



Tower Dryers

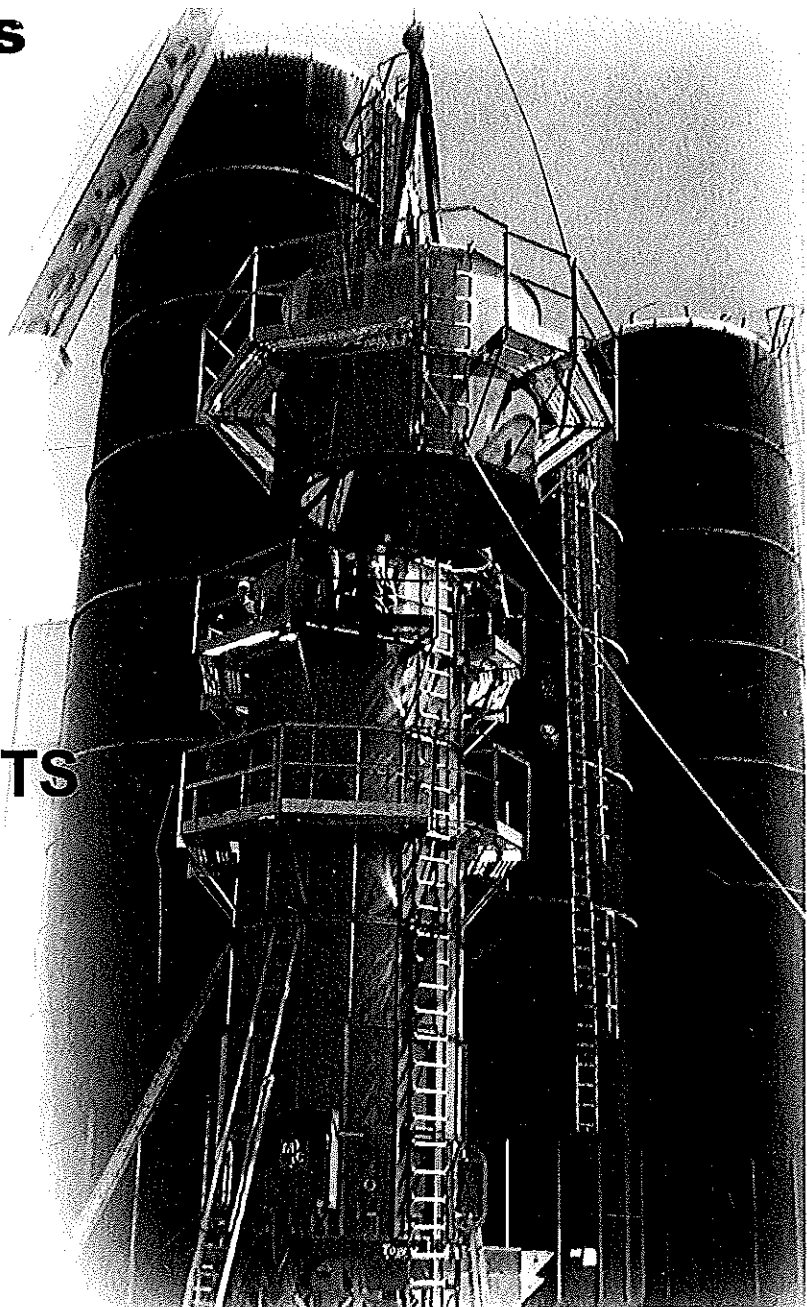
Single Fan Models

10520 10840
10630 101050
10730 101275

10 ft. (3m.) Diameter

INSTALLATION & PARTS MANUAL

EFFECTIVE 7/2009



Mathews Company

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INSTALLATION

GENERAL NOTES.....4

CONCRETE FOUNDATION

- 10520, 10630 & 10730 TOWER DRYERS.....5
- 10840 & 101050 TOWER DRYERS.....6
- 101275 TOWER DRYER.....7

FOUNDATION LAYOUT AND ANCHORING INFORMATION

- 10520-10840 TOWER DRYERS8
- 101050 TOWER DRYERS9
- 101275 TOWER DRYERS10

SHIPPING SECTIONS

- 10520 TOWER DRYER.....11
- 10630 TOWER DRYER.....12
- 10730 TOWER DRYER.....13
- 10840 TOWER DRYER.....14
- 101050 TOWER DRYER.....15
- 101275 TOWER DRYER.....16

SETUP INSTRUCTIONS 17-18

BASE SECTION INSTALLATION19

BASE LADDER INSTALLATION20

OUTSIDE WALKWAY INSTALLATION 21-23

STACKING SCREEN SECTIONS AND ROOF 24-25

WALKWAY ORIENTATION26

LADDER SAFETY CAGE ASSEMBLY..... 27-28

LADDER & SAFETY CAGE ORIENTATION

- 10520 TOWER DRYER..... 29-30
- 10630 TOWER DRYER..... 31-32
- 10730 TOWER DRYER..... 33-34
- 10840 TOWER DRYER..... 35-36
- 101050 TOWER DRYER..... 37-38
- 101275 TOWER DRYER..... 39-40

INSTALLATION OF CLEAN-OUT PIPES41

FAN MOTOR WIRING42

IGNITION BOARD BOX AND WIRES 42-43

IGNITION ELECTRODE AND SENSE PROBE WIRES.....43

AIR PRESSURE SWITCH44

MOISTURE CONTROL THERMISTORS44

ROTARY BIN SWITCH AND LINEAR LIMITS.....45

MOISTURE SENSOR TERMINAL BLOCKS46

CUSTOMER CONNECTION TERMINALS.....47

PARTS

SWEEP & DISCHARGE AUGER49

DISCHARGE SYSTEM 5HP (AC) MOTOR DRIVE AND MOUNT50

4 FT AUGER EXTENSION ASSEMBLY.....51

CENTER DUMP ASSEMBLY51

BASE COOLING SECTION

- 10520-10840 TOWER DRYER52
- 101050 TOWER DRYER.....53
- 101275 TOWER DRYER.....54

COOLING FLOOR54

CRAWL DOOR 55-56

HEAT SECTION.....57

10 FT. HEAT CHAMBER FLOOR.....58

10 FT. HEAT CHAMBER SLOPE FLOOR.....59

FAN & BURNER LAYOUT60

BURNER CYLINDER.....61

BURNER.....62

CONTENTS

Page

THERMISTORS.....	63
IGNITION BOARD.....	63
CLEAN-OUT WALKWAY & LADDER—10 FT.	64
OPTIONAL GRAIN TURNER.....	65
ROOF SECTION.....	66
GRAIN RECEIVING TOP ASSEMBLY.....	67
WALKWAY.....	68
OUTSIDE LADDER & SAFETY CAGE ASSEMBLY	
• 10520 TOWER DRYER.....	69
• 10630 TOWER DRYER.....	70
• 10730 TOWER DRYER.....	71
• 10840 TOWER DRYER.....	72
• 101050 TOWER DRYER.....	73
• 101275 TOWER DRYER.....	75
SAFETY CAGE STRAPS.....	75
LIQUID PROPANE INTAKE LINE.....	76
LIQUID PROPANE VAPORIZER & BURNER STAND PIPE ASSEMBLIES	
• 10520 TOWER DRYER.....	77
• -10630 TOWER DRYERS.....	78
• 10730 TOWER DRYER.....	79
• 10840 TOWER DRYER.....	80
• 101050 TOWER DRYER.....	81
• 101275 TOWER DRYER.....	82
LIQUID PROPANE GAS MANIFOLD ASSEMBLY	
• 10520-10840 TOWER DRYERS.....	83-84
• 101050-101275 TOWER DRYERS.....	85-86
NATURAL GAS VAPORIZER & BURNER STAND PIPE ASSEMBLIES	
• 10520 TOWER DRYER.....	87
• 10630 TOWER DRYER.....	88
• 10730 TOWER DRYER.....	89
• 10840 TOWER DRYER.....	90
• 101050 TOWER DRYER.....	91
• 101275 TOWER DRYER.....	92
NATURAL GAS MANIFOLD ASSEMBLY	
• 10520-10840 TOWER DRYERS.....	93-94
• 101050-101275 TOWER DRYERS.....	95-96
REMOTE CABINET (BUTTONS, DIALS, LIGHTS, METERS & SWITCHES).....	97
REMOTE CABINET (WIRING).....	98
DIRECT START HIGH VOLTAGE CABINET.....	99
SOFT STARTER HIGH VOLTAGE CABINET.....	100
208-VOLT 3-PHASE REQUIREMENTS.....	101
230-VOLT 3-PHASE REQUIREMENTS.....	101
460-VOLT 3-PHASE REQUIREMENTS.....	101
575-VOLT 4-PHASE REQUIREMENTS.....	101
Tower Dryer Installation and Instruction Procedure & Checklist.....	102

SECTION 1

INSTALLATION

CONCRETE FOUNDATION — GENERAL NOTES

General

1. Refer to design criteria listed on drawings, pp. 2-4.
2. Contractors to assume full responsibilities for:
 - a. Compliance with the contract documents
 - b. Dimensions to be confirmed and correlated on the job site and between individual drawings or sets of drawings.
 - c. Coordination of the various trades.
 - d. Safe conditions on the job site.
3. Unless otherwise noted, all details, sections and notes on the drawings are intended to be typical for similar situations elsewhere.

Foundation

1. Footings are designed for a minimum soil bearing capacity of 2000 PSF.
2. All foundations shall be carried down to depths shown on the drawings, or deeper, if necessary to reach undisturbed soil of design capacity.
3. Approved fill material in locations where engineered fill is required to obtain proper foundation bearing condition, shall be placed in layers not exceeding 9" in loose thickness and compacted to a minimum of 95% of the maximum density obtained in accordance with ASTM specification D1557 Modified Proctor Method, latest edition.
4. Beneath silo area, sub-grade preparation shall include the removal of all unsuitable surface soils including soft clays, highly organic top soil, root matter, debris, and other deleterious materials.
5. If fill material is required, the zone of compacted fill shall be extended one foot beyond the edges of the footing for each corresponding foot of thickness of the compacted fill below the footing.

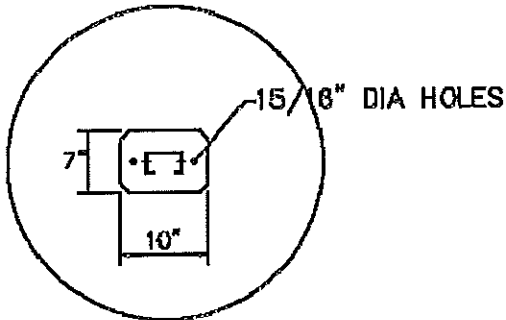
Concrete

1. Concrete work shall conform to:
 - a. ACI 318-89.R.92, Standard Building Requirements for Reinforced Concrete.
 - b. ACI 301, Specification for Structural Concrete in Buildings.
2. Ultimate Compression Strength of Portland Cement Concrete, 150 PCF standard weight, at 28 days, shall be 3000 PSI, air entrained (6% ± 1%)
3. Concrete contractor shall supervise all trades regarding piping, electrical conduit, fixture inserts, anchors etc. Passing through concrete bars shall not be cut or displaced unless absolutely necessary, and then only by concrete contractor. Matching bars equal to cut bars shall be added with proper laps and embedments, clear distance between sleeves shall be minimum 8".
4. No aluminum of any type shall be allowed in the concrete works unless coated to prevent aluminum-concrete reaction. This includes pumping through aluminum pipe.
5. Reinforcing bars shall conform to ASTM Specification 1-615, Grade 60.
6. All laps for rebar, when not dimensioned on drawings, shall be 40 bar diameters.
7. Unless otherwise noted, principal reinforcement shall have following reinforcement cover: 3" on bottom, 6" on top, 2" on sides.

Anchor Bolts

1. Anchor Bolts – ¾" HILTY HY 150 anchors or equivalent with A36 steel and 10" embed.
2. Anchor bolts shall be paced no closer than 10" from the edge of the foundation.

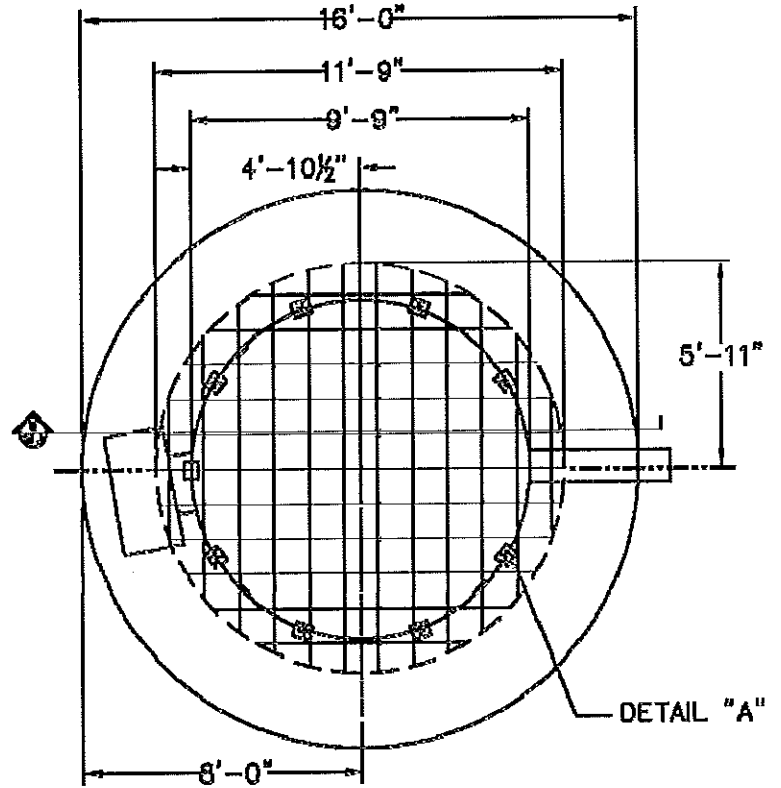
CONCRETE FOUNDATION FOR 10520 10630 & 10730 TOWER DRYERS



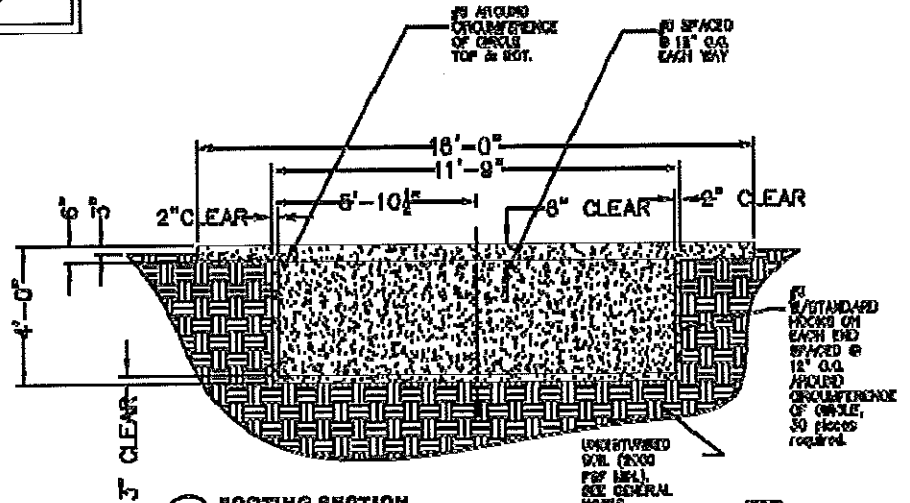
DETAIL "A"
(TYPICAL FOOTING PLATE)

DESIGN CRITERIA

DRYER HEIGHT - 39'-8"
 DRYER DIAMETER - 117" OR 9'-9"
 DRYER WEIGHT - 10,000 lbs.
 GRAIN WEIGHT - 51,350 lbs.
 MAXIMUM DRYER LEG LOAD - 20,380 lbs.
 MAXIMUM DRYER LEG UPLIFT - 10,870 lbs.
 COMPRESSIVE STRENGTH OF SOIL - 2000 PSF
 COMPRESSIVE STRENGTH OF CONCRETE - 3000 PSI
 REBAR YIELD STRENGTH - 80 KSI (GRADE 60)
 NORMAL CONCRETE WEIGHT 150 PCF



(A) FOOTING PLAN FOR TYPE 10520 - 10730



(C) FOOTING SECTION

MANUFACTURES NOTES:

16.06 CUBIC YARDS OF CONCRETE FOR FOUNDATION

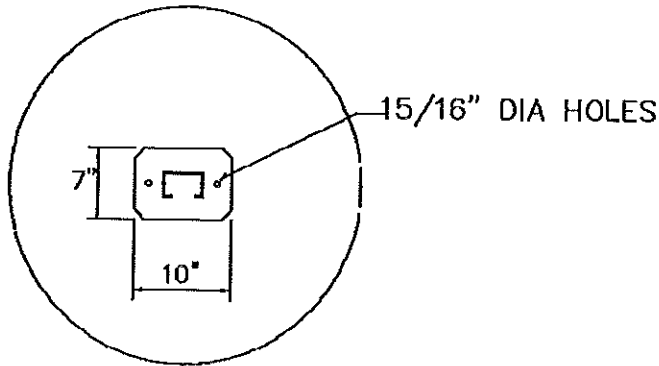
2.0 CUBIC YARDS OF CONCRETE FOR OUTER PAD

18.06 CUBIC YARDS OF CONCRETE TOTAL VOLUME

#8 REBAR QUANTITY REQUIRED IS 650 FEET

3/4" CONCRETE ANCHOR, 2 PER LEG, 10" MINIMUM EMBEDMENT. 18 ANCHORS REQUIRED

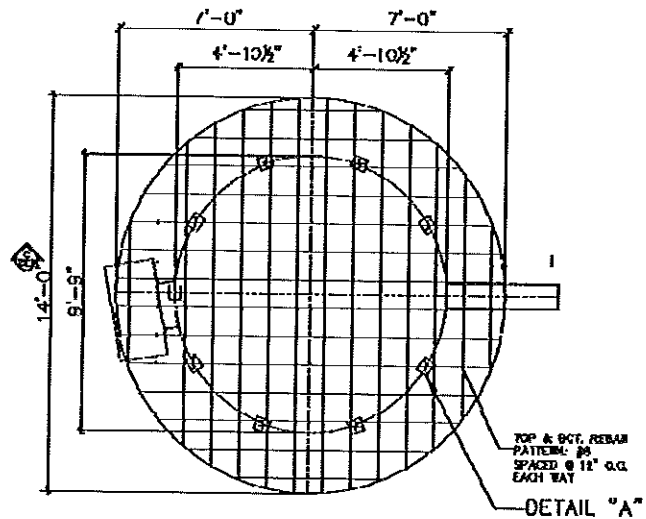
CONCRETE FOUNDATION FOR 10840 & 101050 TOWER DRYERS



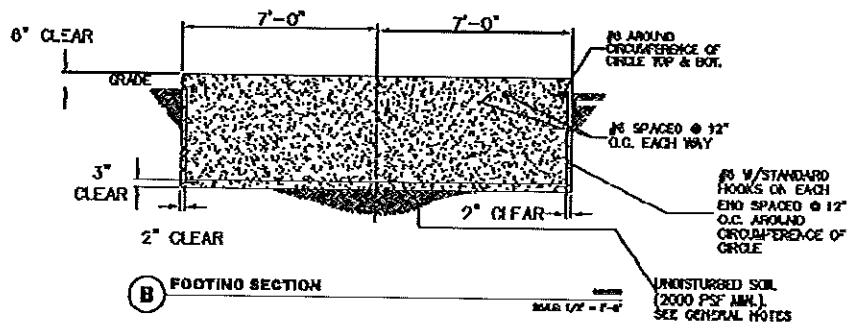
DETAIL "A"
(TYPICAL FOOTINGPLATE)

DESIGN CRITERIA

DRYER HEIGHT - 51'-10"
 DRYER DIAMETER - 1'-7" OR 9'-9"
 DRYER WEIGHT - 13,300 lbs.
 GRAIN WEIGHT - 64,430 lbs.
 MAXIMUM DRYER LEG LOAD 28,675 lbs.
 MAXIMUM DRYER LEG UPLIFT - 15,035 lbs.
 COMPRESSIVE STRENGTH OF SOIL - 2000 PSF
 COMPRESSIVE STRENGTH OF CONCRETE - 3000 PSI
 REBAR YIELD STRENGTH - 60 KSI (GRADE 60)
 NORMAL CONCRETE WEIGHT 150 PCF



A FOOTING PLAN FOR TYPE 10840 & 101050 GRAIN DRYERS
SCALE 1/4" = 1'-0"

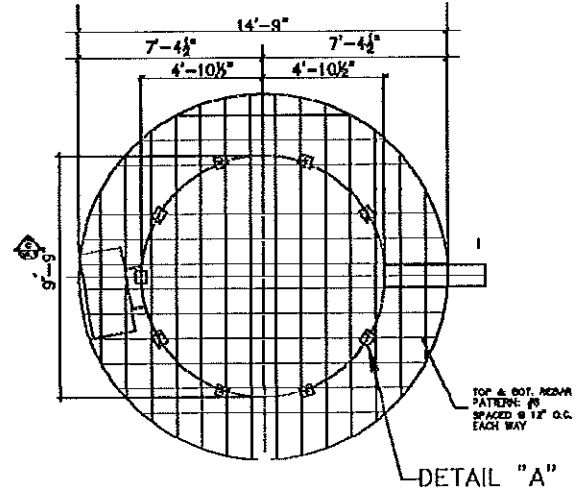
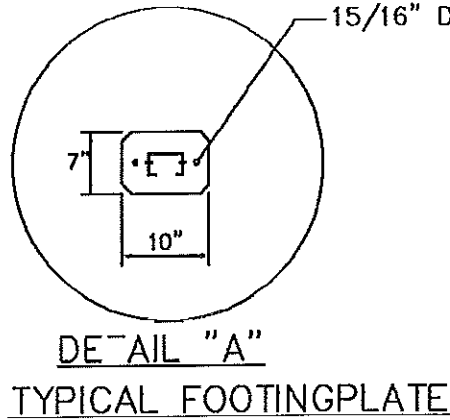


B FOOTING SECTION
SCALE 1/4" = 1'-0"

MANUFACTURES NOTES:

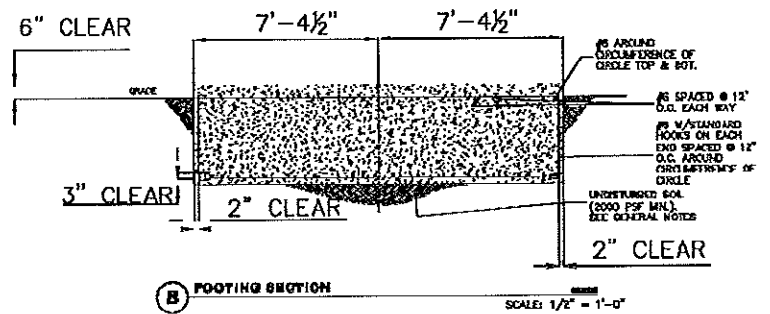
22.8 CUBIC YARDS OF CONCRETE TOTAL VOLUME
 #6 REBAR QUANT TY REQUIRED IS 576 FEET
 3/4" CONCRETE ANCHOR, 2 PER LEG, 10" MIN MUM EMBEDMENT, 18 ANCHORS REQUIRED

CONCRETE FOUNDATION FOR 101275 TOWER DRYERS



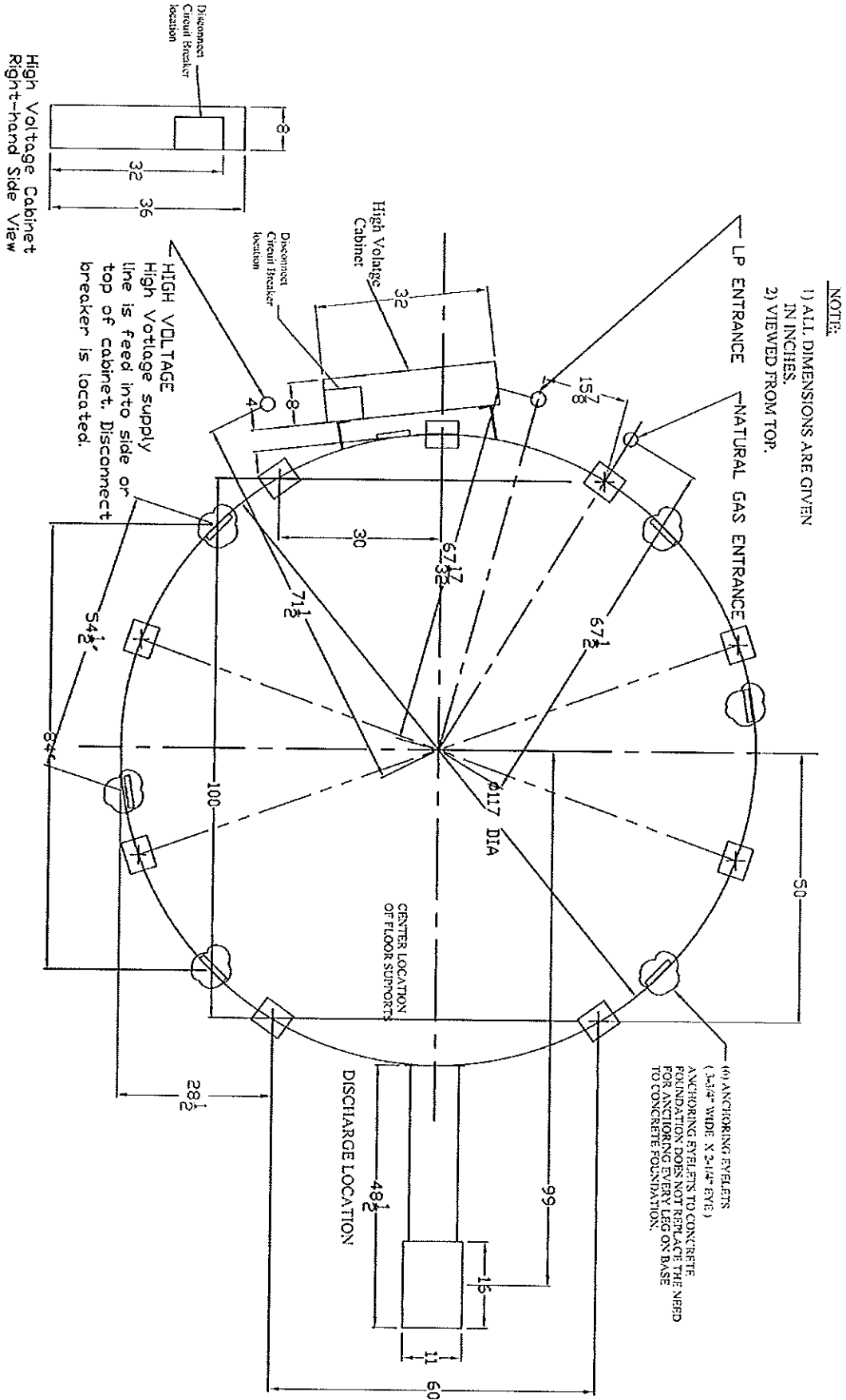
(A) FOOTING PLAN FOR TYPE 101275 GRAIN DRYER

DESIGN CRITERIA
DRYER HEIGHT - 60'-11"
DRYER DIAMETER - 117" OR 9'-9"
DRYER WEIGHT - 15,100 lbs.
GRAIN WEIGHT - 72,995 lbs.
MAXIMUM DRYER LEG LOAD - 26,875 lbs.
MAXIMUM DRYER LEG UPLIFT - 16,035 lbs.
COMPRESSIVE STRENGTH OF SOIL - 2000 PSF
COMPRESSIVE STRENGTH OF CONCRETE - 3000 PSI
REBAR YIELD STRENGTH 63 KSI (GRADE 60)
NORMAL CONCRETE WEIGHT 150 PCF

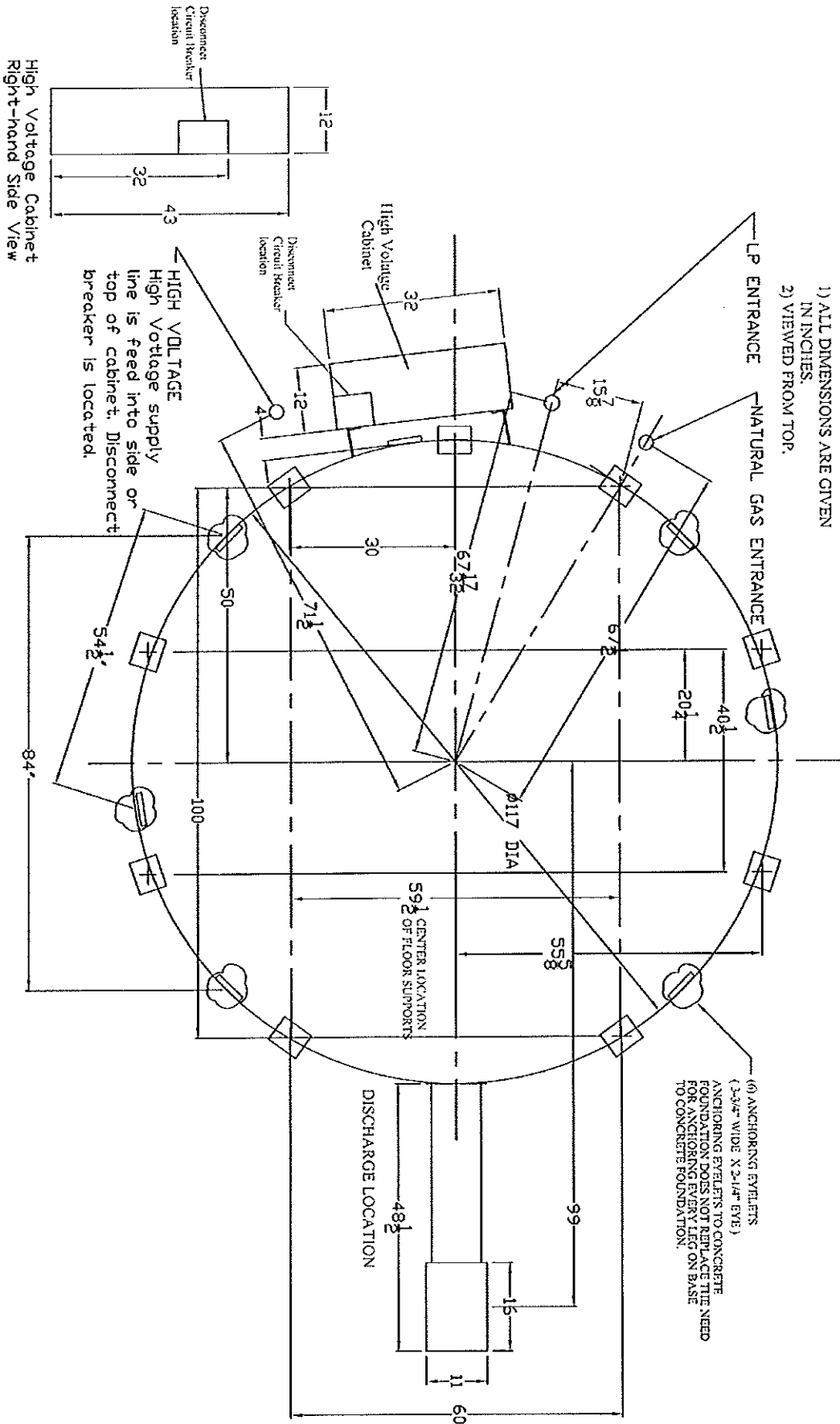


MANUFACTURES NOTES:
 25.33 CUBIC YARDS OF CONCRETE TOTAL VOLUME
 #8 REBAR QUANTITY REQUIRED IS 662 FEET
 3/4" CONCRETE ANCHOR, 2 PER LEG, 10" MINIMUM EMBEDMENT, 18 ANCHORS REQUIRED

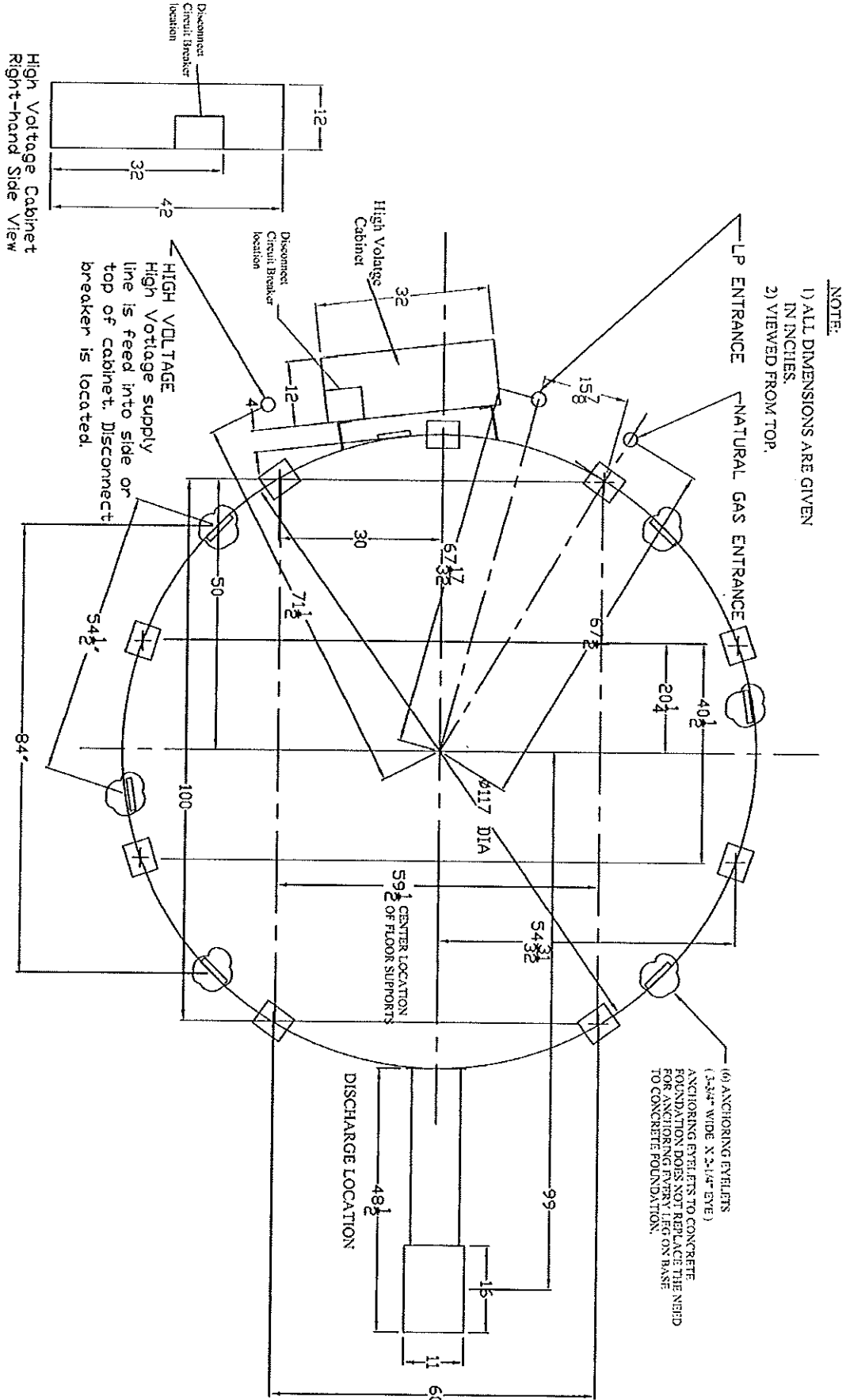
FOUNDATION LAYOUT AND ANCHORING INFORMATION FOR 10520 — 10840 TOWER DRYERS



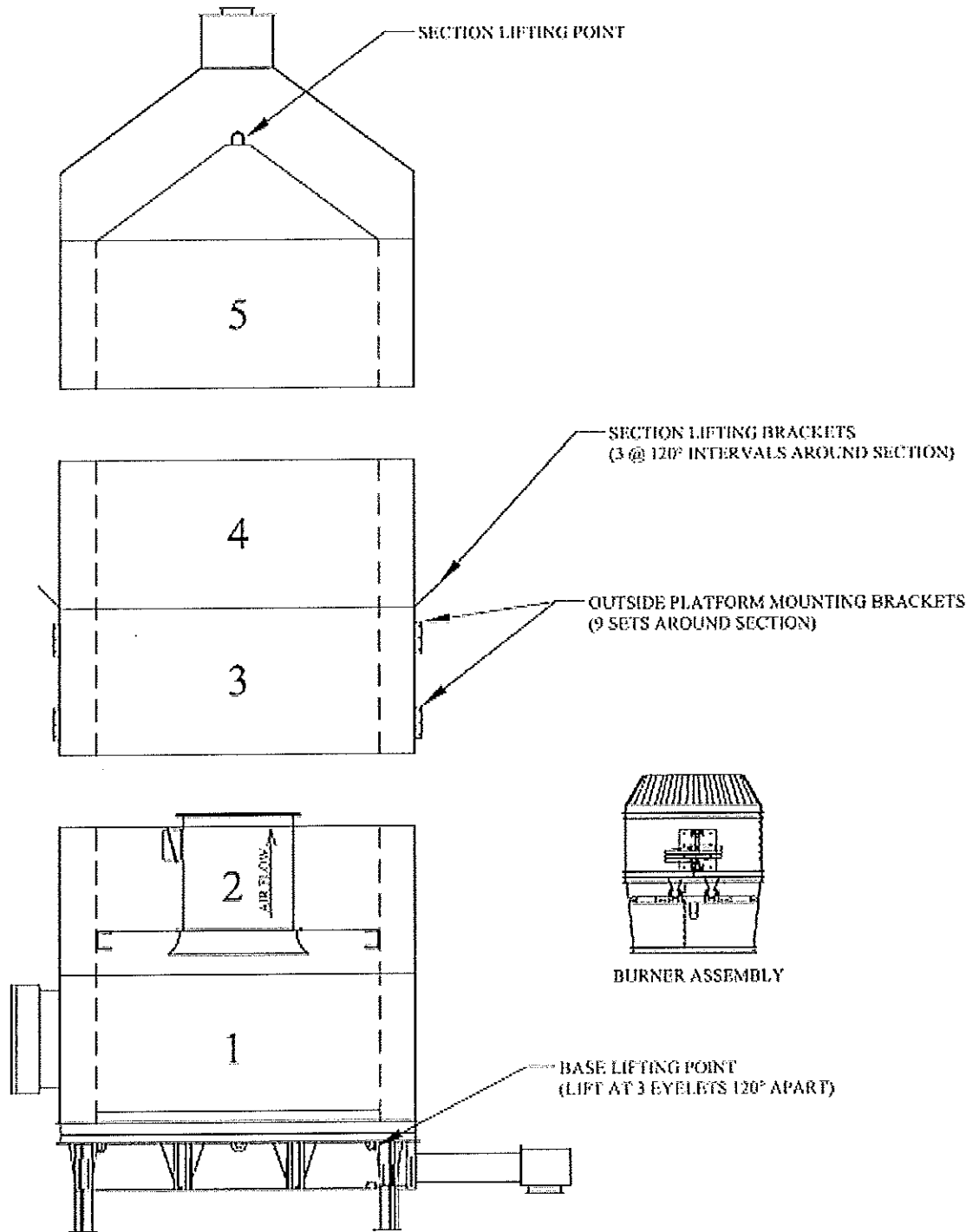
FOUNDATION LAYOUT AND ANCHORING INFORMATION FOR 101050 TOWER DRYERS



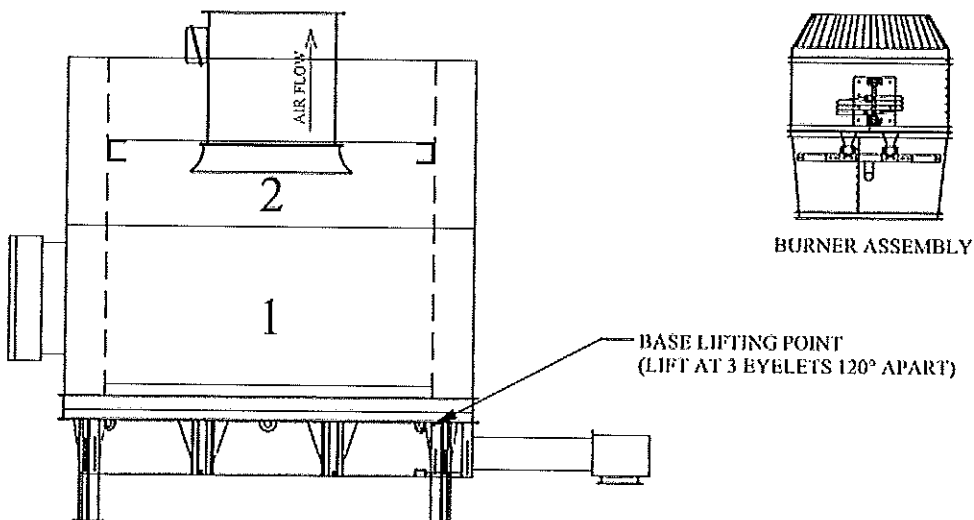
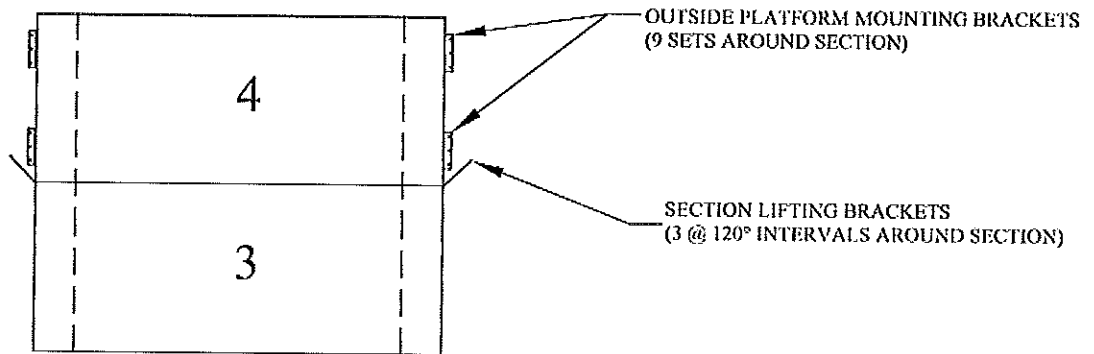
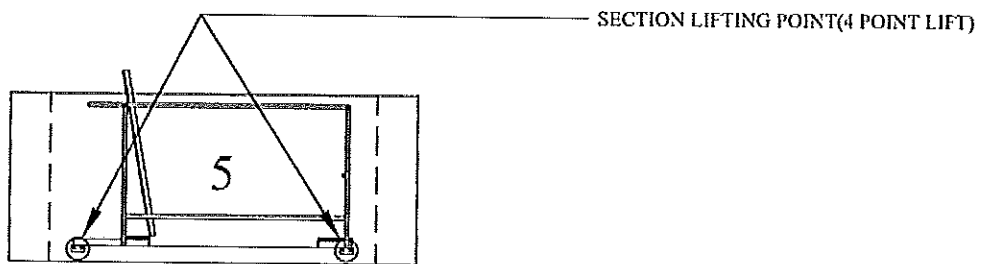
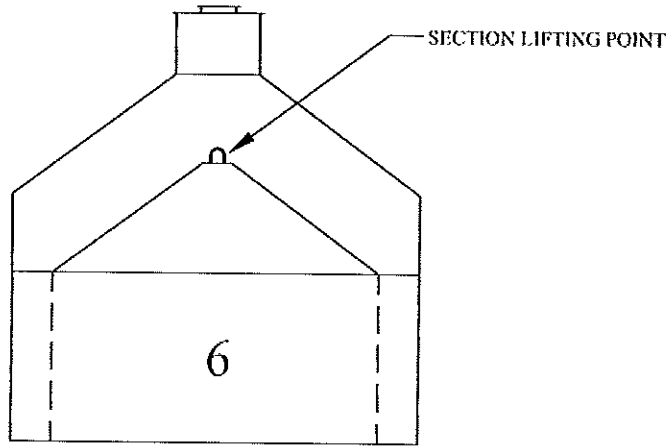
FOUNDATION LAYOUT AND ANCHORING INFORMATION FOR 101275 TOWER DRYERS



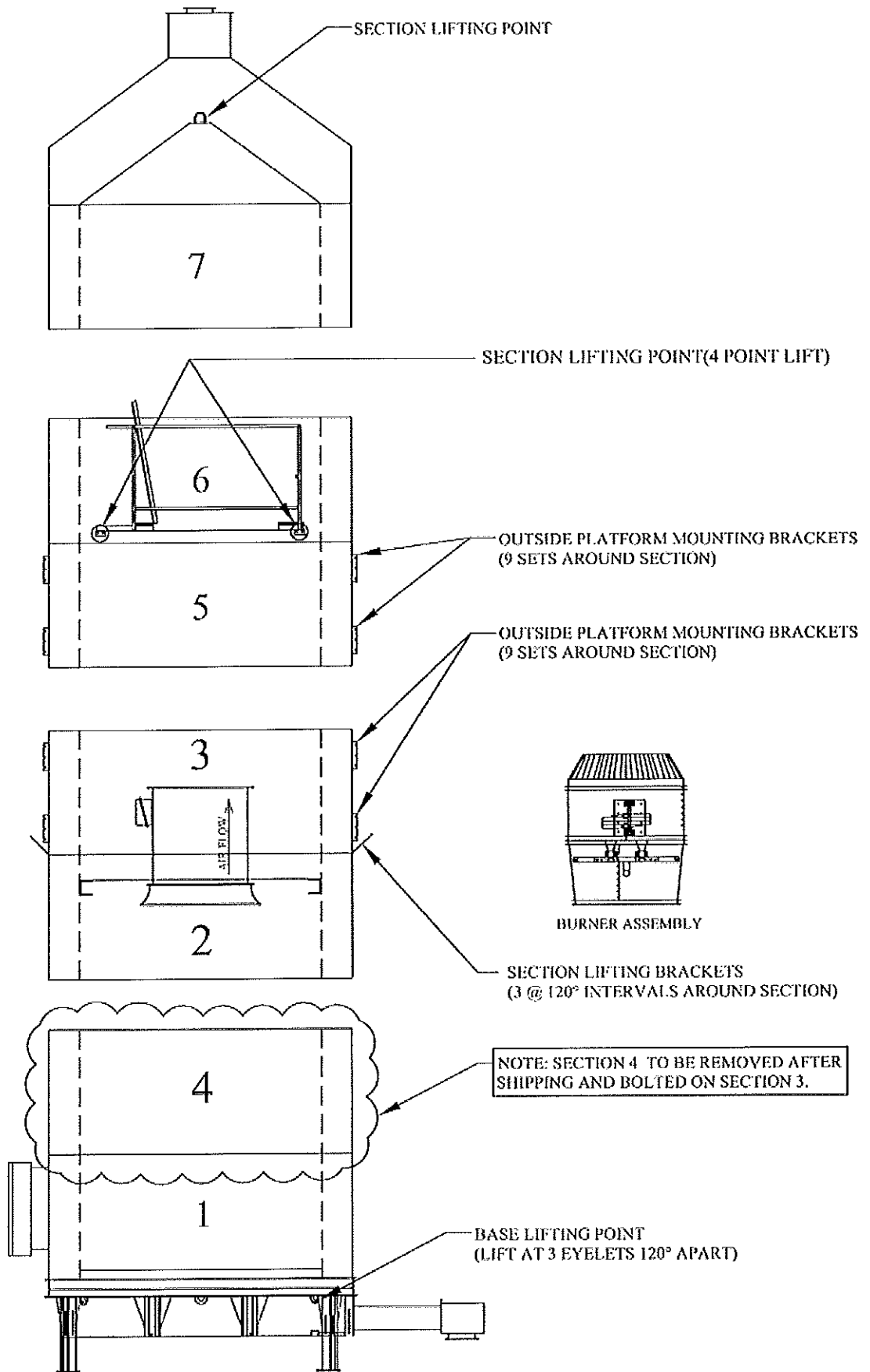
10520 SHIPPING SECTIONS



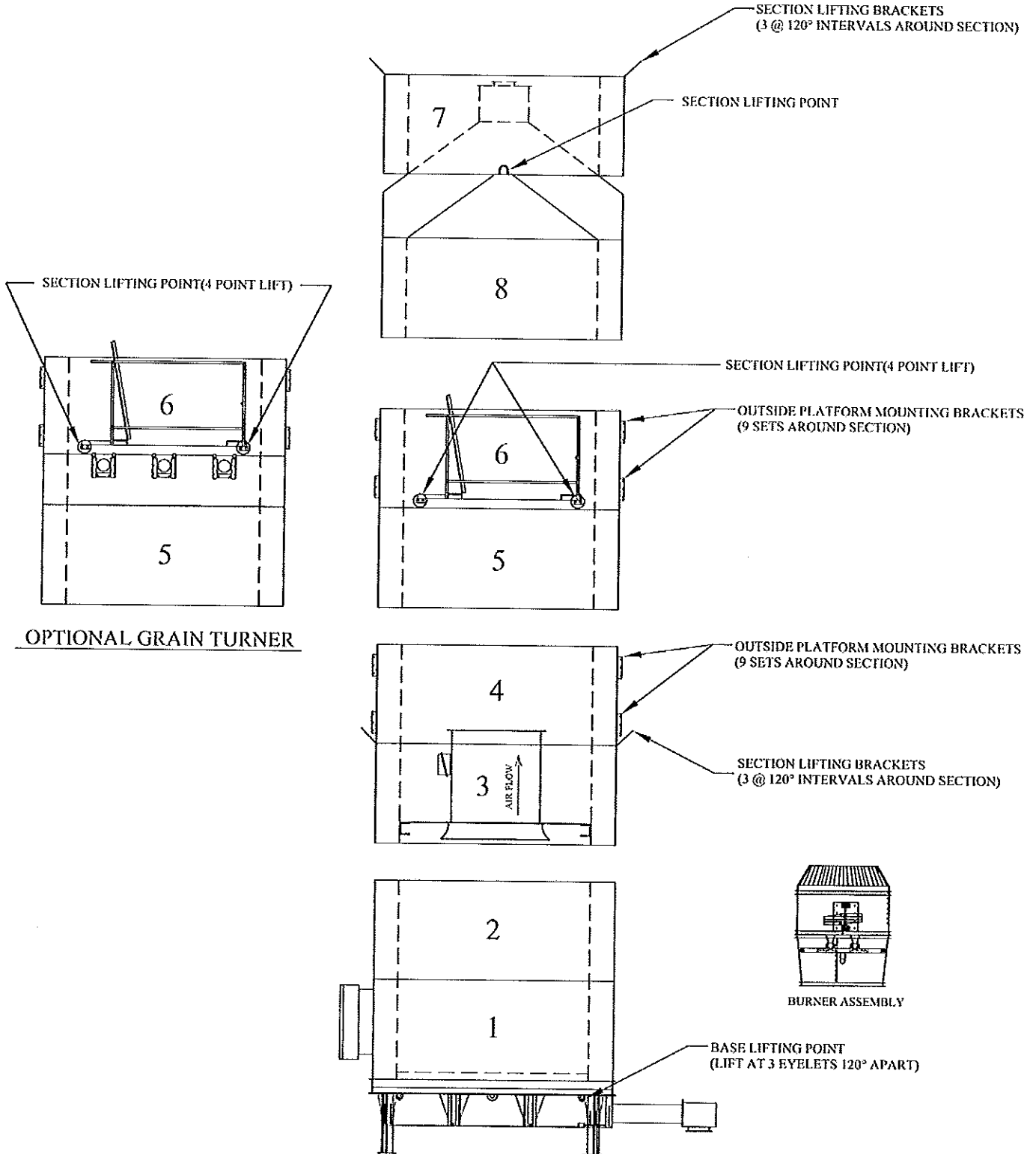
10630 SHIPPING SECTIONS



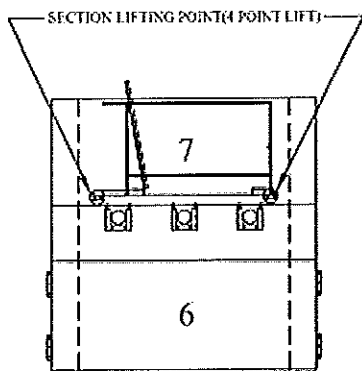
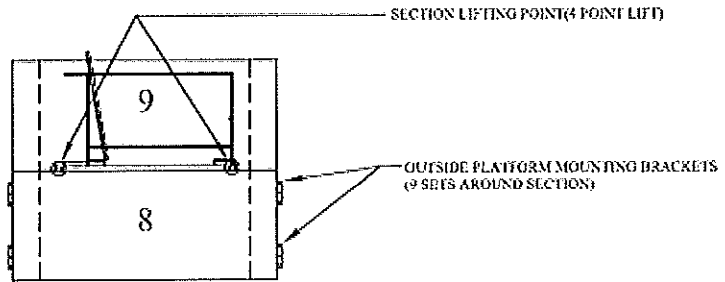
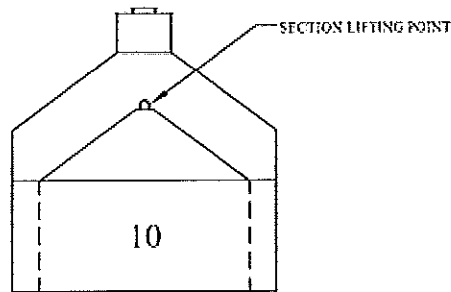
10730 SHIPPING SECTIONS



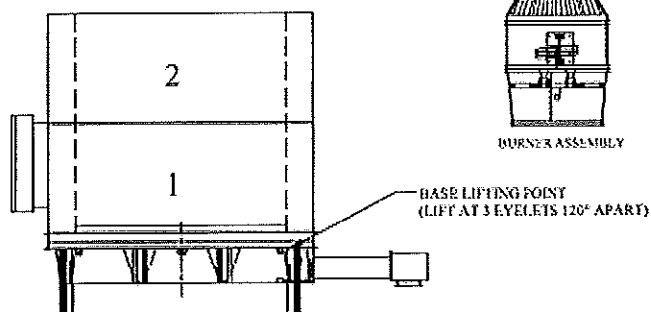
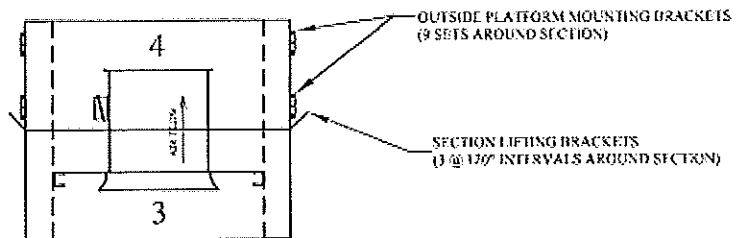
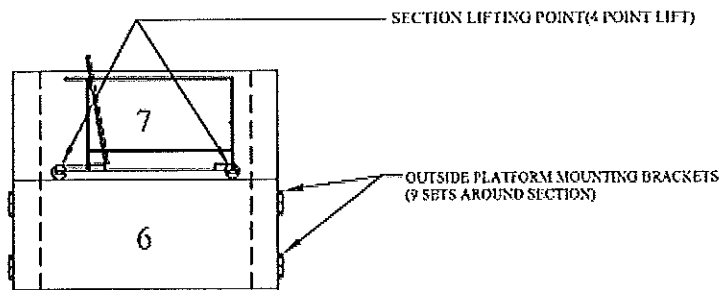
10840 SHIPPING SECTIONS



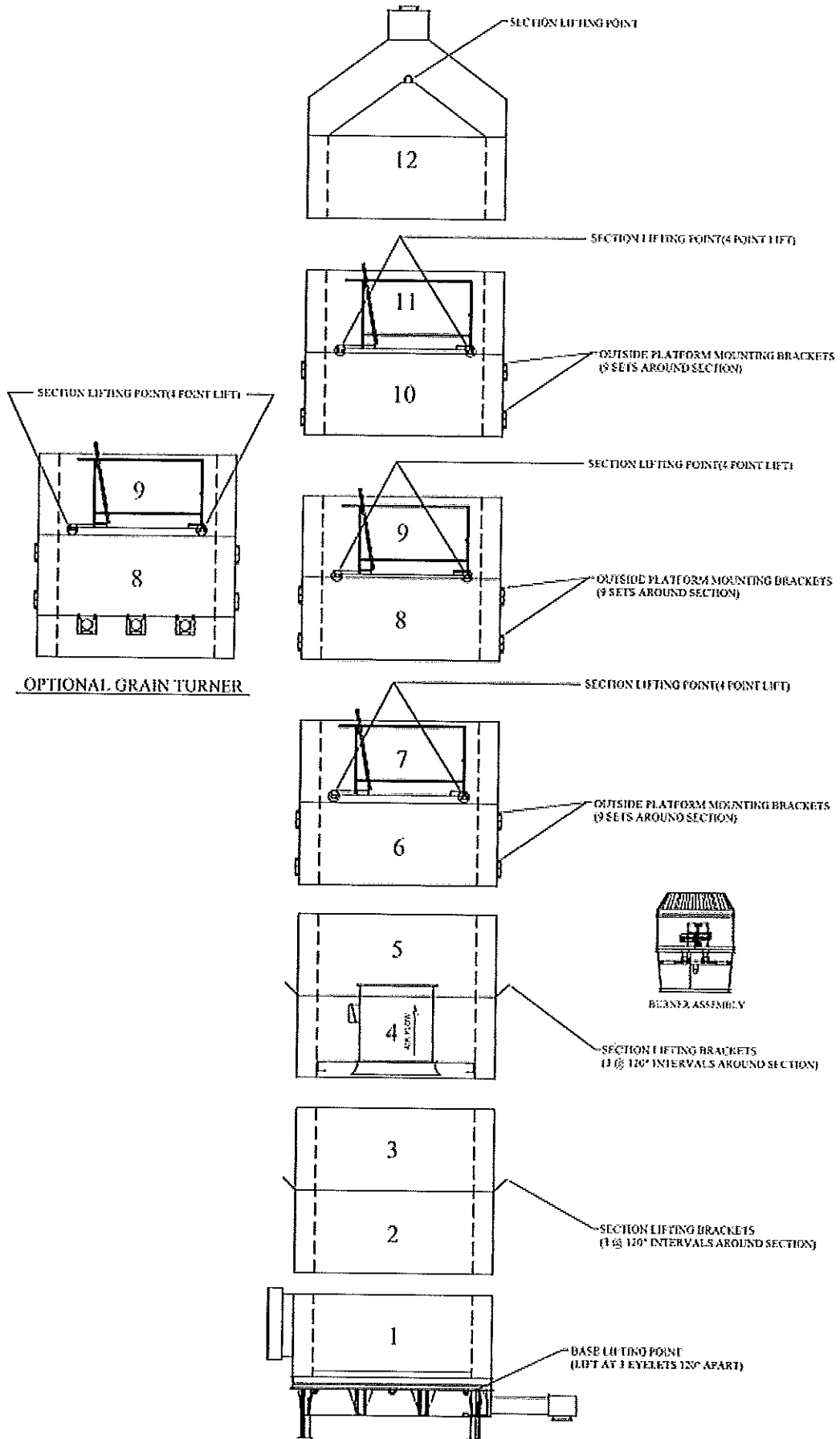
101050 SHIPPING SECTIONS



OPTIONAL GRAIN TURNER



101275 SHIPPING SECTIONS



SET UP INSTRUCTIONS

General

Check to make sure that all the parts and hardware listed on the packing list have been received.

