State of Idaho
Department of Water Resources

Water Right License

Water Right No. 63-34298

Priority: October 20, 2016

Maximum Diversion Rate: 0.60 CFS
Maximum Diversion Volume: 45.0 AF

It is hereby certified that:

INDEPENDENT SCHOOL DISTRICT OF BOISE CITY
8169 W VICTORY RD
BOISE ID 83709

has complied with the terms and conditions of the permit, issued pursuant to Application for Permit dated October 20, 2016, and has submitted Proof of Beneficial Use on March 31, 2022. An examination confirms water is diverted from:

Source : GROUND WATER

Beneficial Use	Period of Use	Rate of Diversion	Annual Volume
IRRIGATION	03/01 to 11/15	0.60 CFS	45.0 AF

Location of Point(s) of Diversion
GROUND WATER NW¼ NW¼, Sec. 11, Twp 03N, Rge 02E, B.M. ADA County

Place of Use: IRRIGATION

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N	02E	2											0.3						0.3
03N	02E	10	0.9																0.9
03N	02E	11						8.8											8.8

Total Acres: 10.0

Conditions of Approval

1. This right when combined with all other rights shall provide no more than 4.5 afa per acre at the field headgate for irrigation of the place of use.
2. Diversion and use of water with a temperature greater than 85 degrees Fahrenheit is not authorized under this right.
3. To prevent injury to prior water rights appropriating water from the Boise River and/or the underlying shallow aquifer tributary to the Boise River, the well used as a point of diversion for this water right shall be constructed and maintained with unperforated casing and sealed into the first significant confining layer located 200 feet or more below ground surface.
4. The diversion rate for this right shall not exceed 0.60 cfs. Provided, further, this right when combined with all other rights shall provide no more than 0.02 cfs per acre when averaged over a twenty-four hour period based upon the amount of water applied over such twenty-four hour period. However, should the lands authorized to be irrigated under this right ever cease to be a school, park, cemetery or golf course recognized by the Department as allowing more than one inch per acre, then this right when combined with all other rights shall provide no more than 0.02 cfs per acre at the field headgate for irrigation of the place of use.
5. Water bearing zone to be appropriated is 200 to 400 feet.

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JAN 25 2023

State of Idaho
Department of Water Resources

Water Right License

Water Right No. 63-34298

6. 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 use power records to determine the amount of water diverted and shall annually report the information to the Department.
7. When ordered by the Director, the right holder shall provide mitigation acceptable to the Director to offset depletion of lower Snake River flows needed for migrating anadromous fish. The amount of water required for mitigation, which is to be released into the Snake River or a tributary for this purpose, will be determined by the Director based upon the reduction in flow caused by the use of water pursuant to this right. Any order of the Director issued in accordance with this paragraph shall be in conformance with applicable rules allowing the right holder due process as the need for mitigation and the amount of mitigation are determined.

This license is issued pursuant to the provisions of Idaho Code § 42-219. The water right confirmed by this license is subject to all prior water rights and shall be used in accordance with Idaho law and applicable rules of the Department of Water Resources.

Signed this 23rd day of January, 2023.

CODY PARKER
Water Rights Supervisor

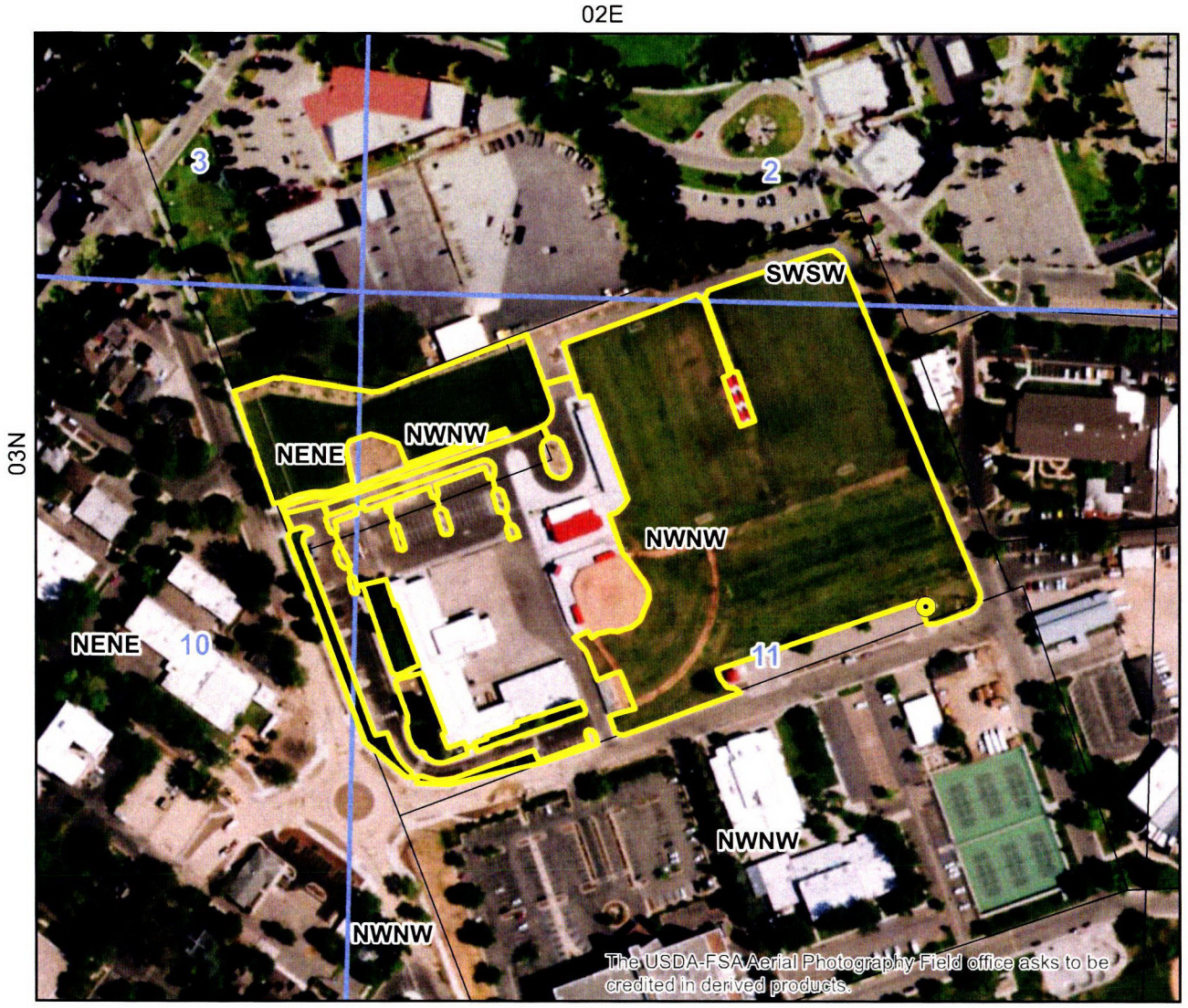
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State of Idaho
Department of Water Resources

Attachment to Water Right License

63-34298

This map depicts the IRRIGATION place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.



Point of Diversion
Place Of Use Boundary
Townships
PLS Sections
Quarter Quarters

0 0.035 0.07 0.14 Miles

N

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JAN 2023

RECEIVED

MAR 31 2022

DEPARTMENT OF WATER RESOURCES

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

STATEMENT OF COMPLETION

FOR SUBMITTING PROOF OF BENEFICIAL USE

FOR OFFICE USE ONLY
Amt. of Fee $
Receipt No.
Receipted By
Date Receipted

The Idaho Department of Water Resources considers this form a statement by the permit holder(s) that development of a water right has been **completed** and that water has been applied to beneficial use to the extent described below. **This form must be accompanied by an examination fee, when necessary, or by a completed Beneficial Use Field Report prepared by a certified water right examiner.** Please refer to the instructions and fee schedule for this form. If ownership of the permit has changed, contact any Department office or visit the Department's website at **idwr.idaho.gov** for an *Assignment of Permit* form. If you wish to relinquish your permit because you have not established the authorized use of the water and are not applying for an extension, please notify the Department in writing.

1. Permit No. 63-34298 Telephone No. 208-854-4040
2. Name of Permit Holder(s) Independent School District of Boise City
3. Mailing Address 8169 W Victory Rd City Boise
   State ID Zip 83709 Email
4. Source of Water Ground Water If **GROUND WATER** (well), Date Drilled mo. Mar / yr. 2017
   Well Driller Stevens and Sons Drilling Permit Number 975406-881463
5. Extent of use(s) completed **as authorized by the water right permit**:
   Domestic (No. of households) _____ Stockwater (No. and type of stock) _____
   Irrigation (No. of acres) 10 Other _____
6. Total rate of diversion or storage volume for which proof is submitted 0.60 cfs **OR** _____ acre-feet.
7. Compliance with a measuring device requirement, lockable controlling device requirement, and/or other conditions of permit:
   Refer to the approval conditions on your permit and respond accordingly.
   The Department will not issue a license if permit conditions are not met.

Measuring Device	**Is a measuring device required?**	Yes ☐	No ☑
	If yes, has the measuring device been installed?	Yes ☑	No ☐
Lockable Controlling Device	**Is a lockable device required to control the diversion?**	Yes ☐	No ☑
	If yes, has the lockable device been installed?	Yes ☑	No ☐
Fish Screen	**Is a fish screen required?**	Yes ☐	No ☑
	If yes, has the fish screen been installed?	Yes ☐	No ☑

Other Conditions of Permit
Do the approval conditions on your permit require you to submit additional information in connection with your proof of beneficial use? If yes, list the conditions below and attach documents with the required information.

_____ Completed? Yes ☐ No ☑

8. Fee Enclosed $ _____ or not applicable ☑. See fee schedule on page 2 of the instructions.
   Proof statements filed without an appropriate fee, will be considered incomplete.
9. Person to contact to accompany the Department representative during field examination of the water system.
   Name Tim Stienmetz Telephone Number 208-854-4040
   Mailing Address _____ City _____
   State _____ Zip _____ Email _____

The information given on this form is my true statement of the extent to which the above numbered permit has been developed and water has been diverted and applied to a beneficial use. I understand that any undeveloped portion of the permit is relinquished to the State of Idaho.

Signature of Permit Holder Boise Independent School District Gourdie Foreman Date 3-31-22
(Include your title, if on behalf of company or organization)

Mail to: Idaho Department of Water Resources, PO Box 83720, Boise, ID 83720-0098

Form No. 217 12/15

SCANNED
JAN 25 2023

IDAHO DEPARTMENT OF
WATER RESOURCES

322 E Front Street, Suite 648, Boise ID 83702 • PO Box 83720, Boise ID 83720-0098
Phone: 208-287-4800 • Fax: 208-287-6700 • Email: idwrinfo@idwr.idaho.gov • Website: idwr.idaho.gov

Governor Brad Little **Director Gary Spackman**

January 24, 2023

INDEPENDENT SCHOOL DISTRICT OF BOISE CITY
8169 W VICTORY RD
BOISE ID 83709

RE: License No. 63-34298

ISSUANCE OF LICENSE

Dear Water Right Holder:

The Department of Water Resources ("Department") has issued the enclosed Water Right License confirming that a water right has been established in accordance with your permit. Please be sure to thoroughly review all the conditions of approval listed on your license. The conditions may include ongoing requirements, such as maintenance of a measuring device or implementation of mitigation, as well as information about how your water use may be administered, such as regulation by a watermaster in a water district.

The license is a PRELIMINARY ORDER issued by the Department pursuant to Rule 730 of the Department's Rules of Procedure (IDAPA 37.01.01.730). It can and will become a final order without further action by the Department unless a party petitions for reconsideration, files exceptions, or requests a hearing as described in the enclosed information sheet.

Also, please note that water right owners are required to report any change of water right ownership and/or mailing address to the Department within 120 days of the change. Water right forms are available from any office of the Department or on the Department's website at idwr.idaho.gov

If you have any questions concerning the enclosed information, please contact me at (208) 287-4910.

Sincerely,

Debbie Sudd

for Cody Parker
Water Rights Supervisor

Enclosures

SCANNED
JAN 25 2023

CERTIFICATE OF SERVICE

I hereby certify that on January 24, 2023, I served a true and correct copy of Water Right License No. 63-34298 by U.S. Mail, postage prepaid, to the following:

INDEPENDENT SCHOOL DISTRICT OF BOISE CITY (Current Owner)
8169 W VICTORY RD
BOISE ID 83709

HDR INC (Representative)
C/O LORI GRAVES – *via email*
300 E MALLARD DR STE 350
BOISE ID 83706-6660
Lori.graves@hdrinc.com

Debbi Judd
Technical Records Specialist

SCANNED
JAN 25 2023

MEMORANDUM

TO: Water Right File 63-34298

FROM: Daniel Nelson – Analyst 3

DATE: April 15, 2022

SUBJECT: Licensing Review of Water Right 63-34298

The field exam for this right was performed by Patrick Kelley and reviewed by Certified Water Right Examiner Scott King of SPF Water Engineering. Mr. Kelley recommended 0.60 cubic feet per second (cfs) and 45 acre-fee for the irrigation of 10 acres.

History and Overlap:

This permit was authorized for a higher diversion rate than the standard 0.02 cfs / acre. The authorization was based on Administrative Processing Memorandum #60 that allows a higher diversion rate for parks, schools and other areas where the irrigation time is limited. According to the field report, they irrigate for 8 hours a day or 1/3 of the time available for normal irrigation practices. Therefore, you would multiply the standard 0.02 cfs by 3 to get the 0.60 cfs authorized by the permit.

