



PERMIT NO.
23458

CITY OF NEW BEDFORD
SEWER AND/OR STORM DRAIN PERMIT

DATE 9-12-2003

This certifies that permission is granted to

King's Plaza Assc. 1 Wynnewood Rd Wynnewood, PA 610-552-6000
Property Owner Address Tel.

To connect a sewer and/or storm drain located at King's Hwy (SS) (formerly Ames Store)

Assessor's Plot 123 Lot 109, to the sewer and/or storm drain in King's Hwy Street

To be laid in accordance with the conditions in this application and the City of New Bedford ordinances.

TYPE OF USE: RESIDENTIAL COMMERCIAL INDUSTRIAL OTHER 200 GPM

If applicant other than actual property owner, attach Letter of Authorization from Property Owner.

Name Matt O'Reilly JMG Construction Tel.
Mailing Address See below

The Bonded Contractor/Drain Layer authorized to perform this work is:

JMG Construction 22 Parker Ave Cohasset, MA 02035 508-785-0515
Name Address Tel.

Type of Pipe Required: PVC SDR

PERMIT EXPIRES ONE YEAR AFTER DATE OF ISSUE 9-12-2004

- Requires separate connections for sewage and storm drain where applicable. Storm water cannot be discharged to a sanitary sewer.
 - All work must be inspected and approved by a D.P.I. inspector before backfilling.
 - If this connection is to be part of a private service shared jointly with other building owners, attach copy of Recorded Joint Maintenance Agreement.
 - Permits can be issued to Industrial and/or Commercial Applicants only upon receipt and approval by the Commissioner of Public Infrastructure of required plans and supplemental information.
 - In addition, a City-issued Industrial User Discharge Permit and/or a Sewer Extension/Connection Permit issued by the Commonwealth of Massachusetts D.E.P. shall be required by the City for Industrial Discharge into the sewer system.
- Industrial User Discharge Permit No. Date

Comm. Mass. Sewer Conn./Ext. Permit No. Date

A Filing and Inspection Fee of \$150.00, plus an Entrance Fee of \$ where applicable, must accompany this application.

Bank# Middlesex Bank Trust Co Check# 1102 Date 9/12/03 Receipt# 4719

Other requirements: Inspection on Private Property Only, Connect 2 ejector pumps into Manhole

Connection made to Sewer Part of jointly-shared private line YES NO
Storm Drain

Applicant agrees to abide by the above terms, as well as all pertinent ordinances of the City of New Bedford, and such other special rules as the Commissioner of Public Infrastructure and/or City Engineer may deem necessary

Duarte M. Andrade City Engineer

Signature of Property Owner or Representative
Matt O'Reilly

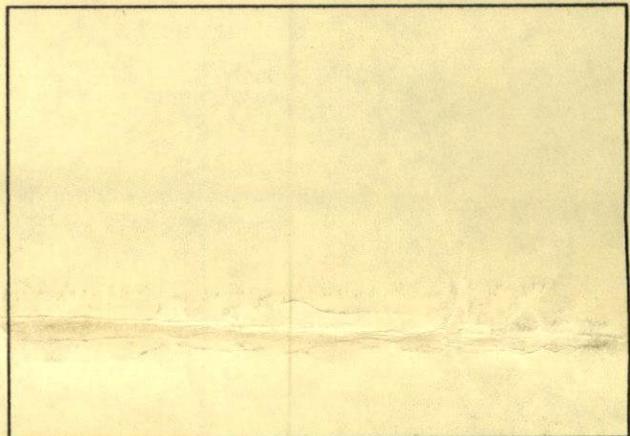
INSPECTOR'S REPORT

INSPECTED BY: Kevin J. Connel
DATE: 9-12-03

COMMENTS: MH FILLED WITH WATER FOR TEST NOT ABLE TO SEE PUMPS

APPROVED DISAPPROVED

Kevin J. Connel SIGNATURE



SKETCH PLAN



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Quarto M. Andrade (MS)
City Engineer

