SEWAGE DISPOSAL SYSTEM APPLICATION / PERMIT

STATE OF DELAWARE
DEPARTMENT OF NATURAL RESOURCES
AND ENVIRONMENTAL CONTROL

Owner's Name: United Parcel Service Phone: 215-595-7009

Address: Scott Plaza II 2nd Floor Rt. 291, Philadelphia, PA 19113

Project Location: Existing UPS Facility, West Side of U.S. 13, ~2400' North of C.R. 35 near Harrington, DE. Tax Map #: MN I 71.00-01-15.00

Designer: D. Swenson, P.E. License #: C517

Designer's Address: Tetra Tech Richardson, 910 S. Chapel St., Newark, DE 19713-3470

Phone: 302-738-7551

I hereby affirm that the information provided on this document is accurate and complete.

Dale R. Swenson — *Designer's Signature* 6/14/88 — *Date*

■ - No Water Course Within 500′ ☐ - Water Course ______ Ft. From Tile Field	■ - No Central Sewer Available ☐ - Central Water Supplied	Average Percolation Rate: 20 min./inch Gallon Per Day Flow: 600 Minimum Square Ft. Required: 1127 Square Ft. Proposed: 1134

- DRAW CROSS-SECTION BELOW -

Reference C-7

RECEIVED
JUL 11 1988
ON-SITE WASTEWATER BRANCH

D.N.R.E.C.
APPROVED
PERMIT # C 4019-88K
SEE PERMIT CONDITIONS

*revision to Section 2.025 Engineer Specs page 9 of 20 JEA 11/25/88
*revision to elevation of Seepage bed in E.S.M. Page 20 of 20 JEA 11/25/88

CONSTRUCTION PLAN

Scale: 1" = ________ ft.	
Indicate North:	

Reference C-7

RECEIVED
WASTEWATER BRANCH
ON-SITE
JUL 11 1988

D.N.R.E.C.
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SEE PERMIT CONDITIONS

Owner's Signature: George A Loppini 4 OUPS Date: 6-14-88

FOR OFFICIAL USE ONLY - DO NOT WRITE BELOW THIS LINE

Pursuant to provision of Title 7, Part VII, Del. Code Annotated, permission is granted to construct, operate and maintain 1500 gal septic tank system/60 inch rad. dosing tank/elevated sand mound sewage disposal syetm for 600 GPD commercial facility as shown above. All current regulations governing septic tank sewage disposal systems must be followed. All conditions attached to this permit must be observed. This permit expires on 11/21/89 for construction, indefinite for operation & maintenance.

11/21/88 — Date

A.J. Farling P.E. — DNREC Signature of Approval

DOCUMENT NO. 40-08/85/04/07

THIS PERMIT WILL BE REVOKED UPON VIOLATION OF ANY OF THE BELOW MARKED CONDITIONS.

1. X THE DIVISION OF WATER RESOURCES SHALL BE NOTIFIED WHEN THE INSTALLATION IS COMPLETE AND PRIOR TO COVERING THE APPLICANT SHALL CALL THE DIVISION OF ENVIRONMENTAL CONTROL WHEN THE INSTALLATION IS READY FOR INSPECTION. REPRESENTATIVES OF THE DIVISION MAY INSPECT SUCH WORK DURING CONSTRUCTION.

2. X Connections or additions to the proposed system other than those proposed on the plans will not be allowed without prior approval from the Division.

3. X Roof downspouts, foundation drains, area drains, storm sewers, combined sewers or appurtenances thereto, or any sewer or device carrying or discharging storm water, surface water, groundwater, or cooling water or oil, or water softener boine shall not be connected to this system.

4. X The owner shall connect to the county or municipal sewer system if and when such services become available. At such time, this permit becomes void unless the Division approves continued operation.

5. X This system shall be maintained in such a manner as to prevent surfacing, pooling and/or discharge of wastewater to any surface waters. If this system produces obnoxious odors which are considered to be a public nuisance, the applicant shall, with the approval of the Division, take necessary steps to eliminate such odors.

6. X This permit does not cover the structural stability of the unit.

7. X The sites of the initial and replacement absorption facilities shall not be covered by asphalt or concrete or subject to vehicular traffic or any activity which would adversely affect the soils. These sites shall be maintained so that they are free from encroachments by accessory buildings and additions to the main building.

8. X Trees and shrubs shall not be planted within 10 feet of the perimeter of the disposal area, but may be planted on fill extensions. All trees and shrubs shall be located to prevent root intrusion into the disposal area and other components of the system.

9. X The bottom of the seepage area (stone) shall be installed no deeper than 24 inches above the ground surface. See cross-section for details.

