

MOHAWK

MADE IN THE USA



PARALLELOGRAM

SURFACE & FLUSH STYLE PARALLELOGRAM VEHICLE LIFT MANUAL

**THANK YOU
FOR SENDING IN YOUR
WARRANTY REGISTRATION
CARD**

**MOHAWK SERVICE
DEPARTMENT**

- INSTALLATION
- OPERATION
- MAINTENANCE
- PARTS



MOHAWK RESOURCES LTD.

65 VROOMAN AVE.

AMSTERDAM, NY 12010

TOLL FREE: 1-800-833-2006

LOCAL: 1-518-842-1431

FAX: 1-518-842-1289

INTERNET: WWW.MOHAWKLIFTS.COM

E-MAIL: SERVICE@MOHAWKLIFTS.COM

Parallelogram-10-24-2007.doc

Rev Date 10/24/2007

Part #601-800-0XX

**READ MANUAL
THOROUGHLY BEFORE
INSTALLING,
OPERATING OR SERVICING
THIS LIFT !!**
**Deliver these instructions to lift
owner/user/employer along with
other instructional materials
furnished with this lift.**

IMPORTANT SAFETY INSTRUCTIONS

When using your garage equipment, basic safety precautions should always be followed, including the following:

1. Read this manual and review all illustrations of this manual thoroughly before attempting to install, operate or maintain this lift.
2. Deliver these operation, inspection, and maintenance instructions to the lift owner/user/employer along with the other instructional materials furnished with this lift.
3. Maintenance on this equipment is to be performed only by trained lift service personnel, and worn or broken parts are to be replaced only with genuine Mohawk brand supplied parts.
4. Care must be taken as burns can occur from touching hot parts.
5. Do not operate equipment with a damaged cord or if the equipment has been dropped or damaged - until it has been examined by a qualified serviceman.
6. Do not let cord or hoses hang over edge of table, bench or counter or come in contact with hot manifolds or moving fan blades.
4. If an extension cord is necessary, a cord with a current rating equal to or more than that of the equipment should be used. Cords rated for less current than the equipment may overheat. Care should be taken to arrange the cord so that it will not be tripped over or pulled.
5. Always unplug equipment from electrical outlet when not in use. Never use the cord to pull the plug from the outlet. Grasp plug and pull to disconnect
6. To reduce the risk of fire, do not operate equipment in the vicinity of open containers of flammable liquids (gasoline). **WARNING: Risk of Explosion:** This equipment has internal arcing and sparking parts which should not be exposed to flammable vapors. This equipment is only suitable for installation in a garage having sufficient air circulation to be considered a non-hazardous location.
7. Adequate ventilation should be provided when working on operating internal combustion engines.
8. Keep hair, loose clothing, fingers, and all parts of body away from moving parts.
9. To reduce the risk of electric shock, do not use on wet surfaces or expose to rain.
10. Use only as described in this manual. Use only manufacturer's (Mohawk) recommended attachments.
11. **ALWAYS WEAR SAFETY GLASSES.** Everyday eyeglasses only have impact resistant lenses, they are NOT safety glasses.

SAVE THESE INSTRUCTIONS Rev (10/22/99)

APPENDAGE:

LIFT ENVIRONMENT:

All standard lifts are designed for indoor usage in a normal garage type environment. Any concerns in applications that expose the lift to additional environmental effects, such as paint booths, wash bays, outdoors, high or low temperatures, etc. must be addressed to our engineering department, where provisions may be made to the lift to accommodate the area of use. Our engineering department must be made aware in advance of these conditions and any additional code requirements that must be met.

Also, the foundation for which this lift must be installed on must comply to the minimum specifications as set forth in this manual. Any drainage slopes in the bay where the lift is to be installed must be directed away from the posts to prevent water accumulation at the post bases.

ACCESSORIES:

All accessories (i.e. Lifting Pads, Height Adapters, Wheel Adapters, Turf Adapters) supplied with this lift are to be used on this lift only. Accessories from other lifts are not acceptable and could result in injury to the user.

If attachments, accessories or configuration modifying components are used on this lift and, if they are not certified for use on this lift, then the certification of this lift shall become null and void. Contact the participant (Mohawk Resources Ltd.) for information pertaining to certified attachments, accessories or configuration modifying components.

LOCKOUT/TAGOUT REQUIREMENTS:

The start switch provided with this unit must not be used as a primary disconnecting means. A separate disconnecting means must be provided in accordance with all applicable codes. It is the responsibility of the owner/user of this unit to provide a proper lockout/tagout device for this unit before or during installation in conformance to ANSI Z244.1 and any local/state/national electrical codes and any OSHA regulations.

JACKING BEAMS:

Loading of the jacking beams or combinations of jacking beams above the rated capacity of the lift itself could result in personal injury to the operator and/or damage to the lift and/or vehicle. The load rating of any jacking beam or combination of jacking beams on this unit must not exceed the rated capacity of the lift.

HAVE A QUESTION?

**Call your local
Mohawk distributor
For parts, service and technical support.**



Please have this unit's model and serial number when calling for service.

Model Number _____

Serial Number _____

OR CONTACT:

MOHAWK RESOURCES LTD.

65 Vrooman Ave.

P.O. Box 110

Amsterdam, NY 12010

Toll Free: 1-800-833-2006

Local: 1-518-842-1431

Fax: 1-518-842-1289

Internet: www.MOHAWKLIFTS.com

E-Mail: Service@MOHAWKLIFTS.com

MOHAWK WARRANTIES
EFFECTIVE DATE: 5/7/2007 *

GENERAL WARRANTY INFORMATION:

MOHAWK'S OBLIGATION UNDER THIS WARRANTY IS LIMITED TO REPAIRING OR REPLACING ANY PART OR PARTS RETURNED TO THIS FACTORY, TRANSPORTATION CHARGES PREPAID, WHICH PROVE UPON INSPECTION TO BE DEFECTIVE AND WHICH HAVE NOT BEEN MISUSED. DAMAGE OR FAILURE TO ANY PART DUE TO FREIGHT DAMAGE OR FAULTY MAINTENANCE IS NOT COVERED UNDER THIS WARRANTY. ALL WARRANTY CLAIMS MUST BE PERFORMED IN ACCORDANCE TO MOHAWK'S WARRANTY PARTS RETURN POLICY (CONTACT MOHAWK'S SERVICE DEPARTMENT FOR MORE INFORMATION). THIS WARRANTY DOES NOT COVER MIS-DIAGNOSING OF UNIT OR PARTS RETURNED THAT ARE NON-DEFECTIVE. THIS WARRANTY DOES NOT COVER ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, LOST REVENUES OR BUSINESS HARM. THIS EQUIPMENT HAS BEEN DESIGNED FOR USE IN NORMAL COMMERCIAL VEHICLE MAINTENANCE APPLICATIONS. A SPECIFIC INDIVIDUAL WARRANTY MUST BE ISSUED FOR UNITS THAT DEVIATE FROM INTENDED USAGE, SUCH AS HIGH CYCLE USAGE IN INDUSTRIAL APPLICATIONS, OR USAGE IN EXTREMELY ABUSIVE ENVIRONMENTS, ETC.. MOHAWK RESERVES THE RIGHT TO DECLINE RESPONSIBILITY WHEN REPAIRS HAVE BEEN MADE OR ATTEMPTED BY OTHERS. THIS WARRANTY DOES NOT COVER DOWNTIME EXPENSES INCURRED WHEN UNIT IS IN REPAIR. THE MODEL NAME AND SERIAL NUMBER OF THE EQUIPMENT MUST BE FURNISHED WITH ALL WARRANTY CLAIMS. THIS WARRANTY STATEMENT CONTAINS THE ENTIRE AGREEMENT BETWEEN MOHAWK RESOURCES LTD. AND THE PURCHASER UNLESS OTHERWISE SPECIFICALLY EXPRESSED IN WRITING. THIS NON-TRANSFERABLE WARRANTY APPLIES TO THE ORIGINAL PURCHASER ONLY. THIS WARRANTY IS APPLICABLE TO UNITS LOCATED ONLY IN THE UNITED STATES OF AMERICA AND CANADA. CONTACT MOHAWK RESOURCES LTD. FOR SPECIFIC WARRANTY PROVISIONS FOR UNITS LOCATED OUTSIDE OF THESE COUNTRIES.

STRUCTURAL COMPONENTS (ALL LIFTS):

ALL STRUCTURAL AND MECHANICAL COMPONENTS OF THIS UNIT ARE GUARANTEED FOR THE BELOW STATED TIME FRAME, SPECIFIC TO MODEL LISTED, FROM THE DATE OF INVOICE, AGAINST DEFECTS IN WORKMANSHIP AND/OR MATERIALS WHEN LIFT IS INSTALLED AND USED ACCORDING TO SPECIFICATIONS.

5-YEAR: MODELS A-7, SYSTEM IA, SYSTEM IA-10, TOMAHAWK-9000, LMF-12, TP-15, TP-16, TP-18, TP-20, TP-26, TP-30, & TL-7.

3-YEAR: MODELS TR-19, TR-25, FL-25, TR-33, TR-35, TR-50, TR-75, TR-110, TR-120, MP-SERIES, RP-SERIES LIFTS.

2-YEAR: MODELS PARALLELOGRAM SERIES LIFTS.

1-YEAR: MODELS HR-6, TD-1000, CT-1000, USL-6000.

POWER UNIT (ALL LIFTS):

ALL POWER UNIT COMPONENTS (MOTOR, PUMP AND RESERVOIR) ARE GUARANTEED FOR TWO YEARS FOR PARTS (ONE YEAR LABOR), FROM THE DATE OF INVOICE, AGAINST DEFECTS IN WORKMANSHIP AND/OR MATERIALS WHEN THE LIFT IS INSTALLED AND USED ACCORDING TO SPECIFICATIONS.

HYDRAULIC CYLINDERS (MODEL SPECIFIC LIFTS):

SEE MOHAWK'S "EXTENDED LIFETIME CYLINDER WARRANTY" FOR SPECIFIC WARRANTY PROVISIONS FOR HYDRAULIC CYLINDERS. THE "EXTENDED LIFETIME CYLINDER WARRANTY" IS APPLICABLE TO THE FOLLOWING MOHAWK LIFTS ONLY: A-7, SYSTEM IA, SYSTEM IA-10, LMF-12, TP-15, TP-18, TP-20, TP-26, TP-30. ALL OTHER MODELS ARE GUARANTEED FOR TWO YEARS PARTS AND ONE YEAR LABOR (EXCEPT HR-6, WHICH IS ONE YEAR PARTS ONLY), FROM THE DATE OF INVOICE, AGAINST DEFECTS IN WORKMANSHIP AND/OR MATERIALS WHEN THE LIFT IS INSTALLED AND USED ACCORDING TO SPECIFICATIONS.