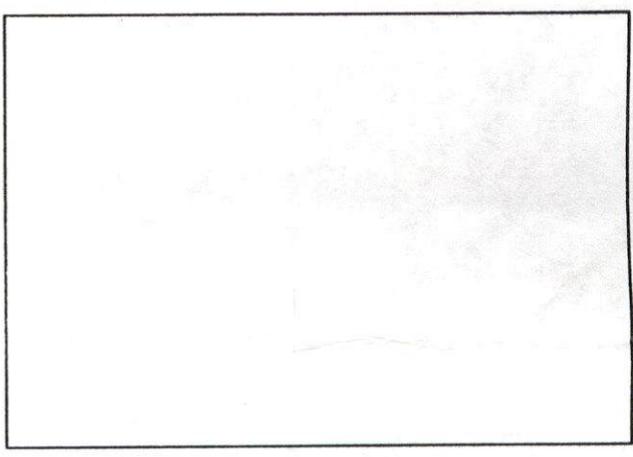
Matt O'Reilly
Signature of Property Owner or Representative

INSPECTOR'S REPORT

INSPECTED BY: _____
DATE: _____
COMMENTS: _____

APPROVED _____ DISAPPROVED _____

SIGNATURE



SKETCH PLAN

FROM : N.B.D.E.W. ENGINEERING DIV.

PHONE NO. : 508 961 3043

Sep. 11 2003 01:31PM P1

CITY OF NEW BEDFORD MASSACHUSETTS



DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
133 WILLIAM STREET, ROOM 303
NEW BEDFORD, MA 02740
Tel: (508) 979-1527
Fax: (508) 961-3043

To Whom It May Concern:

I, Tim Smith One Wynnewood Rd. Wynnewood PA. 19096, being
(Name) (Mailing Address)

Owner of property located at Kings Plaza, Kings Hwy. New Bedford MA

Plot _____, Lot _____, hereby agree to allow Matt O' Reilly, JMG
(Name)

Construction to act on my behalf including affixing my
(Mailing Address)

signature in securing permit for:

- Sewer/Drain Service Permits
- Water Service Permits
- Driveway Installation Permits
- Sidewalk Installation Permits

I further agree to conform to, and abide by, all City rules and ask regulations applicable to the permit (s) being applied for:

Name [Signature]
(Signature)

One Wynnewood Rd. Wynnewood PA.
(Address)

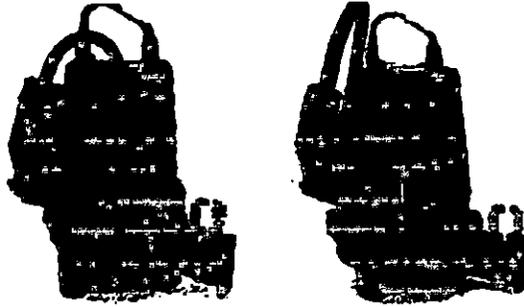
9/11/03 610-552-6070
(Date) (Telephone number)



Tim Smith
Regional Property Manager

One Wynnewood Road
Wynnewood, PA 19096
tsmith@wprealty.com

610-552-6000
Fax 610-552-6001
Property Mgmt 610-552-6070



Grinder Pumps

SERIES 1GA-2GA

1 1/2" and 2" Grinder Pumps

APPLICATIONS

High head and pressure sewage systems for:

- Municipal
- Commercial
- Industrial

SPECIFICATIONS

Pump:

- Capacities: to 200 GPM.
- Total heads: to 180 TDH.
- 1-1/2" NPT discharge - standard on 3 & 5 HP Lowflow models
- 2" NPT discharge - standard on HighFlow 5 & 7-1/2 HP models
- Temperature: 104°F (40°C) continuous
- Tandem mechanical seals: see Application Data for details.
- Fasteners: 300 series stainless steel.
- Rotating cutter: chrome alloyed cast iron.
- Cutter Ring: hardened 316L stainless steel.
- Three phase: 3, 5, 7.5 HP, 3500 RPM. Overload protection must be provided in control panel.
- Shaft: 400 series stainless steel, taper collet design.
- Oversized, pre-greased upper and lower ball bearings.
- Power cord: 30 feet standard, single jacket, seven conductor, power/control cable. Optional lengths available.
- All Cast Iron Parts are ASTM A-48, Class 35B.

