GRATING IS RECOMMENDED TO BE USED TO COVER THE ROLLING JACK POCKET DURING USE OF THE LIFT UNIT. THIS GRATING IS MANUALLY LOCATED FOR EACH USE OF THE LIFT, IN PART TO BE PROVIDED BY OTHERS.

FLUSH MOUNTED INSTALLATION WITH MANUALLY COVERED ROLLING JACK LOWERING POCKET

THIS CONFIGURATION IS MOST OFTEN USED FOR FLEET MAINTENANCE APPLICATIONS THAT INVOLVE A MODERATE RATIO OF TIRE, WHEEL OR BRAKE SERVICES.

THE FRONT OF THE LIFT UNIT IS PLACED TO THE FRONT OF THE LIFT TRENCH. FOR THIS INSTALLATION, THE LIFT UNIT WILL TRANSLATE TO THE REAR AS IT ARTICULATES UPWARD, ALLOWING APPROXIMATELY 60 INCHES AT THE REAR OF THE LIFT FOR THIS MOTION.
# Lift Data Table

**Lift Data Table**

MOHAWK RESOURCES, LTD
PARALELLOGRAM LIFT MODEL
50-35-FLUSH

<table>
<thead>
<tr>
<th>LIFT UNIT DATA</th>
<th>--</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Load Capacity (LBS)</td>
<td>50,000</td>
</tr>
<tr>
<td>Anchor</td>
<td>--</td>
</tr>
<tr>
<td><strong>Anchor Bolt Diameter (IN.)</strong></td>
<td>3/4&quot;</td>
</tr>
<tr>
<td><strong>Total Number of Anchor Bolts</strong></td>
<td>56</td>
</tr>
<tr>
<td><strong>Bolt Pattern</strong></td>
<td>SEE ANCHOR DETAILS</td>
</tr>
<tr>
<td><strong>Anchor Bolt Setting Torque</strong></td>
<td>N/A -- SEE ANCHOR DETAILS</td>
</tr>
<tr>
<td><strong>Minimum Embedment Length (IN.)</strong></td>
<td>3.00</td>
</tr>
<tr>
<td><strong>Minimum Concrete Thickness (IN.)</strong></td>
<td>SEE P/W DRAWINGS</td>
</tr>
</tbody>
</table>

**Hydraulic**

**Reservoir Capacity (GAL)**

| **Total** | 30 |
| **Oil Type** | Dexron II (ATF) |

**Electrical**

| **Motor Horsepower** | 20 |
| **Motor 208/230 V 3 PH** | 60 AMPERE |
| **Motor 460 V 3 PH** | 30 AMPERE |
| **Control Circuit Transformer 1000 VA** | 7.69 AMP |
| **24 VDC Power Supply** | 4.8 AMP |
| **Light Fixtures (Optional Lighting Kit)** | QTY 8 |
| **Shop Air** | -- |
| **Air Pressure (PSI)** | 85 to 100 |
| **Air Volume - Lift (CFM/Depress)** | 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 |

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# 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>1/4</td>
<td>AR</td>
<td>Leveling Shims</td>
<td>1/8&quot;, 1/8&quot;, 1/4&quot; thick</td>
</tr>
<tr>
<td>10</td>
<td>AR</td>
<td>Wedge Anchors</td>
<td>3/4 x 3</td>
</tr>
<tr>
<td>9</td>
<td>4</td>
<td>1&quot; Seal Barrier</td>
<td>CROUSE - HINDS LTS3</td>
</tr>
<tr>
<td>8</td>
<td>4</td>
<td>1-3/4&quot; Reducer Bushing</td>
<td>CROUSE - HINDS RLS2</td>
</tr>
<tr>
<td>7</td>
<td>1</td>
<td>1&quot; SCH 40-90 ESD 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>Sealtite 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></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.
TOP VIEW OF CONSOLE FRAME

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

CONDUIT SIZES & APPLICATION:
A: 1" (25.4) (MIN) SCH 40 STEEL PIPE – INCOMING POWER CUSTOMER
B: 1" (25.4) (MIN) SCH 40 STEEL PIPE – INCOMING AIRLINE PREFERENCE
C,D: 4" (101) SCH 40 PVC PIPE – HYDRAULIC & AIR TO LIFT OPTIONAL
E,F,G,H: 1" (25.4) (MIN) SCH 40 STEEL PIPE – ELECTRICAL TO LIFT

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

CONTROL CONSOLE & STUB-UP DETAILS
ANIMAL DETAILS & SHIMMING

UNIT = INCN (mm) = POUND (kg)

3/8" KEY (9.5)
1/2" PLATE THICKNESS
TOP OF FLOOR ELEVATION

LEVELING SHIM
ANCHOR BOLT

CONCRETE THICKNESS
SEE GENERAL NOTES

ANCHOR BOLT LOCATION DIMENSIONS AND DETAILS

1" (25.4) MAXIMUM LEVELING SHIM THICKNESS
SEE NOTE 10

20.00 (500)
1.50 (38)
5.50 (140)
1.50 (38)
7.25 (184)
11.00 (290)
7.25 (184)
30.00 (760)

1" (25.4) MAXIMUM LEVELING SHIM THICKNESS
SEE NOTE 10

ANCHOR BOLT DETAIL

PLACE LEVELING SHIMS IN A STRAIGHT AND ORIENTED MANNER AT EACH ANCHOR BOLT. USE TWO SHIMS TO FULLY TIGHTEN EACH LOCATION.