Permanent Installation

The dryer must be installed on a level concrete foundation designed to carry the weight of the dryer when full of grain. The foundation must be engineered locally for ground and weather conditions to prevent settling and frost upheaval. See pages 5-7 for specific dryer foundation requirements.

Allow for unrestricted air flow around the dryer and a clean supply of intake air.

It is recommended that the dryer be at least 10 feet from another dryer.

SHIPPING

Each section is marked at the center ladder bracket to assist in the proper placement of each section when stacking. Ladders are bolted to all screen sections except the base section, which has a 10 ft. ladder

The 10530 Tower Dryer is shipped in (3) sections:

- 10530 - (1) Base with (2) 4 ft. screen sections attached.
 - (1) 8 ft. screen section comprised of (2) 4 ft. sections bolted together.
 - (1) 4 ft. screen section with top.

The 10630 Tower Dryer is shipped in (4) sections:

- 10630 - (1) Base with (2) 4 ft. screen sections attached.
 - (1) 8 ft. screen section comprised of (2) 4 ft. sections bolted together.
 - (1) 4 ft. screen section.
 - (1) 4 ft. screen section with top.

The 10730 Tower Dryer is shipped in (4) sections:

- 10730 - (1) Base with (1) 4 ft. screen section attached.
 - *NOTE: This section (Section 4) is placed on top of the base for shipping only. Lift this section off the base and stack it on top of Sections 2 & 3.**
 - (2) 8 ft. screen sections, each comprised of (2) 4 ft. sections bolted together.
 - (1) 4 ft. screen section with top.

The 10840 Tower Dryer is shipped in (5) sections:

- 10840 - (1) Base with (2) 4 ft. screen sections attached.
 - (2) 8 ft. screen sections, each comprised of (2) 4 ft. sections bolted together.
 - (1) 4 ft. screen section.
 - (1) 4 ft. screen section with top.

The 101050 is shipped in (6) sections:

- 101050—(1) Base with (2) 4 ft. screen sections attached.
 - (3) 8 ft. screen sections, each comprised of (2) 4 ft. sections bolted together.
 - (1) 4 ft. section alone.
 - (1) 4 ft. screen section with top.

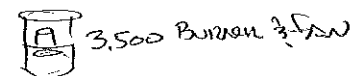
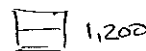
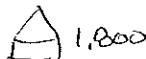
The 101275 is shipped in (7) sections:

- 101275—(1) Base with (1) 4 ft. screen section attached
 - (5) 8 ft. screen sections comprised of (2) 4 ft. sections bolted together
 - (1) 4 ft. screen section with top.

MODEL	Dryer Weight (Empty)	Dryer Weight Filled with dry corn (w/No. 2 Corn)
10520	9,775 lbs	45,559 lbs
	4,434 kg	20,665 kg
10630	10,715 lbs	51,483 lbs
	4,860 kg	23,352 kg
10730	12,155 lbs	58,243 lbs
	5,513 kg	26,419 kg
10840	13,112 lbs	63,848 lbs
	5,948 kg	28,961 kg
101050	15,055 lbs	75,647 lbs
	6,829 kg	34,313 kg
101275	16,793 lbs	87,241 lbs
	7,617 kg	39,572 kg

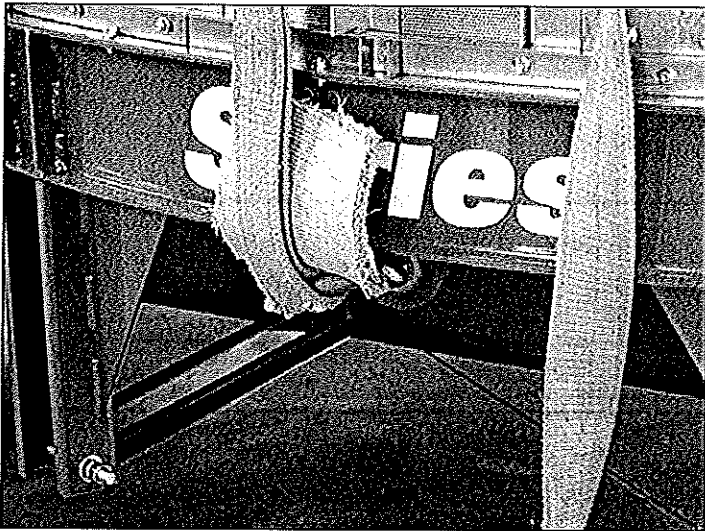
Unloading

- Have a two-lift per section organization. The crane must be placed so that the crane operator can lift sections off the truck and to a working area starting from the top screen section down to the base.
- One section at a time must be lifted from work area to concrete stacking area. When lifting screen sections off the truck:
 - The working area for screen sections must allow enough space for sections that include outside walkways.
 - The working area for outside walkways must be a minimum of 19' in diameter as the outer walkway must be assembled on the ground before stacking.
 - The last screen section to be lifted off the truck is the base screen section and base weldment assembly. This assembly can be lifted from the truck and set directly on the finished concrete.

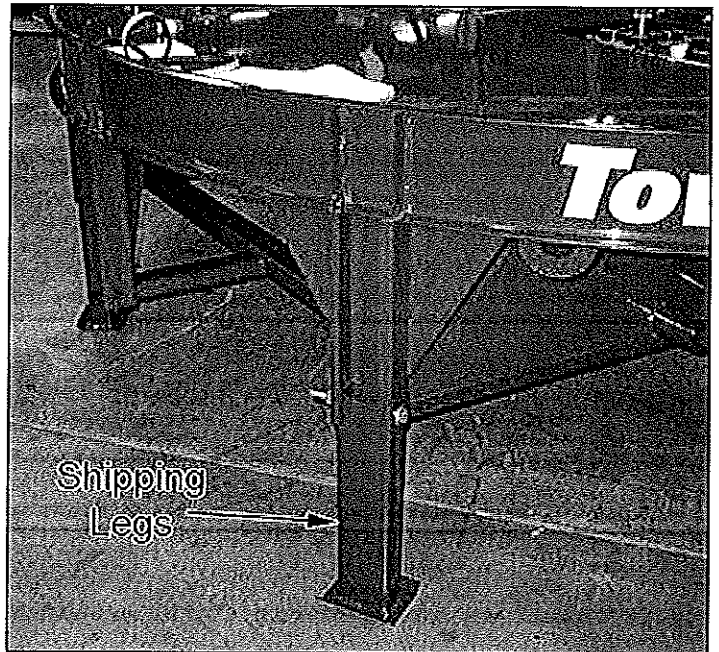


- The base section assembly will be lifted using 40' nylon straps at three points as seen below. The straps will wrap through the eyelets at the bottom of the base, while at the top of the base should be a spreader bar to eliminate side load on the top of the screen section. When the assembly is straight above the concrete for the final dryer location, the following must be determined:
 - Location of input gas fuel and high voltage electrical supply.
 - Placement of discharge auger.

NOTE: The assembly can be rotated until the placement is satisfactory.

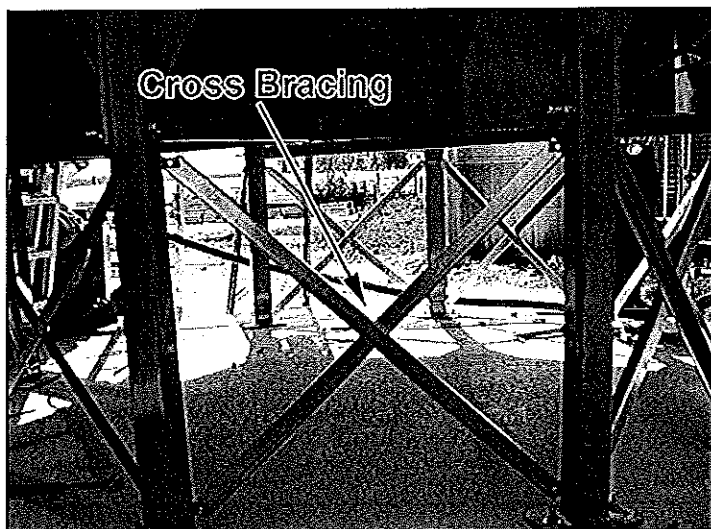


- Discard the shipping legs. Attach the (9) Leg Extensions to the Base Assembly. The top of each leg should make contact with the base to support the weight of the dryer and the crop to be dried. When the top of the leg makes contact with the base, only (1) set of holes will line up to accept the 5/8-11 x 7" Grade 5 Hex Head Capscrew, (2) Flatwashers and (1) Hex Nut to secure each leg.
- Set the base section in place so the discharge auger is correctly positioned. Level base section using metal shims as required.

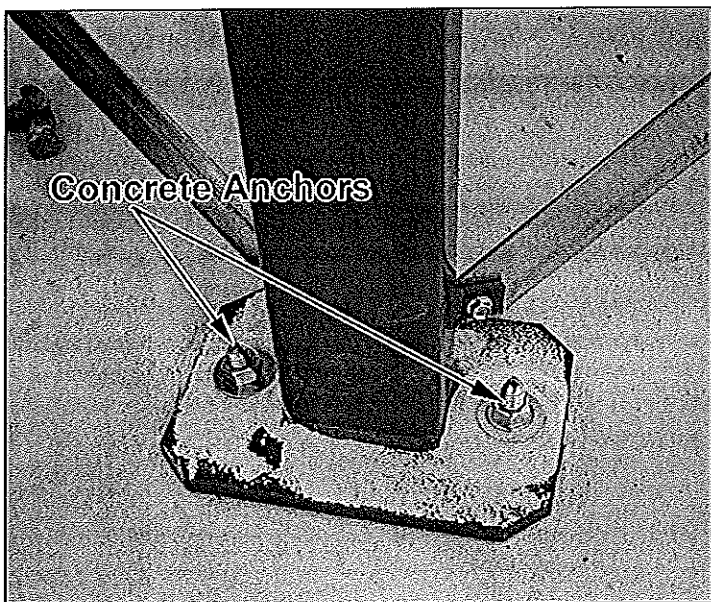


BASE SECTION INSTALLATION

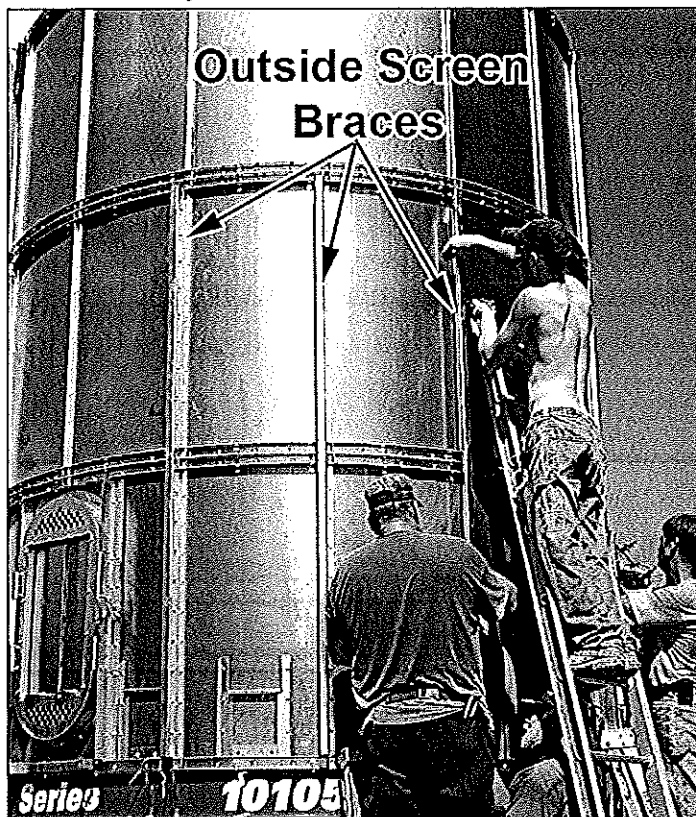
- Set base cooling section in the desired location and rotate base to position electrical supply, fuel supply, and discharge in desired locations. Set base and confirm rotation before releasing lifting straps. All (9) legs must be installed with 5/8 – 11 x 7" Grade 5 bolts. Level base using leg shims.
- If the Tower Dryer is a 101050 or 101275 model, install the Cross Braces.



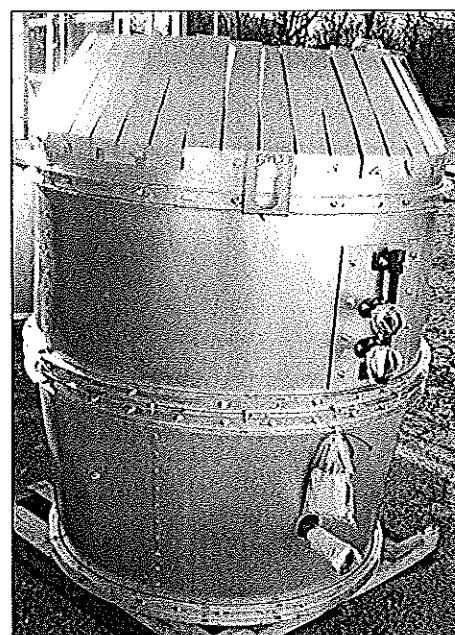
- Drill (2) 10" minimum-depth holes per leg into concrete to allow expansion or epoxy anchors to be properly installed.



- For models 101050 or 101275, set screen sections #2 and #3 (which contain fans and heat floor) on top of base screen section. Install outer screen section supports to the outside screen braces. This must be done before tacking additional sections.
- **NOTE: Outside Screen Braces are not used on Tower Dryer models 10520-10840**

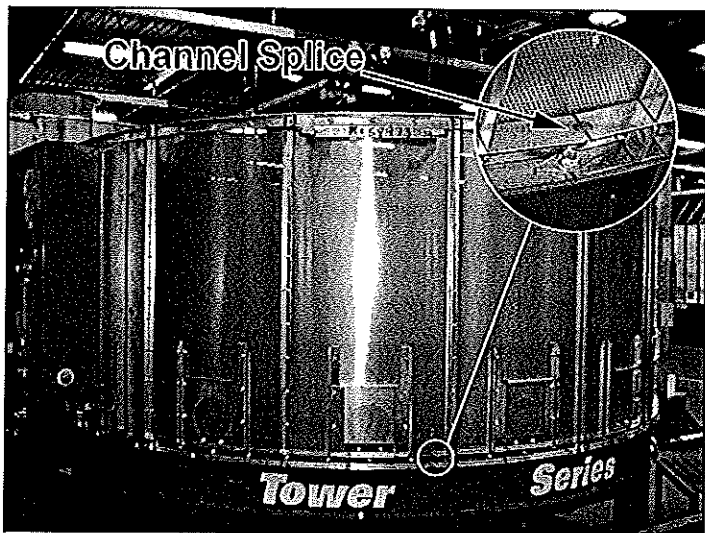
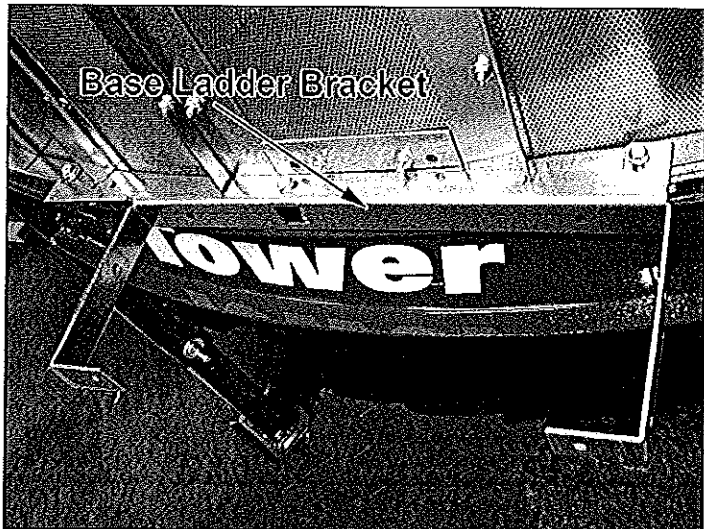


- Remove the Burner Housing from the shipping skid and bolt assembly to the top of the fan housing, which is bolted to the heat floor installed in the second screen section (101050) and third screen section. Use 5/16 x 1" (7.9 x 25.4 mm.) Grade #5 hex bolts and tighten with whiz locknuts.

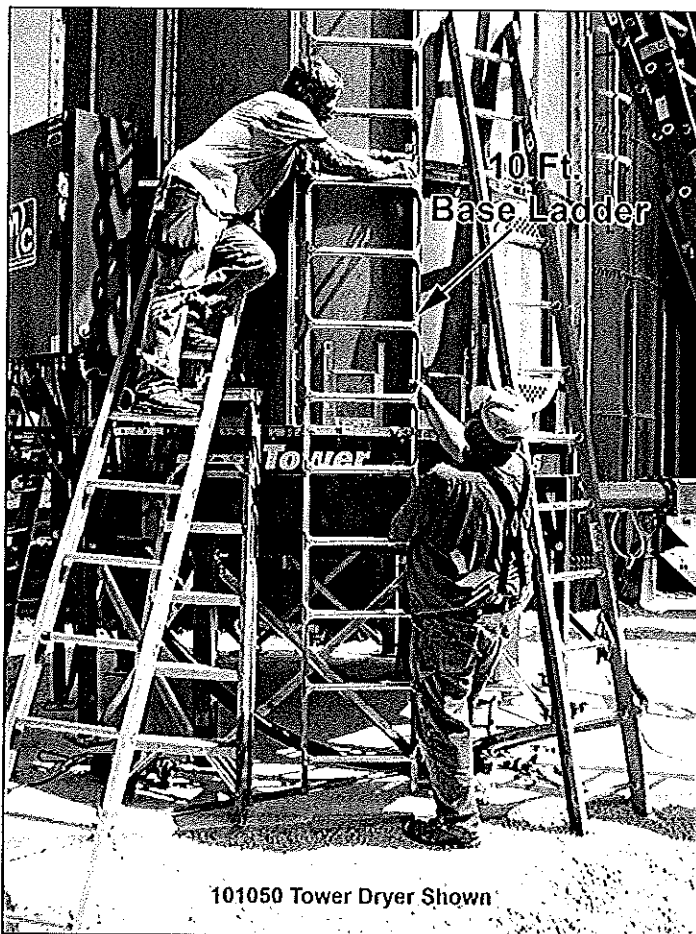


BASE LADDER INSTALLATION

- Install (1) base ladder bracket to the base section by lining the right side up with the Channel Splice found on the base section. Bolt the Base Ladder Bracket using 5/16 x 3/4" Grade 5 hex bolts and tighten using whiz locknuts.



- Bolt the 10' ladder to the Base section using the 5/16-18 x 1" bolts and whiz locknuts.

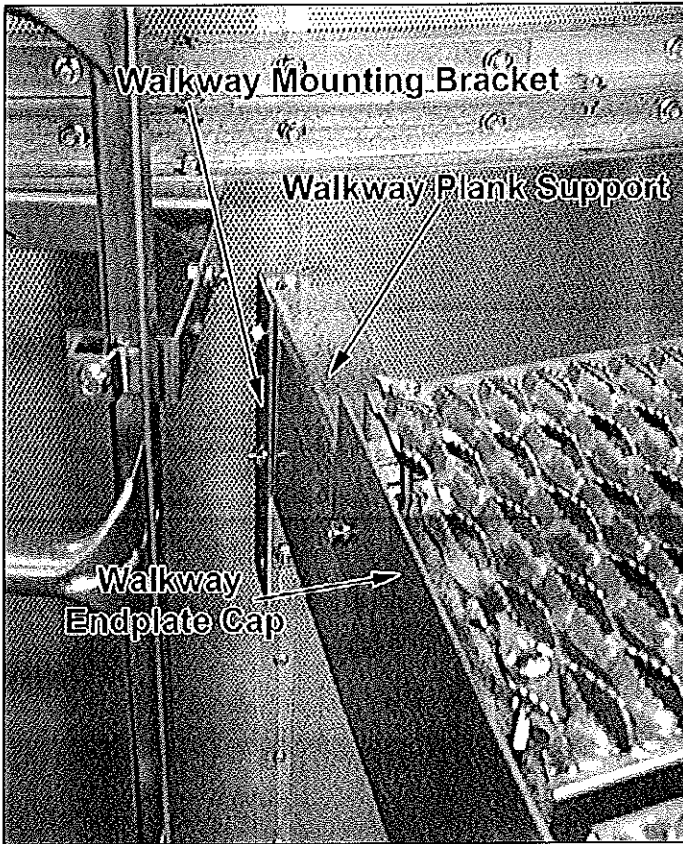


NOTE: Once the ladder is bolted in place, this ladder will serve as a guide to correctly position each double screen section as it is stacked.

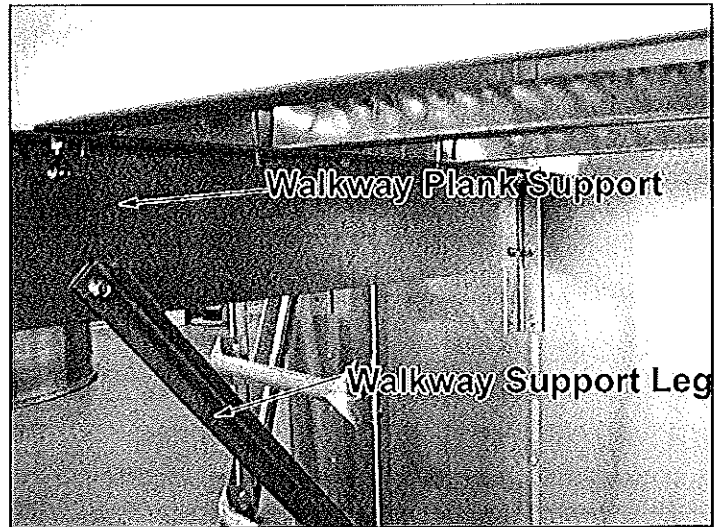
- On Tower Dryer Models 10520-10840, secure the 4' ladder to the bottom of the 10' ladder by using a ladder clip and bolt. Connect the 4' ladder to the concrete using the concrete anchors.

OUTSIDE WALKWAY INSTALLATION

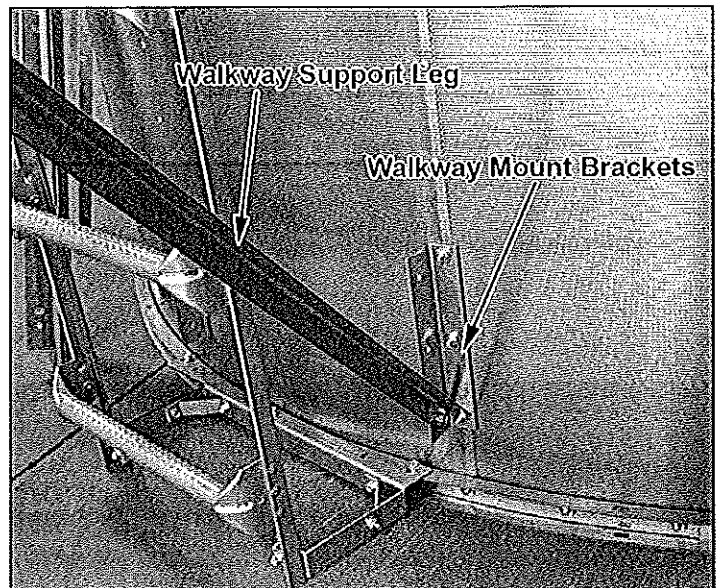
- To install the outside walkway, the (18) walkway mounting brackets are bolted to the screen section that will hold the walkway. The top (9) walkway mounting brackets are where the (8) Walkway Plank Supports (RH) and the (1) Walkway Plank Support (LH) are to be bolted to the screen section. Use 3/8-16 x 3/4" Hex Washer Head Bolts and Whiz Locknuts on all walkway parts except for the floor panel anchors, which require 5/16-18 x 3" Carriage Bolts, Flatwashers, and Whiz Locknuts.



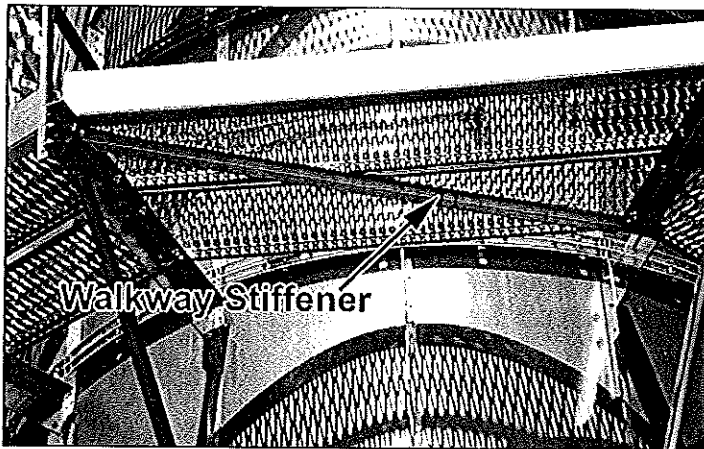
- Now bolt the (1) walkway plank support, which has a top flange that is bent to the left, so the top walkway mounting bracket is just to the left of the ladder.



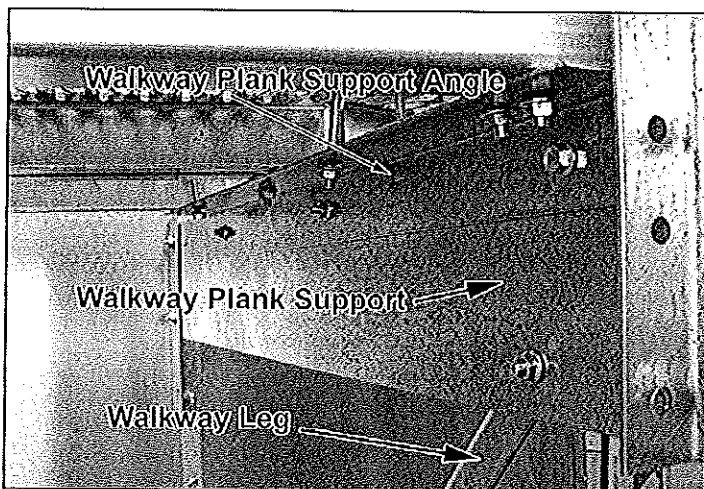
- Bolt the top of the (9) walkway support legs to the second bottom hole from the front edge of the walkway plank supports and the bottom hole of the legs to the bottom hole of the bottom walkway mounting brackets.



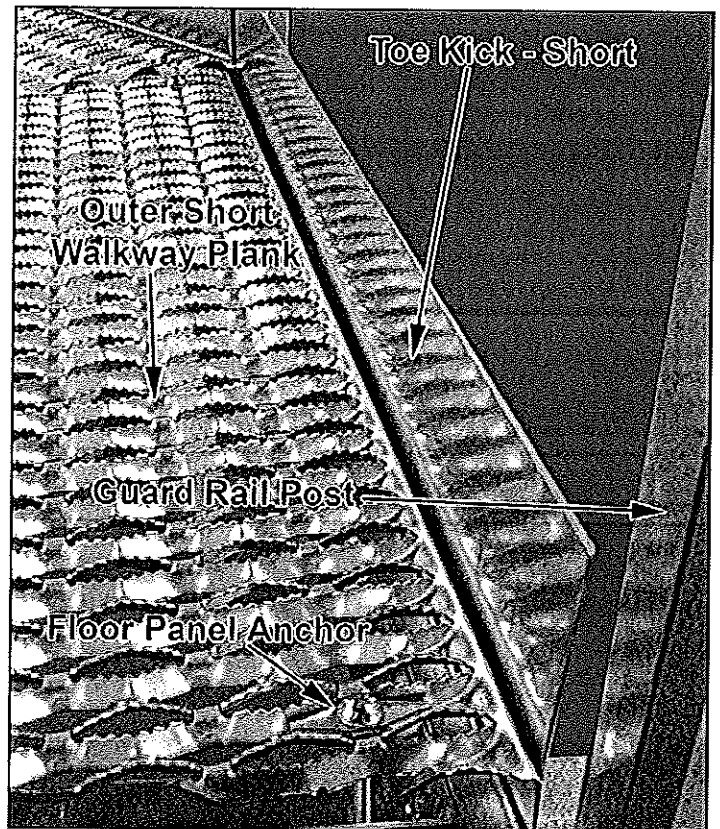
- Once the (9) walkway support legs have been bolted in place, there are (2) walkway stiffeners that must be installed between the second and third plank supports and between the eighth and ninth supports. The top side of the stiffeners have a bolt hole at both tapered ends, which must face in toward the screen section.



- The tapered end of the stiffener that bolts to the outside end of the second walkway plank support will share a bolt with the first toe kick-long to the right of the ladder.
- The second stiffener will also share a bolt with the last (seventh) toe kick-long when the stiffener is bolted to the top outside hole of the eighth walkway plank support.
- Install walkway plank support angle. Make sure the top of the plank support angle is flush with the plank support.



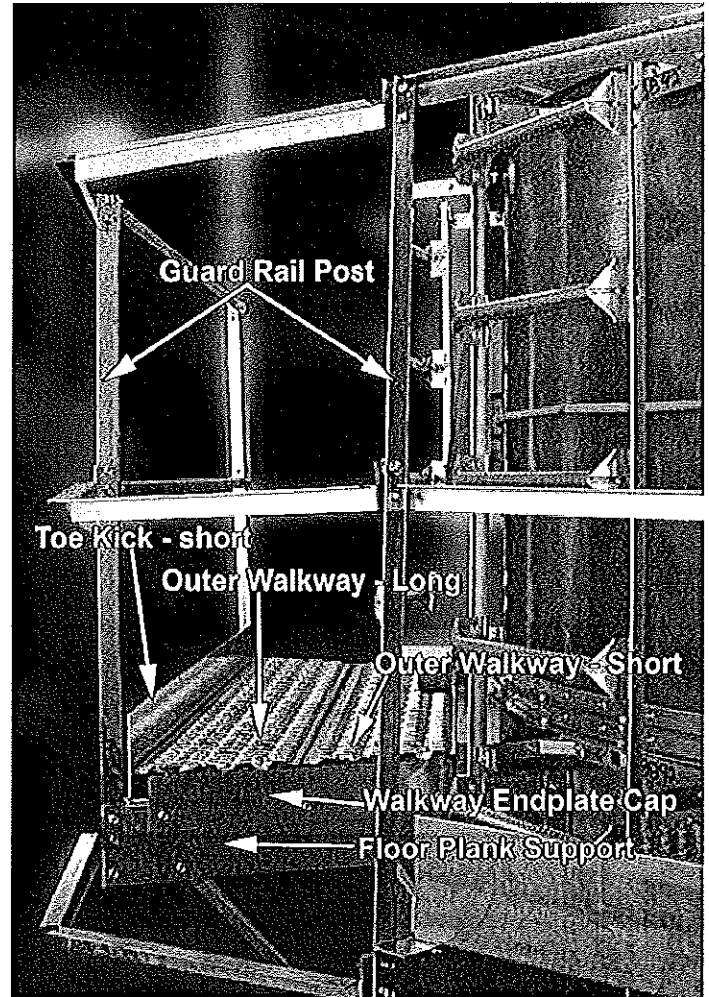
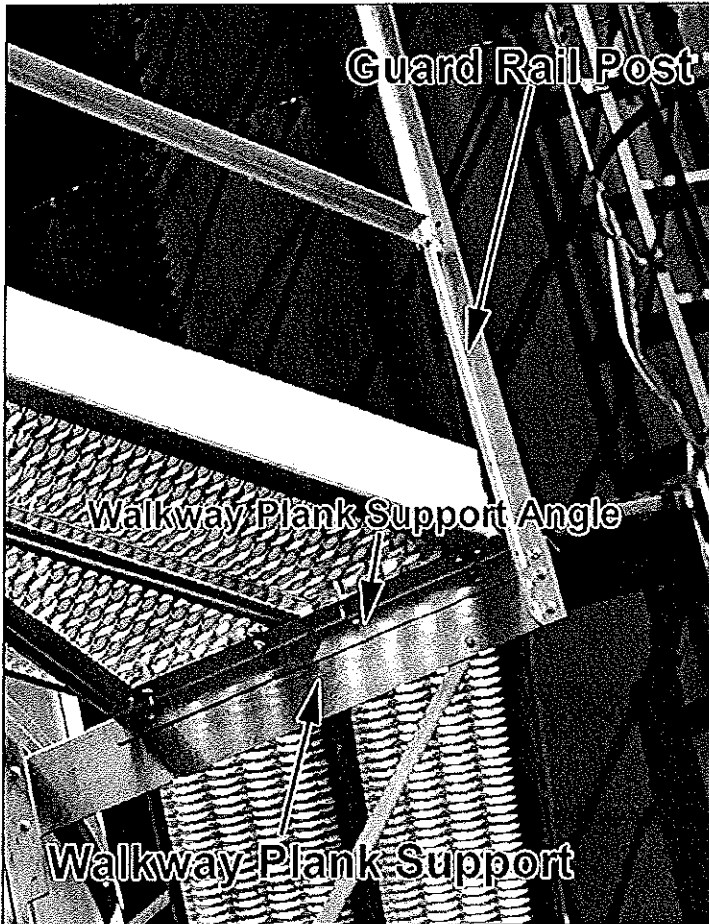
- Now bolt the (7) toe kick long #475712 around the outside edge of the walkway panel supports.
- Place the inner and outer short walkway planks onto the (2) walkway plank supports to the right of the ladder. Use (2) floor panel anchors, 5/16-18 x 3" (7.0 x 76mm) carriage bolts, flatwashers, and whiz locknuts at each end of the planks. Anchors under bolt head and flatwashers next to the locknut. Use slotted holes in plank support. Now do the same thing with the inner and outer walkway planks-long, working around screen section to the ladder.



- Place the (1) toe kick-short onto the (2) walkway plank supports just to the right of the ladder. There is a hole at the outside edge of each walkway plank support where the Toe Kick is to be bolted.

- Bolt (1) of the endplate caps to the left side of the first walkway plank support to the right of the ladder. The other endplate cap is bolted to the right side of the walkway plank support that is just to the left of the ladder.
- Now bolt the (9) guard rail posts to the left side of each walkway plank support. The outside corner of the rail post should face the screen section, leaving a flat surface upon which to mount the guard rails. When the rail post is installed correctly, the (3) bolt holes in the rail post will match perfectly with the (3) holes in the plank support. If only portions of the (3) holes line up, the rail post is not installed correctly.

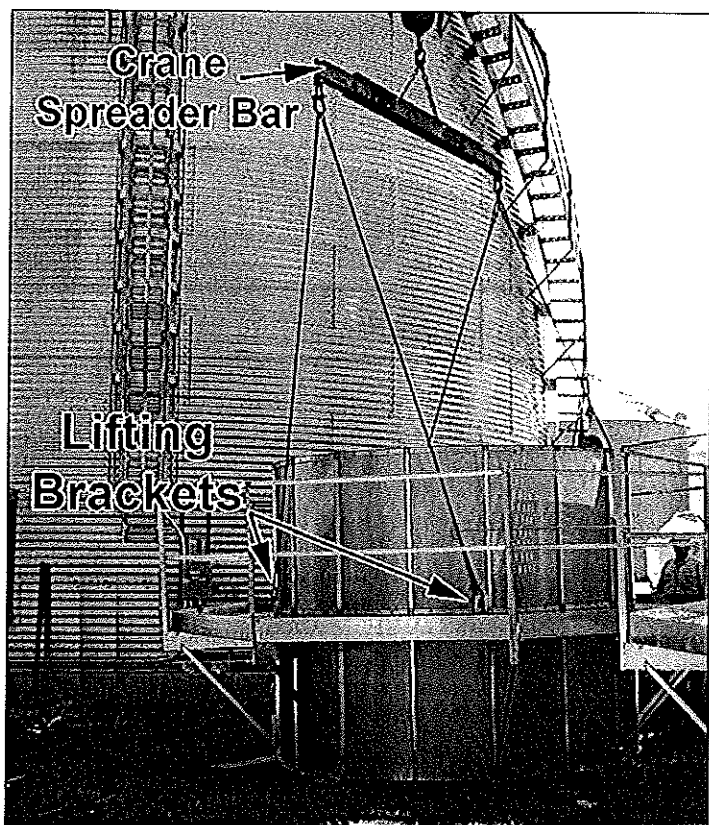
- Bolt the field formed safety cage angles to the guard rail post.



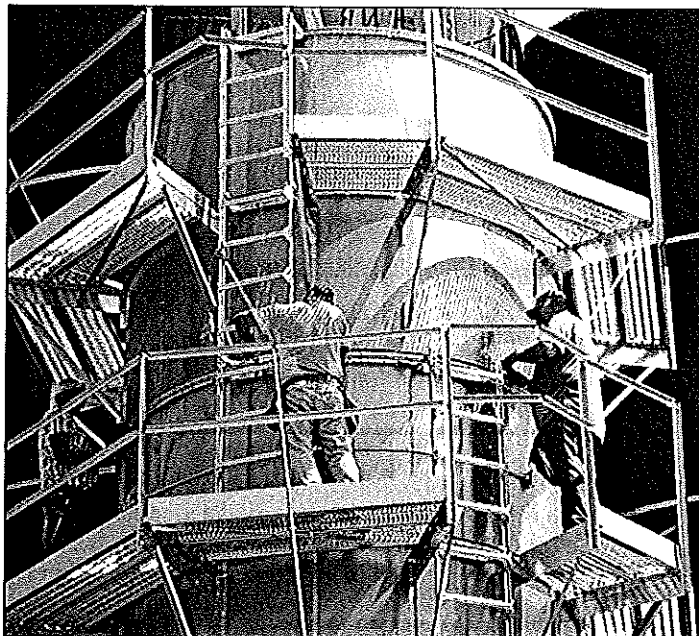
- Place the (2) guard rails-short between the first and second guard rail posts that are just to the right of the ladder. The top flange of the guard rail should face away from the screen section.
- Now place the (14) guard rails-long between the remaining guard rail posts. The top flange of the guard rail should face away from the screen section.

STACKING SCREEN SECTIONS AND ROOF

- With the outside walkway installed, the screen sections are ready to be placed into position on top of the base section. Refer to page 25 for walkway orientation.
- Be sure that the base is level and anchored to the foundation using concrete anchors.
- Attach crane spreader bar hooks to lifting brackets bolted to the center outer channel rings of the third and fourth double screen section on Tower Dryer models 10520-10840 (fourth and fifth screen section on Tower Dryer models 101050 and 101275) and place them onto the second screen section using drift pins to align the holes in the channel rings. Use 5/16 x 3/4" (7.9 x 19mm.) hex washer head capscrews and whiz locknuts.

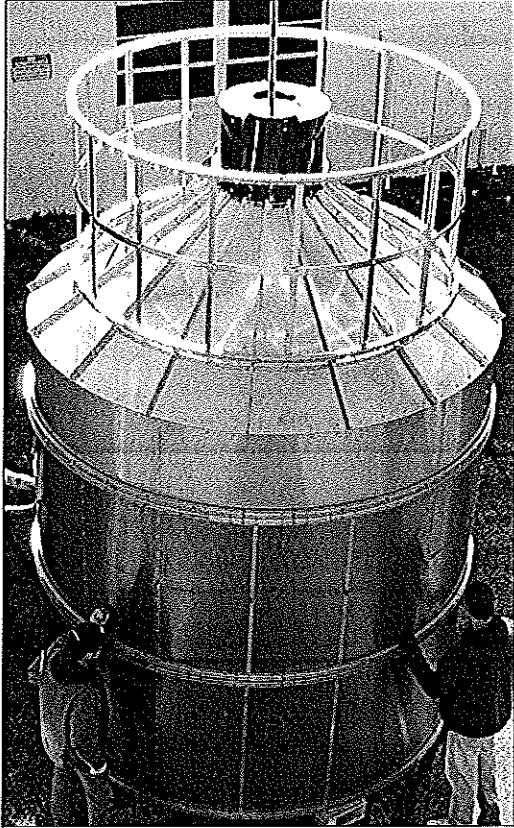


- On the 101050 and 101275 Tower Dryer Models, sections eight and nine will shift 35 degrees (rotating the section based on the walkway plank supports, by three sections. Refer to the walkway orientation on page 22 for specifications) to create a transition point for the outer walkways. All remaining upper sections will be stacked according to the lining of the ladders.



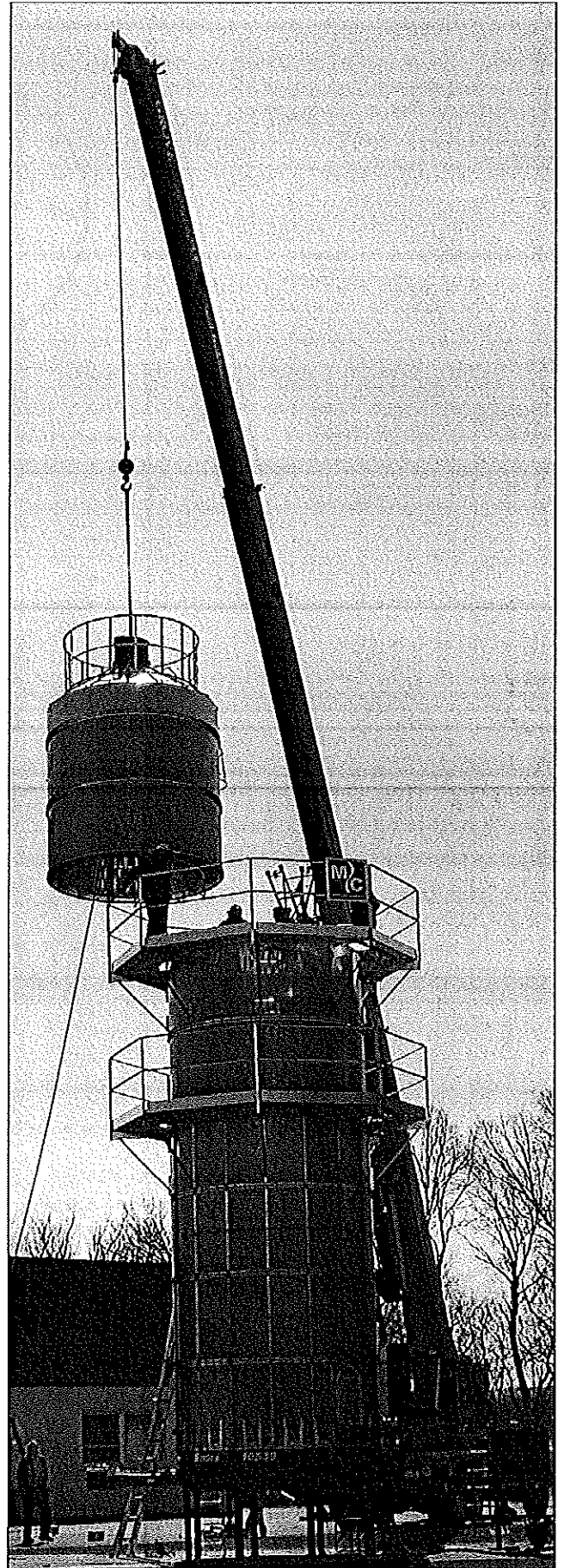
- Now use the same procedure for the remaining 4 ft. and 8 ft. screen sections or use the inside walkway support gussets that connect the inner walkway platform to the inner screens to attach the crane spreader bar hooks and lift the screen sections.
- As screen sections are placed onto the section below, the (2) Inside Channel Ring splice joints should align with the (2) splice joints of the Outside Channel Rings of the screen section below. When positioned correctly, all screen seams should line up.

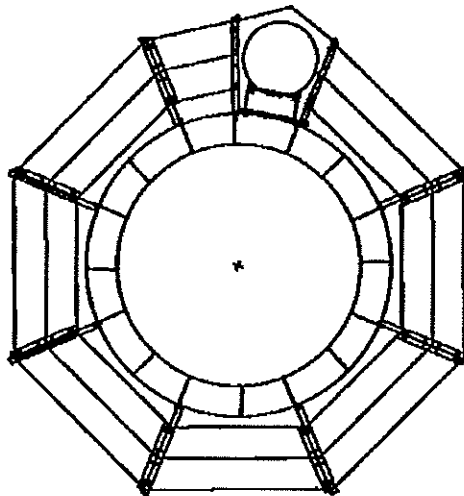
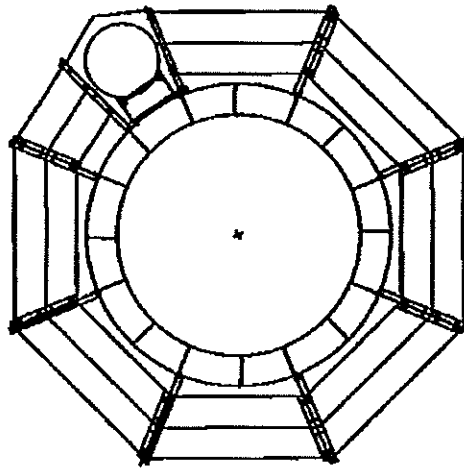
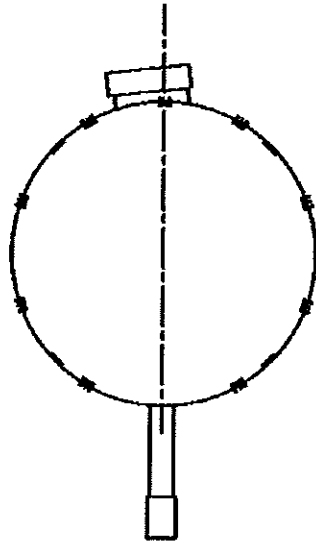
- The top 4 ft. screen and roof section is lifted by placing the crane lift hook in to the "U" Bolt attached to the roof cap. Use ladders for correct positioning and drift pins to align holes in channel rings. Use 5/16 x 3/4" hex washer head capscrews and 5/16" whiz locknuts to secure inner and outer channel rings to lower screen section.



IMPORTANT: If the dryer has not been completely erected by the end of the day, it **MUST** be guy wired to prevent blow-over damage from wind.

NOTE: After all screen sections are installed, the Gas and Electrical components can be started.



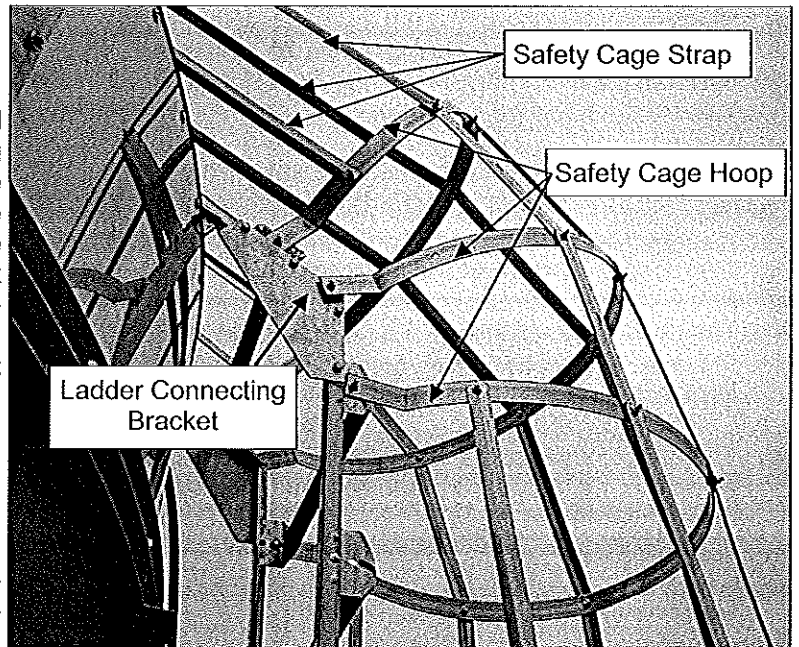


WALKWAY ORIENTATION

LADDER SAFETY CAGE ASSEMBLY

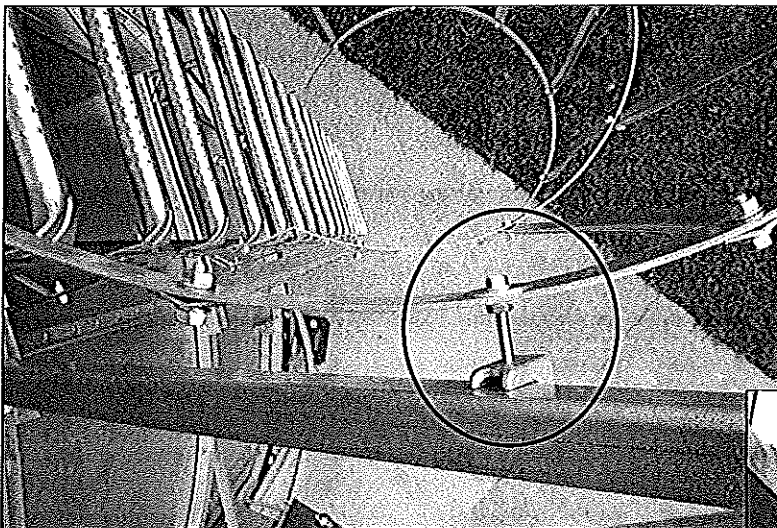
NOTE: Ladder Safety Cages may be assembled starting from the top of the tower and working down using the Cage Straps and Safety Cage Hoops. They may also be assembled on the ground and placed into position with the crane. Use the 5/16-18 x 3/4" Grade #5 hex washer head bolts and whiz locknuts where only two pieces join and 5/16-18 x 1" bolts where three pieces are joined. See correct model layouts from pages 29-40

- The safety cage for the one 5 ft. ladder mounted on the roof and the one 6 ft. ladder bolted to the top 4 ft. screen section attached to the roof, require two hoops and four 4 ft. Cage Straps each.
- The safety cage hoop at the bottom of the 5' ladder and the safety cage hoop at the top of the 6' ladder will bolt onto the ladder connection brackets.
- The distance between the ladders is enclosed with four 2' cage straps and one cage hoop. The safety cage hoop is bolted to the ladder connecting brackets. One end of a connecting strap has a 30° bend that is bolted to the lower loop. Two connecting straps connect up to the roof ladder cage and two connect down to the top section ladder cage. All connecting straps will share a 5/16-18 x 1" bolt with a hoop and ladder strap.

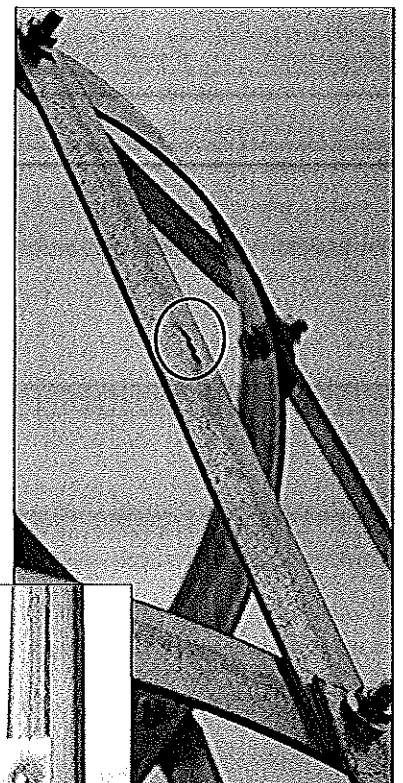


Cage straps are punched with different numbers of holes to differentiate the lengths from one another.

See page 75 for further detail on the number of holes punched in each cage strap.



The bolt connecting the safety cage hoop to the walkway support plank at the top of the ladder, is reinforced by a washer and bracket as seen above.



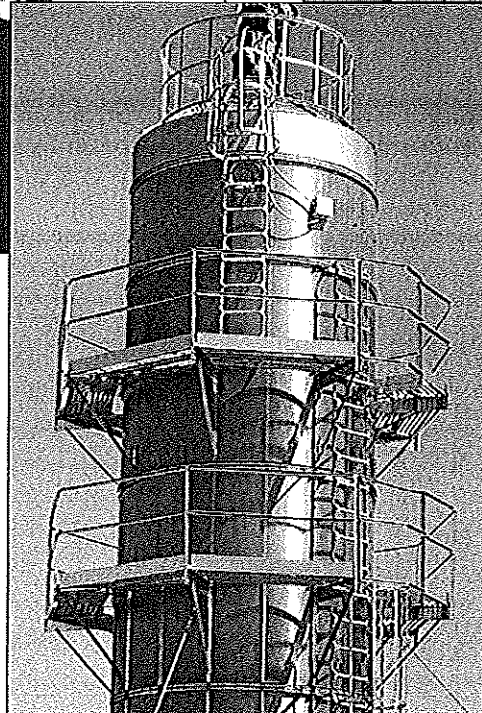
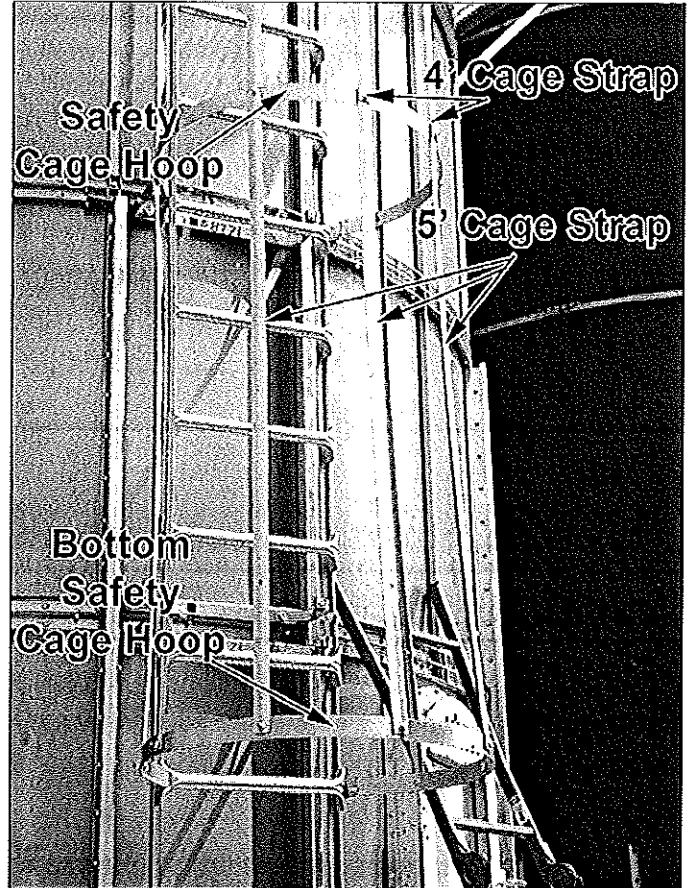
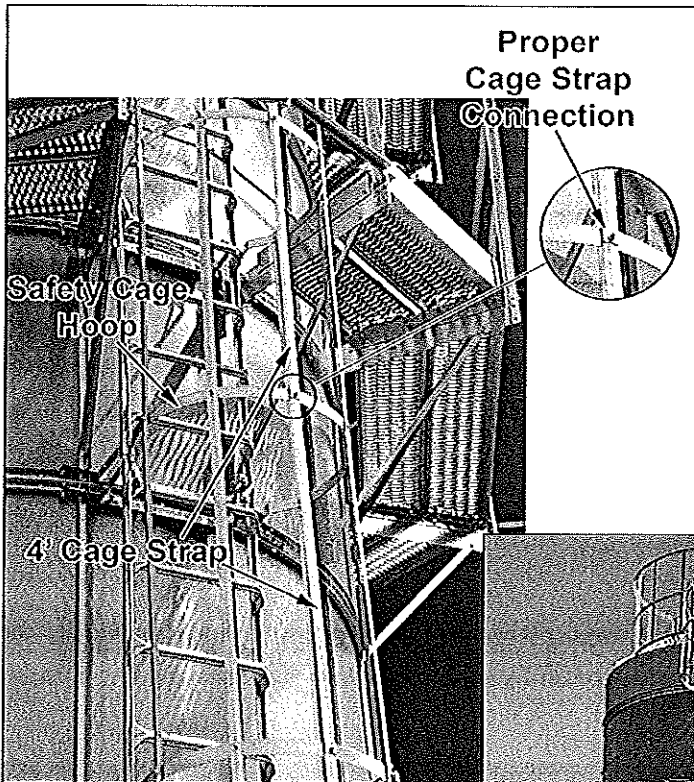
Install a fender washer on each ladder run to protect against structure fatigue

- Starting with the top of the 6 ft. ladder, bolt (1) safety cage hoop to the ladder every 4 feet. The distance between the last safety cage hoop and the bottom safety cage hoop will be 5 feet.

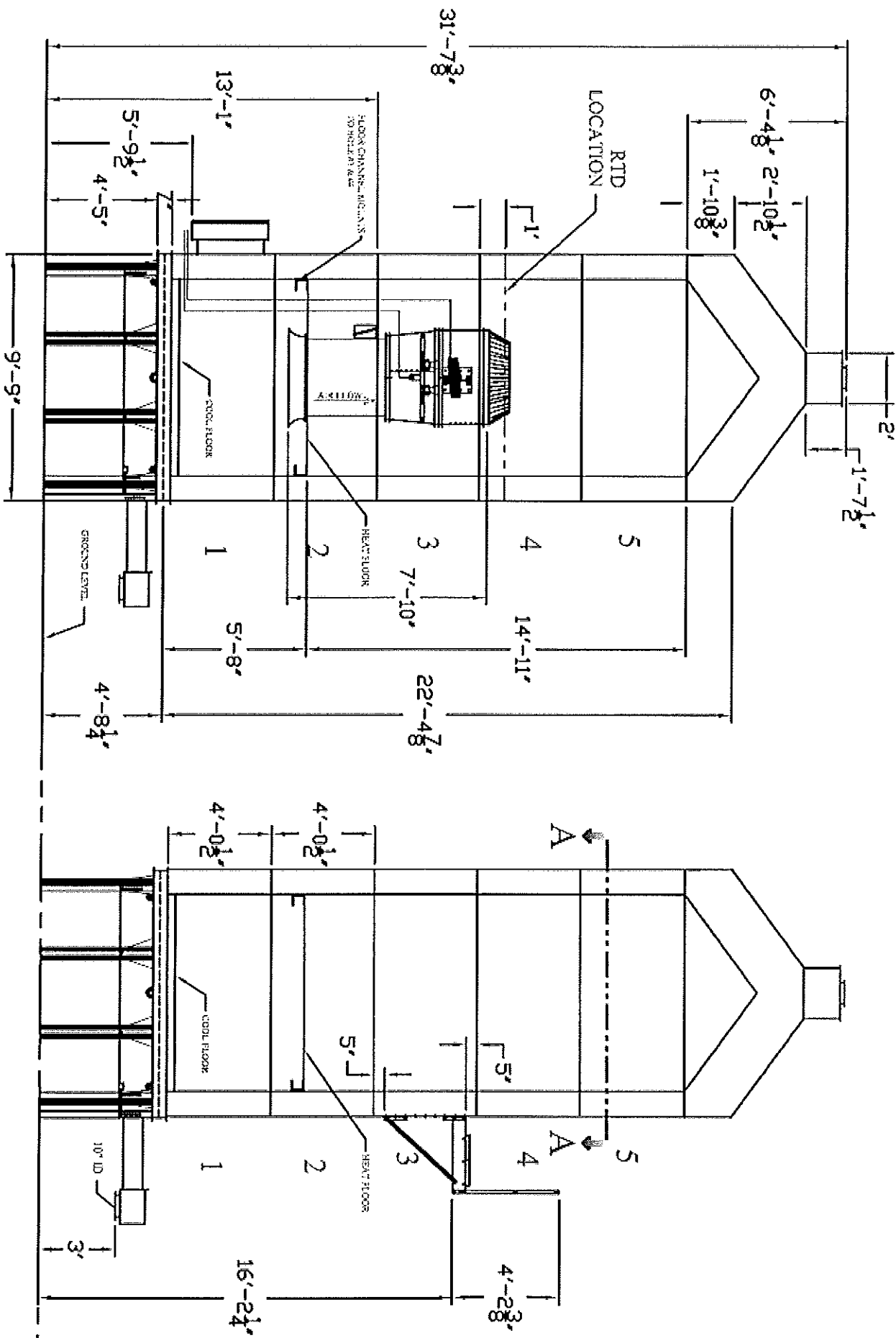
Note: The bottom safety cage hoop has a wider circumference than the regular safety cage hoops to accommodate the angle at the bottom of the 5 ft. cage strap.