The overlapping water rights on this permit are City of Boise and Suez/United Water municipal water rights. These rights shouldn't be an issue for this irrigation water right. There are no canal company or surface water rights for this property, so there wouldn't be any supplemental restrictions to this permit.

Point of Diversion and Place of Use:

The point of diversion matches the Idaho Department of Water Resources (Department) well drilling records. I was able to match the acres irrigated to 0.1 acre, so I find no issues with the point of diversion or place of use. There may be some minor discrepancies in actual acre per 40 acre tracts, but those will simply be the difference between the Public Land Survey lines in the certified water right examiner's mapping program the Department's mapping program.

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Diversion Rate and Volume:

The field examination was performed prior to turning on the sprinklers for the season. I was disappointed that a flow measurement wasn't made, when there appears from the diagram that the system has a magnetic flow meter installed on the system. The field examiner did provide adequate theoretical type information to show that the water system is capable of diverting 0.60 cfs and possibly a bit more. The field examiner even used the top of the pump and the pumping water level instead of an actual pumping water level, which provides the maximum possible pumping water level.

With the information supplied in the field report, I feel comfortable with the field examiner's recommendation of a diversion rate of 0.60 cfs and 45 annual acre-feet.

Conditions:

Conditions R61, 073, 165, 930, 01M, and the special condition (condition 4 on approved permit) should be carried forward to licensing. Condition 930 should be altered to show a water bearing zone of 275 to 335 feet as shown on the Well Driller's Report. Condition 121 should be changed to condition 103 as is standard.

Condition X27 will be removed because no permissible place of use was established. Therefore, the 10 acres shown in the place of use is the 10 acres being irrigated. With the school and parking lots, there is very little possibility of there ever being a permissible place of use for this right.

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JAN 25 2023

Form 219 07/11

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

BENEFICIAL USE FIELD REPORT

A Beneficial Use Field Report is prepared by a water right examiner as the result of an examination to clearly confirm and establish the extent of the beneficial use of water established in connection with a permit during the development period authorized by the permit and any extensions of time previously approved.

A. GENERAL INFORMATION

Permit No. 63-34298

1. Owner Independent School DIstrict of Boise City Phone No. 208-854-4040
   Current address 8169 W Victory Rd, Boise, ID 83709
2. Examiner's name Patrick Kelly and Scott King EXAM DATE 2/8/2022
3. Accompanied by Tim Stienmetz Email tim.stienmetz@boiseschools.org
   Address
   Relationship to permit holder Foreman, Grounds Department Phone No. 208-919-6100
4. Source Ground Water tributary to

B. OVERLAP REVIEW

1. Other water rights with the same place of use No irrigation use overlap
2. Other water rights with the same source and point of diversion No POD overlap

C. DIVERSION AND DELIVERY SYSTEM

1. **Point(s) of Diversion:**

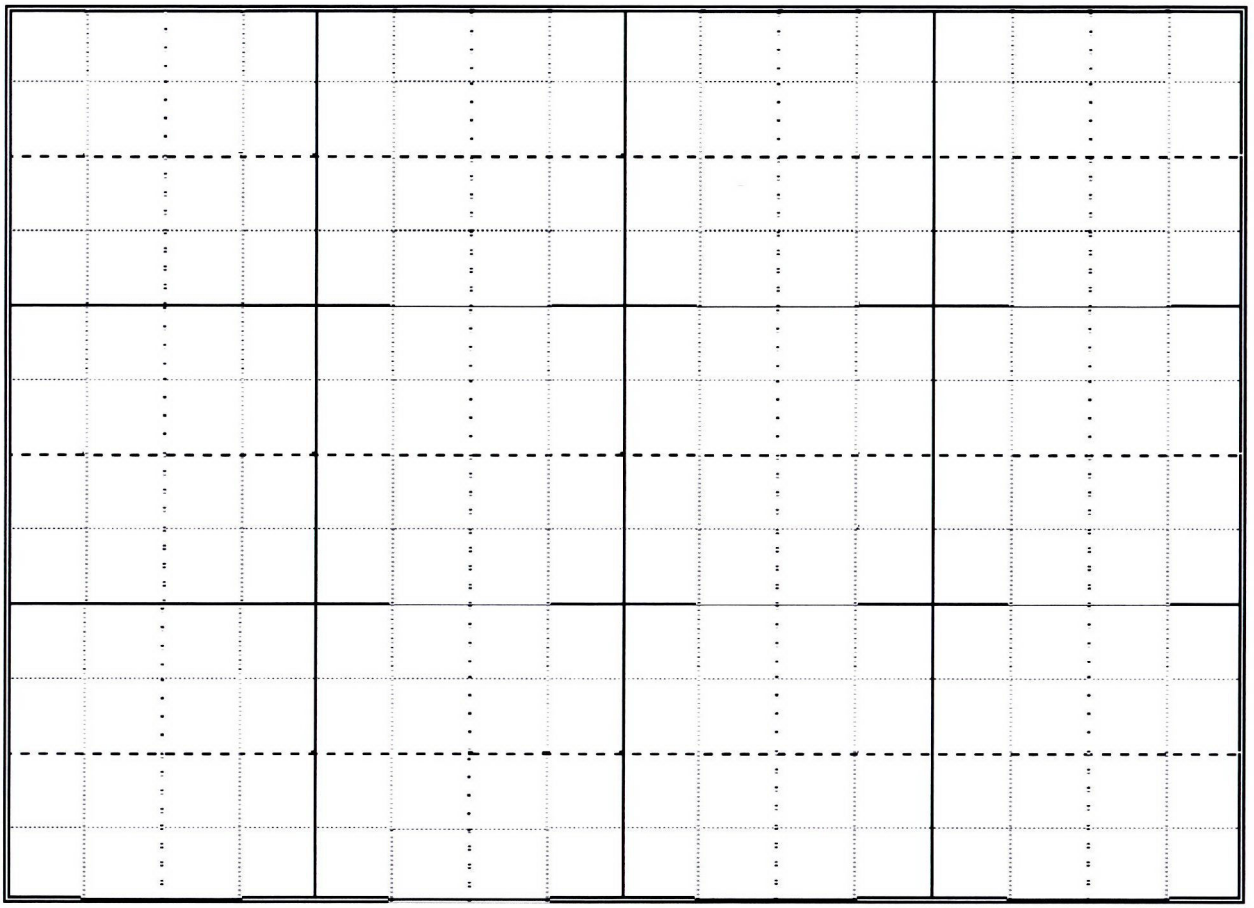
Ident. No.	Gov't Lot	¼	¼	¼	Sec	Twp	Rge	County	Method of Determination/Remarks
			NW	NW	11	03N	02E	Ada	GPS = 43 37.045N; 116 11.384W

2. **Place(s) of Use:** Method of determination Aerial imagery, digital PLSS map tools

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N	02E	02											0.5						0.5
		10	0.9																0.9
		11						8.6											8.6

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JAN 25 2023

3. **Delivery System Diagram**: Indicate all major components and distances between components. Indicate weir size/ditch size/pipe diameter (inside), as applicable. Use the space provided or ☒ see attached.



Scale: 1" = _____

☒ Copy of USGS Quadrangle attached showing location(s) of point(s) of diversion and place(s) of use (**required**)
☒ Aerial photo attached (required for irrigation of 10+ acres)
☒ Photo of diversion and system attached

4.

Well or Diversion Identification No.*	**Motor Make**	**Hp**	**Motor Serial No.**	**Pump Make**	**Pump Serial No. or Discharge Size**
Metal Tag #D0074590	Hitachi 3 phase	30	Unknown	Goulds 6CHC	4" galvanized pipe

Code to correspond with no. on map and aerial photo

D. FLOW MEASUREMENTS

1.

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

2. **Measurements:** _____

Exam conducted in off-season. No measurements collected.

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E. NARRATIVE/REMARKS/COMMENTS

See attached narrative.

Has the permit holder met all conditions of permit approval, including any mitigation requirements and/or measuring device installation requirements? ☒ Yes ☐ No If no, what must be done to meet the permit requirements?

Specific conditions of approval including acre limit, deep surface seal and cold water appropriation were accomplished.

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JAN 25 2023

F. FLOW CALCULATIONS

☐ Additional computation sheets attached

Measured Method:

Rate/Acre = 0.06 cfs/ac * 10.0 ac = 0.60 cfs

Theoretical = Q = 8.8 * (Efficiency) * hp / depth to water + 2.31*(psi)
Efficiency = 70%, hp = 30, depth to water = 108', psi = 50 to 80
Q(ave) = 0.66 cfs

Pump curve shows system designed for 270 gpm (0.60 cfs)

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$V_{I.R}$ = (Acres Irrigated) x (Irrigation Requirement) = 10 ac * 4.5 af/ac = 45.0 af

$V_{D.R}$ = [Diversion Rate (cfs)] x (Days in Irrigation Season) x 1.9835 = 0.60 cfs * 260 days * 1.9835 = 310 af

V = Smaller of $V_{I.R.}$ and $V_{D.R.}$ = 45.0 af

2. Volume Calculations for Other Uses:
No other uses permitted

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use From	Period of Use To	Rate of Diversion Q (cfs)	Annual Volume V (afa)
Irrigation	3/1	11/15	0.60	45.0
		Totals:	0.60	45.0

2. Recommended Amendments

☐ Change P.D. as reflected on page 1 ☐ Add P.D. as reflected on page 1 ☒ None
☐ Change P.U. as reflected on page 1 ☐ Add P.U. as reflected on page 1 ☐ Other

I. AUTHENTICATION

Field Examiner's Signature Scott N King Date 3/30/2022

Reviewer _____ Date _____

PROFESSIONAL ENGINEER LICENSED 7914 SEAL 3/30/2022 STATE OF IDAHO SCOTT N. KING

SCANNED JAN 25 2023

Field Exam Narrative

The field exam for the permit was conducted on February 8, 2022 by Patrick Kelly and reviewed by Scott N. King, P.E., (CWRE 133) of HDR, Inc. Mr. Kelly was accompanied by Foreman Tim Stienmetz and John Newman of the Boise Independent School District (BISD). Parcels S1011223050 and S1011223106 (Property) are owned by BISD according to current Ada County tax lot data. BISD is the permit current owner. Changes to ownership are not recommended.

Stevens & Sons drilled an 8-inch well located at -116 11.384E, 43 37.045N under well tag no. D0074590. This point is found within the NW¼NW¼, Section 11, Township 3 North, Range 2 East, B.M., Ada County. The well can be found on the east corner of the property. Amendments to the POD are not recommended.

Digital tools were used to measure irrigation use on the property. A total of 10 acres were measured described by Section C.2. of the field exam report. The legal descriptions match those described by the permit. The permit described an acre limit of 10 acres within a 17-acre place of use. Because irrigation use is not expected to change from season to season, the permissible place of use should be removed at licensing to describe a specific place of use. Amendments to the POU are not recommended.

Conditions of approval authorized up to 0.06 cfs/acre to accommodate a shorter irrigation window of 8 hours, not to exceed 0.02 cfs/acre over a 24-hour period. The sports complex irrigates a total of 122 sections through sprinkler and drip line irrigation. Mr. Newman of BISD provided a list of sections with typical flow rates from each section, with few missing. He stated that the system is set to typically run at 220 gpm, but occasionally will run up to 280 gpm.

Water is diverted with a 30 hp submersible pump. The pump was selected to achieve a flow rate of 270 gpm (0.60 cfs). A pump curve and specs are included in Attachment A. A theoretical flow calculation based on system design suggests an average flow rate of 0.66 cfs (Attachment B). A pumping test was conducted at the completion of the well drilling. The well yielded 300 gpm for a 7.5-hour pumping test with 19 feet of drawdown.

The sports fields are irrigated with Rainbird Series 8005 sprinklers. A spec sheet included in Attachment C shows that these versatile sprinklers can be used in systems of varying pressure and space. From 50 to 100 psi, the sprinklers can produce 3.8 to 36.3 gpm depending on nozzle selection. Mr. Newman stated that the system operates at around 80 to 85 psi. This suggests that only 4 to 7 sprinklers would need to operate to achieve the maximum diversion rate. It is reasonable to assume that a series of such sprinklers can operate a one time.

All this information is evidence that the system is designed and constructed to divert the maximum flow rate authorized by the right.

Overlap review found no other irrigation rights associated with the property. The well is used for no other purposes and no other rights should be considered.

Condition of approval No. 7 on the permit states that diversion and use of water with a temperature greater than 85 degrees F is not authorized. A bottom hole temperature of 65 degrees F is recorded on the well driller's report.

