

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 may be supplied as optional 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 the included drawing. 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 the included drawing(s) to install the handrail and fittings.
- 6) When needed, assemble the garner walkway handrail & fittings while the roof section is on the ground. Use the included drawing to install the handrail and fittings.
- 7) Install the plenum walkway handrail and fittings on the base section. Use the included drawing 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 the included drawing.
- 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.

- 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 the included drawing.
- 15) When needed, install the drag conveyor using the included drawing.
- 16) When needed, install the auger trough and auger extension.
- 17) When needed, install the MoistureLink sensor bypass chute to the discharge using the included drawing.
- 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

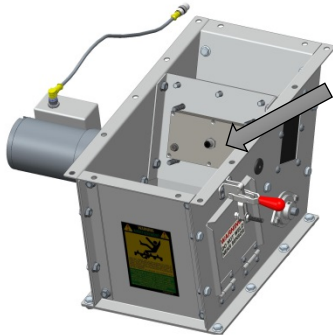
Finishing the installation of the discharge sensor by-pass chute is the only field installation that is required from factory. Care must be taken so that components are not damaged during the installation of other grain handling equipment set in place to carry grain away from the dryer. The discharge 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.

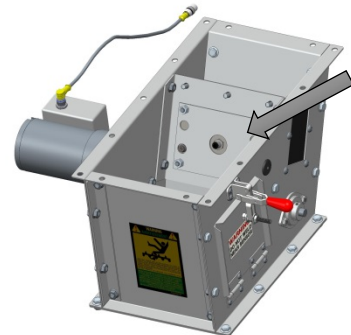
- Install the auger extension trough & auger. This is the portion of the auger and carrying trough that extends past the end of the dryer. If the dryer discharge is a drag conveyor, install the drag conveyor first.

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

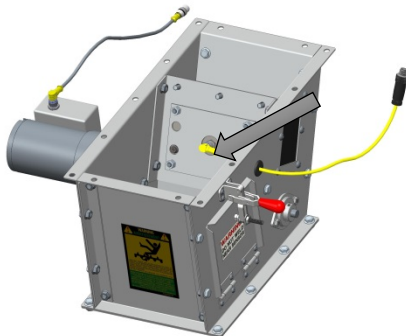
Install the discharge sensor & cable as shown:



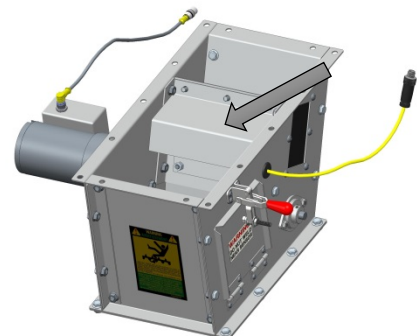
Step 1
Remove sensor cover & compression plate and install sensor as shown.



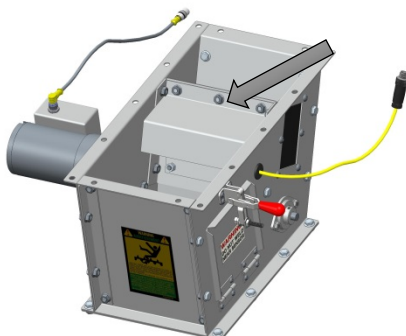
Step 2
Install sensor compression plate and tighten down with nylon lock nuts provided.



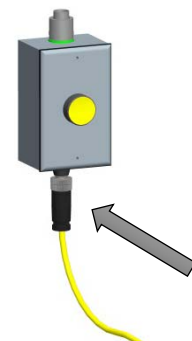
Step 3
Connect the moisture sensor cable (yellow) to the sensor. Remove the rubber grommet to get the right angle plug through the hole.



Step 4
Reinstall the sensor cover plate.

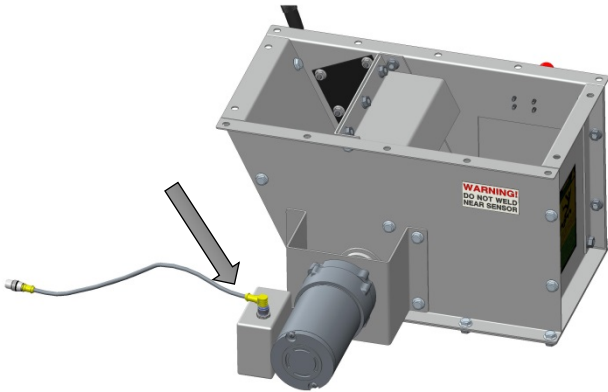


Step 5
Reinstall all hardware & make sure it is tightened before completing the installation.

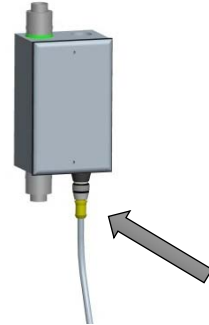


Step 6
Connect the other end of the moisture sensor cable to the Sensor Calibration Button Junction Box.

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.

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.

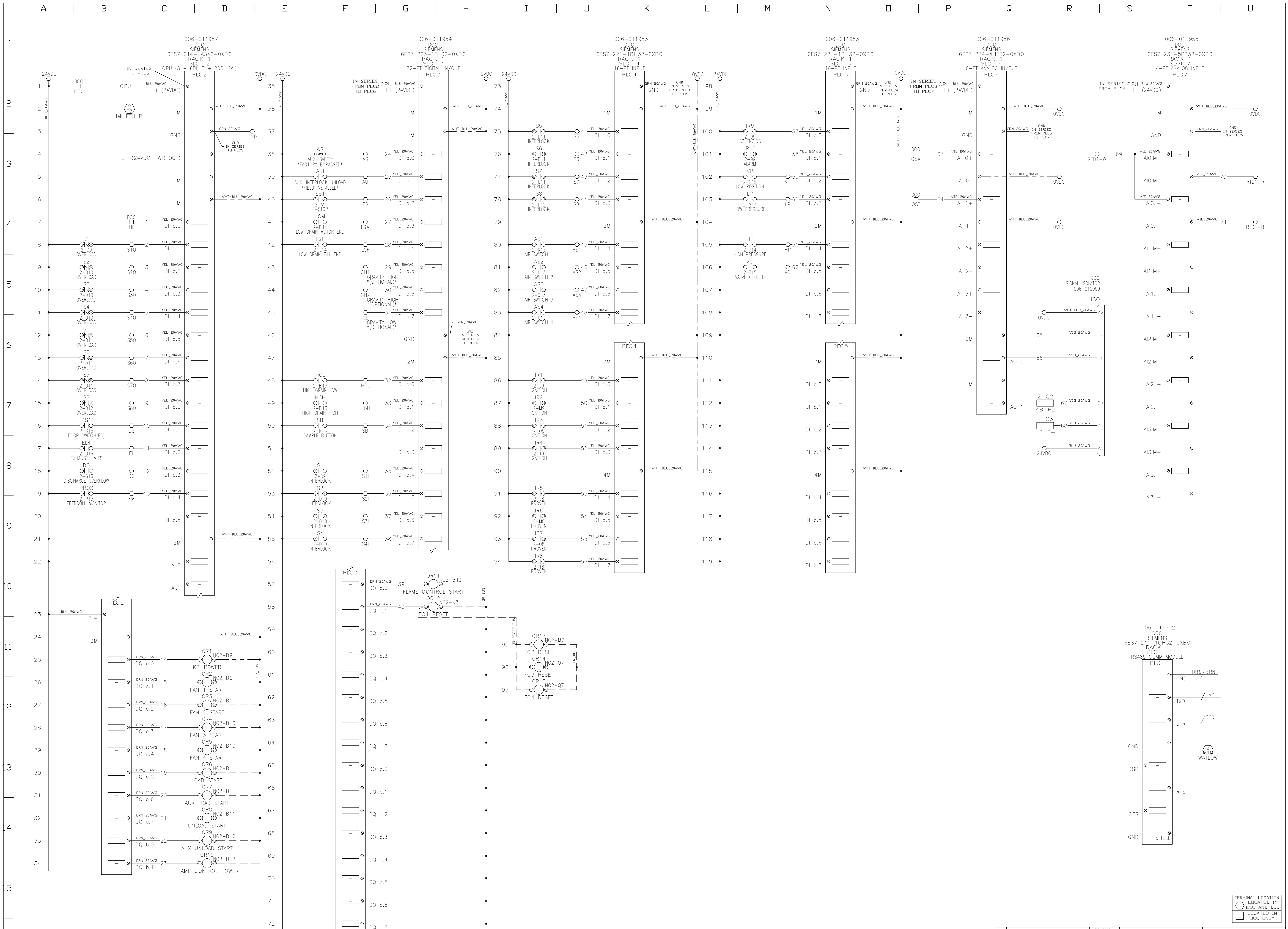
** FULL LOAD AMPS DOES NOT INCLUDE ANY AUX. HANDLING EQUIPMENT.

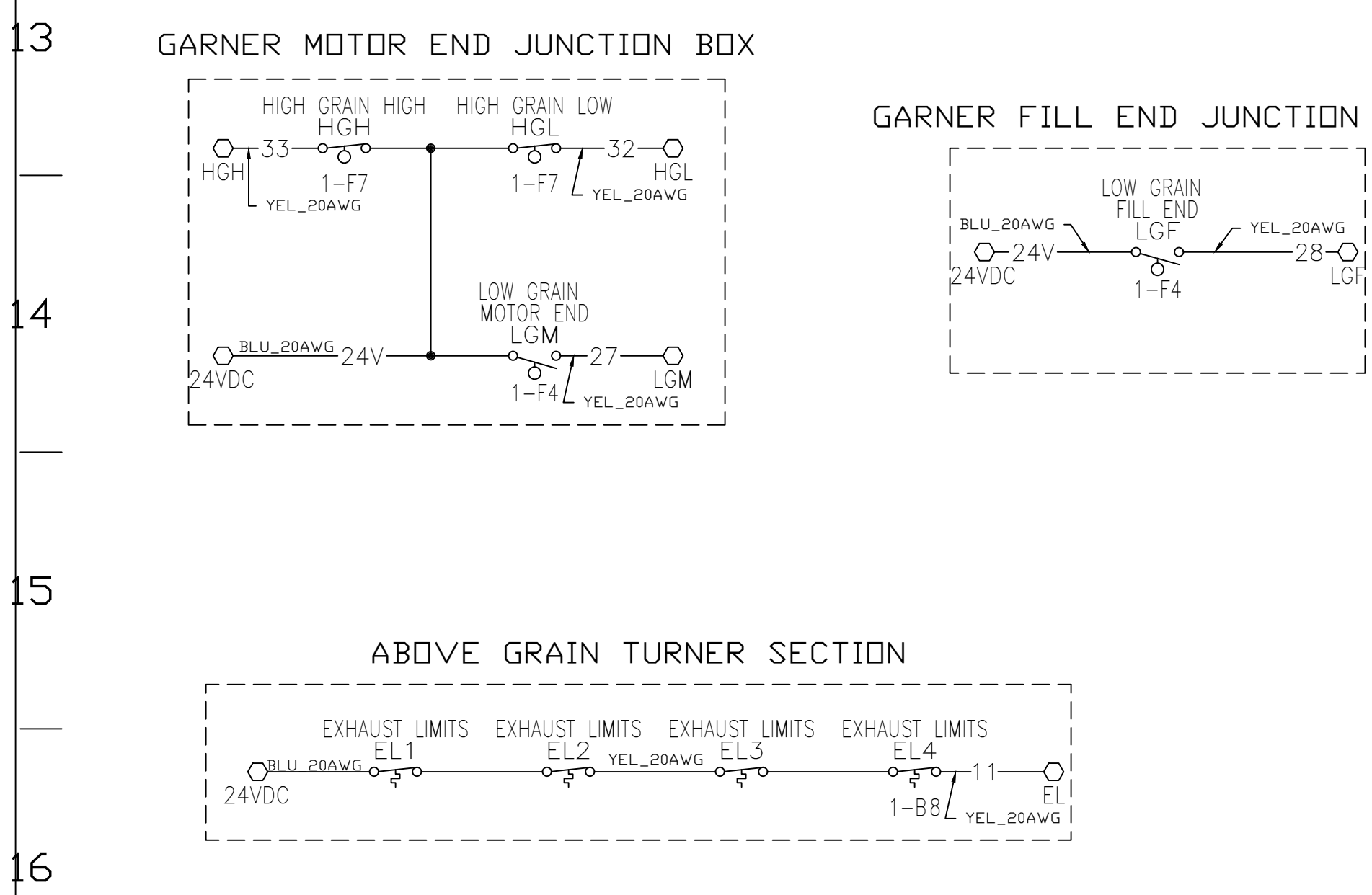
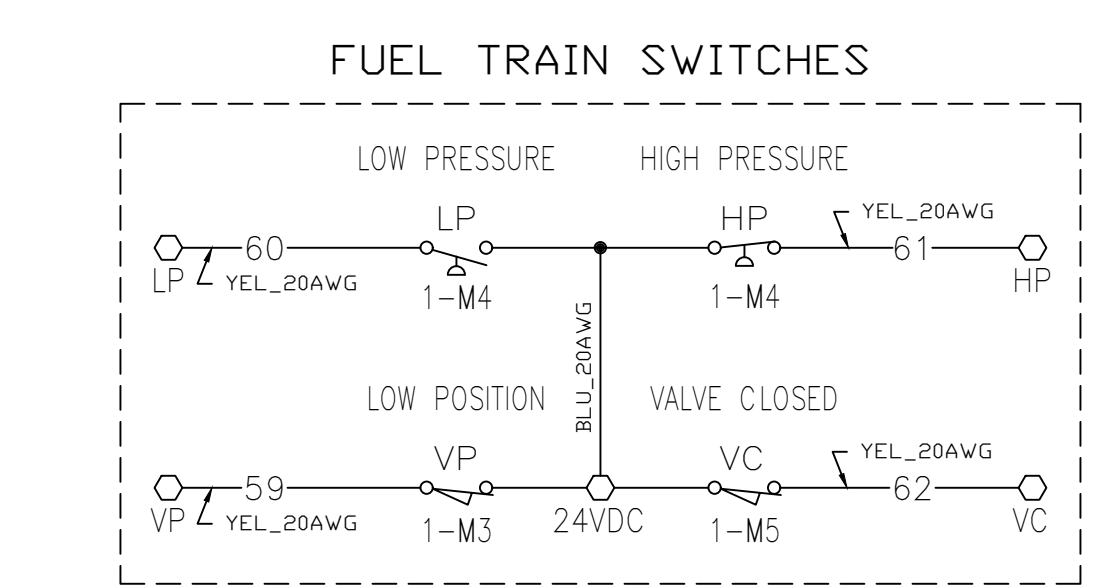
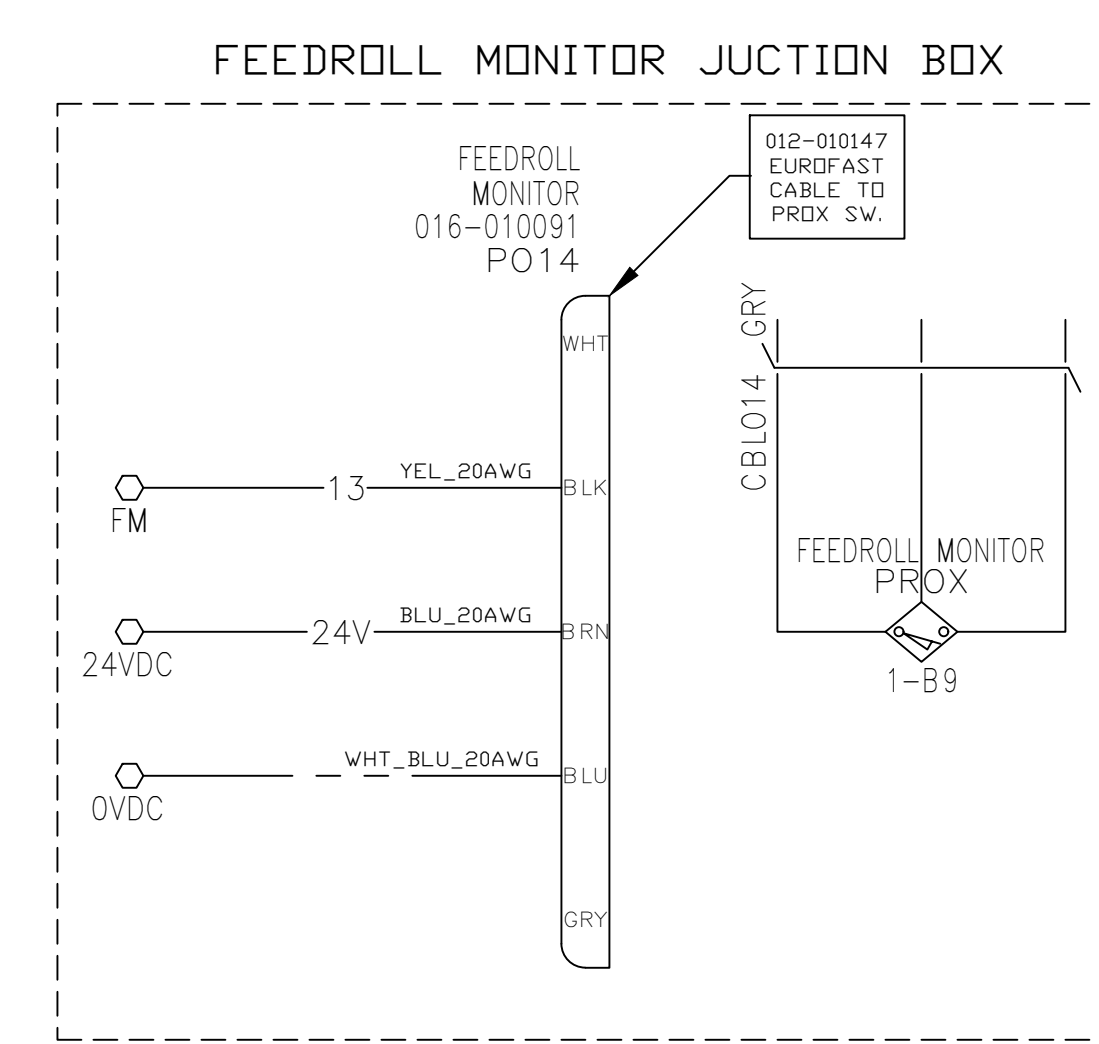
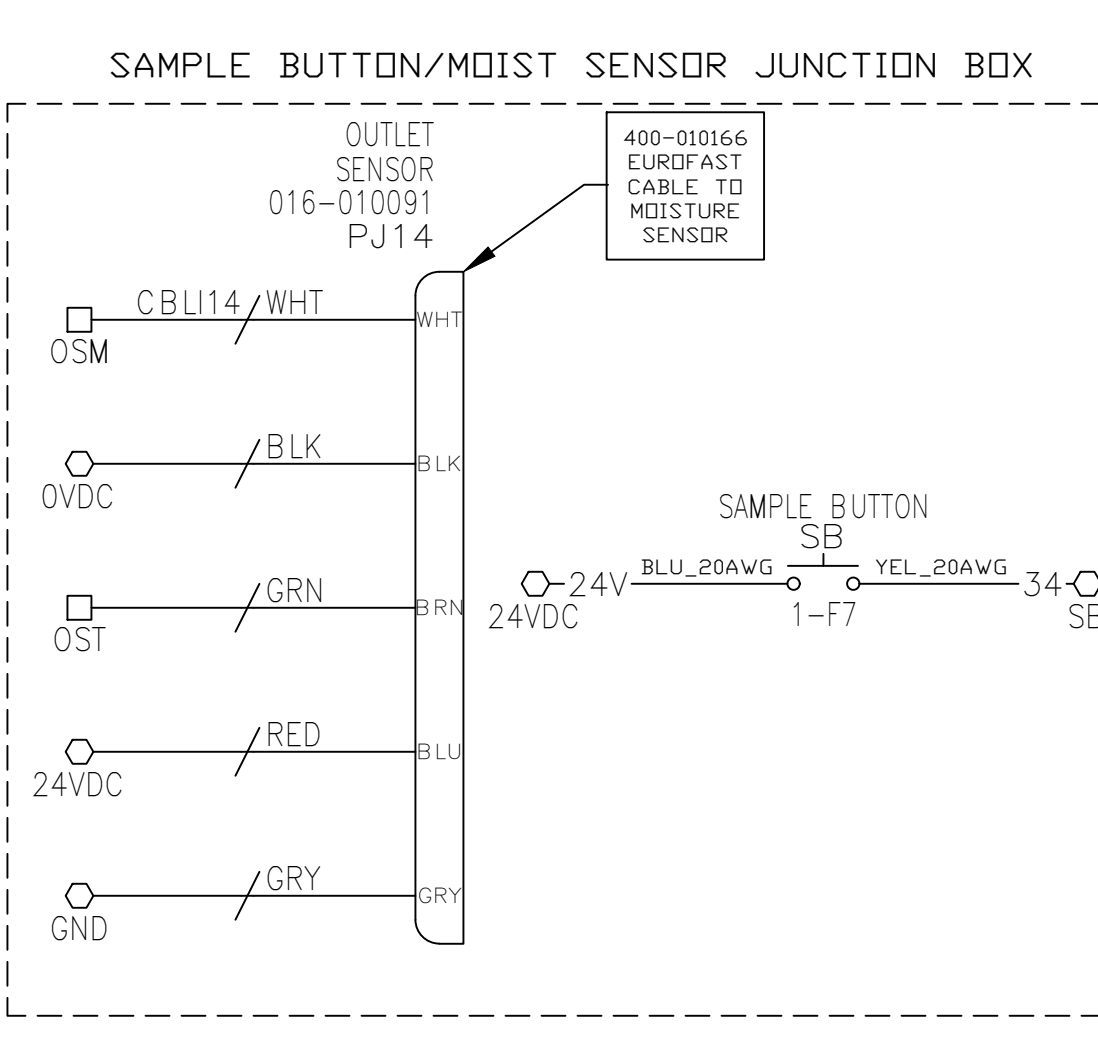
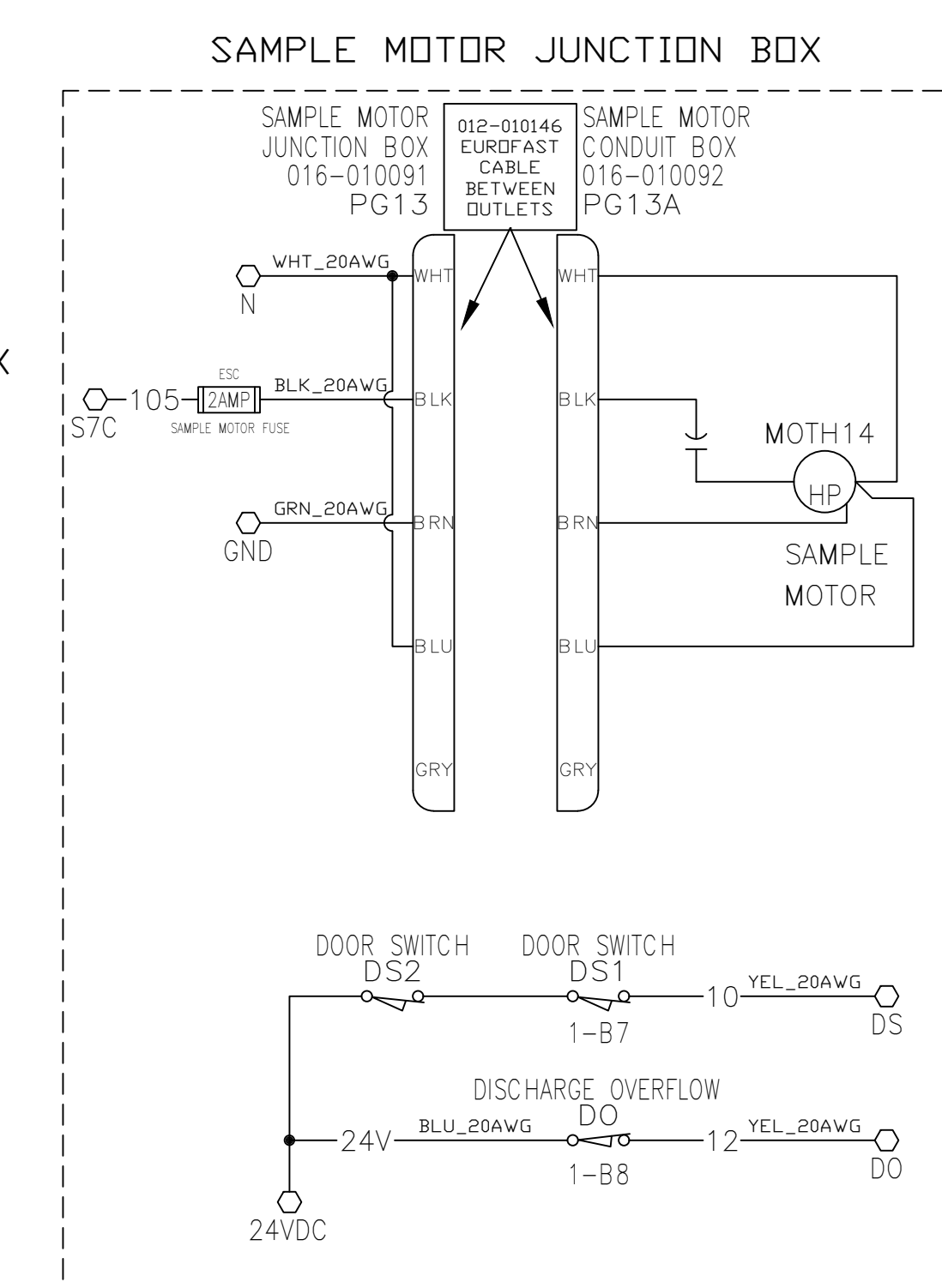
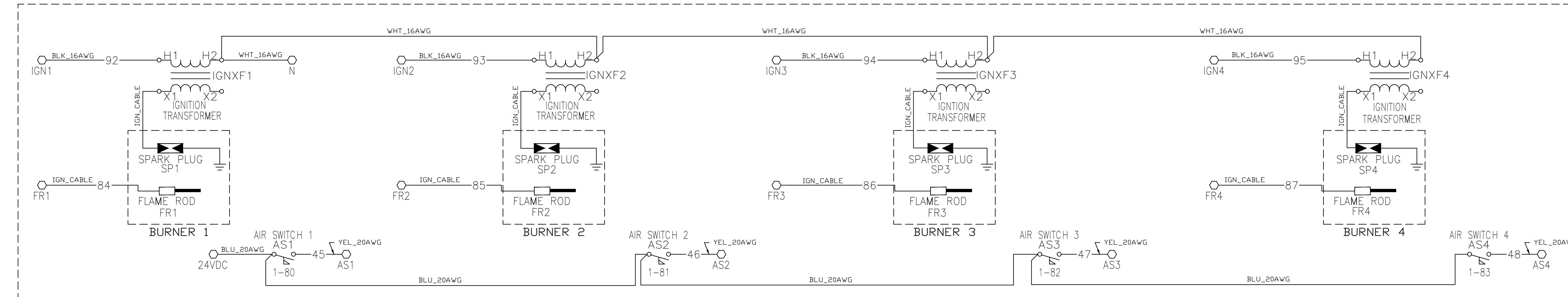
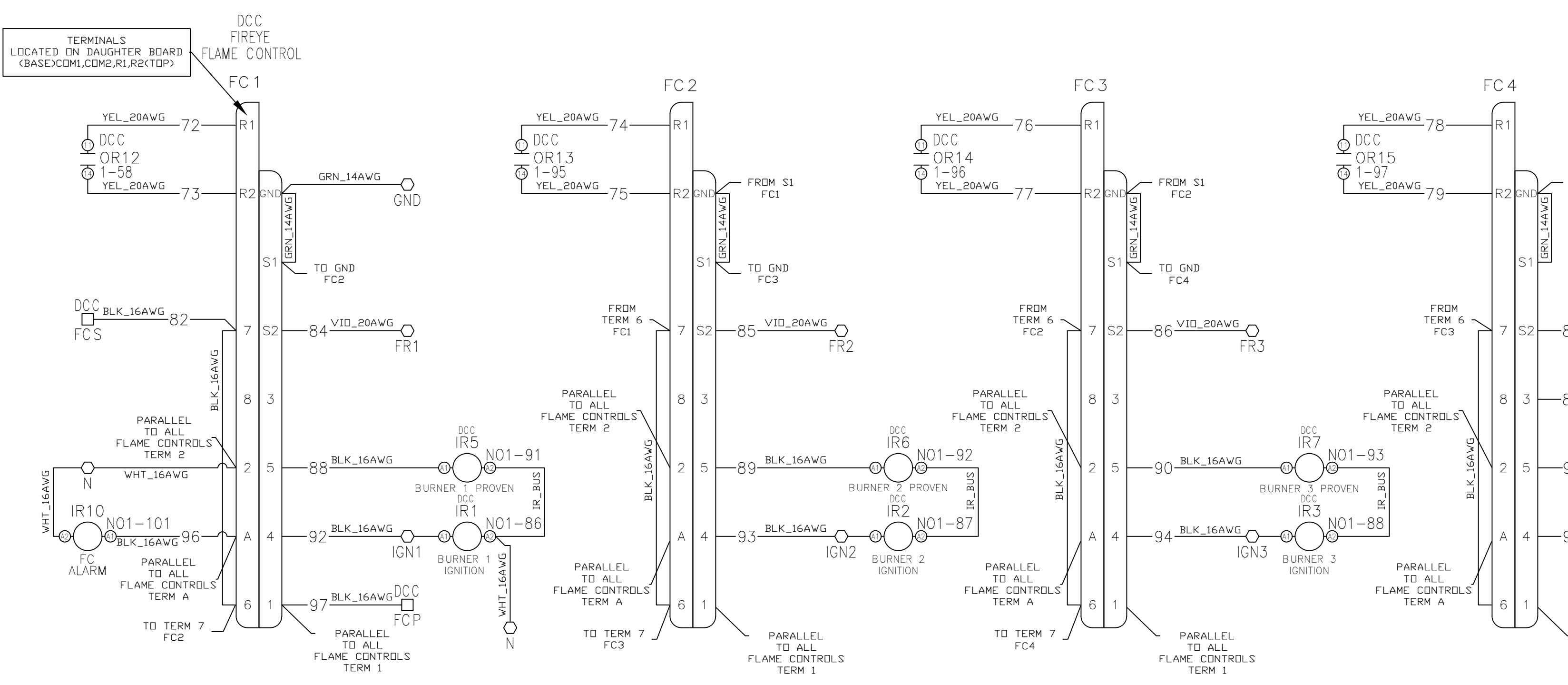
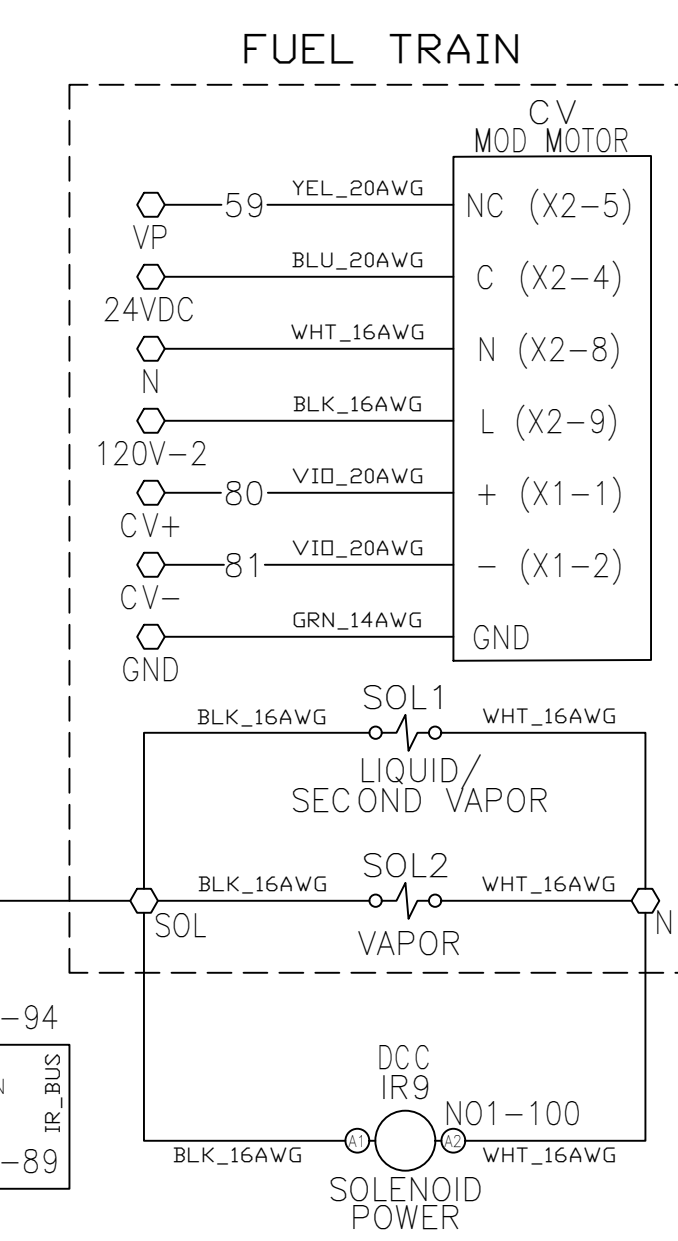
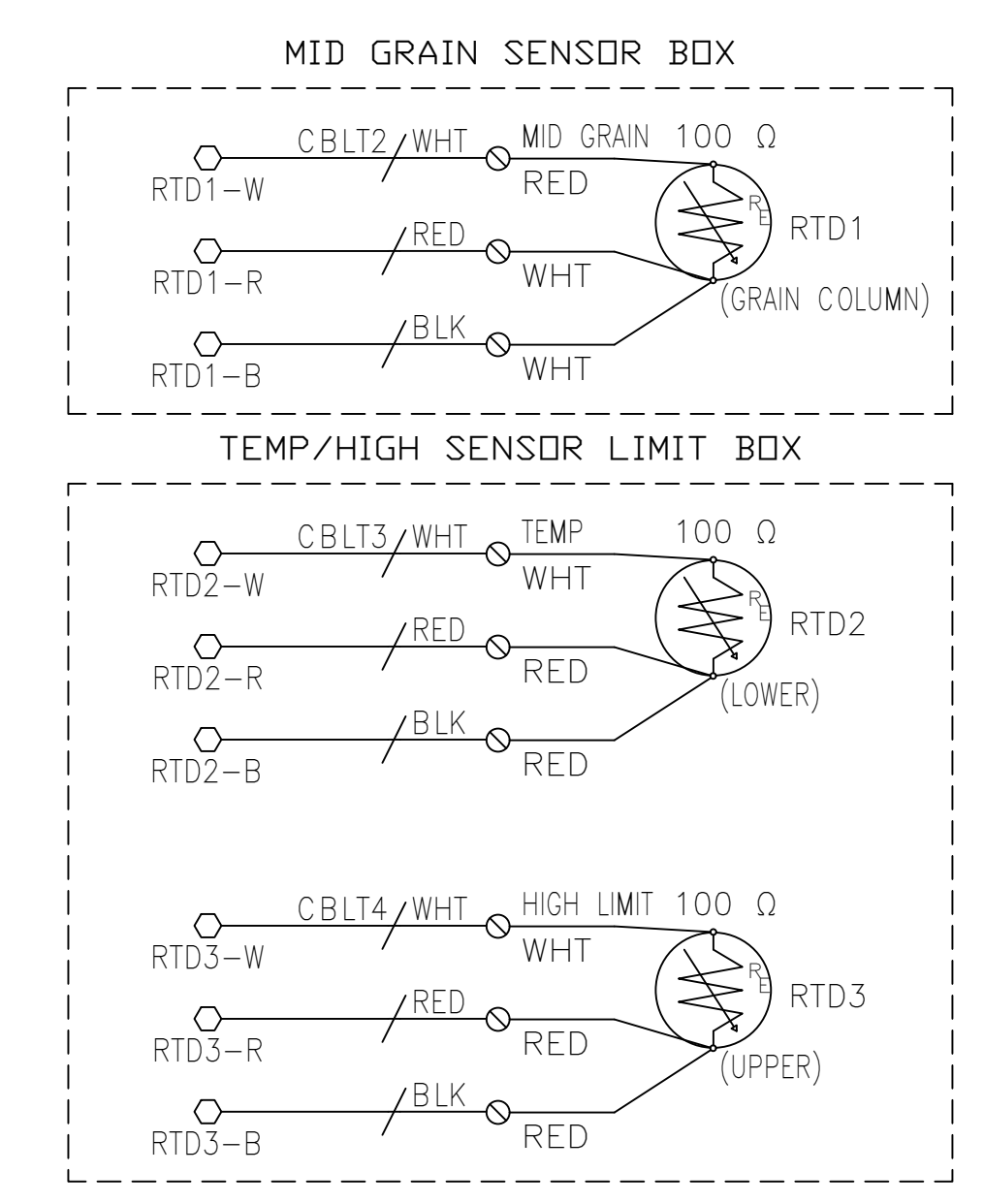
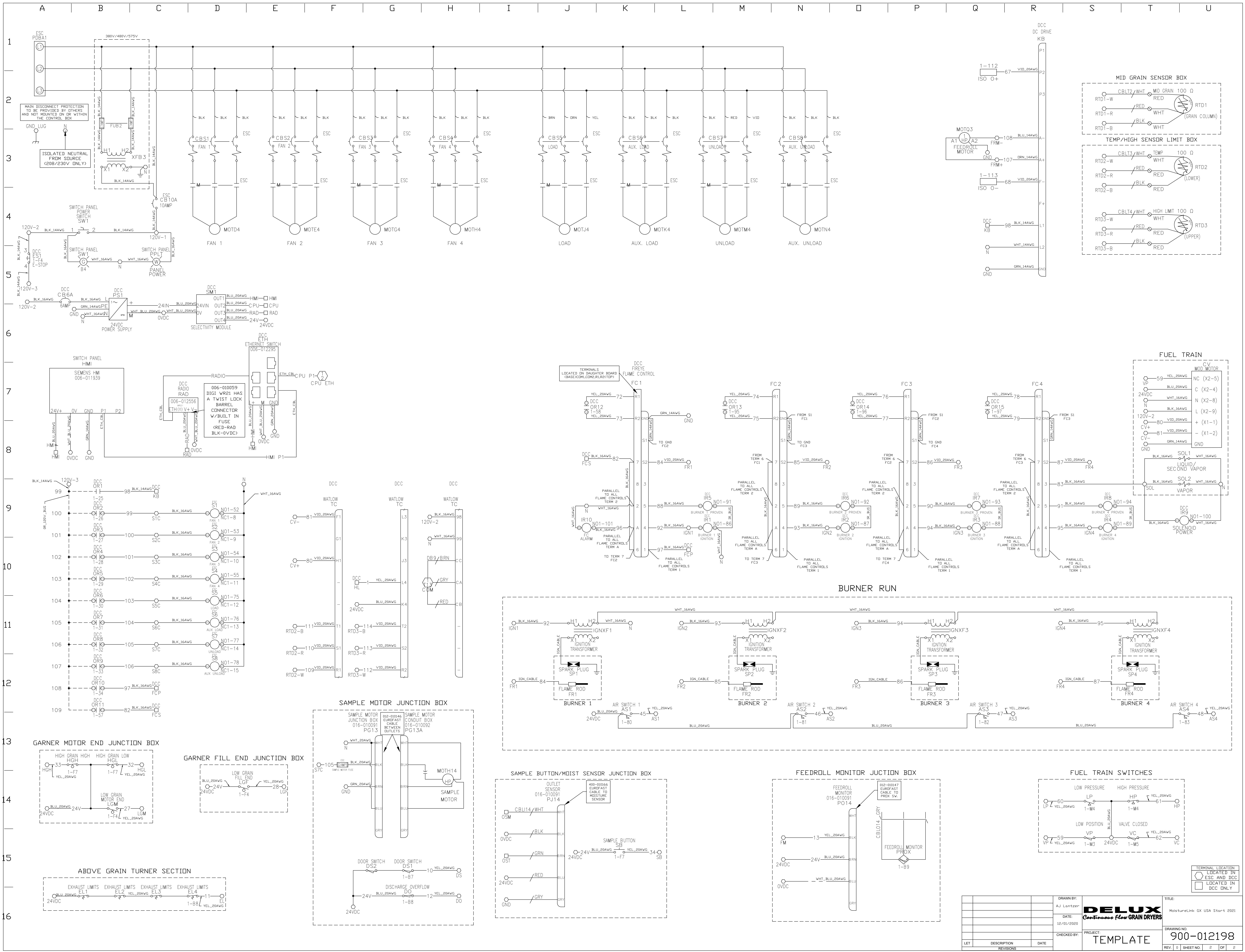
TABLE 2.2

MINIMUM AND MAXIMUM BTU/HR - ALL

| MODEL | TOTAL CFM | MINIMUM | | MAXIMUM | | MAX w/Reclaim | |
|-----------|-----------|----------------|------------------|----------------|------------------|----------------|------------------|
| | | 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 |
| DP15 | 20,154 | 50 | 1.1 | 160 | 3.5 | 130 | 2.8 |
| DP20 | 20,154 | 50 | 1.1 | 160 | 3.5 | 130 | 2.8 |
| DP30 | 30,231 | 50 | 1.6 | 160 | 5.2 | 130 | 4.2 |
| DP40 | 40,308 | 50 | 2.2 | 160 | 7.0 | 130 | 5.7 |
| DPSL10 | 17,808 | 50 | 1.0 | 160 | 3.1 | 130 | 2.5 |
| DPSL15 | 22,896 | 50 | 1.2 | 160 | 4.0 | 130 | 3.2 |
| DPSL20 | 35,616 | 50 | 1.9 | 160 | 6.2 | 130 | 5.0 |
| DPSL25 | 45,792 | 50 | 2.5 | 160 | 7.9 | 130 | 6.4 |
| DPSL30 | 53,424 | 50 | 2.9 | 160 | 9.2 | 130 | 7.5 |
| DPSL40 | 71,232 | 50 | 3.8 | 160 | 12.3 | 130 | 10.0 |
| DPXSL20 | 45,792 | 50 | 2.5 | 160 | 7.9 | 130 | 6.4 |
| DPXSL25 | 57,876 | 50 | 3.1 | 160 | 10.0 | 130 | 8.1 |
| DPXSL30 | 68,688 | 50 | 3.7 | 160 | 11.9 | 130 | 9.6 |
| DPXSL40 | 91,584 | 50 | 4.9 | 160 | 15.8 | 130 | 12.9 |
| DPX4T20 | 57,876 | 50 | 3.1 | 160 | 10.0 | 130 | 8.1 |
| DPX4T25 | 79,500 | 50 | 4.3 | 160 | 13.7 | 130 | 11.2 |
| DPX4T30 | 86,814 | 50 | 4.7 | 160 | 15.0 | 130 | 12.2 |
| DPX4T40 | 115,752 | 50 | 6.3 | 160 | 20.0 | 130 | 16.3 |
| DPX8GT20 | 57,876 | 50 | 3.1 | 160 | 10.0 | 130 | 8.1 |
| DPX8GT25 | 79,500 | 50 | 4.3 | 160 | 13.7 | 130 | 11.2 |
| DPX8GT30 | 86,814 | 50 | 4.7 | 160 | 15.0 | 130 | 12.2 |
| DPX8GT40 | 115,752 | 50 | 6.3 | 160 | 20.0 | 130 | 16.3 |
| DPX12GT20 | 68,402 | 50 | 3.7 | 160 | 11.8 | 130 | 9.6 |
| DPX12GT25 | 88,086 | 50 | 4.8 | 160 | 15.2 | 130 | 12.4 |
| DPX12GT30 | 102,603 | 50 | 5.5 | 160 | 17.7 | 130 | 14.4 |
| DPX12GT40 | 136,804 | 50 | 7.4 | 160 | 23.6 | 130 | 19.2 |
| DPX16GT20 | 79,500 | 50 | 4.3 | 160 | 13.7 | 130 | 11.2 |
| DPX16GT25 | 88,086 | 50 | 4.8 | 160 | 15.2 | 130 | 12.4 |
| DPX16GT30 | 119,250 | 50 | 6.4 | 160 | 20.6 | 130 | 16.7 |
| DPX16GT40 | 159,000 | 50 | 8.6 | 160 | 27.5 | 130 | 22.3 |