10. X All minimum isolation distances listed on Exhibit C of the 1985 Regulations Governing the Design, Installation and Operation of On-Site Wastewater Treatment and Disposal Systems shall be adhered to.

11. X This system shall not pollute or otherwise interfere with any groundwater supplies.

12. X The average daily discharge of this system is restricted to 600 gallons.

13. X This facility shall not be constructed in any highway right-of-way.

14. X The septic tank shall be pumped by a licensed liquid waste hauler every 3 years.

PMT.# C 4019-88K

Permit Conditions Continued

15. ____ Applicant shall attempt to complete construction as soon as possible.

16. __X__ Barriers shall be installed to prevent vehicular traffic from crossing the disposal system.

17. ____ The existing septic tank must be uncovered and open for inspection. The tank must be ____ gallons or larger with two compartments and baffles or replaced with same.

18. __X__ A minimum of __18__ inches of porous fill must be used to cover the disposal system and must extend __2:1__ feet beyond the edges of the disposal area in all directions. Porous fill must be on-site during inspection.

19. __X__ The natural ground surface must be scraped and roughed in a 10 foot perimeter around the disposal area PRIOR to installation of the seepage system.

20. __X__ The engineer shall be on site to inspect construction, conduct equipment testing and provide as-built drawings. The engineer must call this office (736-4761) to verify testing & construction before pre-cover inspection.

21. __X__ All electrical connections shall be waterproof and corrosion resistant. Controls for systems larger than 500 gallons per day shall also be explosion proof.

22. __X__ The septic tank, dosing chamber and seepage area shall be installed according to the plans and specifications contained on pages __2__ thru __20__ of the permit.

23. __X__ If wellpointing is required during construction, the wells must be installed by a licensed well driller and a permit to construct such wells must first be obtained from the Water Resources Section.

24. __X__ A minimum area of XXXXXX acre shall remain pervious (SEE RETENTION BASIN PLAN pg 20 of 20) and available for groundwater recharge after total project completion. This net pervious area shall be maintained so that it remains unpaved and free from encroachments by accessory buildings and additions to the main building.

25. ____ *There shall be NO soil disturbance to the LPP site except the minimum required for installation.*

26. ____ *Lateral and manifold lines shall be installed so that all lines drain to the dosing chamber after completion of the pump cycle.*

27. ____ *Lateral end caps shall be removed annually and each lateral back flushed with approximately 50 gallons of clean water. End caps shall then be replaced.*

28. __X__ THE SYSTEM MUST BE INSTALLED BY A LICENSED CLASS E CONTRACTOR.

29. __X__ This permit does not constitute a well permit. The depth of the well and type of well construction will be determined by the Water Supply Branch (302/736-3665). The location of the well must be 100 feet from the on-site system when possible but not less than 50 feet.

Elevated Sand Mound Specifications

(1) Location: All elevated sand mounds shall be located according to the minimum horizontal isolation distances specified in these drawings, except as provided under these specifications. All isolation distances shall be measured from the perimeter of fill material.

(2) Size/capacity, modifications:

(a) All elevated sand mounds shall be sized as shown on the plans. The engineer shall be on site prior to covering the system. Elevation of the Dosing Chamber and pipe sizes shall not be modified. All pipe shall be Schedule 40 P.V.C.

(3) Construction:

(a) Clearing and Grubbing: All small vegetation shall be cut and removed from the mound area at a distance of ten (10') feet beyond the perimeter of the disposal area. Trees and shrubs shall be cut and removed at ground surface. Roots may be left in place. All cut materials shall be removed from the mound area.

(b) Plowing: The mound absorption area shall be plowed 6 to 8 inches deep parallel to the contour. Plowing shall not be done on wet soils. No plowing instruments which compact the soil shall be used. Two bottom plows, moldboard plows, or chisel plows are recommended.

(c) Materials:

(i) Fill Material

Materials of construction shall be medium sand, sandy loam, sand/sandy loam mixture. The fill material shall have the following characteristics:

Sieve Size	Maximum Percentage Passing Sieve
3/8"	100%
No. 4	90-100%
No. 40	20-60%
No. 200	0-15%

(ii) Mound filter aggregate shall be washed gravel or crushed stone ranging in size from 3/4" to 2 1/2" in any dimension.

(iii) Distribution network pipe and fittings shall be pressurized and constructed of the same materials required for pressurized trench systems. All holes shall be sized and spaced as shown on the drawing. Holes shall be free of stone and dirt. Holes shall be placed in a downward position.

(iv) Mound covering or berm soil shall be loam or silt loam.

