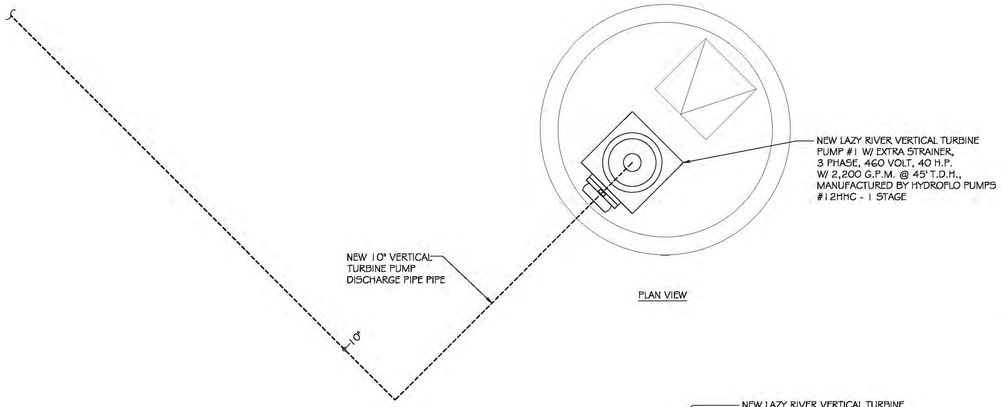
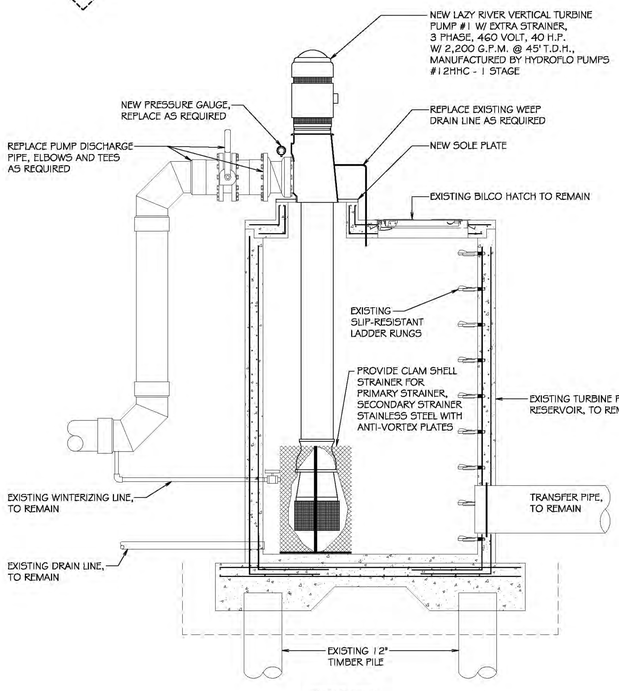


PLAN VIEW



SECTION VIEW

1 NEW TURBINE PUMP #1 DETAIL
(LAZY RIVER TURBINE PUMP #1) SCALE: 1/2" = 1'-0"

PIPE REPLACEMENT NOTES

1. CONTRACTOR TO REPLACE ALL PUMP DISCHARGE PIPES.
2. SAW CUT EXISTING DECK AS REQUIRED TO REPLACE PIPES.
3. ANY SECTIONS OF THE DECK THAT ARE REPLACED SHALL BE SLIP-RESISTANT AND MATCH EXISTING SLOPES.
4. ALL PLUMBING WORK, THROUGHOUT THE ENTIRE SWIMMING POOL PROJECT, SHALL COMPLY AND BE IN ACCORDANCE WITH THE ILLINOIS STATE PLUMBING CODE.
5. ALL POOL RECIRCULATION LINES TO BE SCHEDULE 80 PVC PIPE (ASTM D1785), UNLESS OTHERWISE SPECIFIED. ALL PIPE FITTINGS TO BE SCHEDULE 80 PVC (ASTM D2466), UNLESS OTHERWISE SPECIFIED. PVC PIPING SHALL BE STAMPED WITH N.S.F. SEAL OF APPROVAL.
6. ALL VALVES TWO (2) INCHES AND SMALLER TO BE TRUE UNION PVC BALL VALVES, UNLESS OTHERWISE SPECIFIED. ALL VALVES THREE (3) INCHES AND LARGER TO BE BUTTERFLY VALVES, UNLESS OTHERWISE SPECIFIED.

BONDING NOTE:

1. CONTRACTOR SHALL BOND NEW DECK TO THE EXISTING BONDING GRID IN ACCORDANCE WITH ARTICLE 680.26 OF THE 2008 NATIONAL ELECTRICAL CODE. PROVIDE AN APPROVED BONDING LUG / CLAMP ON ALL EXISTING ITEMS AND CONNECT WITH A #8 SOLID BARE COPPER BONDING WIRE.

