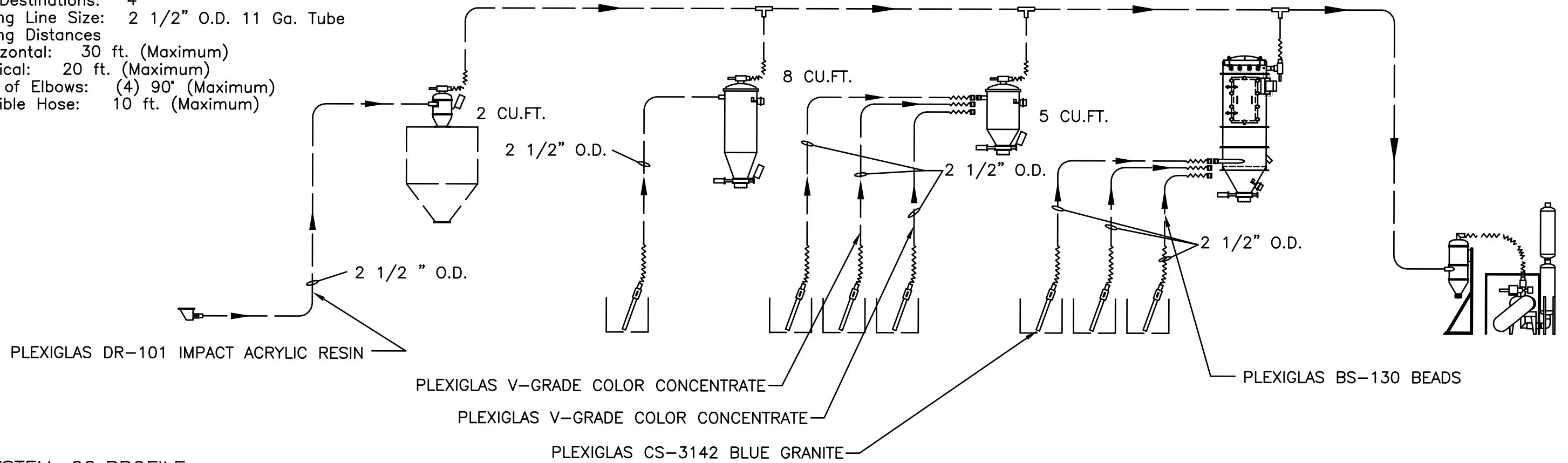


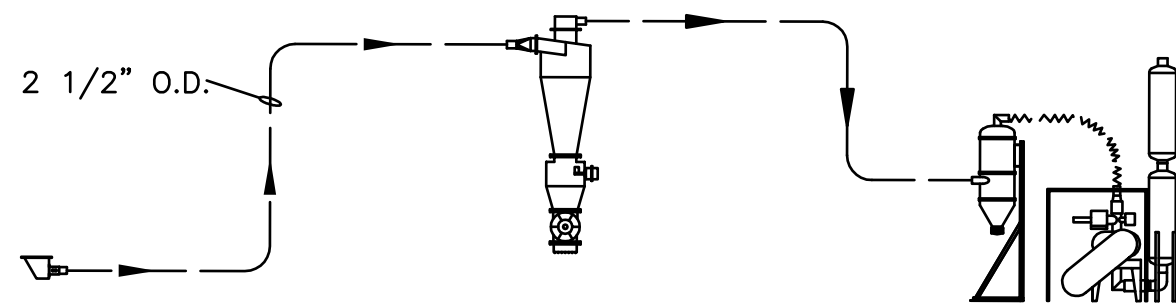
SYSTEM 01 PROFILE

System Type: Series 2400 Vacuum Sequencing
 Material: Acrylic Resin, Rework, Colorant, Plastic Beads/Granite
 Bulk Density: 44 lbs./cu. ft., 44 lbs./cu. ft., 48-74 lbs./cu. ft., 33-44 lbs./cu. ft.
 Conveying Rate: 3500 lbs./hr.
 No. of Sources: 4
 No. of Destinations: 4
 Conveying Line Size: 2 1/2" O.D. 11 Ga. Tube
 Conveying Distances
 Horizontal: 30 ft. (Maximum)
 Vertical: 20 ft. (Maximum)
 No. of Elbows: (4) 90° (Maximum)
 Flexible Hose: 10 ft. (Maximum)



SYSTEM 02 PROFILE

System Type: Continuous Vacuum
 Material: Resin
 Bulk Density: 44 lbs./cu. ft.
 Conveying Rate: 3000 lbs./hr.
 No. of Sources: 1
 No. of Destinations: 1
 Conveying Line Size: 2 1/2" O.D. 11 Ga. Tube
 Conveying Distances
 Horizontal: 20 ft. (Maximum)
 Vertical: 20 ft. (Maximum)
 No. of Elbows: (3) 90° (Maximum)
 Flexible Hose: 0 ft. (Maximum)



Plastics Industry

Equipment was purchased through an OEM and installed at end user for producing plastic pellets. Raw material is conveyed from silos and Gaylord boxes. The receivers discharge in loss-in-weight screw feeders. The feeders discharge into an extruder. The extruder discharges into a cooling bed of water. The strand is then cut into pellets. The pellets are conveyed to a cyclone and fed by an Aerolock into a Gaylord box.



SYSTEM NO. 02 (RESIN)

System Type:	Series 2400 Vacuum Sequencing	4 in. O.D. tube	4 in. O.D. tube
Material:	Resin Pellets or Resin Pellets or Re grind		
Bulk Density:	32 lbs./cu.ft. 32 lbs./cu.ft. 32 lbs./cu.ft.		
Conveying Rate:	8,000 lbs./hr. 8,000 lbs./hr. 8,000 lbs./hr.		
No. of Sources:	Silo	Gaylord	Gaylord
No. of Destinations:			
Conveying Line Size:			
Conveying Distances:			
Horizontal:	240 ft.	50 ft.	50 ft.
Vertical:	25 ft.	25 ft.	25 ft.
No. of Elbows:	4-90°	3-90°	3-90°
Flexible Hoses:	15 ft.	10 ft.	10 ft.

SYSTEM NO. 01 (ADDITIVES)

System Type:	Series 2400 Vacuum Sequencing	3 in. O.D. tube
Material:	Additive Powders	
Bulk Density:	30-40 lbs./cu.ft.	
Conveying Rate:	1,000 lbs./hr.	
No. of Sources:	Scale Hopper or Gaylord	
No. of Destinations:		
Conveying Line Size:		
Conveying Distances:		
Horizontal:	80 ft.	
Vertical:	25 ft.	
No. of Elbows:	3-90°	
Flexible Hoses:	10 ft.	

SYSTEM NO. 03 (COLOR)

System Type:	Series 2400 Vacuum Sequencing	2 in. O.D. tube
Material:	Pellets	
Bulk Density:	32-48 lbs./cu.ft.	
Conveying Rate:	600 lbs./hr.	
No. of Sources:	4 gaylords and 1 dust collector	
No. of Destinations:	5	
Conveying Line Size:		
Conveying Distances:		
Horizontal:	80 ft.	
Vertical:	25 ft.	
No. of Elbows:	3-90°	
Flexible Hoses:	10 ft.	

SYSTEM NO. 04 (FILLER)

System Type:	Vacuum Transfer	
Material:	Talc/Filler or Magnesium Hydroxide	
Bulk Density:	25-48 lbs./cu.ft. 25-48 lbs./cu.ft.	
Conveying Rate:	8,000 lbs./hr. 8,000 lbs./hr.	
Conveying Line Size:	4 in. O.D. tube expanding to 4 in. sch.10 pipe	
Source:	Bulk Bag Unloader	
Conveying Distances:		
Horizontal:	200 ft.	
Vertical:	25 ft.	
No. of Elbows:	6-90°	
Flexible Hoses:	0 ft.	

SYSTEM NO. 05 (INPLANT TRANSFER)

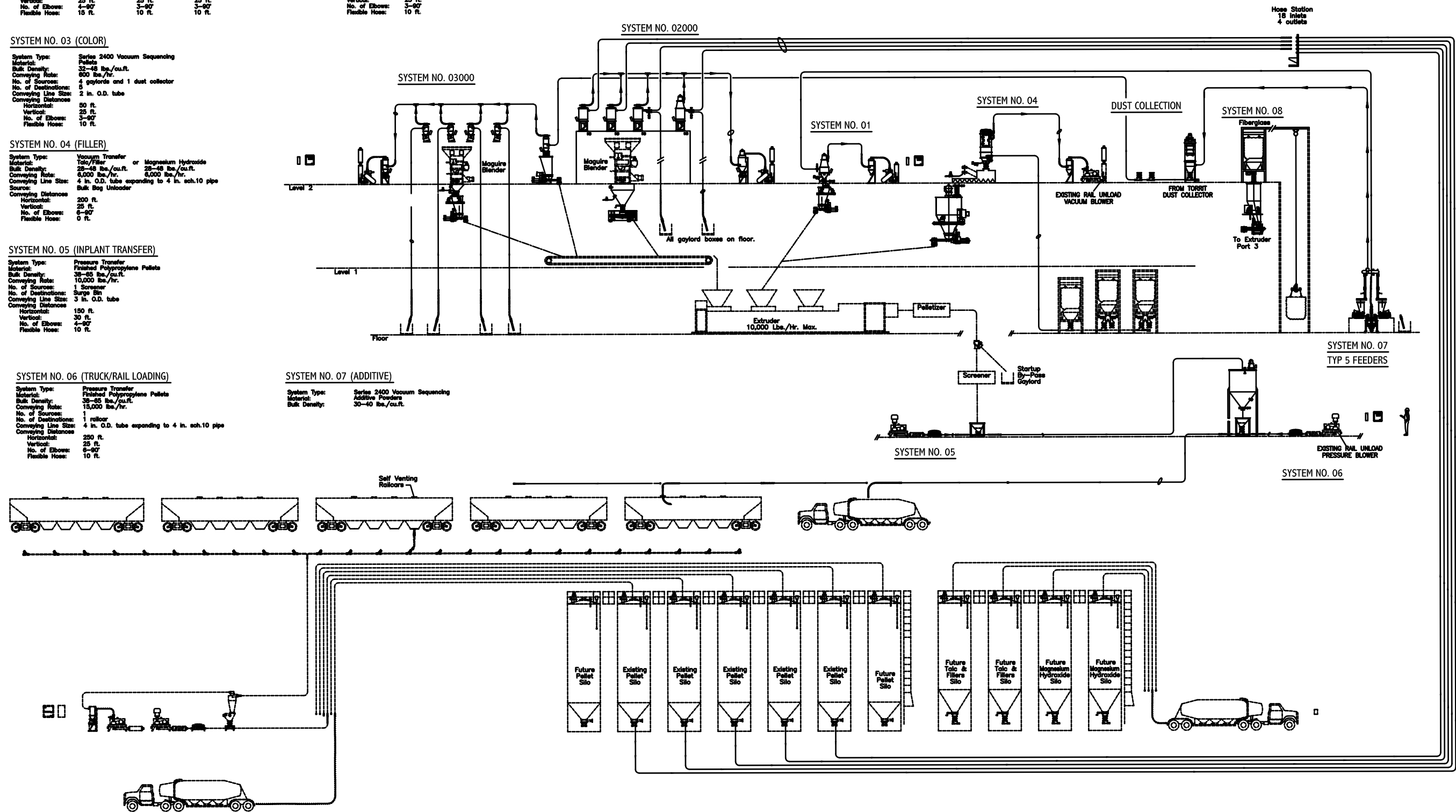
System Type:	Pressure Transfer	
Material:	Finished Polypropylene Pellets	
Bulk Density:	38-55 lbs./cu.ft.	
Conveying Rate:	10,000 lbs./hr.	
No. of Sources:	1 Screener	
No. of Destinations:	Surge Bin	
Conveying Line Size:	3 in. O.D. tube	
Conveying Distances:		
Horizontal:	150 ft.	
Vertical:	30 ft.	
No. of Elbows:	4-90°	
Flexible Hoses:	10 ft.	

SYSTEM NO. 06 (TRUCK/RAIL LOADING)

System Type:	Pressure Transfer	
Material:	Finished Polypropylene Pellets	
Bulk Density:	38-55 lbs./cu.ft.	
Conveying Rate:	15,000 lbs./hr.	
No. of Sources:	1	
No. of Destinations:	1 railcar	
Conveying Line Size:	4 in. O.D. tube expanding to 4 in. sch.10 pipe	
Conveying Distances:		
Horizontal:	250 ft.	
Vertical:	25 ft.	
No. of Elbows:	6-90°	
Flexible Hoses:	10 ft.	

SYSTEM NO. 07 (ADDITIVE)

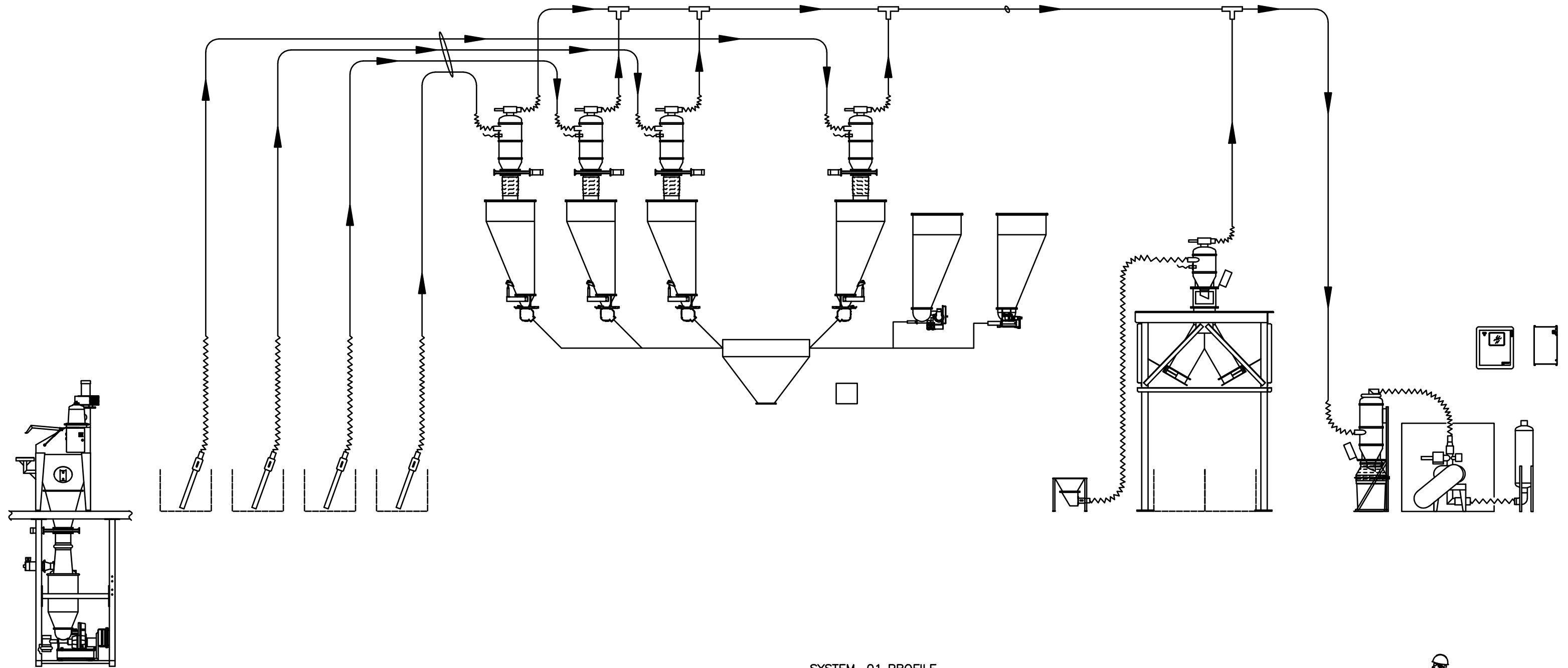
System Type:	Series 2400 Vacuum Sequencing	
Material:	Additive Powders	
Bulk Density:	30-40 lbs./cu.ft.	



Plastics Industry

Pneumatic conveying and feeding system discharging into an extrusion process.





SYSTEM_01 PROFILE

System Type: 2400 FEEDER REFILL VACUUM SEQUENCING
 Material: BASE POLYMER AND PELLETS
 Bulk Density: 15 TO 75 LBS./CU. FT.
 Desired Conveying Rate: 1300 LBS./HR.
 No. of Sources: 5
 No. of Destinations: 5
 Conveying Line Size: 2" O.D.
 Conveying Distances: MAXIMUM
 Horizontal: 75 FT.
 Vertical: 20 FT.
 No. of Elbows: (2) 90 DEG.
 Flexible Hose: 5 FT.



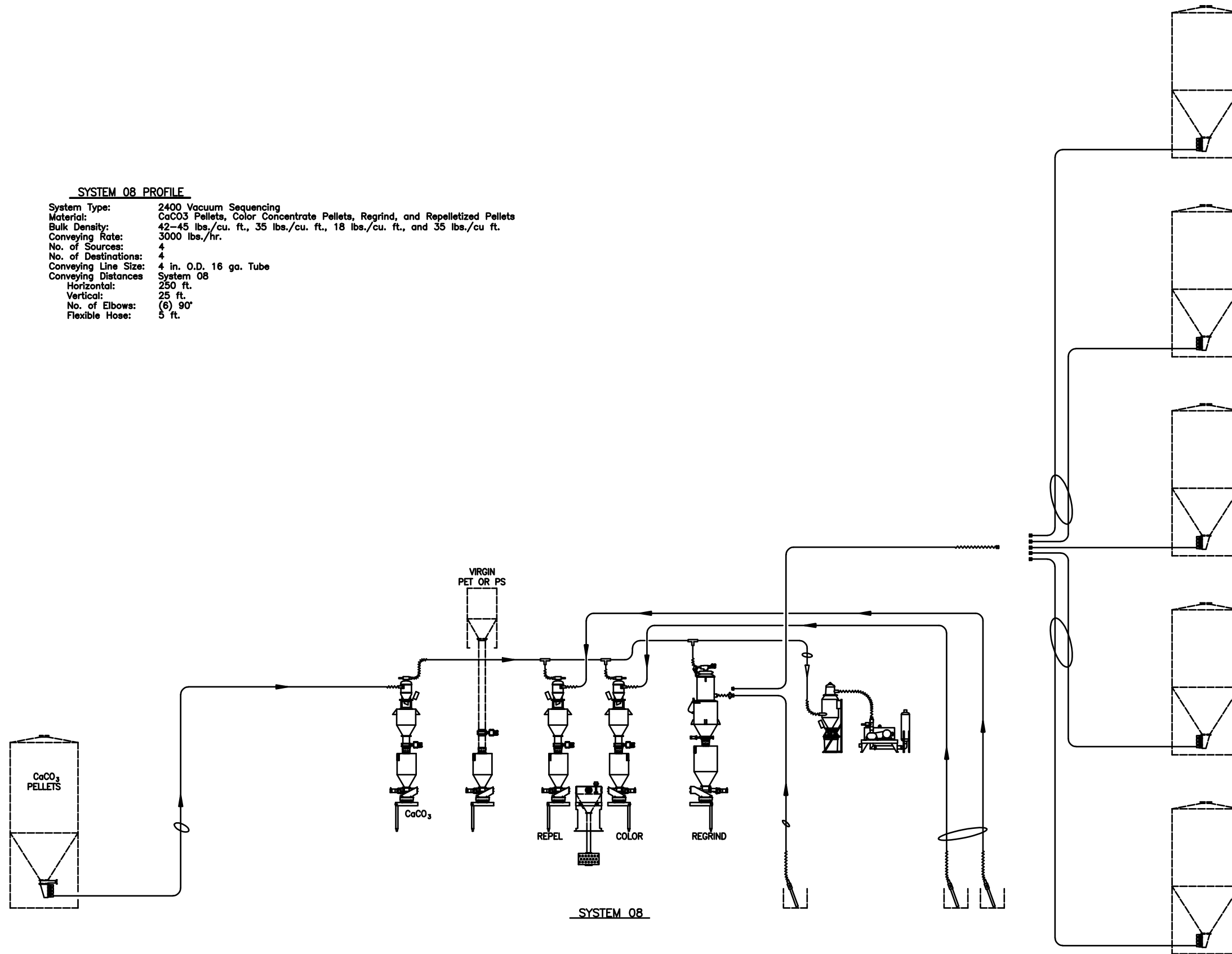
Plastics Industry

This system was provided through an OEM for a pilot extrusion line for a manufacturer of TPO roofing sheet. A 2400 vacuum sequencing system was supplied to convey various pellets for refill of LIW Feeders. K-Tron LIW feeders (K4G six feeder arrangements) were supplied for continuous feed of pellets and powder to the extruder. A twin screw T35 feeder along with bag dump station for refill was supplied to feed various powders into the extrusion process.



SYSTEM 08 PROFILE

System Type: 2400 Vacuum Sequencing
 Material: CaCO₃ Pellets, Color Concentrate Pellets, Regrind, and Repelletized Pellets
 Bulk Density: 42-45 lbs./cu. ft., 35 lbs./cu. ft., 18 lbs./cu. ft., and 35 lbs./cu. ft.
 Conveying Rate: 3000 lbs./hr.
 No. of Sources: 4
 No. of Destinations: 4
 Conveying Line Size: 4 in. O.D. 16 ga. Tube
 Conveying Distances: System 08
 Horizontal: 250 ft.
 Vertical: 25 ft.
 No. of Elbows: (6) 90°
 Flexible Hose: 5 ft.



Plastics Industry

A polystyrene cup manufacture needed a conveying and blending system that could handle their difficult regrind material. We designed and provided a 4 in. vacuum sequencing system to convey virgin styrene pellets, regrind, and color concentrate from silos, day bins, or boxes. The regrind receivers were designed with large hoppers and discharge gates to prevent material bridging. The ProRate Gravimetric Feeder was provided to feed five ingredients with the ability to feed up to 100% regrind to the extruder.

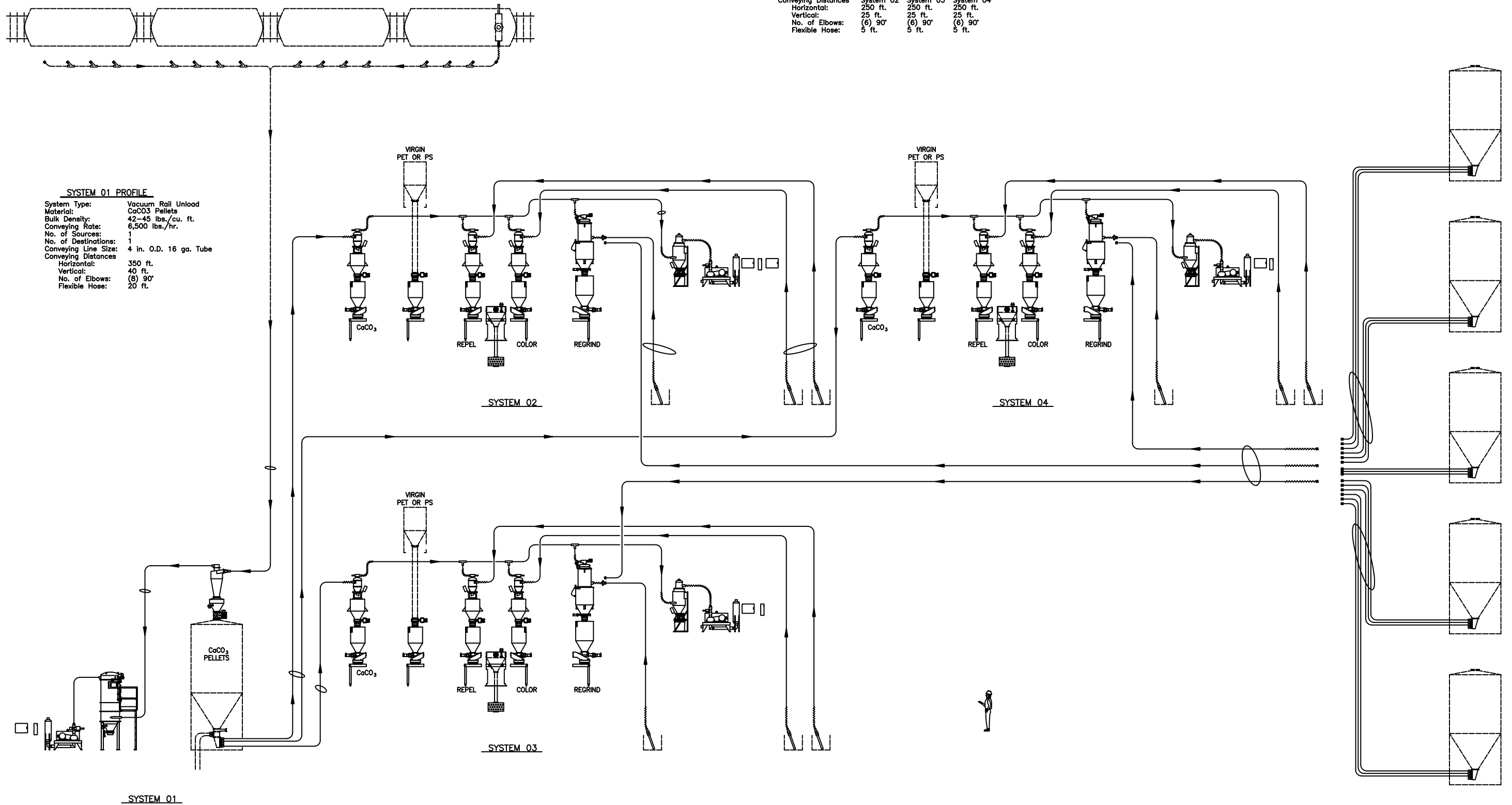


SYSTEM 02, 03, and 04 PROFILE

System Type:	2400 Vacuum Sequencing		
Material:	CaCO ₃ Pellets, Color Concentrate Pellets, Regrind, and Repelletized Pellets		
Bulk Density:	42-45 lbs./cu. ft., 35 lbs./cu. ft., 18 lbs./cu. ft., and 35 lbs./cu. ft.		
Conveying Rate:	2500 lbs./hr.		
No. of Sources:	4 per system		
No. of Destinations:	4 per system		
Conveying Line Size:	4 in. O.D. 16 ga. Tube		
Conveying Distances:	System 02	System 03	System 04
Horizontal:	250 ft.	250 ft.	250 ft.
Vertical:	25 ft.	25 ft.	25 ft.
No. of Elbows:	(6) 90°	(6) 90°	(6) 90°
Flexible Hose:	5 ft.	5 ft.	5 ft.

SYSTEM 01 PROFILE

System Type:	Vacuum Rail Unload
Material:	CaCO ₃ Pellets
Bulk Density:	42-45 lbs./cu. ft.
Conveying Rate:	6,500 lbs./hr.
No. of Sources:	1
No. of Destinations:	1
Conveying Line Size:	4 in. O.D. 16 ga. Tube
Conveying Distances:	
Horizontal:	350 ft.
Vertical:	40 ft.
No. of Elbows:	(8) 90°
Flexible Hose:	20 ft.



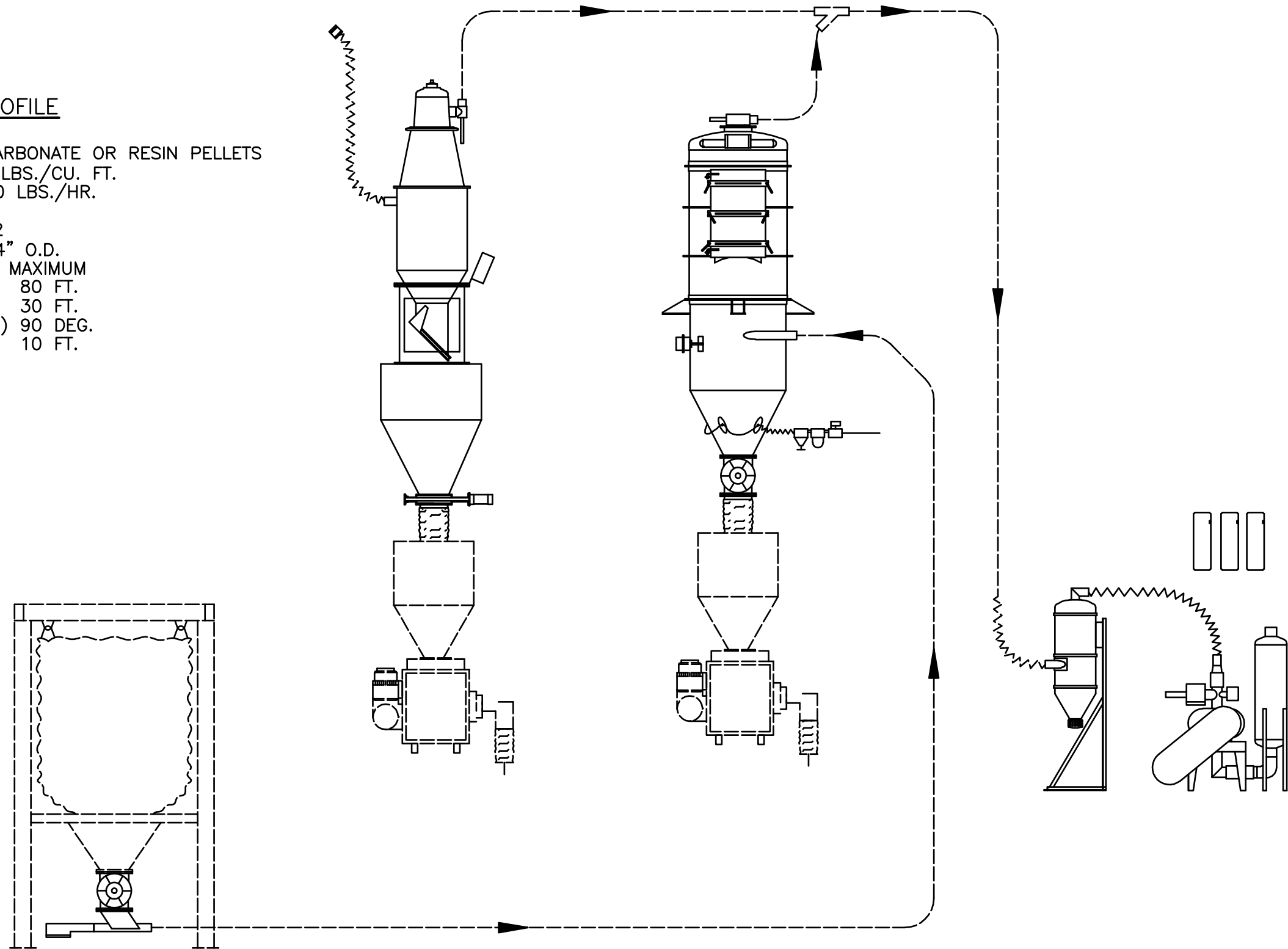
Plastics Industry

A polystyrene cup manufacture needed a conveying and blending system that could handle their difficult regrind material. We designed and provided a 4 in. vacuum sequencing system to convey virgin styrene pellets, regrind, and color concentrate from silos, day bins, or boxes. The regrind receivers were designed with large hoppers and discharge gates to prevent material bridging. The ProRate™ Gravimetric Feeder was provided to feed five ingredients with the ability to feed up to 100% regrind to the extruder. This project also included a vacuum rail unload system to convey calcium carbonate filled pellets from railcars to a storage silo.



SYSTEM 01 PROFILE

System Type: VACUUM
Material: CALCIUM CARBONATE OR RESIN PELLETS
Bulk Density: 32-44 LBS./CU. FT.
Conveying Rate: 8,000 LBS./HR.
No. of Sources: 2
No. of Destinations: 2
Conveying Line Size: 4" O.D.
Conveying Distances
Horizontal: MAXIMUM
Vertical: 80 FT.
Vertical: 30 FT.
No. of Elbows: (4) 90 DEG.
Flexible Hose: 10 FT.