ELECTRICAL COMPONENTS (ALL LIFTS):

ALL ELECTRICAL COMPONENTS (EXCLUDING MOTOR) ARE GUARANTEED FOR ONE YEAR FOR PARTS AND LABOR, FROM THE DATE OF INVOICE, AGAINST DEFECTS IN WORKMANSHIP AND/OR MATERIALS WHEN THE LIFT IS INSTALLED AND USED ACCORDING TO SPECIFICATIONS.

PNEUMATIC-AIR COMPONENTS (ALL LIFTS):

ALL PNEUMATIC (AIR) COMPONENTS (I.E. AIR CYLINDERS AND POPPET AIR VALVES) ARE GUARANTEED FOR ONE YEAR FOR PARTS AND LABOR, FROM THE DATE OF INVOICE, AGAINST

MOHAWK MODEL PARALLELOGRAM

DEFECTS IN WORKMANSHIP AND/OR MATERIALS WHEN THE LIFT IS INSTALLED AND USED ACCORDING TO SPECIFICATIONS.

STANDARD OPTIONS (ALL LIFTS):

ALL STANDARD OPTIONS OF THIS UNIT ARE GUARANTEED FOR ONE YEAR FOR PARTS AND LABOR, FROM THE DATE OF INVOICE, AGAINST DEFECTS IN WORKMANSHIP AND/OR MATERIALS WHEN LIFT IS INSTALLED AND USED ACCORDING TO SPECIFICATIONS.

SPECIAL AND/OR CUSTOMIZED LIFTS AND OPTIONS:

ALL "SPECIAL" LIFTS AND/OR "CUSTOMIZED" OPTIONS ON THIS UNIT ARE GUARANTEED FOR ONE YEAR FOR PARTS ONLY (EXCLUDING LABOR), FROM THE DATE OF INVOICE, AGAINST DEFECTS IN WORKMANSHIP AND/OR MATERIALS WHEN THE LIFT IS INSTALLED AND USED ACCORDING TO SPECIFICATIONS.

WARRANTY EXCEPTIONS (ALL LIFTS):

ADJUSTMENTS: THIS WARRANTY DOES NOT COVER CASUAL AND ROUTINE ADJUSTMENTS SUCH AS, BUT NOT LIMITED TO: FITTINGS, J-BAR ADJUSTMENTS, ANCHOR BOLT RE-TIGHTENING, OR ANY SHIMMING OR ADJUSTMENTS REQUIRED DURING A PROPER AND PROFESSIONAL INSTALLATION BY A QUALIFIED INSTALLER.

MAINTENANCE AND INSPECTIONS: IF THIS UNIT IS NOT MAINTAINED AND INSPECTED IN ACCORDANCE TO THE RELEVANT SECTIONS IN THE USERS MANUAL FOR THIS SPECIFIC MODEL, WARRANTY IS SUSPENDED UNTIL THE LIFT CONDITION IS PROVEN TO BE TO MOHAWK'S SATISFACTION (ANY CURRENT CLAIMS WILL NOT BE PAID UNTIL THIS REQUIREMENT IS MET). OSHA, ANSI AND MOHAWK REQUIRE THAT RECORDS MUST BE MAINTAINED TO PROVE THAT INSPECTIONS AND MAINTENANCE OF THIS UNIT HAVE BEEN ROUTINELY PERFORMED BY QUALIFIED INDIVIDUALS.

ABUSE: IF THIS UNIT IS FOUND TO BE OVERLOADED (PURPOSELY OR UNKNOWINGLY), USED IN A SITUATION BEYOND ITS INTENDED FUNCTION, NOT MAINTAINED OR INSPECTED REGULARLY, OR USED IN AN ABUSIVE ENVIRONMENT, ETC., THIS WARRANTY IS VOID IN ITS ENTIRETY.

NON-EXISTENT PROBLEMS: FOR SERVICE VISITS, PART REPLACEMENTS, LABOR, ETC. FOR PARTS FOUND TO BE NON-DEFECTIVE, OR FOR A UNIT DIS-FUNCTION THAT DOES NOT EXIST, IT IS THE LIFT OWNER THAT REQUESTED THE SERVICE VISIT WHO BEARS THE RESPONSIBILITY OF ALL RELATED EXPENSES.

BATTERIES: ALL BATTERIES CARRY THE BATTERY MANUFACTURER'S WARRANTY. MAINTENANCE REQUIREMENTS AND ABUSE PROVISIONS ARE AS STATED BY THE BATTERY MANUFACTURER. REFER TO BATTERY MANUFACTURER'S WARRANTY.

* THIS WARRANTY SUPERSEDES ALL OTHER WARRANTY POLICIES PREVIOUSLY STATED AND IN ALL OTHER MOHAWK PRODUCT SPECIFIC LITERATURE (MANUALS, BROCHURES, ETC.).

MODEL NAMES & VARIATIONS:

NOTE: THIS MANUAL IS SUITABLE FOR USE WITH VARIOUS LIFT MODEL CONFIGURATIONS. REFER TO SERIAL TAG ON LIFT AND TABLE BELOW FOR LIFT SPECIFICATIONS.

MODEL NAME	CAPACITY (1000 x LBS)	TRACK LENGTH (FT)	SURFACE (S) OR FLUSH (F) MOUNT
36-28-S	36	28	S
40-35-S	40	35	S
45-35-S	45	35	S
50-22-S	50	22	S
50-26-S	50	26	S
50-32-S	50	32	S
50-35-S	50	35	S
50-48-S	50	48	S
75-26-S	75	26	S
75-30-S	75	30	S
75-35-S	75	35	S
75-48-S	75	48	S
100-42-S	100	42	S
100-48-S	100	48	S
36-28-F	36	28	F
40-35-F	40	35	F
45-35-F	45	35	F
50-22-F	50	22	F
50-26-F	50	26	F
50-32-F	50	32	F
50-35-F	50	35	F
50-48-F	50	48	F
75-26-F	75	26	F
75-30-F	75	30	F
75-35-F	75	35	F
75-48-F	75	48	F
100-42-F	100	42	F
100-48-F	100	48	F

CONTENTS

TEXT

	PAGE
GENERAL NOTES & WARNINGS	2
SPECIFICATIONS	3
PACKING LIST	4
RECOMMENDED TOOL LIST	5
BEFORE INSTALLING A LIFT	6
INSTALLATION INSTRUCTIONS	7-8
OPERATION INSTRUCTIONS	9-10
SAFETY TIPS	11
PRE - OPERATION CHECK LIST / LIFTING PROCEDURES	12
MAINTENANCE PROCEDURES	13
MANUAL CONTROLS	14
TROUBLE SHOOTING	15-16
TROUBLE SHOOTING, ERROR MESSAGES	17
SERVICE & MAINTENANCE CHART	18

FIGURES / DIAGRAMS

	FIGURE	PAGE
WEJ-IT INSTALLATION	1	20
WEJ-IT INSTALLATION, CONT	2	21
WEJ-IT INSTALLATION, CONT	3	22
REUSABLE FITTING INSTALLATION	4	23
PLATFORM SETUP & SHIMMING	5	24
PULLING HOSE THROUGH CONDUIT TIP	6	25
PLATFORM IN-FLOOR CONDUIT CONNECTIONS	7	26
CONSOLE CONNECTIONS	8	27
CONSOLE CONNECTIONS	9	28
CONTROL PANEL & LIFT ELECTRICAL CONNECTIONS	10	29
CONTROL PANEL FIELD ELECTRICAL CONNECTIONS	11	30
ELECTRICAL WIRING, LIFT, 4 LEG	12	31
ELECTRICAL WIRING, LIFT, 6 LEG	13	32
REED SWITCH POSITIONING, LOCKS OPEN	14	33
REED SWITCH POSITIONING, LOCKS CLOSED	15	34
HOME SWITCH ADJUSTMENT PROCEDURE	16	35
CONSOLE PNEUMATIC CONNECTIONS	17	36
CONSOLE MANUAL OVERRIDE CONTROLS	18	37
PARALLELOGRAM SHIMMING	19	38-39

MISCELLANEOUS INFORMATION

MTL INTRINSICALLY SAFE BARRIER CERTIFICATES
 BEI INTRINSICALLY SAFE ENCODER BARRIER DRAWINGS
 BEI INTRINSICALLY SAFE ENCODER DRAWINGS

SURFACE MOUNT INSTALLATION DRAWINGS

THIS PACKET OF DRAWINGS CONTAINS SURFACE INSTALLATION INFORMATION FOR PREPARATION OF FLOOR, GENERAL DIMENSIONS OF LIFT, AND GENERAL INSTALLATION INSTRUCTIONS **FOR A STANDARD 50-26-S LIFT.**

FLUSH MOUNT INSTALLATION DRAWINGS

THIS PACKET OF DRAWINGS CONTAINS FLUSH INSTALLATION INFORMATION FOR PREPARATION OF FLOOR, GENERAL DIMENSIONS OF LIFT, AND GENERAL INSTALLATION INSTRUCTIONS **FOR A STANDARD 50-26-F LIFT.**

PARTS DRAWINGS

THIS PACKET OF DRAWINGS CONTAINS REPRESENTATIVE ASSEMBLY DRAWINGS WITH PART BREAKDOWNS.

UNIFORM WARNING, CAUTION & SAFETY DIAGRAMS

ALL INFORMATION, ILLUSTRATIONS, AND SPECIFICATIONS IN THIS MANUAL ARE BASED ON THE LATEST PRODUCT INFORMATION AVAILABLE AT THE TIME OF PRINTING. WE RESERVE THE RIGHT TO MAKE CHANGES AT ANY TIME WITHOUT NOTICE.

GENERAL NOTES & WARNINGS

RECOMMENDATIONS BY THE INDIVIDUAL USER OR USING ORGANIZATION FOR IMPROVING THIS PUBLICATION OR ANY ASPECT OF THE PRODUCT ARE ENCOURAGED AND SHOULD BE FORWARDED IN WRITING TO:

**MOHAWK RESOURCES LTD.
PRODUCT IMPROVEMENTS
65 VROOMAN AVE.
AMSTERDAM, NY, 12010**

THIS IS NOT A VEHICLE LIFTING PROCEDURE MANUAL AND NO ATTEMPT IS MADE OR IMPLIED HEREIN TO INSTRUCT THE USER IN LIFTING METHODS PARTICULARLY TO THE INDIVIDUAL APPLICATION OF THE EQUIPMENT DESCRIBED IN THIS MANUAL. RATHER, THE CONTENTS OF THIS MANUAL ARE INTENDED AS A BASE LINE FOR OPERATION, MAINTENANCE, TROUBLE SHOOTING, AND PARTS LISTING OF THE UNIT AS IT STANDS ALONE AND AS IT IS INTENDED AND ANTICIPATED TO BE USED IN CONJUNCTION WITH OTHER EQUIPMENT.