VERTICAL TURBINE PUMP INSTALLATION NOTES

1. ALL EQUIPMENT AND PIPES ARE TO REMAIN UNLESS OTHERWISE NOTED.
2. REMOVE AND DISPOSE OF EXISTING FILTRATION PUMP AND MOTOR.
3. INSTALL NEW PUMP AND MOTOR WITH ASSOCIATED PIPES PER MANUFACTURER'S INSTRUCTIONS.
4. ALL PLUMBING WORK, THROUGHOUT THE ENTIRE SWIMMING POOL PROJECT, SHALL COMPLY AND BE IN ACCORDANCE WITH THE ILLINOIS STATE PLUMBING CODE.
5. ALL POOL RECIRCULATION LINES TO BE SCHEDULE 80 PVC PIPE (ASTM D1785), UNLESS OTHERWISE SPECIFIED. ALL PIPE FITTINGS TO BE SCHEDULE 80 PVC (ASTM D2466), UNLESS OTHERWISE SPECIFIED. PVC PIPING SHALL BE STAMPED WITH N.S.F. SEAL OF APPROVAL.
6. ALL VALVES TWO (2) INCHES AND SMALLER TO BE TRUE UNION PVC BALL VALVES, UNLESS OTHERWISE SPECIFIED. ALL VALVES THREE (3) INCHES AND LARGER TO BE BUTTERFLY VALVES, UNLESS OTHERWISE SPECIFIED.

BONDING NOTE:

1. CONTRACTOR SHALL BOND NEW PUMPS AND MOTORS TO THE EXISTING BONDING GRID IN ACCORDANCE WITH ARTICLE 680.26 OF THE 2008 NATIONAL ELECTRICAL CODE. PROVIDE AN APPROVED BONDING LUG / CLAMP ON ALL EXISTING ITEMS AND CONNECT WITH A #8 SOLID BARE COPPER BONDING WIRE.

Pump Data Sheet – Hydroflo Pumps USA, Inc.

HydrofloPumps Fluid Solutions

Pump:
Size: 12HHC (1 stage)
Type: Vertical
Synch Speed: 1800 rpm
Curve: 010311
Specific Speeds:
Dimensions:
Vertical Turbine:
Speed: 1770 rpm
Dia: 9.68 in
Impeller: 12HHC SS ENCL.
Ns: —
Nss: —
Suction: 10 in
Discharge: 10 in
Bowl Size: 11.8 in
Max Lateral: 0.75 in
Thrust K Factor: 16.2 lbf/ft

Search Criteria:
Flow: 2200 US gpm
Head: 45 ft

Fluid:
Water
Density: 62.32 lb/ft³
Viscosity: 0.9948 cP
Temperature: 68 °F
Vapor Pressure: 0.3391 psi a
Atm Pressure: 14.7 psi a
NPSHa: —

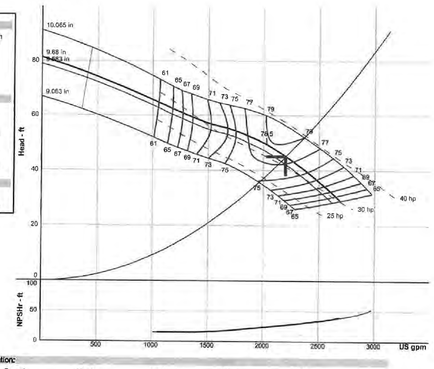
Motor:
Standard: NEMA
Enclosure: WP1
Size: 40 hp
Speed: 1800 rpm
Frame: 324T
Sizing Criteria: Max Power on Design Curve

Pump Limits:
Temperature: 140 °F
Pressure: 300 psi g
Sphere Size: 1.38 in
Power: 300 hp
Eye Area: 29.7 in²

— Duty Point —
Flow: 2200 US gpm
Head: 45 ft
Eff: 77.4%
Power: 32.2 hp
NPSHr: 27.4 ft

— Design Curve —
Shutoff Head: 61.4 ft
Shutoff dP: 35.2 psi
Min Flow: 406 US gpm
BEP: 78.5% @ 2029 US gpm
NOL Power: 32.2 hp @ 2028 US gpm

— Max Curve —
Max Power: 39.5 hp @ 2508 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
2640	1770	30.8	67.3	30.5	38.2
2200	1770	45	77.4	32.2	27.4
1760	1770	54.2	75.3	32	19.5
1320	1770	60	68.1	29.3	15
880	1770	67.5	55.5	27.7	15

