SURFACE MOUNTED CONTINUOUS BASE INSTALLATION

THIS CONFIGURATION IS MOST OFTEN USED FOR FLEET MAINTENANCE, REPAIR AND SERVICE APPLICATIONS.

THE LIFT UNIT TRAVELS TO THE REAR APPROXIMATELY 36 1/2" DURING THE VERTICAL ARTICULATION.
STANDARD CONSOLE LOCATION LAYOUT
SEE NOTE 18 IN REGARDS TO ALTERNATE LOCATIONS

50-32-SURFACE

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MOHAWK RESOURCES LTD.

FILE NAME: P-1510-0-001
NEXT ASSEMBLY:
DATE: 7/08
WEIGHT:
FROM:
SERVING NUMBER:

TOLERANCES:
SERIAL: ± 1.5
ELECTRICAL: ± 3/16
EXTRA: ± 1/8
SHEET: ± 3/16

SCALE: 1/32
DRAWN:
CHECKED:
APPROVED:

TITLE: 50-32-SURFACE STANDARD CONSOLE LOCATION LAYOUT

NOTES:
1. REMOVE ALL SHARP CORNERS & EDGES.
2. UNLESS OTHERWISE SPECIFIED, SURFACE FINISH TO BE 125 RPM.
3. WELDING MEDIUM SHALL COMPLY TO AWS SPECIFICATIONS TO E-70XX ELECTRODES OR E-7018 (CORE 3.2 FILLER WIRE ONLY).

CONTACT: P-1510-0-001
COMPRESSED AIR SUPPLY CONDUIT
SEE NOTE 21

POWER SUPPLY CONDUIT
SEE NOTE 20

HYDRAULIC SUPPLY CONDUIT
SEE NOTE 15

SEE ANCHOR DETAILS

PLATFORM OUTLINE (TYP) SHOWN RETRACTED

109.50
45.00

FRONT

100.00
384.00
484.00

ALTERNATE CONSOLE LOCATION

RIGHT RUNWAY

ELECTRICAL SERVICE SUPPLY CONDUIT
SEE NOTE 16

APPROACH RAMP
UP

APPROACH RAMP
UP

36"

CONTROL PANEL
SEE NOTE 18

OPERATOR SIDE OF CONSOLE

B
C
D

16"

LEFT RUNWAY
CONTROL CONSOLE & STUB-UP DETAILS

INCOMING CONDUITS TO PROTRUDE FROM FLOOR ~18" (460–500 mm) AS SHOWN (SEE TOP VIEW)

TOP VIEW OF CONSOLE FRAME

1 3/4 TYP (44)

UNITS = INCH (mm)

10 5/8 (270)

BACK OF CONSOLE

32 1/2 (826)

36 (914)

31 (787)
28 (711)
25 (635)
22 (559)
18 (457)
12 (305)
8 (203)
5 (127)
0

BY OTHERS

CONTROL PANEL

BACK

FRONT OF CONSOLE

CONDUIT SIZES & APPLICATION:
A: 1" (MIN) SCHED 40 STEEL PIPE - INCOMING POWER
B: 1" (MIN) SCHED 40 STEEL PIPE - INCOMING AIRLINE
C,D: 4" SCHED 40 PVC PIPE - HYDRAULIC & AIR TO LIFT
E,F,G,H: 1" (MIN) SCHED 40 STEEL PIPE - ELECTRICAL TO LIFT

* NOTE: USE SMOOTH ELECTRICAL 90'S IN CONDUITS, NOT PLUMBING 90'S!!