PROPER APPLICATION OF THE EQUIPMENT DESCRIBED HEREIN IS LIMITED TO THE PARAMETERS DETAILED IN THE SPECIFICATIONS AND THE USES SET FORTH IN THE DESCRIPTIVE PASSAGES. ANY OTHER PROPOSED APPLICATION OF THIS EQUIPMENT SHOULD BE DOCUMENTED AND SUBMITTED IN WRITING TO MOHAWK RESOURCES LTD. FOR EXAMINATION. THE USER ASSUMES FULL RESPONSIBILITY FOR ANY EQUIPMENT DAMAGE, PERSONAL INJURY, OR ALTERATION OF THE EQUIPMENT DESCRIBED IN THIS MANUAL OR ANY SUBSEQUENT DAMAGES.

DO NOT WELD, APPLY HEAT, OR MODIFY THIS EQUIPMENT IN ANY MANNER WITHOUT WRITTEN AUTHORIZATION FROM MOHAWK RESOURCES LTD. CERTAIN ALLOY OR HEAT-TREATED COMPONENTS MAY BE DISTORTED OR WEAKENED, RESULTING IN AN UNSAFE CONDITION.

MOHAWK RESOURCES LTD. IS NOT RESPONSIBLE FOR DISTORTIONS, WHICH RESULT FROM WELDING ON THIS EQUIPMENT AFTER MANUFACTURING IS COMPLETED. UNAUTHORIZED WELDING, APPLICATION OF HEAT, OR MODIFICATION OF THIS EQUIPMENT VOIDS ANY AND / OR ALL APPLICABLE WARRANTIES COVERING THIS EQUIPMENT.

ALL WARRANTIES APPLICABLE TO THIS EQUIPMENT ARE CONTINGENT ON STRICT ADHERENCE TO THE MAINTENANCE SCHEDULES AND PROCEDURES IN THIS MANUAL.

KEEP ALL SHIELDS AND GUARDS IN PLACE. INSURE ALL SAFETY MECHANISMS ARE OPERABLE. KEEP HANDS, FEET, AND CLOTHING AWAY FROM POWER-DRIVEN AND MOVING PARTS.

WARNING

- DO NOT INSTALL THIS UNIT IN A PIT OR DEPRESSION DUE TO FIRE OR EXPLOSION RISK

IMPORTANT NOTE

A LEVEL FLOOR IS SUGGESTED FOR A PROPER INSTALLATION SITE AND WILL ENSURE LEVEL LIFTING. SMALL DIFFERENCES IN FLOOR SLOPES MAY BE COMPENSATED FOR WITH SPECIAL LIFTING PADS. ANY MAJOR SLOPE CHANGES WILL AFFECT THE LOW PROFILE HEIGHT OF THE LIFTING PADS AND / OR THE UNITS LEVEL LIFTING PERFORMANCE. IF A FLOOR IS OF QUESTIONABLE SLOPE, CONSIDER A SURVEY OF THE SIGHT AND / OR THE POSSIBILITY OF POURING A NEW LEVEL CONCRETE SLAB SECTION. SIMPLY STATED, FOR OPTIMUM LEVEL LIFTING, THE EQUIPMENT, AT BEST, CAN LIFT ONLY AS LEVEL AS THE FLOOR ON WHICH IT IS LOCATED... AND SHOULD

NOT BE EXPECTED TO COMPENSATE FOR DRASTIC FLOOR SLOPE DIFFERENCES.

THIS EQUIPMENT MUST BE INSTALLED ON A LEVEL CONCRETE FLOOR WITH A MINIMUM THICKNESS OF **6" ON GRADE**. THE CONCRETE MUST BE AGED AT LEAST (28) TWENTY EIGHT DAYS PRIOR TO INSTALLATION AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF **4000 P.S.I.** REFER TO INSTALLATION INSTRUCTIONS FOR ADDITIONAL REQUIRED SPECIFICATIONS OF FLOOR.

DO NOT INSTALL THIS UNIT ON ANY ASPHALT SURFACE.

DO NOT INSTALL THIS UNIT ON ANY SURFACE OTHER THAN CONCRETE CONFORMING TO THE MINIMUM SPECIFICATIONS STATED IN THE PRE-EXISTING FLOOR REQUIREMENTS SECTION.

DO NOT INSTALL THIS UNIT ON EXPANSION SEAMS OR ON CRACKED, DEFECTIVE CONCRETE. CHECK WITH BUILDING ARCHITECT.

DO NOT INSTALL THIS UNIT ON A SECOND FLOOR OR ANY GROUND FLOOR WITH A BASEMENT BENEATH WITHOUT WRITTEN AUTHORIZATION FROM THE BUILDING ARCHITECT.

INSTALL THIS EQUIPMENT ON CONCRETE ONLY

IF, FOR ANY REASON, A NEW CONCRETE SLAB SECTION IS REQUIRED, THE MINIMUM THICKNESS, COMPRESSIVE STRENGTH, AND AGING ARE MANDATORY. FOR YOUR PROTECTION, CERTIFIED STRENGTH DOCUMENTATION SHOULD BE OBTAINED FROM THE FIRM WHO SUPPLIES THE CONCRETE MIXTURE AT THE TIME OF THE POUR. SPECIAL CONSIDERATION SHOULD BE MADE TO THE JOINING OF THE EXISTING FLOOR AND THE NEW SECTION BEING ADDED. CHECK WITH BUILDING ARCHITECT. THE SUGGESTED SIZE OF THE NEW CONCRETE SLAB SECTION IS SHOWN IN THE NEW SLAB RECOMMENDATIONS SECTION.

CAUTION

THE EQUIPMENT DESCRIBED IN THIS MANUAL COULD BE POTENTIALLY DANGEROUS IF IMPROPERLY OR CARELESSLY OPERATED. FOR THE PROTECTION OF ALL PERSONS AND EQUIPMENT, ONLY COMPETENTLY TRAINED OPERATORS WHO ARE CRITICALLY AWARE OF THE PROPER OPERATING PROCEDURES, POTENTIAL DANGERS, AND SPECIFIC APPLICATION OF THIS EQUIPMENT SHOULD BE ALLOWED TO TOUCH THE CONTROLS AT ANY TIME.

SAFE OPERATION OF THIS EQUIPMENT IS DEPENDENT ON USE, IN COMPLIANCE WITH THE OPERATION PROCEDURES OUTLINED IN THIS MANUAL ALONG WITH THE MAINTENANCE AND INSPECTION PROCEDURES WITH CONSIDERATION OF PREVAILING CONDITIONS.

THE EQUIPMENT DESCRIBED IN THIS MANUAL IS NEITHER DESIGNED NOR INTENDED FOR ANY APPLICATION ALONE OR IN CONJUNCTION WITH ANY OTHER EQUIPMENT THAT INVOLVES THE LIFTING OR MOVING OF PERSONS.

ALWAYS CONSULT THE VEHICLE LIFTING GUIDE FOR THE PROPER LIFTING POINTS ON ANY VEHICLE. THESE GUIDES ARE AVAILABLE FROM THE VEHICLE MANUFACTURERS.

AFTER LIFTING THE VEHICLE TO THE DESIRED HEIGHT, ALWAYS LOWER THE UNIT ONTO THE MECHANICAL SAFETIES. THE FORMING OF GOOD OPERATIONAL WORK HABITS WILL ELIMINATE OVERSIGHTS IN THE USE OF PROVIDED SAFETY DEVICES.

PARALLELOGRAM SPECIFICATIONS

STANDARD PARALLELOGRAM SPECIFICATIONS

LIFT TYPE / PARALLELOGRAM	ELECTRIC / HYDRAULIC
GROSS LIFTING CAPACITY (DEPENDENT ON MODEL)	36,000 LBS. OR 50,000 LBS OR 75,000 LBS
LIFTING SPEED APPROX.	60 SECONDS
LIFTING HEIGHT	63 INCH
OVERALL WIDTH	109 INCH STANDARD
WIDTH BETWEEN PLATFORMS	45 INCH STANDARD
PLATFORM HEIGHT (FULLY LOWERED)	13 INCH (SURFACE) 16 INCH (FLUSH)
SHIPPING WEIGHT	17000 LBS. PACKED APPROX

POWER UNIT SPECIFICATIONS

MANUFACTURER	FPS
MODEL	M-12193A
POWER UNIT TYPE	VERTICAL (T-STYLE)
MOTOR VOLTAGE	208-230 / 460 VAC
FLA @ RATED CAPACITY	60 / 30 AMPS
MOTOR HORSEPOWER	20 HP
MOTOR PHASE	THREE
MOTOR FREQUENCY	60 HZ
MOTOR SPEED	1800 RPM
PUMP FLOW	10.2 @ 1800 RPM
RELIEF VALVE SETTING	3000 PSI
WORKING PRESSURE	2700 PSI
RESERVOIR CAPACITY	30 GALLONS
HYDRAULIC FLUID MEDIUM	DEXRON III

SUGGESTED SITE SELECTION / BAY SIZE

WIDTH	DEPTH	HEIGHT
17 FEET	40 FEET	20 FEET MIN

NOTE

THE PLACEMENT OF THE UNIT IS DETERMINED BY THE TYPE (LENGTH, WIDTH, HEIGHT) OF VEHICLE BEING SERVICED AS WELL AS THE CLEARANCES DESIRED AROUND THE LIFT AND THE VEHICLES BEING SERVICED.

WEJ-IT ANCHOR SPECIFICATIONS

LENGTH	DRILL DEPTH	DRILL SIZE	DRILL SIZE		TORQUE (N/A)
			MIN.	MAX.	
6 INCH	6 INCH MIN *	3/4 INCH	.775 INCH	.787 INCH	3-5 TURNS PAST HAND TIGHT

PRE-EXISTING FLOOR REQUIREMENTS

MINIMUM THICKNESS	MINIMUM COMPRESSIVE STRENGTH	MINIMUM AGING
6 INCH	4000 P.S.I.	28 DAYS

DO NOT INSTALL ANY MOHAWK LIFT ON ANY SURFACE OTHER THAN CONCRETE CONFORMING TO THE MINIMUM COMPRESSIVE STRENGTH, MINIMUM AGING, AND THE MINIMUM THICKNESS STATED ABOVE.

DO NOT INSTALL ANY MOHAWK LIFT ON EXPANSION SEAMS OR ON CRACKED, OR DEFECTIVE CONCRETE.

DO NOT INSTALL ANY MOHAWK LIFT ON SECONDARY FLOOR LEVELS OR ANY SURFACE WITH A BASEMENT BENEATH WITHOUT WRITTEN AUTHORIZATION FROM THE BUILDING ARCHITECT. NEVER HAND MIX YOUR OWN CONCRETE.