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



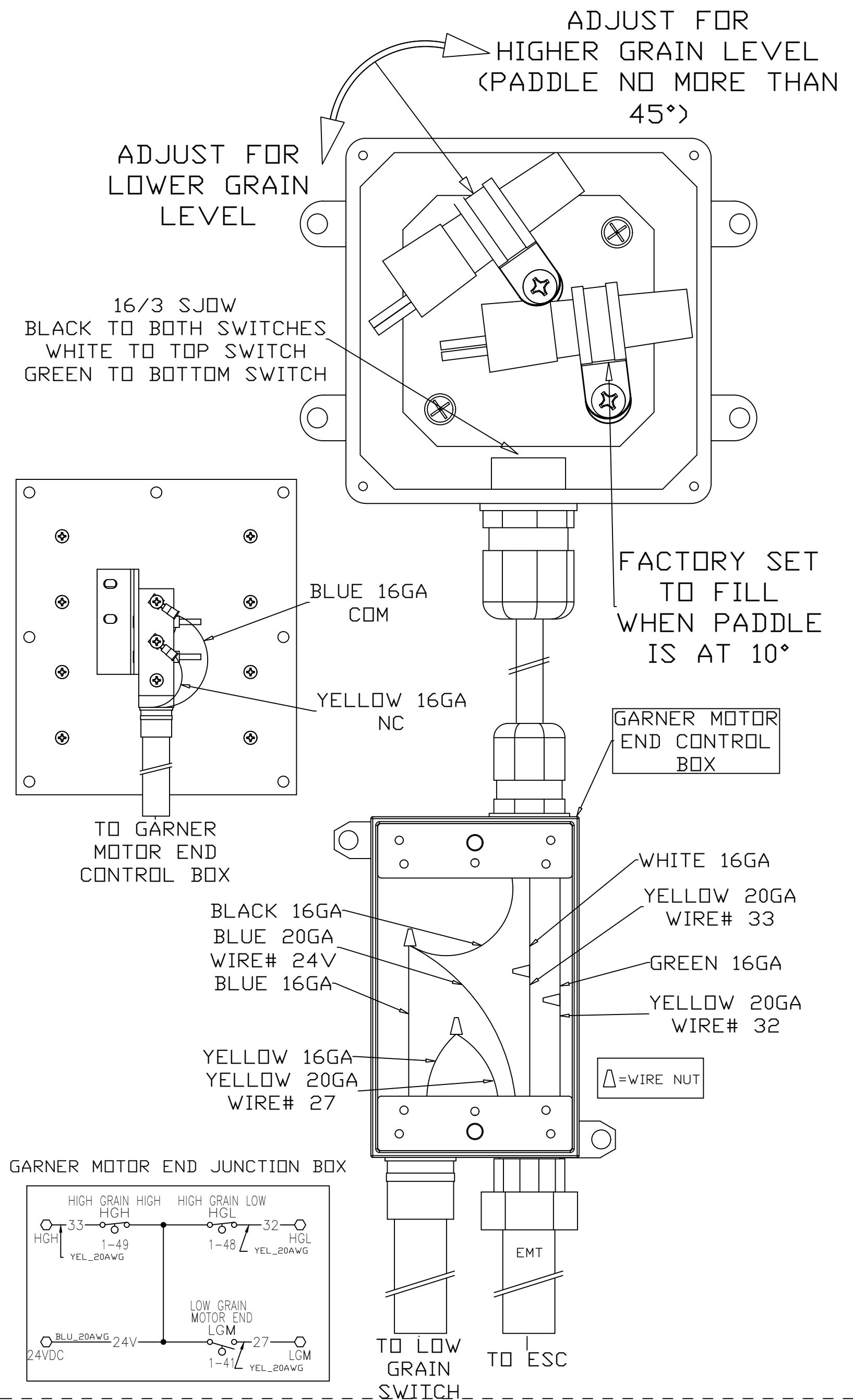


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| | | | |

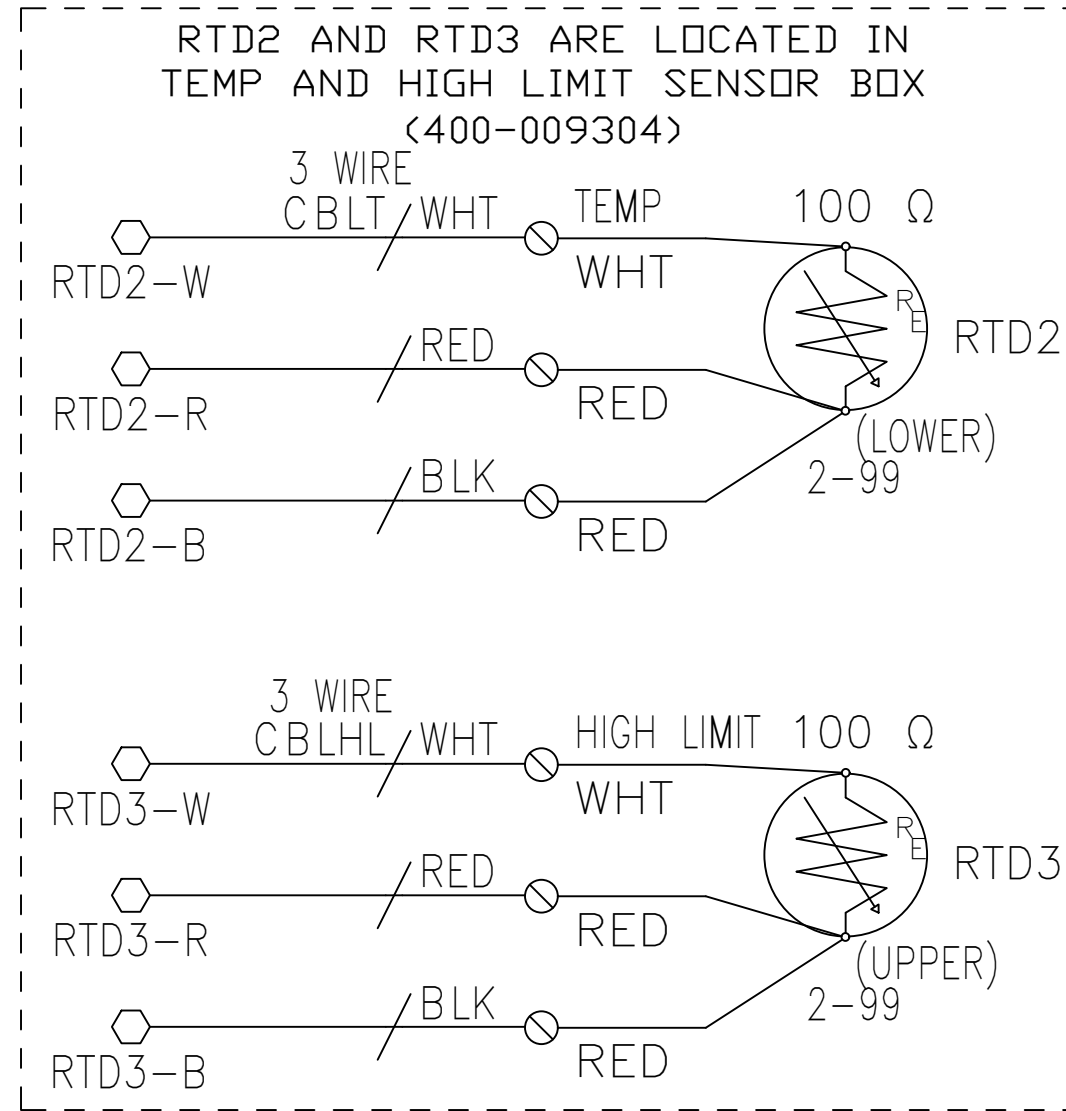
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| CHECKED BY: | | PROJECT: | TEMPLATE |
| | | | |

TERMINAL LOCATION
 ○ LOCATED IN ESC AND DCC
 □ LOCATED IN DCC ONLY

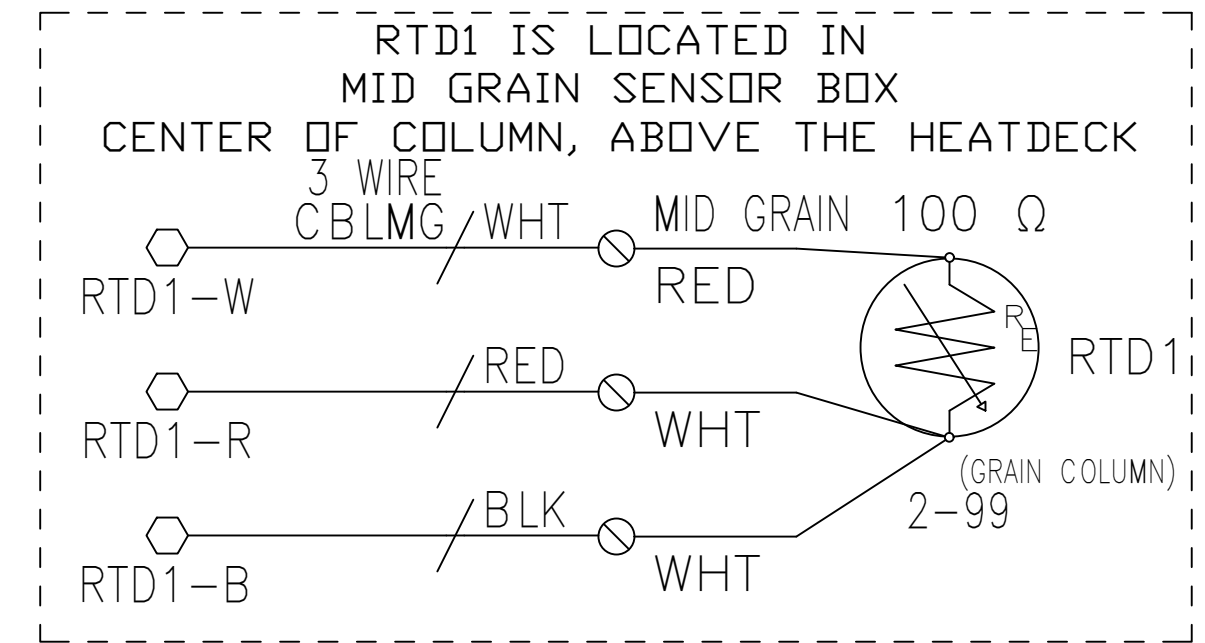
GARNER ASSEMBLY



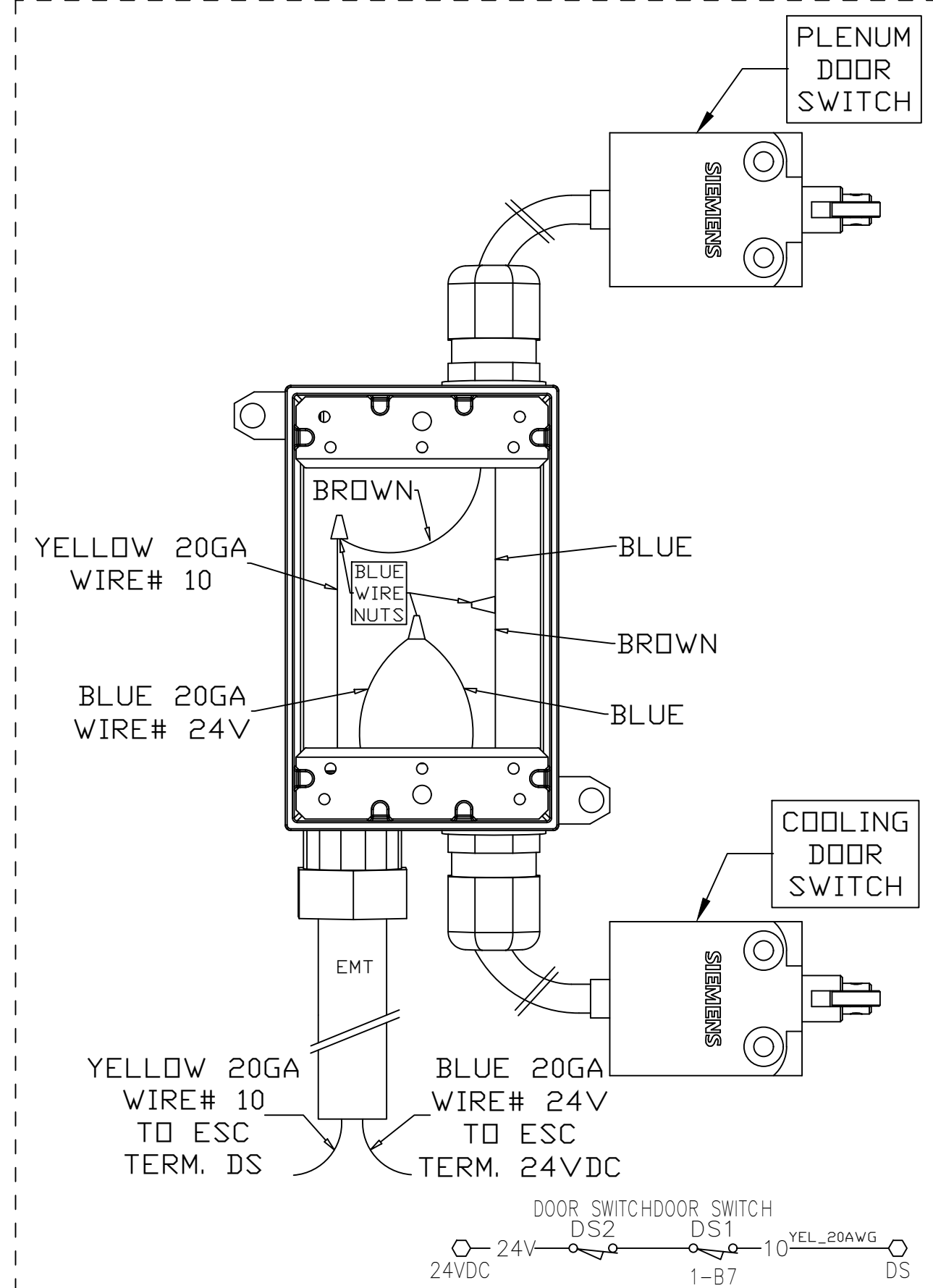
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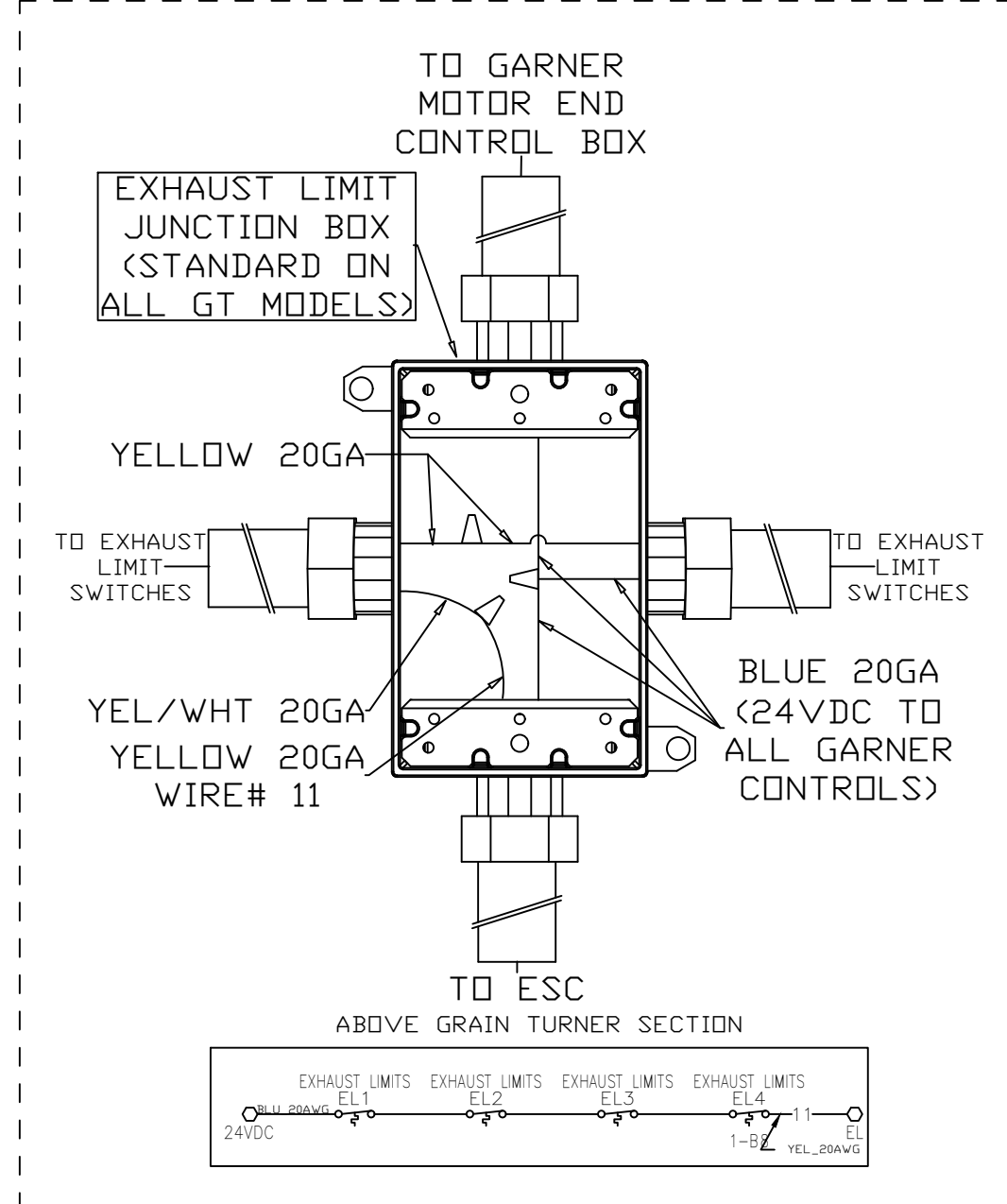
MID GRAIN SENSOR BOX



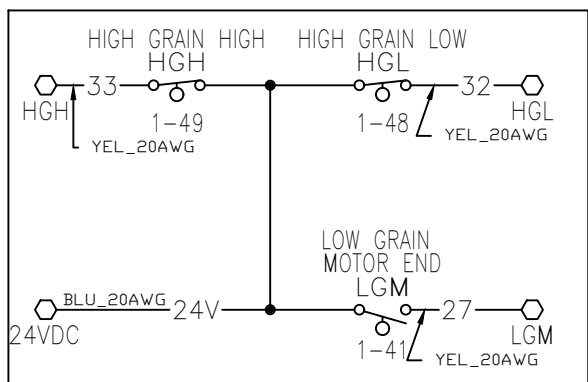
DOOR SWITCH JUNCTION BOX



EXHAUST LIMIT JUNCTION BOX (GT MODELS)

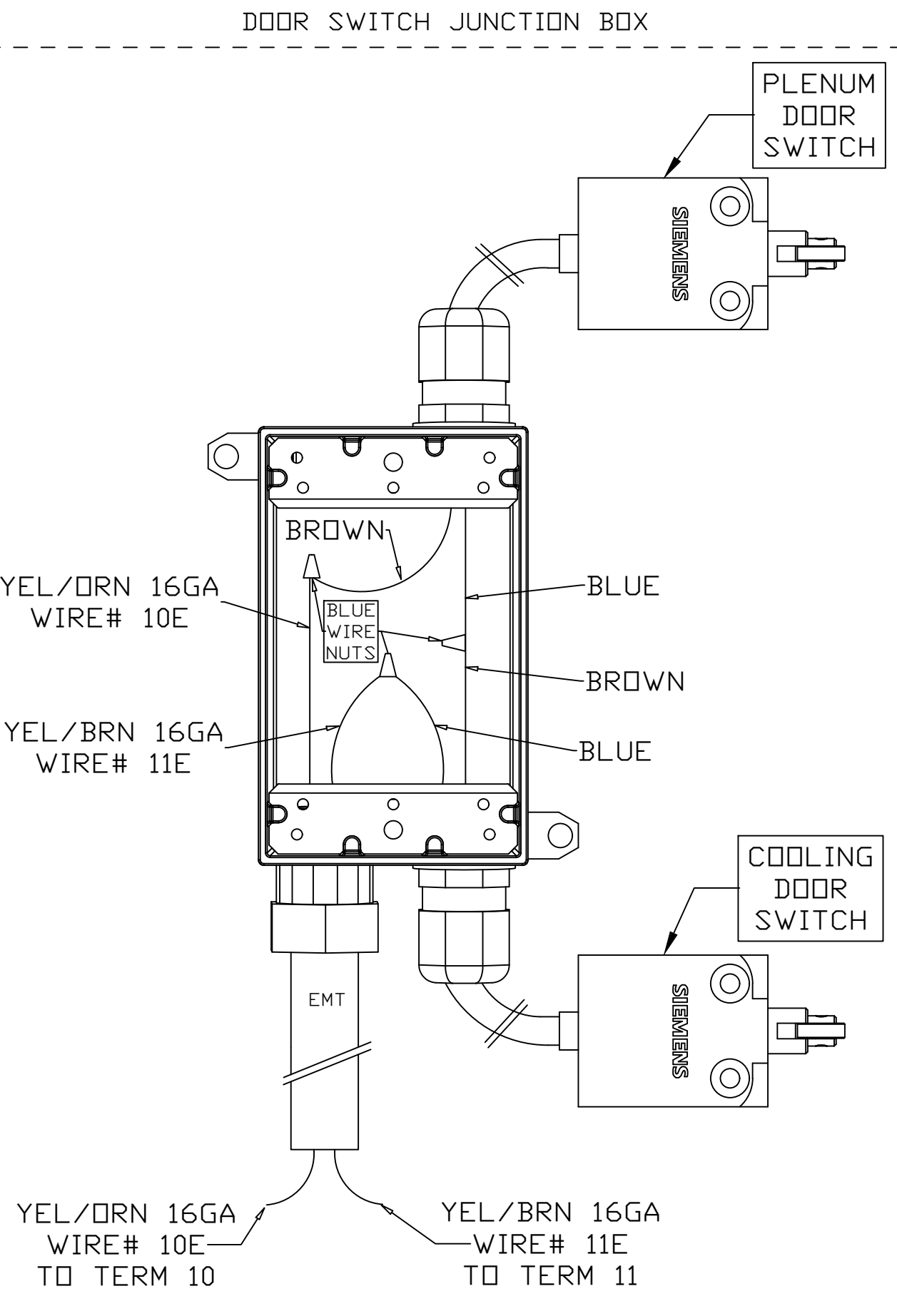
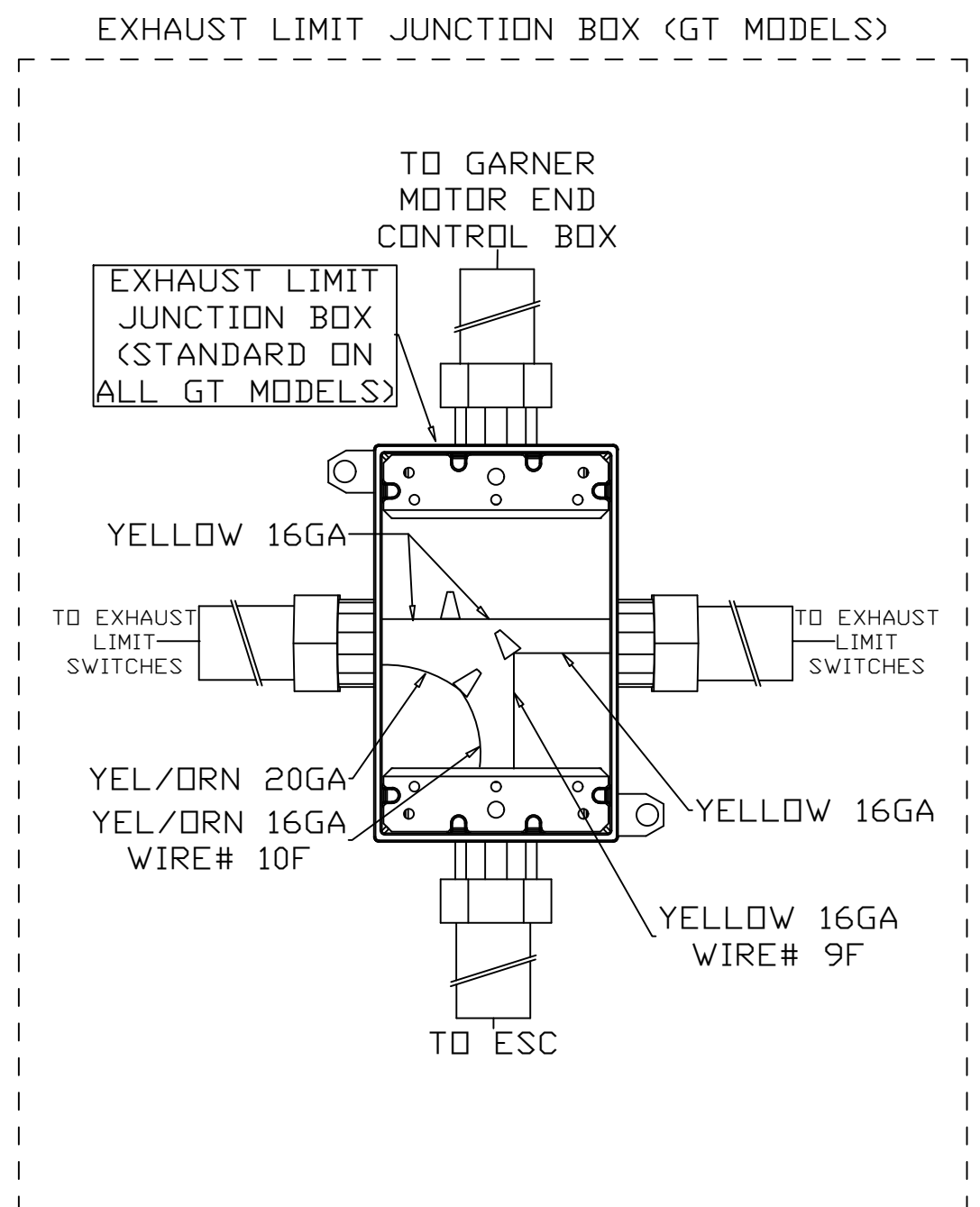
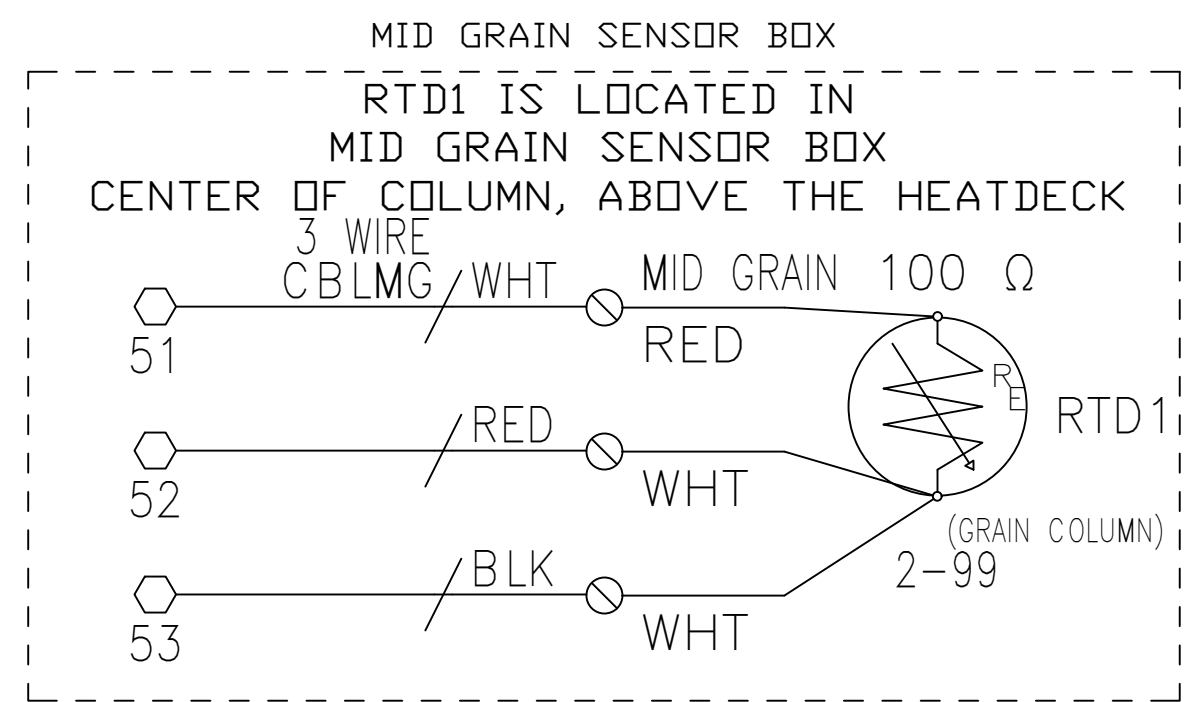
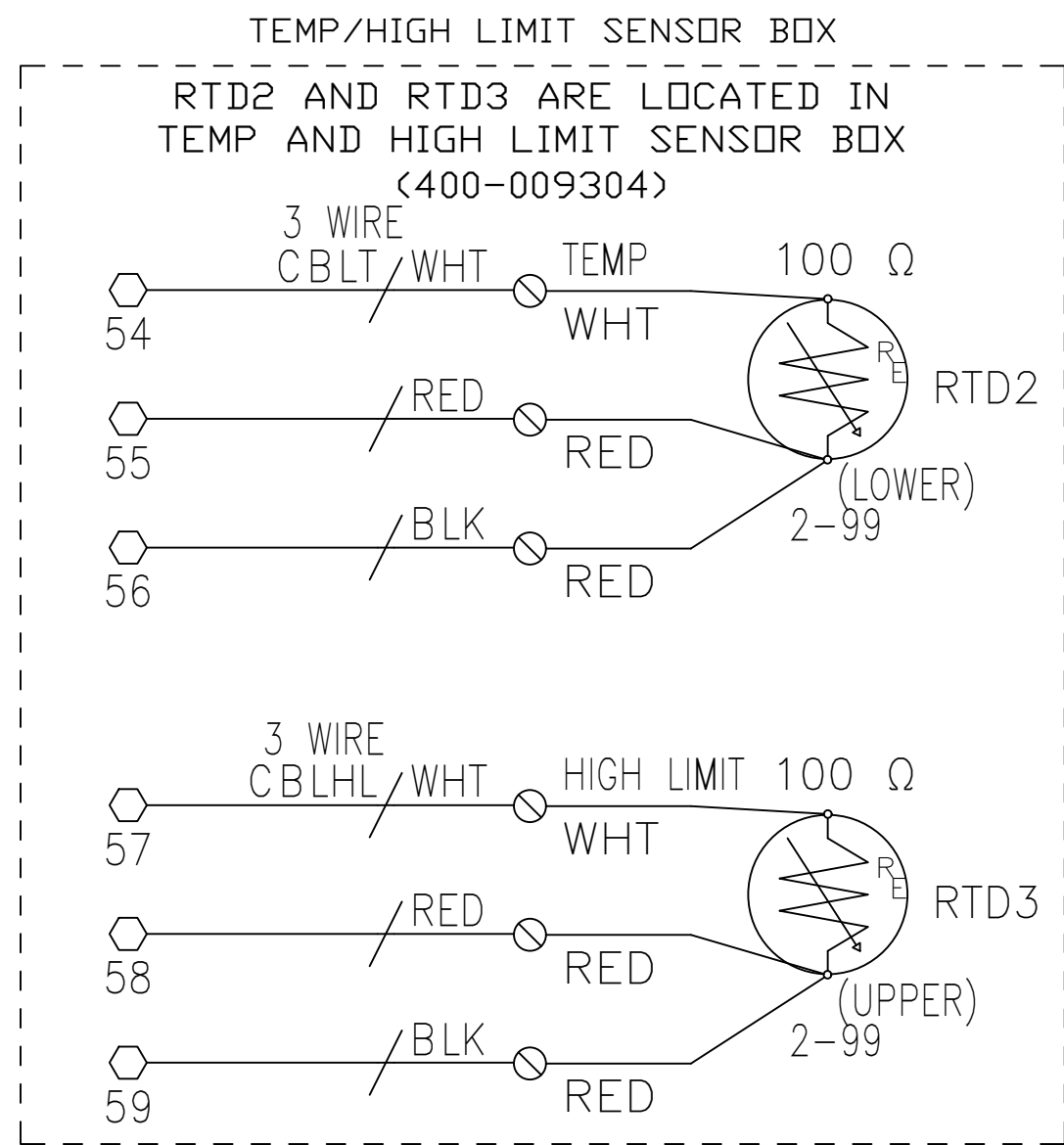
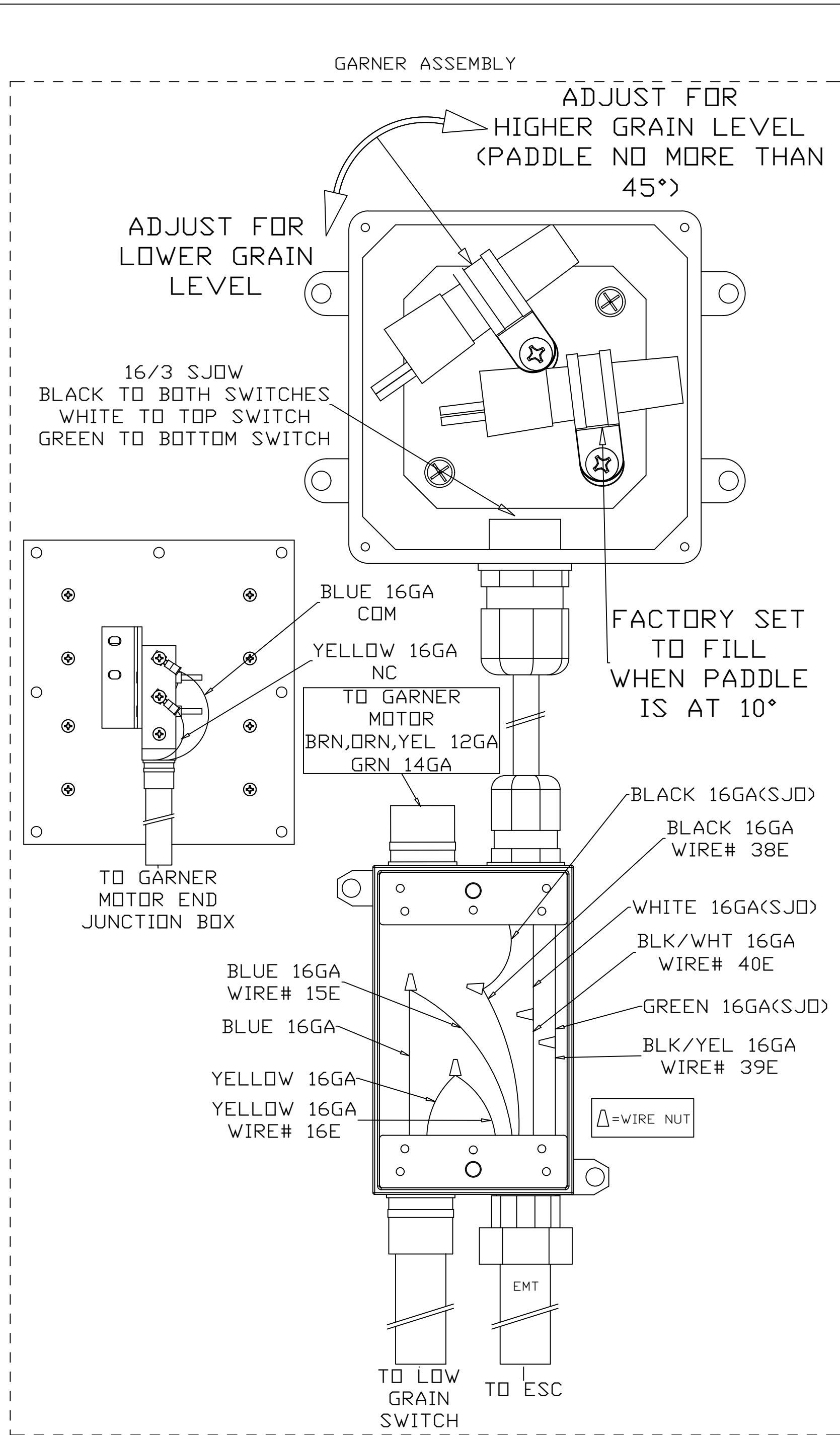


GARNER MOTOR END JUNCTION BOX



| | | | | | | | | | |
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| | | | DATE: | 01/20/2021 | | PROJECT: | | INSTALLATION | |
| | | | CHECKED BY: | | | DRAWING NO.: | | 900-012543 | |
| LET | DESCRIPTION | DATE | | | | | | | |
| REVISIONS | | | | | | | | | |
| REV. 0 | SHEET NO. 1 | OF 1 | | | | | | | |

DELUX
Continuous Flow GRAIN DRYERS



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

LADDER END

CLOSED END

- * 1 USE 040-001450 - to fasten TOE GUARDS TO WALKWAY PLANKS
- ** 3 4 USE 040-002193 & 040-001460 - to fasten SUPPORTS, BRACKETS & BRACES together.
- *** 2 5 USE 040-005321 & 040-001459 to fasten RAILINGS AND ALL OTHER SUPPORTS.

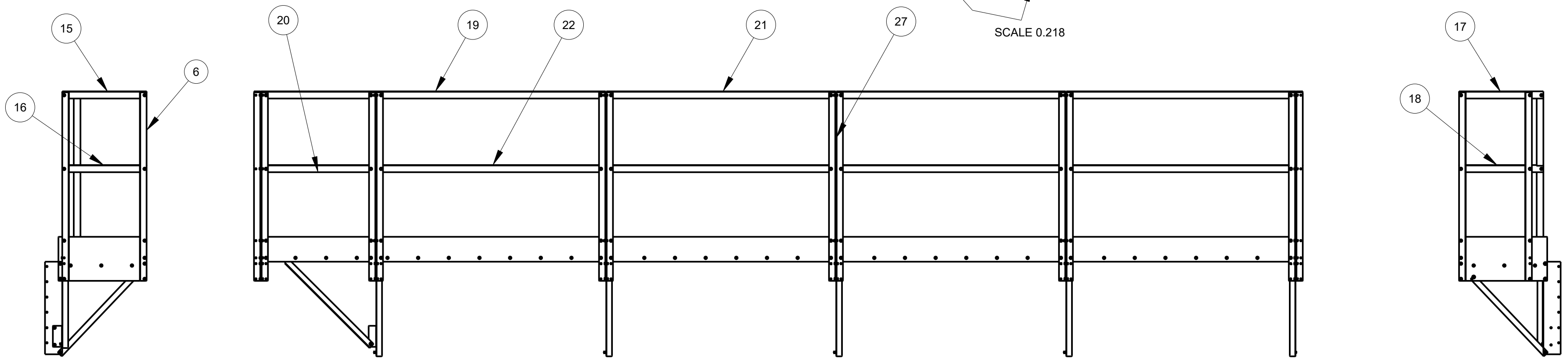
| ITEM | PART NUMBER | QTY | DESCRIPTION |
|------|-------------|-----|--|
| 1 | 040-001450 | 28 | SCREW - TCS - HEX - 5/16-18UNC X 1/2 |
| 2 | 040-001459 | 130 | NUT - WHIZ LOCK - 5/16-18UNC |
| 3 | 040-001460 | 22 | NUT - WHIZ LOCK - 3/8-16UNC |
| 4 | 040-002193 | 22 | BOLT - WHIZ LOCK - 3/8-16UNC X 3/4 |
| 5 | 040-005321 | 130 | BOLT - WHIZ LOCK - 5/16-18UNC X 3/4" |
| 6 | 100-012163 | 6 | HANDRAIL-VERTICAL-DP-DPXGT-ANGLE RAIL |
| 7 | 100-012169 | 5 | WALKWAY SUPPORT-SIDE-ANGLE RAIL |
| 8 | 100-012170 | 5 | WALKWAY BRACE-SIDE-ANGLE RAIL |
| 9 | 100-012171 | 4 | WALKWAY BRACKET-20" SIDE-ANGLE RAIL |
| 10 | 100-012172 | 10 | WALKWAY MOUNT ANGLE-20" SIDE-ANGLE RAIL |
| 11 | 100-012175 | 3 | WALKWAY TOE GUARD-60"-SIDE-ANGLE RAIL |
| 12 | 100-012176 | 1 | WALKWAY TOE GUARD-90"-SIDE-ANGLE RAIL |
| 13 | 100-012177 | 1 | WALKWAY BRACKET-LADDER END-20" SIDE-ANGLE RAIL |
| 14 | 100-012178 | 1 | WALKWAY BRACKET-CLOSED END-20" SIDE-ANGLE RAIL |
| 15 | 100-012179 | 1 | HANDRAIL-22"-TOP-ANGLE RAIL |
| 16 | 100-012180 | 1 | HANDRAIL-19"-MID-ANGLE RAIL |
| 17 | 100-012181 | 1 | HANDRAIL-19"-TOP-ANGLE RAIL |
| 18 | 100-012182 | 1 | HANDRAIL-19"-MID-ANGLE RAIL |
| 19 | 100-012183 | 1 | HANDRAIL-90"-TOP-ANGLE RAIL |
| 20 | 100-012184 | 1 | HANDRAIL-30"-MID-ANGLE RAIL |
| 21 | 100-012185 | 3 | HANDRAIL-60"-TOP-ANGLE RAIL |
| 22 | 100-012186 | 4 | HANDRAIL-60"-MID-ANGLE RAIL |
| 23 | 100-012188 | 6 | WALKWAY PLANK-10" X 60"-ANGLE RAIL |
| 24 | 100-012189 | 2 | WALKWAY PLANK-10" X 90"-ANGLE RAIL |
| 25 | 100-012192 | 1 | WALKWAY BRACE-LADDER END-ANGLE RAIL |
| 26 | 100-012193 | 1 | WALKWAY BRACKET ANGLE-LADDER END-ANGLE RAIL |
| 27 | 300-012174 | 4 | SUB ASSY-HANDRAIL-VERTICAL-DP-DPXGT-ANGLE RAIL |

REFERENCE VIEW
SCALE 0.046

CORNERS USE TWO 'HANDRAIL-VERTICAL' (6)
SANDWICHED OVER END BRACKETS.

SLIP EACH 'SUB-ASSY-HANDRAIL-VERTICAL' (27)
OVER EACH INTERMEDIATE WALKWAY BRACKET (9).