FEATURES

- **Design:** Capable of grinding municipal, commercial and industrial sewage.
- **Cutter System:** Designed to reduce sewage to a fine slurry.
- **Impeller:** Cast iron, semi-open, non-overloading multi-vane design with pump-out vanes for mechanical seal protection.
- **Casing:** Cast iron, volute type for high efficiency. Adaptable for slide rail system.
- **Paint:** Two coat paint system for superior surface protection.
- **Seal Leakage Probe:** Standard on all models.
- **Sensor/Leak Detector Circuit:** Available as a panel option or may be purchased separately.

MOTOR

- **Air Filled, NEMA B type,** with class F Insulation (155°C).
- **Designed for 15 starts per hour.**
- **Built-in thermal sensors in motor windings provide over temperature signal to control panel. Over temperature signal ties into sensor/leak detector circuit. This is ordered as a control panel option or may be purchased separately.**



Pump Disconnect Rail System

FEATURES

1½, 1½ and 2" bronze disconnect and bottom brackets are non-sparking and corrosion resistant. Top bracket is vinyl-coated steel. The 60° cut-out allows removable half of disconnect to be removed from the guide rails without removing the top bracket. System will accept ½" PVC, stainless steel, or galvanized steel guide rails.

(Not supplied by Goulds Pumps).



Pump Discharge Size	Part No.
1½"	APD12
1½"	APD15
2"	APD20



3" Bronze disconnect is built to satisfy the greater demands of 3" pumps. System accepts ½" PVC, stainless steel, or galvanized steel guide rails.

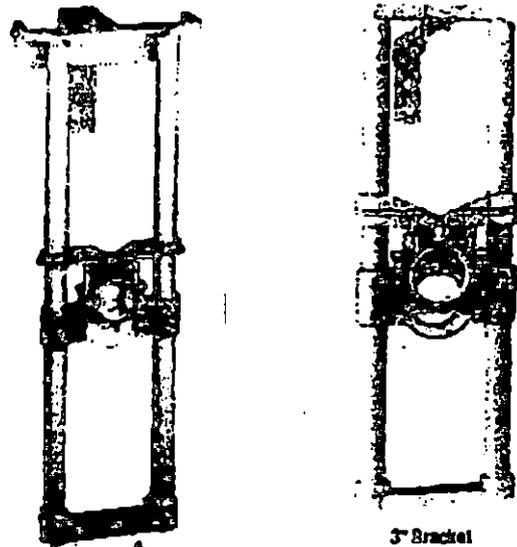
(Not supplied by Goulds Pumps).

Pump Discharge Size	Part No.
3"	APD30

TEFLON O-RINGS FOR QUICK DISCONNECT SYSTEMS

(APD and AF series)

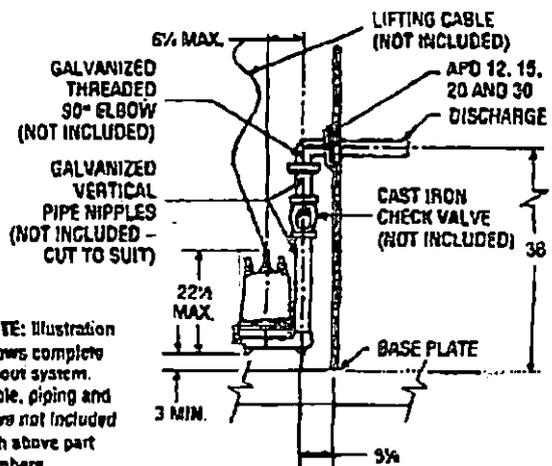
Size	Order No.
1½"	AR327
1½"	AR35T
2"	AR33T
3"	AR35T



(2) ½" THROUGH HOLES

1½" to 2" Bracket

3" Bracket



NOTE: Illustration shows complete lift out system. Cable, piping and valve not included with above part numbers.