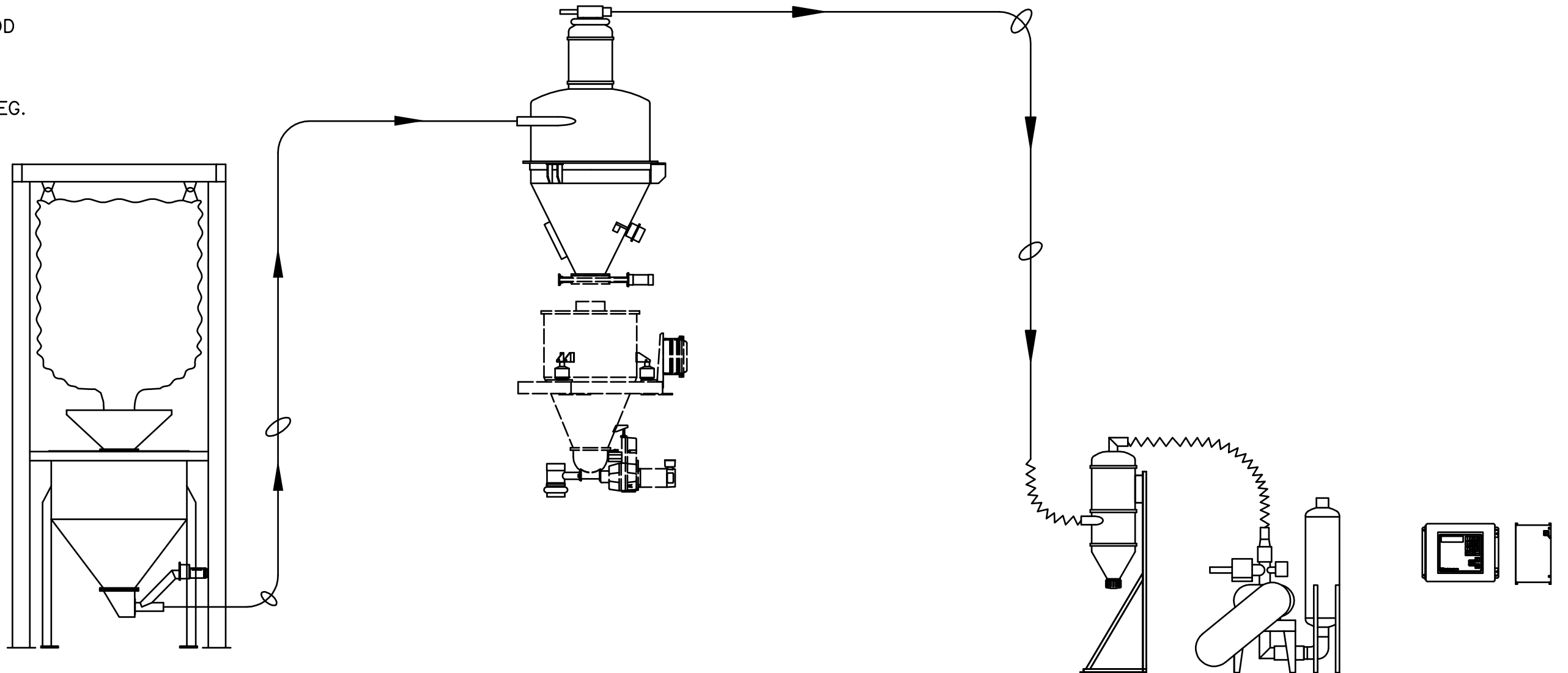


Plastics Industry

This project was supplied to a plastic compounder. The vacuum system was designed to convey calcium carbonate, talc or diatomaceous earth from bulk bags to loss-in-weight feeders above the extrusion process. The second receiver on the system was used to convey plastic pellets and flake material.

SYSTEM 01 PROFILE

System Type: VACUUM SEQUENCING
Material: CARBON BLACK N650
Bulk Density: 23 LBS./CU. FT.
Conveying Rate: 1200 LBS./HR.
No. of Sources: 1
No. of Destinations: 1
Conveying Line Size: 3 IN. OD
Conveying Distances
Horizontal: 20 FT.
Vertical: 25 FT.
No. of Elbows: (2) 90 DEG.
Flexible Hose: 5 FT.



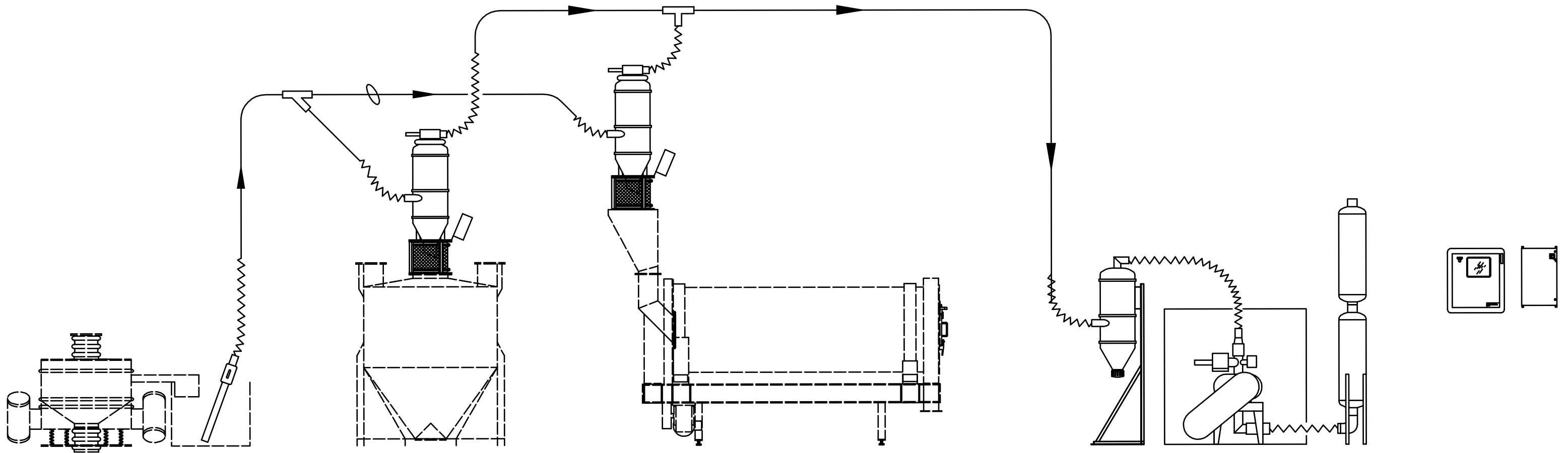
Plastics Industry

This project replaced an existing aeromechanical drag conveyor. The drag conveyor transferred carbon black pellets from bulk bags to a refill hopper above an existing K-Tron LIW feeder. Our system used a modified vacuum receiver and refill hopper to refill the hopper from the bulk bag frame. The system included a new bulk bag unloader and surge hopper.



SYSTEM 01 PROFILE

System Type: 2400 VACUUM SEQUENCING
 Material: COMPOUNDED COLOR CONCENTRATE
 Bulk Density: 60-90 LBS./CU. FT.
 Conveying Rate: 5000 LBS./HR.
 No. of Sources: 1
 No. of Destinations: 2
 Conveying Line Size: 3" OD
 Conveying Distances: MAXIMUM
 Horizontal: 40 FT.
 Vertical: 20 FT.
 No. of Elbows: (2) 90 DEG.
 Flexible Hose: 10 FT.



Plastics Industry

This project was supplied to a color concentrate compounder. The system was designed to convey materials from a size classifier to one of two destinations. The material could be conveyed to a portable surge hopper or to a secondary mixer.

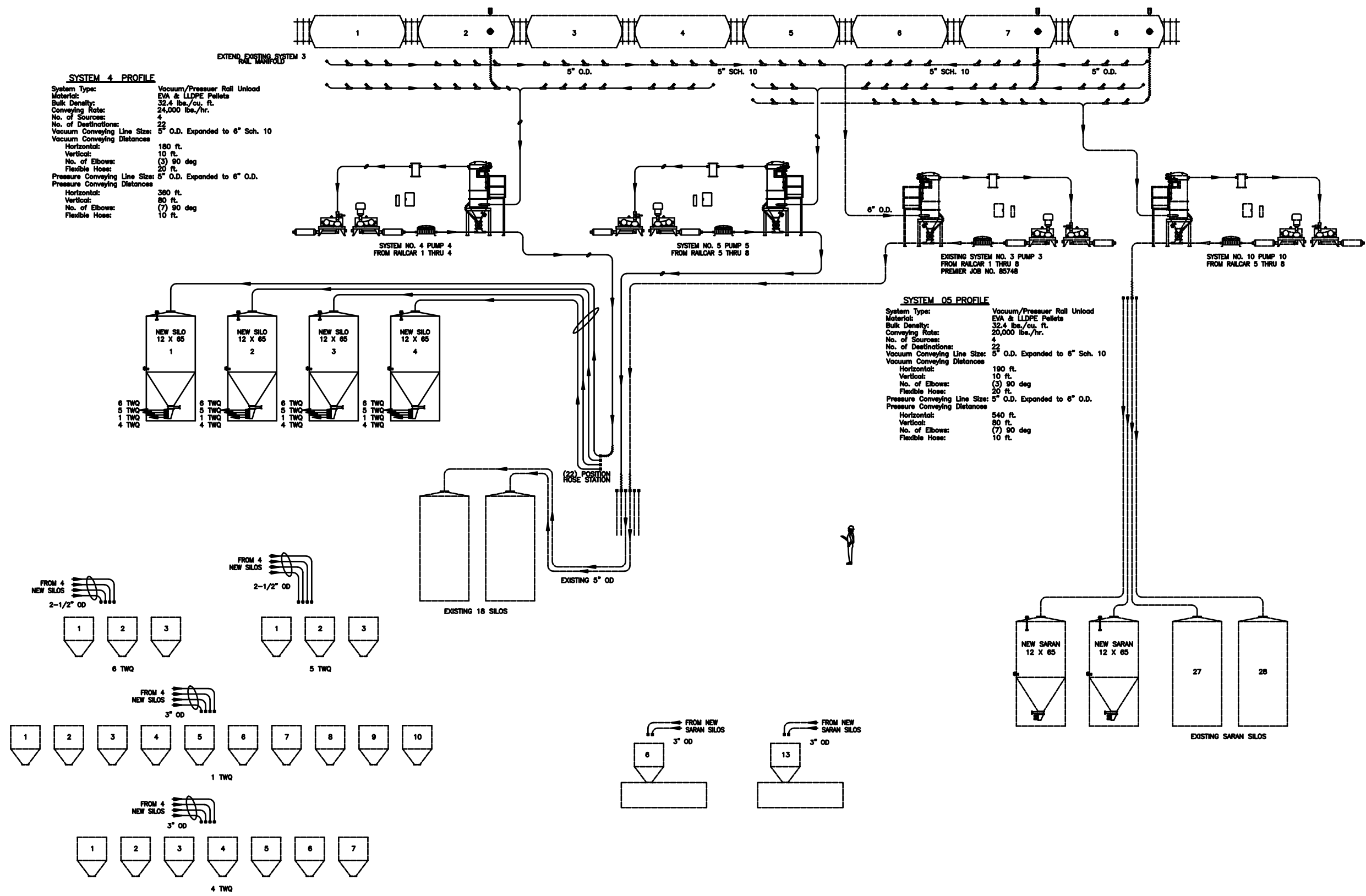


SYSTEM 4 PROFILE

System Type: Vacuum/Pressur Roll Unload
 Material: EVA & LLDPE Pellets
 Bulk Density: 32.4 lbs./cu. ft.
 Conveying Rate: 24,000 lbs./hr.
 No. of Sources: 4
 No. of Destinations: 22
 Vacuum Conveying Line Size: 5" O.D. Expanded to 6" Sch. 10
 Vacuum Conveying Distances
 Horizontal: 180 ft.
 Vertical: 10 ft.
 No. of Elbows: (3) 90 deg
 Flexible Hoses: 20 ft.
 Pressure Conveying Line Size: 5" O.D. Expanded to 6" O.D.
 Pressure Conveying Distances
 Horizontal: 360 ft.
 Vertical: 80 ft.
 No. of Elbows: (7) 90 deg
 Flexible Hoses: 10 ft.

SYSTEM 05 PROFILE

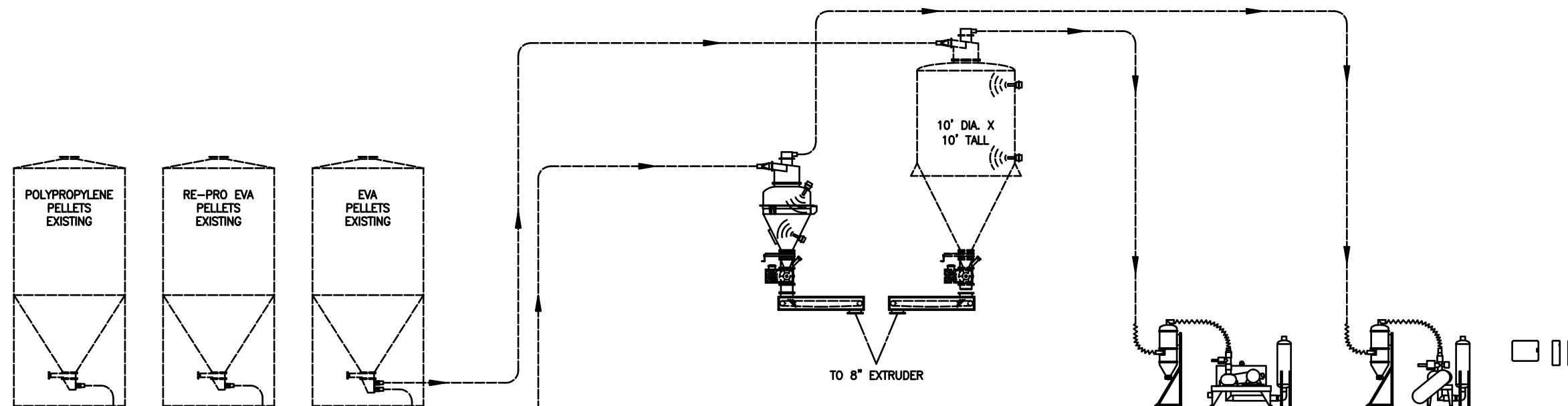
System Type: Vacuum/Pressur Roll Unload
 Material: EVA & LLDPE Pellets
 Bulk Density: 32.4 lbs./cu. ft.
 Conveying Rate: 20,000 lbs./hr.
 No. of Sources: 4
 No. of Destinations: 22
 Vacuum Conveying Line Size: 5" O.D. Expanded to 6" Sch. 10
 Vacuum Conveying Distances
 Horizontal: 190 ft.
 Vertical: 10 ft.
 No. of Elbows: (3) 90 deg
 Flexible Hoses: 23 ft.
 Pressure Conveying Line Size: 5" O.D. Expanded to 6" O.D.
 Pressure Conveying Distances
 Horizontal: 540 ft.
 Vertical: 80 ft.
 No. of Elbows: (7) 90 deg
 Flexible Hoses: 10 ft.



Plastics Industry

This project was supplied to a plastics packaging wrap producer. The project involves multiple vacuum pressure railcar unloading systems for EVA, LLDPE pellets. Special design considerations for angel hair reduction were used, such as after coolers, treated lines and stepped lines to control conveying velocities. In addition four new aluminum 12' x 65" welded tanks with accessories were provided.





SYSTEM 01 PROFILE

System Type: Vacuum
 Material: EVA Pellets
 Bulk Density: 54 lbs./cu. ft.
 Conveying Rate: 12,000 lbs./hr.
 No. of Sources: 1
 No. of Destinations: 1
 Conveying Line Size: 5 in. O.D.
 Conveying Distances
 Horizontal: 340 ft.
 Vertical: 20 ft.
 No. of Elbows: (4) 90°
 Flexible Hose: 0 ft.

SYSTEM 02 PROFILE

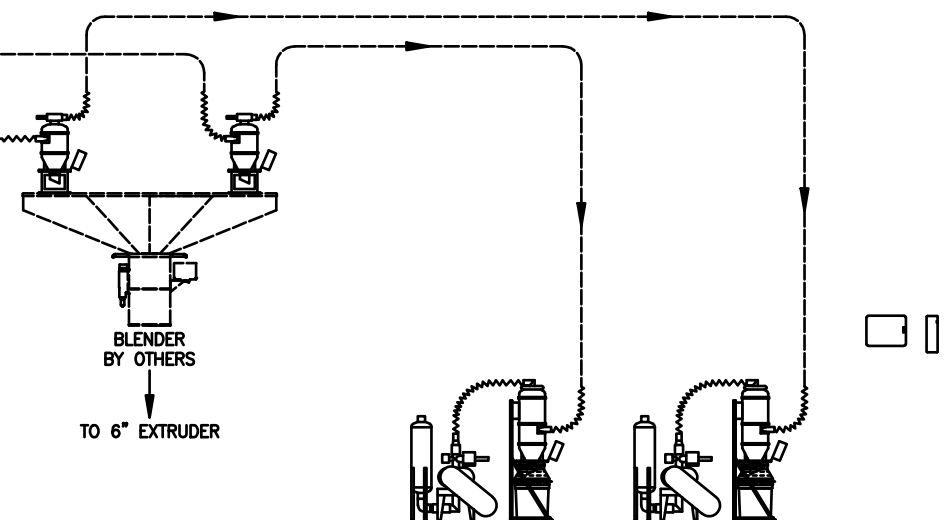
System Type: Vacuum
 Material: Re-Pro EVA Pellets
 Bulk Density: 54 lbs./cu. ft.
 Conveying Rate: 3,000 lbs./hr.
 No. of Sources: 1
 No. of Destinations: 1
 Conveying Line Size: 3 in. O.D.
 Conveying Distances
 Horizontal: 340 ft.
 Vertical: 20 ft.
 No. of Elbows: (4) 90°
 Flexible Hose: 0 ft.

SYSTEM 03 PROFILE

System Type: Vacuum Sequencing
 Material: EVA Pellets
 Bulk Density: 54 lbs./cu. ft.
 Conveying Rate: 250 lbs./hr.
 No. of Sources: 1
 No. of Destinations: 1
 Conveying Line Size: 3 in. O.D.
 Conveying Distances
 Horizontal: 390 ft.
 Vertical: 20 ft.
 No. of Elbows: (6) 90°
 Flexible Hose: 0 ft.

SYSTEM 04 PROFILE

System Type: Vacuum Sequencing
 Material: Polypropylene Pellets
 Bulk Density: 35 lbs./cu. ft.
 Conveying Rate: 3,000 lbs./hr.
 No. of Sources: 1
 No. of Destinations: 1
 Conveying Line Size: 3 in. O.D.
 Conveying Distances
 Horizontal: 450 ft.
 Vertical: 20 ft.
 No. of Elbows: (5) 90°
 Flexible Hose: 0 ft.



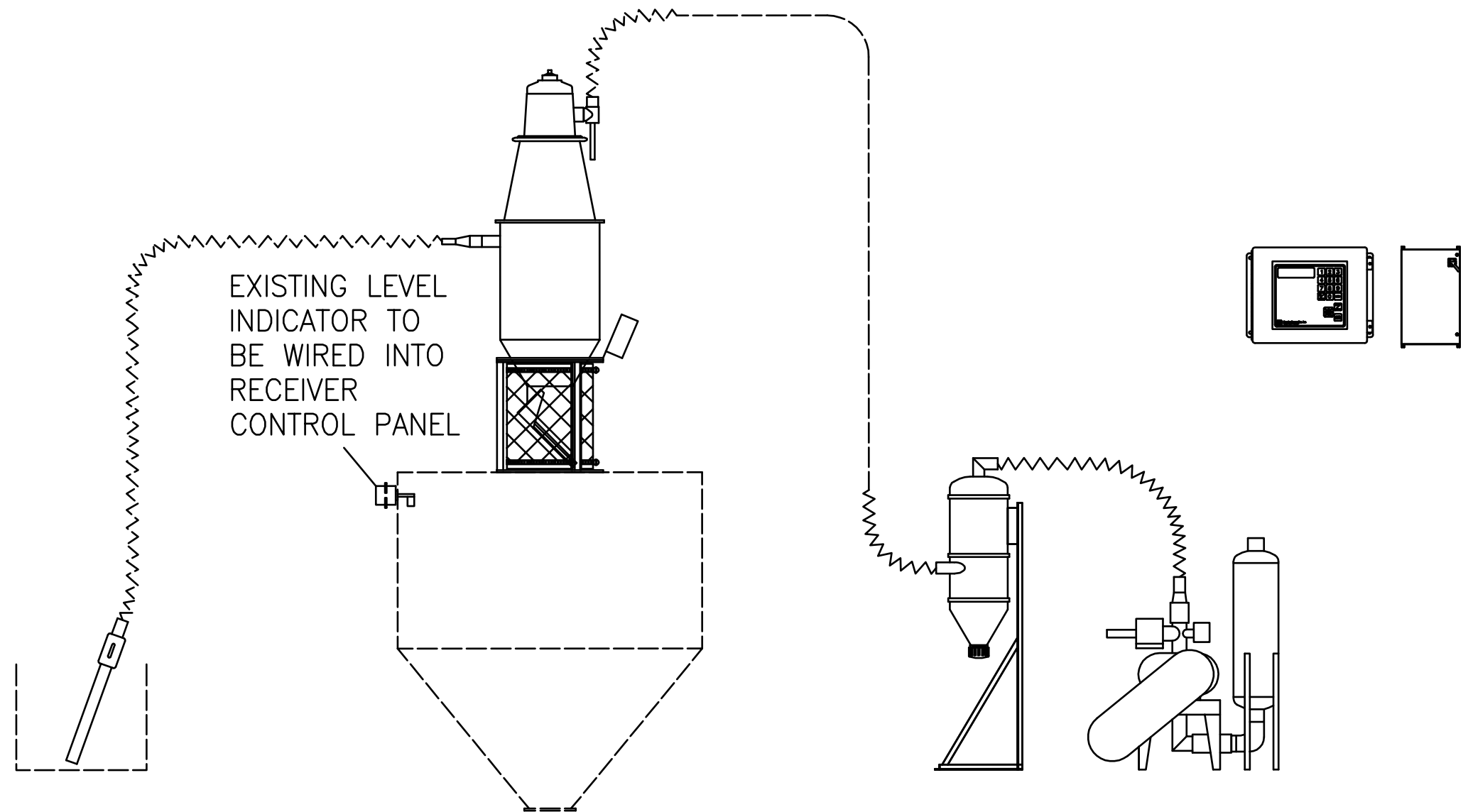
Plastics Industry

This project used previous ordered vacuum sequencing and LIW ProRates to blend virgin and regrind PE. This portion included a Posi-Bin with accessories to store regrind. The system is used to feed an extruder making cup lids. It is rated for 3000 PPH of virgin pellets and regrind.



SYSTEM 1 PROFILE

System Type: 2400 VACUUM SEQUENCING
Material: EX POWDER
Bulk Density: 30 LBS./CU. FT.
Conveying Rate: 3000 LBS./HR.
No. of Sources: 1
No. of Destinations: 1
Conveying Line Size: 3" I.D. HOSE
Conveying Distances
Horizontal: 10 FT.
Vertical: 30 FT.
No. of Elbows: (1) 90 DEG.
Flexible Hose: 40 FT.



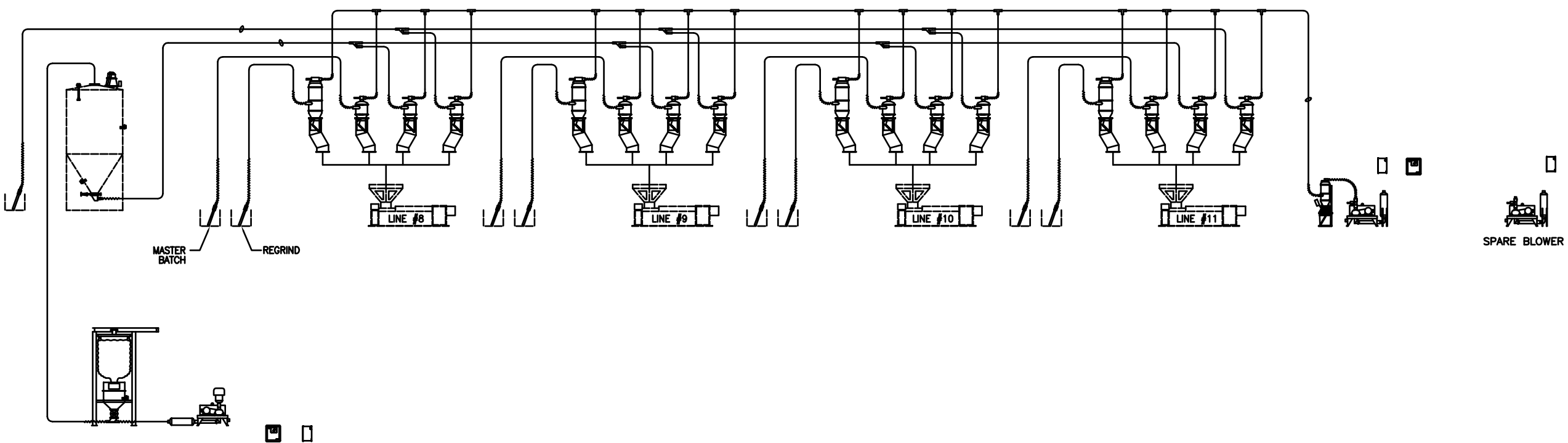
Plastics Industry

This project was supplied to a specialty plastic compounder. We provided a single receiver vacuum conveying system, to convey acrylic powder from Gaylord boxes to a surge hopper above their process.



SYSTEM 2 PROFILE
 System Type: CONTINUOUS PRESSURE
 Material: HIPS, GPP
 Bulk Density: 37-39 LBS./CU. FT.
 Conveying Rate: 7,000 LBS./HR.
 No. of Sources: 1
 No. of Destinations: 1
 Conveying Line Size: 3 IN. O.D.
 Conveying Distances: MAXIMUM
 Horizontal: 150 FT.
 Vertical: 40 FT.
 No. of Elbows: (4) 90 DEG.
 Flexible Hose: 5 FT.

SYSTEM 4 PROFILE
 System Type: 2400 VACUUM SEQUENCING
 Material: GPPS, HIPS, REGRIND OR MASTER BATCH
 Bulk Density: 37-40 LBS./CU. FT.
 Conveying Rate: 3,500 LBS./HR - TOTAL SYSTEM.
 500 LBS./HR - PER LINE.
 No. of Sources: 1 OF 9
 No. of Destinations: 16
 Conveying Line Size: 3 IN. O.D.
 Conveying Distances: MAXIMUM
 Horizontal: 250 FT.
 Vertical: 20 FT.
 No. of Elbows: (5) 90 DEG.
 Flexible Hose: 10 FT.



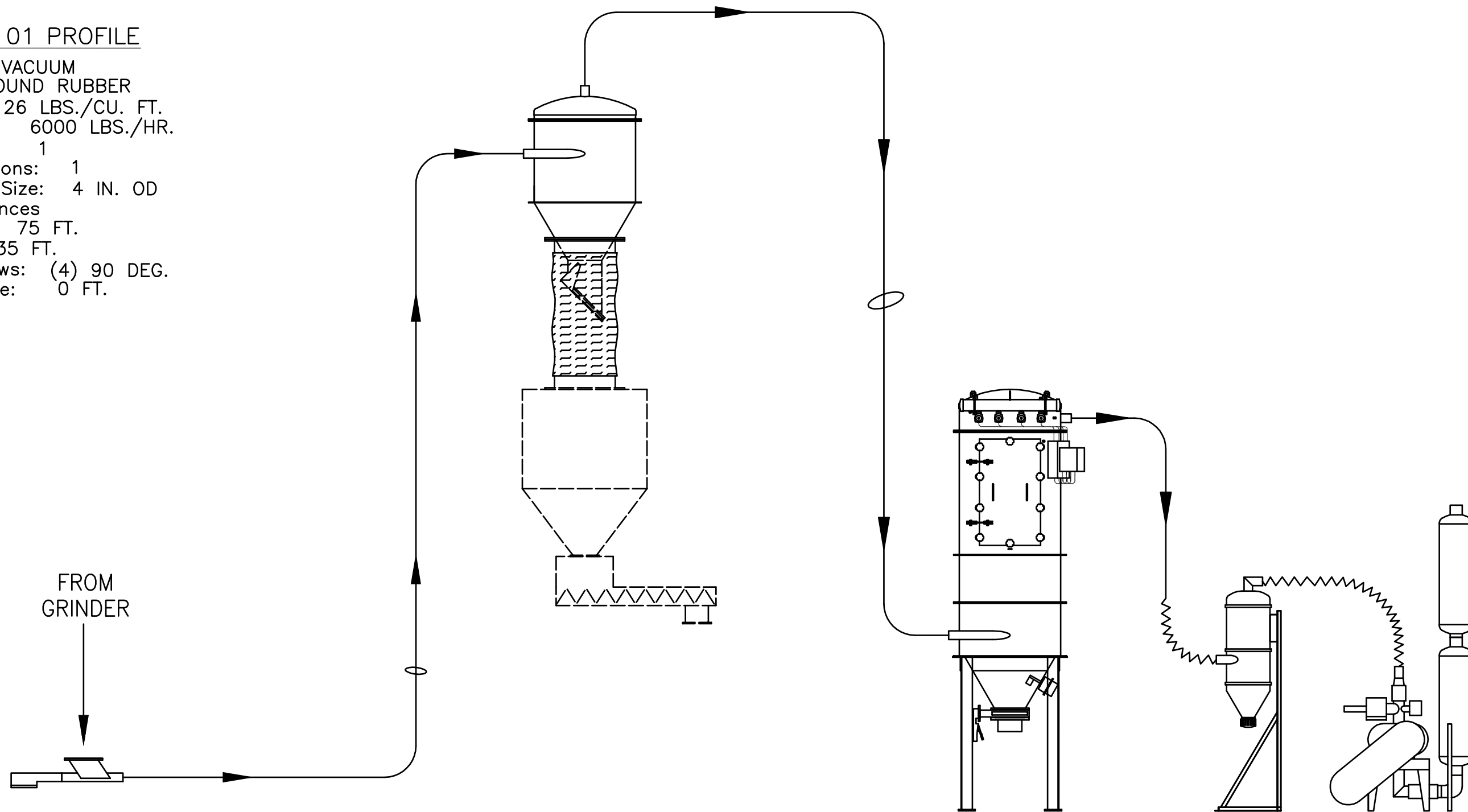
Plastics Industry

This company manufactures a broad variety of plastic products, mainly films and wrappings but also building materials (e.g. roof sheeting) and polystyrene. This project involved the supply of a continuous pressure system to convey product from big-bags to silos, and four vacuum receivers to convey product from silos to the extruders.



SYSTEM 01 PROFILE

System Type: VACUUM
Material: GROUND RUBBER
Bulk Density: 26 LBS./CU. FT.
Conveying Rate: 6000 LBS./HR.
No. of Sources: 1
No. of Destinations: 1
Conveying Line Size: 4 IN. OD
Conveying Distances
Horizontal: 75 FT.
Vertical: 35 FT.
No. of Elbows: (4) 90 DEG.
Flexible Hose: 0 FT.



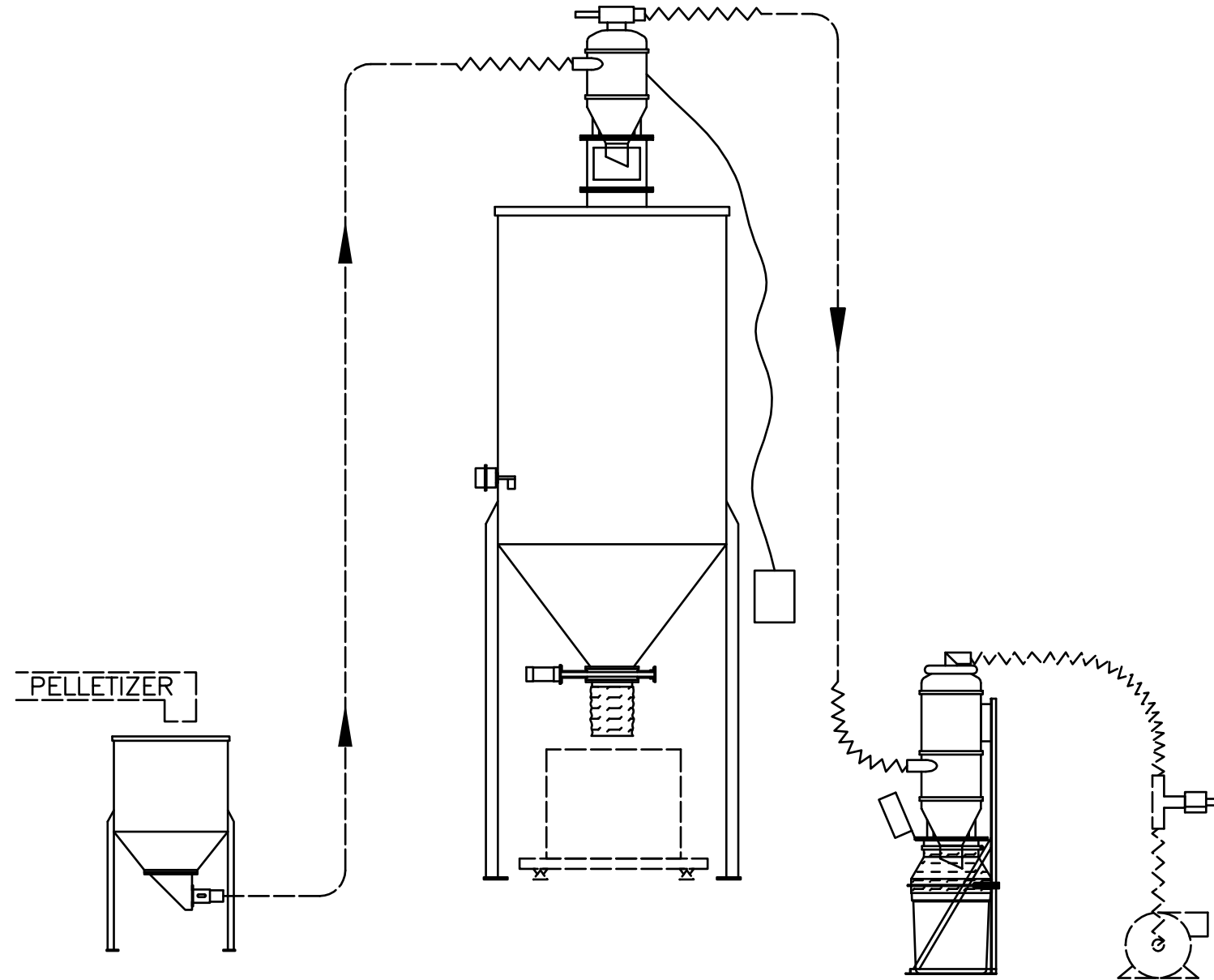
Plastics Industry

This customer produces specialty engineered polymers. They had tried with little success to convey ground rubber material, so K-Tron Process Group designed and provided a system to convey ground rubber from a grinder to a loss-in-weight feeder above an extruder. Our design included a special cyclone type receiver and oversized conveying line to help reduce friction caused by the material bouncing in the conveying line.