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JAN 25 2023

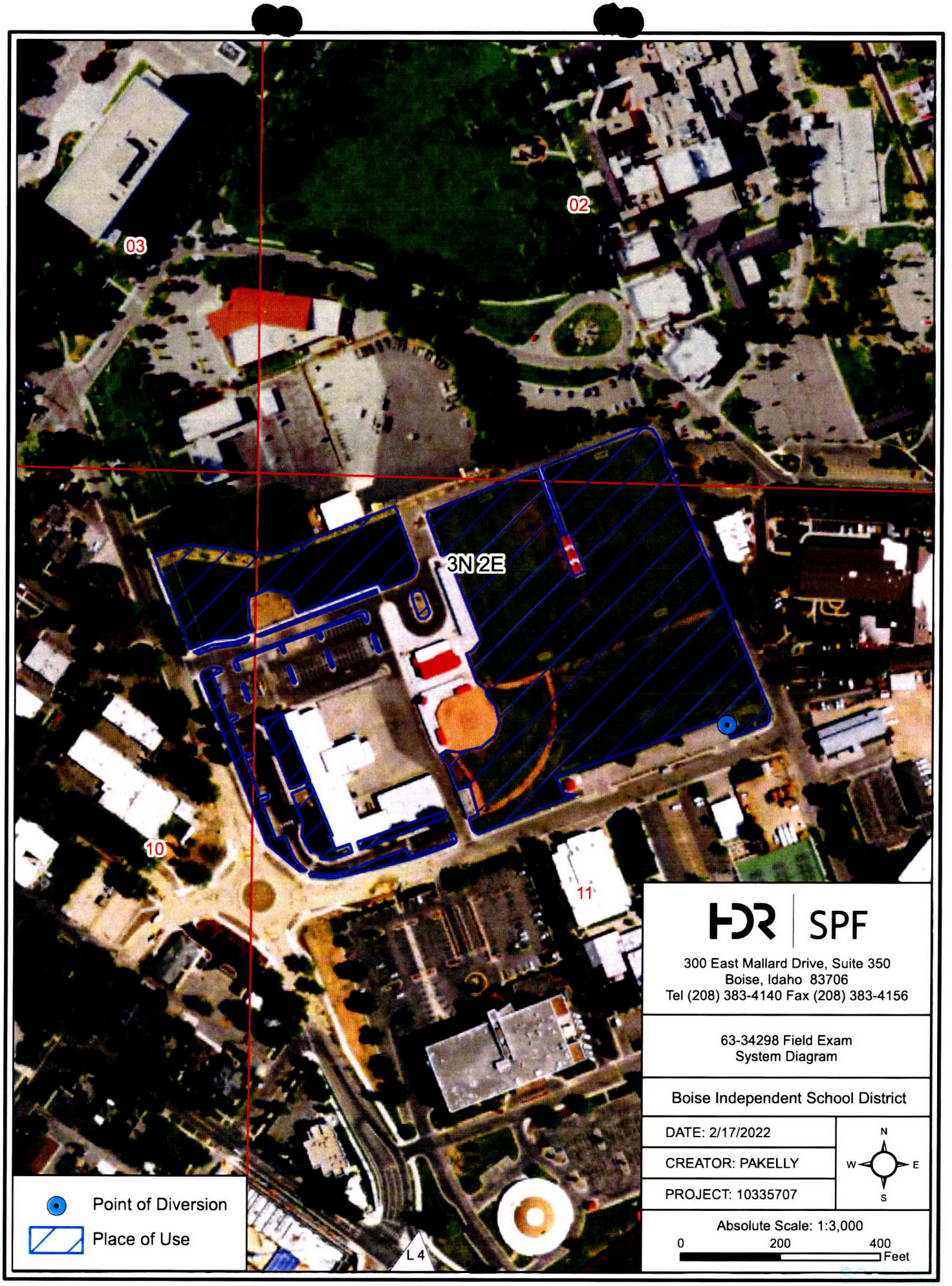
Field Exam Narrative

Condition of approval No. 8 and 9 required BISD to appropriate at a water bearing zone below the first significant confining layer below 200 feet. The well driller's report shows that a cement surface seal was placed from surface to 245 feet through blue clay layers. All conditions have been met.

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JAN 25 2023

ATTACHMENT A – SYSTEM DIAGRAM

SCANNED
JAN 25 2023



HDR | SPF

300 East Mallard Drive, Suite 350
Boise, Idaho 83706
Tel (208) 383-4140 Fax (208) 383-4156

63-34298 Field Exam
System Diagram

Boise Independent School District

DATE: 2/17/2022

CREATOR: PAKELLY

PROJECT: 10335707

N
W E
S

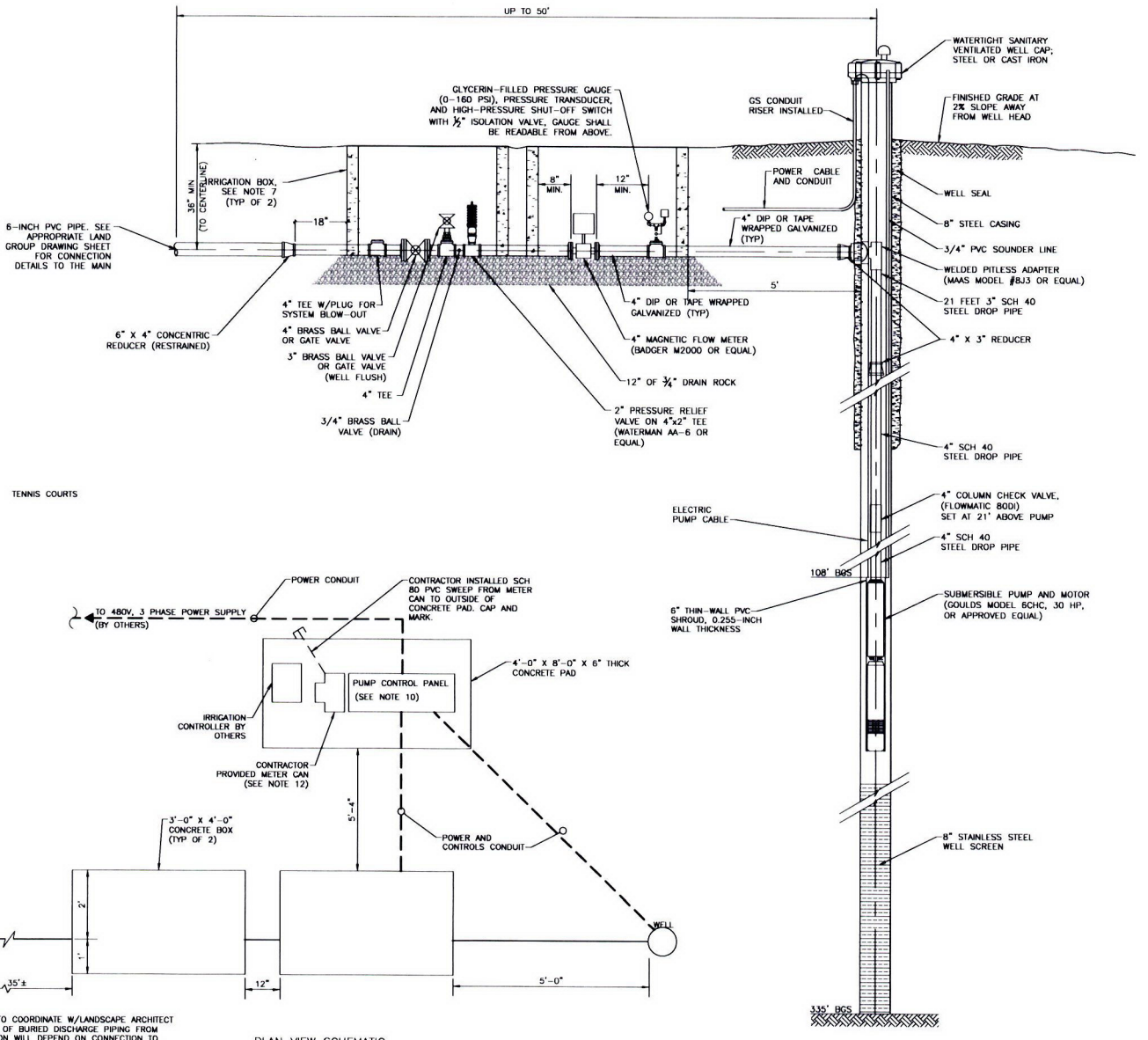
Absolute Scale: 1:3,000

0 200 400 Feet

JAN ? 3 2023

NOTES:

1. PITLESS ADAPTER SHALL BE WATER SYSTEMS COUNCIL APPROVED.
2. THE ANNULAR SEAL AROUND THE CASING SHALL BE REPLACED FOLLOWING INSTALLATION.
3. 30 HP PUMP SHALL BE SET AT APPROXIMATELY 105 FEET BELOW PITLESS ADAPTER.
4. CHECK VALVE SHALL BE INSTALLED 21 FEET ABOVE 30 HP PUMP.
5. ELECTRICAL CABLE SHALL BE FIRMLY ATTACHED TO THE DROP PIPE AT EACH COUPLING W/STAINLESS STEEL STRAPS.
6. CONTRACTOR TO ENSURE WELL CASING EXTENDS A MINIMUM OF 12 INCHES ABOVE PROJECT COMPLETION FINISH GRADE. CONTRACTOR TO COORDINATE W/OWNER ON FINISH GRADE ELEVATION.
7. THE IRRIGATION BOX SHALL BE A PRECAST CONCRETE BOX W/4" THICK WALLS. BOX SHALL BE A MINIMUM 4 FEET LONG BY 3 FEET WIDE. BOX SHALL HAVE A LIGHTWEIGHT, HINGED AND LOCKABLE STEEL LID. BOX SHALL NOT REST ON PIPING. ADEQUATE DRAINAGE SHALL BE PROVIDED BY ADDING 12 INCHES OF WASHED DRAIN ROCK IN THE BOTTOM OF THE BOX.
8. BURIED PIPE FITTINGS SHALL BE SCH 40 TAPE-WRAPPED GALVANIZED STEEL OR DUCTILE IRON. PIPE SHALL HAVE A MINIMUM CENTERLINE BURY DEPTH OF 36".
9. MARK END OF PIPE W/STAKE, EXTENDING AT LEAST 2 FEET ABOVE GRADE. COORDINATE W/LANDSCAPE ARCHITECT ON EXACT LOCATION OF CONNECTION TO IRRIGATION SYSTEM.
10. PROVIDE A PUMP CONTROL PANEL W/PLC, VFD, AND OTHER EQUIPMENT. PANEL SHALL BE UL-LISTED AND HOUSED IN A LOCKABLE UL TYPE 3R ENCLOSURE SUITABLE FOR OUTDOOR USE, SEE SPECIFICATION. PANEL SHALL BE ORIENTED SO THE SCREEN IS FACING NORTH.
11. ALL ABOVE-GRADE CONDUIT SHALL BE GALVANIZED THREADED RIGID STEEL AND ALL BURIED CONDUIT SHALL BE SCHEDULE 40 PVC, BETWEEN THE WELL, TRANSDUCER, FLOW METER, AND THE PUMP CONTROL PANEL.
12. CONTRACTOR TO COORDINATE W/OWNER'S REPRESENTATIVE WHO WILL PROVIDE 480V, 3-PHASE POWER SUPPLY. OWNER WILL PAY FOR IDAHO POWER SERVICES.



NOTE:
CONTRACTOR TO COORDINATE W/LANDSCAPE ARCHITECT ON DIRECTION OF BURIED DISCHARGE PIPING FROM WELL. DIRECTION WILL DEPEND ON CONNECTION TO IRRIGATION LINE, POWER SUPPLY, AND WELL LOCATION.

PLAN VIEW SCHEMATIC
NOT TO SCALE

SPF WATER ENGINEERING
300 East Mallard Drive, Suite 350
Boise, Idaho 83706
Tel (208) 383-4140 Fax (208) 383-4156

BRAVES ATHLETIC COMPLEX
IRRIGATION PUMP SYSTEM
MECHANICAL SCHEMATIC

SCANNED JAN 25 2023

PROFESSIONAL ENGINEER LICENSED 6/16/17 9818 STATE OF IDAHO ROBERT ROY HARGROVE

ITEM	REVISIONS DESCRIPTION	DATE
0	ISSUE FOR CONSTRUCTION	6/16/17

VERIFY SCALE
0 1/2 1
BAR MEASURES ONE-INCH ON FULL SIZE DRAWING.

PROJECT:	4740211
DESIGNED:	RRH
DRAWN:	DB
CHECKED:	KG

M-100

xylem
Let's Solve Water

External Goulds

Attention: Kent Gingrich

June 3, 2017
9001-170603-001 - 0

Kent Irrigation Project

Thank you for your inquiry. Please find enclosed our quotation for your review and acceptance.

Please let me know if you have any questions or require any further clarification.

Respectfully,

Matt Clemens

CH Spencer & Company

mclemens@chspencer.com

SCANNED
JAN 25 2023

GOULDS WATER TECHNOLOGY
a xylem brand

TURBINE SUBMITTAL

Quote Number: 9001-170603-001:1
Model: VIS-WF-T
Size: 6CHC 5 Stage(s)

OPERATING CONDITIONS

Temp / SG:	70.00° F / SP.GR 0.9999
Fluid type:	Water
Vapor pressure	0.3633 psi
Viscosity	0.9695 cP
Specified flow:	270.00 USGPM
Total dynamic head:	271.00 ft
Pumping level:	60.00 ft

PERFORMANCE AT 3450 RPM

Bowl efficiency:	75.40 % @design, 78.50 % Best Efficiency
Run out capacity:	360.00 USGPM
Power:	24 Hp @design, 25.70 Hp NOL
NPSHr:	15.60 ft @design
Design thrust:	580.50 lb @design
Shut off pressure:	168.38 psi

MATERIALS AND DIMENSIONS

Bowl:	Cast Iron CL30 Enamel
Bowl Wear Ring Material:	Bronze, AL C95400
Impeller:	316SS
Impeller Wear Ring Material:	Aluminum bronze
Impeller Balance:	Mnf.Standard
Impeller Lock Method:	Taper lock
Impeller diameter:	4.000 inch
Bowl shaft:	416SS, 1.000 inch diam.
Suction adapter bearings	Bronze C90300 "G" Modified
Bowl bearings:	Bronze
Suction adapter:	Ductile Iron 65-45-12
Bowl features	No Added Features
TPL:	0.00 ft
Sump/Pit Depth:	80.00 ft
Documentation:	Standard pump installation and operation manual and order data

DRIVER

Type:	Standard
Manufacturer:	CentriPro
Rating:	30 Hp [22.4 kW]
Motor Diameter / Frame / Enclosure:	6 inch / 6 inch / SUBM
Phase / Frequency / Volts	3 / 60 Hz / 460
Speed:	3600 RPM
Construction:	STD

DO NOT USE FOR CONSTRUCTION UNLESS CERTIFIED	
Certified by:	
Date	
Quotation number:	9001-170603-001
Project:	Kent Irrigation Project
Tag:	

SCANNED
JAN 25 2023

Coupling material: SST 416

TESTING

Hydrostatic: None
Performance: Performance Testing (Non-Witness): Lab Motor, Bowl Assembly
Final Inspection: None
Other: None

COATING

Coating information: Tnemec 141; 16 mils; Bowl Assembly - STD; Riser Assembly - STD; Head Assembly - STD

ADDITIONAL FEATURES

Check valve: Ductile Iron; Fem X Fem NPT Threaded
Sanitary Well Seal: No
Additional bowl features:
Additional riser features:
Additional driver features:
Additional head features:
Additional misc. features:

WEIGHTS

Total bowl weight: 135 lbs
Column weight: 863 lbs
Head weight: 0 lbs
Driver weight: 209 lbs
Total unit weight: 1207 lbs

Our offer does not include specific review and incorporation of any Statutory or Regulatory Requirements and the offer is limited to the requirements of the design specifications. Should any Statutory or Regulatory requirements need to be reviewed and incorporated then the Customer is responsible to identify those and provide copies for review and revision of our offer.

