

ADDENDUM NO. 2

TO: ALL PLAN HOLDERS

RE: Lift Station Improvements (AEDC): City of McGehee, Arkansas

ADDENDUM DATE: February 23, 2026

The Plans, Specifications and Contract Documents for the above-referenced project are hereby modified as follows:

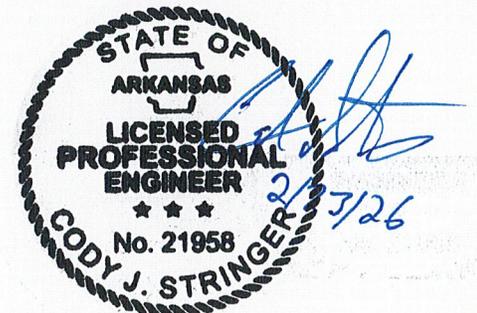
- 1. Updated Plan Sheets:**
Please see attached documents.
- 2. Updated Technical Specifications:**
Remove Appendix A and replace with attached documents.

ADDENDUM NO. 2 ISSUED BY:

A.L. FRANKS ENGINEERING


Cody Stringer, P.E.

Project Engineer/Vice President-El Dorado Operations



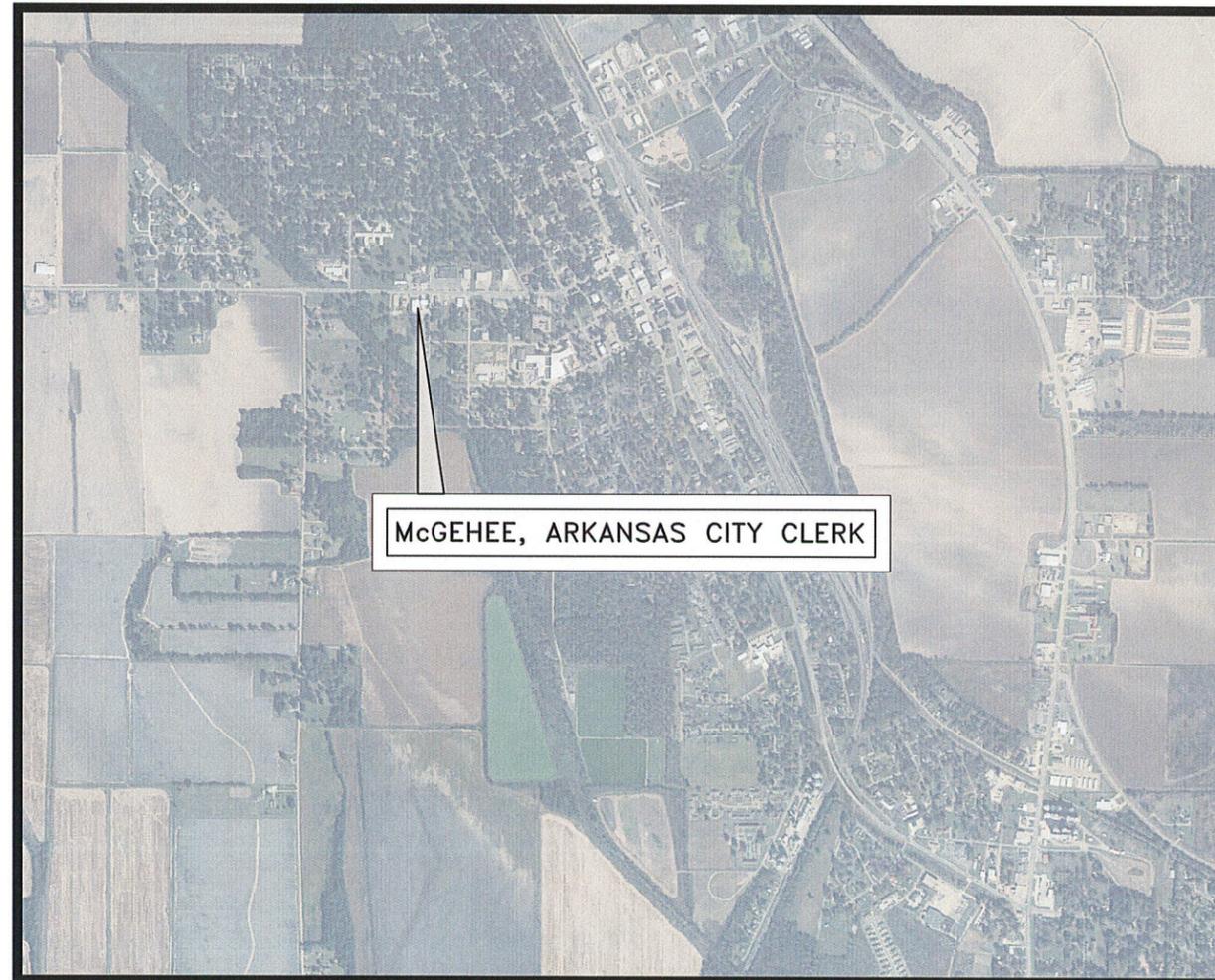
CITY OF McGEHEE, ARKANSAS LIFTSTATION IMPROVEMENTS PROJECT # MCG-03-25 AEDC PROJECT # 790-09343



BEFORE CONSTRUCTION BEGINS
GIVE 48 HOURS NOTICE
FOR UNDERGROUND UTILITY LOCATIONS
CALL: THE ARKANSAS ONE-CALL SYSTEM 1-800-482-8998

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CITY OF McGEHEE, ARKANSAS
901 HOLLY STREET, 71654
PH: 870-222-3160

CITY OF McGEHEE, ARKANAS
JEFF OWYOUNG, MAYOR

SUBMITTED BY:



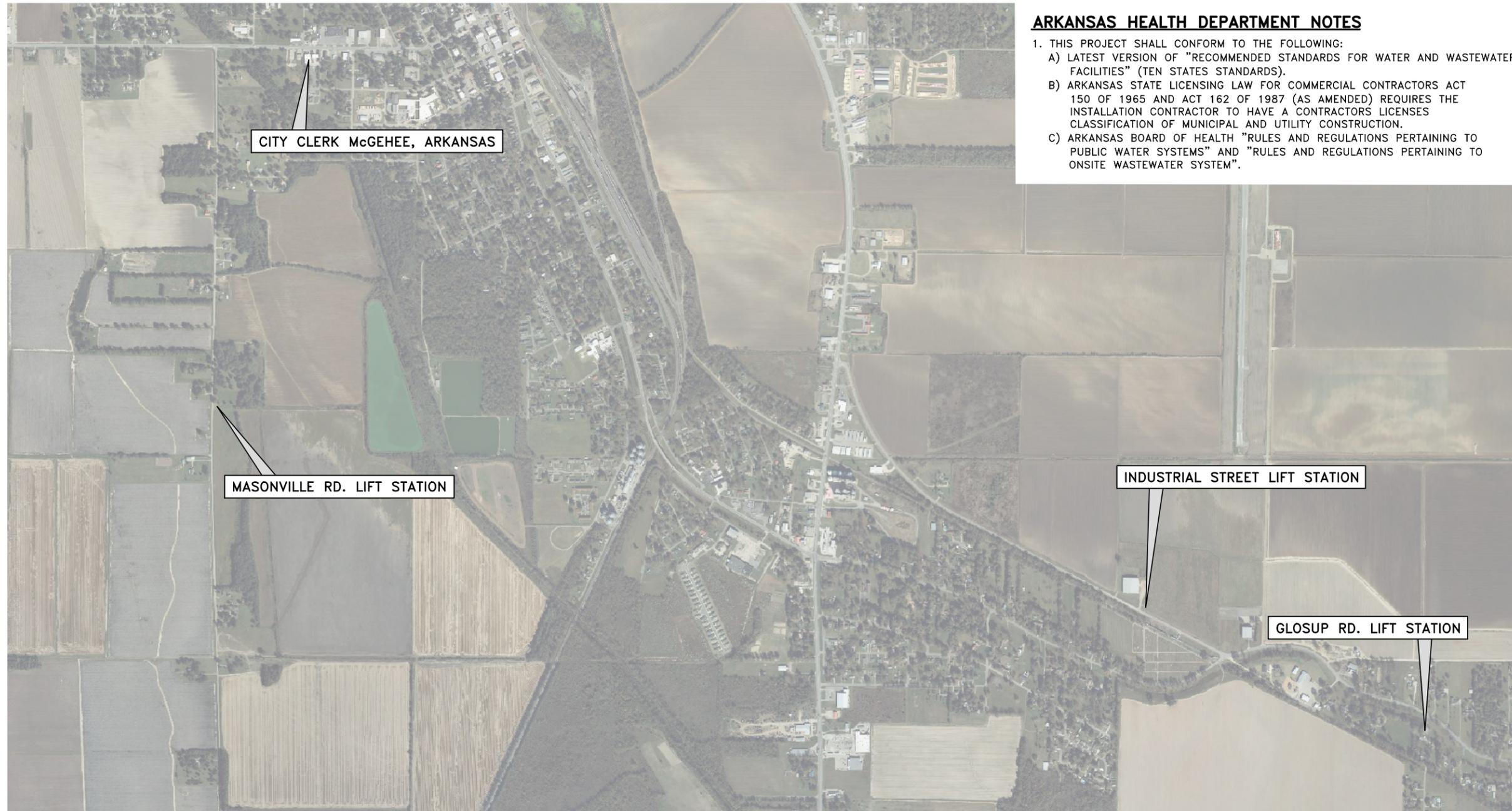
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Phone (870) 216-1906
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319 W. OAK STREET
El Dorado, Arkansas 71730
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Fax (870) 216-1907



Cody J. Stringer
CODY J. STRINGER, P.E. PROJECT ENGINEER DATE 02/23/2026

Kiron S. Browning
KIRON S. BROWNING, P.E. PROJECT MANAGER DATE 2-23-26



ARKANSAS HEALTH DEPARTMENT NOTES

1. THIS PROJECT SHALL CONFORM TO THE FOLLOWING:
 - A) LATEST VERSION OF "RECOMMENDED STANDARDS FOR WATER AND WASTEWATER FACILITIES" (TEN STATES STANDARDS).
 - B) ARKANSAS STATE LICENSING LAW FOR COMMERCIAL CONTRACTORS ACT 150 OF 1965 AND ACT 162 OF 1987 (AS AMENDED) REQUIRES THE INSTALLATION CONTRACTOR TO HAVE A CONTRACTORS LICENSES CLASSIFICATION OF MUNICIPAL AND UTILITY CONSTRUCTION.
 - C) ARKANSAS BOARD OF HEALTH "RULES AND REGULATIONS PERTAINING TO PUBLIC WATER SYSTEMS" AND "RULES AND REGULATIONS PERTAINING TO ONSITE WASTEWATER SYSTEM".