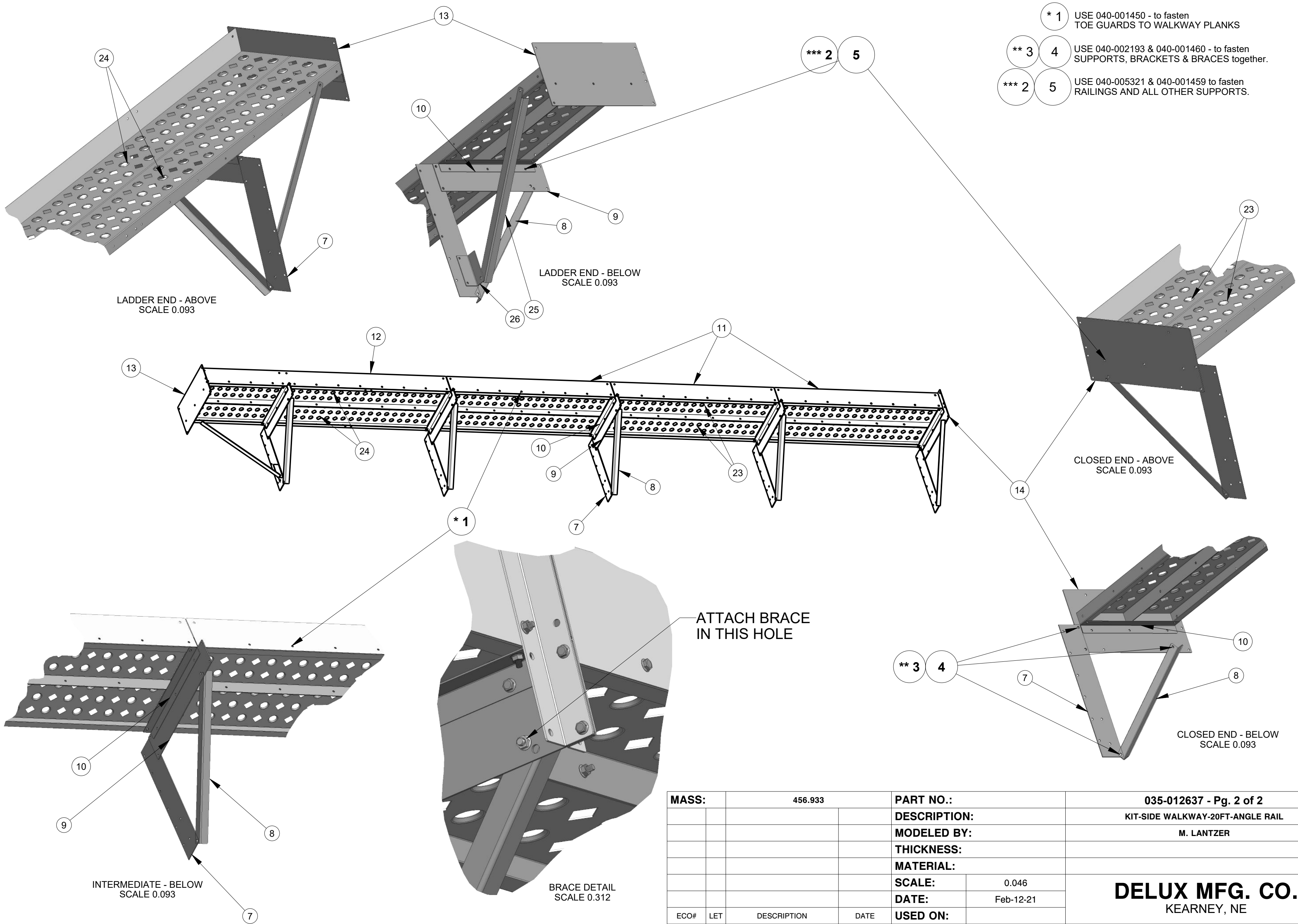
SCALE 0.218



| | | | |
|-------|---------|--------------|----------------------------------|
| MASS: | 456.933 | PART NO.: | 035-012637 - Pg. 1 of 2 |
| | | DESCRIPTION: | KIT-SIDE WALKWAY-20FT-ANGLE RAIL |
| | | MODELED BY: | M. LANTZER |
| | | THICKNESS: | |
| | | MATERIAL: | |
| | | SCALE: | 0.046 |
| | | DATE: | Feb-03-21 |
| ECO# | LET | DESCRIPTION | DATE |
| | | USED ON: | |

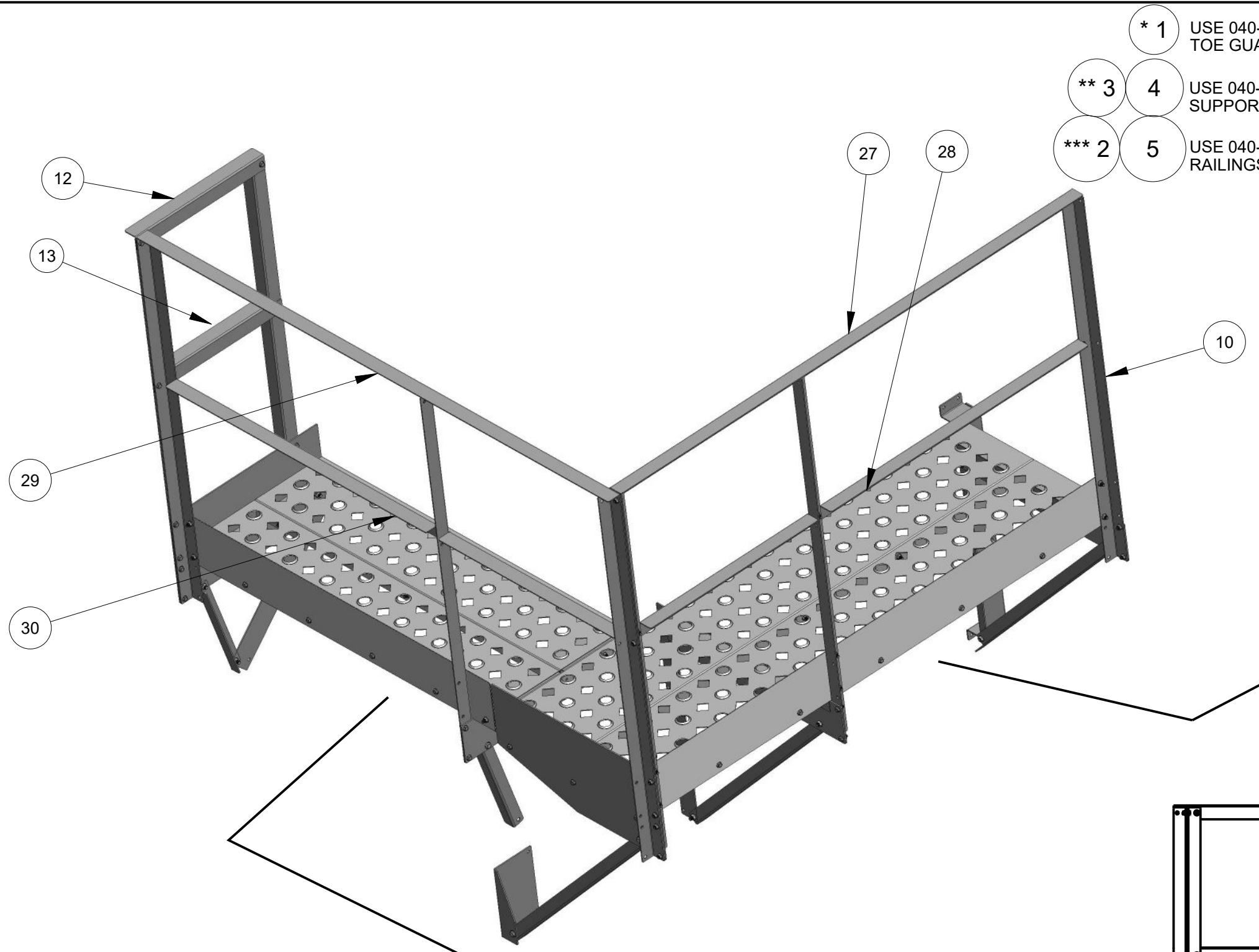
DELUX MFG. CO.
KEARNEY, NE

TOLERANCE: DECIMAL ±.010 FRACTION ±1/32 ANGLE ±1° UNLESS OTHERWISE SPECIFIED



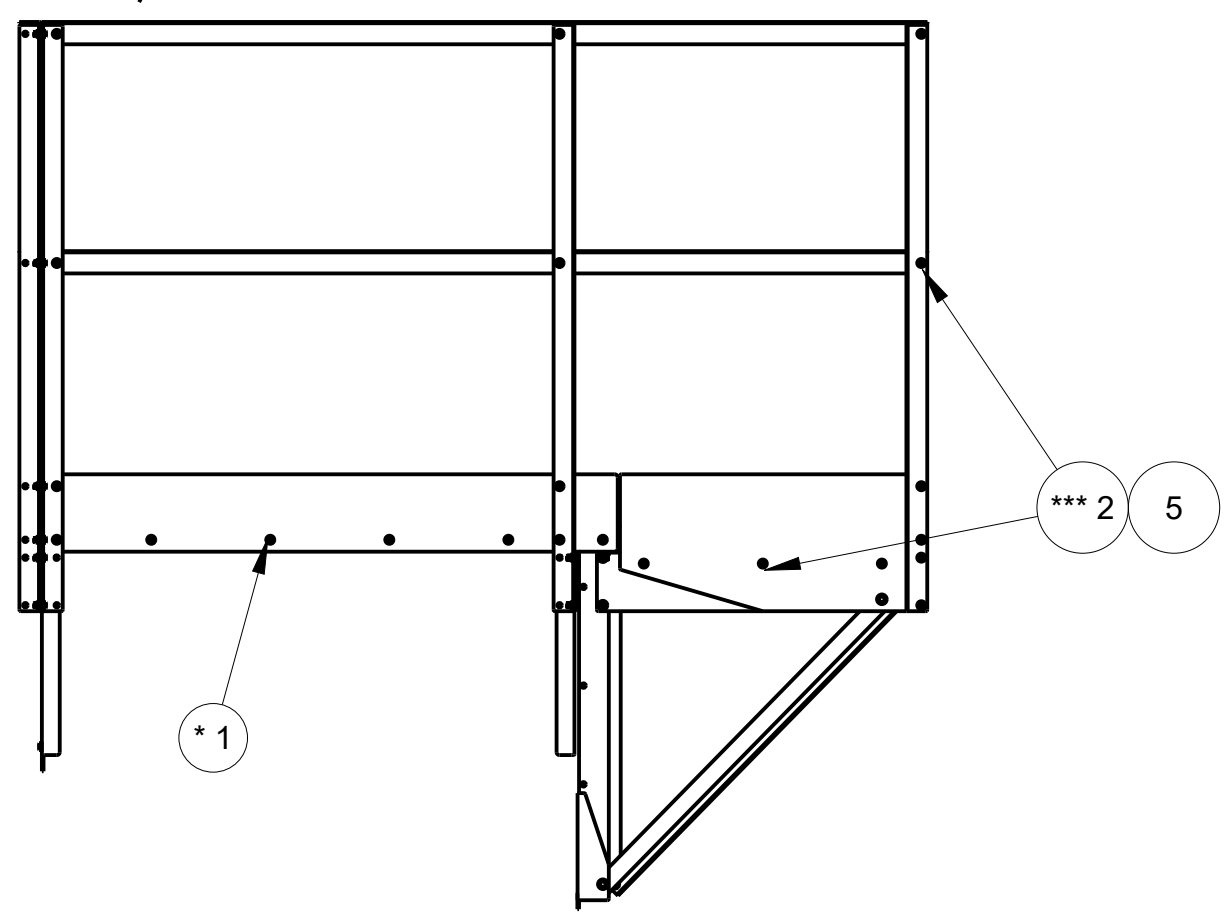
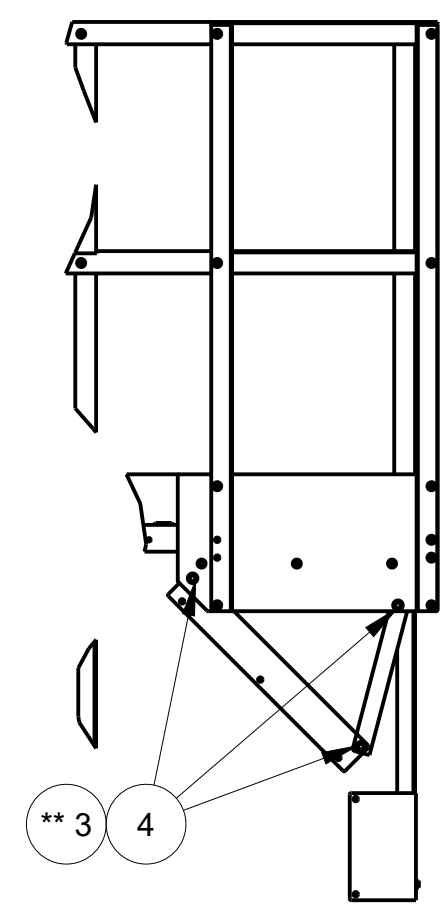
- * 1 USE 040-001450 - to fasten TOE GUARDS TO WALKWAY PLANKS
- ** 3 4 USE 040-002193 & 040-001460 - to fasten SUPPORTS, BRACKETS & BRACES together.
- *** 2 5 USE 040-005321 & 040-001459 to fasten RAILINGS AND ALL OTHER SUPPORTS.

| | | | | | |
|--|-----|-------------|---------------------|-----------------|--------------------------------------|
| MASS: | | 456.933 | PART NO.: | | 035-012637 - Pg. 2 of 2 |
| | | | DESCRIPTION: | | KIT-SIDE WALKWAY-20FT-ANGLE RAIL |
| | | | MODELED BY: | | M. LANTZER |
| | | | THICKNESS: | | |
| | | | MATERIAL: | | |
| | | | SCALE: | 0.046 | DELUX MFG. CO. KEARNEY, NE |
| | | | DATE: | Feb-12-21 | |
| ECO# | LET | DESCRIPTION | DATE | USED ON: | |
| TOLERANCE: DECIMAL ±.010 FRACTION ±1/32 ANGLE ±1° UNLESS OTHERWISE SPECIFIED | | | | | |

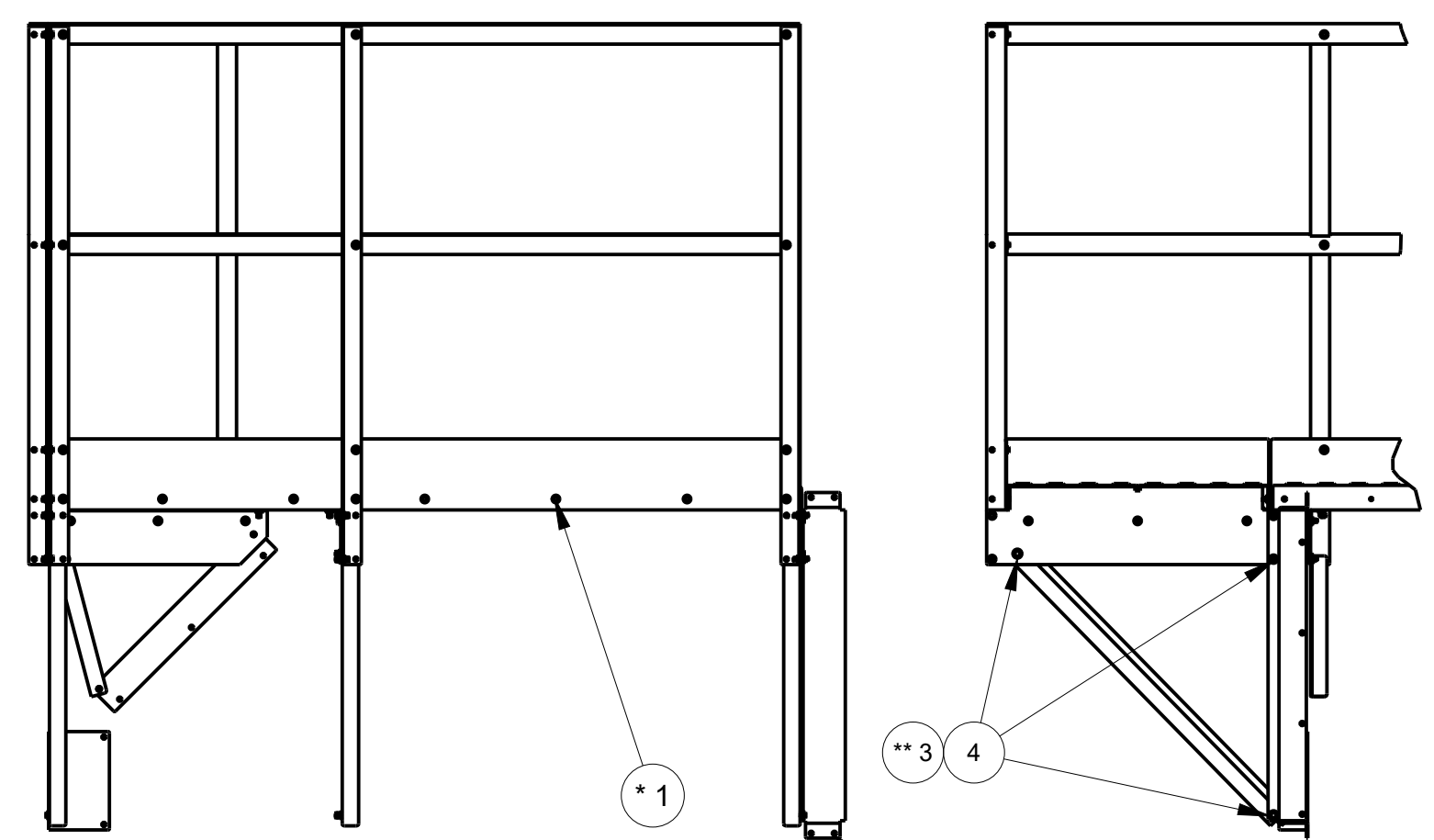


- * 1 USE 040-001450 - to fasten TOE GUARDS TO WALKWAY PLANKS
- ** 3 4 USE 040-002193 & 040-001460 - to fasten SUPPORTS, BRACKETS & BRACES together.
- *** 2 5 USE 040-005321 & 040-001459 to fasten RAILINGS AND ALL OTHER SUPPORTS.

| ITEM | PART NUMBER | QTY | DESCRIPTION |
|------|-------------|-----|--|
| 1 | 040-001450 | 9 | SCREW - TCS - HEX - 5/16-18UNC X 1/2 |
| 2 | 040-001459 | 86 | NUT - WHIZ LOCK - 5/16-18UNC |
| 3 | 040-001460 | 14 | NUT - WHIZ LOCK - 3/8-16UNC |
| 4 | 040-002193 | 14 | BOLT - WHIZ LOCK - 3/8-16UNC X 3/4 |
| 5 | 040-005321 | 86 | BOLT - WHIZ LOCK - 5/16-18UNC X 3/4" |
| 6 | 100-012157 | 1 | WALKWAY SUPPORT-LEFT-GARNER & PLENUM-ANGLE RAIL |
| 7 | 100-012158 | 3 | WALKWAY BRACE-GARNER & PLENUM-ANGLE RAIL |
| 8 | 100-012159 | 1 | WALKWAY BRACKET RIGHT-GARNER & PLENUM-ANGLE RAIL |
| 9 | 100-012161 | 4 | WALKWAY MOUNT ANGLE-GARNER/PLENUM-ANGLE RAIL |
| 10 | 100-012163 | 8 | HANDRAIL-VERTICAL-DP-DPXGT-ANGLE RAIL |
| 11 | 100-012172 | 2 | WALKWAY MOUNT ANGLE-20" SIDE-ANGLE RAIL |
| 12 | 100-012181 | 1 | HANDRAIL-19"-TOP-ANGLE RAIL |
| 13 | 100-012182 | 1 | HANDRAIL-19"-MID-ANGLE RAIL |
| 14 | 100-012195 | 2 | WALKWAY BRACE-TOP SLOPE-SIDE-ANGLE RAIL |
| 15 | 100-012197 | 1 | WALKWAY SUPPORT-RIGHT-GARNER & PLENUM-ANGLE RAIL |
| 16 | 100-012203 | 1 | WALKWAY BRACKET-24" FRONT/REAR-ANGLE RAIL |
| 17 | 100-012204 | 1 | WALKWAY BRACKET-LEFT-24" FRONT/REAR-ANGLE RAIL |
| 18 | 100-012205 | 1 | WALKWAY BRACKET-INTER-.20"-TOP SLOPE-ANGLE RAIL |
| 19 | 100-012206 | 1 | WALKWAY BRACKET-LEFT-20" TOP SLOPE-ANGLE RAIL |
| 20 | 100-012207 | 1 | WALKWAY SUPPORT-LEFT-20" TOP SLOPE-ANGLE RAIL |
| 21 | 100-012208 | 1 | WALKWAY BRACKET ANGLE-FRONT/REAR LEFT-ANGLE RAIL |
| 22 | 100-012209 | 1 | WALKWAY END CHANNEL-RIGHT-20" TOP SLOPE-ANGLE RAIL |
| 23 | 100-012210 | 1 | WALKWAY TOEGUARD-FRONT/REAR-GARNER-ANGLE RAIL |
| 24 | 100-012211 | 1 | WALKWAY TOEGUARD-TOP SLOPE-DPX GARNER-ANGLE RAIL |
| 25 | 100-012212 | 2 | WALKWAY PLANK-12" X 68.5"-FRONT/REAR-GARNER-ANGLE RAIL |
| 26 | 100-012213 | 2 | WALKWAY PLANK-10" X 48"-TOP SLOPE-ANGLE RAIL |
| 27 | 100-012214 | 1 | HANDRAIL-68.5"-TOP-FRONT/REAR-GARNER-ANGLE RAIL |
| 28 | 100-012215 | 1 | HANDRAIL-68.5"-MID-FRONT/REAR-GARNER-ANGLE RAIL |
| 29 | 100-012216 | 1 | HANDRAIL-74.5"-TOP-TOP SLOPE-GARNER-ANGLE RAIL |
| 30 | 100-012217 | 1 | HANDRAIL-74.5"-MID-TOP SLOPE-GARNER-ANGLE RAIL |
| 31 | 040-002739 | 4 | SCREW TCS HEX 5/16-18UNC X 3/4 ZINC |



SIDE - TOP SLOPE
SCALE 0.062
(REF Pg. 3)

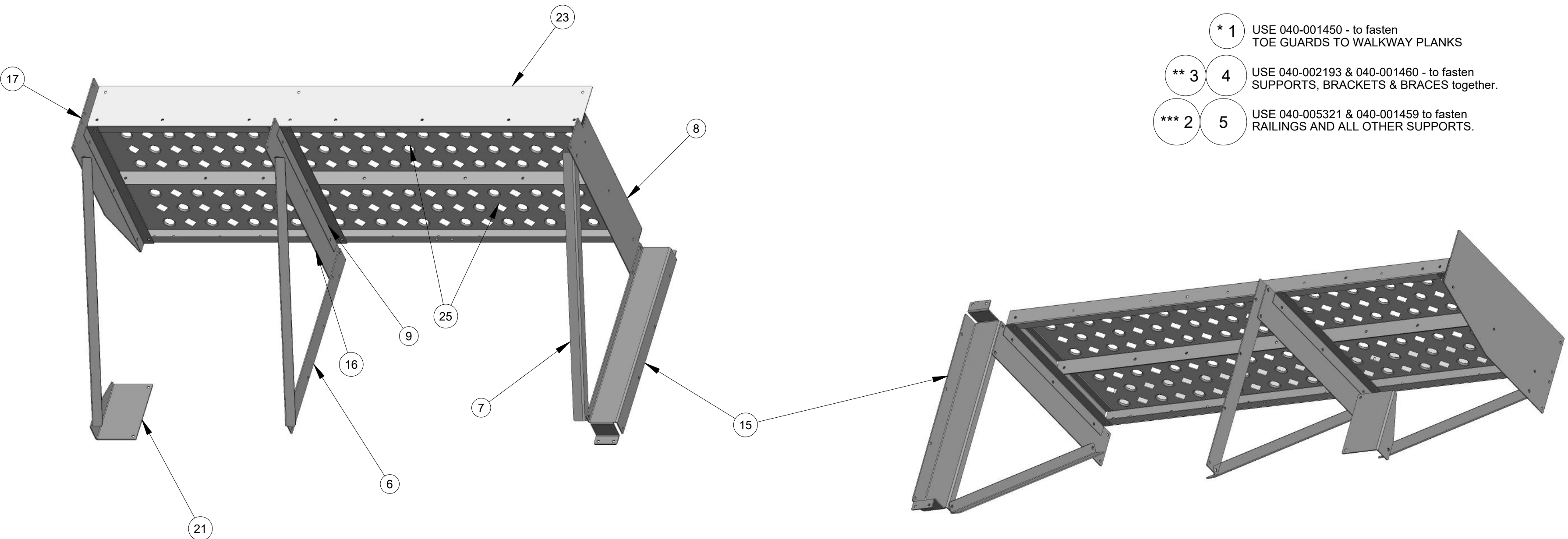


FRONT
SCALE 0.062
(REF. Pg. 2)

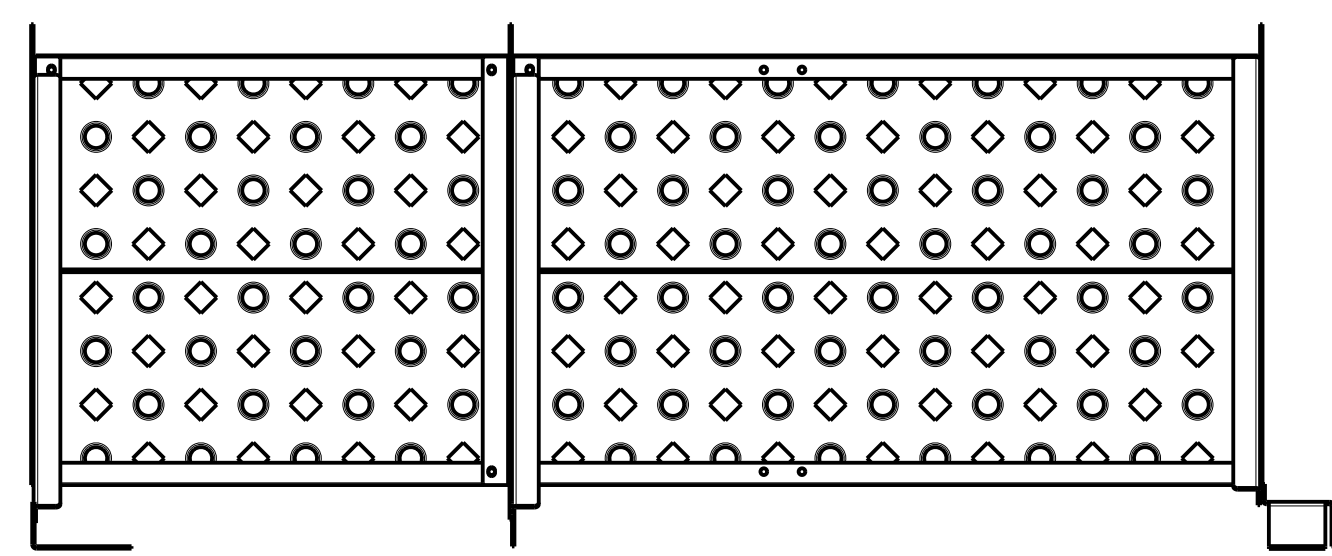
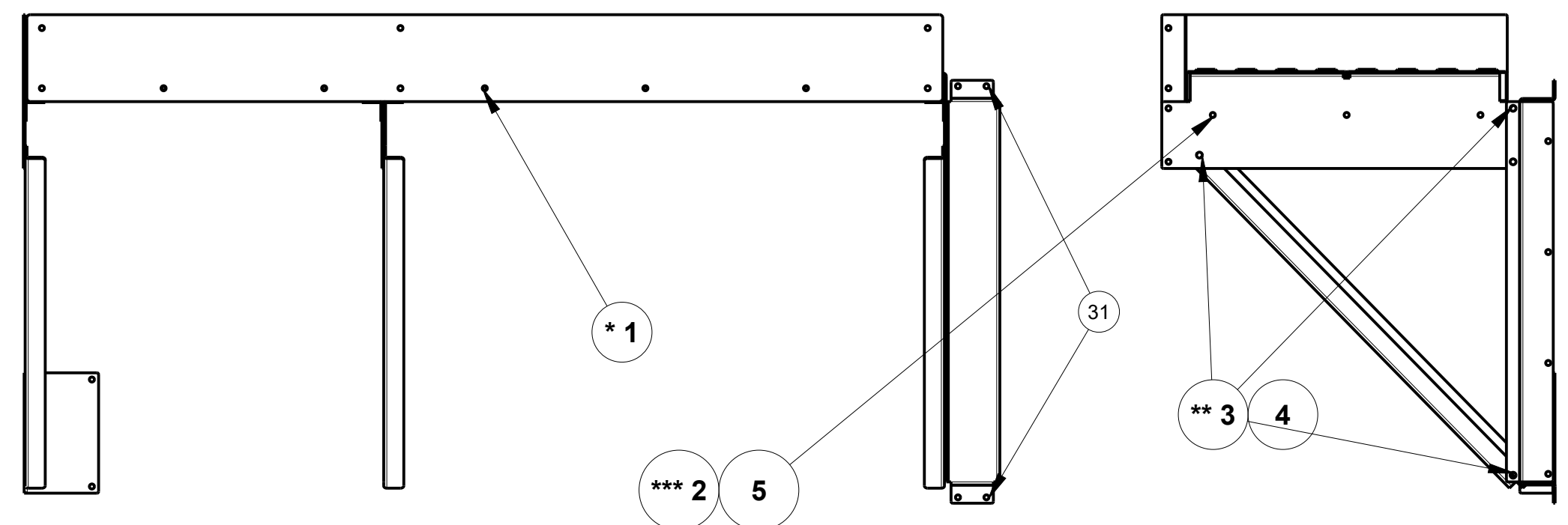
| | | | |
|-------|---------|--------------|-------------------------------|
| MASS: | 258.727 | PART NO.: | 035-012636 - Pg. 1 of 4 |
| | | DESCRIPTION: | KIT-WALKWAY-GARNER-ANGLE RAIL |
| | | MODELED BY: | M. LANTZER |
| | | THICKNESS: | |
| | | MATERIAL: | |
| | | SCALE: | 0.078 |
| | | DATE: | Jan-25-21 |
| ECO# | LET | DESCRIPTION | DATE |
| | | | |

DELUX MFG. CO.
KEARNEY, NE

TOLERANCE: DECIMAL ±.010 FRACTION ±1/32 ANGLE ±1° UNLESS OTHERWISE SPECIFIED



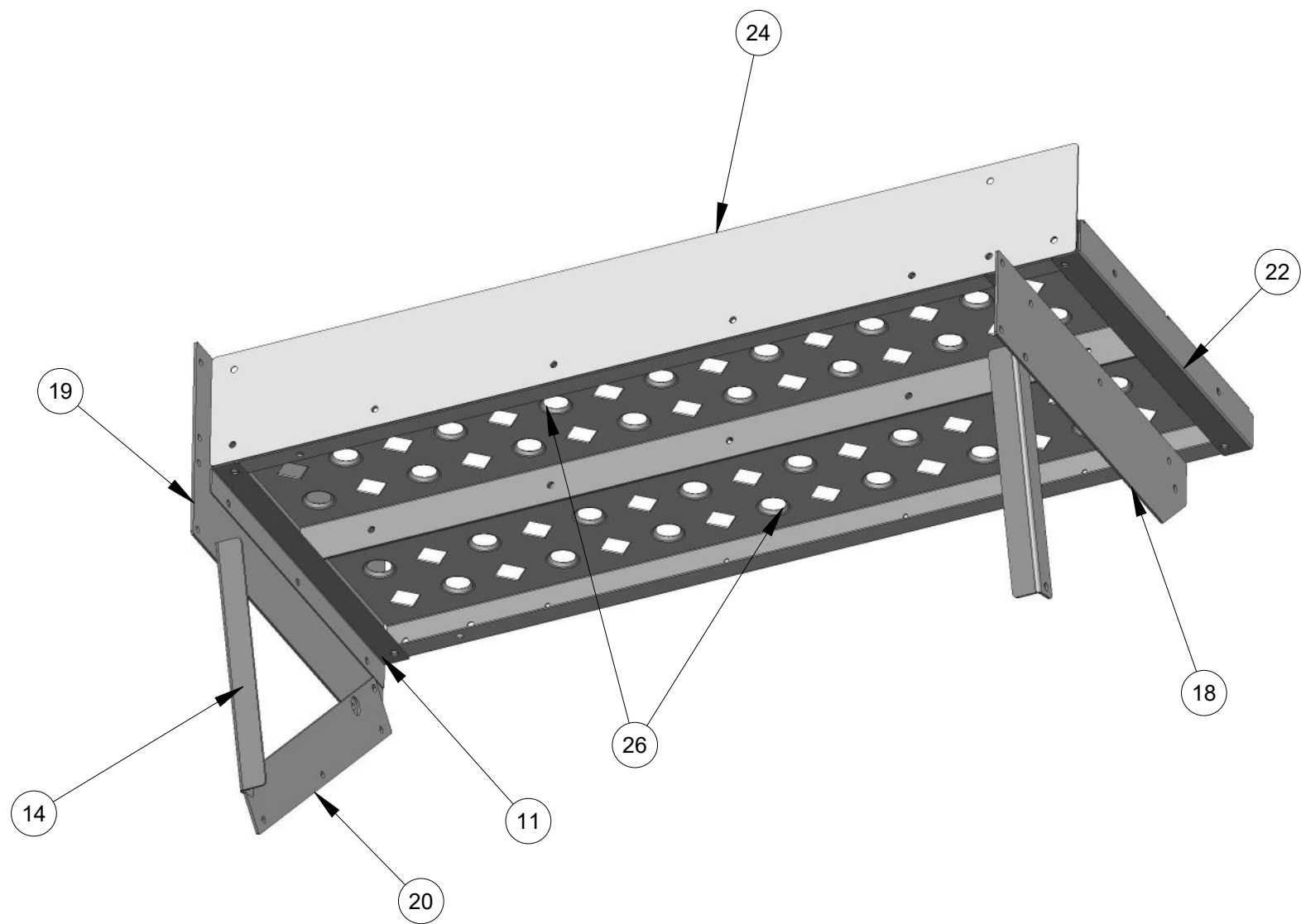
- * 1 USE 040-001450 - to fasten TOE GUARDS TO WALKWAY PLANKS
- ** 3 4 USE 040-002193 & 040-001460 - to fasten SUPPORTS, BRACKETS & BRACES together.
- *** 2 5 USE 040-005321 & 040-001459 to fasten RAILINGS AND ALL OTHER SUPPORTS.



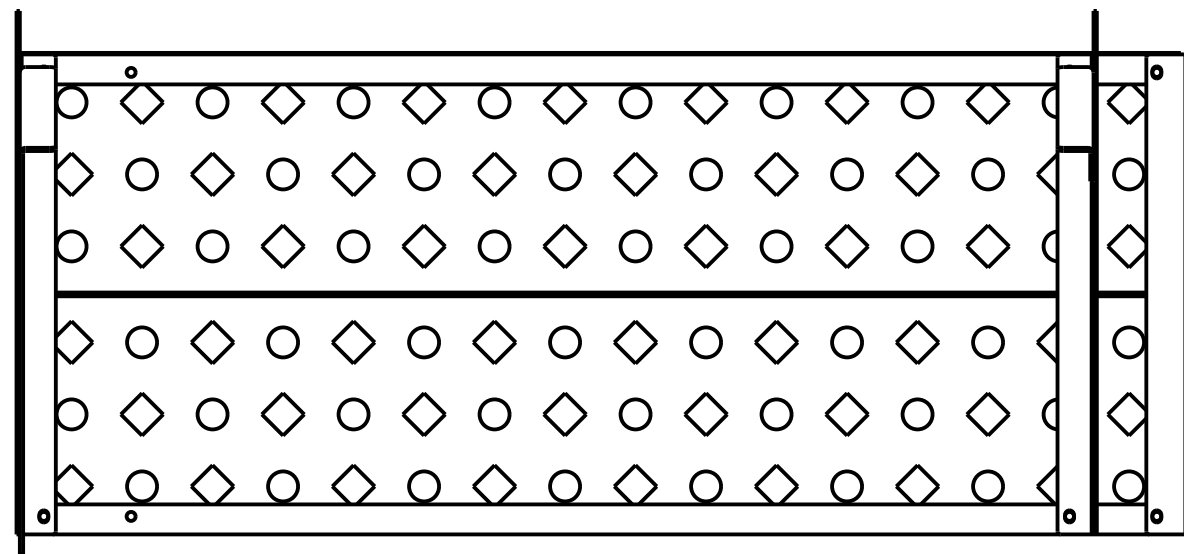
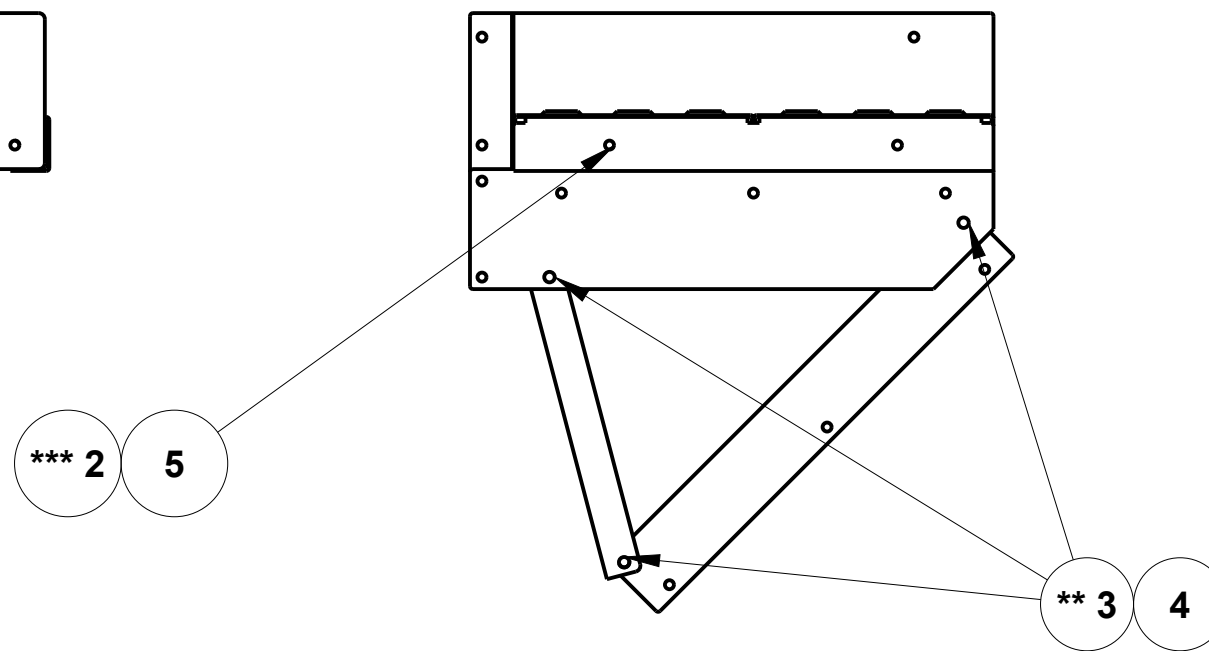
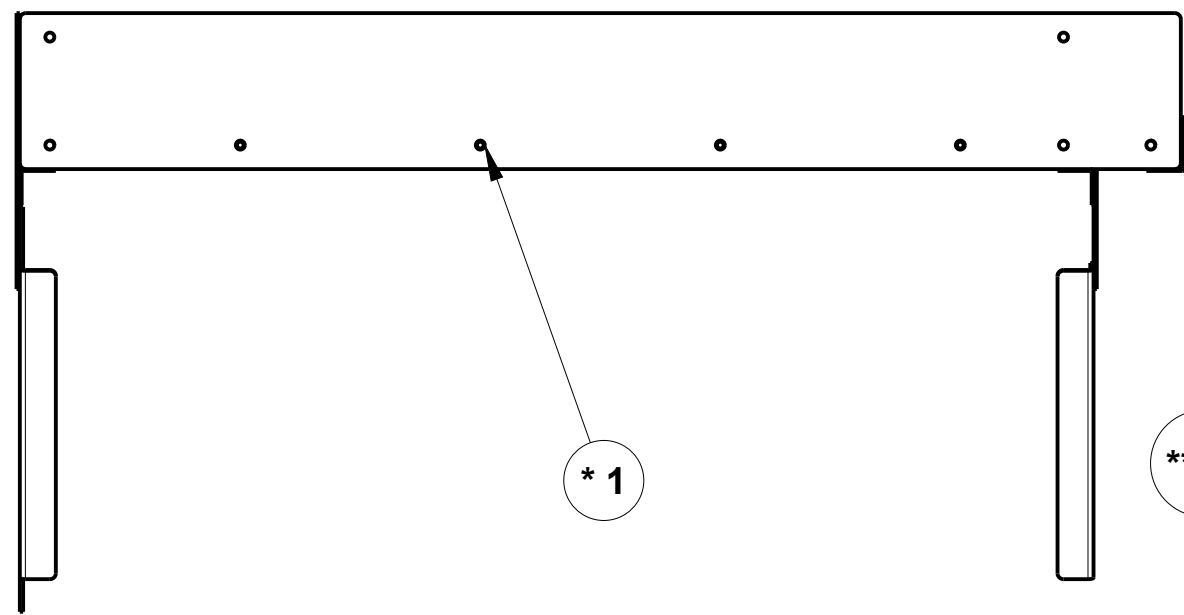
FRONT

| | | | | | |
|--------------|-----|-------------|---------------------|-----------------|--------------------------------------|
| MASS: | | 258.727 | PART NO.: | | 035-012636 - Pg. 2 of 4 |
| | | | DESCRIPTION: | | KIT-WALKWAY-GARNER-ANGLE RAIL |
| | | | MODELED BY: | | M. LANTZER |
| | | | THICKNESS: | | |
| | | | MATERIAL: | | |
| | | | SCALE: | 0.093 | DELUX MFG. CO. KEARNEY, NE |
| | | | DATE: | Feb-03-21 | |
| ECO# | LET | DESCRIPTION | DATE | USED ON: | |

TOLERANCE: DECIMAL ±.010 FRACTION ±1/32 ANGLE ±1° UNLESS OTHERWISE SPECIFIED



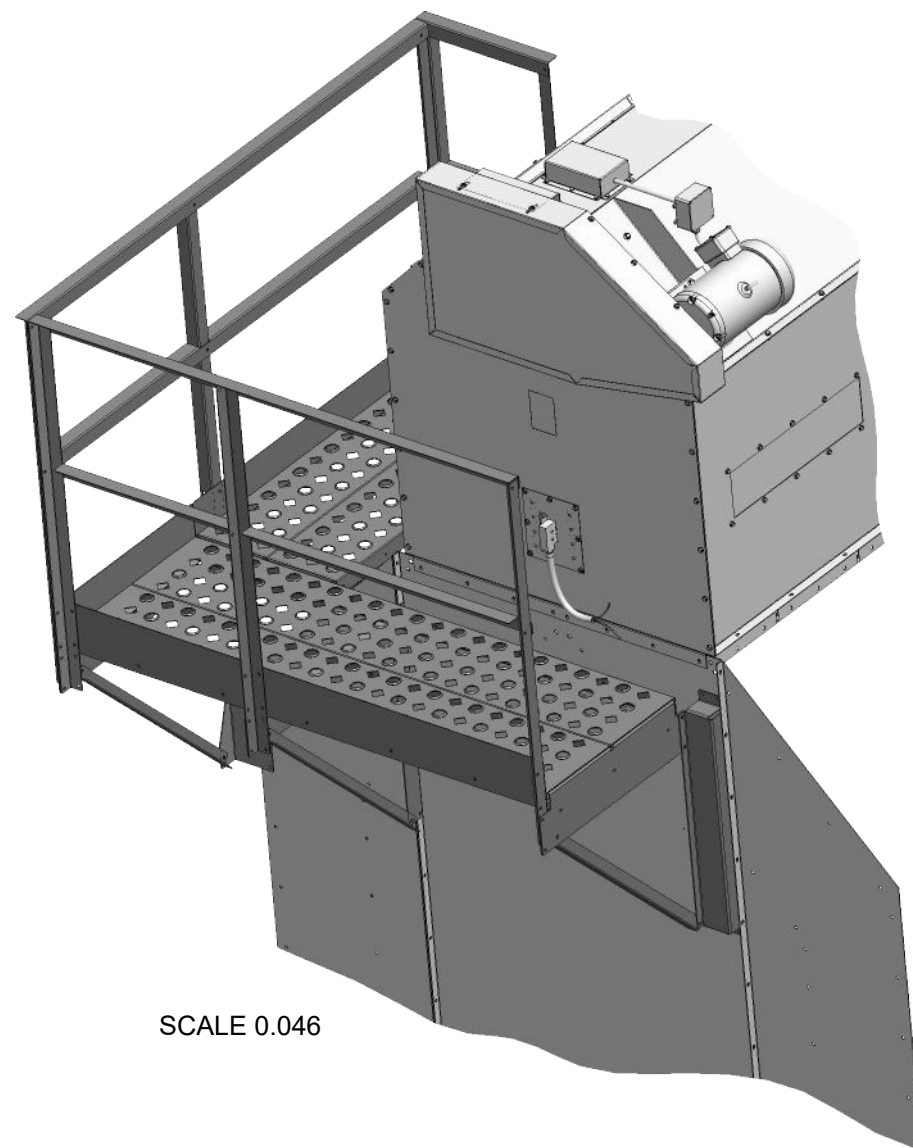
- * 1 USE 040-001450 - to fasten TOE GUARDS TO WALKWAY PLANKS
- ** 3 4 USE 040-002193 & 040-001460 - to fasten SUPPORTS, BRACKETS & BRACES together.
- *** 2 5 USE 040-005321 & 040-001459 to fasten RAILINGS AND ALL OTHER SUPPORTS.