PMT# C 4019-88 K

(d) Mound Specifications: (See Exhibit "E")

(i) Immediately after plowing, sand fill shall be placed on the upslope edges of the plowed mound absorption area and spread to a minimum depth of 24" throughout the absorption area. Only lightweight equipment such as small track-type tractors shall be allowed.

(ii) A 12 inch bed of coarse filter aggregate shall be placed over the sand fill. Six inches of aggregate shall be placed under the distribution lateral. The remaining filter aggregate shall be placed to an additional six inches over the crown of the distribution pipe.

(iii) A minimum allowable distance of four (4') feet and a maximum distance of six (6') feet shall separate adjacent laterals in an elevated sand mound bed. After the pipe is placed and stone aggregate is placed to a level totalling 12" from bottom of trench to the top of trench. Typar filter fabric will be placed.

(iv) The slope of the sand fill not directly beneath the filter aggregate shall be 2 to 1.

(v) The mound berm shall extend at least 1 1/2 feet above the 12 inch filter aggregate layer with at least six inches of topsoil cover. Cover shall be contoured to allow surface water runoff.

(vi) The outside slopes of the mound cover or berm shall be approximately 2 to 1.

(vii) Grass shall be planted over the entire mound. Shrubs may be planted at the base of the mound.

(4) Testing: All sand mound distribution networks shall be tested to ensure even dosing throughout the network prior to constructing the mound berm, in the presence of the engineer.

SECTION Ø274Ø - S_PTIC SYSTEMS

PART 1 - GENERAL

1.Ø1 RELATED DOCUMENTS

Drawings and general provisions of the contract, including general and supplementary conditions and Division 1 specification sections, apply to work of this section.

1.Ø2 DESCRIPTION OF WORK

A. Extent of septic system work is indicated on drawings, and by requirements of this section.

B. Refer to Division 2 Section "Earthwork" for excavation and backfill required for septic systems; not work of this section.

C. Refer to Division 2 Section "Sanitary Sewage Systems" for piping between building and septic tank; not work of this section.

D. Furnish and install new duplex submersible sewage pumps, an exterior sewage holding pit, control panel, inlet and discharge piping including all control wiring between the panel and pumps, and all associated controls devices for a complete and operating system.

1.Ø3 QUALITY ASSURANCE

A. Manufacturer's Qualifications: Firms regularly engaged in manufacture of septic systems's products of types, materials and sizes required, whose products have been in satisfactory use in similar service for not less than five years.

B. Installer's Qualifications: firm with at least three years of successful installation experience on projects with septic systems work similar to that required for project.

C. Codes and Standards:

1. Plumbing Code Compliance: comply with applicable portions of the Local Plumbing Code pertaining to selection and installation of septic system's materials and products.

2. State Code Compliance: Regulations pertaining to septic systems. Comply with State of Delaware

PMT# C4019-88K

DNREC Regulations governing the Design, installation and operation of on-site wastewater treatment and disposal systems.

3. UL and NEMA Compliance: Provide electric motors and electrical components required as part of plumbing equipment, which have been listed and labeled by Underwriters' Laboratories and comply with NEMA Standards.

4. NEC Compliance: Comply with National Electrical Code (ANSI/NFPA-70) as applicable to installation and electrical connections of ancillary electrical components of plumbing equipment.

1.04 SUBMITTALS

A. Product Data: Submit manufacturer's technical product data and installation instructions for septic system's materials, exterior pump lift stations and products.

B. Shop Drawings: Submit shop drawings for septic systems, showing piping materials, size, locations, pump lift station and inserts. Include details of underground structures, connections, and cleanouts. Show interface and spatial relationship between piping and proximate structures.

C. Record Drawings: At project closeout, submit record drawings of installed septic systems, show exact location and inverts of septic tanks, drainage fields, pump lift station and record drawings in maintenance manual; in accordance with requirements of Division 1.

D. Maintenance Data: Submit maintenance data and parts lists for septic system's materials, pumps and controls, and products. Include this data, product data, show drawings, and record drawings in maintenance manual; in accordance with requirements of Division 1.

1.05 PROJECT CONDITIONS

Place barricade around drainage field for duration of construction project too prevent construction vehicles from being driven across field.

PART 2 - PRODUCTS

2.01 IDENTIFICATION

Underground-type Plastic Line Marker: Manufacturer's

PMT# C 4019-88K

standard permanent, bright-colored, continuous-printed plastic tape, intended for direct burial service; not less than 6" wide by 4 mils thick. Provide green tape with black printing reading "CAUTION SEWER LINE BURIED BELOW".