Goulds Pumps



ITT Industries

Grinder Pumps

SERIES 1GA 2GA

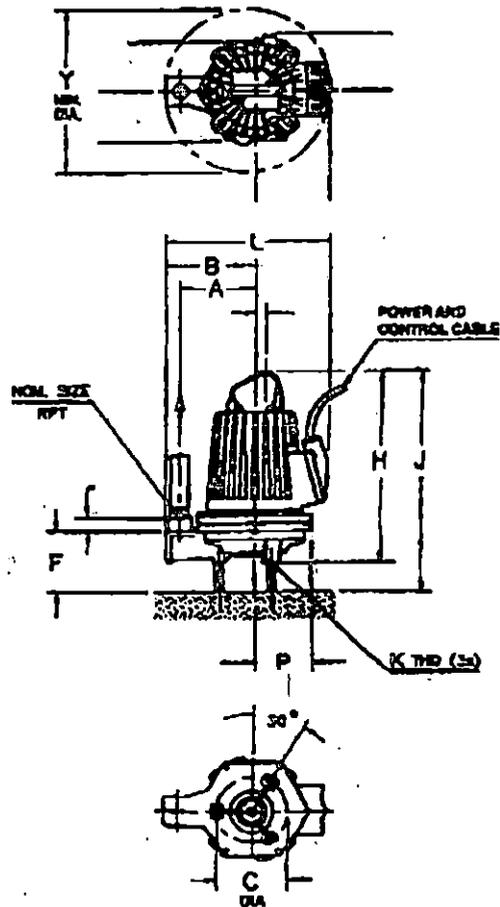
1½" and 2" Grinder Pumps

DIMENSIONS

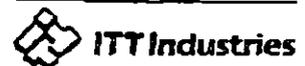
		Nom. Size	Dimensional Chart									
			A	B	C	F	H	J	K	L	P	Y
1GA	3 HP	1-1/2	7	8-3/4	7-15/16	7-1/4	17-3/4	21	M16	14-1/4	5-1/2	14-1/2
1GA	5 HP	1-1/2	7-1/2	9	7-15/16	7	20-1/2	23-3/4	M16	16-1/2	5-1/2	17-1/2
2GA	5 HP	2	7-1/2	9	7-15/16	7	20-1/2	23-3/4	M16	16-1/2	5-1/2	17-1/2
2GA	7.5 HP	2	8-1/2	10	7-15/16	7-1/4	22	25-1/2	M16	18-1/2	6-1/2	18-1/2

