

Installation Manual



Grain Dryer

MODELS:

DP-DPSL-DPXSL-DPX4T-DPX8GT-DPX12GT-DPX16GT

Dryer Installation & Before Startup

The dryer is designed for minimal field erection time, depending on dryer model and associated sections. This may include assembly and installation of the garner bin.

Before Delivery

- 1) **Site selection: The dryer is not to be operated inside a building or enclosure. Sufficient area around the dryer must be maintained to allow adequate air flow to supply the dryer and to allow exhausted air to escape freely to atmosphere. Do not operate dryer in an area where combustible materials can be drawn into the fans.** Also consider the grain handling systems and the locations of storage bins and existing conveyors in selecting the dryer site. Refer to back page of brochure for general dimensions and specifications.
- 2) **The supply and take away systems** such as fill auger and unload augers should be of sufficient capacity to handle maximum load and unload requirements of each dryer. (Approximately two (2) times each dryer's rated capacity, based on five (5) point moisture removal is recommended.)
- 3) **Dryer is to be set permanently.** Delux maintains recommended foundation drawings for each dryer model that should be followed for new installations. If any doubt, consult local certified engineer for your specific application.
- 4) **Dryer must be level both lengthwise and crosswise at all times during the drying process or damage to the dryer will result.**
- 5) **Consult your local electrical power company for proper transformer sizing. Consult with your local electrician for installation of electrical service.**
- 6) **Consult your propane or natural gas service supplier for locating and sizing tank, meters and regulators.**

Electrical Hookup

- 1) **All dryers should be equipped with a power disconnect switch ahead of dryer control box to permit total power shut down before opening control box, as required for inspection and service. The power disconnect switch should also be located close to the dryer for quick shut down. Dryer service should be protected by means that will suffice local or state electrical codes.**
- 2) An adequate power supply, proper wire size and electrical grounding are important factors for maximum performance and long dryer life. Electrical service must be of adequate size to prevent low voltage damage to motors and control circuits. See table 2.1 for full load amps per dryer model.

- 3) Dryers are wired for one of the following voltage options: 230V single (1) phase, 208V, 240V, 380V, 415V, 480V or 575V three (3) phase operation. When only 240V single (1) phase power is available, a phase converter may be installed ahead of dryer to obtain three (3) phase power to operate 240V or 480V three (3) phase dryers.
- 4) All motors that are wired at the factory are phased together. If one motor runs backwards, they all will. Simply change the L1 & L3 wire leads around at the distribution block for proper rotation. **(Note: Control design requires wild leg to be connected to terminal "L2" on 240V three (3) phase dryers).**
- 5) The rotation of the fans should be clockwise when looking at the burner downward.
- 6) Check fan motor current, discharge and leveling motor current before and after the dryer is filled with grain. Make certain the current draw on each motor is within the acceptable range.
- 7) The rotation of the discharge auger or drag conveyor should move the grain towards the exit for grain being discharged from the dryer.
- 8) The rotation of the leveling auger or conveyor should move in the direction that pulls grain away from the point of filling the grain dryer.
- 9) Auxiliary starting equipment is supplied as standard equipment. Refer to drawing for properly connecting and interlocking wet loading and dry unloading auxiliary starting equipment located in the electrical control panel. Make certain that the motor overload protection matches the motor being used.
- 10) **Make sure dryer is properly grounded.** A ground lug is provided near the main distribution block
- 11) **Have the power company or your local electrician check line voltage and amperage.** Make sure voltage drop is minimal.
- 12) Prior to running the dryer for the first time, make sure all field electrical connections have been terminated.

LP Fuel Systems

- 1) **Consult your local propane supplier for proper line sizing requirements and local gas codes.** Proper line and pressure requirements should be based off of maximum btu/hr consumption per dryer model. See table 2.2.
- 2) **Dryer must be started on vapor until internal vaporizer is warm, then switched to liquid. Tank must have both vapor and liquid draw available to dryer.**

The dryer is designed to operate on liquid propane drawn from the supply tank. However initial start-up requires vapor to be drawn from the tank to allow the dryer to start and warm up. Once the temperature inside the dryer has risen, you may switch over to liquid. Typically a “Y” is installed at the supply tank to feed either liquid or vapor to the LP inlet manifold of the dryer. In other instances running separate lines for both liquid and vapor may be appropriate.

- 3) Normal operating vapor pressure (on regulator) is 10-12 psi. **Do not exceed 20 psi.**
- 4) Before starting the dryer for the first time, make certain that all pipe unions and fittings are properly tightened both inside and outside of the dryer.
- 5) In some cases burner orifices may need to be resized to accommodate varying drying conditions.

E. NG Fuel Systems

- 1) **Consult your local gas supplier for proper line sizing requirements and local gas codes.** Proper line size and pressure requirements should be based on maximum BTU/HR consumption per dryer model. See table 2.2.
- 2) All natural gas dryers require a pressure regulator near the base of the dryer to minimize pressure fluctuations.
- 3) **Supply pressure to dryer fuel system must not exceed 20 psi.** Normal supply pressure to operate properly is 8-12 psi
- 4) Before starting the dryer for the first time, make certain that all pipe unions and fittings both inside and outside the dryer are properly tightened.
- 5) In some cases burner orifices may need to be resized to accommodate varying drying conditions.

Field Assembly & Erection

- 1) Unload dryer sections and inspect for damage during shipment. If the dryer has multiple sections, unload so that each section sets on level ground. Block and evenly distribute the weight of the sections at least every 5 feet for the length of the dryer.
- 2) Set the base of the dryer onto the concrete foundation pad. Measure the placement precisely so that the fuel, electricity, load and unload points of the dryer meet where they had been planned for prior. Install the optional leg kit to the bottom frame angle of the dryer and secure. Then secure the leg kit to the foundation.
- 3) When needed, assemble the garner bin using drawing (900-009194). Assemble the garner bin on a flat surface at ground level. Use the lifting eyelets to raise the

assembled garner bin to the top of the dryer (roof) and secure. Variations in dryer models may result in your specific garner bin looking a bit different from the drawing, but the overall assembly objective is the same.

- 4) Make the electrical connections for the high/low fill switch, low grain switch & leveling motor. Check high/low fill switch for proper fill switch settings.
- 5) When needed, assemble the side walkways while the dryer section is on the ground. Remove the bottom bolts from the walkway that secure it parallel to the dryer during shipment. Lift the walkway up so that it is perpendicular to the dryer and install the walkway support angles. Use drawing (900-008640) to install the handrail and fittings.
- 6) When needed, assemble the garner walkway handrail & fittings while the roof section is on the ground. Use drawing (400-008624) to install the handrail and fittings.
- 7) Install the plenum walkway handrail and fittings on the base section. Use drawing (400-008618) to install the handrail and fittings.
- 8) When needed, install the ladders to each dryer section. Base ladders (no cage) are secured to the dryer before shipment. Sections above the base will need to have ladders installed. With the dryer section on the ground, align the ladder upright to determine which bolts on the endwall will need to be removed. Install the ladders in opposite corners of each dryer section. Each ladder cage opening should correspond with a walkway or platform. In some instances a ladder cage may interfere with a side walkway support angle. Route the support angle through the ladder cage if this occurs.
- 9) When needed, lift the burner can(s) into the plenum and secure them to the fan drum(s) before stacking any other sections. Install and connect the burner manifold pipe to each burner. Route the spark plug, flame rod & ground wire through the grommets of the fan drum to the burner.
- 10) When needed, lift empty sections (above the base section) into place. Use tag lines at both ends of the section to keep it aligned with the rest of the dryer. Lower and secure the section into place using the hardware shown on drawing (900-005526).
- 11) Lift the roof (and garner bin) section into place. Use tag lines at both ends of the section to keep it aligned with the rest of the dryer. Lower and secure the section into place using the hardware shown on the illustration erection drawing (900-005523).

- 12) When needed, install and connect the pipes between the fuel manifold and the vaporizer.
- 13) Install the electrical conduit and saddles on the end(s) of the dryer. Route the wire bundle from the top of the dryer through the conduit. Match and connect wire colors or wire numbers in each junction box.
- 14) When needed, install the plenum door assembly using drawing (900-010876)
- 15) When needed, install the drag conveyor using drawing (900-008749 / 900-008750)
- 16) When needed, install the auger trough and auger extension.
- 17) When needed, install the MoistureLink sensor bypass chute to the discharge using drawing (900-010161 / 900-010162)
- 18) Make sure all bolts and screws are in place and tight. Make sure metering rolls and augers are free of any foreign material.
- 19) When needed, remove any section bracing that interferes with walking atop the heat deck (marked in red).
- 20) Before filling the dryer with grain for the first time, check the dryer inside and outside for missing nuts or bolts. Also, check to make sure the feedrolls are clear of any nuts or bolts that may have been dropped in the field assembly process.

MoistureLink Discharge System

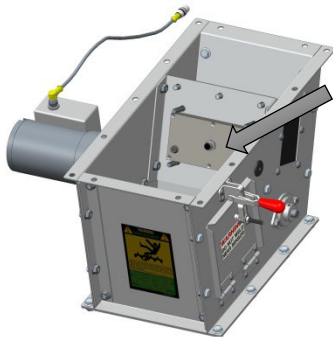
Finishing the installation of the discharge sensor by-pass chute is the only field installation that is required from factory. Care must be taken so that components are not damaged during the installation of other grain handling equipment set in place to carry grain away from the dryer. The discharge sensor located in the by-pass chute is electrically sensitive. Welding, plasma-cutting, or any type of arc-to-ground construction equipment used on the discharge sensor by-pass chute or dryer will void the manufacturer's warranty for the sensor. It is recommended that the sensor be installed after all millwright work has been done on the handling system. It is also recommended that the sensor be removed if any subsequent welding, cutting, etc. is to be done near or around the dryer.

Depending on the dryer installation, there may be variations in the discharge length or type but the by-pass chute assembly is similar for both.

- Install the auger extension trough & auger. This is the portion of the auger and carrying trough that extends past the end of the dryer. If the dryer discharge is a drag conveyor, install the drag conveyor first.

- Use drawing 900-010162 for assembly & dimensioning for discharge auger installations.
- Use drawing 900-010161 for assembly & dimensioning for discharge drag installations.

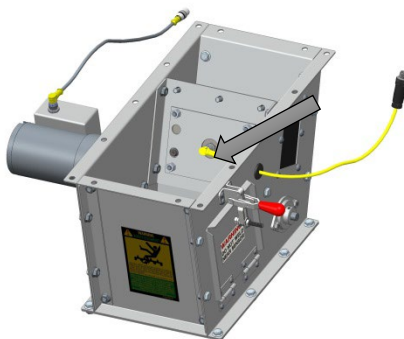
Install the discharge sensor & cable as shown:



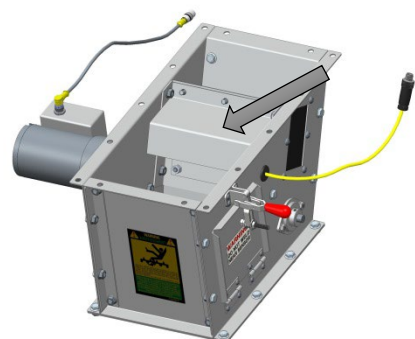
Step 1
Remove sensor cover & compression plate and install sensor as shown.



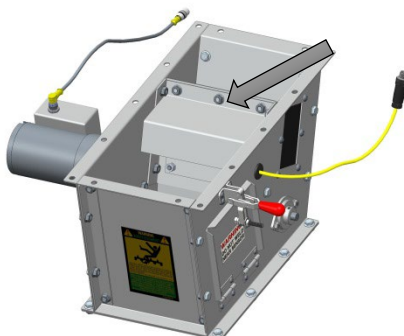
Step 2
Install sensor compression plate and tighten down with nylon lock nuts provided.



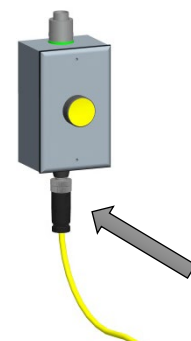
Step 3
Connect the moisture sensor cable (yellow) to the sensor. Remove the rubber grommet to get the right angle plug through the hole.



Step 4
Reinstall the sensor cover plate.

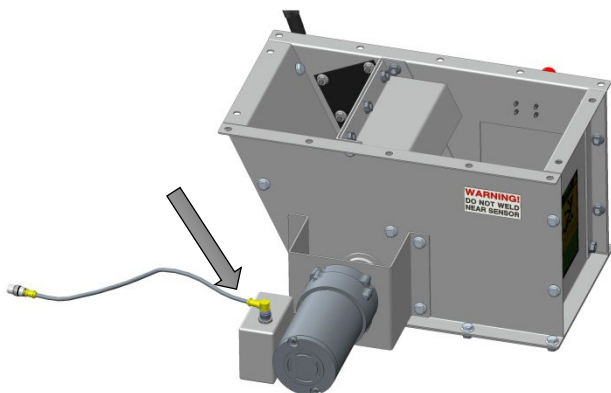


Step 5
Reinstall all hardware & make sure it is tightened before completing the installation.

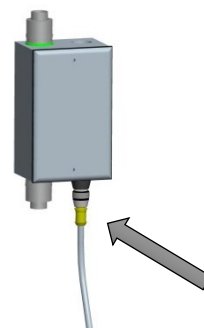


Step 6
Connect the other end of the moisture sensor cable to the Sensor Calibration Button Junction Box.

Install the gearmotor cable as shown:



Step 1
Connect the right angle end of the gearmotor sensor cable (gray) to the gearmotor.



Step 2
Connect the other end of the gearmotor sensor cable to the Gearmotor / Discharge Overflow Junction Box.

VFD Installation

The dryer fan controls are integrated into the program of the MoistureLink GX control system.

The MoistureLink GX controls must have the following connections to function as intended.

Electrical Hookup

- 1) Overload (Fault/Alarm) – Normally Closed contacts when VFD's are in a safe state and ready to run, contacts must open when the VFD faults/Alarms.
 - a. 24VDC – to VFD Normally Closed common
 - b. Dryer terminals - **S1O** (Fan 1), **S2O** (Fan 2), **S3O** (Fan 3), **S4O** (Fan 4) – to VFD Normally Closed contact (Opens on Fault/Alarm)
- 2) Interlock (Run) – Normally Open contact When the VFD is off, Closes when the VFD is up to speed and running.
 - a. 24VDC – to VFD Normally Open Common
 - b. Dryer terminals - **S1I** – Fan 1, **S2I** – Fan 2, **S3I** – Fan 3, **S4I** – Fan 4 – to VFD Normally Open contact (Closes on Run)
- 3) Coil (Start) – 120Vac from the dryer when the Fan is to be running.
 - a. Dryer terminals - **S1C** – Fan 1, **S2C** – Fan 2, **S3C** – Fan 3, **S4C** – Fan 4 – to VFD Start/Run (Often use a 120Vac Coil relay to interface with the VFD Start contacts)
- 4) MOTOR Lead Connections – The Fan motors are wired into the dryer from the factory.

Splice Terminals are provided in the dryer ESC Panel for connection to the VFD output (Wire size varies by HP/Voltage)

VFD Installation Example

Pictured below is an example of a Johnson Control VFD panel installed, on a 3-burner dryer. Note the terminals provided by Johnson Controls for easy installation with our Delux Dryer.

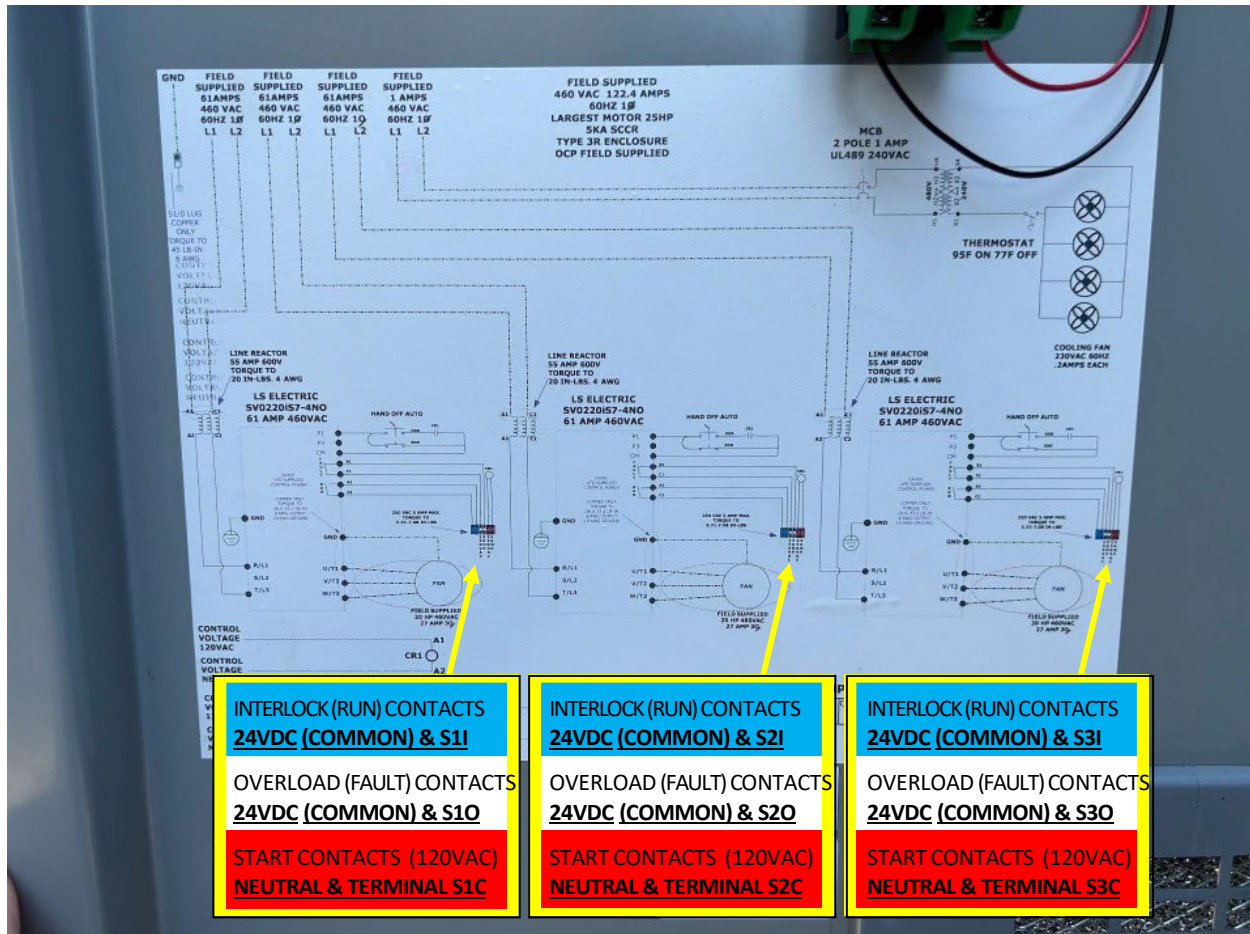


TABLE 2.1

MODEL	FT	FULL LOAD AMPS (DRYER ONLY) - MOTOR TAG DATA					
		230V 1P	208V 3P	230V 3P	400V 3P	460V 3P	575V 3P
DP10 (15hp)	10	77.9	N/A	N/A	N/A	N/A	N/A
DP15	15	99.5	N/A	N/A	N/A	N/A	N/A
DP20	20	99.5	N/A	N/A	N/A	N/A	N/A
DP30	30	145.6	N/A	N/A	N/A	N/A	N/A
DP40	40	191.2	N/A	N/A	N/A	N/A	N/A
DPSL10	10	N/A	70.0	61.7	35.6	31.0	24.8
DPSL15	15	N/A	103.1	90.5	53.2	45.4	36.3
DPSL20	20	N/A	130.7	114.5	65.2	57.4	45.9
DPSL25	25	N/A	177.7	159.7	95.8	80.0	64.0
DPSL30	30	N/A	194.2	169.7	95.8	85.0	68.0
DPSL40	40	N/A	260.2	227.1	129.0	113.7	91.0
DPXSL20	20	N/A	171.7	157.3	93.2	77.4	61.9
DPXSL25	25	N/A	180.5	162.1	96.8	81.2	65.0
DPXSL30	30	N/A	258.5	232.1	138.8	116.2	93.0
DPXSL40	40	N/A	356.0	319.1	191.1	159.7	127.8
DPX4T20	20	N/A	177.7	159.7	95.8	80.0	64.0
DPX4T25	25	N/A	280.5	254.1	146.8	127.2	102.2
DPX4T30	30	N/A	264.2	237.1	143.0	118.7	95.0
DPX4T40	40	N/A	356.0	319.1	191.1	159.7	127.8
DPX8GT20	20	N/A	177.7	159.7	95.8	80.0	64.0
DPX8GT25	25	N/A	286.2	259.1	151.0	129.7	104.2
DPX8GT30	30	N/A	264.2	237.1	143.0	118.7	95.0
DPX8GT40	40	N/A	356.0	319.1	191.1	159.7	127.8
DPX12GT20	20	N/A	225.7	203.7	123.8	102.0	81.6
DPX12GT25	25	N/A	328.2	299.1	178.0	149.7	119.8
DPX12GT30	30	N/A	336.2	303.1	185.0	151.7	121.4
DPX12GT40	40	N/A	457.7	412.1	251.3	206.2	165.0
DPX16GT20	20	N/A	277.7	251.7	145.8	126.0	101.2
DPX16GT25	25	N/A	328.2	299.1	178.0	149.7	119.8
DPX16GT30	30	N/A	414.2	375.1	218.0	187.7	150.8
DPX16GT40	40	N/A	561.7	508.1	295.3	254.2	204.2

** FULL LOAD AMPS BASED ON MOTOR TAG DATA AVAILABLE AT DATE PUBLISHED.

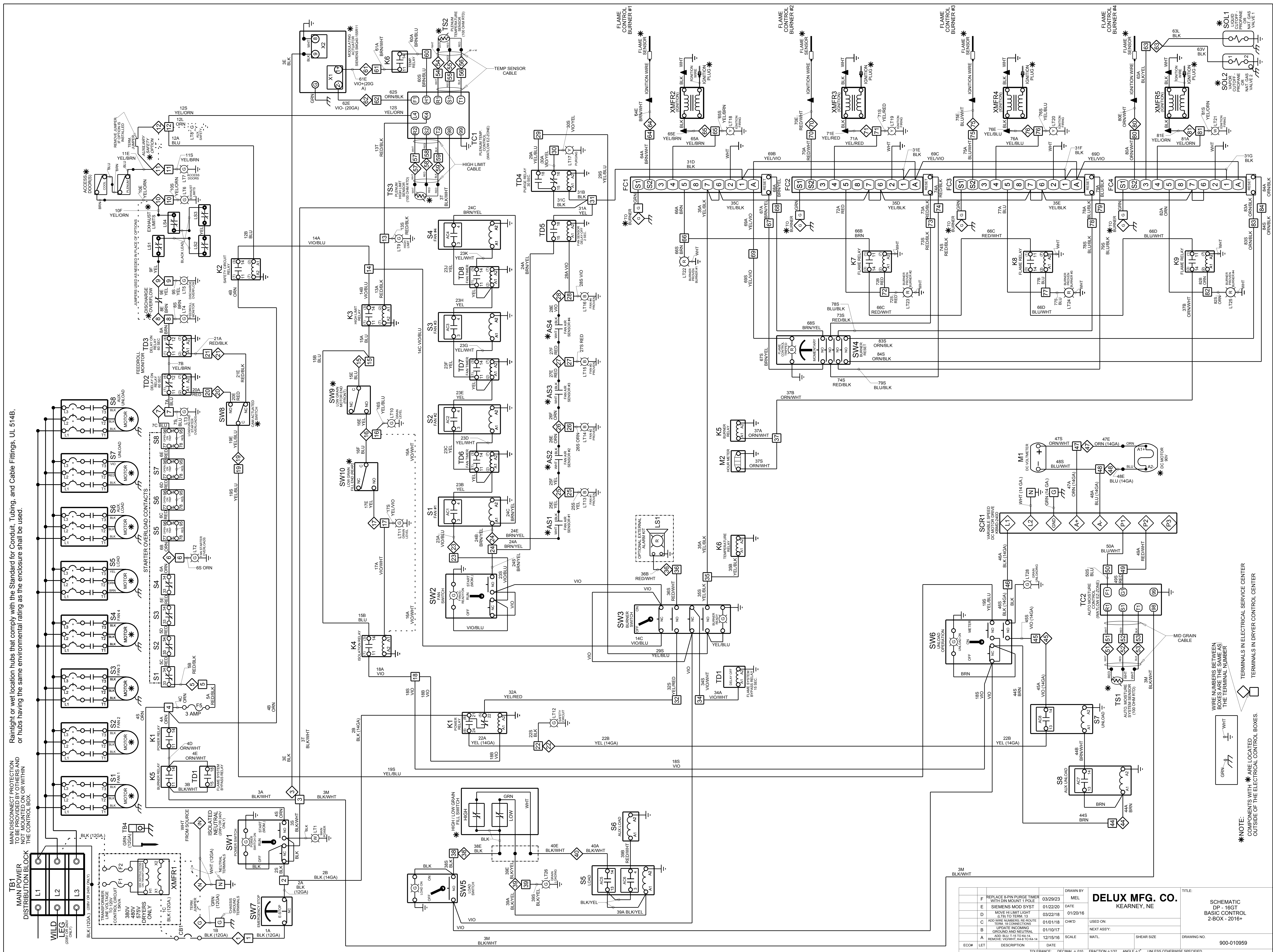
** FULL LOAD AMPS DOES NOT INCLUDE ANY AUX. HANDLING EQUIPMENT.