Our quotation is offered in accordance with our comments and exceptions identified in our proposal and governed by our standard terms and conditions of sale – Xylem Americas attached hereafter.

For units requiring performance test, all performance tests will be conducted per ANSI/HI 14.6 standards unless otherwise noted in the selection software submittal documents. Test results meeting with grade 2B tolerances for pumps with a rated shaft power of 134HP or less and grade 1B for greater than 134HP will be considered passing.

Customer is responsible for verifying that the recommendations made and the materials selected are satisfactory for the Customer's intended environment and Customer's use of the selected pump. Customer is responsible for determining the suitability of Xylem recommendations for all operating conditions within Customer's and/or End User's control. Xylem disclaims all warranties, express or implied warranties, including, but not limited to, warranties of merchantability and fitness for a particular purpose and all express warranties other than the limited express warranty set forth in the attached standard terms and conditions of sale – Xylem Americas attached hereafter.

Xylem does not guarantee any pump intake configuration. The hydraulic and structural adequacies of these structures are the sole responsibility of the Customer or his representatives. Further, Xylem accepts no liability arising out of unsatisfactory pump intake field operating conditions.

The Customer or his representatives are referred to the Hydraulic Institute Standards for recommendations on pump intake design. To optimize the hydraulic design of a field pump intake configuration, the Customer should strongly consider performing a detailed scale model pump intake study. However, the adequacies of these recommendations are the sole responsibility of the Customer.

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Certified by:	
Date	
Quotation number:	9001-170603-001
Project:	Kent Irrigation Project
Tag:	

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GOULDS WATER TECHNOLOGY
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HYDRAULIC ANALYSIS

Quote Number: 9001-170603-001:1
Model: VIS-WF-T
Size: 6CHC 5 Stage(s)

OVERALL PUMP PARAMETERS

Capacity:	270.00 USGPM	Total Dynamic Head:	271.00 ft
Total Pump Length:	0.00 ft	Impeller Trim:	4.000 inch
Pump Type:	VIS -Submersible Vertical Turbine (Borehole) Pumps	Number of Stages:	5
Pump K-Factor:	2.10 lbs/ft	Pumping Level:	60.00 ft
Additional Pump K-Factor:	2.10 lbs/ft		
Pump Operating Speed [RPM]:	3450		

BOWL DATA

Total Bowl Length:	39.960 inch	Bowl Shaft Limit :	138 Hp
Bowl Shaft Diameter:	1.000 inch	Bowl Shaft Material:	416SS
Bowl Diameter:	5.500 inch		

COLUMN DATA

Column Diameter :	4 inch	Column Elongation:	0.00314 inch
Column Wall Thickness:	0.230 inch	Shut Off Column Elongation:	0.00461 inch
Column Load:	392.20 lb		

HORSEPOWER DATA

Bowl Hp at Design:	24 Hp	Rating:	30 Hp [22.4 kW]
Thrust Load Loss:	0.00000 Hp		

OTHER DATA

Hydraulic Thrust:	569.00 lb	Actual Head Above Grade:	205.78 ft
Thrust at Shut Off:	828.32 lb	Shut Off Discharge Pressure:	168.38 psi
Column Loss:	4.68 ft	NPSHa:	34.00 ft
Head Loss:	0.54 ft	NPSHr:	15.60 ft @design
Total Loss:	5.22 ft	NPSH Margin:	2.00 ft
Thrust at Design:	580.50 lb		

EFFICIENCY DATA

Bowl Efficiency:	78.50 %	Overall Efficiency:	0.00 %
Motor Efficiency:	0.00 %	KWH per 1000 gallons:	0.00
Pump Efficiency:	73.90 %		

FLUID DATA

Fluid Type:	Water	Specific Gravity:	0.9999
Temperature:	70.00°F	Viscosity:	0.9695 cP

COMPONENT WEIGHTS

Bowl Weight:	135 lbs	Column Weight:	863 lbs
Head Weight:	0 lbs	Can Weight:	
Driver Weight:	209 lbs	Total Pump Weight:	1207 lbs

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Project Name	Kent Irrigation Project
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OUTLINE DRAWING

Quote Number: 9001-170603-001:1
Model: VIS-WF-T
Size: 6CHC 5 Stage(s)

PUMP DATA

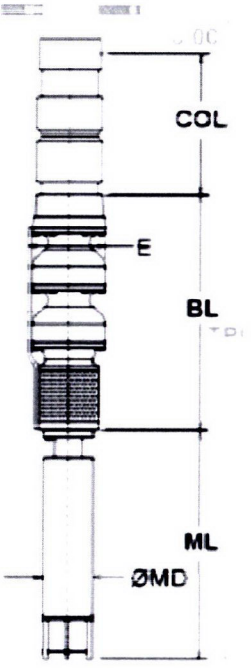
No. of Units	1.00	each
Model:	VIS-WF-T 6CHC	
Stages:	5	
Riser Size:	4	
Flow:	270.00	USGPM
Head:	271.00	ft
Driver Mfq:	CentriPro	
Rating:	30 Hp [22.4 kW]	
Speed:	3450	RPM
PH:	3	
Frequency:	60	Hz
Voltage:	460	

DIMENSIONS

AD	0.00	inch
BL	39.96	inch
COL	960.00	inch
DD	7.37	inch
MIN SUB	14.56	inch
DH	11.00	inch
G	13.50	inch
H	11.75	inch
HH	0.00	inch
J	1.00	inch
K	0	
MD	6	inch
ML	38.19	inch
E (R)	6.28	inch
TPL	1044.15	inch
CV Dia.		
Head Flanged Rating	150#	

Weights

Total bowl	135	lb
Total column	863.20	lb
Discharge head	0	lb
Driver	209	lb
Approx weight	1207	lb



No.	NOTES
1	*T.P.L. (Total Pump Length) is the distance to lowest projection on pump ± 1.0 inch.*
2	*Tolerance on all dimensions is .12 or ± .12 inch per 5 ft, whichever is greater.*
3	*All dimensions shown are in inches unless otherwise specified.*
4	*Drawing not to scale.*

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Date of certification	
Pump serial number	
Project Name	Kent Irrigation Project
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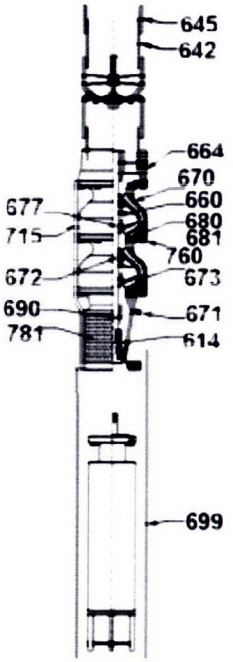
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CROSS SECTIONAL

Quote Number: 9001-170603-001:1
Model: VIS-WF-T
Size: 6CHC 5 Stage(s)

BILL OF MATERIAL

ITEM	Part Name	CODE	MATERIAL	ASTM#
Riser Assembly				
642	Column Pipe	6501	Black Pipe	A52-98
645	Column Coupling	6501	Black Pipe	A52-98
N/A	Check Valve	N/A	Ductile Iron; Fem X Fem NPT Threaded	N/A
Bowl Assembly				
614	Coupling Sub/Motor	2218	416SS	A582M-95b
660	Bowl-Shaft	2227	416SS	A582M-95b
661	Bearing – Discharge	1109	Bronze C90300 "G" Modified	B584-00
670	Bowl - Intermediate	6911	Cast Iron CL30 Enamel	A48-94e1
671	Sub Adapter	1018	Ductile Iron 65-45-12	B148-97e1
672	Bearing - Int Bowl	1109	Bronze C90300 "G" Modified	B584-00
673	Impeller	1203	316SS	A744M-00
677	Collet - Impeller	2217	416SS	A582-95b
680	Wear Ring - Bowl	1128	Bronze, AL C95400	B148-97e1
681	Wear Ring - Impeller	1126	Bronze, AL C95800	B148-97e1
690	Bearing-Suction	1109	Bronze C90300 "G" Modified	B584-00
-	-	-	-	-
715	Guard-Cable	3215	304SS	A240M-00
758	Capscrew-Hex (Mot)	2228	304SS	A276
760	Capscrew-Hex	2299	316SS	A276-00a
781	Screen-Suction	3211	316SS	A240M-00
789	Washer - Upthrust	6266	TIVAR 1000	N/A



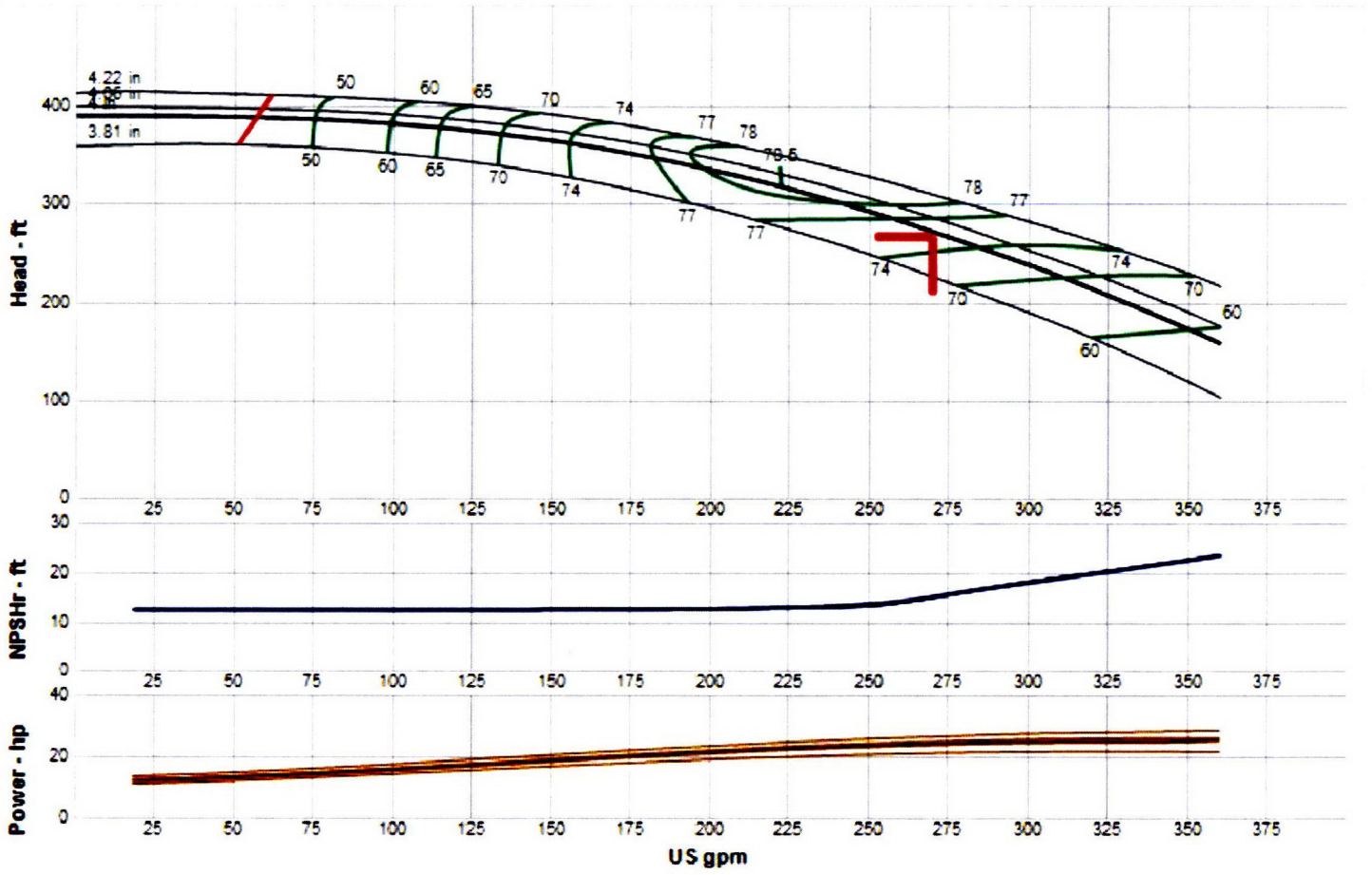
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PERFORMANCE CURVE