IF FOR ANY REASON A NEW CONCRETE SLAB SECTION IS REQUIRED, FOLLOW THE INSTRUCTIONS FOR THE FLOOR MODIFICATION DATA.

**FLOOR MODIFICATION DATA
NEW FLOOR SECTION**

THICKNESS	SLAB SIZE WIDTH x LENGTH	CUBIC YARDS
12 INCHES	12 FT x (LIFT LENGTH + 12')	VARIABLE

IF, FOR ANY REASON, A NEW CONCRETE SLAB SECTION IS REQUIRED, MINIMUM THICKNESS, COMPRESSIVE STRENGTH, AND PROPER AGING IS MANDATORY.

THE NEW SLAB SECTION MUST BE TOTALLY SURROUNDED BY AN EXISTING CONCRETE FLOOR THAT IS STRUCTURALLY SOUND. CERTIFIED STRENGTH DOCUMENTATION SHOULD BE OBTAINED FROM THE FIRM WHO SUPPLIES THE CONCRETE MIXTURE AT THE TIME OF THE POUR.

NEVER HAND MIX THE CONCRETE.. REFER TO NEW SLAB RECOMMENDATIONS SECTION.

RECOMMENDED TOOL LIST

TOOL DESCRIPTION	USED IN
FLOOR LAYOUT	
30 FT TAPE MEASURE	FLOOR LAYOUT / VERIFY LEVEL ASSEMBLY
CHALK LINE	FLOOR LAYOUT
SOAP STONE	FLOOR LAYOUT
4 FT BUBBLE LEVEL	VERIFY LEVEL FLOORING / PREDICT SHIMMING
MOVING AND UNPACKING	
LIFTING DEVICE, 4 TON	LIFTING / MOVING HEAVY ITEMS
WRENCH & SOCKET, 1 1/8 INCH	¾ INCH PACKING BOLTS
CRESCENT WRENCH, 1 1/8 INCH	¾ INCH PACKING BOLTS
TIN SNIPS	PACKAGING BANDING
PLATFORM SETUP & DRILLING	
LIFTING DEVICE, 4 TON	LIFTING / MOVING HEAVY ITEMS
LEAD CORD OR AIRLINE, 100 FT LG	OPERATE ELECTRICAL/PNEUMATIC TOOLS
PORTA POWER	TO ADJUST ALIGNMENT OF PLATFORMS
PRY BAR	MOVING HEAVY ITEMS
HAMMER DRILL	DRILLING CONCRETE
HAND DRILL FOR 3/4 INCH BIT	DRILLING CONCRETE BEHIND LEGS
DRILL BIT, 3/4 INCH	DRILLING CONCRETE
DRILL BIT, 3/4 INCH, SHORT	DRILLING CONCRETE BEHIND LEGS
DRILL BIT, 3/4 INCH, REBAR CUTTING TYPE	DRILLING CONCRETE AND REBAR
MEDIUM HAMMER	¾ INCH WEJ-IT ANCHORS
WRENCH & SOCKET, 1 1/8 INCH	¾ INCH WEJ-IT ANCHORS
4 FT BUBBLE LEVEL	VERIFY LEVEL ASSEMBLY
ASSEMBLE ATTACHMENTS	
WRENCH & SOCKET, 13/16 INCH	ASSEMBLE STOPS, FLIP PLATES, ETC, 7/16 BOLTS
WRENCH & SOCKET, 3/4 INCH	ASSEMBLE LIGHTS, ETC, 1/2 BOLTS
CONSOLE & UNDERGROUND ROUTING	
FISH WIRE, 30'	FISHING WIRES THRU CONDUIT
MECHANICS WIRE	FISHING WIRES THRU CONDUIT
DUCT TAPE	FISHING WIRES THRU CONDUIT
FLAT HEAD SCREW DRIVER, SMALL	CONNECTING WIRES @ CONSOLE
CUTTING KNIFE	CUTTING AIR LINES
WIRE CRIMPERS	WIRE CRIMPS @ LIFT CONNECTIONS
WRENCH & SOCKET, 3/8 INCH	REMOVE PANELS FROM CONSOLE, 1/4 BOLTS
TABLE VISE	ASSEMBLY OF RE-USABLE HOSE FITTINGS
LARGE 2' LONG CRESCENT WRENCH	ASSEMBLY OF RE-USABLE HOSE FITTINGS

**BEFORE INSTALLING A LIFT
IMPORTANT**

BEFORE INSTALLING A MOHAWK LIFT THERE ARE A FEW ITEMS THAT MUST BE INSPECTED. EACH REPAIR SHOP BAY IS DIFFERENT. IN AN ATTEMPT TO PREVENT OVERSIGHTS, ALL OF THE FOLLOWING INFORMATION IS TO BE VERIFIED AND INVESTIGATED.

OVERHEAD OBSTRUCTIONS

THE AREA WHERE THE LIFT WILL BE LOCATED SHALL BE FREE OF OBSTRUCTIONS. HEATERS, BUILDING SUPPORTS, ELECTRICAL CONDUIT; ALL OF THESE ITEMS ARE TO BE TWENTY (20) FEET ABOVE THE BAY FLOOR.

DEFECTIVE CONCRETE

VISUALLY INSPECT THE BAY FLOOR AREA. THE UNIT CANNOT BE INSTALLED ON EXPANSION SEAMS, OR CONCRETE THAT IS CRACKED. THE UNIT IS ONLY AS STRONG AS THE FLOOR IT IS INSTALLED ON.

FLOOR REQUIREMENTS

THIS INFORMATION IS IN THE GENERAL FLOOR REQUIREMENTS. IF THE BAY FLOOR DOES NOT CONFORM TO THESE SPECIFICATIONS, REFER TO INSTALLATION INSTRUCTIONS.

POWER SUPPLIES

THE STANDARD POWER UNIT IS 220 VAC THREE PHASE. THE USER IS TO SUPPLY CIRCUIT PROTECTION, DISCONNECTING MEANS AND LOCKOUT TAGOUT FOR INCOMING POWER TO LIFT. REFER TO THE POWER UNIT SPECIFICATIONS SECTION. REQUIREMENTS MAY VARY ON SPECIAL ORDERS.

ALSO, AN AIR SUPPLY OF 60 PSI MINIMUM @ 25 CFM MINIMUM IS ALSO REQUIRED. THE USER IS TO PROVIDE DRYER, MAIN SHUTOFF, FILTER/LUBRICATOR/REGULATOR FOR INCOMING AIR SUPPLY TO LIFT.

THE CONTROL CONSOLE WILL REQUIRE THE ELECTRICAL POWER SUPPLY AND PNEUMATIC AIR SUPPLY FOR THE UNIT. NOTE THE LOCATION OF THE POWER SUPPLY.

BAY SIZE

TO OPTIMIZE SHOP SPACE, IT IS ADVISED TO LOCATE A VEHICLE IN THE BAY PRIOR TO LAYOUT. NOTE WALKWAYS, OVERHEAD OBSTRUCTIONS, AND ABILITY TO MOVE EQUIPMENT IN THE BAY AREA.

REQUIREMENTS MAY VARY ON SPECIAL ORDERS.

SPECIFICATIONS

REFERENCE ALL SPECIFICATIONS PRIOR TO INSTALLING A LIFT.

INSTALLATION INSTRUCTIONS

IMPORTANT !!

READ THIS MANUAL IN ITS ENTIRETY. BE FAMILIAR WITH PART NAMES AND HAVE A GOOD UNDERSTANDING OF HOW THIS UNIT IS TO BE ASSEMBLED AND OF HOW INDIVIDUAL PARTS OPERATE, BEFORE ASSEMBLING THE UNIT.

REFER TO ANSI/ALI ALIS, SAFETY REQUIREMENTS FOR INSTALLATION AND SERVICE OF AUTOMOTIVE LIFTS.

REFER TO ATTACHED DRAWING SET FOR FLOOR PREPARATION. VERIFY THAT FLOOR DIMENSIONALLY CONFORMS TO SPECIFICATIONS PRIOR TO BRING LIFT COMPONENTS INTO BAY.

USING A CHALK LINE, LAYOUT THE FLOOR DIMENSIONS WHERE THE UNIT WILL BE LOCATED.

MOVE THE PACKED UNIT NEAR THE SETUP AREA AND COLLECT ALL NEEDED TOOLS (SEE RECOMMENDED TOOL LIST).

PLACE CONSOLE IN VICINITY WHERE IT WILL BE LOCATED.

FISH ALL HYDRAULIC LINES, PNEUMATIC LINES AND ELECTRICAL CABLES AS SHOWN IN DIAGRAM ENCLOSED. DO NOT TRIM ANY EXCESS UNTIL CONNECTIONS ARE READY TO BE MADE.

AT THIS TIME HAVE A QUALIFIED ELECTRICIAN CONNECT THE POWER SUPPLY TO THE UNIT

REFER TO ELECTRICAL SCHEMATIC FOR WIRING OF POWER UNIT TO POWER SUPPLY.

VERIFY PROPER MOTOR ROTATION BY JOGGING THE RAISE BOTTON. ENSURE THAT THE MOTOR IS ROTATING CLOCK-WISE AS VIEWED FROM THE TOP OF THE MOTOR. REVERSE INCOMING POWER LEADS IF ROTATION IS REVERSED.

ENSURE THAT THERE IS PROPER AIR SUPPLY TO CONSOLE AIR REGULATOR (SET REGULATOR TO 80 PSI).

REVIEW THE CONTROL INSTRUCTIONS AND OPERATION PROCEDURES TO ACHIEVE A GOOD UNDERSTANDING OF HOW TO OPERATE THE LIFT.

PRESS THE RAISE BUTTON AND THE F4 BUTTON SIMULTANEOUSLY. THE PLATFORMS WILL NOT RAISE IMMEDIATELY UNTIL THE HYDRAULIC LINES FROM THE CONSOLE TO THE LIFT ARE FILLED WITH HYDRAULIC FLUID. ONCE MOTION IN THE PLATFORMS IS SEEN, PRESS THE RAISE BUTTON ONLY. CONTINUE PRESSING THE RAISE BUTTON UNTIL THE PLATFORMS ARE AT FULL HEIGHT.

PRESS THE LOWER BUTTON AND THE PLATFORMS WILL RAISE FOR A FEW SECONDS, RELEASE THE LOCKS, THEN LOWER. IF THEY DO NOT LOWER, VERIFY THE "LOCKS OPEN" REED SWITCHES ARE ADJUSTED PROPERLY. REFER TO FIGURE IN BACK OF MANUAL.

PRESS THE LOWER BUTTON TO LOWER LIFT COMPLETELY. THE CONTROL SCREEN SHOULD READ ZERO HEIGHT FOR BOTH PLATFORMS WHEN LIFT IS FULLY LOWERED. IF THE PLATFORMS ARE STILL READING A VALUE WHEN FULLY LOWERED, THE HOME SWITCHES IN THE PLATFORMS MAY NEED TO BE ADJUSTED. REFER TO FIGURE IN BACK OF MANUAL.