- The upper holes of the top 4 ft. straps are bolted to the cage hoop of the ladder cage directly above, sharing the 5/15-18 x 1" bolts and locknuts.
- The bottom holes of the top (4) 4 ft. straps that complete the cage share the same bolts that are used for the upper holes of the (4) straps used in the lower 4 ft. ladder cage.

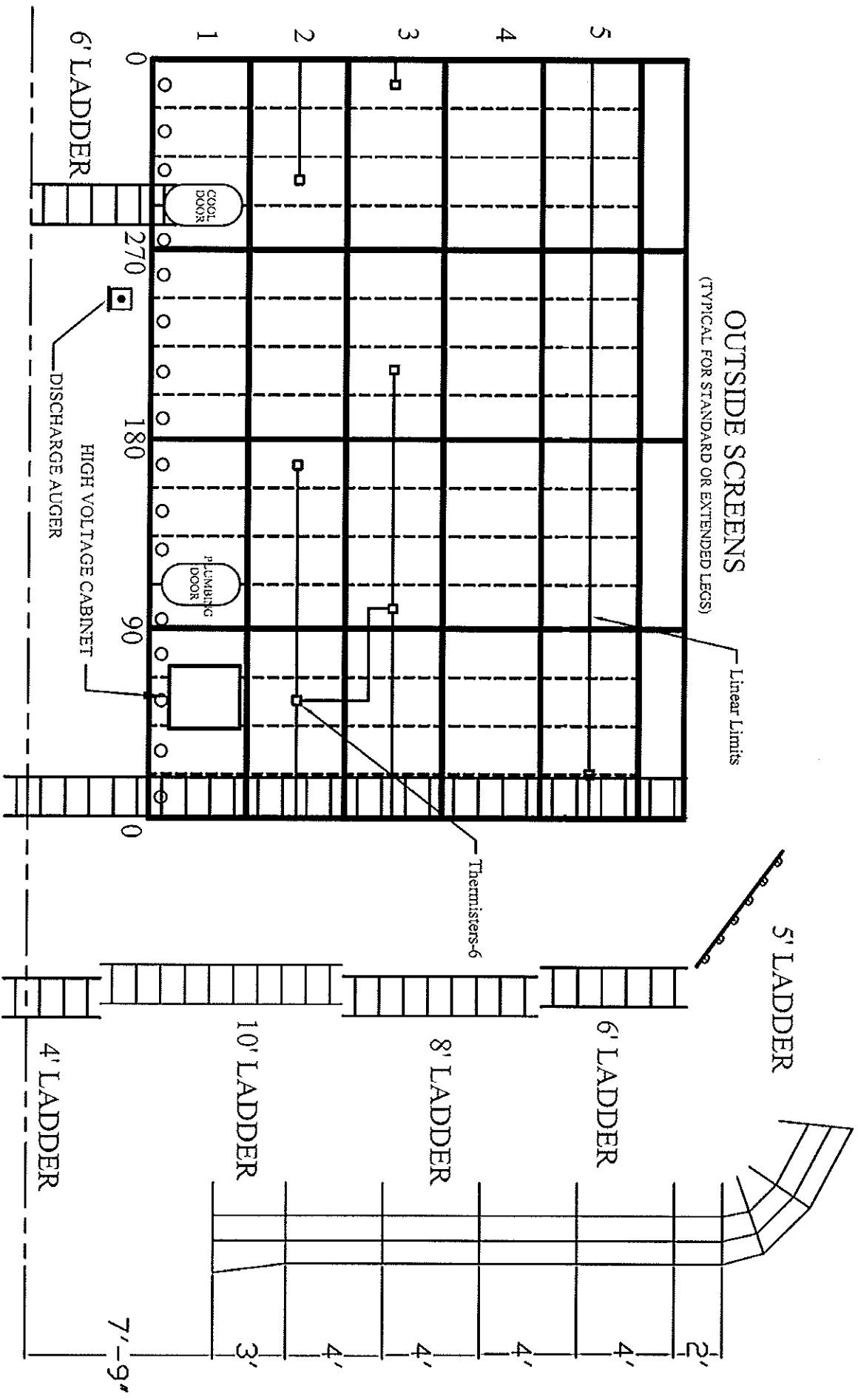
- The ends of the 5 ft. cage straps are bolted to the bottom cage hoop of the ladder cage directly above sharing the 5/16018 x 1" bolts and locknuts.
- Remove the 4' inside ladder from its brackets. Rotate the ladder 180 degrees. Bolt the ladder to the brackets. Drill holes in the bottom ladder brackets and bolt the bottom of the ladder to the floor.



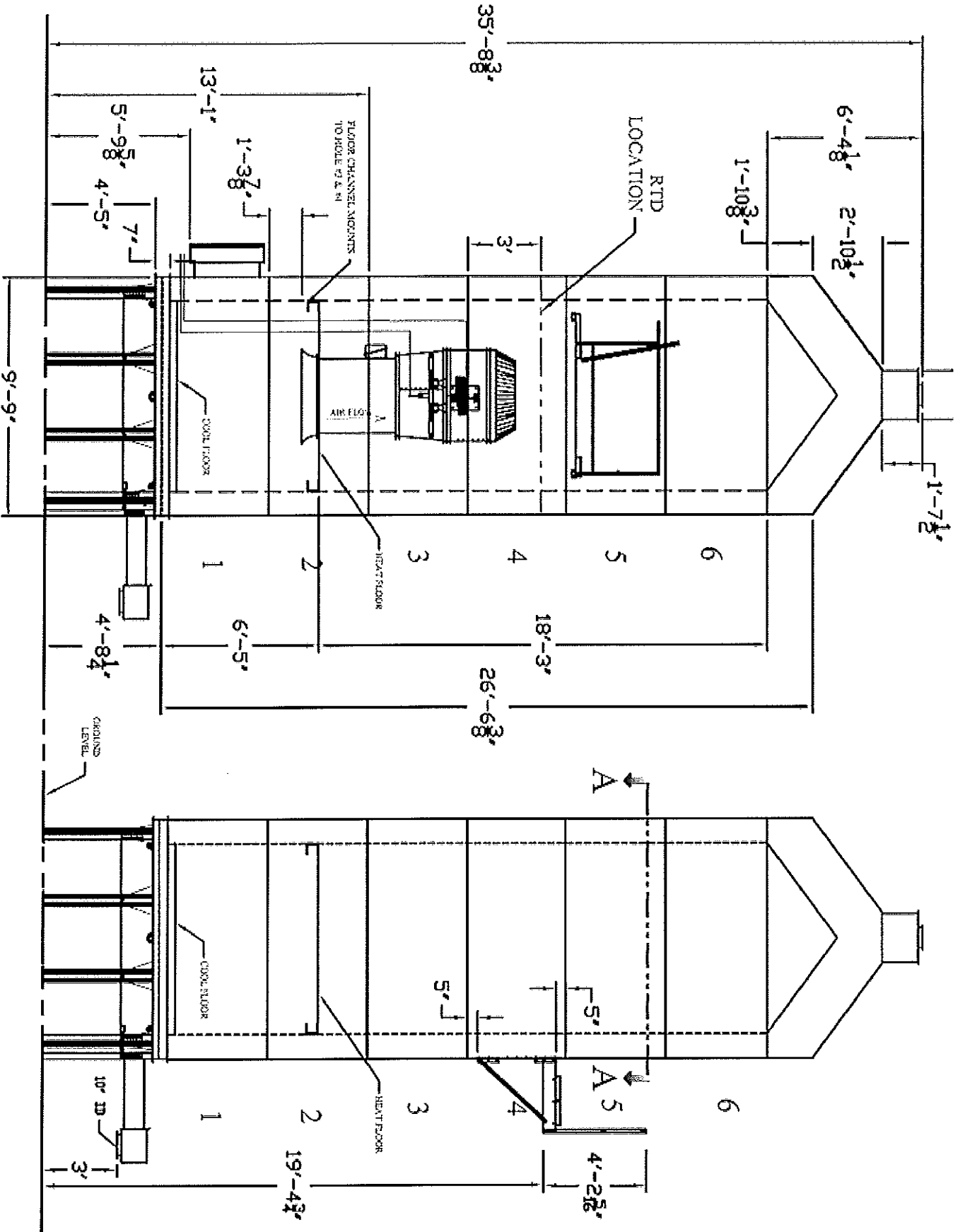
10520 LADDER & SAFETY CAGE ORIENTATION



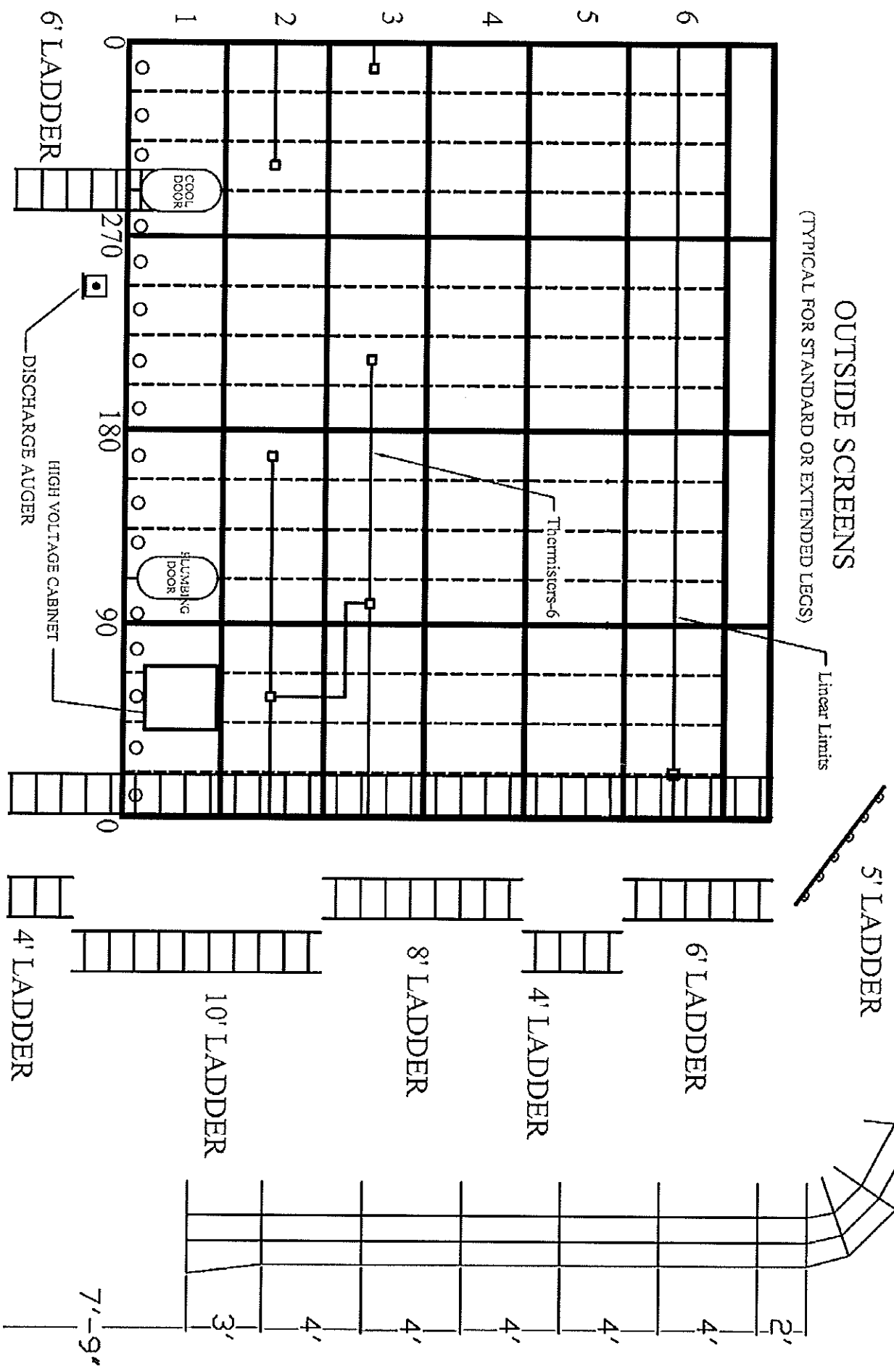
10520 LADDER & SAFETY CAGE ORIENTATION



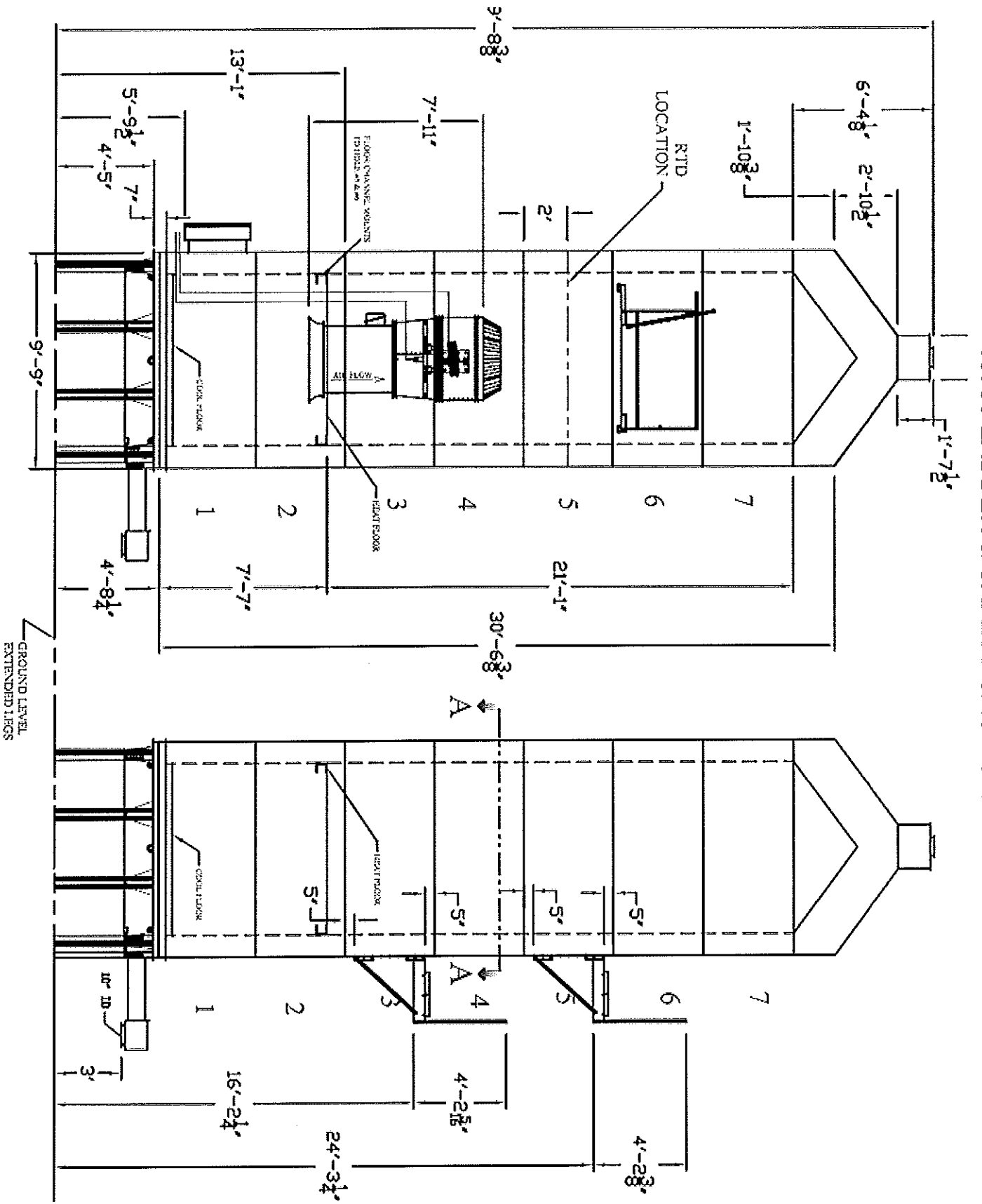
10630 LADDER & SAFETY CAGE ORIENTATION



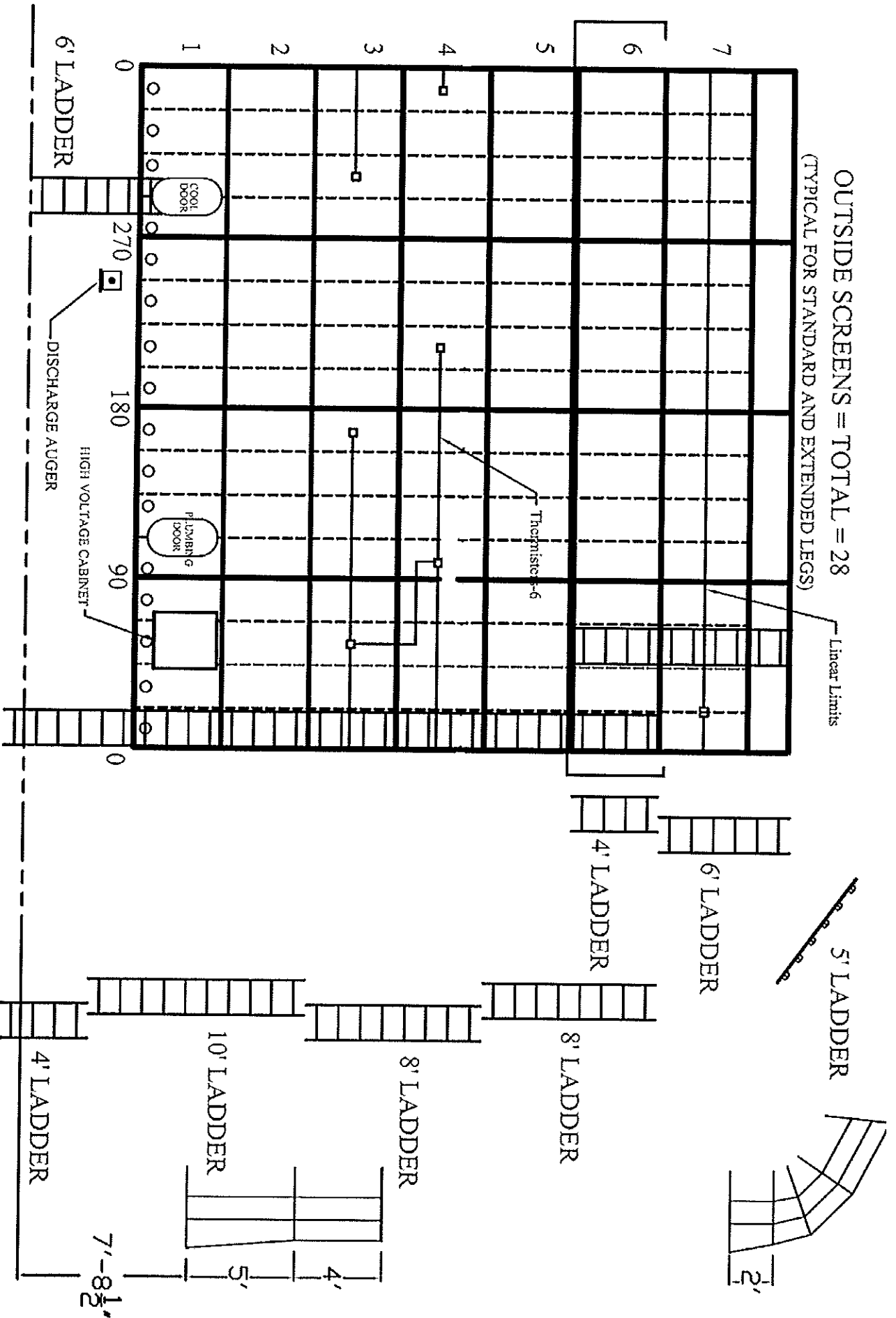
10630 LADDER & SAFETY CAGE ORIENTATION



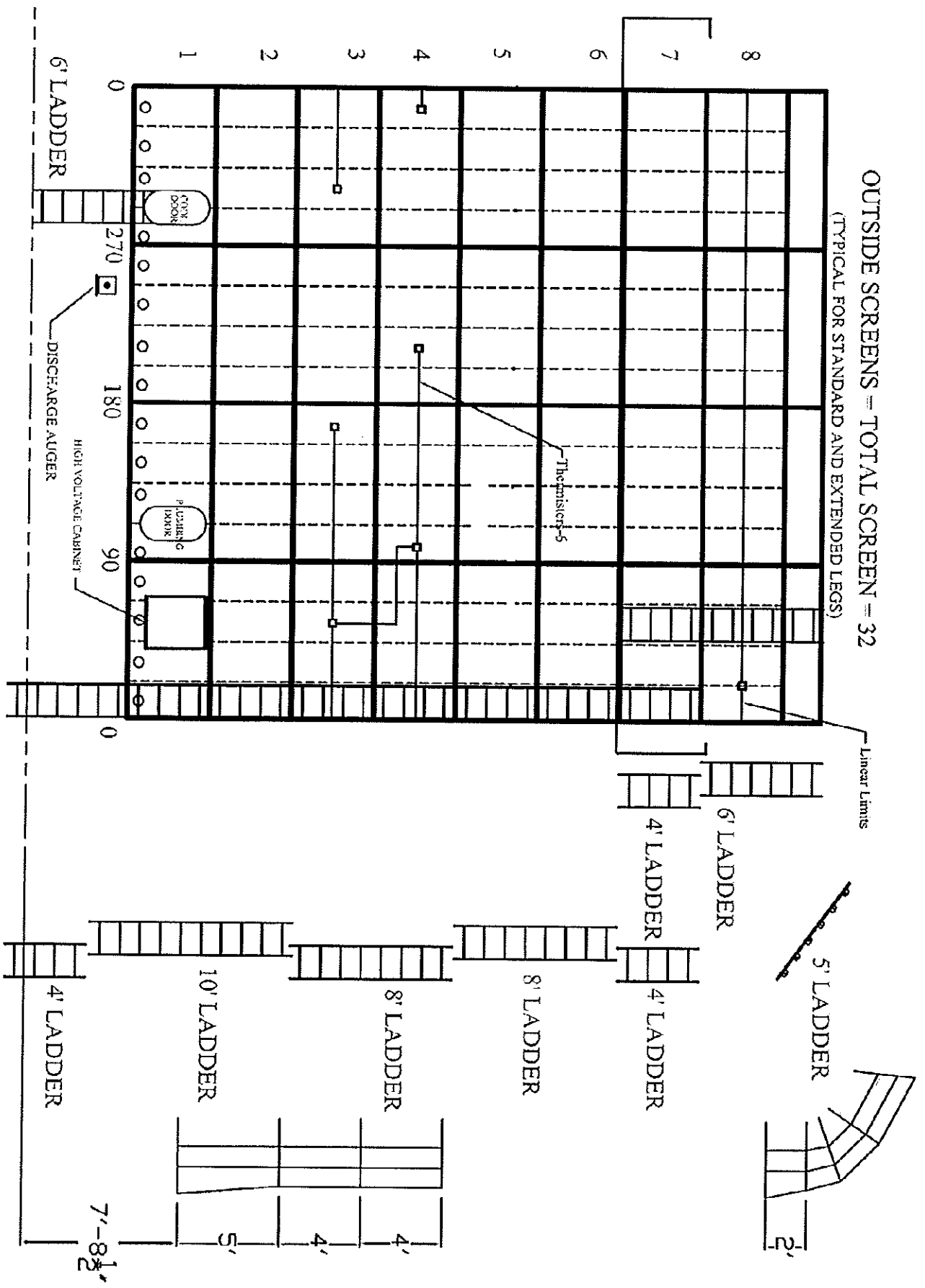
10730 LADDER & SAFETY CAGE ORIENTATION



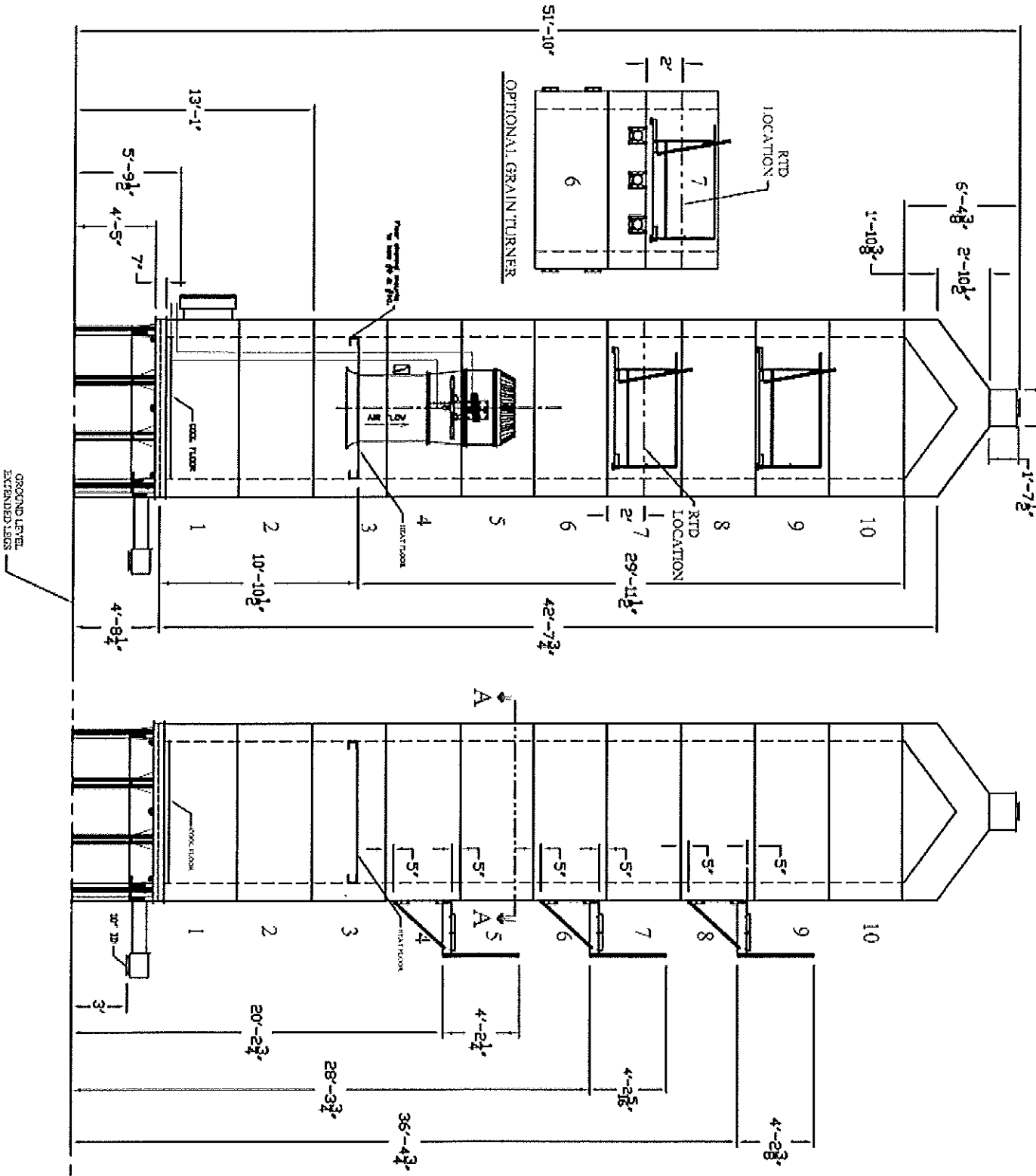
10730 LADDER & SAFETY CAGE ORIENTATION



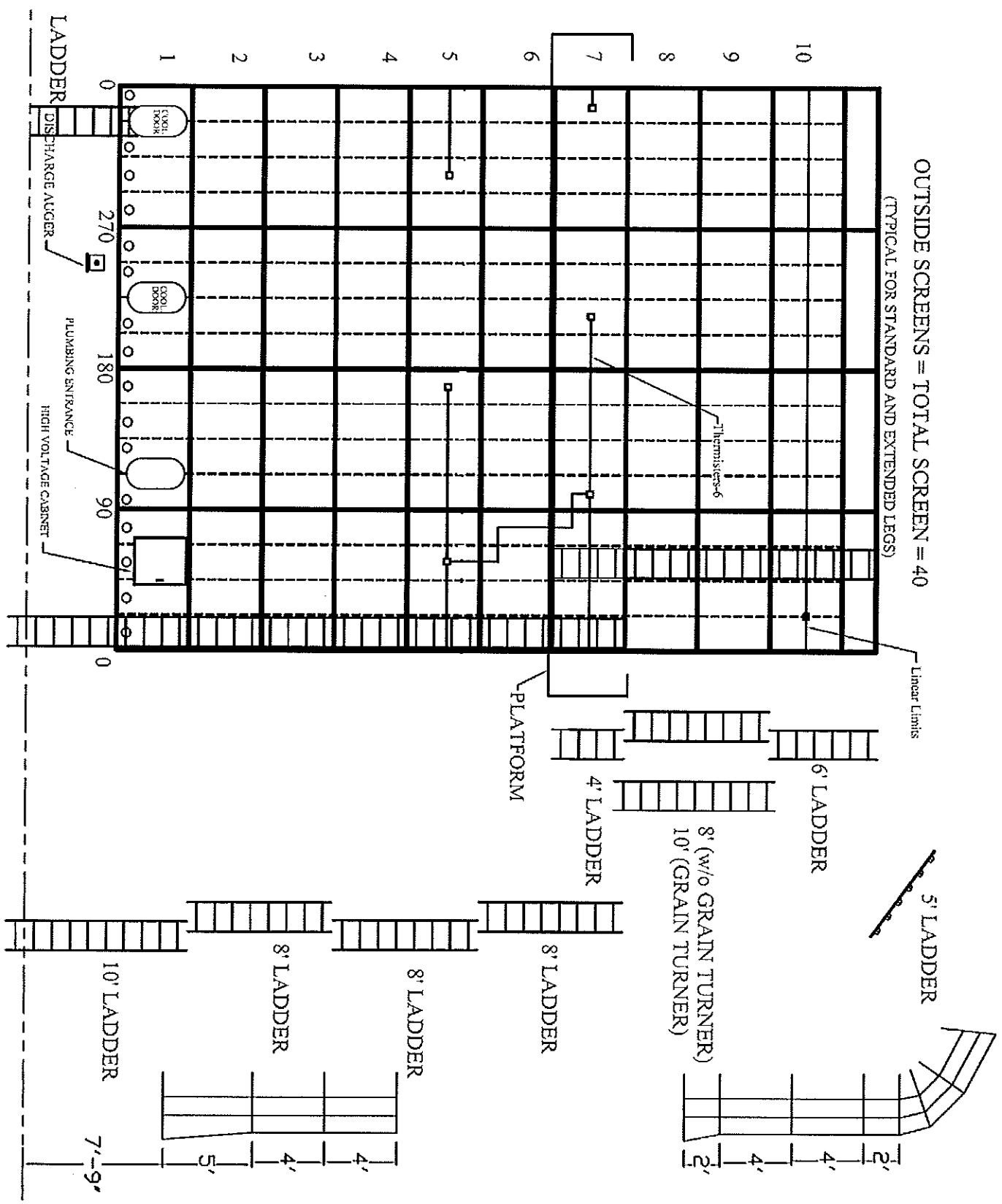
10840 LADDER & SAFETY CAGE ORIENTATION



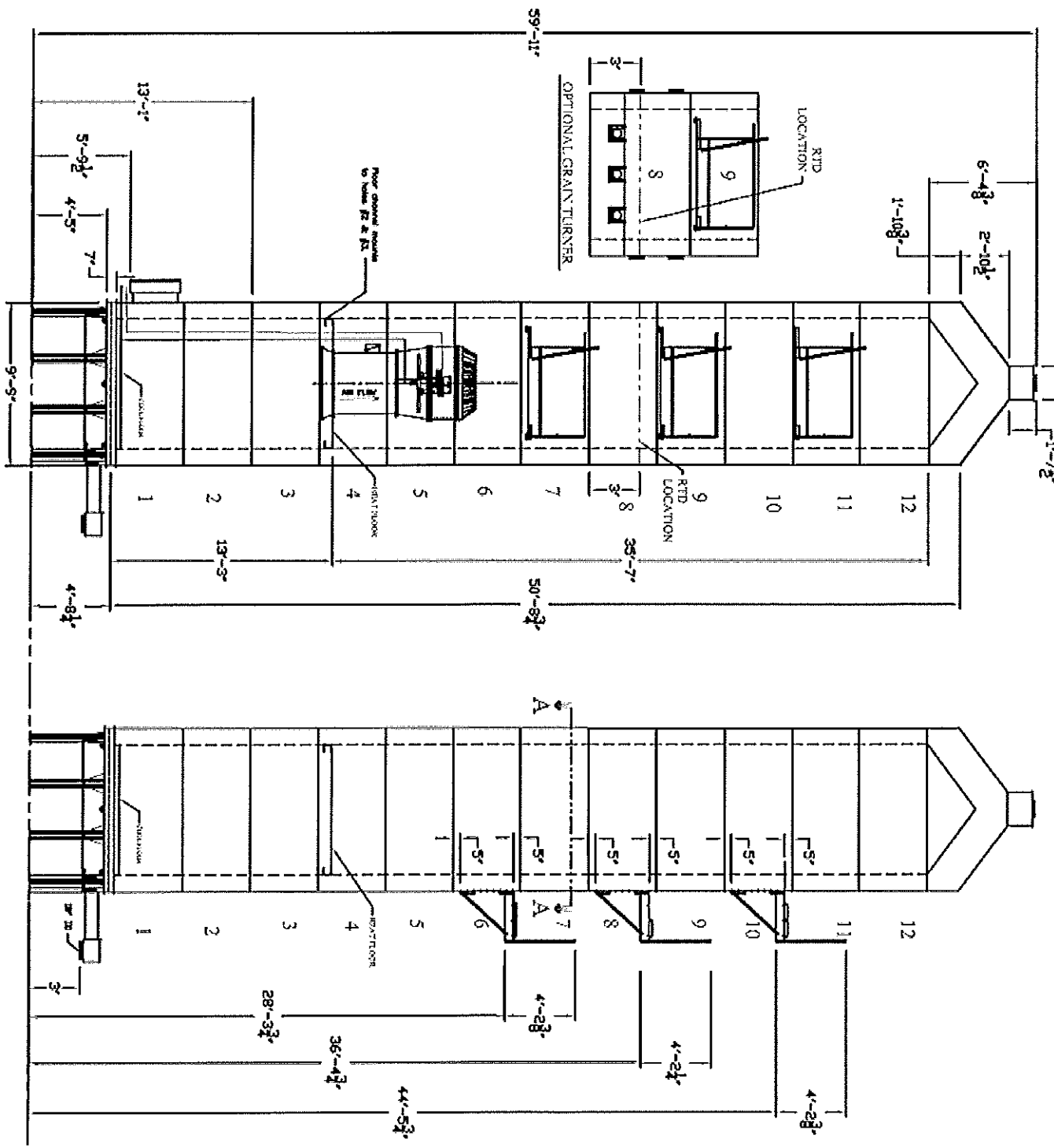
101050 LADDER & SAFETY CAGE ORIENTATION



101050 LADDER & SAFETY CAGE ORIENTATION

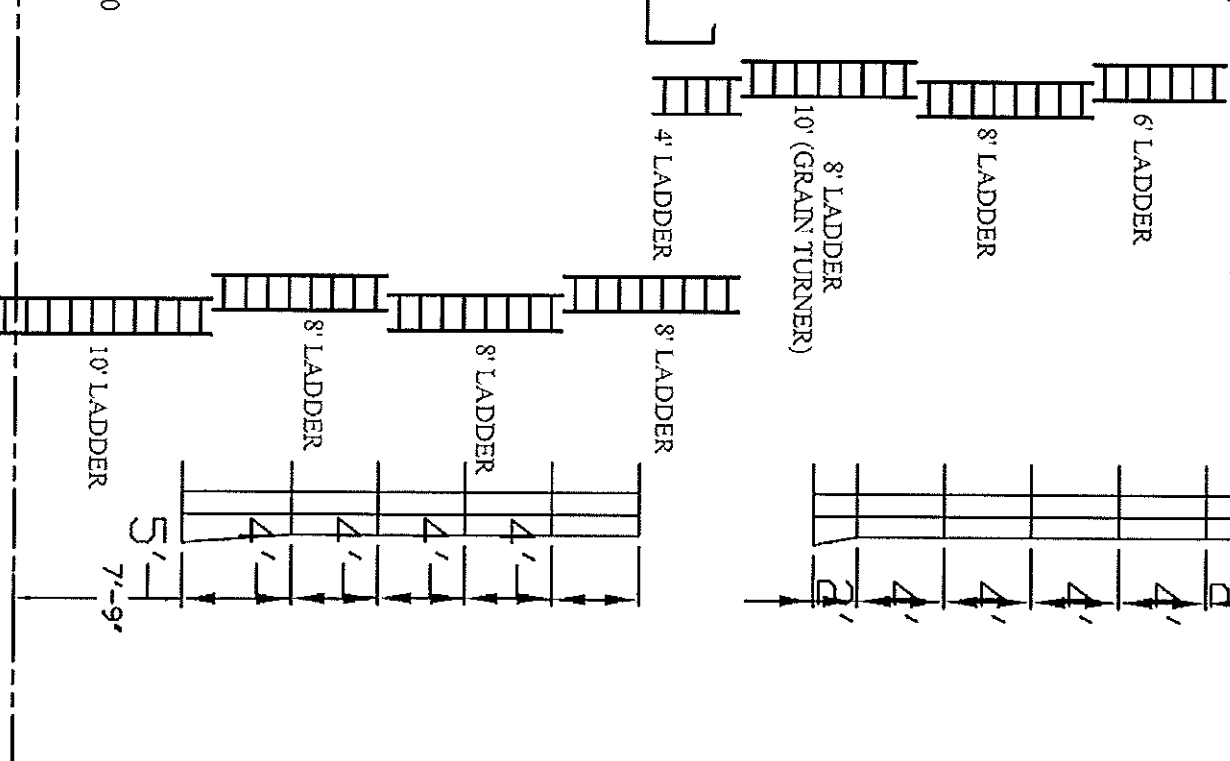
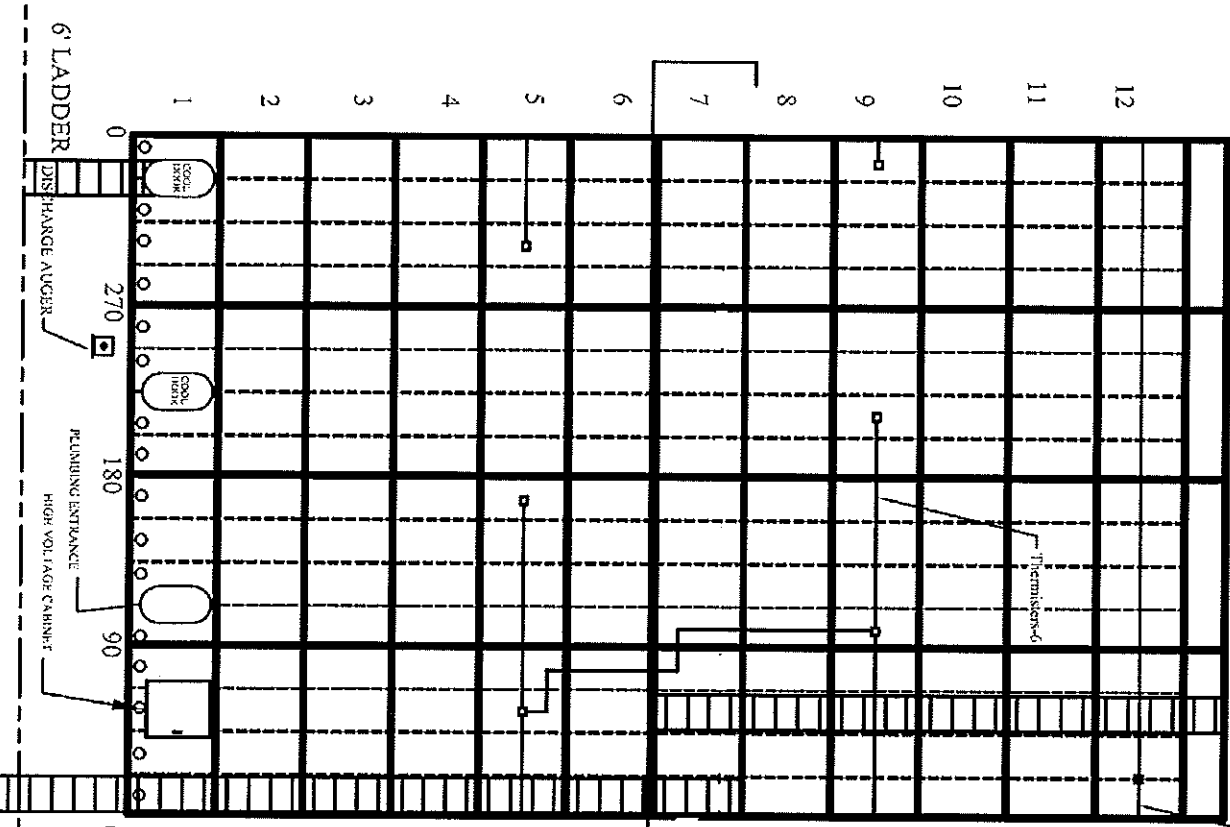


101275 LADDER & SAFETY CAGE ORIENTATION



101275 LADDER & SAFETY CAGE ORIENTATION

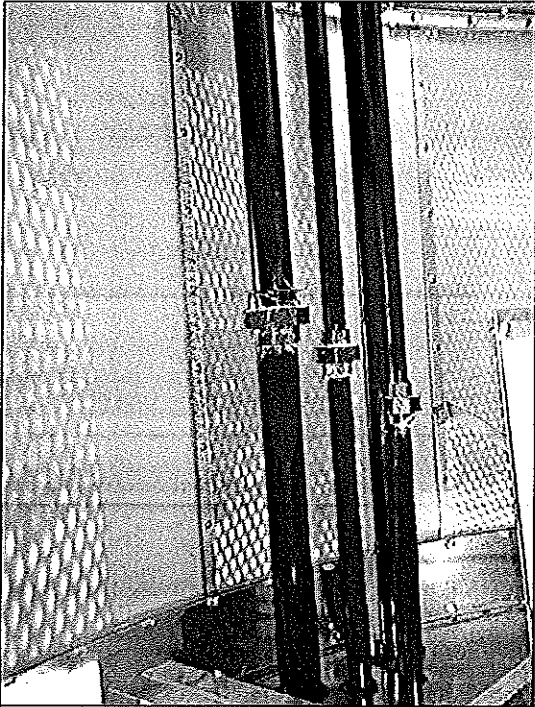
OUTSIDE SCREENS = TOTAL SCREEN = 48
 (TYPICAL FOR STANDARD AND EXTENDED LEGS)



Installation of the (4) Clean-Out Pipes (101050 & 101275)

The (4) Clean-Out Pipes 1¼ x 88¾" (101050) and 1¼ x 120" (101275) must be installed between the bottom of the heat floor and the top of the cool floor. Each pipe will have a floor flange installed on the threaded top end of the pipe.

The other end of the pipe is not threaded and will just slide through the clean-out floor seal and pipe gasket that must be bolted to the cool floor. Use 5/16 x ¾" HWHCS and whiz locknuts to bolt floor flanges and seals to heat and cool floors.



Burner Gas Piping

NOTE: When connecting any gas fittings, it is best to use yellow Teflon Tape and non-hardening Teflon-based pipe sealant.

Check for leaks after electric connections are complete. Open all hand valves and spray the plumbing with a water and soap combination. The gas leaks will create bubbles, showing the leaks' locations.

Natural Gas

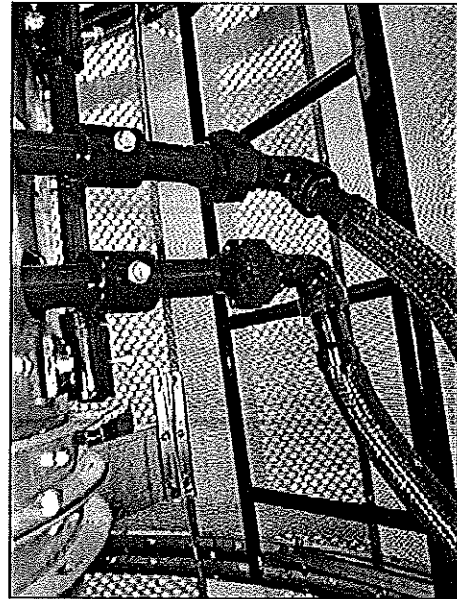
All natural gas burners require only (1) Gas Supply line to be connected to the Burner. Models 10520, 10630, and 10730 use a 1½" (38mm) gas line and Models 101050 and 101275 use a 2". Both size natural gas supply lines are connected to the burner with a stainless steel braided hose and either 1½" or 2" unions. (1) of the 2" unions has a 2" to 1½" reducer bushing to connect to the stainless steel braided hose.

Liquid Propane

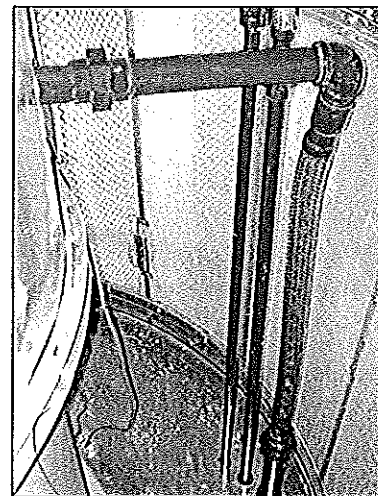
There are (3) gas lines to be connected:

- (1) ¾" Liquid Propane Inlet Line leading to the Vaporizer
- (1) 1" piping from the Vaporizer to the Manifold Train
- (1) 1½" or 2" (depending on the dryer model) piping from the Manifold Train to Burner.

All (3) lines are connected to the Burner with Stainless Steel Braided Hoses. The ¾" Liquid Supply line to Vaporizer and the 1" Vapor to Burner Control Manifold line from the Vaporizer use a 1 x 24" stainless steel braided hose with unions to connect to the Vaporizer. (1) of the 1" unions has a 1" to ¾" reducer bushing to connect to the ¾" Liquid Propane Supply line.



The 1½" 10520, 10630, and 10730 and the 2" 101050 and 101275 Burner Vapor Supply lines from Burner Control Manifold to Burner use 1½" Stainless Steel Braided Hoses with unions to connect to the Burner. (1) of the 2" unions has a 2" to 1½" reducer bushing for the 1½" Braided Hose.

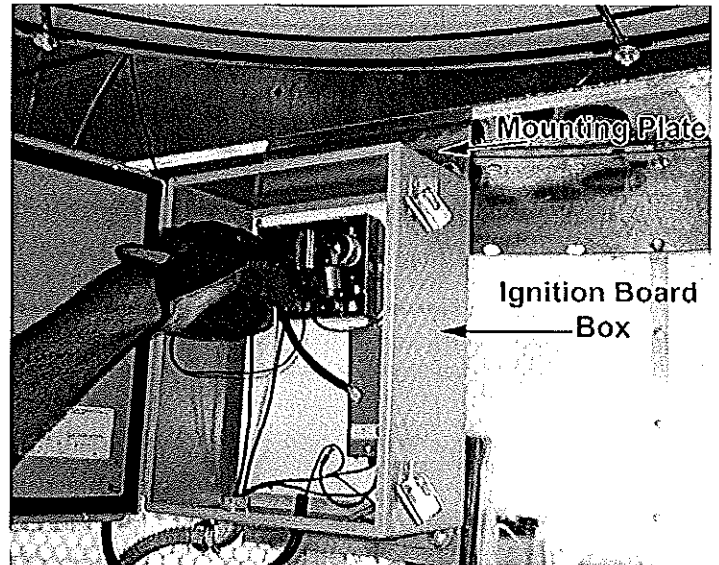
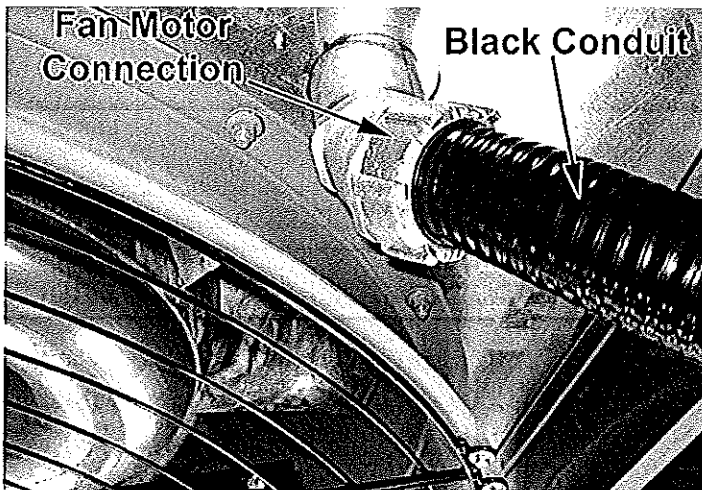


Wiring

101050 & 101275

Fan Motor - 3 Phase, 60 Hz

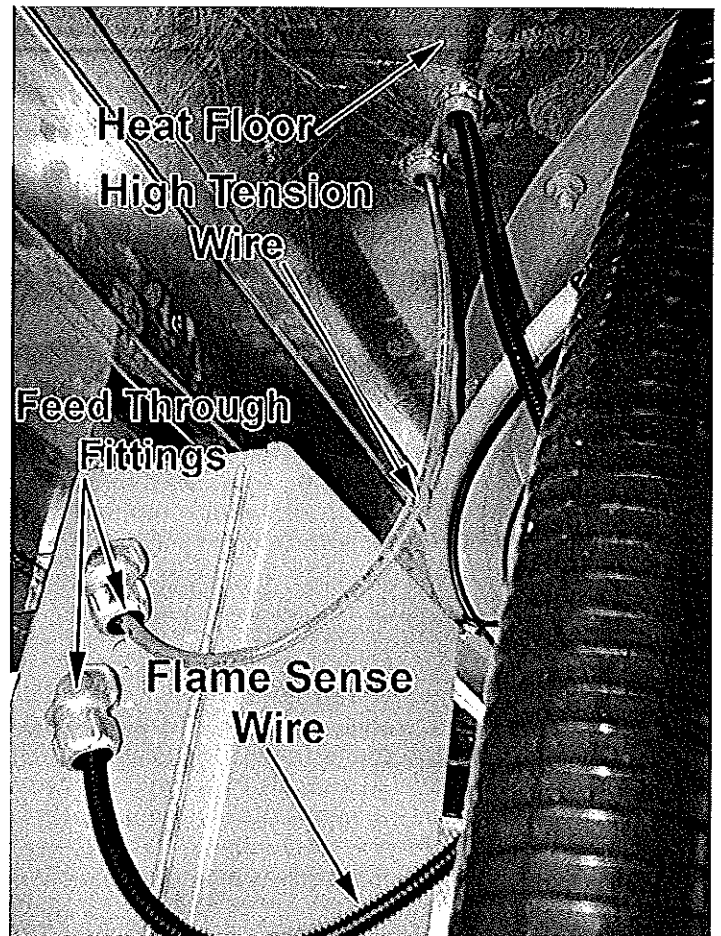
There is a 2" black flexible conduit containing (4) wires (red, black, blue, - power, and green - ground) for the fan motor. One end of this conduit is connected to the Fan Motor in screen section #3. The other end is in cool section #2 and must be inserted into the special exit port in the cooling column of section #1. Then, connect conduit to the bottom of the High Voltage Cabinet. Once the power wires have been drawn into the High Voltage Cabinet and up to the bottom of the Overload Contactor, they must be trimmed to length, insulation removed from ends, then inserted into the proper lugs. The green ground wire is connected to the closest ground lug. If the dryer is equipped with a Soft Starter, the power wires are connected to terminal lugs 2T1, 4T2, and 6T3. The green ground wire is connected to the closest ground lug.



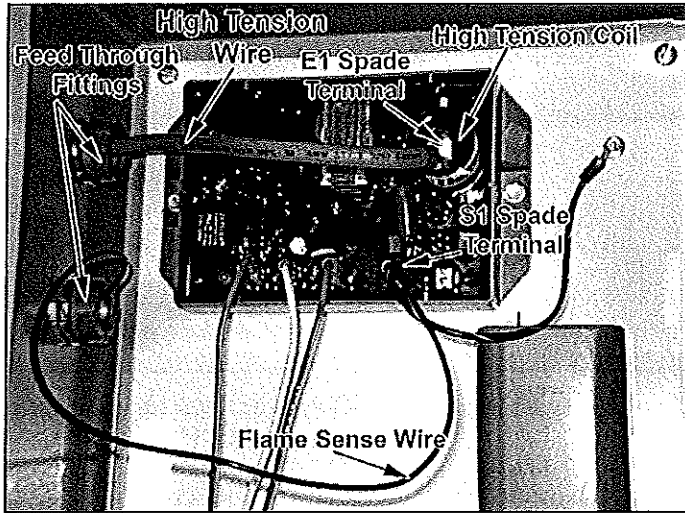
- There is (1) set of Ignition Wires, (1) large orange High Tension and (1) black 18 gauge Flame Sense Wire, which must be lowered from the side of the Burner Housing down through the Heat Floor and to the side of the Ignition Board Box that has the (2) black Feed Through Fittings. One fitting is for the orange Ignition Wire and the other is for the black Flame Sense Wire.

Ignition Board Box & Wires 101050 & 101275

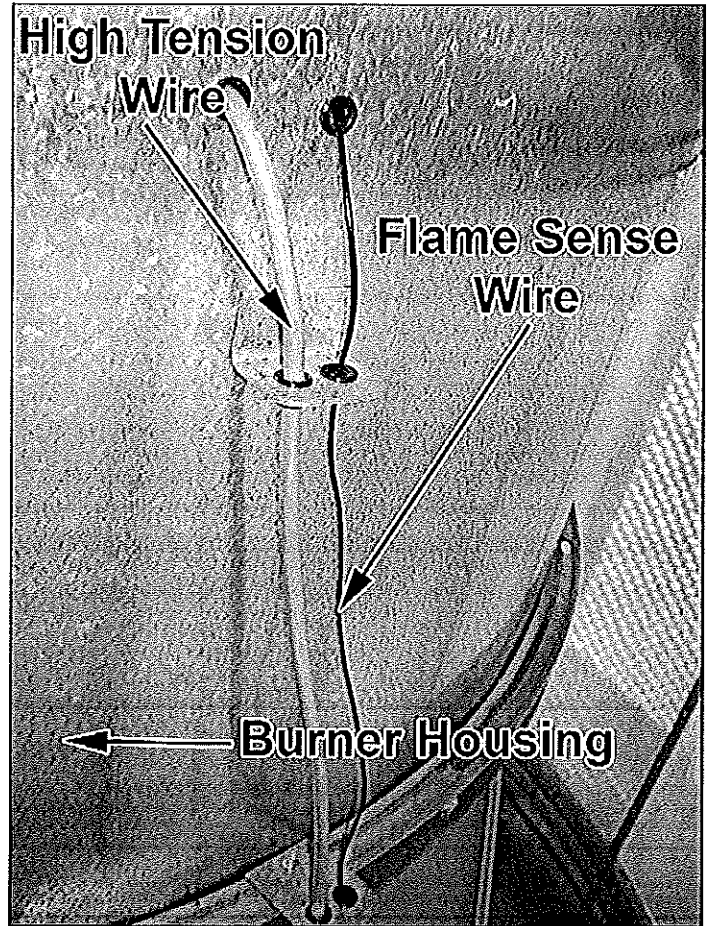
- There is a length of 3/4" flexible conduit connected to the Ignition Board Box, which is placed in the Base Section of the dryer during shipment. The Ignition Board Box is to be mounted on a special plate located in the bottom of Section #3 just under the Heat Floor. The mount plate is bolted to the side of (1) of the Floor Braces.



- Insert wires into proper Feed Through and pull into Ignition Board Box. The orange Ignition Wire will be placed onto the E1 spade on top of the High Tension Coil and the black Sense Wire will be placed onto the spade terminal S1 of Ignition Board.



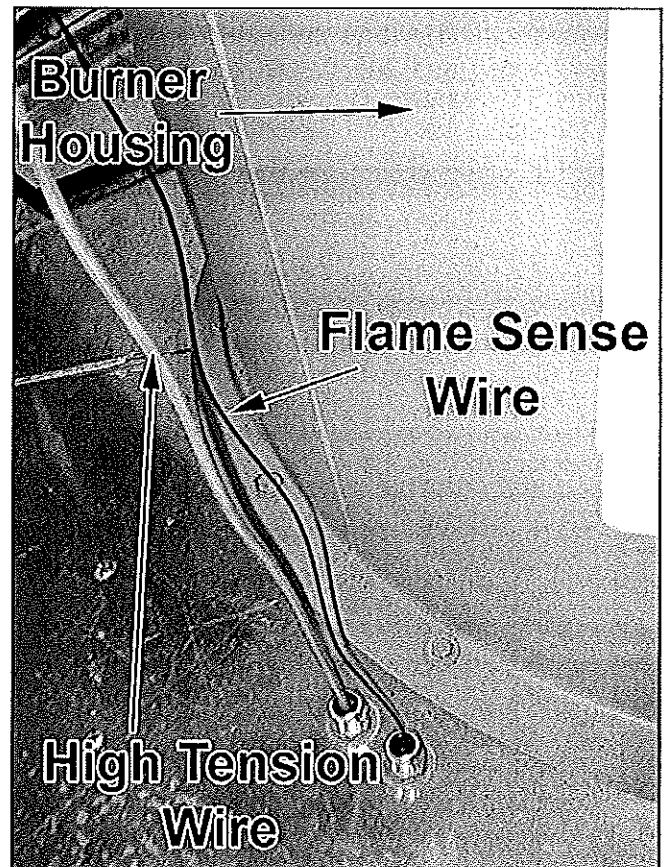
- Cut both wires to correct length plus a little extra, remove insulation from ends, and install female wire connectors. A 1" (2.54cm.) piece of shrink insulation is to be placed over the end of the orange high tension wire and the end of the female wire connector for extra protection. Heat a piece of shrink insulation so that it forms a tight seal over wire and connector.
- Run Ignition luquidtight to High Voltage Cabinet, making the connection per print.