Available Manufacturers" Subject to compliance with requirements, manufacturers offering identification markers which may be incorporated in the work including, but are not limited to, the following:

Manufacturer: Subject to compliance with requirements, provide identification markers of one of the following:

Allen Systems, Inc.
Emed Co., Inc.
Seton Name Plate Corp.

2.02 DRAINAGE FIELD

Provide pipe and fittings for drainage field, site gravity piping, transmission piping, pump discharge piping, complete with elbows, tees, adapters, couplings, collars, and joint materials. Materials shall be as follows:

1. Drainage Field: PVC Pipe ASTM D 2729 perforated.

2. Transmission & Manifold: PVC Pipe ASTM D 1785 Schedule 40.

3. Pump Discharge: PVC Pipe ASTM D 1785 Schedule 40.

4. Site Gravity Drain: Hubless Cast Iron CISPI 301 with two cast iron clamps, neoprene gaskets and stainless steel nuts and bolts.

5. Filter Material: Clean stone, gravel or similar material acceptable to Administrative Authority, varying in size from 3/4" to 2-1/2". Acceptable size range; Comply with DEL. NO. 2 or 3. (Del. Spec. 1985 pg 411)

6. Filter Mat: Untreated building paper, filter fabric(i.e., TYPAR) or similar porous material to prevent closure of voids with earth backfill.

7. Joint Cover: For open-joint drainlines, cover top half of joint with heavy mesh burlap, asphalt saturated felt, 18-14 mesh copper screening, or commercial corrosion-resistant metal bands.

2.03 SEPTIC TANK

A. Provide septic tank of dimensions and capacity as indicated.

B. Construction: Precast reinforced concrete, with bituminous coating extending at least 4" below water line and covering all internal area above that point.

C. Inlet and Outlet Access: Provide minimum 18" diameter access lids centered over inlet and outlet, with lift rings. Lids shall be highway loading weight.

2.03 DUPLEX SUBMERSIBLE PUMP LIFT STATION SYSTEM

A. The station shall consist of two submersible sewage pumps, mercury switch level controls, discharge piping, check valve, sealed discharge flanges, pump mounting plate with bottom rail supports, upper rail supports, lifting chain, cover plate, concrete basin, pump control panel and all other necessary devices. All equipment preassembled and prewired at the manufacturer's facility.

B. Sewage Pumps: Capacity: 42 gpm at 22' TDH, cast iron casing and semi-open type impeller, stainless steel pump motor shaft. Peabody Barnes Model SE411.

C. Pump Motors: 0.4 HP, 208 volts, single phase, 60 Hz., 1750 rpm, non-overleading throughout the entire range of the pump curve. Submersible, opening windings operating in dielectric oil. Two carbon/ceramic mechanical shaft seals with oil chamber between seals. Integral stainless steel motor and pump shaft; thrust bearing ball; radial bearing, bronze sleeve bearing, permanently lubricated. Pump fasteners 18-8 stainless steel.

D. Pump Basin:

1. The pump basin shall be of the size and dimensions indicated on the drawings with a monolithically poured base and riser section as manufactured by Monarch Concrete Products. The unit shall have top, walls, and bottom of 4,000 psi reinforced concrete conforming to ASTM specification C478. All joints shall be sealed with Ram-Nec sealant. The top cover slab shall be concrete with aluminum cover inserted of the size indicated on the drawings. All piping in the pit shall be PVC Schedule 40 pipe. The station shall also be equipped with inlet gaskets, a level control switch mounting bracket, a steel panel mounting

post, and conduit with sealing fittings.

Note: Inlet and discharge openings in the pit walls shall be core bored at the site.

2. Pump guide rails: galvanized steel pipe.
Pump mounting plates and guide rail braces: cast iron.
Guide rail supports: steel, epoxy coated.
Lifting chains: galvanized steel.
Fasteners and headware: stainless steel.

E. Liquid Level Controls:

1. Sealed mercury switch, encased in a polypropylene ball float, attached to pump to control sump liquid level and signal alarm.

2. Sealed float type mercury switches to control sump liquid level and signal alarm.

3. Suspended mercury tube switches sealed in shock-resistant solid polyurethan float.

4. Heavy neoprene jacketed, weighted cords suspended from NEMA 4 junction box. Level setting adjustable from top of basin.

5. Four switches required: One for lead pump start, one for lag pump start, one for low-level pump stop, and one for high-level alarm.

F. Operation of Liquid Level Controls:

1. On a rise of sump liquid level, the pump stop switch energizes first. As sump level increases, the lead pump switch starts the lead pump. With lead pump running, sump liquid level decreases to the low-level pump stop setting.

2. When lead pump stops, an alternating relay indexes so that the lag pump will start on the next rise in sump liquid level.