PRESS THE UP BUTTON AND RAISE THE LIFT FULLY. WAIT A FEW MINUTES, THEN PRESS LOWER AND LOWER FULLY. REPEAT THIS A FEW TIMES UNTIL THE PLATFORMS MOVE SMOOTHLY. (THIS WILL BLEED THE AIR FROM THE HYDRAULIC SYSTEM). PLATFORMS SHOULD "ZERO" OUT EVERYTIME THE LIFT IS FULLY LOWERED.

RAISE AGAIN AND WITNESS THAT THE PARK LIGHT ILLUMINATES WHEN THE LOCKS FALL INTO THE LATCHES. RELEASE UP BUTTON WHEN PARK LIGHT ACTIVATES AND PRESS THE PARK BUTTON. HOLD PARK BUTTON UNTIL THE CONTROL SCREEEN READING STOP CHANGING. IF THE PARK LIGHT DOES NOT COME ON, OR IF AN ERROR MESSAGE APPEARS WHEN ATTEMPTING TO PARK THE LIFT, THE "LOCKS CLOSED" REED SWITCHES MAY NEED TO BE ADJUSTED. REFER TO FIGURE IN BACK OF MANUAL.

RAISE THE LIFT A FEW MORE TIMES TO VERIFY THAT IT IS RUNNING SMOOTHLY WITHOUT ERRORS.

-- IMPORTANT NOTE ON FORKTRUCKS--

EACH PLATFORM WEIGHTS APPROX 8000 LBS. IT IS HIGHLY RECOMMENDED TO USE A SINGLE 4 TON FORKLIFT TO MOVE THESE. A PAIR OF 2 TON FORKLIFTS CAN PERFORM THE SAME FUNCTION, BUT MANEVRABILITY WILL BE A CHALLENGE AND SHOULD BE EXPECTED. ENSURE THAT THERE IS PROPER CLEARANCE IN THE BAY TO MANEUVER FORKTRUCKS WHERE THEY WILL HAVE TO GO TO POSITION THE PLATFORMS PROPERLY.

CUT THE BANDING AND OPEN THE PARTS. VERIFY PARTS BOX CONTENTS. **REFER TO PARTS PACKING DRAWING SECTION IN THIS MANUAL.** IF MISSING PARTS ARE NOTED, THEY CAN BE OBTAINED BY CALLING 1-800-833-2006 OR BY CONTACTING YOUR LOCAL MOHAWK DISTRIBUTOR.

POSITION THE PLATFORMS ON THE FLOOR. ENSURE THAT THE ENDS HAVING THE CONNECTION LINES ARE AT THE UNDERGROUND CONDUITS. **A SPACING OF 45 INCHES (+1/4 / -0) IS REQUIRED BETWEEN PLATFORMS IN BOTH LOWERED AND RAISED POSITIONS.** POSITIONING IS APPROXIMATE FOR NOW UNTIL THE LIFT IS CONNECTED AND CYLCLED UP AND DOWN.

CONNECT ALL ELECTRICAL, PNEUMATIC AND HYDRAULIC LINES AT BASE OF PLATFORMS.

CONNECT ALL ELECTRICAL, PNEUMATIC AND HYDRAULIC LINES AT CONSOLE. REFER TO DIAGRAMS IN BACK OF MANUAL FOR ELECTRICAL CONNECTIONS INSIDE OF CONSOLE ENCLOSURE.

ENSURE THAT ALL HYDRAULIC AND AIR LINE CONNECTIONS ARE TIGHT TO PREVENT LEAKAGE.

PLATFORM SHIMMING

LEVEL THE PLATFORMS BY INSERTING THE SUPPLIED SHIMS UNDER THE BASE FOOTINGS AROUND THE WEJ-IT ANCHORS. THE LIFT MUST BE LEVEL BOTH FRONT TO REAR AND SIDE TO SIDE. A LEVELING DEVICE AND A MEASURING TAPE MUST BE USED. **REFER TO FIGURE IN BACK OF MANUAL.** ENSURE THAT PLATFORMS ARE SQUARE AND LEVEL AT FULLY RAISED AND FULLY LOWERED POSITION. **A SPACING OF 45 INCHES (+1/4 / -0) IS REQUIRED BETWEEN PLATFORMS IN BOTH LOWERED AND RAISED POSITIONS.** USE HORSESHOE SHAPED SHIMS AS NEEDED TO LEVEL AND SQUARE THE PLATFORMS FIRST, THEN SHIFT PLATFORMS AND SHIM TO OBTAIN THE 45 INCH DIMENSION. **REFER TO PLATFORM SHIMMING DIAGRAM FURTHER ON IN THIS MANUAL.**

SECURE THE PLATFORMS TO THE BAY FLOOR USING THE 3/4 x 6 INCH WEJ-IT ANCHORS. REFER TO THE FOLLOWING: "DRILLING THE MOUNTING HOLES" AND WEJ-IT INSTALLATION DIAGRAMS AND INSTRUCTIONS IN THE END OF THIS MANUAL. OBSERVE TIGHTENING SEQUENCE DEPICTED IN INSTALLATION DRAWINGS (TIGHTEN BOLTS FROM CENTER OF BASE OUTWARD TO ENDS).

-- WARNING --

FAILURE TO FOLLOW THE INSTRUCTIONS FOR DRILLING THE MOUNTING HOLES AND PROPERLY INSTALLING THE WEJ-IT ANCHORS MAY RESULT IN COLLAPSE OF THE LIFT AND/OR FATAL INJURY. THIS LIFT IS ONLY AS STRONG AS THE WEJ-ITS THAT HOLD IT TO THE CONCRETE FLOOR. ENSURE THAT THE WEJ-IT ANCHORS ARE INSTALLED PROPERLY!

-- IMPORTANT --
DRILLING THE MOUNTING HOLES

- ◆ REFERENCE ALL FIGURES PERTAINING TO DRILLING, WEJ-IT WARNINGS, AND INSTALLATION INSTRUCTIONS.
- ◆ WHEN DRILLING THE HOLES, USE A SHARP DRILL BIT (PER ANSI STANDARD) TO PREVENT DRILLING AN UNDERSIZED HOLE. DRILL THE HOLE EQUAL TO THE LENGTH OF THE WEJ-IT ANCHOR. BLOW OUT THE HOLE WITH SHOP AIR, OR VACUUM.
- ◆ WHEN INSERTING THE WEJ-IT ANCHORS, INSERT THEM SO THAT THE WASHER RESTS AGAINST THE POST FOOTING. TIGHTEN THE NUT 3 TO 5 FULL TURNS PAST HAND TIGHT.
- ◆ NEVER USE AN IMPACT TOOL TO TIGHTEN THE WEJ-IT ANCHORS. USE A WRENCH ONLY.
- ◆ MAKE SURE THE CONCRETE IS SOLID WHEN DRILLING. CRACKS AND EXPANSION SEAMS REDUCE THE EFFECTIVENESS OF THE WEJ-IT ANCHOR. NEVER INSTALL THE ANCHOR UNDER THESE CONDITIONS.
- ◆ MATCH DRILL SIX 3/4-INCH HOLES THRU THE BASE PLATE OF THE MAIN SIDE POST. INSERT AND TIGHTEN THE WEJ-IT ANCHOR 3-5 FULL TURNS PAST HAND TIGHT.
- ◆ INSURE THE INSIDE DIMENSIONS BETWEEN THE MAIN AND OFF SIDE POST IS STILL CORRECT.
- ◆ MATCH DRILL SIX 3/4-INCH HOLES THRU THE BASE PLATE OF THE OFF SIDE POST. INSERT AND TIGHTEN THE WEJ-IT ANCHOR 3-5 FULL TURNS PAST HAND TIGHT.

AFTER LIFT IS ANCHORED TO FLOOR, VERIFY SMOOTH OPERATION UP AND DOWN AGAIN.

ASSEMBLY ANY REMOVE COVERS TO LIFT. ATTACH AUTOMATIC WHEEL CHOCKS TO ENDS OF PLATFORMS WITH HARDWARE SUPPLIED.

APPLY SEALING FOAM TO UNDERGROUND CONDUIT CONNECTIONS AT LIFT AND AT CONSOLE

PLACE COVERS OVER FLOOR SERVICES AT END OF PLATFORMS. ANCHOR RAMPS TO FLOOR (FOR SURFACE MOUNT LIFT ONLY).

ATTACH ALL COVERS TO CONSOLE.

HOW THIS LIFT OPERATES:

THIS LIFT HAS BASICALLY **THREE MAIN FUNCTIONS**. THE TASKS OF EACH OF THESE FUNCTIONS IS DESCRIBED BELOW:

- **RAISE PLATFORMS** – RAISES BOTH PLATFORMS SYNCHRONOUSLY WHILE BUTTON IS PRESSED.
- **LOWER PLATFORMS** – RAISES BOTH PLATFORMS FOR A FEW SECONDS, RELEASES ALL MECHANICAL LOCKS, THEN CONTINUES TO LOWER BOTH PLATFORMS SYNCHRONOUSLY WHILE BUTTON IS PRESSED.
- **PARK PLATFORMS** – LOWERS BOTH PLATFORMS ONTO MECHANICAL LOCKS. THIS FUNCTION ONLY OPERABLE WHEN THE BUTTON IS ILLUMINATED.