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Date	Revision	By

Designed	CJM
Checked	KSB
Drawn	AHH
Approved	KSB



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EXISTING CONDITIONS

Job No.: MCG-03-25
 Scale: 1"=1500'
 Date: 01/2026
 Sheet 2





MASONVILLE LIFT STATION:

- 2- HYDROMATIC S4N/S4NX 4" SOLIDS HANDLING SUBMERSIBLE PUMP MODEL S4N500M3-4 200GPM @ 42' TDH / 7.5HP 230V 3PH 32' CABLES
- 2- 4" CAST IRON BASE ELBOW
- 4- SS INTERMEDIATE GUIDE BRACKETS (2)
- 2- CAST IRON TOP RAIL BRACKET
- 2- 4"x6" DUCTILE IRON ECCENTRIC REDUCER
- 2- 6" DUCTILE IRON RISER PIPING
- 4- 1.5" X 240" SCH40 316SS GUIDE RAILS
- 2- SS LIFTING CHAINS AND SHACKLES
- 1- NEMA 4XSS DUPLEX CONTROL PANEL
- 4- FLOAT SWITCHES WITH 50' CABLES AND SS BRACKET
- 1- LOT STARTUP BY ISI TECHNICIAN



MASONVILLE ROAD

REMOVE EXISTING PUMPS, DISCHARGE PIPING, ALL ELECTRICAL MATERIALS, FLOATS, GUIDES RAILS, ETC.



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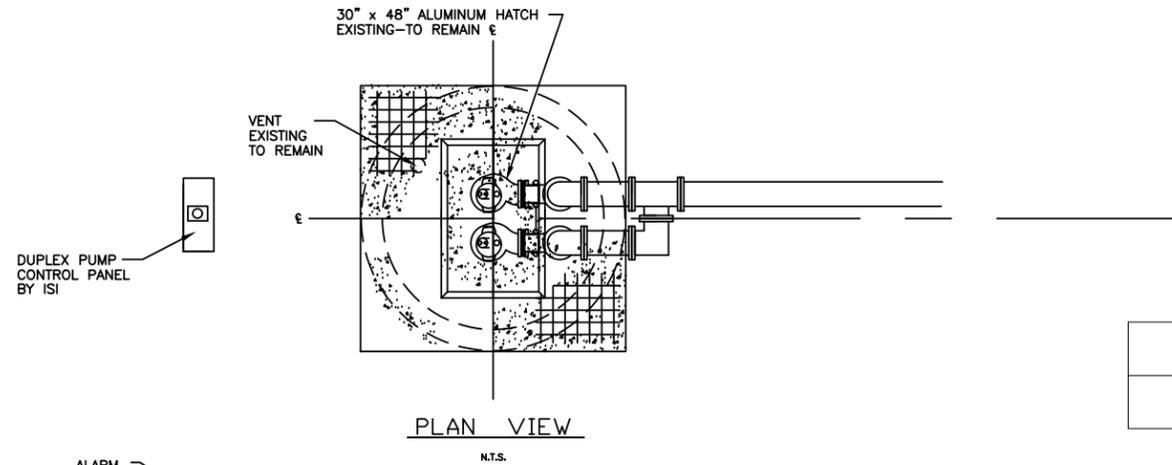
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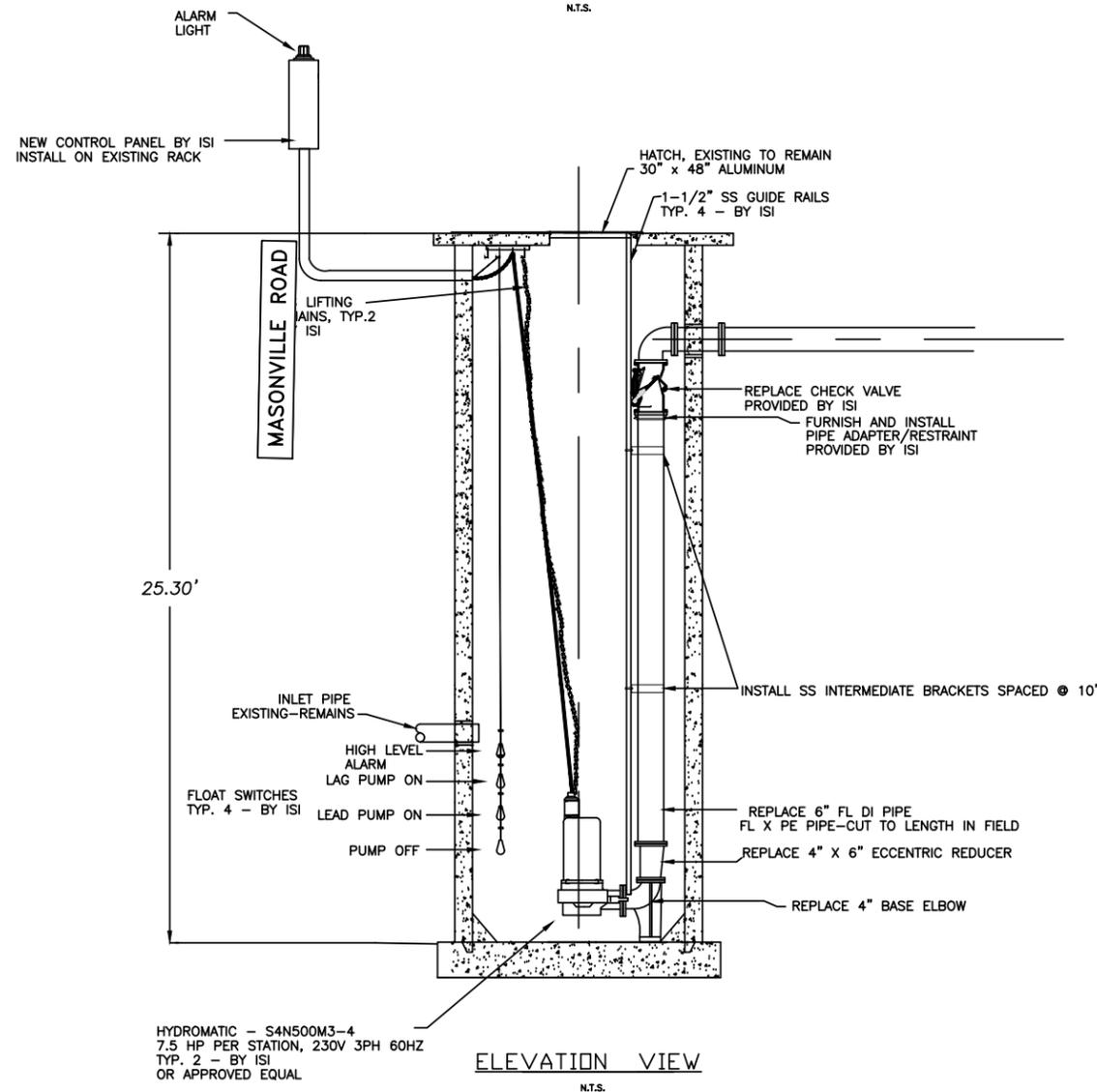
MASONVILLE LIFTSTATION
 SITE PLAN

Job No.: MCG-03-25
 Scale: 1"=20'
 Date: 01/2026
 Sheet 3





LIFT STATION CONDITION POINTS		
MASONVILLE	200 GPM	42' TDH



NOTE: REPLACE ALL INTERIOR PIPING, FITTINGS, PIPE SUPPORTS, EQUIPMENT

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MASONVILLE LIFTSTATION
 PROFILE PLAN

Job No.: MCG-03-25
Scale: N.T.S.
Date: 01/2026
Sheet 4





- INDUSTRIAL DRIVE LIFT STATION:**
- 2- HYDROMATIC - S4N/S4NX 4" SOLIDS HANDLING SUBMERSIBLE PUMP MODEL S4N750M3-4 400GPM @ 42' TDH / 7.5HP 230V 3PH 32' CABLES
 - 2- 4" CAST IRON BASE ELBOW
 - 4- SS INTERMEDIATE GUIDE BRACKETS (2)
 - 2- CAST IRON TOP RAIL BRACKET
 - 2- 4"X6" DUCTILE IRON ECCENTRIC REDUCER
 - 2- 6" DUCTILE IRON RISER PIPING
 - 4- 1.5" X 240" SCH40 316SS GUIDE RAILS
 - 2- SS LIFTING CHAINS AND SHACKLES
 - 1- NEMA 4XSS DUPLEX CONTROL PANEL
 - 4- FLOAT SWITCHES WITH 50' CABLES AND SS BRACKET
 - 1- LOT STARTUP BY ISI TECHNICIAN

REMOVE EXISTING PUMPS, DISCHARGE PIPING, ALL ELECTRICAL MATERIALS, FLOATS, GUIDES RAILS, ETC.