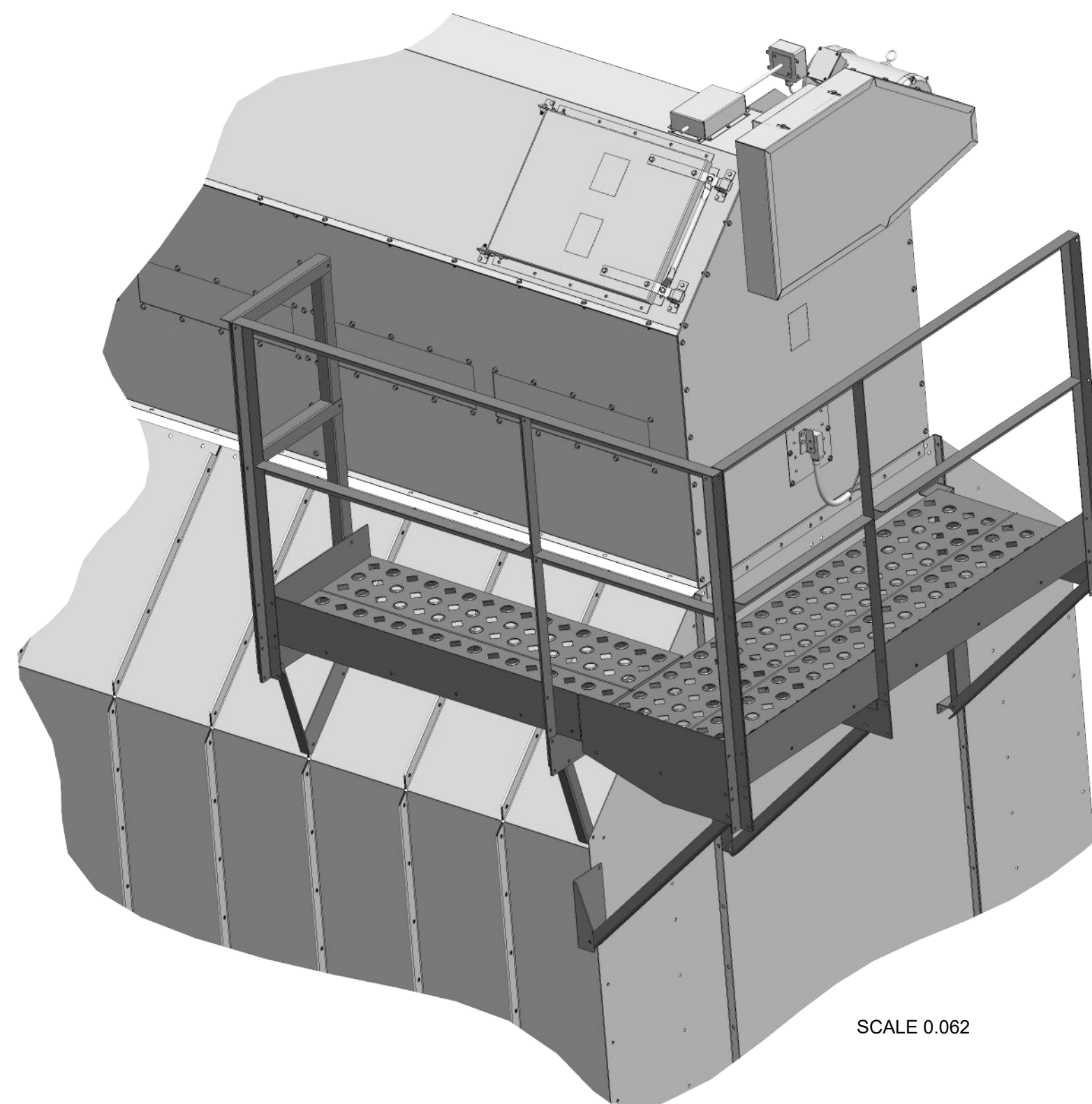
SIDE - TOP SLOPE

| | | | | | |
|--------------|------------|--------------------|---------------------|-----------------|--------------------------------------|
| MASS: | | 258.727 | PART NO.: | | 035-012636 - Pg. 3 of 4 |
| | | | DESCRIPTION: | | KIT-WALKWAY-GARNER-ANGLE RAIL |
| | | | MODELED BY: | | M. LANTZER |
| | | | THICKNESS: | | |
| | | | MATERIAL: | | |
| | | | SCALE: | 0.125 | DELUX MFG. CO. KEARNEY, NE |
| | | | DATE: | Feb-03-21 | |
| ECO# | LET | DESCRIPTION | DATE | USED ON: | |

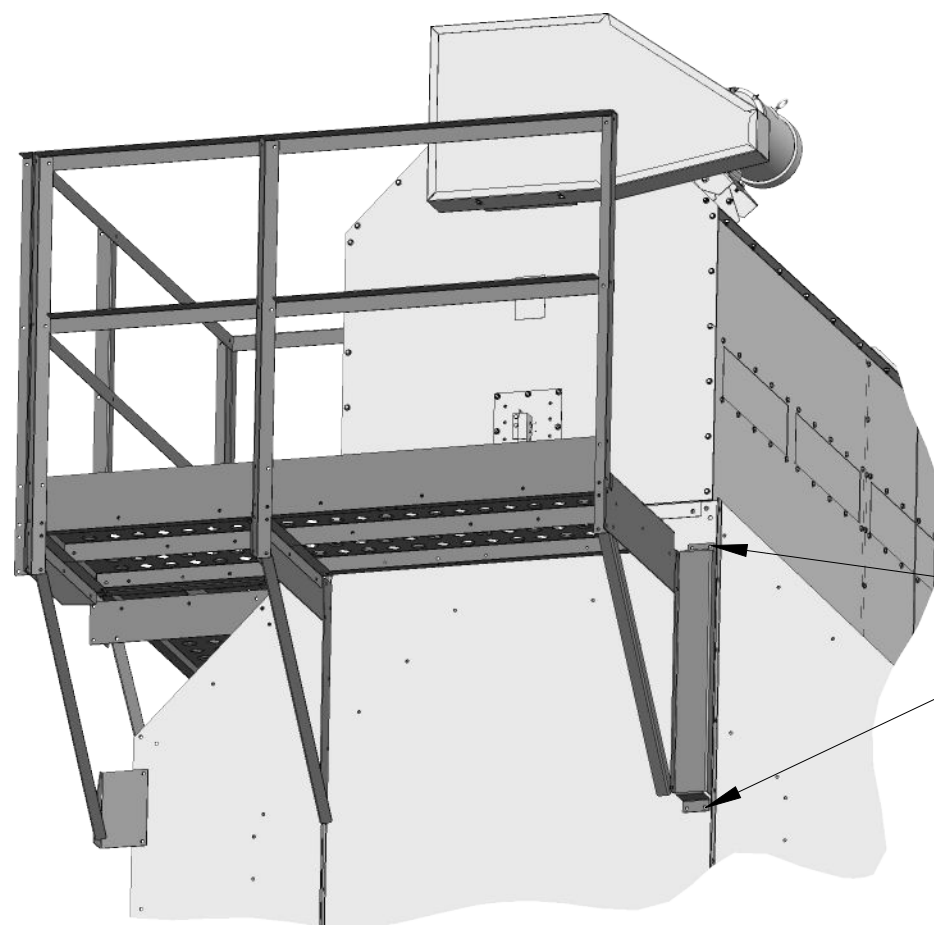
TOLERANCE: DECIMAL ±.010 FRACTION ±1/32 ANGLE ±1° UNLESS OTHERWISE SPECIFIED



SCALE 0.046



SCALE 0.062



SCALE 0.046

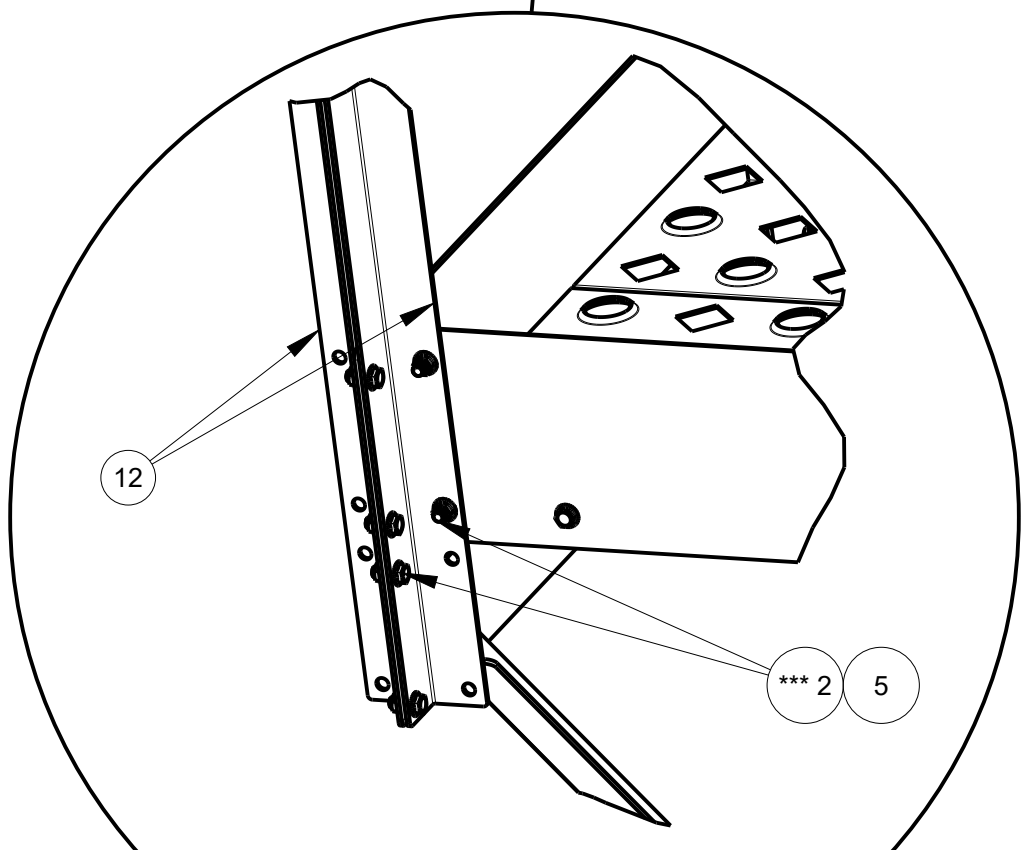
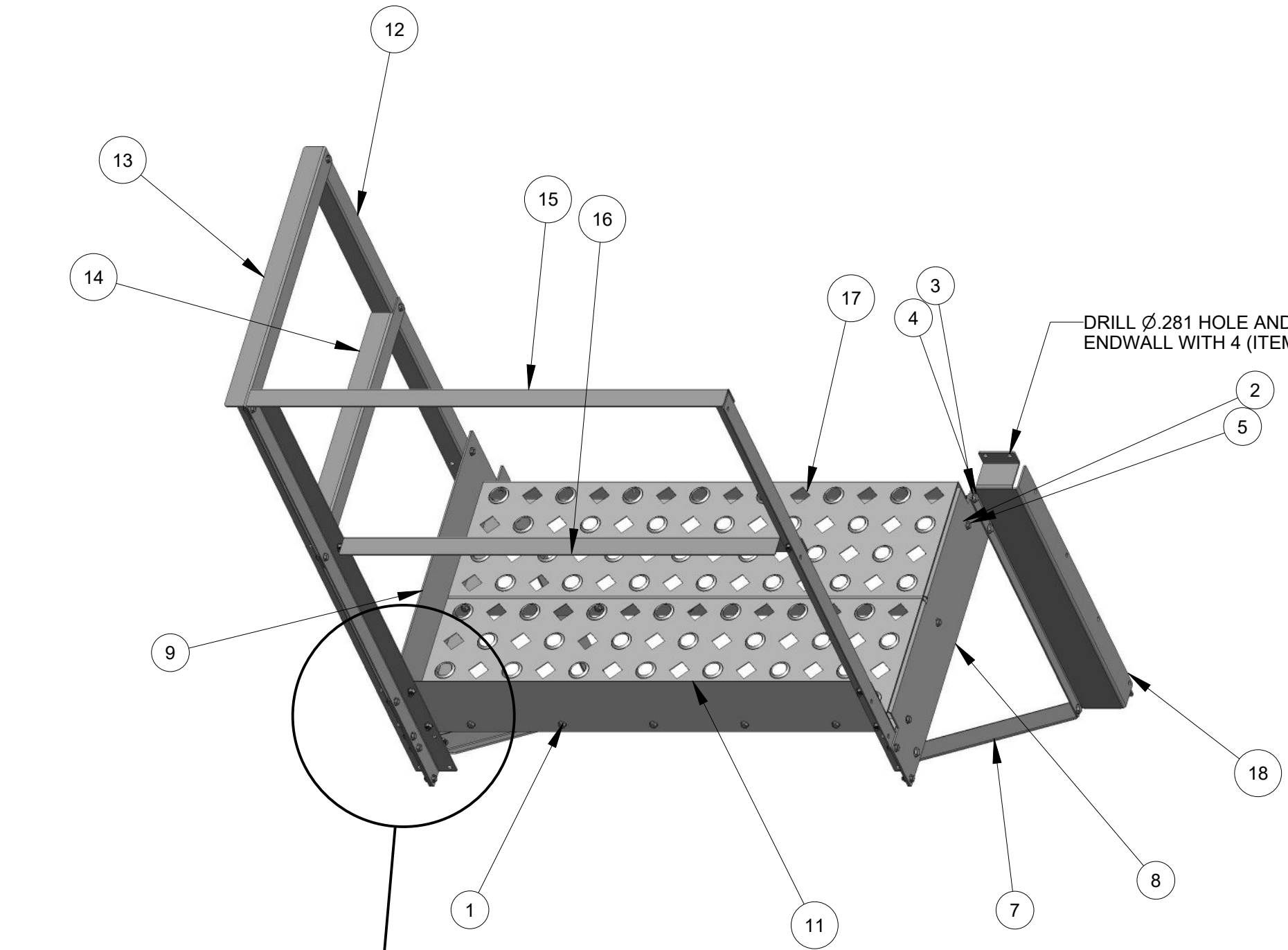
**DRILL ϕ .281 HOLES AND FASTEN TO
ENDWALL WITH 4 (ITEM 31) 040-002739.**

| | | | | | |
|---|------------|--------------------|---------------------|-----------------|--------------------------------------|
| MASS: | | 258.727 | PART NO.: | | 035-012636 - Pg. 4 of 4 |
| | | | DESCRIPTION: | | KIT-WALKWAY-GARNER-ANGLE RAIL |
| | | | MODELED BY: | | M. LANTZER |
| | | | THICKNESS: | | |
| | | | MATERIAL: | | |
| | | | SCALE: | 0.078 | DELUX MFG. CO. KEARNEY, NE |
| | | | DATE: | Feb-12-21 | |
| ECO# | LET | DESCRIPTION | DATE | USED ON: | |
| TOLERANCE: DECIMAL \pm .010 FRACTION \pm 1/32 ANGLE \pm 1° UNLESS OTHERWISE SPECIFIED | | | | | |

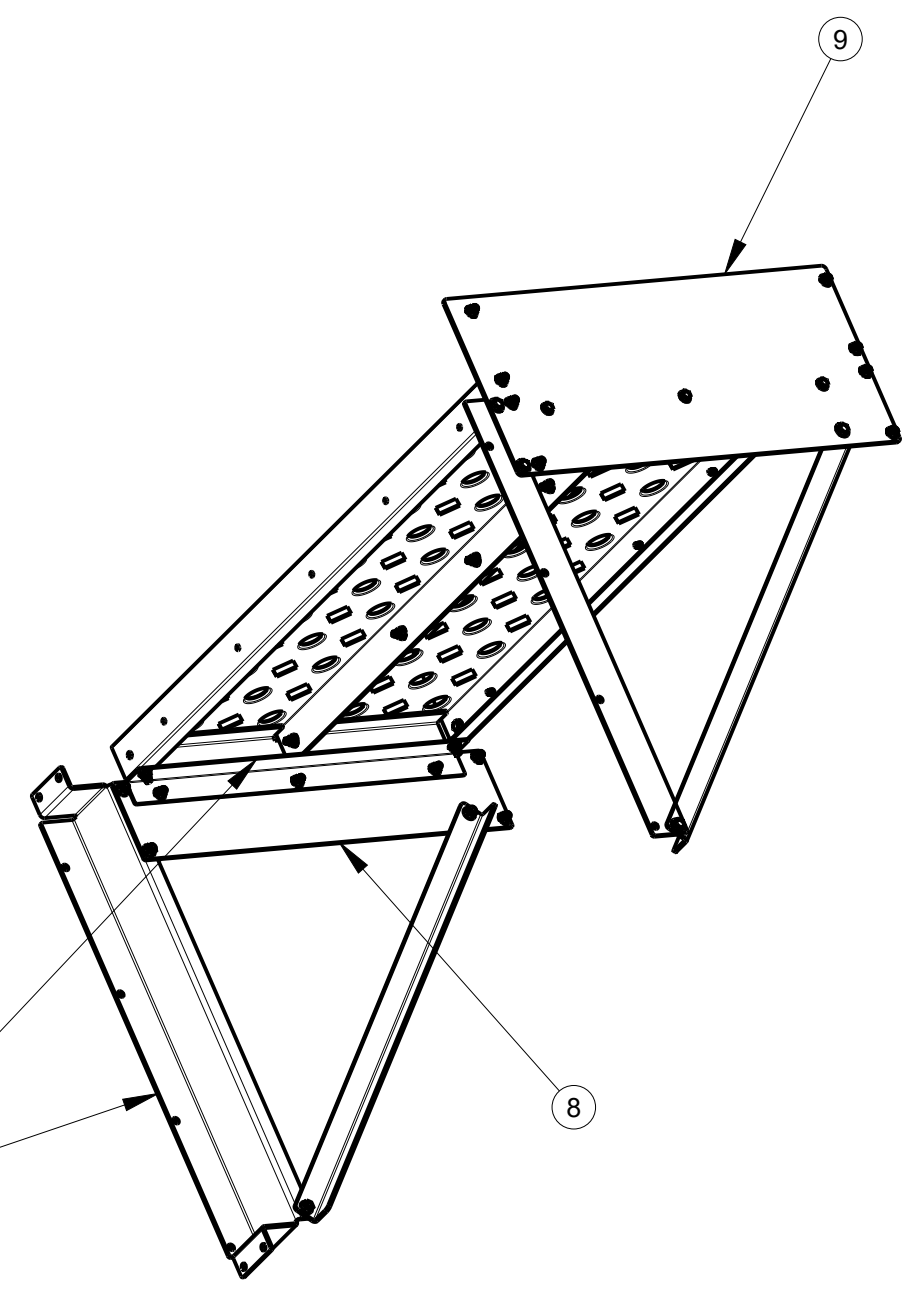
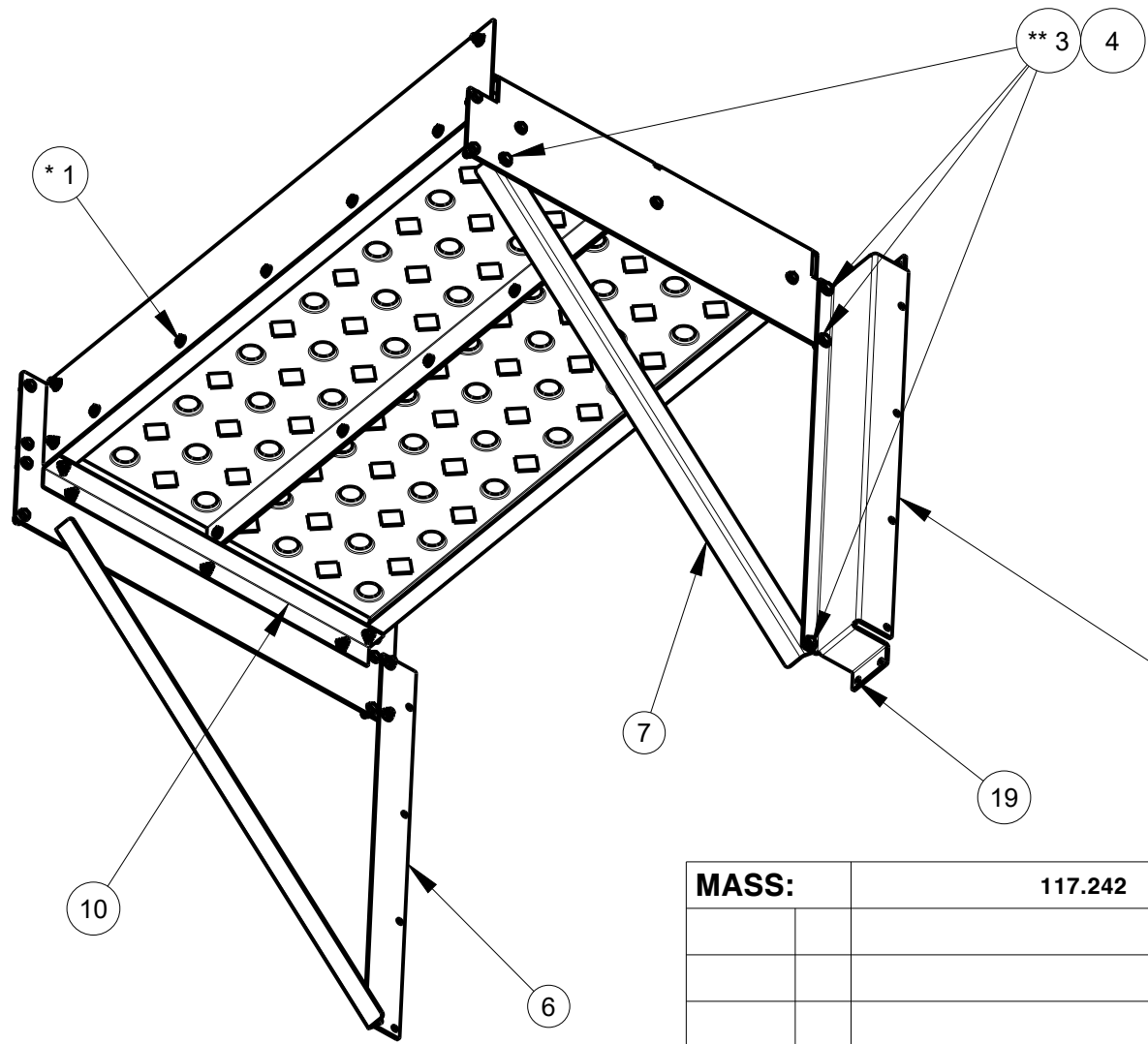
| ITEM | PART NO. | QTY | DESCRIPTION |
|------|------------|-----|--|
| 1 | 040-001450 | 5 | SCREW - TCS - HEX - 5/16-18UNC X 1/2 |
| 2 | 040-001459 | 37 | NUT - WHIZ LOCK - 5/16-18UNC |
| 3 | 040-001460 | 8 | NUT - WHIZ LOCK - 3/8-16UNC |
| 4 | 040-002193 | 8 | BOLT - WHIZ LOCK - 3/8-16UNC X 3/4 |
| 5 | 040-005321 | 37 | BOLT - WHIZ LOCK - 5/16-18UNC X 3/4" |
| 6 | 100-012157 | 1 | WALKWAY SUPPORT-LEFT-GARNER & PLENUM-ANGLE RAIL |
| 7 | 100-012158 | 2 | WALKWAY BRACE-GARNER & PLENUM-ANGLE RAIL |
| 8 | 100-012159 | 1 | WALKWAY BRACKET RIGHT-GARNER & PLENUM-ANGLE RAIL |
| 9 | 100-012160 | 1 | WALKWAY BRACKET LEFT-GARNER/PLENUM-ANGLE RAIL |
| 10 | 100-012161 | 2 | WALKWAY MOUNT ANGLE-GARNER/PLENUM-ANGLE RAIL |
| 11 | 100-012162 | 1 | WALKWAY TOEGUARD-FRONT-GARNER/PLENUM-ANGLE RAIL |
| 12 | 100-012163 | 4 | HANDRAIL-VERTICAL-DP-DPXGT-ANGLE RAIL |
| 13 | 100-012164 | 1 | HANDRAIL-26.75-TOP-ANGLE RAIL |
| 14 | 100-012165 | 1 | HANDRAIL-26.75-MID-ANGLE RAIL |
| 15 | 100-012166 | 1 | HANDRAIL-42"-TOP-ANGLE RAIL |
| 16 | 100-012167 | 1 | HANDRAIL-42"-MID-ANGLE RAIL |
| 17 | 100-012168 | 2 | WALKWAY PLANK-12" X 42"-GARNER/PLENUM-ANGLE RAIL |
| 18 | 100-012197 | 1 | WALKWAY SUPPORT-RIGHT-GARNER & PLENUM-ANGLE RAIL |
| 19 | 040-002739 | 4 | SCREW TCS HEX 5/16-18UNC X 3/4 ZINC |

- * 1 USE 040-001450 - to fasten TOE GUARDS TO WALKWAY PLANKS
- ** 3 4 USE 040-002193 & 040-001460 - to fasten SUPPORTS, BRACKETS & BRACES together.
- *** 2 5 USE 040-005321 & 040-001459 to fasten RAILINGS AND ALL OTHER SUPPORTS.

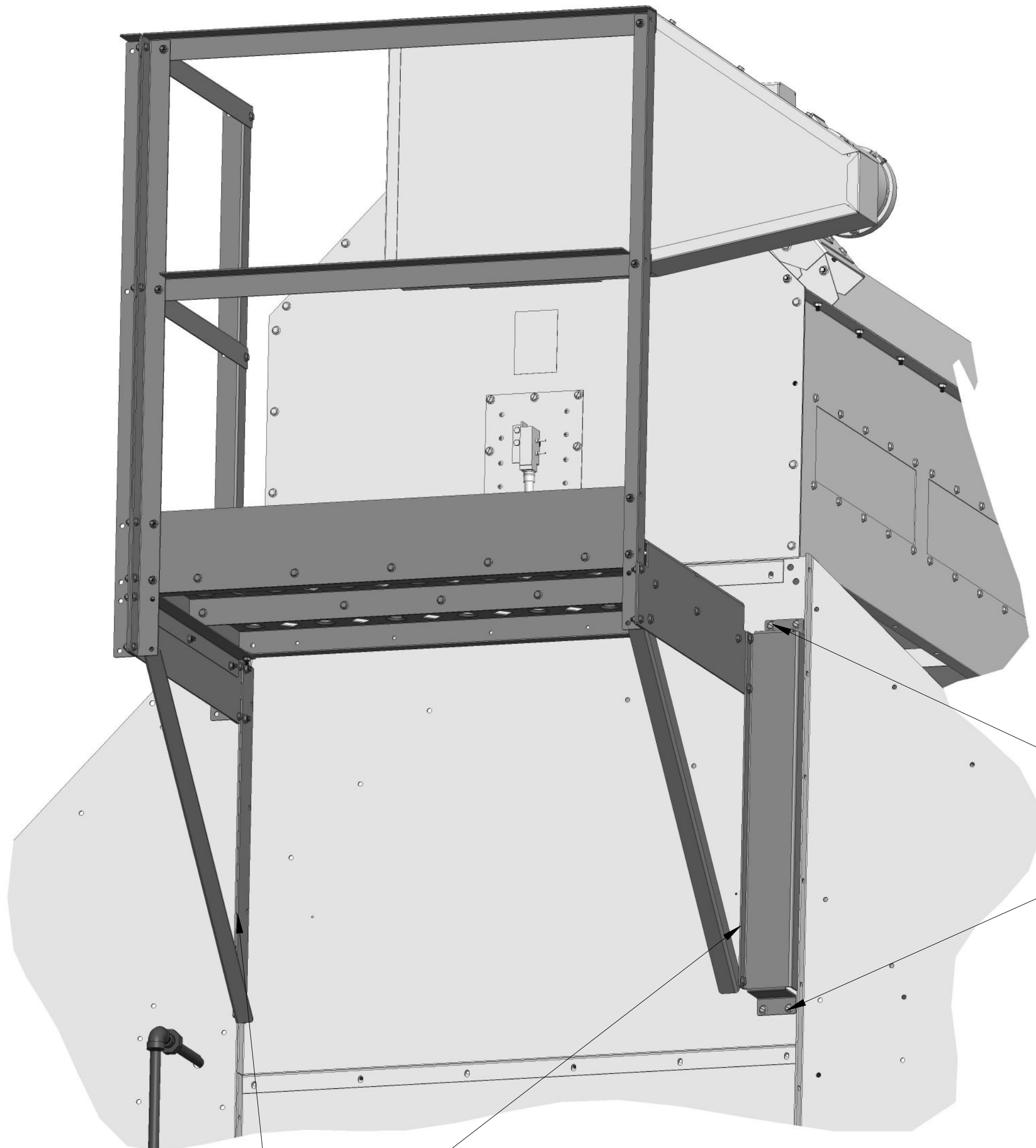
DRILL Ø.281 HOLE AND FASTEN TO ENDWALL WITH 4 (ITEM 19) 040-002739.



CORNER VERTICAL RAIL DETAIL
SCALE 0.187



| | | | | | |
|--------------|-----|-------------|---------------------|--|--------------------------------------|
| MASS: | | 117.242 | PART NO.: | | 035-012635 |
| | | | DESCRIPTION: | | KIT-WALKWAY-PLENUM-ANGLE RAIL |
| | | | MODELED BY: | | M. LANTZER |
| | | | THICKNESS: | | |
| | | | MATERIAL: | | |
| | | | SCALE: | 0.093 | DELUX MFG. CO. KEARNEY, NE |
| | | | DATE: | Feb-02-21 | |
| | | | USED ON: | | |
| ECO# | LET | DESCRIPTION | DATE | TOLERANCE: DECIMAL ±.010 FRACTION ±1/32 ANGLE ±1° UNLESS OTHERWISE SPECIFIED | |

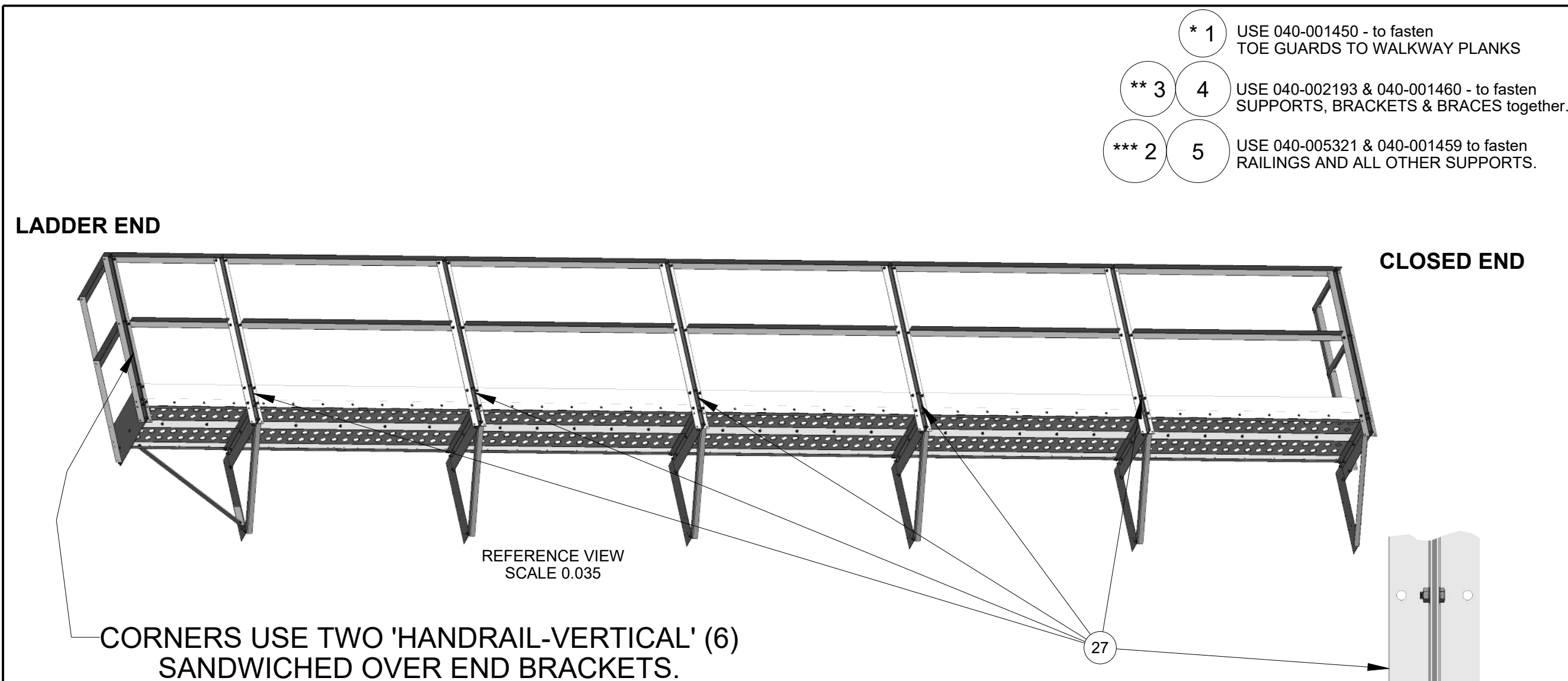


DRILL \varnothing .281 HOLES AND FASTEN TO
ENDWALL WITH 4 (ITEM 19) 040-002739.

SCALE 0.125

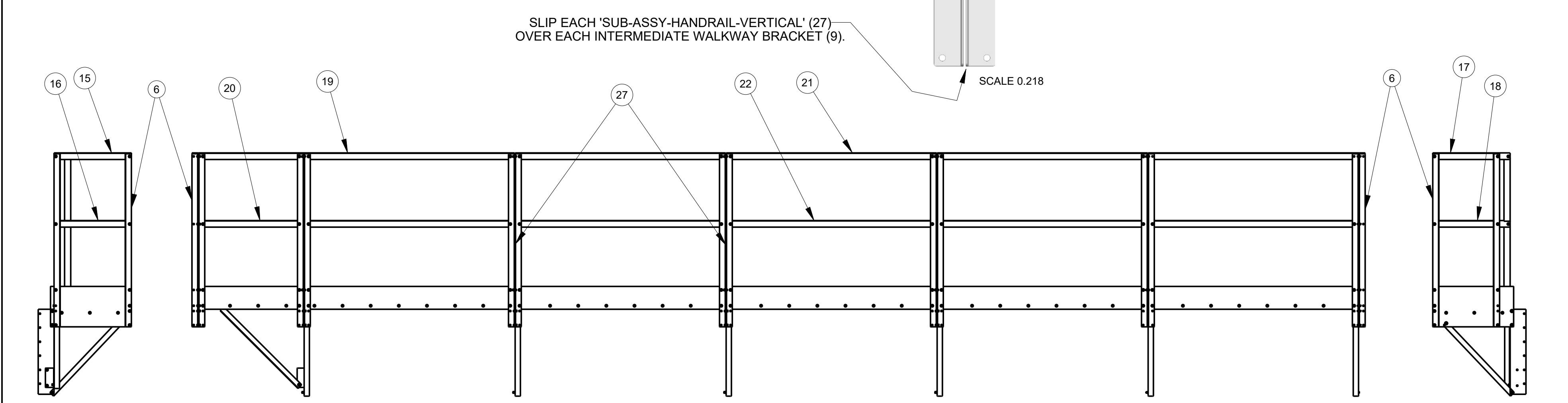
ATTACH LEFT AND RIGHT SUPPORTS
TO INSIDE OF END SHEET LIPS FIRST.

| | | | | | |
|---|------------|--------------------|---------------------|-----------------|--------------------------------------|
| MASS: | | 117.242 | PART NO.: | | 035-012635 |
| | | | DESCRIPTION: | | KIT-WALKWAY-PLENUM-ANGLE RAIL |
| | | | MODELED BY: | | M. LANTZER |
| | | | THICKNESS: | | |
| | | | MATERIAL: | | |
| | | | SCALE: | 0.093 | DELUX MFG. CO. KEARNEY, NE |
| | | | DATE: | Feb-18-21 | |
| ECO# | LET | DESCRIPTION | DATE | USED ON: | |
| TOLERANCE: DECIMAL \pm .010 FRACTION \pm 1/32 ANGLE \pm 1° UNLESS OTHERWISE SPECIFIED | | | | | |



- * 1 USE 040-001450 - to fasten TOE GUARDS TO WALKWAY PLANKS
- ** 3 4 USE 040-002193 & 040-001460 - to fasten SUPPORTS, BRACKETS & BRACES together.
- *** 2 5 USE 040-005321 & 040-001459 to fasten RAILINGS AND ALL OTHER SUPPORTS.