**Ignition Electrode and Sense Probe Wires
Models 10520/10630/10730**

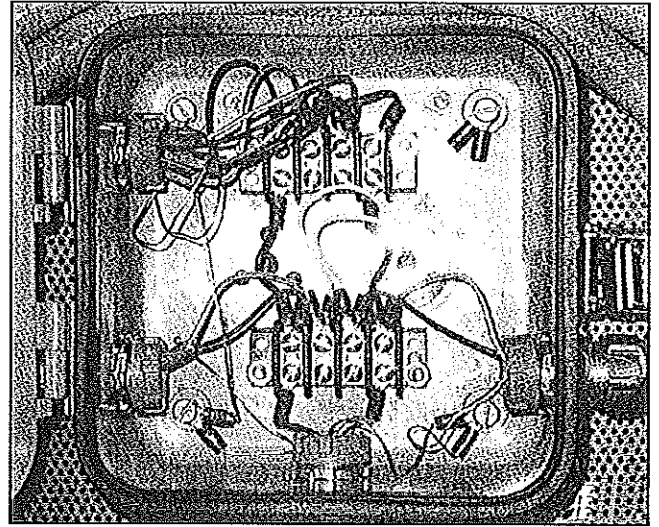
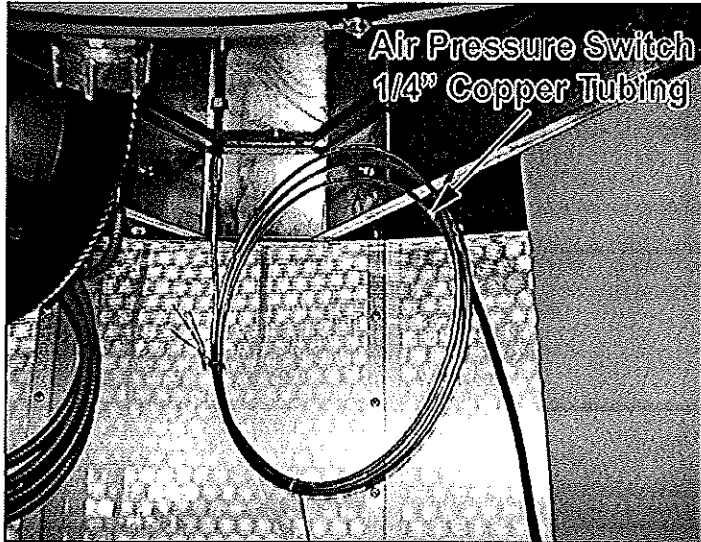
As the Ignition Board is already mounted in the 2nd Screen Section, all that is necessary is to lower the large orange High Tension Ignition Wire and the black 18 gauge Flame Sensing Wire from the side of the Burner Housing down through the Heat Floor.

Insert these wires through their special feed-through fittings, and into the Ignition Board Box. The orange high tension wire will be placed on the E1 spade terminal on top of the High Tension Coil and the black Flame Sense Wire will be placed onto the spade terminal of S1 of Ignition Board. Check paragraph above for wire connection terminal preparations.



Air Pressure Switch (101050)

The Air Pressure switch is located in the motor control portion of the High Voltage Cabinet. The 1/4" aluminum tubing for the Air Pressure Switch is coiled in the cool section of the dryer. Unwind aluminum tubing and connect open end to the Air Pressure Tube that is installed in the Heat Floor next to the 3/4" vapor line coming from the (3) ring vaporizer. A special compression fitting is supplied.



Run the Liquidtight from the Thermistor drop box three boxes down to the junction box and wire per diagram inside junction box. Run main feed from junction box down to High Voltage Cabinet and connect.

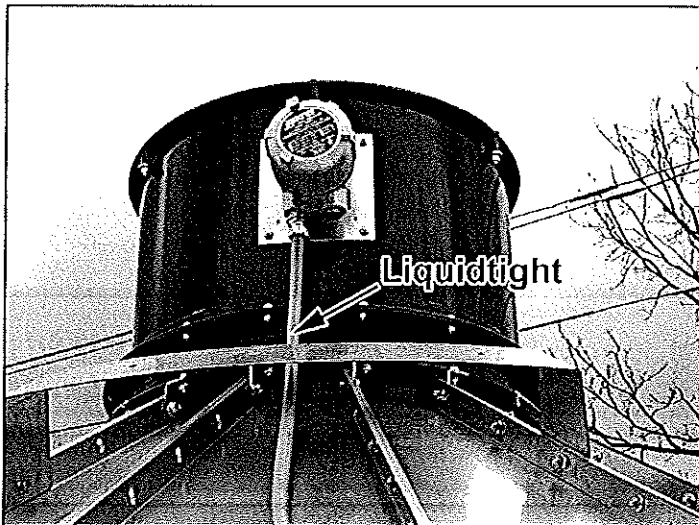
Moisture Control Thermistors

Unwind the 3/8" (9.5 mm) flexible conduit from the (4) way Thermistor Box on the side of the fifth screen section on Models 101050 and 101275; the third screen section on models 10730 and 10840 or the second screen section on Models 10520 and 10630, and let the flex conduit down to the High Voltage Cabinet. Place the 90° elbow fitting at the end of flex conduit into the hole in the bottom of the cabinet (wires first) and secure with locknut. Be sure to place blue plastic wire protector cap next to locknut.

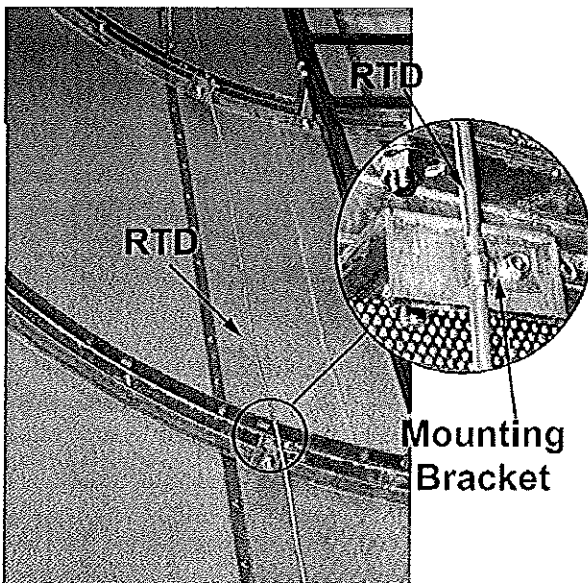
IMPORTANT: Check resistance reading of Thermistor wires when disconnected from Moisture control Board. Determine that neither wire is shortened to ground and resistance reading is correct for current outside temperature.

Rotary Bin Switch & Linear Limits

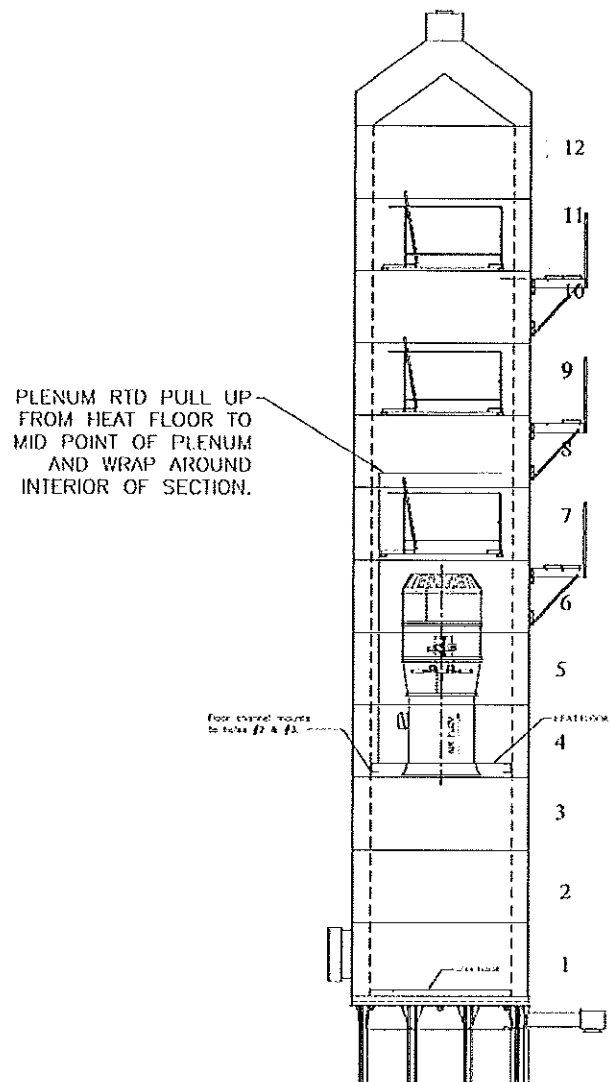
- Before the High Voltage supply is run to the High Voltage cabinet, all wiring harnesses can be run and connected properly.
- Start with running liquidtight from the roof section down to the High Voltage Cabinet. When the Installer is dropping the liquidtight down from the top of the dryer, the receiving tube should rotate at the top of the dryer so the Rotary Slicer blade is oriented properly for this dryer's wet grain in-feed style.



- Run RTD above heat floor straight up the inside of plenum chamber. The RTD is either 20 ft. or 40 ft. depending on Tower Dryer Model. The RTD is coiled and ready to be attached to the pre-mounted brackets. Any excess length should be wrapped around the inside of the dryer near the center rather than at the top. See diagram at right.

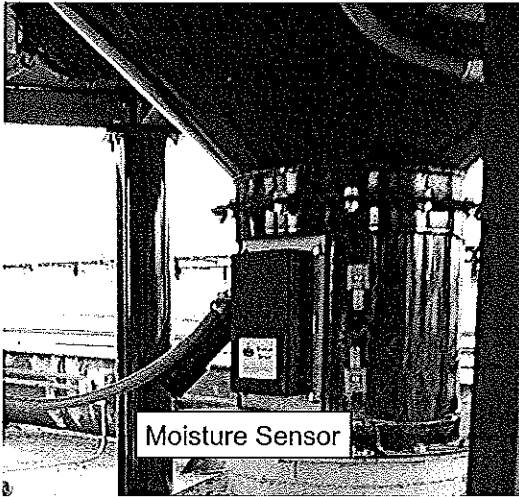


- Run high limit sensing bulb from either High Voltage Cabinet or Ignition box up into heating plenum chamber. Snap sensing bulb onto mounting bracket above heat floor.
- The last setup procedure inside the dryer is to run the motor wiring harness from the cooling section to the High Voltage Cabinet. Connect motor wiring to motor controls. This should be done by a qualified electrician. Open motor junction box to make sure new motor connections have not come loose.
- Disconnect Remote Cabinet from mounting brackets and mount to (2) mounting angles or customer's own mounting device.
- For Tower Dryer Model 101050 and 101257, the aluminum 1/4" air pressure tubing must be run from the High Voltage Cabinet to the Air Pressure tube mounted to the heat floor.
- Before connecting the High Voltage to the dryer, go through all motor wire connecting points and retighten lugs, including motor junction box with new lug kit installed.

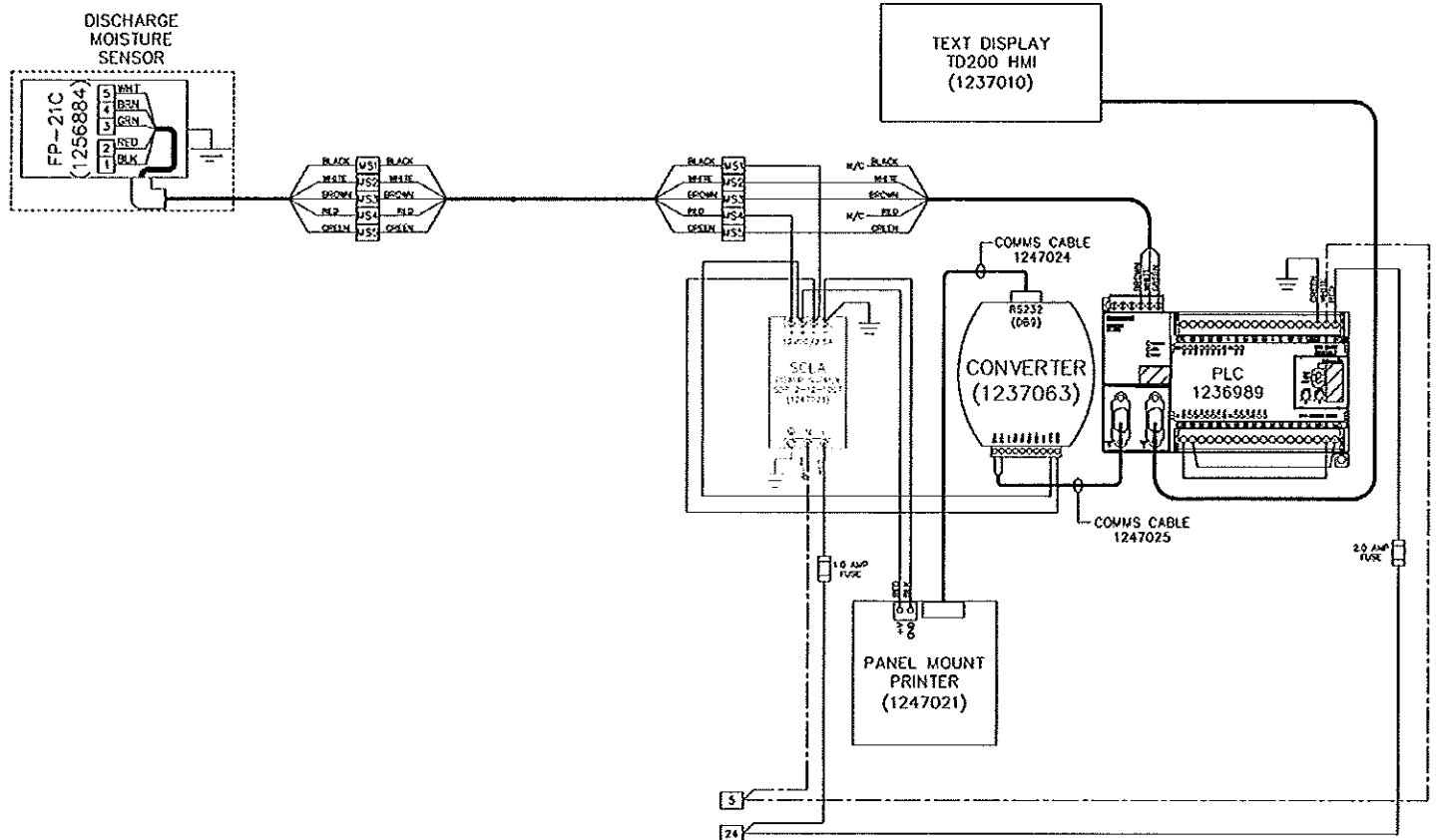
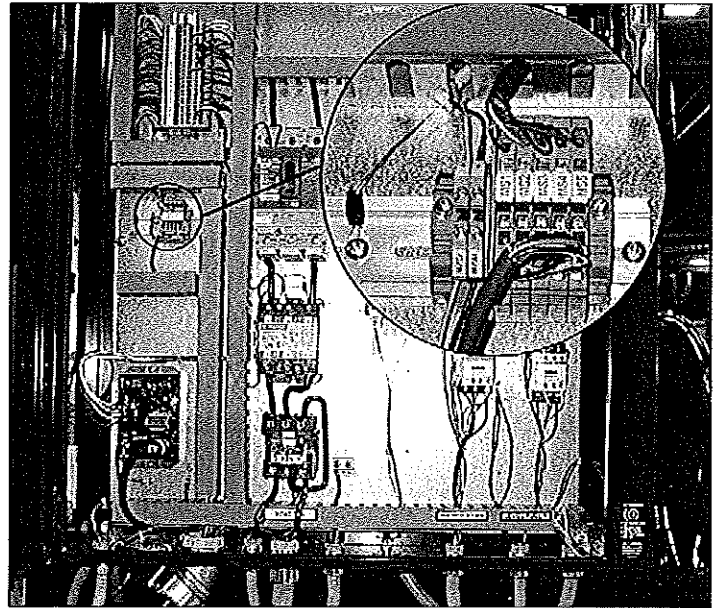


Moisture Sensor Terminal Blocks

- The Moisture Sensor monitors dry grain moisture and temperature. The moisture reading is temperature compensated.
- Auger-mounted moisture sensors are pre-wired and pre-installed.
- If the Tower Dryer has a center dump, the sensor needs to be installed with flow-through sensor mount during Tower Installation. The sensor mount is to funnel grain through and past sensor at a slower grain rate to measure moisture of grain properly. The flow-through device needs to be mounted on a flat surface with ample grain flowing into it. The sensor has 40' of wire to remotely locate a good position to mount sensor in

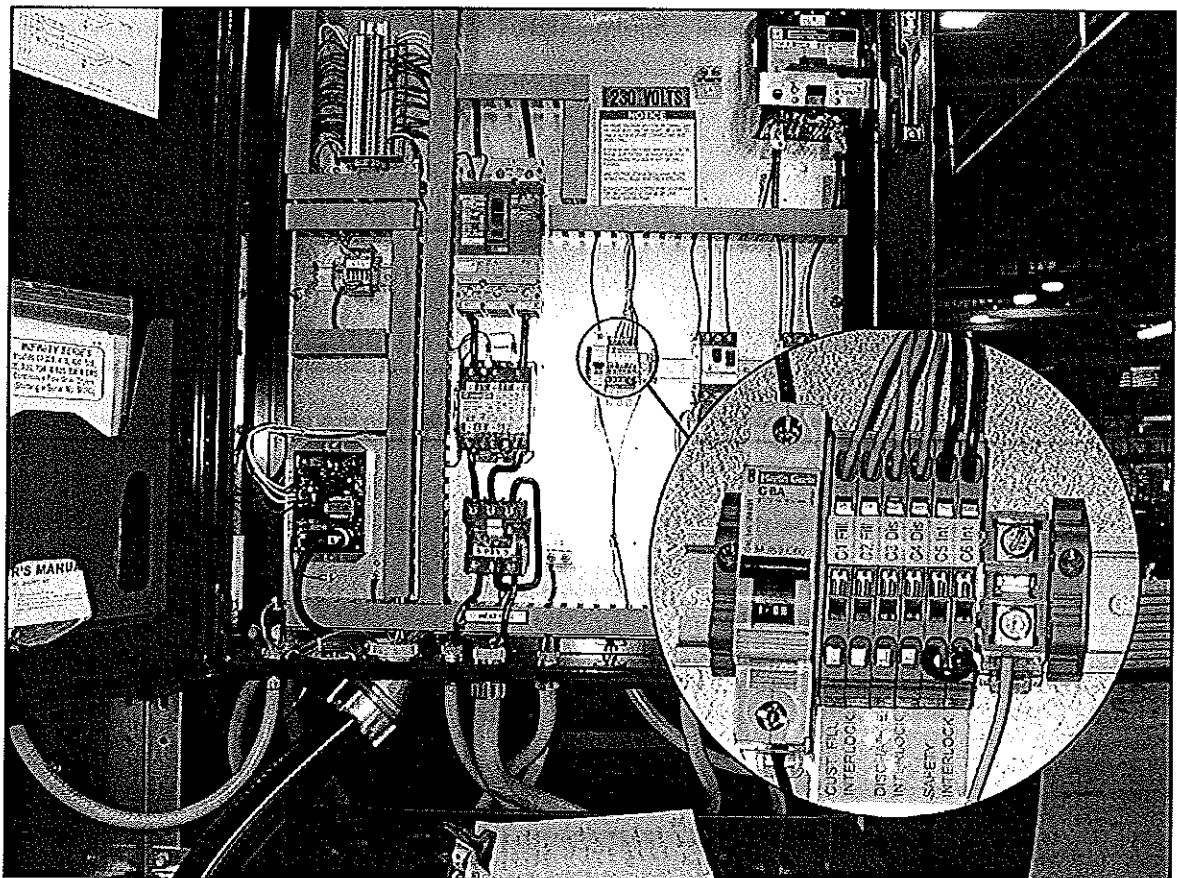


- Moisture Sensor connection points in the High Voltage Cabinet are labeled M1-M5.



Customer Connection Terminals

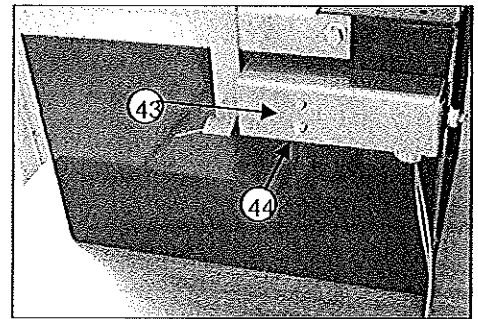
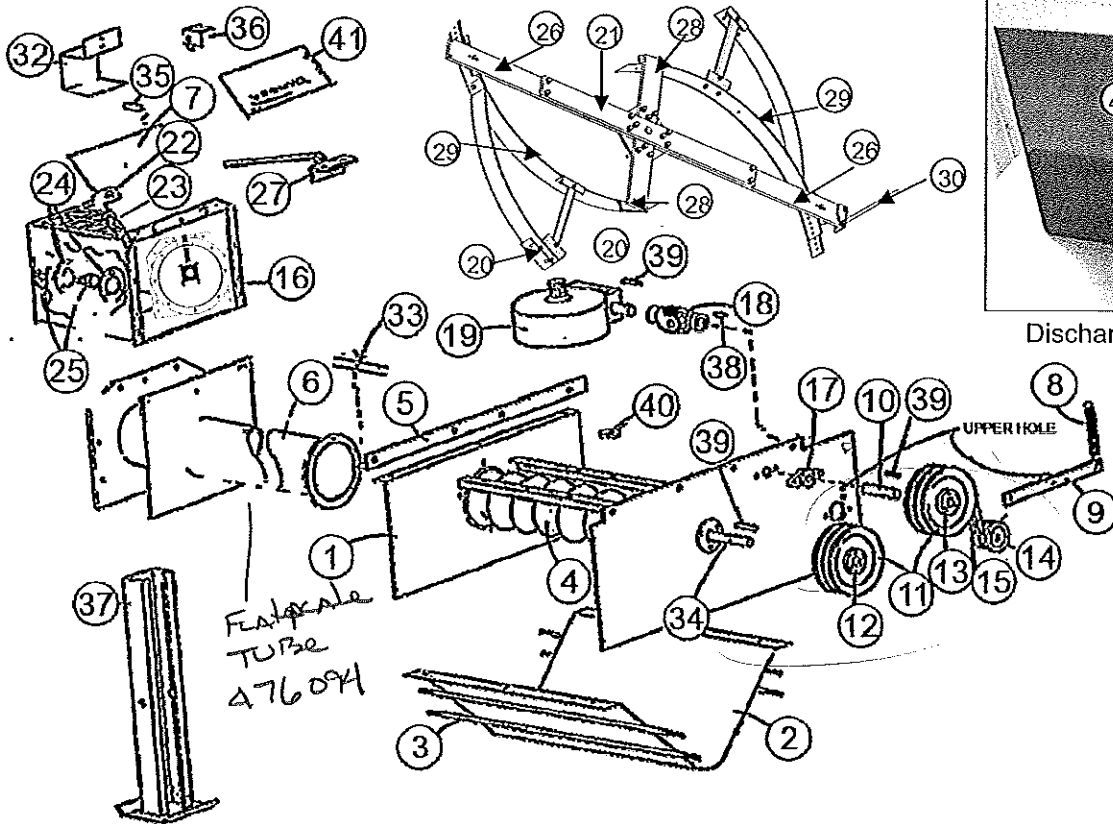
- C1 & C2 are dry sets of contacts that close when the Rotary Fill Switch is turning and the timer times out. See Figure 42.
- C3 & C4 are dry sets of contacts that close when discharge auger is running.
- C5 & C6 are the 120-volt safety circuit. Pull red jumper out and run two wires to thermal protection for fill and take-away motor controls. Leave jumper in place if motor controls are not available to connect to for shutdown protection.



SECTION 2

PARTS

SWEEP & DISCHARGE AUGER



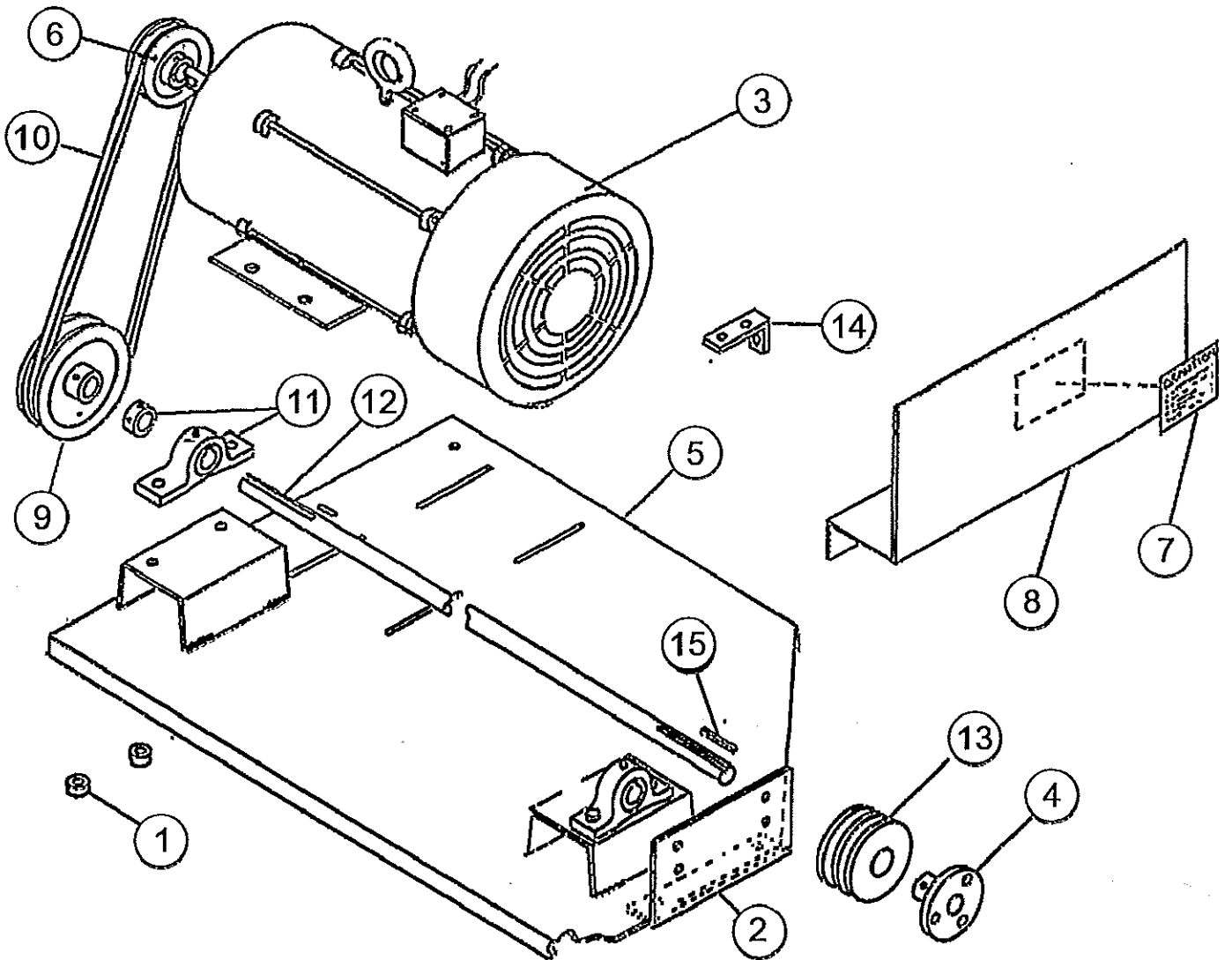
Discharge Limit Switch Closeup

Ref.	Part No	Qty.	Description	Ref.	Part No	Qty.	Description
1	475044	1	DISCHARGE SUMP BODY WELD	25	0016003	1	BEARING 1 1/4 W/ LK COLLAR
2	475071	1	SUMP TROUGH	26	834683	2	ARM LONG FOR 10' M005
3	475053	4	SUMP TIE BOLTS	27	476310	1	SWEEP ARM AGITATOR
4	475891	1	DISCHARGE AUGER WELD - 103"	28	446360	2	SWEEP FIN TAIL BRKT .10'
5	439779	1	HOPPER ATTACH ANGLE	29	475439	1	SWEEP ARM WELDMENT
6	476147	1	DISCH AUGER TUBE ASSY-FIN SENSOR	30	833278	2	SWEEP ARM FINGER-METAL
	*476091	1	DISCH AUGER TUBE WDMT-W/SENSOR	31	441965	2	CLEANER-SWEEP 1/4" X 2" X 8" TEFLON
7	1242884	1	DISCHARGE OVER LOAD DOOR	32	475069	1	AUGER STUB SHAFT GUARD#1283011
8	441966	1	SPRING V18C	33	475468	1	UNLOAD AUGER OUTPUT SHAFT
9	444601	1	BELT TIGHTENER WELDMENT	34	1285051	1	LEVEL AUGER FRONT SHAFT
10	830017	1	SHAFT-DRIVE 1" X 6-3/4" ME	35	1206800	1	LEVELSWITCH (BACK DOOR SFTY)*
11	475887	2	2/3V/6.5 SDS DRV PULLEY		1279389	1	DISCHARGE LIMIT SWITCH KIT
12	1216246	1	1 1/4" SDS BUSHING-MC #475074	36	1284896	1	U.A. SHUT-OFF SWITCH COVER
13	837739	1	BUSHING-SDS X 1" OD	37	476017	6	BASE LEG EXTENSION WELD - 53"
14	833318	1	PULLEY-IDLER FAFNIR010-1	38	1228254	1	1/4 X 7/8 WOODRUFF KEY
15	837356	1	V-BELT 2/3VX560BATCH & S	39	0015120	3	KEY 1/4" X 1 1/2
16	1280421	1	10" U.A. DISCHRG BOX 2004	40	475140	-	GEARBOX SHIM
17	821372	1	BEARING-FB110 X 1" FLANGE	41	836424	1	DECAL-DANGER DISCH AUGER
18	820026	1	JOINT, UNIVERSAL	42	476502	2	10' SWEEP SHOE ANGLE
19	475886	1	GEAR BOX 50:1 ASSEMBLED	43	1242888	1	DISCHARGE LIMIT SWITCH HOLDER
20	476453	2	SWEEP SHOE TEFLON - SHORT	44	1206813	1	LIMIT SWITCH - WHISKER ACTUATOR
21	475522	1	SWEEP ARM BRACE	45	1242889	1	DISCHARGE LIMIT SWITCH ACTUATOR
22	1206801	1	MNTG CLIP - LEVEL SWITCH		476275	2	1-' SWEEP ARM LINER (not shown)
23	1282937	1	U.A. BULB MOUNT				
24	0016004	2	1 1/4" BRG.FLANGETTE Z-P				

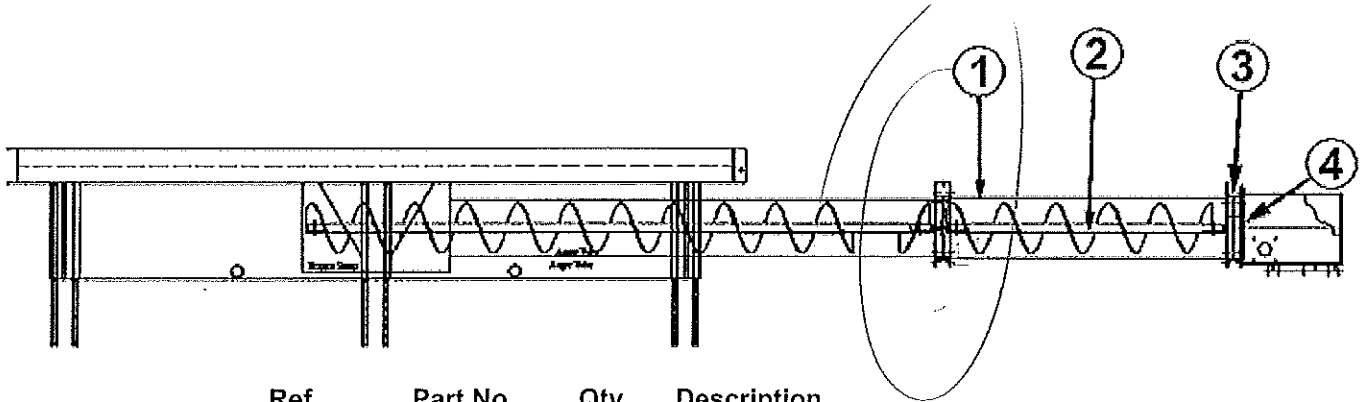
*Replace switch with Kit # 1279389 due to Illinois state law prohibiting the sale of items containing mercury.

DISCHARGE SYSTEM 5HP (AC) MOTOR DRIVE AND MOUNT

Ref.	Part No	Qty.	Description
1	475250	3	SPACER, MOTOR MOUNT
2	441969	1	SWEEP MOTOR ATTAC PLATE
3	1287036	1	5HP MOTOR 230/460V TEFC EPACT
4	475236	1	1" JA BUSHING
5	475240	1	AC MOTOR PLATE WELDMENT
6	1286238	1	3 1/4OD X 1 1/8BR PULLEY
7	475272	1	CAUTION SAFETY DECAL
8	475244	1	BELT GUARD
9	475234	1	1B 6.5ODX 1" BORE PULLEY
10	475237	1	B-32 BELT
11	1276000	2	1" PB BEARING
12	475241	1	1" DC MOTOR JACK SHAFT
13	837357	1	2/3V/2.65 SHEAVE
14	476313	1	BELT TENSION ADJUST BRKT
15	0015120	2	KEY 1/4 X 1 1/2

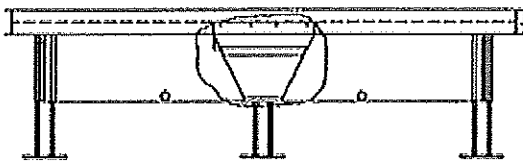
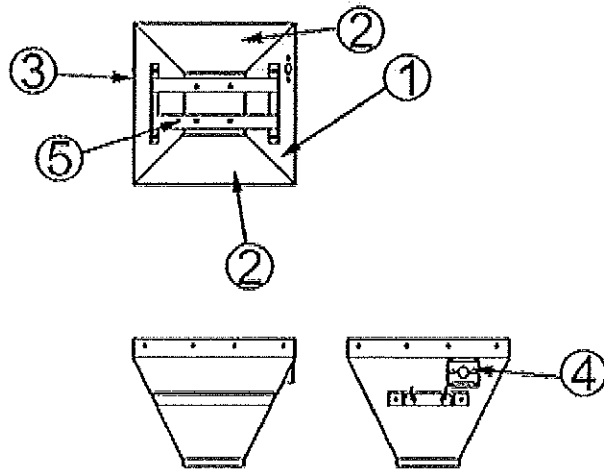
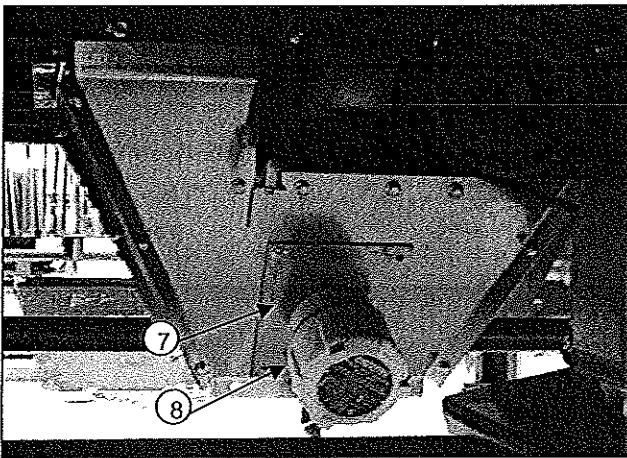


4 FT AUGER EXTENSION ASSEMBLY



Ref.	Part No	Qty.	Description
1	475837	1	AUGER TUBE EXTENSION WELDMENT 4FT
2	475842	1	DISCHARGE AUGER EXT WELD 48 1/4"
3	475840	1	ANGLE RING AUGER SUPPORT ASSEMBLY
4	1285050	1	LEVEL AUGER SHAFT CENTER
	1282687	2	GRAIN CLEANER LEGS-FIELD CUT (Not Shown)
	475846	1	AUGER EXT HARDWARE KIT 4FT (Not Shown)
	1286021	1	1 1/4" L.A. WOOD BRG 2 HLVS=1

CENTER DUMP ASSEMBLY (OPTIONAL)

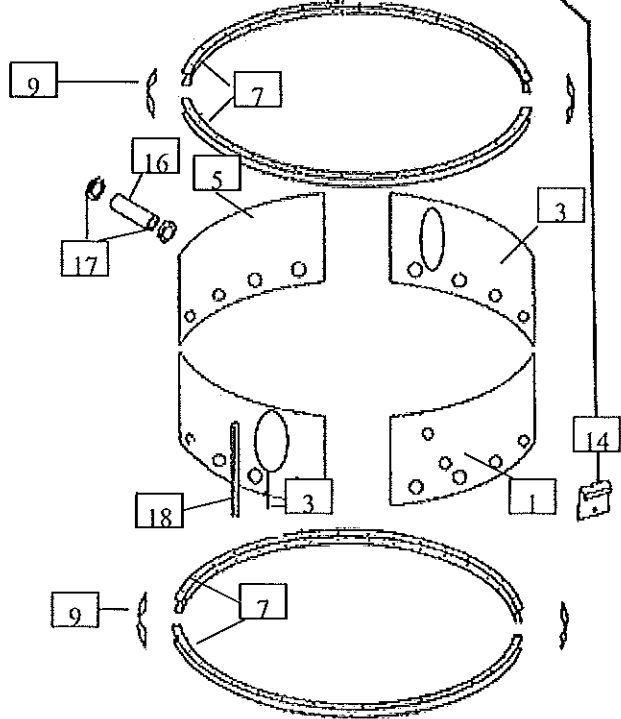
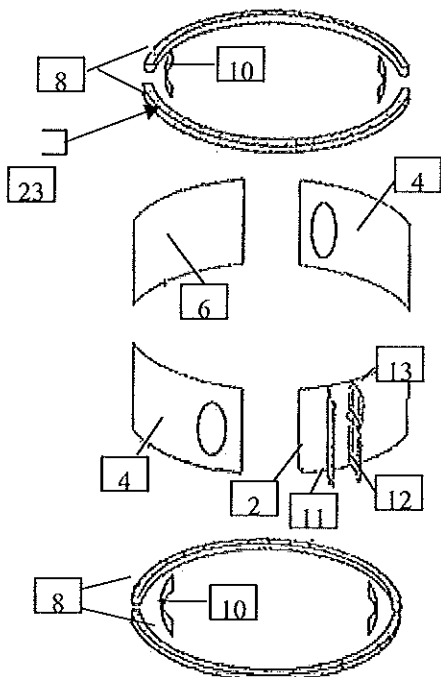
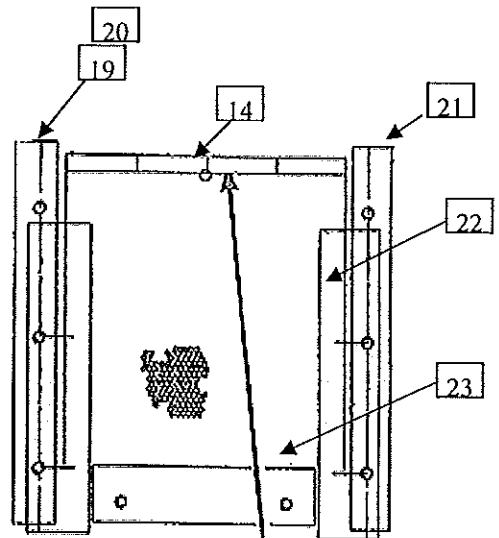


Ref.	Part No	Qty.	Description
1	475901	1	CENTER DUMP PANEL (FRONT)
2	475902	2	CENTER DUMP PANEL (RT & LT)
3	475903	1	CENTER DUMP PANEL (REAR)
4	475921	1	CENTER DUMP BEARING MOUNT PLATE
5	475907	1	CENTER DUMP ANGLE WELDMENT
6	475226	1	ROTARY INDICATOR
7	475995	1	BIN SWITCH MOUNT ASSEMBLY
8	4904665	1	UNLOAD ROTARY BIN SWITCH COVER
	475922	1	CENTER DUMP GRAIN DEFLECTOR (Not Shown)
	1286101*	1	2/3V425 V-BELT (Not Shown)

BASE COOLING SECTION (10520-10840)

*Quantity is per section

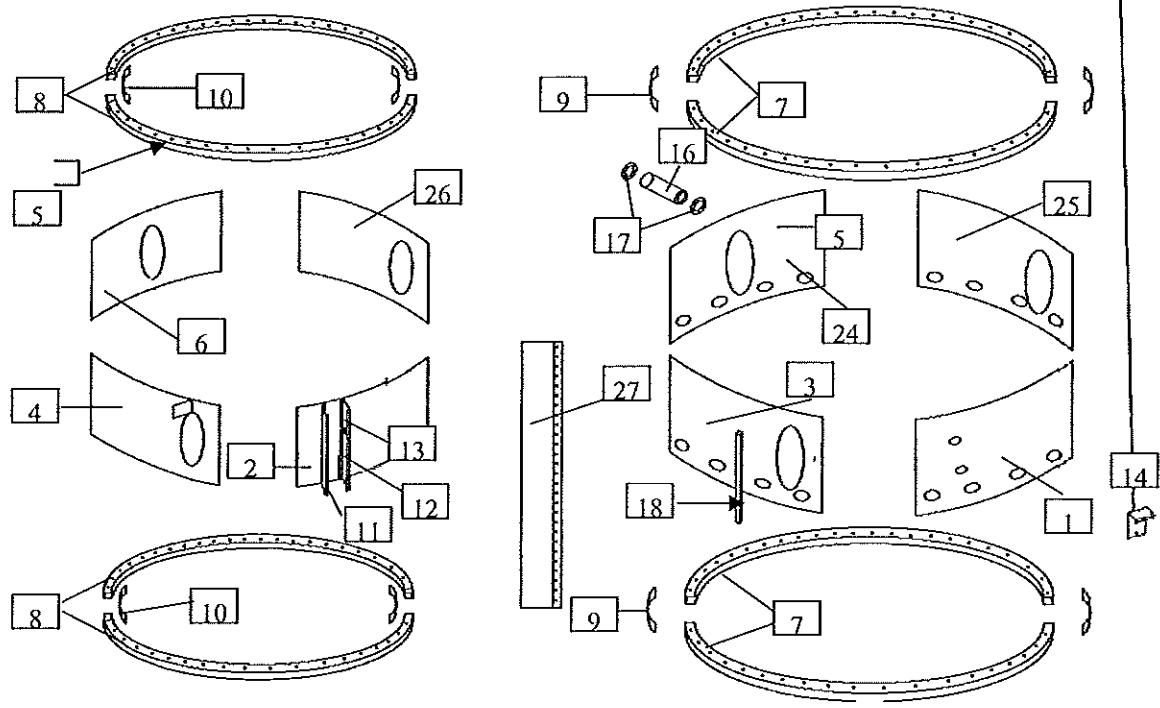
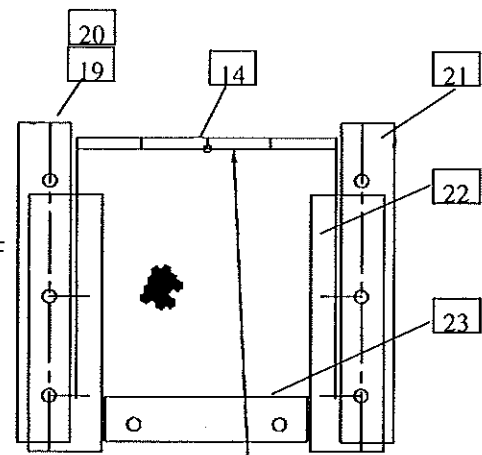
Ref. Part No.	Qty.	Description
1 475683	1	4FT OUTER ALUM UTILITY SCREEN .063" PERF
475024	1	4' OUTER SS PERF CONTL BOX .075" PERF
2 476483	1	4' INNER PERF .075" CONTROL BOX
3 476145	1	4FT OUTER ALUM SCREEN DOOR .063" PERF
476141	1	4' OUTER DOOR SCREEN STAINLESS STEEL RT
4 476490	2	48" INNER CRAWL DOOR PERF. .075"
5 475685	1	4FT OUTER ALUM Q/D SCREEN
475022	1	4' OUTER STAINLESS STEEL PERF SHEET 10'
6 476489	1	48" 10' INNER PERF SHEET GALV .075"
7 438761	4	OUTSIDE CHANNEL RING
8 438760	6	10' INSIDE CHANNEL RING
9 438649	4	TAB OUTER RING BOLTING
10 833353	4	TAB INNER RING BOLTING
11 834589	16	PARTITION 48.00" STD.
12 834600	1	PARTITION LONG BOTTM,PVC
13 834599	1	PARTITION SHORT TOP,PVC
14 475644	16	QUICK DRAIN DOORS-2001
15 833412	2	HAND GRIP PULL UP BRACKET
16 438912	2	TUBE ENTRANCE
17 438913	4	4"ID X 3/4" PVC COLLAR M "
18 834718	13	BRACE, ANGLE WITH BRACKET M010
19 475634	12	QUICK DUMP SCREEN STIFF-LEFT
20 475384	4	QUICK DUMP SCREEN STIFF LEFT
21 475635	16	QUICK DUMP SCREEN STIFF - RIGHT
22 475636	32	QUICK DUMP DOOR RETAINER
23 475320	32	RING FLANGE SUPPORT
24 476281	8	CHANNEL RING SPLICE COVER 10' (Not Shown)



BASE COOLING SECTION (101050)

*Quantity is per section

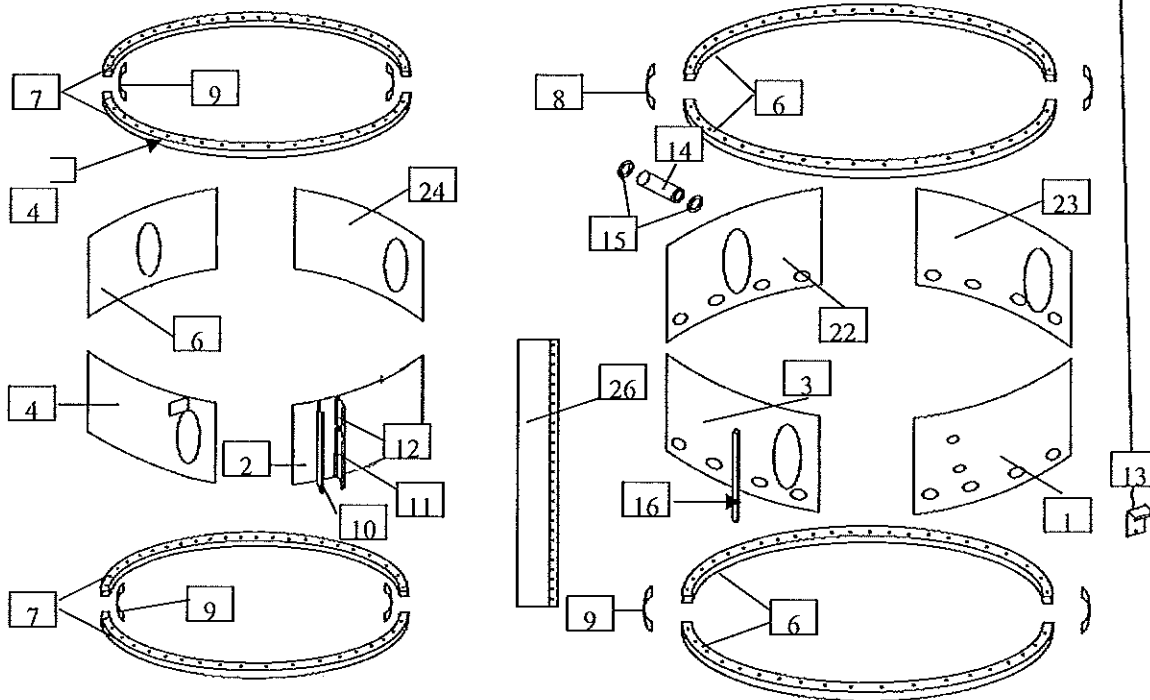
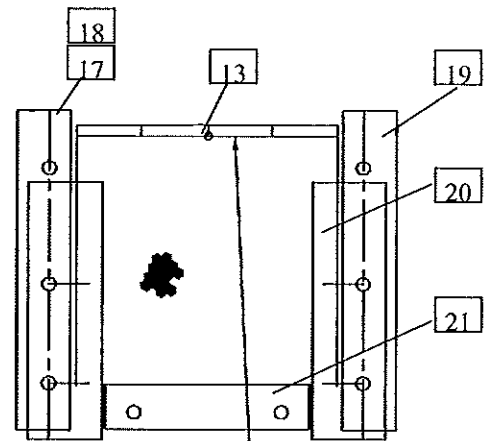
Ref.	Part No.	Qty.	Description
1	475660	1	4' OUTER SS PERF CONTL BOX .094" PERF
2	476481	1	4' INNER PERF CONTROL BOX SHEET .075 PERF
3	476145	2	4' OUTER ALUM SCREEN DOOR .063 PERF
	476141	2	4' OUTER DOOR SCREEN SS RT .094" PERF
4	476490	2	4' INNER GALV DOOR PERF .075 PERF
5	475320	32	RING FLANGE SUPPORT
6	476493	1	4' INNER GALV DOOR PERF .075 PERF
7	438761	4	OUTSIDE CHANNEL RING
8	438760	6	10' INSIDE CHANNEL RING
9	438649	4	TAB OUTER RING BOLTING
10	833353	4	TAB INNER RING BOLTING
11	834589	16	PARTITION 48.00" STD.
12	834600	1	PARTITION LONG BOTTM,PVC
13	834599	1	PARTITION SHORT TOP,PVC
14	475644	16	QUICK DRAIN DOORS-2001
15	833412	2	HAND GRIP PULL UP
16	438911	3	ENTRANCE TUBE ASSEMBLY
17	438913	3	4"ID X 3/4" PVC COLLAR M
18	475447	12	OUTER SCRNM SUPPORT ANGLE
19	475634	10	QUICK DUMP SCREEN STIFF-LEFT .075 PERF
20	475384	6	QUICK DUMP SCREEN STIFF LEFT .075 PERF
21	475635	16	QUICK DUMP SCREEN STIFF - RIGHT .075 PERF
22	475636	32	QUICK DUMP DOOR RETAINER
23	475637	16	DOOR RETAINER SHORT
24	476143	1	4' OUTER ALUM SCREEN DOOR .094" PERF
	476146	1	4' OUTER DOOR SCREEN SS CENTER .094" PERF
25	476142	1	4' OUTER ALUM DOOR SCREEN .094" PERF
	476144	1	4' OUTER SCREEN SS LT .094" PERF
26	476494	2	4' INNER GALV DOOR PERF .075" PERF
27	475448	12	OUTER STIFFENER ARM (FIELD INSTALLED)
	833194	2	STEP, COOLING CHAMBER M0 (Not Shown)



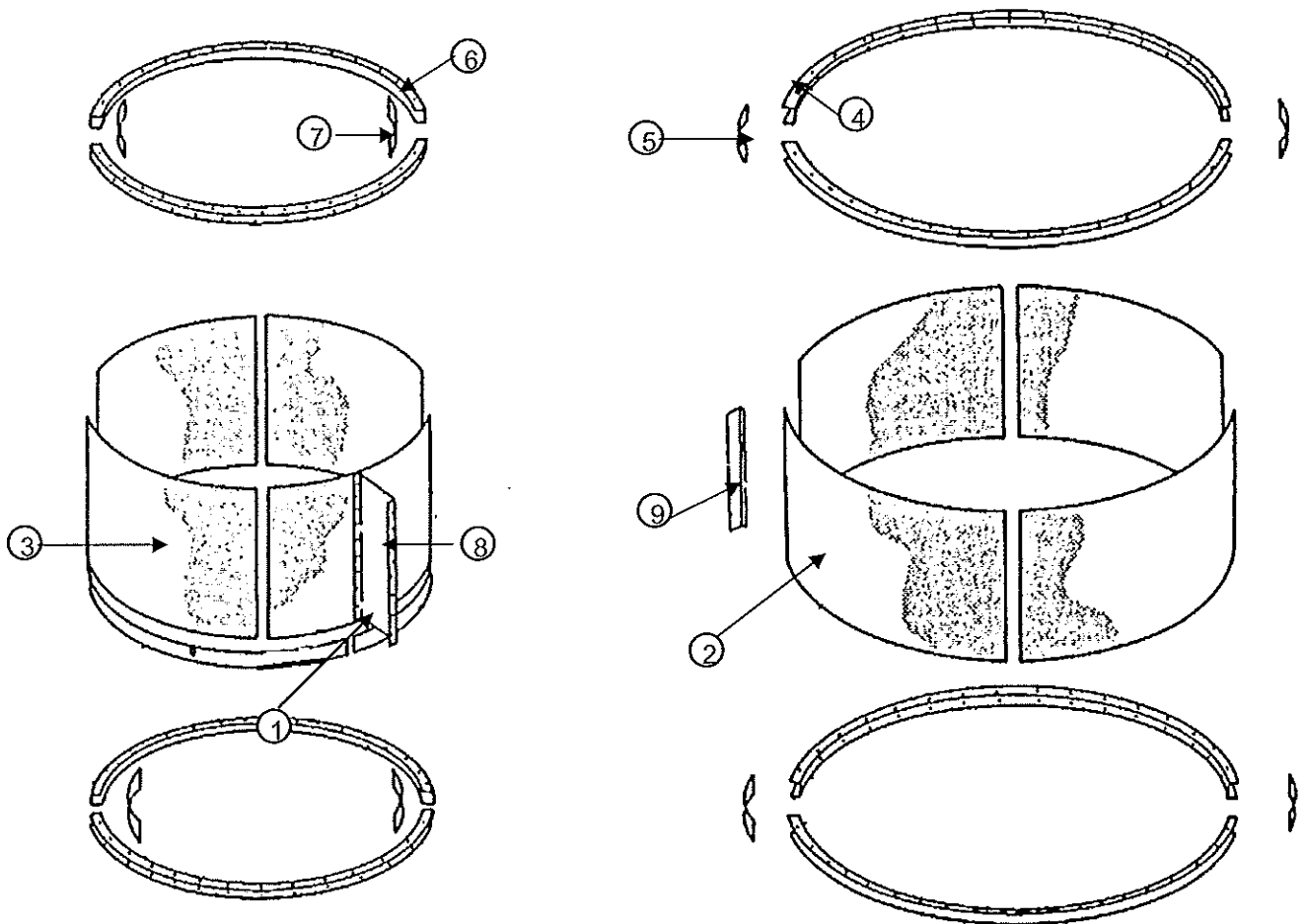
BASE COOLING SECTION (101275)

*Quantity is per section

Ref.	Part No.	Qty.	Description
1	476064	1	4' OUTER ALUM UTILITY SCN .094"
2	476482	1	4' INNER PERF .075" CONTROL BOX
3	476145	2	4' OUTER ALUM SCREEN DOOR .094" PERF
	476155	1	4' OUTER PERF DOOR SHEET SS -11/32"
4	475320	32	RING FLANGE SUPPORT
5	476492	1	48" INNER GALV DOOR PERF
6	438761	4	OUTSIDE CHANNEL RING
7	438760	6	10' INSIDE CHANNEL RING
8	438649	4	TAB OUTER RING BOLTING
9	833353	4	TAB INNER RING BOLTING
10	476042	12	PARTITION 48.00" 14 GAUGE LOWER SECTION
11	476550	1	PARTITION LONG BOTTOM 14GAUGE. PVC
12	476551	1	PARTITION SHORT TOP 14GAUGE PVC
13	475644	16	QUICK DRAIN DOORS-2001
14	438911	3	ENTRANCE TUBE ASSEMBLY
15	438913	4	4"ID X 3/4" PVC COLLAR M
16	476045	12	OUTER SCEERN SUPPORT ANGLE 101275
17	475634	10	QUICK DUMP SCREEN STIFF-LEFT
18	475384	6	QUICK DUMP SCREEN STIFF LEFT
19	475635	16	QUICK DUMP SCREEN STIFF - RIGHT
20	475636	32	QUICK DUMP DOOR RETAINER
21	475637	16	DOOR RETAINER SHORT
22	476157	1	101275 4' OUTER ALUM SCREEN DOOR
	476146	1	4' OUTER DOOR SCREEN SS CENTER
23	476158	1	101275 4' OUTER ALUM DOOR SCREEN
	476074	1	4' OUTER PERF UTILITY SHEET SS
24	476491	1	48" INNER GALV DOOR PERF .075"
25	833412	2	HAND GRIP PULL UP BRACKET
26	475448	12	OUTER STIFFENER ARM (FIELD INSTALLED)