INDUSTRIAL DRIVE



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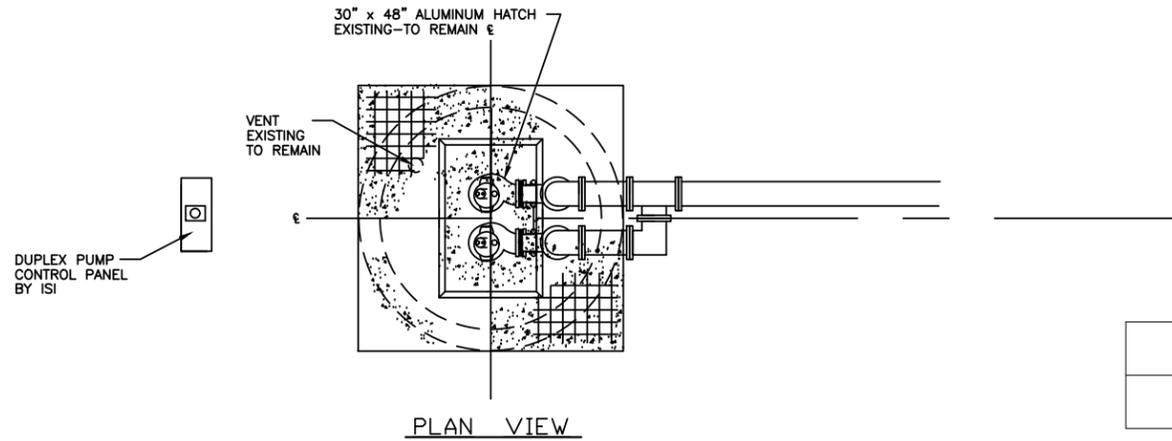
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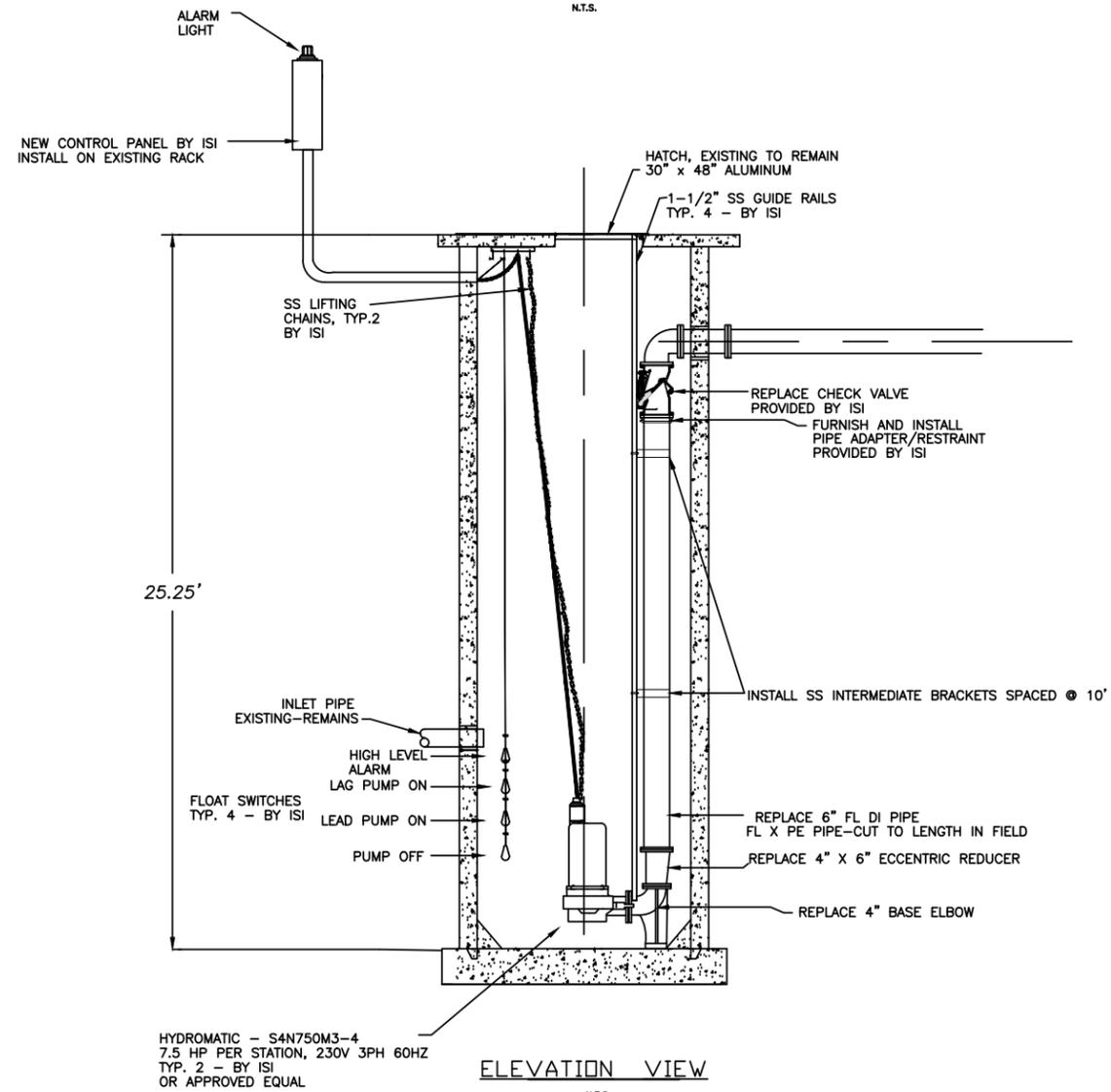
INDUSTRIAL LIFTSTATION
 SITE PLAN

Job No.: MCG-03-25
 Scale: 1"=20'
 Date: 01/2026
 Sheet 5





LIFT STATION CONDITION POINTS		
INDUSTRIAL	400 GPM	42' TDH



NOTE: REPLACE ALL INTERIOR PIPING, FITTINGS, PIPE SUPPORTS, EQUIPMENT

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INDUSTRIAL LIFTSTATION
PROFILE PLAN

Job No.: MCG-03-25
Scale: N.T.S.
Date: 01/2026
Sheet 6





- GLOSUP ROAD LIFT STATION:**
- 2- HYDROMATIC - S4N/S4NX 4" SOLIDS HANDLING SUBMERSIBLE PUMP MODEL S4N500M3-4 200 GPM @ 32' TDH / 5HP 230V 3PH 32' CABLES
 - 2- 4" CAST IRON BASE ELBOW
 - 4- SS INTERMEDIATE GUIDE BRACKETS (2)
 - 2- CAST IRON TOP RAIL BRACKET
 - 2- 4"X6" DUCTILE IRON ECCENTRIC REDUCER
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 - 1- NEMA 4XSS DUPLEX CONTROL PANEL
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 - 1- LOT STARTUP BY ISI TECHNICIAN



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Designed CJM
 Checked KSB
 Drawn AHH
 Approved KSB



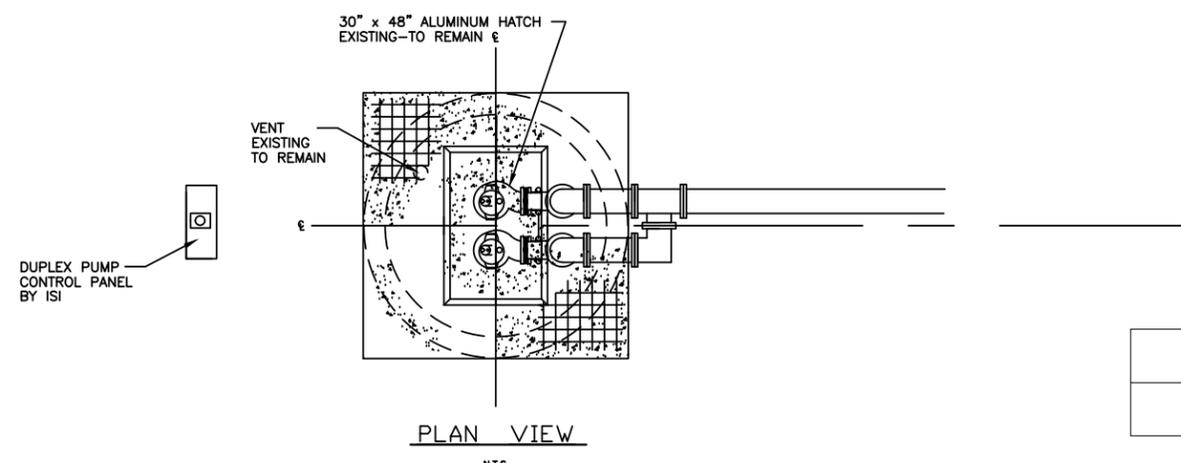
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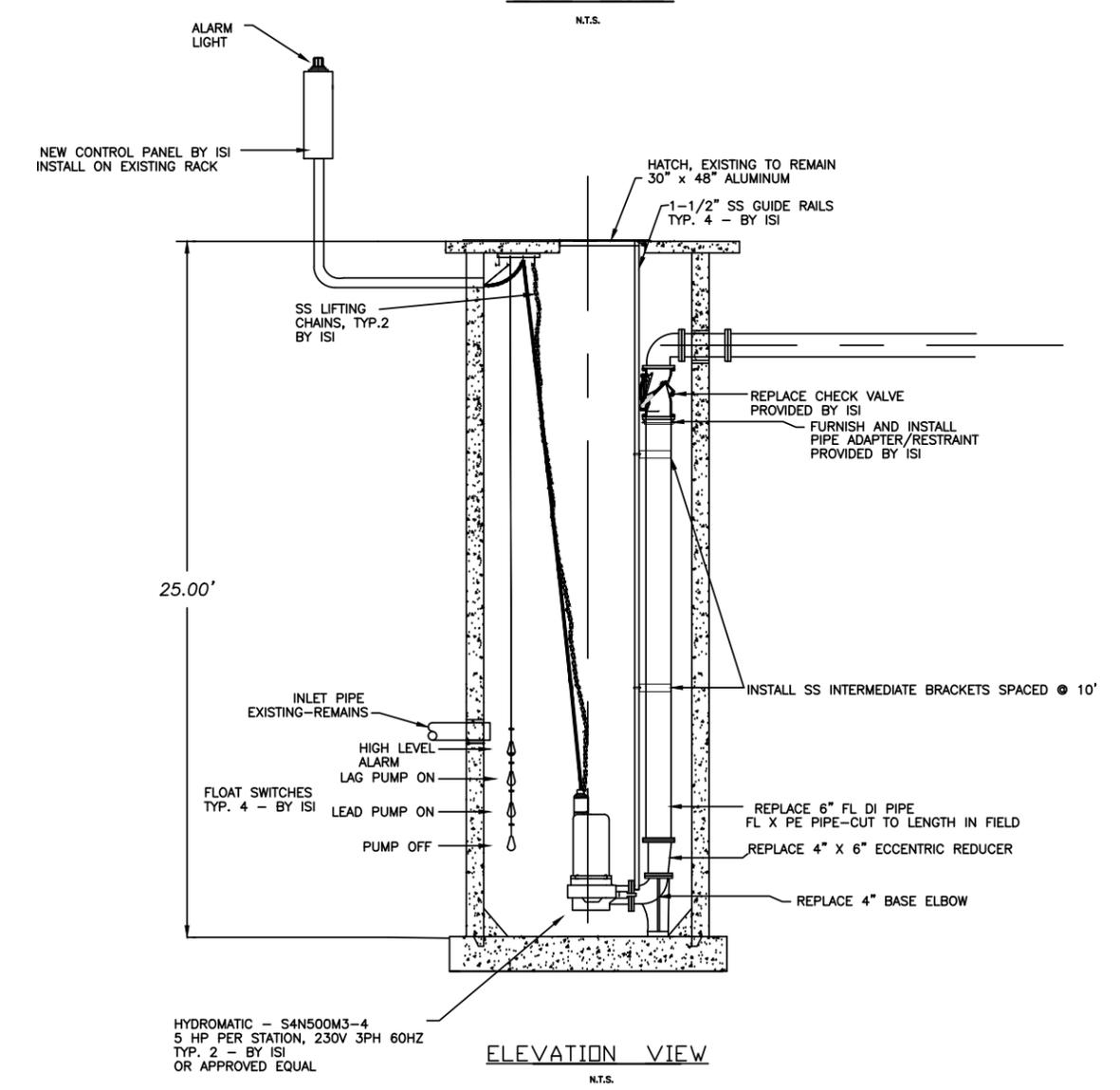
GLOSUP LIFTSTATION
 SITE PLAN