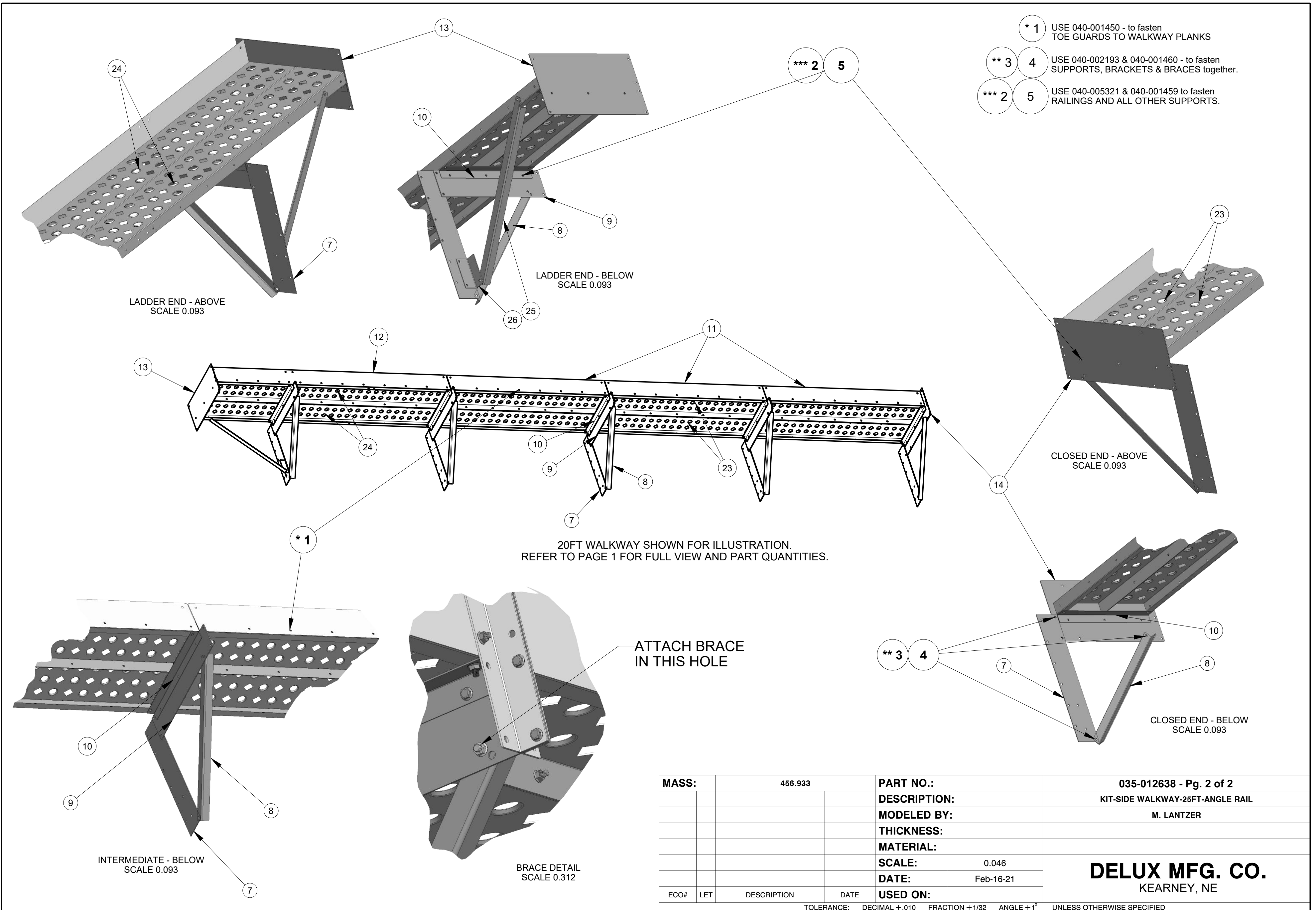
| ITEM | PART NUMBER | QTY | DESCRIPTION |
|------|-------------|-----|--|
| 1 | 040-001450 | 34 | SCREW - TCS - HEX - 5/16-18UNC X 1/2 |
| 2 | 040-001459 | 148 | NUT - WHIZ LOCK - 5/16-18UNC |
| 3 | 040-001460 | 26 | NUT - WHIZ LOCK - 3/8-16UNC |
| 4 | 040-002193 | 26 | BOLT - WHIZ LOCK - 3/8-16UNC X 3/4 |
| 5 | 040-005321 | 148 | BOLT - WHIZ LOCK - 5/16-18UNC X 3/4" |
| 6 | 100-012163 | 6 | HANDRAIL-VERTICAL-DP-DPXGT-ANGLE RAIL |
| 7 | 100-012169 | 6 | WALKWAY SUPPORT-SIDE-ANGLE RAIL |
| 8 | 100-012170 | 6 | WALKWAY BRACE-SIDE-ANGLE RAIL |
| 9 | 100-012171 | 5 | WALKWAY BRACKET-20" SIDE-ANGLE RAIL |
| 10 | 100-012172 | 12 | WALKWAY MOUNT ANGLE-20" SIDE-ANGLE RAIL |
| 11 | 100-012175 | 4 | WALKWAY TOE GUARD-60"-SIDE-ANGLE RAIL |
| 12 | 100-012176 | 1 | WALKWAY TOE GUARD-90"-SIDE-ANGLE RAIL |
| 13 | 100-012177 | 1 | WALKWAY BRACKET-LADDER END-20" SIDE-ANGLE RAIL |
| 14 | 100-012178 | 1 | WALKWAY BRACKET-CLOSED END-20" SIDE-ANGLE RAIL |
| 15 | 100-012179 | 1 | HANDRAIL-22"-TOP-ANGLE RAIL |
| 16 | 100-012180 | 1 | HANDRAIL-22"-MID-ANGLE RAIL |
| 17 | 100-012181 | 1 | HANDRAIL-19"-TOP-ANGLE RAIL |
| 18 | 100-012182 | 1 | HANDRAIL-19"-MID-ANGLE RAIL |
| 19 | 100-012183 | 1 | HANDRAIL-90"-TOP-ANGLE RAIL |
| 20 | 100-012184 | 1 | HANDRAIL-30"-MID-ANGLE RAIL |
| 21 | 100-012185 | 4 | HANDRAIL-60"-TOP-ANGLE RAIL |
| 22 | 100-012186 | 5 | HANDRAIL-60"-MID-ANGLE RAIL |
| 23 | 100-012188 | 8 | WALKWAY PLANK-10" X 60"-ANGLE RAIL |
| 24 | 100-012189 | 2 | WALKWAY PLANK-10" X 90"-ANGLE RAIL |
| 25 | 100-012192 | 1 | WALKWAY BRACE-LADDER END-ANGLE RAIL |
| 26 | 100-012193 | 1 | WALKWAY BRACKET ANGLE-LADDER END-ANGLE RAIL |
| 27 | 300-012174 | 5 | SUB ASSY-HANDRAIL-VERTICAL-DP-DPXGT-ANGLE RAIL |



| | | | |
|--------------|------------|---------------------|----------------------------------|
| MASS: | 543.569 | PART NO.: | 035-012638 - Pg. 1 of 2 |
| | | DESCRIPTION: | KIT-SIDE WALKWAY-25FT-ANGLE RAIL |
| | | MODELED BY: | M. LANTZER |
| | | THICKNESS: | |
| | | MATERIAL: | |
| | | SCALE: | 0.046 |
| | | DATE: | Feb-16-21 |
| ECO# | LET | DESCRIPTION | DATE |
| | | | |

DELUX MFG. CO.
KEARNEY, NE

TOLERANCE: DECIMAL ±.010 FRACTION ±1/32 ANGLE ±1° UNLESS OTHERWISE SPECIFIED



| | | | |
|--|------------|---------------------|----------------------------------|
| MASS: | 456.933 | PART NO.: | 035-012638 - Pg. 2 of 2 |
| | | DESCRIPTION: | KIT-SIDE WALKWAY-25FT-ANGLE RAIL |
| | | MODELED BY: | M. LANTZER |
| | | THICKNESS: | |
| | | MATERIAL: | |
| | | SCALE: | 0.046 |
| | | DATE: | Feb-16-21 |
| ECO# | LET | DESCRIPTION | DATE |
| | | | |
| TOLERANCE: DECIMAL ±.010 FRACTION ±1/32 ANGLE ±1° UNLESS OTHERWISE SPECIFIED | | | |

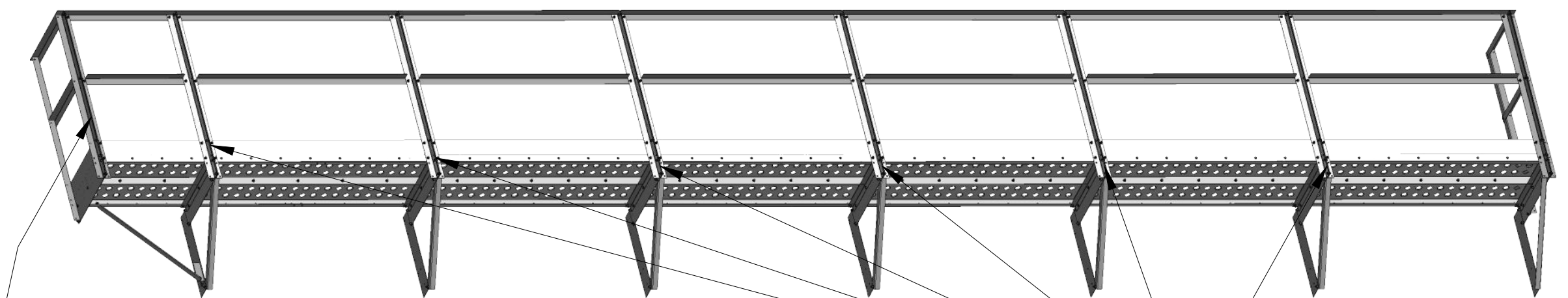
DELUX MFG. CO.
KEARNEY, NE

- * 1 USE 040-001450 - to fasten TOE GUARDS TO WALKWAY PLANKS
- ** 3 4 USE 040-002193 & 040-001460 - to fasten SUPPORTS, BRACKETS & BRACES together.
- *** 2 5 USE 040-005321 & 040-001459 to fasten RAILINGS AND ALL OTHER SUPPORTS.

| ITEM | PART NUMBER | QTY | DESCRIPTION |
|------|-------------|-----|--|
| 1 | 040-001450 | 40 | SCREW - TCS - HEX - 5/16-18UNC X 1/2 |
| 2 | 040-001459 | 174 | NUT - WHIZ LOCK - 5/16-18UNC |
| 3 | 040-001460 | 30 | NUT - WHIZ LOCK - 3/8-16UNC |
| 4 | 040-002193 | 30 | BOLT - WHIZ LOCK - 3/8-16UNC X 3/4 |
| 5 | 040-005321 | 174 | BOLT - WHIZ LOCK - 5/16-18UNC X 3/4" |
| 6 | 100-012163 | 6 | HANDRAIL-VERTICAL-DP-DPXGT-ANGLE RAIL |
| 7 | 100-012169 | 7 | WALKWAY SUPPORT-SIDE-ANGLE RAIL |
| 8 | 100-012170 | 7 | WALKWAY BRACE-SIDE-ANGLE RAIL |
| 9 | 100-012171 | 6 | WALKWAY BRACKET-20" SIDE-ANGLE RAIL |
| 10 | 100-012172 | 14 | WALKWAY MOUNT ANGLE-20" SIDE-ANGLE RAIL |
| 11 | 100-012175 | 5 | WALKWAY TOE GUARD-60"-SIDE-ANGLE RAIL |
| 12 | 100-012176 | 1 | WALKWAY TOE GUARD-90"-SIDE-ANGLE RAIL |
| 13 | 100-012177 | 1 | WALKWAY BRACKET-LADDER END-20" SIDE-ANGLE RAIL |
| 14 | 100-012178 | 1 | WALKWAY BRACKET-CLOSED END-20" SIDE-ANGLE RAIL |
| 15 | 100-012179 | 1 | HANDRAIL-22"-TOP-ANGLE RAIL |
| 16 | 100-012180 | 1 | HANDRAIL-22"-MID-ANGLE RAIL |
| 17 | 100-012181 | 1 | HANDRAIL-19"-TOP-ANGLE RAIL |
| 18 | 100-012182 | 1 | HANDRAIL-19"-MID-ANGLE RAIL |
| 19 | 100-012183 | 1 | HANDRAIL-90"-TOP-ANGLE RAIL |
| 20 | 100-012184 | 1 | HANDRAIL-30"-MID-ANGLE RAIL |
| 21 | 100-012185 | 5 | HANDRAIL-60"-TOP-ANGLE RAIL |
| 22 | 100-012186 | 6 | HANDRAIL-60"-MID-ANGLE RAIL |
| 23 | 100-012188 | 10 | WALKWAY PLANK-10" X 60"-ANGLE RAIL |
| 24 | 100-012189 | 2 | WALKWAY PLANK-10" X 90"-ANGLE RAIL |
| 25 | 100-012192 | 1 | WALKWAY BRACE-LADDER END-ANGLE RAIL |
| 26 | 100-012193 | 1 | WALKWAY BRACKET ANGLE-LADDER END-ANGLE RAIL |
| 27 | 300-012174 | 6 | SUB ASSY-HANDRAIL-VERTICAL-DP-DPXGT-ANGLE RAIL |

LADDER END

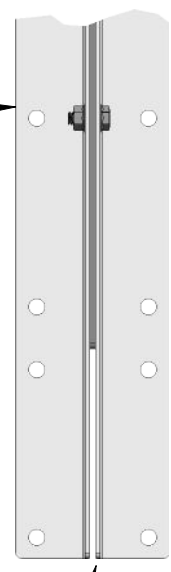
CLOSED END



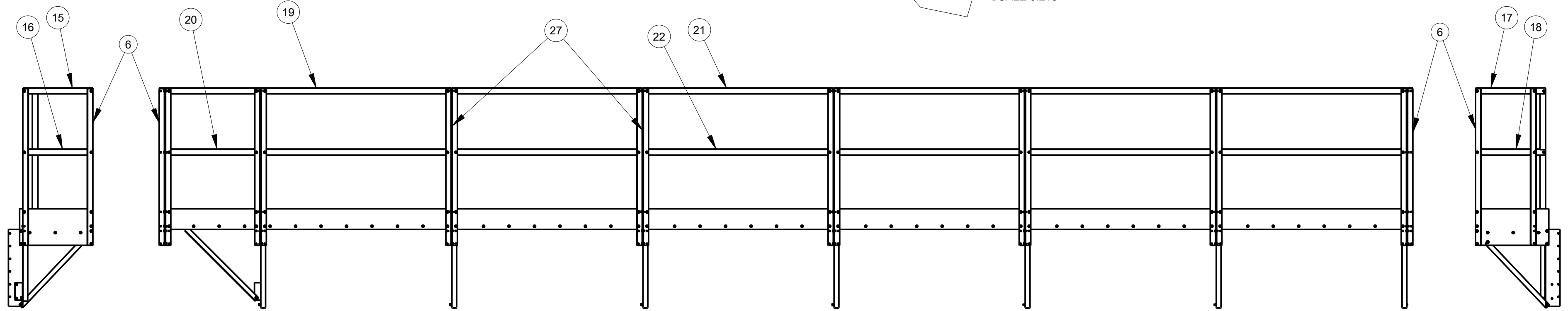
REFERENCE VIEW
SCALE 0.032

CORNERS USE TWO 'HANDRAIL-VERTICAL' (6)
SANDWICHED OVER END BRACKETS.

SLIP EACH 'SUB-ASSY-HANDRAIL-VERTICAL' (27)
OVER EACH INTERMEDIATE WALKWAY BRACKET (9).



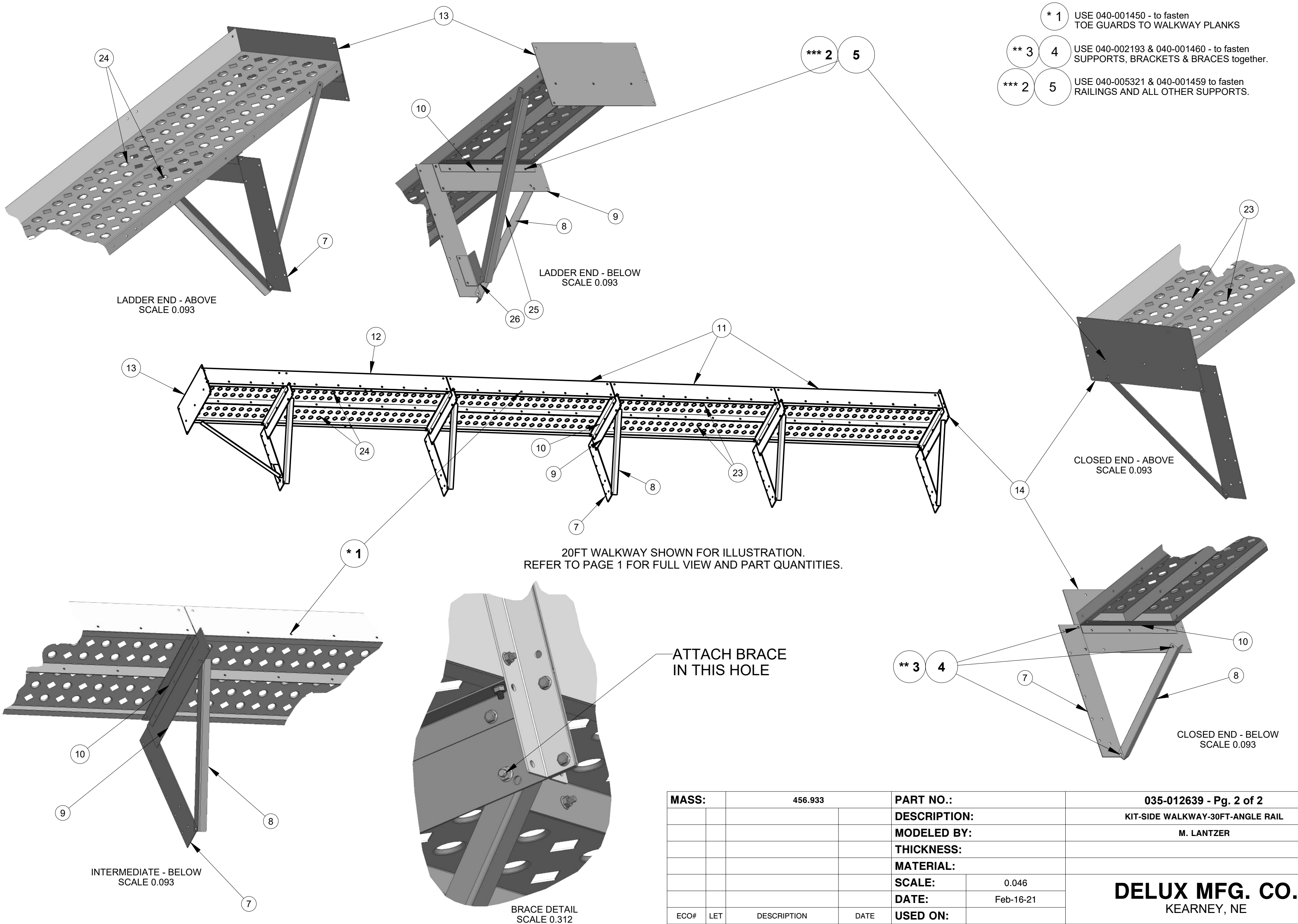
SCALE 0.218



| | | | |
|--------------|------------|---------------------|----------------------------------|
| MASS: | 631.361 | PART NO.: | 035-012639 - Pg. 1 of 2 |
| | | DESCRIPTION: | KIT-SIDE WALKWAY-30FT-ANGLE RAIL |
| | | MODELED BY: | M. LANTZER |
| | | THICKNESS: | |
| | | MATERIAL: | |
| | | SCALE: | 0.040 |
| | | DATE: | Feb-16-21 |
| ECO# | LET | DESCRIPTION | DATE |
| | | | |

DELUX MFG. CO.
KEARNEY, NE

TOLERANCE: DECIMAL ±.010 FRACTION ±1/32 ANGLE ±1° UNLESS OTHERWISE SPECIFIED



- * 1 USE 040-001450 - to fasten TOE GUARDS TO WALKWAY PLANKS
- ** 3 4 USE 040-002193 & 040-001460 - to fasten SUPPORTS, BRACKETS & BRACES together.
- ** 2 5 USE 040-005321 & 040-001459 to fasten RAILINGS AND ALL OTHER SUPPORTS.

LADDER END - ABOVE
SCALE 0.093

LADDER END - BELOW
SCALE 0.093

CLOSED END - ABOVE
SCALE 0.093

20FT WALKWAY SHOWN FOR ILLUSTRATION.
REFER TO PAGE 1 FOR FULL VIEW AND PART QUANTITIES.

INTERMEDIATE - BELOW
SCALE 0.093

BRACE DETAIL
SCALE 0.312

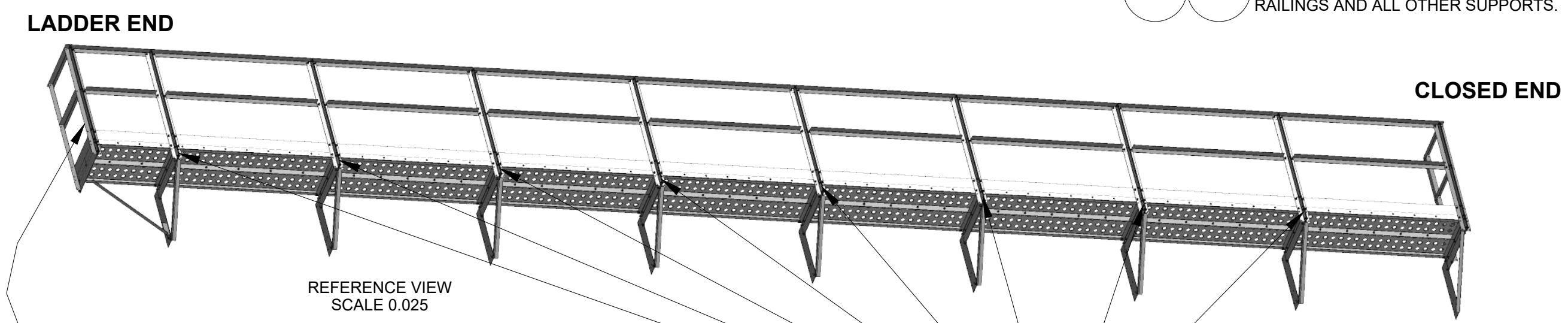
CLOSED END - BELOW
SCALE 0.093

| | | | | | |
|--|-----|-------------|---------------------|-----------------|----------------------------------|
| MASS: | | 456.933 | PART NO.: | | 035-012639 - Pg. 2 of 2 |
| | | | DESCRIPTION: | | KIT-SIDE WALKWAY-30FT-ANGLE RAIL |
| | | | MODELED BY: | | M. LANTZER |
| | | | THICKNESS: | | |
| | | | MATERIAL: | | |
| | | | SCALE: | 0.046 | |
| | | | DATE: | Feb-16-21 | |
| ECO# | LET | DESCRIPTION | DATE | USED ON: | |
| TOLERANCE: DECIMAL ±.010 FRACTION ±1/32 ANGLE ±1° UNLESS OTHERWISE SPECIFIED | | | | | |

DELUX MFG. CO.
KEARNEY, NE

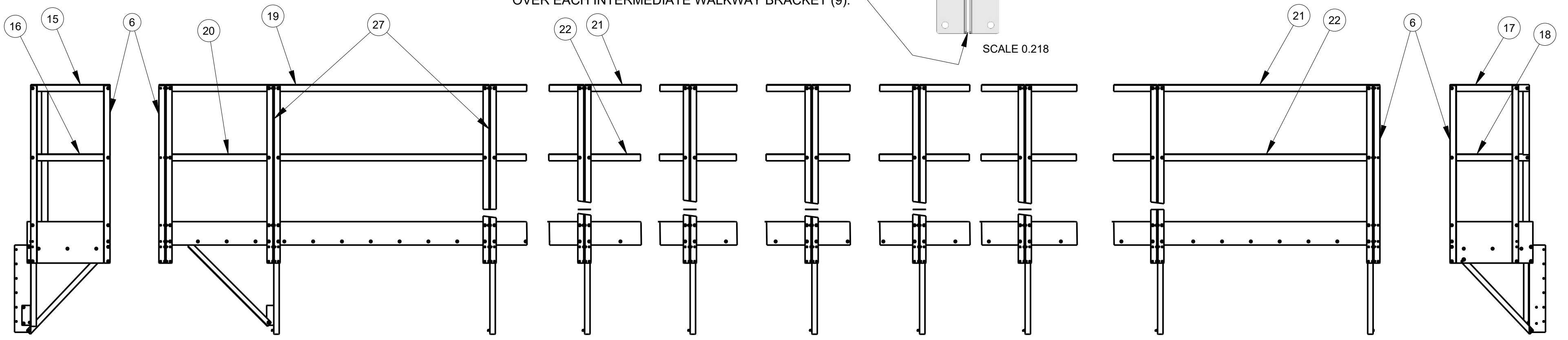
- * 1 USE 040-001450 - to fasten TOE GUARDS TO WALKWAY PLANKS
- ** 3 4 USE 040-002193 & 040-001460 - to fasten SUPPORTS, BRACKETS & BRACES together.
- *** 2 5 USE 040-005321 & 040-001459 to fasten RAILINGS AND ALL OTHER SUPPORTS.

| ITEM | PART NUMBER | QTY | DESCRIPTION |
|------|-------------|-----|--|
| 1 | 040-001450 | 52 | SCREW - TCS - HEX - 5/16-18UNC X 1/2 |
| 2 | 040-001459 | 218 | NUT - WHIZ LOCK - 5/16-18UNC |
| 3 | 040-001460 | 38 | NUT - WHIZ LOCK - 3/8-16UNC |
| 4 | 040-002193 | 38 | BOLT - WHIZ LOCK - 3/8-16UNC X 3/4 |
| 5 | 040-005321 | 218 | BOLT - WHIZ LOCK - 5/16-18UNC X 3/4" |
| 6 | 100-012163 | 6 | HANDRAIL-VERTICAL-DP-DPXGT-ANGLE RAIL |
| 7 | 100-012169 | 9 | WALKWAY SUPPORT-SIDE-ANGLE RAIL |
| 8 | 100-012170 | 9 | WALKWAY BRACE-SIDE-ANGLE RAIL |
| 9 | 100-012171 | 8 | WALKWAY BRACKET-20" SIDE-ANGLE RAIL |
| 10 | 100-012172 | 18 | WALKWAY MOUNT ANGLE-20" SIDE-ANGLE RAIL |
| 11 | 100-012175 | 7 | WALKWAY TOE GUARD-60"-SIDE-ANGLE RAIL |
| 12 | 100-012176 | 1 | WALKWAY TOE GUARD-90"-SIDE-ANGLE RAIL |
| 13 | 100-012177 | 1 | WALKWAY BRACKET-LADDER END-20" SIDE-ANGLE RAIL |
| 14 | 100-012178 | 1 | WALKWAY BRACKET-CLOSED END-20" SIDE-ANGLE RAIL |
| 15 | 100-012179 | 1 | HANDRAIL-22"-TOP-ANGLE RAIL |
| 16 | 100-012180 | 1 | HANDRAIL-22"-MID-ANGLE RAIL |
| 17 | 100-012181 | 1 | HANDRAIL-19"-TOP-ANGLE RAIL |
| 18 | 100-012182 | 1 | HANDRAIL-19"-MID-ANGLE RAIL |
| 19 | 100-012183 | 1 | HANDRAIL-90"-TOP-ANGLE RAIL |
| 20 | 100-012184 | 1 | HANDRAIL-30"-MID-ANGLE RAIL |
| 21 | 100-012185 | 7 | HANDRAIL-60"-TOP-ANGLE RAIL |
| 22 | 100-012186 | 8 | HANDRAIL-60"-MID-ANGLE RAIL |
| 23 | 100-012188 | 14 | WALKWAY PLANK-10" X 60"-ANGLE RAIL |
| 24 | 100-012189 | 2 | WALKWAY PLANK-10" X 90"-ANGLE RAIL |
| 25 | 100-012192 | 1 | WALKWAY BRACE-LADDER END-ANGLE RAIL |
| 26 | 100-012193 | 1 | WALKWAY BRACKET ANGLE-LADDER END-ANGLE RAIL |
| 27 | 300-012174 | 8 | SUB ASSY-HANDRAIL-VERTICAL-DP-DPXGT-ANGLE RAIL |



CORNERS USE TWO 'HANDRAIL-VERTICAL' (6) SANDWICHED OVER END BRACKETS.

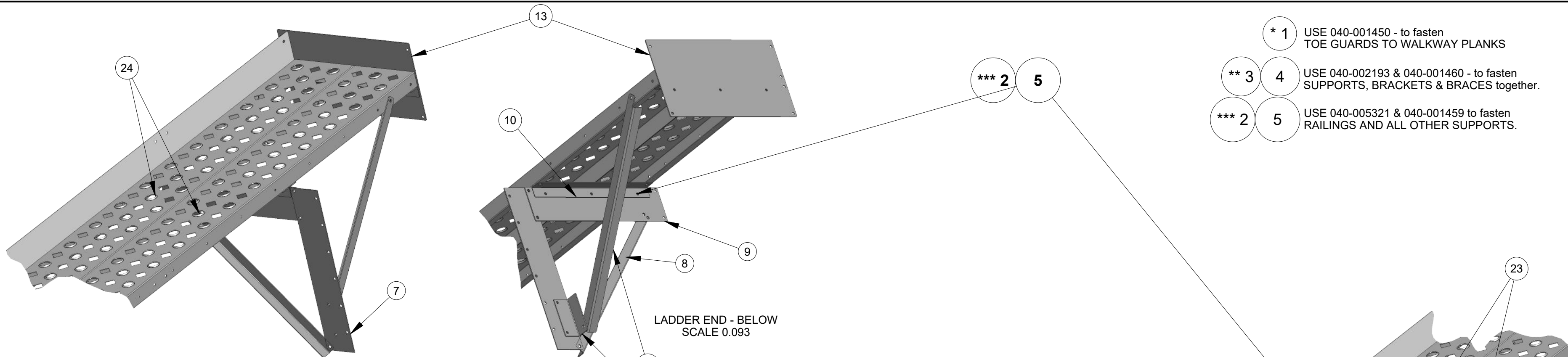
SLIP EACH 'SUB-ASSY-HANDRAIL-VERTICAL' (27) OVER EACH INTERMEDIATE WALKWAY BRACKET (9).



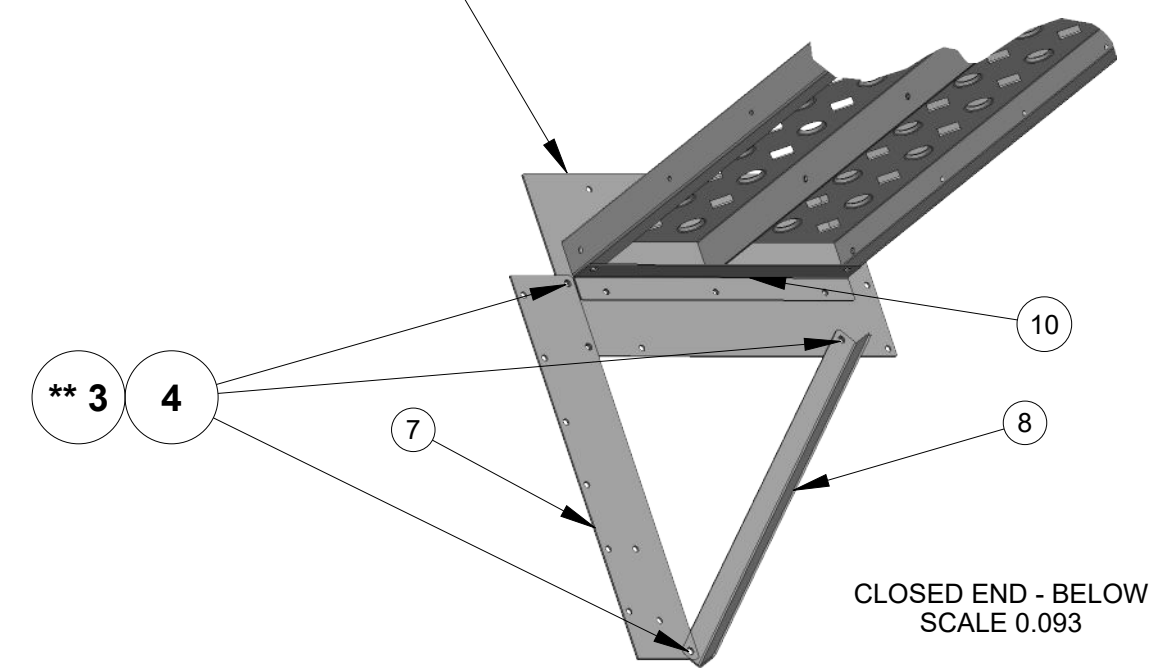
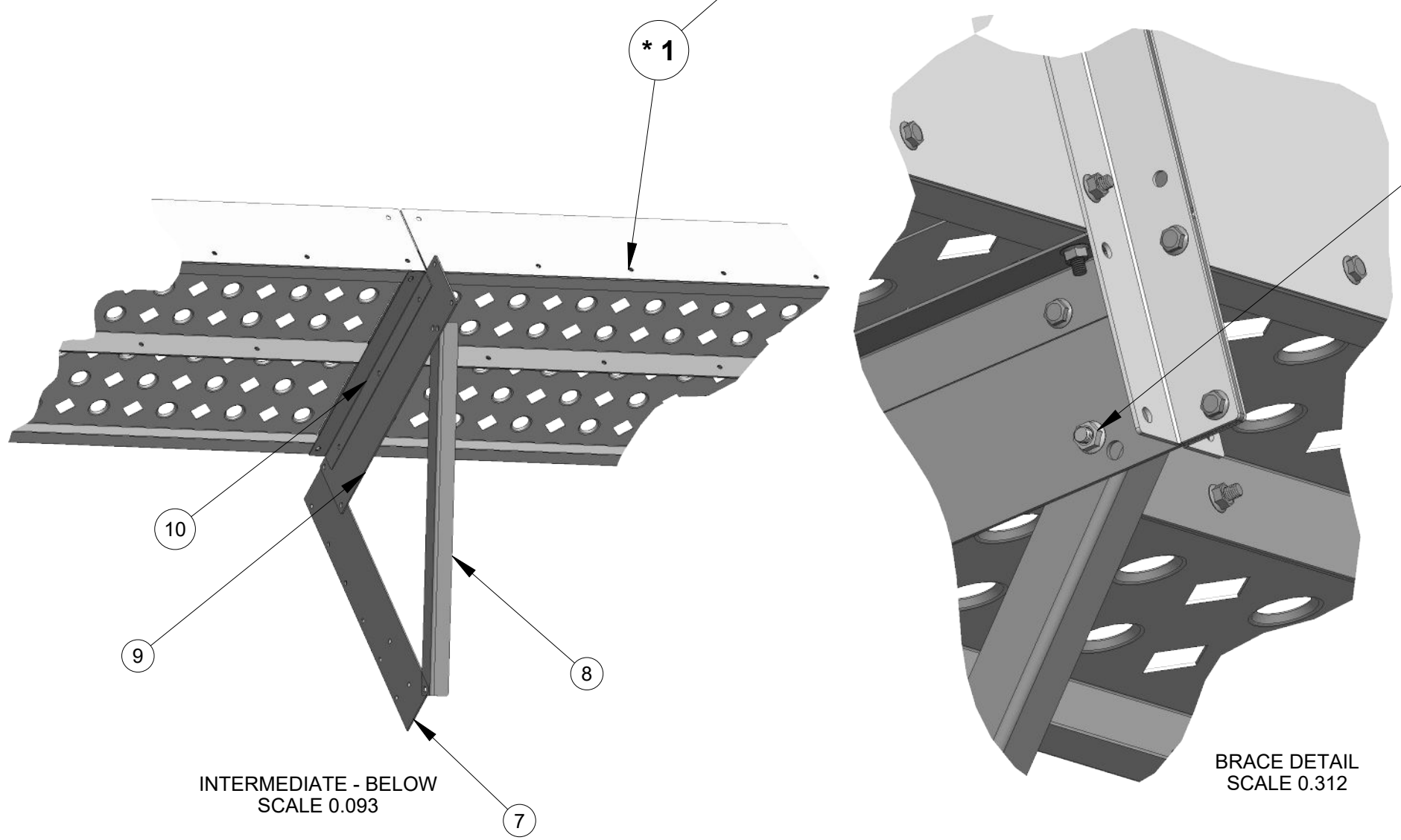
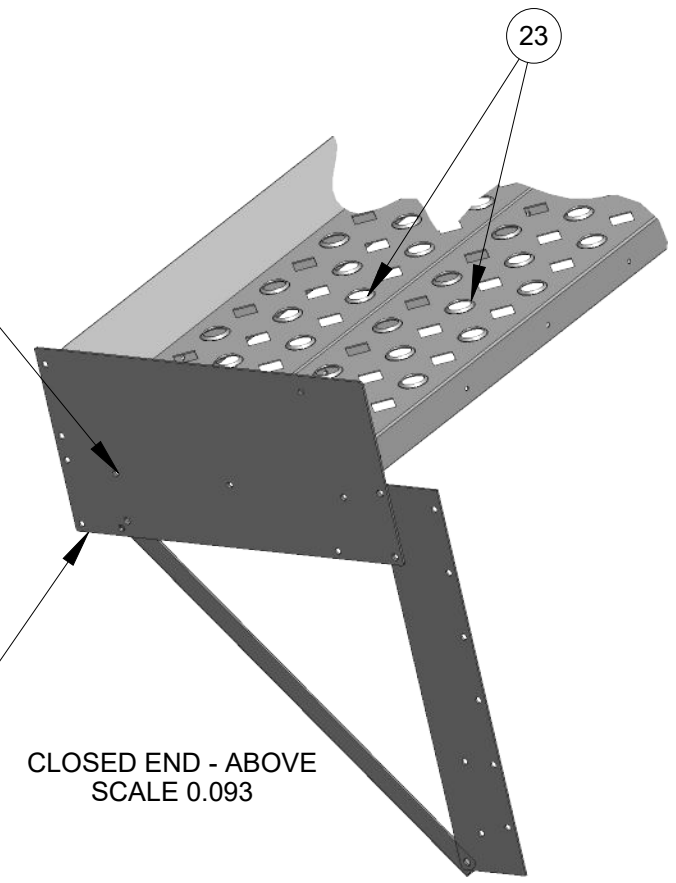
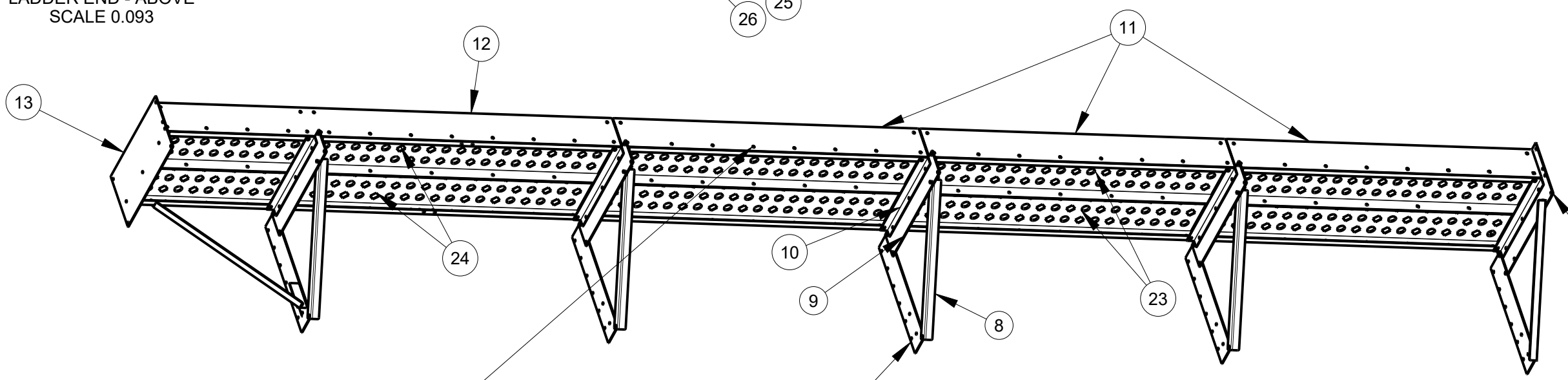
| | | | |
|--------------|---------|---------------------|----------------------------------|
| MASS: | 805.789 | PART NO.: | 035-012640 - Pg. 1 of 2 |
| | | DESCRIPTION: | KIT-SIDE WALKWAY-40FT-ANGLE RAIL |
| | | MODELED BY: | M. LANTZER |
| | | THICKNESS: | |
| | | MATERIAL: | |
| | | SCALE: | 0.046 |
| | | DATE: | Feb-16-21 |
| ECO# | LET | DESCRIPTION | DATE |
| | | | |

DELUX MFG. CO.
KEARNEY, NE

TOLERANCE: DECIMAL ±.010 FRACTION ±1/32 ANGLE ±1° UNLESS OTHERWISE SPECIFIED



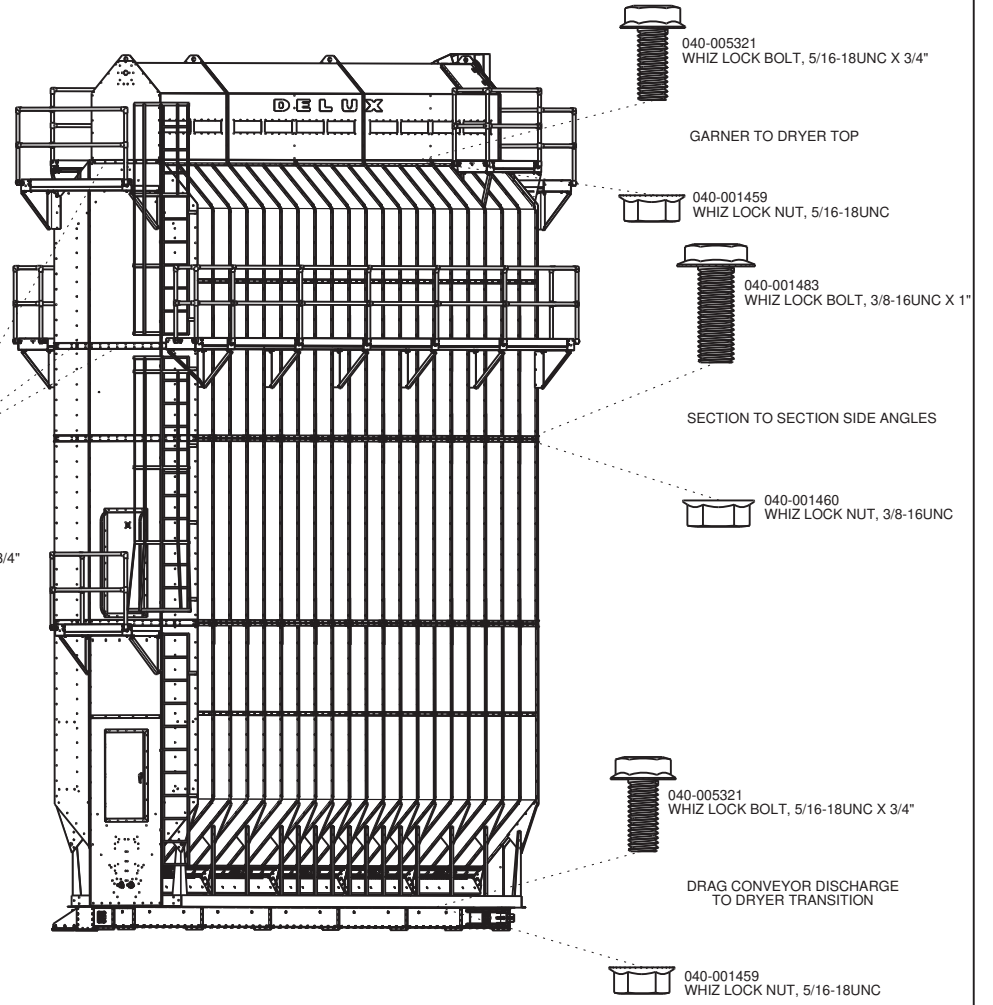
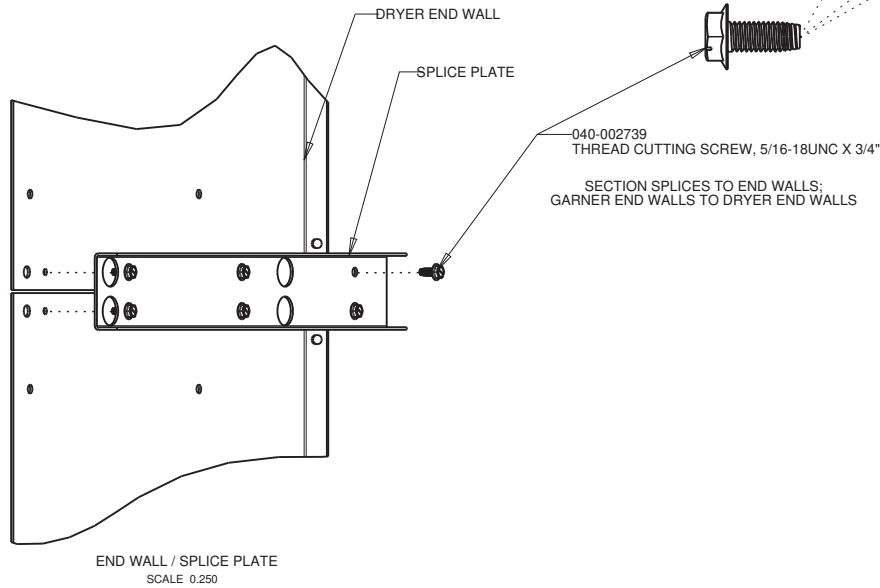
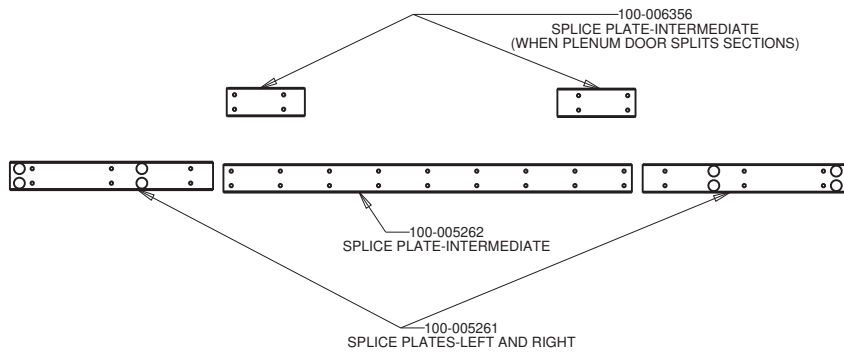
- * 1 USE 040-001450 - to fasten TOE GUARDS TO WALKWAY PLANKS
- ** 3 4 USE 040-002193 & 040-001460 - to fasten SUPPORTS, BRACKETS & BRACES together.
- *** 2 5 USE 040-005321 & 040-001459 to fasten RAILINGS AND ALL OTHER SUPPORTS.



| | | | | | |
|--------------|-----|-------------|---------------------|-----------------|----------------------------------|
| MASS: | | 456.933 | PART NO.: | | 035-012640 - Pg. 2 of 2 |
| | | | DESCRIPTION: | | KIT-SIDE WALKWAY-40FT-ANGLE RAIL |
| | | | MODELED BY: | | M. LANTZER |
| | | | THICKNESS: | | |
| | | | MATERIAL: | | |
| | | | SCALE: | 0.046 | |
| | | | DATE: | Feb-16-21 | |
| ECO# | LET | DESCRIPTION | DATE | USED ON: | |

