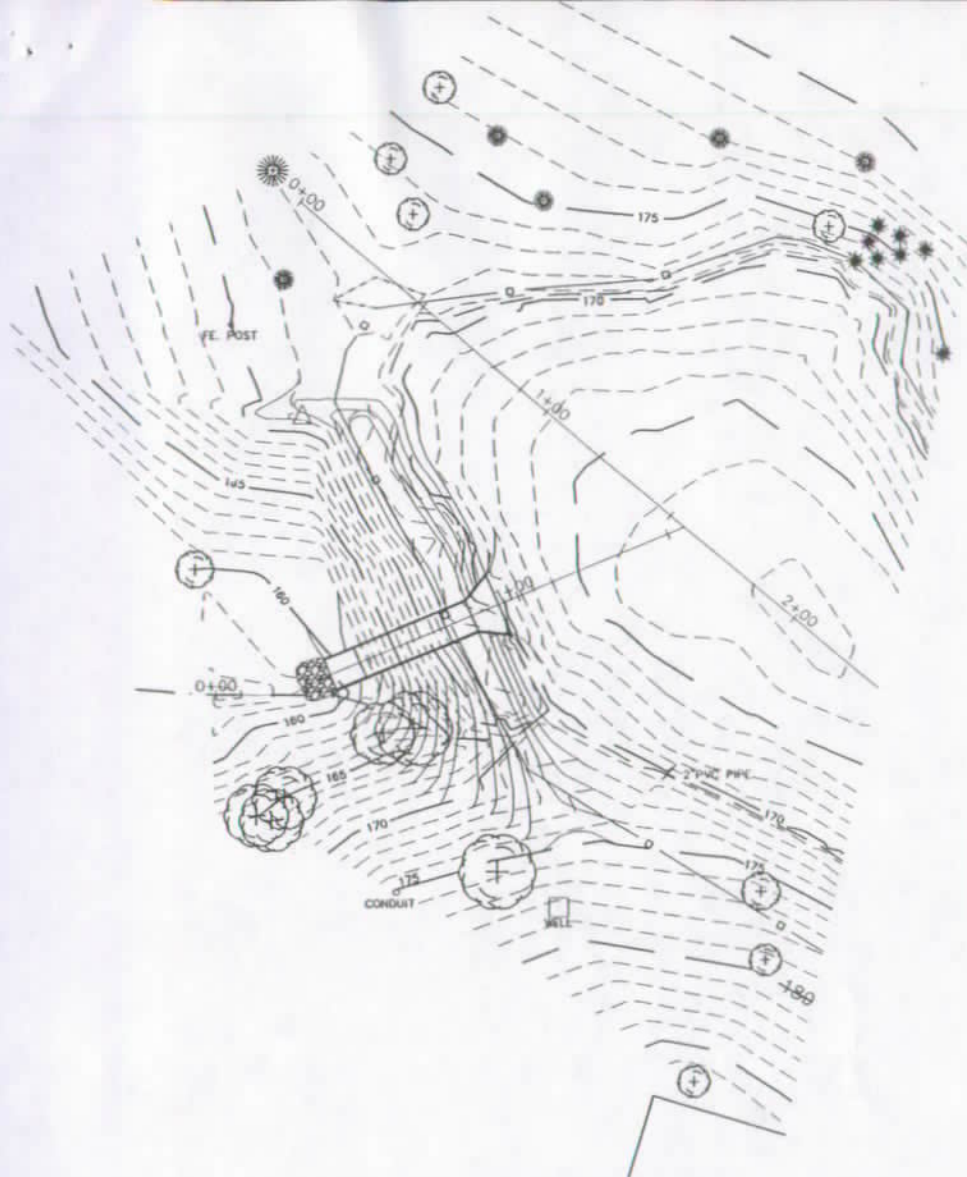
DeWid Grant Reckert
and Associates Company
Consulting Engineers
Rust, Rogers, Inc.
Sioux Falls, South Dakota
Sioux City, Iowa

