SURFACE MOUNTED CONTINUOUS BASE INSTALLATION

This configuration is most often used for fleet maintenance, repair and service applications.

The lift unit translates to the rear approximately 36 1/8" during the vertical articulation.

100-48-SURFACE
STANDARD CONSOLE LOCATION LAYOUT
SEE NOTE 18 IN REGARDS TO ALTERNATE LOCATIONS

100-48-SURFACE

C-SIZE

NOTICE OF CONFIDENTIAL INFORMATION

INFORMATION CONTAINED HEREIN IS CONFIDENTIAL AND PROPERTY OF MOHAWK RESOURCES LTD. REPRODUCTION OR DISCLOSURE IS FOR USE LIMIT IN GENERAL DUD ordination. THE INFORMATION SHALL NOT BE USED OR DISCLOSED TO THE RECIPIENT FOR ANY OTHER PURPOSES WHATSOEVER.

NOTES:
1. REMOVE ALL SHARP CORNERS & EDGES
2. UNLESS OTHERWISE SPECIFIED, SURFACE FINISH TO BE 125 RMS
3. WELDING MEDIUM SHALL CONFORM TO AWS SPECIFICATIONS TO E-70XX ELECTRODES OR E-7113 CODE 5.3 FLD X CORE WIRE ONLY.

TOLERANCES:
- .005
- .010
- .015
- .020
- .025

FILE NAME:
P-3300-G-000

NEXT ASSEMBLY

DRAWING NUMBER:
P-3300-G-001

MOHAWK RESOURCES LTD.
CONTROL CONSOLE & STUB-UP DETAILS

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!!

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

D-size
ANCHOR DETAILS & SHIMMING

INSTALLATION INSTRUCTIONS

1. DRILL THE HOLE PERPENDICULAR TO THE WORK SURFACE. TO ASSURE FULL HOLDING POWER, DO NOT LEAVE THE HOLE OR ALLOW THE DRILL TO Wobble. 

2. DRILL THE HOLE DEEPER THAN THE INTENDED EMERGENT 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 A NYLON BRUSH. A CLEAN HOLE IS NECESSARY FOR PROPER PERFORMANCE.


5. TAP ANCHOR INTO HOLE WITH A 2 1/2 IN HAMMER UNTIL WASHER RESTS SOLELY AGAINST FUSTURE.

6. TIGHTEN THE NUT TO 175 FT-LBS MAXIMUM TORQUE AND NOT LESS THAN 5 FULL TURNS, BUT NOT MORE THAN 5 TURNS FROM THE HAND TIGHT POSITION. USE OF AN IMPACT WRENCH FOR INSTALLATION OF ANCHORS IS NOT RECOMMENDED.

REPRESENTATIVE TIGHTENING SEQUENCE FOR ANCHOR BOLTS

TIGHTENING FROM CENTER OF BASE OUTWARD

APPROVED ANCHOR BOLTS PROVIDED BY MOHAWK LIFT

ANCHOR BOLTS ARE MANUFACTURED BY

WEI-HTE FASTENING SYSTEMS
3413 E 13TH PLACE
TULSA, OKLAHOMA 74104

PHONE 918-746-7444
OR 800-541-1294
WEB SITE WWW.WEIT.com

ANCHORS SPECIFIED ARE: "THE ORIGINAL WEI-17" EXPANSION ANCHORS, 3/4 DIA

CATALOG NUMBER 6" 8" 10"
2480 2485 2485

NO OTHER ANCHOR BOLT SUBSTITUTIONS ARE PERMITTED WITHOUT WRITTEN APPROVAL FROM MOHAWK RESOURCES, LTD, UNDER CERTAIN CIRCUMSTANCES EPOXY GRAINED THREAD ROID ANCHORAGE MAY BE USED BUT ANY USE OF SUCH REQUIRES WRITTEN APPROVAL OF MOHAWK RESOURCES, LTD. ANY OTHER UNAPPROVED ANCHOR BOLT PRODUCT MAY NOT HAVE THE DOCUMENTED STRENGTH TO MEET THE CERTIFICATION REQUIREMENTS OF THE AUTOMOTIVE LIFT INSTITUTE AND MAY AFFECT THE CERTIFICATION OF THE INSTALLATION.