DELUX MFG. CO.
KEARNEY, NE

TOLERANCE: DECIMAL ±.010 FRACTION ±1/32 ANGLE ±1° UNLESS OTHERWISE SPECIFIED



| | | | | | | | |
|------|-----|-------------------------------|----------|----------------------------|--------------------------------------|------------|--|
| | | | | DRAWN BY MEL | DELUX MFG. CO. KEARNEY, NE | | TITLE: ILLUSTRATION ERECTION DPX/DPXSL; 4T; 8T; 12T; 16GT |
| | | | | DATE 12/28/04 | | | |
| | | | | CHK'D | USED ON: | | |
| | C | UPDATE FOR EXPANDED MODELS | 07/25/12 | | NEXT ASSY: | | |
| | B | REDRAWN | 12/28/04 | SCALE .020 (C' SIZE) | MATL. | SHEAR SIZE | DRAWING NO. 900-005526 |
| ECO# | LET | DESCRIPTION | DATE | | | | |

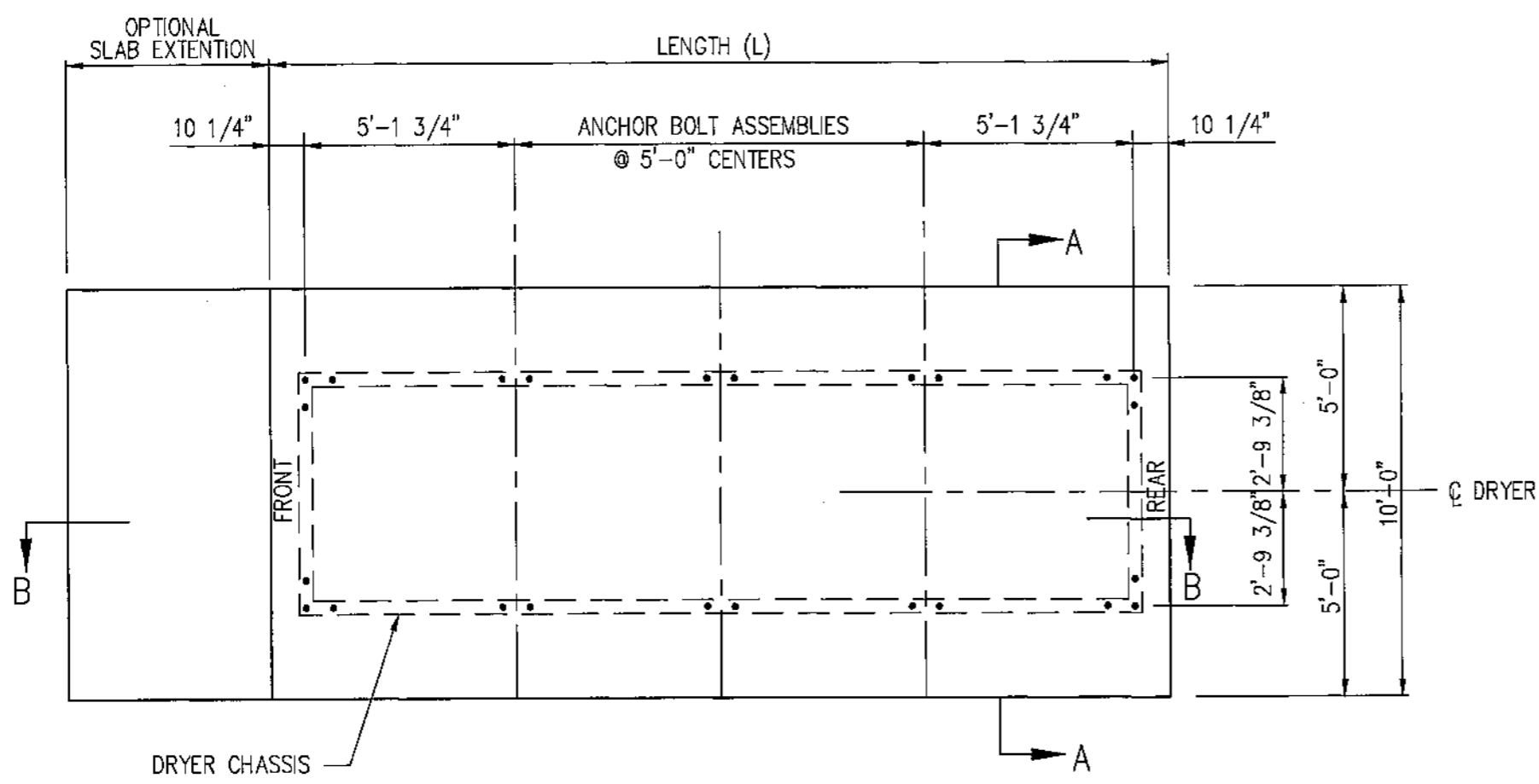
TOLERANCE: DECIMAL ±.010 FRACTION ±1/32 ANGLE ±1° UNLESS OTHERWISE SPECIFIED

| ECN | DATE | CHANGE | AUTH |
|-----|------|--------|------|
| | | | |



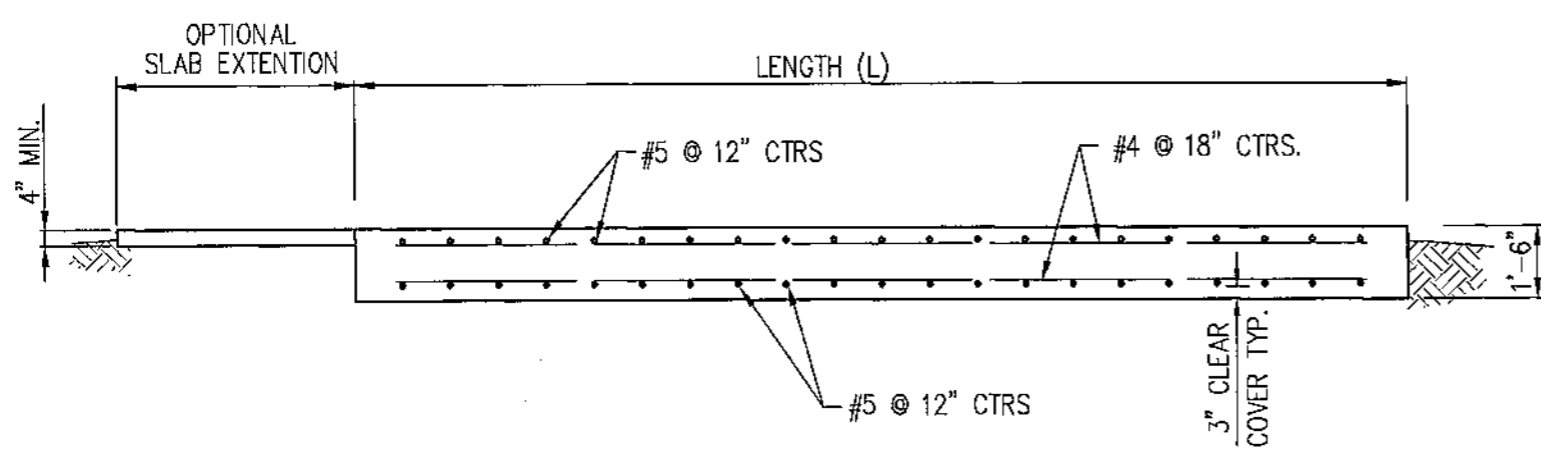
MILLER & ASSOCIATES CONSULTING ENGINEERS, P.C.

SCALE: 1/4" = 1'-0"
 PROJECT NO. 130-P167-002
 DATE: JANUARY, 1987
 DRAWN BY: BKS
 APPROVED BY: SYJ
 DRAWING NO. 6704

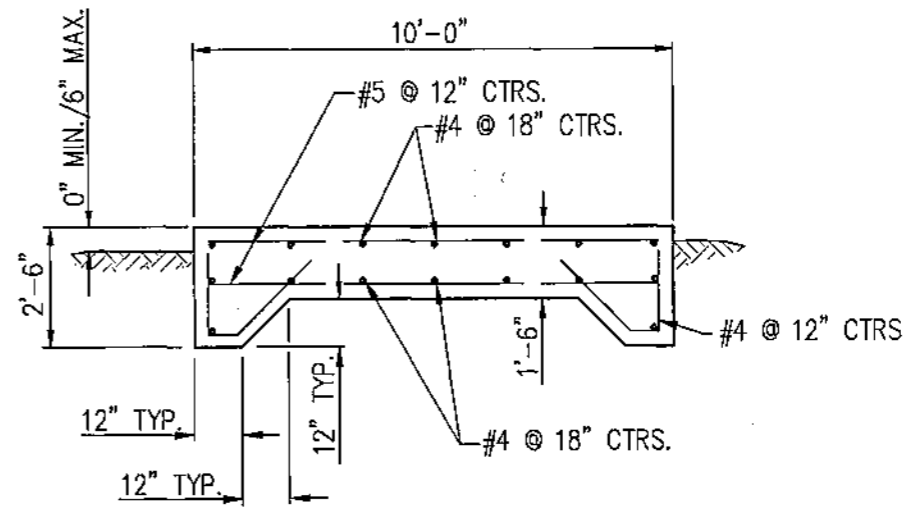


PLAN VIEW

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



SECTION B-B



SECTION A-A

FOUNDATION PLAN
 MSF-DP-DPSL SERIES

DELUX MFG. CO.
 AIR BASE ROAD
 KEARNEY, NEBRASKA



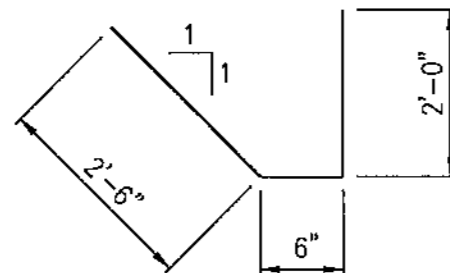
DELUX DRAWING NO. 900-006320
 SHEET 1 OF 2

M&A, INC. 10/80

| 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 |



MILLER & ASSOCIATES CONSULTING ENGINEERS, P.C.

SCALE:

PROJECT NO. 130-P167-002

DATE: JANUARY, 1987

DRAWN BY: BKS

APPROVED BY: SKJ

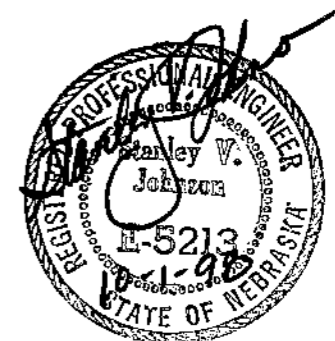
DRAWING NO. 6803

GENERAL NOTES

1. THIS FOOTING IS DESIGNED IN ACCORDANCE WITH THE 1994 UNIFORM BUILDING CODE. BASIC WIND SPEED IS 80 MPH, EXPOSURE C.
2. FOOTINGS ARE DESIGNED FOR THE SPECIFIC MODEL NUMBER LISTED WITH A 4 FOOT MAXIMUM LEG EXTENSION.
3. 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.
4. DRYER MUST BE LEVEL ALONG LENGTH AND WIDTH AT ALL TIMES DURING DRYING PROCESS.
5. CONCRETE SHALL HAVE A MINIMUM 28 DAY STRENGTH OF 3000 PSI.
6. REINFORCING STEEL SHALL BE ASTM A615 GRADE 60.
7. MINIMUM SOIL BEARING CAPACITY SHALL BE 1000 PSF.

FOUNDATION PLAN
MSF-DP-DPSL SERIES

DELUX MFG. CO.
AIR BASE ROAD
KEARNEY, NEBRASKA



DELUX DRAWING NO. 900-006320

SHEET 2 OF 2

| ECN | DATE | CHANGE | AUTH |
|-----|------|--------|------|
| | | | |

M&A
MILLER & ASSOCIATES CONSULTING ENGINEERS, P.C.

This document, and the ideas and designs incorporated herein, is an instrument of professional service, is the property of Miller & Associates and is not to be used in whole or in part, for any other project without the written authorization of Miller & Associates.

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

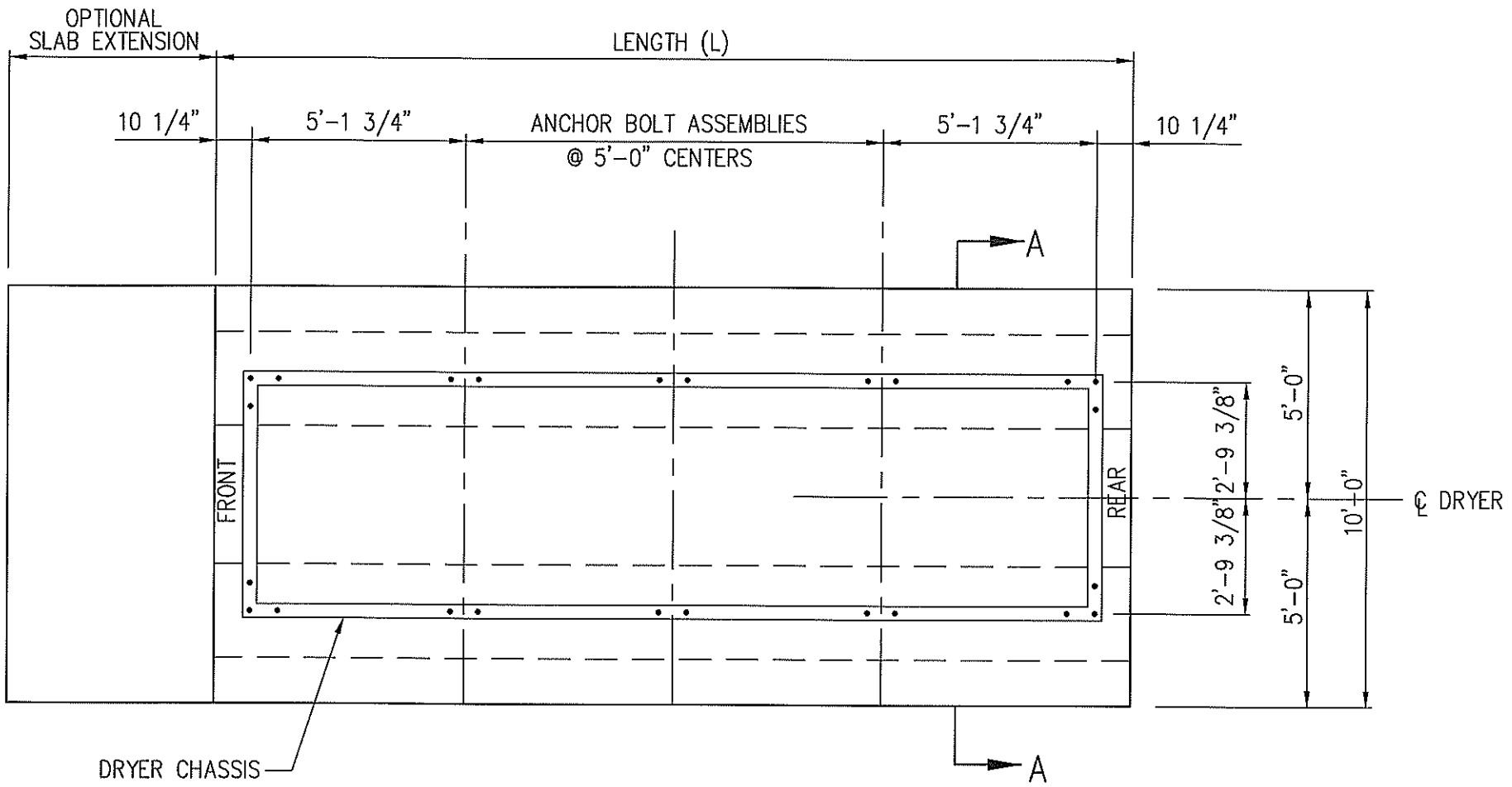
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130-P167-006

DATE:
APRIL 2007

DRAWN BY:
DDM

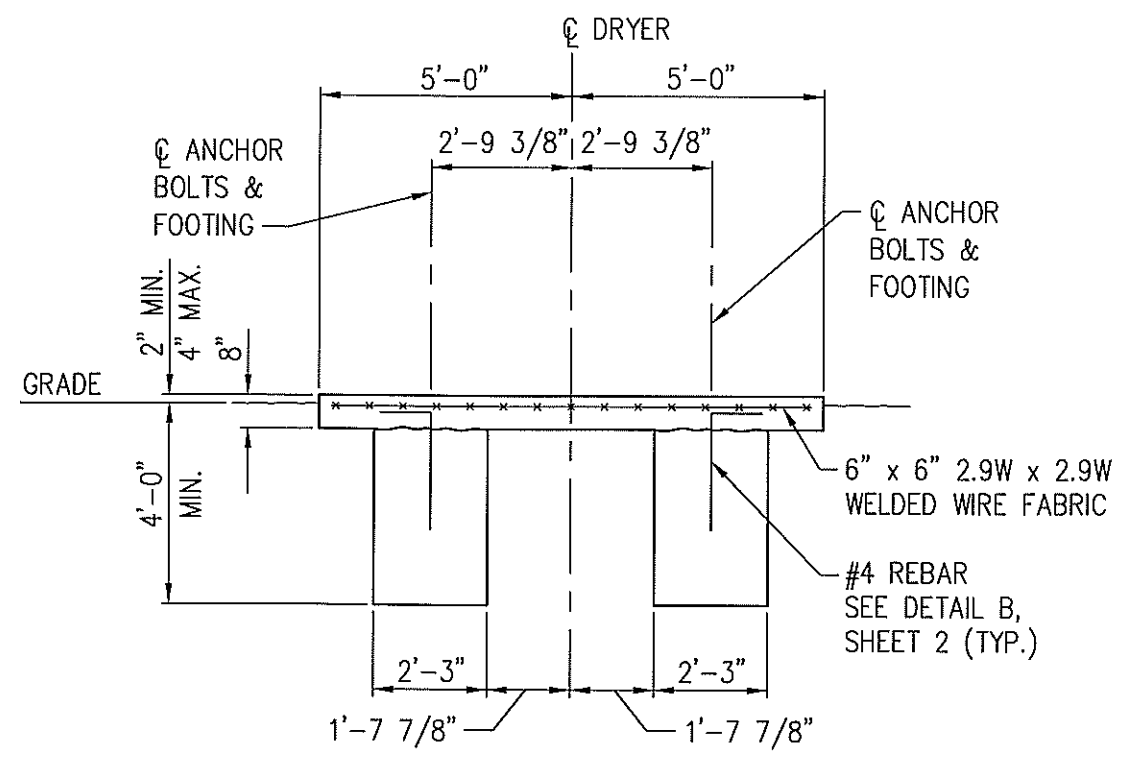
APPROVED BY:
SWJ

DRAWING NO.



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

PLAN VIEW



SECTION A-A

GENERAL NOTES

- THIS FOOTING IS DESIGNED IN ACCORDANCE WITH THE 2004 INTERNATIONAL BUILDING CODE. BASIC WIND SPEED IS 90 MPH, EXPOSURE C.
- FOOTINGS ARE DESIGNED FOR THE SPECIFIC MODEL NUMBER LISTED WITH A 4 FOOT MAXIMUM LEG EXTENSION.
- 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.
- 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.
- MINIMUM SOIL BEARING CAPACITY SHALL BE 1800 PSF.
- THE 8" REINFORCED SLAB MAY BE EXTENDED BEYOND THE LIMITS SHOWN FOR ADDITIONAL SERVICE AREA.

TITLE
FOUNDATION PLAN
DPX-DPXSL SERIES

DELUX MFG. CO.
AIR BASE ROAD
KEARNEY, NEBRASKA

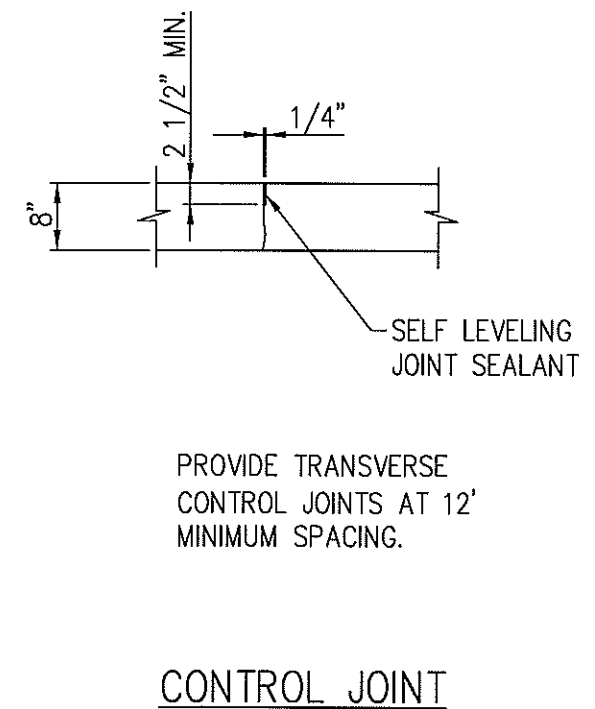
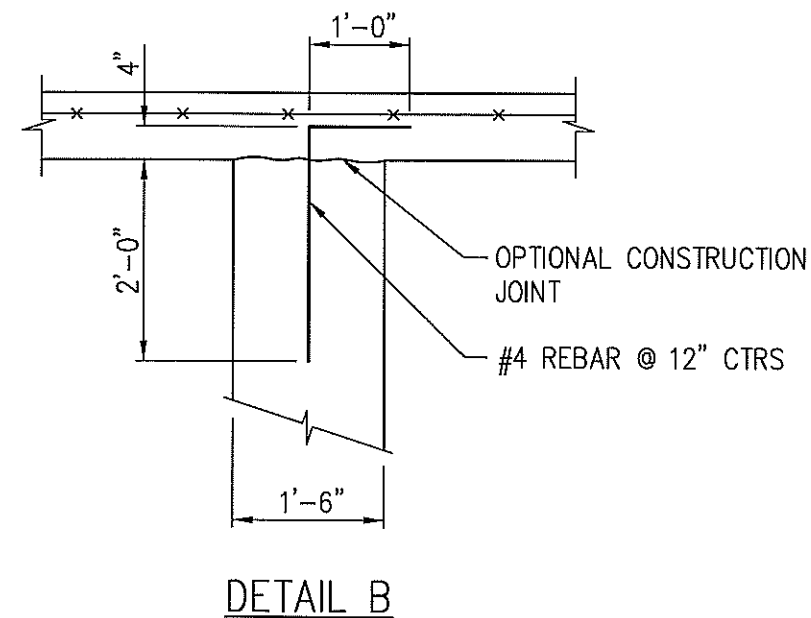


DELUX DRAWING NO.
900-006321

SHEET 1 OF 2

| MODEL NO. | FOUNDATION LENGTH (L) | CONCRETE * (CY) | #4 x 3'-0" BENT REBAR | 6" x 6" - 2.9W x 2.9W WELDED WIRE FABRIC | 5/8"Ø ANCHOR BOLTS |
|--------------|-----------------------|-----------------|-----------------------|--|--------------------|
| DPX 4525 | 12'-0" | 10.0 | 24 | 9'-6" x 11'-6" | 16 |
| DPXSL 5030 | | | | | |
| DPX 7040 | 17'-0" | 14.1 | 34 | 9'-6" x 11'-6" | 20 |
| DPXSL 8050 | | | | | |
| DPX 9050 | 22'-0" | 18.3 | 44 | 9'-6" x 21'-6" | 24 |
| DPXSL 10060 | | | | | |
| DPXSL 12560 | 27'-0" | 22.4 | 54 | 9'-6" x 26'-6" | 28 |
| DPX 13575 | 32'-0" | 26.6 | 64 | 9'-6" x 31'-6" | 32 |
| DPXSL 15090 | | | | | |
| DPX 180100 | 42'-0" | 34.9 | 84 | 9'-6" x 41'-6" | 40 |
| DPXSL 200120 | | | | | |
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| | | | | | |

* CONCRETE QUANTITY SHOWN IN THIS TABLE IS BASED ON NEAT FOOTING DIMENSIONS AND IS PROVIDED FOR INFORMATION ONLY. ACTUAL QUANTITY REQUIRED MAY VARY.



| ECN | DATE | CHANGE | AUTH |
|-----|------|--------|------|
| | | | |



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SCALE:
1/4" = 1'-0"
PROJECT NO.
130-P167-006
DATE:
APRIL, 2007
DRAWN BY:
DDM
APPROVED BY:
SVJ
DRAWING NO.

DELUX MFG. CO.
AIR BASE ROAD
KEARNEY, NEBRASKA

THE
FOUNDATION PLAN
DPX-DPXSL SERIES

DELUX MFG. CO.
AIR BASE ROAD
KEARNEY, NEBRASKA



DELUX DRAWING NO.
900-006321
SHEET 2 OF 2

| ECN | DATE | CHANGE | AUTH |
|-----|------|--------|------|
| | | | |



MILLER & ASSOCIATES CONSULTING ENGINEERS, P.C.

SCALE: 1/4" = 1'-0"
 PROJECT NO. 130-2187-002
 DATE: JANUARY, 1997
 DRAWN BY: BKS
 APPROVED BY: SW
 DRAWING NO. 8806

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

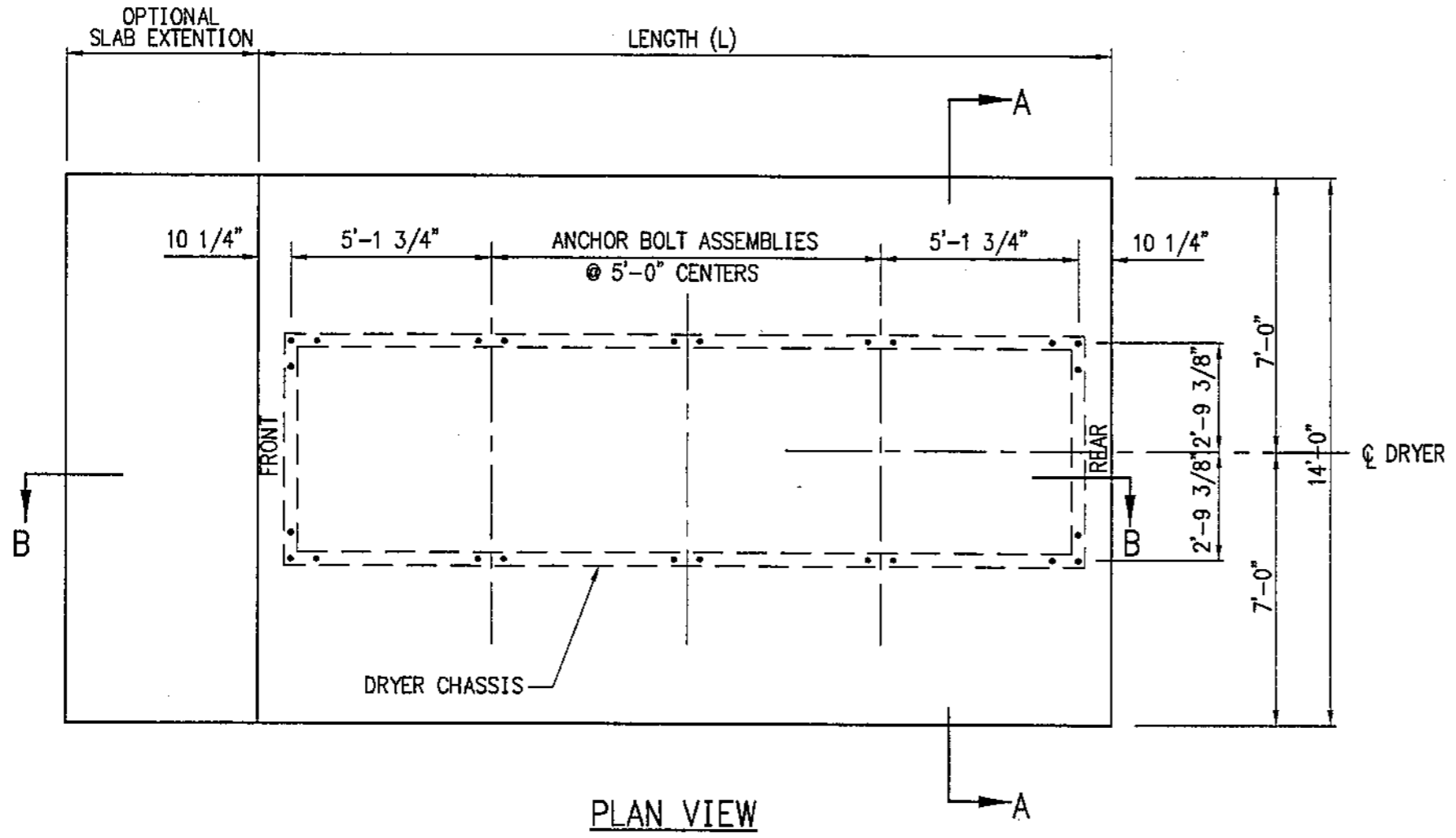


TITLE
FOUNDATION PLAN
 DPX4T SERIES

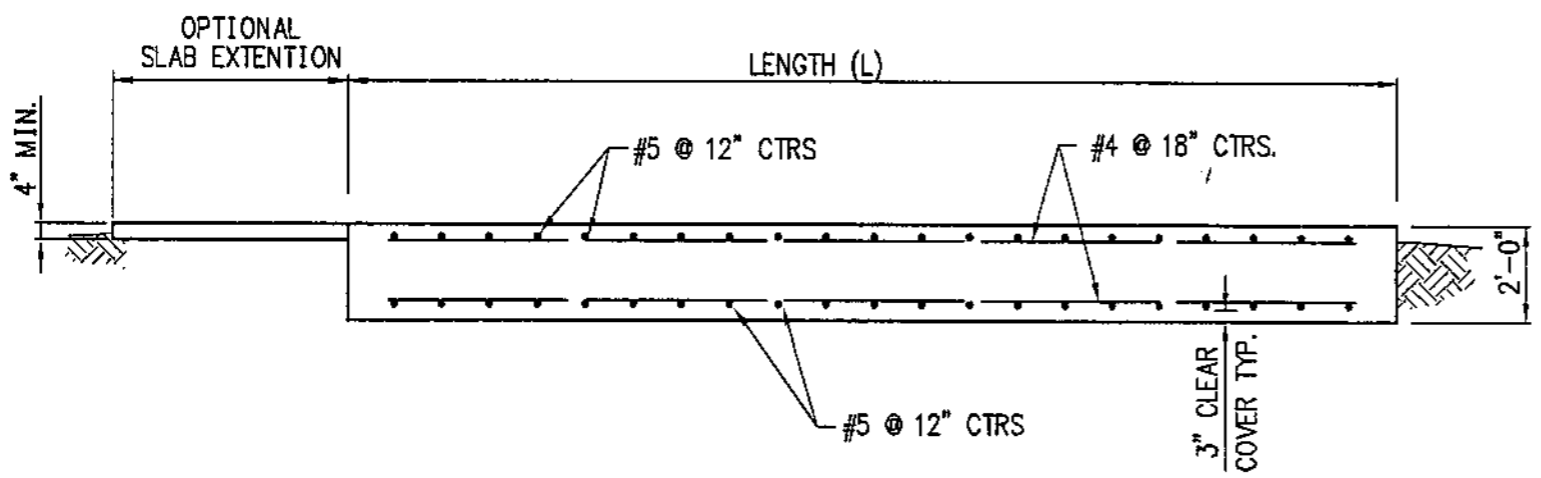
DELUX MFG. CO.
 AIR BASE ROAD
 KEARNEY, NEBRASKA



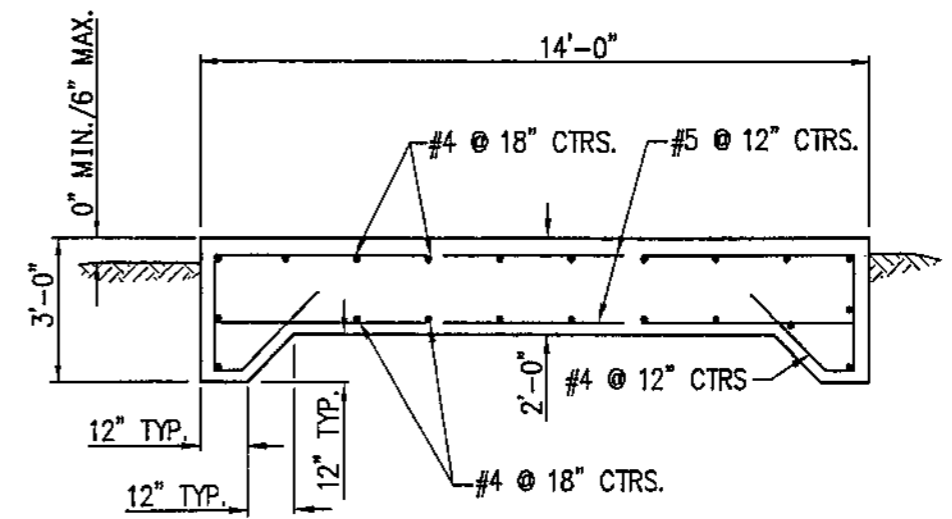
DELUX DRAWING NO. 900-006322
 SHEET 1 OF 2



PLAN VIEW




SECTION B-B



SECTION A-A

| 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 |

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



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CONSULTING ENGINEERS,
P.C.

SCALE:

PROJECT NO.
130-P167-002

DATE:
JANUARY, 1997

DRAWN BY:
BKS

APPROVED BY:
SVJ

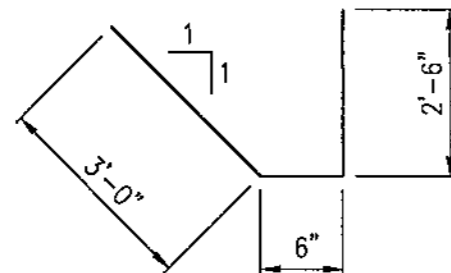
DRAWING NO.
8807

GENERAL NOTES

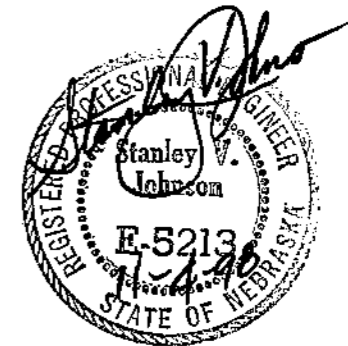
1. THIS FOOTING IS DESIGNED IN ACCORDANCE WITH THE 1994 UNIFORM BUILDING CODE. BASIC WIND SPEED IS 80 MPH, EXPOSURE C.
2. FOOTINGS ARE DESIGNED FOR THE SPECIFIC MODEL NUMBER LISTED WITH A 4 FOOT MAXIMUM LEG EXTENSION.
3. ANCHORS SHALL BE 3-3/4" ϕ ANCHOR BOLTS FOR EACH CORNER LEG EXTENSION AND 2-3/4"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

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



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 |
|-----|------|--------|------|
| | | | |



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P.C.

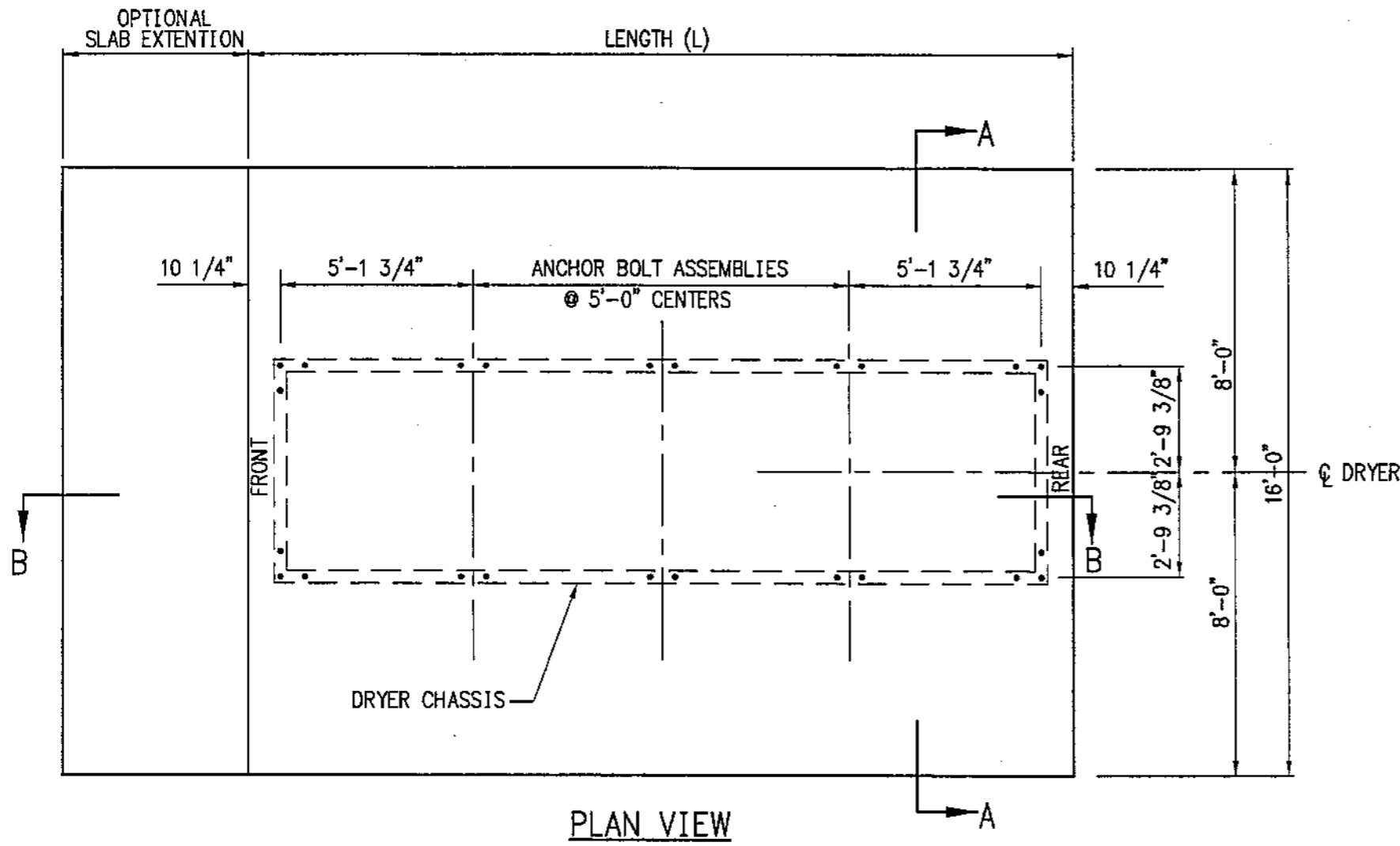
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1/4" = 1'-0"
PROJECT NO.
130-P167-002
DATE:
JANUARY, 1997
DRAWN BY:
BKS
APPROVED BY:
SHJ
DRAWING NO.
6810

TITLE
FOUNDATION PLAN
DPXST SERIES

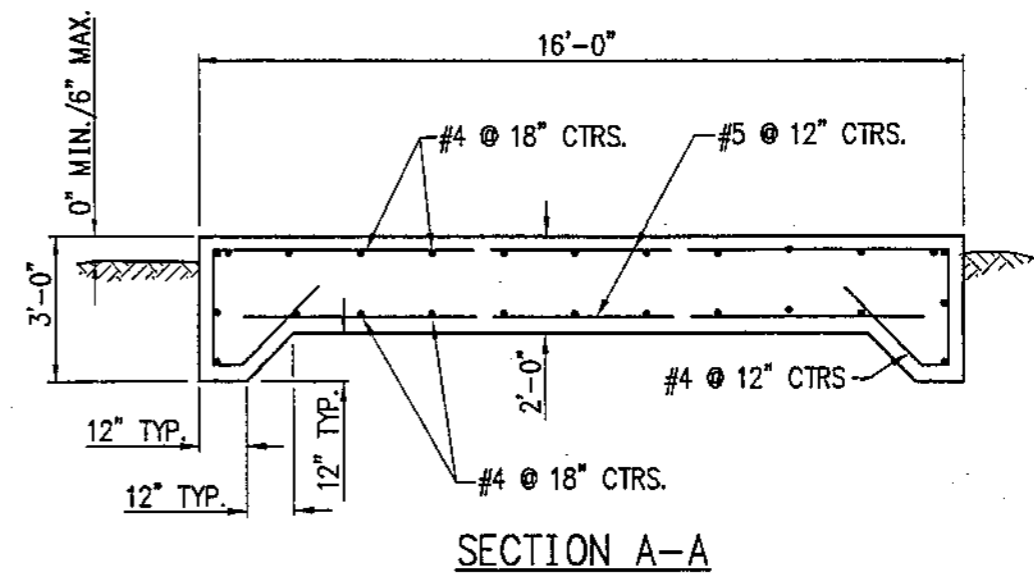
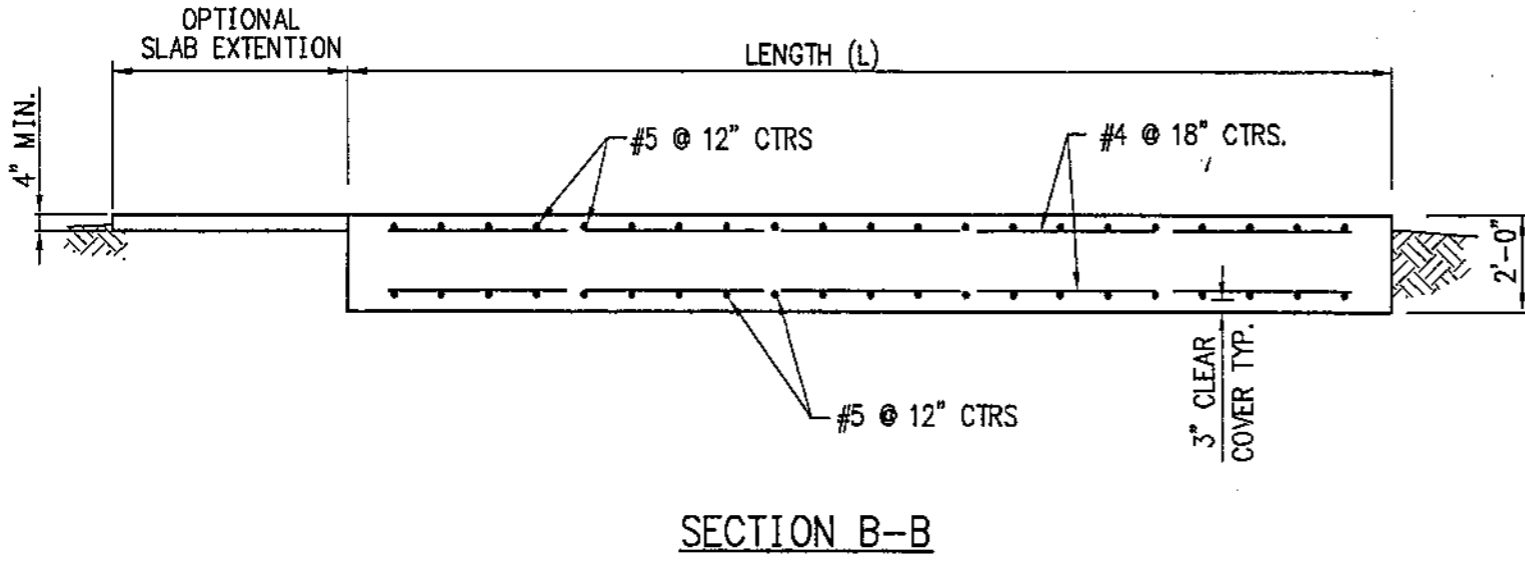
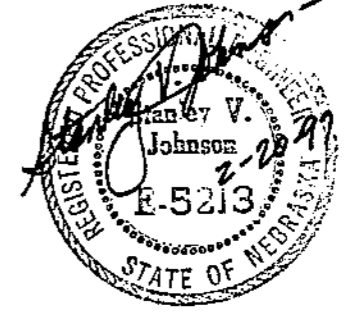
DELUX MFG. CO.
AIR BASE ROAD
KEARNEY, NEBRASKA



DELUX DRAWING NO.
900-006323
SHEET 1 OF 2




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



10.11.1997 10:58:47 C:\PROJECTS\130P167\130-5111

| 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 |

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



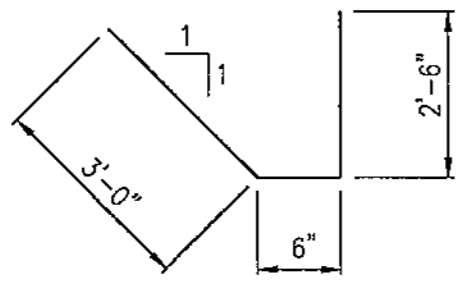
MILLER & ASSOCIATES
CONSULTING ENGINEERS,
P.C.