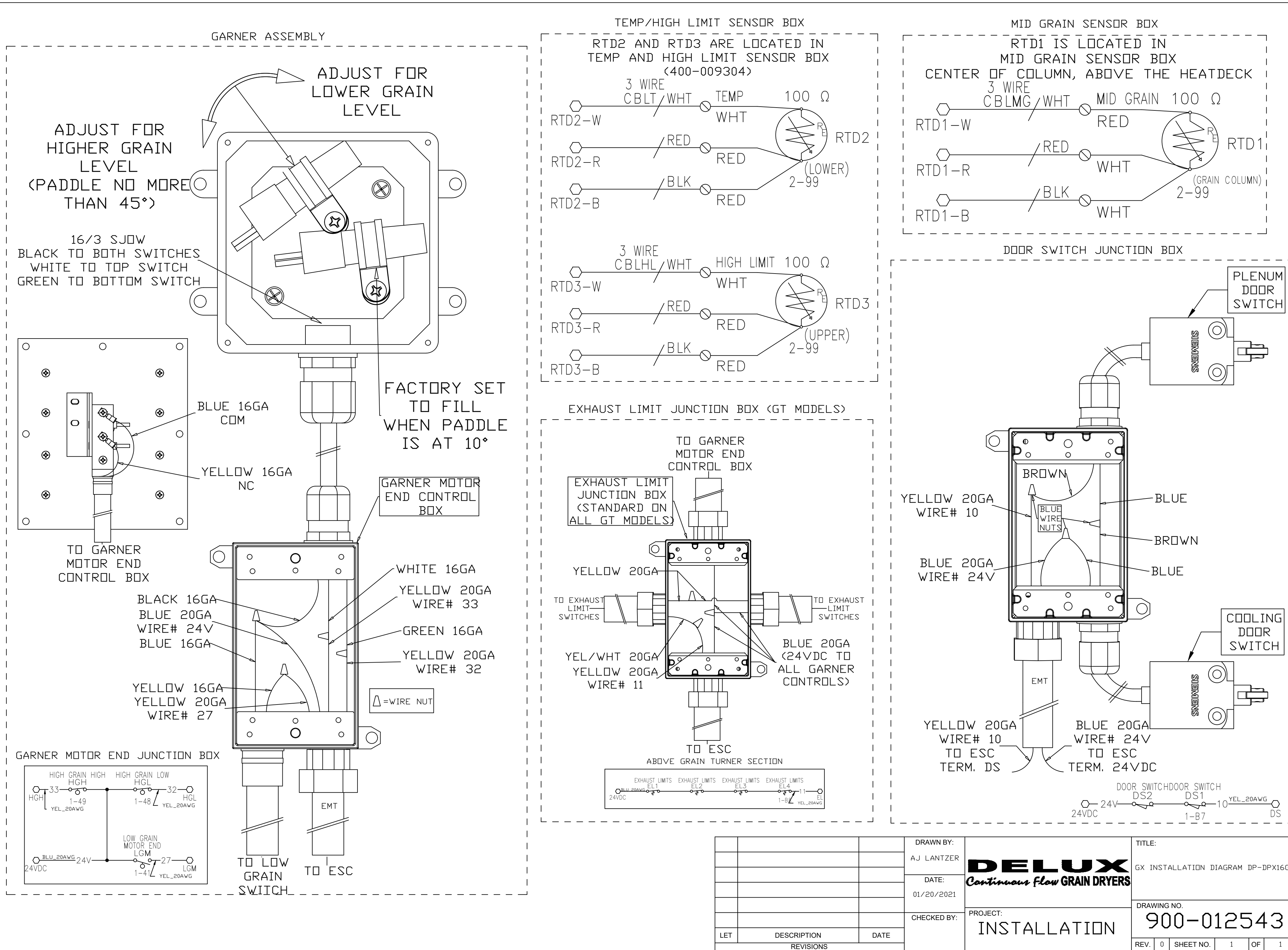
TABLE 2.2

MINIMUM AND MAXIMUM BTU/HR / and / MAXIMUM UNLOAD RATE

MODEL	TOTAL CFM	MINIMUM		MAXIMUM		MAX w/Reclaim		MAX. UNLOAD RATE (BPH)
		TEMP. RISE (F)	BTU/HR (MILLION)	TEMP. RISE (F)	BTU/HR (MILLION)	TEMP. RISE (F)	BTU/HR (MILLION)	
DP10	14,985	50	0.8	160	2.6	130	2.1	552
DP15	20,154	50	1.1	160	3.5	130	2.8	828
DP20	20,154	50	1.1	160	3.5	130	2.8	1103
DP30	30,231	50	1.6	160	5.2	130	4.2	1655
DP40	40,308	50	2.2	160	7.0	130	5.7	2207
DPSL10	17,808	50	1.0	160	3.1	130	2.5	552
DPSL15	22,896	50	1.2	160	4.0	130	3.2	828
DPSL20	35,616	50	1.9	160	6.2	130	5.0	1103
DPSL25	45,792	50	2.5	160	7.9	130	6.4	1379
DPSL30	53,424	50	2.9	160	9.2	130	7.5	1655
DPSL40	71,232	50	3.8	160	12.3	130	10.0	2207
DPXSL20	45,792	50	2.5	160	7.9	130	6.4	1471
DPXSL25	57,876	50	3.1	160	10.0	130	8.1	1840
DPXSL30	68,688	50	3.7	160	11.9	130	9.6	2207
DPXSL40	91,584	50	4.9	160	15.8	130	12.9	2942
DPX4T20	57,876	50	3.1	160	10.0	130	8.1	2207
DPX4T25	79,500	50	4.3	160	13.7	130	11.2	2759
DPX4T30	86,814	50	4.7	160	15.0	130	12.2	3311
DPX4T40	115,752	50	6.3	160	20.0	130	16.3	4415
DPX8GT20	57,876	50	3.1	160	10.0	130	8.1	2207
DPX8GT25	79,500	50	4.3	160	13.7	130	11.2	2759
DPX8GT30	86,814	50	4.7	160	15.0	130	12.2	3311
DPX8GT40	115,752	50	6.3	160	20.0	130	16.3	4415
DPX12GT20	68,402	50	3.7	160	11.8	130	9.6	2391
DPX12GT25	88,086	50	4.8	160	15.2	130	12.4	2989
DPX12GT30	102,603	50	5.5	160	17.7	130	14.4	3587
DPX12GT40	136,804	50	7.4	160	23.6	130	19.2	4782
DPX16GT20	79,500	50	4.3	160	13.7	130	11.2	2391
DPX16GT25	88,086	50	4.8	160	15.2	130	12.4	2989
DPX16GT30	119,250	50	6.4	160	20.6	130	16.7	3587
DPX16GT40	159,000	50	8.6	160	27.5	130	22.3	4782

**** OPERATING FUEL CONSUMPTION WILL FALL BETWEEN THE MINIMUM AND MAXIMUM VALUES, AND IS DEPENDENT UPON AMBIENT CONDITIONS AND HEAT RECAPTURE FROM COOLING GRAIN.**



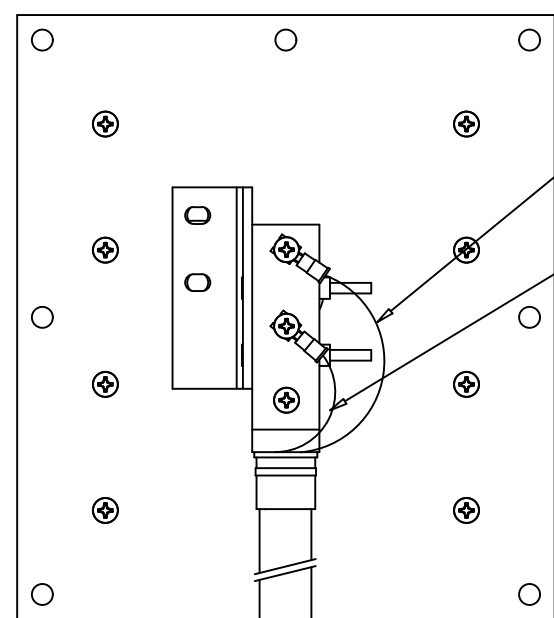


GARNER ASSEMBLY

ADJUST FOR
HIGHER GRAIN
LEVEL
(PADDLE NO MORE
THAN 45°)

ADJUST FOR
LOWER GRAIN
LEVEL

16/3 SJDW
BLACK TO BOTH SWITCHES
WHITE TO TOP SWITCH
GREEN TO BOTTOM SWITCH



TO GARNER
MOTOR END
JUNCTION BOX

BLUE 16GA
WIRE# 15E
BLUE 16GA
YELLOW 16GA
YELLOW 16GA
WIRE# 16E

TO GARNER
MOTOR
BRN, ORN, YEL 12GA
GRN 14GA

BLUE 16GA
COM
YELLOW 16GA
NC

FACTORY SET
TO FILL
WHEN PADDLE
IS AT 10°

BLACK 16GA(SJD)
BLACK 16GA
WIRE# 38E
WHITE 16GA(SJD)
BLK/WHT 16GA
WIRE# 40E
GREEN 16GA(SJD)
BLK/YEL 16GA
WIRE# 39E

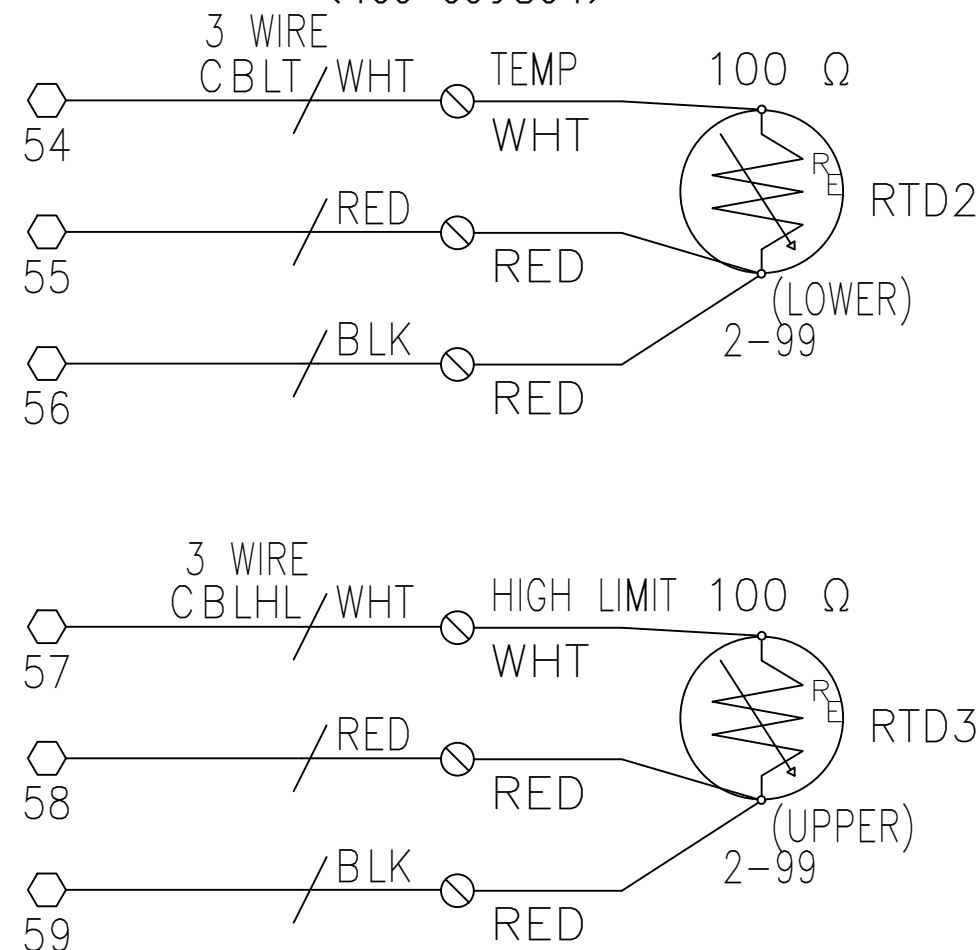
Δ = WIRE NUT

TO LOW
GRAIN
SWITCH

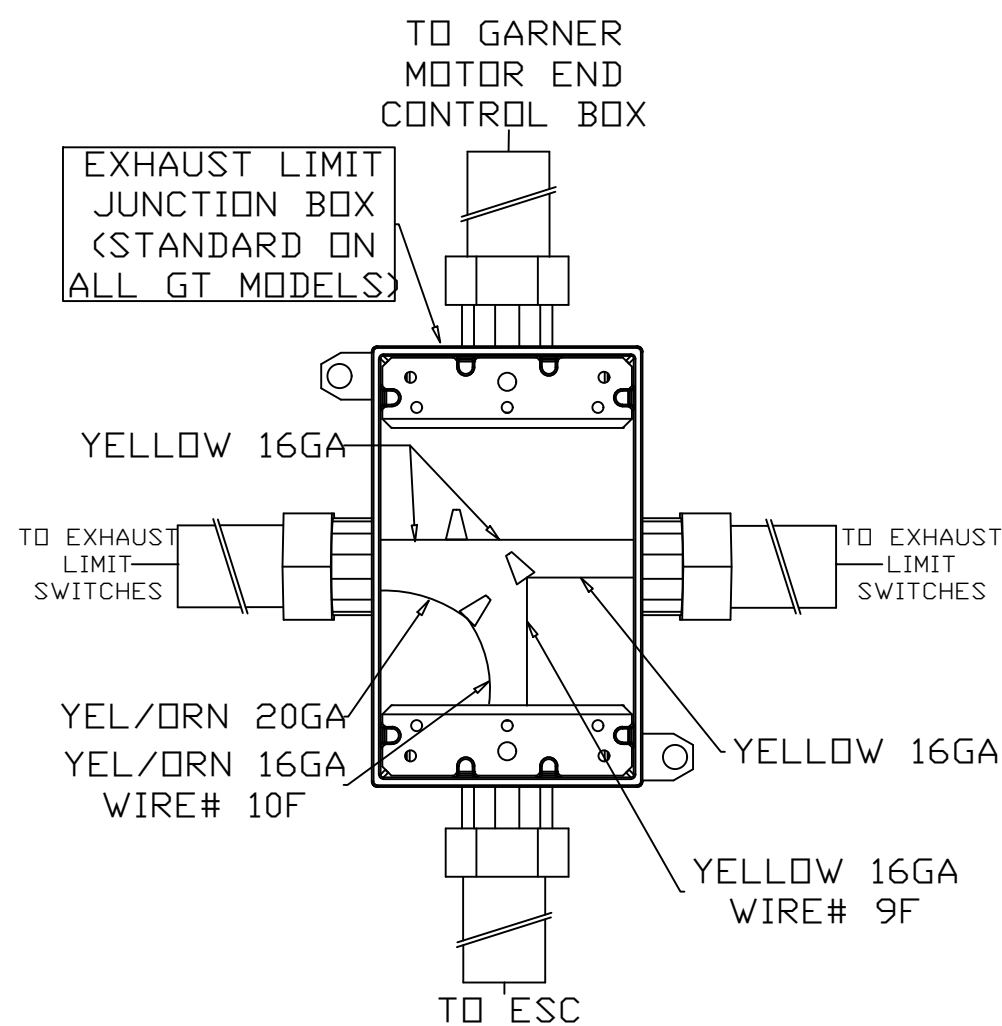
TO ESC

TEMP/HIGH LIMIT SENSOR BOX

RTD2 AND RTD3 ARE LOCATED IN
TEMP AND HIGH LIMIT SENSOR BOX
(400-009304)

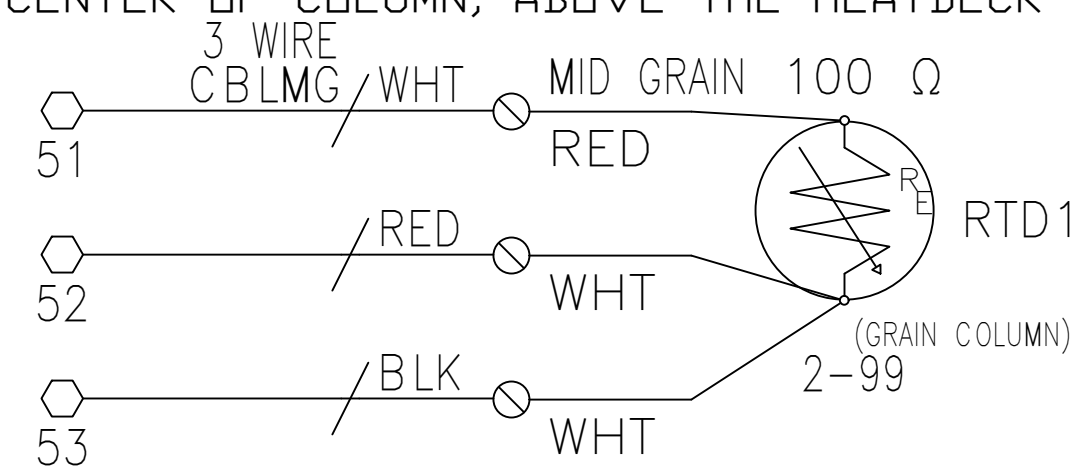


EXHAUST LIMIT JUNCTION BOX (GT MODELS)

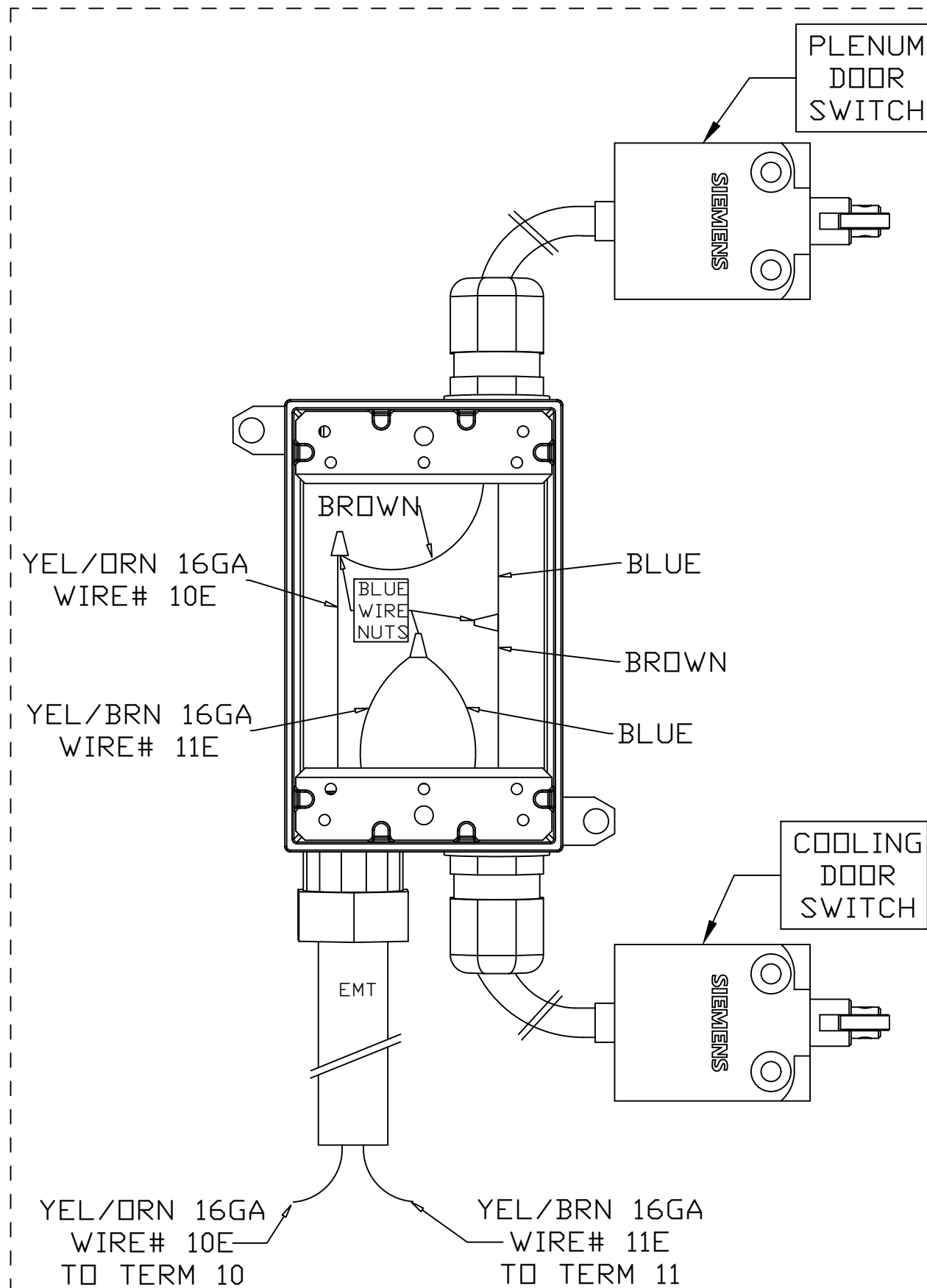


MID GRAIN SENSOR BOX

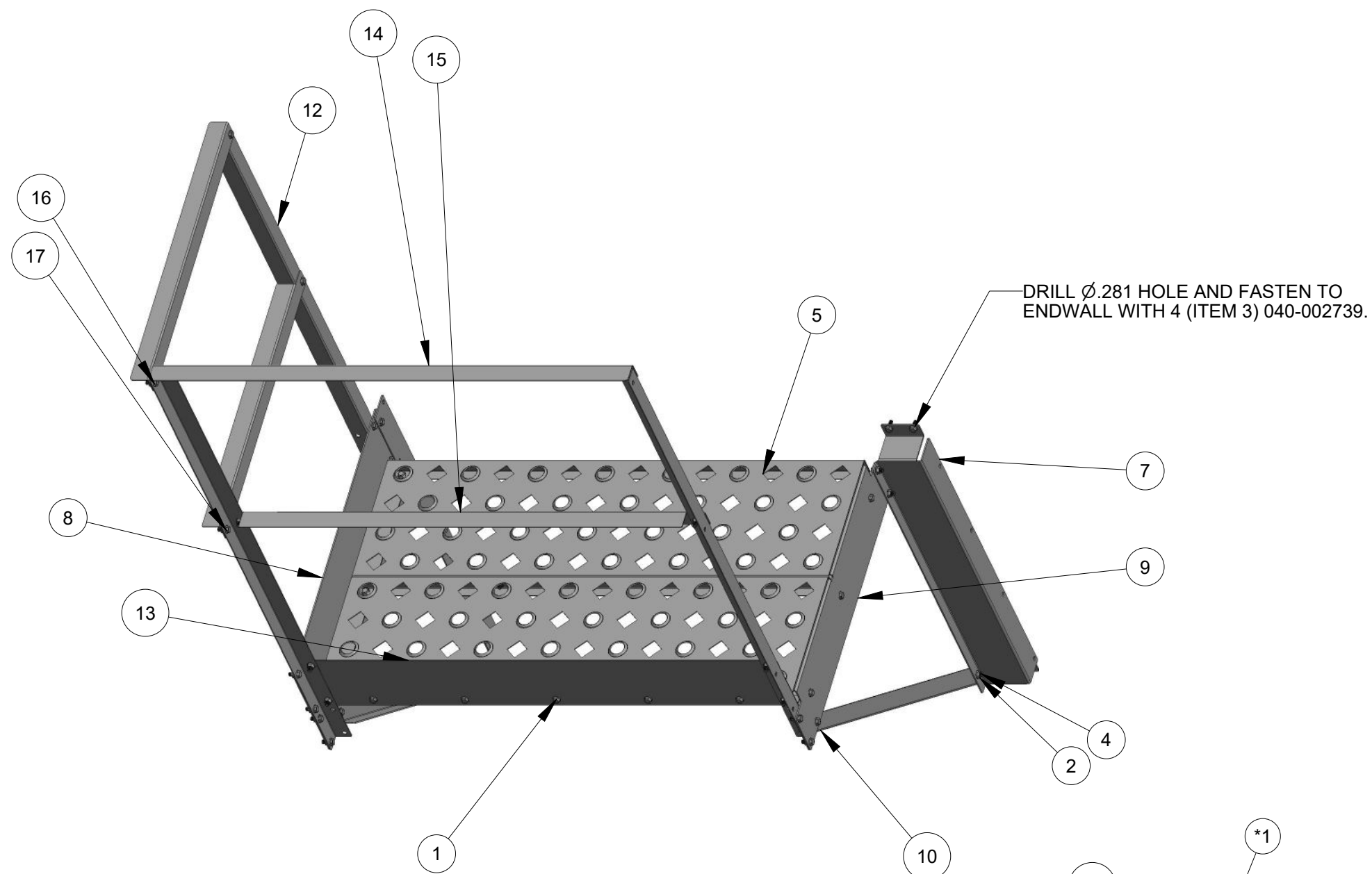
RTD1 IS LOCATED IN
MID GRAIN SENSOR BOX
CENTER OF COLUMN, ABOVE THE HEATDECK



DOOR SWITCH JUNCTION BOX

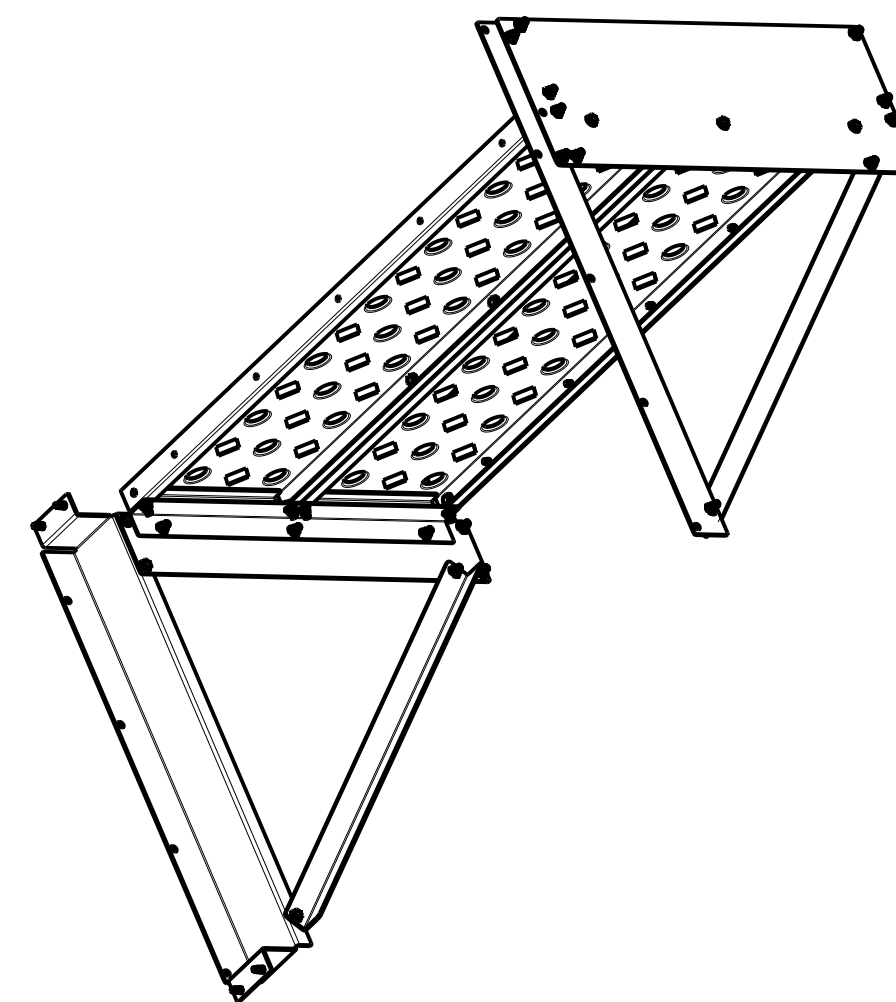
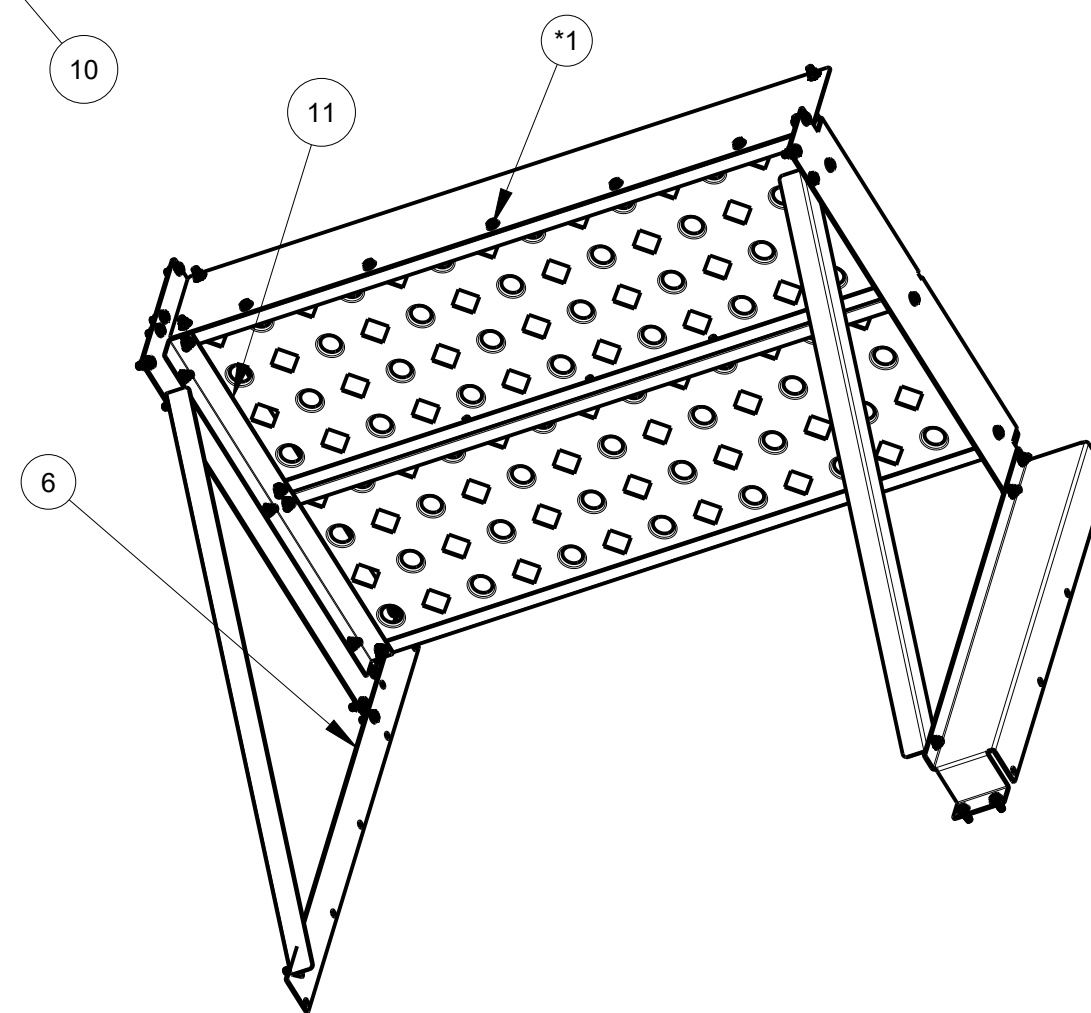
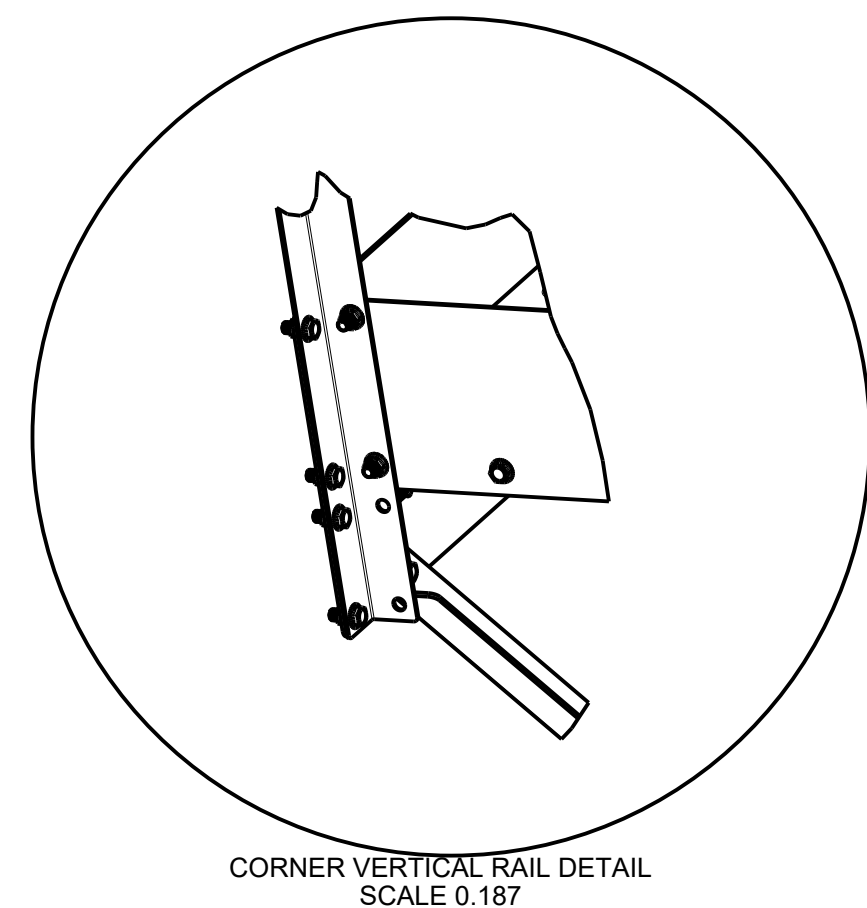