EACH OPERATION REQUIRES THE LIFT UNIT TO DETECT AND ENSURE CERTAIN **CONDITIONS** ARE MET IN ORDER TO OPERATE. UNDERSTANDING HOW THESE CONDITIONS EFFECT THE PERFORMANCE (OR LACK OF PERFORMANCE) OF THIS LIFT WILL GREATLY BENEFIT THE USER IN PROPERLY OPERATING AND TROUBLESHOOTING THIS LIFT. THESE CONDITIONS ARE AS FOLLOWS:

- **ADEQUATE AIR SUPPLY:** A MINIMUM OF 60 PSI AIR IS REQUIRED TO ACTIVATE THE LOCK RELEASES ON THIS LIFT. IF PRESSURIZED AIR IS NOT SUPPLIED, CONTROL DISPLAY SCREEN WILL GIVE AN ERROR MESSAGE AND WILL NOT ALLOW ANY MAIN FUNCTIONS TO OPERATE UNTIL THIS IS CORRECTED.
- **ENCODER PRESENCE:** EACH PLATFORM HAS A ROTARY ENCODER THAT PERFORMS COUNTS AS THE LIFT IS RAISED AND LOWERED. THESE ARE THE HEART OF THE SYNCHRONIZATION OF THIS LIFT. IF READINGS ARE NOT RECEIVED FROM THE LIFT TO THE CONTROL CONSOLE FROM THESE ENCODERS, THE CONTROL DISPLAY SCREEN WILL GIVE AN ERROR MESSAGE AND WILL NOT ALLOW ANY MAIN FUNCTIONS TO OPERATE UNTIL THIS IS CORRECTED.
- **SYNCHRONOUS LIMITS:** WHILE RECEIVING ENCODERS COUNTS FROM EACH PLATFORM, THE CONTROLS ALSO VERIFY THAT THESE COUNTS ARE WITHIN A CERTAIN DEGREE OF TOLERANCE TO MAINTAIN LEVEL AND SYNCHRONOUS LIFTING. IF THE COUNTS ARE NOT MAINTAINED WITHIN A DIFFERENTIAL VALUE OF ~100, THEN THE CONTROL DISPLAY SCREEN WILL GIVE AN ERROR MESSAGE AND WILL NOT ALLOW ANY MAIN FUNCTIONS TO OPERATE UNTIL THIS IS CORRECTED.
- **LOCKS RELEASED:** ON EACH LOCK RELEASE AIR CYLINDER, THERE IS A REED SWITCH THAT DETECTS WHEN THE LOCK IS FULLY RELEASED. ALL THESE LOCK RELEASE REED SWITCHES MUST BE ACTIVATED IN ORDER FOR THE LIFT TO LOWER, OTHERWISE ANY LOWERING OPERATION WILL HALT.
- **LOCKS ENGAGED:** ON EACH LOCK RELEASE AIR CYLINDER, THERE IS A REED SWITCH THAT DETECTS WHEN THE LOCK IS FULLY ENGAGED. ALL THESE LOCK ENGAGE REED SWITCHES MUST BE ACTIVATED IN ORDER FOR THE LIFT PARK LIGHT TO ILLUMINATE AND ALLOW THE LIFT TO BE PARKED ON THE MECHANICAL LOCKS.
- **HOME POSITION:** AT THE END OF EACH PLATFORM IS A SWITCH THAT IS ACTIVATED WHEN EACH PLATFORM IS FULLY LOWERED. THESE SWITCHES “ZERO” OUT THE ENCODER COUNTS FOR EACH PLATFORM AND TELL THE SYSTEM THAT THE LIFT IS IN “HOME” POSITION.
- **CONTROL DISPLAY STATUS:** THE DISPLAY SHOWS ERROR MESSAGES AND THE STATUS OF THE LIFT. SOME MESSAGES MUST BE CANCELLED IN ORDER FOR THE LIFT TO BE IN OPERATION MODE. ALSO, WHILE LIFTING OR LOWERING, THE “COUNTING” HEIGHT OF THE PLATFORMS CAN BE SEEN. THIS WILL GIVE THE USER A GOOD INDICATION OF HOW SYNCHRONOUS THE PLATFORMS ARE MOVING AND WHEN THE UNIT HAS CEASED MOVEMENT (FOR PARKING).

PARALLELOGRAM CONTROL INSTRUCTIONS:

BELOW IS A QUICK REFERENCE CHART FOR THE CONTROLS ON THE PANEL:

FUNCTION KEYS:

- F1: ACTIVATE AUXILIARY JACK HEIGHT
 (CAN ONLY BE ACTIVATED IN HOME POSITION)
- F2: DE-ACTIVATE AUXILIARY JACK STOP HEIGHT
 (CAN ONLY BE ACTIVATED IN HOME POSITION)
- F4: CLEARS ERROR FAULT AS NEEDED
- F8: USER SETTINGS
- F9: FACTORY SETTINGS
- F10: PASSWORD

OPERATOR PUSH BUTTONS:

- RAISE (BLACK): RAISES LIFT
- LOWER (RED): RAISES LIFT ~2 SECONDS TO CLEAR MECHANICAL LOCKS,
 THEN LOWERS LIFT
- PARK (AMBER): ONLY FUNCTIONS WHEN ILLUMINATED. LOWERS LIFT ONTO
 MECHANICAL LOCKS (AFTER ~2 SECOND DELAY)

DISCONNECT SWITCH:

DISCONNECTS POWER TO LIFT CONTROLS.
WARNING: POWER IS STILL “LIVE” TO BOTTOM OF DISCONNECT SWITCH WHEN IT IS OFF.
BEFORE SERVICING ANY ELECTRICAL COMPONENTS ON THIS LIFT, MAIN ELECTRICAL
FEED TO LIFT MUST BE DISCONNECTED AND LOCKED OUT.

MANUAL OVER-RIDE CONTROLS: (EMERGENCY LOWERING)
(LOCATED WITHIN CONSOLE ENCLOSURE)

- HAND PUMP: USED FOR RAISING LIFT OFF OF LOCKS IN CASE OF
 ELECTRICAL OUTAGE. MUST BE USED IN
 CONJUNCTION WITH DIRECTIONAL KNOB.
- DIRECTIONAL KNOB (BLK): DETERMINES WHICH PLATFORM RAISES WITH MANUAL PUMP.
- LEFT LOWERING KNOB (RED): LOWERS LEFT PLATFORM.
- RIGHT LOWERING KNOB (RED): LOWERS RIGHT PLATFORM.

SAFETY TIPS

PLEASE POST THE **AUTOMOTIVE LIFT SAFETY TIPS CARD**, (A COPY IS INCLUDED IN THE PARTS BOX) WHERE THEY WILL BE CONSTANTLY REMINDED TO YOUR LIFT OPERATOR. FOR INFORMATION SPECIFIC TO THE LIFT, ALWAYS REFER TO THE MOHAWK MANUAL.

- INSPECT YOUR LIFT DAILY. NEVER OPERATE IT IF IT MALFUNCTIONS OR IF IT HAS BROKEN OR DAMAGED PARTS. REPAIRS SHOULD BE MADE WITH ORIGINAL MOHAWK PARTS.
- OPERATING CONTROLS ARE DESIGNED TO CLOSE WHEN RELEASED. DO NOT BLOCK OPEN OR OVERRIDE THEM.
- NEVER OVERLOAD YOUR LIFT BEYOND STATED LIFTING CAPACITY. RATED CAPACITY IS SHOWN ON NAMEPLATE AFFIXED TO THE LIFT.
- ONLY TRAINED AND AUTHORIZED PERSONNEL SHOULD DO POSITIONING OF VEHICLE AND OPERATION OF THE LIFT.
- DO NOT ALLOW CUSTOMERS OR BY- STANDERS TO OPERATE THE LIFT OR TO BE IN A LIFTING AREA DURING ITS OPERATION. ONLY PROPERLY TRAINED PERSONNEL SHOULD BE ALLOWED TO OPERATE LIFT.
- NEVER RAISE A VEHICLE WITH PERSONS INSIDE.
- ALWAYS KEEP LIFT AREA FREE OF OBSTRUCTIONS, DEBRIS, GREASE, AND OIL.
- PERFORM THE PRE-OPERATION CHECK LIST, PER INSTRUCTIONS, BEFORE RAISING VEHICLE TO DESIRED HEIGHT.
- BEFORE DRIVING VEHICLE ONTO THE LIFT, ENSURE THAT THE PLATFORMS ARE FULLY LOWERED (ZERO READINGS ON CONTROL DISPLAY FOR RIGHT AND LEFT PLATFORM ELEVATIONS).
- LOAD VEHICLE ON LIFT CAREFULLY. ONCE VEHICLE IS CENTERED ON PLATFORMS, SET THE BRAKES AND POSITION THE WHEEL CHOCKS AROUND THE TIRES. RAISE LIFT TO DESIRED WORKING HEIGHT, THEN PARK LIFT. VEHICLE IS NOW READY TO BE SERVICED.
- NOTE THAT WITH SOME VEHICLES, THE REMOVAL OR INSTALLATION OF COMPONENTS MAY CAUSE A CRITICAL SHIFT IN THE CENTER OF GRAVITY, AND RESULT IN RAISED VEHICLE INSTABILITY. REFER TO THE VEHICLE MANUFACTURER’S SERVICE MANUAL FOR RECOMMENDED PROCEDURES WHEN VEHICLE COMPONENTS ARE REMOVED.
- BEFORE LOWERING LIFT, BE SURE TOOL TRAY’S, STANDS, ETC. ARE REMOVED FROM UNDER VEHICLE.
- BEFORE REMOVING VEHICLE FROM THE LIFT AREA, ENSURE THAT PLATFORMS ARE FULLY LOWERED AND WHEEL CHOCKS ARE REMOVED FROM TIRES.

PRE - OPERATION CHECK LIST

TRAINED OPERATOR

- THE OPERATOR MUST BE FULLY TRAINED AND QUALIFIED TO SAFELY AND EFFECTIVELY OPERATE THIS EQUIPMENT OF THIS SPECIFIC MAKE AND MODEL.

ABSENCE OF OBSTRUCTIONS

- THE TOTAL WORK AREA MUST BE FREE OF ANY AND ALL OBSTRUCTIONS AND BE GENERALLY CLEAN. (FREE OF OIL AND DEBRIS)

VISUAL INSPECTION

- THOROUGHLY INSPECT THE UNIT WITH A TRAINED EYE, NOTING ANY PROBLEM AREAS. INSPECT THE FLOOR AND THE ANCHORING FASTENERS AS WELL. REPORT ANY QUESTIONABLE ITEMS.

NO LOAD PERFORMANCE CHECK

- ALL MECHANICAL SAFETIES OPERATE PROPERLY AND CONSISTENTLY.
- NO EXTERNAL FLUID LEAKS.
- NO BLEED DOWN.
- EFFORTLESS AND SIMULTANEOUS MOVEMENT.
- LEVEL LIFTING.
- CONTROLS FUNCTION PROPERLY.
- ALL SAFETY MECHANISMS FULLY FUNCTIONAL.

PREVIOUS DAY' S OPERATION REPORT

- VERIFY WITH SUPERVISOR THAT THERE WAS NO PROBLEMS EXPERIENCED THE PREVIOUS DAY. IF THERE WERE ANY PROBLEMS, VERIFY THAT ALL NECESSARY REPAIRS HAVE BEEN COMPLETED.

LIFTING PROCEDURES

PRE-OPERATION CHECK

- PERFORM PRE-OPERATION CHECK LIST ITEM BY ITEM.

POSITION VEHICLE

- DRIVE THE VEHICLE ONTO THE LIFT ENSURING IT IS CENTERED LENGTHWISE AND WIDTHWISE ON THE PLATFORMS. **SEE ALI/LP-GUIDE.**

-- WARNING --

FAILURE TO PLACE THE VEHICLE'S CENTER OF GRAVITY OVER THE LIFTS PLATFORM CENTERLINE MAY CAUSE SERIOUS INJURY TO PERSONNEL AND DAMAGE TO EQUIPMENT.

- SET BRAKES ON VEHICLE AND POSITION WHEEL CHOCKS AROUND TIRES.