WT GROUP
Engineering with Precision, Pace and Passion.
2875 Prairie Avenue | Hoffman Estates, IL 60192
T: 224.293.0551 F: 224.293.0644
wtengineering.com
IL. License No: 184.007570-0015 Expires: 04.30.2021

AQUATIC \ CIVIL \ MECHANICAL \ ELECTRICAL \ PLUMBING \ TELECOMMUNICATION \ STRUCTURAL \ ACCESSIBILITY CONSULTING \ DESIGN & PROGRAM MANAGEMENT \ LAND SURVEY

THE VILLAGE OF ORLAND PARK
CENTENNIAL PARK AQUATIC
NEW LAZY RIVER PROPULSION PUMPS
15600 WEST AVE.
ORLAND PARK, IL 60462

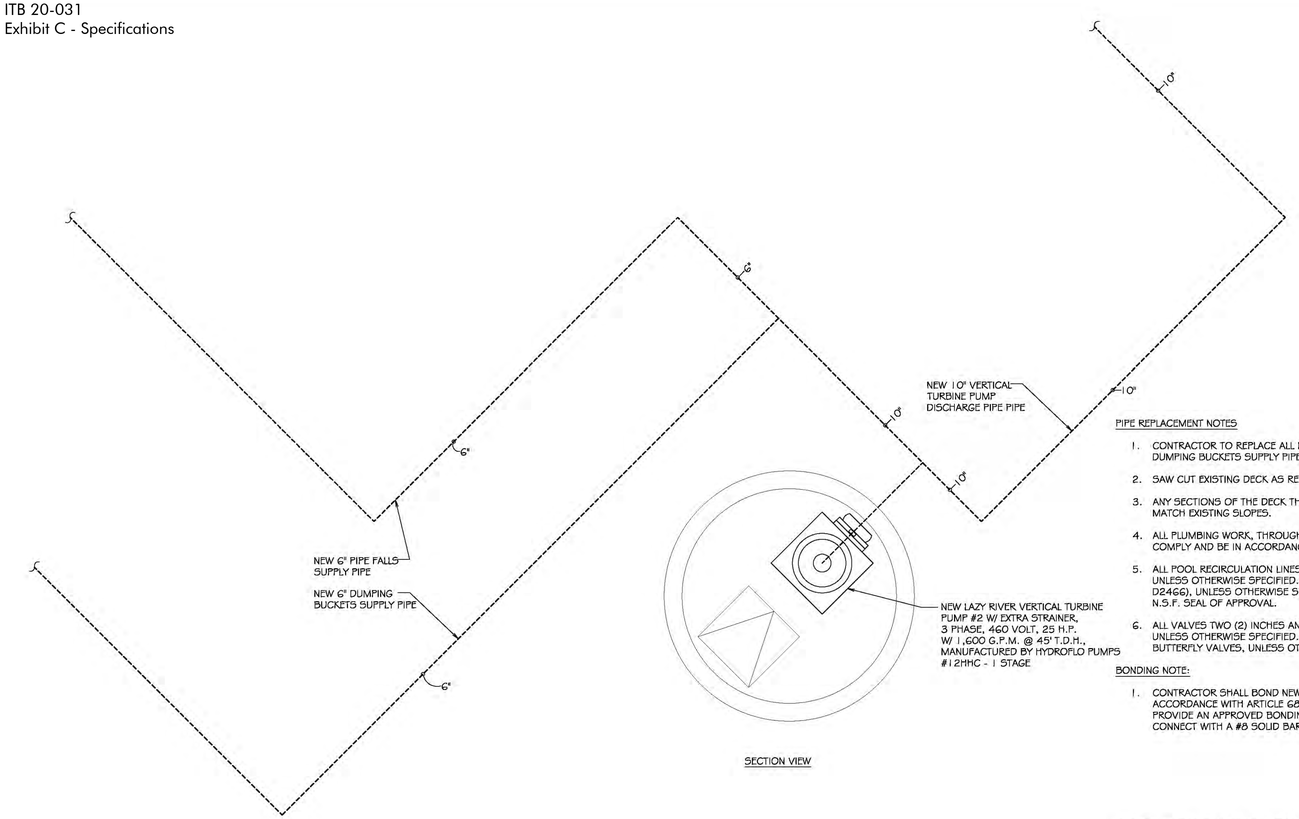
VILLAGE OF ORLAND PARK
14700 S. RAVINIA AVE.
ORLAND PARK, IL 60462
(708) 403-6219