Job No.: MCG-03-25
 Scale: 1"=20'
 Date: 01/2026
 Sheet 7





LIFT STATION CONDITION POINTS		
GLOSUP	200 GPM	32' TDH



NOTE: REPLACE ALL INTERIOR PIPING, FITTINGS, PIPE SUPPORTS, EQUIPMENT

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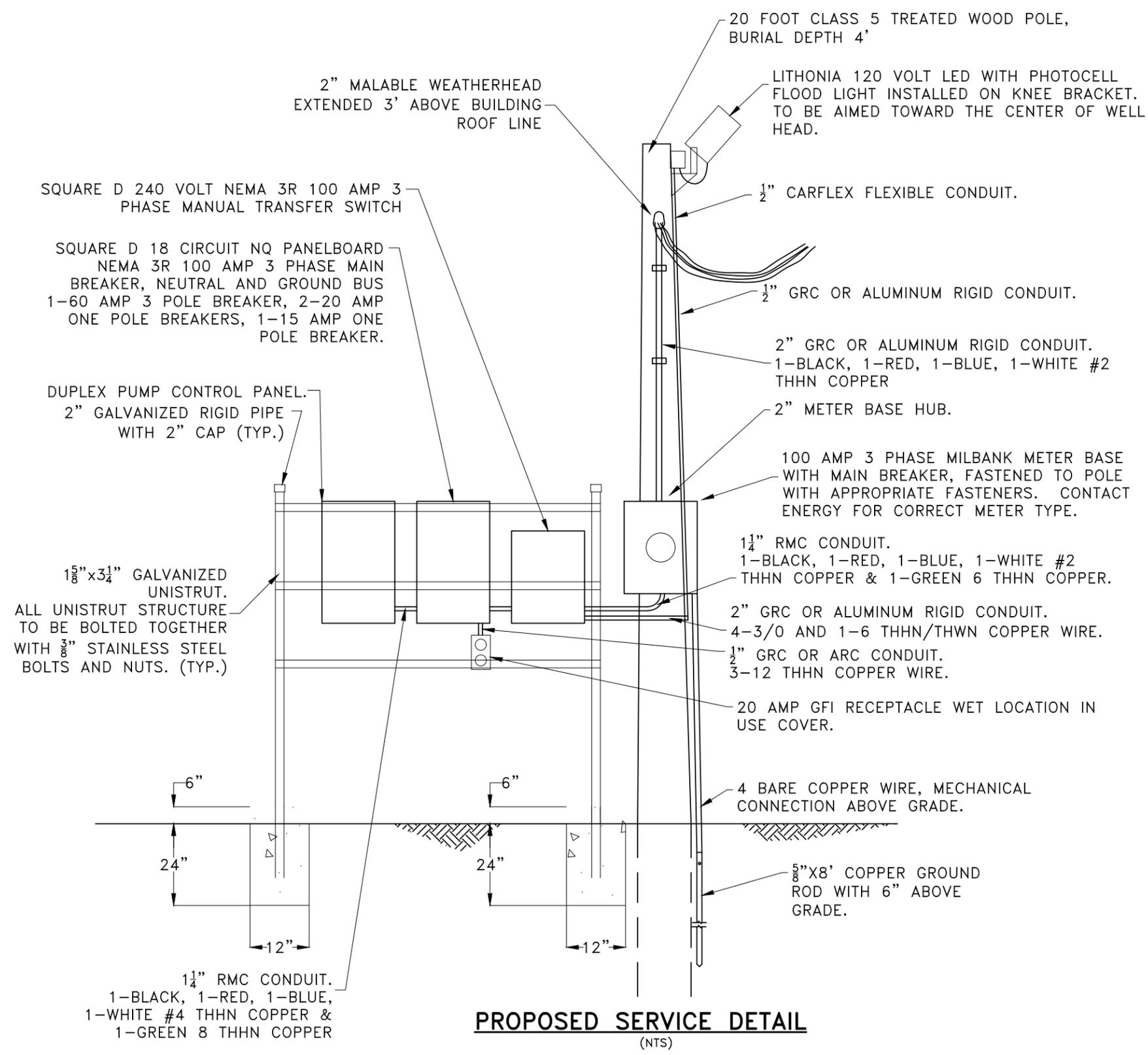
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GLOSUP LIFTSTATION
 PROFILE PLAN

Job No.: MCG-03-25
 Scale: N.T.S.
 Date: 01/2026
 Sheet 8

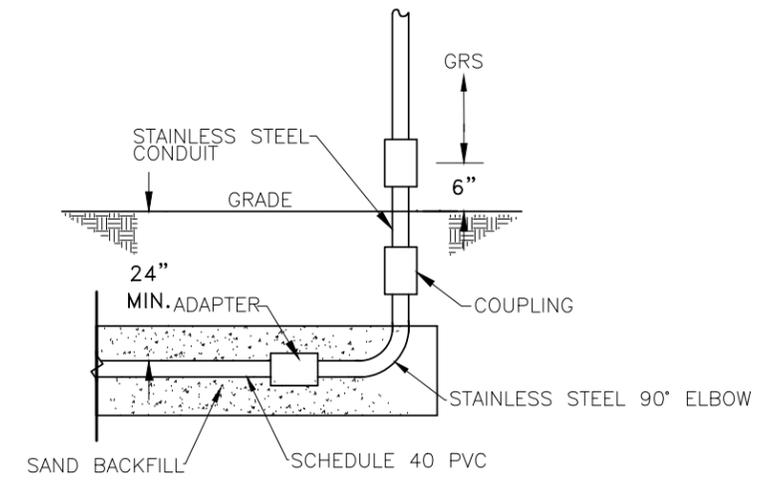


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PROPOSED SERVICE DETAIL
(NTS)

- NOTES:
1. ALL WIRES AND CONDUIT SHALL MEET THE LATEST NEC REQUIREMENTS.
 2. MINIMUM REQUIREMENTS ONLY ARE SHOWN ON THIS AND ARE NOT INTENDED AS A CONFLICT WITH ANY LOCAL/NEC CODES WHICH MAY REQUIRE MORE THAN THE MINIMUM INDICATED ON THIS DRAWING.
 3. FURNISH AND INSTALL ALL ELECTRICAL MATERIALS AND LIGHT FOR HIGH WATER ALARM LIGHT. 3/4" RMC CONDUIT WITH 1-BLACK, 1-WHITE, 1-GREEN 14 THHN COPPER.
 4. ALL CONDUIT AFTER METER BASE ABOVE GRADE TO BE RMC CONDUIT. ALL CONDUIT AFTER METER BASE BELOW GRADE TO BE SCHEDULE 40 PVC.
 5. FURNISH AND INSTALL NEW CONDUIT TO ACCOMMODATE CABLE FROM MOTOR TO MOTOR STARTER TERMINALS. (NO SPLICES)
 6. FURNISH AND INSTALL NEW CONDUIT TO ACCOMMODATE CABLE FROM FLOATS TO FLOAT CONTROL TERMINALS IN CONTROL PANEL. (NO SPLICES)
 7. LEAVE FLOATS EXCESS CABLE ROLLED UP AND SECURED IN WET WELL.
 8. TERMINAL BOXES SHALL BE USED FOR CABLE EXTENSIONS
 9. MINIMUM CLEARANCE OF 18' REQUIRED OVER COMMERCIAL DRIVEWAYS OR PARKING LOTS. MINIMUM OF 22' REQUIRED OVER PUBLIC STREETS.
 10. MINIMUM REQUIREMENTS ONLY ARE SHOWN ON THIS AND ARE NOT INTENDED AS A CONFLICT WITH ANY LOCAL CODES WHICH MAY REQUIRE MORE THAN THE MINIMUM INDICATED ON THIS DRAWING.
 11. ALL ELECTRICAL PANELS TO BE BOLTED TO UNISTRUT WITH 3/8" STAINLESS STEEL BOLTS AND NUTS. (TYP.)
 12. CONDUITS ENTERING PANELS AND ELECTRICAL BOXES TO HAVE CONDUIT HUBS. (TYP.)
 13. SCHEDULE 40 PVC CONDUIT BELOW GRADE, STAINLESS STEEL 90s, AND STAINLESS STEEL CONDUIT FROM BELOW GRADE TO 6" ABOVE GRADE.



TYPICAL CONDUIT DETAIL
NTS

Date	Revision	By

Designed	CJM
Checked	KSB
Drawn	AHH
Approved	KSB

A.L. FRANKS ENGINEERING

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ELECTRICAL DETAILS

Job No.: MCG-03-25
Scale: N.T.S.
Date: 01/2026
Sheet 9

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 21958
CODY J. STRINGER

Item Number / Tags	: McGehee	Size	: Hydromatic - S4N/S4NX
Service	: Masonville LS	Stages	: 1
Quantity	: 2	Based on curve number	: SUB_S_E_AH_00005_B_4 Rev 2016-01-14
Quote number	: 0226-06-1901	Date last saved	: 18 Feb 2026 11:03 AM

Operating Conditions

Flow, rated	: 200.0 USgpm
Differential head / pressure, rated (requested)	: 42.00 ft
Differential head / pressure, rated (actual)	: 43.51 ft
Suction pressure, rated / max	: 0.00 / 0.00 psi.g
NPSH available, rated	: Ample
Site Supply Frequency	: 60 Hz

Performance

Speed criteria	: Synchronous
Speed, rated	: 1750 rpm
Impeller diameter, rated	: 7.38 in
Impeller diameter, maximum	: 8.00 in
Impeller diameter, minimum	: 5.50 in
Efficiency	: 46.62 %
NPSH required / margin required	: - / 0.00 ft
nq (imp. eye flow) / S (imp. eye flow)	: 43 / - Metric units
Minimum Continuous Stable Flow	: 87.41 USgpm
Head, maximum, rated diameter	: 53.99 ft
Head rise to shutoff	: 28.11 %
Flow, best eff. point	: 410.3 USgpm
Flow ratio, rated / BEP	: 48.75 %
Diameter ratio (rated / max)	: 92.19 %
Head ratio (rated dia / max dia)	: 78.90 %
Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 1.00 / 1.00
Selection status	: Acceptable

Liquid

Liquid type	: Water
Additional liquid description	:
Solids diameter, max	: 0.00 in
Solids diameter limit	: 3.00 in
Solids concentration, by volume	: 0.00 %
Temperature, max	: 68.00 deg F
Fluid density, rated / max	: 1.000 / 1.000 SG
Viscosity, rated	: 1.00 cP
Vapor pressure, rated	: 0.34 psi.a

Material

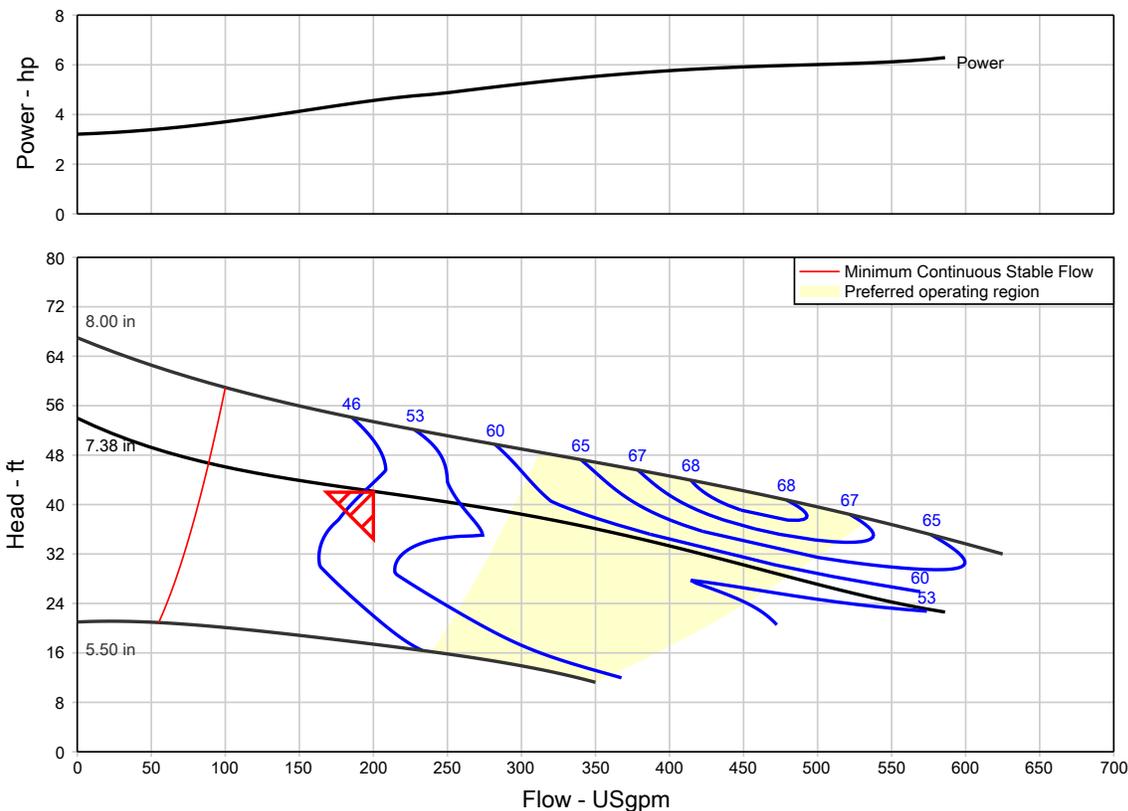
Material selected	: Standard
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Pressure Data