NOTICE OF CONFIDENTIAL INFORMATION

NOTES
1. AVOID ALL DAMP CONCRETE & CEMENT.
2. AVOID ANY SPECIFIED SURFACE.
3. WELDING MEASURED TO AXLE SPECIFICATIONS TO C-4500 ELECTRICAL OR C-4950 STEEL 8.9 A.F.C. WORK ONLY.

SCALE DRAWING
ANCHOR DETAILS & SHIMMING
MEMORIAL DATE OF P-0106-001
ARCHITECT P-010-004
ARCHITECT P-010-004
SCALE 4/12
PREPARED 4/10
NEXT ISSUED
MANUFACTURER NUMBER P-0106-001
MOHAWK RESOURCES LTD.
### Lift Data Table

**Lift Unit Data**

- **Maximum Load Capacity (LBS)**: 100,000
- **Anchor Bolt Diameter (IN)**: 5/8"
- **Total Number of Anchor Bolts**: 84
- **Bolt Pattern**: See Anchor Details
- **Anchor Bolt Setting Torque**: N/A - See Anchor Details
- **Minimum Embedment Length (IN)**: 3.00
- **Minimum Concrete Thickness (IN)**: 6" on grade (see note 23)
- **Hydraulic Reservoir Capacity (GAL)**: 30 total
- **Oil Type**: Dexron III (ATF)
- **Electrical Motor Horsepower**: 20
- **208/240 V, 3 PH**: 60 AMPERE
- **or 460 V, 3 PH**: 30 AMPERE
- **Control Circuit Transformer 1000 VA**: 7.69 AMP
- **24V DC Power Supply**: 4.9 AMP
- **Light Fixtures (optional lighting kit) QTY**: 8
- **Shop Air Pressure (PSI)**: 85 to 100
- **Air Volume - Lift (CFM) (Locks)**: 5
- **Air Volume - Optional Rolling Jack (CFM)**: 25 each
- **Air Volume - Optional Shop Air Kit (CFM)**: 20
- **Air Volume - Total Req'D Capacity (CFM)**: 30 minimum
- **Air Volume - Total Req'D Capacity (CFM)**: 50 suggested

### 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>QTY</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>Lockout/Tagout Disconnect Box</td>
</tr>
<tr>
<td>1</td>
<td>Local Electrical Codes</td>
</tr>
<tr>
<td>11*</td>
<td>AR Leveling Shims 1/16&quot;, 1/8&quot;, 1/4&quot; Thick</td>
</tr>
<tr>
<td>10*</td>
<td>4B 3/4&quot; x 5&quot; Anchor Bolt Assembly</td>
</tr>
<tr>
<td>9</td>
<td>4 1&quot; Seal Barrier Crouse-Hinds EYS3</td>
</tr>
<tr>
<td>8</td>
<td>4 1-3/4&quot; Reducer Bushing Crouse-Hinds RE52</td>
</tr>
<tr>
<td>7</td>
<td>4 1&quot; SCH 40-90 Deg Elbow Crouse-Hinds EL3</td>
</tr>
<tr>
<td>6*</td>
<td>1 Junction Box (in Console) Steel</td>
</tr>
<tr>
<td>5</td>
<td>AR Sealite Flexible Conduit Metal Core</td>
</tr>
<tr>
<td>4</td>
<td>AR 1&quot; Rigid Conduit Steel</td>
</tr>
<tr>
<td>3</td>
<td>1 Filter/Lubricator/Regulator, Dryer Shutoff Steel or PVC</td>
</tr>
<tr>
<td>2</td>
<td>AR 4&quot; SCH 40 Street Elbow Steel or PVC</td>
</tr>
<tr>
<td>1</td>
<td>AR 4&quot; SCH 40 Pipe Steel or PVC</td>
</tr>
</tbody>
</table>

* Items supplied by Mohawk with the Lift Unit

**Notice of Confidential Information**

- **NOTICE**: This document contains confidential and proprietary information. It is provided for the purpose of evaluation and should not be disclosed to any third party. Use of this information outside the context of this document is strictly prohibited. Failure to comply with these instructions may result in legal action.

**Scale**: 1/4" = 1'-0"
GENERAL NOTES

NOTE 1
IF THE EXISTING CONCRETE FLOOR HAS A DOCUMENTED MINIMUM STRENGTH OF NOT LESS THAN F'c = 4,000 psi and is at least 6 inches thick, then the floor system may be used without alterations. Generally any floor area which is designed for vehicles of the same weight as the lift unit 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 INSTALLED TO SUPPORT THE LIFT.