			DRAWN BY:	DELUX <i>Continuous Flow</i> GRAIN DRYERS	TITLE:						
			AJ LANTZER		BASIC PANEL INSTLN. DIAGRAM DP-16G						
			DATE: 01/20/2021		DRAWING NO.						
			CHECKED BY:	PROJECT: INSTALLATION	900-012817						
LET	DESCRIPTION		DATE			REV.	0	SHEET NO.	1	OF	1
REVISIONS											

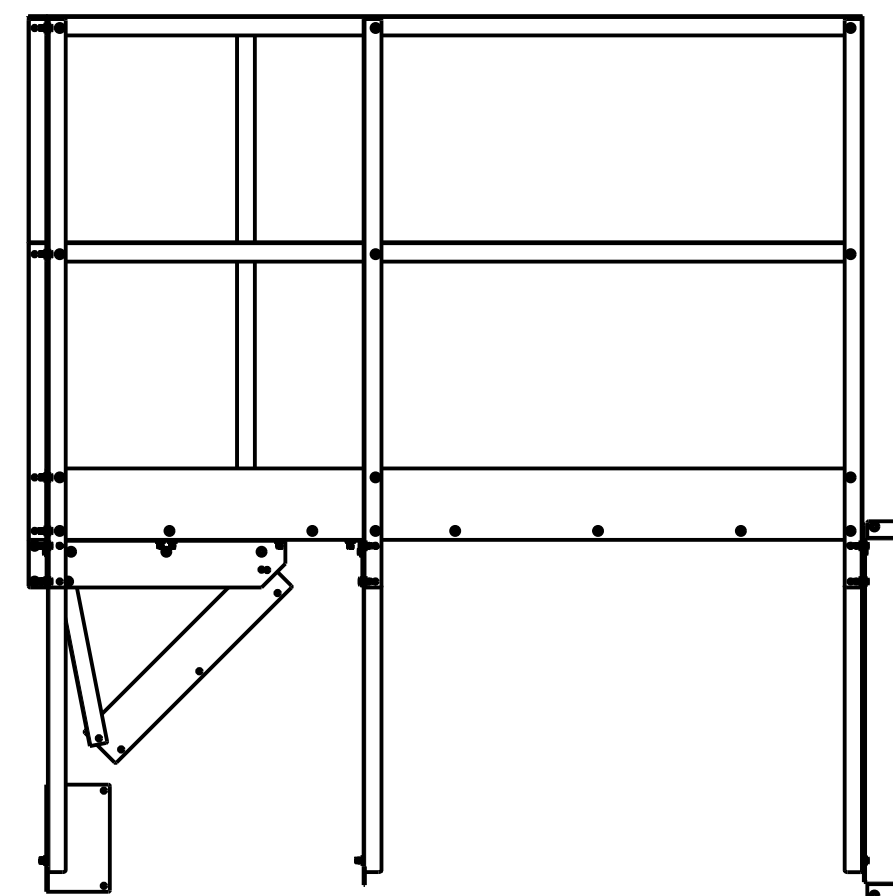
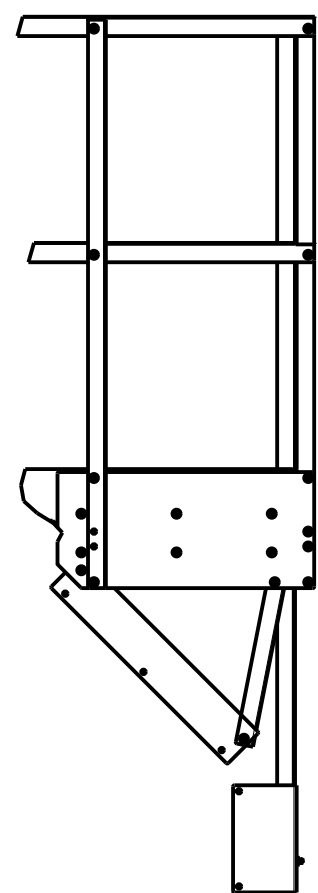


* 1 USE 040-001450 - to fasten
TOE GUARDS TO WALKWAY PLANKS

ITEM	PART NUMBER	QTY	DESCRIPTION
1	040-001450	5	SCREW - TCS - HEX - 5/16-18UNC X 1/2
2	040-001459	47	NUT - WHIZ LOCK - 5/16-18UNC
3	040-002739	4	SCREW - TCS - HEX - 5/16-18UNC X 3/4
4	040-005321	47	BOLT - WHIZ LOCK - 5/16-18UNC X 3/4"
5	100-012667	2	WALKWAY PLANK-12" X 42"-GARNER/PLENUM-REV22
6	100-012675	1	WALKWAY SUPPORT-LEFT-PLENUM-REV22
7	100-012676	1	WALKWAY SUPPORT-RIGHT-GARNER & PLENUM-REV22
8	100-012677	1	WALKWAY BRACKET LEFT-PLENUM-REV22
9	100-012678	1	WALKWAY BRACKET RIGHT-GARNER & PLENUM-REV22
10	100-012679	2	WALKWAY BRACE-24" PLANK-REV22
11	100-012680	2	WALKWAY MOUNT ANGLE-24" PLANK-REV22
12	100-012681	3	HANDRAIL-VERTICAL-DP-DPXGT-REV22
13	100-012682	1	WALKWAY TOEGUARD-FRONT-PLENUM-REV22
14	100-012683	1	HANDRAIL-42"-TOP-REV22
15	100-012684	1	HANDRAIL-42"-MID-REV22
16	100-012685	1	HANDRAIL-26.75-TOP-REV22
17	100-012686	1	HANDRAIL-26.75-MID-REV22



MASS:		88.106		PART NO.:		035-012669	
				DESCRIPTION:		KIT-WALKWAY-PLENUM-REV22	
				MODELED BY:		M. LANTZER	
				THICKNESS:			
				MATERIAL:			
				SCALE:	0.093	DELUX MFG. CO. KEARNEY, NE	
				DATE:	Nov-05-21		
ECO#	LET	DESCRIPTION	DATE	USED ON:			
TOLERANCE: DECIMAL ±.010 FRACTION ±1/32 ANGLE ±1° UNLESS OTHERWISE SPECIFIED							



This technical drawing shows a cross-section of a window assembly. It includes a frame with a top rail, a side rail, and a bottom rail. A sash is shown in the open position, revealing the glazing. The drawing uses standard architectural conventions, including section lines and dimension lines, to illustrate the components and their assembly.

MASS:		202.480		PART NO.:		035-012670	
				DESCRIPTION:		KIT-WALKWAY-GARNER-REV22	
				MODELED BY:		M. LANTZER	
				THICKNESS:			
				MATERIAL:			
				SCALE:	0.078	DELUX MFG. CO. KEARNEY, NE	
				DATE:	Jun-08-22		
ECO#	LET	DESCRIPTION	DATE	USED ON:			
TOLERANCE:				DECIMAL ± .010	FRACTION ± 1/32		



LADDER END

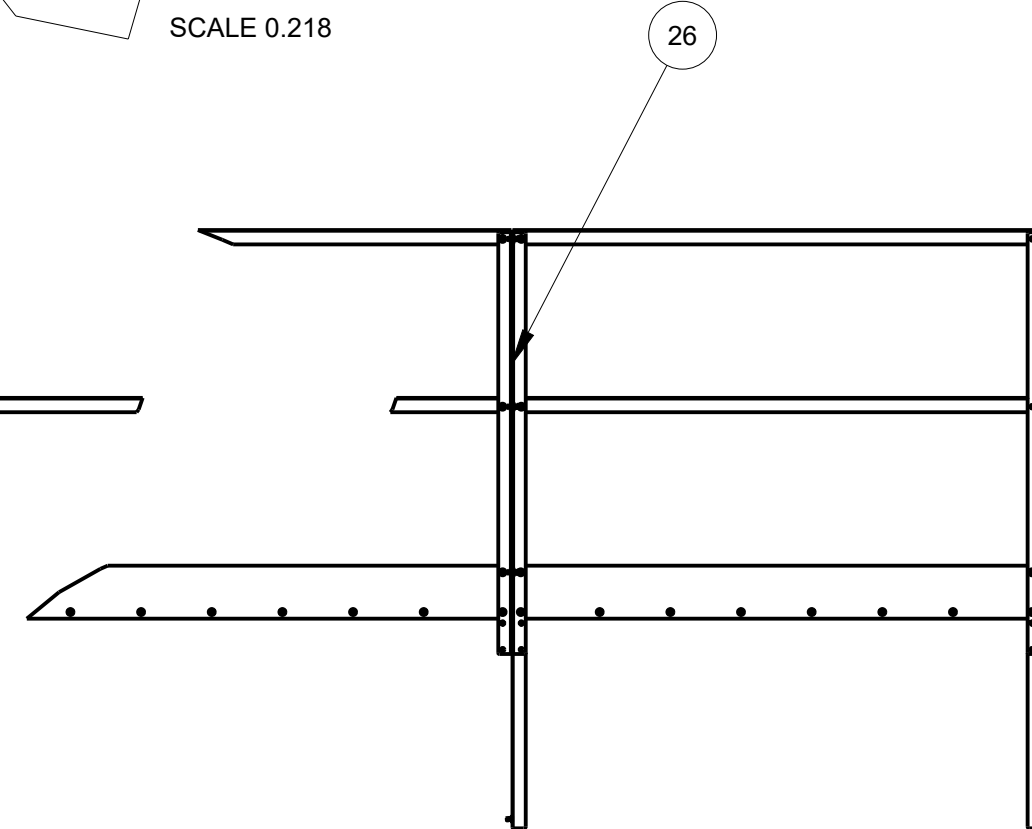
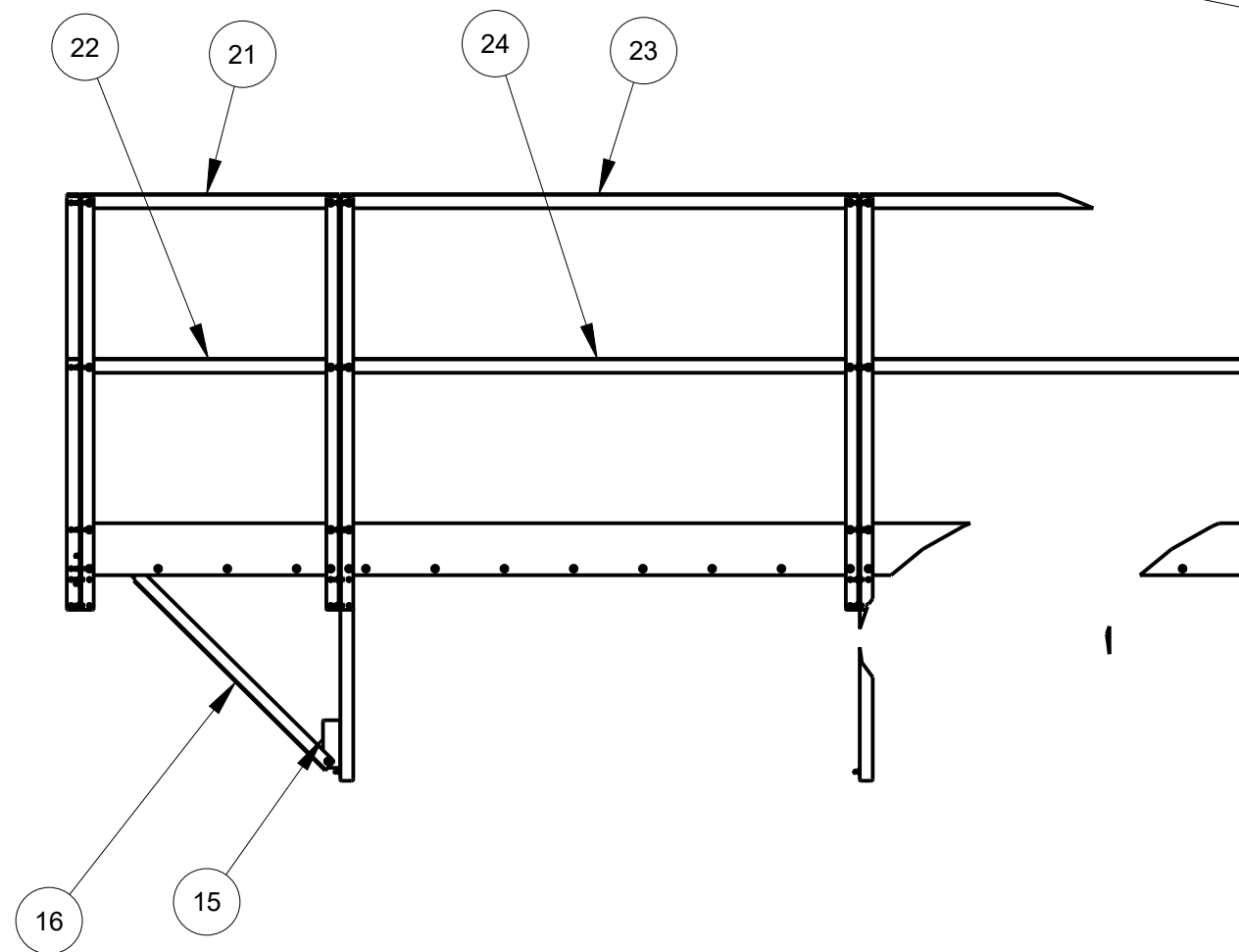
CLOSED END

MASS:		367.753		PART NO.:		035-012671	
				DESCRIPTION:		KIT-SIDE WALKWAY-20FT-REV22	
				MODELED BY:		M. LANTZER	
				THICKNESS:			
				MATERIAL:			
				SCALE:	0.046	DELUX MFG. CO. KEARNEY, NE	
				DATE:	Mar-23-22		
ECO#	LET	DESCRIPTION	DATE	USED ON:			
TOLERANCE: DECIMAL ±.010 FRACTION ±1/32 ANGLE ±1° UNLESS OTHERWISE SPECIFIED							

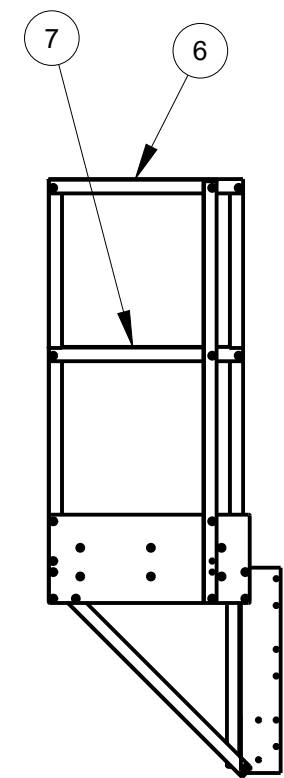


Diagram of a ladder assembly. Callout 19 points to the top rail. Callout 20 points to the side rail. Callout 4 points to the ladder body. Callout 10 points to the diagonal brace.

LADDER END



CLOSED END

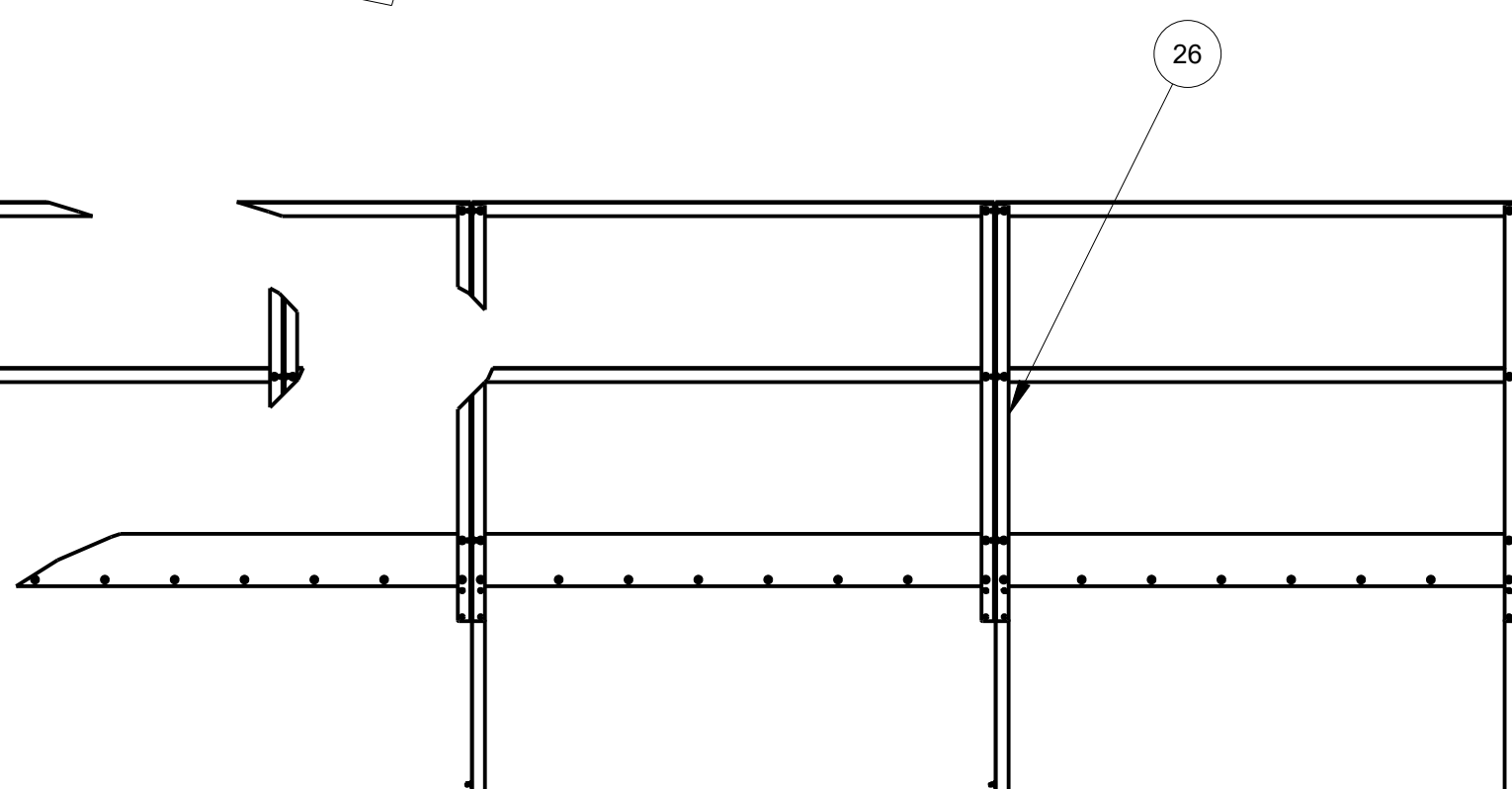


ITEM	PART NUMBER	QTY	DESCRIPTION
1	040-001450	40	SCREW - TCS - HEX - 5/16-18UNC X 1/2
2	040-001459	242	NUT - WHIZ LOCK - 5/16-18UNC
3	040-005321	242	BOLT - WHIZ LOCK - 5/16-18UNC X 3/4"
4	100-012681	4	HANDRAIL-VERTICAL-DP-DPXGT-REV22
5	100-012692	14	WALKWAY MOUNT ANGLE-20" SIDE-REV22
6	100-012693	1	HANDRAIL-19"-TOP-REV22
7	100-012694	1	HANDRAIL-19"-MID-REV22
8	100-012741	7	WALKWAY SUPPORT-SIDE-REV22
9	100-012742	6	WALKWAY BRACKET-20" SIDE-REV22
10	100-012743	7	WALKWAY BRACE-SIDE-REV22
11	100-012746	5	WALKWAY TOE GUARD-60"-SIDE-REV22
12	100-012747	1	WALKWAY TOE GUARD-90"-SIDE-REV22
13	100-012748	1	WALKWAY BRACKET-LADDER END-20" SIDE-REV22
14	100-012749	1	WALKWAY BRACKET-CLOSED END-20" SIDE-REV22
15	100-012750	1	WALKWAY BRACKET ANGLE-LADDER END-REV22
16	100-012752	1	WALKWAY BRACE-LADDER END-REV22
17	100-012753	10	WALKWAY PLANK-10" X 60"-REV22
18	100-012754	2	WALKWAY PLANK-10" X 90"-REV22
19	100-012755	1	HANDRAIL-22"-TOP-REV22
20	100-012756	1	HANDRAIL-22"-MID-REV22
21	100-012757	1	HANDRAIL-30"-TOP-REV22
22	100-012758	1	HANDRAIL-30"-MID-REV22
23	100-012759	6	HANDRAIL-60"-TOP-REV22
24	100-012760	6	HANDRAIL-60"-MID-REV22
25	100-012881	2	WALKWAY STIFFENER-END BRACKET-20"-REV22
26	300-012745	6	SUB ASSY-HANDRAIL-VERTICAL-DP-DPXGT-REV22

MASS:		511.506		PART NO.:		035-012673	
				DESCRIPTION:		KIT-SIDE WALKWAY-30FT-REV22	
				MODELED BY:		M. LANTZER	
				THICKNESS:			
				MATERIAL:			
				SCALE:	0.046	DELUX MFG. CO. KEARNEY, NE	
				DATE:	Feb-17-23		
ECO#	LET	DESCRIPTION	DATE	USED ON:			
		TOLERANCE:	DECIMAL ±.010	FRACTION ±1/32	ANGLE ±°	UNLESS OTHERWISE SPECIFIED	

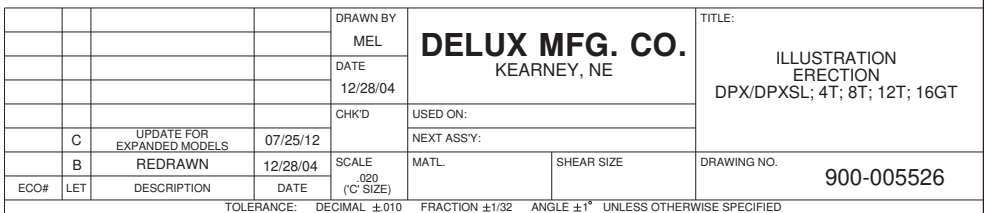
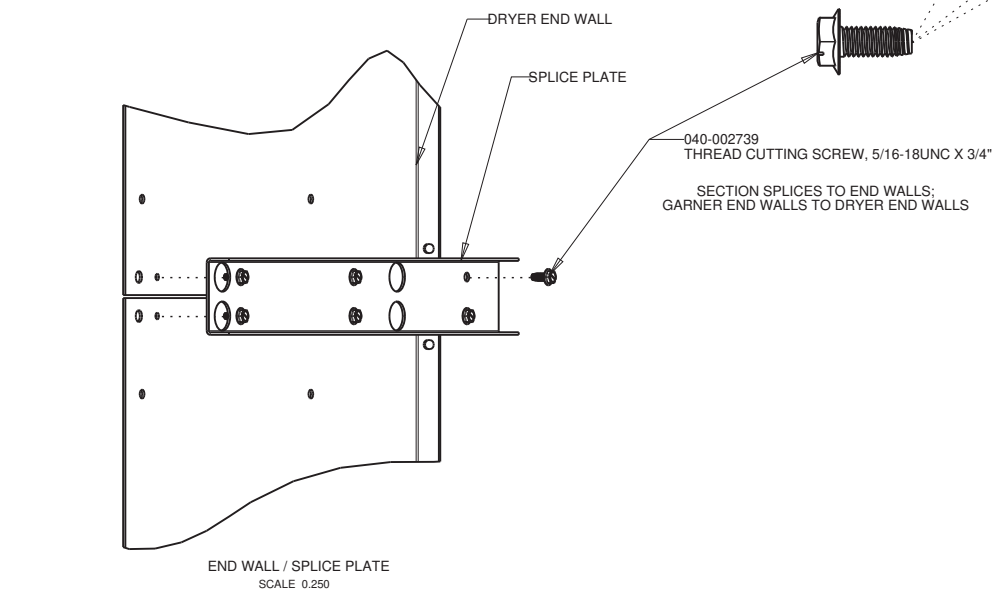


SLIP EACH 'SUB-ASSY-HANDRAIL-VERTICAL' (26)
OVER EACH INTERMEDIATE WALKWAY BRACKET (9).