3. If the sump liquid level continues to rise while lead pump is running, the override switch starts the lag pump. Both lead and lag pumps operate together until low-level switch stops both pumps.

4. If the level continues to rise with both pumps in operation, alarm switch energizes the alarm signal.

5. Should one pump fail for any reason, the remaining pump operates on override control, and, if liquid level rises above override control, the alarm is signalled.

G. Control Panel: NEMA 4 enclosure, exterior-top of pit-mounted enclosure with mounting and support brackets. The control panel shall be of the solid-state type with encapsulated plug-in circuit board. Circuit breaker and magnetic starter with overload protection for each pump with reset buttons. Interlock relay to automatically reconnect control circuit in case of tripped breaker on one pump. Control circuit and alarm transformers; terminal strips for controls, pumps, and alarms. Relay to alternate pumps on each successive cycle of operation. H-O-A switches and run lights for each pump.

H. Visual and Audible Alarm: Flashing light under alarm conditions with test switch shall be mounted on pump panel and shall be automatically reset.

PART 3 - EXECUTION

3.01 INSPECTION

Examine areas and conditions under which septic system's materials and products are to be installed. Do not proceed with work until unsatisfactory conditions have been corrected in manner acceptable to Installer.

3.02 INSTALLATION OF IDENTIFICATION

A. During back-filling/top-soiling of septic system's piping, install continuous underground-type plastic line marker located directly over buried line at 6" to 8" below finished grade.

B. For drainage fields, only perimeter of drainage field need be marked.

3.03 DRAINAGE FIELD

A. Filtering Material: Place supporting layer of filtering material over compacted trench base to compacted depth as indicated or, if not indicated, to compacted depth not less than 6" below bottom of pipe.

B. Grading: Run distribution piping at minimum grade of 1/8" per foot (1 percent) and maximum grade of 1/4"per foot (2 percent). Run drainage piping 1/32" per foot

PMT# C 4019-88K

(1/4 percent) and maximum grade of 1/16" per foot (1/2 percent).

C. Drainage Piping: Lay drainage piping solidly bedded in filtering material. Provide full bearing for each pipe section throughout its length, to true grades and alignment, and continuous slope in direction of flow.

1. Lay perforated pipe with perforations down and joints tightly closed in accordance with pipe manufacturer's recommendations. Provide collars and couplings as required.

2. Lay open-joint pipe spaced as indicated or,if not indicated, with no more than 1/2" space between ends. Cover top 2/3 of joint opening with joint screening material and tie with corrosion resistant wire. Commercial joint cover assemblies may be provided.

D. Testing Drainage Lines: Test and check lines before backfilling to assure free flow. Remove obstructions, replace damaged components, and retest system until satisfactory.

E. Filter Mat: Prior to backfilling, place filter mat over filter material.

F. Backfilling: Immediately backfill trench with excavated soil, mounding but not compacting soil above original grade. Do not permit construction equipment on backfilled trenches.

3.Ø4 INSTALLATION OF SEPTIC TANK

A. Install as indicated and in accordance with manufacturer's installation instructions.

B. Tests: Fill septic tank with water and let stand overnight. If water level recedes, locate and repair leaks, and retest.

C. Seeding: Seed septic tank with sewage sludge, fill tank with clear water.

3.Ø5 INSTALLATION OF DUPLEX SEWAGE PUMPS

A. Install submersible duplex lift pumps system in accordance with manufacturer's installation instructions and in compliance with applicable codes.

B. Anchor baseplate to floor slab. Set and level pumps for proper alignment.

C. Provide discharge piping, accessories, hangers, supports, and anchors, valves, as indicated and required for a complete and operating installation.

1. Check alignment and, where necessary,align rail guide and pumps within recommended tolerances by manufacturer, and in presence of manufacturer's service representative.

2. Lubricate pumps before start-up. Start-up in accordance with manufacturer's instructions.

3. Insure that pump units are wired properly, with rotation in correct direction and that pump and motor grounds have been provided.

D. Float Control: Install side wall-mounted bracket on wall of pit. Float elevation and operating levels shall be set as noted on the detail. Sequence of operation shall be as follows:

Bulb "A" Both Pumps "OFF"
Bulb "B" Pump No. 1 "ON"
Bulb "C" Pump No. 2 "ON"
Bulb "D" High Water Alarm

E. Electrical: All power wiring included final connections to the control panel shall be by the Electrical Contractor. Wiring beyond that point shall be considered control wiring and shall be the responsibility of Pump Installation Contractor. The Installation Contractor shall strictly coordinate and wire the system for a complete and operating system.