ISSUE

TO	DATE

DRAWN: EAM
JOB: 2000610A

SP-01
VERTICAL TURBINE PUMP SECTION DETAIL AND PUMP CURVE



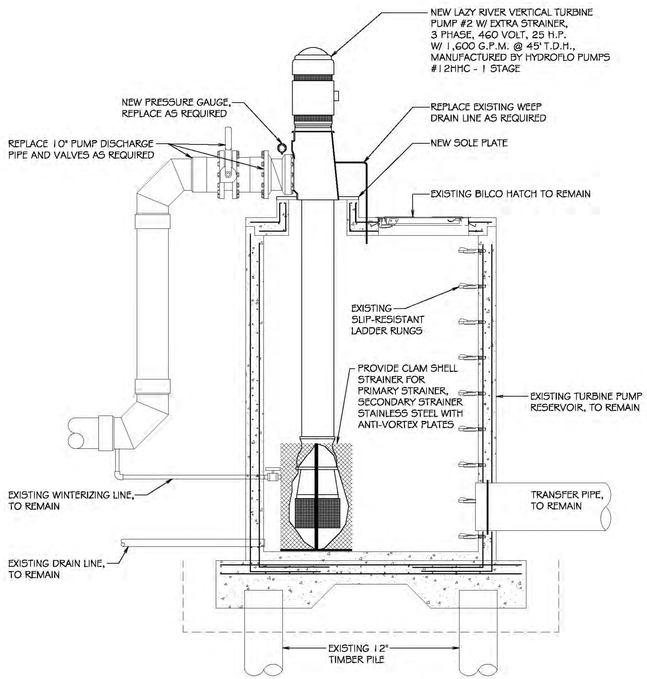
SECTION VIEW

PIPE REPLACEMENT NOTES

1. CONTRACTOR TO REPLACE ALL PIPING FROM THE TURBINE PUMP DISCHARGE, DUMPING BUCKETS SUPPLY PIPE AND PIPE FALLS SUPPLY PIPE.
2. SAW CUT EXISTING DECK AS REQUIRED TO REPLACE PIPES.
3. ANY SECTIONS OF THE DECK THAT ARE REPLACED SHALL BE SLIP-RESISTANT AND MATCH EXISTING SLOPES.
4. ALL PLUMBING WORK, THROUGHOUT THE ENTIRE SWIMMING POOL PROJECT, SHALL COMPLY AND BE IN ACCORDANCE WITH THE ILLINOIS STATE PLUMBING CODE.
5. ALL POOL RECIRCULATION LINES TO BE SCHEDULE 80 PVC PIPE (ASTM D1785), UNLESS OTHERWISE SPECIFIED. ALL PIPE FITTINGS TO BE SCHEDULE 80 PVC (ASTM D2466), UNLESS OTHERWISE SPECIFIED. PVC PIPING SHALL BE STAMPED WITH N.S.F. SEAL OF APPROVAL.
6. ALL VALVES TWO (2) INCHES AND SMALLER TO BE TRUE UNION PVC BALL VALVES, UNLESS OTHERWISE SPECIFIED. ALL VALVES THREE (3) INCHES AND LARGER TO BE BUTTERFLY VALVES, UNLESS OTHERWISE SPECIFIED.

BONDING NOTE:

1. CONTRACTOR SHALL BOND NEW DECK TO THE EXISTING BONDING GRID IN ACCORDANCE WITH ARTICLE 680.26 OF THE 2008 NATIONAL ELECTRICAL CODE. PROVIDE AN APPROVED BONDING LUG / CLAMP ON ALL EXISTING ITEMS AND CONNECT WITH A #8 SOLID BARE COPPER BONDING WIRE.