Quote Number: 9001-170603-001:1
Model: VIS-WF-T
Size: 6CHC 5 Stage(s)



Driver Size Criteria:	Max power on design curve (NOL)	Best Efficiency:	78.50 %
Speed:	3450 RPM	Flow at BEP:	222.00 USGPM
Impeller Trim:	4.000 inch	Min Flow:	55.60 USGPM
Additional Impeller Trim:	4.0000 inch	Derate Factor:	1.0000
Frequency:	60 Hz	Specified NPSH Avail:	34.00 ft
Impeller Maximum Trim:	4.220 inch	NPSH Required:	15.60 ft
Specified Flow:	270.00 USGPM	Shut-Off Head:	389.00 ft
Specified Head:	265.000 ft	Fluid Type:	Water
Head at Design:	271.00 ft	Temperature / Specifc Gravity:	70.00°F / 0.9999
Efficiency at Design:	75.40 %	Viscosity:	0.9695 cP
Power at Design:	24 Hp	Allowable Sphere Size:	0.47 inch
Flow on Design Trim @ Max Pwr:	360.00 USGPM	Thrust K Factor:	2.10 lbs/ft
Max Power on Design Curve:	25.70 Hp	Additional Thrust K Factor:	2.10 lbs/ft

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1. Agreement, Integration and Conflict of Terms. These terms and conditions, together with any special conditions expressly incorporated thereto in the quotation or sales form, are to govern any sale between the Seller and Buyer. The Seller shall mean the applicable affiliate of Xylem Inc. that is party to the Agreement ("Seller"). The Buyer shall mean the entity that is party to the Agreement with Seller. This writing is an offer or counteroffer by Seller to sell the goods and/or services set forth on the quotation or sales form subject to these terms and conditions and is expressly made conditional on Buyer's assent to these terms and conditions. Acceptance by Buyer is expressly limited to these terms and conditions. Any additional or different terms and conditions contained in Buyer's purchase order or other communication shall not be effective or binding upon Seller unless specifically agreed to in writing by Seller; Seller hereby objects to any such conditions, and the failure of Seller to object to specific provisions contained in any purchase order or other communication from Buyer shall not be construed as a waiver of these terms and conditions nor an acceptance of any such provisions. Neither Seller's commencement of performance nor delivery shall be deemed or construed as acceptance of Buyer's additional or different terms and conditions. Buyer agrees that these terms and conditions, together with any accompanying quotation and any special conditions or limited process guarantees or documents referred to or included within the quotation and expressly made a part of this agreement, (e.g., drawings, illustrations, specifications, or diagrams), is the complete and final agreement between Buyer and the Seller ("Agreement"). In the case of any conflict among the foregoing documents, these terms shall take precedence with the exception of price and delivery which shall be governed by the order acknowledgment (if any) and invoice, and the warranty which shall be governed by Seller's product documentation. This Agreement supersedes all prior negotiations, representations, or agreements, either written or oral, between the parties and, further, can only be altered, modified or amended with the express written consent of Seller.

2. Quotation, Withdrawal, Expiration. Quotes are valid for thirty (30) calendar days from the date of issuance unless otherwise provided therein. Seller reserves the right to cancel or withdraw the quotation at any time with or without notice or cause prior to acceptance by Buyer. There is no Agreement if any conditions specified within the quotation ***or*** sales form are not completed by Buyer to Seller's satisfaction within thirty (30) calendar days of Seller's acknowledgement in writing of an order. Seller nevertheless reserves its right to accept any contractual documents received from Buyer after this 30-day period.

3. Prices. Prices apply to the specific quantities stated on the quotation or sales form. Prices include standard packing according to Seller's specifications for delivery. All costs and taxes for special packing requested by Buyer, including packing for exports, shall be paid by Buyer as an additional charge. Prices are subject to change without notice. The price for the goods does not include any applicable sales, use, excise, GST, VAT, or similar tax, duties or levies. Buyer shall have the responsibility for the payment of such taxes if applicable.

4. Payment Terms. Seller reserves the right to require payment in advance or C.O.D. and otherwise modify credit terms should Buyer's credit standing not meet Seller's acceptance. Unless different payment terms are expressly set forth in the quotation or sales form or order acknowledgment or Sales Policy Manual, goods will be invoiced upon shipment. Payment shall be made in the local currency where Seller's office is located and to which the order has been submitted. Payment in full is due within thirty (30) days from the invoice date unless otherwise stated in Seller's documentation. In the event payment is not made when due, Buyer agrees to pay Seller a service or finance charge of the lesser of (i) one and one-half percent (1.5%) per month (18% per annum), or (ii) the highest rate permitted by applicable law, on the unpaid balance of the invoice from and after the invoice due date. Buyer is responsible for all costs and expenses associated with any checks returned due to insufficient funds. All credit sales are subject to prior approval of Seller's credit department. Export shipments will require payment prior to shipment or an appropriate Letter of Credit. If, during the performance of the contract with Buyer, the financial responsibility or condition of Buyer is such that Seller in good faith deems itself insecure, or if Buyer becomes insolvent, or if a material change in the ownership of Buyer occurs, or if Buyer fails to make any payments in accordance with the terms of its contract with Seller, then, in any such event, Seller is not obligated to continue performance under the contract and may stop goods in transit and defer or decline to make delivery of goods, except upon receipt of satisfactory security or cash payments in advance, or Seller may terminate the order upon written notice to Buyer without further obligation to Buyer whatsoever. If Buyer fails to make payments or fails to furnish security satisfactory to Seller, then Seller shall also have the right to enforce payment to the full contract price of the work completed and in process. Upon default by Buyer in payment when due, Buyer shall immediately pay to Seller the entire unpaid amounts for any and all shipments made to Buyer irrespective of the terms of said shipment and whether said shipments are made pursuant to this Agreement or any other contract of sale between Seller and Buyer, and Seller may withhold all subsequent shipments until the full amount is settled. Acceptance by Seller of less than full payment shall not be a waiver of any of its rights hereunder. Buyer shall not assign or transfer this Agreement or any interest in it, or monies payable under it, without the written consent of Seller and any assignment made without such consent shall be null and void.

5. Title, Delivery, Risk of Loss. Delivery dates are estimates, and time is not of the essence. Unless otherwise specified by Seller, delivery and transfer of risk of loss for shipments to Buyers that are not Related Party Buyers will be made Incoterms 2010 Ex Works (Seller's plant or Distribution Center). Title shall pass when risk of loss transfers. Seller shall not be responsible to Buyer for any loss, whether direct, indirect, incidental or consequential in nature, including without limitation loss of profits or liquidated damages, arising out of or relating to any failure of the goods to be delivered by the specified delivery date. In the absence of specific instructions, Seller will select the carrier. Buyer shall reimburse Seller for the additional cost of its performance resulting from inaccurate or lack of delivery instructions, or by any act or omission on Buyer's part. Any such additional cost may include, but is not limited to, storage, insurance, protection, re-inspection and delivery expenses. Buyer further agrees that any payment due on delivery shall be made on delivery into storage as though goods had been delivered in accordance with the order.

Related Party Buyers are defined as Buyers, directly or indirectly, owned more than 50% by Xylem Inc. or under significant or joint control by Xylem Inc. For export shipments from the USA to Related Party Buyers, title and risk of loss for the material shall pass to the Related Party Buyer at the port of destination. Incoterm 2010 shall be DAP (Destination). Related Party Buyer shall be importer of record for any customs clearance. For shipments to Related Party Buyers that are not export shipments from the USA, delivery and transfer of risk of loss shall be Incoterm 2010 FCA (Seller's plant or Distribution Center) unless otherwise specified. Title shall pass when the risk of loss passes to Buyer.

Buyer grants to Seller a continuing security interest in and a lien upon the products and the proceeds thereof (including insurance proceeds), as security for the payment of all such amounts and the performance by Buyer of all of its obligations to Seller pursuant to this Agreement and all such other sales, and Buyer shall have no right to sell, encumber or dispose of the products. Buyer shall execute any and all financing statements and other documents and instruments and do and perform any and all other acts and things which Seller may consider necessary, desirable or appropriate to establish, perfect or protect Seller's title, security interest and lien. In addition, Buyer authorizes Seller and its agents and employees to execute any and all such documents and instruments and do and perform any and all such acts and things, at Buyer's expense, in Buyer's name and on its behalf. Such documents and instruments may also be filed without the signature of Buyer to the extent permitted by law.

6. Warranty. For goods sold by Seller to Buyer that are used by Buyer for personal, family or household purposes, Seller warrants the goods to Buyer on the terms of Seller's limited warranty available on Seller's website. For goods sold by Seller to Buyer for any other purpose, Seller warrants that the goods sold to Buyer hereunder (with the exception of membranes, seals, gaskets, elastomer materials, coatings and other "wear parts" or consumables all of which are not warranted except as otherwise provided in the quotation or sales form) will be (i) be built in accordance with the specifications referred to in the quotation or sales form, if such specifications are expressly made a part of this Agreement, and (ii) free from defects in material and workmanship for a period of one (1) year from the date of installation or eighteen (18) months

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from the date of shipment (which date of shipment shall not be greater than thirty (30) days after receipt of notice that the goods are ready to ship), whichever shall occur first, unless a longer period is provided by law or is specified in the product documentation (the "Warranty"). For services, the warranty period shall be three (3) months from the date of invoice unless otherwise expressly set forth in the quotation or sales form or order acknowledgment.

Except as otherwise provided by law, Seller shall, at its option and at no cost to Buyer, either repair or replace any product which fails to conform with the Warranty; provided, however, that under either option, Seller shall not be obligated to remove the defective product or install the replaced or repaired product and Buyer shall be responsible for all other costs, including, but not limited to, service costs, shipping fees and expenses. Seller shall have complete discretion as to the method or means of repair or replacement. Buyer's failure to comply with Seller's repair or replacement directions shall constitute a waiver of its rights and render all warranties void. Any parts repaired or replaced by Seller under the Warranty are warranted only for the balance of the warranty period on the parts that were repaired or replaced. The Warranty is conditioned on Buyer giving written notice to Seller of any defects in material or workmanship of warranted goods within ten (10) days of the date when any defects are first manifest. Seller shall have no warranty obligations to Buyer with respect to any product or parts of a product that: (a) have been repaired by third parties other than Seller or without Seller's written approval; (b) have been subject to misuse, misapplication, neglect, alteration, accident, or physical damage; (c) have been used in a manner contrary to Seller's instructions for installation, operation and maintenance; (d) have been damaged from ordinary wear and tear, corrosion, or chemical attack; (e) have been damaged due to abnormal conditions, vibration, failure to properly prime, or operation without flow; (f) have been damaged due to a defective power supply or improper electrical protection; or (g) have been damaged resulting from the use of accessory equipment not sold by Seller or not approved by Seller in connection with products supplied by Seller hereunder. In any case of products not manufactured by Seller, there is no warranty from Seller; however, Seller will extend to Buyer any warranty received from Seller's supplier of such products.

THE FOREGOING WARRANTY IS EXCLUSIVE AND IN LIEU OF ANY AND ALL OTHER EXPRESS OR IMPLIED WARRANTIES, GUARANTEES, CONDITIONS OR TERMS OF WHATEVER NATURE RELATING TO THE GOODS PROVIDED HEREUNDER, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE HEREBY EXPRESSLY DISCLAIMED AND EXCLUDED. EXCEPT AS OTHERWISE PROVIDED BY LAW, BUYER'S EXCLUSIVE REMEDY AND SELLER'S AGGREGATE LIABILITY FOR BREACH OF ANY OF THE FOREGOING WARRANTIES ARE LIMITED TO REPAIRING OR REPLACING THE PRODUCT AND SHALL IN ALL CASES BE LIMITED TO THE AMOUNT PAID BY THE BUYER HEREUNDER. IN NO EVENT IS SELLER LIABLE FOR ANY OTHER FORM OF DAMAGES, WHETHER DIRECT, INDIRECT, LIQUIDATED, INCIDENTAL, CONSEQUENTIAL, PUNITIVE, EXEMPLARY OR SPECIAL DAMAGES, INCLUDING BUT NOT LIMITED TO LOSS OF PROFIT, LOSS OF ANTICIPATED SAVINGS OR REVENUE, LOSS OF INCOME, LOSS OF BUSINESS, LOSS OF PRODUCTION, LOSS OF OPPORTUNITY OR LOSS OF REPUTATION.

7. Inspection. Buyer shall have the right to inspect the goods upon their receipt. When delivery is to Buyer's site or to a project site ("Site"), Buyer shall notify Seller in writing of any nonconformity of the goods with this Agreement within three (3) days from receipt by Buyer, unless a shorter period is required in Seller's quotation. For all other deliveries, Buyer shall notify Seller in writing of any nonconformity with this Agreement within fourteen (14) days from receipt by Buyer. Failure to give such applicable notice shall constitute a waiver of Buyer's right to inspect and/or reject the goods for nonconformity and shall be equivalent to an irrevocable acceptance of the goods by Buyer. Claims for loss of or damage to goods in transit must be made to the carrier, and not to Seller.