ITEM	PART NUMBER	QTY	DESCRIPTION
1	040-001450	52	SCREW - TCS - HEX - 5/16-18UNC X 1/2
2	040-001459	300	NUT - WHIZ LOCK - 5/16-18UNC
3	040-005321	300	BOLT - WHIZ LOCK - 5/16-18UNC X 3/4"
4	100-012681	4	HANDRAIL-VERTICAL-DP-DPXGT-REV22
5	100-012692	18	WALKWAY MOUNT ANGLE-20" SIDE-REV22
6	100-012693	1	HANDRAIL-19"-TOP-REV22
7	100-012694	1	HANDRAIL-19"-MID-REV22
8	100-012741	9	WALKWAY SUPPORT-SIDE-REV22
9	100-012742	8	WALKWAY BRACKET-20" SIDE-REV22
10	100-012743	9	WALKWAY BRACE-SIDE-REV22
11	100-012746	7	WALKWAY TOE GUARD-60"-SIDE-REV22
12	100-012747	1	WALKWAY TOE GUARD-90"-SIDE-REV22
13	100-012748	1	WALKWAY BRACKET-LADDER END-20" SIDE-REV22
14	100-012749	1	WALKWAY BRACKET-CLOSED END-20" SIDE-REV22
15	100-012750	1	WALKWAY BRACKET ANGLE-LADDER END-REV22
16	100-012752	1	WALKWAY BRACE-LADDER END-REV22
17	100-012753	14	WALKWAY PLANK-10" X 60"-REV22
18	100-012754	2	WALKWAY PLANK-10" X 90"-REV22
19	100-012755	1	HANDRAIL-22"-TOP-REV22
20	100-012756	1	HANDRAIL-22"-MID-REV22
21	100-012757	1	HANDRAIL-30"-TOP-REV22
22	100-012758	1	HANDRAIL-30"-MID-REV22
23	100-012759	8	HANDRAIL-60"-TOP-REV22
24	100-012760	8	HANDRAIL-60"-MID-REV22
25	100-012881	2	WALKWAY STIFFENER-END BRACKET-20"-REV22
26	300-012745	8	SUB ASSY-HANDRAIL-VERTICAL-DP-DPXGT-REV22

MASS:		655.549		PART NO.:		035-012674	
				DESCRIPTION:		KIT-SIDE WALKWAY-40FT-REV22	
				MODELED BY:		M. LANTZER	
				THICKNESS:			
				MATERIAL:			
				SCALE:	0.046	DELUX MFG. CO. KEARNEY, NE	
				DATE:	Feb-17-23		
ECO#	LET	DESCRIPTION	DATE	USED ON:			
		TOLERANCE:	DECIMAL ±.010	FRACTION ±1/32	ANGLE ±1°	UNLESS OTHERWISE SPECIFIED	



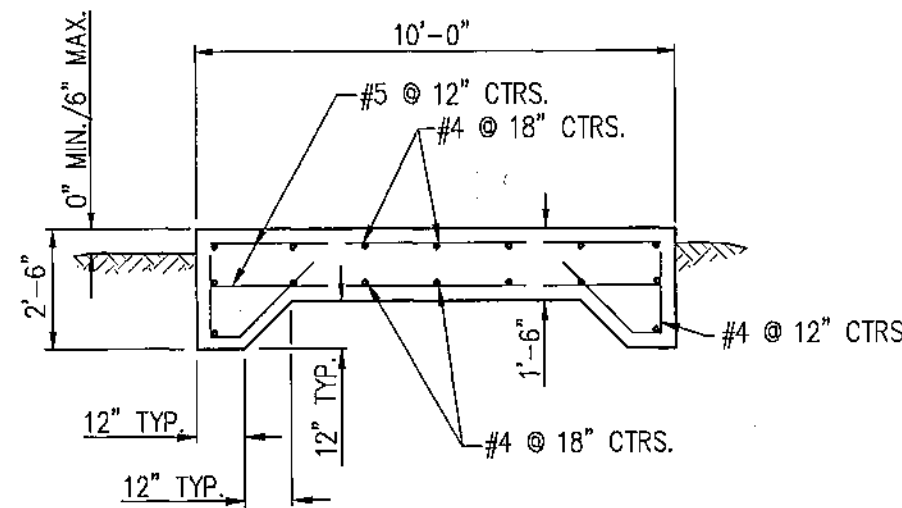
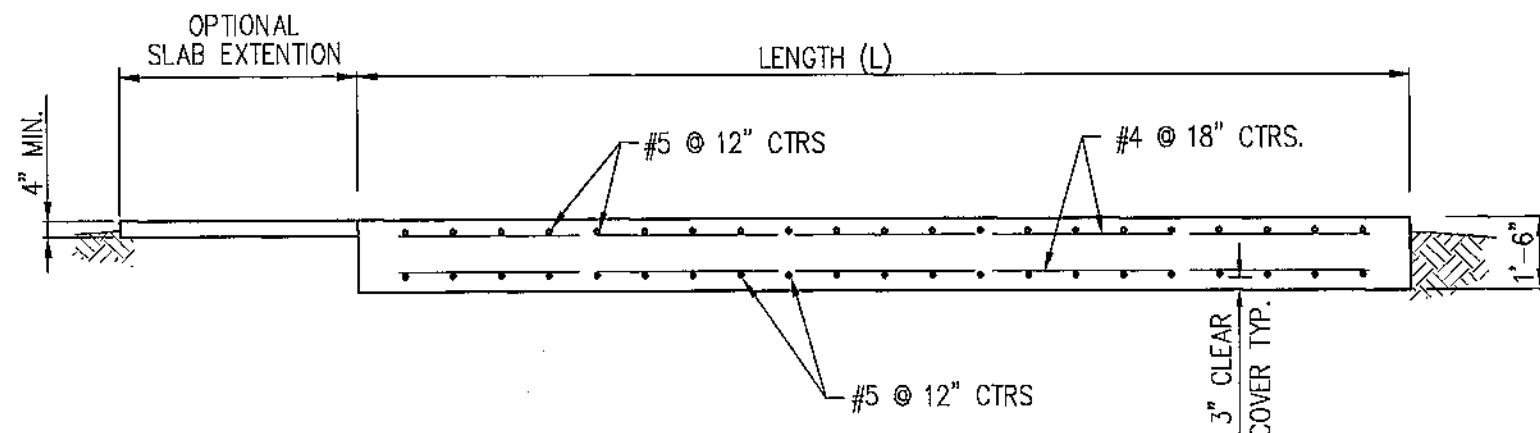
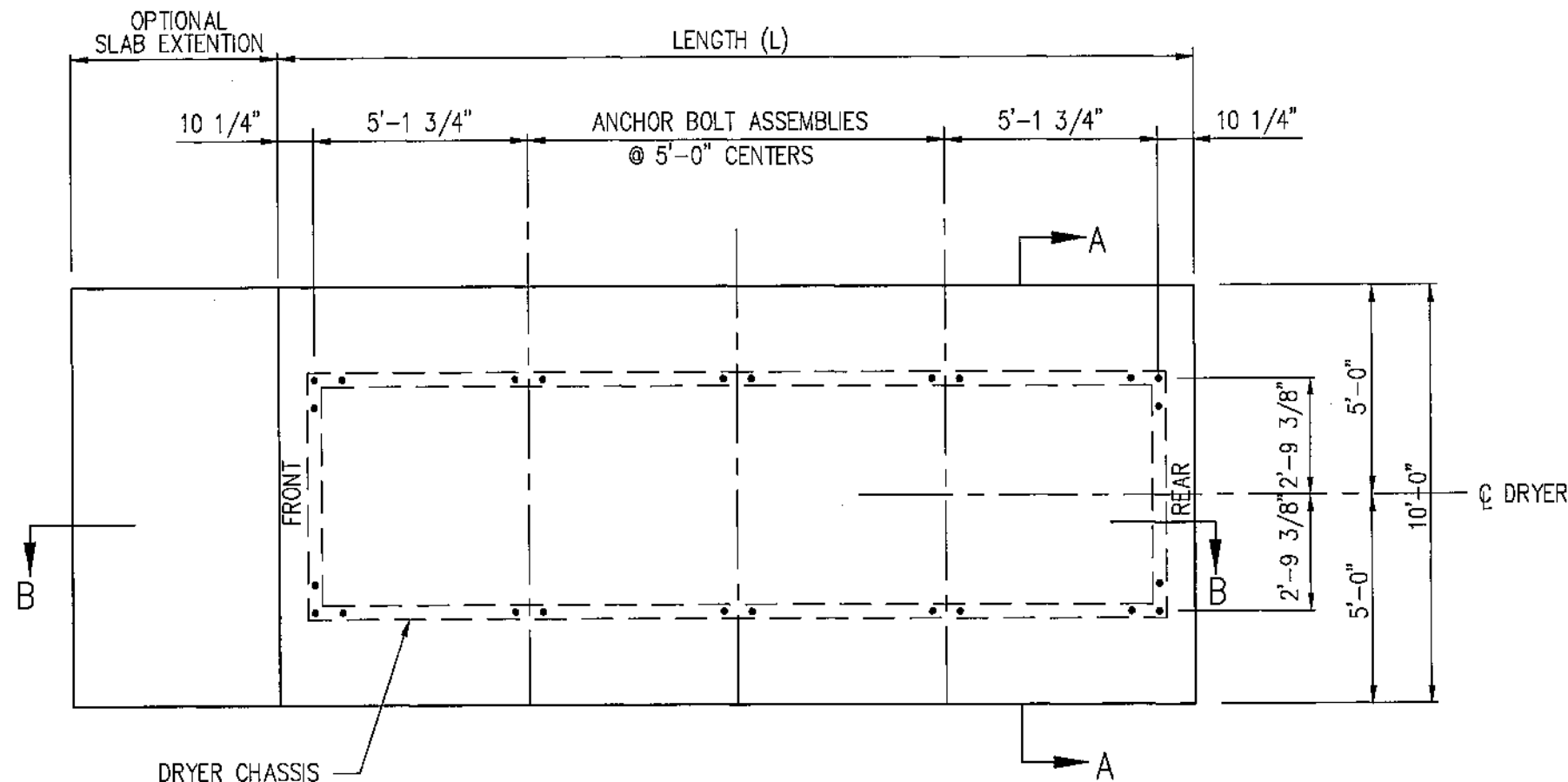
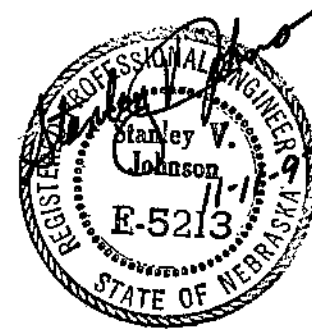
ECN	DATE	CHANGE	AUTH



MILLER &
ASSOCIATES
CONSULTING
ENGINEERS,
P.C.

SCALE:
1/4" = 1'-0"
PROJECT NO.
130-P187-002
DATE:
JANUARY, 1987
DRAWN BY:
BKS
APPROVED BY:
SVJ
DRAWING NO.
6704

- NOTES:
1. "FRONT" INDICATES CONTROL PANEL END OF DRYER.
 2. OPTIONAL SLAB EXTENSION IS FOR CONCRETE WORK AREA AT CONTROL PANEL END. A MINIMUM LENGTH OF 5 FEET SHOULD BE USED.



FOUNDATION PLAN
MSF-DP-DPSL SERIES

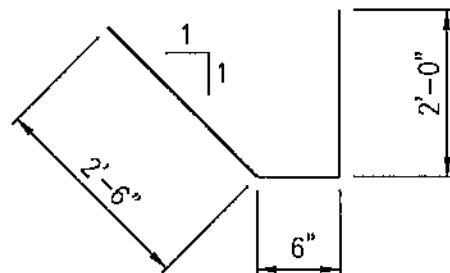
DELUX MFG. CO.
AIR BASE ROAD
KEARNEY, NEBRASKA



DELUX DRAWING NO.
900-006320
SHEET 1 OF 2

MODEL NO.	FOOTING LENGTH (L)	CONCRETE C.Y.	REINF. STEEL
DP 3015	12'	8.0	26-#5x 9'-6"
DPSL 3520			14-#4x 11'-6"
MSF 31010			26-#4x 5'-0" BENT
MSF 41515			
DP 4025	17'	11.3	36-#5x 9'-6"
DPSL 4530			16-#4x 16'-6"
MSF 62520			36-#4x 5'-0" BENT
MSF 72525			
DP 6030	22'	14.7	46-#5x 9'-6"
DPSL 7040			16-#4x 21'-6"
			46-#4x 5'-0" BENT
DP 7550	27'	18.0	56-#5x 9'-6"
DPSL 8560			16-#4x 26'-6"
			56-#4x 5'-0" BENT
DP 9045	32'	21.3	66-#5x 9'-6"
DPSL 10560			16-#4x 31'-6"
			66-#4x 5'-0" BENT
DP 12060	42'	28.0	86-#5x 9'-6"
DPSL 14080			16-#4x 41'-6"
			86-#4x 5'-0" BENT

NOTES:
 QUANTITY CONCRETE SHOWN IN THIS TABLE IS BASED ON THE NEAT FOOTING DIMENSIONS AND IS PROVIDED FOR INFORMATION ONLY. ACTUAL QUANTITY REQUIRED MAY VARY BASED ON EXCAVATION DIMENSIONS; OPTIONAL SLAB EXTENSION AND YIELD OF CONCRETE SUPPLIED.



BENDING DIAGRAM
 FOR #4 REBAR

ECN	DATE	CHANGE	AUTH
	9/30/98	ADDED MODEL No.s DPSL & MSF	SKJ



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ASSOCIATES
CONSULTING
ENGINEERS,
P.C.

SCALE:

PROJECT NO.
130-P167-002

DATE:
JANUARY, 1987

DRAWN BY:
BKS

APPROVED BY:
SVJ

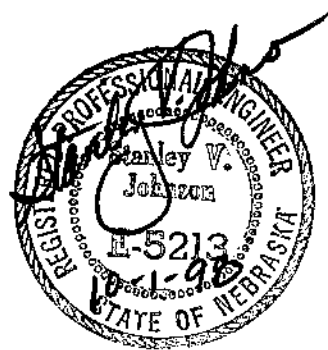
DRAWING NO.
6803

GENERAL NOTES

- THIS FOOTING IS DESIGNED IN ACCORDANCE WITH THE 1994 UNIFORM BUILDING CODE. BASIC WIND SPEED IS 80 MPH, EXPOSURE C.
- FOOTINGS ARE DESIGNED FOR THE SPECIFIC MODEL NUMBER LISTED WITH A 4 FOOT MAXIMUM LEG EXTENSION.
- ANCHORS SHALL BE 5/8" DOUBLE CONE ANCHORS AS MANUFACTURED BY RAWLPLUG CO. INC. OR EQUAL. HOLES FOR ANCHORS WILL BE DRILLED AFTER DRYER IS SET. PROVIDE 2"x 2"x 1/4" PLATE WASHERS FOR EACH ANCHOR.
- DRYER MUST BE LEVEL ALONG LENGTH AND WIDTH AT ALL TIMES DURING DRYING PROCESS.
- CONCRETE SHALL HAVE A MINIMUM 28 DAY STRENGTH OF 3000 PSI.
- REINFORCING STEEL SHALL BE ASTM A615 GRADE 60.
- MINIMUM SOIL BEARING CAPACITY SHALL BE 1000 PSF.

FOUNDATION PLAN
 MSF-DP-DPSL SERIES

DELUX MFG. CO.
 AIR BASE ROAD
 KEARNEY, NEBRASKA

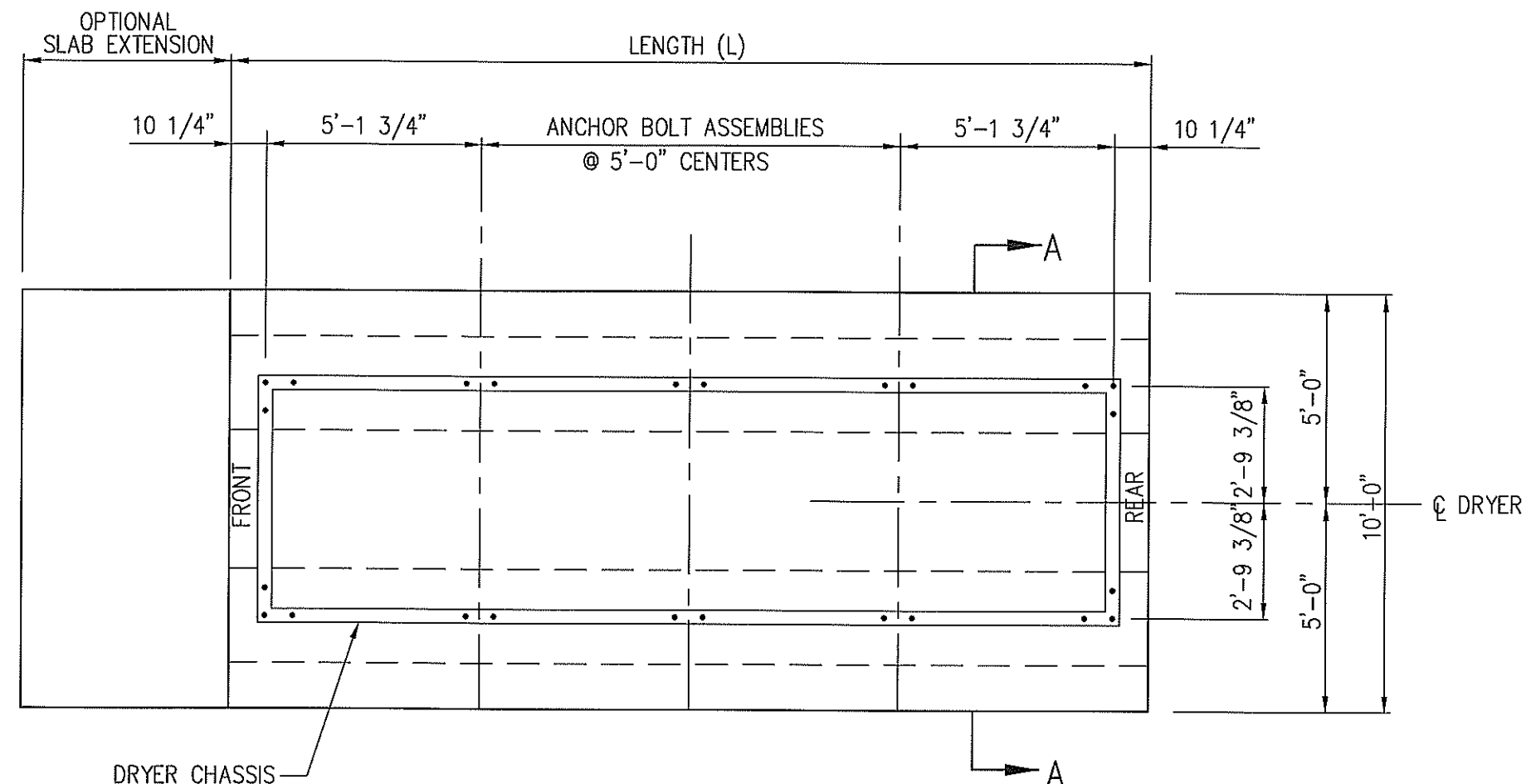




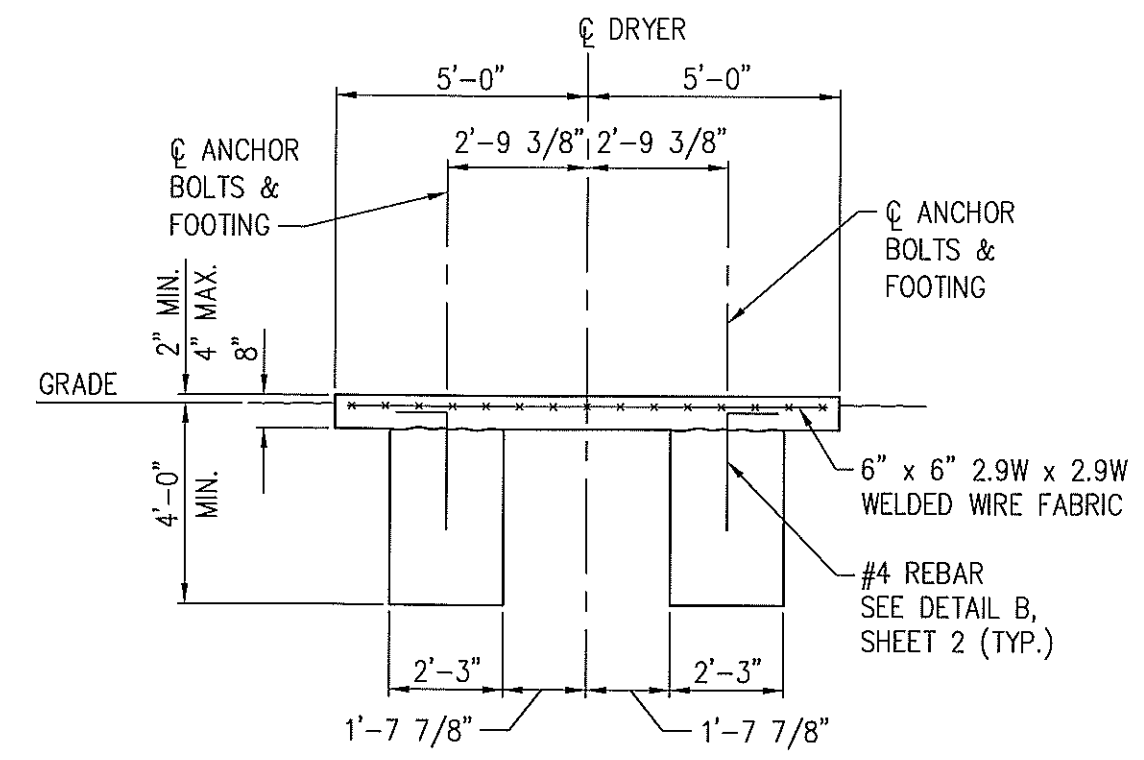
DELUX

DELUX DRAWING NO.
900-006320

SHEET 2 OF 2



PLAN VIEW



SECTION A-A

ECN	DATE	CHANGE	AUTH

- NOTES:
1. "FRONT" INDICATES CONTROL PANEL END OF DRYER.
 2. OPTIONAL SLAB EXTENSION IS FOR CONCRETE WORK AREA AT CONTROL PANEL END. A MINIMUM LENGTH OF 5 FEET SHOULD BE USED.

GENERAL NOTES

1. THIS FOOTING IS DESIGNED IN ACCORDANCE WITH THE 2004 INTERNATIONAL BUILDING CODE. BASIC WIND SPEED IS 90 MPH, EXPOSURE C.
2. FOOTINGS ARE DESIGNED FOR THE SPECIFIC MODEL NUMBER LISTED WITH A 4 FOOT MAXIMUM LEG EXTENSION.
3. DRYER MUST BE LEVEL ALONG LENGTH AND WIDTH AT ALL TIMES DURING DRYING PROCESS.
4. CONCRETE SHALL HAVE A MINIMUM 28 DAY STRENGTH OF 3000 PSI.
5. REINFORCING STEEL SHALL BE ASTM A615 GRADE 60.
6. ANCHOR BOLTS SHALL BE 5/8"x 6" ALL THREAD RODS WITH HEX NUT AND WASHER MEETING THE REQUIREMENTS OF ASTM A307. DRILL 3/4"Ø x 6" HOLES IN CONCRETE THROUGH DRYER BASE PLATE. USE SIMPSON EPOXY-TIE ADHESIVE OR EQUAL TO BOND ANCHOR BOLTS IN CONCRETE.
7. MINIMUM SOIL BEARING CAPACITY SHALL BE 1800 PSF.
8. THE 8" REINFORCED SLAB MAY BE EXTENDED BEYOND THE LIMITS SHOWN FOR ADDITIONAL SERVICE AREA.



**MILLER & ASSOCIATES
CONSULTING ENGINEERS,
P.C.**

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SCALE:
1/4" = 1'-0"

PROJECT NO.
130-P167-006

DATE:
APRIL, 2007

DRAWN BY:
DDM

APPROVED BY:
SWJ

DRAWING NO.

FOUNDATION PLAN

DPX-DPXSL SERIES

DELUX MFG. CO.

AIR BASE ROAD

KEARNEY, NEBRASKA



DELUX DRAWING NO.
900-006321

SHEET 1 OF 2

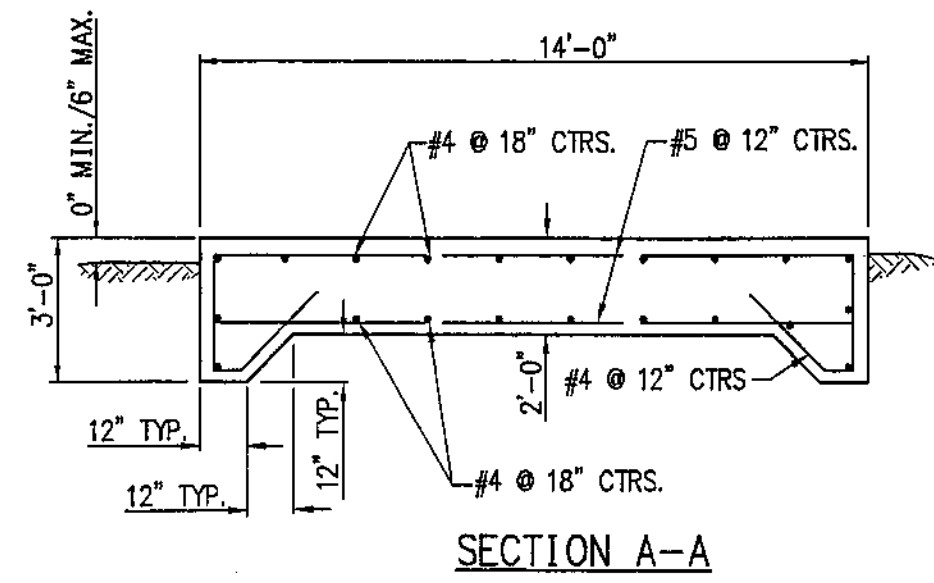
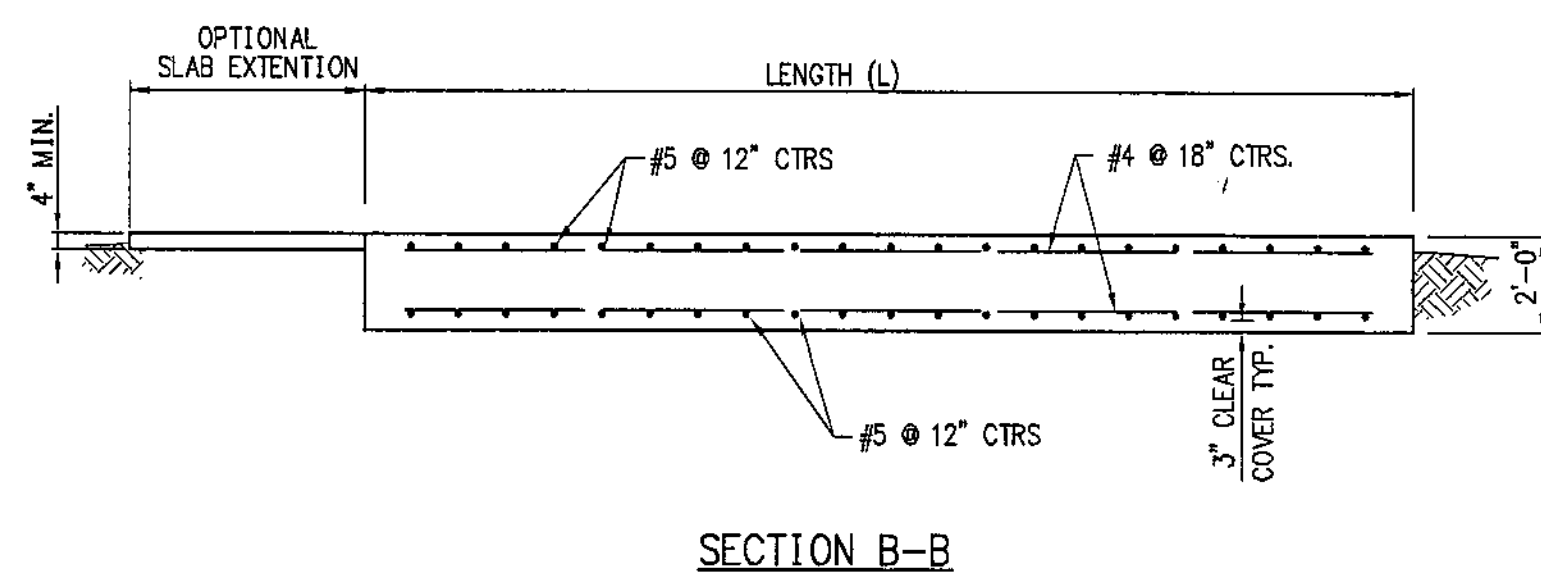
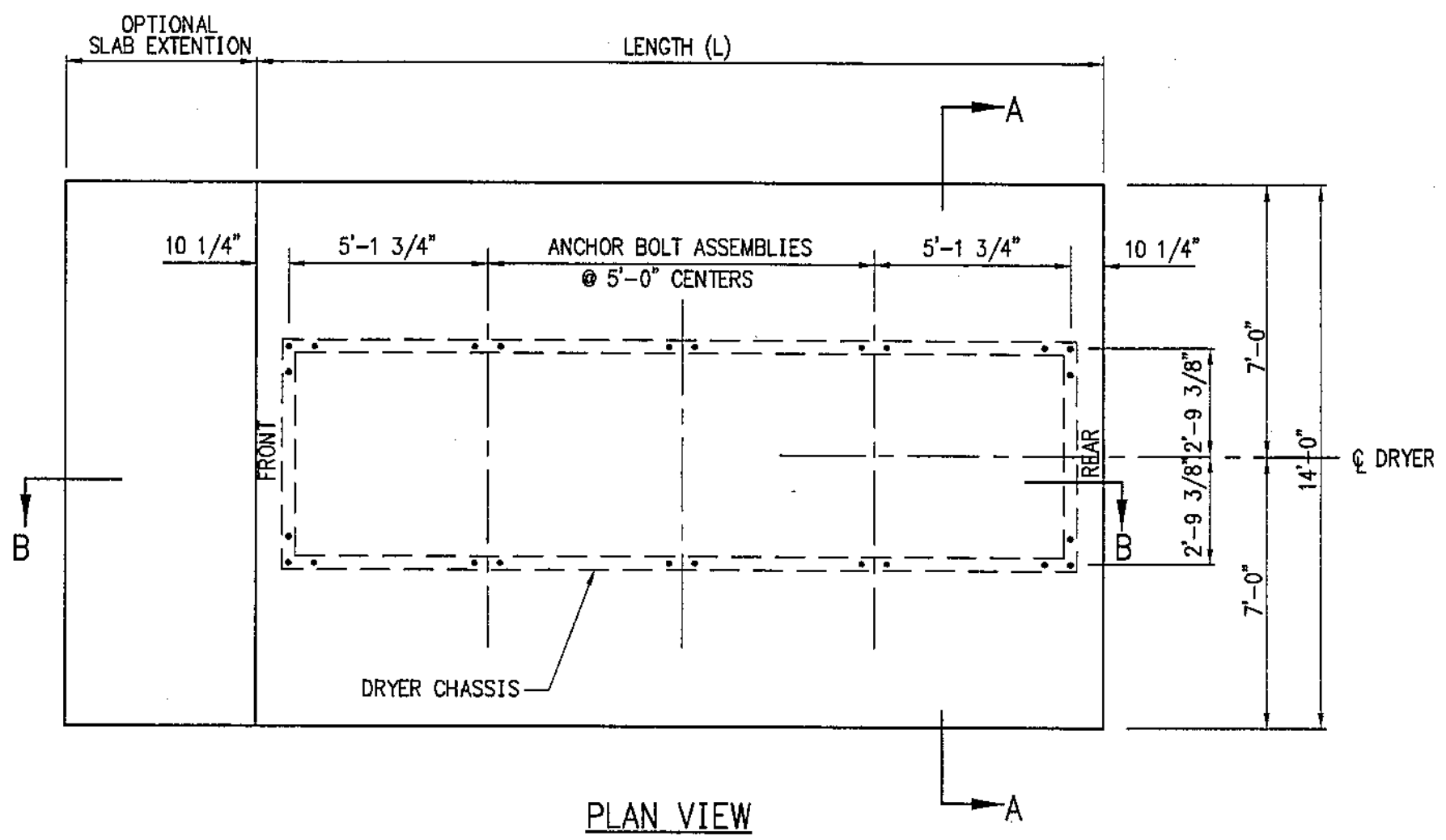
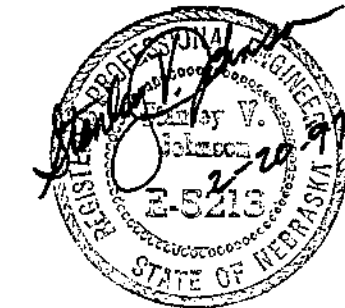
ECN	DATE	CHANGE	AUTH



MILLER &
ASSOCIATES
CONSULTING
ENGINEERS,
P.C.