SPECIFICATIONS

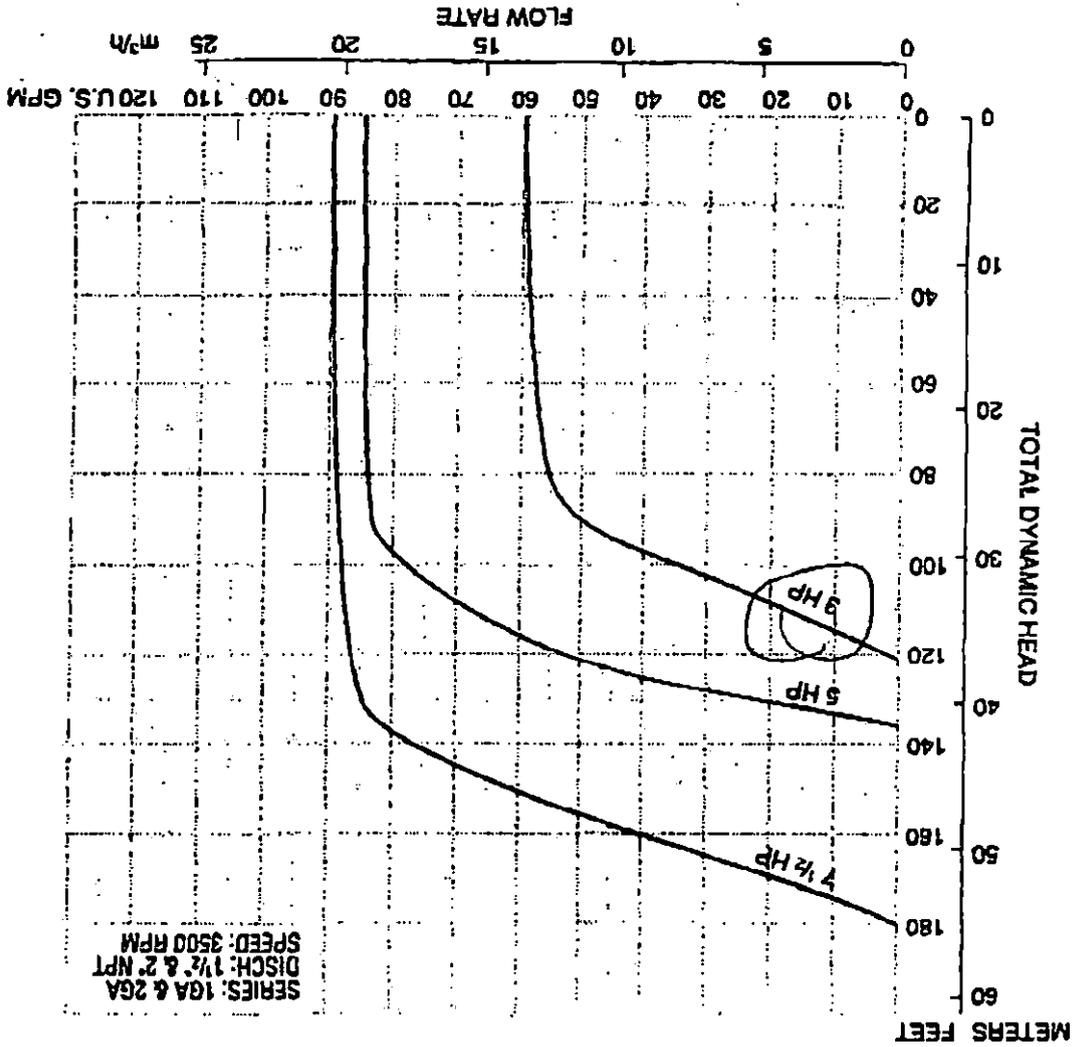
Series	HP	RPM	Phase	Volts	Max. Amps.	Weight (lbs.)
1GA	3	3500	3	200	12.0	113
				230	10.0	
				460	5.0	
				575	4.0	
1GA 2GA	5	3500	3	200	17.0	160
				230	15.0	
				460	7.6	
				575	6.0	
2GA	7½	3500	3	200	30.0	250
				230	26.0	
				460	13.0	
				575	10.0	



Goulds Pumps



Customer _____	Condition of Service _____	Imp. Dia _____	EFF% _____	Certified for _____	By _____	Date _____	Record <input type="checkbox"/>	Approval <input type="checkbox"/>
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Performance Curves
Submersible Sewage Grinder Pumps



SERIES

1GA & 2GA

APPLICATION DATA

Maximum Solid Size	N/A
Minimum Casing Thickness	1/4"
Casing Corrosion Allowance	1/8"
Maximum Working Pressure	80 PSI
Maximum Submergence	85 feet
Minimum Submergence	Top of motor dome
Maximum Environmental Temperature	40°C (104°F) continuous operation

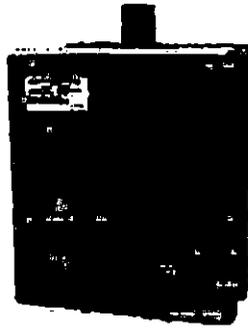
CONSTRUCTION DETAILS

Power Cable - Type	14/7- 3HP, 10/7- 5HP, 8/7- 7.5HP, Type SUBCAB
Motor Housing	Gray Cast Iron - ASTM A48-Class 35B
Bearing Housing	Gray Cast Iron - ASTM A48-Class 35B
Seal Housing	Gray Cast Iron - ASTM A48-Class 35B
Casing	Gray Cast Iron - ASTM A48-Class 35B
Impeller	Gray Cast Iron - ASTM A48-Class 35B
Motor Shaft	AISI 400 Stainless Steel
Motor Design	Air filled, Permanently Lubricated, Class F Insulation
Motor Overload Protection	Pilot duty thermal sensor, built into motor winding
External Hardware	300 Series stainless steel
Impeller Type	Semi-opened with pump out vanes on back shroud
Rotating Cutter	Two blades; chrome alloyed cast iron
Gutter Ring	Hardened 316L Stainless Steel