3.28 (83)
1.14 R (29)
.37 R TYP (9.5)

LEVELING SHIM DETAIL

LEVELING SHIM AVAILABLE IN A RANGE OF THICKNESSES FROM 1/16" (1.6), 1/8" (3.2), OR 1/4" (6.3)

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-JIT FASTENING SYSTEMS
2415 EAST 13TH PLACE
TULSA, OKLAHOMA 74104

PHONE 918-744-7444
OR 800-543-1264

WEB SITE: WWW.WEIJIT.COM

ANCHORS SPECIFIED ARE "THE ORIGINAL WEI-JIT EXPANSION ANCHORS, 3/4" (19MM) DIAMETER"

CATALOG NUMBER
3480
3482
3410
LENGTH
6" (152)
8 1/2" (216)
10" (254)

INSTALLATION INSTRUCTIONS
1. DRILL THE HOLE PERTICULAR TO THE WORK SURFACE TO OBTAIN FULL HOLDING POWER. DO NOT REACH THE HOLE OR ALLOW THE DRILL TO Wobble.
2. DRILL THE HOLE DEEPER THAN THE INTENDED ENTRANCE 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.
4. TURN THE NUT UNTIL CONTACT IS MADE WITH THE TOP OF THE SPEARE AND THE BOTTOM OF THE WASHER. INSERT ANCHOR INTO HOLE.
5. TAP ANCHOR INTO HOLE WITH A 2 1/2" LB. (114 G) HAMMER UNTIL WASHER RESTS SOLIDLY AGAINST FLATWARE.
6. TIGHTEN THE NUT TO 80 IT-LB (39 N-M) MAXIMUM TORQUE AND NOT LESS THAN A FULL TURN, BUT NOT MORE THAN 2 1/2" LB. (114 G) TURNS. USE OF AN IMPACT WRENCH FOR INSTALLATION OF ANCHORS IS NOT RECOMMENDED.

ALWAYS WEAR SAFETY GLASSES. FOLLOW THE DRILL MANUFACTURER'S SAFETY INSTRUCTIONS. USE ONLY SOLID CARBIDE-TIPPED DRILL BITS MEETING AWS B7.27.15 DIAMETER STANDARDS.

PLACEMENT OF LEVELING SHIM DETAIL

LEVELING SHIM DETAIL

MOHAWK RESOURCES LTD.
WARNING: COMPLETE ALL REMOVAL OPERATIONS BEFORE PLACING ANY NEW BOLTS OR SCREWS INTO EXISTING HOLES. BOLTS OR SCREWS MAY NOT BE REMOVED FROM EXISTING HOLES.
GENERAL NOTES

NOTE 1 CONCRETE USED FOR THE BASE AND THE SIDE WALLS OF EACH TRENCH AND ANY OTHER NEW CONCRETE WHICH IS USED FOR THIS INSTALLATION MAY HAVE A MINIMUM STRENGTH OF F'_c=2,500 psi. A STRENGTH OF F'_c=4,000 psi IS RECOMMENDED WHERE POSSIBLE.

NOTE 2 CONCRETE USED FOR THE BASE AND SIDEWALLS OF THE TRENCH AREAS SHALL REACH ITS FULL 28 DAY F'_c STRENGTH BEFORE THE LIFT AND THE ANCHOR BOLTS ARE INSTALLED.

NOTE 3 CONCRETE REINFORCEMENT SIZES AND REINFORCEMENT SPECIFICATION FOR THE BASE OF EACH TRENCH SHALL BE DETERMINED BY AN ENGINEER OR ARCHITECT (AT THE EXPENSE OF THE PURCHASER) AND SHOULD BE DETERMINED CONSIDERING THE LOCAL SOIL CONDITIONS AND THE APPLIED LOADING. AS A MINIMUM, GRADE 60 REINFORCEMENT OF THE SIZE AND SPACING SHOWN ON THE DRAWINGS SHALL BE USED.