CUSTOMER PREFERENCE OPTIONAL

D-847
**ANCHOR DETAILS & SHIMMING**

**Anchor Bolt Location Dimensions and Details**

1. **Anchor Bolt Details**
   - **Anchor Bolt Location**
   - **Maximum Leveling Shim Thickness**

2. **Representative Tightening Sequence for Anchor Bolts**
   - Tightening from Center of Base Outward

3. **Installation Instructions**
   - 1. Drill the hole perpendicular to the work surface. Do not drill the hole or allow the drill to wobble.
   - 2. Drill the hole larger than the intended engagement of the anchor but not closer than two anchor diameters to the bottom (opposite) surface of the concrete.
   - 3. Clean the hole using compressed air and water. A clean hole is necessary for proper performance.
   - 4. Turn the nut onto the anchor until contact is made with the top of the anchor and the bottom of the washer. Insert anchor into hole.
   - 5. Tap anchor into hole with a 2 1/2 lbs hammer until washer resists. Slightly adjust position.
   - 6. Tighten the nut to its ft-lbs maximum torque and not less than 3 ft-lbs, but not more than 5 turns past the hand tight position. Use an impact wrench for installation of anchors is not recommended.

**Typical Anchor Bolt**

**Anchor Bolts Are Manufactured by**

Mohawk Resources Ltd.

**Catalog Number**

- 5440
- 5442
- 5410

**Always Wear Safety Glasses and Follow the Drill Manufacturer's Safety Instructions. Use Only Solid Carbon-Tipped Drill Bits Meeting ANSI B2.12.15 Diameter Standards.**
### Lift Data Table

**Lift data**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lift unit data</td>
<td></td>
</tr>
<tr>
<td>Maximum load capacity (lbs)</td>
<td>50,000</td>
</tr>
<tr>
<td>Anchorage</td>
<td></td>
</tr>
<tr>
<td>Anchor bolt diameter (in.)</td>
<td>3/4&quot;</td>
</tr>
<tr>
<td>Total number of anchor bolts</td>
<td>50</td>
</tr>
<tr>
<td>Bolt pattern</td>
<td>SEE ANCHOR DETAILS</td>
</tr>
<tr>
<td>Anchor bolt setting torque</td>
<td>N/A - SEE ANCHOR DETAILS</td>
</tr>
<tr>
<td>Minimum embedment length (in.)</td>
<td>5.00</td>
</tr>
<tr>
<td>Minimum concrete thickness (in.)</td>
<td>6&quot; ON GRADE (SEE NOTE 23)</td>
</tr>
<tr>
<td>Hydraulic</td>
<td></td>
</tr>
<tr>
<td>Reservoir capacity (gal)</td>
<td>30 TOTAL</td>
</tr>
<tr>
<td>Oil type</td>
<td>DXVII 3 (ATF)</td>
</tr>
<tr>
<td>Electrical</td>
<td></td>
</tr>
<tr>
<td>Motor horsepower</td>
<td>20</td>
</tr>
<tr>
<td>208/230 V 3 PH</td>
<td>60 AMPERE</td>
</tr>
<tr>
<td>or 460 V 3 PH</td>
<td>50 AMPERE</td>
</tr>
<tr>
<td>Control circuit transformer 1000 VA</td>
<td>7.69 AMP</td>
</tr>
<tr>
<td>24 VDC power supply</td>
<td>4.8 AMP</td>
</tr>
<tr>
<td>Light fixtures (optional lighting kit)</td>
<td>8 QTY</td>
</tr>
<tr>
<td>Shop air</td>
<td></td>
</tr>
<tr>
<td>Air pressure (psi)</td>
<td>85 to 100</td>
</tr>
<tr>
<td>Air volume - lift (cfm)</td>
<td>5</td>
</tr>
<tr>
<td>Air volume - optional rolling jack (cfm)</td>
<td>25 EACH</td>
</tr>
<tr>
<td>Air volume - optional shop air kit (cfm)</td>
<td>20</td>
</tr>
<tr>
<td>Air volume - total req'd capacity (cfm)</td>
<td>30 MINIMUM</td>
</tr>
<tr>
<td>Air volume - total req'd capacity (cfm)</td>
<td>20 SUGGESTED</td>
</tr>
</tbody>
</table>

### Required Material List

**Materials shown on this list shall be used without substitution unless specifically approved in writing by Mohawk Resources, Ltd.**