-- WARNING --

DO NOT PLACE WHEELS , WHEEL CHOCKS, OR WING PLOW SHOES ON FLIP PLATES. FLIP PLATES MUST BE FREE TO PIVOT DURING THE WHOLE LIFTING CYCLE. IF THESE PLATES ARE OBSTRUCTED, SERIOUS INJURY TO PERSONNEL AND DAMAGE TO EQUIPMENT MAY OCCUR.

TO RAISE

TO LOWER

- ENGAGE THE UP-BUTTON ON THE CONTROL PANEL.
- RAISE VEHICLE TO THE DESIRED WORKING HEIGHT.
- LOWER THE UNIT ONTO THE MECHANICAL SAFETIES USING THE PARK BUTTON. (NOTE, THIS BUTTON WILL FUNCTION ONLY WHEN LIT) CONTINUE PRESSING BUTTON UNTIL CONTROL DISPLAY INDICATES ZERO MOVEMENT.
- INSPECT THE LIFTING AREA TO INSURE THAT ALL PERSONNEL AND DEBRIS HAVE BEEN CLEARED FROM THE LIFTING AREA.
- ENGAGE THE DOWN-BUTTON ON THE CONTROL PANEL. (LIFT WILL RAISE APPROXIMATELY 2 SECONDS UNTIL THE LOCKS ARE RELEASED, THEN CONTINUE TO LOWER)
- LOWER UNIT TO THE DESIRED WORKING HEIGHT.
- IF WORK IS COMPLETE, CONTINUE LOWERING THE UNIT UNTIL BOTH PLATFORMS ARE FULLY LOWERED AND THE CONTROL SCREEN READS ZERO FOR BOTH PLATFORM ELEVATIONS.

MAINTENANCE PROCEDURES

QUALIFIED MAINTENANCE PERSONNEL ONLY

DAILY

- PERFORM THE PRE-OPERATION CHECK LIST.
- REPORT ANY AND ALL EQUIPMENT MALFUNCTIONS IMMEDIATELY.
- CLEAN ALL MOVING PARTS. IF OXIDIZATION IS OCCURRING USE A LIGHT LUBRICANT. (WD - 40 OR EQUIVALENT)
- KEEP AREA AROUND THIS EQUIPMENT FREE OF DIRT, SAND, WATER, ETC. ENSURE THAT WATER DRAINS AROUND LIFT ARE NOT CLOGGED.

WEEKLY

- PERFORM THE DAILY OPERATION CHECK LIST.
- WIPE CLEAN, THE CYLINDER RODS TO REMOVE ANY WEEPING OIL AND DUST.
- VERIFY FLUID LEVEL. WITH THE UNIT FULLY LOWERED, THE FLUID LEVEL WILL BE MIDRANGE ON THE FLUID LEVEL GAUGE. USE DEXRON III AS REPLACEMENT FLUID.
- ENSURE FLIP PLATES ROTATE FREELY AND HAVE SMOOTH OPERATION.
(DO NOT USE GREASE)

MONTHLY

- INSPECT ALL HYDRAULIC COMPONENTS FOR LEAKS, DEFORMATION, WEAR OR CORROSION.
 - TIGHTEN ALL FASTENERS AND HYDRAULIC FITTINGS AS REQUIRED.
1. ALL O-RING BOSS (ORB) FITTINGS ARE TO BE TIGHTENED TO: 25-FOOT POUNDS TORQUE MINIMUM FOR #6 ORB AND 45-FOOT POUNDS TORQUE MINIMUM FOR #8 ORB.

2. ALL PIPE FITTINGS, IF LEAKING IS TO BE REMOVED, RE-SEALED, AND RE - INSTALLED. (SELECT - UNITE THREAD SEALANT OR EQUIVALENT ON FITTING THREADS)

- INSPECT ANCHOR CONDITIONS FOR ANY POSSIBLE CORROSION AND INSPECT THE FLOOR FOR ANY SIGNS OF FATIGUE OR FRACTURES.

SEMI- ANNUAL TRAINING

- QUALIFY / RE-QUALIFY ALL PERSONNEL IN THE SAFE OPERATION OF THIS UNIT.
- VERIFY ALL FASTENERS TO PROPER TORQUE:
FLIP PLATE BOLTS TO 100 FT-LB
PIN RETAINING BOLTS TO 100 FT-LB
ANCHORS (SEE ANCHOR SPECIFICATION SECTION)
- LUBRICATE ALL PIVOT PINS WITH A LIGHT LUBRICANT (WD-40 OR EQUIVALENT) ENSURING SMOOTH MOTION. DO NOT USE GREASE.

ANNUALLY

- REPLACE THE HYDRAULIC FLUID. ALWAYS USE A CLEAN FUNNEL AND FILTER. USE DEXRON III HYDRAULIC FLUID.
- INSPECT ALL LOAD PIVOT PINS FOR UNUSUAL OR EXCESSIVE WEAR. (REPLACE IF NEEDED, CONTACT MOHAWK PARTS DEPARTMENT)
- PERFORM THE DAILY, WEEKLY, AND MONTHLY MAINTENANCE PROCEDURES.

MANUAL OVERRIDE CONTROLS

QUALIFIED MAINTENANCE PERSONNEL ONLY

--- WARNING ---

THE MANUAL OVERRIDE CONTROLS ARE SUPPLIED TO THE USER IN THE EVENT OF POWER OUTTAGE OR OUT OF LEVEL CONDITIONS AND ARE NOT MEANT TO BE ROUTINELY USED TO CORRECT LIFT MALFUNCTIONS. IF THE LIFT EXPERIENCES MALFUNCTIONS OR FAULTS, CONTACT MOHAWK RESOURCES SERVICE DEPARTMENT.

WHEN YOU MAY NEED TO USE THESE CONTROLS:

- WHEN THE LIFT GIVES AN OUT OF PARALLEL FAULT AND YOU WISH TO RELEVEL THE PLATFORMS
- DURING A POWER OUTAGE, YOU WILL NEED TO LIFT THE PLATFORMS OFF THE LOCKS AND LOWER THE LIFT TO THE FLOOR.
- ONE PLATFORM DOES NOT OR WAS NOT FULLY LOWERED TO HIT THE HOME SWITCH AND YOU MAY WANT TO LOWER IT MANUALLY TO RESYNCHRONIZE THE PLATFORMS.

WHAT THESE CONTROLS DO:

(LOCATED WITHIN CONSOLE ENCLOSURE. SEE FIGURE ENCLOSED)

HAND PUMP:	USED FOR RAISING LIFT OFF OF LOCKS IN CASE OF ELECTRICAL OUTAGE. MUST BE USED IN CONJUNCTION WITH DIRECTIONAL KNOB.
DIRECTIONAL KNOB (BLK):	DETERMINES WHICH PLATFORM RAISES WITH MANUAL PUMP.
LEFT LOWERING KNOB (RED):	LOWERS LEFT PLATFORM.
RIGHT LOWERING KNOW (RED):	LOWERS RIGHT PLATFORM.

AIR BYPASS PROCEDURE:

(LOCATED WITHIN CONSOLE ENCLOSURE. SEE FIGURE ENCLOSED)

DURING MANUAL DESCENT OF LIFT, YOU MUST OVERRIDE THE LOCKS. TO DO THIS:

- TURN OFF THE AIR REGULATOR
- REMOVE BOTH YELLOW AIR CYLINDER TUBES FROM MANIFOLD BLOCK (SEE FIGURE)
- REMOVE SHORT JUMPER TUBE FROM RIGHT HAND SIDE OF REGULATOR BLOCK (SEE FIGURE)
- REPOSITION AIR CYLINDER TUBES TO RIGHT HAND SIDE OF REGULATOR BLOCK
- TURN ON THE AIR REGULATOR (LOCKS SHOULD DISENGAGE NOW IF LIFT RAISED HIGH ENOUGH ABOVE LOCK POSITION)
- WHEN COMPLETE WITH MANUAL ADJUSTMENTS, RETURN ALL TUBES TO THEIR NORMAL POSITIONS.

TROUBLE SHOOTING

WARNING!

NEVER ATTEMPT TO LOOSEN HYDRAULIC FITTINGS, OR OVERRIDE SAFETY DEVICES IN AN ATTEMPT TO CORRECT A PROBLEM. ALL TESTS ARE TO BE PERFORMED WITH **NO** VEHICLE.

POSSIBLE CAUSE	SOLUTION
NOT RAISING	
NO AIR TO LOCKS	ENSURE THAT SUFFICIENT PNEUMATIC PRESSURE (60 PSI) IS PROVIDED TO CONSOLE. CONNECTION IS AT REGULATOR WITHIN CONSOLE.
UNIT OVERLOADED	REFER TO LIFT SPECIFICATIONS AND CHECK WEIGHT OF VEHICLE TO ENSURE THAT IT IS NOT OVERLOADING THE RATING OF THE LIFT UNIT.
PRESSURE RELIEF CONTAMINATION	REFER TO POWER UNIT SPECIFICATIONS. RELIEF VALVE MAY NEED TO BE ADJUSTED TO PROPER PRESSURE.. REMOVE AND CLEAN DEBRIS FROM VALVE ASSEMBLY IF NECESSARY.
INCORRECT VOLTAGE TO POWER UNIT.	REFER TO POWER UNIT SPECIFICATIONS. CONSULT AN ELECTRICIAN
REVERSE ROTATION ON MOTOR	SWAP INCOMING POWER FEEDS TO LIFT. MOTOR SHOULD ROTATE CLOCKWISE AS VIEWED FROM TOP OF MOTOR.
PLATFORMS OUT OF SYNCHRONIZATION	MANUALLY LOWER PLATFORMS UNTIL THEY ARE LEVELED AND RAISE AGAIN. PLATFORMS MUST BE WITHIN 100 COUNTS TO BE SYNCHRONIZED.
NOT LOWERING	
LIFT STOPPING TO REMIND YOU TO MOVE JACK TO END OF PLATFORM	ENSURE THAT JACK IS AT END OF PLATFORM WHERE POCKET IN FLOOR IS LOCATED (NOT APPLICABLE TO SURFACE). PRESS LOWER BUTTON AGAIN.
NO AIR TO LOCKS	ENSURE THAT SUFFICIENT PNEUMATIC PRESSURE (60 PSI) IS PROVIDED TO CONSOLE. CONNECTION IS AT REGULATOR WITHIN CONSOLE.
PNEUMATIC AIR LINE LEAKING	LISTEN FOR AIR LEAK AND REPAIR WHERE NEEDED
MECHANICAL LOCKS NOT DIS-ENGAGED	RAISE UNIT SLIGHTLY AND RE-PRESS THE LOWER BUTTON TO DISENGAGE MECHANICAL LOCKS.
LOSS OF ENCODER SIGNAL	VERIFY THAT BOTH ENCODERS ARE RECEIVING A SIGNAL. WHILE LOOKING AT DISPLAY SCREEN, HAVE SOMEONE STOMP ON BOTH PLATFORMS AND CONFIRM THAT COUNT VALUES ARE CHANGING.
REED SWITCHES ON AIR LOCK CYLINDERS OUT OF POSITION AND NOT DETECTING THAT MECHANICAL LOCKS ARE DISENGAGED PROPERLY	REFER TO DIAGRAM IN BACK OF MANUAL FOR PROPERLY ADJUSTING THE POSITION OF THE "LOCKS OPEN" REED SWITCHES.
PLATFORMS OUT OF SYNCHRONIZATION	RAISE UNIT TO FULL HEIGHT TO EQUALIZE. THEN LOWER OR USE MANUAL LOWERING VALVES TO EQUALIZED, THEN LOWER WITH BUTTON
DEBRIS IN POSTS (TOOLS ETC.)	REMOVE DEBRIS AND CLEAN UNIT
OBSTRUCTION UNDER VEHICLE OR LIFT	REMOVE OBSTRUCTION.
RAISING/LOWERING UNEVEN	
ENCODERS NOT SYNCHRONIZED	LOWER LIFT COMPLETELY AND PRESS BOTH HOME SWITCHES TO ZERO LIFT AT BOTTOM
HOME SWITCHES NOT ADJUSTED PROPERLY	ENSURE THAT WHEN LIFT IS COMPLETELY LOWERED, BOTH HOME SWITCHES ZERO LIFT ON BOTH SIDES.
FAULTY PROPORTIONAL VALVE	REPLACE FAULTY COMPONENT. CONTACT MOHAWK SERVICE DEPARTMENT.