STANDARD PARTS

Ball Bearing - upper	Single row ball
Ball Bearing - lower	Double row angular contact ball
Mechanical Seals	3 HP - Lower - Ceramic/Ceramic, Upper - Carbon/Ceramic
	5 HP - Lower - Tungsten Carbide/Ceramic, Upper - Carbon/Ceramic
	7.5 HP - Lower - Tungsten Carbide/Tungsten Carbide, Upper - Carbon/Ceramic
O-Ring - bearing housing	BUNA-N
O-Ring - motor housing	BUNA-N
On Winding Thermal Sensors	Normally Closed Temperature Sensors - Design Point - 125°C Open - 70°C Closed





Control Panels

Duplex/Weather Proof Controller with Alternator and Alarm

APPLICATIONS

Superior quality duplex liquid level controller, automatically maintains two pump operation, alternation and high level alarm warning for a variety of sump, effluent, sewage and water transfer applications.

SPECIFICATIONS

- Accepts single or dual power feed.
- 2 hand-off automatic pump switches.
- On-off control circuit switch.
- 2 oversized magnetic contactors.
- Numbered terminal strip-screw type.
- NEMA 4X, 30 watt flashing red light.
- NEMA 4X, fiberglass enclosure with gasketed, hinged door and stainless steel hardware.
- NEMA 4X, alarm horn - 95db.
- Electronic pump alternator.
- 115 V, 3 amp control circuit breaker.

Single Phase

- Field adjustable for 115 or 230V, 60 Hz.
- 2 pump circuit breakers.

Maximum Pump Running Amps	Pump Circuit Breakers	Panel Order No.
20	25	D10020
27 (3 HP)	30	D10027
38 (5 HP)	40	D10038

Three Phase

- Field adjustable for 208/230/460/575V, 60 Hz.
- 115V control circuit transformer.
- 2 adjustable motor overload protectors.
- Heaters not required.

Maximum Pump Running Amps	Panel Order No.
1.8 to 2.5	D31025
2.5 to 4.0	D32540
4.0 to 6.3	D34063
6.3 to 10	D36310
10 to 16	D31016
16 to 20	D31020
20 to 25	D32025

FEATURES

- Rugged NEMA 4X construction withstands even the most severe weather conditions and prevents corrosion.
- Provides fully automatic operation for two pumps. Alternates pump starting to distribute operating time. Provides extra pumping capacity in times of high inflow by energizing both pumps.
- Hinged door with lockable stainless steel latch for safe operation indoors or out.
- High level alarm circuit includes through door mounted silence switch for manual silence of alarm horn.
- Through door mounted alarm test switch insures proper operation of the alarm circuit without the need to open the panel.
- 2 through door mounted pump run light.
- Top mounted high intensity flashing red light provides 360° visibility.

- Pulsating, corrosion proof alarm horn.
- These duplex controls are factory wired for operation with three float bulbs. An easy field modification for four float bulb operation using separate "lag-on" and "alarm bulbs" is provided.
- Solid state pump alternator circuit displays float status for ease of installation and trouble shooting.
- Panel can be wired for a single power feed for pumps and control circuit or the control circuit can be wired to a separate power supply to insure alarm integrity in case of a tripped pump breaker.
- Auxiliary alarm contacts provided for remote alarm connection.
- Entire unit is UL and CUL listed.
- Color coded wiring, screw type terminals and plug in sockets, ensure ease of field servicing.
- Field wiring diagram, panel schematic and installation instructions included.