<table>
<thead>
<tr>
<th>Item</th>
<th>QTY</th>
<th>Description</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>1</td>
<td>Lockout/tagout disconnect box</td>
<td>PER LOCAL ELECTRICAL CODES</td>
</tr>
<tr>
<td>11*</td>
<td>AR</td>
<td>Leveling Shims</td>
<td>1/16&quot;, 1/8&quot;, 1/4&quot; THICK</td>
</tr>
<tr>
<td>10*</td>
<td>AR</td>
<td>3/4&quot; x 5&quot; Anchor Bolt Assembly</td>
<td>WE-J-T - WEDGE ANCHORS</td>
</tr>
<tr>
<td>9</td>
<td>4</td>
<td>1&quot; Seal Barrier</td>
<td>CROUSE - HINDS EY23</td>
</tr>
<tr>
<td>8</td>
<td>4</td>
<td>1-3/4&quot; Reducer Bushing</td>
<td>CROUSE - HINDS RE23</td>
</tr>
<tr>
<td>7</td>
<td>4</td>
<td>1&quot; SCH 40-90 deg Elbow</td>
<td>CROUSE - HINDS EL3</td>
</tr>
<tr>
<td>6*</td>
<td>1</td>
<td>Junction Box (in console)</td>
<td>STEEL</td>
</tr>
<tr>
<td>5</td>
<td>AR</td>
<td>Sealite Flexible Conduit</td>
<td>METAL CORE</td>
</tr>
<tr>
<td>4</td>
<td>AR</td>
<td>1&quot; Rigid conduit</td>
<td>STEEL</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td>Filter/Lubricator/Regulator, Dryer Shutoff</td>
<td>STEEL or PVC</td>
</tr>
<tr>
<td>2</td>
<td>AR</td>
<td>4&quot; SCH 40 STREET ELBOW</td>
<td>STEEL or PVC</td>
</tr>
<tr>
<td>1</td>
<td>AR</td>
<td>4&quot; SCH 40 PIPE</td>
<td>STEEL or PVC</td>
</tr>
</tbody>
</table>

* Items supplied by Mohawk with the lift unit
GENERAL NOTES
NOTE 1. IF THE EXISTING CONCRETE FLOOR HAS A DOCUMENTED MINIMUM STRENGTH OF NOT LESS THAN F\textsubscript{c} = 4,000 psi and is at least 6 inches thick, then the floor system may be used without alterations, except for the area immediately below the lift unit, which is designed for vehicles of the same weight as the lift unit. The maximum capacity will be adequate for installation of the lift unit. Lift unit contact pressures will be equal to or less than the wheel contact pressures.

NOTE 2. IF THE CONCRETE FLOOR SYSTEM DOES NOT MEET MINIMUM SPECIFICATIONS OF NOTE 1 ABOVE, THEN A NEW CONCRETE FLOOR SHALL BE SUPPLIED AND INSTALLED.

NOTE 3. IF THE STRENGTH OF AN EXISTING FLOOR SYSTEM IS UNKNOWN OR NOT DOCUMENTED, ITS STRENGTH SHOULD BE DETERMINED. Core samples should be taken to determine the strength of the floor.

NOTE 4. ANY NEW CONCRETE USED FOR REPAIRS OR ALTERATIONS TO THE FLOOR SYSTEM SHALL BE AT A MINIMUM F\textsubscript{c}=4,000 psi, with heavy aggregate. For any new concrete, it shall reach its full 28-day F\textsubscript{c} strength before the lift and the anchor bolts are installed.

NOTE 5. ANY NEW CONCRETE USED FOR FLOOR REPAIRS OR ALTERATIONS SHALL HAVE REINFORCING AS REQUIRED FOR THE SOIL CONDITIONS AND VEHICLE LOAD. The reinforcing shall be determined by others. At a minimum, two layers of 6" x 6" reinforcing wire fabric shall be used for any floor repairs. Also, floor repairs shall be dowelled into the existing floor system to prevent differential settlement.

NOTE 6. FOR INSTALLATION IN EXISTING STRUCTURES, AREAS OF THE FLOOR WHICH ARE CUT AND REMOVED FOR SERVICE CONDUIT INSTALLATIONS SHALL BE REPAIRED WITH CONCRETE HAVING MINIMUM STRENGTH OF NOT LESS THAN F\textsubscript{c}=4,000 psi, and is at least 6 inches thick in the areas around and to the rear of the service legs.