SYSTEM 1 PROFILE

System Type: 2400 VACUUM SEQUENCING
Material: HDPE PELLETS
Bulk Density: 35 LBS./CU. FT.
Conveying Rate: 4,400 LBS./HR.
No. of Sources: 1
No. of Destinations: 1
Conveying Line Size: 3" OD
Conveying Distances
Horizontal: 10 FT.
Vertical: 15 FT.
No. of Elbows: (2) 90 DEG.
Flexible Hose: 3 FT.

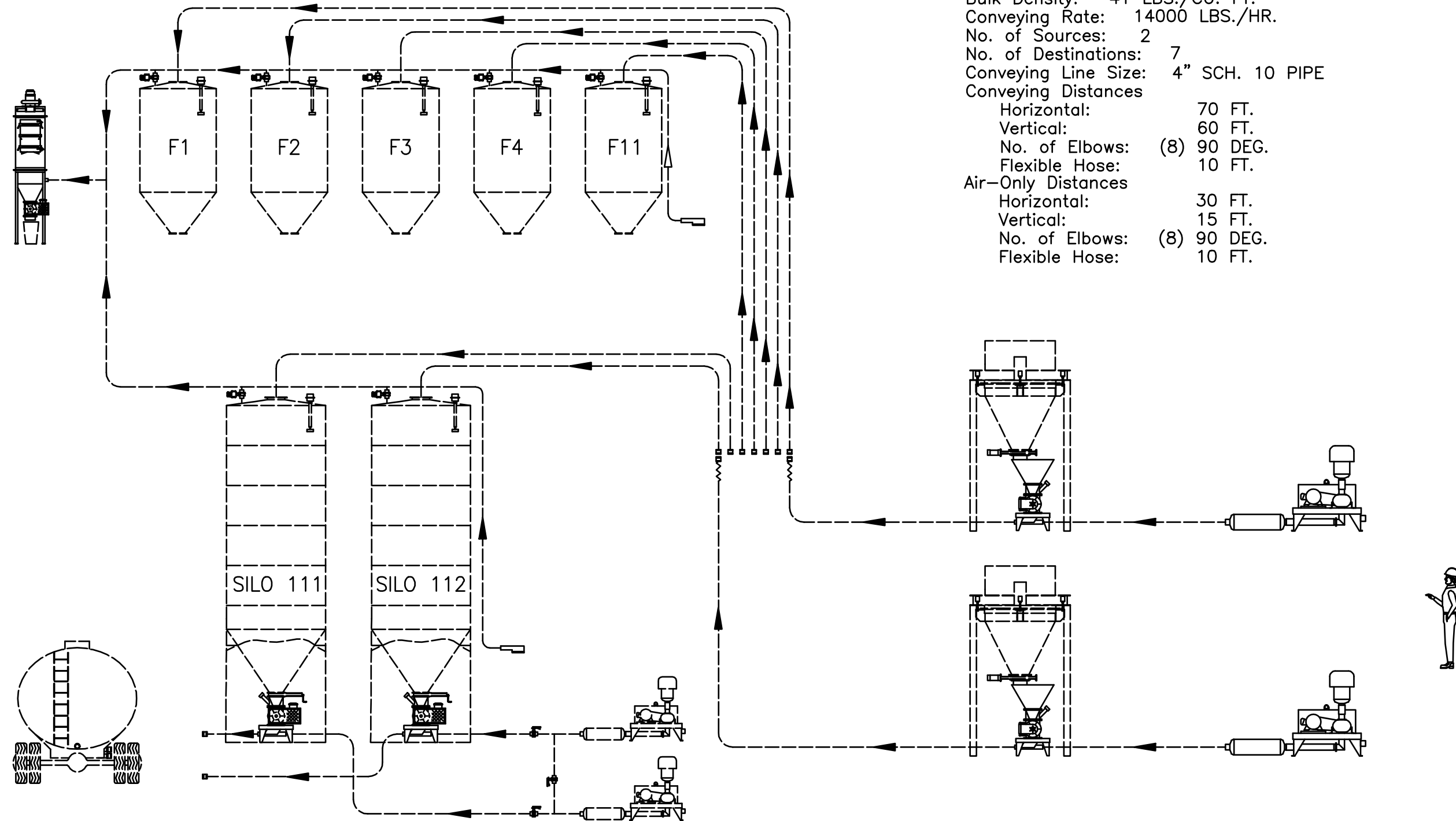


Plastics Industry

This project was supplied to a company that makes Cross-Linked Polyethylene Compounds (PEX) for hot and cold potable water systems as well as the pipe products. They also make Cross-Linked Polyethylene Compounds (XLPE) for low voltage wire & cable products: The components supplied for this project were designed to convey pelletized material from a hopper at the pelletizer discharge to a surge bin. The customer then was able to load out scaled Gaylord boxes for use in plant. System rate 4400 lbs. / hr.

SYSTEM 01 PROFILE

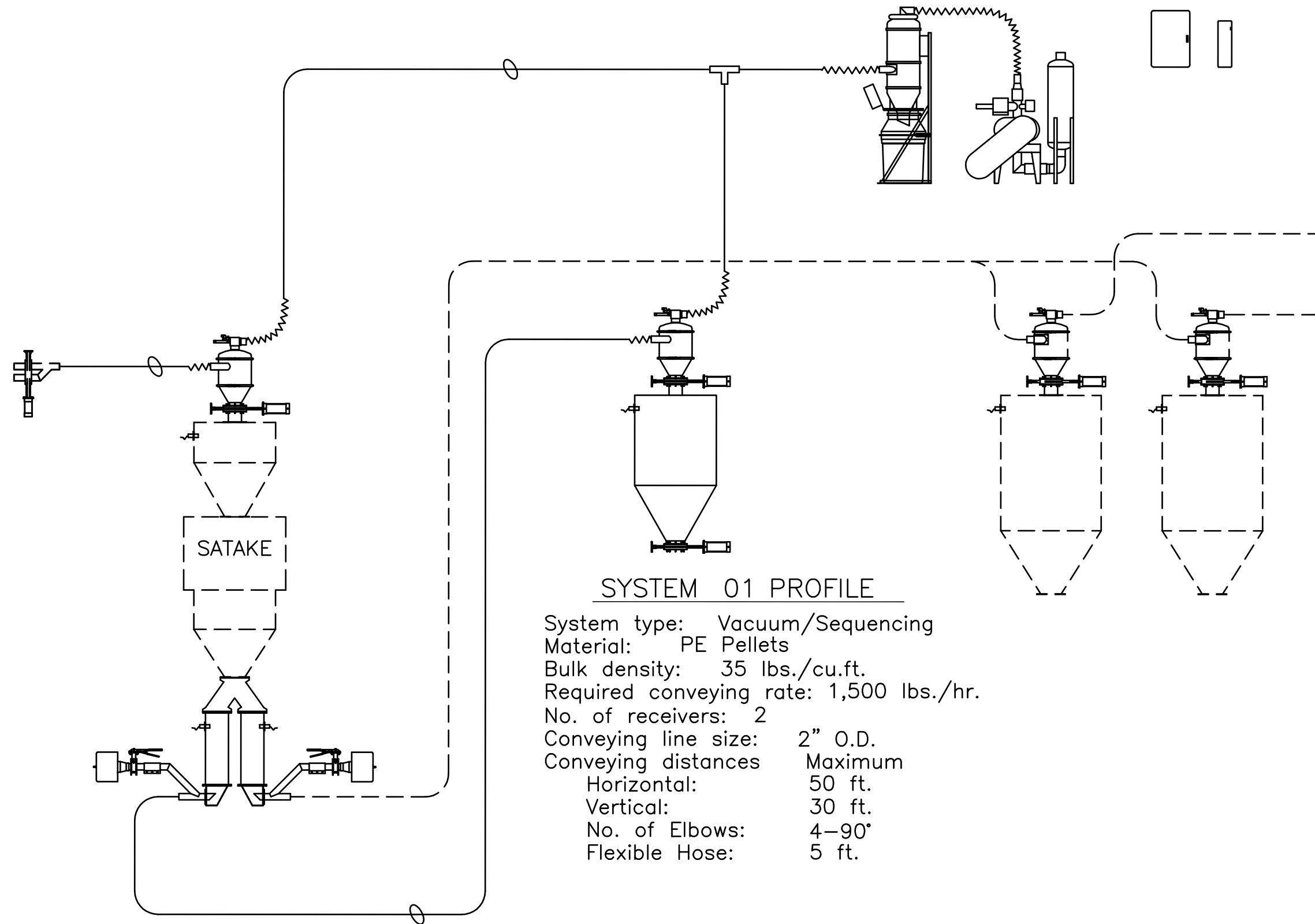
System Type: CONTINUOUS PRESSURE
 Material: NYLON 6 GLASS FILLED PELLETS
 Bulk Density: 41 LBS./CU. FT.
 Conveying Rate: 14000 LBS./HR.
 No. of Sources: 2
 No. of Destinations: 7
 Conveying Line Size: 4" SCH. 10 PIPE
 Conveying Distances
 Horizontal: 70 FT.
 Vertical: 60 FT.
 No. of Elbows: (8) 90 DEG.
 Flexible Hose: 10 FT.
 Air-Only Distances
 Horizontal: 30 FT.
 Vertical: 15 FT.
 No. of Elbows: (8) 90 DEG.
 Flexible Hose: 10 FT.



Plastics Industry

This system was supplied to a custom compounder. It is a pressure convey system designed to convey glass filled nylon pellets (natural and black) from bulk totes to storage silos at a rate of 12,000 PPH.





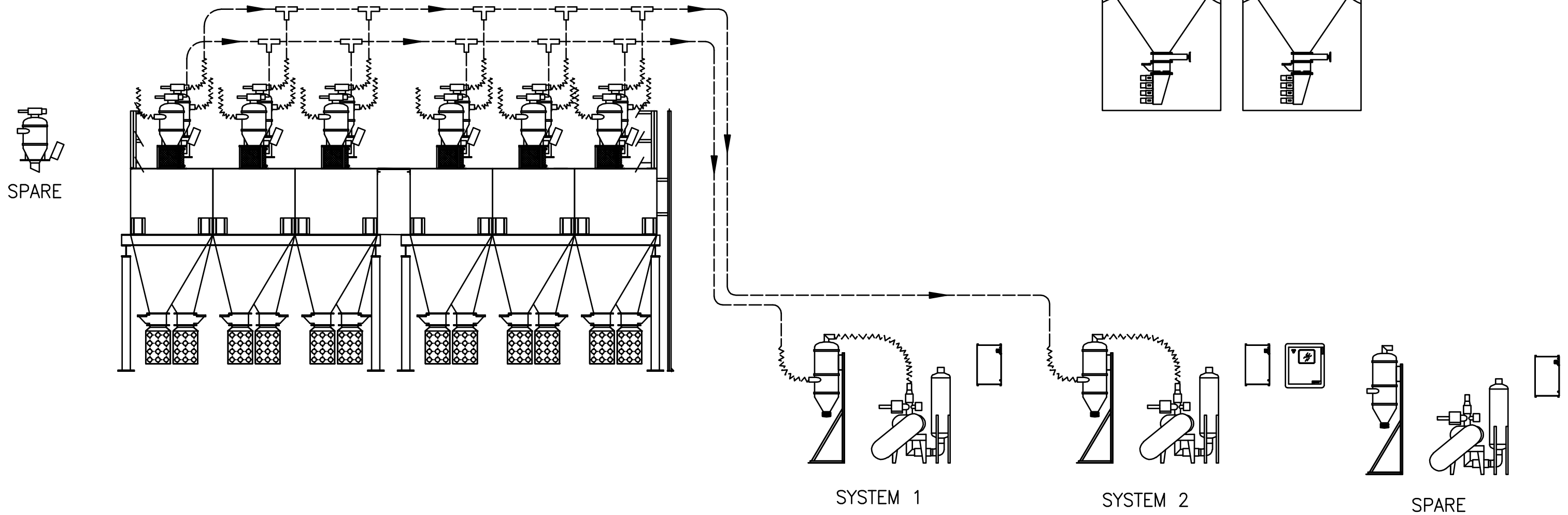
Plastics Industry

This system was supplied to a wire and cable coating company: They needed a vacuum sequencing system to convey material for one of two storage silos to a hopper above a screener. Once the material was screened the material was conveyed to the extrusion process using the same blower.



SYSTEM 01 PROFILE; (2) IDENTICAL SYSTEMS

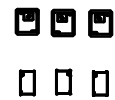
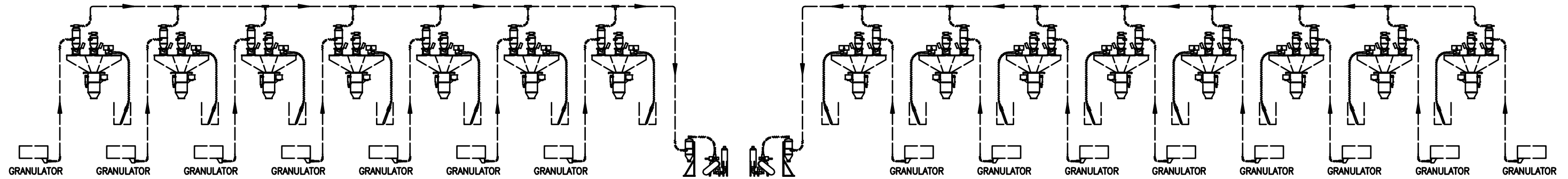
System Type: 2400 VACUUM SEQUENCING
 Material: PE PELLETS
 Bulk Density: 32 LBS./CU. FT.
 Conveying Rate: 3600 LBS./HR.
 No. of Sources: 12
 No. of Destinations: 12
 Conveying Line Size: 2" OD TUBE
 Conveying Distances
 Horizontal: 240 FT.
 Vertical: 40 FT.
 No. of Elbows: (6) 90 DEG.
 Flexible Hose: 5 FT.



Plastics Industry

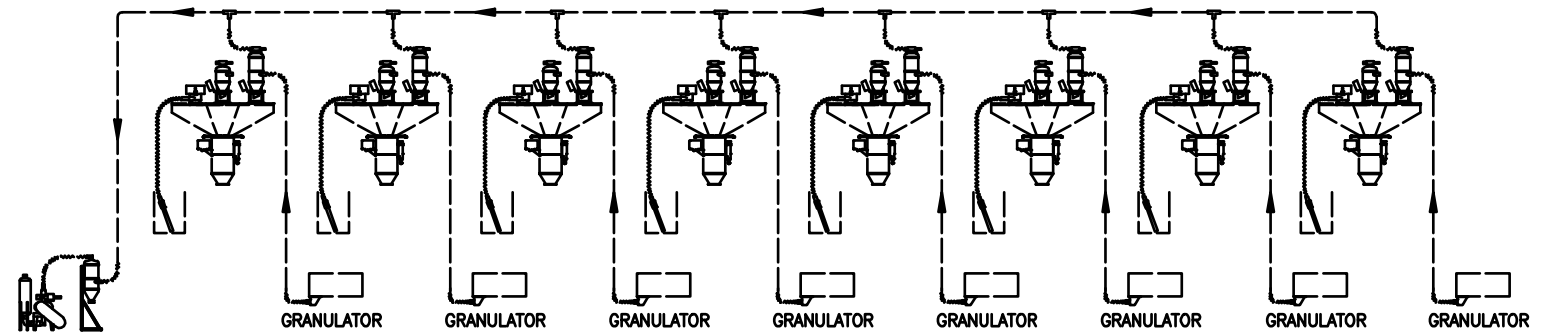
This project was for a customer that was doing a 50,000 square foot expansion to house two seven-layer co-extrusion lines to produce specialty films for the food and medical markets. The equipment supplied includes two new 12 x 60 silos with accessories, a (12) station surge bin farm with accessories, and (3) Series 4, 2400 PLC systems to load the surge bins with material from the silos. The surge bins will be feeding (2) seven layer co-extrusion lines.





SYSTEM 01 PROFILE

System Type: 2400 VACUUM SEQUENCING
 Material: PE & PP REGRIND
 Bulk Density: 20-25 LBS./CU. FT.
 Conveying Rate: 1500 LBS./HR.
 No. of Sources: 23
 No. of Destinations: 23
 Conveying Line Size: 2" OD
 Conveying Distances
 Horizontal: 10 FT.
 Vertical: 15 FT.
 No. of Elbows: (1) 90 DEG.
 Flexible Hose: 15 FT.



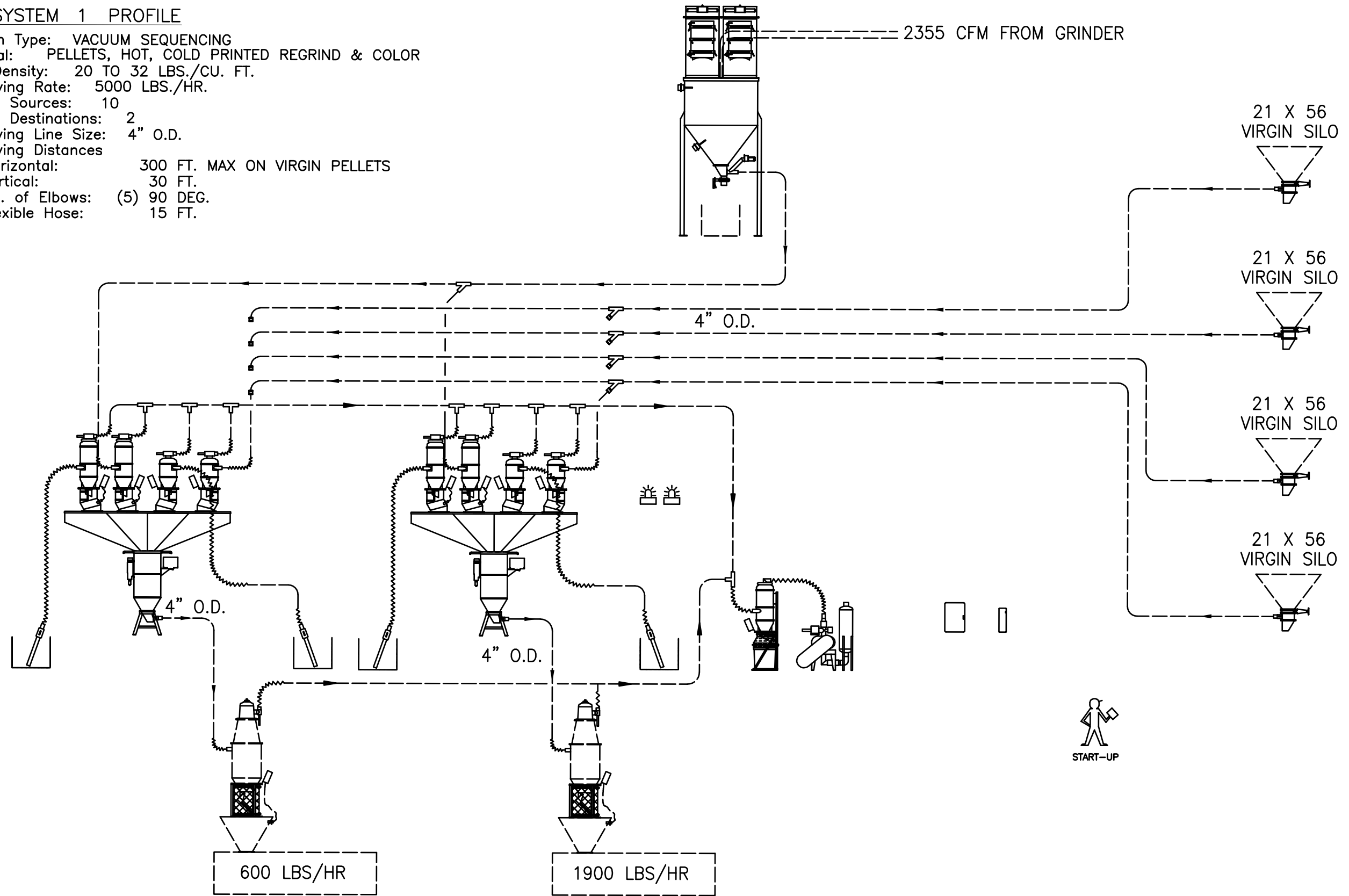
Plastics Industry

This project was for a large custom injection molder, they have over 100 injection molding machines and over 500 different molds. The equipment supplied on this project was three Series 4 2400 vacuum sequencing machines and 23 C100 loaders that will be used to supply material to a total of 23 injection molding machines. The equipment was supplied with Series 4 controls.



SYSTEM 1 PROFILE

System Type: VACUUM SEQUENCING
 Material: PELLETS, HOT, COLD PRINTED REGRIND & COLOR
 Bulk Density: 20 TO 32 LBS./CU. FT.
 Conveying Rate: 5000 LBS./HR.
 No. of Sources: 10
 No. of Destinations: 2
 Conveying Line Size: 4" O.D.
 Conveying Distances
 Horizontal: 300 FT. MAX ON VIRGIN PELLETS
 Vertical: 30 FT.
 No. of Elbows: (5) 90 DEG.
 Flexible Hose: 15 FT.



Plastics Industry

This project was for a plastics cup manufacture. The project involved multiple 4" vacuum sequencing systems and gravimetric blending equipment to move polypropylene pellets, regrinds, and color additives to customers co-extruders used in cup lid production.

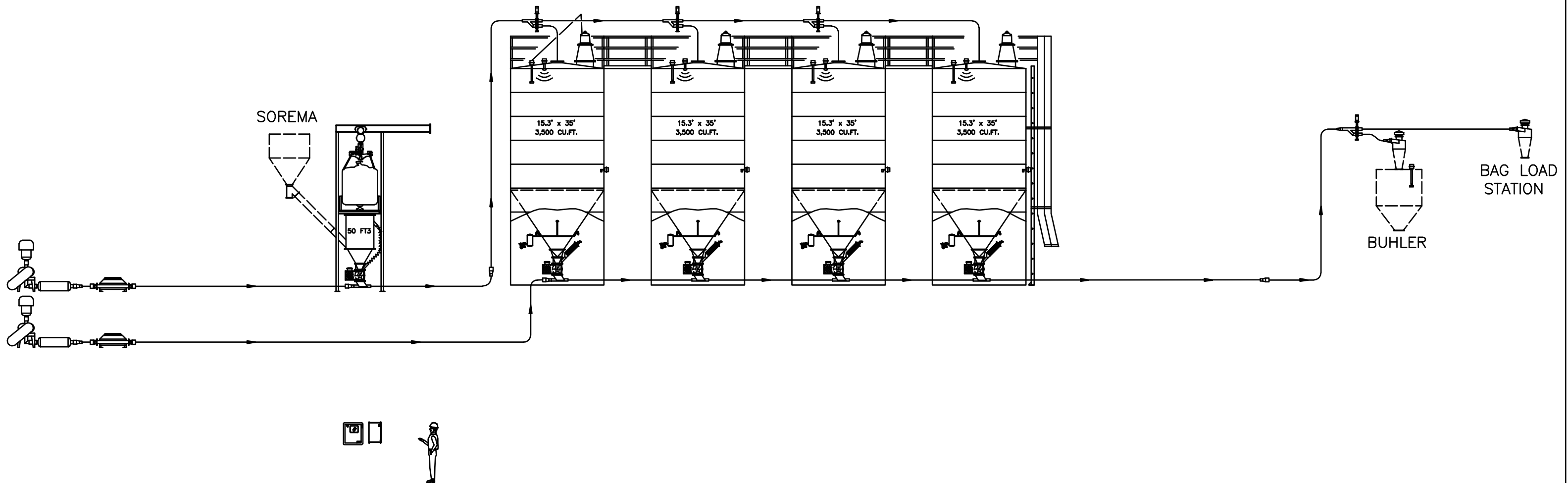


WORK IN PROGRESS SYSTEM 01 PROFILE

System Type: PRESSURE TRANSFER
 Material: PET FLAKE
 Bulk Density: 35 LBS./CU. FT.
 Conveying Rate: 6,700 LBS./HR.
 No. of Sources: 1
 No. of Destinations: 1 OF 4
 Conveying Line Size: 3 IN. OD. TUBE
 Conveying Distances: MAXIMUM
 Horizontal: 300 FT.
 Vertical: 40 FT.
 No. of Elbows: (6) 90 DEG.
 Flexible Hose: 0 FT.
 DISTANCE OF 3" OD TUBE: 240 FT.
 DISTANCE OF 3" SCHEDULE 10 PIPE: 100 FT.

FINISHED GOODS SYSTEM 02 PROFILE

System Type: PRESSURE TRANSFER
 Material: PET FLAKE
 Bulk Density: 35 LBS./CU. FT.
 Conveying Rate: 6,000 LBS./HR.
 No. of Sources: 4
 No. of Destinations: 1
 Conveying Line Size: 3 IN. OD. TUBE
 Conveying Distances: MAXIMUM
 Horizontal: 315 FT.
 Vertical: 40 FT.
 No. of Elbows: (6) 90 DEG.
 Flexible Hose: 0 FT.
 DISTANCE OF 3" OD TUBE: 190 FT.
 DISTANCE OF 3" SCHEDULE 150 PIPE: 150 FT.
 DISTANCE OF 4" OD TUBE: 20 FT.



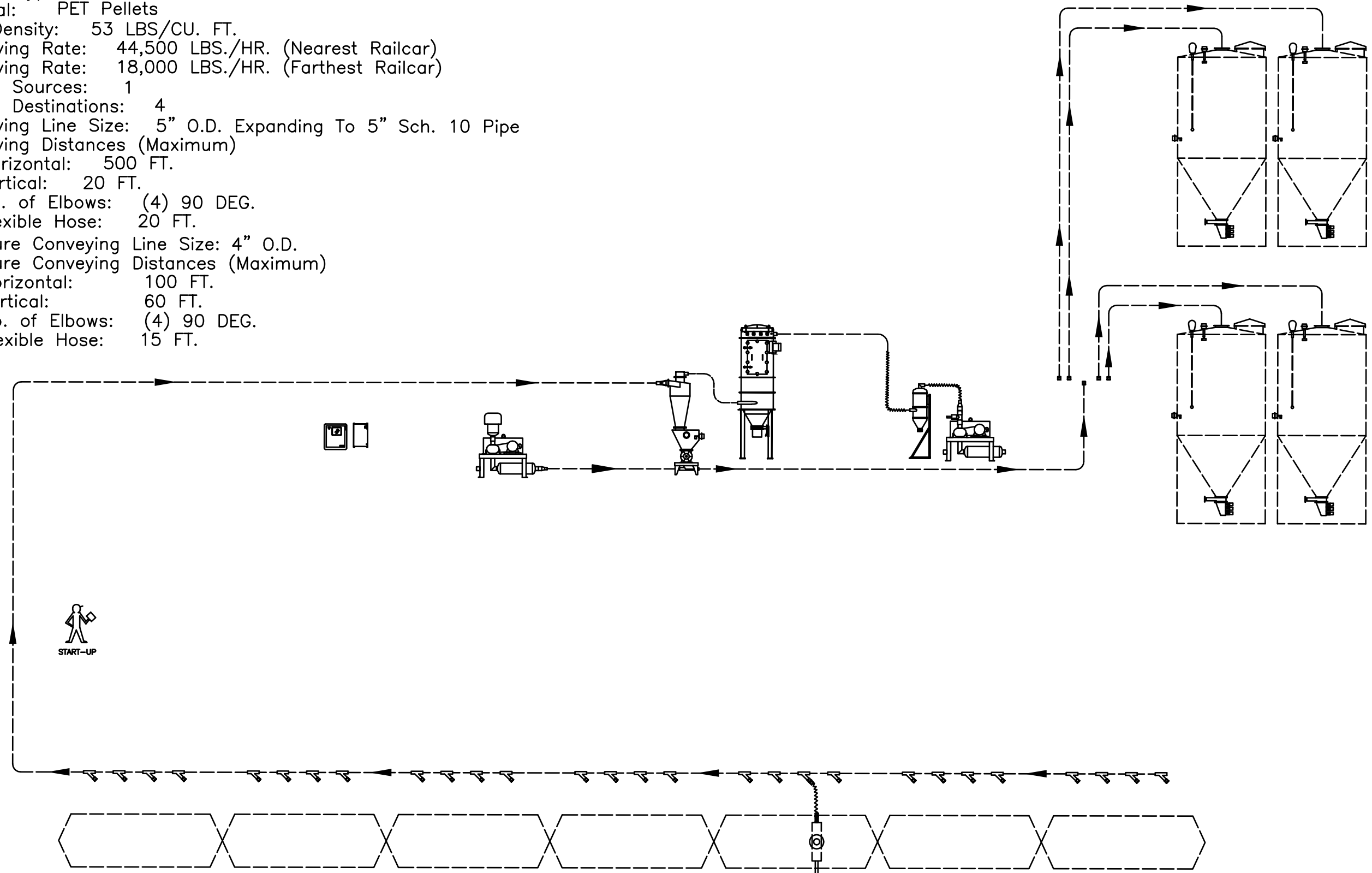
Plastics Industry

PWP - Pressure transfer system of PET flake.
 System 1 conveys from a bulk bag unloader at 6,700 lbs/hr.
 System 2 conveys from silos at a rate of 6,000 lbs/hr.



SYSTEM 01 PROFILE

System Type: Dual Blower Rail Unload
 Material: PET Pellets
 Bulk Density: 53 LBS/CU. FT.
 Conveying Rate: 44,500 LBS./HR. (Nearest Railcar)
 Conveying Rate: 18,000 LBS./HR. (Farthest Railcar)
 No. of Sources: 1
 No. of Destinations: 4
 Conveying Line Size: 5" O.D. Expanding To 5" Sch. 10 Pipe
 Conveying Distances (Maximum)
 Horizontal: 500 FT.
 Vertical: 20 FT.
 No. of Elbows: (4) 90 DEG.
 Flexible Hose: 20 FT.
 Pressure Conveying Line Size: 4" O.D.
 Pressure Conveying Distances (Maximum)
 Horizontal: 100 FT.
 Vertical: 60 FT.
 No. of Elbows: (4) 90 DEG.
 Flexible Hose: 15 FT.



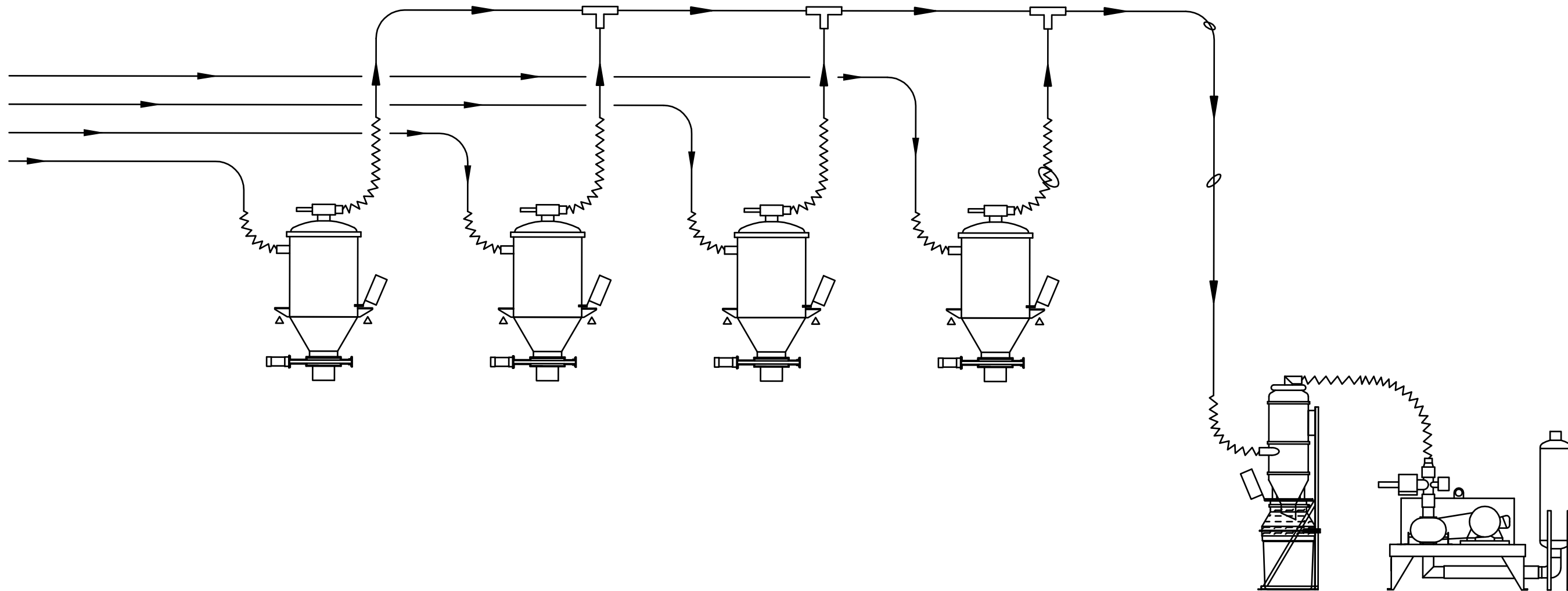
Plastics Industry

This project was supplied to a company that makes various food packaging containers, consumer food serving products, food bags, trash bags, etc. The equipment supplied for this project was a dual blower vacuum and pressure rail unloading system. We are conveying the material (PET pellets) a maximum of 500 ft on the vacuum side and 100 ft on the pressure side of the system; from 1 compartment of multiple railcars to 1 of 4 destinations (silos). The system was supplied complete with controls. Rates are between 18,000 to 44,500 lbs. / hr.