NOTE 4 CONCRETE REINFORCEMENT SPECIFICATIONS FOR THE FLOOR AREA AROUND THE TRENCHES SHALL BE DETERMINED BY AN ENGINEER OR ARCHITECT (AT THE EXPENSE OF THE PURCHASER) AND SHOULD BE DETERMINED CONSIDERING THE LOCAL SOIL CONDITIONS AND THE APPLIED LOADING. AS A MINIMUM, TWO LAYERS OF GRADE 60, 6X6-10/10 WELDED WIRE FABRIC SHOULD BE USED IN THE VICINITY OF THE LIFT UNIT AND BETWEEN THE TRENCHES.

NOTE 5 THE REINFORCING STEEL USED IN THE BASE OF THE TRENCHES SHALL BE INSTALLED SO AS TO NOT INTERFERE WITH THE ANCHOR BOLTS USED TO ATTACH THE LIFT UNIT.

NOTE 6 WE-JIT FASTENING SYSTEMS, AT WEDGE ANCHORS ARE 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 7 CARE MUST BE TAKEN TO ENSURE THAT THE SIDE WALLS OF THE TRENCH ARE PARALLEL AND STRAIGHT. APPROXIMATELY 1 1/2 OF CLEARANCE IS PROVIDED ALONG THE SIDES OF THE RUNWAYS.

NOTE 8 SLOPE THE BOTTOM OF THE TRENCH 1/16 INCH PER FOOT TOWARD THE DRAINAGE CHANNEL. SLOPE THE DRAINAGE CHANNEL 1/16 INCH PER FOOT TOWARD THE CATCH BASIN.

NOTE 9 CARE MUST BE TAKEN TO ENSURE THAT THE BASE OF THE TRENCH AREAS ARE AT THE PROPER ELEVATION. A MAXIMUM OF ONE INCH ADJUSTMENT (SQUEEZING) IS PERMITTED FOR INSTALLATION LEVELING.

NOTE 10 WHERE MORE THAN 3/4 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 LEVELLED USING INDIVIDUAL ANCHOR BOLT SHIMS. INDIVIDUAL ANCHOR BOLT SHIMS ARE AVAILABLE IN A RANGE OF THICKNESSES FROM 1/16 INCH TO 1/4 INCH.

NOTE 11 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 12 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 13 PROVIDE 4, 1 INCH SCH 40 STEEL CONDUITS 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 ACCORDING TO APPLICABLE ELECTRICAL CODES.

NOTE 14 ONE 4 INCH SCH 40 PVC DRAIN PIPE SHOULD BE PROVIDED TO CARRY DRAINAGE FROM THE CATCH BASINS TO AN OIL-WATER SEPARATOR. THIS PIPE SHOULD SLOPE A MINIMUM OF 1/16 INCH PER FOOT TOWARD THE DESTINATION.

NOTE 15 PROVIDE TEMPORARY CAPS FOR ALL CONDUITS AND EMBEDDED PIPES. IT IS RECOMMENDED TO LEAVE PULL ROPES IN CONDUITS FOR EASE OF LIFT INSTALLATION.

NOTE 16 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 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 DEVIATIONS FROM THE ENCLOSURE DRAWINGS MAY REQUIRE LONGER CABLES, MOSES, CONDUITS, ETC. AT ADDITIONAL EXPENSE TO THE PURCHASER.

NOTE 17 THE LIFT UNIT REQUIRE CLEAN DRY COMPRRESSED 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 DRIER AND SHUT-OFF VALVE MUST BE PROVIDED FOR THE LIFT UNIT TO OPERATE THE OPTIONAL ACCESSORIES. THE REQUIRED VOLUME OF AIR SHOWN ON THE LIFT UNIT DATA TABLE RECOGNIZES THAT MORE THAN ONE AUXILIARY AIR CONSUMER WILL BE USED SIMULTANEOUSLY.

NOTE 18 PROVIDE ONE, 1 INCH SCH 40 RIGID STEEL 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. IF BROUGHT OVERHEAD, PROVIDE FLEX CONDUIT CONNECTING THE TERMINAL END OF THE CONDUIT TO THE CONTROL CONSOLE.

NOTE 19 THE LIFT UNIT REQUIRE A HIGH VOLTAGE POWER SOURCE. A LOCKOUT/TAGOUT ELECTRICAL DISCONNECT BOX MUST BE PROVIDED FOR THE POWER SOURCE. THE LOCKOUT/TAGOUT 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 BROUGHT TO THE CONTROL PANEL OVERHEAD DEPENDING ON CUSTOMER PREFERENCE. PROVIDE A LOCKOUT/TAGOUT ELECTRICAL DISCONNECT BOX WITHIN SIGHT AND AS CLOSE 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 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 (I.E.--SLAB SUPPORTED BY PYLONS, SECOND STORY SLAB, ETC.) MUST BE REVIEWED & ANALYZED FOR SUITABILITY BY THE BUILDING ARCHITECT, AT THE EXPENSE OF OTHERS.

FLUSH LIFTS ONLY

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