Maximum working pressure	: 23.37 psi.g
Maximum allowable working pressure	: N/A
Maximum allowable suction pressure	: N/A
Hydrostatic test pressure	: N/A

Driver & Power Data (@Max density)

Driver sizing specification	: Max Power
Margin over specification	: 0.00 %
Service factor	: 1.00
Power, hydraulic	: 2.13 hp
Power, rated	: 4.56 hp
Power, maximum, rated diameter	: 6.29 hp
Minimum recommended motor rating	: 7.50 hp / 5.59 kW



Item Number / Tags	: McGehee	Size	: Hydromatic - S4N/S4NX
Service	: Masonville LS	Stages	: 1
Quantity	: 2	Speed, rated	: 1750 rpm
Quote number	: 0226-06-1901	Frame size	:
		Date last saved	: 18 Feb 2026 11:03 AM

Performance Data

Head, maximum diameter, rated flow	: 53.41 ft
Head, minimum diameter, rated flow	: 17.41 ft
Head, maximum, rated diameter	: 53.99 ft
Efficiency adjustment factor, total	: 1.00
Power adjustment, total	: 0.00 hp
Head adjustment factor, total	: 1.00
Flow adjustment factor, total	: 1.00
NPSH3 adjustment factor, total	: 1.00
NPSH margin dictated by pump supplier	: 0.00 ft
NPSH margin dictated by user	: 0.00 ft
NPSH margin used (added to 'required' values)	: 0.00 ft

Mechanical Limits

Torque, rated power, rated speed	: 0.26 hp/100 rpm
Torque, maximum power, rated speed	: 0.36 hp/100 rpm
Torque, driver power, full load speed	: 0.43 hp/100 rpm
Torque, driver power, rated speed	: 0.43 hp/100 rpm
Torque, pump shaft limit	: 1,000 hp/100 rpm
Radial load, worst case	: -
Radial load limit	: -
Impeller peripheral speed, rated	: -
Impeller peripheral speed limit	: -

Various Performance Data

	Flow (USgpm)	Head (ft)	Efficiency (%)	NPSH3 (ft)	Power (hp)
Shutoff, rated	0.00	53.99	-	-	3.21
Shutoff, maximum	0.00	67.00	-	-	5.54
Minimum Continuous Stable Flow	87.41	46.77	28.56	-	3.61
Rated flow, minimum	200.0	17.41	43.23	-	2.03
Rated flow, maximum	200.0	53.41	48.56	-	5.55
BEP flow, rated	410.3	32.70	58.38	-	5.80
120% rated flow, rated	240.0	40.77	51.33	-	4.81
End of curve, rated	586.1	22.61	53.19	-	6.29
End of curve, minimum	350.0	11.24	49.79	-	1.99
End of curve, maximum	625.0	32.00	62.98	-	8.02
Maximum value, rated	-	53.99	58.38	-	6.29
Maximum value, maximum	-	-	68.26	-	8.02

System differential pressure

Differential pressure, rated flow, rated (psi)	
Differential pressure, shutoff, rated (psi)	
Differential pressure, shutoff, maximum (psi)	

	@ Density, rated	@ Density, max
	18.24	18.24
	23.37	23.37
	29.00	29.00

Discharge pressure

Discharge pressure, rated flow, rated (psi.g)	
Discharge pressure, shutoff, rated (psi.g)	
Discharge pressure, shutoff, maximum (psi.g)	

	@ Suction pressure, rated	@ Suction pressure, max	@ Suction pressure, rated	@ Suction pressure, max
	18.24	18.24	18.24	18.24
	23.37	23.37	23.37	23.37
	29.00	29.00	29.00	29.00

Ratios

Maximum flow / rated flow, rated	: 293.04 %	Head rated diameter / head minimum diameter, rated flow	: 242.06 %
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Customer Technical Offer

Customer	Instrument and Supply	Size / Stages	Hydromatic - S4N/S4NX / 1
Item Number / Tags	McGehee	Pump speed	1750 rpm
Customer reference		Quote number	0226-06-1901

Pump

Qty	Description
2	<p><i>Hydromatic - S4N/S4NX</i></p> <p>Pump Information</p> <p>Parameters</p> <p>Replacement Pump: No Environment: Ordinary Impeller Diameter Selection Criteria: Impeller diameter calculated from 200 USgpm and 42 Ft Rated Flow: 200 USgpm Rated Head: 42 Ft Impeller Trim: 7.3750 inches - based on curve data Selected Hertz: 60 Speed Rated: 1750 RPM Motor size: 7.50 hp / 5.59 kW Seal Type: Dual Motor voltage / phase: 230/3 Oil type: Dielectric transformer</p> <p>Wet end and seal options</p> <p>Pump: S4N750M3-4, Solids handling pumps 7.5 HP 230 volt 3 phase Horizontal orientation with Flanged discharge connection Horizontal or vertical discharge: Horizontal discharge Flanged or threaded connection: Flanged discharge Single / Dual seal options: Dual Mechanical seal Impeller Material: Ductile Iron Impeller Impeller Wear Ring: None Upper seal material - elastomer: Carbon ceramic - Nitrile Lower seal material - elastomer: Tungsten carbide - Nitrile Volute material: Cast iron Volute Wear Ring: Bronze volute wear ring</p> <p>Other available pump options</p> <p>O-Ring and gasket material: Nitrile Pump coatings: Green air dry enamel Cord length and gauge: 8-4 SOOW cord, 50 ft</p>

System

Qty	Description
2	<p>Pump Information</p> <p>Wet well configuration</p> <p>Rail system: Metal-To-Metal Installation type: Simplex Wet well depth: Enter wet well depth: 30.00 ft Resultant wet well depth: 30 Float Switch: Not Required Complete Rail Systems: 4" X 6" MTM ;Pump Rail System Intermediate guide rail bracket (requirement based on depth and rail diameter): IGB 4" elbow, 6" piping, 2" eccentric rails Other Accessories: None Door and frame assembly: None Lifting chain and cable assembly: None Leg Kit and Lifting Bails: Pump Lifting Bracket Junction Boxes: None</p>

System

Qty	Description
	Float Brackets: Door and Frame Mounted, Up to 5 Floats SST

Weight

Qty	Description
2	<p>Pump Information</p> <p>Weight</p> <p>Approximate weight for quantity shown</p> <ul style="list-style-type: none"> Pump Weight: 390 lb (176.9 kg) Complete Rail Systems: 300 lb (136.08 kg) Float Brackets: 30 lb (13.61 kg) Total Weight: 720 lb (326.59 kg)

No Group

Qty	Description
2	<p>Mechanical Seal Kit: None</p> <p>Overhaul Kit: None</p>

Item Number / Tags	: McGehee	Size	: Hydromatic - S4N/S4NX
Service	: Industrial LS	Stages	: 1
Quantity	: 2	Based on curve number	: SUB_S_E_AH_00005_B_4 Rev 2016-01-14
Quote number	: 0226-06-1901	Date last saved	: 18 Feb 2026 11:15 AM

Operating Conditions

Flow, rated	: 400.0 USgpm
Differential head / pressure, rated (requested)	: 42.00 ft
Differential head / pressure, rated (actual)	: 42.64 ft
Suction pressure, rated / max	: 0.00 / 0.00 psi.g
NPSH available, rated	: Ample
Site Supply Frequency	: 60 Hz

Performance

Speed criteria	: Synchronous
Speed, rated	: 1750 rpm
Impeller diameter, rated	: 7.88 in
Impeller diameter, maximum	: 8.00 in
Impeller diameter, minimum	: 5.50 in
Efficiency	: 67.15 %
NPSH required / margin required	: - / 0.00 ft
nq (imp. eye flow) / S (imp. eye flow)	: 43 / - Metric units
Minimum Continuous Stable Flow	: 97.02 USgpm
Head, maximum, rated diameter	: 65.71 ft
Head rise to shutoff	: 56.46 %
Flow, best eff. point	: 462.0 USgpm
Flow ratio, rated / BEP	: 86.59 %
Diameter ratio (rated / max)	: 98.44 %
Head ratio (rated dia / max dia)	: 94.13 %
Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 1.00 / 1.00
Selection status	: Acceptable

Liquid

Liquid type	: Water
Additional liquid description	:
Solids diameter, max	: 0.00 in
Solids diameter limit	: 3.00 in
Solids concentration, by volume	: 0.00 %
Temperature, max	: 68.00 deg F
Fluid density, rated / max	: 1.000 / 1.000 SG
Viscosity, rated	: 1.00 cP
Vapor pressure, rated	: 0.34 psi.a

Material

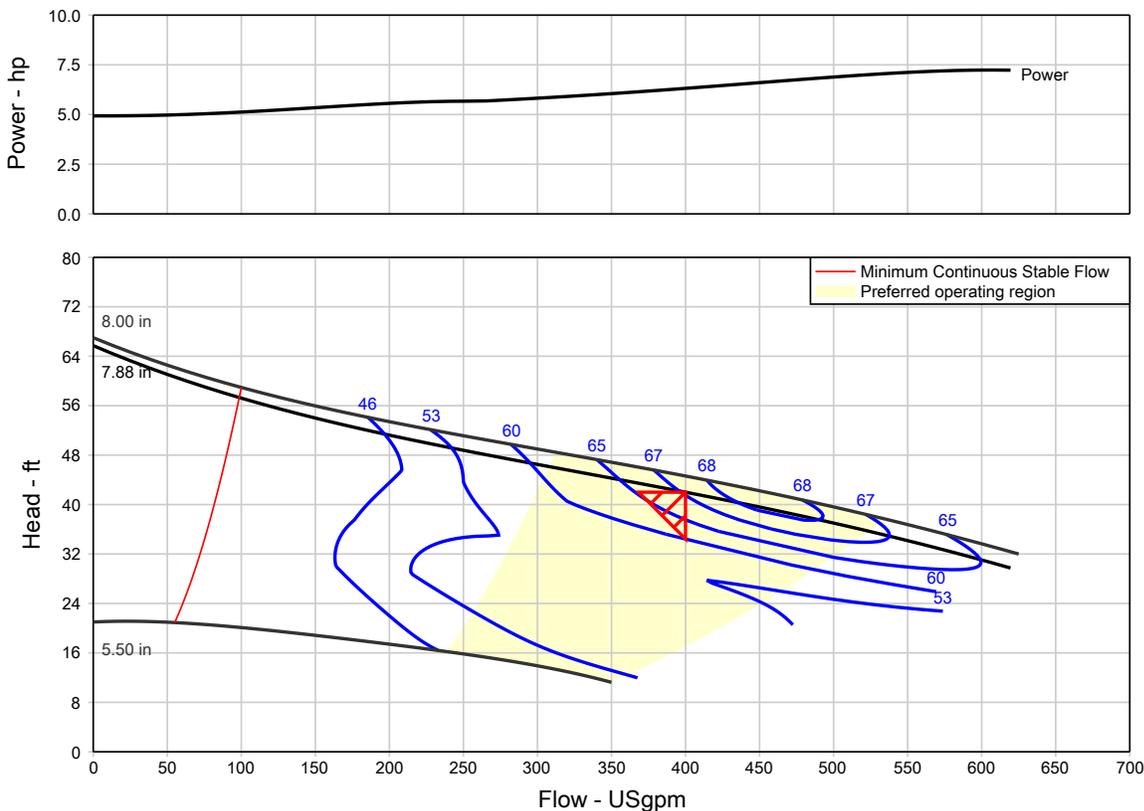
Material selected	: Standard
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Pressure Data