SYSTEM 01 PROFILE

System Type: SERIES 2400 VACUUM SEQUENCING
Material: PLASTIC PELLETS
Bulk Density: 32-35 LBS/CU. FT.
Conveying Rate: 5000 LBS./HR.
No. of Sources: 4
No. of Destinations: 4
Conveying Line Size: 3 IN. OD TUBE
Conveying Distances
Horizontal: 175 FT.
Vertical: 30 FT.
No. of Elbows: (5) 90 DEG.
Flexible Hose: 10 FT.



Plastics Industry

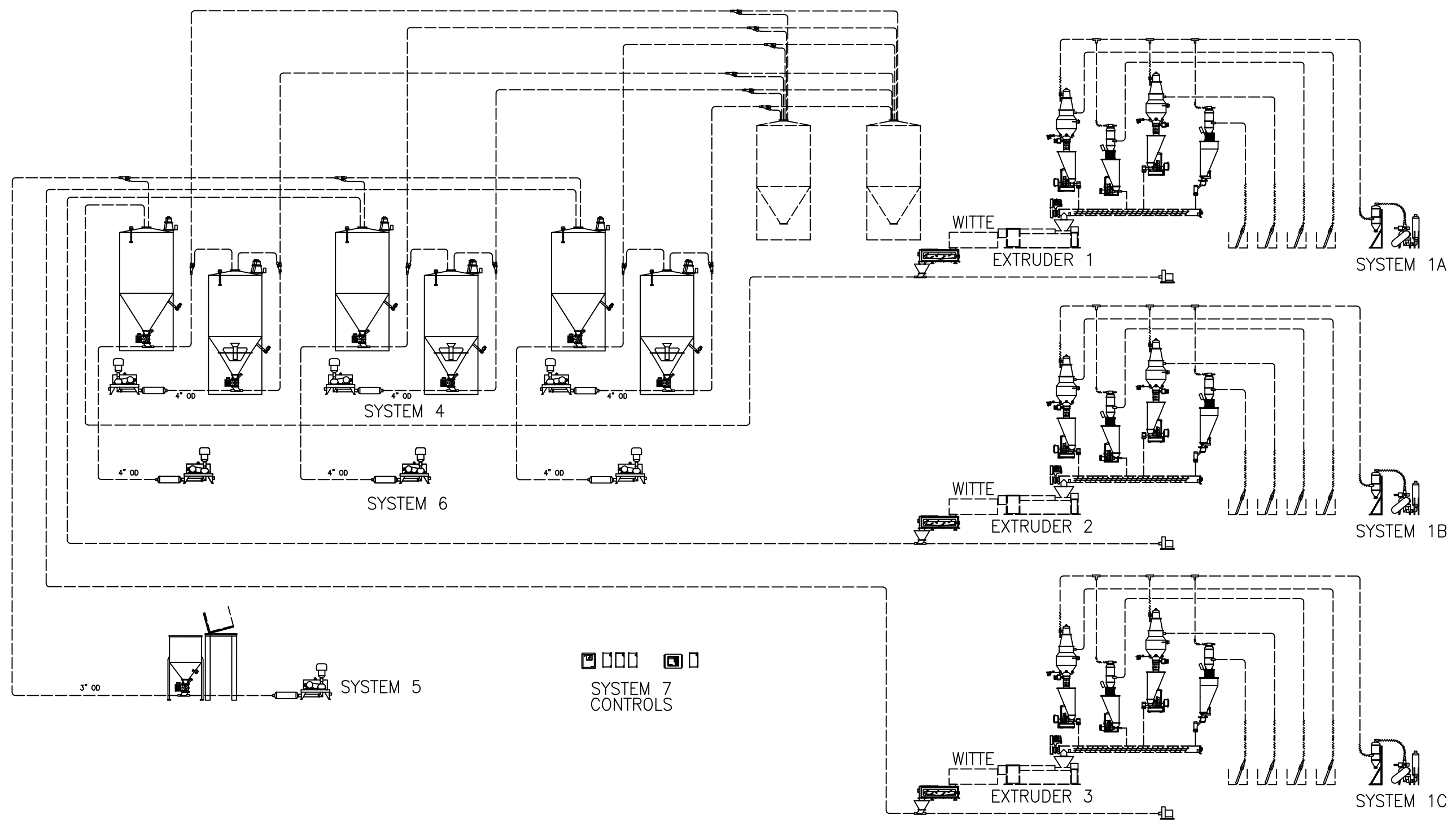
This project was supplied to a Plastics Compounder. Plastic pellets are conveyed by vacuum from four sources to four destination receivers that are on load cells.

SYSTEM 1 PROFILE
 System Type: 2400 VACUUM SEQUENCING
 Material: PLASTIC PELLETS, GRANULAR, CALCIUM CARBONATE
 Bulk Density: 32, 35, 55 LBS./CU. FT.
 Conveying Rate: 4,000 LBS./HR.
 No. of Sources: 4
 No. of Destinations: 4
 Conveying Line Size: 3" OD TUBE
 Conveying Distances: MAXIMUM
 Horizontal: 30 FT.
 Vertical: 20 FT.
 No. of Elbows: (3) 90 DEG.
 Flexible Hose: 10 FT.

SYSTEM 4 PROFILE
 System Type: PRESSURE TRANSFER
 Material: PLASTIC PELLETS
 Bulk Density: 32 LBS./CU. FT.
 Conveying Rate: 20,000 LBS./HR.
 No. of Sources: 1
 No. of Destinations: 2
 Conveying Line Size: 4" OD TUBE
 Conveying Distances: MAXIMUM
 Horizontal: 250 FT.
 Vertical: 50 FT.
 No. of Elbows: (6) 90 DEG.
 Flexible Hose: 0 FT.

SYSTEM 5 PROFILE
 System Type: PRESSURE TRANSFER
 Material: PLASTIC PELLETS
 Bulk Density: 32 LBS./CU. FT.
 Conveying Rate: 10,000 LBS./HR.
 No. of Sources: 1
 No. of Destinations: 3
 Conveying Line Size: 3" OD TUBE
 Conveying Distances: MAXIMUM
 Horizontal: 150 FT.
 Vertical: 30 FT.
 No. of Elbows: (6) 90 DEG.
 Flexible Hose: 0 FT.

SYSTEM 6 PROFILE
 System Type: PRESSURE TRANSFER
 Material: PLASTIC PELLETS
 Bulk Density: 32 LBS./CU. FT.
 Conveying Rate: 20,000 LBS./HR.
 No. of Sources: 1
 No. of Destinations: 2
 Conveying Line Size: 4" OD TUBE
 Conveying Distances: MAXIMUM
 Horizontal: 250 FT.
 Vertical: 50 FT.
 No. of Elbows: (6) 90 DEG.
 Flexible Hose: 0 FT.



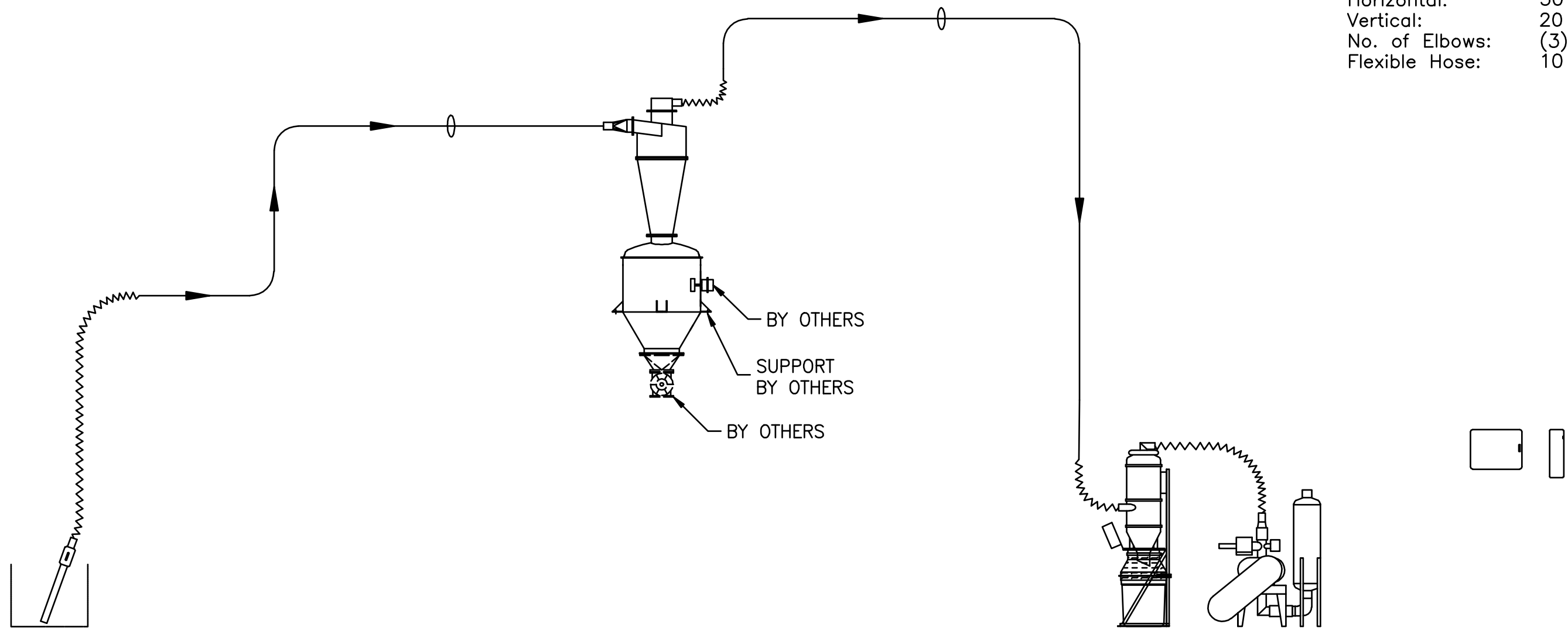
Plastics Industry

A blown film manufacture decided to save money by doing their plastic compounding in house. We provided equipment for three new compounding extrusion lines. The systems included conveying raw materials from boxes, bulk bags and silos, to K-Tron loss-in-weight and volumetric feeders above the extruders. After the material was pelletized it was pressure conveyed to storage silos. We provided two dedicated silos for each line. One was for storage and the second was equipped with a ProBlend Zone Blender to blend the materials as they were conveyed from the process. Once blended the material was conveyed to one of two large outdoor storage silos.



SYSTEM 01 PROFILE

System Type:	Continuous Vacuum
Material:	Plastic Regrind
Bulk Density:	35 lbs./cu. ft.
Conveying Rate:	5,000 lbs./hr.
No. of Sources:	1
No. of Destinations:	1
Conveying Line Size:	3 in. O.D. Tube
Conveying Distances	
Horizontal:	30 ft.
Vertical:	20 ft.
No. of Elbows:	(3) 90°
Flexible Hose:	10 ft.



Plastics Industry

Continuous system - Material is conveyed to cyclone filling a surge hopper and is discharged by a rotary valve.



SYSTEM PROFILE

System Type: 2400 VACUUM SEQUENCING

Material: PLASTIC REGRIND

Bulk Density: 16/CU. FT.

Conveying Rate: 8,000 LBS./HR.

No. of Sources: 2

No. of Destinations: 1

Conveying Line Size: 4 IN. O.D. TUBE

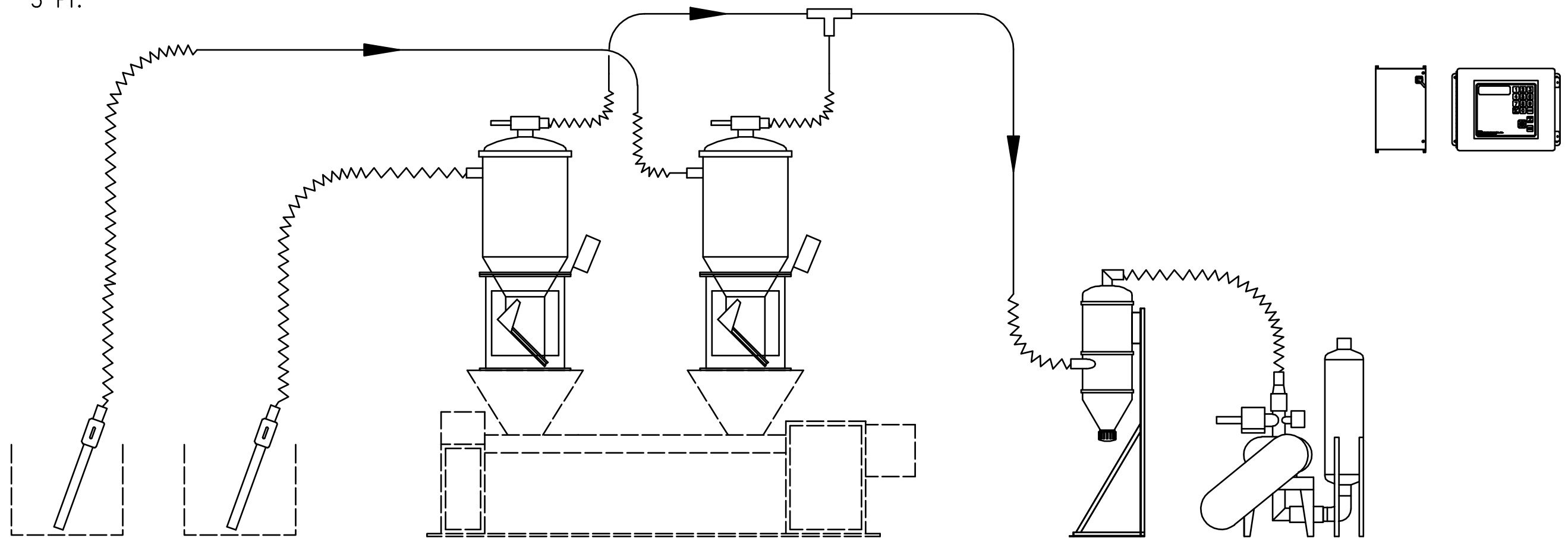
Conveying Distances

Horizontal: 10 FT.

Vertical: 20 FT.

No. of Elbows: (1) 90 DEG.

Flexible Hose: 5 FT.



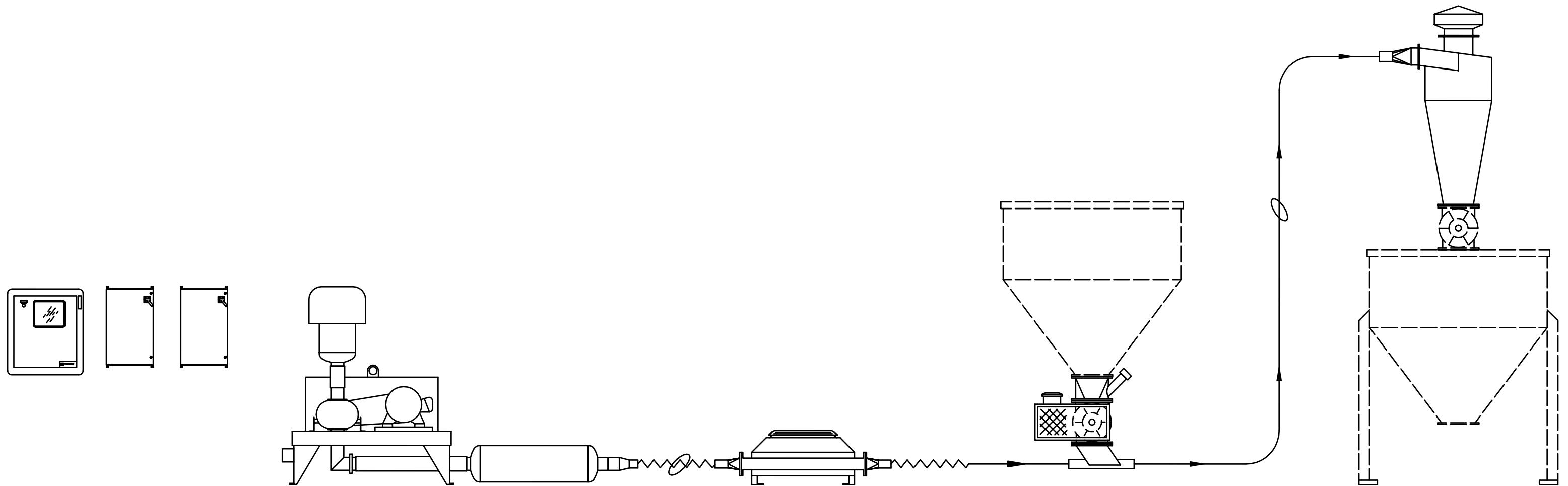
Plastics Industry

This project included two vacuum receivers. The 2424 units vacuum conveyed various film & trim regrind from boxes or bulk bag unloader into an existing mixer on weigh cells. The system is designed for 8000 PPH.



SYSTEM 01 PROFILE

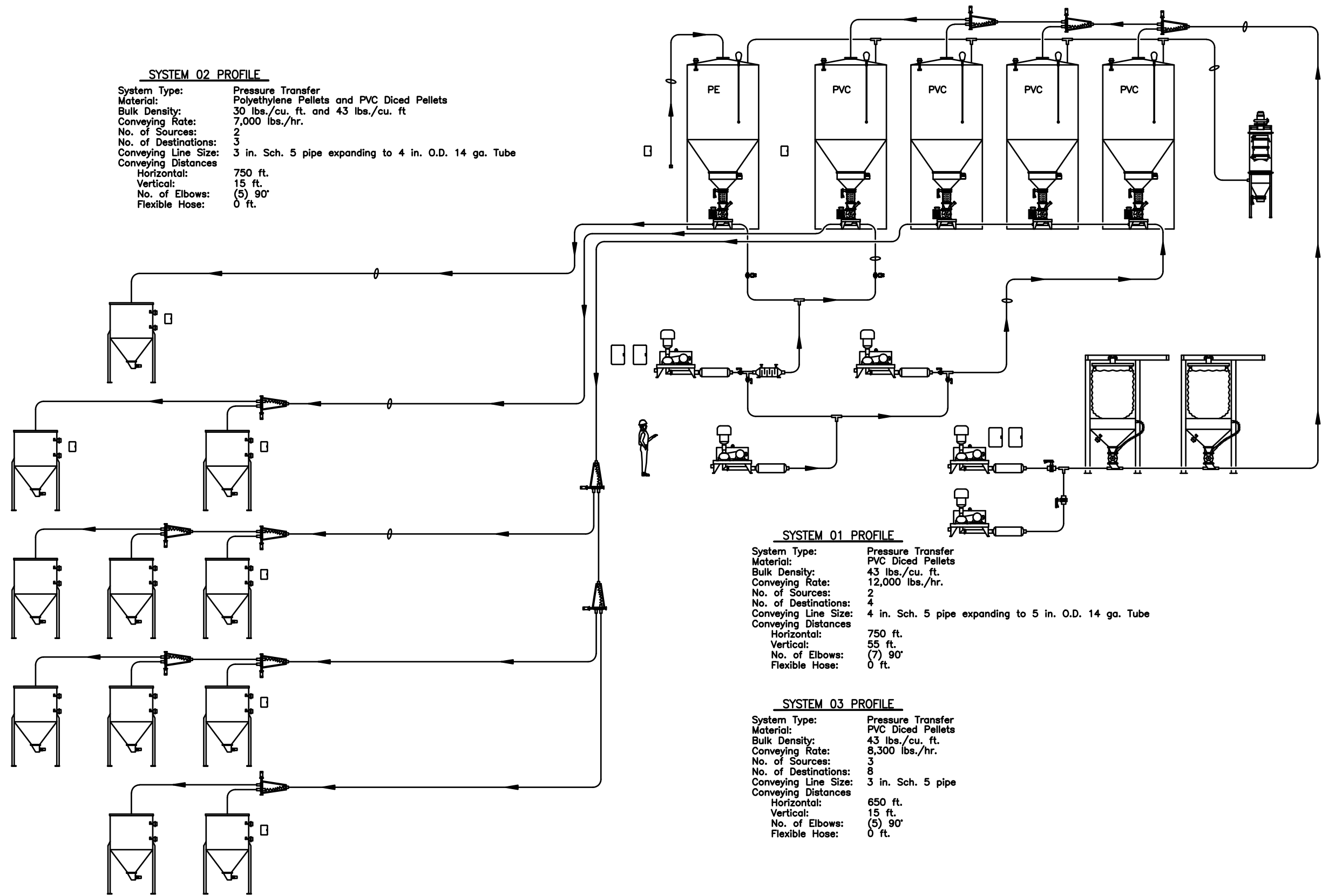
System Type: PRESSURE
Material: POLYETHYLENE
Bulk Density: 30 LBS/CU. FT.
Conveying Rate: 44,000 LBS./HR.
No. of Sources: 1
No. of Destinations: 1
Conveying Line Size: 5" OD
Conveying Distances
Horizontal: 150 FT.
Vertical: 30 FT.
No. of Elbows: (4) 90 DEG.
Flexible Hose: 20 FT.



Plastics Industry

This company is a PP and PE resin producer. With this project a positive pressure conveying system was supplied for in-plant conveying of finished product.





SYSTEM 02 PROFILE

System Type: Pressure Transfer
 Material: Polyethylene Pellets and PVC Diced Pellets
 Bulk Density: 30 lbs./cu. ft. and 43 lbs./cu. ft.
 Conveying Rate: 7,000 lbs./hr.
 No. of Sources: 2
 No. of Destinations: 3
 Conveying Line Size: 3 in. Sch. 5 pipe expanding to 4 in. O.D. 14 ga. Tube
 Conveying Distances
 Horizontal: 750 ft.
 Vertical: 15 ft.
 No. of Elbows: (5) 90°
 Flexible Hose: 0 ft.

SYSTEM 01 PROFILE

System Type: Pressure Transfer
 Material: PVC Diced Pellets
 Bulk Density: 43 lbs./cu. ft.
 Conveying Rate: 12,000 lbs./hr.
 No. of Sources: 2
 No. of Destinations: 4
 Conveying Line Size: 4 in. Sch. 5 pipe expanding to 5 in. O.D. 14 ga. Tube
 Conveying Distances
 Horizontal: 750 ft.
 Vertical: 55 ft.
 No. of Elbows: (7) 90°
 Flexible Hose: 0 ft.

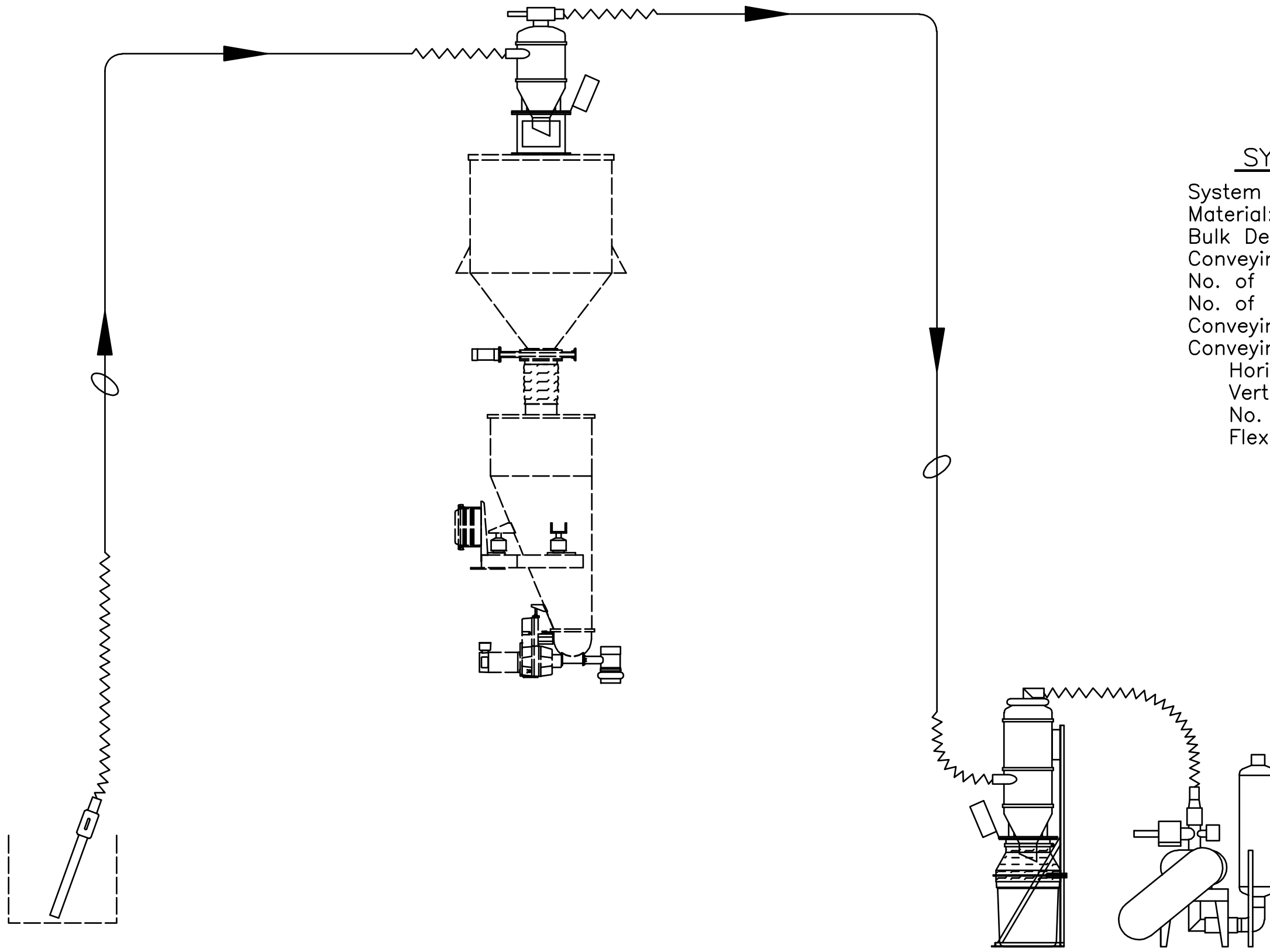
SYSTEM 03 PROFILE

System Type: Pressure Transfer
 Material: PVC Diced Pellets
 Bulk Density: 43 lbs./cu. ft.
 Conveying Rate: 8,300 lbs./hr.
 No. of Sources: 3
 No. of Destinations: 8
 Conveying Line Size: 3 in. Sch. 5 pipe
 Conveying Distances
 Horizontal: 650 ft.
 Vertical: 15 ft.
 No. of Elbows: (5) 90°
 Flexible Hose: 0 ft.

Plastics Industry

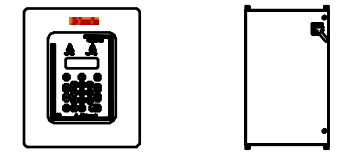
This project was for a customer that designs and produces a wide range of cables used in power, industrial, construction, and communications applications. The equipment provided includes; Three pressure conveying systems with backup blowers, day bins, silos, multiple diverter valves, and a complete controls package. The product being handled includes; polyethylene, and diced pvc pellets. System rates vary from 7,000 to 12,000 lbs. / hr. and conveying distances up to 750 ft.





SYSTEM 01 PROFILE

System Type: 2400 VACUUM SEQUENCING
 Material: POLYMER PELLETS
 Bulk Density: 35 LBS./CU. FT.
 Conveying Rate: 5300 LBS./HR.
 No. of Sources: 1
 No. of Destinations: 1
 Conveying Line Size: 3" OD TUBE
 Conveying Distances
 Horizontal: 10 FT.
 Vertical: 35 FT.
 No. of Elbows: (3) 90 DEG.
 Flexible Hose: 15 FT.



Plastics Industry

This customer is a producer of masterbatches and compounds. They are installing their first high throughput extruder ("mega-compounder") and acquired a vacuum conveying system to convey resin from bulk-bags to a holding hopper that is used to automatically refill a loss-in-weight feeder. All other materials are gravity fed from bulk-bag into the feeders.



SYSTEM 01 PROFILE

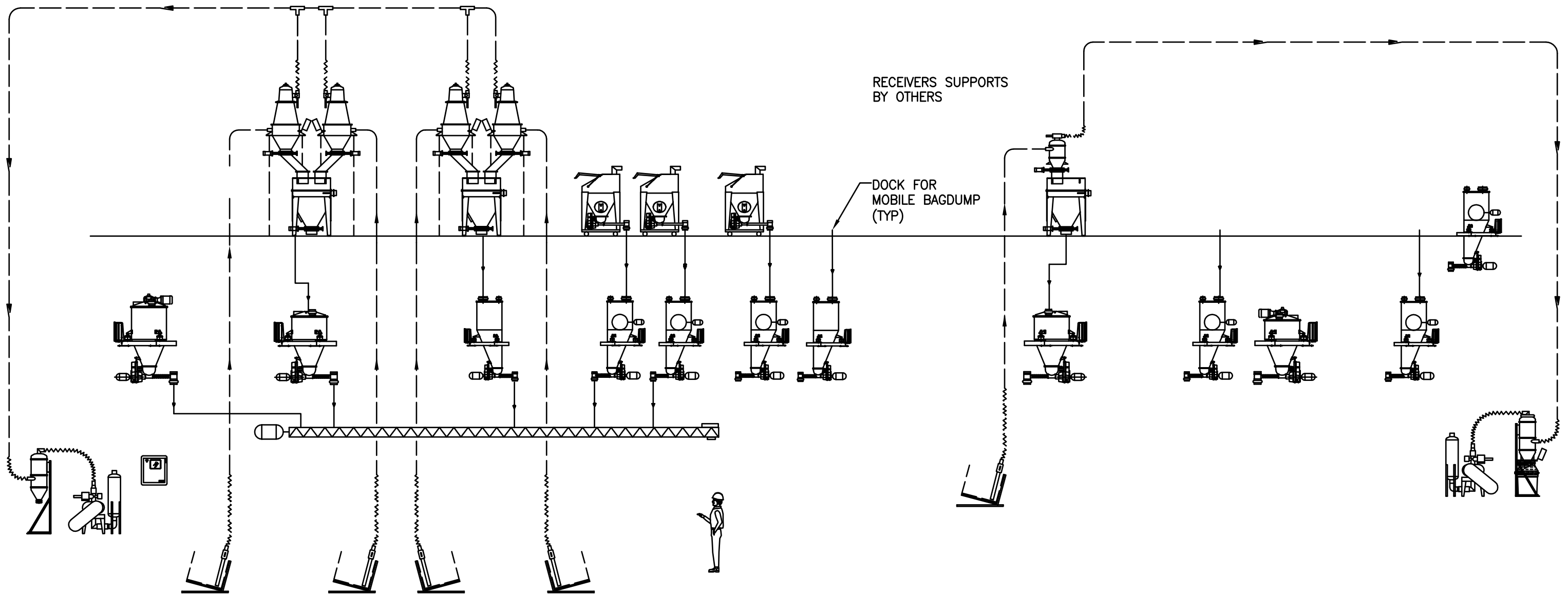
System Type: 2400 VACUUM SEQUENCING
 Material: POLYMER
 Bulk Density: 19.27 TO 29.83 LBS/CU. FT.
 Conveying Rate: 2500 LBS./HR.
 No. of Sources: 4
 No. of Destinations: 4
 Conveying Line Size: 3" OD TUBE
 Conveying Distances

	CURRENT	FUTURE
Horizontal:	75 FT.	155 FT.
Vertical:	30 FT.	40 FT.
No. of Elbows:	(4) 90 DEG.	(4) 90 DEG.
Flexible Hose:	10 FT.	10 FT.

SYSTEM 02 PROFILE

System Type: 2400 VACUUM SEQUENCING
 Material: REWORK PELLETS
 Bulk Density: 30 LBS/CU. FT.
 Conveying Rate: 1250 LBS./HR.
 No. of Sources: 1
 No. of Destinations: 1
 Conveying Line Size: 3" OD TUBE
 Conveying Distances

	CURRENT	FUTURE
Horizontal:	75 FT.	155 FT.
Vertical:	30 FT.	40 FT.
No. of Elbows:	(4) 90 DEG.	(4) 90 DEG.
Flexible Hose:	10 FT.	10 FT.