PROJECT
#64408

Date 3-23-95
Drawn By MCG
Approved LCH
Revised

PRELIMINARY PLAN FOR
EXCAVATE SILT FROM LAKE

LAKE & DAM REPAIR AT CHILDREN'S HOME SOCIETY
SIOUX FALLS, SOUTH DAKOTA



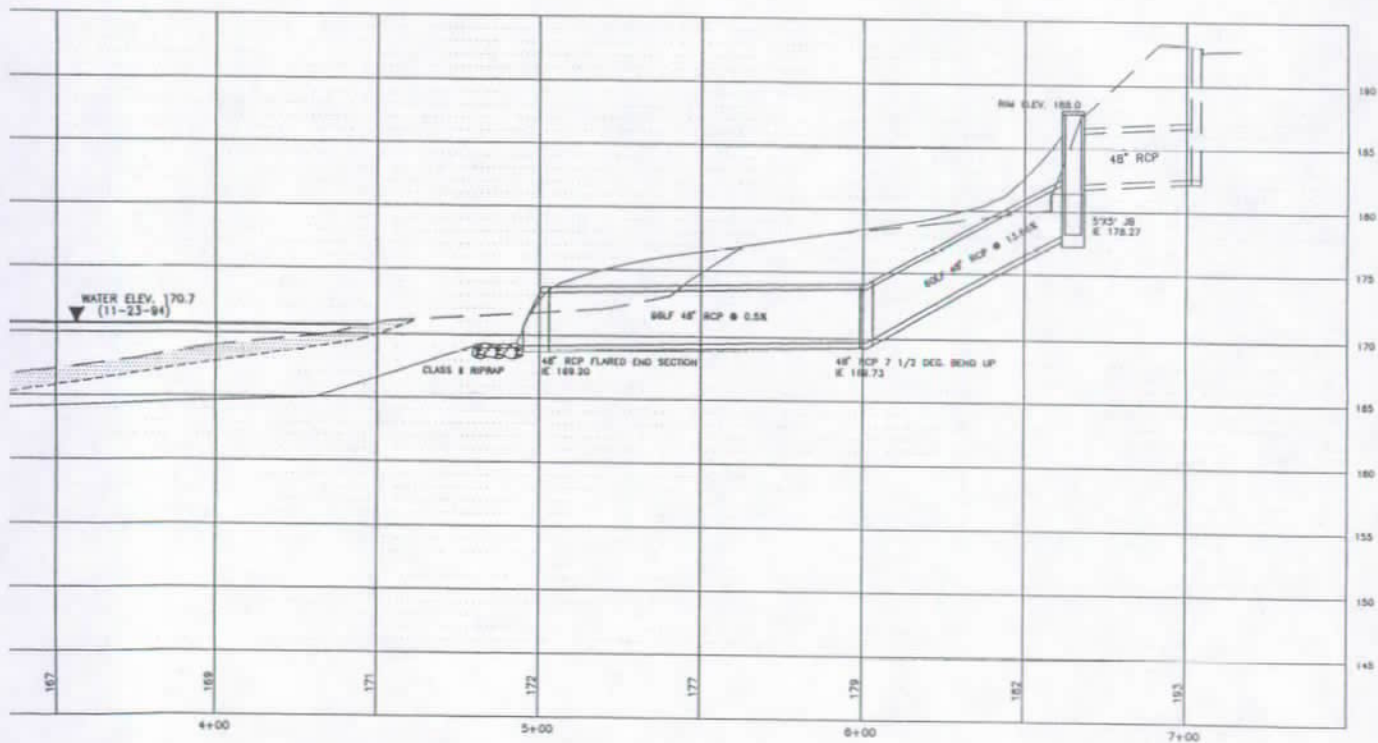
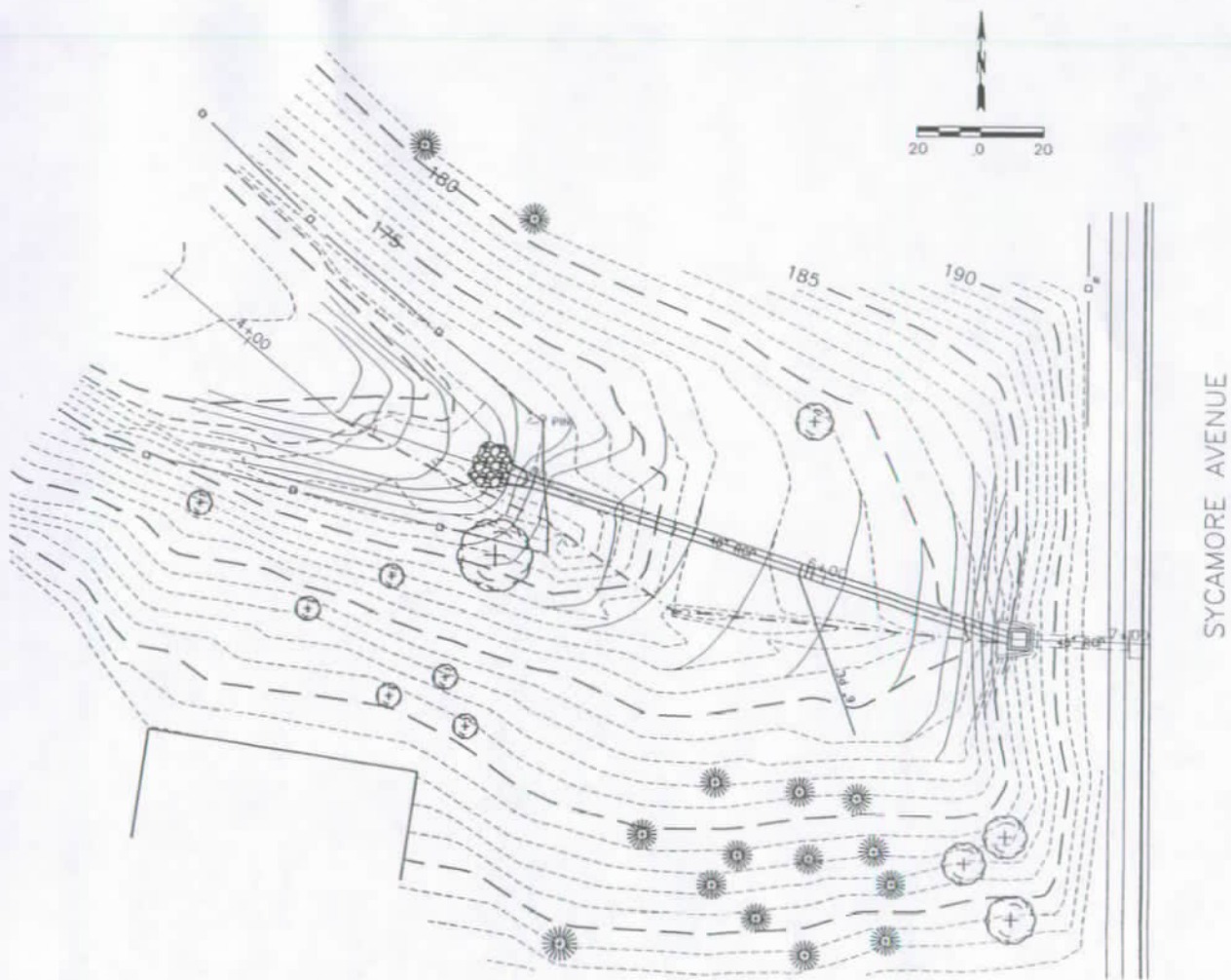
David Grant Rackert
and Associates Company
Consulting Engineers
Rock House, West
Sioux Falls, South Dakota
Sioux Falls, South Dakota