Maximum working pressure	: 28.44 psi.g
Maximum allowable working pressure	: N/A
Maximum allowable suction pressure	: N/A
Hydrostatic test pressure	: N/A

Driver & Power Data (@Max density)

Driver sizing specification	: Max Power
Margin over specification	: 0.00 %
Service factor	: 1.00
Power, hydraulic	: 4.24 hp
Power, rated	: 6.32 hp
Power, maximum, rated diameter	: 7.24 hp
Minimum recommended motor rating	: 7.50 hp / 5.59 kW



Item Number / Tags	: McGehee	Size	: Hydromatic - S4N/S4NX
Service	: Industrial LS	Stages	: 1
Quantity	: 2	Speed, rated	: 1750 rpm
Quote number	: 0226-06-1901	Frame size	:
		Date last saved	: 18 Feb 2026 11:15 AM

Performance Data

Head, maximum diameter, rated flow	: 44.62 ft
Head, minimum diameter, rated flow	: 7.21 ft
Head, maximum, rated diameter	: 65.71 ft
Efficiency adjustment factor, total	: 1.00
Power adjustment, total	: 0.00 hp
Head adjustment factor, total	: 1.00
Flow adjustment factor, total	: 1.00
NPSH3 adjustment factor, total	: 1.00
NPSH margin dictated by pump supplier	: 0.00 ft
NPSH margin dictated by user	: 0.00 ft
NPSH margin used (added to 'required' values)	: 0.00 ft

Mechanical Limits

Torque, rated power, rated speed	: 0.36 hp/100 rpm
Torque, maximum power, rated speed	: 0.41 hp/100 rpm
Torque, driver power, full load speed	: 0.43 hp/100 rpm
Torque, driver power, rated speed	: 0.43 hp/100 rpm
Torque, pump shaft limit	: 1,000 hp/100 rpm
Radial load, worst case	: -
Radial load limit	: -
Impeller peripheral speed, rated	: -
Impeller peripheral speed limit	: -

Various Performance Data

	Flow (USgpm)	Head (ft)	Efficiency (%)	NPSH3 (ft)	Power (hp)
Shutoff, rated	0.00	65.71	-	-	4.93
Shutoff, maximum	0.00	67.00	-	-	5.54
Minimum Continuous Stable Flow	97.02	57.43	27.52	-	5.11
Rated flow, minimum	400.0	7.21	48.65	-	1.50
Rated flow, maximum	400.0	44.62	67.69	-	6.66
BEP flow, rated	462.0	39.00	68.18	-	6.67
120% rated flow, rated	480.0	38.07	68.10	-	6.77
End of curve, rated	619.5	29.74	64.31	-	7.23
End of curve, minimum	350.0	11.24	49.79	-	1.99
End of curve, maximum	625.0	32.00	62.98	-	8.02
Maximum value, rated	-	65.71	68.18	-	7.24
Maximum value, maximum	-	-	68.26	-	8.02

System differential pressure

Differential pressure, rated flow, rated (psi)	
Differential pressure, shutoff, rated (psi)	
Differential pressure, shutoff, maximum (psi)	

	@ Density, rated	@ Density, max
	18.18	18.18
	28.44	28.44
	29.00	29.00

Discharge pressure

Discharge pressure, rated flow, rated (psi.g)	
Discharge pressure, shutoff, rated (psi.g)	
Discharge pressure, shutoff, maximum (psi.g)	

	@ Suction pressure, rated	@ Suction pressure, max	@ Suction pressure, rated	@ Suction pressure, max
	18.18	18.18	18.18	18.18
	28.44	28.44	28.44	28.44
	29.00	29.00	29.00	29.00

Ratios

Maximum flow / rated flow, rated	: 154.87 %	Head rated diameter / head minimum diameter, rated flow	: 582.82 %
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Customer Technical Offer

Customer	Instrument and Supply	Size / Stages	Hydromatic - S4N/S4NX / 1
Item Number / Tags	McGehee	Pump speed	1750 rpm
Customer reference		Quote number	0226-06-1901

Pump

Qty	Description
2	<p><i>Hydromatic - S4N/S4NX</i></p> <p>Pump Information</p> <p>Parameters</p> <p>Replacement Pump: No Environment: Ordinary Impeller Diameter Selection Criteria: Impeller diameter calculated from 400 USgpm and 42 Ft Rated Flow: 400 USgpm Rated Head: 42 Ft Impeller Trim: 7.8750 inches - based on curve data Selected Hertz: 60 Speed Rated: 1750 RPM Motor size: 7.50 hp / 5.59 kW Seal Type: Dual Motor voltage / phase: 230/3 Oil type: Dielectric transformer</p> <p>Wet end and seal options</p> <p>Pump: S4N750M3-4, Solids handling pumps 7.5 HP 230 volt 3 phase Horizontal orientation with Flanged discharge connection Horizontal or vertical discharge: Horizontal discharge Flanged or threaded connection: Flanged discharge Single / Dual seal options: Dual Mechanical seal Impeller Material: Ductile Iron Impeller Impeller Wear Ring: None Upper seal material - elastomer: Carbon ceramic - Nitrile Lower seal material - elastomer: Tungsten carbide - Nitrile Volute material: Cast iron Volute Wear Ring: Bronze volute wear ring</p> <p>Other available pump options</p> <p>O-Ring and gasket material: Nitrile Pump coatings: Green air dry enamel Cord length and gauge: 8-4 SOOW cord, 50 ft</p>

System

Qty	Description
2	<p>Pump Information</p> <p>Wet well configuration</p> <p>Rail system: Metal-To-Metal Installation type: Simplex Wet well depth: Enter wet well depth: 30.00 ft Resultant wet well depth: 30 Float Switch: Not Required Complete Rail Systems: 4" X 6" MTM ;Pump Rail System Intermediate guide rail bracket (requirement based on depth and rail diameter): IGB 4" elbow, 6" piping, 2" eccentric rails Other Accessories: None Door and frame assembly: None Lifting chain and cable assembly: None Leg Kit and Lifting Bails: Pump Lifting Bracket Junction Boxes: None</p>

System

Qty	Description
	Float Brackets: Door and Frame Mounted, Up to 5 Floats SST

Weight

Qty	Description
2	<p>Pump Information</p> <p>Weight</p> <p>Approximate weight for quantity shown</p> <ul style="list-style-type: none"> Pump Weight: 390 lb (176.9 kg) Complete Rail Systems: 300 lb (136.08 kg) Float Brackets: 30 lb (13.61 kg) Total Weight: 720 lb (326.59 kg)

No Group

Qty	Description
2	<p>Mechanical Seal Kit: None</p> <p>Overhaul Kit: None</p>

Item Number / Tags	: McGehee	Size	: Hydromatic - S4N/S4NX
Service	: Glosup LS	Stages	: 1
Quantity	: 2	Based on curve number	: SUB_S_E_AH_00005_B_4 Rev
Quote number	: 0226-06-1901	Date last saved	: 2016-01-14
			: 18 Feb 2026 11:19 AM

Operating Conditions

Flow, rated	: 200.0 USgpm
Differential head / pressure, rated (requested)	: 32.00 ft
Differential head / pressure, rated (actual)	: 32.92 ft
Suction pressure, rated / max	: 0.00 / 0.00 psi.g
NPSH available, rated	: Ample
Site Supply Frequency	: 60 Hz

Performance

Speed criteria	: Synchronous
Speed, rated	: 1750 rpm
Impeller diameter, rated	: 6.75 in
Impeller diameter, maximum	: 8.00 in
Impeller diameter, minimum	: 5.50 in
Efficiency	: 51.05 %
NPSH required / margin required	: - / 0.00 ft
nq (imp. eye flow) / S (imp. eye flow)	: 43 / - Metric units
Minimum Continuous Stable Flow	: 76.43 USgpm
Head, maximum, rated diameter	: 39.68 ft
Head rise to shutoff	: 23.97 %
Flow, best eff. point	: 327.7 USgpm
Flow ratio, rated / BEP	: 61.04 %
Diameter ratio (rated / max)	: 84.38 %
Head ratio (rated dia / max dia)	: 59.92 %
Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 1.00 / 1.00
Selection status	: Acceptable

Liquid

Liquid type	: Water
Additional liquid description	:
Solids diameter, max	: 0.00 in
Solids diameter limit	: 3.00 in
Solids concentration, by volume	: 0.00 %
Temperature, max	: 68.00 deg F
Fluid density, rated / max	: 1.000 / 1.000 SG
Viscosity, rated	: 1.00 cP
Vapor pressure, rated	: 0.34 psi.a