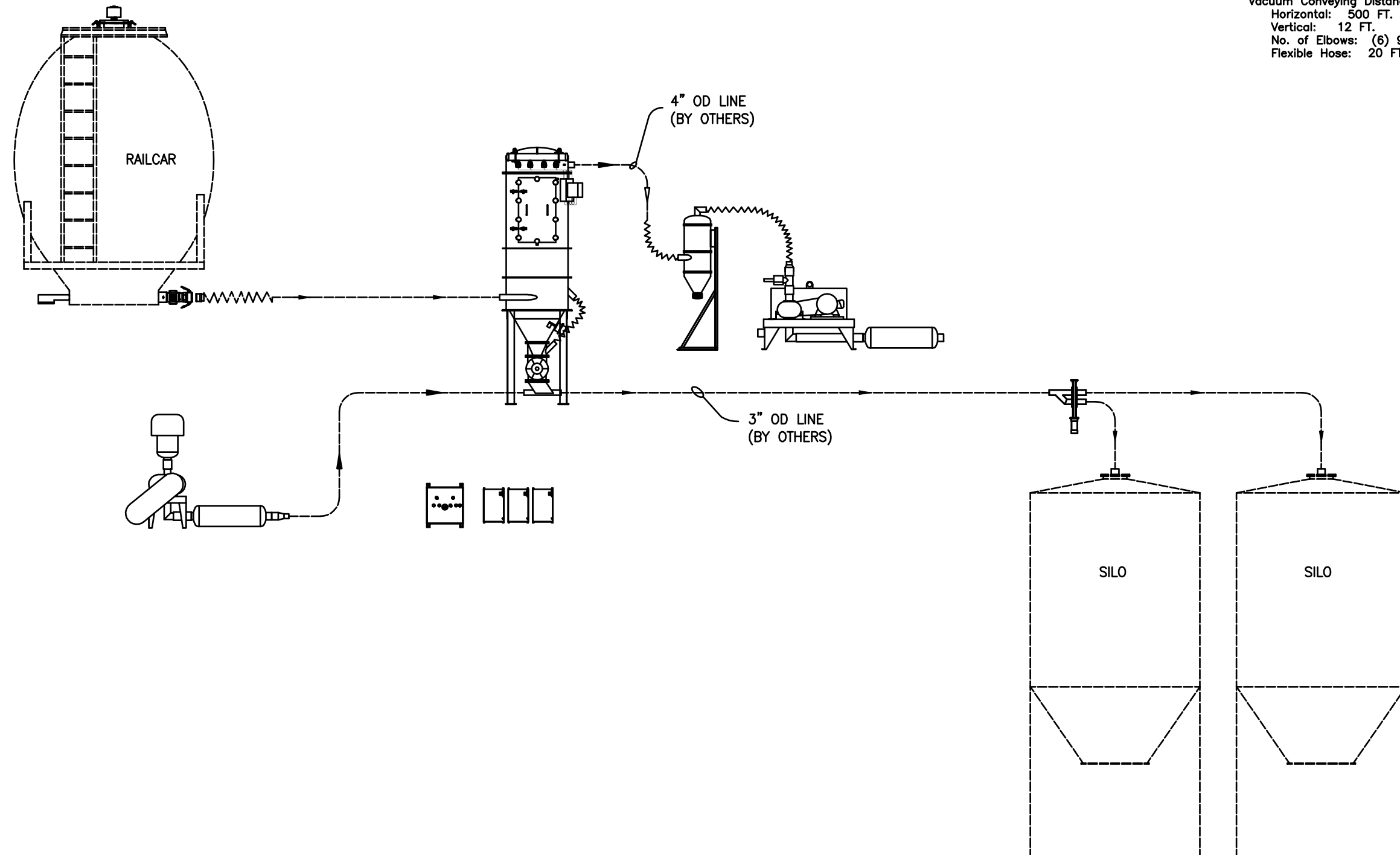
Plastics Industry

These are two projects for a plastic compounder. We provided vacuum sequencing refill systems in conjunction with feeders.



SYSTEM 01 PROFILE

System Type: Dual Blower Rail Unload
Material: Polypropylene Pellets
Conveying Rate: 5000 LBS./HR.
Pressure Conveying Line Size: 3" OD
Pressure Conveying Distances
Horizontal: 100 FT.
Vertical: 65 FT.
No. of Elbows: (4) 90 DEG.
Flexible Hose: 20 FT.
Vacuum Conveying Line Size: 4" OD
Vacuum Conveying Distances
Horizontal: 500 FT.
Vertical: 12 FT.
No. of Elbows: (6) 90 DEG.
Flexible Hose: 20 FT.



Plastics Industry

This was supplied to an OEM. Polypropylene pellets are being conveyed at 5,000 lb/hr from 4 railcars to 2 silos using a dual blower rail unload system. The vacuum distance is 500 feet.



SYSTEM 01 PROFILE

System Type: Vacuum Pressure Rail unload

Material: Polypropylene Pellets

Bulk Density: 35 lbs./cu. ft.

Conveying Rate: 10,000–12,000 lbs./hr.

No. of Sources: 2 Railcars

No. of Destinations: 1 Silo

Vacuum Conveying Line Size: 4 in. O.D.

Vacuum Conveying Distances

Horizontal: 150 ft.

Vertical: 10 ft.

No. of Elbows: (4) 90 Deg.

Flexible Hose: 50 ft.

Pressure Conveying Line Size: 4 in. O.D.

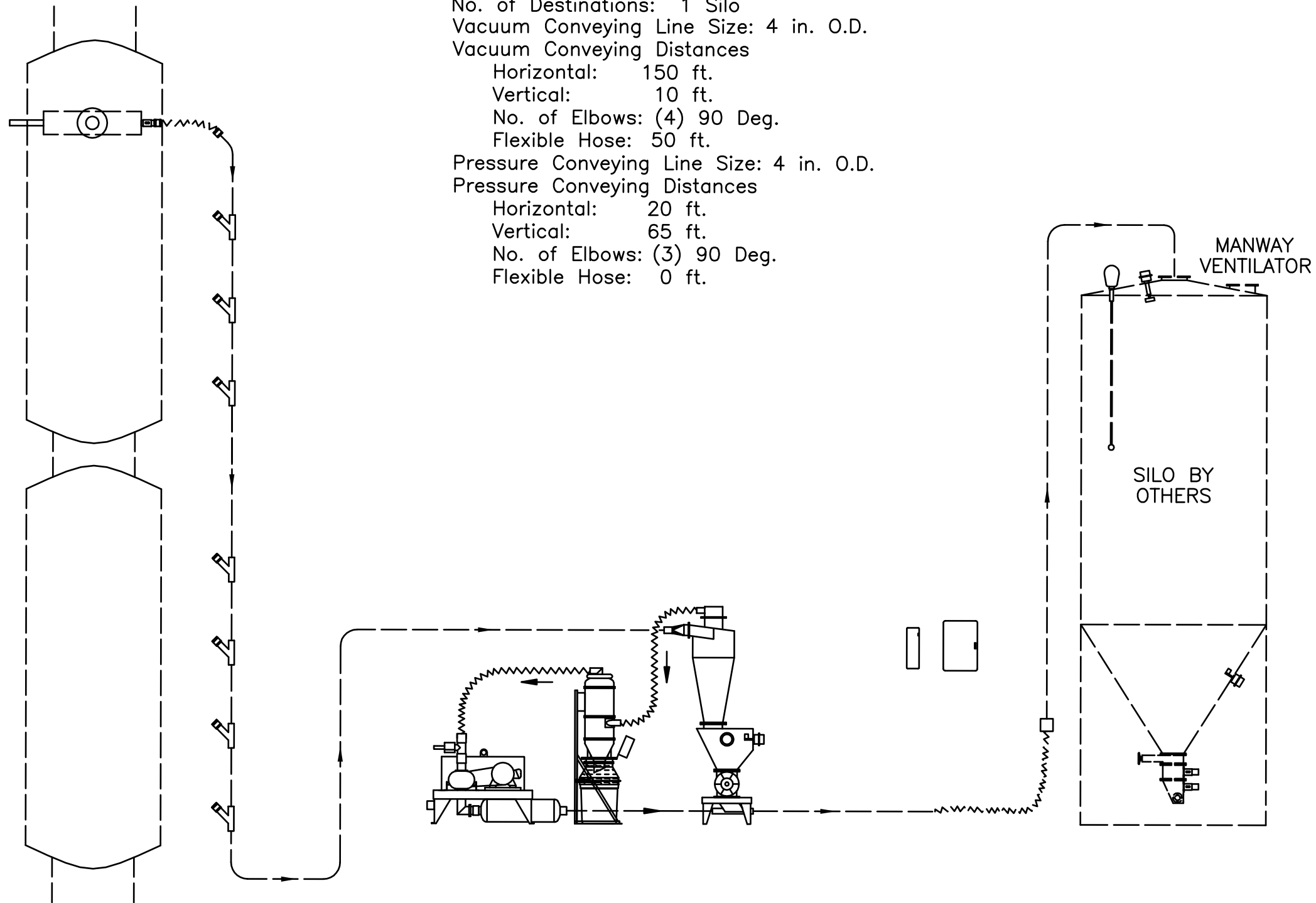
Pressure Conveying Distances

Horizontal: 20 ft.

Vertical: 65 ft.

No. of Elbows: (3) 90 Deg.

Flexible Hose: 0 ft.



Plastics Industry

This project was supplied to a company that makes Cross-Linked Polyethylene Compounds (PEX) for hot and cold potable water systems as well as the pipe products. They also make Cross-Linked Polyethylene Compounds (XLPE) for low voltage wire & cable products: For this project we provided them with a "Single Blower Vacuum / Pressure Rail Unloading System" to convey polypropylene pellets @ 10,000 to 12,000 lbs. / hr. from 1 of 2 railcars to one silo.

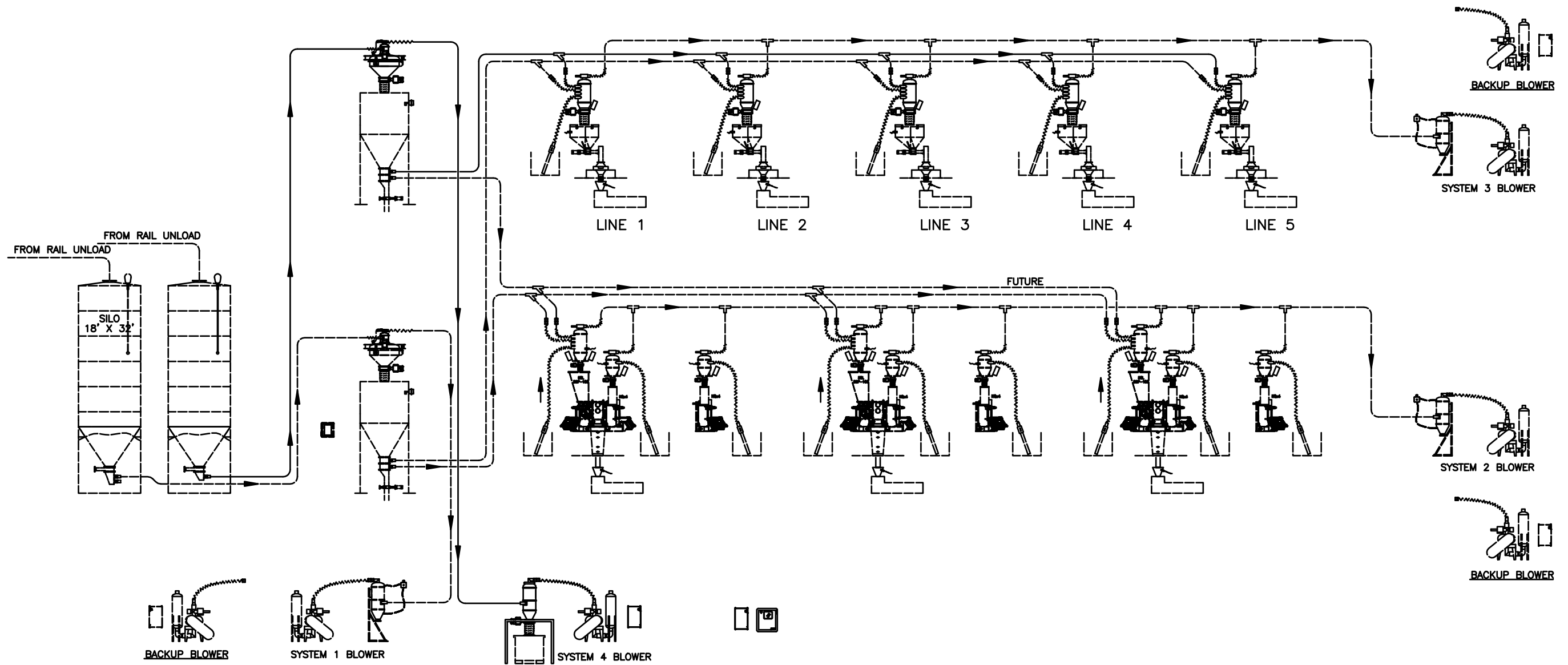


SYSTEM 03 PROFILE

System Type: VACUUM SEQUENCING
 Material: POLYPROPYLENE PELLETS
 Bulk Density: 35 LBS/CU. FT.
 Conveying Rate: 2,000 LBS./HR. (TOTAL)
 No. of Sources: 12
 No. of Destinations: 5
 Conveying Line Size: 2 IN. O.D.
 Conveying Distances
 Horizontal: 160 FT
 Vertical: 20 FT
 No. of Elbows: 4-90°
 Flexible Hose: 10 FT.

SYSTEM 04 PROFILE

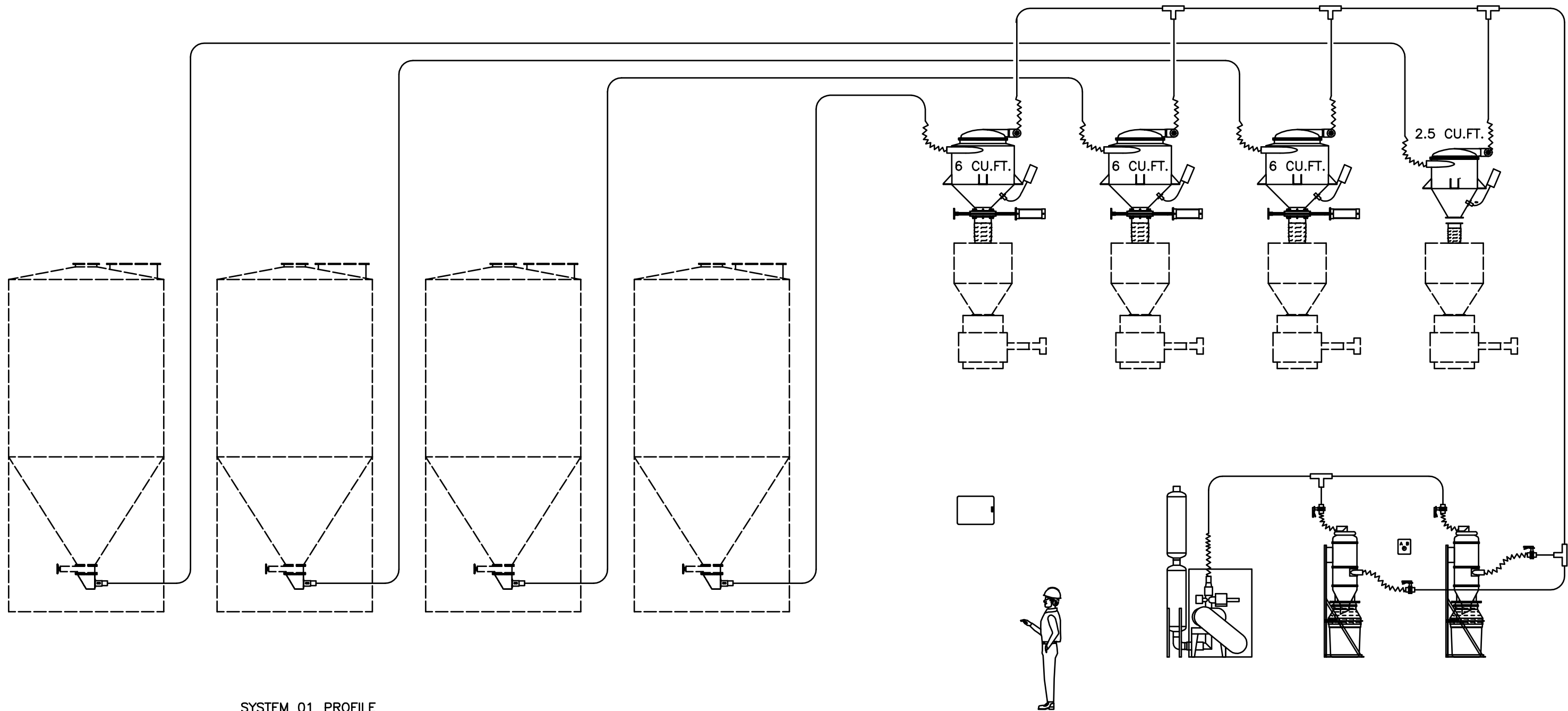
System Type: VACUUM SEQUENCING
 Material: POLYPROPYLENE PELLETS
 Bulk Density: 35 LBS/CU. FT.
 Conveying Rate: 3,000 LBS./HR. (TOTAL)
 No. of Sources: 1
 No. of Destinations: 1
 Conveying Line Size: 3 IN. O.D.
 Conveying Distances
 Horizontal: 450 FT.
 Vertical: 20 FT.
 No. of Elbows: 6-90°
 Flexible Hose: 10 FT.



Plastics Industry

This project was supplied to a plastics processor that produces breather mask filters and furnace filters. Polypropylene pellets are transferred from outside storage tanks by two vacuum sequencing systems to in plant use bins. The Pellet vacuum receivers are on scales to accumulate weight readings for inventory purposes. The material is transferred from the uses bins to keep various feeders full at process machines by vacuum sequencing systems. Each machine has either Prorate additive feeders or K-Tron LIW feeder to control the feed.





SYSTEM 01 PROFILE

System Type: 2400 Vacuum Sequencing
 Material: Polystyrene Pellets
 Bulk Density: 35-38 LBS./CU. FT.
 Required Conveying Rate: 3,250 LBS./HR.
 Design Conveying Rate: 4,250 LBS./HR.
 No. of Sources: 4
 No. of Destinations: 4
 Conveying Line Size: 3" OD

Horizontal: 150 FT.
 Vertical: 15 FT.
 No. of Elbows: 4-90 DEG.
 Flexible Hose: 30 FT.

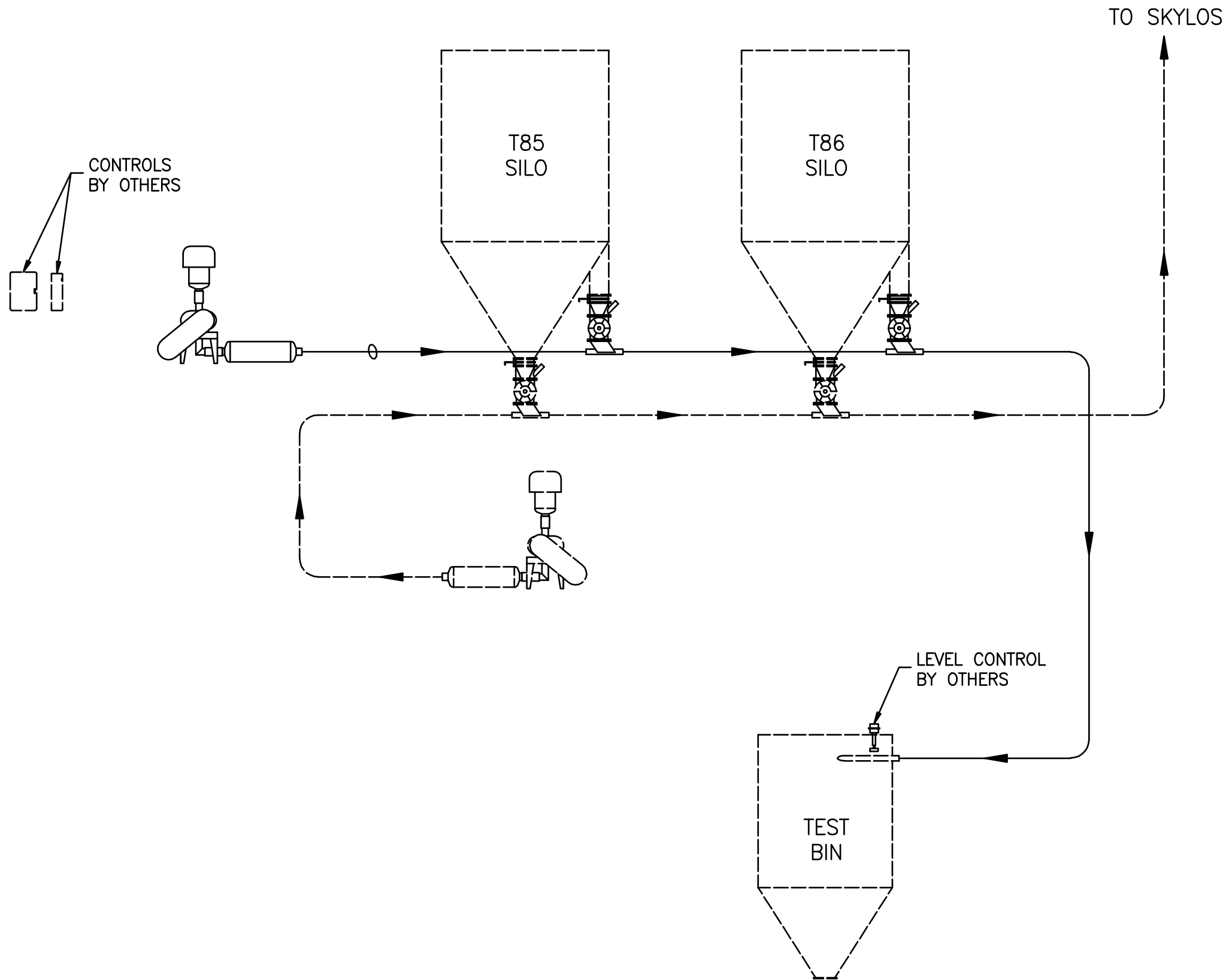
Plastics Industry

These were two identical systems supplied through an OEM. The system is a 2400 vacuum sequencing system consisting of five (5) 2400 receivers with slide gates designed to refill LIW feeders. System is designed to convey polystyrene virgin and recycle pellets at a total system rate of 3,500 PPH.



SYSTEM 01 PROFILE

System Type:	Pressure Transfer
Material:	Polystyrene Pellet
Bulk Density:	35 lbs./cu. ft.
Conveying Rate:	2,000 lbs./hr.
No. of Sources:	2
No. of Destinations:	1
Conveying Line Size:	2 in. O.D. Tube
Conveying Distances	
Horizontal:	310 ft.
Vertical:	25 ft.
No. of Elbows:	(4) 90°
Flexible Hose:	0 ft.



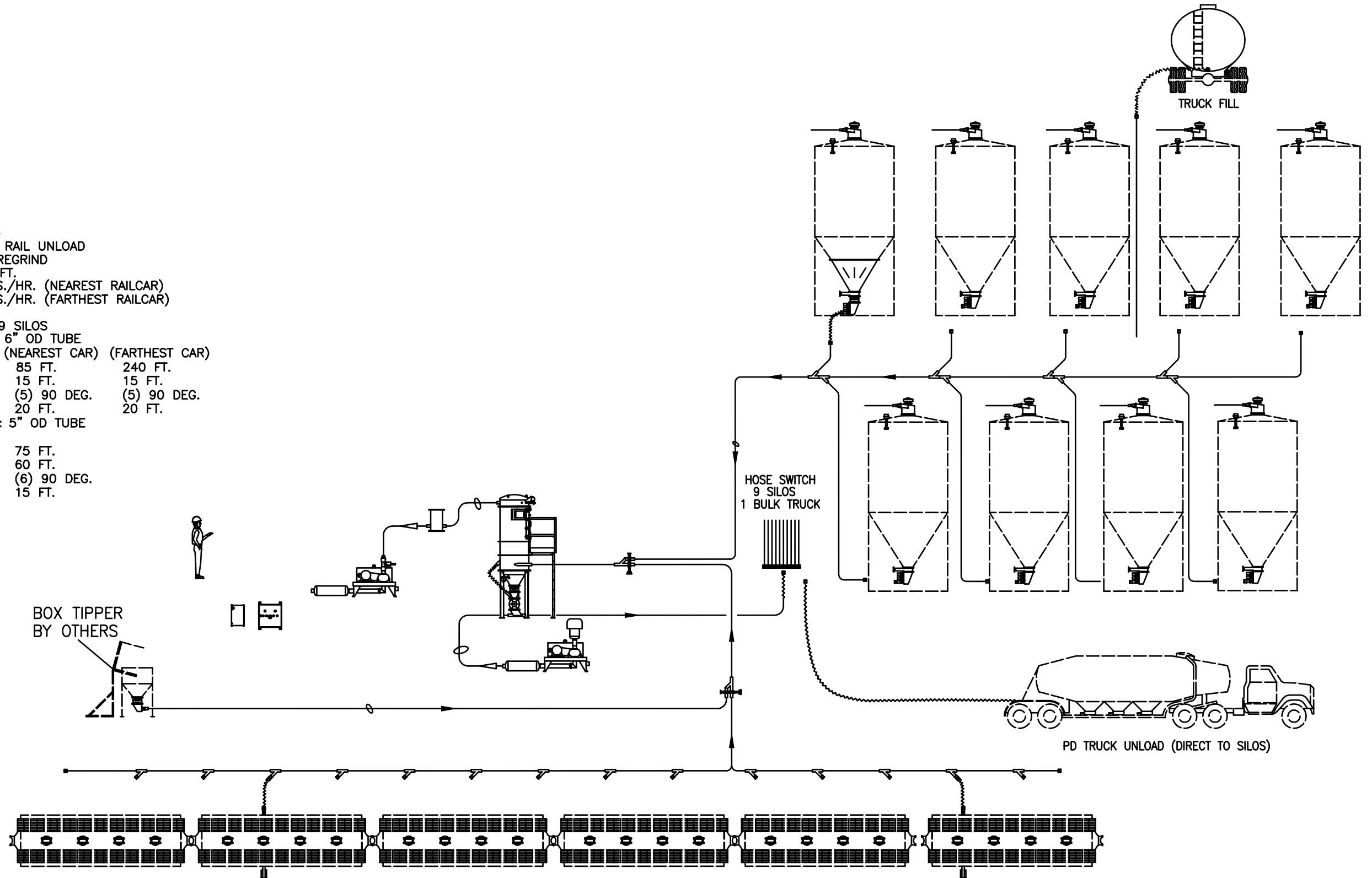
Plastics Industry

A plastic pellet producer needed a simple system to send a sample from a silo containing a batch run of material to a test bin. With the addition of a second discharge on the existing silo, we were able to provide a small pressure system to convey material from the batch silo to the test bin.



SYSTEM 01 PROFILE

System Type: DUAL BLOWER RAIL UNLOAD
 Material: PP PELLETS & REGRIND
 Bulk Density: 35 LBS./CU. FT.
 Conveying Rate: 35,000 LBS./HR. (NEAREST RAILCAR)
 20,000 LBS./HR. (FARTHEST RAILCAR)
 No. of Sources: 1
 No. of Destinations: 1 OF 9 SILOS
 Vacuum Conveying Line Size: 6" OD TUBE
 Vacuum Conveying Distances (NEAREST CAR) (FARTHEST CAR)
 Horizontal: 85 FT. 240 FT.
 Vertical: 15 FT. 15 FT.
 No. of Elbows: (5) 90 DEG. (5) 90 DEG.
 Flexible Hose: 20 FT. 20 FT.
 Pressure Conveying Line Size: 5" OD TUBE
 Pressure Conveying Distances
 Horizontal: 75 FT.
 Vertical: 60 FT.
 No. of Elbows: (6) 90 DEG.
 Flexible Hose: 15 FT.



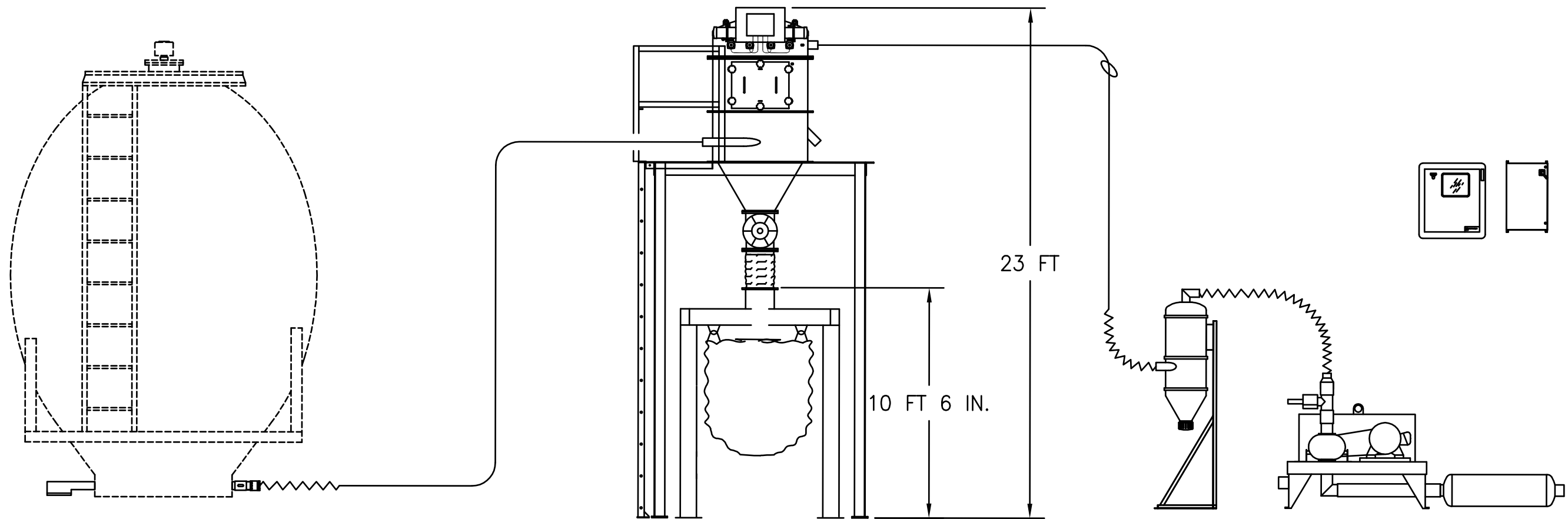
Plastics Industry

This system was provided to a corrugated plastic pipe extruder. They determined they could save money by receiving material by railcar rather than trucks. We provided a dual blower vacuum pressure system conveying plastic pellets from one of six railcars to one of nine silos. The system also had the ability to convey material to and from any of the nine silos. One of the silos included a Problend Zone Blender to help provide a homogenous blend of regrind and virgin pellets as the material passed through the silo.



SYSTEM 1 PROFILE

System Type: VACUUM
Material: PVC COMPOUND
Bulk Density: 35 LBS/CU. FT.
Conveying Rate: 20,000 LBS./HR.
No. of Sources: 1
No. of Destinations: 1
Conveying Line Size: 4" SCH.10
Conveying Distances
Horizontal: 25 FT.
Vertical: 20 FT.
No. of Elbows: (3) 90 DEG.
Flexible Hose: 10 FT.



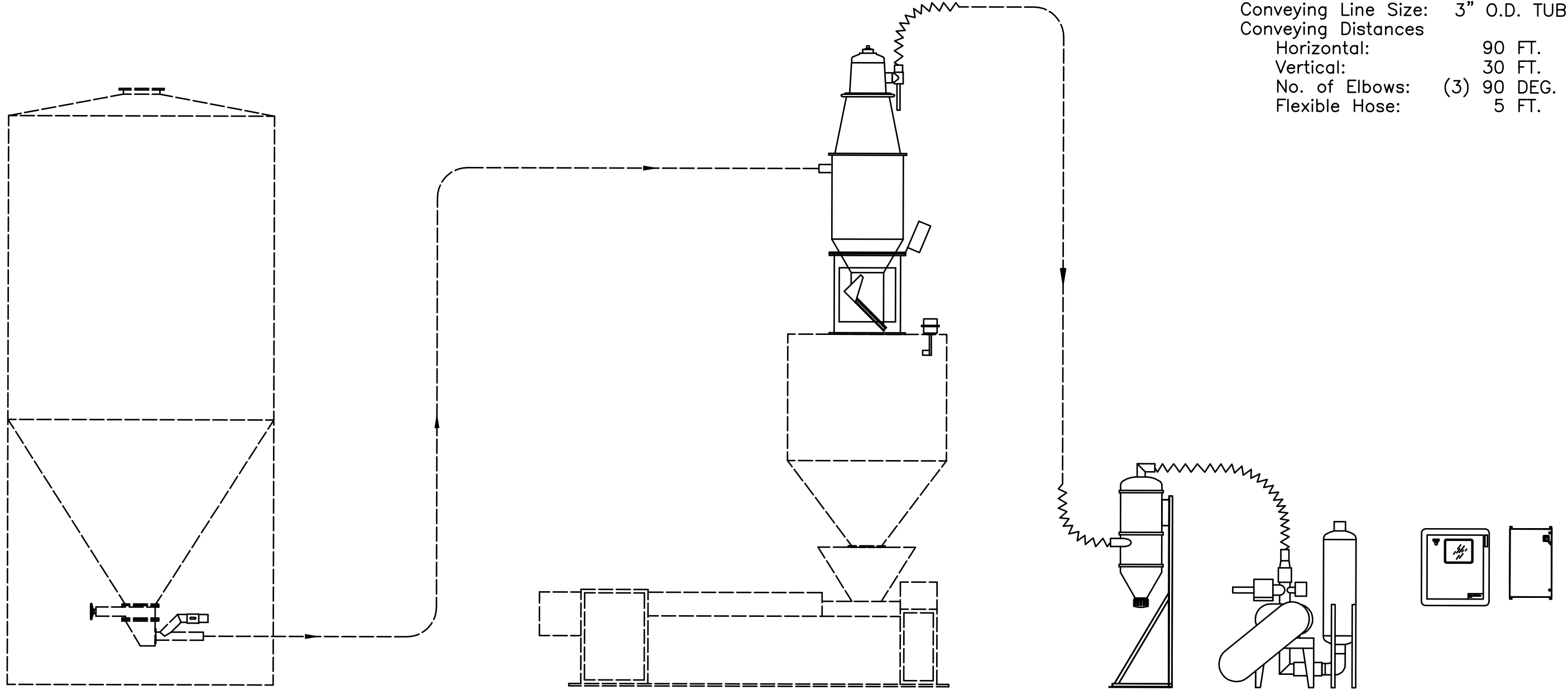
Plastics Industry

This project was supplied to a company that buys pellets and compounds in bulk then repackages and sells it in smaller quantities to other customers. The equipment we supplied on this project was a "Vacuum System" to convey PVC compound at a rate of 20,000 lbs. / hr. from a railcar to a custom made super sack filling station that we manufactured. The system was supplied complete with controls.