8. Seller's Limitation of Liability. EXCEPT AS OTHERWISE PROVIDED BY LAW, IN NO EVENT SHALL SELLER'S LIABILITY UNDER THIS AGREEMENT EXCEED THE AMOUNT PAID BY BUYER UNDER THIS AGREEMENT. SELLER SHALL HAVE NO LIABILITY FOR LOSS OF PROFIT, LOSS OF ANTICIPATED SAVINGS OR REVENUE, LOSS OF INCOME, LOSS OF BUSINESS, LOSS OF PRODUCTION, LOSS OF OPPORTUNITY, LOSS OF REPUTATION, LIQUIDATED, DIRECT, INDIRECT, CONSEQUENTIAL, INCIDENTAL, PUNITIVE OR EXEMPLARY DAMAGES. THE FOREGOING LIMITATIONS OF LIABILITY SHALL BE EFFECTIVE WITHOUT REGARD TO SELLER'S ACTS OR OMISSIONS OR NEGLIGENCE OR STRICT LIABILITY IN PERFORMANCE OR NON-PERFORMANCE HEREUNDER.

9. USED EQUIPMENT. NOTWITHSTANDING ANYTHING TO THE CONTRARY HEREIN, USED EQUIPMENT IS SOLD IN AN AS IS, WHERE IS CONDITION. SELLER MAKES NO REPRESENTTIONS OR WARRANTIES OF ANY KIND, EXPRESS OR IMPLIED, AS TO THE NATURE, QUALITY OR CONDITION OF THE EQUIPMENT, OR ITS SUITABILITY FOR ANY USE, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, UNLESS EXPRESSLY AGREED UPON IN WRITING BETWEEN THE PARTIES. SELLER SHALL HAVE NO LIABILITY TO BUYER HEREUNDER OR IN CONNECTION WITH THE EQUIPMENT, INCLUDING WITHOUT LIMITATION, FOR LOSS OF PROFIT, LOSS OF INCOME, LOSS OF PRODUCTION, LOSS OF OPPORTUNITY, INDIRECT, CONSEQUENTIAL, INCIDENTAL, PUNITIVE OR EXEMPLARY DAMAGES.

10. Force Majeure. Seller may cancel or suspend this Agreement and Seller shall have no liability for any failure to deliver or perform, or for any delay in delivering or performing any obligations, due to acts or omissions of Buyer and/or its contractors, or due to circumstances beyond Seller's reasonable control, including but not limited to acts of God, fire, flood or other natural disasters, war and civil disturbance, riot, acts of governments, terrorism, disease, currency restrictions, labor shortages or disputes, unavailability of materials, fuel, power, energy or transportation facilities, failures of suppliers or subcontractors to effect deliveries, in which case the time for performance shall be extended in an amount equal to the excused period, provided that Seller shall have, as soon as reasonably practicable after it has actual knowledge of the beginning of any excusable delay, notified Buyer of such delay, of the reason therefor and of the probable duration and consequence thereof. Seller shall use its best efforts to eliminate the cause of the delay, interruption or cessation and to resume performance of its obligations hereunder with the least possible delay.

11. Cancellation. Except as otherwise provided in this Agreement, no order may be cancelled on special or made-to-order goods or unless otherwise requested in writing by either party and accepted in writing by the other. In the event of a cancellation by Buyer, Buyer shall, within thirty (30) days of such cancellation, pay Seller a cancellation fee, which shall include all costs and expenses incurred by Seller prior to the receipt of the request for cancellation including, but not limited to, all commitments to its suppliers, subcontractors and others, all fully burdened labor and overhead expended by Seller, plus a reasonable profit charge." Return of goods shall be in accordance with Seller's most current Return Materials Authorization and subject to a minimum fifteen percent (15%) restocking fee, unless otherwise specified.

Notwithstanding anything to the contrary herein, in the event of the commencement by or against Buyer of any voluntary or involuntary proceedings in bankruptcy or insolvency, or in the event Buyer shall be adjusted bankrupt, make a general assignment for the benefit of its creditors, or if a receiver shall be appointed on account of Buyer's insolvency, or if Buyer fails to make payment when due under this Agreement, or in the event Buyer does not correct or, if immediate correction is not possible, commence and diligently continue action to correct any default of Buyer to comply with

any of the provisions or requirements of this Agreement within ten (10) calendar days after being notified in writing of such default by Seller, Seller may, by written notice to Buyer, without prejudice to any other rights or remedies which Seller may have, terminate its further performance of this Agreement. In the

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event of such termination, Seller shall be entitled to receive payment as if Buyer has cancelled the Agreement as per the preceding paragraph. Seller may nevertheless elect to complete its performance of this Agreement by any means it chooses. Buyer agrees to be responsible for any additional costs incurred by Seller in so doing. Upon termination of this Agreement, the rights, obligations and liabilities of the parties which shall have arisen or been incurred under this Agreement prior to its termination shall survive such termination.

12. Drawings. All drawings are the property of Seller. Seller does not supply detailed or shop working drawings of the goods; however, Seller will supply necessary installation drawings. The drawings and bulletin illustrations submitted with Seller's quotation show general type, arrangement and approximate dimensions of the goods to be furnished for Buyer's information only and Seller makes no representation or warranty regarding their accuracy. Unless expressly stated to the contrary within the quotation or sales form, all drawings, illustrations, specifications or diagrams form no part of this Agreement. Seller reserves the right to alter such details in design or arrangement of its goods which, in its judgment, constitute an improvement in construction, application or operation. All engineering information necessary for installation of the goods shall be forwarded by Seller to Buyer to upon Buyer's acceptance of this Agreement. After Buyer's acceptance of this Agreement, any changes in the type of goods, the arrangement of the goods, or application of the goods requested by Buyer will be made at Buyer's expense. Instructions necessary for installation, operating and maintenance will be supplied when the goods are shipped.

13. Proprietary Information, Injunction. Seller's designs, illustrations, drawings, specifications, technical data, catalogues, "know-how", economic or other business or manufacturing information (collectively "Proprietary Information") disclosed to Buyer shall be deemed proprietary and confidential to Seller. Buyer agrees not to disclose, use, or reproduce any Proprietary Information without first having obtained Seller's express written consent. Buyer's agreement to refrain from disclosing, using or reproducing Proprietary Information shall survive completion of the work under this Agreement. Buyer acknowledges that its improper disclosure of Proprietary Information to any third party will result in Seller's suffering irreparable harm. Seller may seek injunctive or equitable relief to prevent Buyer's unauthorized disclosure.

14. Installation and Start-up. Unless otherwise agreed to in writing by Seller, installation shall be the sole responsibility of Buyer. Where start-up service is required with respect to the goods purchased hereunder, it must be performed by Seller's authorized personnel or agents; otherwise, the Warranty is void. In the event Buyer has engaged Seller to provide an engineer for start-up supervision, such engineer will function in a supervisory capacity only and Seller shall have no responsibility for the quality of workmanship of the installation. In any event, Buyer understands and agrees that it shall furnish, at Buyer's expense, all necessary foundations, supplies, labor and facilities that might be required to install and operate the goods.

15. Specifications; Back-charges. Changes in specifications requested by Buyer are subject to approval in writing by Seller. In the event such changes are approved, the price for the goods and the delivery schedule shall be changed to reflect such changes.

Buyer shall not make purchases nor shall Buyer incur any labor that would result in a back charge to Seller without prior written consent of an authorized employee of Seller.

16. Buyer Warranty. Buyer warrants the accuracy of any and all information relating to the details of its operating conditions, including temperatures, pressures, and where applicable, the nature of all hazardous materials. Seller can justifiably rely upon the accuracy of Buyer's information in its performance. Should Buyer's information prove inaccurate, Buyer agrees to reimburse Seller for any losses, liabilities, damages and expenses that Seller may have incurred as a result of any inaccurate information provided by Buyer to Seller.

17. Minimum Order. Seller reserves the right to refuse to process any order that does not meet quantity requirements that Seller may establish for any given product or group of products.

18. Quality Levels. Prices are based on quality levels commensurate with normal processing. If a different quality level is required, Buyer must specify its requirements, as approved in writing by Seller, and pay any additional costs that may be applicable.

19. Product Recalls. In cases where Buyer purchases for resale, Buyer shall take all reasonable steps (including, without limitation, those measures prescribed by the seller): (a) to ensure that all customers of the Buyer and authorised repairers who own or use affected products are advised of every applicable recall campaign of which the Buyer is notified by the Seller; (b) to ensure that modifications notified to Buyer by Seller by means of service campaigns, recall campaigns, service programmes or otherwise are made with respect to any products sold or serviced by Buyer to its customers or authorized repairers. The reimbursement of Buyer for parts and labor used in making those modifications shall be as set forth in the campaign or program instructions. Without the prior consent of the Seller, the Buyer shall not disclose to any third party the information contained in service campaign, recall campaign or service programme literature. Should Buyer fail to perform any of the actions required under this section, Seller shall have the right to obtain names and address of the Buyer's customers and shall be entitled to get into direct contact which such customers.

20. GOVERNING LAW. THE TERMS OF THIS AGREEMENT AND ALL RIGHTS AND OBLIGATIONS HEREUNDER SHALL BE GOVERNED BY THE LAWS OF THE JURISDICTION WHERE SELLER'S OFFICE IS LOCATED TO WHICH THIS ORDER HAS BEEN SUBMITTED (WITHOUT REFERENCE TO PRINCIPLES OF CONFLICTS OF LAWS). THE RIGHTS AND OBLIGATIONS OF THE PARTIES HEREUNDER SHALL NOT BE GOVERNED BY THE 1980 U.N. CONVENTION ON CONTRACTS FOR THE INTERNATIONAL SALE OF GOODS.

21. Export Regulation. Seller's products, including any software, documentation and any related technical data included with, or contained in, or utilized by such products or deliverables, may be subject to applicable export laws and regulations, including United States Export Administration Regulations, and Buyer shall complay with all such applicable laws and regulations. In particular, the Buyer shall not, and shall not permit any third parties to, directly or indirectly, export, re-export or release any product to any jurisdiction or country to which, or any party to whom, the export, re-export or release of any product is prohibited by applicable law, regulation or rule. The Buyer shall be responsible for any breach of this Section 20.

22. Titles. The section titles are for reference only, and shall not limit or restrict the interpretation or construction of this Agreement.

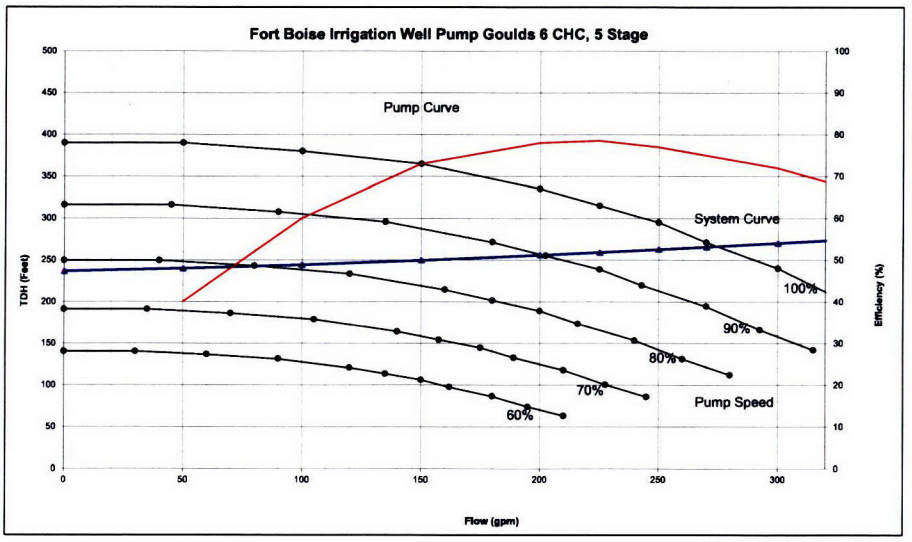
23. Waiver. Seller's failure to insist, in any one or more instances, upon Buyer's performance of this Agreement, or to exercise any rights conferred, shall not constitute a waiver or relinquishment of any such right or right to insist upon Buyer's performance in any other regard.

24. Severability. The partial or complete invalidity of any one or more provisions of this Agreement shall not affect the validity or continuing force and effect of any other provision.

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Number of Stages: 5

		Pump VFD Curves											System Curve							
			100%	of speed	90%	of speed	80%	of speed	70%	of speed	60%	of speed		Well PWL	Column Loss	Pipeline Loss	Lift	Minor Losses	Discharge Pressure	TDH
gpm	head (ft)	Efficiency	gpm	head (ft)	gpm	head (ft)	gpm	head (ft)	gpm	head (ft)	gpm	head (ft)	gpm	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)
0	390		0	390	0	316	0	249.6	0	191	0	140	0	40	0.0	0.0	0	0.0	196	236
50	390	40	50	390	45	316	40	249.6	35	191	30	140	50	43	0.3	0.1	0	0.2	196	240
100	380	60	100	380	90	308	80	243.2	70	186	60	137	100	46	0.9	0.4	0	0.8	196	244
150	365	73	150	365	135	296	120	233.6	105	179	90	131	150	49	1.9	0.9	0	1.6	196	250
200	335	78	200	335	180	271	160	214.4	140	164	120	121	200	52	3.3	1.6	0	2.8	196	256
225	315	78.5	225	315	203	255	180	201.6	158	154	135	113	225	53	4.1	2.0	0	3.5	196	259
250	295	77	250	295	225	239	200	188.8	175	145	150	106	250	55	5.0	2.4	0	4.2	196	263
270	271	75	270	271	243	220	216	173.44	189	133	162	98	270	56	5.7	2.7	0	4.9	196	268
300	240	72	300	240	270	194	240	153.6	210	118	180	86	300	58	7.0	3.3	0	5.9	196	270
325	205	68	325	205	293	166	260	131.2	228	100	195	74	325	59	8.1	3.9	0	6.9	196	274
350	175	60	350	175	315	142	280	112	245	86	210	63	350	61	9.3	4.4	0	7.9	196	279



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ATTACHMENT B – THEORETICAL DIVERSION RATE

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THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

Water Right No.: 63-34298
Reviewer: HDR
Date of Review: 2/8/2022

P/D No.:	Scenario 1	Scenario 2	Scenario 3	
PUMP HORSEPOWER	30	30	30	
BOOSTER HORSEPOWER	0	0	0	
PUMPING LEVEL	108	108	108	
DISCHARGE PRESSURE	65	75	85	
RATE OF FLOW (cfs)	**0.72**	**0.66**	**0.61**	**0.66**
RATE OF FLOW (gpm)	321.3	294.9	272.5	296.2

The above calculates the formula =

$$Q = \frac{8.8 * (\text{Efficiency}) * hp}{\text{depth to water} + 2.31*(\text{psi}) + \text{friction}}$$

Assumptions: %70 efficiency.
No Friction

Examiners Notes:

Schematics and well design plans show a Goulds 6 CHC 5 stage 30 hp submersible pump was installed in the well at 108 feet. Pumping level of 108' is described by the mechanical drawing included in Attachment A of the field exam report. Static water level was recorded at 37'7", the well was screened from 275 to 335 feet, a pumping test yielded a flow of 300 gpm with a total drawdown of 19 feet. A range of discharge pressures were used under what we would expect to see from municipal park irrigation systems. Average theoretical flow rate is 0.66 cfs.