Material

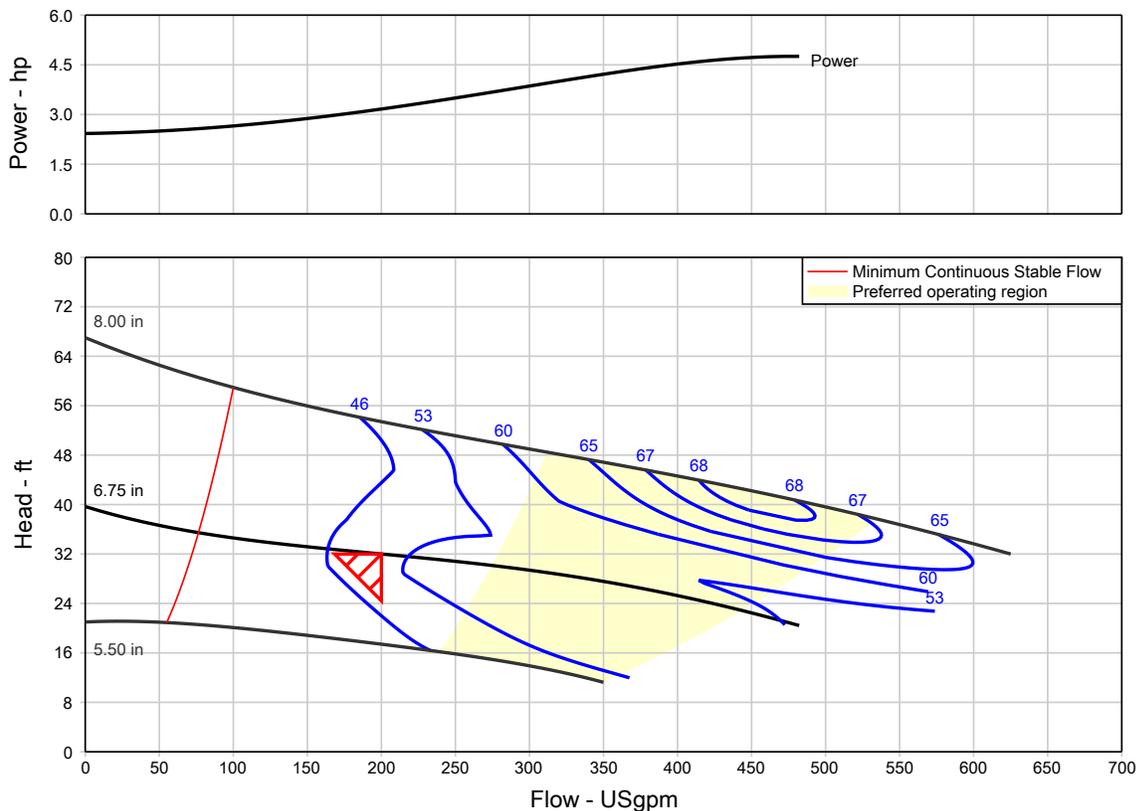
Material selected	: Standard
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Pressure Data

Maximum working pressure	: 17.17 psi.g
Maximum allowable working pressure	: N/A
Maximum allowable suction pressure	: N/A
Hydrostatic test pressure	: N/A

Driver & Power Data (@Max density)

Driver sizing specification	: Max Power
Margin over specification	: 0.00 %
Service factor	: 1.00
Power, hydraulic	: 1.62 hp
Power, rated	: 3.17 hp
Power, maximum, rated diameter	: 4.76 hp
Minimum recommended motor rating	: 5.00 hp / 3.73 kW



Item Number / Tags	: McGehee	Size	: Hydromatic - S4N/S4NX
Service	: Glosup LS	Stages	: 1
Quantity	: 2	Speed, rated	: 1750 rpm
Quote number	: 0226-06-1901	Frame size	:
		Date last saved	: 18 Feb 2026 11:19 AM

Performance Data

Head, maximum diameter, rated flow	: 53.41 ft
Head, minimum diameter, rated flow	: 17.41 ft
Head, maximum, rated diameter	: 39.68 ft
Efficiency adjustment factor, total	: 1.00
Power adjustment, total	: 0.00 hp
Head adjustment factor, total	: 1.00
Flow adjustment factor, total	: 1.00
NPSH3 adjustment factor, total	: 1.00
NPSH margin dictated by pump supplier	: 0.00 ft
NPSH margin dictated by user	: 0.00 ft
NPSH margin used (added to 'required' values)	: 0.00 ft

Mechanical Limits

Torque, rated power, rated speed	: 0.18 hp/100 rpm
Torque, maximum power, rated speed	: 0.27 hp/100 rpm
Torque, driver power, full load speed	: 0.28 hp/100 rpm
Torque, driver power, rated speed	: 0.28 hp/100 rpm
Torque, pump shaft limit	: 1,000 hp/100 rpm
Radial load, worst case	: -
Radial load limit	: -
Impeller peripheral speed, rated	: -
Impeller peripheral speed limit	: -

Stage, Speed and Solids Limits

Stages, maximum	: 1
Stages, minimum	: 1
Pump speed limit, maximum	: 1750 rpm
Pump speed limit, minimum	: 880 rpm
Curve speed limit, maximum	: 1750 rpm
Curve speed limit, minimum	: 1170 rpm
Variable speed limit, maximum	: -
Variable speed limit, minimum	: 1170 rpm
Solids diameter limit	: 3.00 in

Typical Driver Data

Driver speed, full load	: 1760 rpm
Driver speed, rated load	: 1775 rpm
Driver efficiency, 100% load	: 87.50 %
Driver efficiency, 75% load	: 88.20 %
Driver efficiency, 50% load	: 87.50 %

Various Performance Data

	Flow (USgpm)	Head (ft)	Efficiency (%)	NPSH3 (ft)	Power (hp)
Shutoff, rated	0.00	39.68	-	-	2.43
Shutoff, maximum	0.00	67.00	-	-	5.54
Minimum Continuous Stable Flow	76.43	35.46	26.60	-	2.57
Rated flow, minimum	200.0	17.41	43.23	-	2.03
Rated flow, maximum	200.0	53.41	48.56	-	5.55
BEP flow, rated	327.7	28.44	57.95	-	4.06
120% rated flow, rated	240.0	31.07	54.89	-	3.43
End of curve, rated	482.2	20.43	52.29	-	4.76
End of curve, minimum	350.0	11.24	49.79	-	1.99
End of curve, maximum	625.0	32.00	62.98	-	8.02
Maximum value, rated	-	39.68	57.95	-	4.76
Maximum value, maximum	-	-	68.26	-	8.02

System differential pressure

Differential pressure, rated flow, rated (psi)	
Differential pressure, shutoff, rated (psi)	
Differential pressure, shutoff, maximum (psi)	

	@ Density, rated	@ Density, max
	13.85	13.85
	17.17	17.17
	29.00	29.00

Discharge pressure

Discharge pressure, rated flow, rated (psi.g)	
Discharge pressure, shutoff, rated (psi.g)	
Discharge pressure, shutoff, maximum (psi.g)	

	@ Suction pressure, rated	@ Suction pressure, max	@ Suction pressure, rated	@ Suction pressure, max
	13.85	13.85	13.85	13.85
	17.17	17.17	17.17	17.17
	29.00	29.00	29.00	29.00

Ratios

Maximum flow / rated flow, rated	: 241.09 %	Head rated diameter / head minimum diameter, rated flow	: 183.84 %
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Customer Technical Offer

Customer	Instrument and Supply	Size / Stages	Hydromatic - S4N/S4NX / 1
Item Number / Tags	McGehee	Pump speed	1750 rpm
Customer reference		Quote number	0226-06-1901

Pump

Qty	Description
2	<p><i>Hydromatic - S4N/S4NX</i></p> <p>Pump Information</p> <p>Parameters</p> <p>Replacement Pump: No Environment: Ordinary Impeller Diameter Selection Criteria: Impeller diameter calculated from 200 USgpm and 32 Ft Rated Flow: 200 USgpm Rated Head: 32 Ft Impeller Trim: 6.7500 inches - based on curve data Selected Hertz: 60 Speed Rated: 1750 RPM Motor size: 5.00 hp / 3.73 kW Seal Type: Dual Motor voltage / phase: 230/3 Oil type: Dielectric transformer</p> <p>Wet end and seal options</p> <p>Pump: S4N500M3-4, Solids handling pumps 5 HP 230 volt 3 phase Horizontal orientation with Flanged discharge connection Horizontal or vertical discharge: Horizontal discharge Flanged or threaded connection: Flanged discharge Single / Dual seal options: Dual Mechanical seal Impeller Material: Ductile Iron Impeller Impeller Wear Ring: None Upper seal material - elastomer: Carbon ceramic - Nitrile Lower seal material - elastomer: Tungsten carbide - Nitrile Volute material: Cast iron Volute Wear Ring: Bronze volute wear ring</p> <p>Other available pump options</p> <p>O-Ring and gasket material: Nitrile Pump coatings: Green air dry enamel Cord length and gauge: 12-4 SOOW cord, 50 ft</p>

System

Qty	Description
2	<p>Pump Information</p> <p>Wet well configuration</p> <p>Rail system: Metal-To-Metal Installation type: Simplex Wet well depth: Enter wet well depth: 30.00 ft Resultant wet well depth: 30 Float Switch: Not Required Complete Rail Systems: 4" X 6" MTM ;Pump Rail System Intermediate guide rail bracket (requirement based on depth and rail diameter): IGB 4" elbow, 6" piping, 2" eccentric rails Other Accessories: None Door and frame assembly: None Lifting chain and cable assembly: None Leg Kit and Lifting Bails: Pump Lifting Bracket Junction Boxes: None</p>

System

Qty	Description
	Float Brackets: Door and Frame Mounted, Up to 5 Floats SST

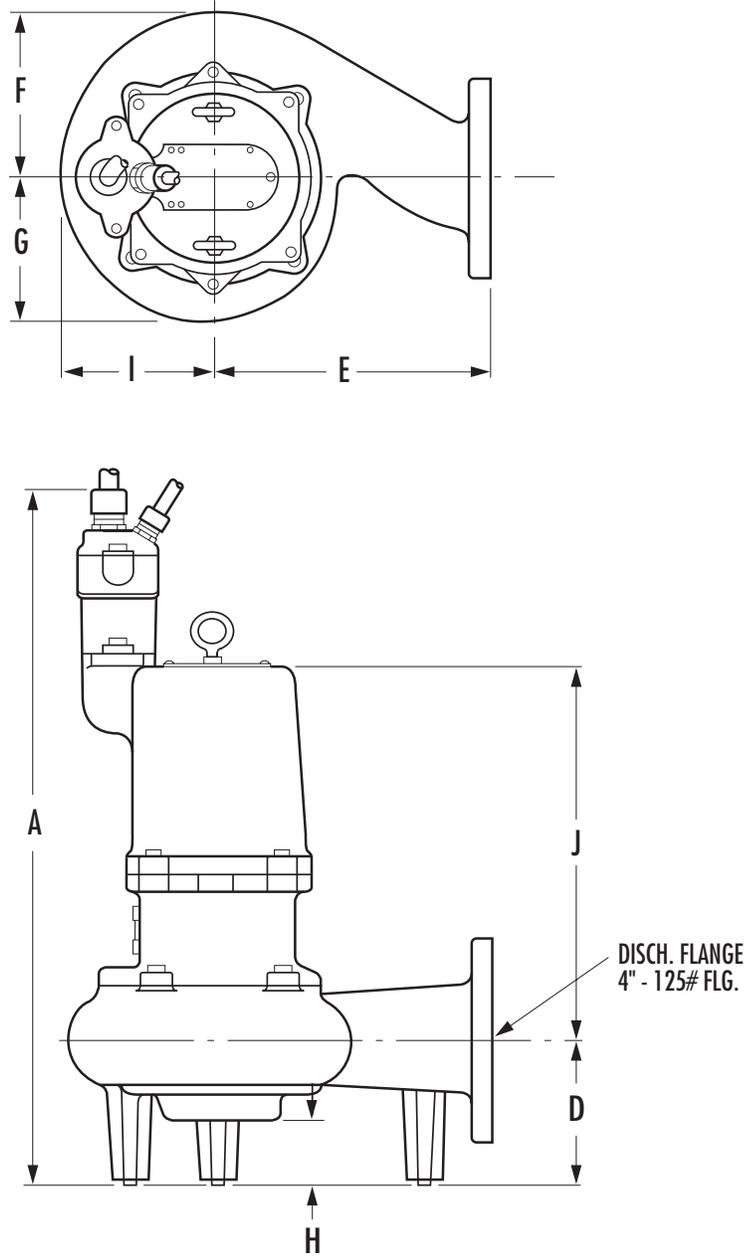
Weight

Qty	Description
2	<p>Pump Information</p> <p>Weight</p> <p>Approximate weight for quantity shown</p> <ul style="list-style-type: none"> Pump Weight: 390 lb (176.9 kg) Complete Rail Systems: 300 lb (136.08 kg) Float Brackets: 30 lb (13.61 kg) Total Weight: 720 lb (326.59 kg)