STANDARD COOLING SECTION



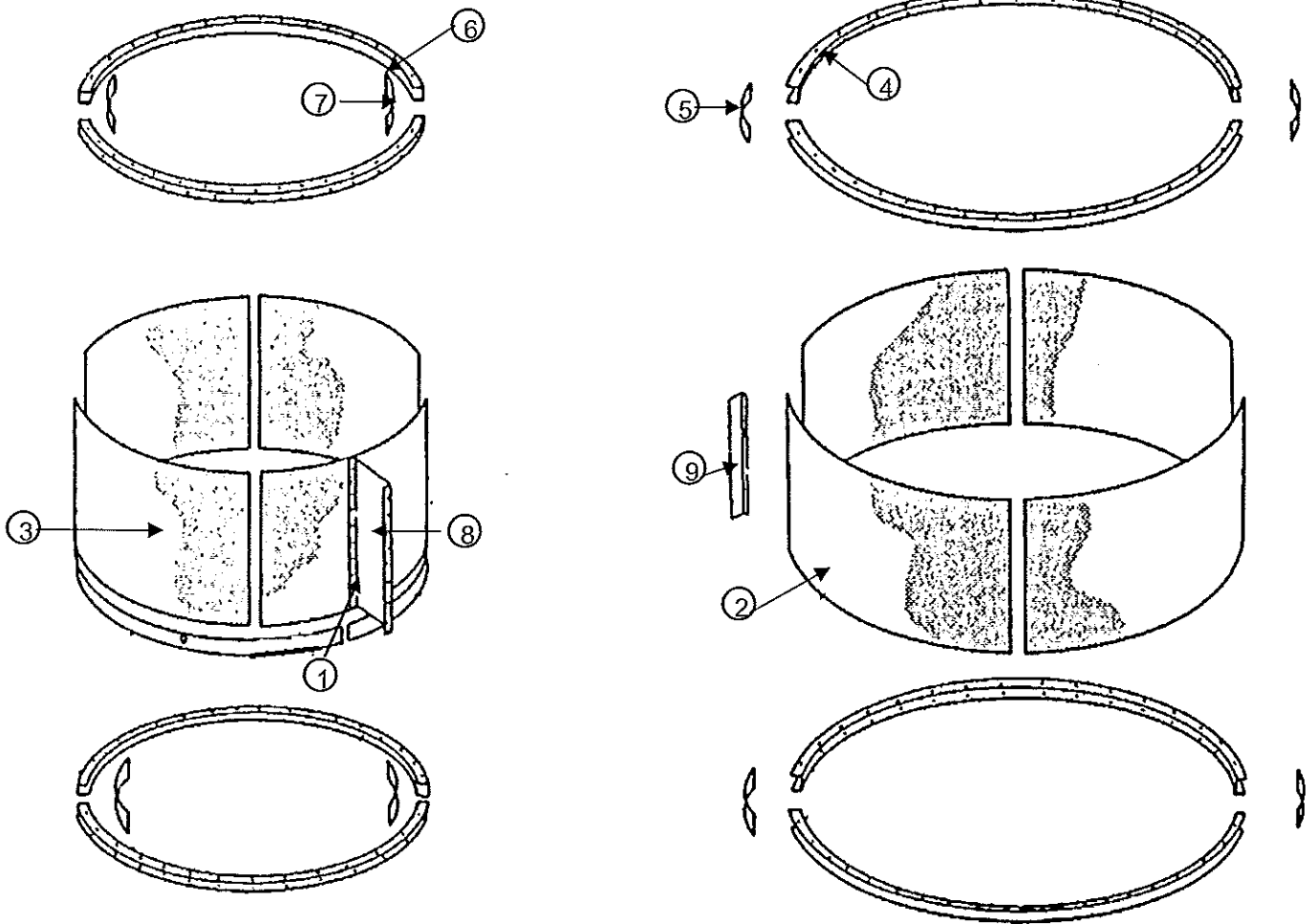
Ref.	Part No.	Qty.	Description
1	834065	288	¼ x ½ (6.35 x 12.7mm.) POP RIVET
2	476063	4	4' OUTER ALUMINUM SCREEN .094 PERF (101275)
	476072	4	4 FT. OUTER PERF SHEET STAINLESS STEEL 10 .094 PERF (101275)
	475440	4	4' OUTER ALUMINUM SCREEN .094 PERF (10520-101050)
	444762	4	4' OUTER PERF SHEET STAINLESS STEEL 10 .094 PERF (10520-101050)
3	476489	4	48" 10' INNER PERF SHEET GALVANIZED .075" PERFORATION (10520-101050)
	476480	4	48" 10' INNER PERF SHEET GALVANIZED .075" PERFORATION (101275)
4	438761	4	OUTSIDE CHANNEL RING
5	438649	4	TAB OUTER RING BOLTING
6	438760	4	10' INSIDE CHANNEL RING
7	833353	4	TAB INNER RING BOLTING
8	834589	16	PARTITION 48.00" STD (10520-101050)
	476042	16	PARTITION 48.00" 14GA LOWER SECT (101275)
9	834718	8/16	OUTER SCR N SUPPORT ANGLE (10520-10840)
	475447	8/16	OUTER SCR N SUPPORT ANGLE (101050)
	476045	8/16	OUTER SCR N SUPPORT ANGLE (101275)
10*	834133	144	1/4X9/16" POP RIVET
11*	0008307	100	5/16-18 X 3/4" (7.9 X 19mm.) TRUSSHEAD 18-8 STAINLESS STEEL
12*	0008308	76	5/16-18 X 1/2" (7.9 X 12.7mm.) TRUSSHEAD 18-8 STAINLESS STEEL
13*	0008304	304	5/16-18 (7.9mm.) FLNG WHZ LKNT 18-8 SS
14*	476046	20	INNER COOLING SCREEN ANGLE BRACE B (101275 only)

*Not shown

**Sections without walkways have 16 outer screen support angles. Sections with walkways have 8.

*Quantity is per section

HEAT SECTION



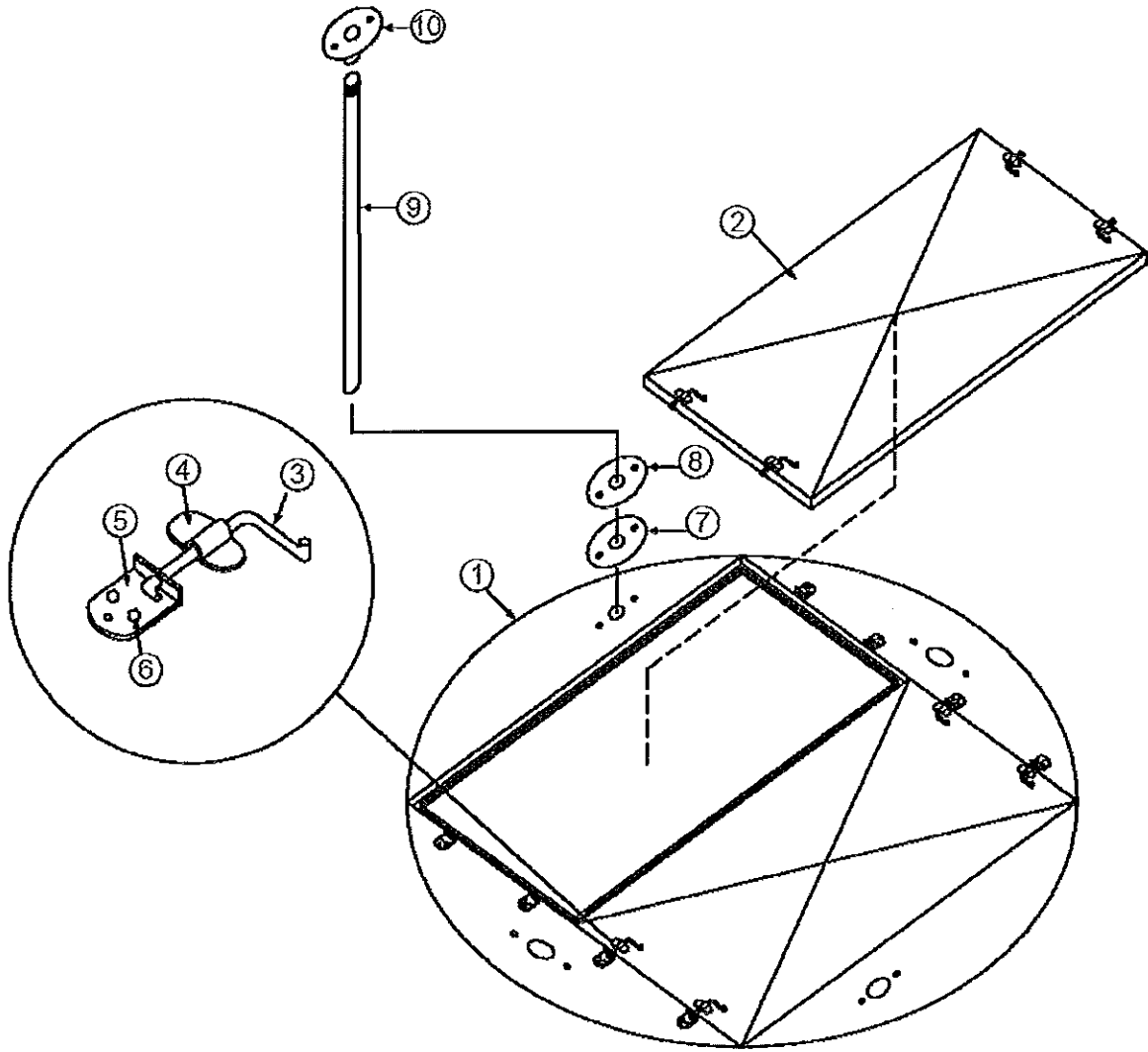
Ref.	Part No.	Qty.	Description
1	834065	288	¼ x ½ (6.35 x 12.7mm.) POP RIVET
2	475440	4	4' OUTER ALUM SCREEN .094 PERF
	444762	4	4 FT. OUTER PERF SHEET SS 10 .094 PERF
3	834531	4	10' INNER PERF SHEET GALV .094 PERF
4	438761	4	OUTSIDE CHANNEL RING
5	438649	4	TAB OUTER RING BOLTING
6	438760	4	10' INSIDE CHANNEL RING
7	833353	4	TAB INNER RING BOLTING
8	834589	16	PARTITION 48.00" STD.
9	834718	7/16**	BRACE, ANGLE - RIVOT
	475745	9	BRACE, ANGLE WITH BRACKET M010
10*	834133	144	1/4X9/16" POP RIVET
11*	0008307	100	5/16-18 X 3/4" (7.9 X 19mm.) TRUSSHEAD 18-8 STAINLESS STEEL
12*	0008308	76	5/16-18 X 1/2" (7.9 X 12.7mm.) TRUSSHEAD 18-8 STAINLESS STEEL
13*	0008304	304	5/16-18 (7.9mm.) FLNG WHZ LKNT 18-8 SS

*Not shown

**Sections without walkways have 16 outer screen support angles. Sections with walkways have 7.

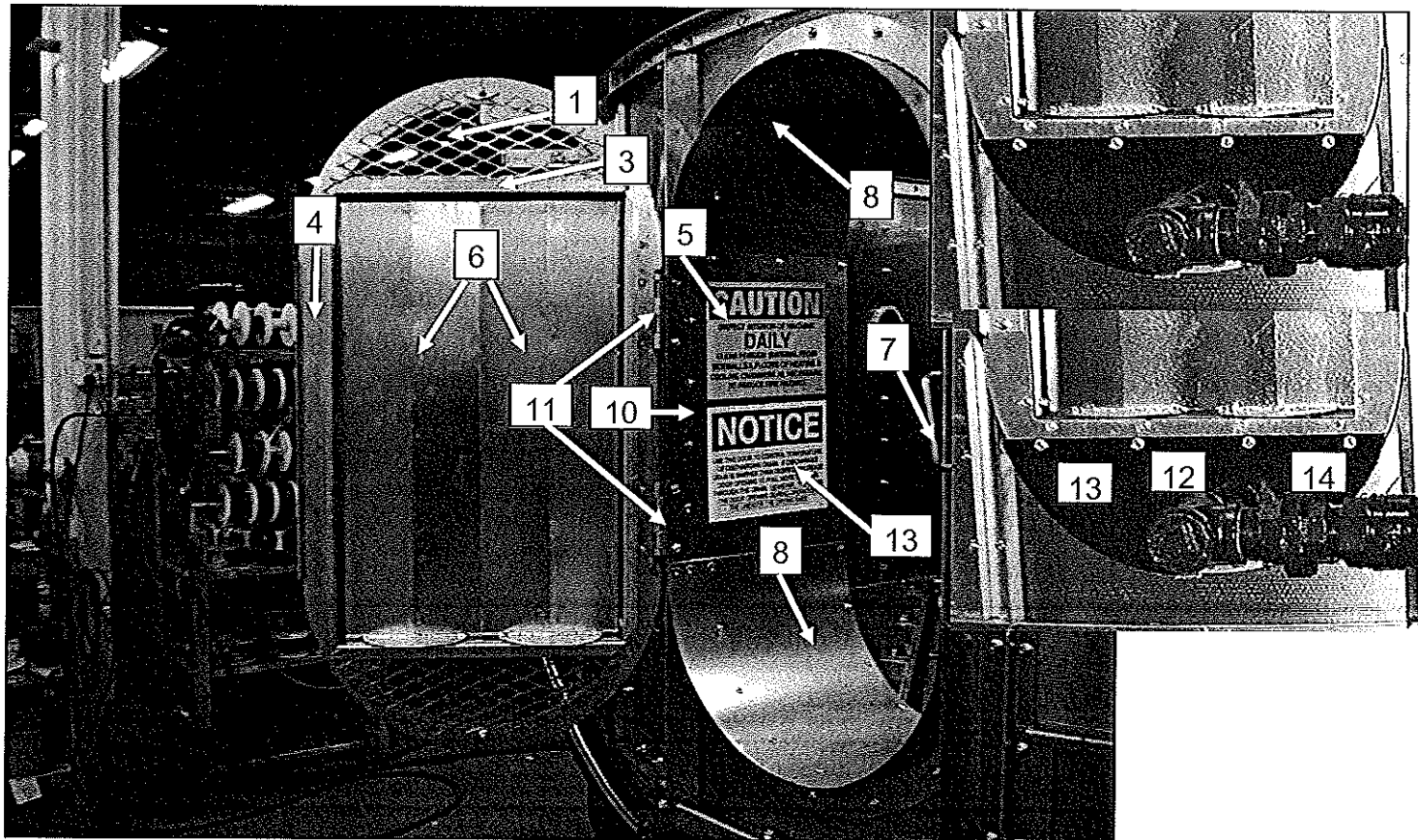
*Quantity is per section

COOLING FLOOR

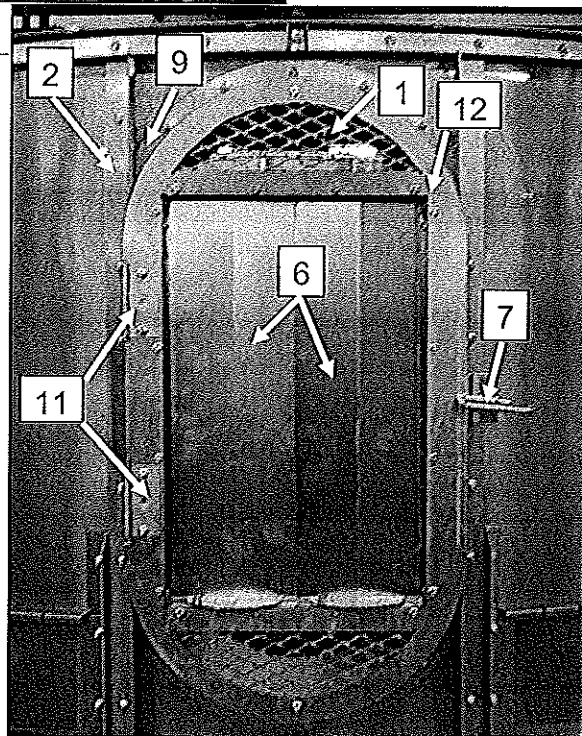


Ref.	Part No.	Qty.	Description
1	475960	2	10' TOWER COOLING FLOOR PANEL-A
2	475961	2	10' TOWER COOLING FLOOR PANEL-C
3	438709	8	HANDLE PART NO 1 OF GATE
4	438710	8	BEARING LATCH PLATE
	438711	8	PLATE-BEARING FOR GATE L
5	438712	8	LATCH SIDE PLATE
6	0018202	70	5/16-18 x 3/4" HWH GR5 ZP "
7	475108	4	CLEAN-OUT PIPE GASKET
8	475109	4	CLEAN-OUT FLOOR SEAL
9	475380	4	CLEAN-OUT PIPE 1 1/4"X61.1/2"LONG (10520)
	476524	4	CLEAN-OUT PIPE 1 1/4"X70 1/2"LONG (10630)
	476525	4	CLEAN-OUT PIPE 1 1/4"X84-11/16" LONG (10730)
	476526	4	CLEAN-OUT PIPE 1 1/4"X104 11/16" LONG (10840)
	476527	4	CLEAN-OUT PIPE 1 1/4"X (2)61"LONG (101050)
	476528	4	CLEAN-OUT PIPE 1 1/4"X(2)76" LONG (101275)
10	475107	8	FLOOR FLANGE 1 1/4"
	475962	1	10' TOWER COOLING FLOOR JAM (Not Shown)
	476119	6	SEAL PLATE (AROUND DOOR) (Not Shown)

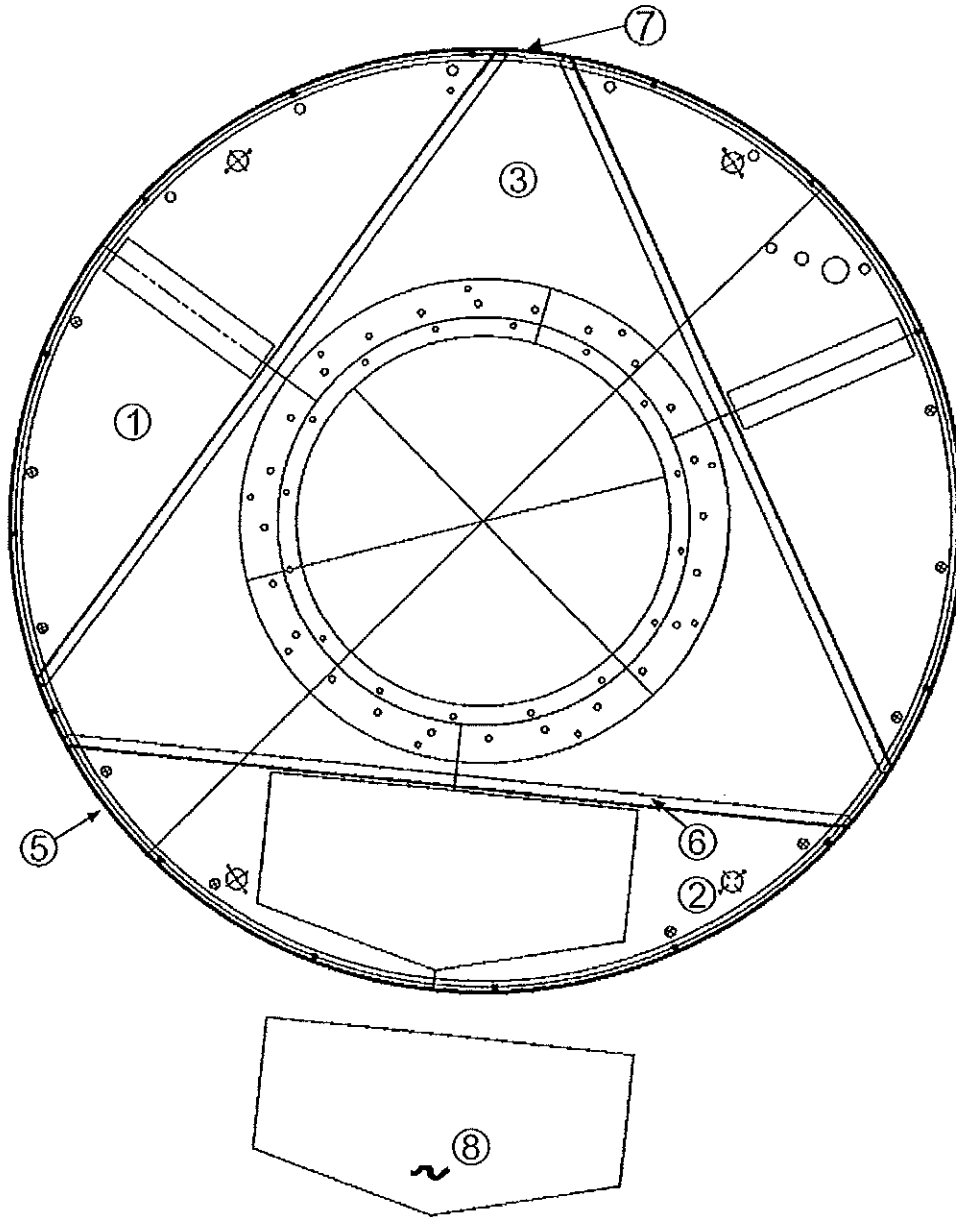
CRAWL DOOR



Ref. Part No.	Qty.	Description	
1	476289	2	10FT EXPANDED METAL DOOR PANEL
2	476153	2	10' VENT SIDE FRAME ANGLE
3	476165	2	LOUVER FRAME TOP/BOTTOM
4	476166	2	LOUVER FRAME SIDE
5	836425	1	DECAL-CLEAN MACHINE DAILY
6	476161	2	LOUVER BLADE WELDMENT
7	4901091	1	12'-18' DOOR LATCH ASSY
8	475956	2	10' COOLING DOOR FRAME TOP/BOT
9	475957	4	10' DOOR FRAME SEAL-TOP/BOT
10	476151	2	10' VENT SIDE PANEL
11	4904939	2	DOOR HINGE
12	476170	1	10FT DOOR PANEL GAS INLET CUT-OUT
13	476208	1	10 FT. DOOR PANEL RUBBER ATCH. LP
14	476171	1	10 FT. DOOR PANEL RUBBER ATCH. NG

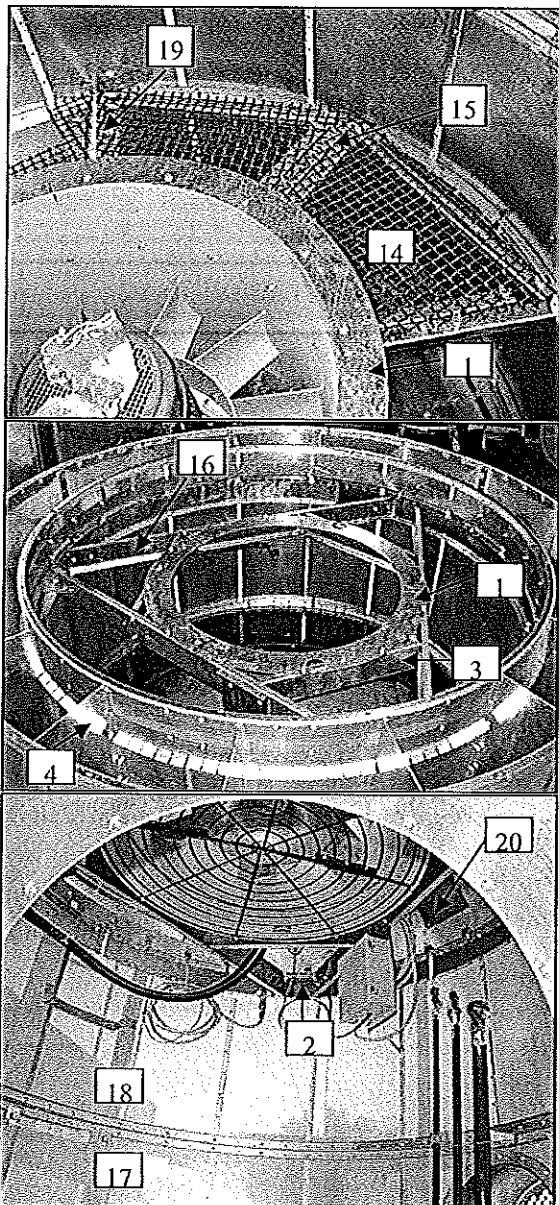
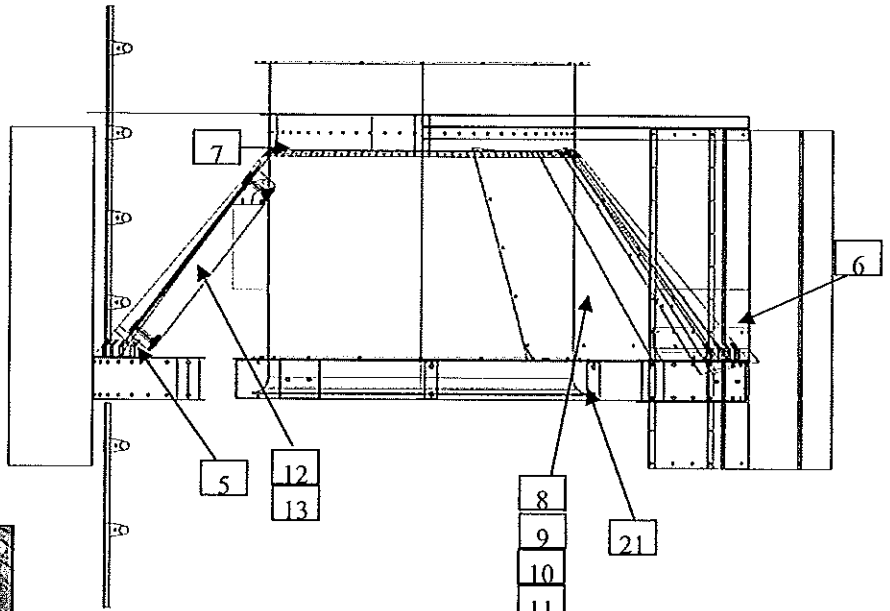


10 FT. HEAT CHAMBER FLOOR



Ref.	Part No.	Qty.	Description
1	475626	1	HEATING FLOOR DOOR RIGHT (10520-10730)
	475917	1	HEATING FLOOR DR RIGHT-101050/101275 (10840-101275)
2	475627	1	HEATING FLOOR DOOR LEFT (10520-10730)
	475918	1	HEAT FLOOR DR LEFT 101050/101275 (10840-101275)
3	475628	1	HEATING FLOOR FULL SECTION (10520-10730)
	475919	1	HEAT FLOOR FULL SECTION-101050/101275 (10840-101275)
5	475476	4	ROLLED FLOOR SUPPORT CHANNEL
6	475477	3	FLOOR BRACE - FF, TRIANGLE
7	475487	3	FLOOR SUPPORT CHANNEL BR
8	475520	1	TOWER PLENUM DOOR ASSY

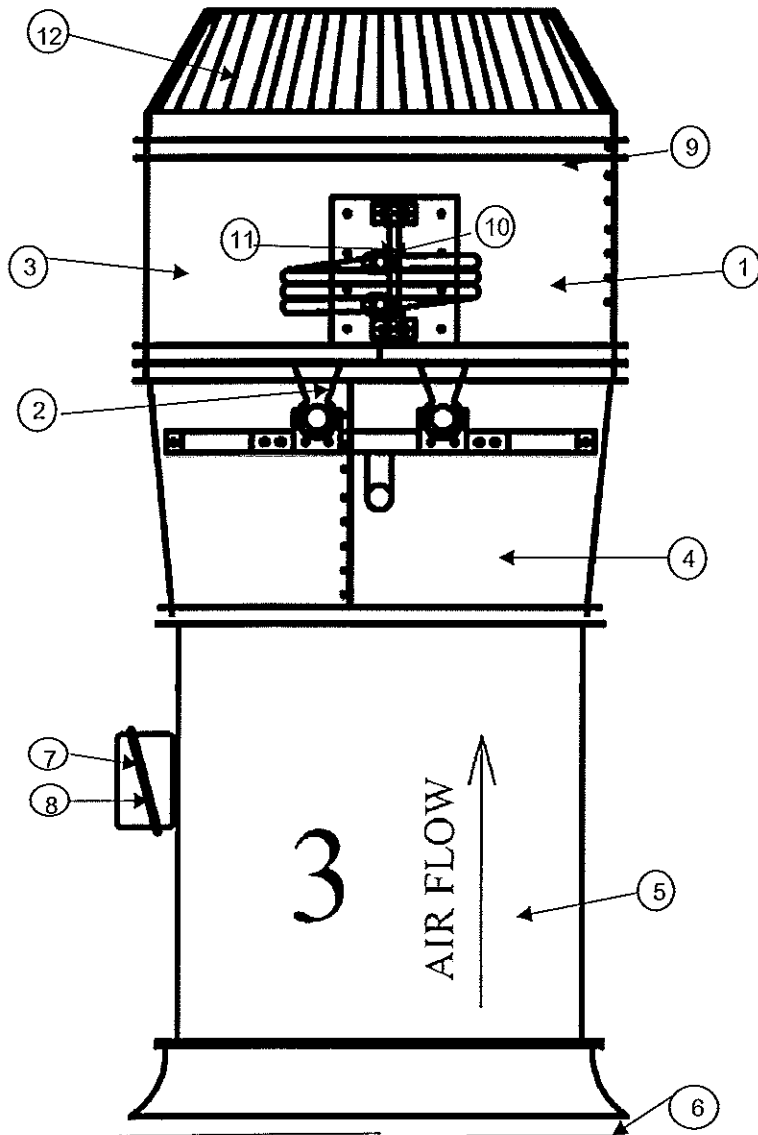
10 FT. HEAT CHAMBER SLOPE FLOOR



Ref Part No. Qty. Description

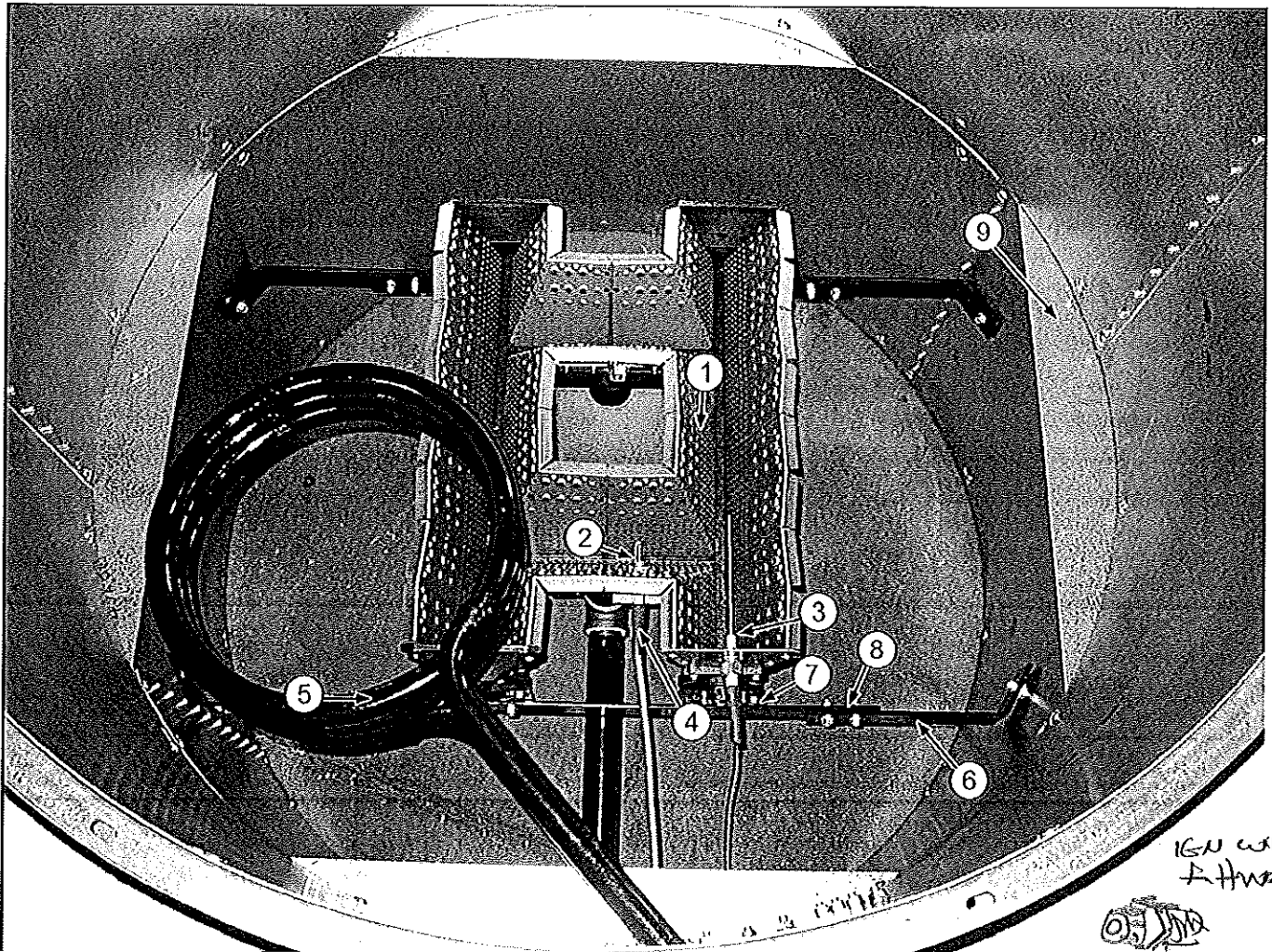
Ref Part No.	Qty.	Description
1	476222	2 FAN MOUNTING RING-43" FAN HOUSING
2	476223	3 FLOOR SUPPORT CHANNEL BRACE
3	476224	3 FAN HOUSING CROSS BRACE
4	476225	4 GRAIN DEFLECTOR RING
5	476226	26 SLOPE FLOOR SUPPORT BRACKET
6	476227	4 DIFFUSER RING
7	476435	8 BLOWER 43" TO FLOOR BRACKET
8	476229	5 SLOPE HEAT FLOOR 43" FAN HOUSING-ST
	476236	5 SLOPE HEAT FLOOR 38" FAN HOUSING-ST
9	476230	1 SLOPE HEAT FLOOR 43" FAN HOUSING-DO
	476237	1 SLOPE HEAT FLOOR 38" FAN HOUSING-DR
10	476231	1 SLOPE HEAT FLOOR 43" FAN HOUSING-EL
	476238	1 SLOPE HEAT FLOOR 38" FAN HOUSING-EL
11	476232	1 SLOPE HEAT FLOOR 43" FAN HOUSING-BP
	476239	1 SLOPE HEAT FLOOR 38" FAN HOUSING-BP
12	476240	1 SLOPE FLOOR HEAT DOOR
13	476241	2 LATCH CATCH MOUNT
14	476242	7 FLOOR GRATING-43" FAN HOUSING
15	476243	8 FLOOR BRACE-43" FAN HOUSING
16	476248	3 FLOOR BRACE - SF, TRIANGLE
17	476249	4 INNER PERF. LOWER HEAT SECTION-A (10520)
	476251	4 INNER PERF. LOWER HEAT SECTION-B (10630)
	476530	4 INNER PERF. LOWER HEAT SECTION-B (10730)
	476300	4 INNER PERF. LOWER HEAT SECTION-A (10840, 101275)
	476534	4 INNER PERF. LOWER HEAT SECTION-C (101050)
18	476250	4 INNER PERF. UPPER HEAT SECTION-A (10520)
	476252	4 INNER PERF. UPPER HEAT SECTION-B (10630)
	476531	4 INNER PERF. UPPER HEAT SECTION -B (10730)
	476301	4 INNER PERF. UPPER HEAT SECTION-A (10840, 101275)
	476535	4 INNER PERF. UPPER HEAT SECTION-B (101050)
	476531	4 INNER PERF. UPPER HEAT SECTION -B (10730)
19	476306	8 FLOOR RETAINING BAR
20	476477	1 PLY BELTING SHEET 1/8X12 X 12
21	475476	1 ROLLED FLOOR SUPPORT CHANNEL

FAN AND BURNER LAYOUT



Ref Part No	Qty	Description	Ref Part No	Qty.	Description		
1	475641	1	BURNER CYLINDER TOP (10520-10730)	5	475653	1	30HP VARIABLE PITCH FAN & HOUSING (10630)
	475642	1	101050 BURNER CYLINDER TOP (10840-101050)		475654	1	30HP VARIABLE PITCH FAN & HOUSING (10730)
	476060	1	101275 BURNER CYLINDER TOP (101275)		475899	1	40HP VARIABLE PITCH FAN HOUSING (10840)
2	1288707	1	8MBTU MAX DOUBLE "H" BURNER (10520-101275)		475651	1	50HP VARIABLE PITCH FAN (101050)
3	475874	1	VAPORIZER CYLINDER 10520-730		475872	1	75HP VARIABLE PITCH FAN & HOUSING
	475875	1	VAPORIZER CYLINDER 101050	6	475782	2	FAN GUARD HALF (10520-10730)
	476062	1	VAPORIZER CYLINDER 101275		475780	2	FAN GUARD HALF (10840-101275)
4	476457	1	BURNER CONE STD 10520-10730	7	441038	1	HOFFMAN JUNCTION BOX 12X10X5
	476458	2	BURNER CONE STD 10520-10730	8	1257064	3	SPLITTER BLOCK 1 POLE FS 175 AMP
	476459	1	BURNER CONE STD 10520-10730		1257065	3	SPLITTER BLOCK 1 POLE 310 AMP
	476460	1	BURNER CONE 10840-101050	9	475755	6	10520-10730 BURNER CHANNEL RING
	476461	2	BURNER CONE 10840-101050		475756	6	10840-101050 BURNER CHANNELRING
	476462	1	BURNER CONE 10840-101050		476059	6	101275 BURNER CHANNEL RING
	476463	1	BURNER CONE 101275	10	475856	1	VAPORIZER MOUNTING PANEL
	476464	2	BURNER CONE 101275	11	475859	2	SHAFT TUBE WELDMENT
	476465	1	BURNER CONE 101275		475863	1	PIVOT SHAFT WELDMENT
5	475652	1	20HP VARIABLE PITCH FAN & HOUSING (10520)		475853	1	VAPORIZER 3-RING MAXON SCH. 80 X 1"
				12	476499	4	10520-10730 CONE WALL DEFLECTOR
					476498	4	10840-101050 CONE WALL DEFLECTOR
					476497	4	101275 CONE WALL DEFLECTOR RING

BURNER

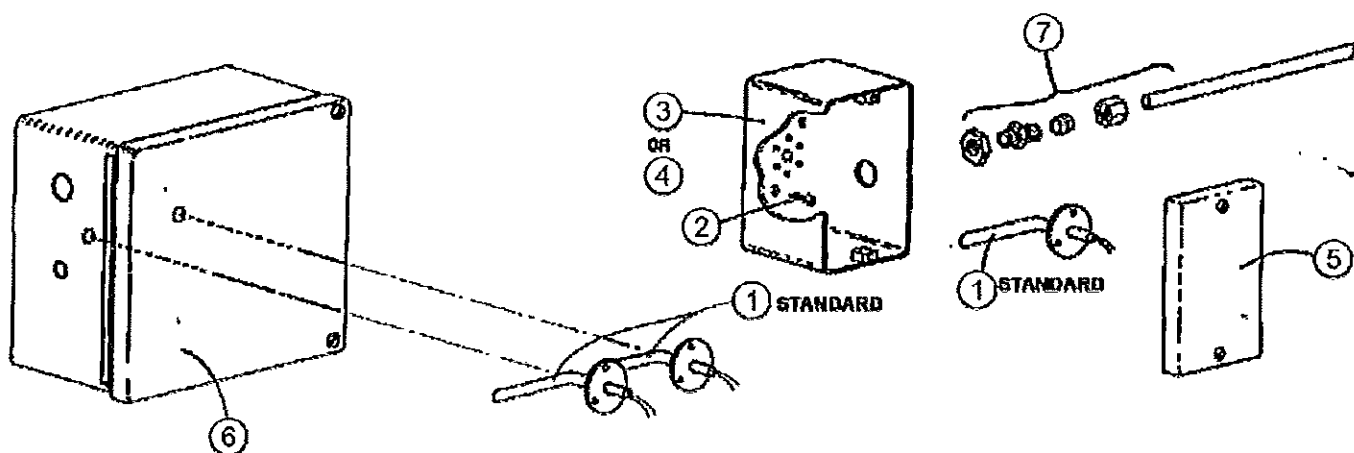


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A Hwy
1217032

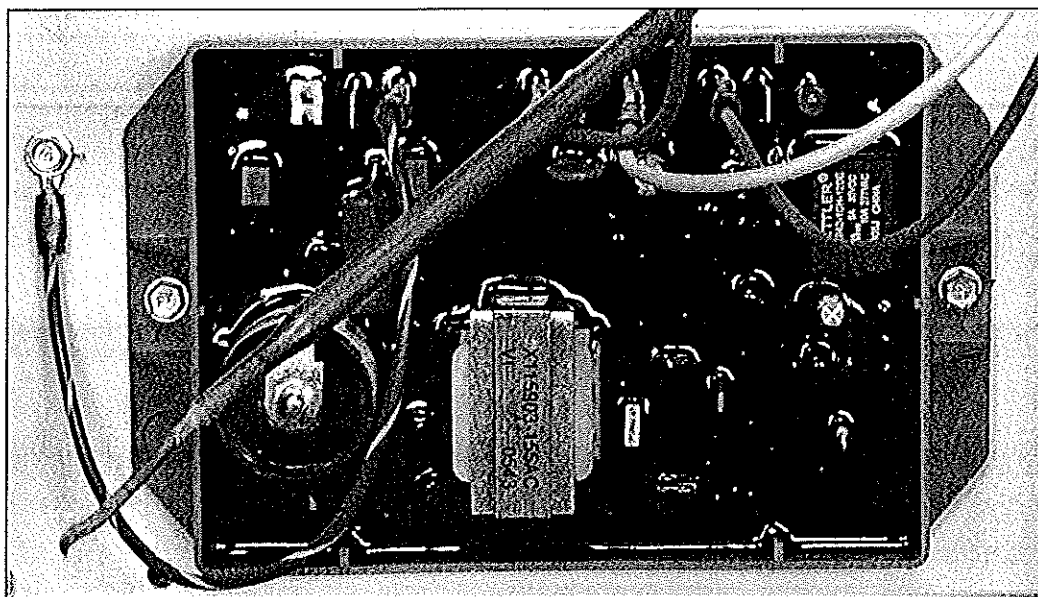
Ref.	Part No.	Qty.	Description
1	1288707	1	DOUBLE "H" BURNER-8MBTU MAX
2	1247000	1	MAXON SPARK PLUG
	1216879	9	RADIX-IGNITION WIRE 16 GAUGE (Quantity per foot)
3	1246872	1	FLAME SENSING PROBE
4	448065	1	BOOT - SPARK PLUG KS
5	475853	1	VAPORIZER 3-RING MAXON SCH. 80X 1"
6	475814	4	MAXON MOUNTING BRACKET 3650
7	1283436	4	MOUNTING BRACKET PLATE
8	1283440	2	MOUNTING BRACKET BAR
	1283441	2	MOUNTING BAR 4' MAXON
9	475638	4	10520-10730 FAN PROFILE PLATE
	475658	4	101050 FAN PROFILE PLATE
	476061	4	101275 FAN PROFILE PLATE
10	1246935	9	#18GA BLK L0-VOLT SENSING WIRE(Quantity per foot)
	476543	1	MAXON EDDY BAFFLE INNER PLATE (Not Shown)
	476495	1	MAXON EDDY BAFFLE OUTER PLATE (Not Shown)
	475883	1	MAXON BURNER COVER (Not Shown)

THERMISTORS

Ref.	Part No	Qty.	Description	Ref.	Part No	Qty.	Description
1	438700	8	THERMISTOR FENWAL	5	435507	6	THERMISTOR BOX COVER <i>Included with Thermistor Box</i>
2	0008184	24	8-18 x 1/2 PHIL PAN HD CP	6	475275	1	4-WAY THERM. BOX DRILLED
3	475195	5	BOX, THERMISTOR END 1 HOLE	7	475389	4	THERMISTOR LIQUATITE ASSY
4	475196	1	3-WAY THERMISTOR BOX				



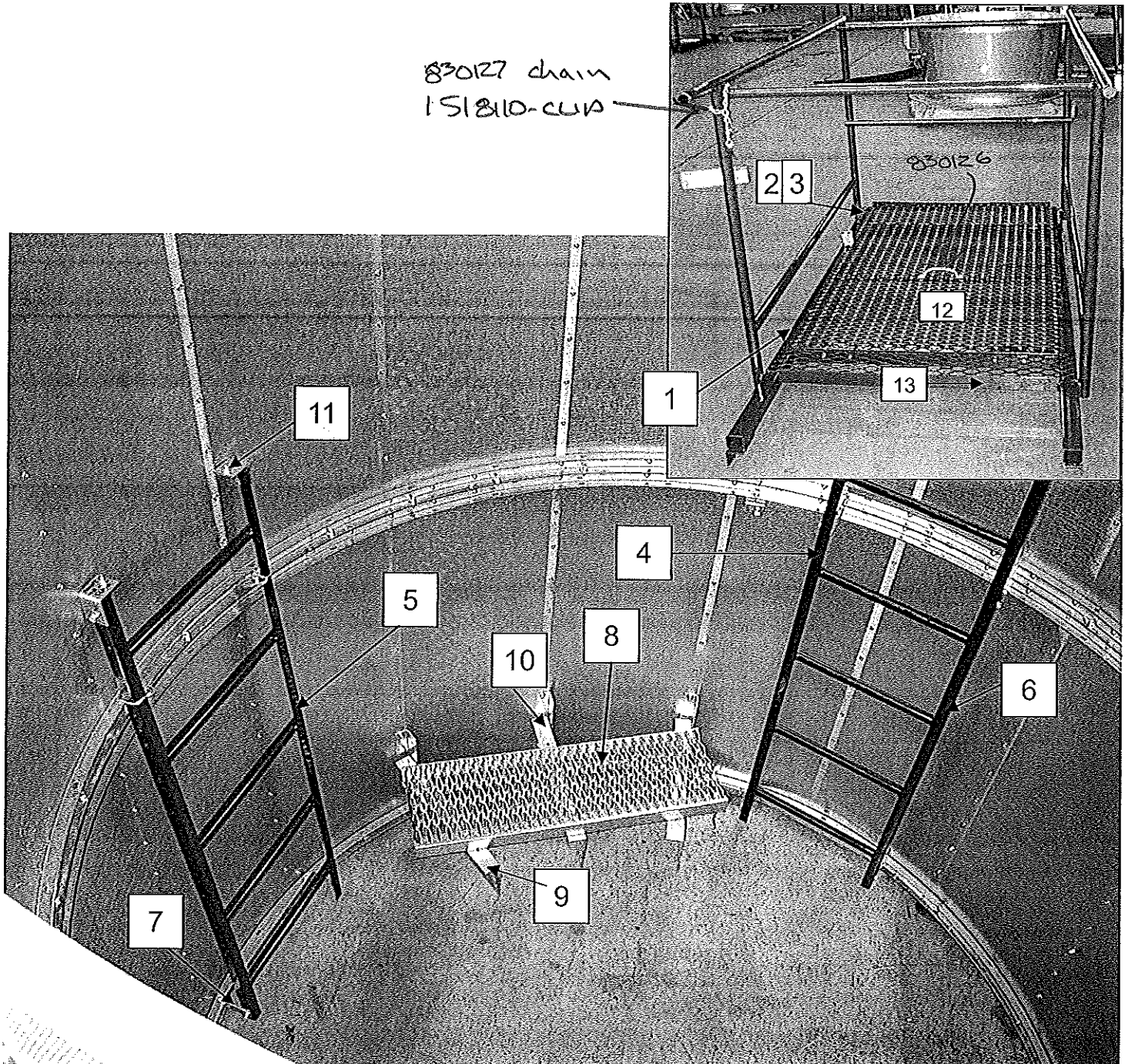
IGNITION BOARD



Part No	Qty.	Description
1256964	1	REMOTE IGN BRD '02 TOWER PARTS (15) SECOND PURGE - AUTO-RESET (10-SECOND IGNITION TRIAL)
1247000	1	MAXON SPARK PLUG (Not Shown)
1246872	1	FLAME SENSING PROBE (Not Shown)
1216813	AR	SQUEEZE FITTING #1 FOR IGN. WIRE
1216814	AR	FITTING #2 LOW VOLTAGE WIRE
1216879	AR	RADIX—IGNITION WIRE (Not Shown)
1246935	AR	#18GA BLK L0-VOLT SENSING WIRE (Not Shown)
1286994	1	IGNITION BOX 8"X8"X4"
1284690	1	IGNITION BRD MOUNT PLATE

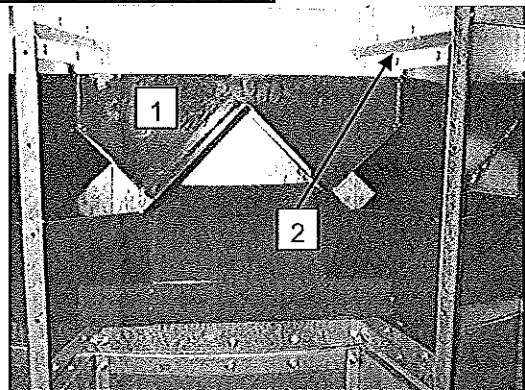
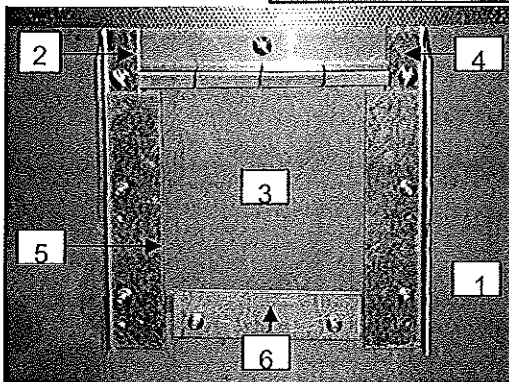
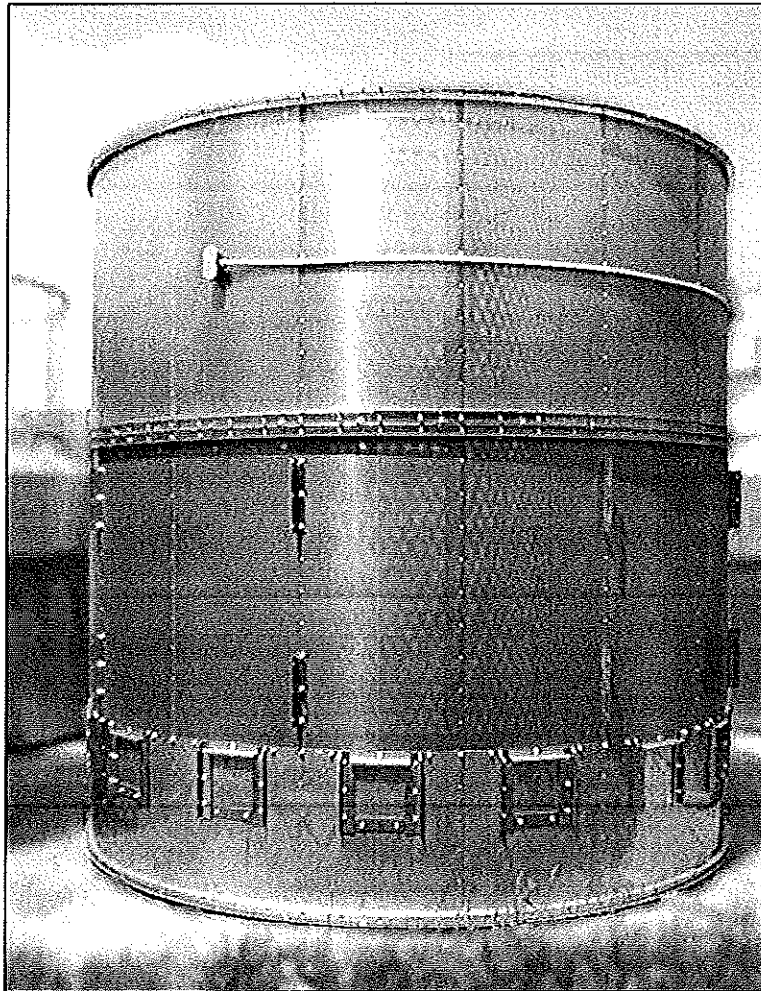
CLEAN-OUT WALKWAY & LADDER - 10 FT.