NOTE 7. FOR NEW CONSTRUCTION, THE AREAS OF THE FLOOR ALONG THE LIFT RUNWAYS SHOULD BE DEEPERED TO 9 INCHES FOR OTHER CONDUIT INSTALLATION. Also, PROVIDE A MINIMUM 9 INCH THICKNESS AROUND TO THE REAR OF THE SERVICE LEGS.

NOTE 8. FOR NEW CONSTRUCTION WHERE IN FLOOR RADIANT HEATING TUBES ARE USED, THESE TUBES MAY BE PLACED UNDER THE LIFT AREA PROVIDED THE TUBES ARE AS FAR AWAY AS POSSIBLE. A MINIMUM 6 INCHES CLEARANCE SHOULD BE PROVIDED FOR ANCHOR BOLTS AND DRILLING ALLOTMENT. The installer must be notified that radiant tubes are used such that care is taken not to over drill the depth of the anchors.

NOTE 9. THE SUPPORT PLATES OF THE CONTINUOUS BASE SHALL NOT BE INSTALLED OVER A CONSTRUCTION JOINT OF THE FLOOR SYSTEM. THE SUPPORT BASE PLATES SHALL NOT BE PLACED NEARER THAN 10 INCHES TO A CONSTRUCTION JOINT OR PIPE EDGE OF THE FLOOR SLAB.

NOTE 10. A MAXIMUM OF ONE INCH ANCHOR BOLT SHIM THICKNESS IS PERMITTED. INDIVIDUAL ANCHOR BOLT SHIMs ARE AVAILABLE IN A RANGE OF THICKNESSES.

NOTE 11. WHERE MORE THAN ONE INCH OF SHIM LEVELING IS REQUIRED, FULL SUPPORT PLATE CONTACT SHIMS ARE AVAILABLE AT ADDITIONAL COST. The FULL CONTACT SHIM PLATES SHALL THEN BE ACCURATELY LEVELED USING INDIVIDUAL ANCHOR BOLT SHIMS.

NOTE 12. WE-JET FASTENING SYSTEMS, AT WEDGE ANCHORS PROVIDED WITH THE LIFT FOR ANCHORING THE LIFT UNIT TO THE FLOOR SYSTEM. THE NUMBER AND SIZE OF ANCHOR BOLTS SPECIFIED IN THE DRAWING MUST BE USED TO ATTACH THE LIFT UNIT. ANCHOR BOLTS OF FULL LENGTH MUST BE USED IN ALL LOCATIONS PROVIDED ON THE BASE OF THE LIFT UNIT.

NOTE 13. EXCEPT AS DESCRIBED IN NOTE 7, NO EMBEDDED PLUMBING, TUBES, CONDUITS OR OTHER ITEMS, EXCEPT THE LIFT UNIT SERVICE LEG CONDUITS SHALL BE CLOSER THAN 16 INCHES FROM ANY ANCHOR BOLT. Also, the SERVICE LEG CONDUITS SHALL BE INSTALLED ACCURATELY IN THE LOCATIONS SHOWN IN THE PLAN AND DETAIL VIEWS TO MINIMIZE THE EFFECT ON THE ANCHORAGE.

NOTE 14. NO ANCHOR BOLT SHALL BE INSTALLED CLOSER THAN 10 INCHES FROM ANY FREE EDGE OR FLOOR JOINT.

NOTE 15. PROVIDE TWO, 4 INCH SCH 40 PVC PIPE AS A HYDRAULIC-PNEUMATIC SERVICE SUPPLY CONDUIT RUNNING FROM THE POWER UNIT TO EACH SERVICE LEG.

NOTE 16. PROVIDE A, 1 INCH SCH 40 STEEL CONDUIT AS ELECTRICAL SERVICE SUPPLY RUNNING FROM THE POWER UNIT TO THE SERVICE LEGS. THESE CONDUITS SHALL BE INSTALLED AS SHOWN ON THE SECTION VIEWS AND MUST BE INSTALLED IN ACCORDANCE TO APPLICABLE ELECTRICAL CODES.