SYSTEM 1 PROFILE

System Type: VACUUM SEQUENCING
 Material: PVC COMPOUND
 Bulk Density: 37.7 LBS/CU. FT.
 Conveying Rate: 4000 LBS./HR.
 No. of Sources: 1
 No. of Destinations: 1
 Conveying Line Size: 3" O.D. TUBE
 Conveying Distances
 Horizontal: 90 FT.
 Vertical: 30 FT.
 No. of Elbows: (3) 90 DEG.
 Flexible Hose: 5 FT.



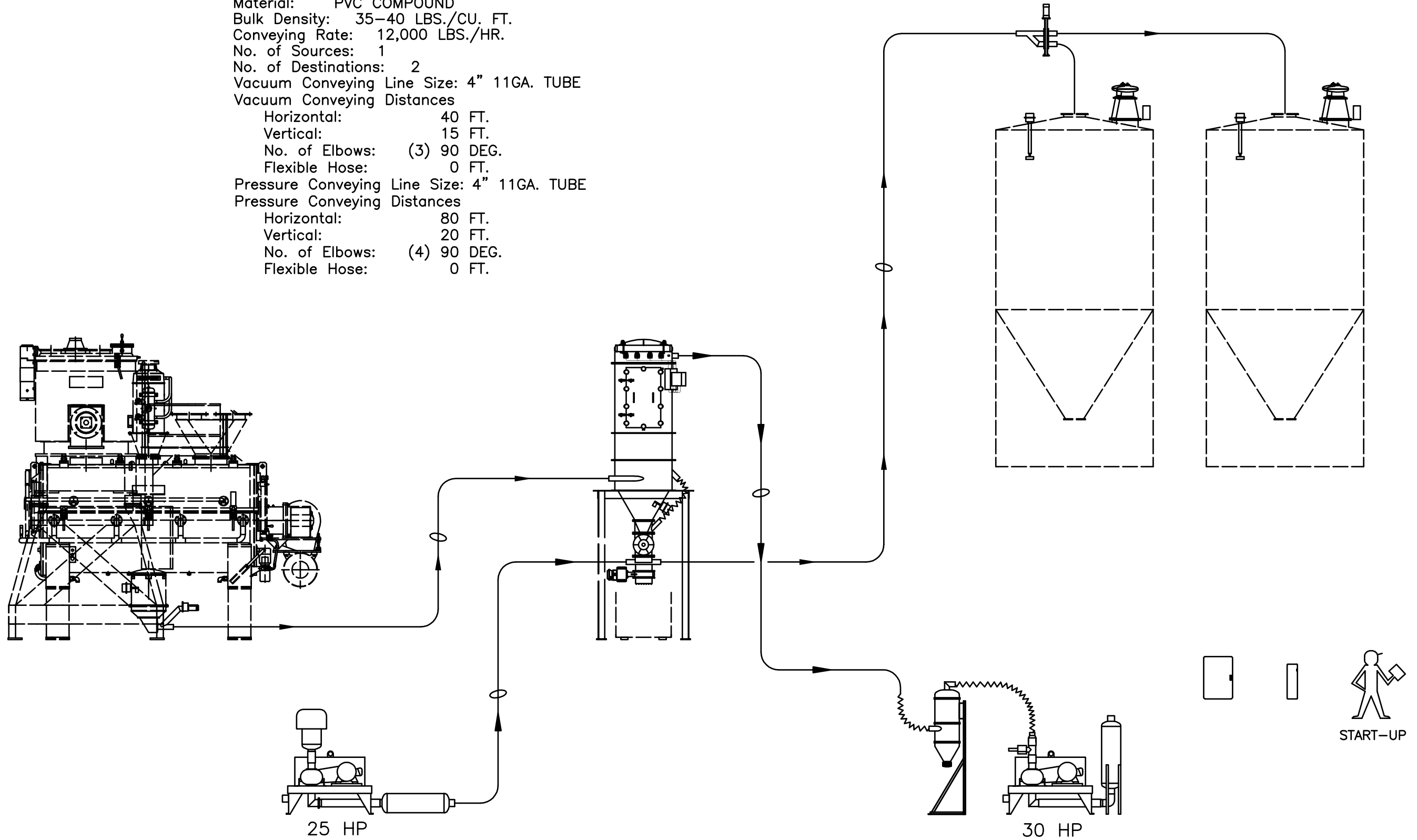
Plastics Industry

This project was for a PVC processor. It was a 3" 2423 vacuum sequencing system for loading PVC compounding into an extruder.



SYSTEM 01 PROFILE

System Type: VACUUM/PRESSURE
 Material: PVC COMPOUND
 Bulk Density: 35-40 LBS./CU. FT.
 Conveying Rate: 12,000 LBS./HR.
 No. of Sources: 1
 No. of Destinations: 2
 Vacuum Conveying Line Size: 4" 11GA. TUBE
 Vacuum Conveying Distances
 Horizontal: 40 FT.
 Vertical: 15 FT.
 No. of Elbows: (3) 90 DEG.
 Flexible Hose: 0 FT.
 Pressure Conveying Line Size: 4" 11GA. TUBE
 Pressure Conveying Distances
 Horizontal: 80 FT.
 Vertical: 20 FT.
 No. of Elbows: (4) 90 DEG.
 Flexible Hose: 0 FT.



Plastics Industry

This system is for a plastic processor of plastic card stock. The system is a vacuum and pressure system taking the PVC from the mixer into the silo.

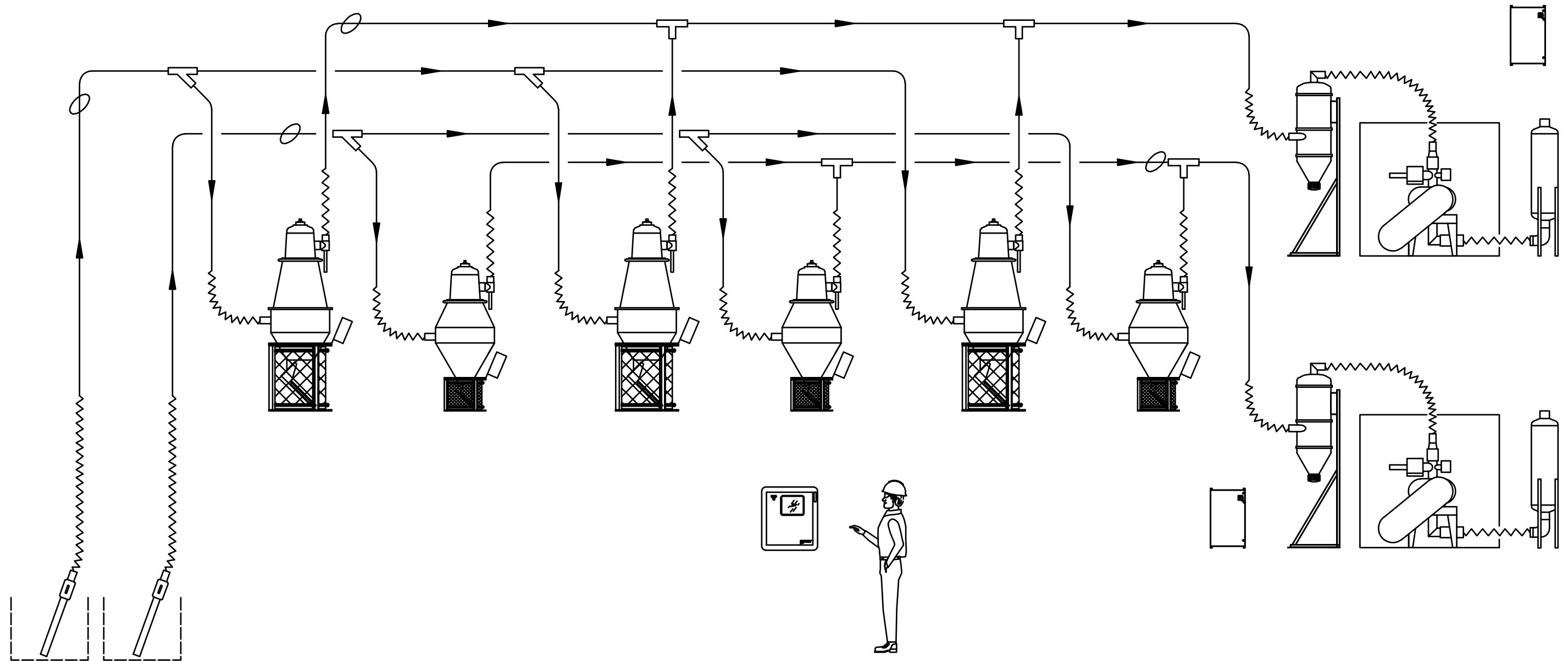


SYSTEM 01 PROFILE

System Type: 2400 VACUUM SEQUENCING
 Material: PVC COMPOUND
 Bulk Density: 36 LBS./CU. FT.
 Conveying Rate: 3300 LBS./HR.
 No. of Sources: 1
 No. of Destinations: 3
 Conveying Line Size: 3 IN. OD 11 GA.
 Conveying Distances **MAXIMUM**
 Horizontal: 170 FT.
 Vertical: 25 FT.
 No. of Elbows: (4) 90 DEG.
 Flexible Hose: 15 FT.

SYSTEM 02 PROFILE

System Type: 2400 VACUUM SEQUENCING
 Material: PVC COMPOUND
 Bulk Density: 36 LBS./CU. FT.
 Conveying Rate: 2380 LBS./HR.
 No. of Sources: 1
 No. of Destinations: 3
 Conveying Line Size: 2 IN. PIPE
 Conveying Distances **MAXIMUM**
 Horizontal: 170 FT.
 Vertical: 25 FT.
 No. of Elbows: (4) 90 DEG.
 Flexible Hose: 15 FT.



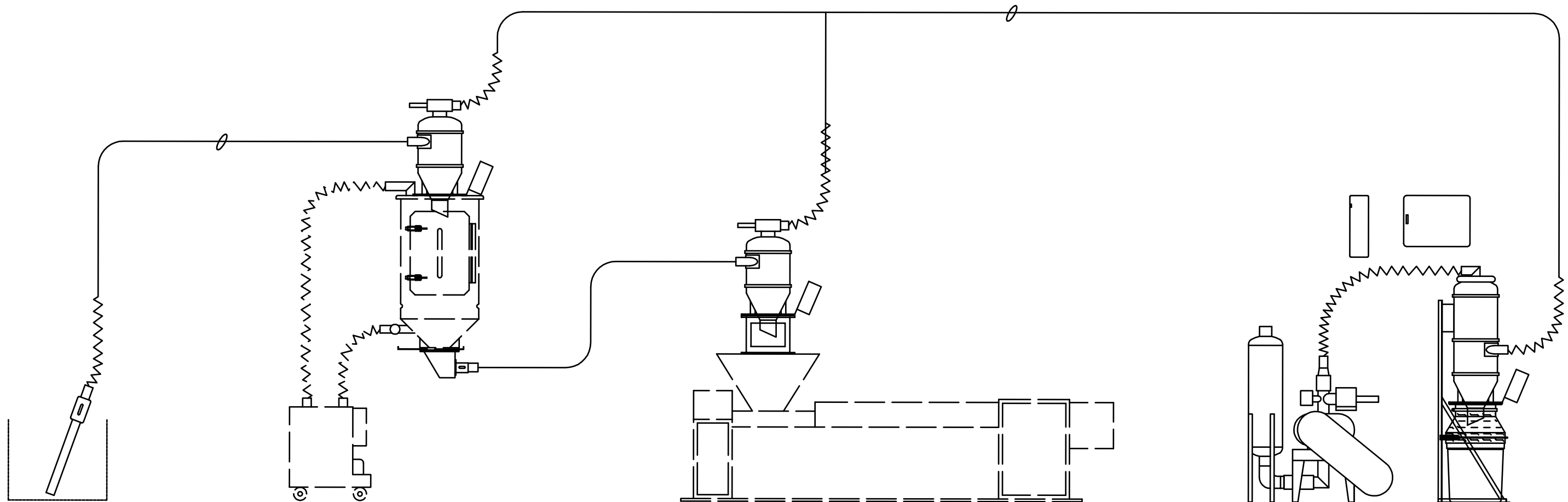
Plastics Industry

PVC compound receivers for production of decking. Three 2423 receivers refilling smart weigh belt 300's and three 2420 receivers filling surge hoppers.



SYSTEM 01 PROFILE

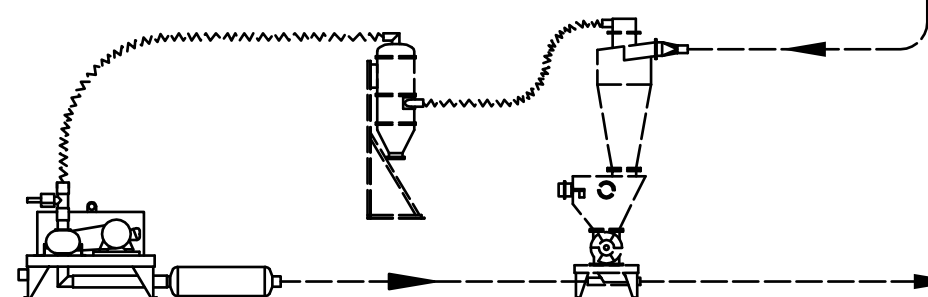
System Type:	SERIES 2400 VACUUM SEQUENCING
Material:	PVC PELLETS
Bulk Density:	45 LBS./CU. FT.
Required Conveying Rate:	2,400 LBS./HR.
No. of Sources:	2
No. of Destinations:	2
Conveying Line Size:	2" O.D. TUBE
Conveying Distances	
Horizontal:	20 FT.
Vertical:	20 FT.
No. of Elbows:	(2) 90 DEG.
Flexible Hose:	10 FT.



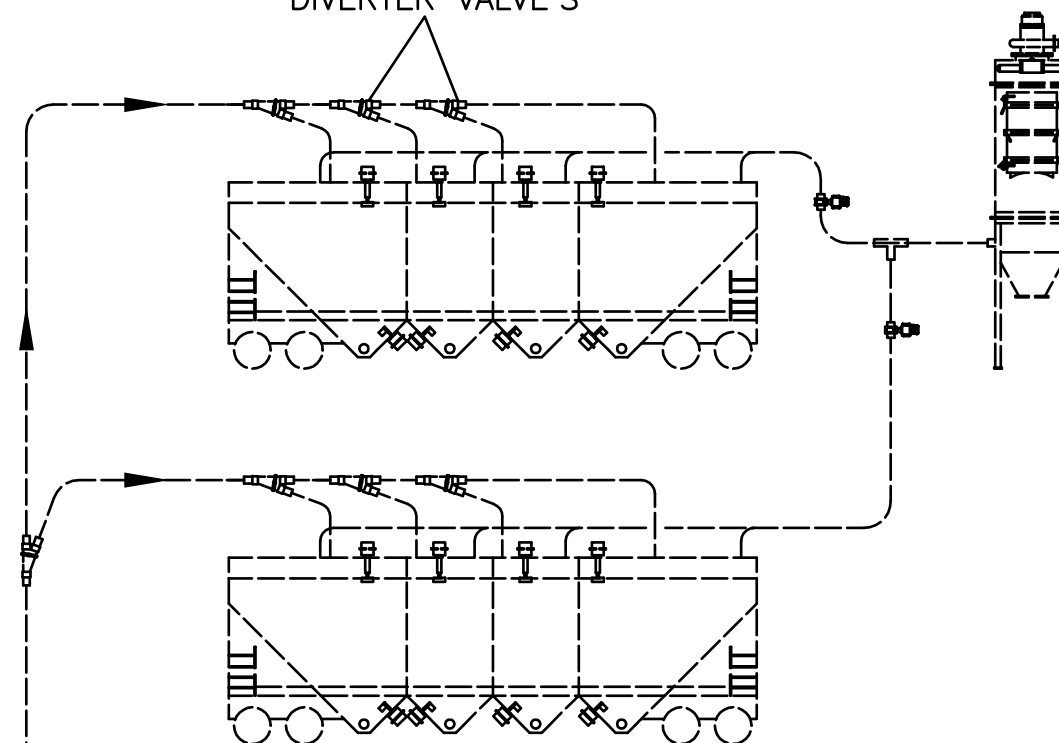
Plastics Industry

Material is being conveyed from a gaylord box to a receiver. The receiver discharges into a surge hopper for drying. The material is then conveyed to a receiver that discharges into an extruder.

MOTOR STARTER



EXISTING DIVERTER VALVE'S



SYSTEM 01 PROFILE

System Type: Vacuum – Pressure Rail Unload
 Material: PVC Pellets
 Bulk Density: 35 LBS./CU. FT.
 Conveying Rate: 10,000 LBS./HR.
 No. of Sources: 1
 No. of Destinations: 3
 Vacuum Conveying Line Size: 3 in. O.D. tube x 16 ga.
 Vacuum Conveying Distances
 Horizontal: 150 FT.
 Vertical: 10 FT.
 No. of Elbows: (3) 90 DEG.
 Flexible Hose: 15 FT.
 Pressure Conveying Line Size: 3 in. O.D. tube x 16 ga.
 Pressure Conveying Distances
 Horizontal: 60 FT.
 Vertical: 20 FT.
 No. of Elbows: (4) 90 DEG.
 Flexible Hose: 0 FT.

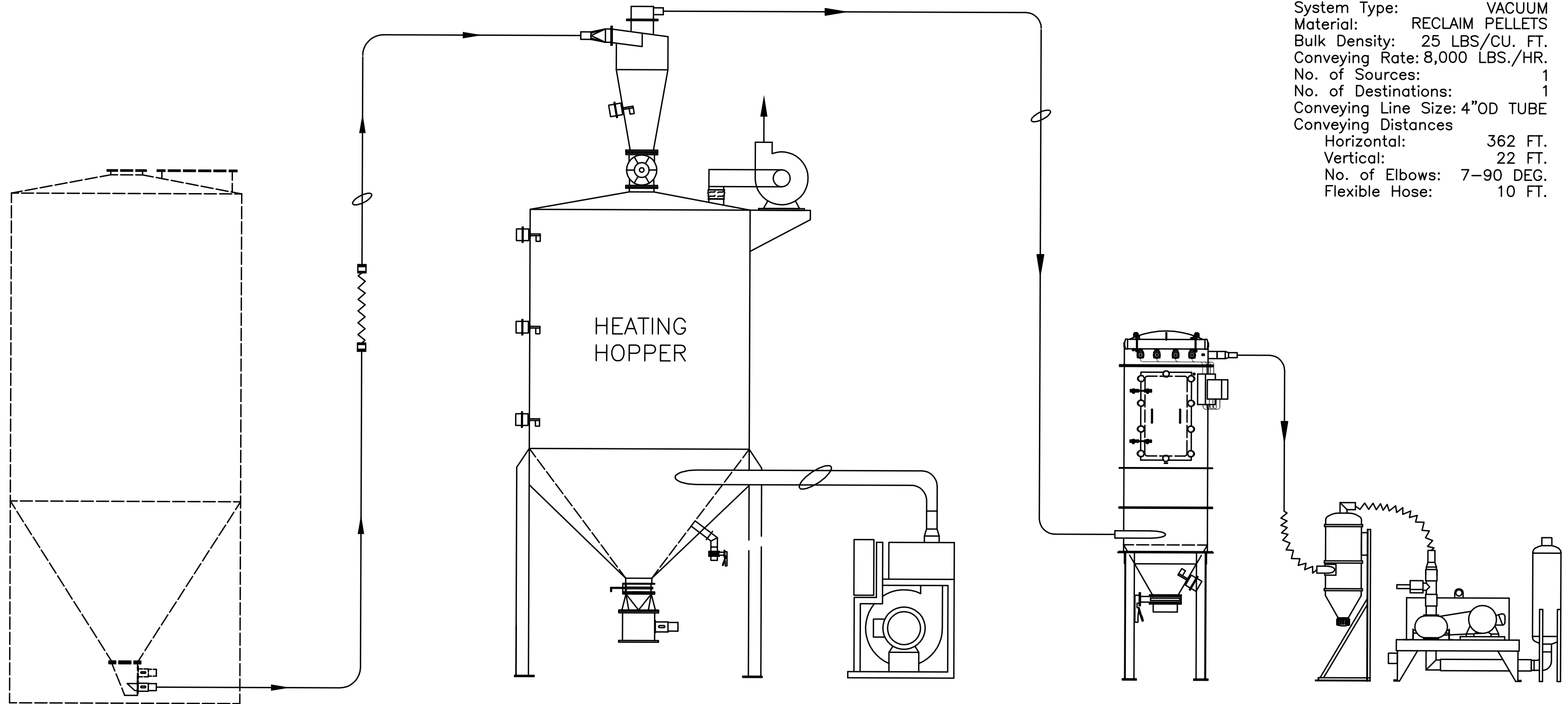
Plastics Industry

This system is for a petroleum refiner. The system utilizes vacuum to unload a railcar of pvc pellets on one side of the plant and pressure to load railcars in another location.



SYSTEM 01 PROFILE

System Type: VACUUM
Material: RECLAIM PELLETS
Bulk Density: 25 LBS/CU. FT.
Conveying Rate: 8,000 LBS./HR.
No. of Sources: 1
No. of Destinations: 1
Conveying Line Size: 4"OD TUBE
Conveying Distances
Horizontal: 362 FT.
Vertical: 22 FT.
No. of Elbows: 7-90 DEG.
Flexible Hose: 10 FT.



Plastics Industry

This project was supplied to a plastics processor. Reclaim pellets were vacuum conveyed to a heating hopper with hot air fan.



SYSTEM 5 PROFILE

System Type: VACUUM CONVEY
 Material: REGRIND.
 Bulk Density: 21 LBS/CU. FT.
 Conveying Rate: 7,500 LBS./HR.
 No. of Sources: 1
 No. of Destinations: 1
 Conveying Line Size: 4" O.D.
 Conveying Distances
 Horizontal: 25 FT.
 Vertical: 30 FT.
 No. of Elbows: (3) 90 DEG.
 Flexible Hose: 0 FT.

SYSTEM 6 PROFILE

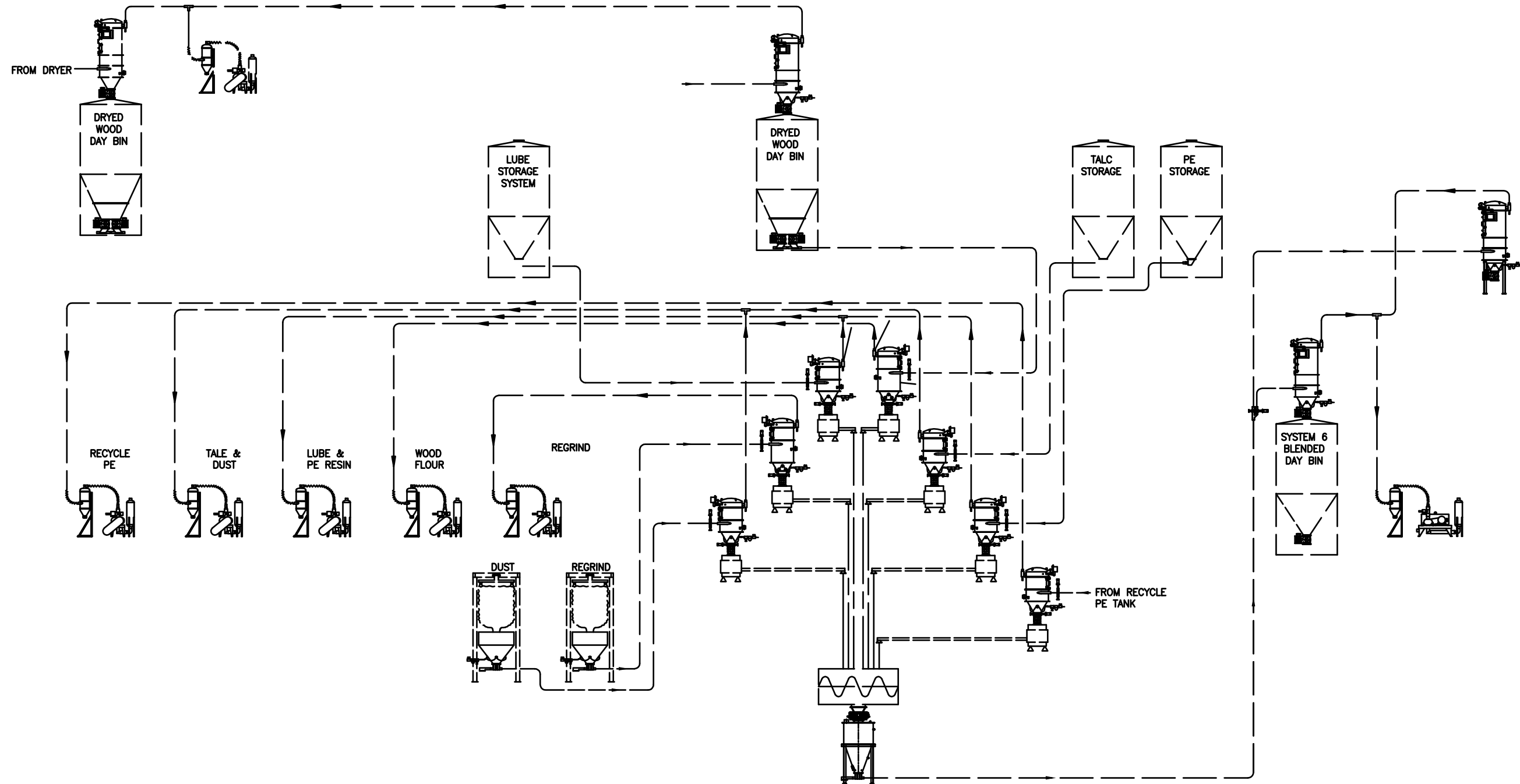
System Type: VACUUM TRANSFER
 Material: LUBE SND PE RESIN
 Bulk Density: 49 LBS/CU. FT.
 Conveying Rate: 5,500 LBS./HR.
 No. of Sources: 2
 No. of Destinations: 2
 Conveying Line Size: 3" OD
 Conveying Distances
 Horizontal: 70 FT.
 Vertical: 40 FT.
 No. of Elbows: (3) 90 DEG.
 Flexible Hose: 0 FT.

SYSTEM 7 PROFILE

System Type: VACUUM TRANSFER
 Material: TALC AND DUST
 Bulk Density: 28 LBS/CU. FT. & 12 LBS/CU. FT.
 Conveying Rate: 5,500 LBS./HR.
 No. of Sources: 2
 No. of Destinations: 2
 Conveying Line Size: 3" O.D.
 Conveying Distances
 Horizontal: 70 FT.
 Vertical: 40 FT.
 No. of Elbows: (3) 90 DEG.
 Flexible Hose: 0 FT.

SYSTEM 8 PROFILE

System Type: VACUUM TRANSFER
 Material: RECYCLED PE
 Bulk Density: 20-24 LBS/CU. FT.
 Conveying Rate: 5,000 LBS./HR. CONTINUOUS
 No. of Sources: 1
 No. of Destinations: 1
 Conveying Line Size: 3" O.D.
 Conveying Distances
 Horizontal: 60 FT.
 Vertical: 40 FT.
 No. of Elbows: (3) 90 DEG.
 Flexible Hose: 0 FT.



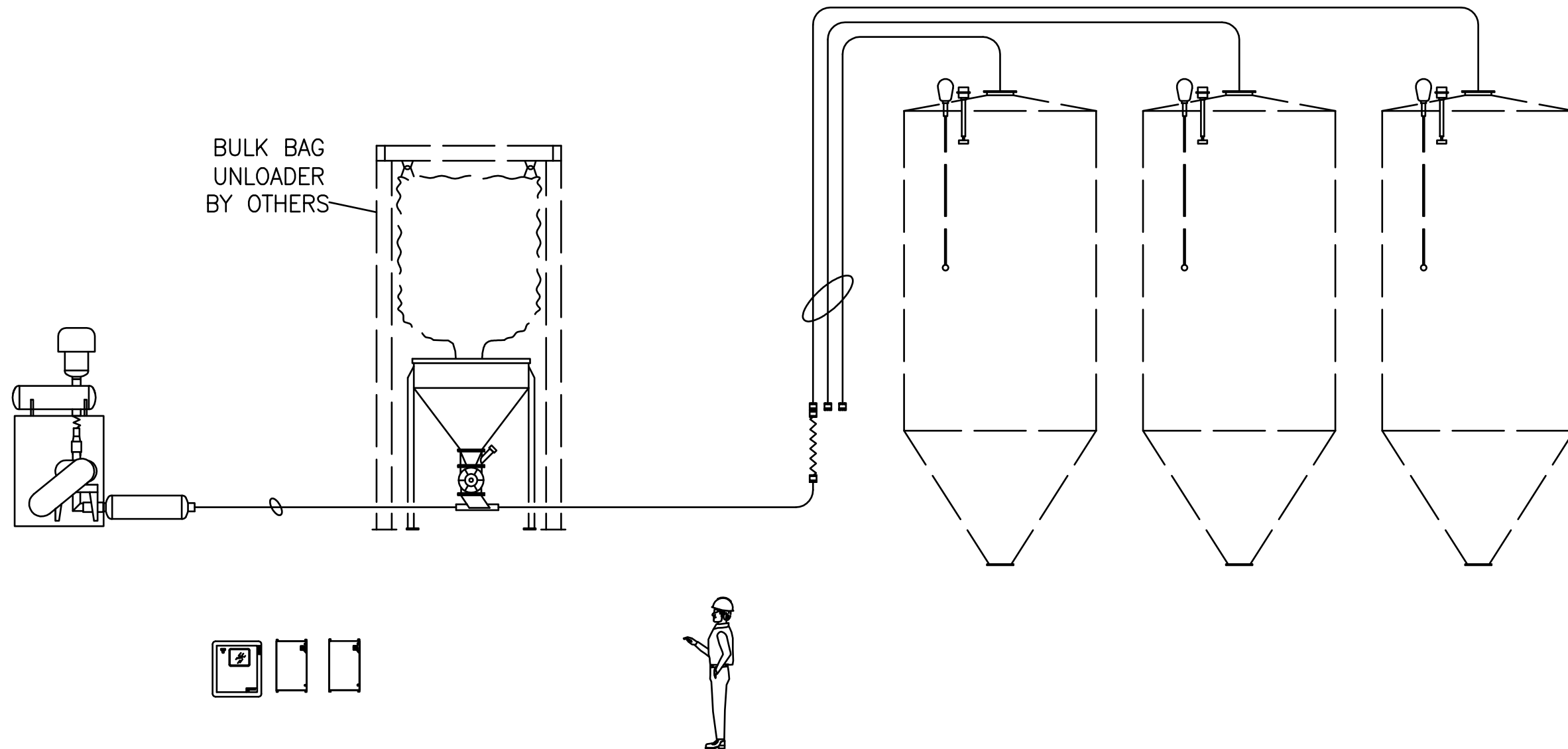
Plastics Industry

This system was provided for a manufacturer of composite decking. We supplied multiple 2400 vacuum sequencing systems designed to convey various powders for refill of feeders in batch mixing operation. Also provided were vacuum conveying systems to transfer blended compound to plant day bins.