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ATTACHMENT C – SPRINKLER SPEC SHEETS

SCANNED
JAN 25 2023

RAIN BIRD®

Tech Spec

8005 Series Rotors

Bigger, Better, Built to Last

The Rain Bird® 8005 Rotor is built rugged to withstand the harsh conditions and vandalism present in commercial rotor applications. It has been designed and tested to ensure the high reliability demanded by the market today. Its extensive customer identified features and 80 foot radius make it ideal for sportsfields, parks and other large turf applications.

Features

- Five year trade warranty.
- Memory Arc® returns the rotor to its original arc setting.
- Non-strippable drive mechanism prevents damage from vandals.
- Brass reinforcing shaft of the nozzle turret to riser withstands vandal kick.
- Optional stainless steel riser model helps deter vandalism on public turf areas.
- Full and part circle operation in one unit to reduce inventory requirements.
- Easy, wet, dry arc adjustment with slotted screwdriver through top of rotor from 50° to 330° part-circle, 360° non-reversing full-circle.
- Left and right side trips adjustable for ease of installation without turning the case and loosening the pipe connection.
- Seal-A-Matic™ (SAM) check device/riser to help prevent low head drainage.
- Water-lubricated gear drive.
- Rain Curtain™ nozzles for optimal distribution and close-in watering resulting in superior uniformity.
- Nozzles are interchangeable from the front with no special tools.
- Self-adjusting turbine stator allows nozzle replacement with no other adjustments required.
- Heavy duty retract spring ensures positive pop-down.
- Standard rubber cap. (Green)
- Optional Purple rubber cover for non-potable applications

Operating Range

- Radius: 57 to 81 feet (17,4 to 24,7 m)
- Pressure: 50 to 100 psi (3,5 to 6,9 bar)
- Flow: 11.1 to 36.3 gpm (2,54 to 8,24 m^3/h; 0,70 to 2,29 l/s)

Specifications

- 1" (26/34) NPT or BSP female threaded inlet
- SAM check device holds up to 10 feet (3,1 m) of head
- Rain Curtain nozzles: 12 - beige; 14 - light green; 16 - dark brown; 18 - dark blue; 20 - red; 22 - yellow; 24 - orange; 26 - white
- Nozzle outlet trajectory is 25°

Dimensions

- Exposed diameter: 1 7/8" (4,8 cm)
- Overall diameter: 3 1/8" (7,9 cm)
- Overall height: 10 1/8" (25,7 cm)
- Pop-up height: 5" (12,7 cm)

Note: Pop-up height is measured from cover to center of primary nozzle port. Overall body height is measured popped down.

Models

- 8005: 1" NPT female threaded inlet (plastic riser stem).
- 8005-SS: 1" NPT female threaded inlet (stainless steel covered riser stem).
- Optional rubber collar (black)
- Optional non-potable rubber collar (purple)

**All models available with BSP threads*



How To Specify

8005 - SS - NP - 26

- **Model** 8005 Series
- **Optional Feature** SS: Stainless Steel Riser
- **Optional Feature** NP: Non-Potable Cover
- **Nozzle Size** 26

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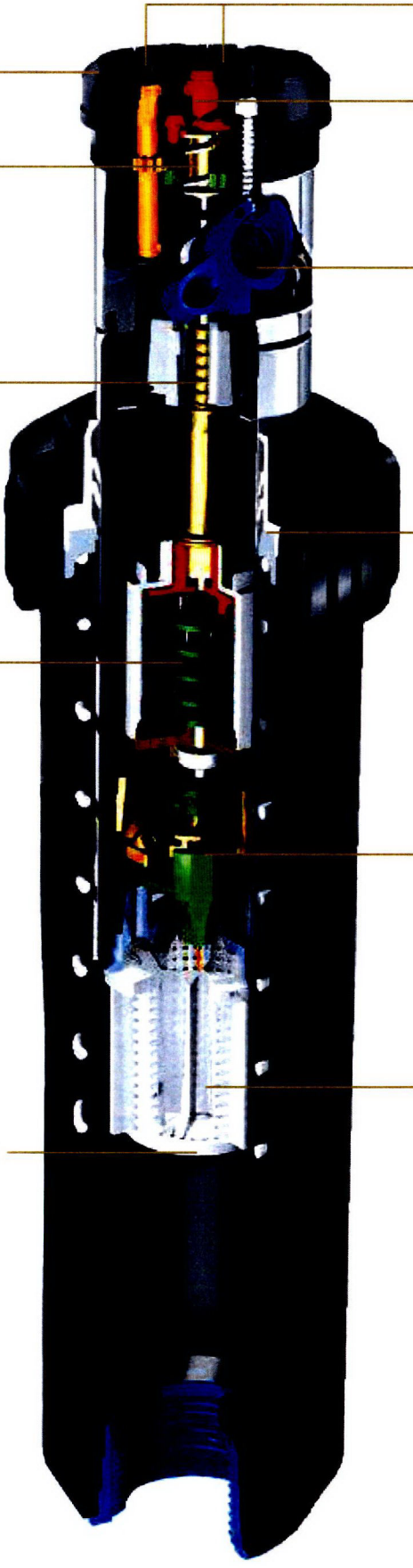
Standard Rubber Cover with 1⅞" Exposed Diameter
for enhanced safety on playing fields

Vandal Resistant Tripping Mechanism with Memory Arc®

Brass Reinforcing Shaft
brass shaft for enhanced protection against vandals

Non-Strippable Drive Mechanism

Seal-A-Matic™ (SAM) Check Device
prevents puddling/erosion



Adjustable Right & Left Trips

Adjustment Mechanism
for part-circle and non-reversing full-circle operation

Interchangeable Color-coded Rain Curtain™ Nozzles
for superior water distribution

Pressure-Activated Wiper Seal
protects the internals from debris

Self-Adjusting Stator
automatically adjusts when nozzle is changed

Filter with Built-In Freeze Protection

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8005 Nozzle Performance

Pressure psi	Nozzle	Radius ft.	Flow gpm	■ Precip in/h	▲ Precip in/h
50	● 04	39	3.8	0.48	0.56
	● 06	45	5.6	0.53	0.62
	● 08	49	6.6	0.53	0.61
	● 10	53	9.3	0.64	0.74
	● 12	57	11.1	0.66	0.76
	● 14	59	12.6	0.70	0.81
	● 16	61	14.3	0.74	0.85
	● 18	63	16.1	0.78	0.90
	● 20	65	18.6	0.85	0.98
	● 22	65	20.7	0.94	1.09
	● 24	63	22.3	1.08	1.25
	○ 26	65	24.3	1.11	1.28
60	● 04	39	3.8	0.48	0.56
	● 06	45	6.1	0.58	0.67
	● 08	49	8.4	0.67	0.78
	● 10	53	10.1	0.69	0.80
	● 12	59	12.0	0.66	0.77
	● 14	61	14.3	0.74	0.85
	● 16	65	15.9	0.72	0.84
	● 18	65	17.8	0.81	0.94
	● 20	67	20.1	0.86	1.00
	● 22	71	23.2	0.89	1.02
	● 24	69	24.7	1.00	1.15
	○ 26	73	26.7	0.96	1.11
70	● 04	39	4.7	0.60	0.69
	● 06	45	6.7	0.64	0.74
	● 08	49	9.0	0.72	0.83
	● 10	55	11.1	0.71	0.82
	● 12	59	13.2	0.73	0.84
	● 14	63	15.3	0.74	0.86
	● 16	67	17.2	0.74	0.85
	● 18	67	19.3	0.83	0.96
	● 20	71	22.0	0.84	0.97
	● 22	73	25.2	0.91	1.05
	● 24	75	27.0	0.92	1.07
	○ 26	75	29.4	1.01	1.16
80	● 04	39	5.0	0.63	0.73
	● 06	45	7.1	0.68	0.78
	● 08	49	9.8	0.79	0.91
	● 10	55	11.8	0.75	0.87
	● 12	61	14.2	0.73	0.85
	● 14	63	16.4	0.80	0.92
	● 16	67	18.6	0.80	0.92
	● 18	69	20.9	0.85	0.98
	● 20	71	23.9	0.91	1.05
	● 22	75	27.3	0.93	1.08
	● 24	77	29.2	0.95	1.10
	○ 26	79	31.5	0.97	1.12
90	● 12	61	14.7	0.76	0.88
	● 14	65	17.9	0.82	0.94
	● 16	69	20.0	0.81	0.93
	● 18	71	22.2	0.85	0.98
	● 20	73	25.3	0.91	1.06
	● 22	75	29.1	1.00	1.15
	● 24	79	31.0	0.96	1.10
	○ 26	79	33.7	1.04	1.20
100	● 20	75	26.8	0.85	0.97
	● 22	77	30.7	1.00	1.15
	● 24	79	32.8	1.01	1.17
	○ 26	81	36.3	1.07	1.23

Precipitation rates based on half-circle operation

■ *Square spacing based on 50% diameter of throw*

▲ *Triangular spacing based on 50% diameter of throw*

Performance data collected in zero wind conditions

Performance data derived from tests that conform with ASAE Standards; ASAE S398.1.

8005 Nozzle Performance METRIC

Pressure bar	Nozzle	Radius m	Flow m^3/h	Flow l/m	■ Precip mm/h	▲ Precip mm/h
3.5	● 4	11.9	0.86	14.38	12	14
	● 6	13.7	1.28	21.34	14	16
	● 8	14.9	1.59	25.50	14	16
	● 10	16.1	2.10	35.43	16	19
	● 12	17.5	2.52	42.27	16	19
	● 14	18.0	2.89	48.18	18	21
	● 16	18.7	3.28	54.59	19	22
	● 18	19.2	3.69	61.43	20	23
	● 20	19.9	4.25	70.83	21	25
	● 22	20.0	5.08	79.07	25	29
	● 24	19.3	5.11	85.10	27	32
	○ 26	20.0	5.57	92.67	28	32
4.0	● 4	11.9	0.93	14.38	13	15
	● 6	13.7	1.37	22.71	15	17
	● 8	14.9	1.75	30.44	16	18
	● 10	16.3	2.30	37.63	17	20
	● 12	17.7	2.70	44.74	17	20
	● 14	18.5	3.17	52.85	19	21
	● 16	19.6	3.54	58.98	18	21
	● 18	19.7	3.97	66.10	20	24
	● 20	20.3	4.50	74.95	22	25
	● 22	21.3	5.23	85.94	23	27
	● 24	20.7	5.50	91.69	26	30
	○ 26	21.8	6.01	99.26	25	29
4.5	● 4	11.9	1.00	16.18	14	16
	● 6	13.7	1.45	24.28	15	18
	● 8	14.9	1.92	32.99	17	20
	● 10	16.5	2.40	40.22	18	20
	● 12	18.0	2.87	47.81	18	20
	● 14	18.9	3.37	56.12	19	22
	● 16	20.1	3.77	62.77	19	22
	● 18	20.1	4.22	70.36	21	24
	● 20	21.1	4.79	79.87	22	25
	● 22	22.0	5.51	91.80	23	26
	● 24	22.0	5.88	98.08	24	28
	○ 26	22.6	6.42	106.44	25	29
5.0	● 4	11.9	1.06	18.08	15	17
	● 6	13.7	1.54	25.74	16	19
	● 8	14.9	2.09	34.83	19	22
	● 10	16.7	2.50	42.68	18	21
	● 12	18.3	3.05	50.92	18	21
	● 14	19.2	3.54	58.96	19	22
	● 16	20.4	3.99	66.44	19	22
	● 18	20.6	4.47	74.58	21	24
	● 20	21.6	5.11	85.08	22	25
	● 22	22.4	5.84	97.39	23	27
	● 24	23.0	6.26	104.29	24	27
	○ 26	23.2	6.80	113.28	25	29
5.5	● 4	11.9	1.13	18.90	16	18
	● 6	13.7	1.62	26.84	17	20
	● 8	14.9	2.25	37.02	20	23
	● 10	16.8	2.70	44.60	19	22
	● 12	18.5	3.23	53.66	19	22
	● 14	19.2	3.72	61.98	20	23
	● 16	20.4	4.22	70.28	20	23
	● 18	21.0	4.74	78.97	21	25
	● 20	21.6	5.42	90.30	23	27
	● 22	22.8	6.19	103.15	24	28
	● 24	23.5	6.62	110.33	24	28
	○ 26	24.1	7.14	119.05	25	28
6.0	● 12	18.6	3.30	55.07	19	22
	● 14	19.6	3.96	66.06	21	24
	● 16	20.9	4.45	74.12	20	24
	● 18	21.5	4.95	82.56	21	25
	● 20	22.1	5.65	94.18	23	27
	● 22	22.9	6.71	108.12	26	30
	● 24	23.9	6.92	115.31	24	28
	○ 26	24.1	7.50	125.08	26	30
6.2	● 14	19.8	4.06	67.75	21	24
	● 16	21.0	4.54	75.70	21	24
	● 18	21.7	5.04	84.02	21	25
6.5	● 20	22.5	5.89	98.19	23	27
	● 22	23.4	6.84	112.73	25	29
	● 24	24.1	7.22	120.25	25	29
	○ 26	24.3	7.91	131.76	27	31
6.9	● 20	22.9	6.09	101.43	23	27
	● 22	23.5	6.97	116.19	25	29
	● 24	24.1	7.45	124.14	26	30
	○ 26	24.7	8.24	137.39	27	31

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Specifications

The full- or part-circle sprinkler shall be a single stream, water lubricated, gear drive type capable of covering a ____ foot (meter) radius at a base pressure of ____ pounds per square inch (bar) with a discharge rate of ____ gallons per minute (l/h, m^3/h).