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'c=4,000 psi, WITH HEAVY AGGREGATE, FOR ANY NEW CONCRETE IT SHALL REACH ITS FULL 28 DAY F'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 TO MEET THE REQUIREMENTS AND LIFE EXPECTANCY OF THE NEW FLOORING. FABRIC SHALL BE USED FOR ANY FLOOR REPAIRS. ALSO, FLOOR REPAIRS SHALL BE DOWELED 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'c=4,000 psi, AND IS AT LEAST 9 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 DEEPENED TO 9 INCHES FOR EACH ANCHOR INSTALLATION. ALSO, PROVIDE A MINIMUM 9 INCH THICKNESS AROUND AND TO THE REAR OF THE SERVICE LEGS.

NOTE 8
FOR NEW CONSTRUCTION WHERE IN FLOOR RADIAN T CIRCUMFERENCE ARE USED, THESE TUBES MAY BE PLACED UNDER THE LIFT AREA PROVIDED THE THE SLAB IS CAST SUITABLY THICK. A MINIMUM OF 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 FREE EDGE OF THE FLOOR SLAB.

NOTE 10
A MAXIMUM OF ONE INCH ANCHOR BOLT SHIM THICKNESS IS PERMITTED. INDIVIDUAL ANCHOR BOLT SHIM 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
WEII-TIGHTENING SYSTEMS, AT WEDGE ANCHORS ARE PROVIDED WITH THE LIFT FOR ANCHORING THE LIFT UNIT TO THE FLOOR SYSTEM. THE NUMBER AND THE 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. 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 1, 1 INCH SCH 40 STEEL CONDUIT AS ELECTRICAL SERVICE SUPPLY RUNNING FROM THE POWER UNIT TO THE SERVICE LEG. THESE CONDUITS SHALL BE INSTALLED AS SHOWN ON THE SECTION VIEWS AND MUST BE INSTALLED ACCORDING TO APPLICABLE ELECTRICAL CODES.

NOTE 17
PROVIDE TEMPORARY CAPS FOR ALL CONDUITS AND EMBEDDED PIPES. IT IS RECOMMENDED TO LEAVE PULL 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 ENCLOSED DRAWINGS SHOW THE CONSOLE IN A STANDARD POSITION. THE CONTROL CONSOLE MAY BE LOCATED ON EITHER SIDE AND ANYWHERE ALONG THE LENGTH OF THE LIFT, BUT ANY SECTIONS FROM ANY OTHER LOCATION THE LIFT, BUT ANY SECTIONS FROM ANY OTHER LOCATION THE LIFT.

NOTE 19
THE LIFT UNIT REQUIRES A HIGH VOLTAGE POWER SOURCE, A LOCKOUT/TAGOUT ELECTRICAL 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 METAL CONDUIT AS ELECTRICAL SERVICE SUPPLY RUNNING FROM THE BUILDING POWER SOURCE TO THE CONTROL CONSOLE. THIS CONDUIT IS SHOWN UNDERGROUND. ALTERNATIVELY IT MAY BE OVERHEAD DEPENDING ON CUSTOMER PREFERENCE. PROVIDE A LOCKOUT/TAGOUT ELECTRICAL DISCONNECT BOX WITHIN 5 FEET AND DEFINED TO THE CONTROL CONSOLE AS IS PRACTICAL. THIS ELECTRICAL SUPPLY CONDUIT AND DISCONNECT BOX MUST BE INSTALLED ACCORDING TO LOCAL ELECTRICAL CODE REQUIREMENTS.

NOTE 21
PROVIDE ONE, 1 INCH SCH 40 RIGID METAL CONDUIT AS A COMPRESSED AIR SUPPLY, THIS CONDUIT IS SHOWN UNDERGROUND, ALTERNATIVELY IT MAY BE BROUGHT TO THE CONTROL PANEL OVERHEAD DEPENDING ON CUSTOMER PREFERENCE. 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 THE PRESSURE 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 IN 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 (E.g., SLAB SUPPORTED BY PYLONS, SECOND STORY SLAB, ETC.) MUST BE REVIEWED & ANALYZED FOR SUITABILITY BY THE BUILDING ARCHITECT, AT THE EXPENSE OF OTHERS.