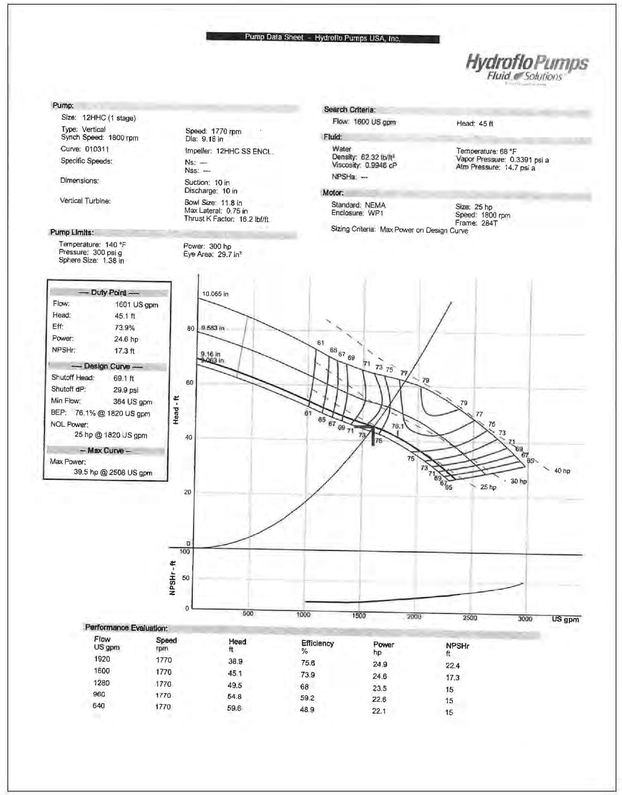
SECTION VIEW

VERTICAL TURBINE PUMP INSTALLATION NOTES

1. ALL EQUIPMENT AND PIPES ARE TO REMAIN UNLESS OTHERWISE NOTED.
2. REMOVE AND DISPOSE OF EXISTING FILTRATION PUMP AND MOTOR.
3. INSTALL NEW PUMP AND MOTOR WITH ASSOCIATED PIPES PER MANUFACTURER'S INSTRUCTIONS.
4. ALL PLUMBING WORK, THROUGHOUT THE ENTIRE SWIMMING POOL PROJECT, SHALL COMPLY AND BE IN ACCORDANCE WITH THE ILLINOIS STATE PLUMBING CODE.
5. ALL POOL RECIRCULATION LINES TO BE SCHEDULE 80 PVC PIPE (ASTM D1785), UNLESS OTHERWISE SPECIFIED. ALL PIPE FITTINGS TO BE SCHEDULE 80 PVC (ASTM D2466), UNLESS OTHERWISE SPECIFIED. PVC PIPING SHALL BE STAMPED WITH N.S.F. SEAL OF APPROVAL.
6. ALL VALVES TWO (2) INCHES AND SMALLER TO BE TRUE UNION PVC BALL VALVES, UNLESS OTHERWISE SPECIFIED. ALL VALVES THREE (3) INCHES AND LARGER TO BE BUTTERFLY VALVES, UNLESS OTHERWISE SPECIFIED.

BONDING NOTE:

1. CONTRACTOR SHALL BOND NEW PUMPS AND MOTORS TO THE EXISTING BONDING GRID IN ACCORDANCE WITH ARTICLE 680.26 OF THE 2008 NATIONAL ELECTRICAL CODE. PROVIDE AN APPROVED BONDING LUG / CLAMP ON ALL EXISTING ITEMS AND CONNECT WITH A #8 SOLID BARE COPPER BONDING WIRE.


Pump Data Sheet -- Hydroflo Pumps USA, Inc.

Hydroflo Pumps Fluid Solutions

Pump:
Size: 12HHC (1 stage)
Type: Vertical
Synch Speed: 1800 rpm
Curve: 010311
Specific Speeds:
Dimensions:
Vertical Turbine:
Speed: 1770 rpm
Dia: 9.16 in
Impeller: 12HHC SS ENCL.
Ns: ---
Nss: ---
Suction: 10 in
Discharge: 10 in
Bowl Size: 11.8 in
Max Lateral: 0.75 in
Thrust K Factor: 16.2 lbf/ft

Search Criteria:
Flow: 1600 US gpm
Head: 45 ft

Fluid:
Water
Density: 62.32 lb/ft³
Viscosity: 0.9946 cP
NPSHa: ---
Temperature: 68 °F
Vapor Pressure: 0.3391 psi a
Atm Pressure: 14.7 psi a

Motor:
Standard: NEMA
Enclosure: WP1
Size: 25 hp
Speed: 1800 rpm
Frame: 284T
Sizing Criteria: Max Power on Design Curve

Pump Limits:
Temperature: 140 °F
Pressure: 300 psi g
Sphere Size: 1.38 in
Power: 300 hp
Eye Area: 29.7 in²

— Duty Point —

Flow:	1601 US gpm
Head:	45.1 ft
Eff:	73.9%
Power:	24.6 hp
NPSHr:	17.3 ft

— Design Curve —

Shutoff Head:	69.1 ft
Shutoff dP:	29.9 psi
Min Flow:	384 US gpm
BEP:	76.1% @ 1820 US gpm
NOL Power:	25 hp @ 1820 US gpm

— Max Curve —

Max Power: 39.5 hp @ 2506 US gpm

Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
1920	1770	38.9	76.6	24.9	22.4
1600	1770	45.1	73.9	24.6	17.3
1280	1770	49.5	68	23.5	15
960	1770	54.8	59.2	22.6	15
640	1770	59.6	48.9	22.1	15

1 NEW TURBINE PUMP #2 DETAIL
(LAZY RIVER TURBINE PUMP #2) SCALE: 1/2" = 1'-0"

AQUATIC \ CIVIL \ MECHANICAL \ ELECTRICAL \ PLUMBING \ TELECOMMUNICATION \ STRUCTURAL \ ACCESSIBILITY CONSULTING \ DESIGN & PROGRAM MANAGEMENT \ LAND SURVEY