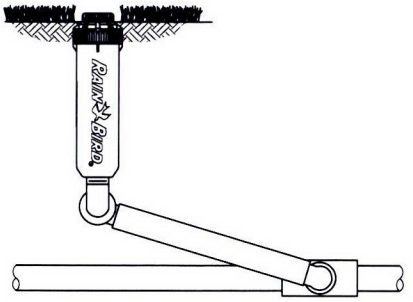
The sprinkler shall be capable of both full circle and part circle operation in the same unit. The mode of operation shall be selected by inserting a flat blade screwdriver in the top of the rubber cap and turning a selector approximately 45 degrees. The sprinkler shall not reverse direction during continuous operation in the full circle mode. The part-circle sprinkler shall have adjustable arc coverage of 50 to 330 degrees. Arc adjustment can be performed with or without the rotor in operation and shall require only a flat blade screwdriver. The arc adjustment can be performed on both the right and left trip of the sprinkler. The sprinkler shall have a rotating nozzle turret independent of the riser stem. The portion of the riser stem that is in contact with the wiper seal shall be non-rotating.

The sprinkler shall have a non-strippable drive mechanism and permit manual rotation of the pop-up stem in any direction. This shall have no effect on either the drive or the set arc. Once the manual rotation is terminated, the sprinkler shall automatically return the water stream to its preset arc.

The sprinkler shall have a pressure activated, multi-function, soft elastomeric wiper seal. This wiper seal shall prevent the sprinkler from sticking in the up position, and be capable of sealing the sprinkler riser stem to the sprinkler cap under normal operating pressures.

The sprinkler shall have a screen attached to the drive housing to filter inlet water, protect the drive from clogging and simplify its removal for cleaning and flushing of the system. The sprinkler body shall have a 1" (26/34) female (NPT or BSP) bottom inlet. The sprinkler shall have a standard rubber cover which designates each adjustment opening from the top. The sprinkler shall have a two piece, front-load nozzle assembly which will allow the nozzle to be installed without a stator bushing change. The primary and secondary nozzle ports shall be contained in one of the parts and shall be unique to each nozzle size. The tertiary nozzle port shall be common to all of the other primary/secondary nozzle assemblies. The sprinkler shall have a selection of eight color-coded nozzles. All nozzles shall have three ports for optimal close-in, mid-range and long-range water distribution. The sprinkler shall have a stainless steel nozzle retention screw. The angle of trajectory shall be 25 degrees from horizontal.

The sprinkler shall have a strong stainless steel retract spring for positive pop-down. The sprinkler shall have a standard Seal-A-Matic™ (SAM) device capable of holding up to 10 feet (3,1 m) of head. Pop-up height as measured from the top of the cover to the centerline of the nozzle orifice shall be at least 5 inches (12,7 cm). The sprinkler's overall height shall be 10 1/8 inches (25,7 cm) and the exposed diameter shall be 1 7/8 inches (4,8 cm).



8005-SS

When so indicated on the design, the rotor shall have a stainless steel covered nozzle turret and riser stem. The riser stem shall be tapered and conform to the standard plastic riser in all other ways.

The sprinkler shall be as manufactured by Rain Bird Corporation, Glendora, California.

Rain Bird Corporation
6991 E. Southpoint Road
Tucson, AZ 85756
Phone: (520) 741-6100
Fax: (520) 741-6522

Rain Bird Technical Services
(800) RAINBIRD (1-800-724-6247)
(U.S. and Canada)

Rain Bird Corporation
970 West Sierra Madre Avenue
Azusa, CA 91702
Phone: (626) 812-3400
Fax: (626) 812-3411

Specification Hotline
800-458-3005 (U.S. and Canada)

Rain Bird International, Inc.
1000 West Sierra Madre Ave.
Azusa, CA 91702
Phone: (626) 963-9311
Fax: (626) 852-7343

The Intelligent Use of Water™
www.rainbird.com

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JAN 25 2023

ATTACHMENT D – WELL DRILLERS REPORT

SCANNED
JAN 2 5 2023

Form 238-7
6/07

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IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

1. WELL TAG NO. D 0074590
Drilling Permit No. 975406-881463
Water right or injection well # 63-34298

2. OWNER:
Name Independent School District of Boise City
Address 8169 W. Victory Road
City Boise State Id Zip 83709-4164

3.WELL LOCATION:
Twp. 3 North ☒ or South ☐ Rge. 2 East ☒ or West ☐
Sec. 11 ____ 10 acres 1/4 N.W. 40 acres 1/4 N.W. 160 acres 1/4
Gov't Lot ____ County Ada
Lat. 43 ° 37.045 (Deg. and Decimal minutes)
Long. 116 °11.384 (Deg. and Decimal minutes)
Address of Well Site 400 W. Fort
(Give at least name of road + Distance to Road or Landmark) City Boise
Lot ____ Blk. ____ Sub. Name ____

4. USE:
☐ Domestic ☐ Municipal ☐ Monitor ☒ Irrigation ☐ Thermal ☐ Injection
☐ Other ____

5. TYPE OF WORK:
☒ New well ☐ Replacement well ☐ Modify existing well
☐ Abandonment ☐ Other ____

6. DRILL METHOD:
☐ Air Rotary ☒ Mud Rotary ☐ Cable ☐ Other ____

7. SEALING PROCEDURES:

Seal material	From (ft)	To (ft)	Quantity (lbs or ft³)	Placement method/procedure
Bentonite chip	0'	10'	450 lbs	Poured
Cement	10'	245'	3.5 yards	Pumped

8. CASING/LINER:

Diameter (nominal)	From (ft)	To (ft)	Gauge/ Schedule	Material	Casing	Liner	Threaded	Welded
8"	+2'	275'	.322	Steel	☒	☐	☐	☒
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Was drive shoe used? ☐ Y ☒ N Shoe Depth(s) ____

9. PERFORATIONS/SCREENS:
Perforations ☐ Y ☒ N Method ____
Manufactured screen ☒ Y ☐ N Type Johnson Vee wire
Method of installation lowered

From (ft)	To (ft)	Slot size	Number/ft	Diameter (nominal)	Material	Gauge or Schedule
275'	335'	.040	60'	8"	Stainless	

Length of Headpipe ____ Length of Tailpipe ____
Packer ☐ Y ☐ N Type ____

10.FILTER PACK:

Filter Material	From (ft)	To (ft)	Quantity (lbs or ft³)	Placement method
6-9 sand	340'	245'	3,400 lbs	Poured

11. FLOWING ARTESIAN:
Flowing Artesian? ☐ Y ☒ N Artesian Pressure (PSIG) ____
Describe control device ____

12. STATIC WATER LEVEL and WELL TESTS:
Depth first water encountered (ft) 37'7" Static water level (ft) 37'7"
Water temp. (°F) 65 Bottom hole temp. (°F) 65
Describe access port ____

Well test:

Drawdown (feet)	Discharge or yield (gpm)	Test duration (minutes)
19'	300	450

Test method:

Pump	Bailer	Air	Flowing artesian
☒	☐	☐	☐
☐	☐	☐	☐

Water quality test or comments: ____

13. LITHOLOGIC LOG and/or repairs or abandonment:

Bore Dia. (in)	From (ft)	To (ft)	Remarks, lithology or description of repairs or abandonment, water temp.	Water Y	Water N
12"	0'	9'	Sticky sandy topsoil		X
	9'	30'	Course sand & small gravel		X
	30'	40'	Gravel & course sand	X	
	40'	68'	Course sand,gravel, boulders	X	
	68'	82'	Course sand gravel	X	
	82'	84'	Redish sand	X	
	84'	115'	Blue clay		X
	115'	168'	Blue sand	X	
	168'	254'	Blue clay		X
	254'	337'	Blue sand	X	
	337'	346'	Blue clay		X
8"	346'	400'	Blue sand	X	

RECEIVED
APR 03 2017
WATER
WEST

Completed Depth (Measurable): 335'
Date Started: Feb 21, 2017 Date Completed: Mar 24, 2017

14. DRILLER'S CERTIFICATION:
I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Company Name Stevens & Sons Co. No. 153
*Principal Driller ____ Date Mar 30, 2017
*Driller ____ Date Mar 30, 2017
*Operator II ____ Date ____
Operator I ____ Date ____

* Signature of Principal Driller and rig operator are required.

RECEIVED
JAN 25 2023

ATTACHMENT E – FIELD EXAM PHOTOGRAPHS

SCANNED
JAN 2 5 2023

Field Exam Photographs



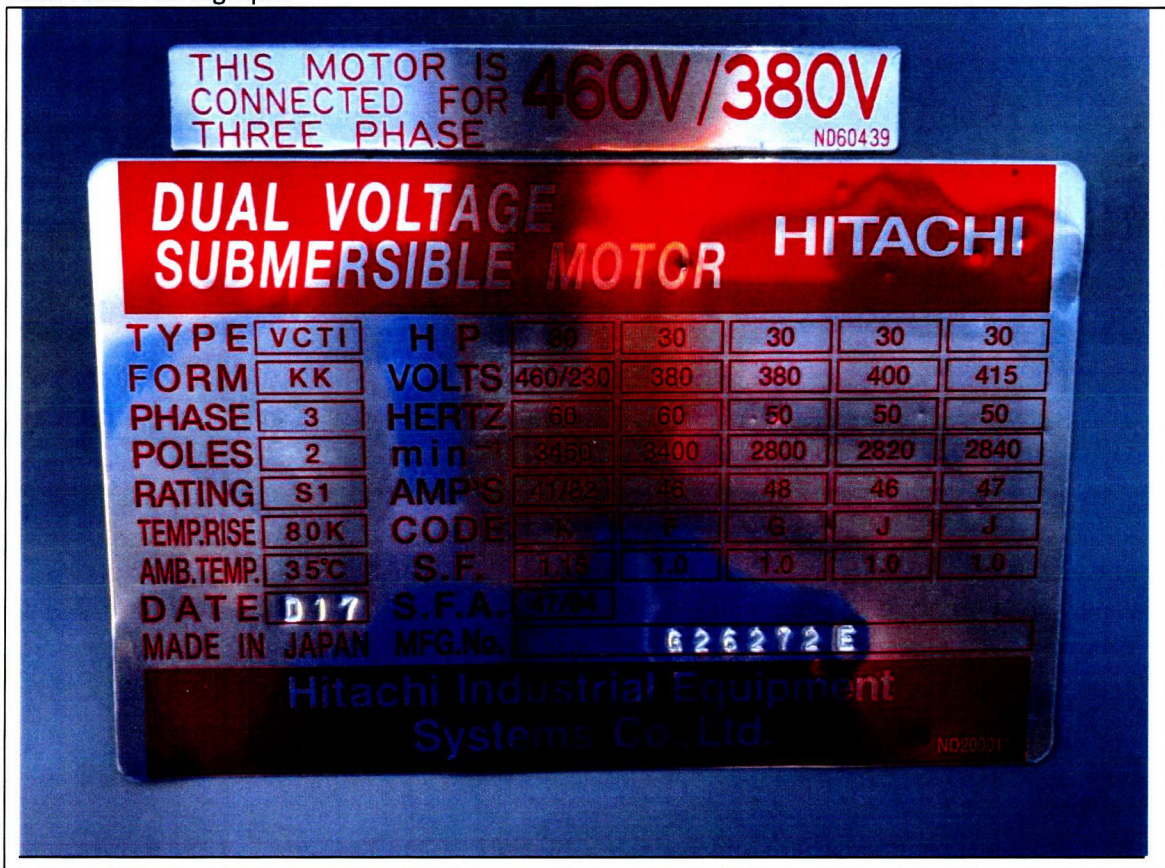
Point of Diversion

Metal Plate:
D0074590

43 37.045
-116 11.384



Well and Control Box located at east corner of property (NW corner of N Collins and N Robbins Rd).



Motor plate.



Turf and curb irrigation around Fort Boise Learning Center.



Turf irrigation on sports fields.



Turf irrigation around Fort Boise Learning Center.