SYSTEM 01 PROFILE

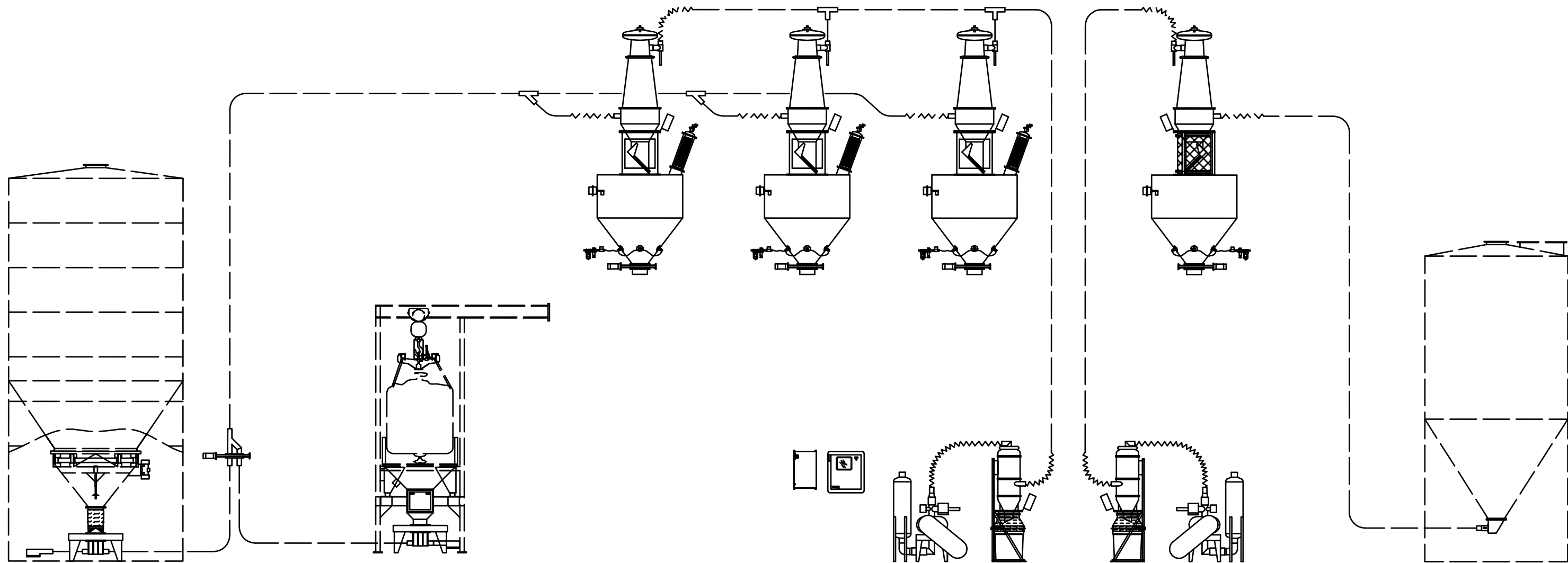
System Type: PRESSURE TRANSFER
Material: RESIN PELLETS
Bulk Density: 30 LBS./CU. FT.
Conveying Rate: 12,000 LBS./HR.
No. of Sources: 1
No. of Destinations: 1 OF 3 SILOS
Conveying Line Size: 3" OD TUBE
Conveying Distances
Horizontal: 60 FT.
Vertical: 35 FT.
No. of Elbows: (7) 90 DEG.
Flexible Hose: 10 FT.



Plastics Industry

This is a plant that manufactures poly bags for the automotive industry. This system was installed to feed bulk bags of plastic pellets into three (3) different silos. Because of the location of these silos, (close to new housing development) the customer could not unload trucks outside due to the noise. The customer does have an enclosed, truck unload station at the other end of the plant that fills 12 silos. They needed to empty bags as fast as possible into silos. The rate was 12,000 lb/hour.





SYSTEM 01 PROFILE

System Type: 2400 VACUUM SEQUENCING
 Material: TALC AND CaCO₃
 Bulk Density: 28-35 LBS./CU. FT.
 Conveying Rate: 2000 LBS./HR.
 No. of Sources: 2
 No. of Destinations: 3
 Conveying Line Size: 3" OD TUBE
 Conveying Distances
 Horizontal: 200 FT.
 Vertical: 40 FT.
 No. of Elbows: (5) 90 DEG.
 Flexible Hose: 5 FT.

SYSTEM 02 PROFILE

System Type: 2400 VACUUM SEQUENCING
 Material: PE PELLETS
 Bulk Density: 35 LBS./CU. FT.
 Conveying Rate: 2000 LBS./HR.
 No. of Sources: 1
 No. of Destinations: 1
 Conveying Line Size: 3" OD TUBE
 Conveying Distances
 Horizontal: 200 FT.
 Vertical: 40 FT.
 No. of Elbows: (5) 90 DEG.
 Flexible Hose: 5 FT.

Plastics Industry

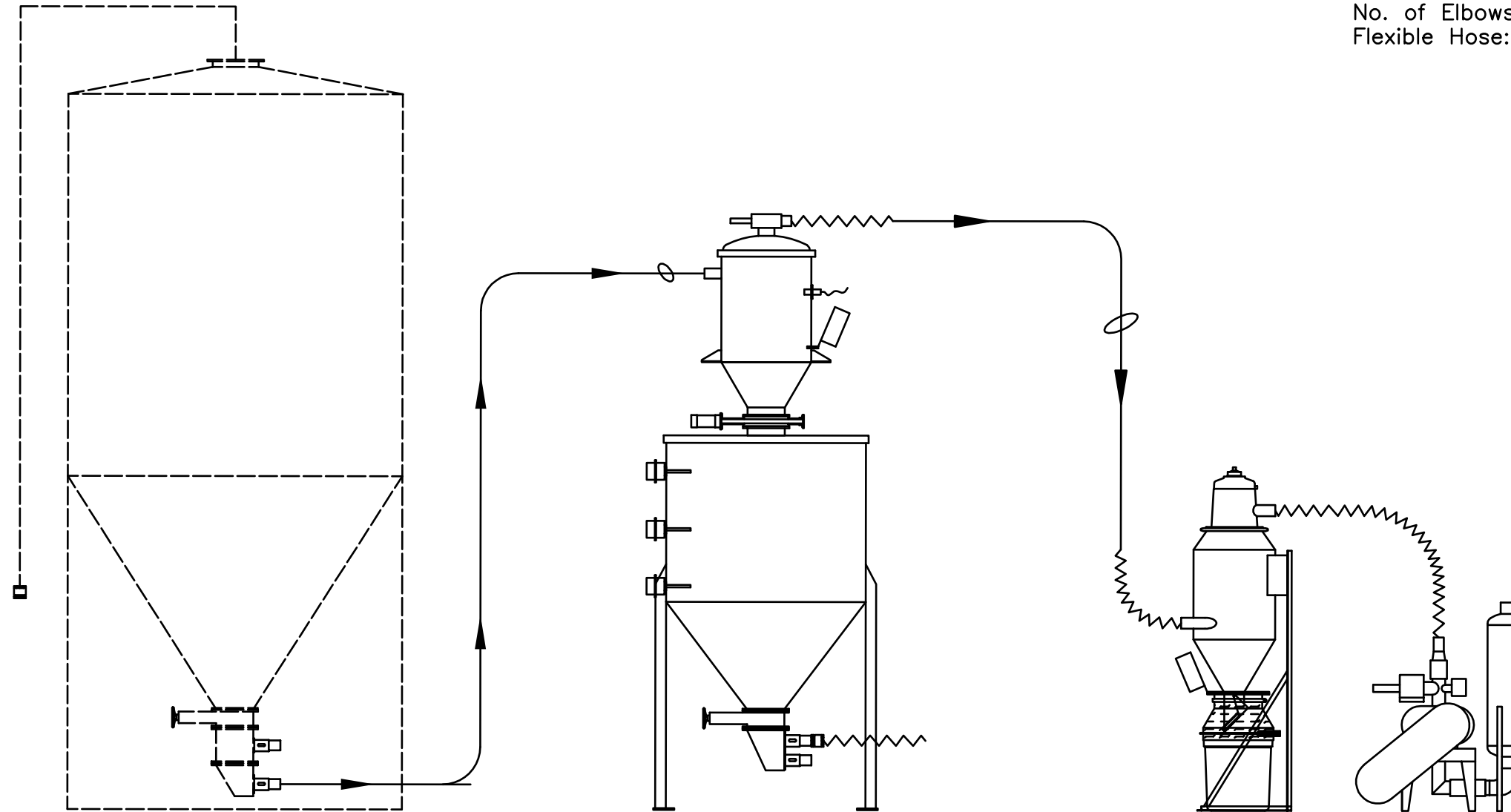
K-Tron Process Group provided this system to a plastic compounder that produced high fill polyethylene pellets. This project included two 2400 vacuum systems, one was designed to convey calcium carbonate and talc from silos or bulk bags to loss-in-weight feeders above an extruder. The second system was designed to convey polyethylene pellets from a silo or boxes to a loss-in-weight feeder.

The powder receivers included an oversized accumulator and extended filter cartridge, which increased the filtering ability of the receiver.



SYSTEM 01 PROFILE

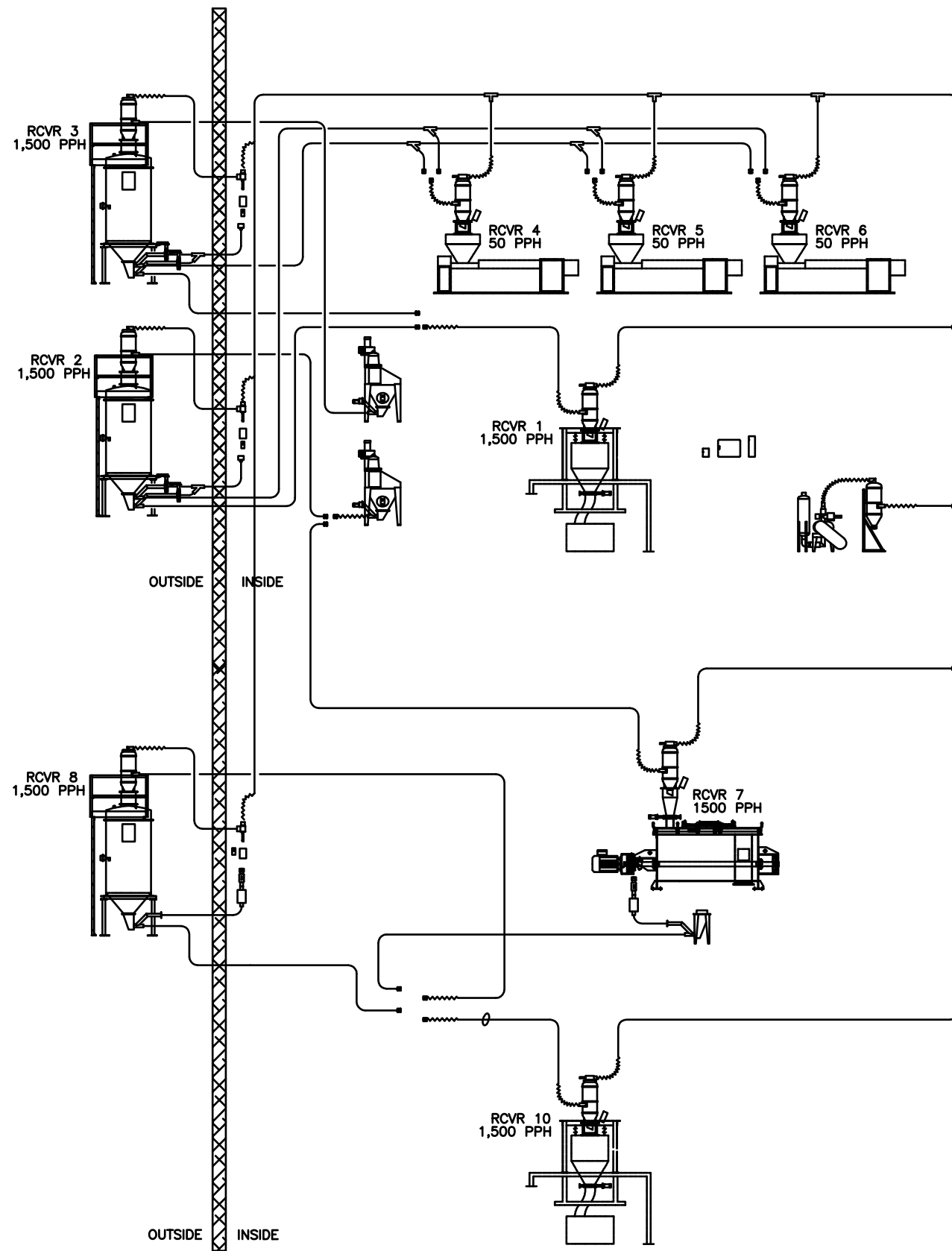
System Type: VACUUM SEQUENCING
Material: TiO2 PELLETS
Bulk Density: 55 LBS./CU. FT.
Conveying Rate: 2000 LBS./HR.
No. of Sources: 1
No. of Destinations: 1
Conveying Line Size: 4" OD TUBE
Conveying Distances
Horizontal: 600 FT.
Vertical: 60 FT.
No. of Elbows: (15) 90 DEG. (4) 45 DEG.
Flexible Hose: 0 FT.



Plastics Industry

This project was supplied to a plastics processor. TiO2 pellets were transferred by a 4" vacuum sequencing system to process use bin on a keep full basis.





SYSTEM 01 PROFILE

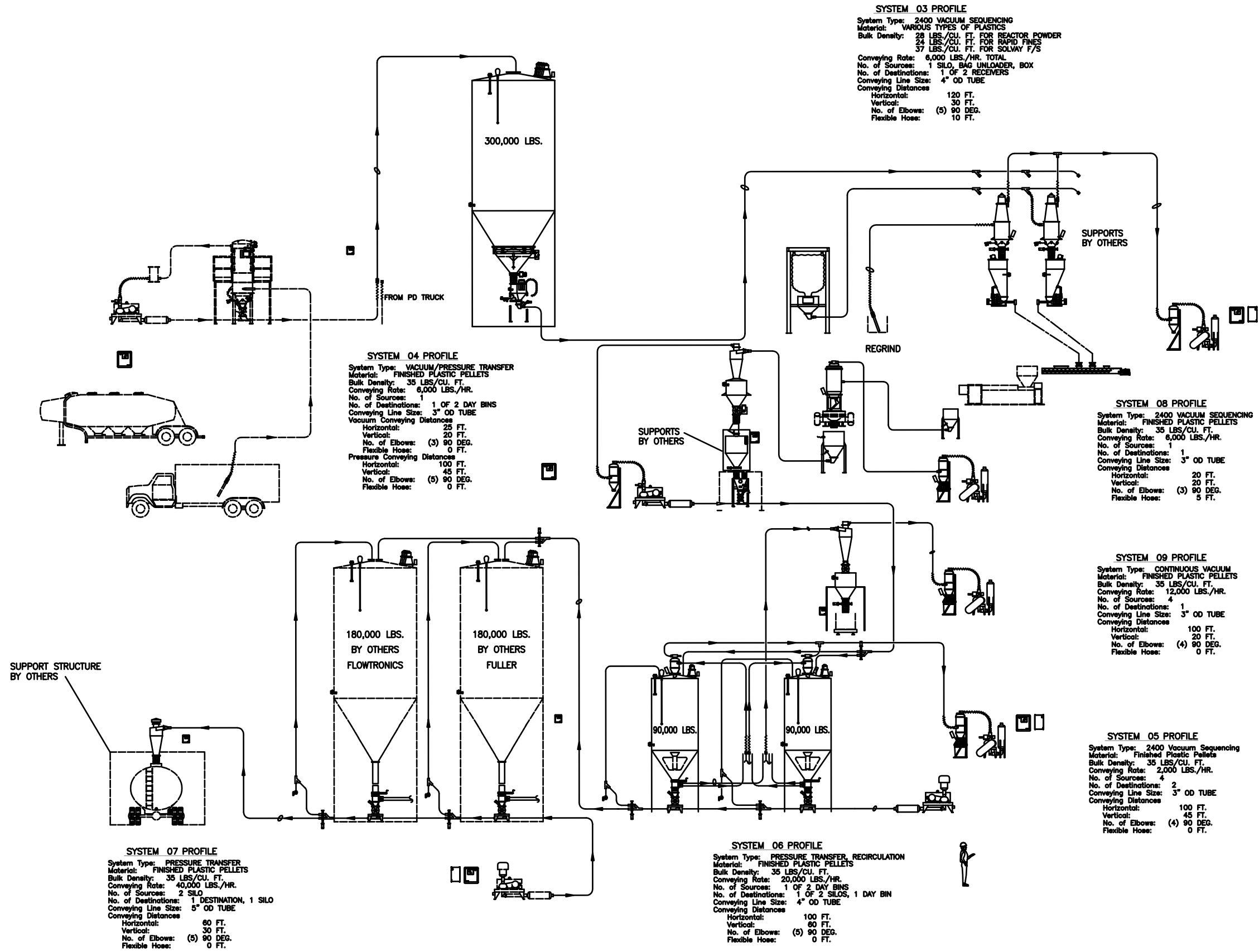
System Type:	2400 Vacuum Sequencing									
Material:	UHMW PE Powder									
Bulk Density:	35 LBS./CU. FT.									
Conveying Rate:	4,700 LBS./HR.									
System Capacity: Approximately	5,000 LBS./HR.									
Conveying Line Size:	3 in. OD Tube									
Conveying Profile:	Rcvr 1	Rcvr 2	Rcvr 3	Rcvr 4	Rcvr 5	Rcvr 6	Future 7	Rcvr 8	Rcvr 9	Future 10
Capacity (LBS./HR.)	1,500	1,500	1,500	50	50	50	1500	1500	1500	1500
Horizontal: FT.	110	30	30	30	40	50	60	40	50	60
Vertical: FT.	15	15	15	15	15	15	15	15	15	15
No. of Elbows: (90) DEG.	6	3	3	4	4	4	4	4	4	4
Flexible Hose: FT.	5	5	5	5	5	5	5	5	5	5



Plastics Industry

This company manufactures medical grade UHMW PE. This system was an addition to an existing PPI 2400 system. It utilizes 2415 receivers to transfer UHMW PE resin from bag dump stations to a mixer, press or extruders. Also included are small day bins with explosion vents for in process storage of material.

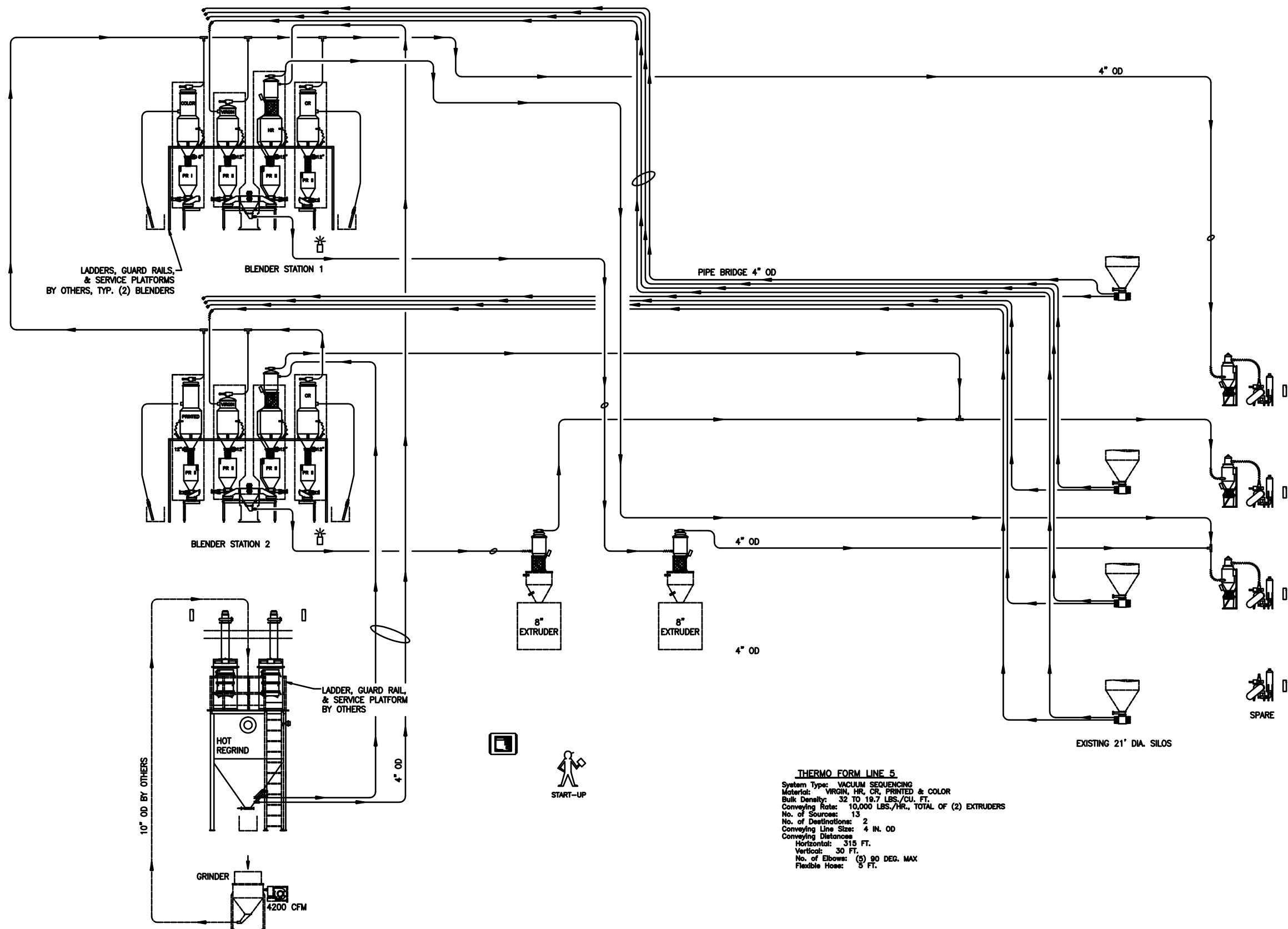




Plastics Industry

This project was supplied to a Plastics recycler. The recycler receives plastics in any form and grinds, cleans and repelletizes it for resale back to the customer. A vacuum-pressure unloading system was provided to unload various powders and regrinds from customer trucks to a large storage tank. The tank also accepts product from PD trucks. There were multiple in plant vacuum sequencing systems provided to move product throughout various stages of the process including K-Tron LIW feeders to meter specific feed rates into the throat of the extruder. After the product was repelletized it was transferred by pressure to two new in plant storage tanks with Problend Zone blenders to mix the product to the required blend. The system can also transfer to a Gaylord box loading station. Then the product is transferred to larger outside storage tanks for additional blending by pressure. Finally there is a pressure system provided to both load the product in to PD delivery truck or to assist with the blending in the outside tanks.

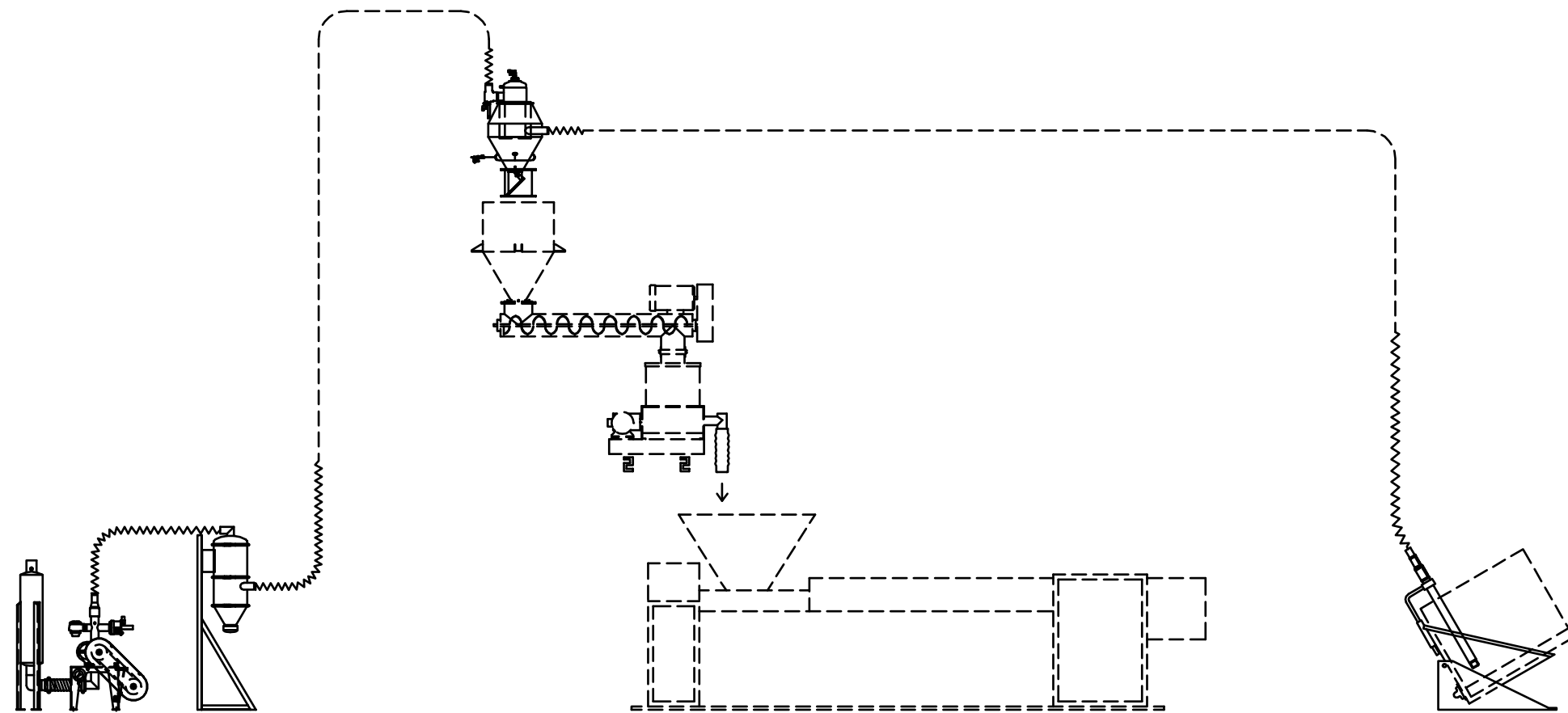




Plastics Industry

This project was for a plastics cup manufacturer. The project involved multiple 4" vacuum sequencing systems and gravimetric blending equipment to move polypropylene pellets, regrinds, and color additives to customers co-extruders used in cup production. All the regrind was stored in a central hopper with dust collection feed by fan system from grinders.





SYSTEM PROFILE

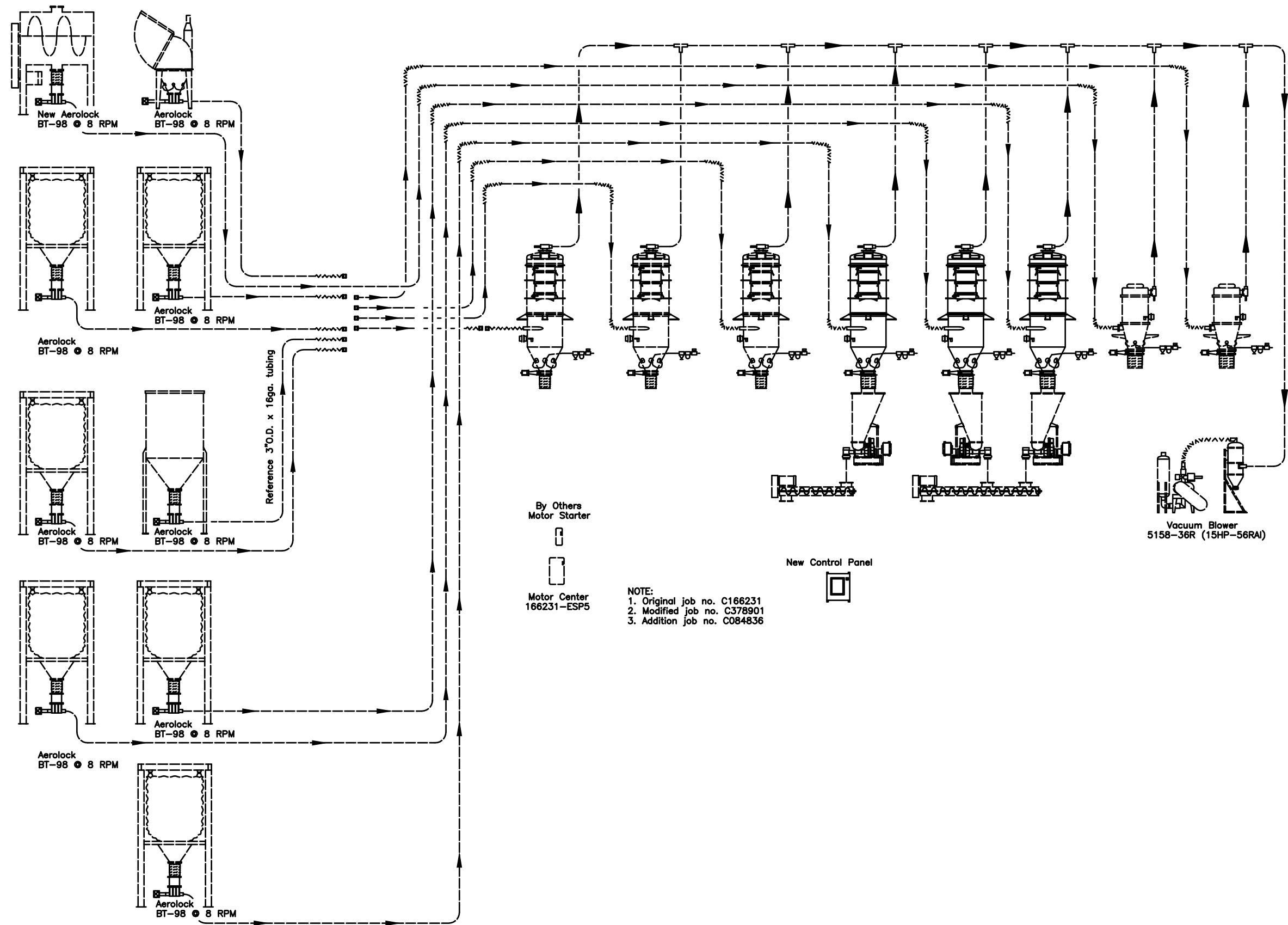
System type: Series³ 2400 Vacuum Sequencing
 System capacity: 1,000 lbs./hr.
 Material: V5B012 (CaCo³ and Talc Powder Blend)
 Bulk density: 34.03 lbs./cu.ft.
 Convey line size: 3" O.D.
 Air line size: 3" O.D.
 Horizontal distance: 50 ft.
 Vertical distance: 20 ft.
 Hose distance: 15 ft.
 90° Elbows: (4)



Plastics Industry

Material is being conveyed to a receiver from a gaylord box on a tip station. The receiver discharges into a screw conveyor that is refilling a loss-in-weight feeder. The feeder then discharges into an extruder.

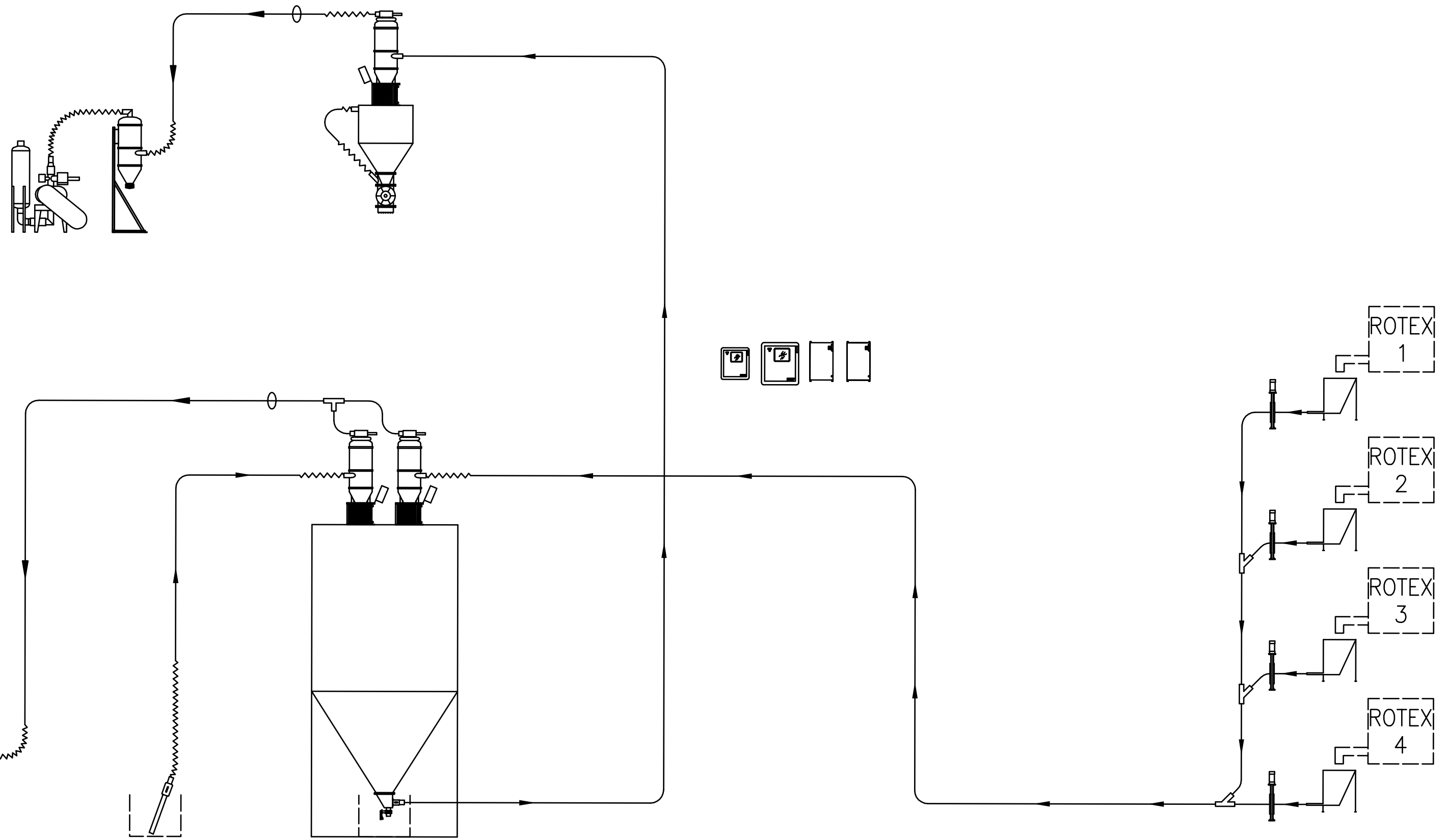




Plastics Industry

This project was supplied to a wood composite manufacturer. It uses pneumatics and feeders, combining new and existing equipment. Material is conveyed from bulk bags, a mixer, and a bag dump to filter receivers. The receivers refill the feeders which empty into transfer screw conveyors.