SCALE:
1/4" = 1'-0"
PROJECT NO.
130-P187-002
DATE:
JANUARY, 1997
DRAWN BY:
BKS
APPROVED BY:
SW
DRAWING NO.
8806

- NOTES:
1. "FRONT" INDICATES CONTROL PANEL END OF DRYER.
 2. OPTIONAL SLAB EXTENSION IS FOR CONCRETE WORK AREA AT CONTROL PANEL END. A MINIMUM LENGTH OF 5 FEET SHOULD BE USED.



TITLE

FOUNDATION PLAN

DPX4T SERIES

DELUX MFG. CO.

AIR BASE ROAD

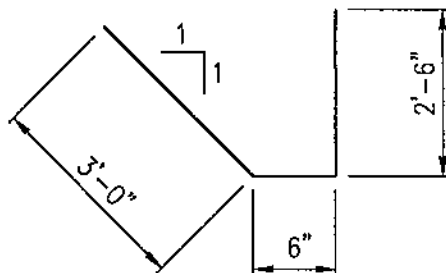
KEARNEY, NEBRASKA



DELUX DRAWING NO.
900-006322
SHEET 1 OF 2

MODEL NO.	FOOTING LENGTH (L)	CONCRETE C.Y.	REINF. STEEL	ANCHOR BOLT ASSEMBLIES	
				CORNER	SIDE
DPX4T 5630	12'	13.8	26-#5x 13'-6" 22-#4x 11'-6" 26-#4x 6'-0" BENT	4	2
DPX4T 8460	17'	19.5	36-#5x 13'-6" 22-#4x 16'-6" 36-#4x 6'-0" BENT	4	4
DPX4T 11260	22'	25.3	46-#5x 13'-6" 22-#4x 21'-6" 46-#4x 6'-0" BENT	4	6
DPX4T 140100	27'	31.0	56-#5x 13'-6" 22-#4x 26'-6" 56-#4x 6'-0" BENT	4	8
DPX4T 16890	32'	37.4	66-#5x 13'-6" 22-#4x 31'-6" 66-#4x 6'-0" BENT	4	10
DPX4T 224120	42'	48.2	86-#5x 13'-6" 22-#4x 41'-6" 86-#4x 6'-0" BENT	4	14

NOTES:
 QUANTITY OF CONCRETE SHOWN IN THIS TABLE IS BASED ON THE NEAT FOOTING DIMENSIONS AND IS PROVIDED FOR INFORMATION ONLY. ACTUAL QUANTITY REQUIRED MAY VARY BASED ON EXCAVATION DIMENSIONS, OPTIONAL SLAB EXTENSION AND YIELD OF CONCRETE SUPPLIED.



BENDING DIAGRAM
 FOR #4 REBAR

ECN	DATE	CHANGE	AUTH
	9/30/98	REVISE MODEL No. w/ DPX4T	



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 P.C.

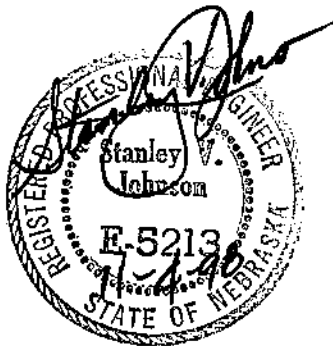
SCALE:
 PROJECT NO.
 130-P157-002
 DATE:
 JANUARY, 1997
 DRAWN BY:
 BKS
 APPROVED BY:
 SVJ
 DRAWING NO.
 5807

GENERAL NOTES

- THIS FOOTING IS DESIGNED IN ACCORDANCE WITH THE 1994 UNIFORM BUILDING CODE. BASIC WIND SPEED IS 80 MPH, EXPOSURE C.
- FOOTINGS ARE DESIGNED FOR THE SPECIFIC MODEL NUMBER LISTED WITH A 4 FOOT MAXIMUM LEG EXTENSION.
- ANCHORS SHALL BE 3-3/4" ϕ ANCHOR BOLTS FOR EACH CORNER LEG EXTENSION AND 2-3/4" ϕ ANCHOR BOLT FOR EACH SIDE LEG EXTENSION. PROVIDE 2" x 2" x 1/4" PLATE WASHER FOR EACH ANCHOR BOLT.
- DRYER MUST BE LEVEL ALONG LENGTH AND WIDTH AT ALL TIMES DURING DRYING PROCESS.
- CONCRETE SHALL HAVE A MINIMUM 28 DAY STRENGTH OF 3000 PSI.
- REINFORCING STEEL SHALL BE ASTM A615 GRADE 60.
- MINIMUM SOIL BEARING CAPACITY SHALL BE 1300 PSF.

FOUNDATION PLAN
 DPX4T SERIES

DELUX MFG. CO.
 AIR BASE ROAD
 KEARNEY, NEBRASKA



DELUX DRAWING NO.
 900-006322
 SHEET 2 OF 2

ECN	DATE	CHANGE	AUTH



MILLER & ASSOCIATES
CONSULTING
ENGINEERS,
P.C.

SCALE:
1/4" = 1'-0"

PROJECT NO.
130-P167-002

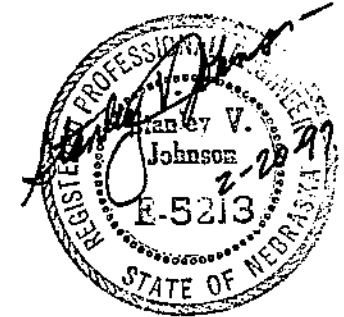
DATE:
JANUARY, 1997

DRAWN BY:
BKS

APPROVED BY:
SHI

DRAWING NO.
6810

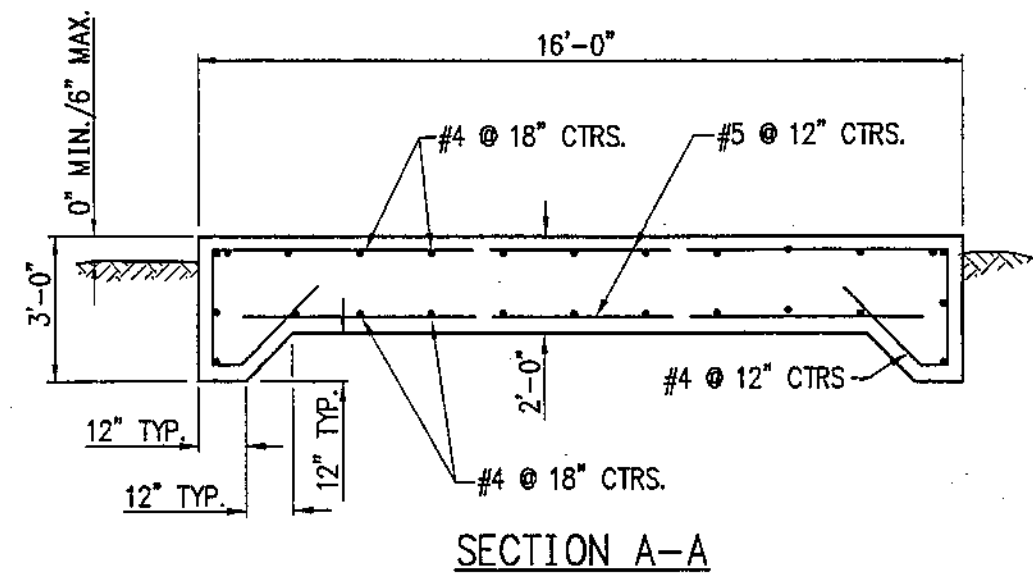
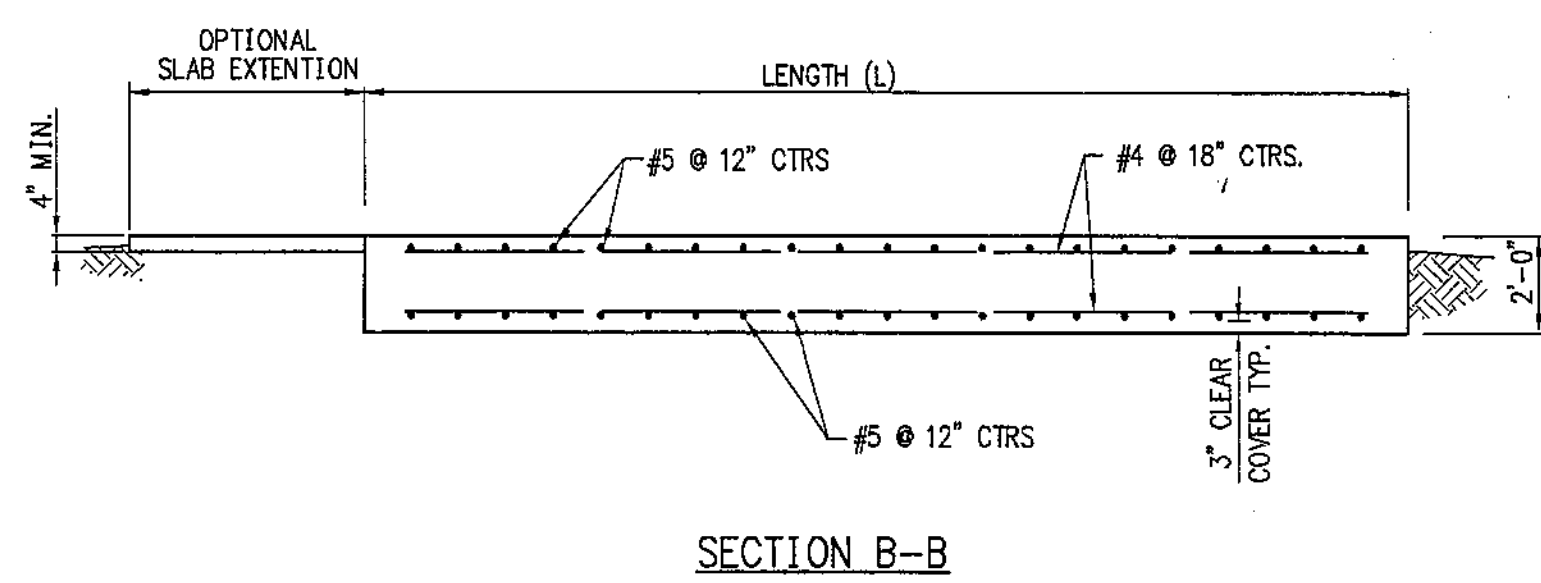
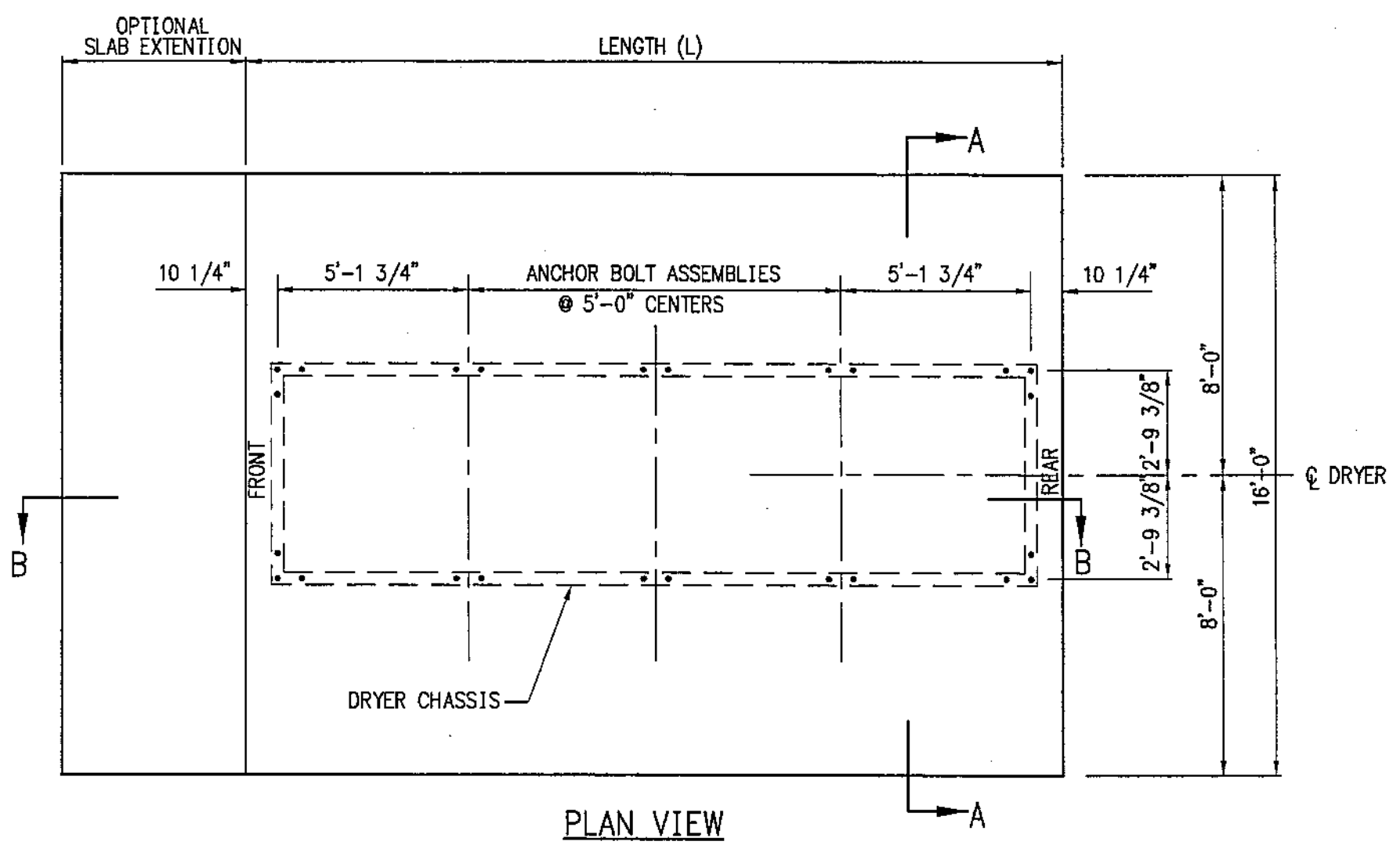
- NOTES:
1. "FRONT" INDICATES CONTROL PANEL END OF DRYER.
 2. OPTIONAL SLAB EXTENSION IS FOR CONCRETE WORK AREA AT CONTROL PANEL END. A MINIMUM LENGTH OF 5 FEET SHOULD BE USED.



FOUNDATION PLAN
DPXST SERIES

DELUX MFG. CO.
AIR BASE ROAD
KEARNEY, NEBRASKA

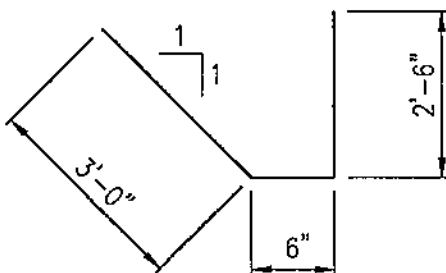
DELUX
DRAWING NO.
900-006323
SHEET 1 OF 2



MODEL NO.	FOOTING LENGTH (L)	CONCRETE C.Y.	REINF. STEEL	ANCHOR BOLT ASSEMBLIES	
				CORNER	SIDE
DPX8T 6440	12'	15.6	26-#5x 15'-6" 24-#4x 11'-6" 26-#4x 6'-0" BENT	4	2
DPX8T 12880	22'	28.5	46-#5x 15'-6" 24-#4x 21'-6" 46-#4x 6'-0" BENT	4	6
DPX8T 160120	27'	35.1	56-#5x 15'-6" 24-#4x 31'-6" 56-#4x 6'-0" BENT	4	8
DPX8T 192120	32'	41.5	66-#5x 15'-6" 24-#4x 31'-6" 66-#4x 6'-0" BENT	4	10
DPX8T 256160	42'	54.4	86-#5x 15'-6" 24-#4x 41'-6" 86-#4x 6'-0" BENT	4	14

NOTES:

QUANTITY OF CONCRETE SHOWN IN THIS TABLE IS BASED ON THE NEAT FOOTING DIMENSIONS AND IS PROVIDED FOR INFORMATION ONLY. ACTUAL QUANTITY REQUIRED MAY VARY BASED ON EXCAVATION DIMENSIONS, OPTIONAL SLAB EXTENSION AND YIELD OF CONCRETE SUPPLIED.



BENDING DIAGRAM
FOR #4 REBAR

ECN	DATE	CHANGE	AUTH
	9/30/98	REVISED MODEL No.s w/ DPX8T ADDED MODEL No. DPX8T 160120	



MILLER &
ASSOCIATES
CONSULTING
ENGINEERS,
P.C.

SCALE: NONE
PROJECT NO. 130-P167-002
DATE: JANUARY, 1997
DRAWN BY: BKS
APPROVED BY: SVJ
DRAWING NO. 8808

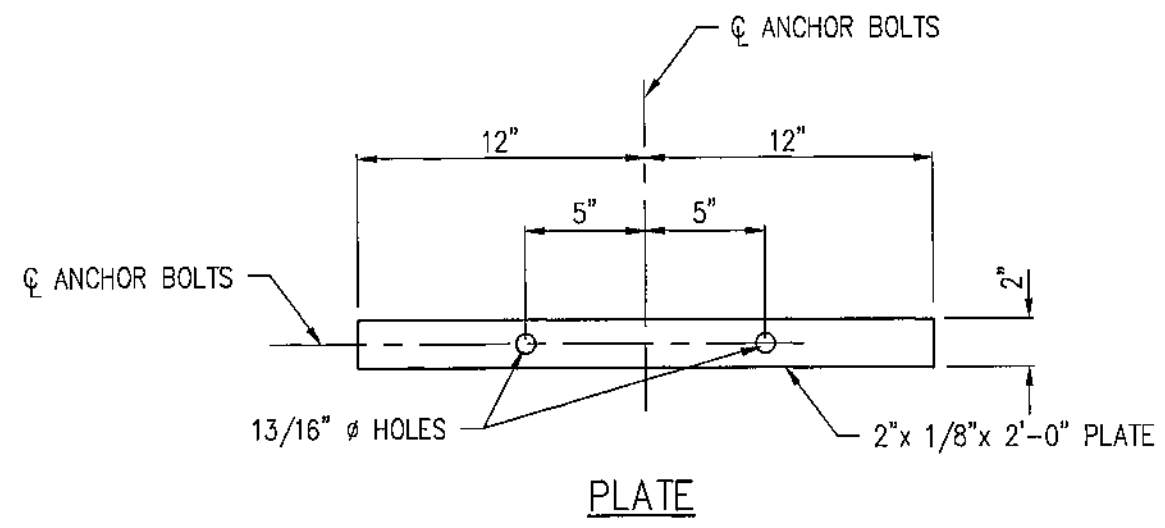
FOUNDATION PLAN
DPX8T SERIES

DELUX MFG. CO.
AIR BASE ROAD
KEARNEY, NEBRASKA

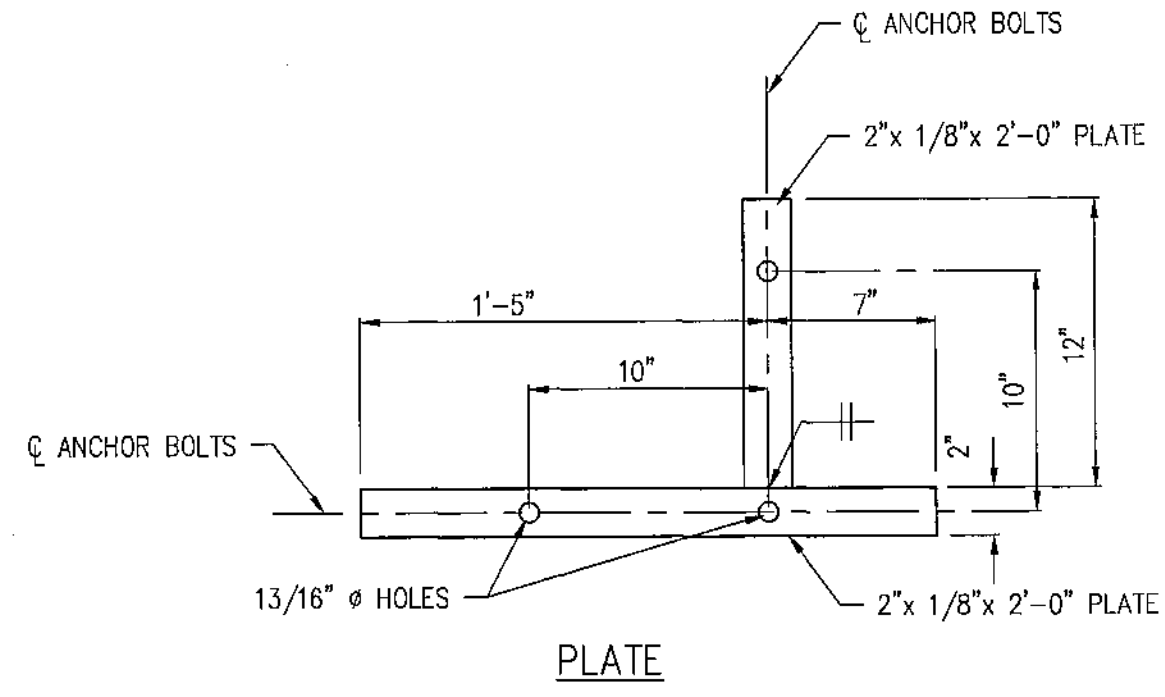


DELUX DRAWING NO. 900-006323
SHEET 2 OF 2

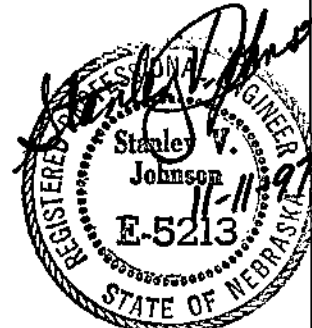
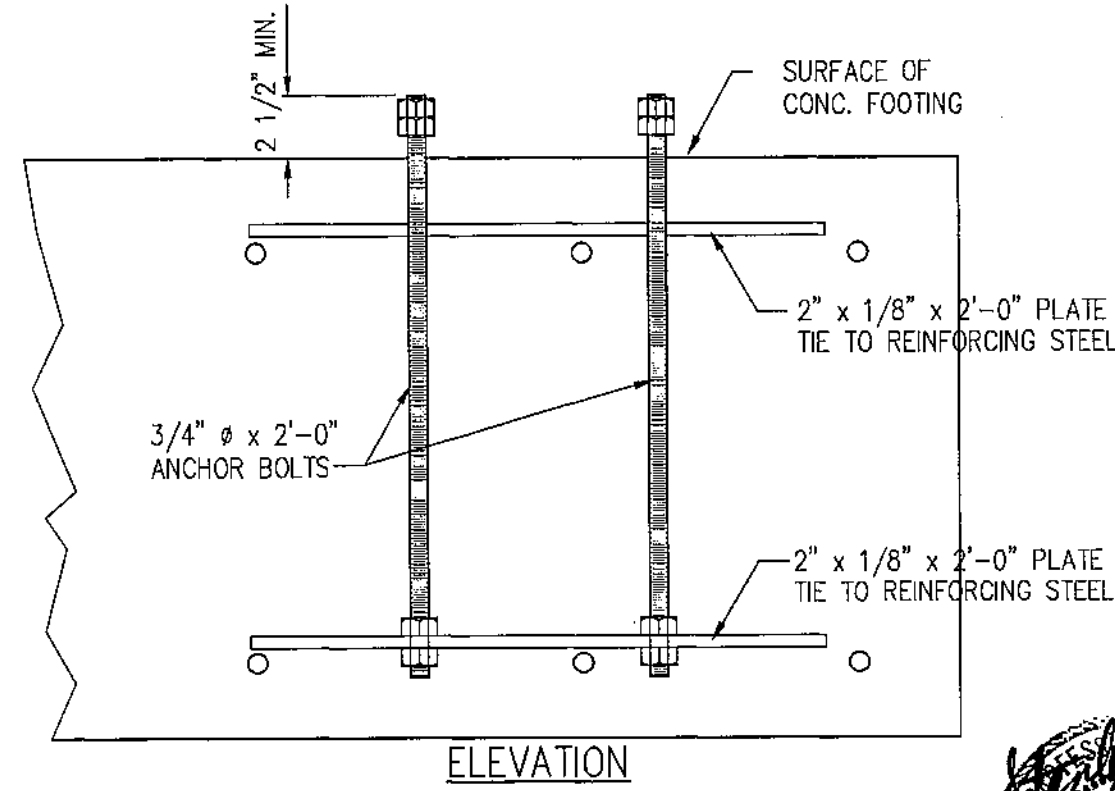
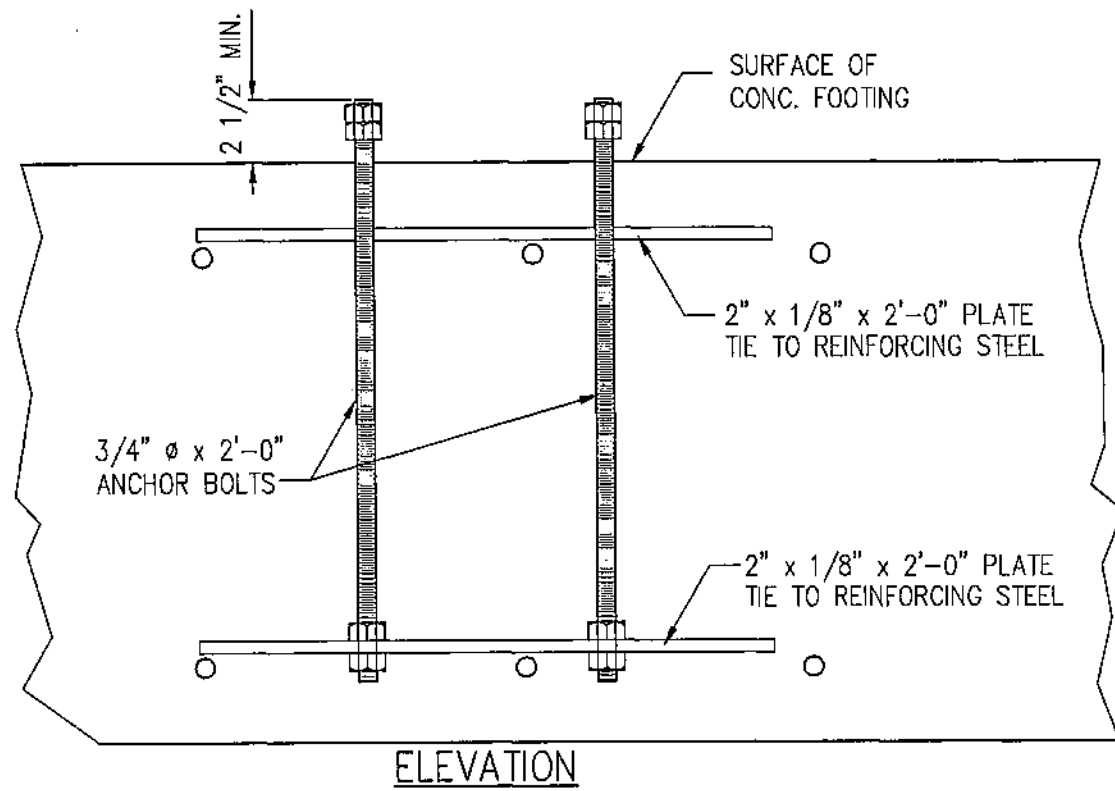
NOV 11, 1987 10:56:32 C:\PROJECTS\1307067\1305HT10



SIDE ANCHOR BOLT ASSEMBLY



CORNER ANCHOR BOLT ASSEMBLY





MILLER & ASSOCIATES
CONSULTING
ENGINEERS,
P.C.