WT GROUP
Engineering with Precision, Place and Passion.
2975 Pratum Avenue | Hoffman Estates, IL 60192
T 224.293.5555 | F 224.293.5444
wtengineering.com
IL License No: 184.007570-0015 Expires: 04.30.2021

WT Group
Engineering • Design • Consulting

THE VILLAGE OF ORLAND PARK
CENTENNIAL PARK AQUATIC
NEW LAZY RIVER PROPULSION PUMPS
15600 WEST AVE.
ORLAND PARK, IL 60462

VILLAGE OF ORLAND PARK
14700 S. RAVINIA AVE.
ORLAND PARK, IL 60462
(708) 403-6219

ISSUE

TO	DATE

DRAWN: EAM

JOB: 2000610A

SP-02

VERTICAL TURBINE PUMP SECTION DETAIL AND PUMP CURVE

VERTICAL TURBINE PUMP SPECIFICATION:

MOTOR

1. VERTICAL HOLLOW SHAFT MOTOR, HIGH THRUST DESIGN FOR VERTICAL TURBINE PUMP OPERATION:
2. ENCLOSURE: WP1 OR TEFC
3. VOLTAGE: 460 (CONTRACTOR TO CONFIRM VOLTAGE PRIOR TO ORDERING PUMPS)
4. PHASE: 3
5. SPEED: 1800 RPM OR 1200 RPM. 3600 RPM NOT ACCEPTABLE
6. MANUFACTURE US. GE, SEMANS OR APPROVED EQUAL

NOTE: WIRE NUTS ARE NOT ACCEPTABLE ON MOTOR CONNECTIONS

PUMPS

1. MANUFACTURE HYDROFLO, JOHNSTON, PACO, OR APPROVED EQUAL. SEE DESIGN CRITERIA FOR SPECIFIC FLOWS, HEADS, ENCLOSURE, HP, PHASE, VOLTAGE, RPM, AND LENGTHS.
2. PUMP MANUFACTURE MUST GET ENGINEER APPROVAL BEFORE BID.
3. ALL PUMP HARDWARE TO BE 300 SERIES STAINLESS STEEL.
4. ALL PUMP PARTS CAST IRON, STEEL AND DUCTIL IRON COATING INSIDE AND OUT TO BE 134 SCOTCHKOTE POWDER COATED EPOXY SUITABLE FOR HEAVY CHLORINATED WATER AT 90°F.

DISCHARGE HEAD

1. DUCTILE IRON FLANGE DISCHARGE HEAD WITH PACKED STUFFING BOX WITH JOHN CRANE TYPE 1345 GRAPHITE PACKING.
2. SS RECIRC LINE.
3. ALL HARDWARE 316 SS.
4. TWO-PIECE HEAD SHAFT DESIGN. ONE PEACE HEAD SHAFT DESIGN NOT ACCEPTABLE.
5. EPOXY COATED INSIDE AND OUT.

SHAFT

1. ALL SHAFTING TO BE PH 17-4 PH STAINLESS STEEL, NO EXCEPTIONS.
2. ALL COUPLINGS TO BE 300 SERIES STAINLESS.

BEARING

1. ALL BEARING TO BE COMPOSITE TYPE, VESCONITE OR CARBON GRAPHITE. NO OTHER MATERIAL ACCEPTABLE UNLESS APPROVED BY ENGINEER BEFORE BID.

COLUMN ASSEMBLY

NOTE: ALL COLUMNS PIPE TO FLANGE, FIRST SECTION OFF OF DISCHARGE HEAD TO BE 24' FACE TO FACE.

1. MAX BEARING SPANS 5 FEET
2. MIN SHAFT DIAMETERS 1" - 213 THRU 215 FRAME MOTORS
3. MIN. SHAFT DIAMETER 1 3/16" - 254 THRU 326 FRAME MOTORS
4. MIN. SHAFT DIAMETER 1 1/2" - 364 THRU 405 FRAME MOTORS
5. THE COLUMN PIPE SHALL BE SCHEDULE 40. THE COLUMN PIPE SHALL BE COATED INSIDE AND OUT WITH A 134 SCOTCHKOTE POWDER COATED EPOXY SUITABLE FOR HEAVY CHLORINATED WATER AT 90°F.
6. PUMP STRAINER TO BE 5 TO 7 INCHES OFF BOTTOM OF BASIN NO HIGHER CONTRACTOR TO CONFIRM BOTH BASIN DEPTHS.