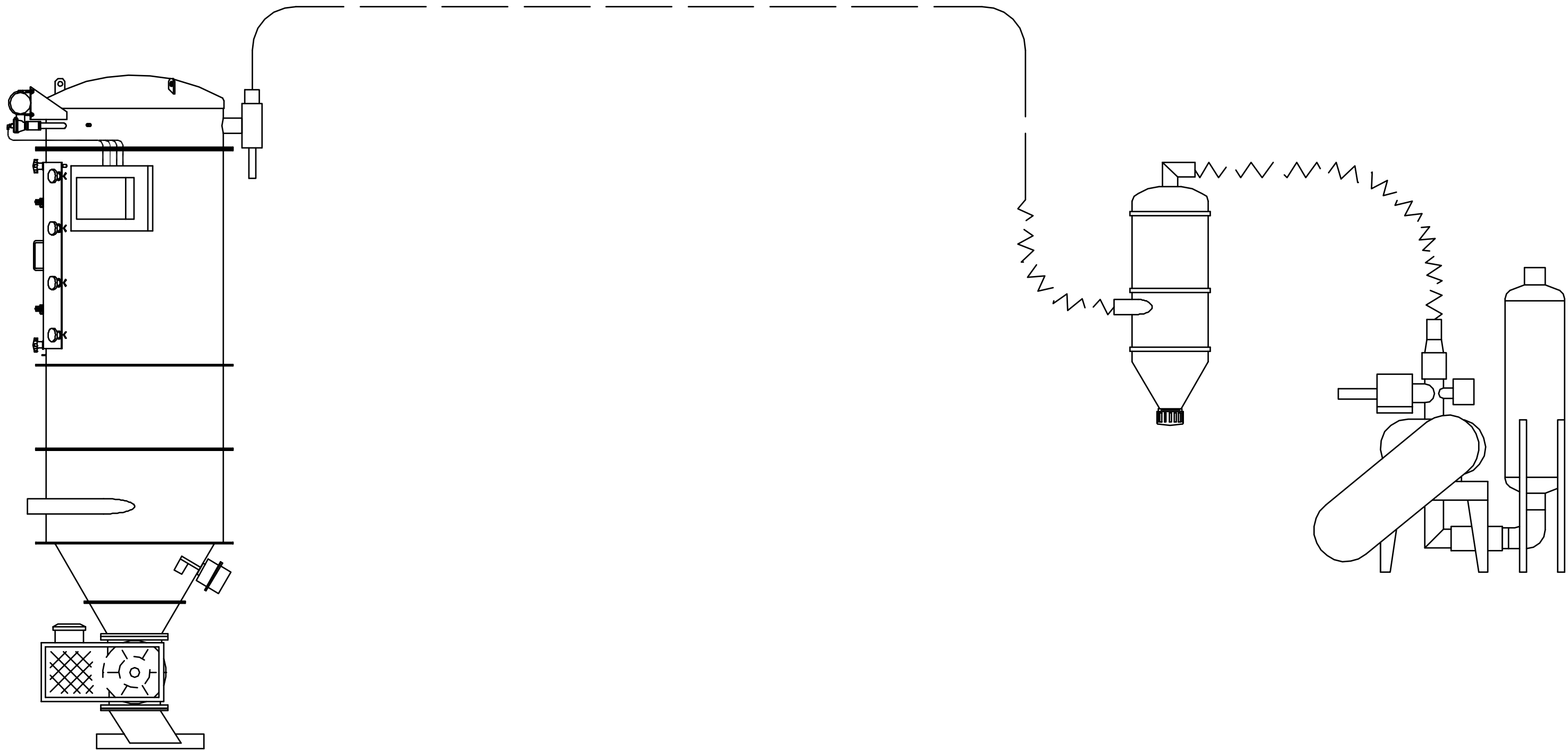




Plastics Industry

This project was supplied to a polystyrene producer for one of their specialty compounding plants. The styrene pellets were conveyed from four screeners, the PLC program was designed to sequence from source to source. The source sequencing allowed us to use our 2400 vacuum system and keep up with their continuous process. The pellets were conveyed from the screener to a storage silo. A second system was supplied to convey the material from the silo to a hopper above the reactor; K-Tron Process Group used an Aerolock with variable speed drive to meter the material into the reactor. Due to the environment we provided the Aerolock with an aluminum rotor to eliminate the risk of sparking.

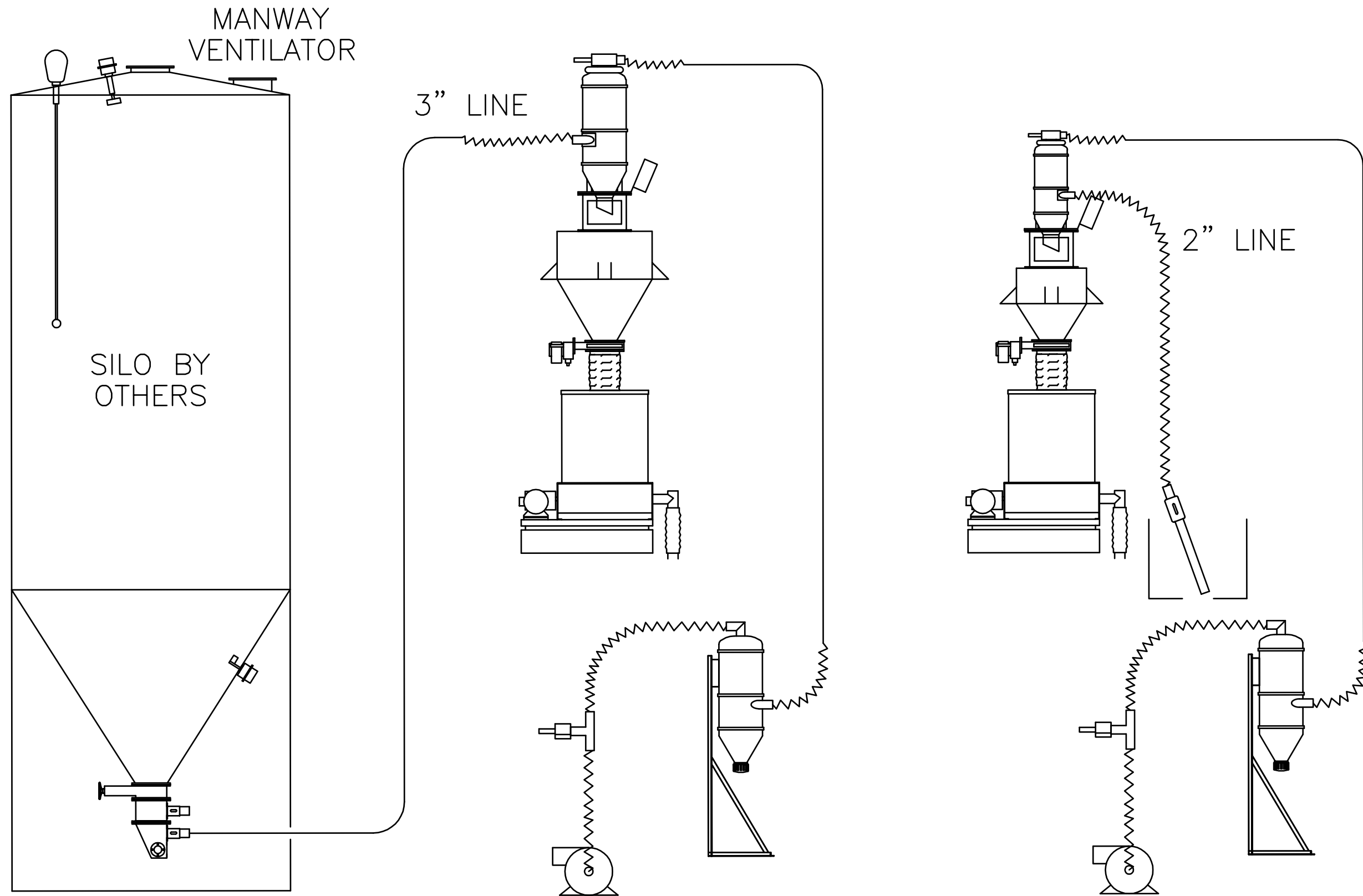




Plastics Industry

This system was provided to a manufacturer of composite decking. The vacuum conveying system was designed to transfer polyethylene recycle from storage silo to intermediate filter receiver. The material is then scaled from our filter receiver with a reduced displacement rotary aerolock and conveyed to blending operation.

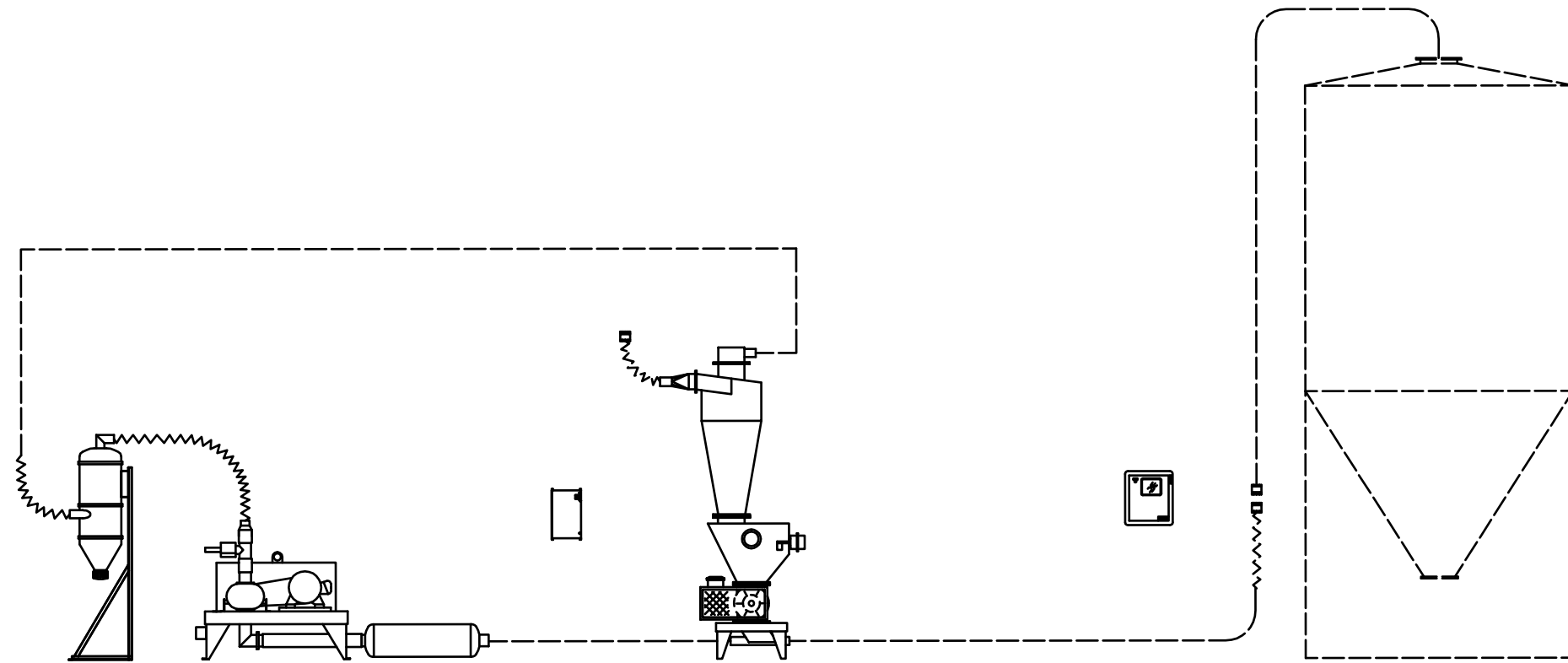




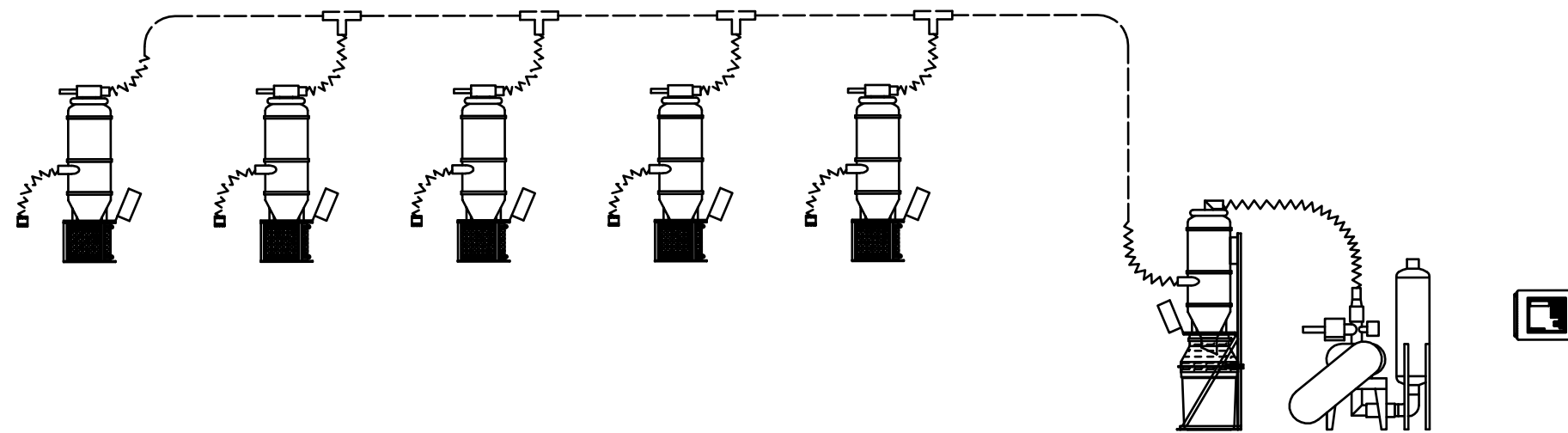
Plastics Industry

This project was supplied to a company that makes Cross-Linked Polyethylene Compounds (PEX) for Hot and Cold Potable Water Systems as well as the pipe products. They also make Cross-Linked Polyethylene Compounds (XLPE) for Low Voltage Wire & Cable Products: We provided them with two component systems that are handling compounds that fill loss in weight feeders one from a silo and one from a Gaylord station.





POLYPROPYLENE PELLETS



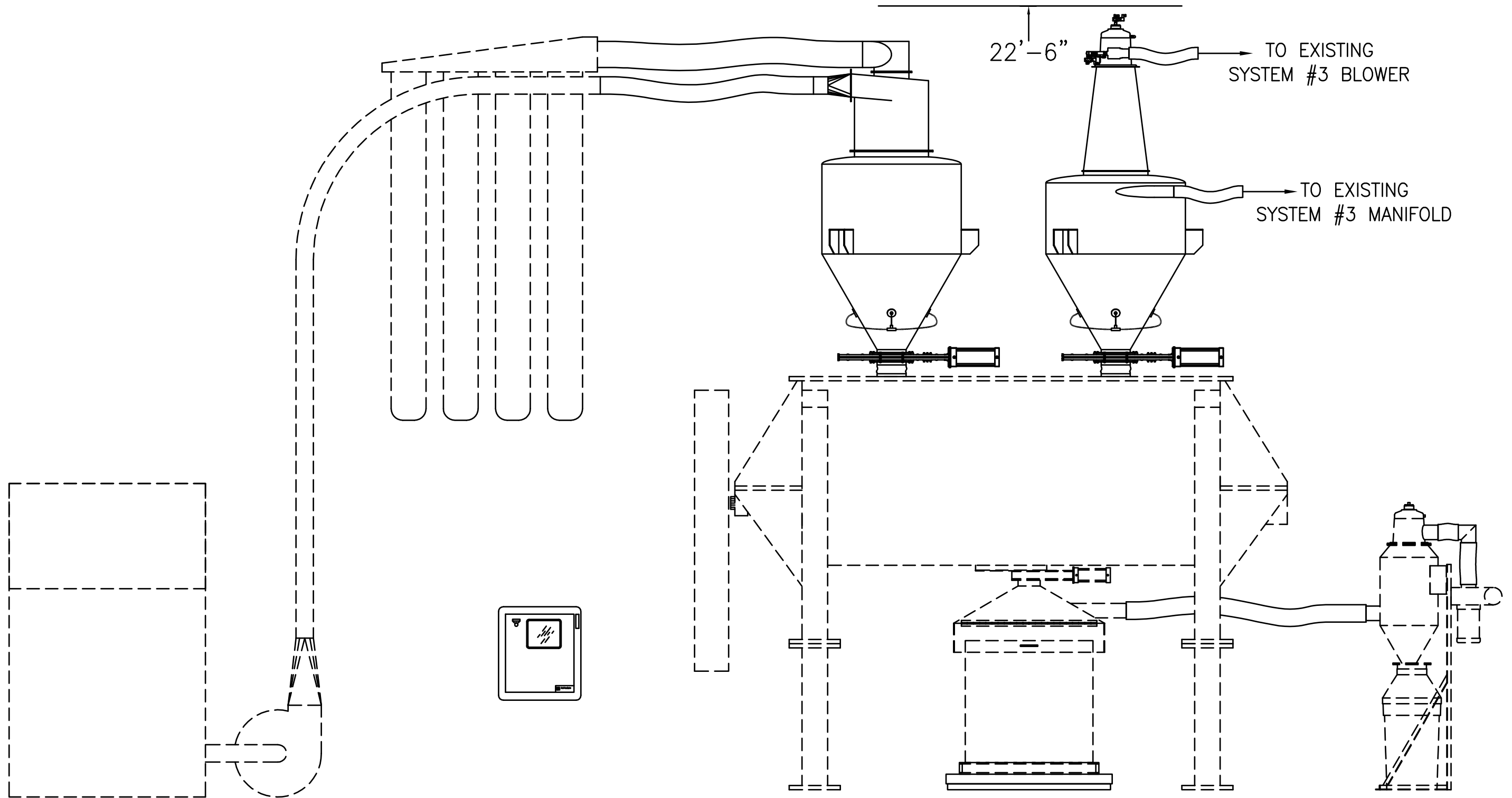
REGRIND



Plastics Industry

This project was supplied to a company that makes tackle boxes, gun cases, and a vast range of specialty flip and tray boxes. The equipment we supplied for this customer was a duplicate of a complete “Single Blower Vacuum / Pressure Rail Unloading System” capable of pulling material from multiple sources including rail cars and silos then conveying the material to multiple destinations. We also supplied a complete 2400 system that is being used to recycle their regrind / rework material back into their process.

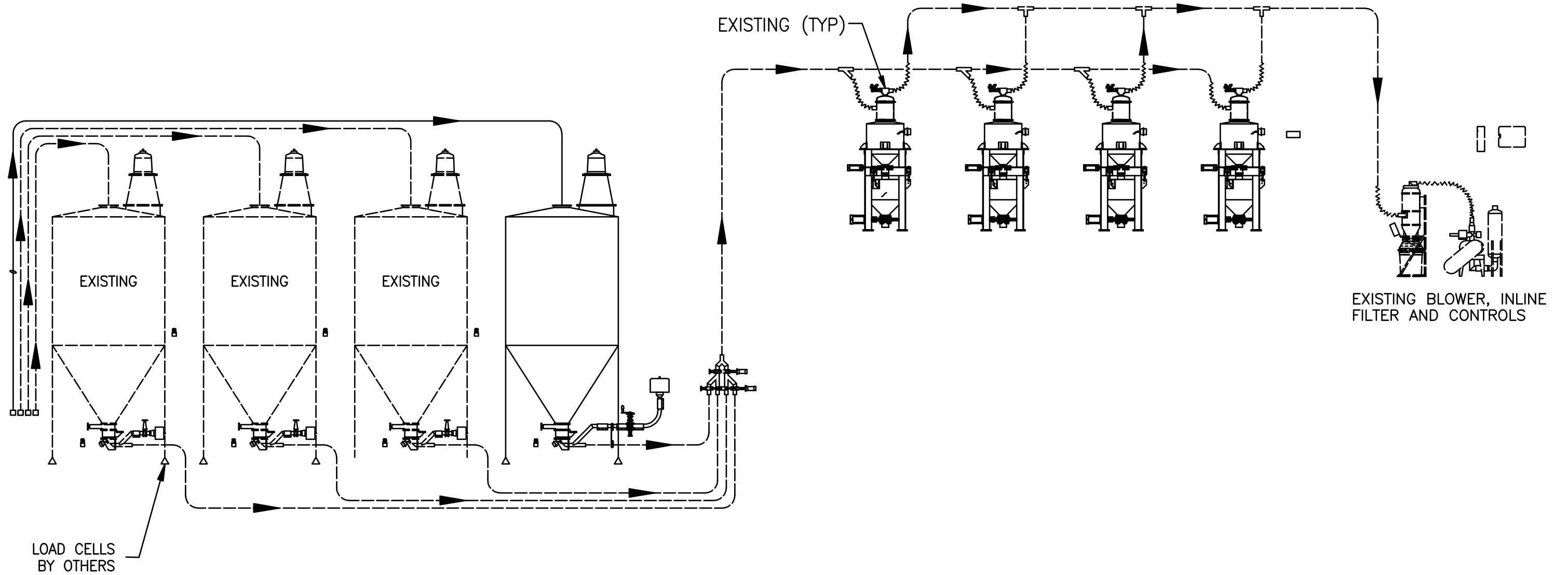




Plastics Industry

This project was supplied to a manufacturer of composite decking, to facilitate increase in regrind use. Virgin PVC compound and PVC regrind are conveyed, batch weighed, and dispensed to a ribbon blender. The system is integrated with the blender discharge scale to maintain a consistent amount of material in the blender.

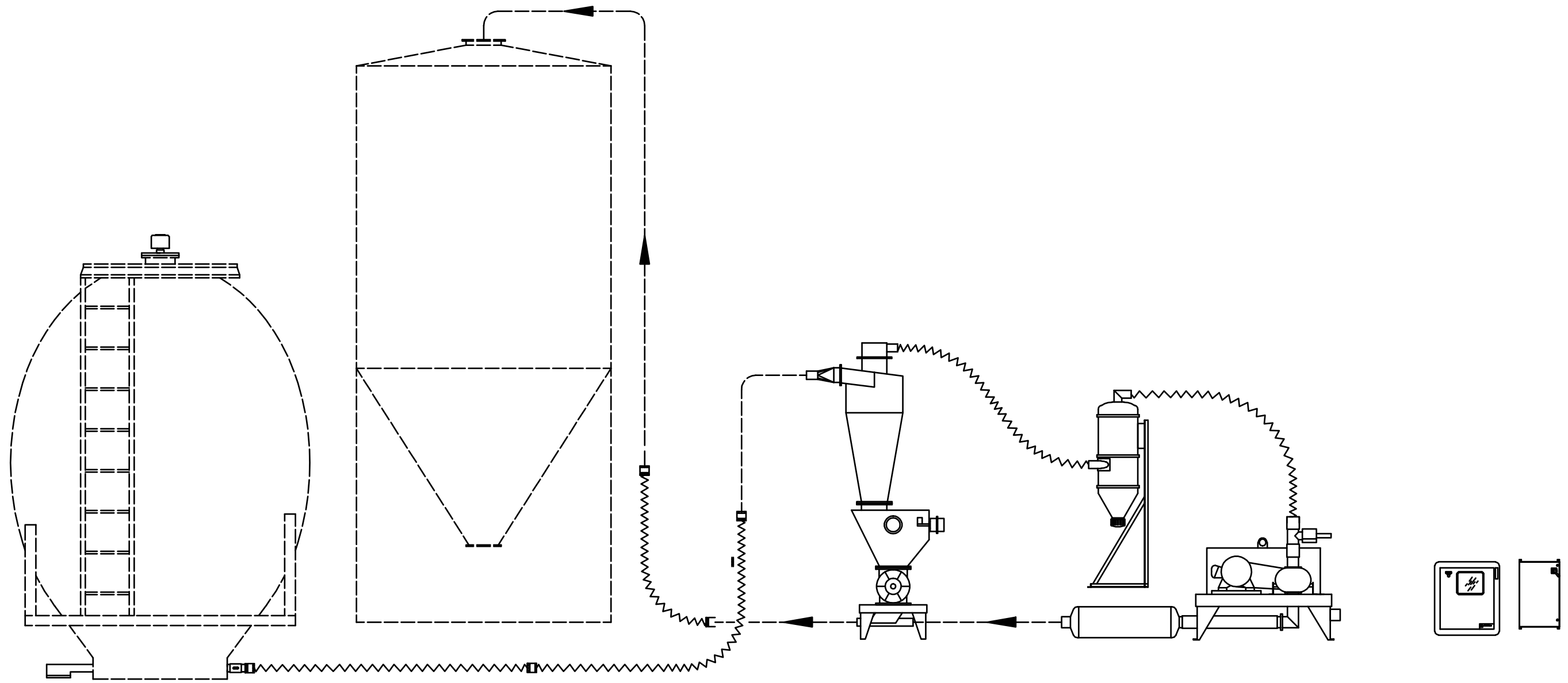




Plastics Industry

This project was sold to a pharmaceutical plastics injection molder. We provided a conveying and batch scaling system that allowed the customer to accurately inventory the amount of raw material they were sending to their injection molders.

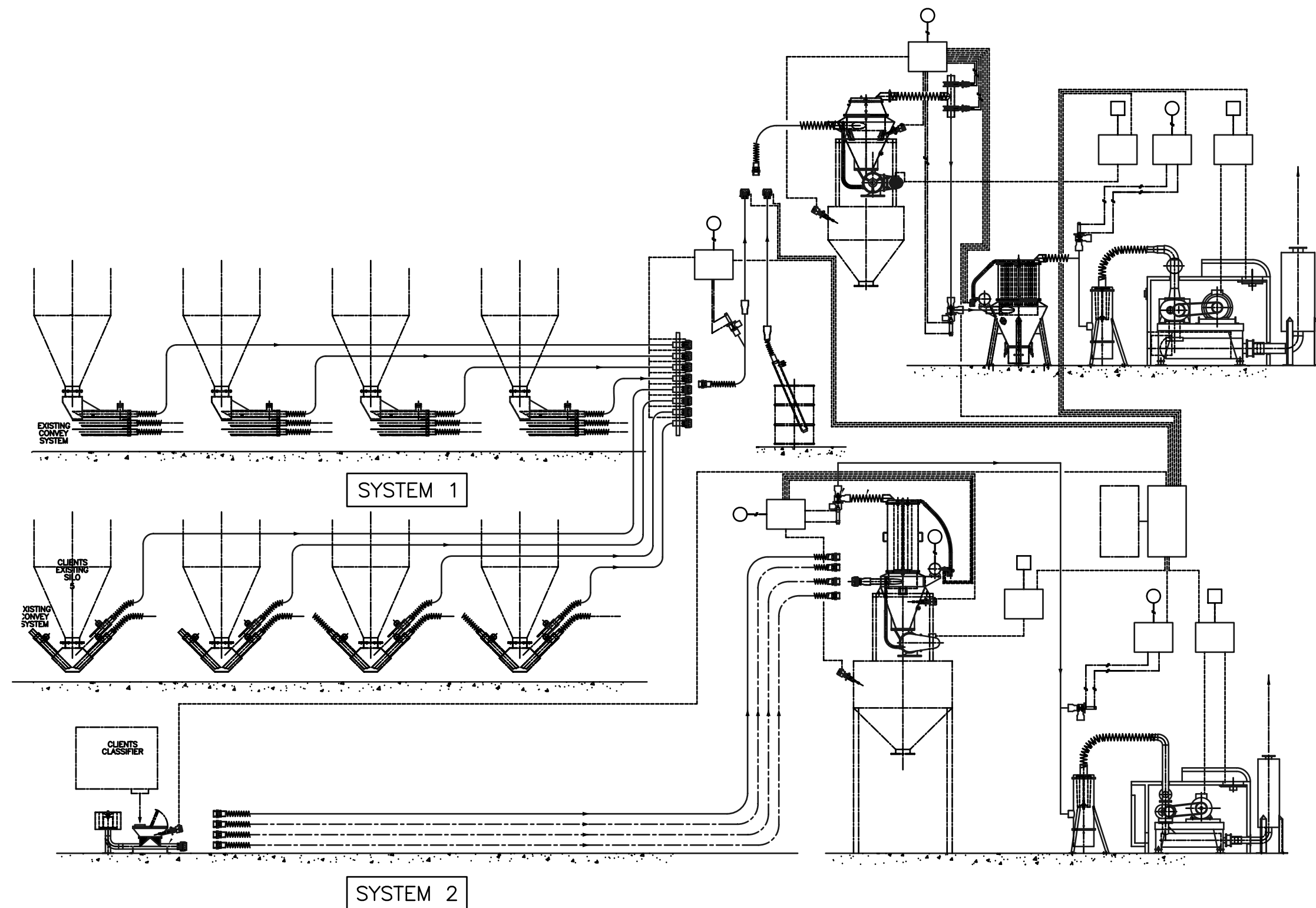




Plastics Industry

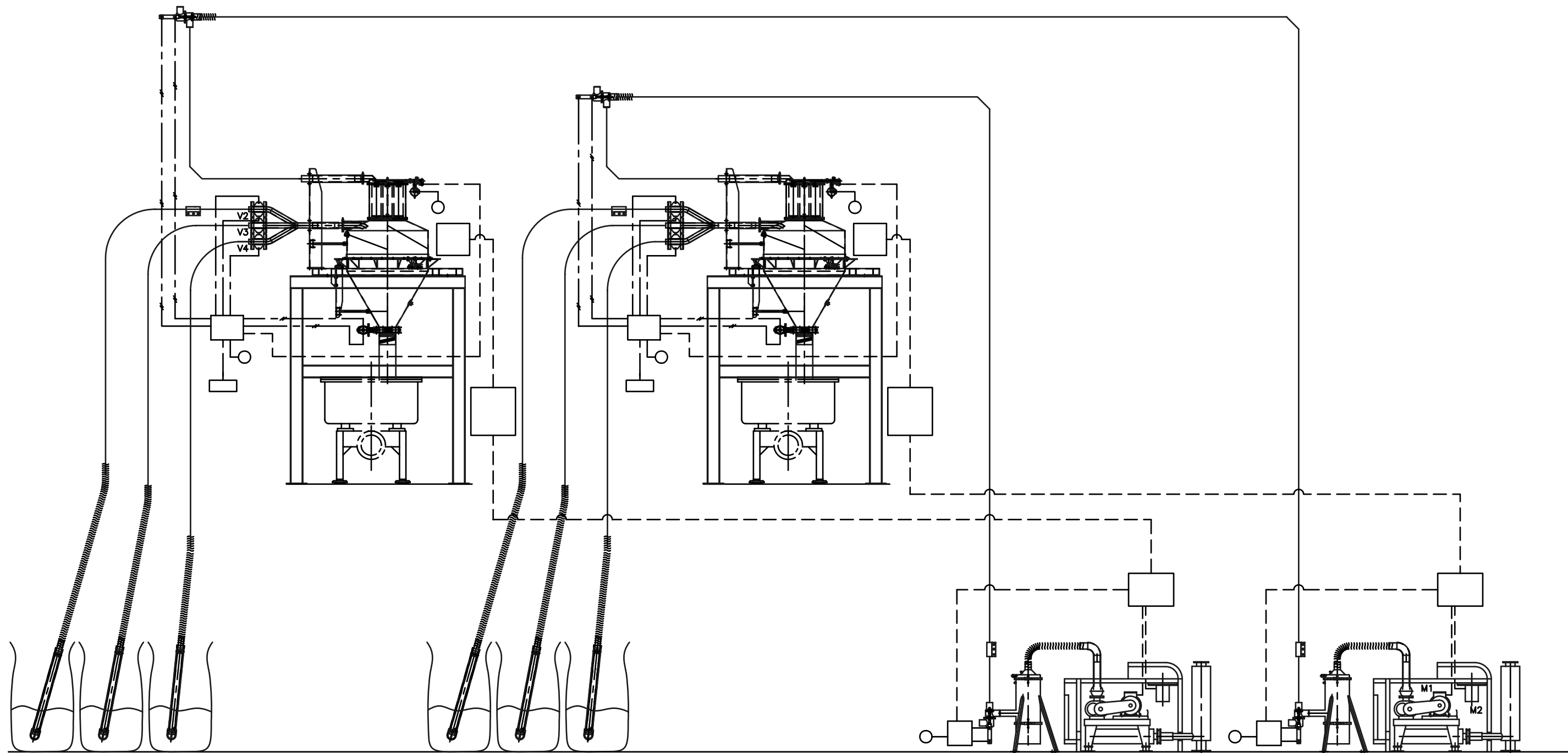
This project was supplied to a company that makes products ranging from private label food and disposer bags to packaging closures to soil stabilization materials to specialty stretch films. They also manufacture plastic bags and wrap, trash bags and various other products. For this project we supplied a Single Blower Vacuum / Pressure Rail Unloading System for conveying polyethylene pellets from a rail car to a silo.





Plastics Industry

Long distance (120 m), high tonnage (4000 kg/hr), plastic granules
 Continuous conveying with rotary valve and floor mounted filter for dust removal.



Plastics Industry

Three individual ingredients weighed in sequence and discharged into high speed mixer.
Convey rate 2000 kg/hr, distance 10 meters.