NOTE 17. PROVIDE TEMPORARY CAPS FOR ALL CONDUITS AND EMBOSSED PIPES. IT IS RECOMMENDED TO LEAVE FULL ROPES IN CONDUITS FOR EASE OF LIFT INSTALLATION.

NOTE 18. THE CONTROL CONSOLE MUST BE LOCATED IN THE VICINITY OF THE LIFT. IT SHOULD BE PLACED FAR ENOUGH AWAY FROM THE LIFT TO ALLOW FOR ACTIVITIES AROUND THE LIFT. THE ENCLOSURE SHADES THE CONSOLE IN A STANDARD POSITION. THE CONTROL CONSOLE MAY BE LOCATED ON EITHER SIDE AND ANYWHERE ALONG THE LENGTH OF THE ENCLOSURE. THE ENCLOSURE DRAWINGS MAY REQUIRE LONGER CABLES, HOSES, CONDUIT, ETC. ADDITIONAL EXPENSE TO THE PURCHASER.

NOTE 19. THE LIFT UNIT requires A HIGH VOLTAGE POWER SOURCE. A LOCKOUT/TAGOUT ELECTRICAL DISCONNECT BOX must be provided for the power source. The DISCONNECT BOX must be installed according to applicable electrical codes. THIS ELECTRICAL DISCONNECT is TO BE PROVIDED by OTHERS.

NOTE 20. PROVIDE ONE, 1 INCH SCH 40 RIGID STEEL CONDUIT AS ELECTRICAL SERVICE SUPPLY RUNNING FROM THE BUILDING POWER SOURCE TO THE CONTROL CONSOLE. THIS CONDUIT is SHOWN UNDERGROUND, ALTERNATIVELY IT may be BURIED IN THE CONTROL PANEL OVERHEAD. PROVIDE A LOCKOUT/TAGOUT ELECTRICAL DISCONNECT BOX WITHIN SIGHT AND AS CLOSE TO THE CONTROL CONSOLE AS is PRACTICAL. THIS ELECTRICAL SERVICE SUPPLY CONDUIT and DISCONNECT BOX must be installed according to local ELECTRICAL CODE REQUIREMENTS.

NOTE 21. PROVIDE ONE, 1 INCH SCH 40 RIGID STEEL CONDUIT AS A COMPRESSED AIR SUPPLY. THIS CONDUIT is SHOWN UNDERGROUND, ALTERNATIVELY IT may be BRING TO THE CONTROL PANEL OVERHEAD DEPENDING ON CUSTOMER PREFERENCE. IF BRING OVERHEAD, PROVIDE FLEX CONDUIT CONNECTING THE TERMINAL END of the CONDUIT to THE CONTROL CONSOLE.

NOTE 22. THE LIFT UNIT requires CLEAN DRY COMPRESSED AIR at 80 psi AND VOLUME SHOWN on THE LIFT UNIT DATA TABLE. A FILTER/LUBRICATOR/REGULATOR is SUPPLIED with the LIFT UNIT FOR THE LOCKING SYSTEM ONLY. A FILTER/LUBRICATOR/REGULATOR, AIR DRYER and SHUTOFF VALVE MUST BE PROVIDED for the LIFT UNIT TO OPERATE THE OPTIONAL ACCESSORIES. THE REQUIRED VOLUME of AIR shown the LIFT UNIT DATA TABLE Recognizes that not more than one auxiliary AIR Consumer will be used SIMULTANEOUSLY.

NOTE 23. ALL FLOOR REQUIREMENTS are BASED ON a CONCRETE SLAB that is ON GRADE (SUPPORTED BY SOIL). ANY OTHER TYPE OF INSTALLATION INVOLVING A SLAB NOT ON GRADE (IE-SLAB SUPPORTED BY PYLONS, SECONd STORY SLAB, ETC.) must be REVIEWED and ANALYZED for SUITABILITY by the BUILDING ARCHITECT, at the EXPENSE of OTHERS.