PROJECT
#64408

Date 2-15-95
Drawn By MGB
Approved LCN
Revised

PLAN/PROFILE FOR ADD CONCRETE SPILLWAY
AND RAISE DAM

LAKE & DAM REPAIR AT CHILDREN'S HOME SOCIETY
SIOUX FALLS, SOUTH DAKOTA



4

MDR

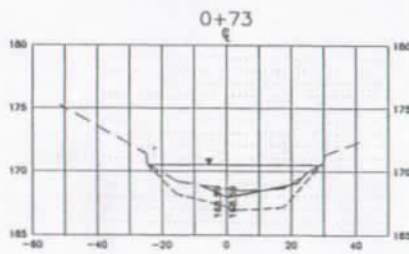
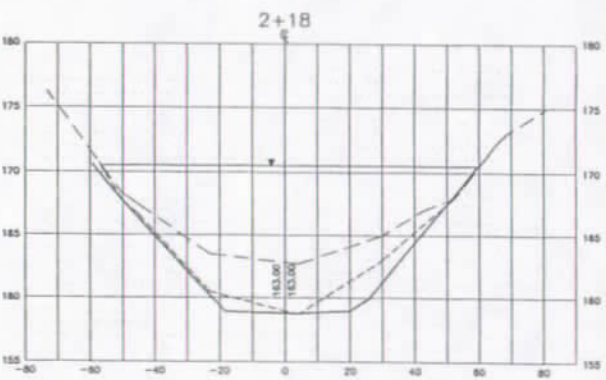
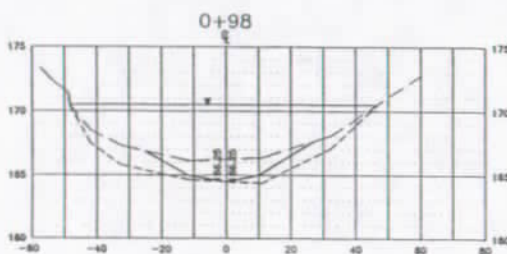
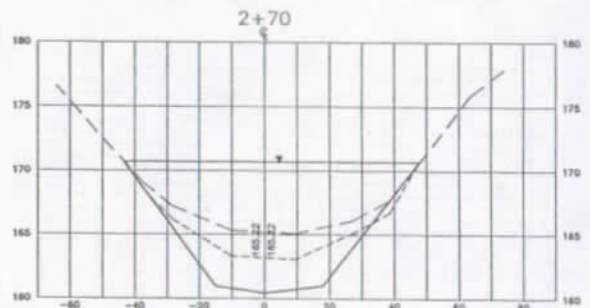
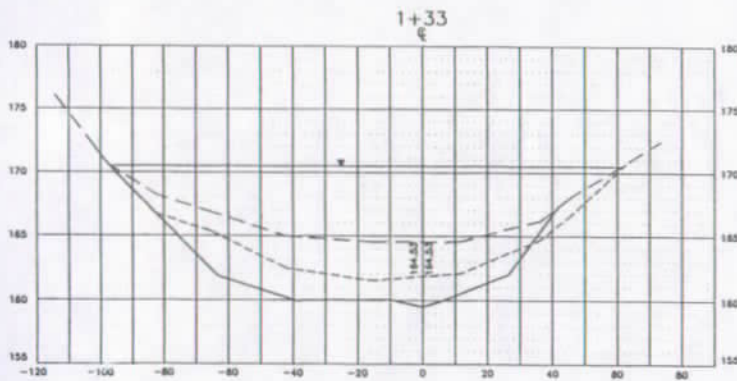
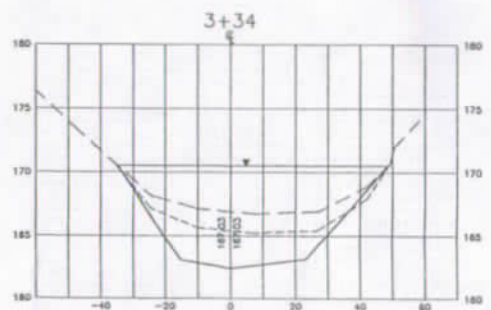
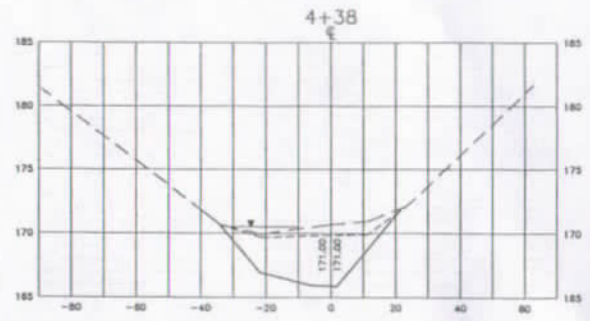
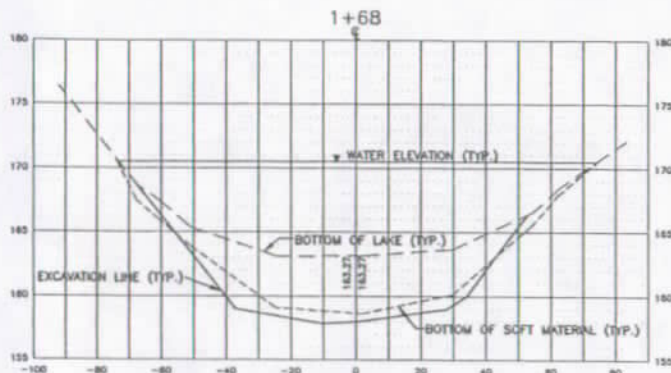
DeWitt Grant Reckert
and Associates Company
Consulting Engineers
Sioux Falls, South Dakota
Sioux City, Iowa