SPIDERS

1. ALL SPIDERS, 201SS OR 300 SERIES SS CONSTRUCTION.

BOWL ASSEMBLY

1. CAST IRON BOWLS EPOXY LINED, STAINLESS STEEL IMPELLER ENCLOSED OR SEMI-OPEN AND SINGLE THROUGH FOUR STAGE ASSEMBLIES ARE ACCEPTABLE.

PRIMARY STAINER

1. 304 SS. CONSTRUCTION CLIP ON STAINER WITH ANTI-VORTEX RIBS.

SOLE PLATE

1. CAST IRON OR BABRICATED STEEL.
2. FUSE COATED EPOXY
3. SS HARDWARE

1. CONTRACTOR TO VERIFY IN FIELD ALL EXISTING CONDITIONS INCLUDING, BUT NOT LIMITED TO, TYPE AND SIZE OF JOINT AND EXISTING JOINT MATERIAL.
2. CLEAN, PREPARE JOINTS AND APPLY PRIMER AS RECOMMENDED BY MANUFACTURER.
3. INSTALL BACKER ROD OR BOND BREAKER AS NECESSARY TO PREVENT 3-SIDED ADHESION OF SEALANT TO ADJACENT SUBSTRATES.

PUMP ASSEMBLY

1. ALL PUMPS MUST BE ASSEMBLED AT FACTORY OR APPROVED FACTORY SERVICE CENTER.

DESIGN CRITERIA

DESIGN: 2200 USGPM @ 45' TDH, 1770 RPM, *

77.4% Efficient, 32.2 BHP, 9.51 Feet TPL (+/- 1.5")
1 12HHC1C-45064-w_B2 **12HHC - 1 Stage W/L VERTICAL TURBINE PUMP ASSEMBLY**
***** Fully Assembled Vertical Turbine *****
DRIVER ASSEMBLY SECTION
• US 40HP, 1800RPM, 3PH/60Hz/230-460V, Premium Efficient, 324TP Frame VHS-WP1 w/ NRR and 1.1875" Drive Coupling
– Motor Type: RUS
– Motor CD = 28.219"
DISCHARGE HEAD ASSEMBLY SECTION
• 1.1875" x 34.219" x 416SS Head Shaft Assembly w/ 12TPI-LH Bronze Adjusting Nut and Key
• HF10 Ductile Iron Head with 10" 125# Discharge Flange
– Head Coating: Coating Inside and Outside-Scotchkote 134 of Discharge Head
– Shaft Guard: Universal 304SS
– 1.1875" Cast Iron Packing Box Assembly w/ Hydroflo FEP Bearing, John Crane #1345 Packing, Bronze Lantern Ring and SS Packing Gland
• Base Plate: Standard Steel HF10 24" W x 24" L x 1" Thick
– 6-8 mils Scotchkote 134 Coating of Base Plate
• Machine Head for Flange
COLUMN ASSEMBLY SECTION
• 2 Piece Fabricated Steel Column Assembly: ~ 6.93' of 10" x .365" Wall Steel Water Lubricated Column with Flanged Ends
– Bottom 5' Column
– Column Coating: Coating ID and OD-Scotchkote 134 of Column Assembly
• 1 Pc(s): 10" x 2" x .75" 304SS Spiders w/ Rubber Inserts
• 2 Piece Lineshaft Assembly: 1.1875" -12TPI x 120" x 17-4pH w/ 316SS Couplings
– Top Shaft: 1.1875" -12TPI x 17-4pH w/ 316SS Coupling
– Lineshaft: 1.1875" -12TPI x 17-4pH w/ 316SS Couplings

BOWL ASSEMBLY SECTION
• 12HHC - 1 Stage Product Lubricated Bowl Assembly w/ 18-8 SS Fasteners including:
– * No Discharge Case - Column to be Flanged Directly to Bowl
– Ductile Iron Bowls
– Hydroflo FEP Bowl Bearings
– 201SS Impellers with 316SS Collets
– 17-4pH Bowl Shaft: 8.00" Water Lube Projection x 1.1875" DIA - 12 TPI
– 10" NPT, Ductile Iron Suction Case with Hydroflo FEP Bearing
– Pump End Coating: Coating Outside Only-Scotchkote 134 of Pump End
• 304SS Bolt-On Basket Strainer with Vortex Suppression
• Crating and Painting
• Min. Submergence from Bottom of Suction for Vortex Suppression = 37" (In.).
****This does not include NPSHr requirements. NPSHr at Duty Point = 27.4' (Ft.).**
• Estimated Total Assembly Weight As Above: 2107 Lbs.