F. Control Panel: Mount control panel on the top concrete cover of the pump pit. Make ready for final wiring connections by the Electrical Contractor.

G. Start-Up: The equipment supplier shall provide the services of an authorized Factory Representative to assure that the entire installation is in accordance with their requirements prior to the start of the system. A test of the system is to be witnessed by the representative that all systems function properly.

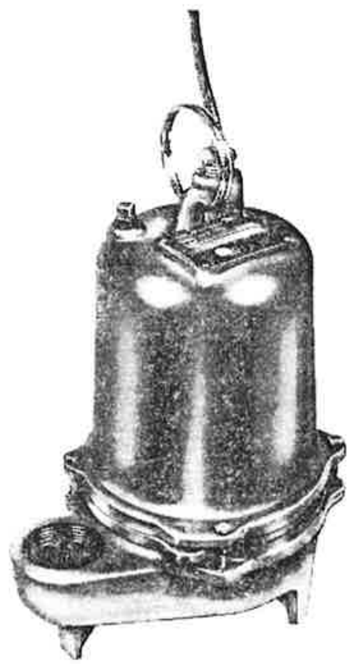
H. Warranty: The pump manufacturer shall warrant all equipment supplied fora period of one year from date of acceptance by the engineer or eighteen months from the date of manufacture, whichever date occurs first. Further, the pump manufacturer will supply to the Owner a new replacement pump upon receipt of the defective unit, regardless of the cause of failure, at a discount spelled out in the manufacturer's published warranty.

I. Available Manufacturers: Subject to compliance with requirements, manufacturers offering duplex sewage pump stations which may be incorporated in the work include but are not limited to the following:

Peabody-Barnes
Federal
Peerless

Heavy Duty Submersible Sewage and Effluent Pump

SECTION	9
PAGE	11
ISSUED	9/85
SUPERSEDES	3/82



Models

SE411

SE421

Size

2″

Handles

1-1/2″ Solids

Peabody Barnes

Pump Specifications

Size: 2″ Discharge, 1¾″ Suction Opening
Impeller: 2 Vanes, Molded Material with Pressure Vanes on back side
Seal: Mechanical Type with Ceramic and Carbon Faces
Pump Body: Cast Iron
Motor Housing: Cast Iron
Hardware: Corrosion Resistant Stainless Steel
Power Cord: 15′ of 14/3 SJTO
Suitable For: 150° Liquids
Standard Equipment: Equipped with Legs for 1½″ setting above bottom of Sump Basin

Motor Specifications

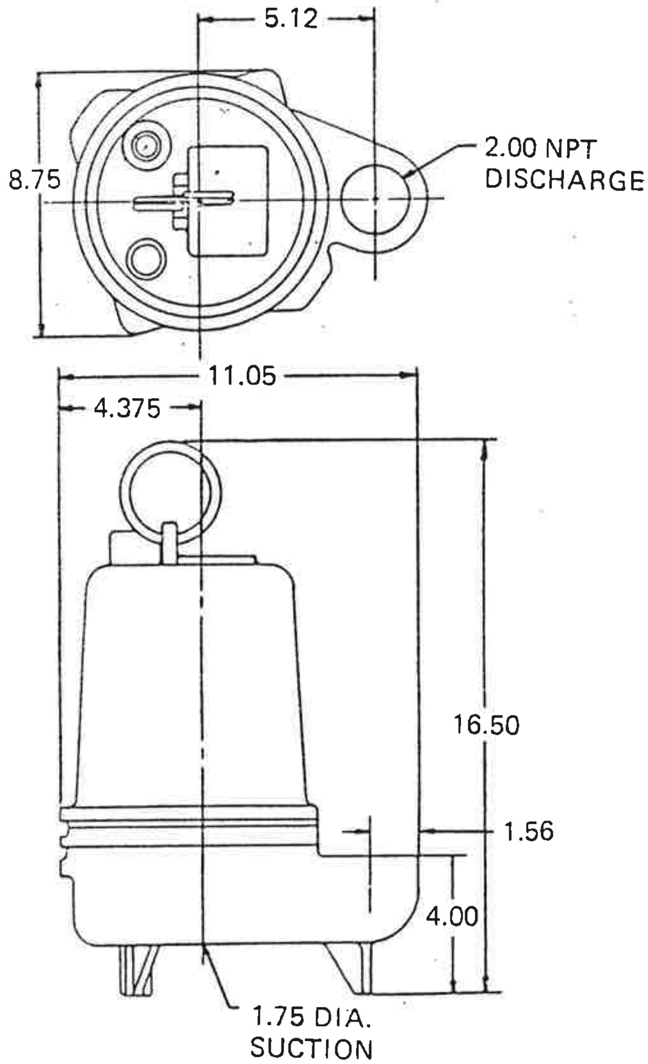
Model SE411 - 4/10 HP, 115 Volt, Single Phase
Model SE421 - 4/10 HP, 230 Volt, Single Phase
Single Phase: PSC (Permanent Split Capacitor) Completely Oil-Filled and Overload Protection In Motor
Motor Speed: 1700 R.P.M.
Shaft: 1/2" Diameter 416 Stainless Steel
Thrust Bearing: Ball
Radial Bearing: Sleeve - Permanent Lubrication