Ref.	Part No.	Qty.	10520	10630	10730	10840	101050	101275	Description
1	475330	0	1	1	1	2	2		CLEANING WALKWAY WELD
2	475057	0	2	2	2	4	4		FLOOR SUPPORT GUSSET RT
3	475056	0	2	2	2	4	4		FLOOR SUPPORT GUSSET LT
4	475062	0	1	2	2	3	4		8' LADDER WELDMENT
5	1290005		1						LADDER WELD 5' SECTION
6	475343	0	4	4	6	6	10		LADDER MOUNTING BRACKET
7	475333	0	4	4	5	6	8		INSIDE LADDER BRACKET
8	1208701	1	1	1	1	1	1		SHORT FLOOR PLANK 36"
9	475747	3	3	3	3	3	3		INNER WALKWAY SUPPORT
10	4903250	3	3	3	3	3	3		WALKWAY MOUNTING BRACKET
11	0013302	2	2	2	2	2	2		ANGLE CLIP UNIVERSAL
12	476508	1	1	1	1	1	1		10' CLEANING WALKWAY DOOR WELD
13	476520	1	1	1	1	1	1		PLATFORM DOOR HINGE ANGLE



OPTIONAL GRAIN TURNER

(10840, 101050, 101275 models only)



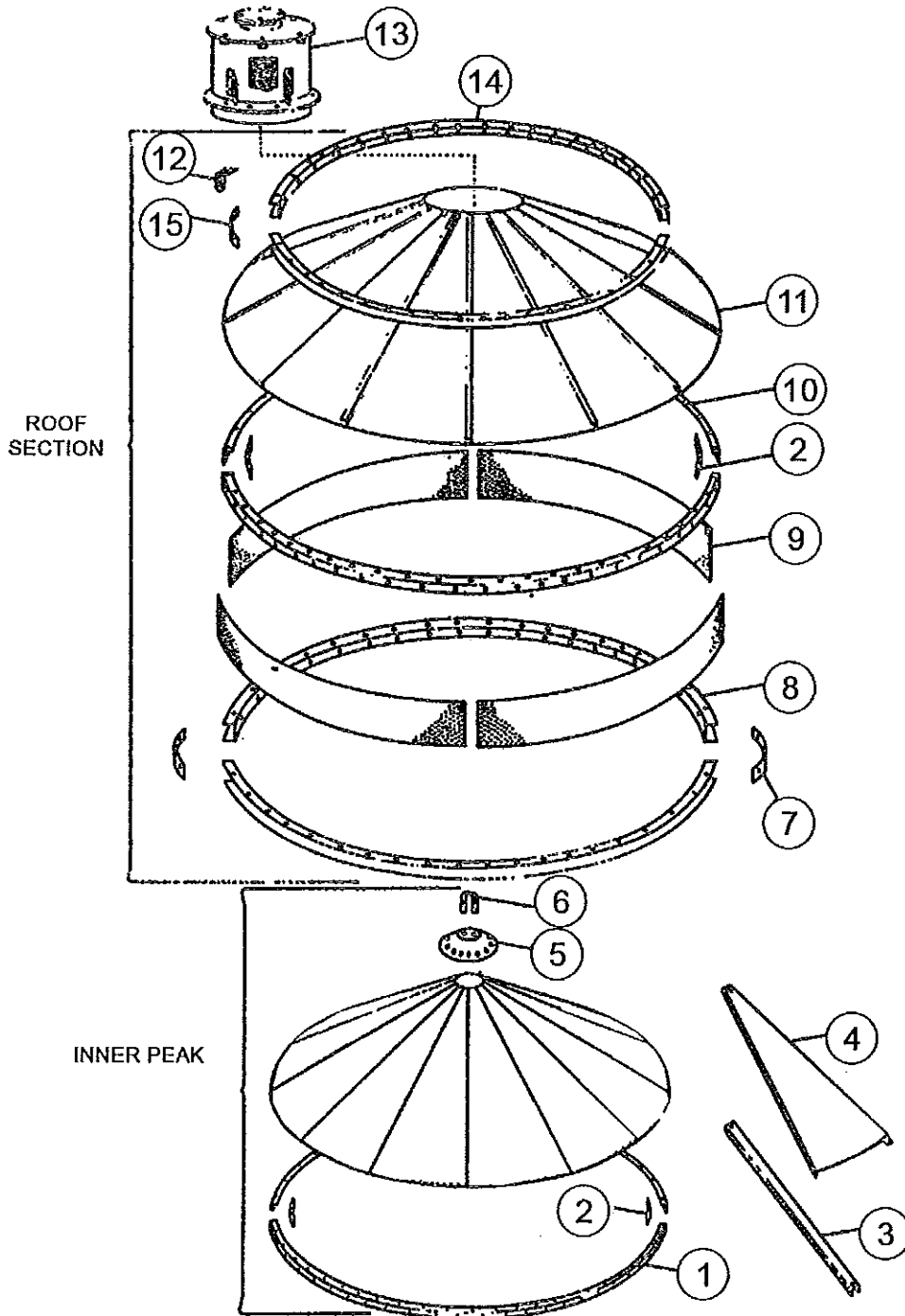
Ref Part No. Qty. Description

1	475589	4	2' KS GRAIN TURNER OUTER SOLID SHEET
2	475760	16	GRAIN TURNER DOOR STIFFENER LEFT
3	475761	16	GRAIN TURNER QUICK DUMP DOOR
4	475759	16	GRAIN TURNER DOOR STIFFENER RIGHT
5	475757	32	GRAIN TURNER DOOR RETAINER
6	475758	16	QUICK DUMP DOOR RETAINER-SHORT
—	475588	4	2' KS GRAIN TURNER INNER SOLID SHEET (Not Shown)
—	475587	16	6' GRAIN TURNER PARTITION (Not Shown)

Ref. Part No. Qty. Description

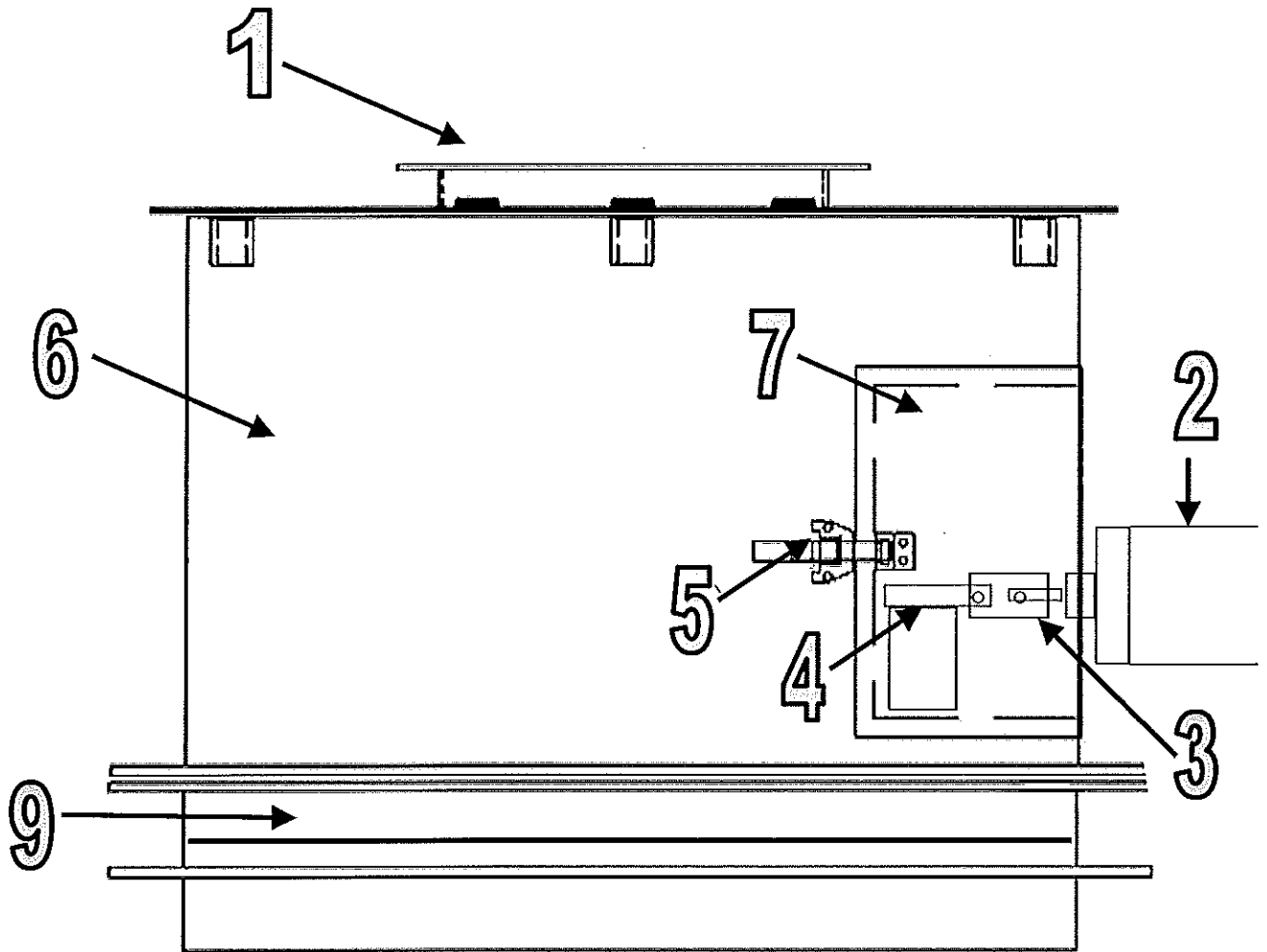
1	475596	16	10FT. GRAIN TURNER WELDMENT
2	475579	32	GRAIN TURNER REDUCER ANGLE

ROOF SECTION



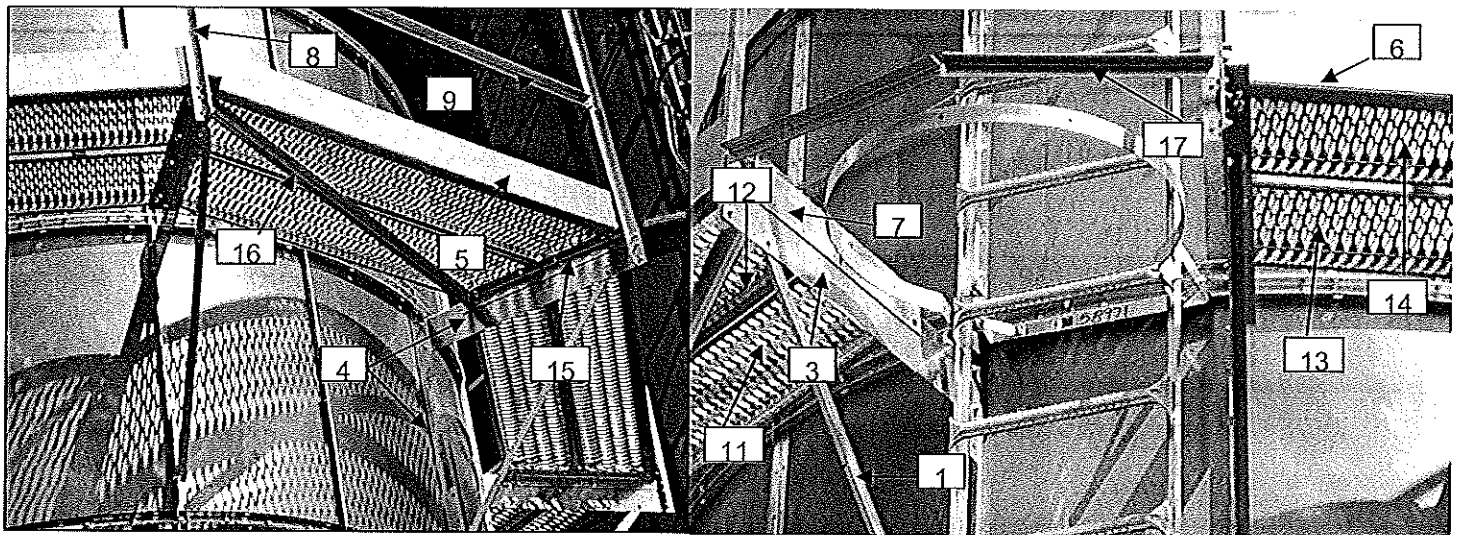
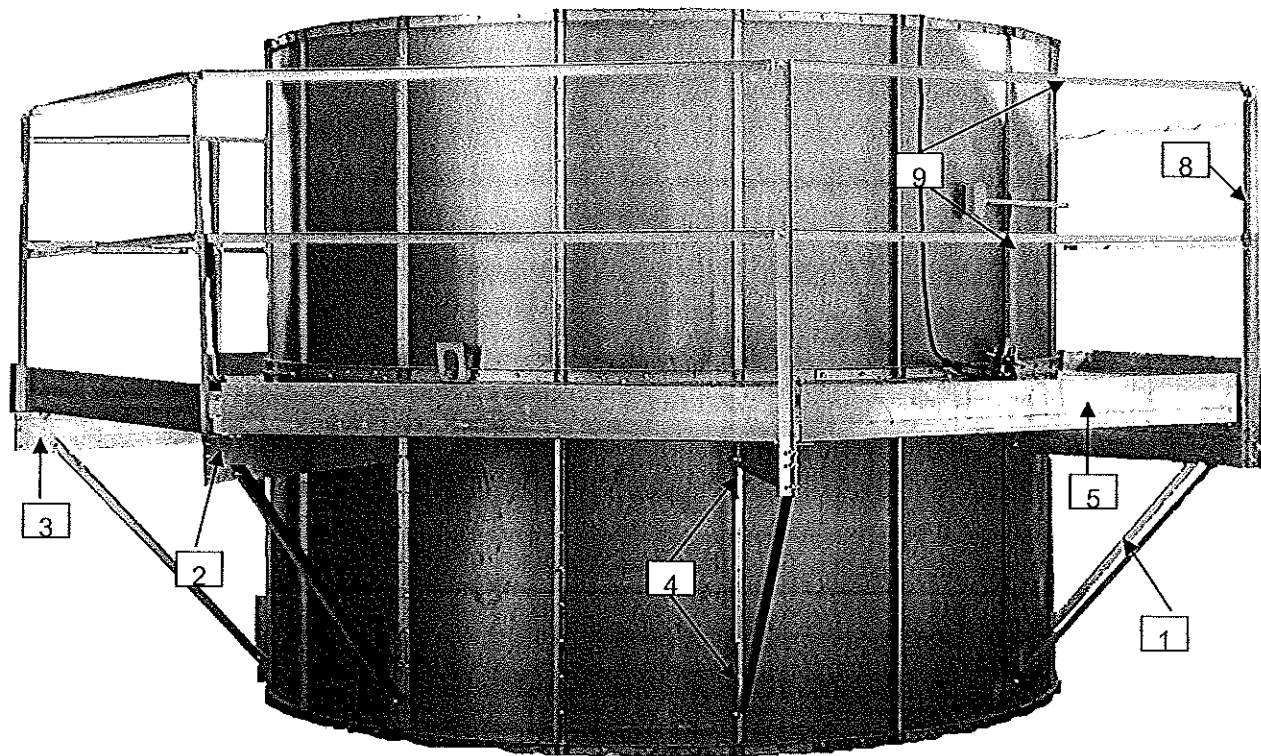
Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	833219	2	RING, TRANSITION	9	476120	4	WET HOLDING BIN PANEL SS 21.75"
2	834721	4	CLIP, FILLER M480	10	475026	2	OUTER 10' TRANSITION RING
3	441552	16	REIN CHANNEL 10' KS ROOF 11GA	11	475027	16	OUTER ROOF PANEL
4	476132	16	INNER SOLID PEAK PANEL 10'	12	0013302	8	ANGLE CLIP UNIVERSAL
5	439063	1	ROOF CAP M001	13	475092	1	GRAIN RECEIVING ASSEMBLY
6	0008311	1	1/2" X 4-3/4" U-BOLT GR5, ROOF CAP	14	475252	2	OUTER ROOF CHANNEL RING
7	438649	2	TAB OUTER RING BOLTING	15	833353	2	TAB INNER RING BOLTING
8	438761	2	OUTSIDE CHANNEL RING				

GRAIN RECEIVING TOP ASSEMBLY



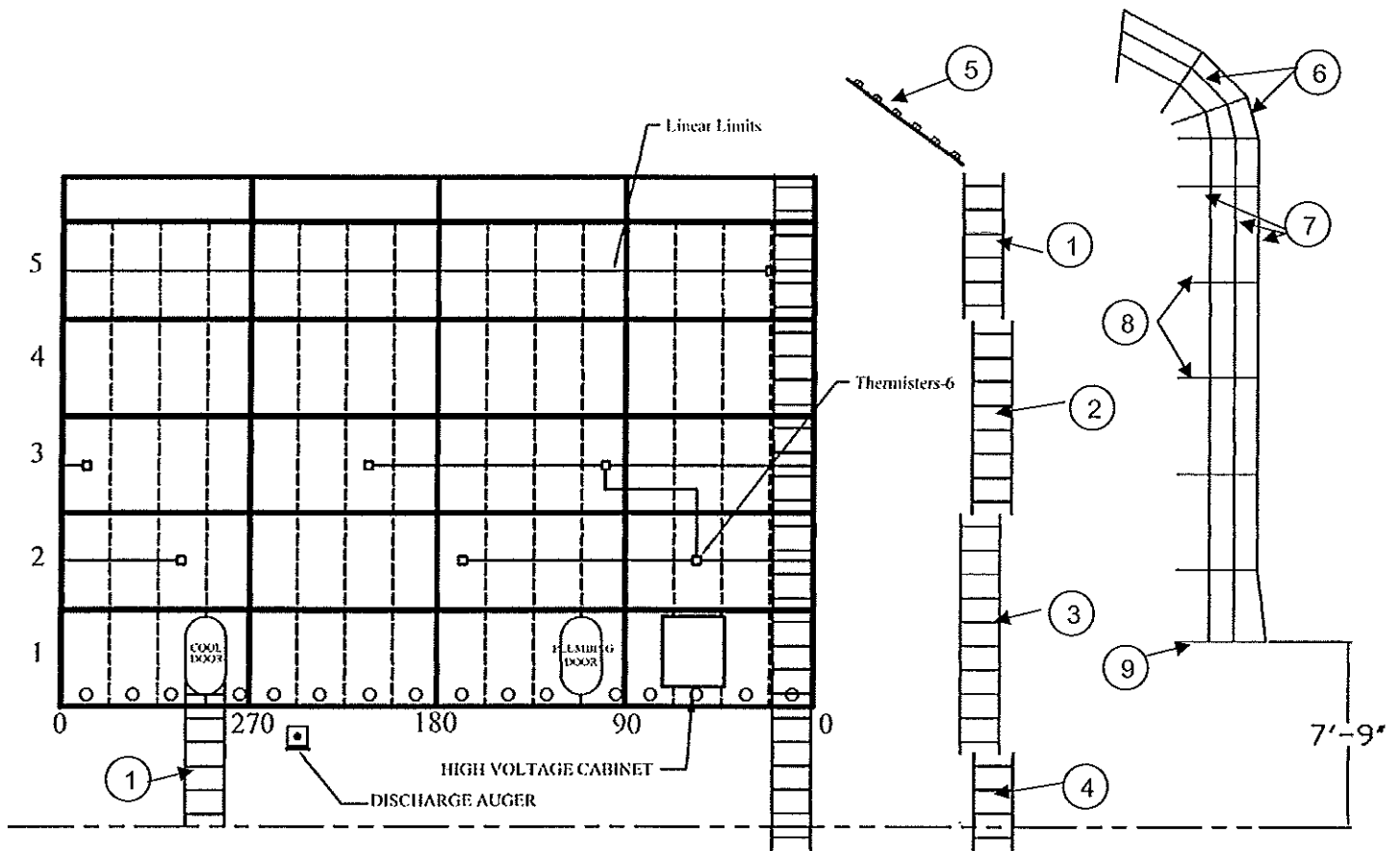
Ref.	Part No.	Qty.	Description
1	475091	1	RECEIVE TUBE PLATE WELD
2	475226	1	ROTARY INDICATOR
3	475228	1	SHAFT COUPLER, GRSS-1
4	476280	1	SINGLE BLADE PADDLE-14GA
5	1288960	2	HEAVY DUTY OVER CENTER LATCH
6	476097	1	GRAIN RECEIVING WELDMENT W/DOOR
7	476124	1	RECEIVE TUBE OUTER ACCESS DOOR
8	476285	1	RT INNER DOOR WELDMENT W/BIN SWITCH (Not Shown)
9	476121	1	GRAIN RECEIVING COLLAR WELDMENT
		2	LOCK NUT 1-1/4" (Not Shown)
	1294204	1	RECEIVING TUBE COVER (Not Shown)

WALKWAY



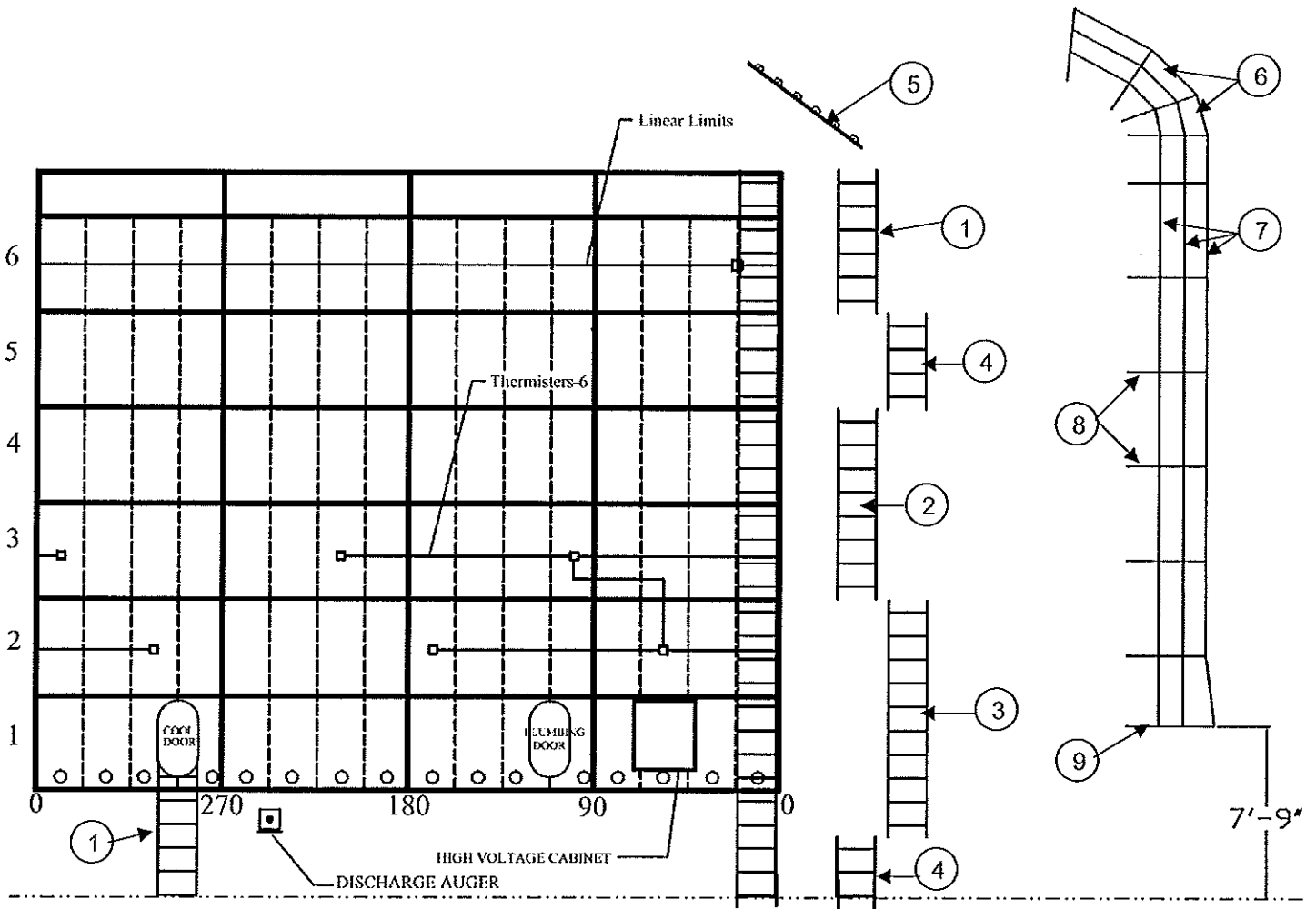
Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	475708	9	WALKWAY SUPPORT LEG	11	475717	7	OUTSIDE WALKWAY INNER LONG
2	4902635	8	FLOOR PLANK MAIN SUPPORT	12	475718	7	OUTSIDE WALKWAY OUTER LONG
3	475710	1	FLOOR PLANK SUPPORT L/S	13	475719	1	OUTSIDE WALKWAY INNER SHORT
4	4903250	18	WALKWAY MOUNTING BRACKET	14	475720	1	OUTSIDE WALKWAY OUTER SHORT
	475745	9	BRACE, ANGLE WITH BRACKET M010	15	475711	7	FLOOR PLANK SUPPORT
5	475712	7	WALKWAY TOE KICK ANGLE	16	475744	2	WALKWAY STIFFENER
6	475713	1	WALKWAY TOE KICK ANGLE-SHORT	17	476135	3	STANDARD GUARD RAIL 45"
7	475714	2	WALKWAY ENDPLATE CAP		0008168	150	3/8-16 FLNG WHIZ LKNT ZP (Not Shown)
8	4903248	9	GUARD RAIL SUPPORT POST		0008169	75	5/16-18 FLNG WHZ LKNT ZP (Not Shown)
9	475715	14	STANDARD GUARD RAIL		1208994	85	FLOOR GRATING ANCHOR CLIP (Not Shown)
10	475716	2	GUARD RAIL—SHORT (Not Shown)				

OUTSIDE LADDER & SAFETY CAGE ASSEMBLY 10520



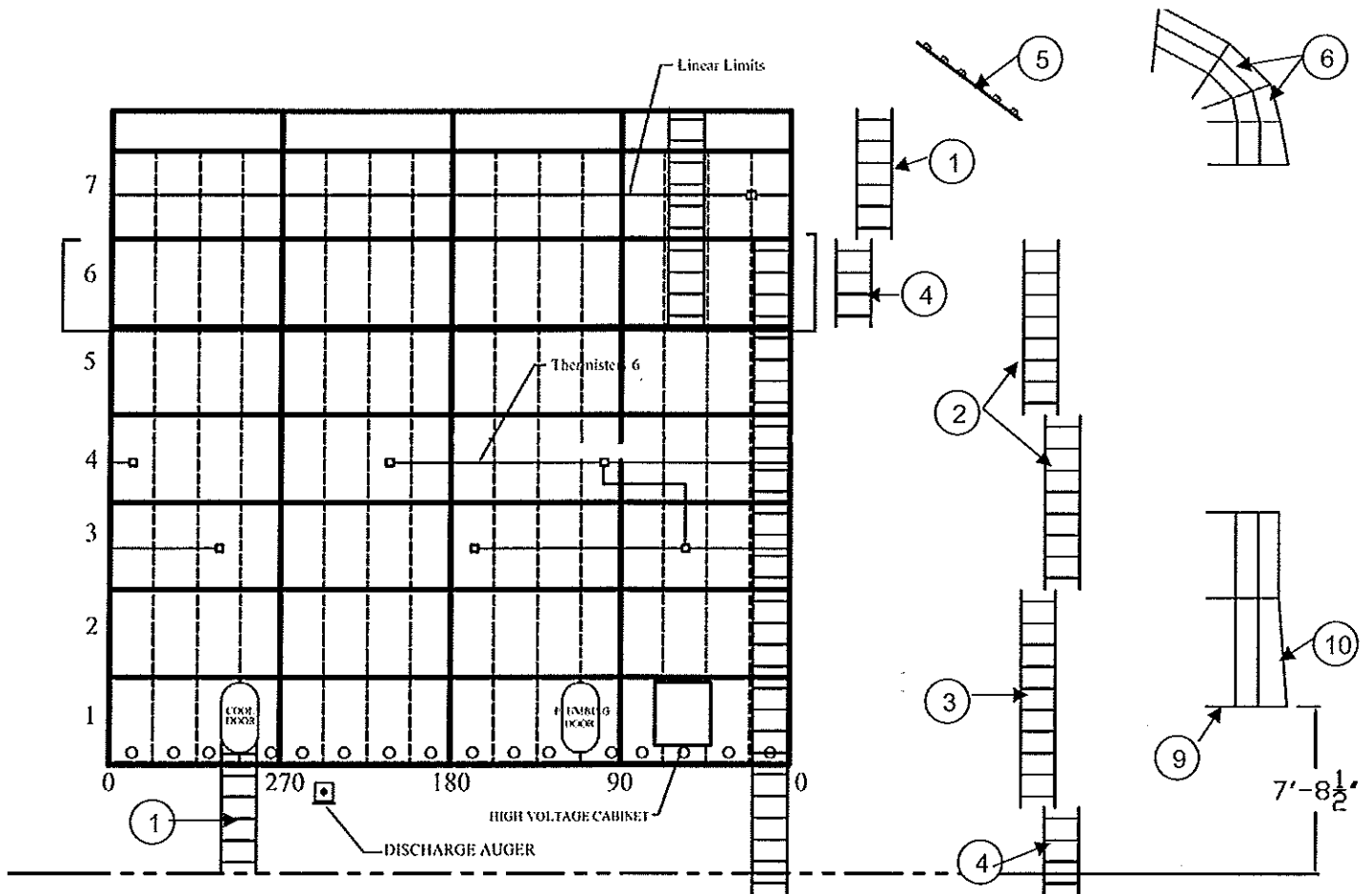
Ref.	Part No.	Qty.	Description
1	4908700	2	6' SURE GRIP LADDER SECTION
2	4908711	1	8' SURE GRIP LADDER SECTION
3	4908703	1	10' SURE GRIP LADDER SECTION
4	4908702	1	4' SURE GRIP LADDER SECTION
5	4908701	1	5' SURE GRIP LADDER SECTION
6	476175	7	3' CAGE STRAP
7	475722	35	4' CAGE STRAP
8	1282058	8	LADDER CAGE HOOP
9	1282057	1	LADDER CAGE HOOP—BOTTOM
	1292040	2	LADDER TO CONCRETE BRACKET (Not Shown)
	475059	2	LADDER CONNECTOR BRACKET (Not Shown)
	475721	8	MAIN LADDER BRACKET (Not Shown)
	475724	1	PEAK LADDER BRACKET (Not Shown)
	4902646	6	LADDER SPLICE (Not Shown)
	4908704	14	CLIP-SURE GRIP (Not Shown)
	475927	1	ENTRANCE LADDER BRACKET (SHORTER)
	4902011	16	OUTSIDE LADDER BRK STIFFENER

OUTSIDE LADDER & SAFETY CAGE ASSEMBLY 10630



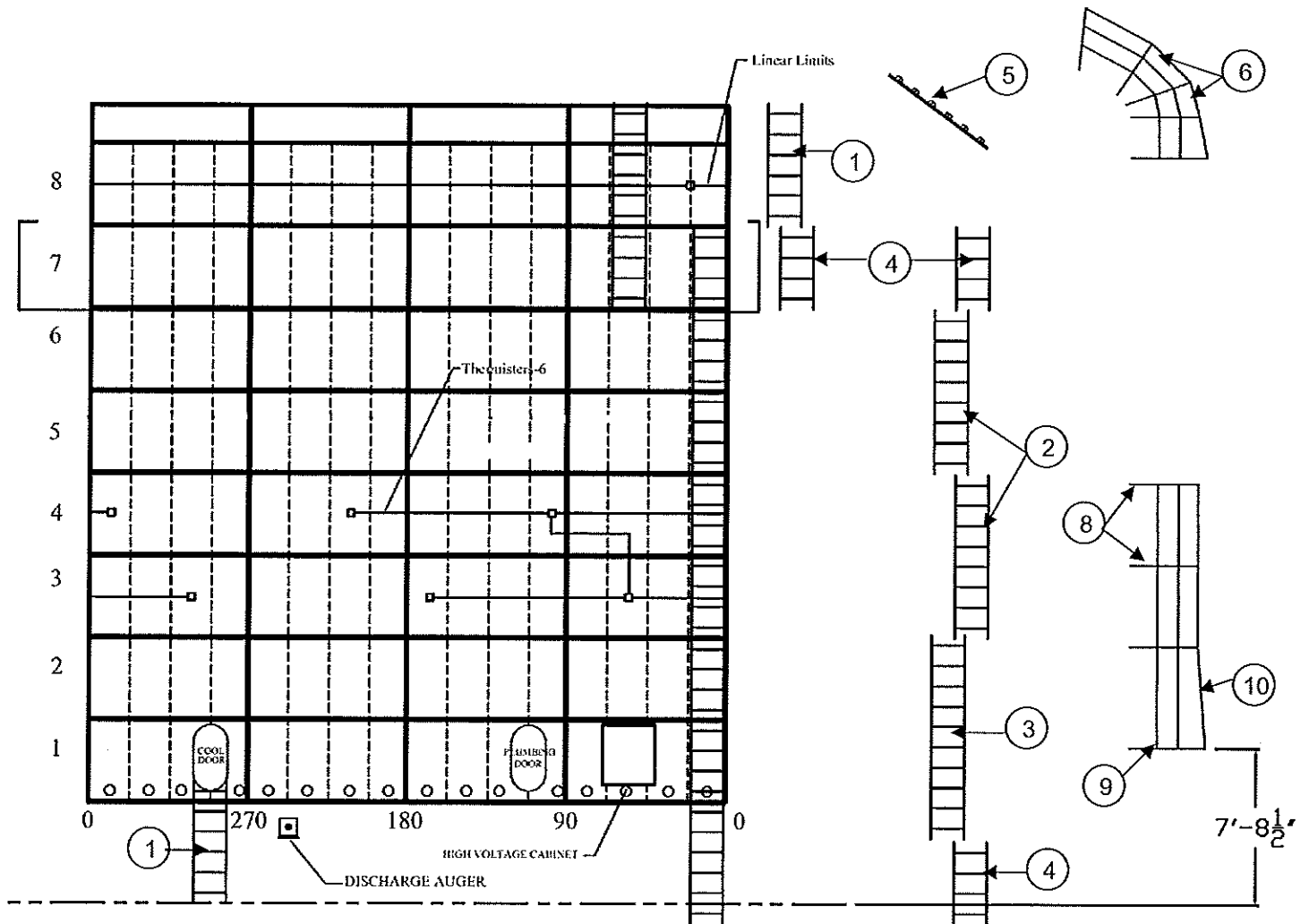
Ref.	Part No.	Qty.	Description
1	4908700	2	6' SURE GRIP LADDER SECTION
2	4908711	1	8' SURE GRIP LADDER SECTION
3	4908703	1	10' SURE GRIP LADDER SECTION
4	4908702	2	4' SURE GRIP LADDER SECTION
5	4908701	1	5' SURE GRIP LADDER SECTION
6	476175	7	3' CAGE STRAP
7	475722	49	4' CAGE STRAP
8	1282058	9	LADDER CAGE HOOP
9	1282057	1	LADDER CAGE HOOP-BOTTOM
	1292040	2	LADDER TO CONCRETE BRACKET (Not Shown)
	475059	2	LADDER CONNECTOR BRACKET (Not Shown)
	475721	10	MAIN LADDER BRACKET (Not Shown)
	475724	1	PEAK LADDER BRACKET (Not Shown)
	4902646	8	LADDER SPLICE (Not Shown)
	4908704	24	CLIP-SURE GRIP (Not Shown)
	475927	1	ENTRANCE LADDER BRACKET (SHORTER)
	4902011	16	OUTSIDE LADDER BRK STIFFENER

OUTSIDE LADDER & SAFETY CAGE ASSEMBLY 10730



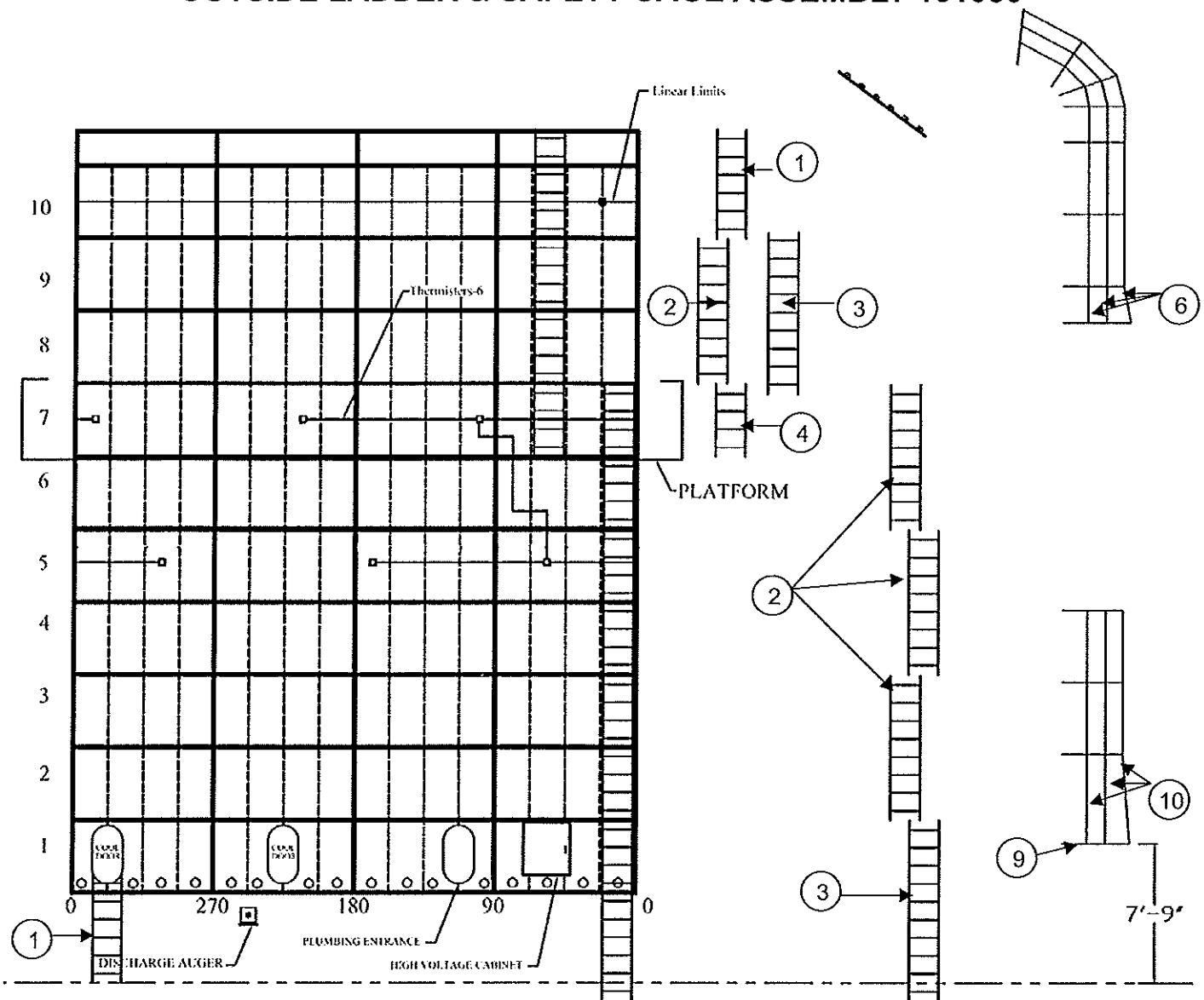
Ref.	Part No.	Qty.	Description
1	4908700	2	6' SURE GRIP LADDER SECTION
2	4908711	2	8' SURE GRIP LADDER SECTION
3	4908703	1	10' SURE GRIP LADDER SECTION
4	4908702	2	4' SURE GRIP LADDER SECTION
5	4908701	1	5' SURE GRIP LADDER SECTION
6	4902027	7	2' CAGE STRAP-10' & 18'
7	475722	7	4' CAGE STRAP
	475090	4	SAFETY CAGE CONN. STRAP
8	1282058	6	LADDER CAGE HOOP
9	1282057	2	LADDER CAGE HOOP-BOTTOM
10	475730	7	5' LADDER CAGE STRAP
	1292040	2	LADDER TO CONCRETE BRACKET (Not Shown)
	475059	2	LADDER CONNECTOR BRACKET (Not Shown)
	475721	13	MAIN LADDER BRACKET (Not Shown)
	475724	1	PEAK LADDER BRACKET (Not Shown)
	4902646	8	LADDER SPLICE (Not Shown)
	4908704	26	CLIP-SURE GRIP (Not Shown)
	475927	1	ENTRANCE LADDER BRACKET (SHORTER)
	4902011	16	OUTSIDE LADDER BRK STIFFENER

OUTSIDE LADDER & SAFETY CAGE ASSEMBLY 10840



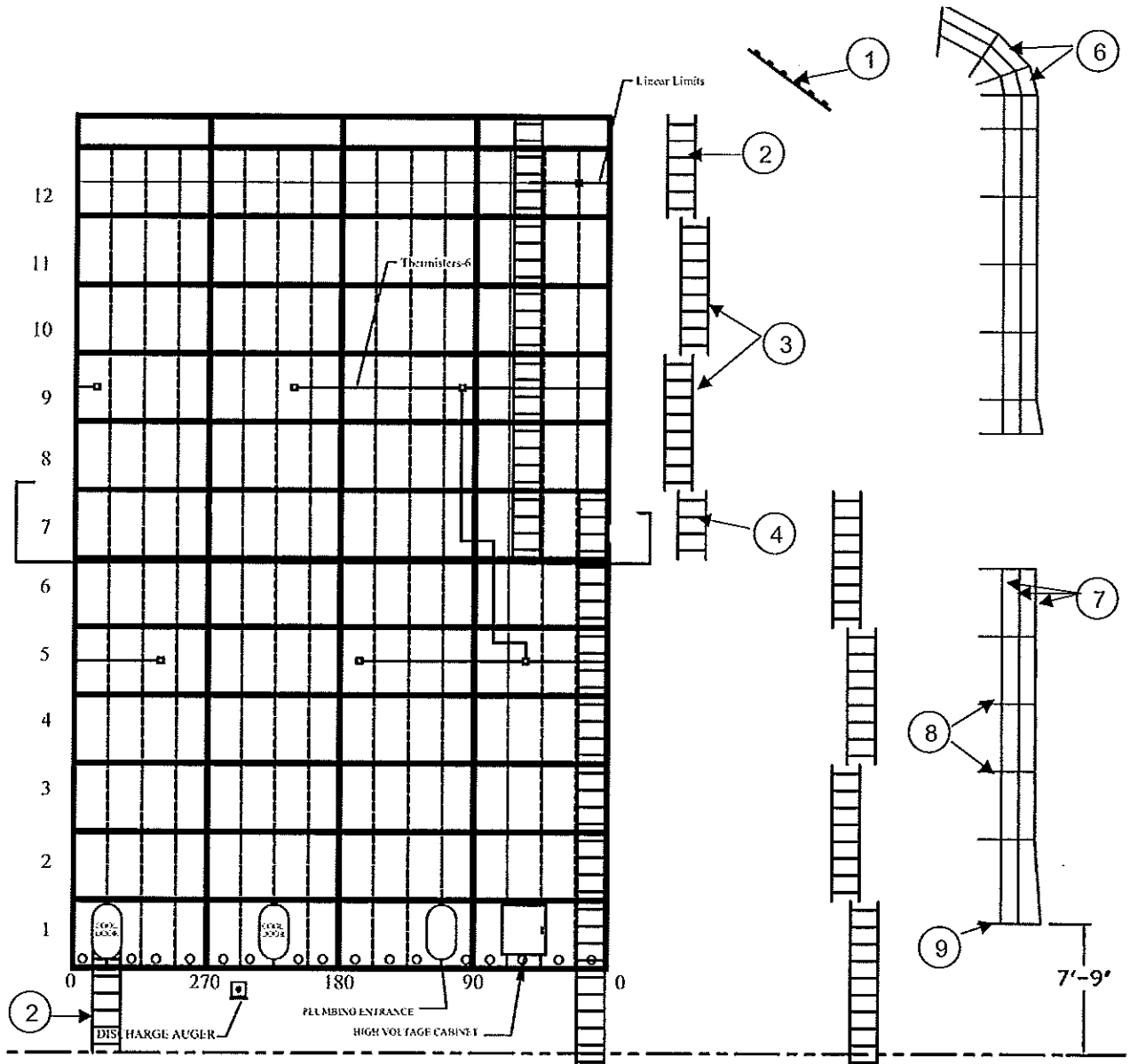
Ref.	Part No.	Qty.	Description
1	4908700	2	6' SURE GRIP LADDER SECTION
2	4908711	2	8' SURE GRIP LADDER SECTION
3	4908703	1	10' SURE GRIP LADDER SECTION
4	4908702	3	4' SURE GRIP LADDER SECTION
5	4908701	1	5' SURE GRIP LADDER SECTION
6	4902027	7	2' CAGE STRAP-10' & 18'
7	475722	14	4' CAGE STRAP
	475090	4	SAFETY CAGE CONN. STRAP
8	1282058	7	LADDER CAGE HOOP
9	1282057	2	LADDER CAGE HOOP-BOTTOM
10	475730	7	5' LADDER CAGE STRAP
	1292040	2	LADDER TO CONCRETE BRACKET (Not Shown)
	475059	2	LADDER CONNECTOR BRACKET (Not Shown)
	475721	15	MAIN LADDER BRACKET (Not Shown)
	475724	1	PEAK LADDER BRACKET (Not Shown)
	4902646	10	LADDER SPLICE (Not Shown)
	4908704	30	CLIP-SURE GRIP (Not Shown)
	475927	1	ENTRANCE LADDER BRACKET (SHORTER)
	4902011	16	OUTSIDE LADDER BRK STIFFENER

OUTSIDE LADDER & SAFETY CAGE ASSEMBLY 101050



Ref.	Part No.	Qty.	Description
1	4908700	2	6' SURE GRIP LADDER SECTION
2	4908711	4	8' SURE GRIP LADDER SECTION
3	4908703	1	10' SURE GRIP LADDER SECTION
4	4908702	1	4' SURE GRIP LADDER SECTION
5	4908701	1	5' SURE GRIP LADDER SECTION
6	4902027	7	2' CAGE STRAP-10' & 18'
7	475722	28	4' CAGE STRAP
	475090	4	SAFETY CAGE CONN. STRAP
8	1282058	9	LADDER CAGE HOOP
9	1282057	2	LADDER CAGE HOOP-BOTTOM
10	475730	7	5' LADDER CAGE STRAP
	1292040	2	LADDER TO CONCRETE BRACKET (Not Shown)
	475059	2	LADDER CONNECTOR BRACKET (Not Shown)
	475721	19	MAIN LADDER BRACKET (Not Shown)
	475724	1	PEAK LADDER BRACKET (Not Shown)
	4902646	12	LADDER SPLICE (Not Shown)
	4908704	34	CLIP-SURE GRIP (Not Shown)
	475927	1	ENTRANCE LADDER BRACKET (SHORTER)
	4902011	16	OUTSIDE LADDER BRK STIFFENER

OUTSIDE LADDER & SAFETY CAGE ASSEMBLY 101275



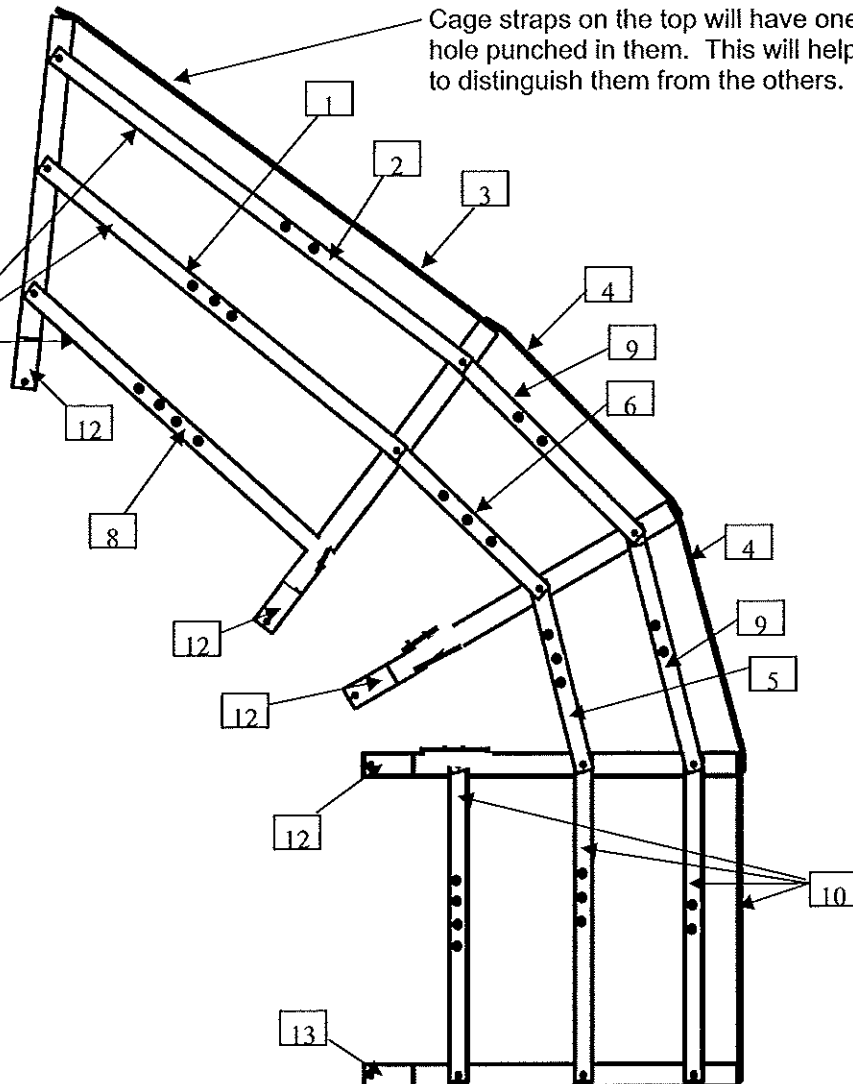
Ref.	Part No.	Qty.	Description
1	4908701	1	5' SURE GRIP LADDER SECTION
2	4908700	2	6' SURE GRIP LADDER SECTION
3	4908711	5	8' SURE GRIP LADDER SECTION
4	4908702	1	4' SURE GRIP LADDER SECTION
5	4908703	1	10' SURE GRIP LADDER SECTION
6	4902027	7	2' CAGE STRAP-10' & 18'
7	475722	63	4' CAGE STRAP
	475090	8	SAFETY CAGE CONN. STRAP
8	1282058	13	LADDER CAGE HOOP
9	1282057	2	LADDER CAGE HOOP-BOTTOM
10	475730	7	5' LADDER CAGE STRAP
	475721	21	MAIN LADDER BRACKET (Not Shown)
	4908704	40	CLIP-SURE GRIP (Not Shown)
	475724	1	PEAK LADDER BRACKET (Not Shown)
	475059	2	LADDER CONNECTOR BRACKET (Not Shown)
	4902646	14	LADDER SPLICE (Not Shown)
	475927	1	ENTRANCE LADDER BRACKET (SHORTER)
	4902011	16	OUTSIDE LADDER BRK STIFFENER

SAFETY CAGE STRAPS

Cage straps in succeeding levels will also have holes punched to distinguish them from one another. The second row will have two holes, the third will have three, and the bottom strap will have four holes punched in it.

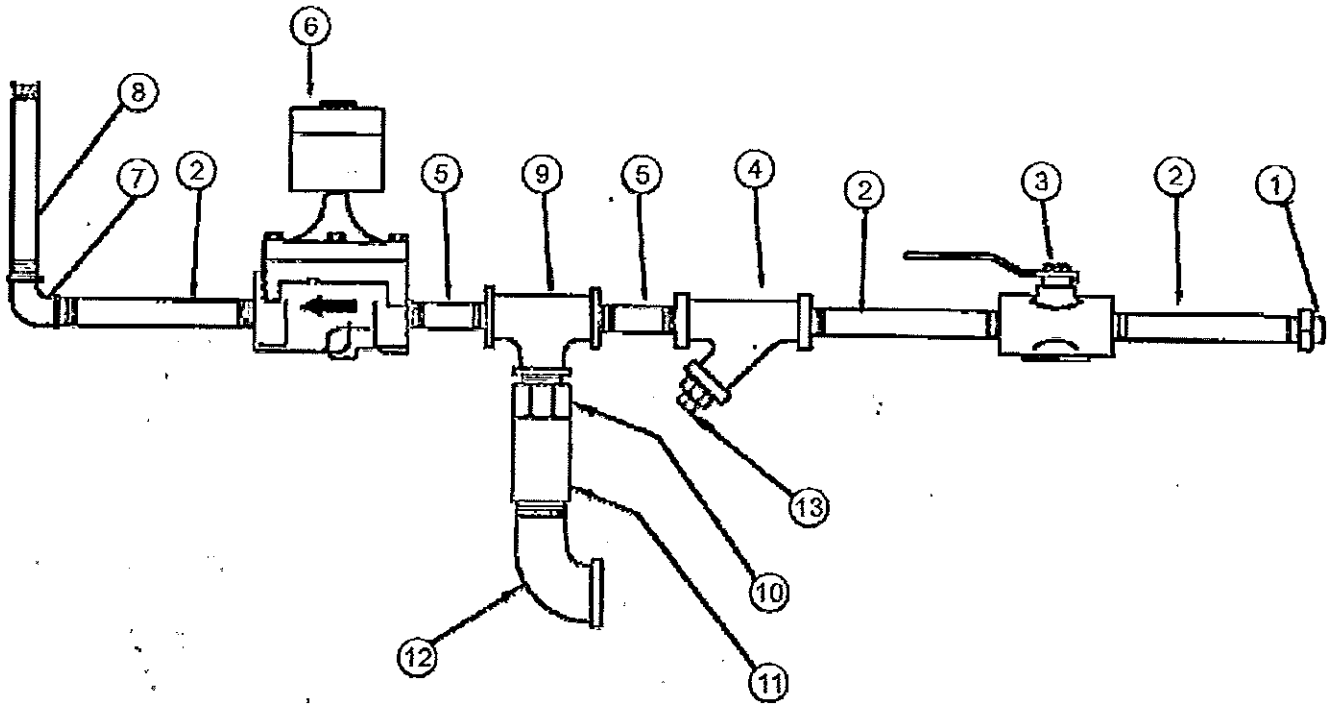
The hole pattern is shown in the top section of this drawing.

Cage straps on the top will have one hole punched in them. This will help to distinguish them from the others.



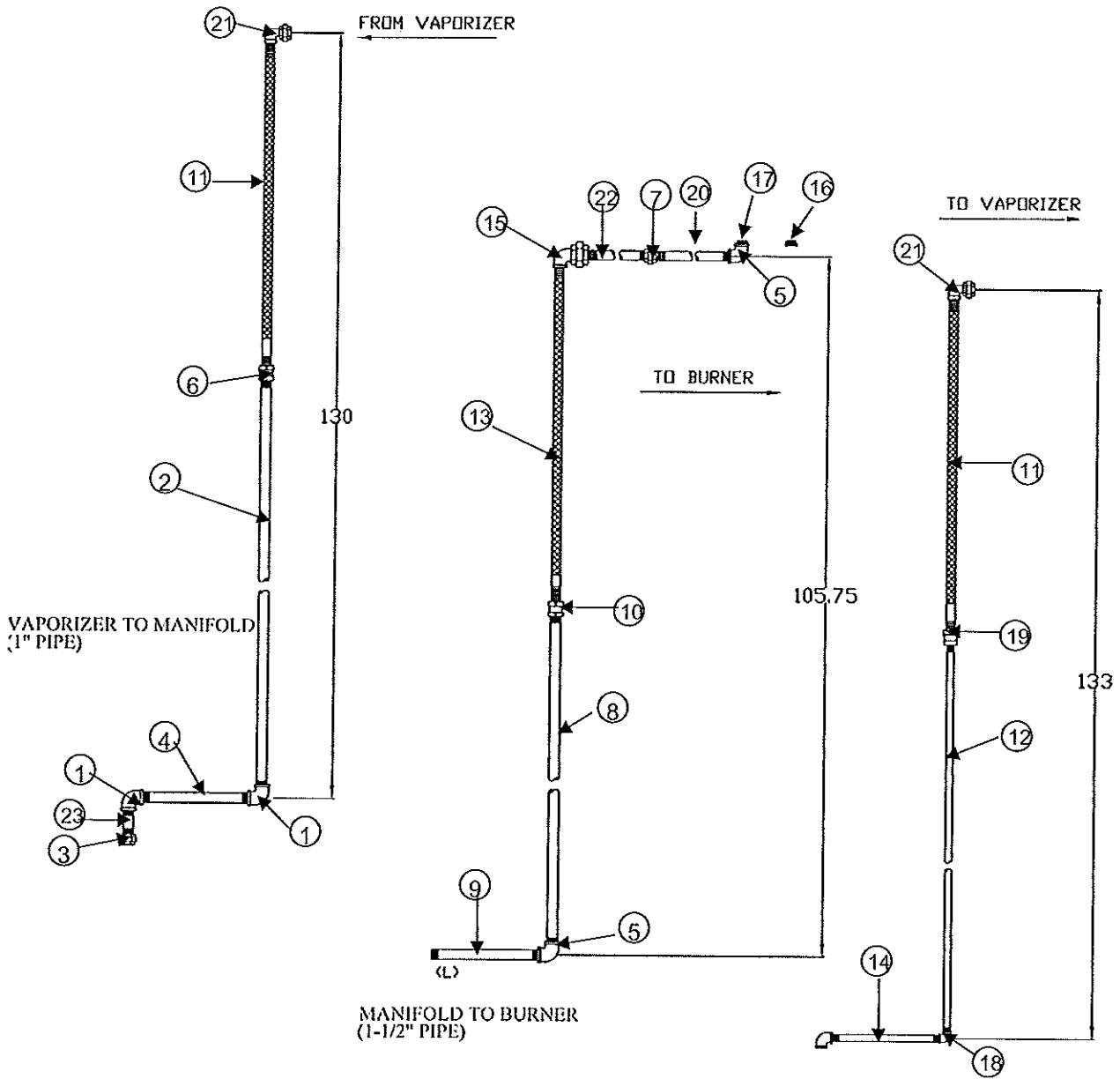
Ref. Part No.	Qty.	Description
1	476287	2 10' UPPER PEAK CAGE STRAP 34 1/8"
2	476286	2 10' UPPER PEAK CAGE STRAP 39 7/8"
3	476299	1 10' UPPER PEAK CAGE STRAP 41 7/8"
4	476295	2 10' UPPER PEAK CAGE STRAP 21 3/8"
5	476294	2 10' UPPER PEAK CAGE STRAP 16 1/8"
6	476297	2 10' UPPER PEAK CAGE STRAP 15 5/8"
7	476296	2 10' UPPER PEAK CAGE STRAP 10 3/8"
8	476298	2 10' UPPER PEAK CAGE STRAP 28 7/8"
9	475090	4 SAFETY CAGE CONN. STRAP
10	4902027	7 2' CAGE STRAP -10' & 18'
11	476293	2 10' UPPER PEAK CAGE STRAP 11 3/8"
12	1282058	4 LADDER CAGE HOOP
13	1282057	1 LADDER CAGE HOOP - BOTTOM

LIQUID PROPANE INTAKE LINE



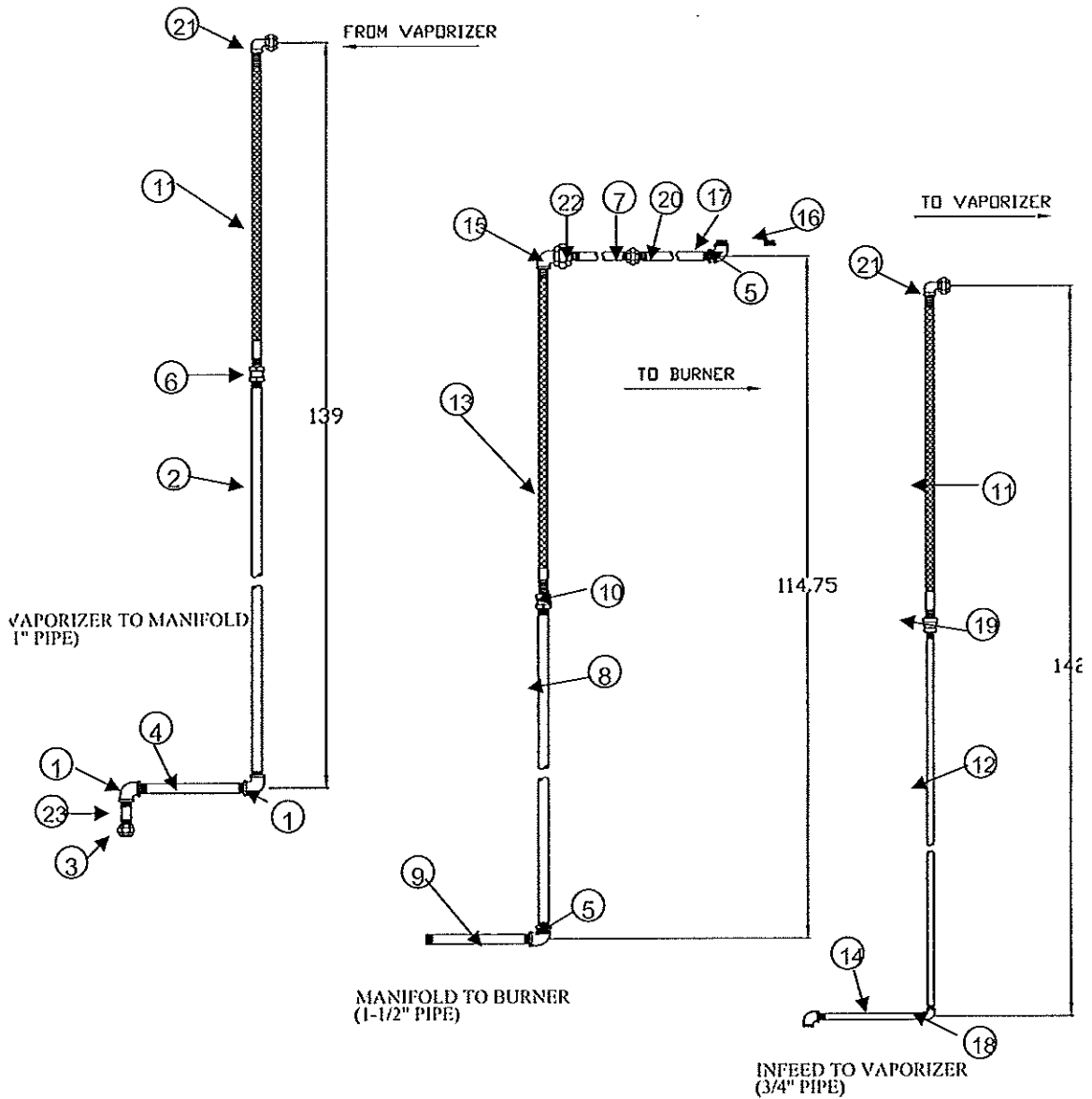
Ref.	Part No	Qty.	Description	Ref.	Part No	Qty.	Description
1	1218034	1	3/4 EXT HVY PIPE CAP-MC#475123	8	1218005	1	3/4 X 1 1/2 EXHVV NIPL
2	1218092	3	3/4 X 4 EX. HVY. NIPPLE	9	1288056	1	3/4 X 3/4 X 1/2 EXHVV
3	1217011	1	MAIN HAND VALVE 3/4" LP	10	1217014	1	RELIEF VALVE ADAPTER 1/2" NPT
4	1218060	1	3/4 FULL FLOW DIRT STRAINER	11	1217013	1	1/2" NPT LQ RELIEF VALVE
5	1218006	2	3/4" X 2" EX HVY NIPPLE	12	1248326	1	1/2 90DEG PVC STR ELBOW
6	475561	1	3/4" SOLENOID VALVE	13	1238080	1	1/2"EX.HVV.BLK.PIPE CAP-MC #475117
7	1218027	1	3/4 X 90 DEGREE EXHVV EL-MC#475136				