PROJECT
#64408

Date 2-15-95
Drawn By MOB
Approved LCH
Revised

PLAN/PROFILE FOR OPTION #1 -
EXTEND 48" RCP WITH JUNCTION BOX

LAKE & DAM REPAIR AT CHILDREN'S HOME SOCIETY
SIOUX FALLS, SOUTH DAKOTA



LOCATION NOTICE- DRY DRAW

Minnehaha

County

Dry Draw No.

I, Tom Costello of
Name

128 North Main Avenue, Sioux Falls, South Dakota
Address Town

Minnehaha
County

owner

of the following described land, do hereby notify the Water Resources Commission of the State of South Dakota and all others concerned that I am exercising my right under Section 61-0138 of Chapter 40 of the Session Laws of 1953 as amended, for construction of a Dry Draw dam for the purpose of storing (storing, diverting, or both) flood waters for livestock purposes.

The following data is presented in compliance with Section 61-0138, as amended:

(1) Dates of

(a) This application September 3, 1965
(b) Posting at construction site September 3, 1965

(2) Legal description of the land upon which the dam is located, NE 1/4 of the NE 1/4 of Section 14, Township 101, Range 49. The dam is located 30 rods E and 8 rods S of the NE corner of said Section (N.S.E.W.) (N.S.E.W.) (NW,NE,SE,SW)

in the County of Minnehaha

The owner of the land is The Costello Company, 128 North Main Avenue
Tom Costello, Pres. Sioux Falls, South Dakota
Name Address

(3) Amount of water claimed for all purposes each year 3.2 acre feet.
(4) Storage capacity of reservoir 3.2 acre feet.
(5) Surface area of reservoir 0.8 acres.
(6) Size of watershed above dam 65 acres.

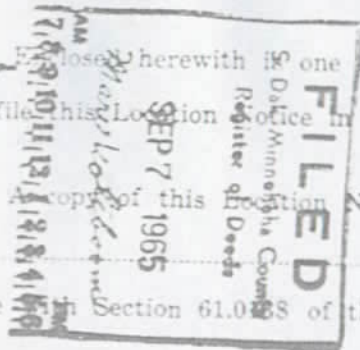
(Over)

RECEIVED
SEP 8 1965

STATE WATER RESOURCES COMM
PIERRE SOUTH DAKOTA

Enclosed herewith is one dollar (\$1.00). The Water Resources Commission is requested to file this Location Notice in their official records.

A copy of this Location Notice has been filed (do not record) with the Register of Deeds of _____ County and has been posted at the structure site in accordance with Section 61.068 of the Water Laws.



THIS NOTICE IS FILED IN THE
_____ ANY

Owner

by _____
Locator

STATE OF SOUTH DAKOTA

County of _____ ss.

On this _____ day of _____, 19____, before me

_____, a _____
(Notary Public or other Official having a seal)

in and for the County and State aforesaid, personally appeared _____, who acknowledged to me personally known to be the person who executed the foregoing instrument and acknowledged that —he executed the same for the purposes therein set forth.

Witness my hand and official seal the day and date above written.

Name

(SEAL)

Title

Water Resources Commission created Jan. 1, 1964

76260