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

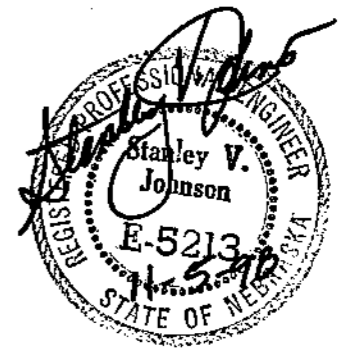
GENERAL NOTES

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

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**



FOUNDATION PLAN
DPX8T SERIES
DELUX MFG. CO.
 AIR BASE ROAD
 KEARNEY, NEBRASKA





MILLER &
ASSOCIATES
CONSULTING
ENGINEERS,
P.C.

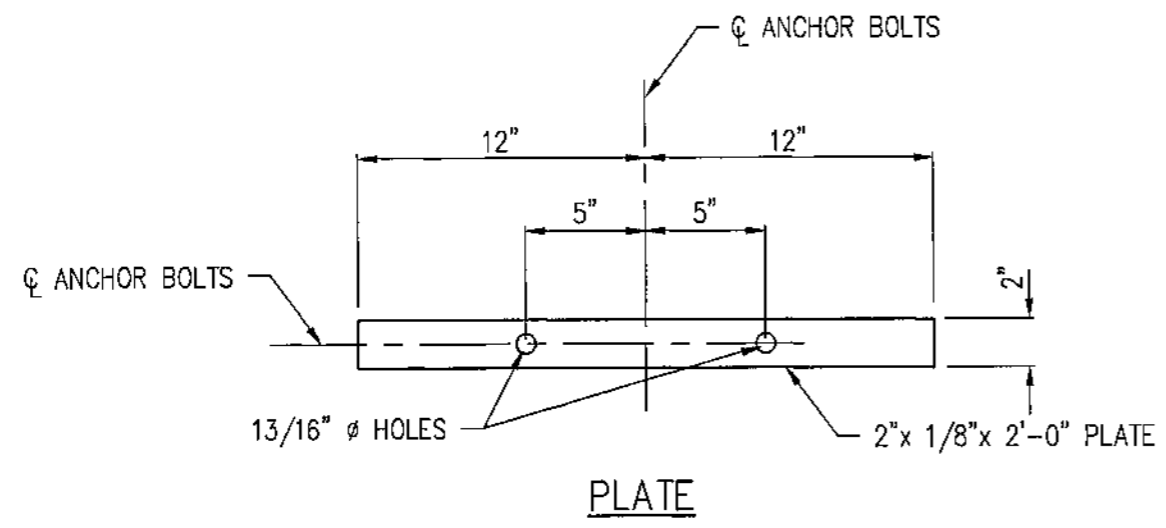
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PROJECT NO.
130-P187-002
DATE:
JANUARY, 1987
DRAWN BY:
BKS
APPROVED BY:
SVJ
DRAWING NO.
8803H

ANCHORS
DPX4T AND DPX8T SERIES

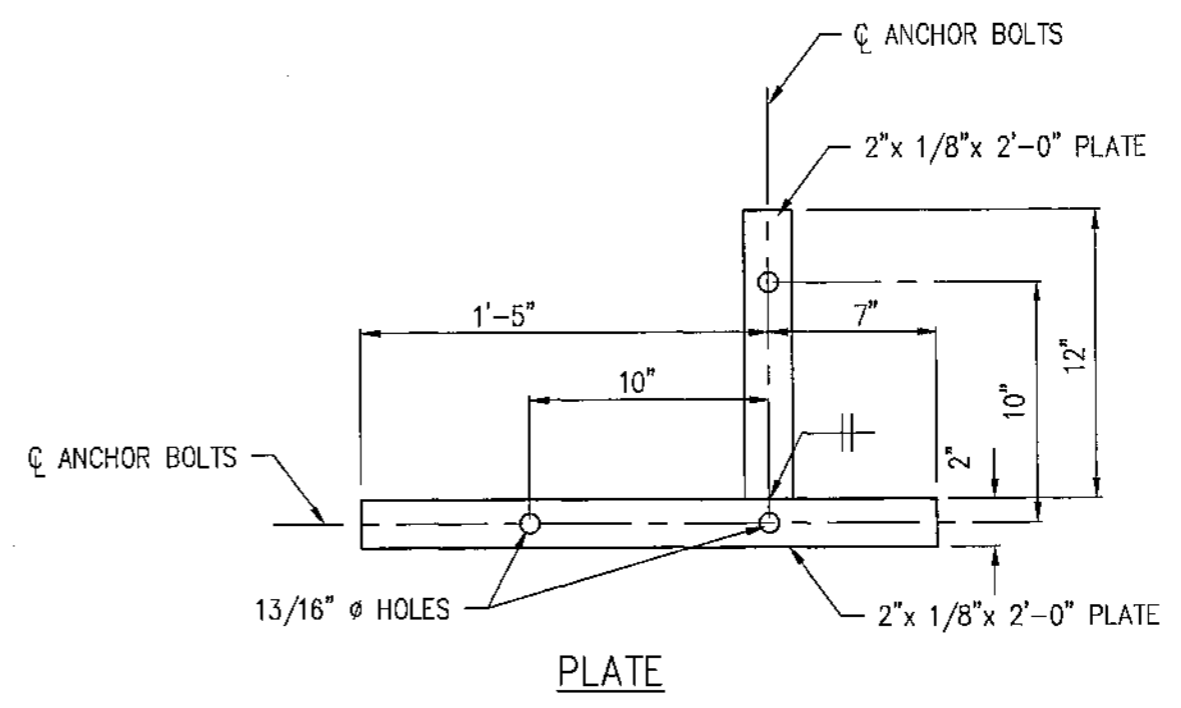
DELUX MFG. CO.
AIR BASE ROAD
KEARNEY, NEBRASKA



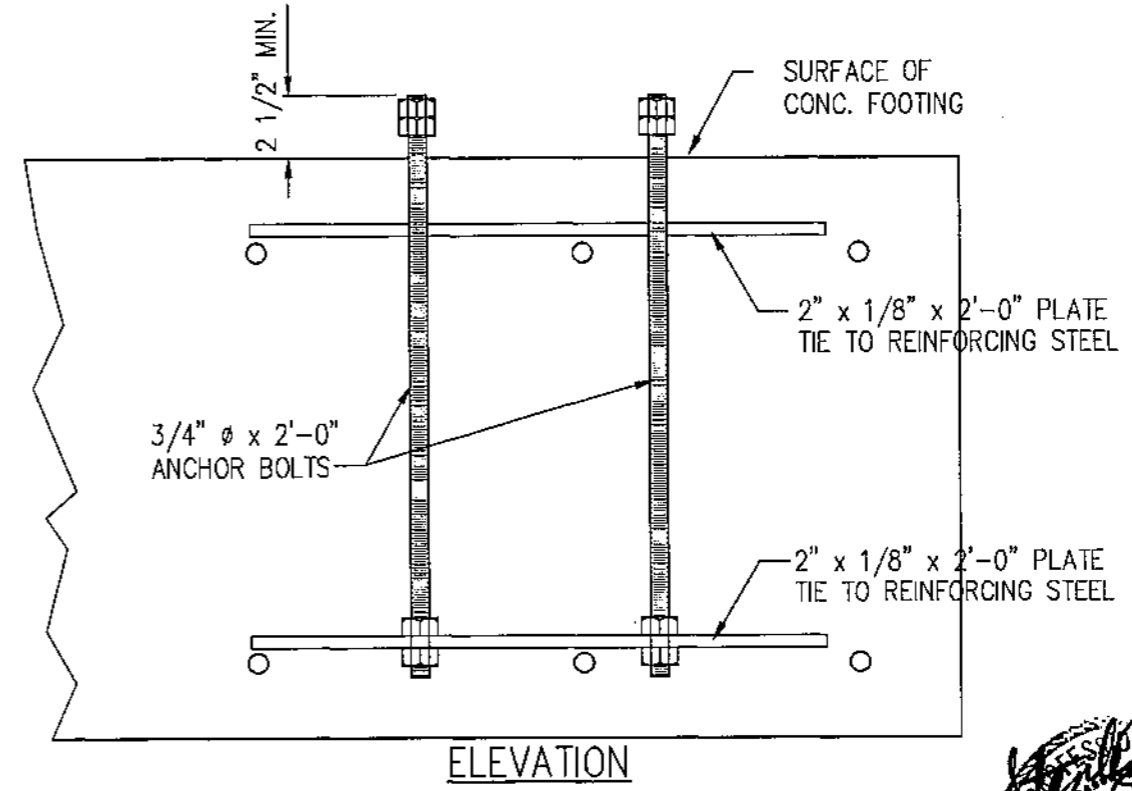
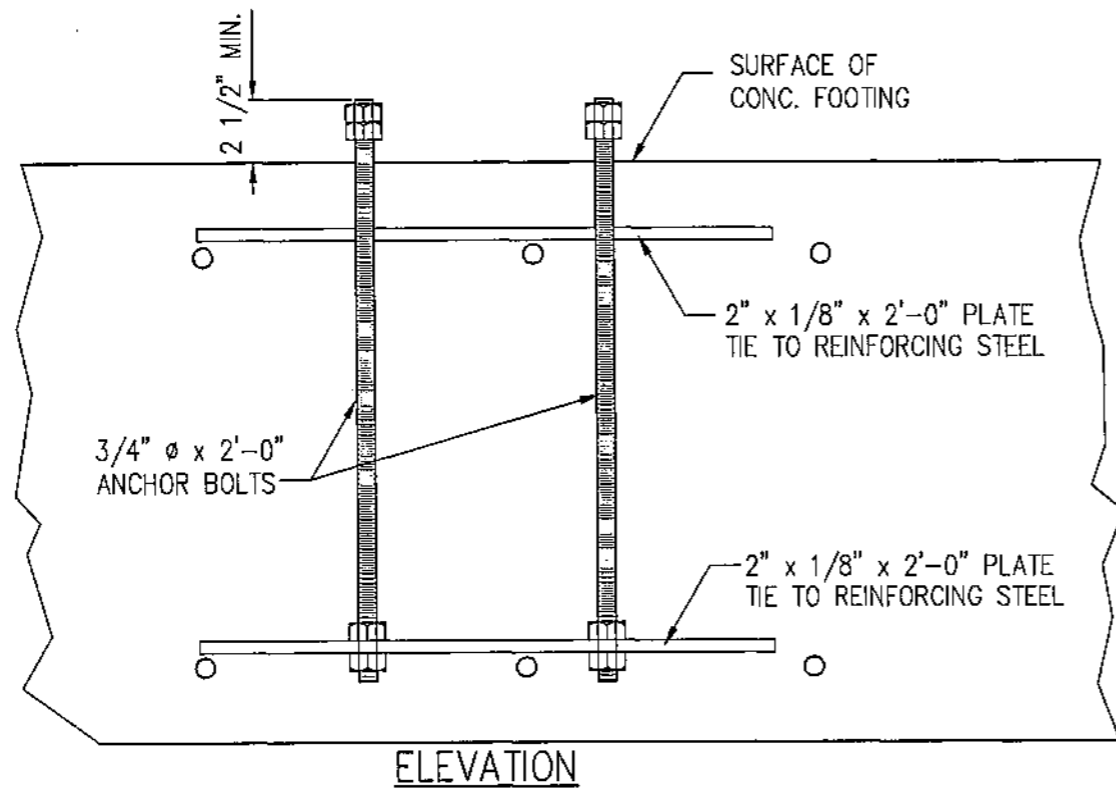
DELUX DRAWING NO.
900-006327
SHEET 1 OF 1



SIDE ANCHOR BOLT ASSEMBLY



CORNER ANCHOR BOLT ASSEMBLY



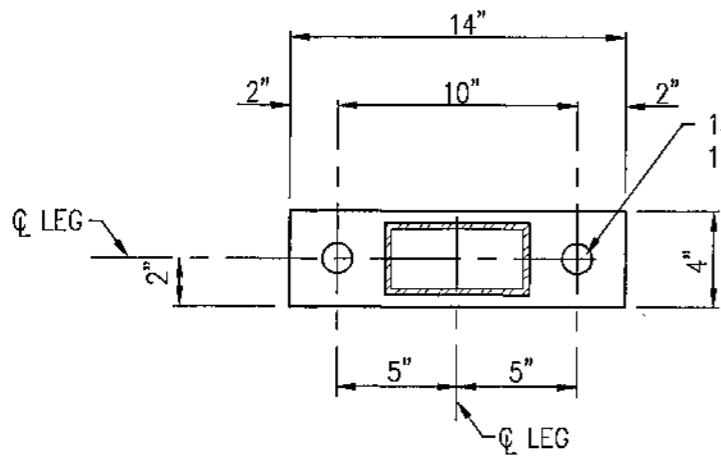
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| ECN | DATE | CHANGE | AUTH |
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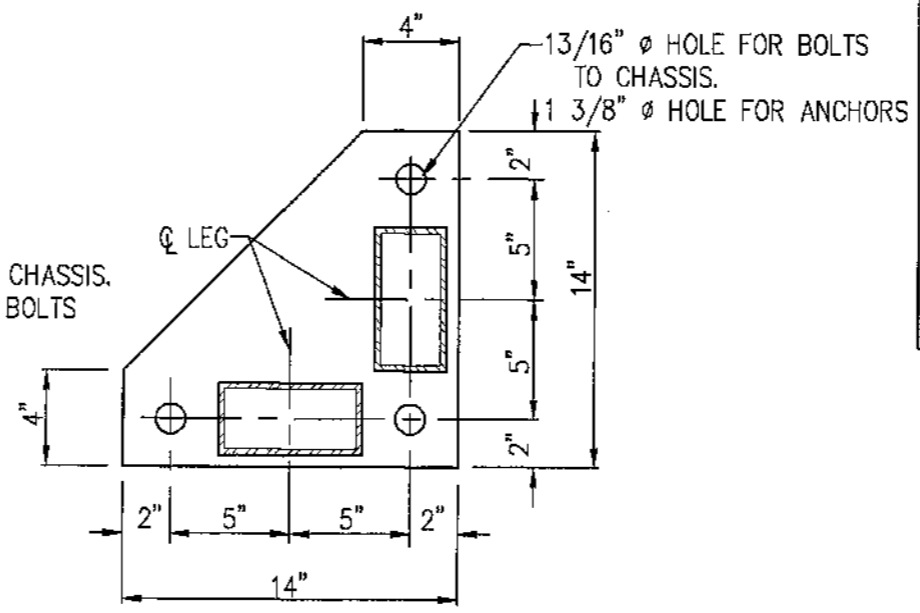


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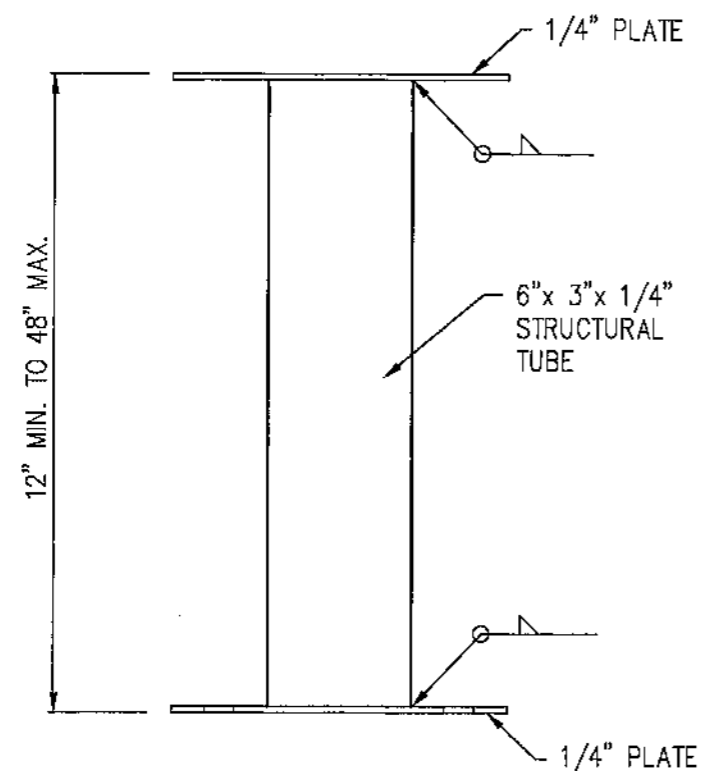
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130-1167-002
DATE:
JANUARY, 1987
DRAWN BY:
BKS
APPROVED BY:
SWJ
DRAWING NO.
6803C



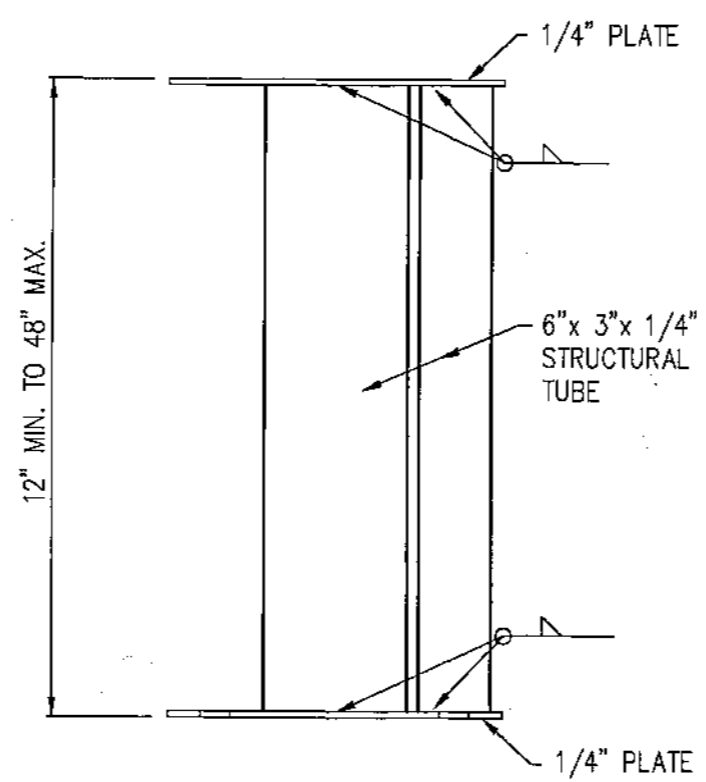
PLAN



PLAN



ELEVATION OF
SIDE LEG EXTENSION



ELEVATION OF
CORNER LEG EXTENSION

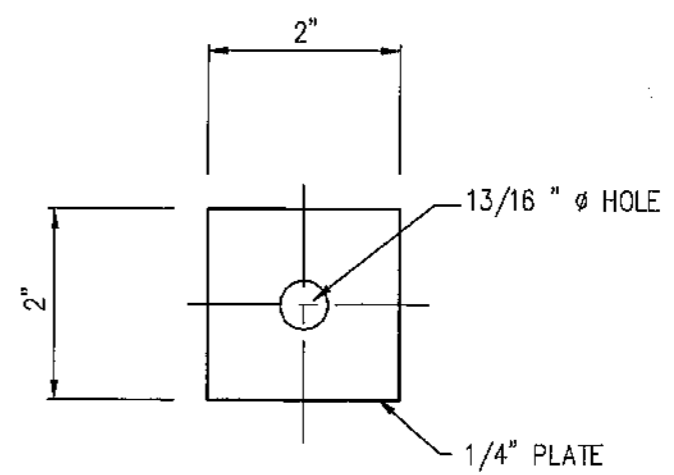
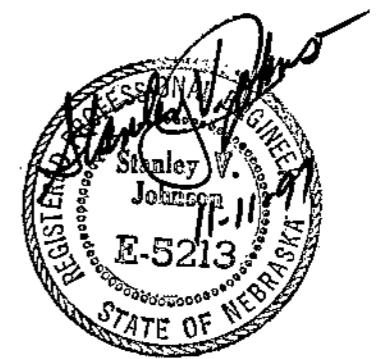


PLATE WASHER
NTS



LEG EXTENSION
DPX4T AND DPX8T SERIES

DELUX MFG. CO.
AIR BASE ROAD
KEARNEY, NEBRASKA



DELUX DRAWING NO.
900-006328
SHEET 1 OF 1

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| ECN | DATE | CHANGE | AUTH |
|-----|------|--------|------|
| | | | |

MA
MILLER & ASSOCIATES
CONSULTING ENGINEERS, P.C.

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

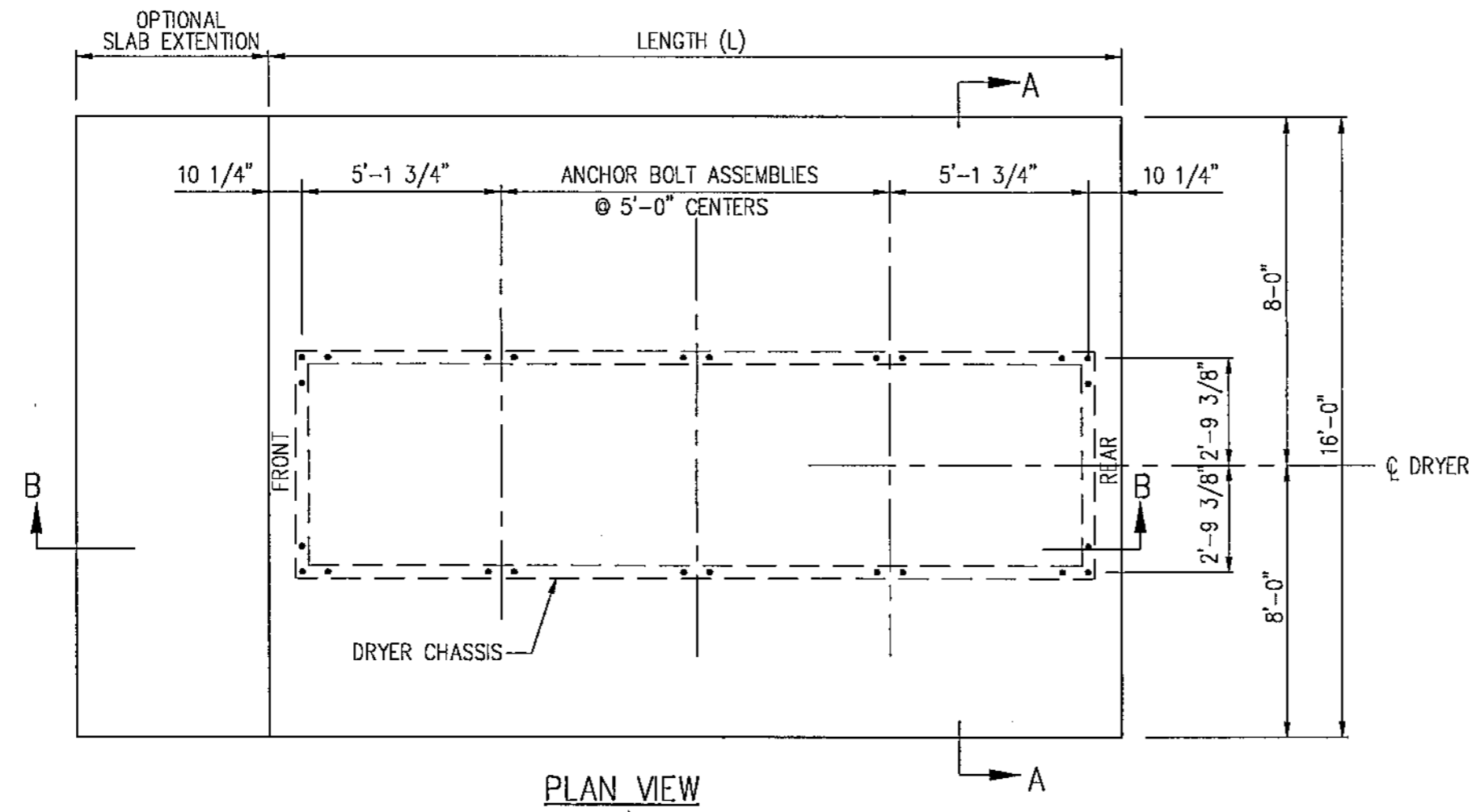
PROJECT NO.
130-P167-003

DATE:
FEBRUARY 2000

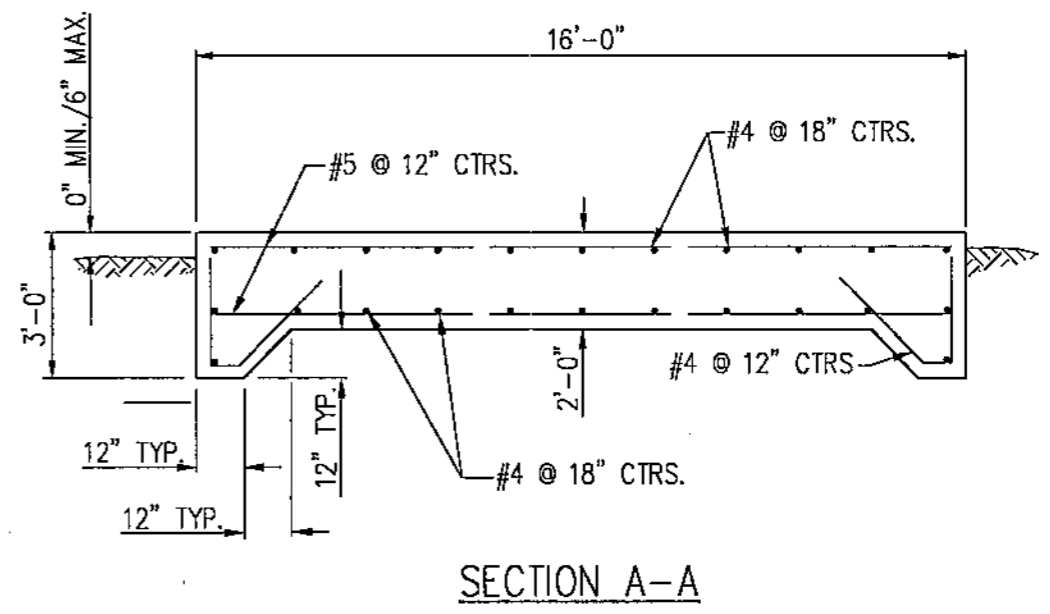
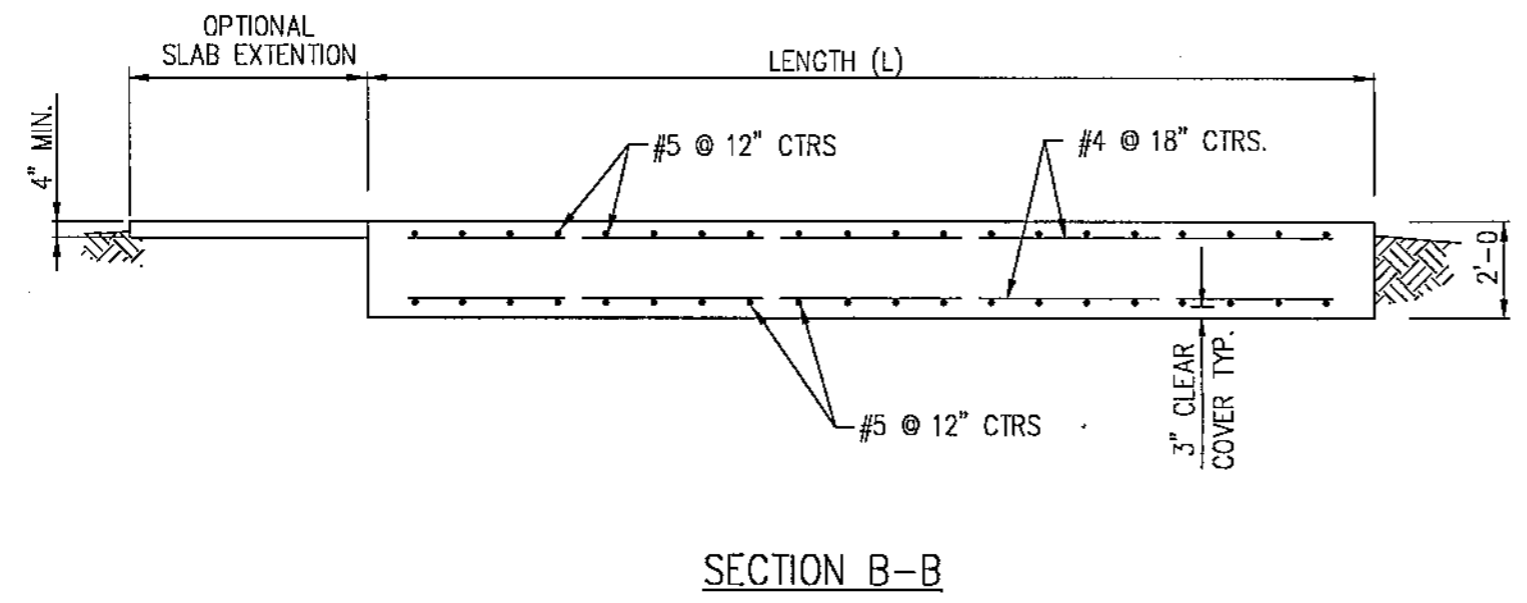
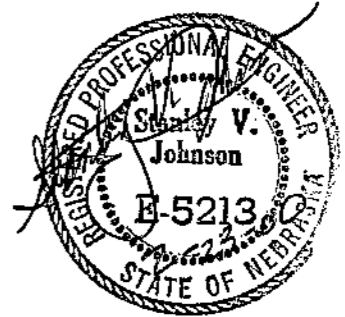
DRAWN BY:
CLB

APPROVED BY:
SVJ

DRAWING NO.
9185



- NOTES:
- "FRONT" INDICATES CONTROL PANEL END OF DRYER.
 - OPTIONAL SLAB EXTENTION 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



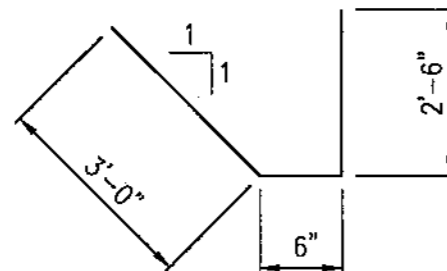
DELUX DRAWING NO.
900-007220
SHEET 1 OF 2

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

MA
MILLER & ASSOCIATES
CONSULTING ENGINEERS, P.C.

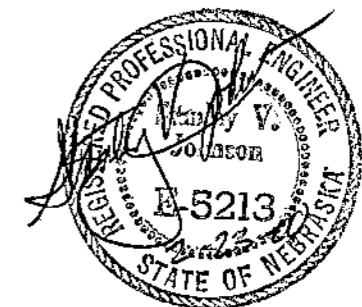
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DATE: JANUARY, 1997
DRAWN BY: BKS
APPROVED BY: SVJ
DRAWING NO. 9184

GENERAL NOTES

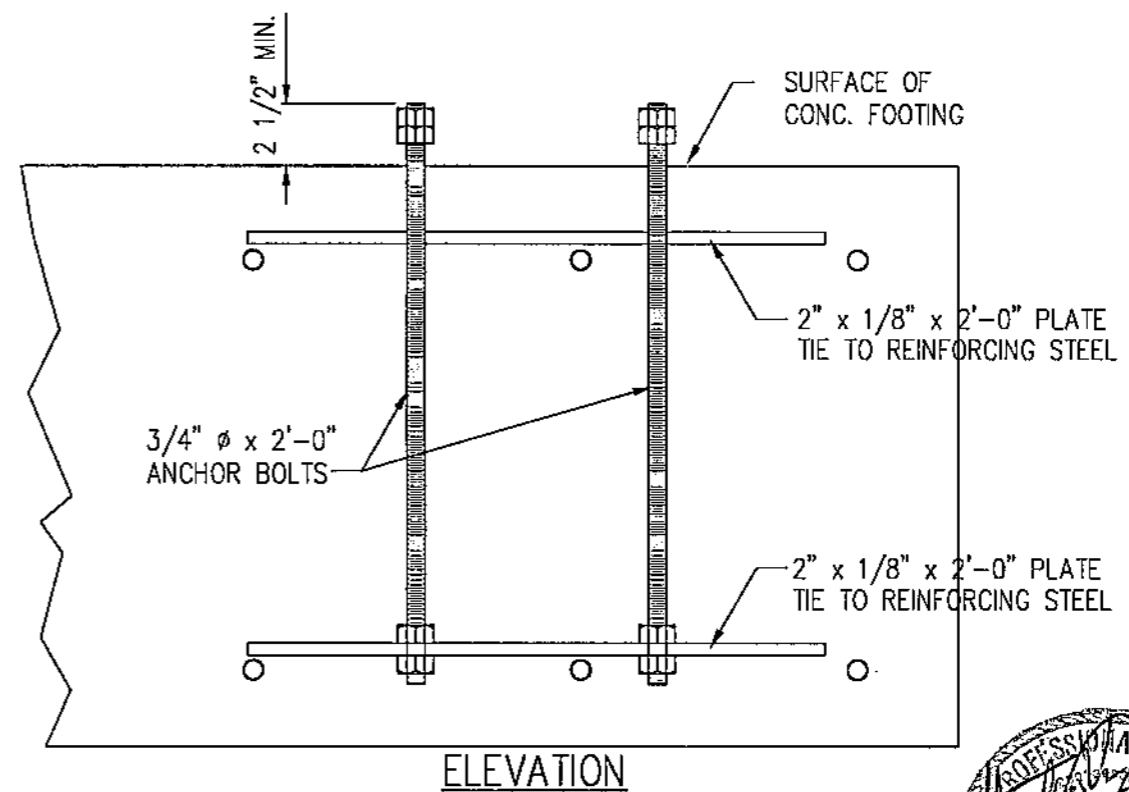
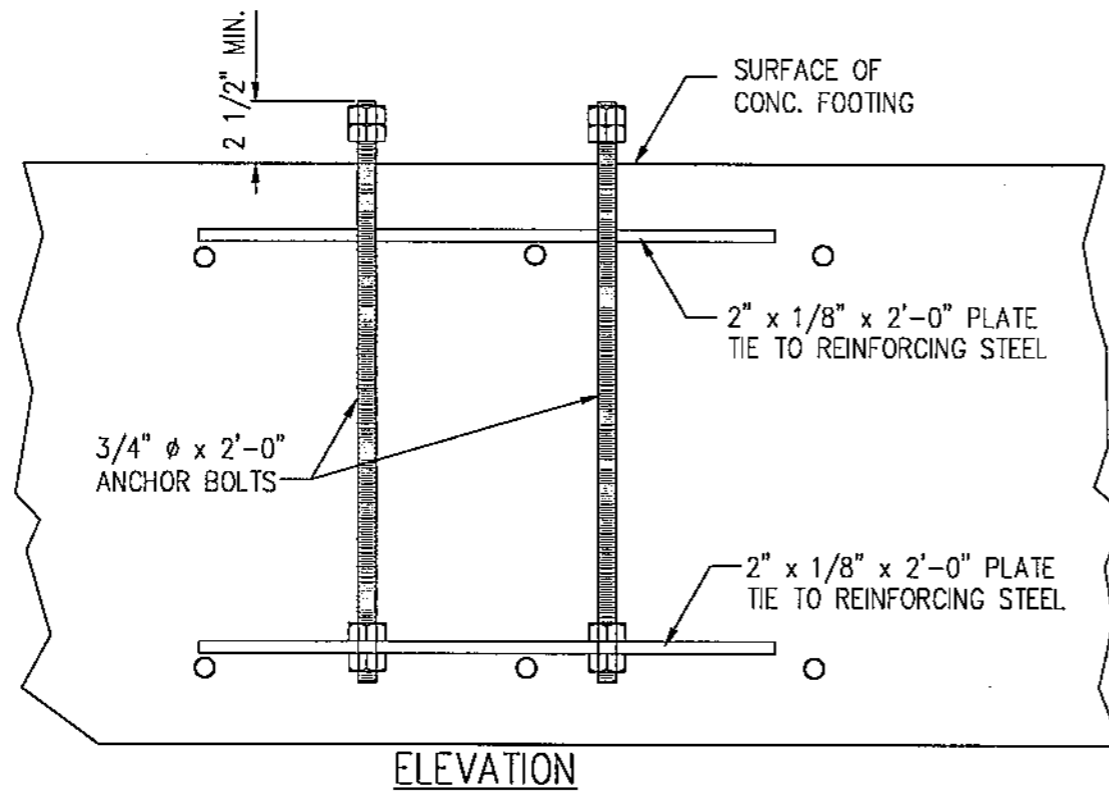
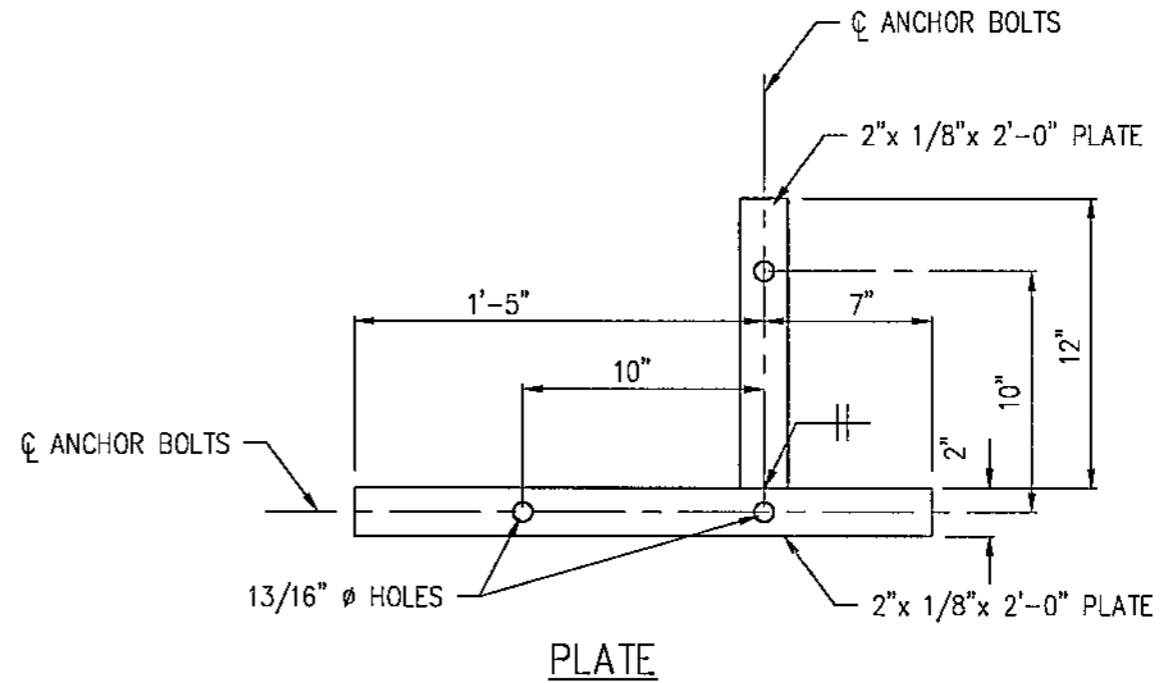
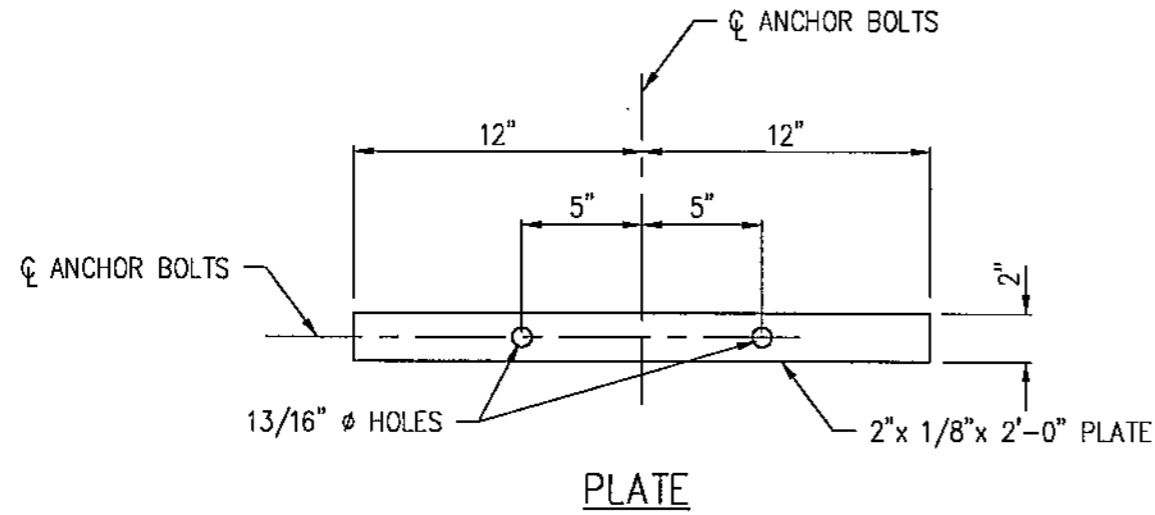
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2. FOOTINGS ARE DESIGNED FOR THE SPECIFIC MODEL NUMBER LISTED WITH A 4 FOOT MAXIMUM LEG EXTENSION.
3. ANCHORS SHALL BE 3-3/4" ϕ ANCHOR BOLTS FOR EACH CORNER LEG EXTENSION AND 2-3/4" ϕ ANCHOR BOLT FOR EACH SIDE LEG EXTENSION. PROVIDE 2" x 2" x 1/4" PLATE WASHERS FOR EACH ANCHOR BOLT.
4. DRYER MUST BE LEVEL ALONG LENGTH AND WIDTH AT ALL TIMES DURING DRYING PROCESS.
5. CONCRETE SHALL HAVE A MINIMUM 28 DAY STRENGTH OF 3000 PSI.
6. REINFORCING STEEL SHALL BE ASTM A615 GRADE 60.
7. MINIMUM SOIL BEARING CAPACITY SHALL BE 1250 PSF.

FOUNDATION PLAN
DPX12T SERIES

DELUX MFG. CO.
AIR BASE ROAD
KEARNEY, NEBRASKA

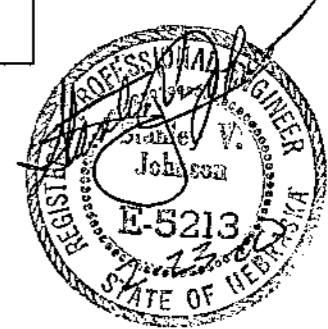


DELUX DRAWING NO. 900-007220
SHEET 2 OF 2



SIDE ANCHOR BOLT ASSEMBLY

CORNER ANCHOR BOLT ASSEMBLY



FEB 07, 2000 • 10:12:38 C:\Projects\130-pl167-003\12-1.dwg

MA
MILLER & ASSOCIATES
CONSULTING
ENGINEERS,
P.C.