10520 LIQUID PROPANE VAPORIZER & BURNER STAND PIPE ASSEMBLIES



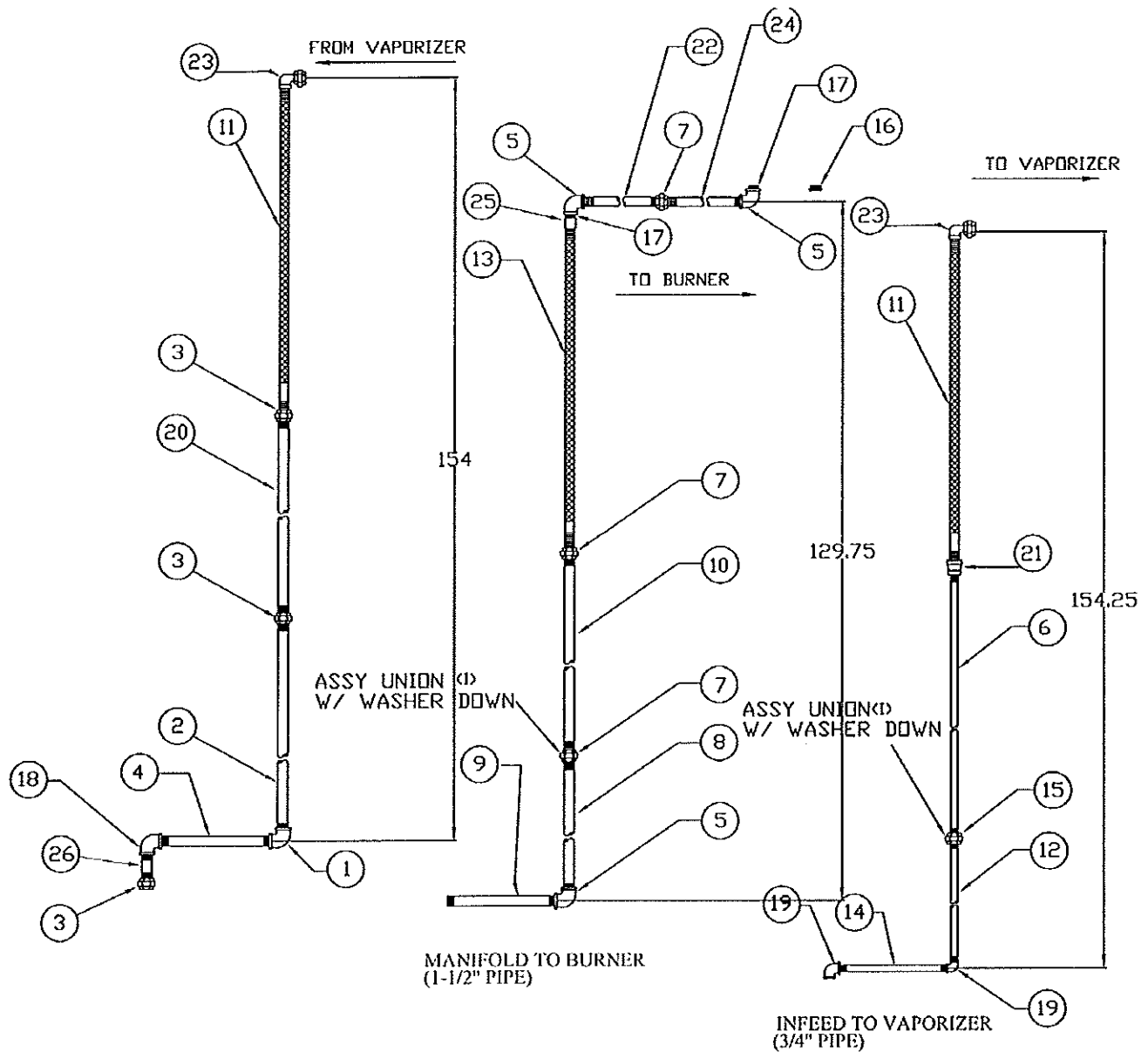
Ref.	Part No	Qty.	Description	Ref.	Part No	Qty.	Description
1	1258026	2	1 X 90 DEG EXHVVY ELBOW	15	476343	1	1 1/2" X 90 DEG EXHVVY UNION ELBOW
2	476330	1	1" X 105" EXHVVY BLK PIPE	16	1287521	1	1-1/2" PIPE PLUG
3	1258031	1	1" EXHVVY UNION	17	1208082	1	1 1/2 X 2 1/2 XHVVY NIPPLE
4	1288090	1	1" X 22" EXHVVY BLK PIPE	18	1218027	2	3/4 X 90 DEGREE EXHVVY EL-MC #475136
5	1258158	2	1 1/2 XHVVY X 90D ELBOW	19	1288084	1	1" - 3/4" XHVVY. RED. COUPLING
6	1288119	1	1" XHVVY COUPLING	20	1252564	1	1 1/2" X 20" EX HVVY NIPPLE
7	1258154	1	1 1/2 XHVVY UNION	21	475128	2	1" X 90 DEG EXHVVY UNION ELBOW
8	476331	1	1 1/2" X 66" EX HVVY NIPPLE	22	1252565	1	1 1/2" X 12" EX HVVY NIPPLE
9	1252562	1	1 1/2" X 24" EX HVVY NIPPLE	23	1258161	1	1" X 3" EX HVVY NIPPLE
10	1258160	1	1-1/2 XHVVY PIPE COUPLING				
11	475706	2	1" X 2' STAINLS BRAIDED FLEXHOSE				
12	476332	1	3/4" X 105" EXHVVY NIPPLE				
13	475849	1	1-1/2" X 3' STAINLESS BRAID FLEXHOSE				
14	1258111	1	3/4" X 26" EXHVVY NIPPLE				

10630 LIQUID PROPANE VAPORIZER & BURNER STAND PIPE ASSEMBLIES



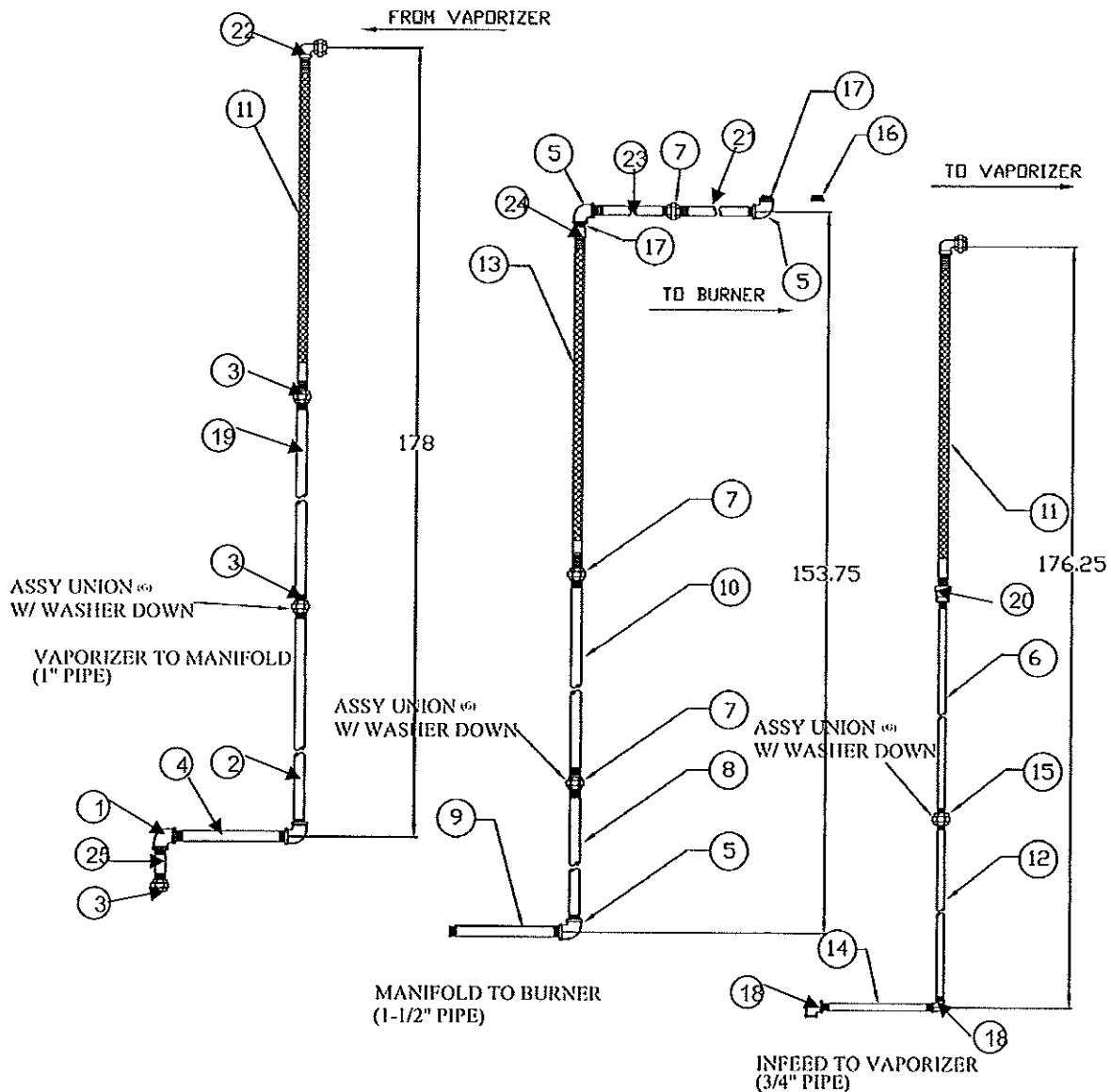
Ref.	Part No	Qty.	Description	Ref.	Part No	Qty.	Description
1	1258026	2	1 X 90 DEG EXHVY ELBOW	15	476343	1	1 1/2" X 90 DEG EXHVY UNION ELBOW
2	1252104	1	1" X 114" EXHVY BLK PIPE	16	1287521	1	1-1/2" PIPE PLUG
3	1258031	1	1" EXHVY UNION	17	1208082	1	1 1/2 X 2 1/2 XHVY NIPPLE
4	1288090	1	1" X 22" EXHVY BLK PIPE	18	1218027	2	3/4 X 90 DEGREE EXHVY EL-MC #475136
5	1258158	2	1 1/2 XHVY X 90D ELBOW	19	1288084	1	1" - 3/4" XHVY. RED. COUPLING
6	1288119	1	1" XHVY COUPLING	20	1252564	1	1 1/2" X 20" EX HVY NIPPLE
7	1258154	1	1 1/2 XHVY UNION	21	475128	2	1" X 90 DEG EXHVY UNION ELBOW
8	1252105	1	1 1/2" X 75" EX HVY NIPPLE	22	1252565	1	1 1/2" X 12" EX HVY NIPPLE
9	1252562	1	1 1/2" X 24" EX HVY NIPPLE	23	1258161	1	1" X 3" EX HVY NIPPLE
10	1258160	1	1-1/2 XHVY PIPE COUPLING				
11	475706	2	1" X 2' STAINLS BRAIDED FLEXHOSE				
12	1252106	1	3/4" X 114" EXHVY NIPPLE				
13	475849	1	1-1/2" X 3' STAINLESS BRAID FLEXHOSE				
14	1258111	1	3/4" X 26" EXHVY NIPPLE				

10730 LIQUID PROPANE VAPORIZER & BURNER STAND PIPE ASSEMBLIES



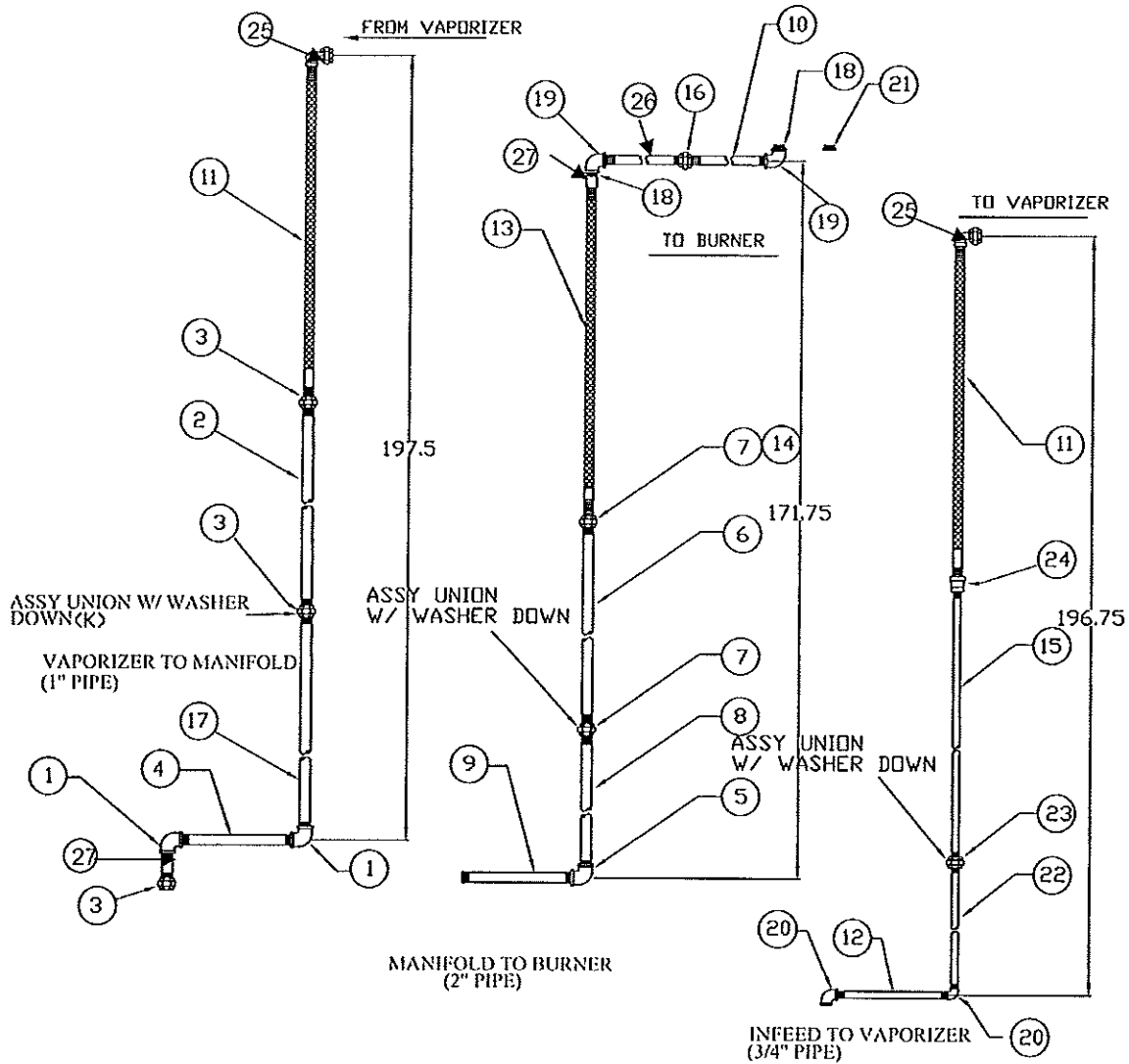
Ref. Part No	Qty.	Description	Ref. Part No	Qty.	Description
1	1	1" X 90° EX HVY ELBOW	15	1	3/4" EX HVY UNION
2	1	1" X 56" EX HVY PIPE	16	1	1 1/2" STD PIPE PLUG
3	3	1" EX HVY UNION	17	2	1 1/2" X 2 1/2" XHVY NIPPLE
4	1	1" X 22" EX HVY PIPE	18	1	1" X 90° XHVY ELBOW
5	3	1 1/2" XHVY X 90° ELBOW	19	2	3/4" X 90° EX HVY ELBOW
6	1	3/4" X 72" EX HVY BLK PIPE	20	1	1" X 67" EX HVY PIPE
7	3	1 1/2" XHVY UNION	21	1	1" TO 3/4" XHVY COUPLING
8	1	1 1/2" X 45" XHVY PIPE	22	1	1 1/2" X 20" XHVY NIPPLE
9	1	1 1/2" X 24" XHVY PIPE	23	2	1" X 90° EX HVY UNION ELBOW
10	1	1 1/2" X 40" XHVY PIPE	24	1	1-1/2" X 12" XHVY NIPPLE
11	2	1" X 24" SS BRAIDED FLEX HOSE	25	1	1-1/2" XHVY COUPLING
12	1	3/4" X 54" EX HVY PIPE	26	1	1" X 3" XHVY NIPPLE
13	1	1 1/2" X 36" SS BRAID FLEXHOSE			
14	1	3/4" X 26" EX HVY NIPPLE			

10840 LIQUID PROPANE VAPORIZER & BURNER STAND PIPE ASSEMBLIES



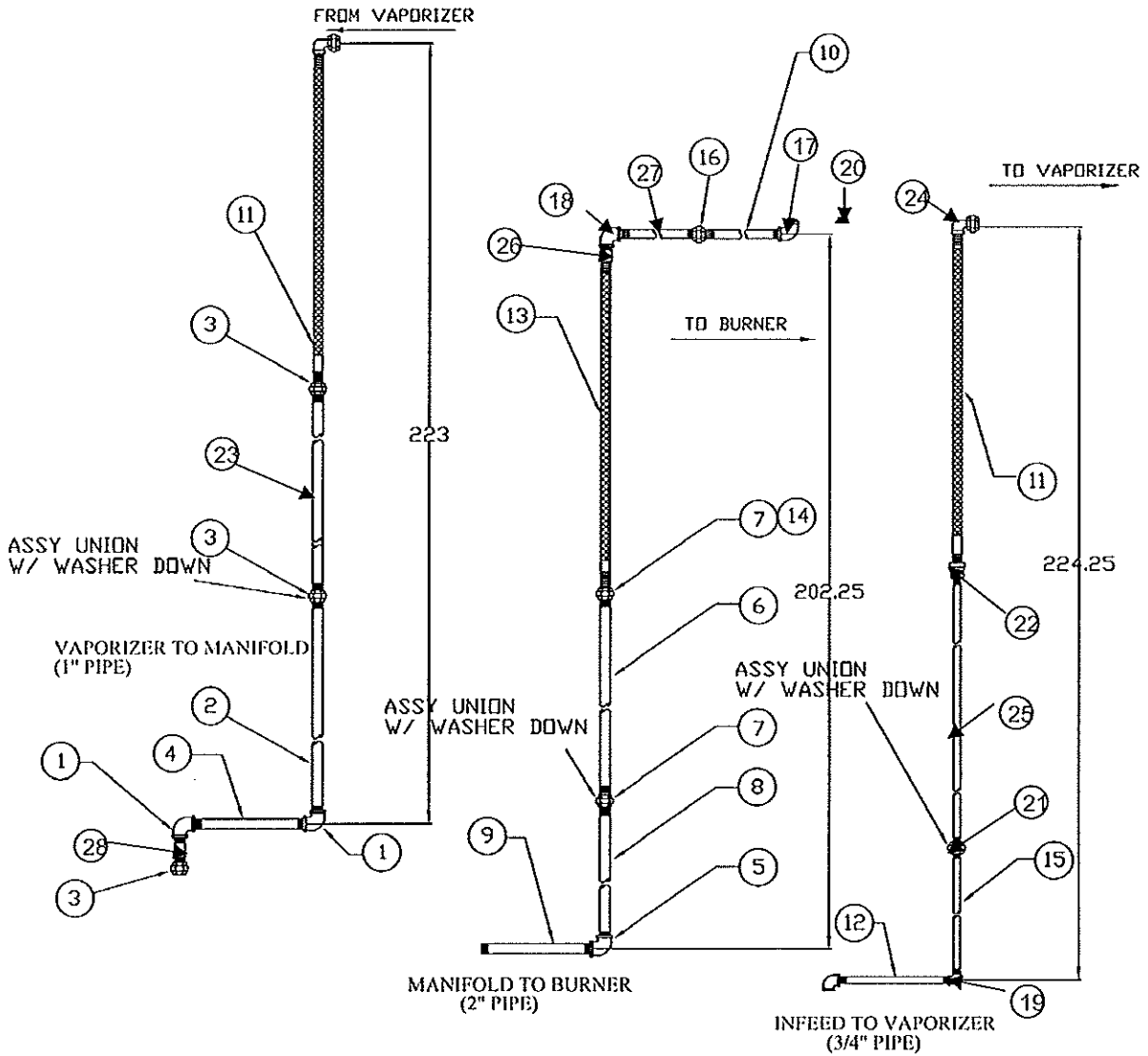
Ref.	Part No	Qty.	Description	Ref.	Part No	Qty.	Description
1	1258026	2	1" X 90° EX HVY ELBOW	15	1218072	1	3/4" EX HVY UNION
2	1252112	1	1" X 76" EX HVY PIPE	16	1287521	1	1 1/2" STD PIPE PLUG
3	1258031	3	1" EX HVY UNION	17	1208082	2	1 1/2" X 2 1/2" XHVY NIPPLE
4	1288090	1	1" X 22" EX HVY PIPE	18	1218027	2	3/4" X 90° EX HVY ELBOW
5	1258158	3	1 1/2" X 90° XHVY ELBOW	19	476191	1	1" X 71" EX HVY PIPE
6	476190	1	3/4" X 74" EX HVY BLK PIPE	20	1288084	1	1" TO 3/4" XHVY COUPLING
7	1258154	3	1 1/2" XHVY UNION	21	1252564	1	1 1/2" X 20" XHVY NIPPLE
8	1252561	1	1 1/2" X 45" XHVY NIPPLE	22	475128	2	1" X 90° EX HVY UNION ELBOW
9	1252562	1	1 1/2" X 24" XHVY PIPE	23	1252565	1	1-1/2" X 12" XHVY NIPPLE
10	1252113	1	1 1/2" X 64" XHVY PIPE	24	1258160	1	1-1/2" XHVY COUPLING
11	475706	2	1" X 24" SS FLEX BRAIDED FLEXHOSE	25	1258161	1	1" X 3" XHVY NIPPLE
12	1218108	1	3/4" X 77" EX HVY PIPE				
13	475849	1	1 1/2" X 36" SS BRAIDED FLEX HOSE				
14	1258111	1	3/4" X 26" EX HVY NIPPLE				

101050 LIQUID PROPANE VAPORIZER & BURNER STAND PIPE ASSEMBLIES



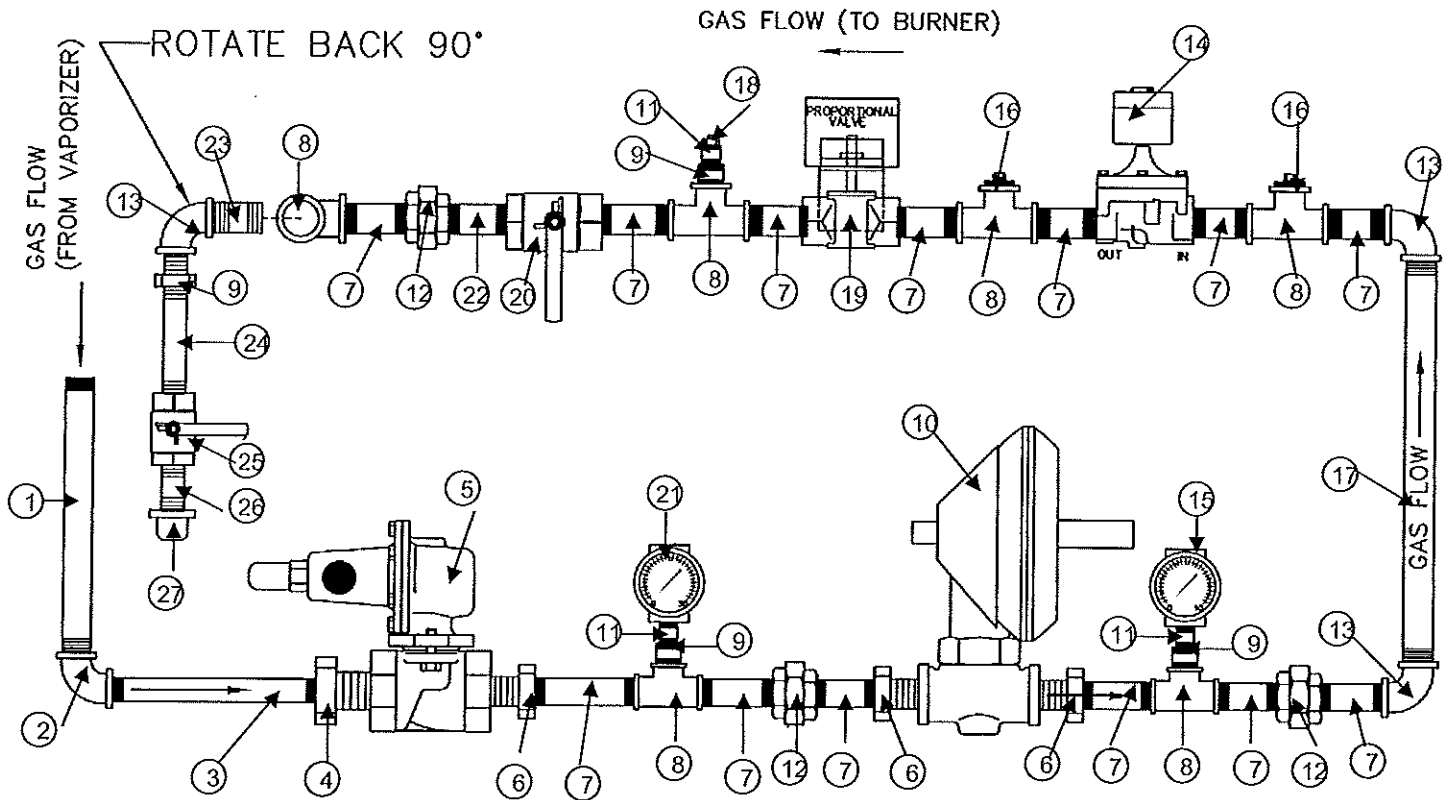
Ref.	Part No	Qty.	Description	Ref.	Part No	Qty.	Description
1	1258026	2	1" 90° XHVY. ELBOW	16	1258154	1	1-1/2" XHVY UNION
2	476189	1	1" X 69" XHVY BLK PIPE	17	1252117	1	1" X 98-1/2" EXHVY BLK PIPE
3	1258031	3	1" XHVY. UNION	18	1208082	2	1 1/2" X 2 1/2" XHVY NIPPLE
4	1288090	1	1" X 22" XHVY BLK PIPE	19	1258158	2	1 1/2" X 90° XHVY ELBOW
5	1258159	1	2" XHVY 90° ELBOW	20	1218027	2	3/4" X 90° XHVY ELBOW
6	1252115	1	2" X 66-1/2" XHVY BLK PIPE	21	1287521	1	1 1/2" STD PIPE PLUG
7	1238076	2	2" XHVY UNION	22	1258110	1	3/4" X 66" EXHVY NIPPLE
8	1252569	1	2" X 60" XHVY BLK PIPE	23	1218072	1	3/4" XHVY UNION
9	1252570	1	2" X 25" XHVY NIPPLE	24	1288084	1	3/4" -1" XHVY REDUCE COUPLING
10	1252564	1	1 1/2" X 20" XHVY NIPPLE	25	475128	2	1" X 90° EX HVY UNION ELBOW
11	475706	2	1" X 2' FLEXHOSE	26	1252565	1	1-1/2" X 12" XHVY NIPPLE
12	1218009	1	3/4" X 24 3/4" XHVY NIPPLE	27	1258160	1	1-1/2" XHVY COUPLING
13	475849	1	1 1/2" X 36" SS BRAIDED FLEXHOSE	28	1258161	1	1" X 3" XHVY NIPPLE
14	1258157	1	1-1/2" - 2" XHVY RED. BUSH.				
15	1252116	1	3/4" X 104-1/2" SCH 80 BLK PIPE				

101275 LIQUID PROPANE VAPORIZER & BURNER STAND PIPE ASSEMBLIES



Ref.	Part No	Qty.	Description	Ref.	Part No	Qty.	Description
1	1258026	2	1" 90° XHVY. ELBOW	18	1258158	2	1 1/2" X 90° XHVY ELBOW
2	1258140	1	1" X 77" XHVY BLK PIPE	19	1218027	2	3/4" X 90° XHVY ELBOW
3	1258031	3	1" XHVY. UNION	20	1287521	1	1 1/2" STD PIPE PLUG
4	1288093	1	1" X 21-1/2" XHVY BLK PIPE	21	1218072	1	3/4" XHVY UNION
5	1258159	1	2" XHVY 90° ELBOW	22	1288084	1	3/4" < EXHVY REDUCE COUPL
6	1252118	1	2" X 97" XHVY BLK PIPE	23	1252119	1	1" X 118" EXHVY BLK PIPE
7	1238076	2	2" XHVY UNION	24	475128	2	1" X 90° EX HVY UNION ELBOW
8	1252569	1	2" X 60" XHVY BLK PIPE	25	1252120	1	3/4" X 120" EXHVY PIPE
9	1252570	1	2" X 25" XHVY BLK PIPE	26	1258160	1	1-1/2" XHVY COUPLING
10	1252564	1	1 1/2" X 20" XHVY BLK PIPE	27	1252565	1	1-1/2" X 12" XHVY NIPPLE
11	475706	2	1" X 2' FLEXHOSE	28	1258161	1	1" X 3" XHVY NIPPLE
12	1218012	1	3/4" X 26.1/4" XHVY NIPPLE				
13	475849	1	1 1/2" X 36" STAINLESS BRAIDED FLEX HOSE				
14	1258157	1	1-1/2" -2" XHVY RED. BUSH.				
15	1218111	1	3/4" X 79" SCH 80 BLK PIPE				
16	1258154	1	1-1/2" XHVY UNION				
17	1208082	2	1 1/2" X 2 1/2" XHVY NIPPLE				

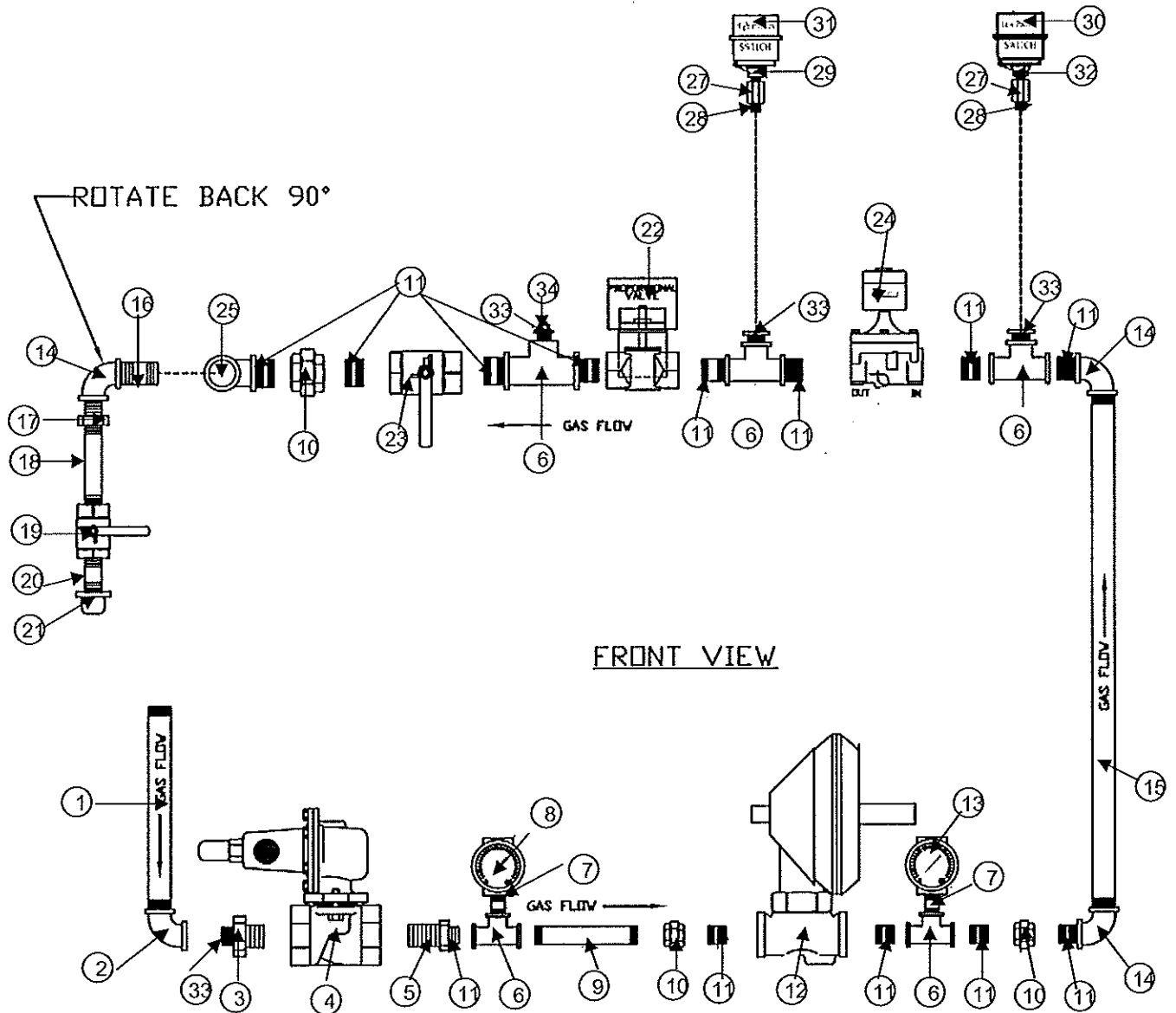
10520 - 10840 LIQUID PROPANE GAS MANIFOLD ASSEMBLY



Ref. Part No	Qty.	Description	Ref. Part No	Qty.	Description
1	1288099	1 1" X 9" SCH80 BLK PIPE	15	1207007	1 0-10 PSI INDICATOR GAUGE
2	1258026	1 1" 90° XHVVY ELBOW	16	1287521	2 1-1/2" STD. PIPE PLUG
3	1258161	1 1" X 3" XHVVY NIPPLE	17	1258102	1 1-1/2" X 13" STD BLK PIPE
4	1238003	1 2" TO 1" RED. BUSHING	18	1258066	1 1/4" STD. PIPE PLUG
5	1287038	1 2" LP GAS TOWER REGULATOR	19	1241676	1 1-1/2" PROPORTIONAL VALVE
6	1258034	3 1-1/2" TO 2" RED. BUSHING		1257060	1 BELIMO PROPORTIONAL ACTUATOR*
7	1258077	13 1-1/2" CLOSE NIPPLE	20	1288086	1 1-1/2" HAND VALVE
8	1258078	6 1-1/2" STD. TEE	21	1207008	1 0-30 PSI INDICATOR GAUGE
9	475559	4 3/4" TO 1-1/2" RED. BUSHING	22	1218127	1 1-1/2" X 4" STD. NIPPLE
10	475823	1 2" SECONDARY REGULATOR	23	1208082	1 1-1/2" X 2-1/2" EX. HVVY NIPPLE
11	1218030	3 1/4" TO 3/4" RED. BUSHING	24	1218083	1 3/4" X 9" EX HVVY NIPPLE
12	1258079	3 1-1/2" STD. UNION	25	1217011	1 3/4" HAND VALVE
13	1258076	3 1-1/2" 90° STD. ELBOW	26	1218008	1 3/4" X 3" EX. HVVY NIPPLE
14	444822	1 1-1/2" SOLENOID VALVE	27	1218034	1 3/4" EX. HVVY PIPE CAP
	1227034	1 VALVE REPAIR KIT			
	4607	1 1 1/2" COIL			

*Not visible

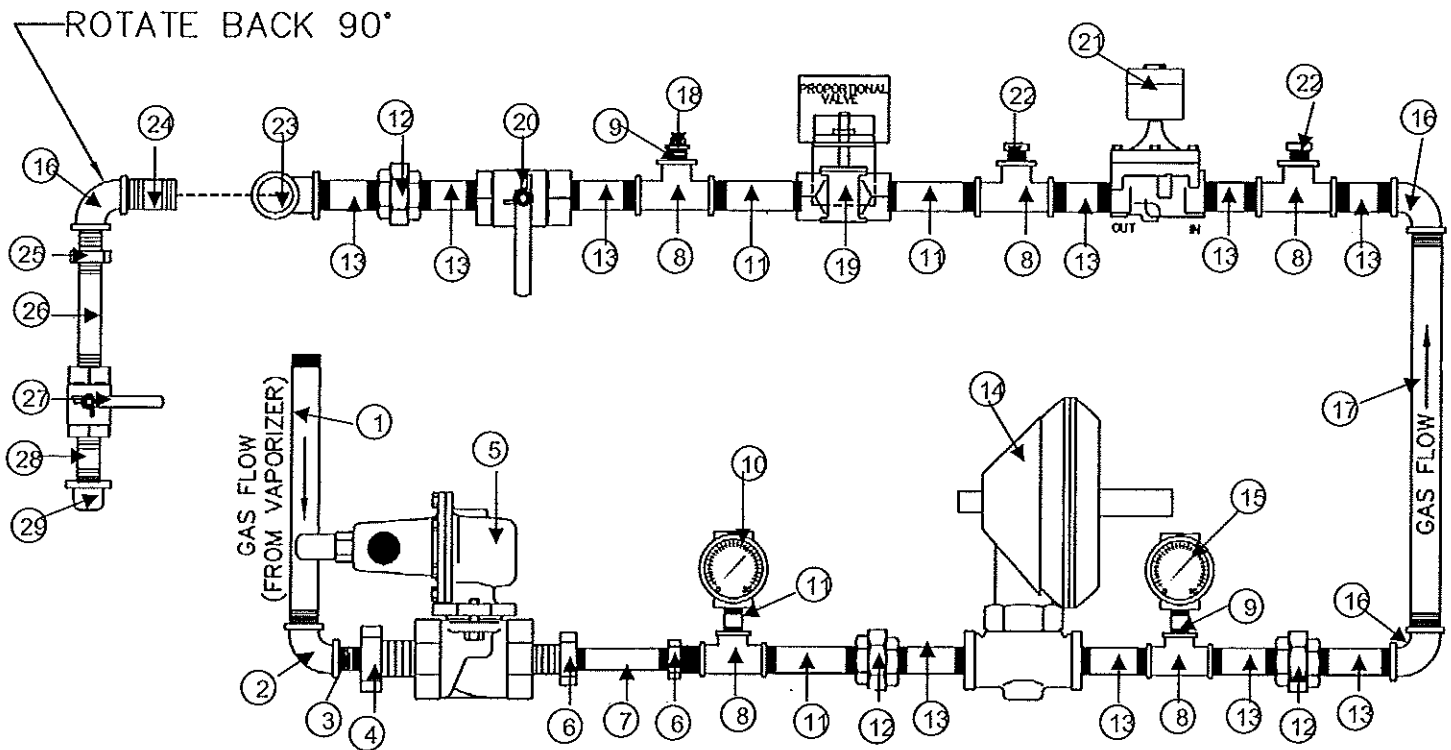
10520 - 10840 LIQUID PROPANE GAS MANIFOLD CGA ASSEMBLY



Ref. Part No	Qty.	Description	Ref. Part No	Qty.	Description
1	1288099	1 1" X 9" SCH80 BLK PIPE	20	1218008	1 3/4" X 3" EX. HVY NIPPLE
2	1258026	2 1" 90° XHVV ELBOW	21	1218034	1 3/4" EX. HVY PIPE CAP
3	1238003	1 2" -1" RED. BUSH.	22	1241676	1 1-1/2" PROP. VALVE ASSY.
4	1287038	1 2" LP GAS TOWER REG.		1257060	1 BELIMO PROPORTIONAL ACTUATOR*
5	1258034	1 2" X 1-1/2" RED. BUSH.	23	1288086	1 1-1/2" HAND VALVE
6	1258152	5 1-1/2" X 1-1/2" X 3/4" TEE	24	444822	1 VALVE SOLENOID 1-1/2" ASCO
7	1218030	2 3/4" - 1/4" STD. RED. BUSH.		1227034	1 VALVE REPAIR KIT
8	1207008	1 0-30 PSI INDICATOR		4607	1 1 1/2" COIL
9	1258151	1 1-1/2" X 5" STD. NIPPLE	25	1258078	1 1-1/2" STD TEE
10	1258079	3 1-1/2" STD. UNION	26	1258030	1 1" XHVV CLOSE NIPPLE
11	1258077	13 1-1/2" X CLOSE STD. NIPPLE	27	1276864	2 CANADIAN SNUBBER
12	475823	1 SECONDARY REGULATOR	28	1218056	2 1/4" CLOSE NIPPLE
13	1207007	1 0 - 10 PSI INDICATOR	29	1246998	1 HIGH PRESSURE TRANSDUCER
14	1258026	3 1" X 90° XHVV ELBOW	30	1246916	1 LOW PRESSURE SW 0-9 PSIG
15	1258102	1 1-1/2" X 13" STD NIPPLE	31	1246997	1 HIGH PRESSURE SW 6-60 PSIG
16	1208082	1 1-1/2" X 2-1/2" EX. HVY NIPPLE	32	1246917	1 LOW PRESSURE TRANSDUCER
17	475559	1 1-1/2" TO 3/4" RED. BUSHING	33	1218030	3 3/4" - 1/4" RED. BUSHING HEX.
18	1218083	1 3/4" X 9" EX. HVY NIPPLE	34	1258066	1 1/4" STD. PIPE PLUG
19	1217011	1 3/4" HAND VALVE			

*Not Visible

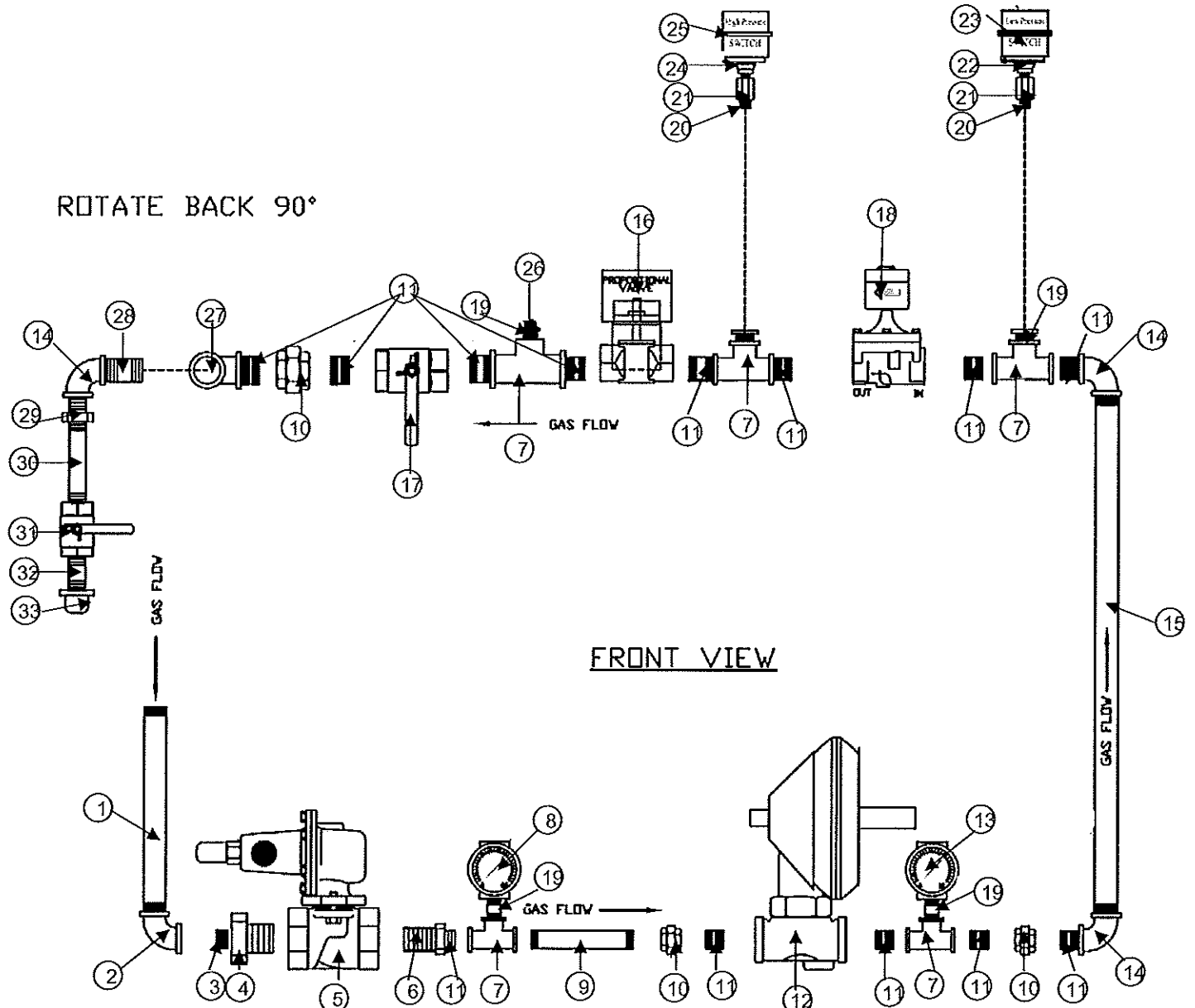
101050 - 101275 LIQUID PROPANE GAS MANIFOLD ASSEMBLY



Ref.	Part No	Qty.	Description
1	1258046	1	1" X 10" SCH80 BLK NIPPLE
2	1258026	1	1" 90° XHVY ELBOW
3	1258030	1	1" XHVY CLOSE NIPPLE
4	1238003	1	2" TO 1" RED. BUSHING
5	1287038	1	2" LP GAS TOWER REGULATOR
6	1258034	2	2" X 1-1/2" RED. BUSHING
7	1208082	1	1-1/2" X 2-1/2" XHVY NIPPLE
8	1208075	5	2" X 2" X 3/4" STD. TEE
9	1218030	3	3/4" TO 1/4" STD. RED. BUSHING
10	1207008	1	0-30 PSI INDICATOR GAUGE
11	1208074	3	2" X 2-1/2" XHVY NIPPLE
12	1258032	3	2" STD. UNION
13	1287523	10	2" CLOSE NIPPLE
14	475823	1	2" SECONDARY REGULATOR
15	1207007	1	0-10 PSI INDICATOR GAUGE
16	1288070	3	2" 90° STD. ELBOW
17	1208073	1	2" X 13" STD BLK NIPPLE
18	1258066	1	1/4 STD. PIPE PLUG
19	1241677	1	2" PROPORTIONAL VALVE ASSY.
	1257060	1	BELIMO PROPORTIONAL ACTUATOR *

Ref.	Part No	Qty.	Description
20	1288079	1	2" HAND VALVE
21	475831	1	2" SOLENOID VALVE
	1227078	1	VALVE REPAIR KIT
	4607	1	1 1/2" COIL
22	1288000	2	3/4" PIPE PLUG
23	1258107	1	2" STD. TEE
24	476329	1	2" X 3" EX. HVY NIPPLE
25	1258162	1	2" TO 3/4" RED. BUSHING
26	1218083	1	3/4" X 9" EX. HVY NIPPLE
27	1217011	1	3/4" HAND VALVE
28	1218008	1	3/4" X 3" EX. HVY NIPPLE
29	1218034	1	3/4" EX. HVY PIPE CAP
			*Not Visible

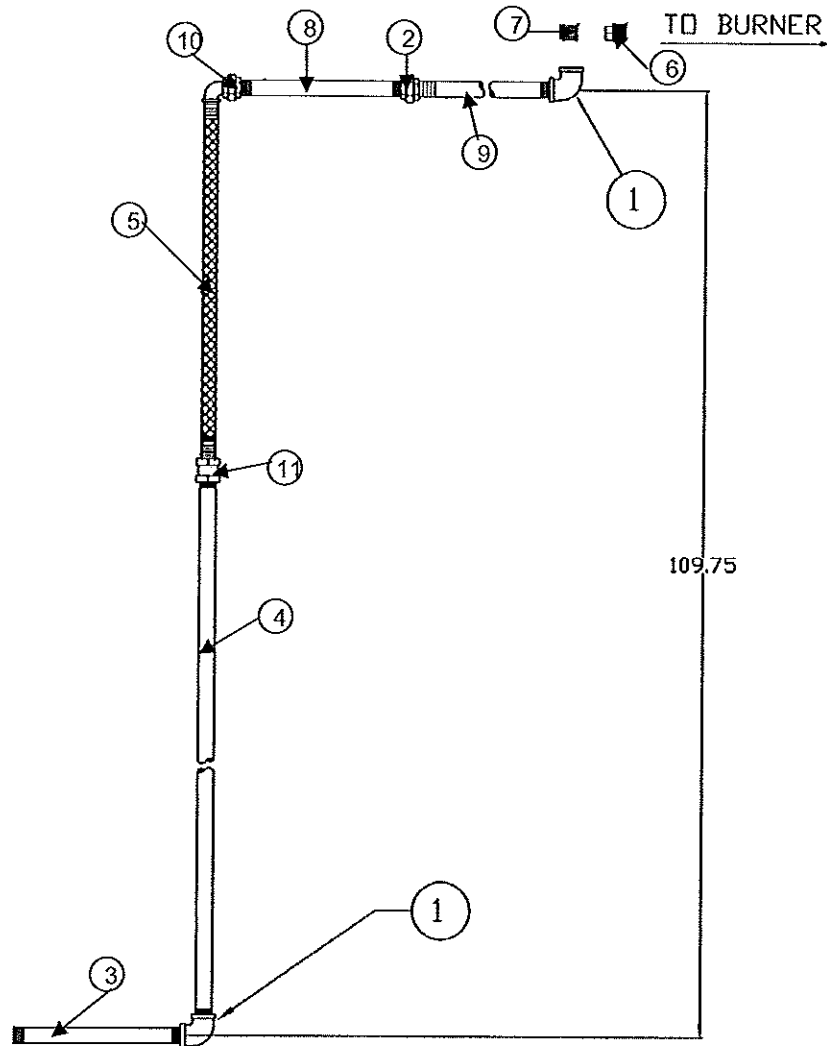
101050 - 101275 LIQUID PROPANE GAS MANIFOLD CGA ASSEMBLY



Ref.	Part No	Qty.	Description	Ref.	Part No	Qty.	Description
1	1288099	1	1" X 9" SCH80 BLK PIPE	18	475831	1	2" SOLENOID VALVE
2	1258026	1	1" 90° XHVY ELBOW	1227078	1	VALVE REPAIR KIT	
3	1258030	1	1" XHVY CLOSE NIPPLE	4607	1	1 1/2" COIL	
4	1238003	1	2" - 1" RED. BUSH.	19	1218030	5	3/4" - 1/4" RED. BUSHING HEX.
5	1287038	1	2" LP GAS TOWER REGULATOR	20	1218056	2	1/4" CLOSE NIPPLE
6	1258034	1	2" X 1-1/2" RED. BUSH.	21	1276864	2	CANADIAN SNUBBER
7	1208075	5	2" X 2" X 3/4" STD. TEE	22	1246917	1	LOW PRESSURE TRANSDUCER
8	1207008	1	0-30 PSI INDICATOR	23	1246916	1	LOW PRESSURE SW 0-9 PSIG
9	1258108	1	2" X 5 1/4" NIPPLE	24	1246998	1	HIGH PRESSURE TRANSDUCER
10	1258032	3	2" STD. UNION	25	1246997	1	HIGH PRESSURE SWITCH 6-60 PSIG
11	1287523	13	2" CLOSE NIPPLE	26	1258066	1	1/4" STD PIPE PLUG
12	475823	1	SECONDARY REGULATOR	27	1258107	1	2" X 2" X 2" STD TEE
13	1207007	1	0-10 PSI INDICATOR	28	476329	1	2" X 3" EX. HVY NIPPLE
14	1288070	3	2" 90° XHVY ELBOW	29	1258162	1	2" TO 3/4" RED. BUSHING
15	1208073	1	2" X 13" STD BLK NIPPLE	30	1218083	1	3/4" X 9" EX. HVY NIPPLE
16	1241676	1	1-1/2" PROP. VALVE ASSY.	31	1217011	1	3/4" HAND VALVE
	1257060	1	BELIMO PROPORTIONAL ACTUATOR*	32	1218008	1	3/4" X 3" EX. HVY NIPPLE
				33	1218034	1	3/4" EX. HVY PIPE CAP

*Not Visible

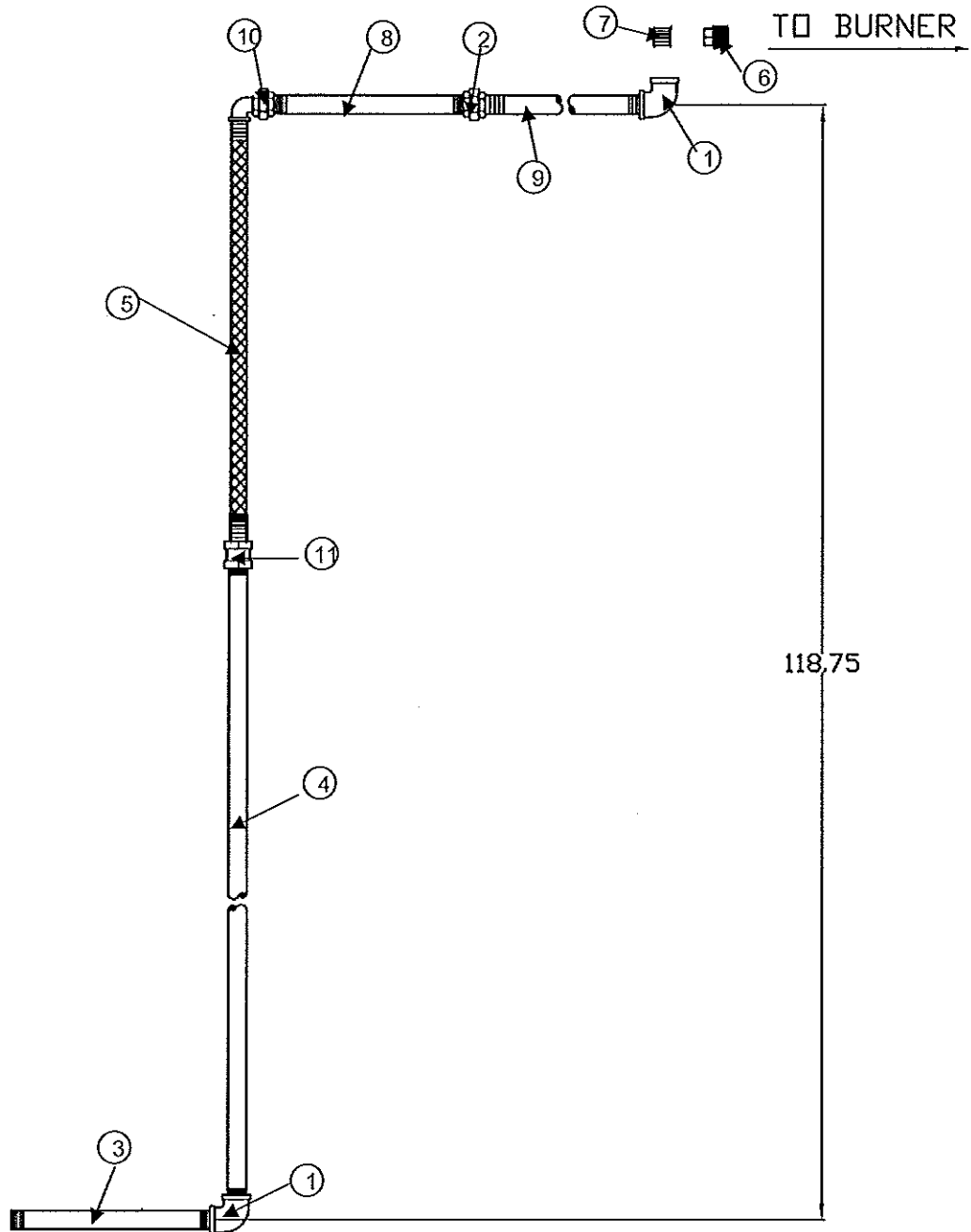
10520 NATURAL GAS VAPORIZER & BURNER STAND PIPE ASSEMBLIES



MANIFOLD TO BURNER

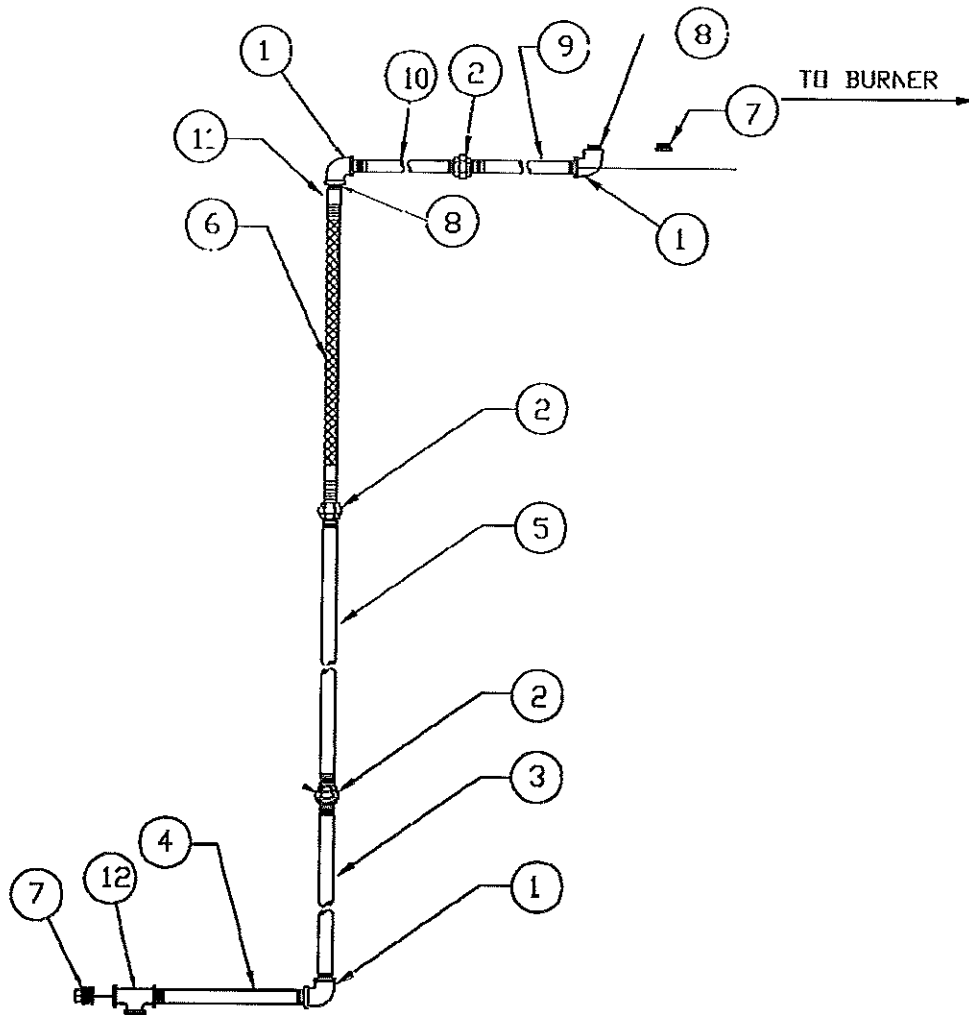
Ref.	Part No	Qty.	Description
1	1258076	2	1 1/2 STD X 90D ELBOW
2	1258079	1	1 1/2 STD UNION
3	1208079	1	1 1/2 X 24 " STD PIPE
4	476344	1	1 1/2" X 70" STD PIPE
5	475849	1	1-1/2" X 3' STAINLESS BRAID FLEX PIPE
6	1287521	1	1 1/2" STD PIPE PLUG
7	1258077	1	1 1/2 X CLOSE NIPPLE
8	1258105	1	1 1/2" X 20" STD NIPPLE
9	476181	1	1 1/2" X 12" STD NIPPLE
10	476343	1	1 1/2" EX HVY 90° UNION ELBOW
11	1258160	1	1 1/2" EX HVY COUPLING

10630 NATURAL GAS VAPORIZER & BURNER STAND PIPE ASSEMBLIES



Ref.	Part No	Qty.	Description
1	1258076	2	1 1/2" x 90° ELBOW
2	1258079	1	1 1/2" STD UNION
3	1208079	1	1 1/2" X 24" STD PIPE
4	1252107	1	1 1/2" X 79" STD PIPE
5	475849	1	1 1/2" X 3' SS FLEX PIPE
6	1287521	1	1 1/2" STD PIPE PLUG
7	1258077	1	1 1/2" CLOSE NIPPLE
8	1258105	1	1 1/2" X 20" STD PIPE
9	476181	1	1 1/2" X 12" STD NIPPLE
10	476343	1	1 1/2" EX HVY 90° UNION ELBOW
11	1258160	1	1 1/2" EX HVY COUPLING