SECTION	9
PAGE	12
ISSUED	9/85
SUPERSEDES	3/82

AMPERAGE		
Model No.	Max. Run Amps	Locked Rotor Amps
SE411	9.0	15.5
SE421	4.5	7.8

Models

SE411
SE421



C-4019-88K

Peabody Barnes
651 North Main Street, Mansfield, Ohio 44902
Phone 419/522-1511

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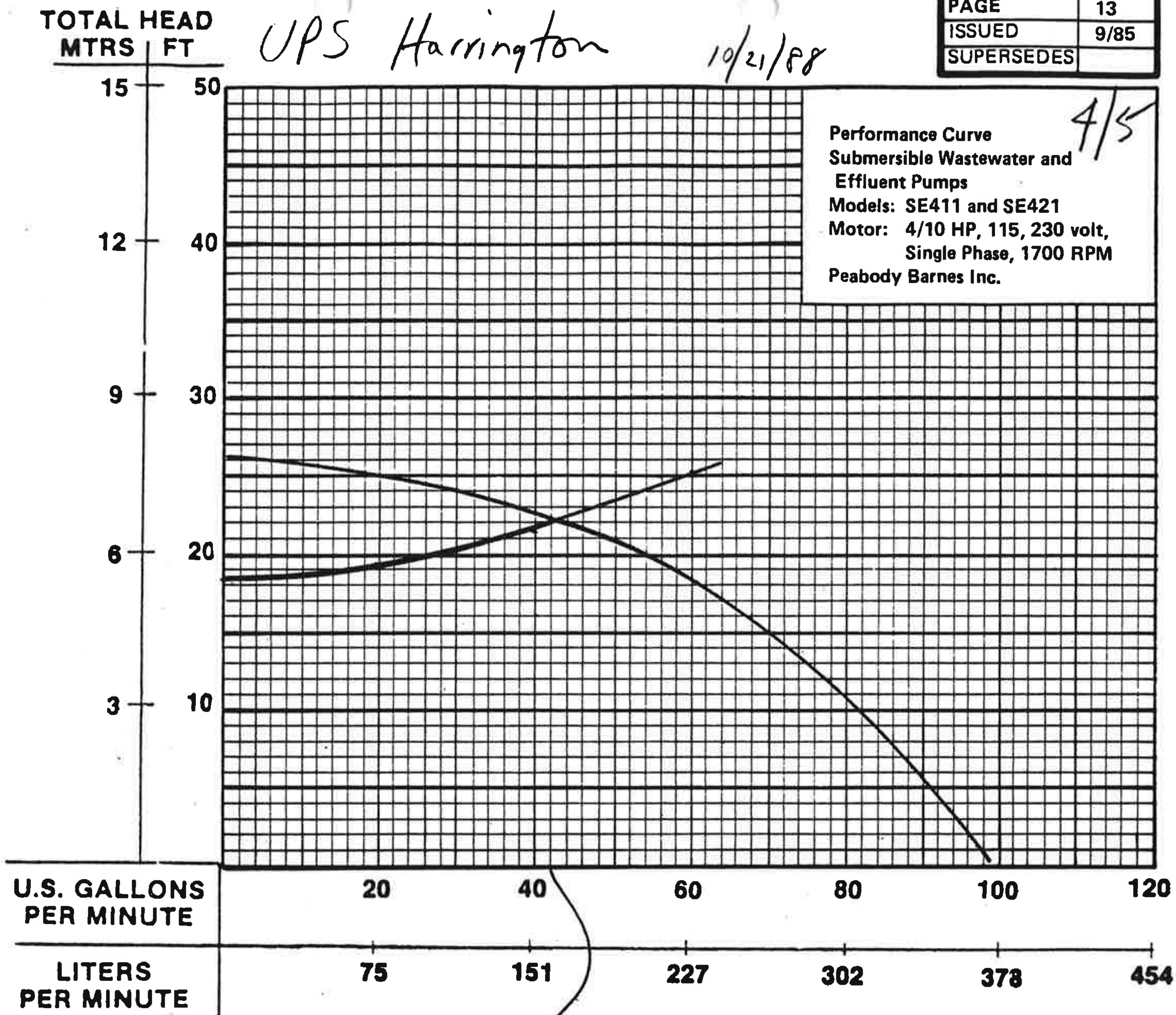
SECTION	9
PAGE	13
ISSUED	9/85
SUPERSEDES	