No Group

Qty	Description
2	<p>Mechanical Seal Kit: None</p> <p>Overhaul Kit: None</p>

Dimensional Data – S4N/S4NS/S4NX



S4NX illustrated above

	A	D	E	F	G	H	I	J
S4N	28-9/16	6-1/2	12-1/2	7-9/16	6-3/8	3-1/8	6-15/16	15-7/16
S4NS	28-9/16	6-1/2	12-1/2	7-9/16	6-3/8	3-1/8	6-15/16	15-7/16
S4NX	31-1/2	6-1/2	12-1/2	7-9/16	6-3/8	3-1/8	6-15/16	16-3/4

ALL DIMENSIONS IN INCHES

NOTE: CASTING DIMENSIONS MAY VARY ± 1/8"

MODEL: S4N/S4NX/S4NS — Solids Handling Sewage Pumps

Physical Data:

DISCHARGE SIZE	4"
IMPELLER TYPE	BALANCED, ENCLOSED, 2 VANE
CABLE LENGTH	35' STANDARD 50' OPTIONAL

Liquid Handling:

SOLIDS SIZE	3"
MAXIMUM LIQUID TEMP.	140°F
ACCEPTABLE PH RANGE	6 - 9
SPECIFIC GRAVITY	0.9 - 1.1
VISCOSITY	28 - 35 SSU

Temperature:

MAXIMUM STATOR	311°F
OIL FLASH POINT	390°F
HEAT SENSOR	Open: 257°F MAX./239°F MIN. Closed: 194°F MAX./119°F MIN.

Technical Data:

POWER CORD TYPE	SOOW, W	
SENSOR CORD TYPE	SOOW	
MATERIALS OF CONSTRUCTION	MOTOR HOUSING	CAST IRON ASTM A-48 CLASS 30 (316 STAINLESS FOR S4NS)
	CASING	CAST IRON ASTM A-48 CLASS 30 (316 STAINLESS FOR S4NS)
	IMPELLER	DUCTILE IRON ASTM A-536 (316 STAINLESS FOR S4NS)
	CASING WEAR RING	BRONZE ASTM B-584-932 ALLOY 315
	MOTOR SHAFT	416 STAINLESS STEEL
	HARDWARE	300 SERIES STAINLESS STEEL
	"O" RINGS	NITRILE
MECHANICAL SEALS	Standard: UPPER AND LOWER CARBON / CERAMIC / NITRILE, TYPE 21 Optional: LOWER TUNGSTEN CARBIDE / TUNGSTEN CARBIDE / NITRILE, TYPE 21 Optional: LOWER SILICON CARBIDE / SILICON CARBIDE / NITRILE, TYPE 21	
UPPER BEARING	(RADIAL) SINGLE ROW — BALL	
LOWER BEARING	(THRUST) SINGLE ROW — BALL	

HYDROMATIC[®] SUBMERSIBLE SOLIDS HANDLING PUMPS





HYDROMATIC®

Hydromatic® Submersible Solids Handling Pumps Are Field Proven and Reliable

You can depend on Hydromatic pumps to provide years of reliable service. As one of the oldest submersible pump manufacturers in the world, Hydromatic offers you field-proven pumps and systems for all your requirements. We also supply complete technical support and ongoing engineering assistance for the life of the pump.

Rugged, Safe Pumps

When government regulations or area classifications require hazardous location pumps, you can depend on Hydromatic submersible solids handling pumps.

Now you can get certified, Class I, Division 1, Group C and/or D hazardous location pumps for applications such as sewage wet wells where flammable gases exist.

Get the Same Reliability

With Hydromatic hazardous location pumps, you get the same reliability and efficiency designed into the non-hazardous location pumps. Plus, you get added safety advantages with FM approved, hazardous location, Hydromatic pumps.

Reliable, safe operation is ensured because all castings are inspected for porosity before, during and after machining. After assembly each hazardous location pump is thoroughly inspected to ensure reliable performance.

Vortex – Recessed Impeller Option

Hydromatic pumps are available with recessed impellers which are virtually impossible to clog. They perform up to shut-off head without damage. The recessed impeller creates a liquid vortex in the volute which directs all spherical solids, slurry, sludge, grit, stringy or fibrous material through the pump without clogging. Recessed impeller pumps are ideal for a broad range of sewage and special waste-handling situations, including high head and low flows and where large solids are present.

H Series – Greater Pump Efficiency

The H Series solids handling pumps, with the enhanced geometry of the monovane impeller, provide greater pump efficiency and steeper non-overloading performances while passing up to a full 3" spherical solid, as is required by the "Ten States Standards" policy for submersible solids handling pumps. H Series pumps are available with horsepower ratings from 7.5 to 15 with speeds up to 1750 RPM.

Installations:

Municipal

- Wastewater transfer
- Wastewater treatment plants
- Wastewater lift stations
- Subdivisions
- Airports
- Storm water

Commercial

- Building wastewater systems
- Wastewater
- Hospitals
- Motels
- Apartments
- Schools
- Churches
- Universities
- Campgrounds
- Amusement parks

Industrial

- Wastewater
- Sump
- Spray wash
- Storm water

Standard Pump Features

A. Motor

Oil filled to efficiently dissipate heat and lock out damaging moisture so you receive reliable pumping service. Easily field serviceable.

B. Connection Box

Two epoxy barriers and a compression fitting prevent water contamination of the motor area, assuring long-term reliable operation. Additionally, epoxy encapsulation and stripped leads positively eliminate "wicking" from the cable.

C. Bearings

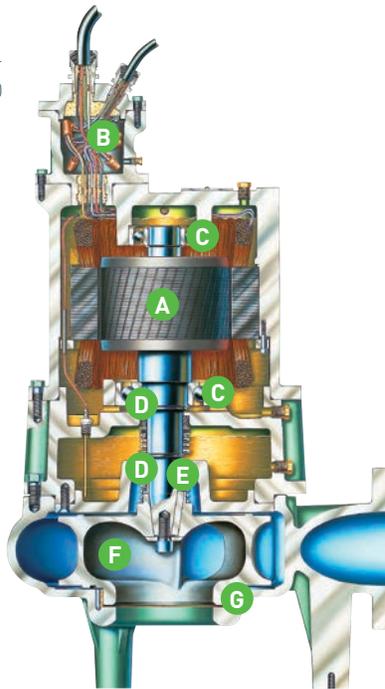
Heavy-duty upper and lower ball bearings are submerged in oil to provide permanent lubrication and ensure long service life.

D. Seals

A dual seal system operates in an oil chamber to provide long pump service life. Various seal options available.

E. Shaft

The stainless steel shaft eliminates corrosion and fatigue for longer pump life. The minimum shaft overhang decreases deflection and increases bearing and seal life. Tapered shaft allows for easy removal of impeller.



F. Impeller

Hydromatic solids handling pumps are available with a wide range of impellers for different applications. Pump-out vanes on the top shroud prevent the buildup of materials in the seal area and extend the life of the thrust bearing by significantly reducing axial thrust.

G. Renewable Case Wear Ring

Easily replaceable, true wear ring, with a top pullout design for easy disassemble operation.

Hazardous Location Pump Features

Flame-Proof Joints

Flame-proof joints have 1-1/4" flame paths. These close tolerance joints prevent any internal spark or fire from escaping into the environment.

Motor Housing

The hazardous location housing wall is thicker throughout the case to give you extra containment capability.

Heavy-Duty Bearings

Hydromatic pumps provide you heavy-duty bearings (minimum B-10 life of 50,000 hours) for long pump life.

Two Moisture Sensors

Two moisture sensors in the oil chamber provide extra security. The sensors are electrically isolated and made with stainless steel connections and stainless steel probes.

Labyrinth Joint

The special labyrinth joint gives you added protection by preventing flame or spark travel to the media being pumped.

Oil-Filled Motor

Dependable Operation

The Hydromatic pump's oil-filled motor keeps the windings cool, eliminates moisture, and permanently lubricates the bearings, to provide reliable pumping service.

The oil bath keeps the motor and bearings cool by dissipating heat and maintaining the correct operating temperature. The oil transfers heat generated in the motor windings to the housing where it is dissipated by the surrounding wet well media. Airborne moisture contamination is locked out so that moisture, which condenses with temperature changes, does not cause premature motor and bearing failure.

The oil bath also permanently lubricates the bearings which minimizes heat and flushes contaminant away from bearing races. Maintenance costs are reduced because bearings do not require routine service and motors do not require a secondary cooling apparatus. Oil-filled motors ensure dependable, reliable service!

Dual Seal System/Moisture Sensor

Dual Seal System Gives Long Pump Service Life

The mechanical dual seal system protects the motor from water with one upper shaft seal and one below an oil chamber. The oil chamber provides lubrication for the seals and traps any moisture that may leak through the lower seal. The upper seal operates entirely in oil. The dual seal design gives the pump exceptionally long service life by keeping pumped media out of the motor housing.

Moisture Sensor Decreases Downtime and Maintenance Costs

The moisture sensor, provided as a standard feature on all solids handling pumps, saves money and decreases downtime by allowing you to take corrective action before an expensive bearing or motor failure occurs. The internal sensor detects the presence of moisture in the oil chamber and signals that the lower seal is beginning to leak.

Some manufacturers put a moisture sensor in the motor area and moisture is not detected until after it affects the bearings and motor itself.

System Operations

Rail Systems for Easy Pump Retrieval

To easily raise and lower your pump(s) for service and maintenance, you can choose from among three rail systems.



Hydr-O-Rail System



MTM Rail System



Pultruded Rail System

Novus Series – A New Generation of Custom Controls

Custom built to your specifications and individually tested, the Hydromatic Novus Series is available in five different models: 1000, 1000 Plus, 2000, 3000 and 4000. The series starts with the dependable yet inexpensive Hydromatic Novus 1000 Series which features basic relay logic controls in a quality NEMA 3R painted steel enclosure. The next model is the Hydromatic Novus 1000 Plus Series offering additional features in a NEMA 4X enclosure for Hydromatic 2 hp grinder packages.



The Hydromatic Novus 2000, 3000 and 4000 Series offer more advanced features. These series use state-of-the-art digital controllers that are optimized for submersible pumps in simplex, duplex or triplex wastewater lift stations.



Novus 2000 Simplex Controller Unit

Novus 2000 Duplex Controller Unit



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ASHLAND, OHIO 44805
WWW.HYDROMATIC.COM

269 TRILLIUM DRIVE, KITCHENER,
ONTARIO, CANADA N2G 4W5
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