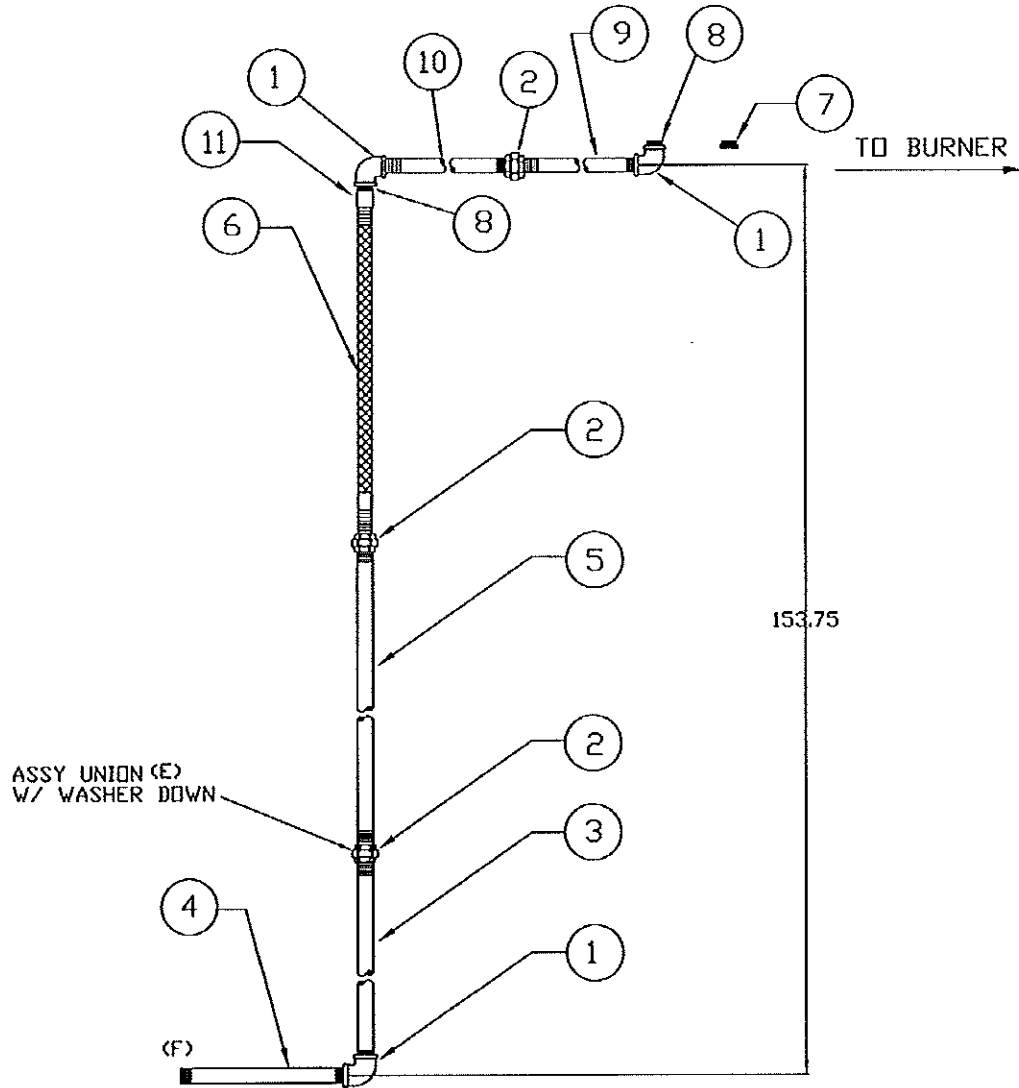
10730 NATURAL GAS VAPORIZER & BURNER STAND PIPE ASSEMBLIES



MANIFOLD TO BURNER

Ref.	Part No	Qty.	Description
1	1258076	3	1 1/2" X 90° ELBOW
2	1258079	3	1 1/2 STD UNION
3	1258090	1	1 1/2" X 45" STD NIPPLE
4	1208079	1	1 1/2" X 24" STD NIPPLE
5	1252111	1	1 1/2" X 44" STD NIPPLE
6	475849	1	1 1/2" X 36" SS FLEX HOSE
7	1287521	1	1 1/2" STD PIPE PLUG
8	1258077	2	1 1/2" CLOSE NIPPLE
9	1258138	1	1 1/2" X 19" STD PIPE
10	476181	1	1 1/2" X 12" STD NIPPLE
11	096024	1	1-1/2" COUPLING

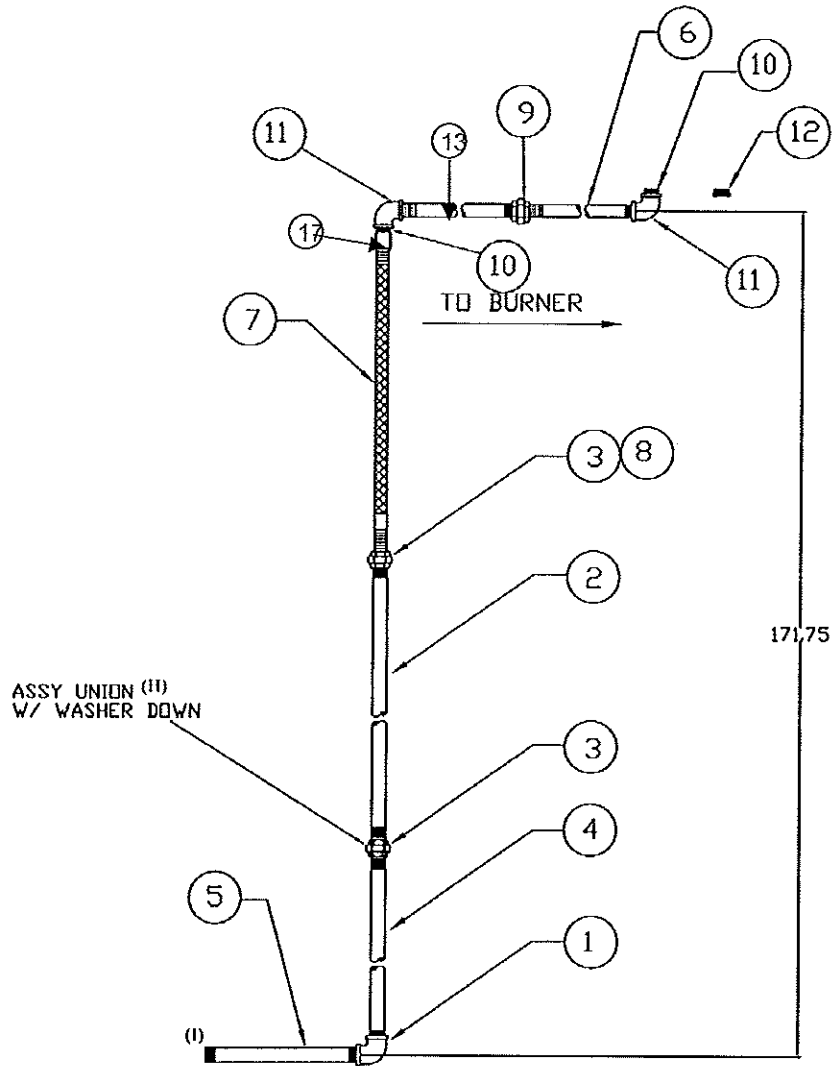
10840 NATURAL GAS VAPORIZER & BURNER STAND PIPE ASSEMBLIES



MANIFOLD TO BURNER

Ref.	Part No	Qty.	Description
1	1258076	3	1 1/2" x 90° ELBOW
2	1258079	3	1 1/2" STD UNION
3	1258090	1	1 1/2" X 45" STD PIPE
4	1208079	1	1 1/2" X 24" STD PIPE
5	1252121	1	1 1/2" X 64" STD PIPE
6	475849	1	1 1/2" X 36" SS FLEX PIPE
7	1287521	1	1 1/2" STD PIPE PLUG
8	1258077	2	1 1/2" CLOSE NIPPLE
9	1258138	1	1 1/2" X 19" STD PIPE
10	476181	1	1 1/2" X 12" STD NIPPLE
11	096024	1	1-1/2" COUPLING

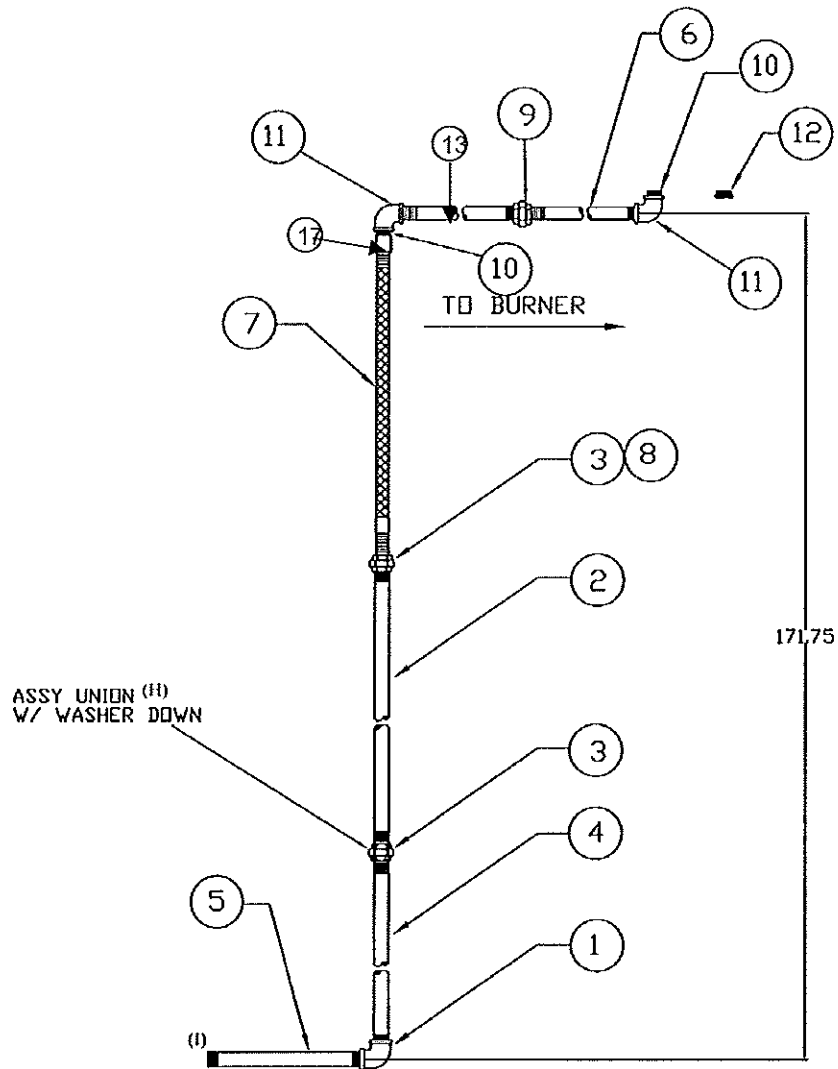
101050 NATURAL GAS VAPORIZER & BURNER STAND PIPE ASSEMBLIES



MANIFOLD TO BURNER

Ref.	Part No	Qty.	Description
1	1288070	1	2" STD. 90 °ELBOW
2	1252122	1	TC 2" X 66-1/2" STD BLK NIPPLE
3	1258032	2	2" STD. UNION
4	1258104	1	2" X 60" STD BLK PIPE
5	1258145	1	2" X 25" STD BLK PIPE
6	1258105	1	1 1/2" X 20" STD BLK PIPE
7	475849	1	1 1/2" X 36" SS FLEX PIPE
8	1258034	1	1-1/2" - 2" STD. RED. BUSH.
9	1258079	1	1-1/2" STD. UNION
10	1258077	2	1 1/2" CLOSE NIPPLE
11	1258076	2	1 1/2" X 90° ELBOW
12	1287521	1	1 1/2" STD PIPE PLUG
13	476181	1	1-1/2" X 12" STD NIPPLE
14	096024	1	1-1/2" COUPLING

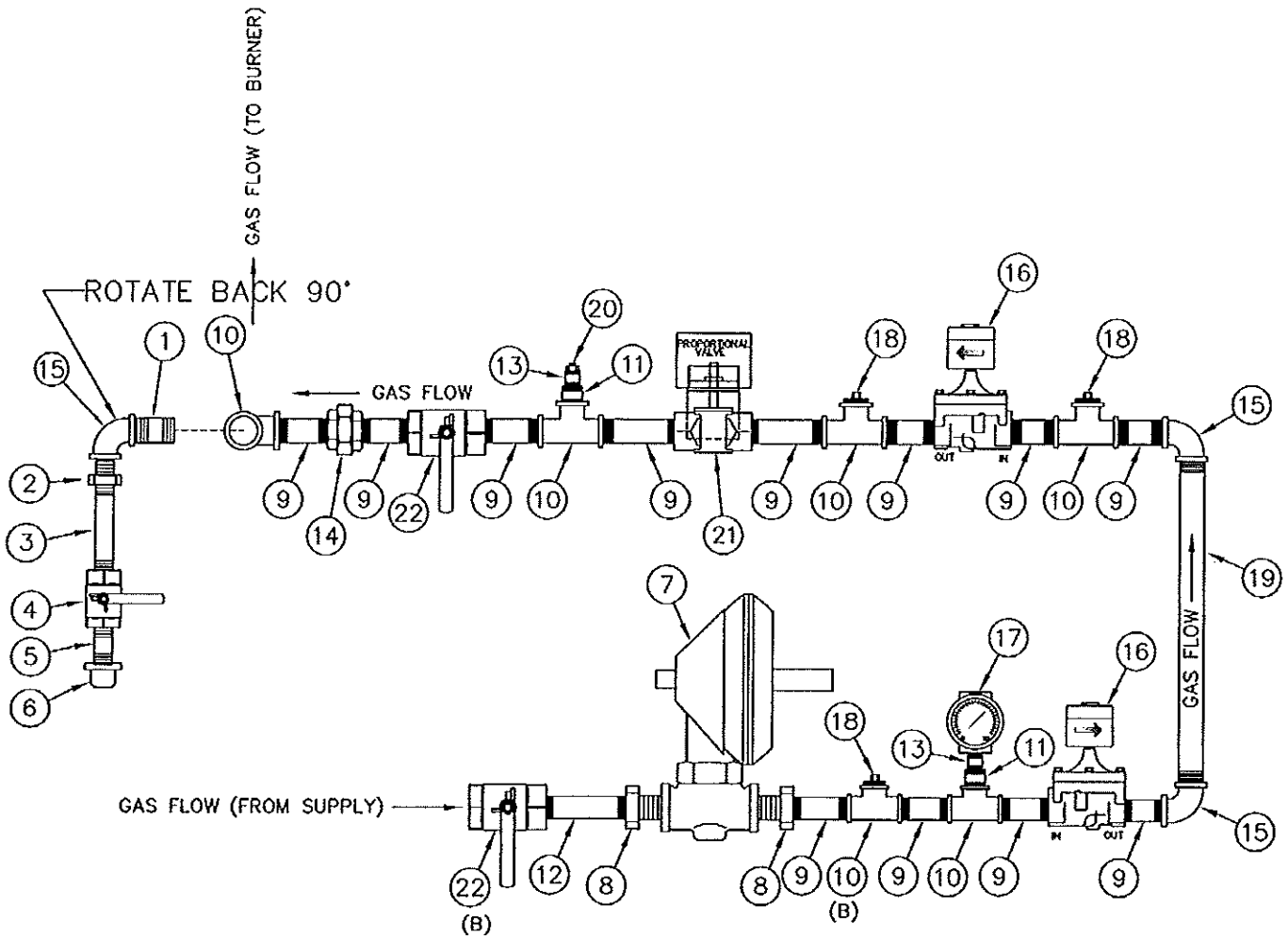
101275 NATURAL GAS VAPORIZER & BURNER STAND PIPE ASSEMBLIES



MANIFOLD TO BURNER

Ref.	Part No	Qty.	Description
1	1288070	1	2" STD. 90 °ELBOW
2	1252123	1	TC 2" X 97" STD BLK PIPE
3	1258032	2	2" STD. UNION
4	1258104	1	2" X 60" STD BLK PIPE
5	1258145	1	2" X 25" STD BLK PIPE
6	1258105	1	1 1/2" X 20" STD BLK PIPE
7	475849	1	1 1/2" X 36" SS FLEX PIPE
8	1258034	1	1-1/2" - 2" STD. RED. BUSH.
9	1258079	1	1-1/2" STD. UNION
10	1258077	2	1 1/2" CLOSE NIPPLE
11	1258076	2	1 1/2" X 90° ELBOW
12	1287521	1	1 1/2" STD PIPE PLUG
13	476181	1	1-1/2" X 12" STD NIPPLE
14	096024	1	1-1/2" COUPLING

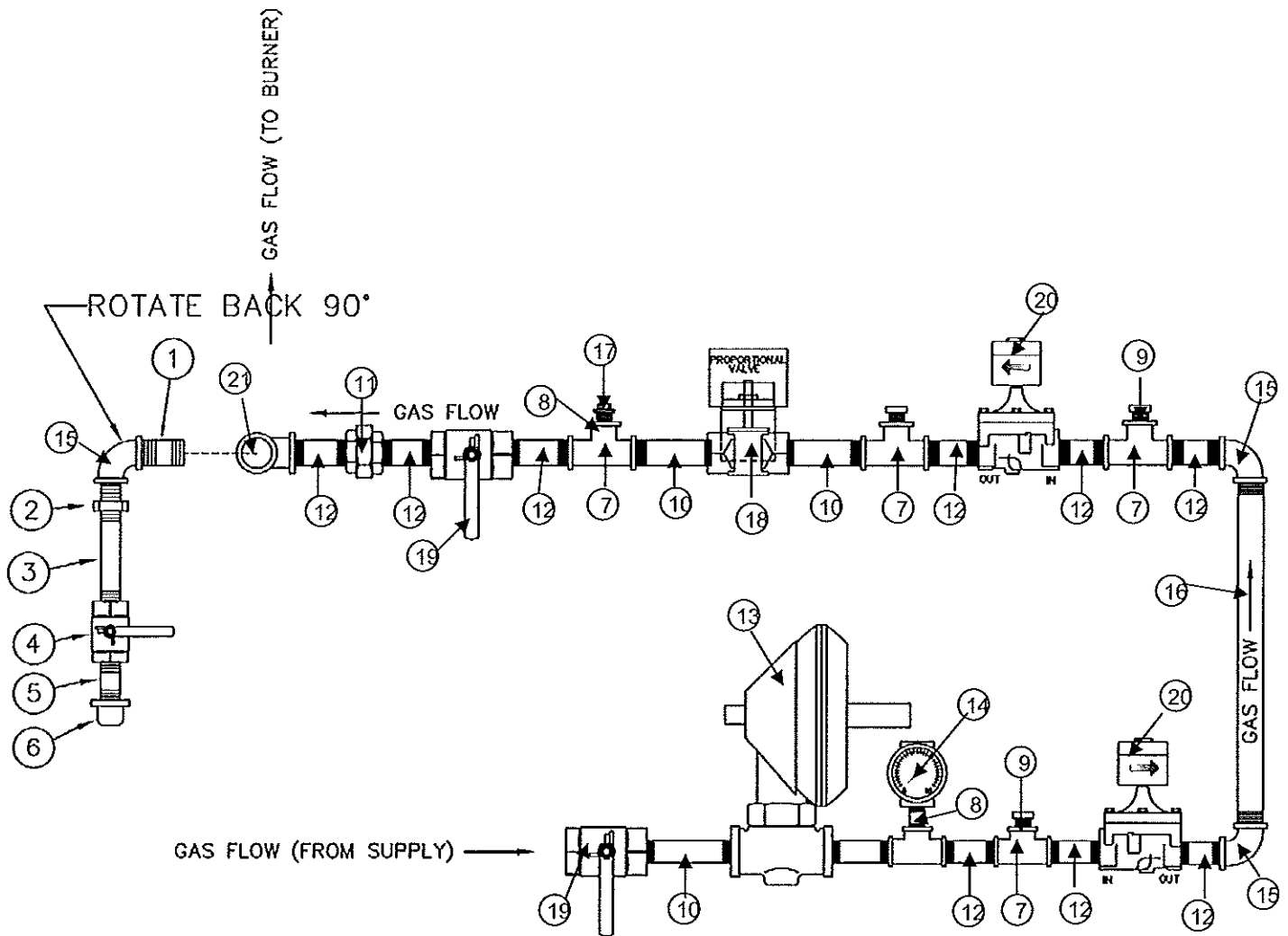
10520—10840 NATURAL GAS MANIFOLD ASSEMBLY



REGULATOR ROTATED FORWARD
PARALLEL WITH LINE

Ref.	Part No	Qty.	Description	Ref.	Part No	Qty.	Description
1	1208082	1	1-1/2" X 2-1/2" EX. HVY NIPPLE	15	1258076	3	1-1/2" 90° STD. ELBOW
2	475559	1	1-1/2" TO 3/4" RED. BUSHING	16	444822	2	1-1/2" SOLENOID VALVE
3	1218083	1	3/4" X 9" EX. HVY NIPPLE		1227034	1	VALVE REPAIR KIT
4	1258077	1	1 1/2" CLOSE STD. NIPPLE		4607	1	1 1/2" COIL
5	1218008	1	3/4" X 3" EX. HVY NIPPLE	17	1207007	1	0-10 PSI INDICATOR GAUGE
6	1218034	1	3/4" EX. HVY PIPE CAP	18	1287521	3	1-1/2" STD. PIPE PLUG
7	475823	1	2" SECONDARY REGULATOR	19	1258102	1	1-1/2" X 13" STD BLK NIPPLE
8	1258034	2	1-1/2" TO 2" RED. BUSHING	20	1258066	1	1/4" STD. PIPE PLUG
9	1258077	12	1-1/2" CLOSE NIPPLE	21	1241676	1	1-1/2" PROPORTIONAL VALVE
10	1258078	5	1-1/2" STD. TEE		1257060	1	BELIMO PROPORTIONAL ACTUATOR*
11	475559	2	3/4" TO 1-1/2" RED. BUSHING	22	1288086	2	1-1/2" HAND VALVE
12	1208082	1	1-1/2" X 2 1/2" XHVVY NIPPLE				* Not Visible
13	1218030	2	1/4" TO 3/4" RED. BUSHING				
14	1258079	1	1-1/2" STD. UNION				

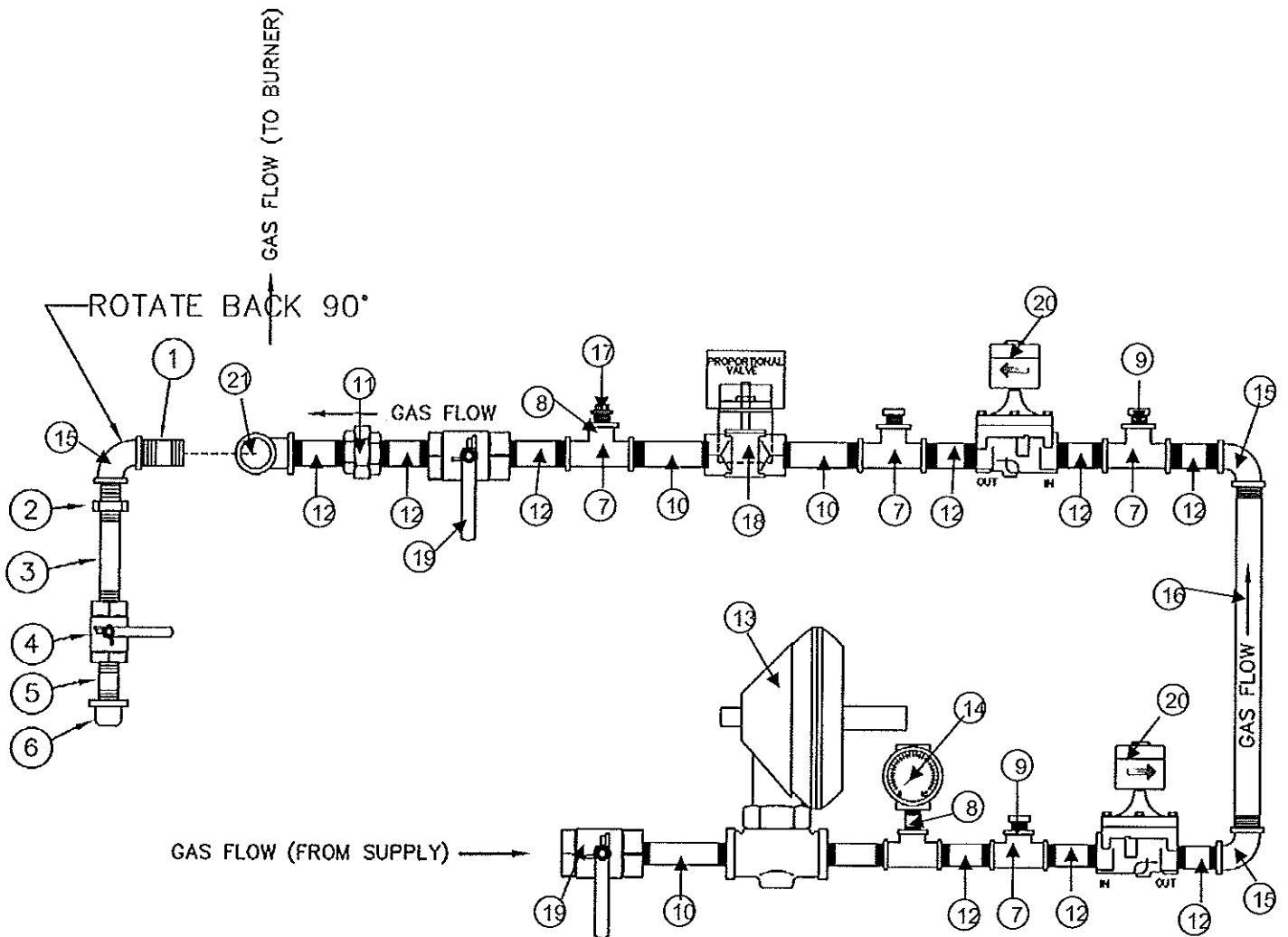
10520—10840 NATURAL GAS MANIFOLD CGA ASSEMBLY



REGULATOR ROTATED FORWARD
PARALLEL WITH LINE

Ref.	Part No	Qty.	Description	Ref.	Part No	Qty.	Description
1	476329	1	2" X 3" EX. HVY NIPPLE	14	1207007	1	0-10 PSI INDICATOR GAUGE
2	1258162	1	2" TO 3/4" RED. BUSHING	15	1288070	3	2" 90° STD ELBOW
3	1218083	1	3/4" X 9" EX. HVY NIPPLE	16	1208073	1	2" X 13" SCH40 BLK NIPPLE
4	1217011	1	3/4" HAND VALVE	17	1258066	1	1/4" STD. PIPE PLUG
5	1218008	1	3/4" X 3" EX. HVY NIPPLE	18	1241677	1	2" PROPORTIONAL VALVE
6	1218034	1	3/4" EX. HVY PIPE CAP		1257060	1	BELIMO PROPORTIONAL ACTUATOR
7	1208075	5	2" X 2" X 3/4" STD. TEE	19	1288079	2	2" HAND VALVE
8	1218030	2	3/4" TO 1/4" STD RED. BUSHING	20	475831	2	2" SOLENOID VALVE
9	1288000	3	3/4" PIPE PLUG		1227078	1	VALVE REPAIR KIT
10	1208074	3	2" X 2-1/2" STD. NIPPLE		4607	1	1 1/2" COIL
11	1258032	1	2" STD. UNION	21	1258107	1	2" X 2" X 2" STD. TEE
12	1287523	10	2" CLOSE NIPPLE				
13	475823	1	2" SECONDARY REGULATOR				

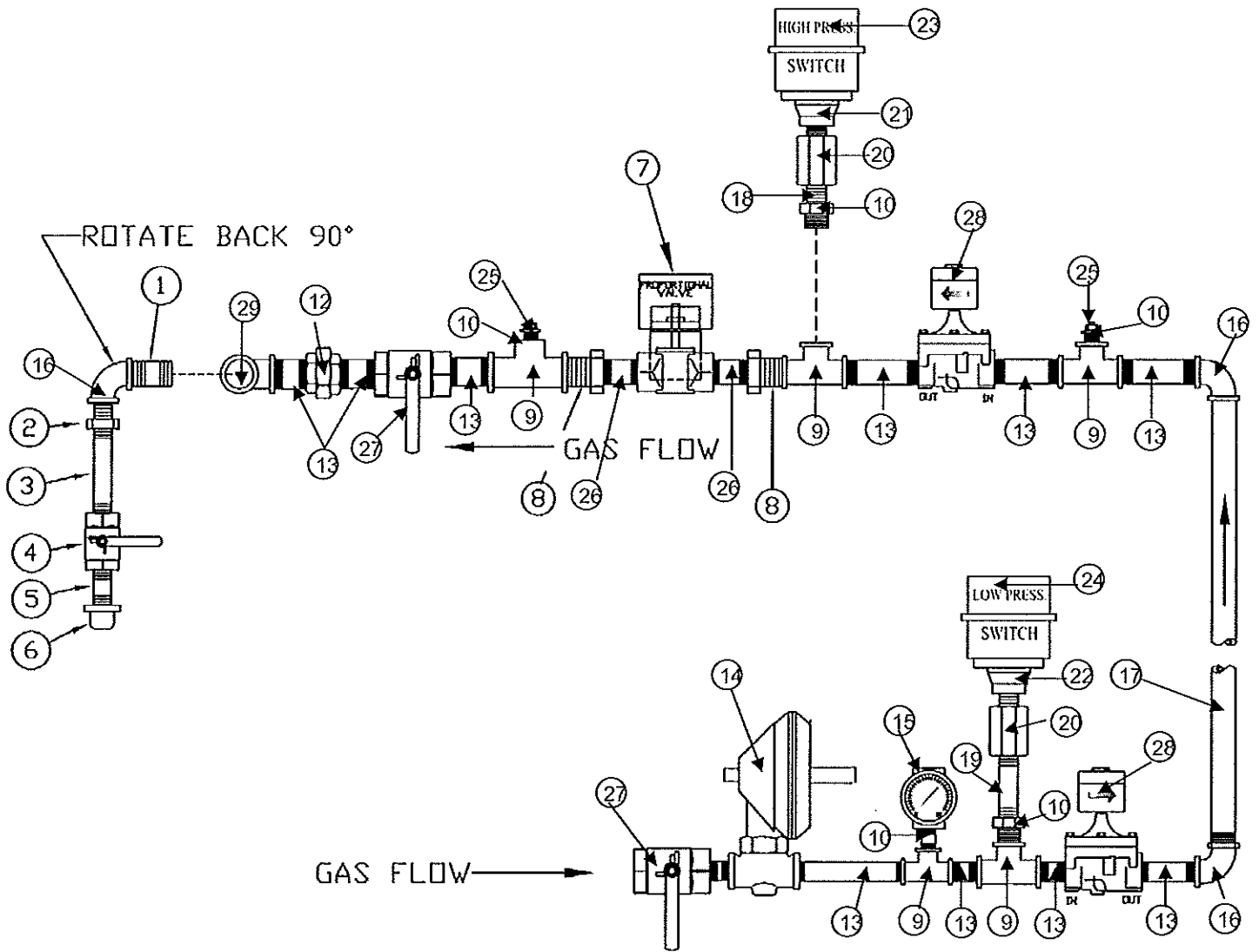
101050 & 101275 NATURAL GAS MANIFOLD ASSEMBLY



REGULATOR ROTATED FORWARD PARALLEL WITH LINE

Ref.	Part No	Qty.	Description	Ref.	Part No	Qty.	Description
1	476329	1	2" X 3" EX. HVY NIPPLE	12	1287523	10	2" CLOSE NIPPLE
2	1258162	1	2" TO 3/4" RED. BUSHING	13	475823	1	2" SECONDARY REGULATOR
3	1218083	1	3/4" X 9" EX. HVY NIPPLE	14	1207007	1	0-10 PSI INDICATOR GAUGE
4	1217011	1	3/4" HAND VALVE	15	1288070	3	2" 90° STD ELBOW
5	1218008	1	3/4" X 3" EX. HVY NIPPLE	16	1208073	1	2" X 13" SCH40 BLK NIPPLE
6	1218034	1	3/4" EX. HVY PIPE CAP	17	1258066	1	1/4" STD. PIPE PLUG
7	1208075	5	2" X 2" X 3/4" STD. TEE	18	1241677	1	2" PROPORTIONAL VALVE
8	1218030	2	3/4" TO 1/4" STD RED. BUSHING		1257060	1	BELIMO PROPORTIONAL ACTUATOR
9	1288000	3	3/4" PIPE PLUG	19	1288079	2	2" HAND VALVE
10	1208074	3	2" X 2-1/2" STD. NIPPLE	20	475831	2	2" SOLENOID VALVE
11	1258032	1	2" STD. UNION		1227078	1	VALVE REPAIR KIT
					4607	1	1 1/2" COIL
				21	1258107	1	2" X 2" X 2" STD. TEE

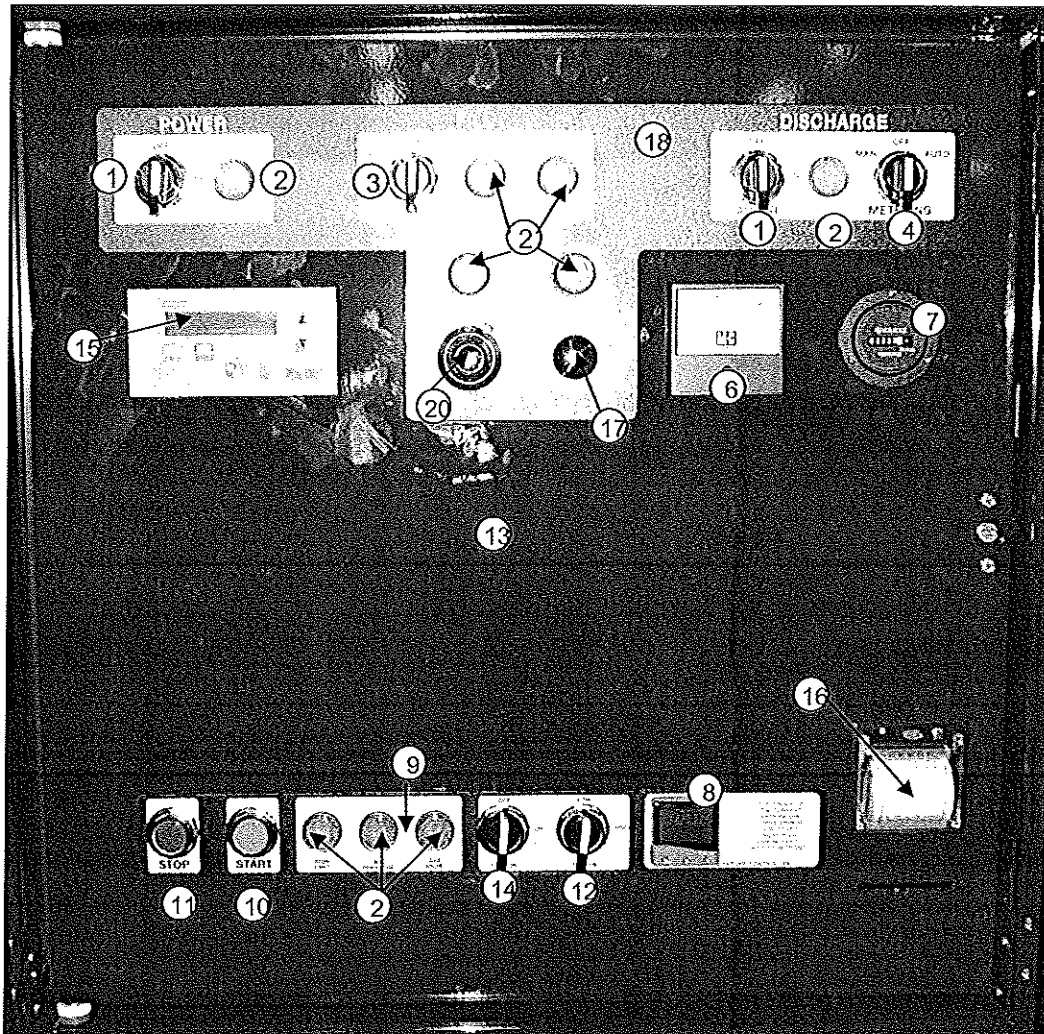
101050—101275 NATURAL GAS MANIFOLD CGA ASSEMBLY



REGULATORS ROTATED FORWARD PARALLEL WITH LINE

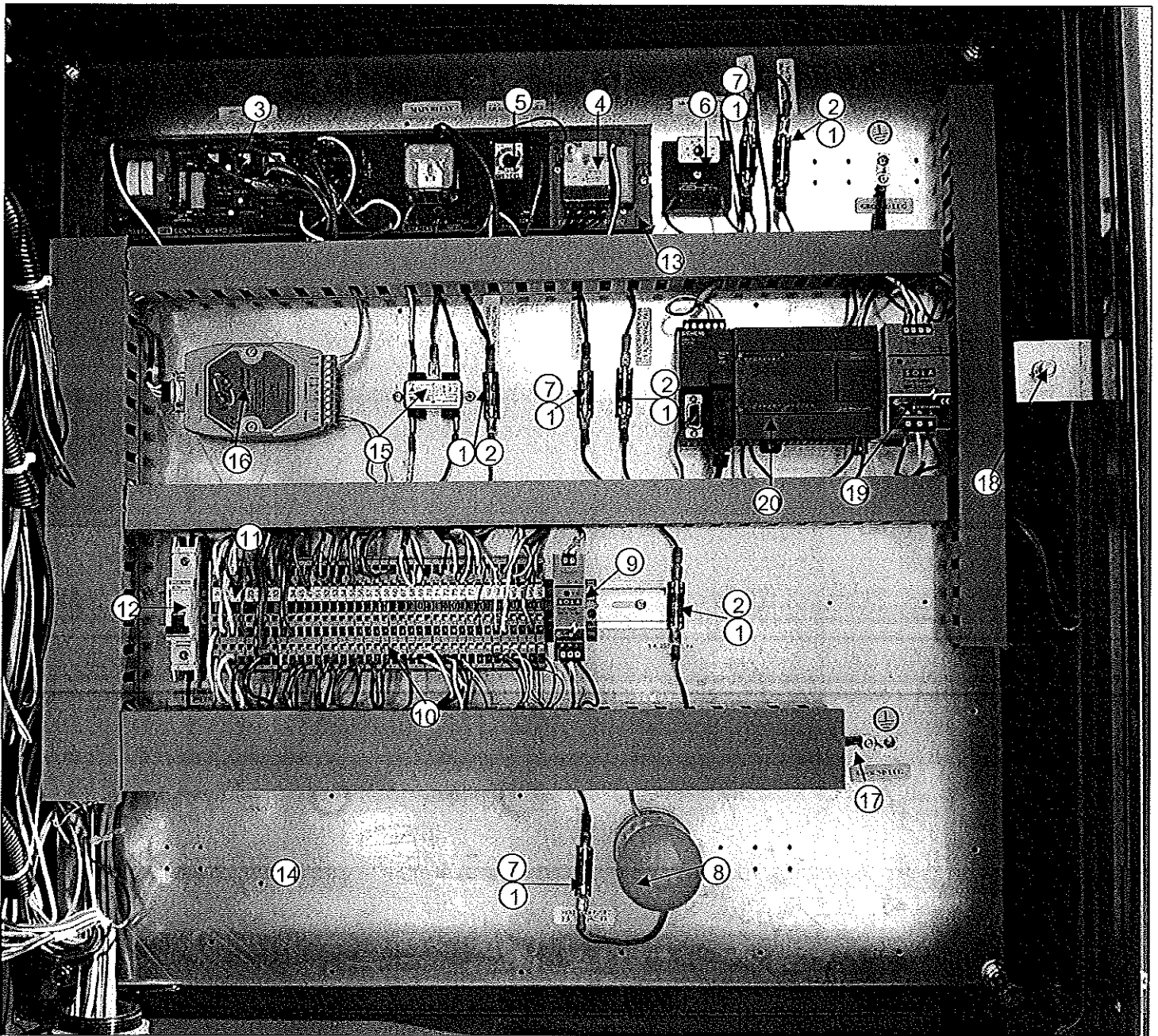
Ref.	Part No	Qty.	Description	Ref.	Part No	Qty.	Description
1	476329	1	2" X 3" EX. HVY NIPPLE	16	1288070	3	2" 90° XHVVY ELBOW
2	1258162	1	2" TO 3/4" RED. BUSHING	17	1208073	1	2" X 13" SCH80 BLK PIPE
3	1218083	1	3/4" X 9" EX. HVY NIPPLE	18	1218056	1	1/4" CLOSE NIPPLE
4	1217011	1	3/4" HAND VALVE	19	1208021	1	1/4" X 3" NIPPLE
5	1218008	1	3/4" X 3" EX. HVY NIPPLE	20	1276864	2	CANADIAN SNUBBER
6	1218034	1	3/4" EX. HVY PIPE CAP	21	1246998	1	HIGH PRESS. TRANS 6-60 PSI
7	1241676	1	1-1/2" PROP VALVE ASSY	22	1246917	1	PRESSURE TRANSDUCER
	1257060	1	BELIMO PROPORTIONAL ACTUATOR	23	1246997	1	HIGH PRESSURE SWITCH
8	1258034	2	2" X 1-1/2" RED. BUSH.	24	1246916	1	SWITCH UNIT 0-9 PSI
9	1208075	5	2" X 2" X 3/4" STD. TEE	25	1258066	2	1/4" STD. PIPE PLUG
10	1218030	5	3/4" - 1/4" RED. BUSH. HEX	26	1258077	2	1-1/2" CLOSE NIPPLE
11	1278079	1	2" XHVVY CLOSE NIPPLE	27	1288079	3	2" HAND VALVE
12	1258032	1	2" STD. UNION	28	475831	2	2" SOLENOID VALVE
13	1287523	10	2" CLOSE NIPPLE		1227078	1	VALVE REPAIR KIT
14	475823	1	SECONDARY REGULATOR		4607	1	1 1/2" COIL
15	1207007	1	0-10 PSI INDICATOR	29	1258107	1	2" X 2" X 2" STD TDD

REMOTE CABINET BUTTONS, DIALS, LIGHTS, METERS & SWITCHES



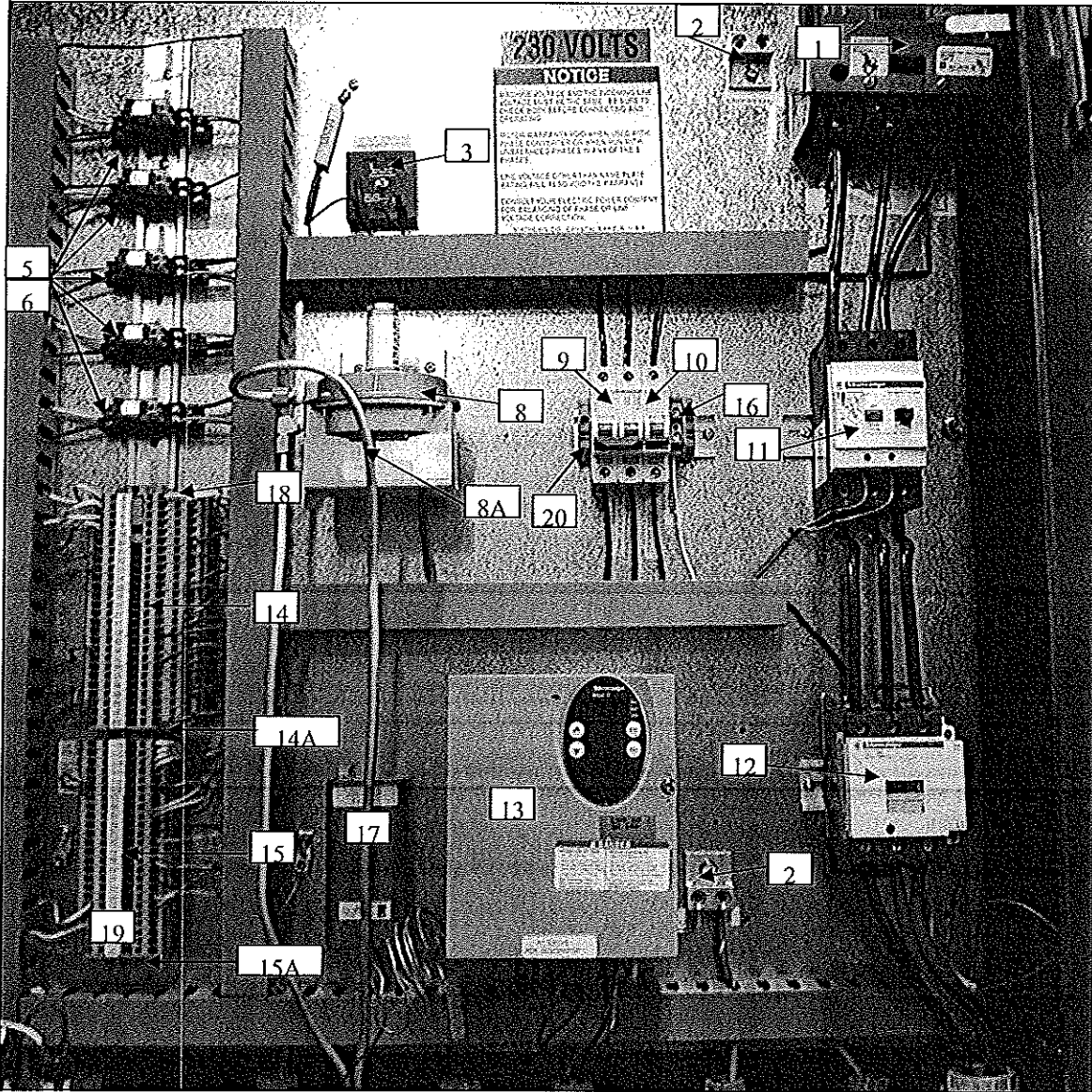
Ref.	Part No.	Qty.	Description
1	125 6809	2	POWER ON-OFF/DISCHARGE SWITCH
2	125 6808	9	L.E.D. LIGHT
3	125 6810	1	LEVEL AUGER SWITCH
4	125 6811	1	MANUAL-AUTO SWITCH
5	122 7068	1	DIGITAL DISPLAY METER*
6	125 6862	1	DC DISCHARGE METER 0-10 DC VLTS
7	444645	1	METER—HOUR 115VAC 60HZ
8	1257038	1	CAL CONTROLLER 0-10VDC
9	1248341	1	TOWER FAN CONTROL BEZEL 2008
10	1286844	1	START BUTTON—GREEN
11	1286845	1	STOP BUTTON—RED
12	1256812	1	BURNER ON & HIGH/LOW SWITCH
13	1244891	1	30X30 DOOR 1-FAN CAL CONTROL
14	1256813	1	BURNER SWITCH 2 POS NO/NC
15	1237010	1	HMI SIEMENS TD200 TEXT ONLY
16	1247021	1	PRINTER PANEL MOUNT PLUS-S2B-0004
17	1246941	1	KNOB (MOISTURE MATIC)
18	1248349	1	POWER CONTROL BEZEL REMOTE
19	1241266	1	SCR DRIVER 10-T POT W/WIRE 50" (BEHIND PANEL)
20	1246892	1	MULTIDIAL
21	1246955	1	POT. 1TURN-1K 60" LEAD (BEHIND PANEL)

REMOTE CABINET WIRING



Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	1256836	7	IN-LINE FUSE HOLDER 45-DEG TAB	13	1247045	1	RELAY TIMER BOARD
2	1256837	4	FUSE 1 AMP	14	1244909	1	COMPONENT MOUNTING PANEL 27X27
3	1256892	1	M-C CONTROL BOARD 0-10	15	1247029	1	INLINE FILTER
4	0216809	1	MAIN RELAY, 3PDT 120V	16	1237063	1	COMMUNICATION CONVERTER
5	1246978	1	TIMER ADJ 0-60MIN 120V DPDT	17	1256975	2	GROUND LUG
6	1246996	1	2-180SEC ADJ LEVEL TIMER	18	1237051	1	DOOR SWITCH
7	1256861	3	FUSE 2 AMP	19	1247023	1	12V DC POWER SUPPLY
8	1246842	1	50W RS LIGHT BULB	20	1236989	1	PLC SIEMENS S7200 224XP CPU
8	1246841	1	PORCELAIN LIGHT HOLDER	21	1247025	1	PLC/PRINTER CABLE (Not Shown)
9	445964	1	POWER SUPPLY-24 VOLT DC 7.5W	22	1247024	1	PRINTER CABLE (Not Shown)
10	1257010	36	TERMINAL BLOCK, SPRING 3 WIRE	23	1256975	1	GROUNDING LUG 6-14 AL9CU (Not Shown)
11	1257007	5	TERMINAL CENTER JUMPER 6MM	24	1237051	1	SWITCH SPDT 15AMP PUSH (Not Shown)
12	1257002	1	MINI CIRCUIT BREAKER 7AMP UL				

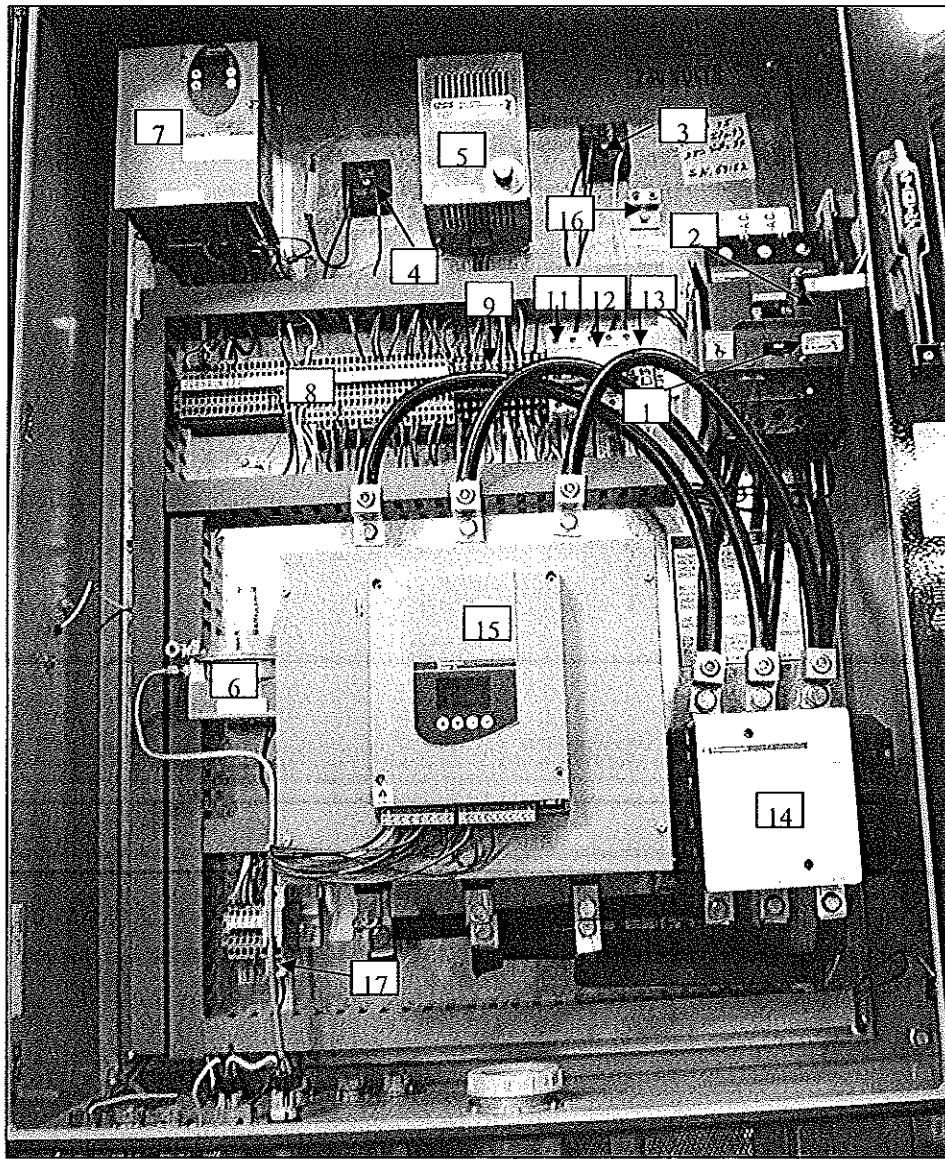
DIRECT START HIGH VOLTAGE CABINET



Ref. Part No.	Qty.	Description	Ref. Part No.	Qty.	Description
1	1	DISCONNECT*	14	1257010	TERMINAL BLOCK, SPRING 3 WIRE
	1	DISCONNECT MECHANISM	14A	1257011	1 TERMINAL END PLATE 3 WIRE
2	1256918	2 GROUNDING LUG	15	1257005	TERMINAL BLK, SPRNG 2 WIRE 6MM
3	1246831	1 TIMER -10 SEC.	15A	1257006	1 TERMINAL END PLATE SINGLE 6MM
3A	1276812	1 RESISTOR 10W-3K OHM CERAMIC	16	1257020	1 TERMINAL BLOCK, NEUTRAL 10MM
4	1246954	1 CUSTOMER FILL RELAY (Prior to 2008)			CONTROL-HIGH LIMITW/10' C (Not Shown)
5	1257036	5 RELAY, 2PDT 120V MINI	17	835916	1 Located in High Voltage Cabinet for 10520-10840 models. Located in Ignition Box for 101050 & 101275 models.
6	1257037	5 SOCKET FOR RELAY, 2PDT MINI	18	1257007	4 TERMINAL CENTER JUMPER 6MM
7			19	1257012	TERMINAL MARKER STRIP (OF 10)
8	1256994	1 AIR PRESSURE SWITCH UL/CGA			
9	1256990	1 MINI CIRCUIT BREAKER 30AMP 2POLE			
10	1256988	1 MINI CIRCUIT BREAKER 8AMP			
11		1 PROTECTOR*			
12		1 IEC CONTACTOR*			
13	1257022	1 AC DRIVE TV31 DISCHARGE			

*See Chart on p. 103 for appropriate Voltage, HP, and Part Number

SOFT STARTER HIGH VOLTAGE CABINET



Ref. Part No.	Qty.	Description	Ref. Part No.	Qty.	Description
1	1	DISCONNECT SWITCH*	9	1257036	6 RELAY, 2PDT 120V MINI
2	1	DISCONNECT MECHANISM		1257037	6 SOCKET FOR RELAY, 2PDT MINI
3	475482	1 3 SECOND TIMER 6AMP	11	1256990	1 MINI CIRCUIT BREAKER 30AMP 2POLE
4	1246831	1 TIMER—10 SEC.	12	1256993	1 MINI CIRCUIT BREAKER 4AMP 2POLE
4A	1276812	1 RESISTOR 10W-3K OHM CERAMIC	13	1256988	1 MINI CIRCUIT BREAKER 8AMP
5	1256974	1 ELECTRIC HEATING UNIT 230VOLT	14		1 CONTACTOR*
6	1256994	1 AIR PRESSURE SWITCH UL/CGA	15		1 SOFT STARTER 75 HP/230V*
7	1257022	1 AC DRIVE ATV31 DISCHARGE	16	1256918	2 GROUNDING LUG
8	1257010	1 TERMINAL BLOCK, SPRING 3 WIRE	17	1256998	1 MINI CIRCUIT BREAKER 1/2 AMP
		1257011 1 TERMINAL END PLATE, 3 WIRE			
		1257005 1 TERMINAL BLK,SPRNG 2 WIRE 6MM			
		1257006 2 TERMINAL END PLATE SINGLE 6MM			
		1257007 3 TERMINAL CENTER JUMPER 6MM			
		4906833 2 END RETAINERS FOR DIN RAIL			

*See Chart on p. 103 for appropriate Voltage, HP, and Part Number

208-VOLT 3-PHASE REQUIREMENTS

Motor HP	Contactor	Replacement Coil	Protector	Fault	Soft Starter	Disconnect	Mechanism
20 - IEC Set 63	1236952	1226932	1236964 40-63	1256866		1287517 150	1256945
30 - IEC Set 98	1236970	1226970	1236966 60-100	1256871	4906846	1287517 150	1256945
40 - IEC Set 128	1256858	1226970	1236967 90-150	1256871	1256969	1256927 250	1256947
50 - IEC Set 156	1256888	1226868	1256885 132-220	1256871	1256972	1256927 250	1256947
75 - IEC Set 222	4906853		1257046 200-330	1256871	4906840		

230-VOLT 3-PHASE REQUIREMENTS

Motor HP	Contactor	Replacement Coil	Protector	Fault	Soft Starter	Disconnect	Mechanism
20 - IEC Set 61	1236952	1226932	1236964 40-63	1256866		1287517 150	1256945
30 - IEC Set 88	1236970	1226970	1236966 60-100	1256871		1287517 150	1256945
40 - IEC Set 116	1256858	1226970	1236967 90-150	1256871	4906846	1256927 250	1256947
50 - IEC Set 142	1256858	1226970	1236967 90-150	1256871	1256969	1256927 250	1256947
75 - IEC Set 201	1256874	1226874	1256885 132-220	1256871	1257050	1256927 250	1256947

460-VOLT 3-PHASE REQUIREMENTS

Motor HP	Contactor	Replacement Coil	Protector	Fault	Soft Starter	Disconnect	Mechanism
20 - IEC Set 31	1236930	1226930	1236962 24-32	1256865		1256925 100	1256945
30 - IEC Set 44	1236932	1226932	1236964 40-63	1256866		1256925 100	1256945
40 - IEC Set 58	1236932	1226932	1236964 40-63	1256866		1287517 150	1256945
50 - IEC Set 71	1236953	1226932	1236965 48-80	1256871		1287517 150	1256945
75 - IEC Set 100	1236970	1226970	1236966 60-100	1256871	4906846	1287517 150	1256945

575-VOLT 3-PHASE REQUIREMENTS

Motor HP	Contactor	Replacement Coil	Protector	Fault	Mounting Adapter	Disconnect	Mechanism
20 - IEC Set 24.3	1236951	1226930	1236961 20-25	1256865	1256864	1256925 100	1256945
30 - IEC Set 32	1236930	1226930	1236962 24-32	1256865	1256864	1256925 100	1256945
40 - IEC Set 46	1236932	1226932	1236964 40-63	1256866		1256925 100	1256945
50 - IEC Set 60	1236952	1226932	1236964 40-63	1256866		1287517 150	1256945
75 - IEC Set 90	1236970	1226970	1236966 60-100	1256871		1287517 150	1256945

TOWER DRYER INSTALLATION AND INSTRUCTION PROCEDURE & CHECKLIST

Dryer must be properly shipped and customer ready with the proper main power, fuel supply foundation and tie down requirements before starting this installation instruction procedural check sheet. The tower installation manual must be followed with this checklist.

1. - Check all concrete foundations specifications, including foundation, concrete, and anchor bolts, as per the Concrete Foundation general notes.
2. - Check shipping and unloading sections as per the Set Up instructions with tower sections and weights.
3. - Base Section Installation, including base ladder installation, cross bracing, concrete anchors, outside screen braces, and base ladder installation.
4. - Connect outside walkway installation as per details in installation manual.
5. - Stack screen sections and roof as per ladder and platform requirements shown in manual.
6. - Check ladder safety cage assembly as per tower instruction manual.
7. - Check natural gas or liquid propane plumbing assembly on tower per installation manual.
8. - Check Wiring - Includes fan motor, ignition board box, and ignition electrode and sense wires as called out in the installation manual.
9. - Check air pressure switch and moisture control thermistors.
10. - Check rotary bin switch and linear limits.
11. - Check weather station as indicated in this manual.
12. - Check moisture sensor terminal blocks.
13. - Check customer connection terminals.

Dryer Owner Name: _____

Dryer Serial Number: _____ Dryer Model Number: _____

Installation Completed By: _____

**Please check off and sign this form and fax to 815-459-5889.
This form will be collected and stored at Mathews Company in the Engineering Department**

NOTES



Iron Horse Quality