SCALE:

PROJECT NO.
130-P187-002

DATE:
JANUARY, 1987

DRAWN BY:
BKS

APPROVED BY:
SVI

DRAWING NO.
8803H

ANCHORS

DPX4T AND DPX8T SERIES

DELUX MFG. CO.

AIR BASE ROAD
KEARNEY, NEBRASKA



DELUX DRAWING NO.
900-006327

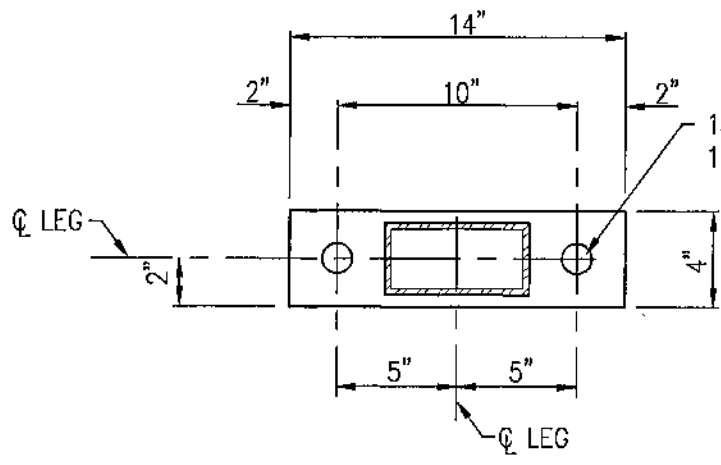
SHEET 1 OF 1

ECN	DATE	CHANGE	AUTH

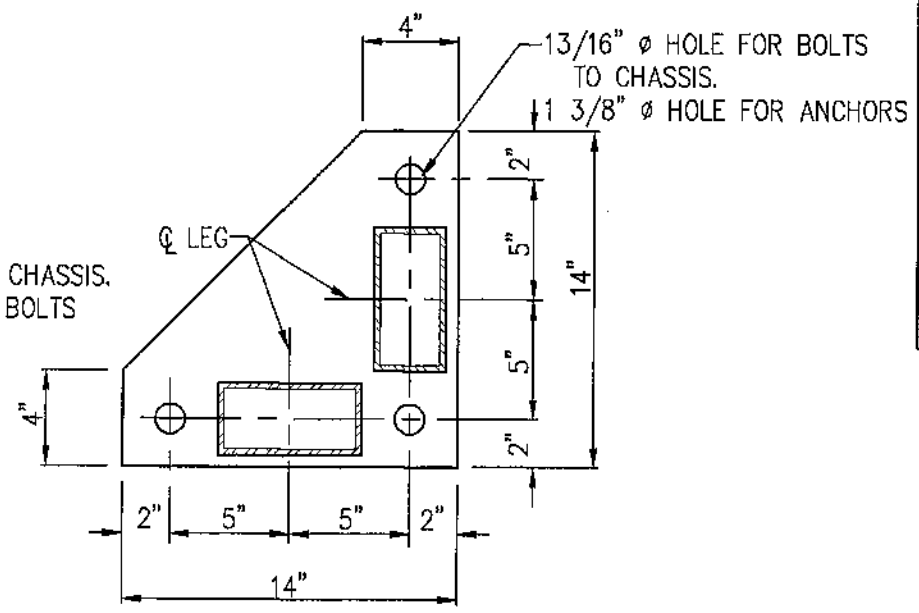


MILLER & ASSOCIATES
CONSULTING
ENGINEERS,
P.C.

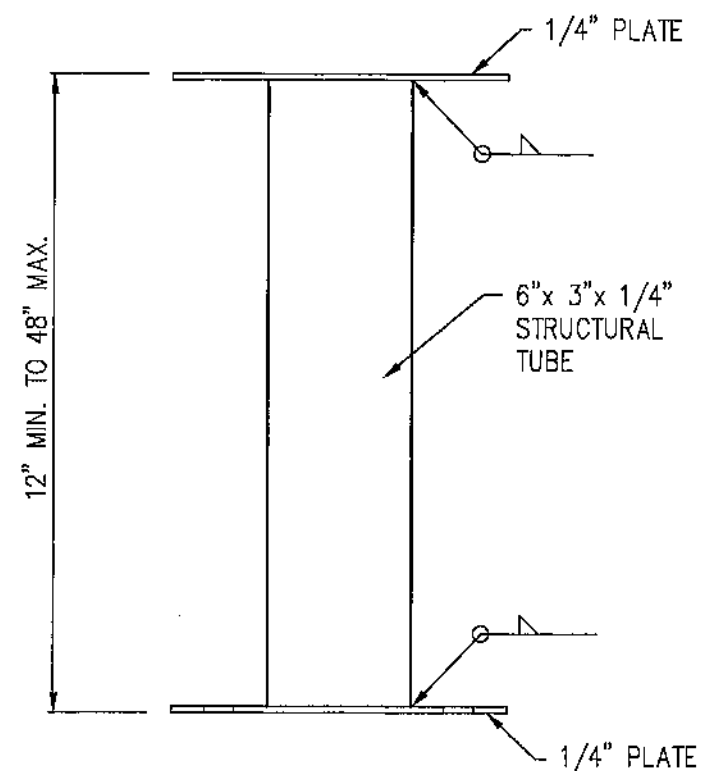
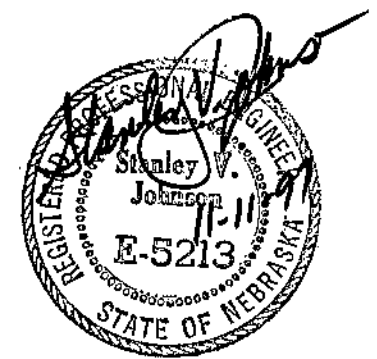
SCALE:
1 1/2" = 1'-0"
PROJECT NO.
130-1167-002
DATE:
JANUARY, 1997
DRAWN BY:
BKS
APPROVED BY:
SWJ
DRAWING NO.
6803C



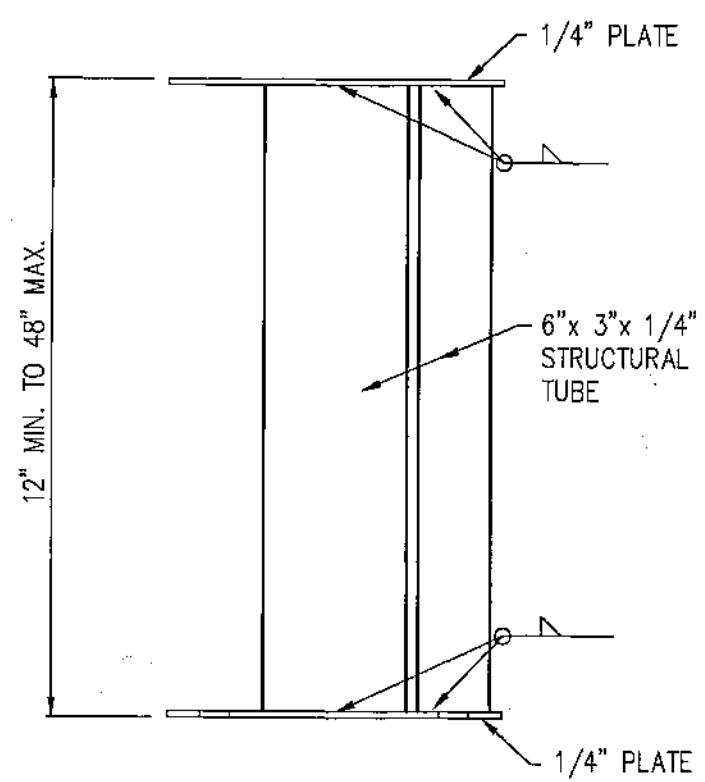
PLAN



PLAN



ELEVATION OF
SIDE LEG EXTENSION



ELEVATION OF
CORNER LEG EXTENSION

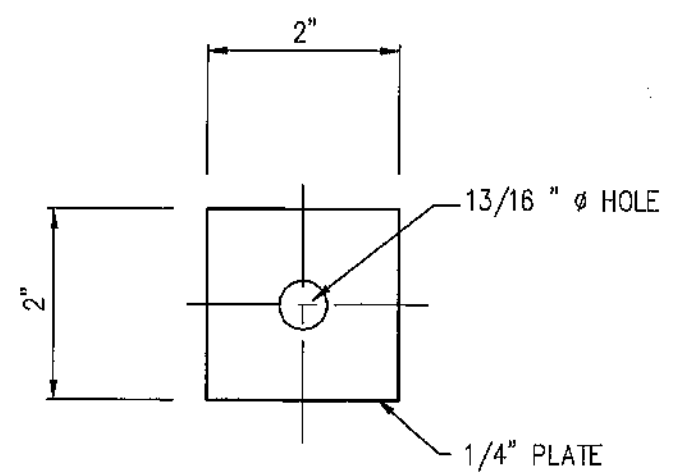
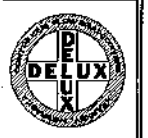


PLATE WASHER
NTS

LEG EXTENSION
DPX4T AND DPX8T SERIES

DELUX MFG. CO.
AIR BASE ROAD
KEARNEY, NEBRASKA

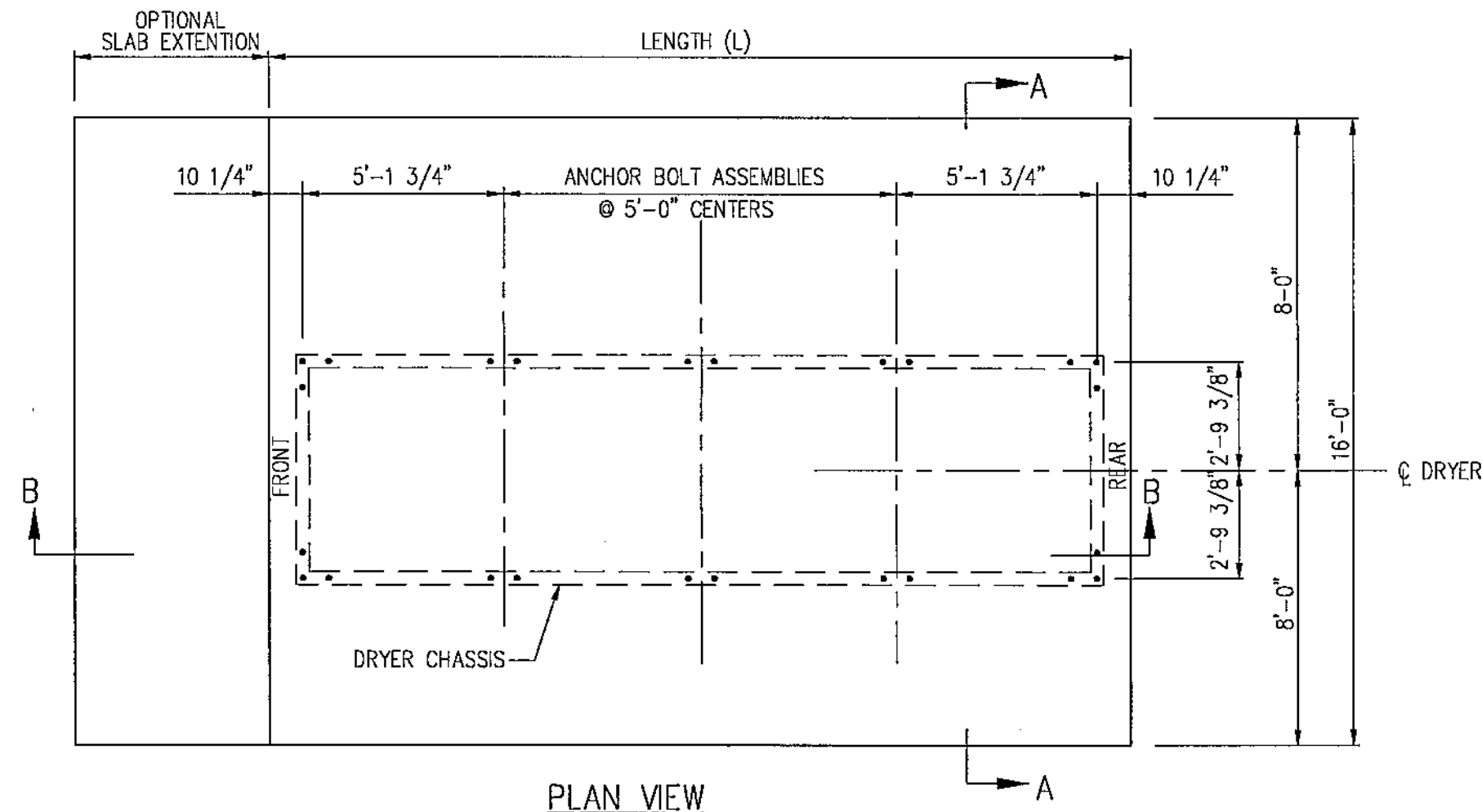


DELUX DRAWING NO.
900-006328
SHEET 1 OF 1

ECN	DATE	CHANGE	AUTH

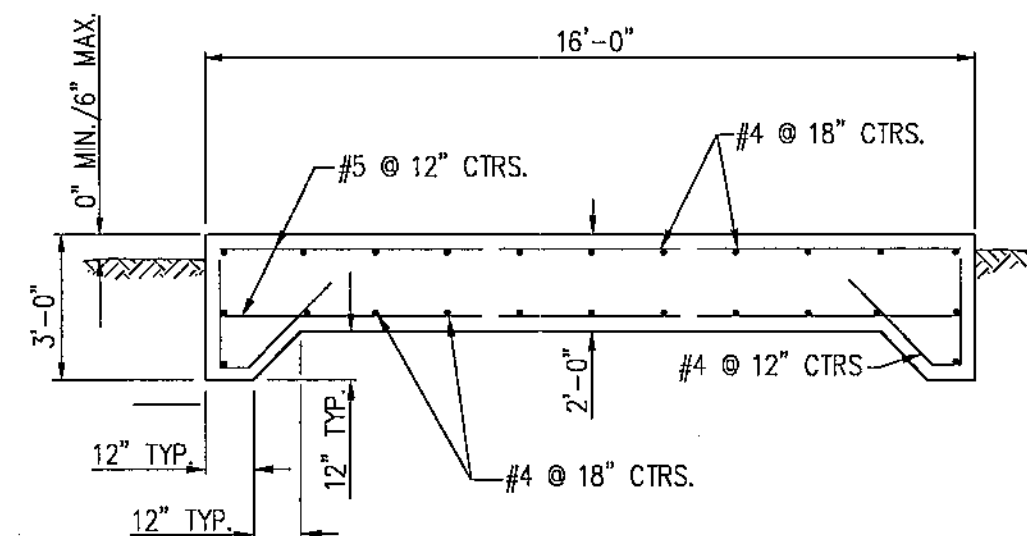
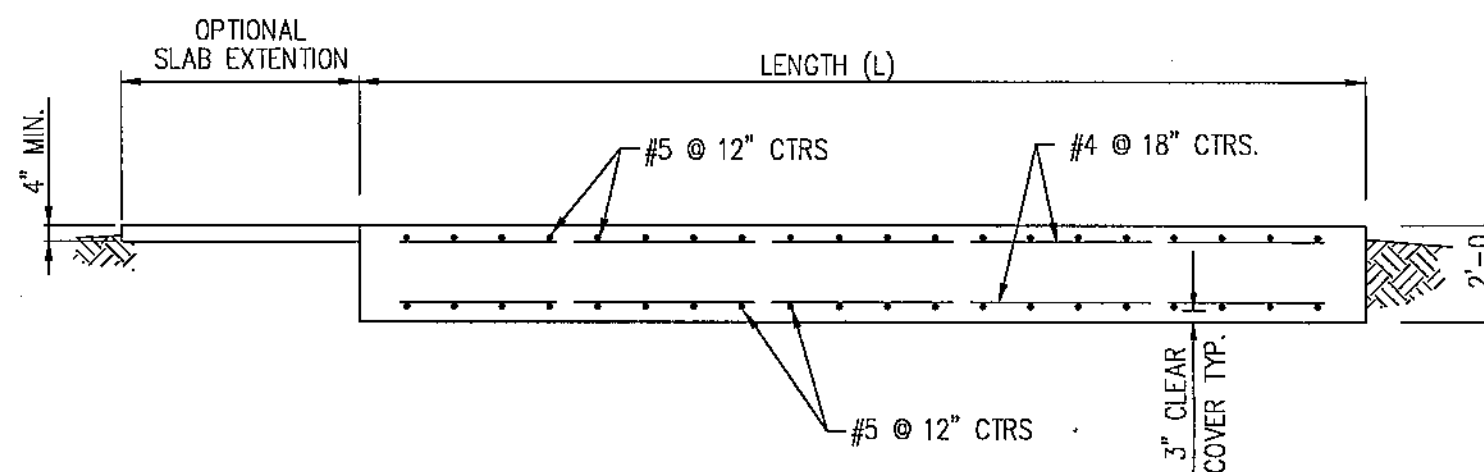
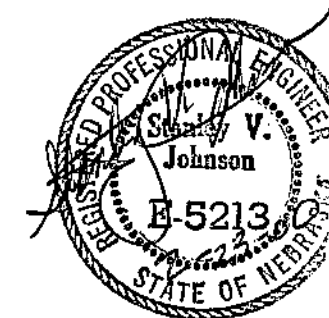
MA
MILLER &
ASSOCIATES
CONSULTING
ENGINEERS,
P.C.

SCALE:
1/4" = 1'-0"
PROJECT NO.
130-P167-003
DATE:
FEBRUARY 2000
DRAWN BY:
CLB
APPROVED BY:
SVJ
DRAWING NO.
9185



NOTES:

1. "FRONT" INDICATES CONTROL PANEL END OF DRYER.
2. OPTIONAL SLAB EXTENSION IS FOR CONCRETE WORK AREA AT CONTROL PANEL END. A MINIMUM LENGTH OF 5 FEET SHOULD BE USED.



FOUNDATION PLAN
DPX12T SERIES

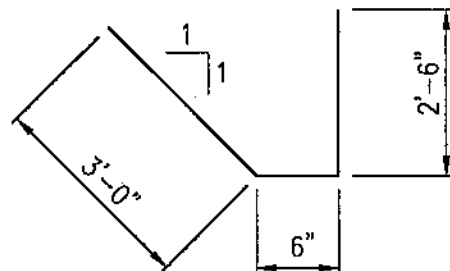
DELUX MFG. CO.
AIR BASE ROAD
KEARNEY, NEBRASKA



DELUX DRAWING NO.
900-007220
SHEET 1 OF 2

MODEL NO.	FOOTING LENGTH (L)	CONCRETE C.Y.	REINF. STEEL	ANCHOR BOLT ASSEMBLIES	
				CORNER	SIDE
DPX12T 7250	12'	15.6	26-#5x 15'-6"	4	2
			24-#4x 11'-6"		
			26-#4x 6'-0" BENT		
DPX12T 10860	17'	22.0	36-#5x 15'-6"	4	4
			24-#4x 16'-6"		
			36-#4x 6'-0" BENT		
DPX12T 144100	22'	28.5	46-#5x 15'-6"	4	6
			24-#4x 21'-6"		
			46-#4x 6'-0" BENT		
DPX12T 175120	27'	35.1	56-#5x 15'-6"	4	8
			24-#4x 26'-6"		
			56-#4x 6'-0" BENT		
DPX12T 216150	32'	41.5	66-#5x 15'-6"	4	10
			24-#4x 31'-6"		
			66-#4x 6'-0" BENT		
DPX12T 288200	42'	54.4	86-#5x 15'-6"	4	14
			24-#4x 41'-6"		
			86-#4x 6'-0" BENT		

NOTES:
 QUANTITY OF CONCRETE SHOWN IN THIS TABLE IS BASED ON THE NEAT FOOTING DIMENSIONS AND IS PROVIDED FOR INFORMATION ONLY. ACTUAL QUANTITY REQUIRED MAY VARY BASED ON EXCAVATION DIMENSIONS, OPTIONAL SLAB EXTENSION AND YIELD OF CONCRETE SUPPLIED.



BENDING DIAGRAM
 FOR #4 REBAR

ECN	DATE	CHANGE	AUTH

MILLER & ASSOCIATES
CONSULTING
ENGINEERS,
P.C.

SCALE: NONE

PROJECT NO. 130-P187-002

DATE: JANUARY, 1997

DRAWN BY: BKS

APPROVED BY: SVJ

DRAWING NO. 9184

GENERAL NOTES

- THIS FOOTING IS DESIGNED IN ACCORDANCE WITH THE 1994 UNIFORM BUILDING CODE. BASIC WIND SPEED IS 80 MPH, EXPOSURE C.
- FOOTINGS ARE DESIGNED FOR THE SPECIFIC MODEL NUMBER LISTED WITH A 4 FOOT MAXIMUM LEG EXTENSION.
- ANCHORS SHALL BE 3-3/4" Ø ANCHOR BOLTS FOR EACH CORNER LEG EXTENSION AND 2-3/4" Ø ANCHOR BOLT FOR EACH SIDE LEG EXTENSION. PROVIDE 2" x 2" x 1/4" PLATE WASHERS FOR EACH ANCHOR BOLT.
- DRYER MUST BE LEVEL ALONG LENGTH AND WIDTH AT ALL TIMES DURING DRYING PROCESS.
- CONCRETE SHALL HAVE A MINIMUM 28 DAY STRENGTH OF 3000 PSI.
- REINFORCING STEEL SHALL BE ASTM A615 GRADE 60.
- MINIMUM SOIL BEARING CAPACITY SHALL BE 1250 PSF.

FOUNDATION PLAN

DPX12T SERIES

DELUX MFG. CO.