UPS Harrington 10/21/88



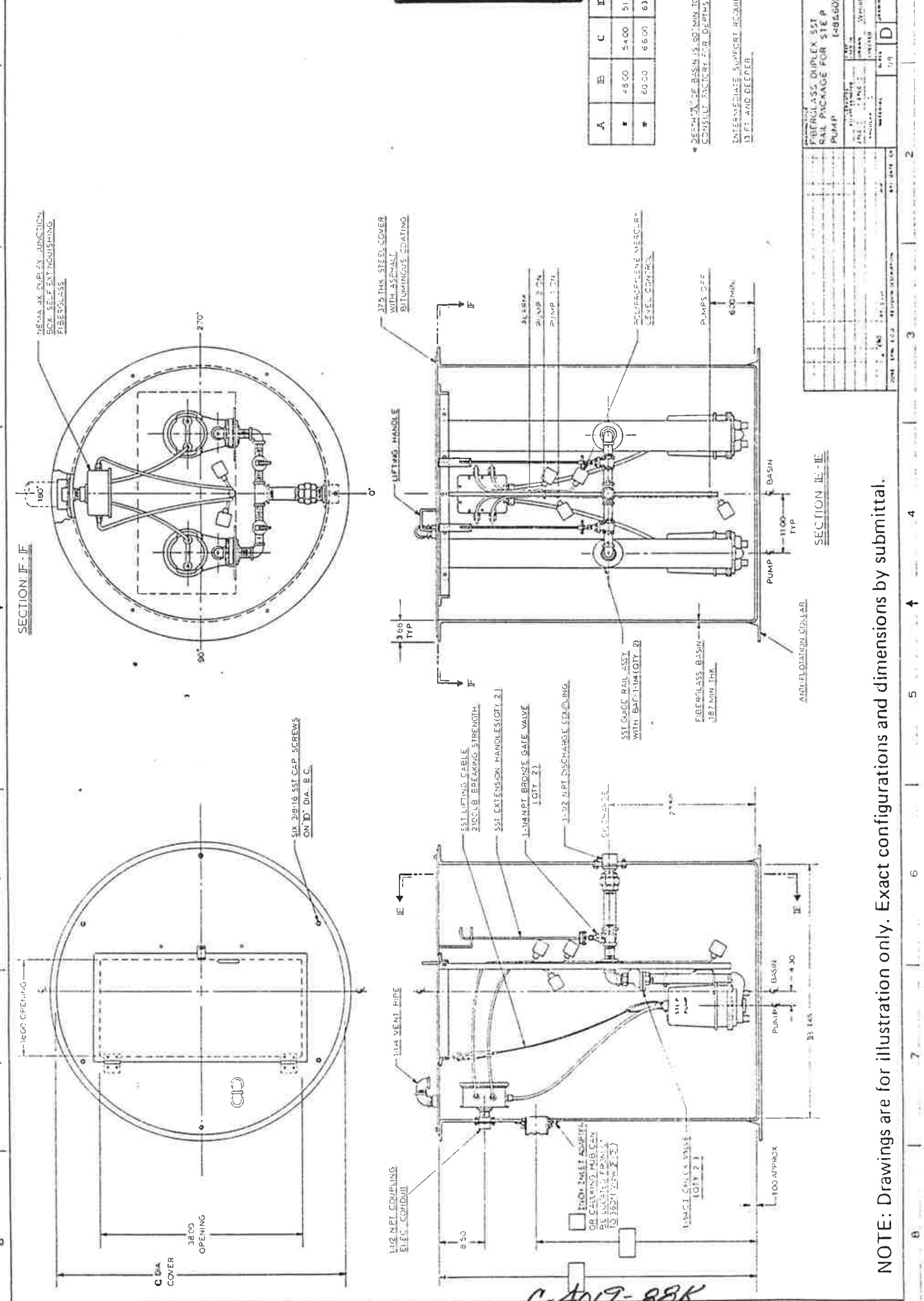
42 gpm @ 22 ft TDH

Peabody Barnes

651 North Main Street, Mansfield, Ohio 44902
Phone: 419/522-1511

C 4019-88K

SECTION	9A
PAGE	15
ISSUED	9/85
SUPERSEDES	



C-4019-88K