* DESIGN: 1601 USGPM @ 45.1' TDH, 1770 RPM, *

73.9% Efficient, 24.6 BHP, 9.51 Feet TPL (+/- 1.5")
1 12HHC1C-45066-w_B0 **12HHC - 1 Stage W/L VERTICAL TURBINE PUMP ASSEMBLY**
***** Fully Assembled Vertical Turbine *****
DRIVER ASSEMBLY SECTION
• US 25HP, 1800RPM, 3PH/60Hz/230-460V, Premium Efficient, 284TPA Frame VHS-WP1 w/ NRR and 1.1875" Drive Coupling
– Motor Type: AUS
– Motor CD = 24.75"
DISCHARGE HEAD ASSEMBLY SECTION
• 1.1875" x 30.75" x 316SS Head Shaft Assembly w/ 12TPI-LH Bronze Adjusting Nut and Key
• HF8 Ductile Iron Head with 8" 125# Discharge Flange
– Head Coating: Coating Inside and Outside-Scotchkote 134 of Discharge Head
– Shaft Guard: Universal 304SS
– 1.1875" Cast Iron Packing Box Assembly w/ Hydroflo FEP Bearing, John Crane #1345 Packing, Bronze Lantern Ring and SS Packing Gland
• Base Plate: Standard Steel HF8 24" W x 24" L x 1" Thick
– 6-8 mils Scotchkote 134 Coating of Base Plate
• Machine Head for Flange
COLUMN ASSEMBLY SECTION
• 2 Piece Fabricated Steel Column Assembly: ~ 6.93' of 8" x .322" Wall Steel Water Lubricated Column with Flanged Ends
– Bottom 5' Column
– Column Coating: Coating ID Only-Scotchkote 134 of Column Assembly
• 1 Pc(s): 8" x 2" x .75" 304SS Spiders w/ Rubber Inserts
• 2 Piece Lineshaft Assembly: 1.1875" -12TPI x 120" x 17-4pH w/ 316SS Couplings
– Top Shaft: 1.1875" -12TPI x 17-4pH w/ 316SS Coupling
– Lineshaft: 1.1875" -12TPI x 17-4pH w/ 316SS Couplings

BOWL ASSEMBLY SECTION
• 12HHC - 1 Stage Product Lubricated Bowl Assembly w/ 18-8 SS Fasteners including:
– * No Discharge Case - Column to be Flanged Directly to Bowl
– Ductile Iron Bowls
– Hydroflo FEP Bowl Bearings
– 201SS Impellers with 316SS Collets
– 17-4pH Bowl Shaft: 8.00" Water Lube Projection x 1.1875" DIA - 12 TPI
– 10" NPT, Ductile Iron Suction Case with Hydroflo FEP Bearing
– Pump End Coating: Coating Outside Only-Scotchkote 134 of Pump End
• 304SS Bolt-On Basket Strainer with Vortex Suppression
• Crating and Painting
• Min. Submergence from Bottom of Suction for Vortex Suppression = 37" (In.).
****This does not include NPSHr requirements. NPSHr at Duty Point = 17.3' (Ft.).**
• Estimated Total Assembly Weight As Above: 1641 Lbs.

3M™ Scotchkote™ Fusion-Bonded Epoxy Coating 134

Product Description

Temperature Operating Range

Product Features

General Application Information

Cure Specifications

3M

3M™ Scotchkote™ Fusion-Bonded Epoxy Coating 134 Test Data

Handling and Safety Precautions

Ordering Information/Customer Service

Important Notice

Warranty; Limited Remedy; Limited Liability.

3M

Infrastructure Protection Division

3M™ Scotchkote™ Fusion-Bonded Epoxy Coating 134 Cure Guide

Typical Properties

Chemical/Pressure/Temperature Resistance

AQUATIC \ CIVIL \ MECHANICAL \ ELECTRICAL \ PLUMBING \ TELECOMMUNICATION \ STRUCTURAL \ ACCESSIBILITY CONSULTING \ DESIGN & PROGRAM MANAGEMENT \ LAND SURVEY

WT GROUP
Engineering with Precision, Pace and Passion.
2675 Pratum Avenue | Hoffman Estates, IL 60192
T: 224.293.6333 | F: 224.293.6444
wtengineering.com
IL. License No: 184.007570-0015 Expires: 04.30.2021

WT Group
Engineering • Design • Consulting

THE VILLAGE OF ORLAND PARK
CENTENNIAL PARK AQUATIC
NEW LAZY RIVER PROPULSION PUMPS
15600 WEST AVE.
ORLAND PARK, IL 60462

VILLAGE OF
ORLAND PARK
14700 S. RAVINIA AVE.
ORLAND PARK, IL 60462
(708) 403-6219

ISSUE

TO	DATE

DRAWN: EAM
JOB: 2000610A

SP-03
SPECIFICATIONS AND DESIGN CRITERIA