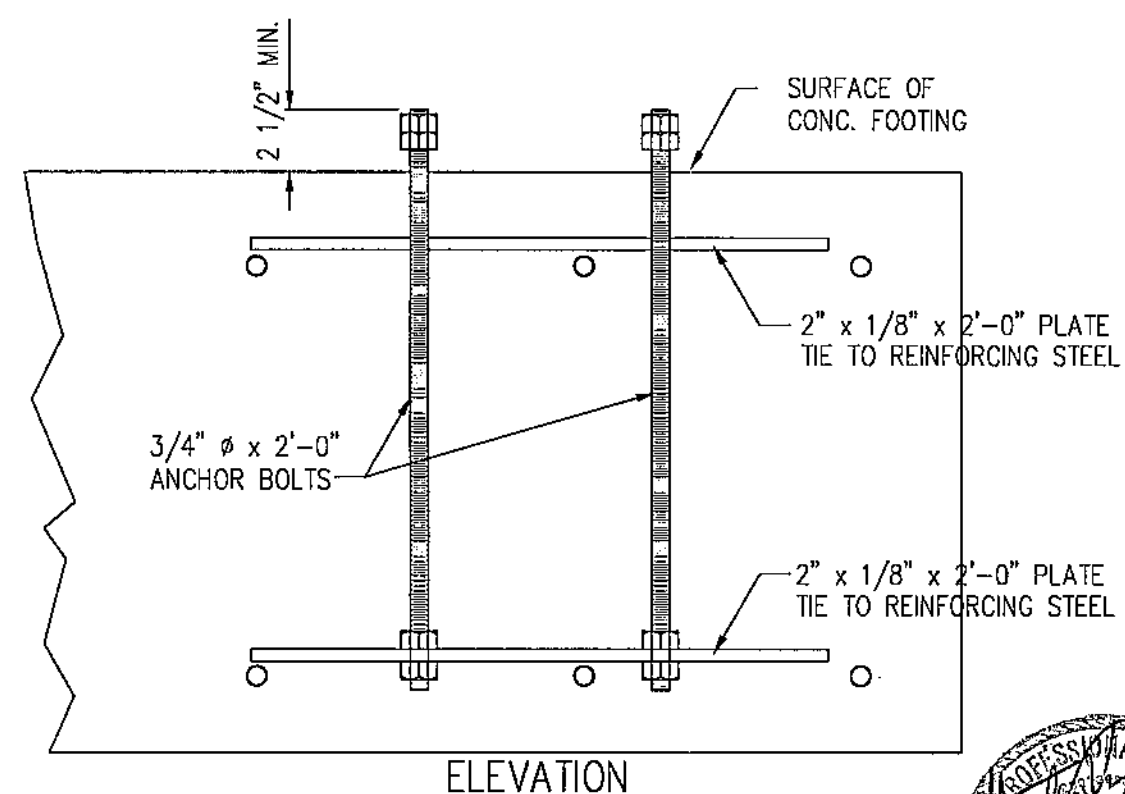
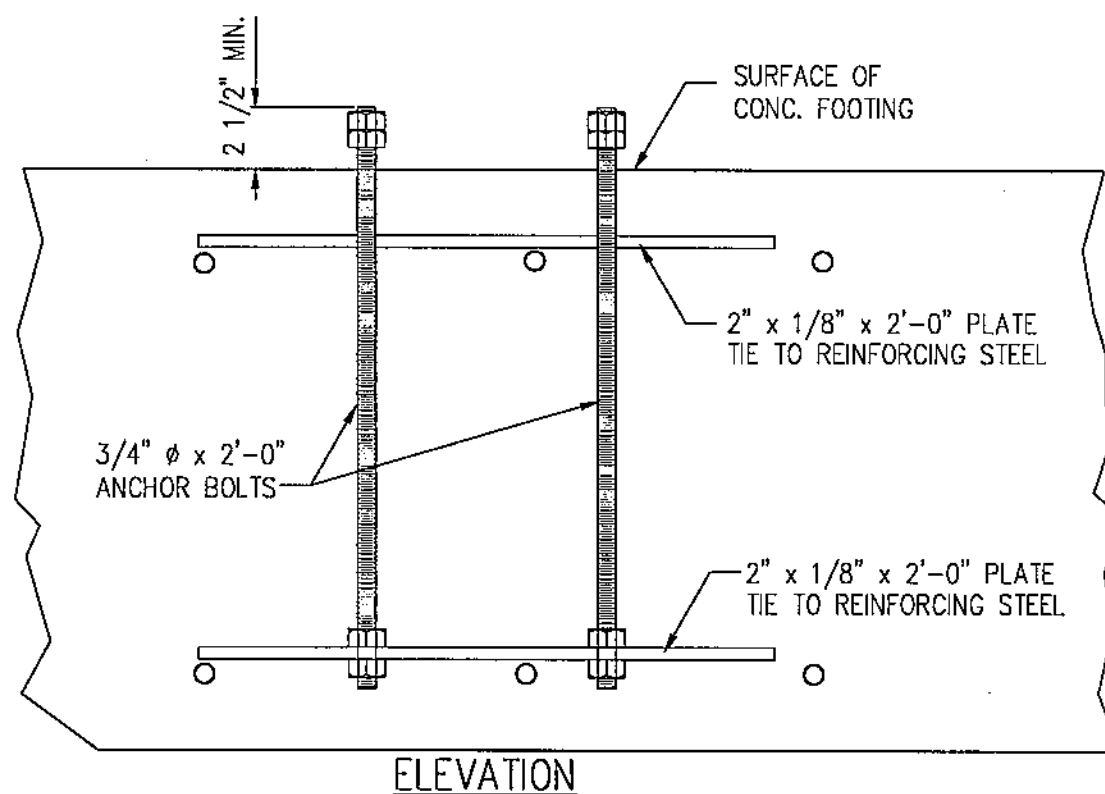
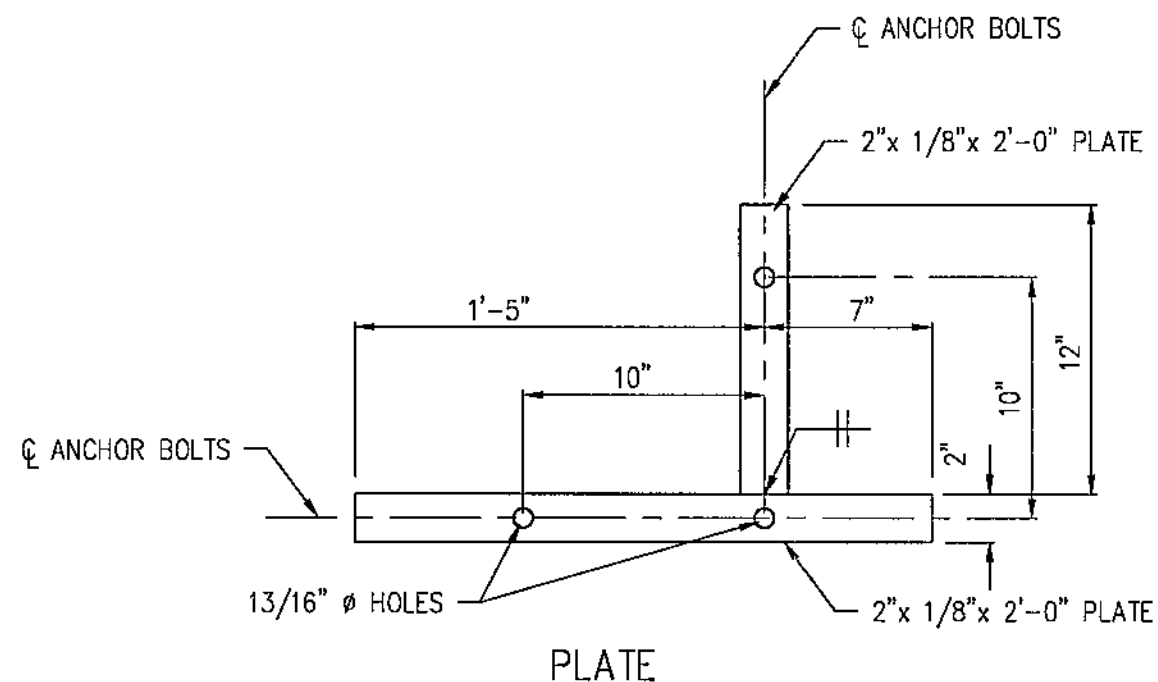
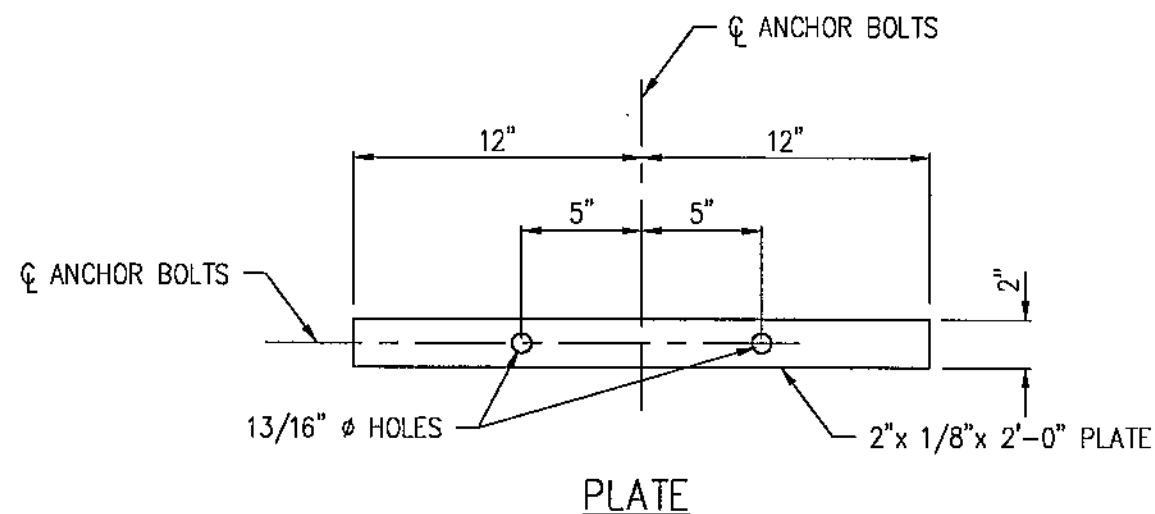
AIR BASE ROAD

KEARNEY, NEBRASKA



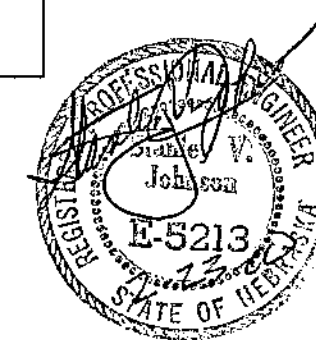
DELUX DRAWING NO. 900-007220

SHEET 2 OF 2



SIDE ANCHOR BOLT ASSEMBLY

CORNER ANCHOR BOLT ASSEMBLY



MA
MILLER &
ASSOCIATES
CONSULTING
ENGINEERS,
P.C.

SCALE:
PROJECT NO.
130-P167-002
DATE:
JANUARY, 1997
DRAWN BY:
BKS
APPROVED BY:
SVJ
DRAWING NO.
9183

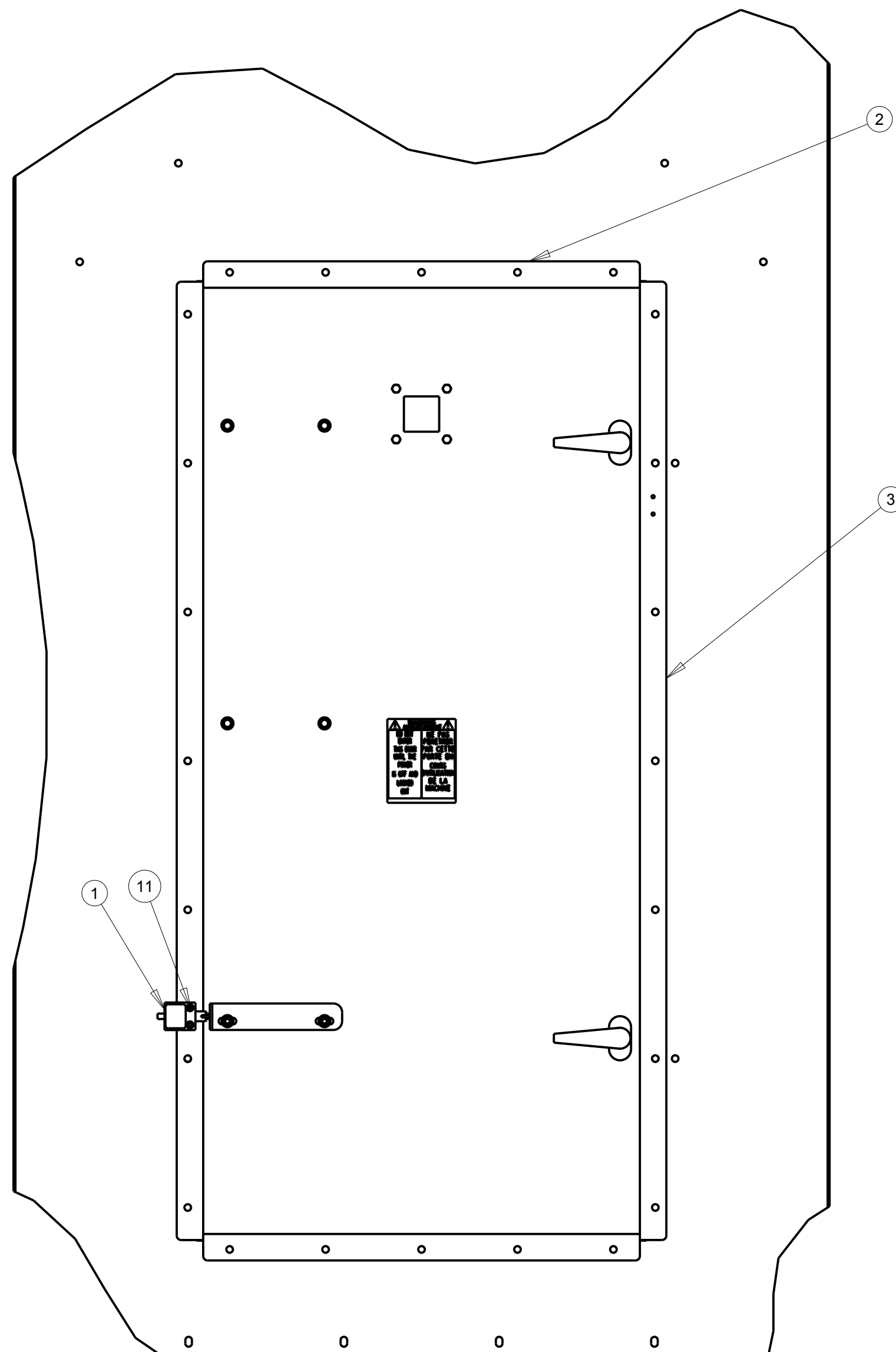
ANCHORS
DPX12T SERIES

DELUX MFG. CO.
AIR BASE ROAD
KEARNEY, NEBRASKA

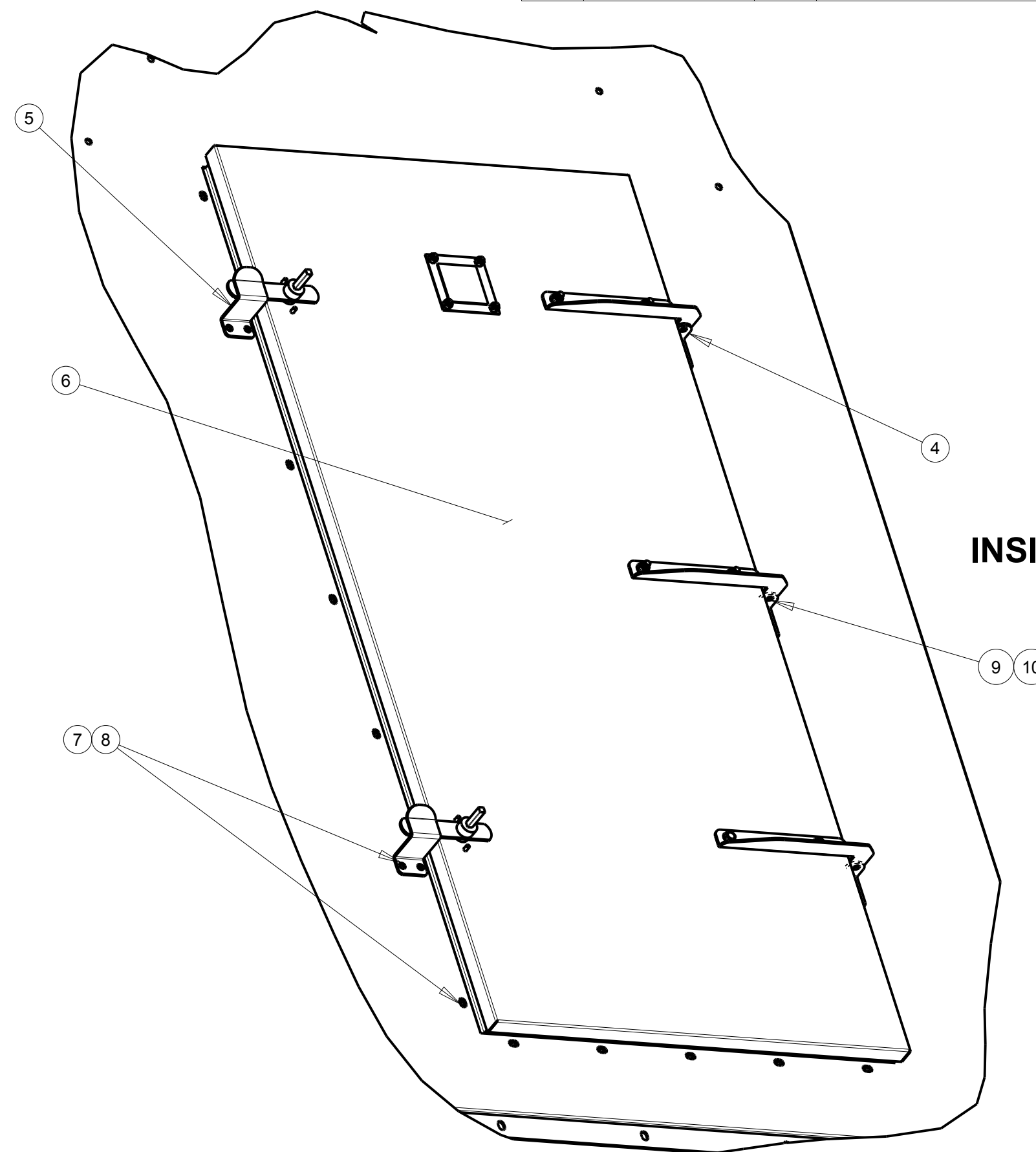


DELUX DRAWING NO.
900-007221
SHEET 1 OF 1

ITEM	PART NUMBER	QTY	DESCRIPTION
1	010-010837	1	LIMIT SWITCH - SAFETY - ACCESS DOORS
2	100-010344	2	TOP & BOTTOM-PLENUM & COOLING DOOR-GALV. FRAME
3	100-010345	2	LEFT & RIGHT-PLENUM DOOR-GALV. FRAME
4	100-010353	3	HINGE SUPPORT-PLENUM & COOLING DOOR-GALV. FRAME
5	100-010835	2	CATCH - PLENUM DOOR FRAME W/SWITCH
6	300-010839	1	SUB-ASSY - PLENUM DOOR-GALV. FRAME WITH SWITCH
7	040-005321	26	BOLT - WHIZLOCK HEX - 5/16-18UNC X 3/4
8	040-001459	26	NUT - WHIZLOCK HEX - 5/16-18UNC
9	040-001434	3	BOLT - HEX - 5/16-18UNC X 3/4
10	040-004068	3	NUT - NYLON LOCK - 5/16-18UNC
11	040-001453	2	SCREW - TCS #10-32UNC X 3/4"



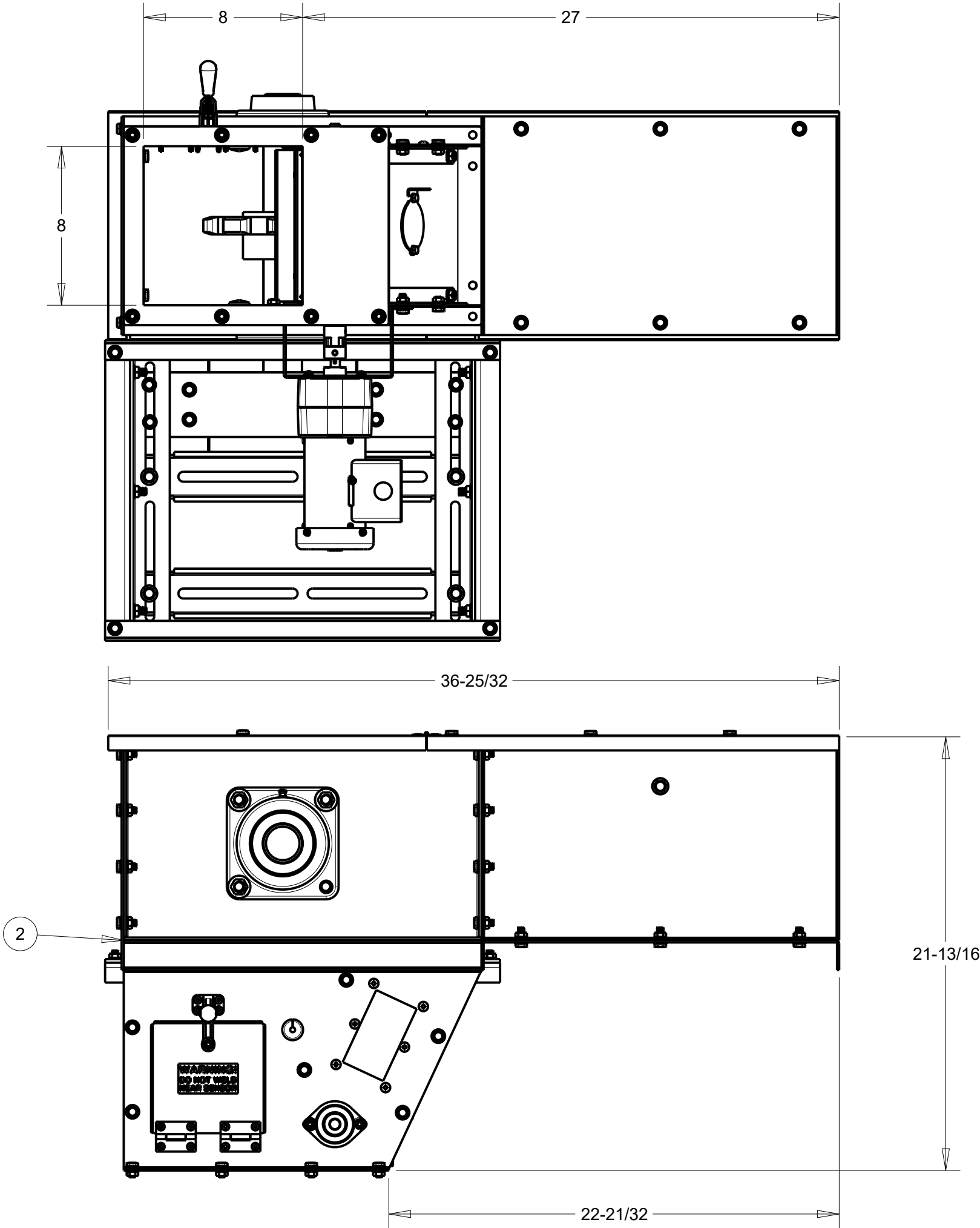
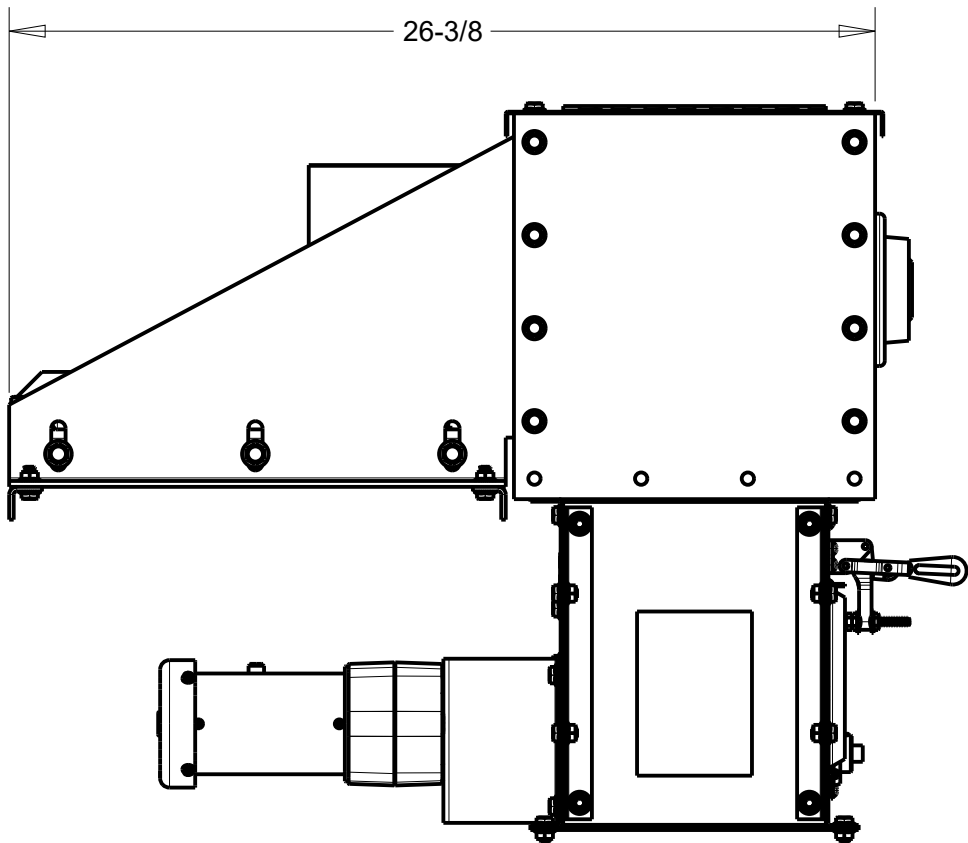
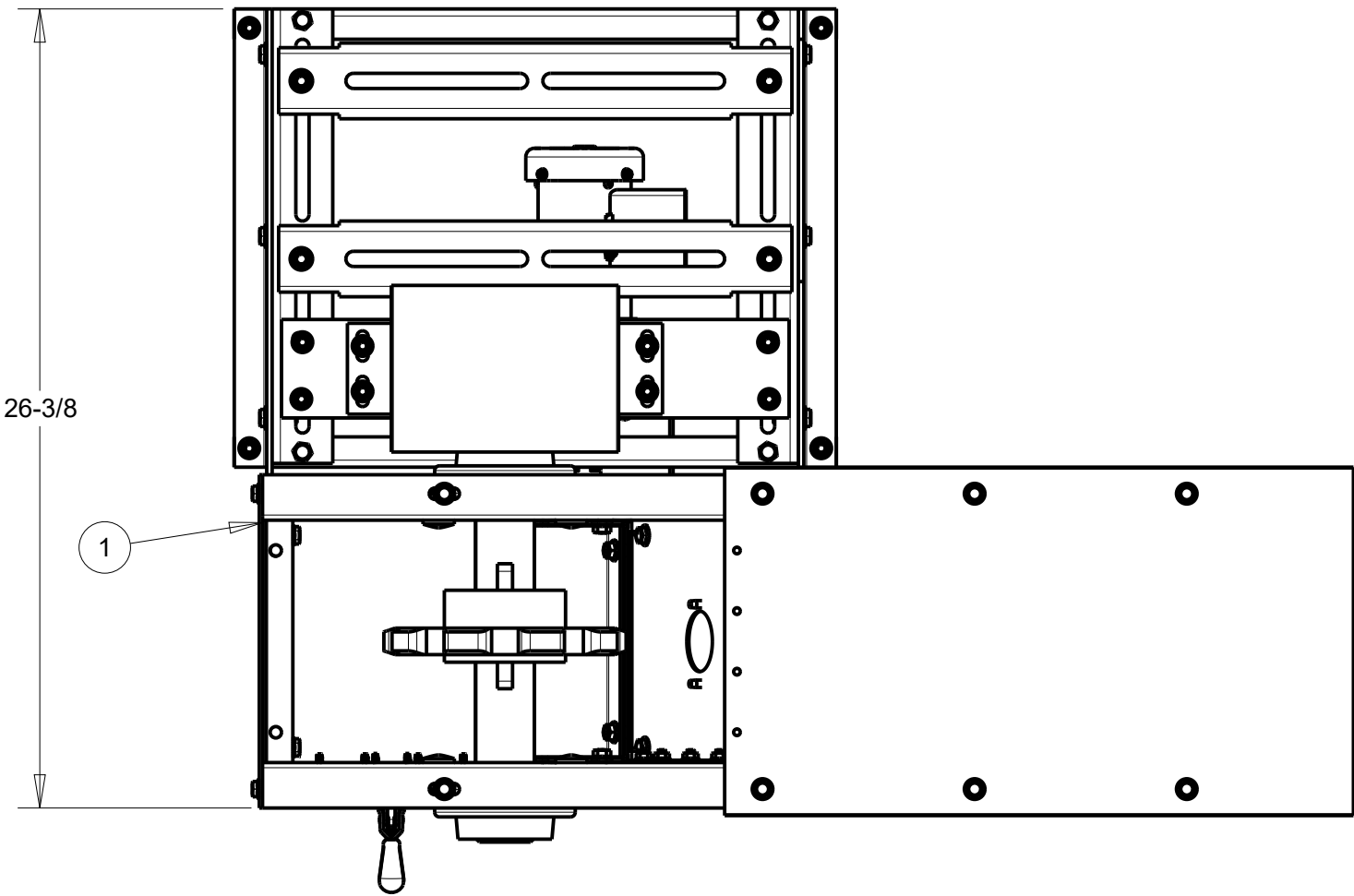
OUTSIDE OF DRYER