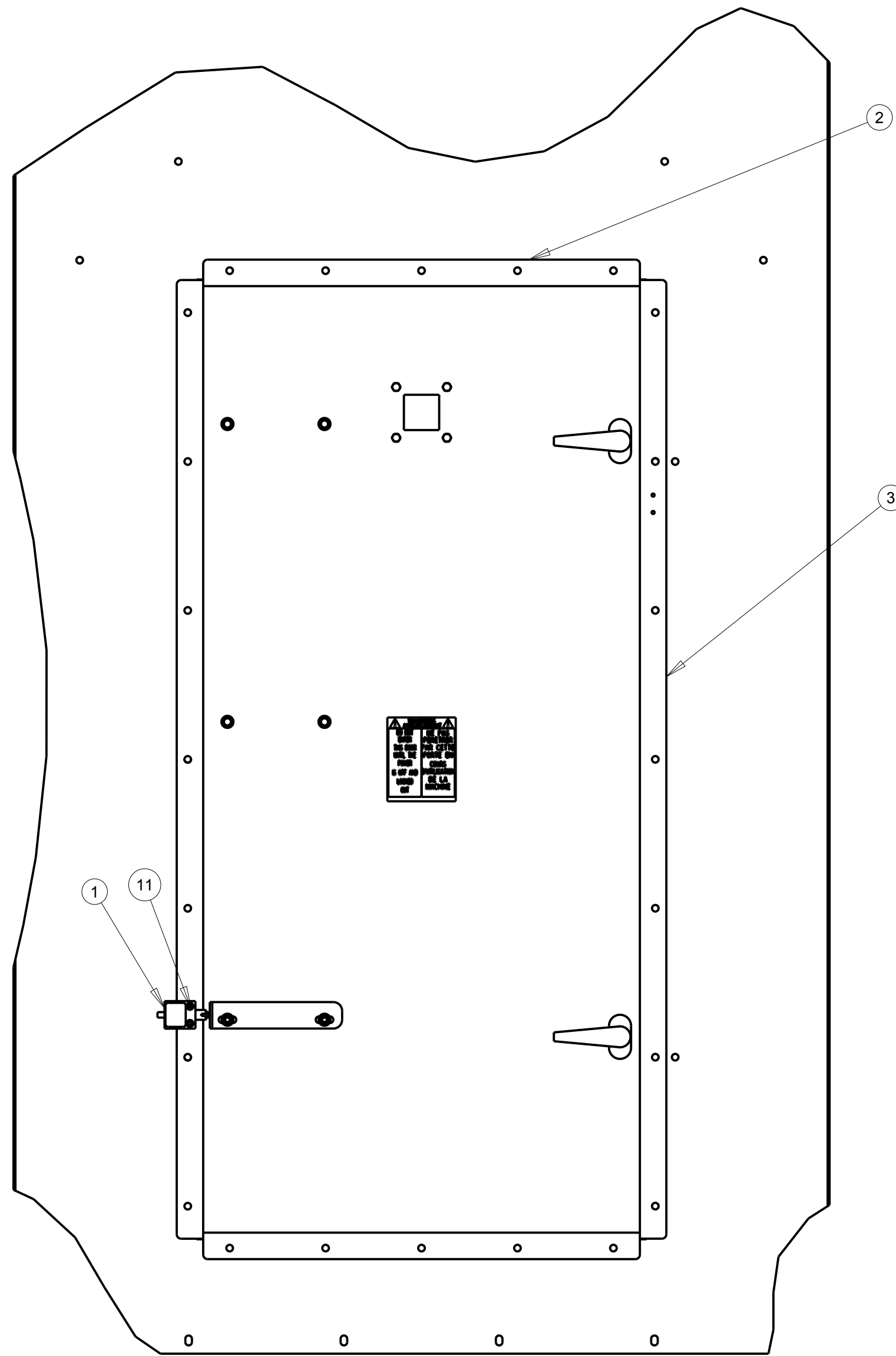
SCALE:
 PROJECT NO.
 130-P167-002
 DATE:
 JANUARY, 1997
 DRAWN BY:
 EKS
 APPROVED BY:
 SVJ
 DRAWING NO.
 9183

ANCHORS
 DPX12T SERIES

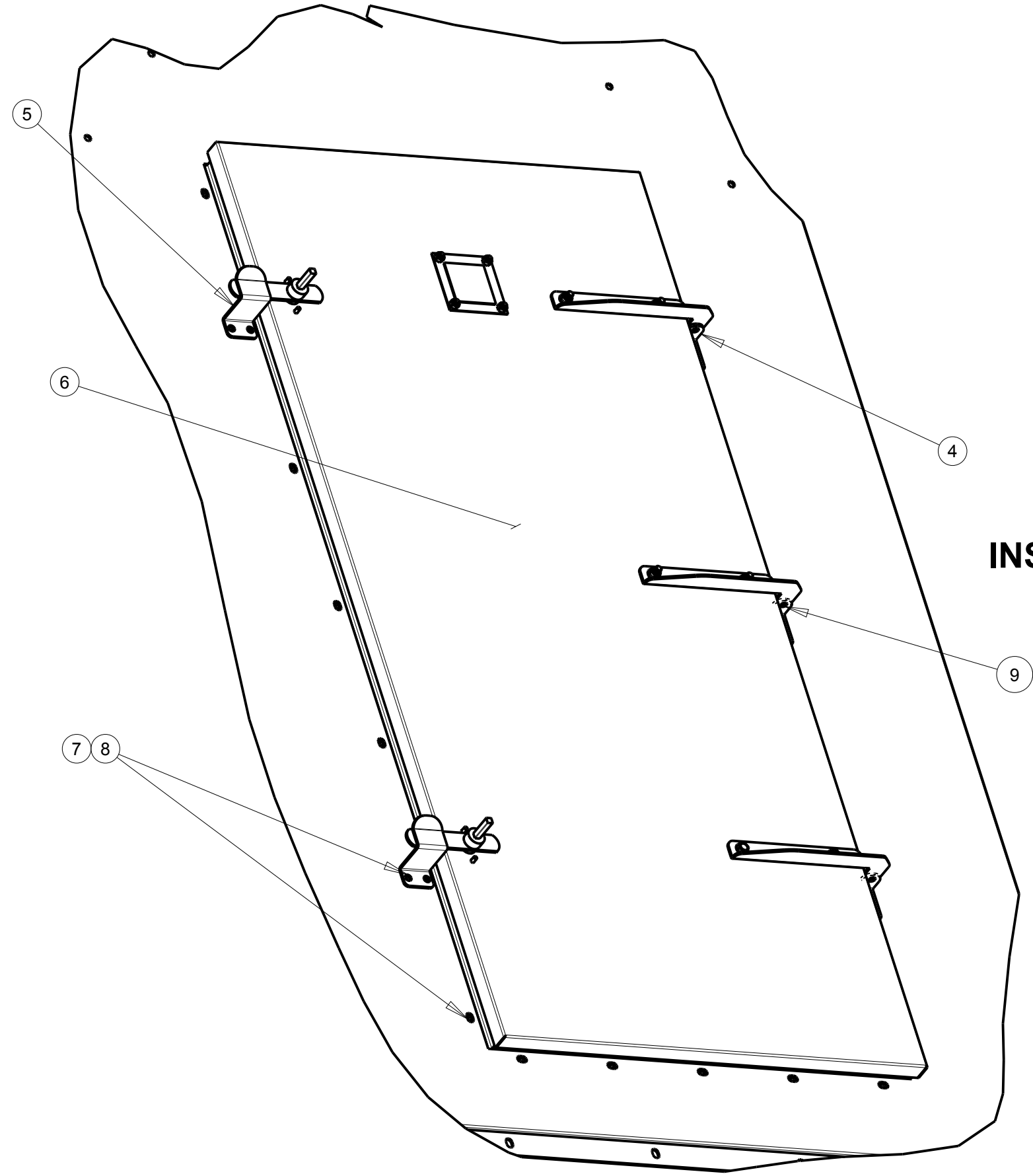
TITLE
DELUX MFG. CO.
 AIR BASE ROAD
 KEARNEY, NEBRASKA

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 #10-32UNF X 3/4" |



OUTSIDE OF DRYER

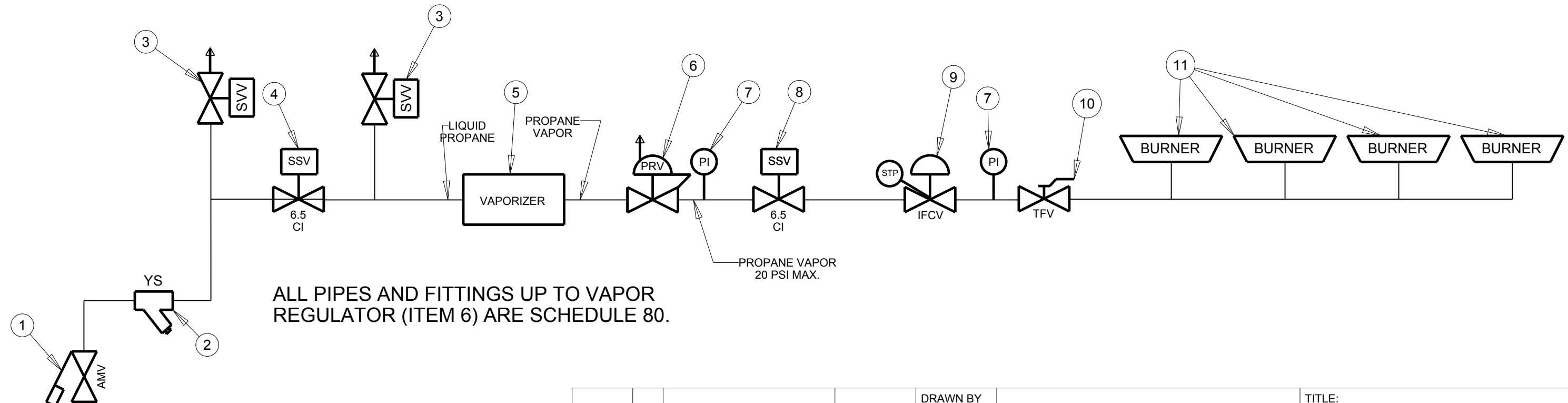


INSIDE OF DRYER

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

DELUX MFG. CO.
KEARNEY, NE

| ITEM | SYMBOL | DESCRIPTION |
|------|---------------|--|
| 1 | AMV | APPLIANCE MANUAL SHUT-OFF VALVE |
| 2 | YS | Y-STRAINER |
| 3 | SVV | HYDROSTATIC RELIEF VALVE |
| 4 | SSV (6.5, CI) | SAFETY SHUTOFF VALVE |
| 5 | VAPORIZER | INTERNAL - INDIRECT HEAT PROPANE VAPORIZER |
| 6 | PRV | PRESSURE REGULATOR |
| 7 | PI | PRESSURE INDICATOR |
| 8 | SSV (6.5, CI) | SAFETY SHUTOFF VALVE |
| 9 | IFCV/STP | INPUT FLOW CONTROL VALVE WITH TRAVEL STOP |
| 10 | TFV | TEST FIRE VALVE |
| 11 | BURNER | BURNER - (DELUX MFG. CO.) |

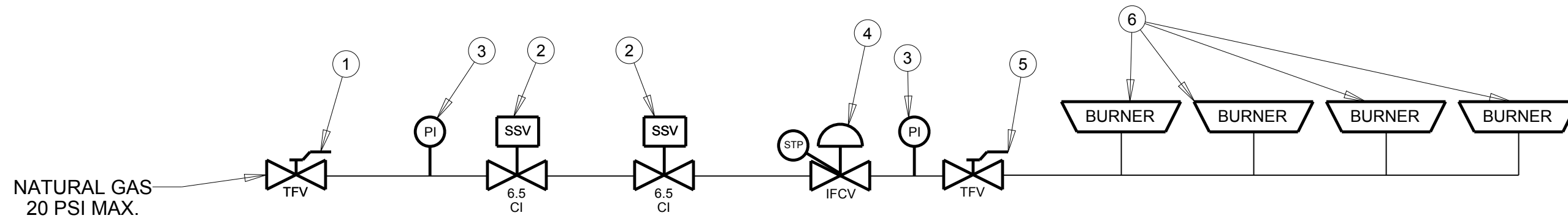


ALL PIPES AND FITTINGS UP TO VAPOR REGULATOR (ITEM 6) ARE SCHEDULE 80.

LIQUID PROPANE
250 PSI MAX.
MUST ALSO HAVE
VAPOR DRAW FOR
START-UP. SEE
OWNERS MANUAL.

| | | | | | | | | |
|------|-----|-------------|------|--|--------------------------------------|------------|--|--|
| | | | | DRAWN BY MEL | DELUX MFG. CO. KEARNEY, NE | | TITLE: PLUMBING SCHEMATIC PROPANE-1 THRU 4 BURNER DP THRU DPX16GT SERIES 2015+ | |
| | | | | DATE 03/03/15 | | | | |
| | | | | CHK'D | USED ON: | | DRAWING NO. 900-010902 | |
| | | | | | NEXT ASS'Y: | | | |
| | | | | SCALE | MATL. | SHEAR SIZE | | |
| ECO# | LET | DESCRIPTION | DATE | TOLERANCE: DECIMAL ±.010 FRACTION ±1/32 ANGLE ±1° UNLESS OTHERWISE SPECIFIED | | | | |

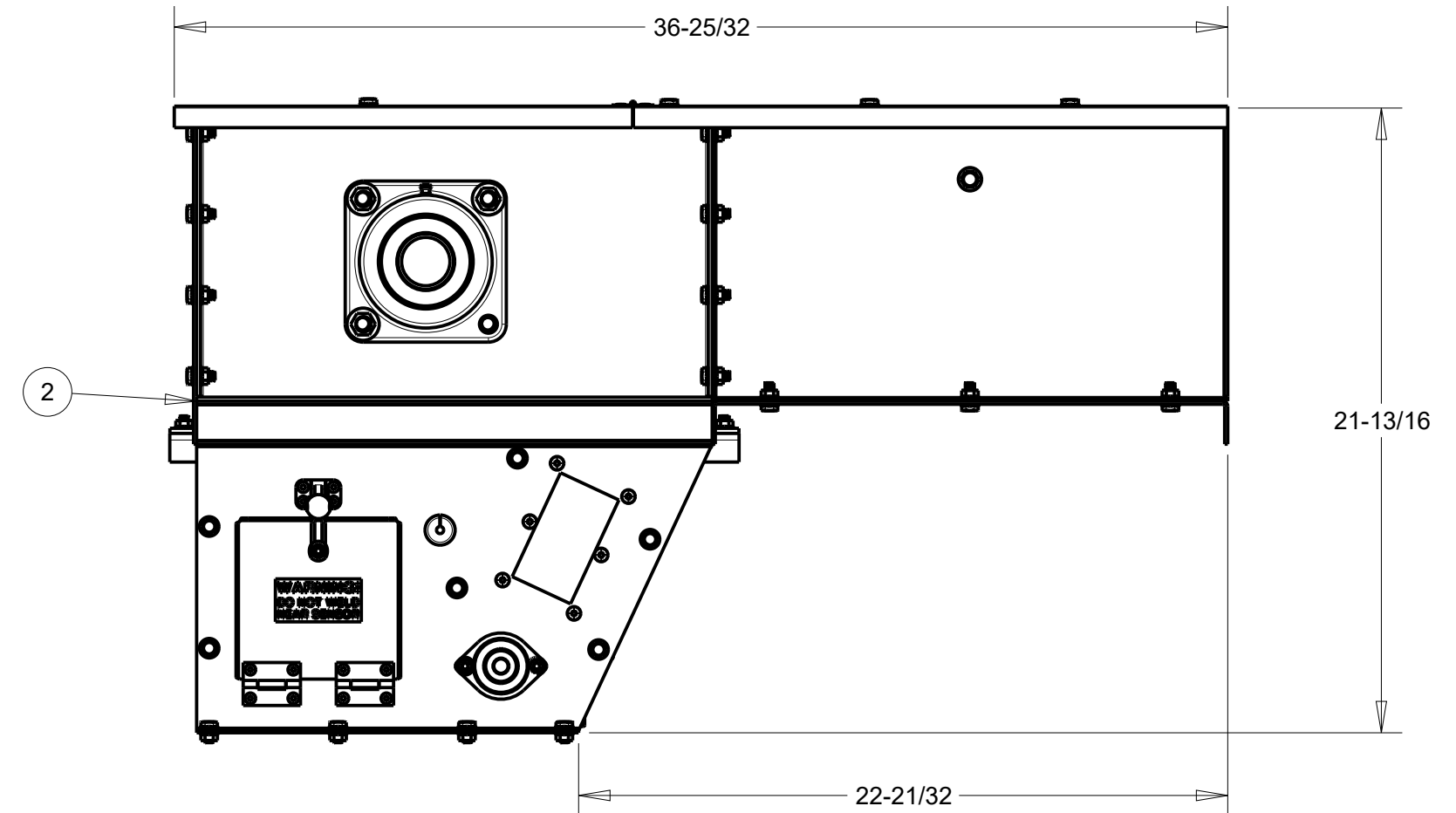
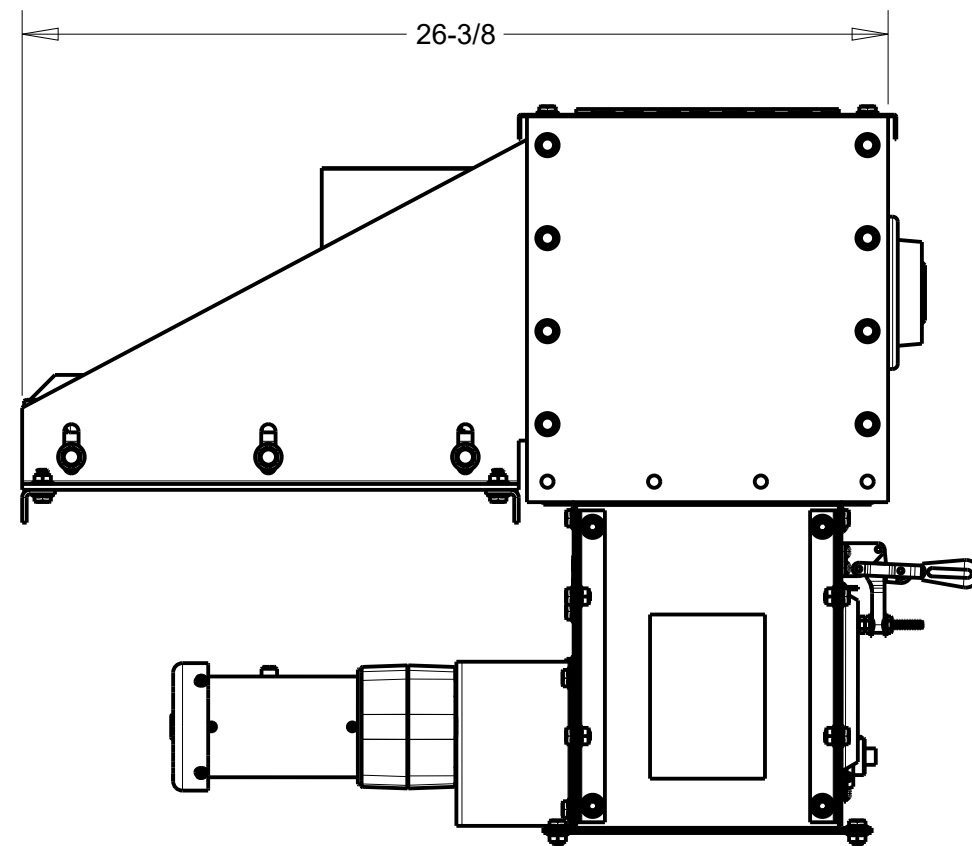
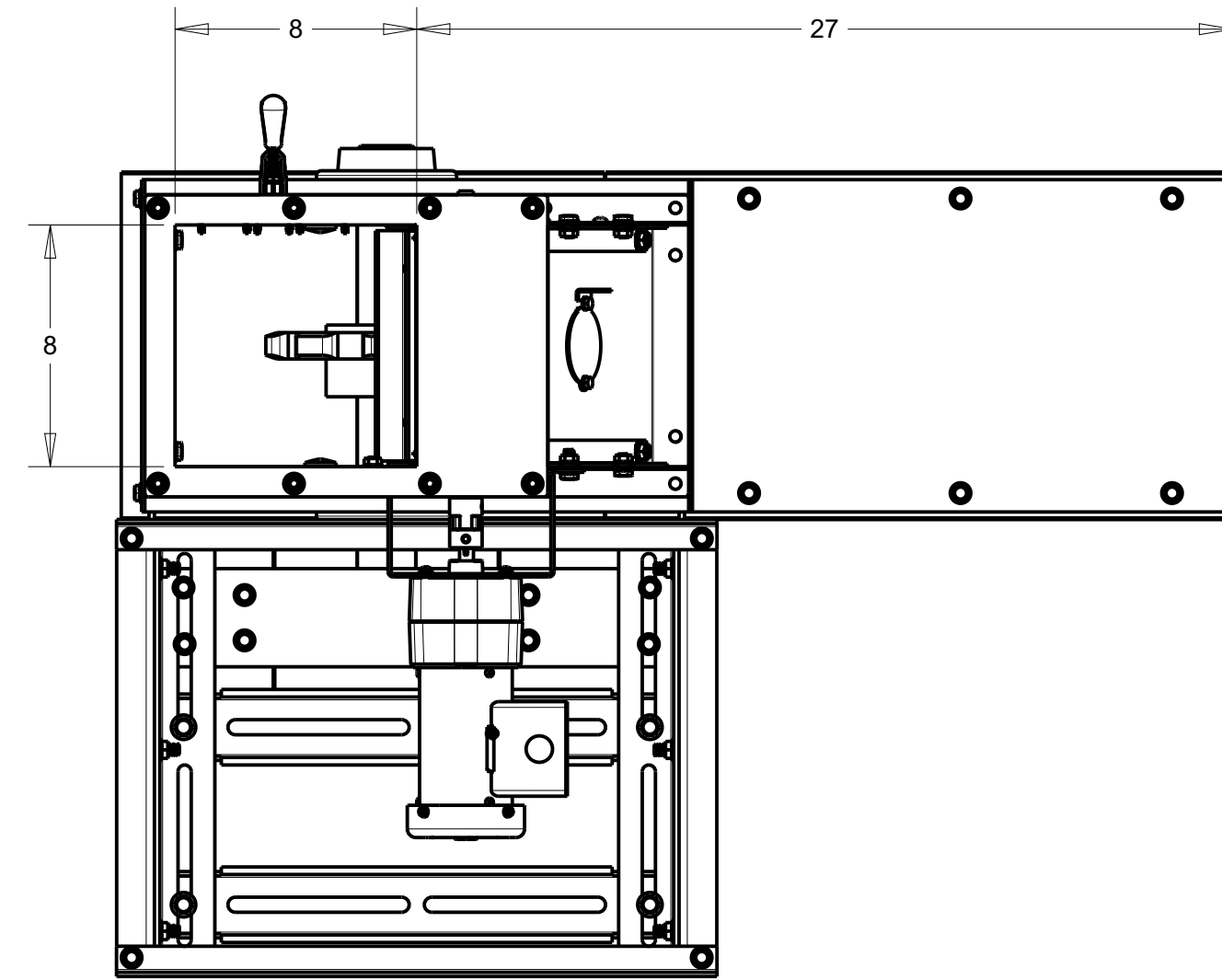
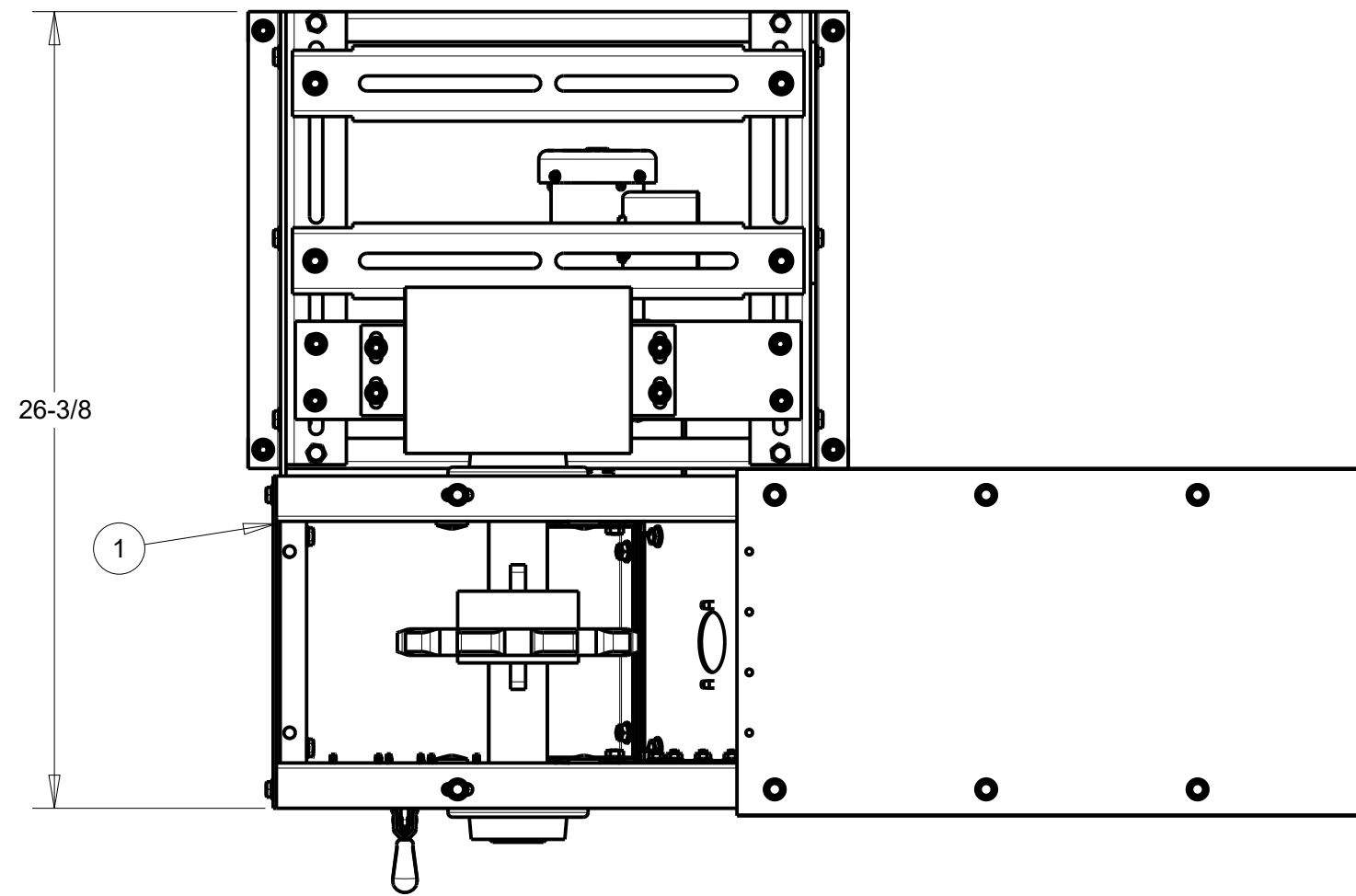
| ITEM | SYMBOL | DESCRIPTION |
|------|---------------|---|
| 1 | AMV | APPLIANCE MANUAL SHUT-OFF VALVE |
| 2 | SSV (6.5, CI) | SAFETY SHUTOFF VALVE |
| 3 | PI | PRESSURE INDICATOR |
| 4 | IFCV/STP | INPUT FLOW CONTROL VALVE WITH TRAVEL STOP |
| 5 | TFV | TEST FIRE VALVE |
| 6 | BURNER | BURNER - (DELUX MFG. CO.) |



| | | | | | | | |
|------|-----|-------------|------|------------------|--------------------------------------|------------|---|
| | | | | DRAWN BY MEL | DELUX MFG. CO. KEARNEY, NE | | TITLE: PLUMBING SCHEMATIC NAT. GAS-1 THRU 4 BURNER DP THRU DPX16GT SERIES 2015+ |
| | | | | DATE 03/03/15 | | | |
| | | | | CHK'D | USED ON: | | |
| | | | | | NEXT ASS'Y: | | |
| | | | | SCALE | MATL. | SHEAR SIZE | DRAWING NO. 900-010903 |
| ECO# | LET | DESCRIPTION | DATE | | | | |

TOLERANCE: DECIMAL ±.010 FRACTION ±1/32 ANGLE ±1° UNLESS OTHERWISE SPECIFIED

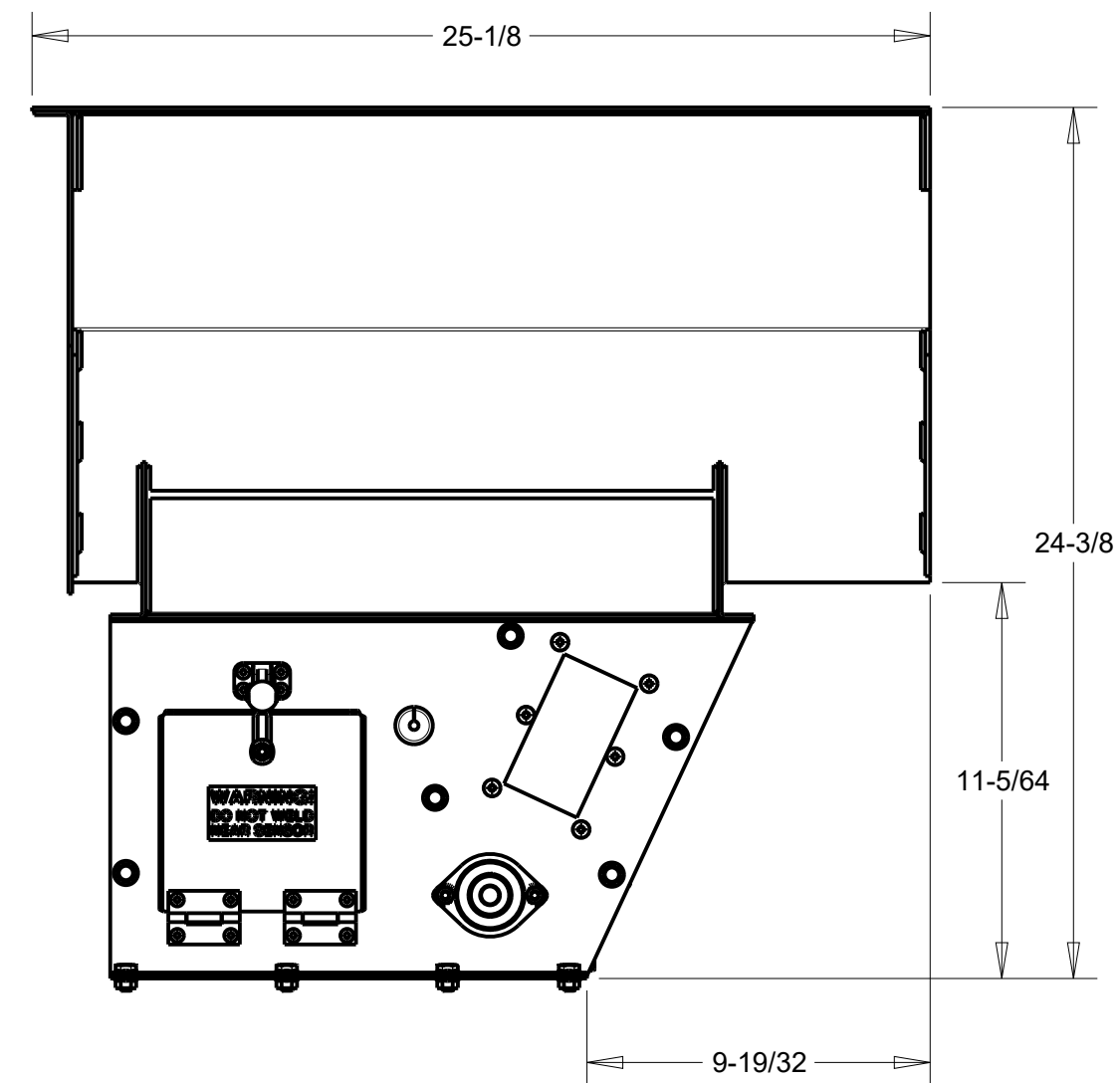
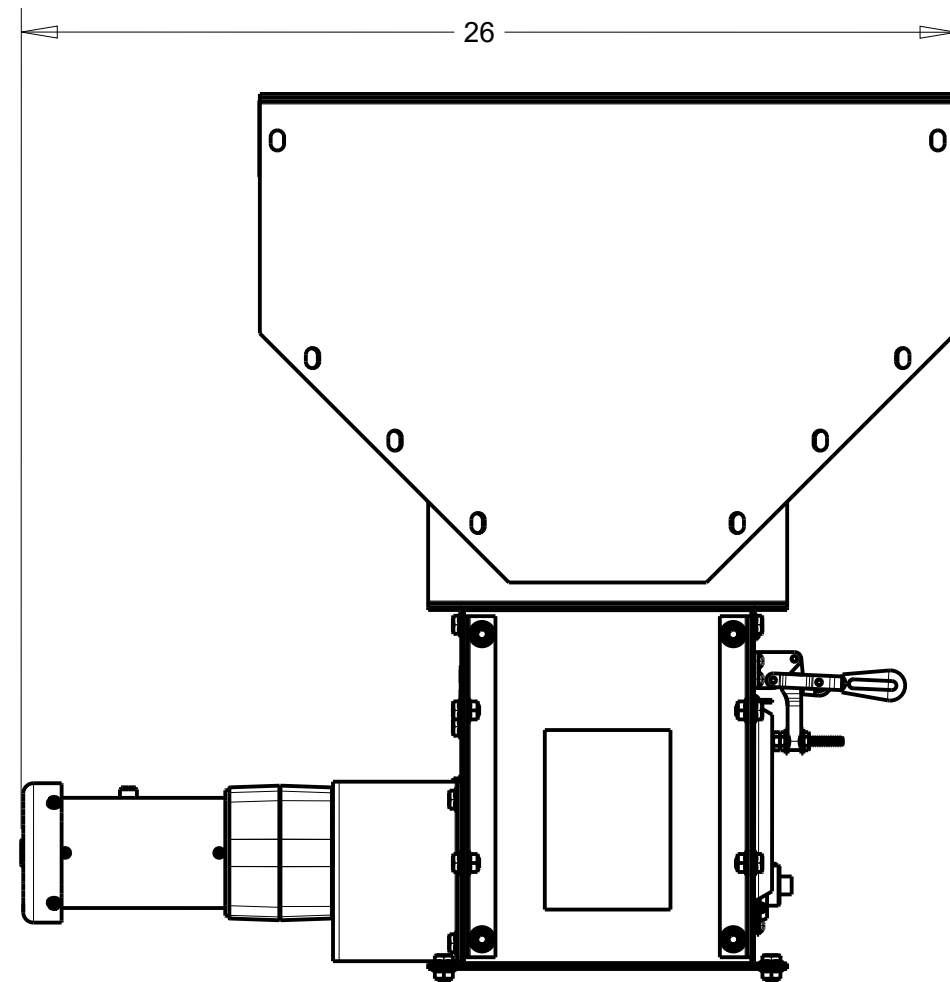
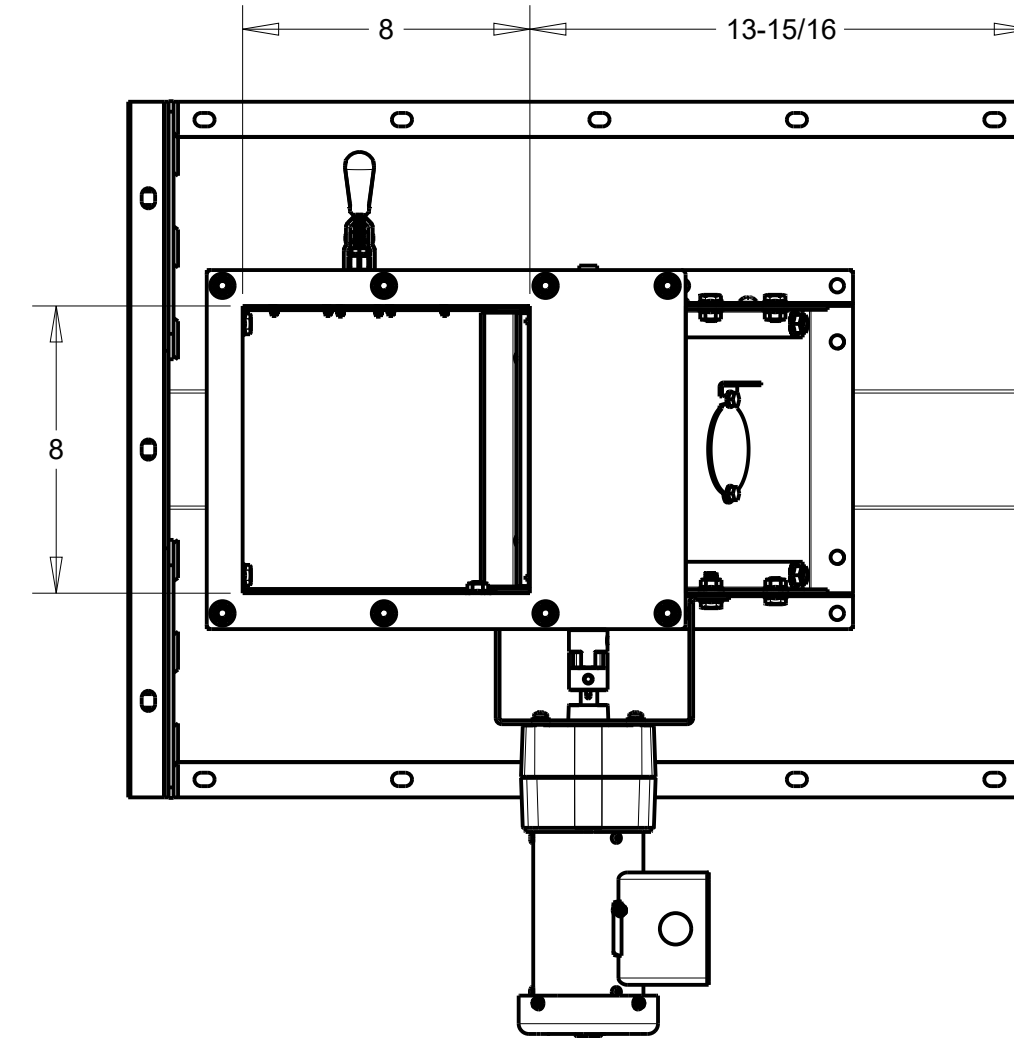
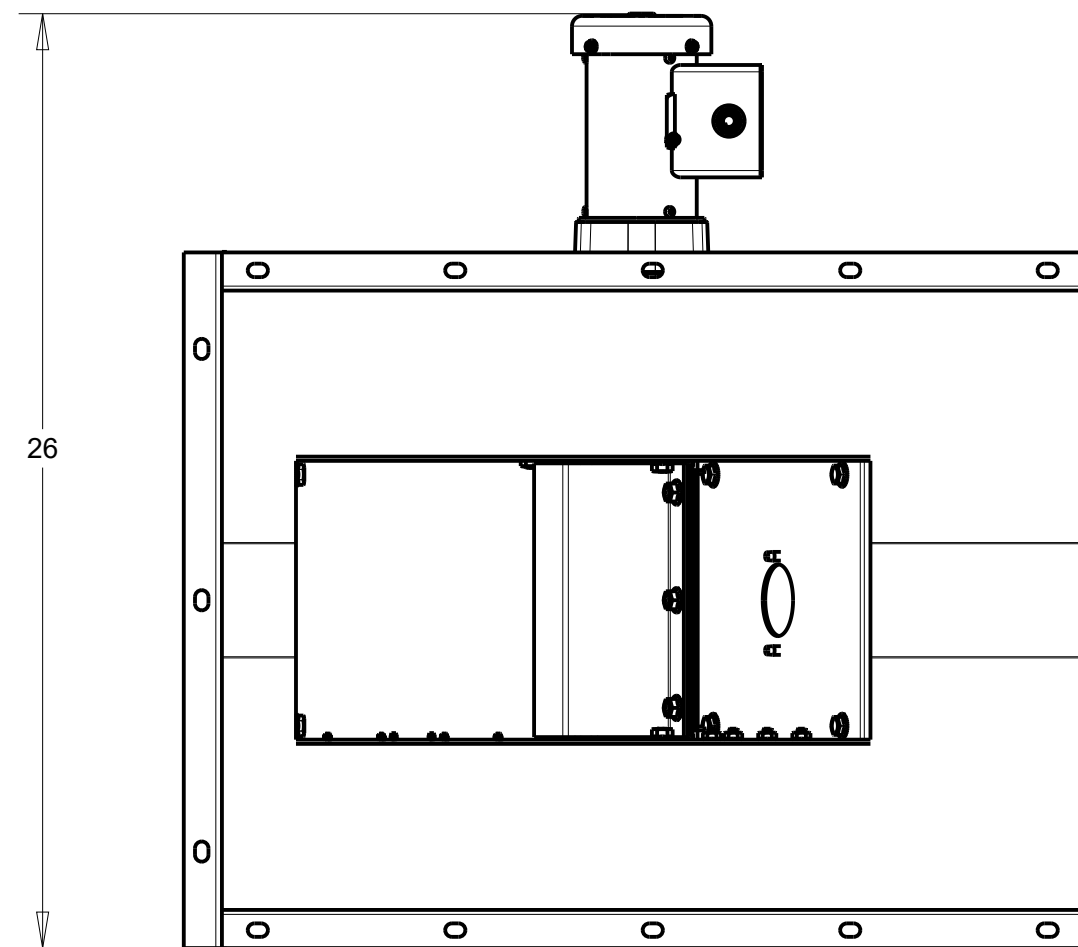
| ITEM | PART NUMBER | QTY | DESCRIPTION |
|------|-------------|-----|---|
| 1 | 100-010159 | 2 | ANGLE - FRONT/REAR - DRAG TO MLNK BY-PASS |
| 2 | 100-010160 | 2 | ANGLE - SIDE - DRAG TO MLNK BY-PASS |
| 3 | 400-008731 | 1 | ASSY-HEAD-8X10 DRAG-HEAD DISCH |
| 4 | 400-010113 | 1 | SENSOR BY-PASS CHUTE - 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: | | DRAWING NO. 900-010161 | |
| | | | | NEXT ASS'Y: | | | | |
| | | | | SCALE .171 | MATL. | SHEAR SIZE | | |
| ECO# | LET | DESCRIPTION | DATE | TOLERANCE: DECIMAL ±.010 FRACTION ±1/32 ANGLE ±1° UNLESS OTHERWISE SPECIFIED | | | | |

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



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.

| | | | | | | | | |
|------|-----|-------------|------|--|--------------------------------------|------------|--|--|
| | | | | 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 ASS'Y: | | | |
| | | | | SCALE .187 | MATL. | SHEAR SIZE | DRAWING NO. 900-010162 | |
| ECO# | LET | DESCRIPTION | DATE | TOLERANCE: DECIMAL ±.010 FRACTION ±1/32 ANGLE ±1° UNLESS OTHERWISE SPECIFIED | | | | |