INSIDE OF DRYER

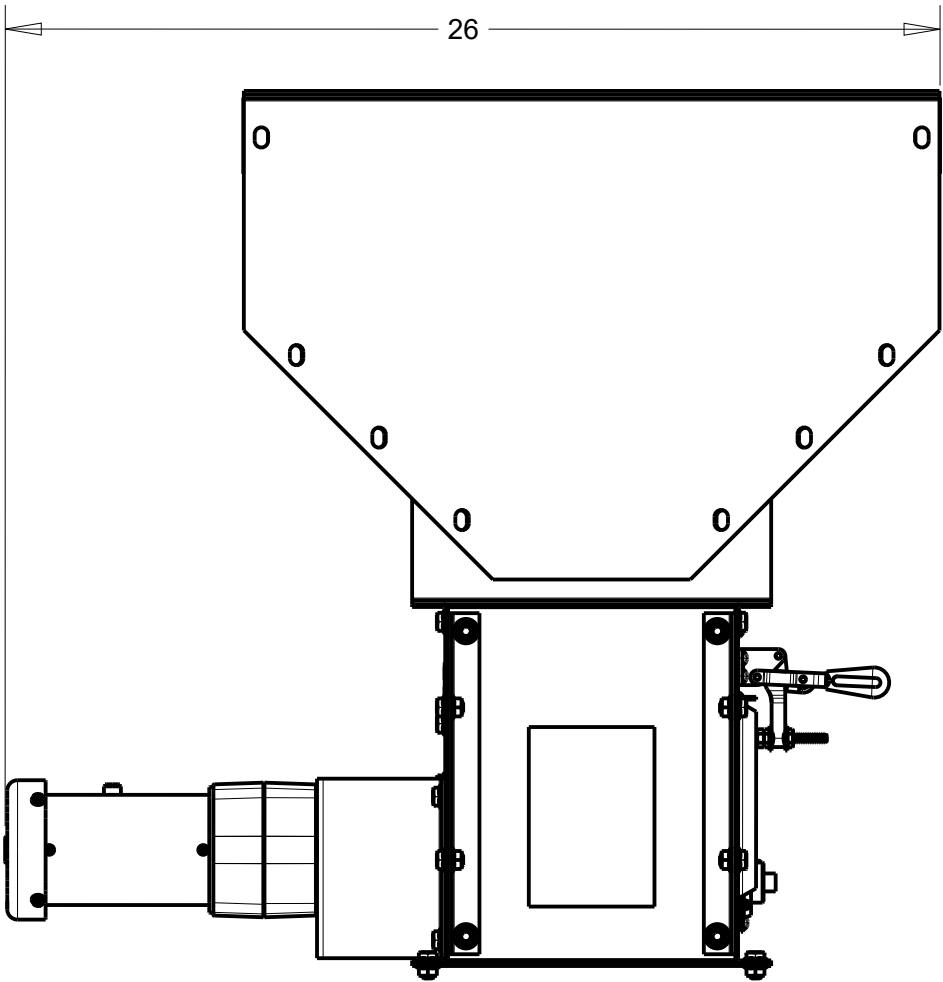
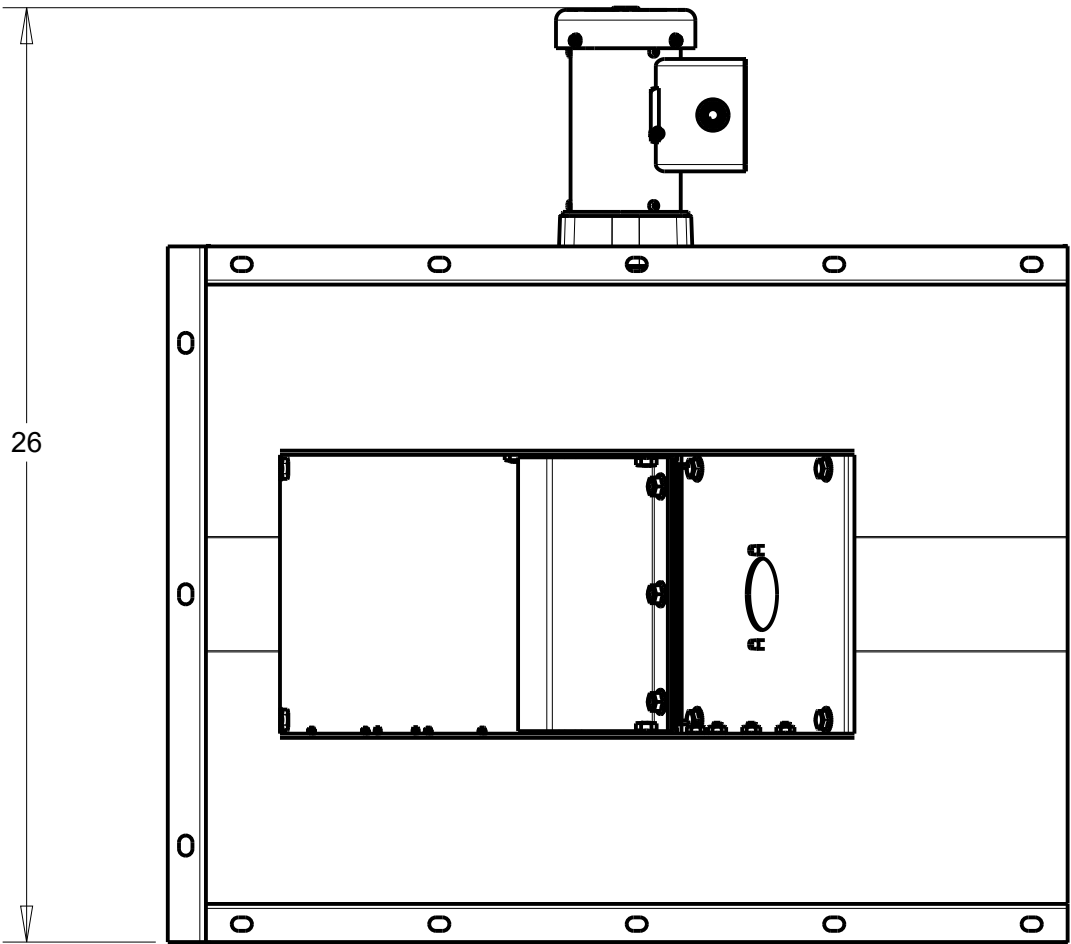
MASS:		18249208.931		PART NO.:		900-010876	
				DESCRIPTION:		ILLUSTRATION-PLENUM DOOR ASSEMBLY W/SAFETY SWITCH	
				MODELED BY:		M. LANTZER	
				THICKNESS:			
				MATERIAL:			
				SCALE:	0.156	DELUX MFG. CO. KEARNEY, NE	
				DATE:	Nov-26-14		
ECO#	LET	DESCRIPTION	DATE	USED ON:			
				TOLERANCE:	DECIMAL ±.010	FRACTION ±1/32	ANGLE ±1°
UNLESS OTHERWISE SPECIFIED							

ITEM	PART NUMBER	QTY	DESCRIPTION
1	100-010159	2	ANGLE - FRONT/REAR - DRAG TO MLNK BY-PASS
2	100-010160	2	ANGLE - SIDE - DRAG TO MLNK BY-PASS
3	400-008731	1	ASSY-HEAD-8X10 DRAG-HEAD DISCH
4	400-010113	1	SENSOR BY-PASS CHUTE - MOISTURELINK



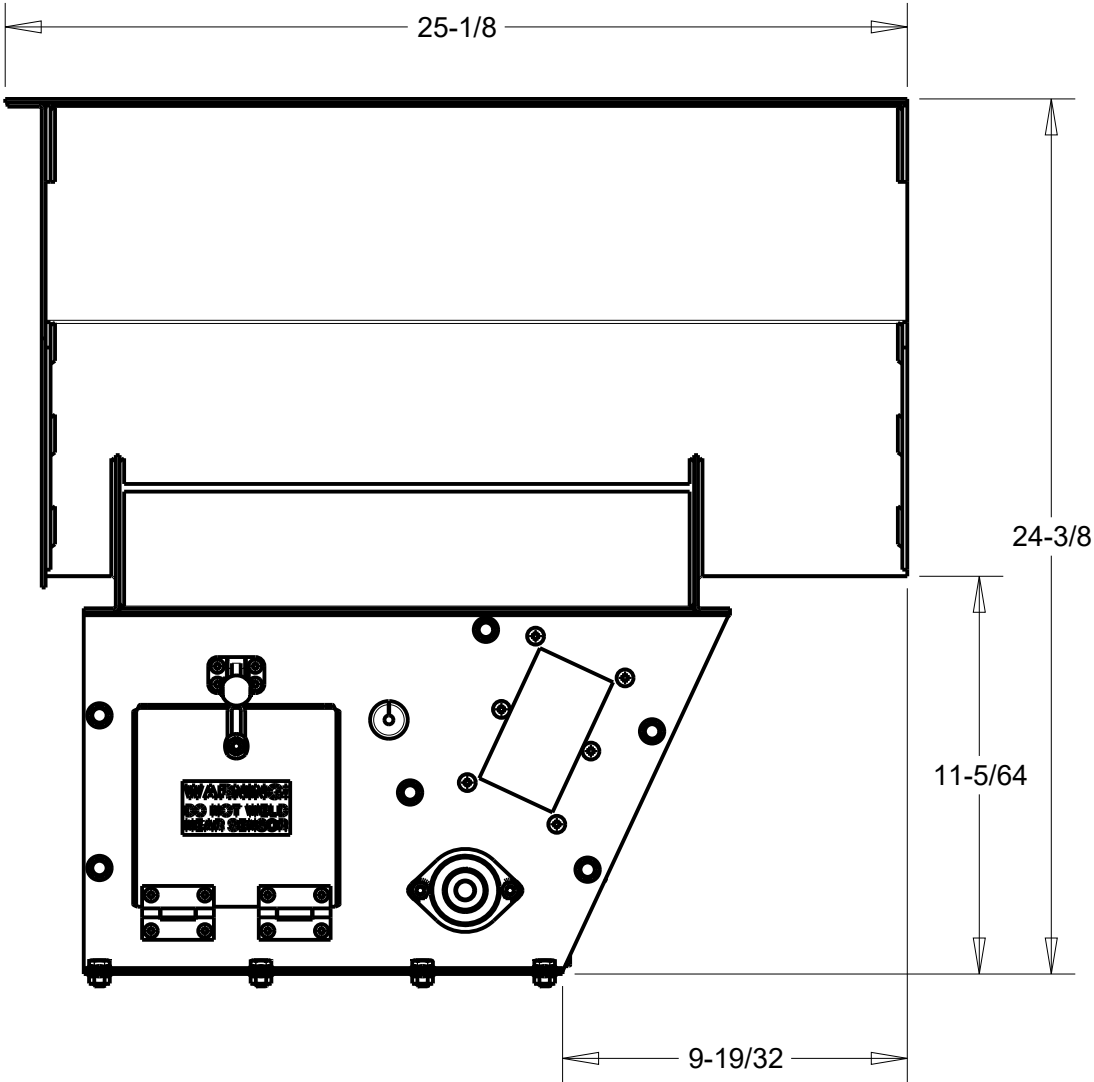
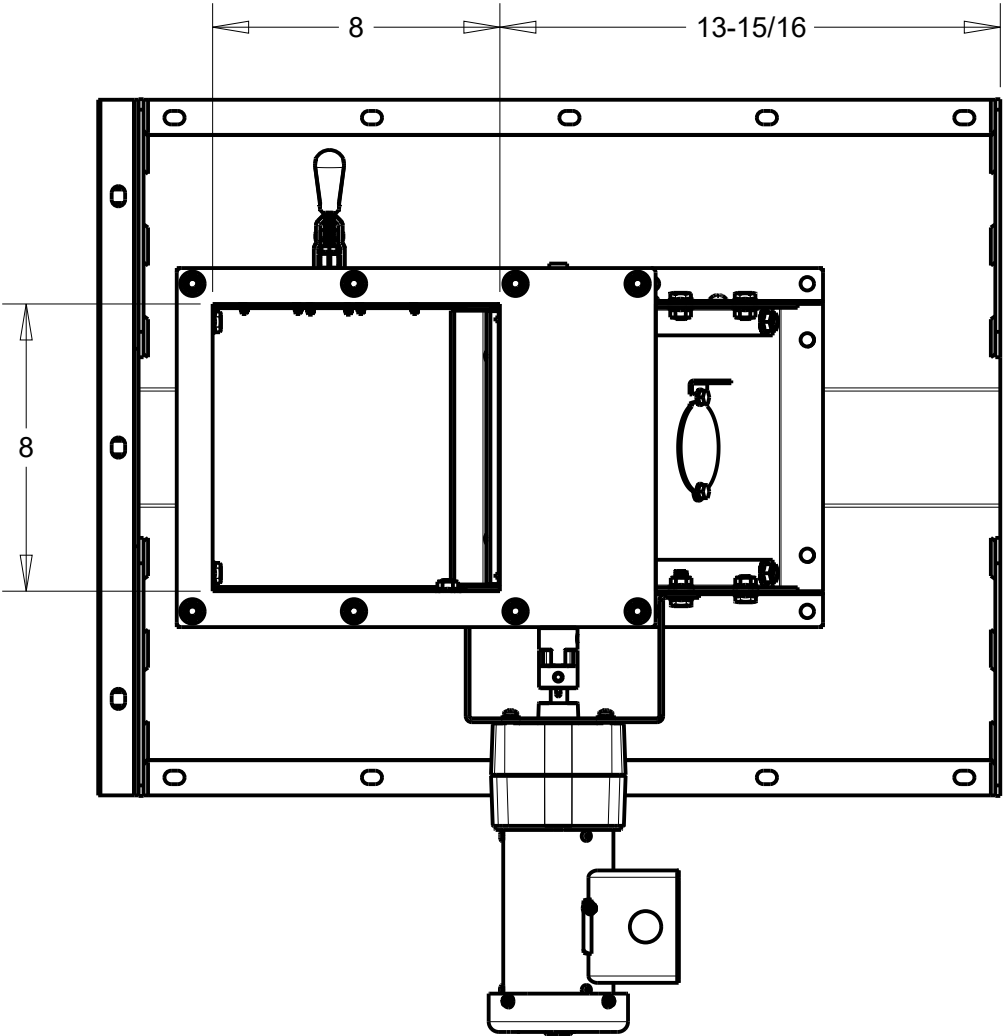
- NOTES:
- 1) THERE IS NO GEARBOX OR MOTOR DISPLAYED IN MODEL. THIS WILL VARY DEPENDING ON DRYER MODEL.
 - 2) GRAIN OUTLET IS 8" X 8"
 - 3) DRYER MODELS MUST HAVE A MINIMUM LEG SUPPORT OF 24". THIS HOWEVER DOES NOT TAKE INTO ACCOUNT THE HEIGHT OF HANDLING EQUIPMENT THE DRYER IS DISCHARGING INTO.
 - 4) REFERENCE DRAWING NO. 900-008750 FOR MORE INFORMATION REGARDING CONVEYOR ASSEMBLY & DIMENSIONING
 - 5) DRAWING BASED ON STANDARD DRAG DISCHARGE EXTENSION LENGTH.

				DRAWN BY JGW	DELUX MFG. CO. KEARNEY, NE		TITLE: ILLUSTRATION 8X10 DRAG CONVEYOR TO MOISTURELINK SENSOR BY-PASS CHUTE ASSEMBLY & DIMENSIONS	
				DATE 03/04/12				
				CHK'D	USED ON:			
					NEXT ASSY:			
				SCALE .171	MATL.	SHEAR SIZE	DRAWING NO. 900-010161	
ECO#	LET	DESCRIPTION	DATE	TOLERANCE: DECIMAL ±.010 FRACTION ±1/32 ANGLE ±1° UNLESS OTHERWISE SPECIFIED				

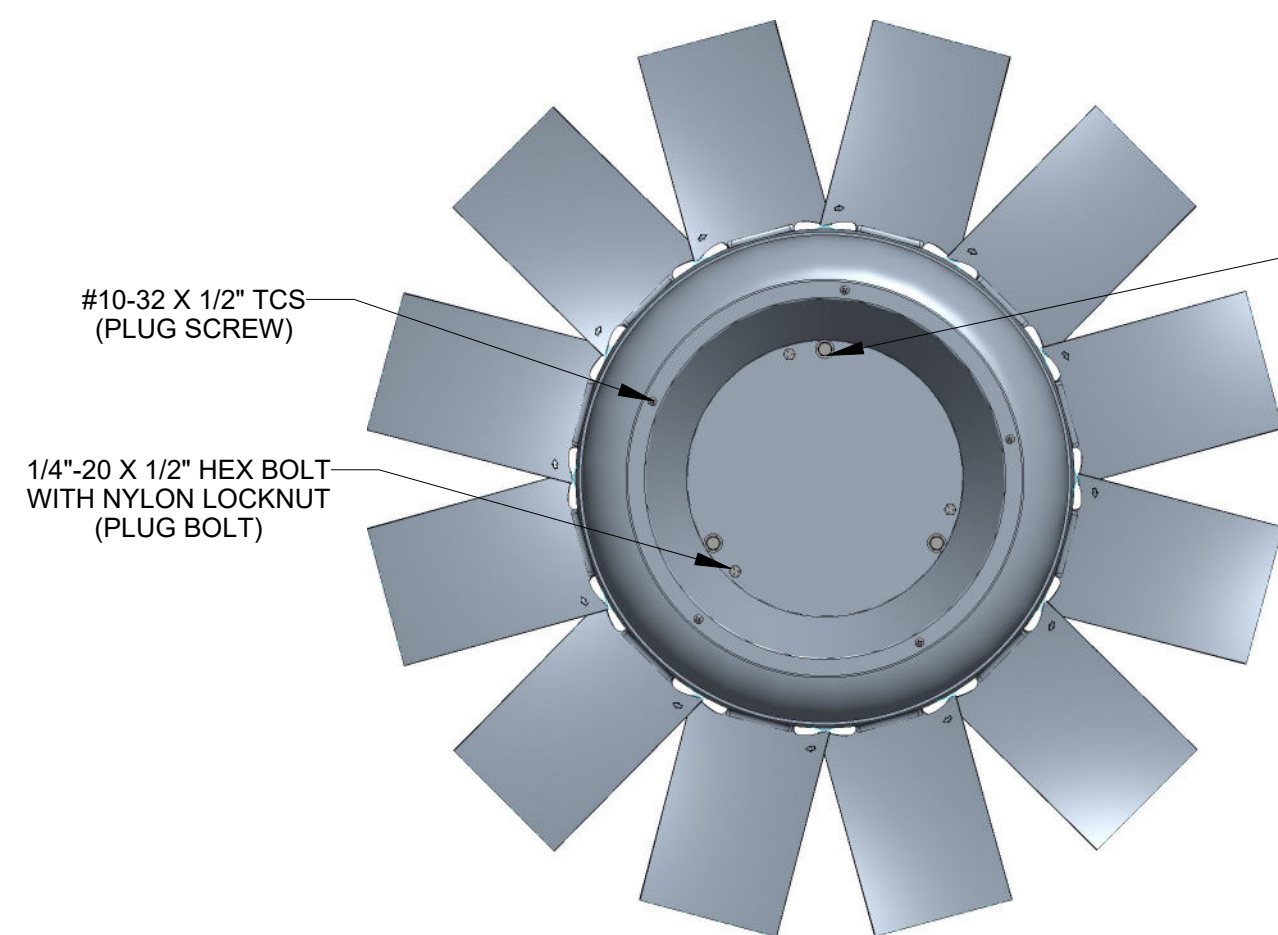


- NOTES:
- 1) GRAIN OUTLET IS 8" X 8"
 - 2) DRYER MODELS MUST HAVE A MINIMUM LEG SUPPORT OF 18". THIS HOWEVER DOES NOT TAKE INTO ACCOUNT THE HEIGHT OF HANDLING EQUIPMENT THE DRYER IS DISCHARGING INTO.
 - 3) DRAWING BASED ON STANDARD AUGER EXTENSION LENGTH.

ITEM	PART NUMBER	QTY	DESCRIPTION
1	400-010113	1	SENSOR BY-PASS CHUTE - MOISTURELINK
2	400-010114	1	DISCHARGE AUGER TROUGH - MLNK - 2FT



				DRAWN BY JGW	DELUX MFG. CO. KEARNEY, NE		TITLE: ILLUSTRATION 8" DISCHARGE AUGER TO MOISTURELINK SENSOR BY-PASS CHUTE ASSEMBLY & DIMENSIONS	
				DATE 03/04/12				
				CHK'D	USED ON:			
					NEXT ASSY:			
				SCALE .187	MATL.	SHEAR SIZE		
ECO#	LET	DESCRIPTION	DATE	TOLERANCE: DECIMAL ±.010 FRACTION ±1/32 ANGLE ±1° UNLESS OTHERWISE SPECIFIED				



#10-32 X 1/2" TCS
(PLUG SCREW)

1/4"-20 X 1/2" HEX BOLT
WITH NYLON LOCKNUT
(PLUG BOLT)

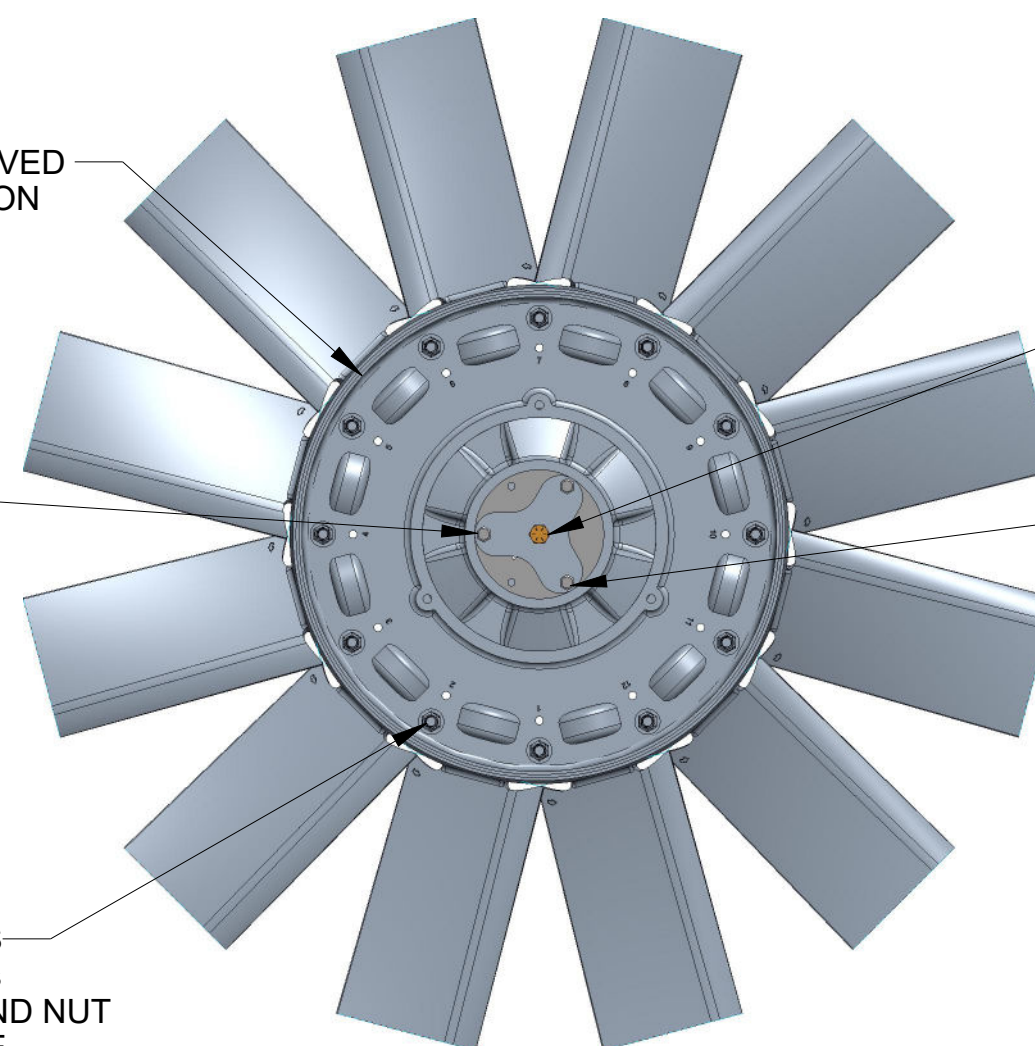
NOSE CONE BOLTS
TORQUE: 18 FtLbs
3/8"-16 X 1" TCS
9/16" WRENCH SIZE

NOSE CONE REMOVED
FOR ILLUSTRATION

BUSHING BOLTS
TORQUE: 24 FtLbs
3/8"-16 X 3" HEX BOLT
9/16" WRENCH SIZE

TORQUE FOR 2ND THRU 5TH INSTALLATION
AFTER 5TH INSTALLATION BOLTS SHOULD BE
REPLACED

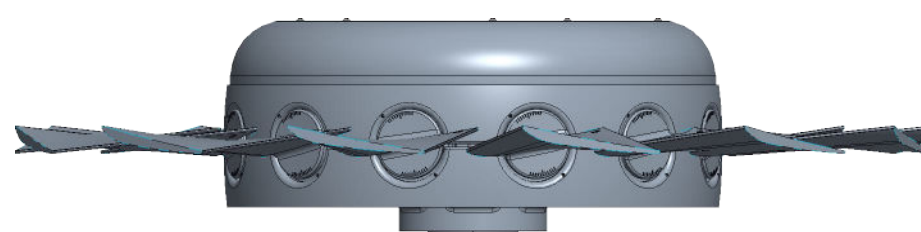
CLAMPING BOLTS
TORQUE: 50 FtLbs
1/2"-13 X 4" HEX BOLT AND NUT
3/4" WRENCH SIZE



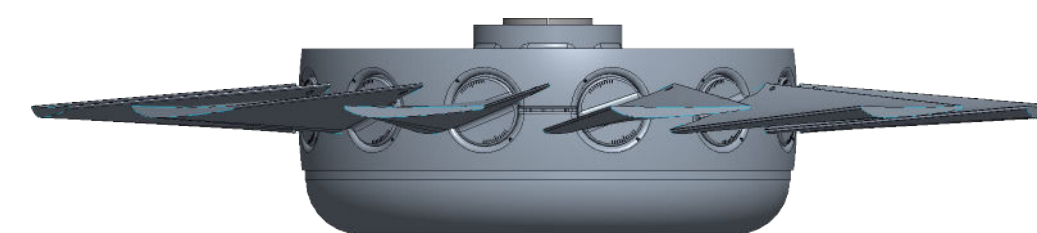
100-012555
BUSHING RETAINER
INSTALLED ON ALL
BOTTOM MOUNTED
FANS DPX THRU 16GT
MODELS

MOTOR SHAFT
DRILLED AND TAPPED
FOR 1/2"-13UNC BOLT
(THREAD LOCK APPLIED AT INSTALL)

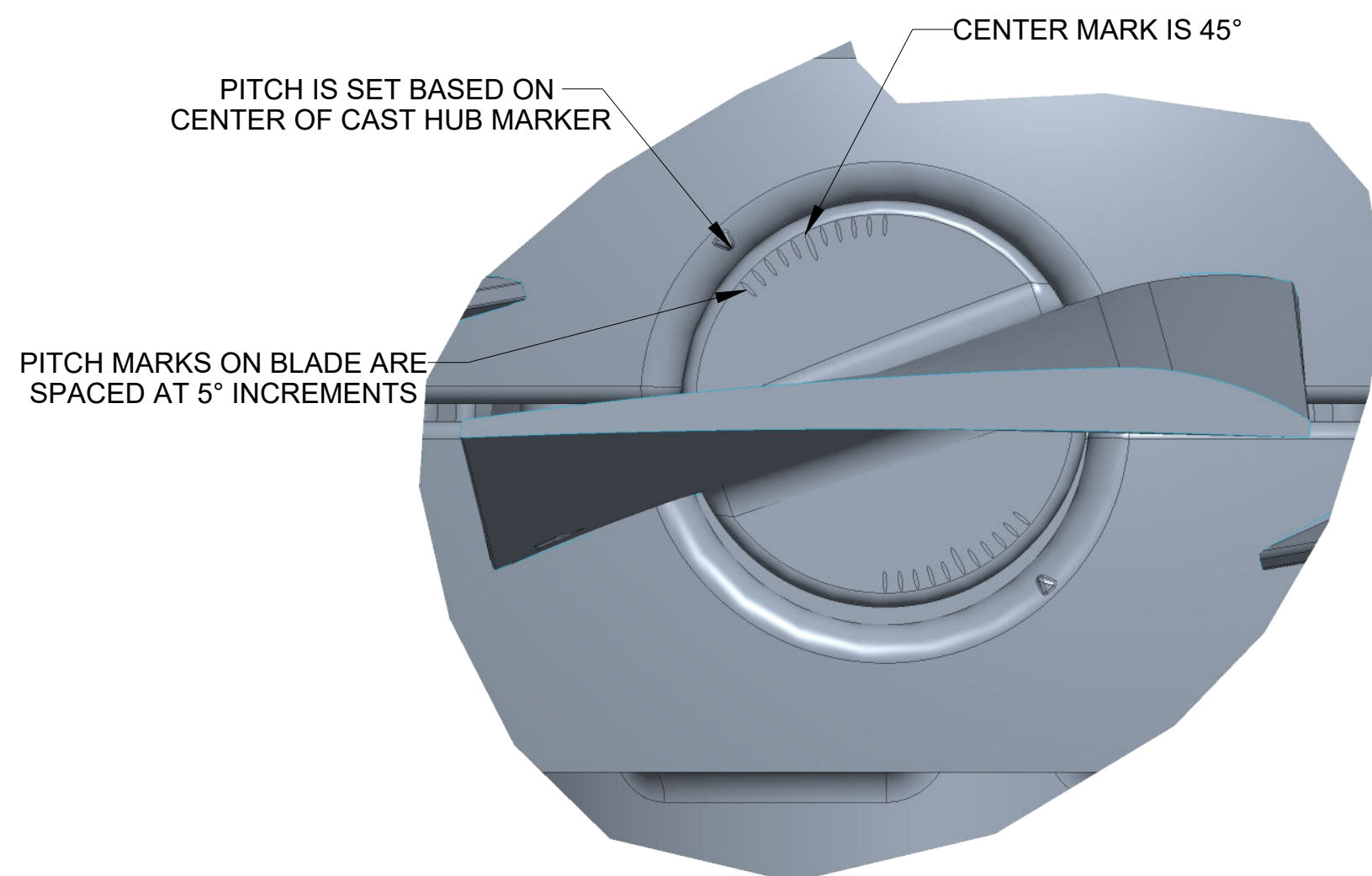
BUSHING BOLTS
DRILLED FOR
SAFETY WIRE



FAN MOUNTED ON TOP
ALL DPSL MODELS



FAN MOUNTED ON BOTTOM
ALL DPXSL THRU 16GT MODELS



CENTER MARK IS 45°

PITCH IS SET BASED ON
CENTER OF CAST HUB MARKER

PITCH MARKS ON BLADE ARE
SPACED AT 5° INCREMENTS

MASS:		119.577		PART NO.:			
				DESCRIPTION:		TCF FAN INSTALLATION DIAGRAM	
				MODELED BY:		AJ LANTZER	
				THICKNESS:			
				MATERIAL:			
				SCALE:	0.125	DELUX MFG. CO. KEARNEY, NE	
				DATE:	May-06-21		
ECO#	LET	DESCRIPTION	DATE	USED ON:			
TOLERANCE: DECIMAL + .010 FRACTION +1/32 ANGLE +1° UNLESS OTHERWISE SPECIFIED							

DELUX MFG. CO.
KEARNEY, NE