TROUBLE SHOOTING, CONT.

POSSIBLE CAUSE	SOLUTION
NOT PARKING (LIGHT DOES NOT ILLUMINATE)	
FAULTY LIGHT BULB	REMOVE BUTTON CASING AND CHECK BULB TO VERIFY IF IT IS DEFECTIVE. REPLACE WITH 24 VDC BULB.
REED SWITCHES ON AIR LOCK CYLINDERS OUT OF POSITION AND NOT DETECTING THAT MECHANICAL LOCKS ARE ENGAGED PROPERLY.	REFER TO DIAGRAM IN BACK OF MANUAL FOR PROPERLY ADJUSTING THE POSITION OF THE "LOCKS CLOSED" REED SWITCHES.
LIFT NOT IN POSITION WHERE ALL LOCKS ENGAGED.	RAISE LIFT UNTIL "CLUNK" IS HEARD FROM ALL LOCKS. ONCE ALL LOCKS DROP IN TO ENGAGE, LIGHT SHOULD COME ON AND ALLOW PARKING OF THE LIFT.
HYDRAULIC LEAKS	
CYLINDER	THOROUGHLY CLEAN THE CYLINDER. VERIFY LEAK ORIGIN. FITTINGS ARE TO BE TIGHTENED PER SPECIFICATIONS
BAD FLARE OR FITTING	REMOVE THE HYDRAULIC LINE AND INSPECT FLAIR AND FITTING FOR DEFORMATION. REPLACE IF NEEDED.
BAD O-RING (O-RING TYPE FITTINGS)	CHANGE O-RING
LOOSE PIPE FITTING	REMOVE, RESEAL, AND RE-INSTALL FITTING. SEAL ALL PIPE FITTING CONNECTIONS WITH THREAD SEALANT MOHAWK PART # 601-610-002 NOTE: DO NOT USE TEFLON TAPE.

TROUBLE SHOOTING, CONT.

CONTROL DISPLAY ERROR MESSAGES	
MESSAGE:	POSSIBLE RESOLUTION:
LOCK LIFT NOT ALLOW – LOCKS NOT CLOSED	<ol style="list-style-type: none"> 1. LIFT IS NOT ALLOWED TO PARK ON LOCKS UNLESS COMPUTER DETECTS THAT ALL LOCKS ARE CLOSED. IF ANY SINGLE LOCK IS NOT CLOSED, THIS ERROR WILL OCCUR. TRY RAISING AND PARKING AGAIN. 2. IF ERROR RECURS, ADJUSTMENT TO “LOCKS CLOSED” REED SWITCHES MAY BE NECESSARY (SEE FIGURE IN BACK OF MANUAL). 3. CHECK THAT REED SWITCH CABLE CONNECTIONS ARE SECURE TO TERMINAL STRIP IN ENCODER BOX AND CONTROL PANEL.
F4 – TO RESET FAULT – LOW AIR FAULT	<ol style="list-style-type: none"> 1. AIR SUPPLY TO LIFT IS NOT PRESENT OR TOO LOW OF PRESSURE (NEED 80 PSI MINIMUM). PRESS F4 TO CLEAR MESSAGE WHEN AIR IS OBTAINED. 2. CHECK THAT AIR REGULATOR WITHIN CONSOLE IS SET TO AT LEAST 80 PSI. RESET PRESSURE AND PRESS F4 ON PANEL TO CLEAR MESSAGE. 3. POSSIBLE FAULTY AIR PRESSURE SENSOR MAY NEED REPLACEMENT.
PUMP MOTOR – OVER LOAD	<ol style="list-style-type: none"> 1. DISCONNECT POWER FROM CONTROL CONSOLE. WAIT APPROXIMATELY 5 MINUTES FOR MOTOR OVERLOAD TO RESET. CONNECT POWER AGAIN AND RETRY LIFT. 2. DISCONNECT POWER FROM CONTROL CONSOLE. OPEN ELECTRICAL CONTROL BOX DOOR AND CHECK THAT OVERLOAD SETTING ON MOTOR STARTER IS SET TO MAXIMUM VALUE AND RESET BUTTON IS SET TO AUTO (NOT MANUAL). ENSURE THAT TRIP WINDOW ON OVERLOAD RELAY IS NOT SHOWING A COLORED TRIP STRIP. 3. LIFT IS POSSIBLY OVERLOADED. CHECK CAPACITY.
F4 - TO RESET FAULT – OUT OF PARALLEL	<ol style="list-style-type: none"> 1. THERE MAY HAVE BEEN A TEMPORARY DIFFERENTIAL OF ENCODER READINGS BETWEEN LEFT AND RIGHT SIDE THAT HAS CORRECTED ITSELF. PRESS F4 TO CLEAR ERROR. 2. USE MANUAL CONTROLS TO LEVEL LIFTING PLATFORMS. PRESS F4 TO CLEAR ERROR. 3. SPEED OF LIFT MAY BE TOO FAST FOR CONTROLS TO COMPENSATE FOR OFFSET LOADING ON LIFT. CONTACT MOHAWK RESOURCES FOR RESETTING SPEED SETTING.
F4 - TO RESET FAULT – LEFT/RIGHT STOP BAR TRIP	<ol style="list-style-type: none"> 1. TAPE SWITCH UNDER PLATFORM HAS DETECTED AN OBSTRUCTION AND HAS SHUT DOWN LIFT. REMOVE OBSTRUCTION AND PRESS F4 TO CLEAR MESSAGE. NOTE: THIS MESSAGE ONLY PRESENT WHEN LIFT PROVIDED WITH OPTIONAL TAPESWITCH (NOT STANDARD FEATURE).
F4 – TO RESET FAULT – LOSS OF LEFT/RIGHT ENCODER	<ol style="list-style-type: none"> 1. LIFT HAS EXPERIENCED NO MOTION FOR 2 SECONDS IN A PLATFORM AFTER CONTROLS HAVE BEEN PRESSED. IF LOWERING, POSSIBLE HANG UP ON LOCKS. RAISE AND LOWER AGAIN. IF RAISING, POSSIBLE LOSS OF POWER TO MOTOR. CHECK MOTOR OVERLOAD. 2. VERIFY THAT CONTROLS ARE RECEIVING SIGNAL FROM ENCODER. OBTAIN SCREEN ON CONTROL DISPLAY TO SHOW LIFT ELEVATIONS (LEFT, DIFFERENTIAL, RIGHT). STOMP ON EACH PLATFORM AND ENSURE THAT VALUES ON DISPLAY CHANGE. 3. ENSURE THAT ENCODER CABLE CONNECTIONS ARE SECURE TO TERMINAL STRIP IN ENCODER BOX AND IN CONTROL PANEL. 4. POSSIBLE FAULTY SOLENOID ON MANIFOLD NOT SHIFTING FLOW TO PLATFORM, RESULTING IN NO MOTION FOR 2 SECONDS AFTER CONTROLS PRESSED. CONTACT MOHAWK RESOURCES FOR REPLACEMENT PART. 5. POSSIBLE HYDRAULIC LEAK IN LEFT OR RIGHT PLATFORM HOSE. VERIFY AND TIGHTEN FITTING WHERE NECESSARY. MORE DEXRON III MAY NEED TO BE ADDED TO RESERVOIR IF LEAK FOUND.
F4 – TO RESET FAULT – LOCKS NOT OPEN	<ol style="list-style-type: none"> 1. LIFT IS NOT ALLOWED TO LOWER UNLESS COMPUTER DETECTS THAT ALL LOCKS ARE OPEN. IF ANY SINGLE LOCK IS NOT OPEN, THIS ERROR WILL OCCUR. TRY RAISING AND LOWERING AGAIN. 2. IF ERROR RECURS, ADJUSTMENT TO “LOCKS OPEN” REED SWITCHES MAY BE NECESSARY (SEE FIGURE IN BACK OF MANUAL). 3. CHECK THAT REED SWITCH CABLE CONNECTIONS ARE SECURE TO TERMINAL STRIP IN ENCODER BOX AND CONTROL PANEL.
WARNING: MOVE JACK TO END OF PLATFORM	<ol style="list-style-type: none"> 1. LIFT HAS STOPPED TO REMIND YOU TO MOVE JACK TO END OF PLATFORM WHERE CUTOUT IN FLOOR IS PROVIDED (FLUSH MOUNT LIFT ONLY). PRESS LOWER BUTTON AGAIN TO RESUME MOTION. 2. IF REMINDER NOT NEEDED (SURFACE LIFT), BRING LIFT TO HOME POSITION AND PRESS F2.

MOHAWK

PARALLELOGRAM

FIGURES & DIAGRAMS



MOHAWK RESOURCES LTD.

65 VROOMAN AVE.

AMSTERDAM, NY 12010

TOLL FREE: 1-800-833-2006

LOCAL: 1-518-842-1431

FAX: 1-518-842-1289

INTERNET: WWW.MOHAWKLIFTS.COM

E-MAIL: SERVICE@MOHAWKLIFTS.COM

WEJ-IT INSTALLATION



**DO NOT USE
IMPACT WRENCH**

USE HAND WRENCH ONLY

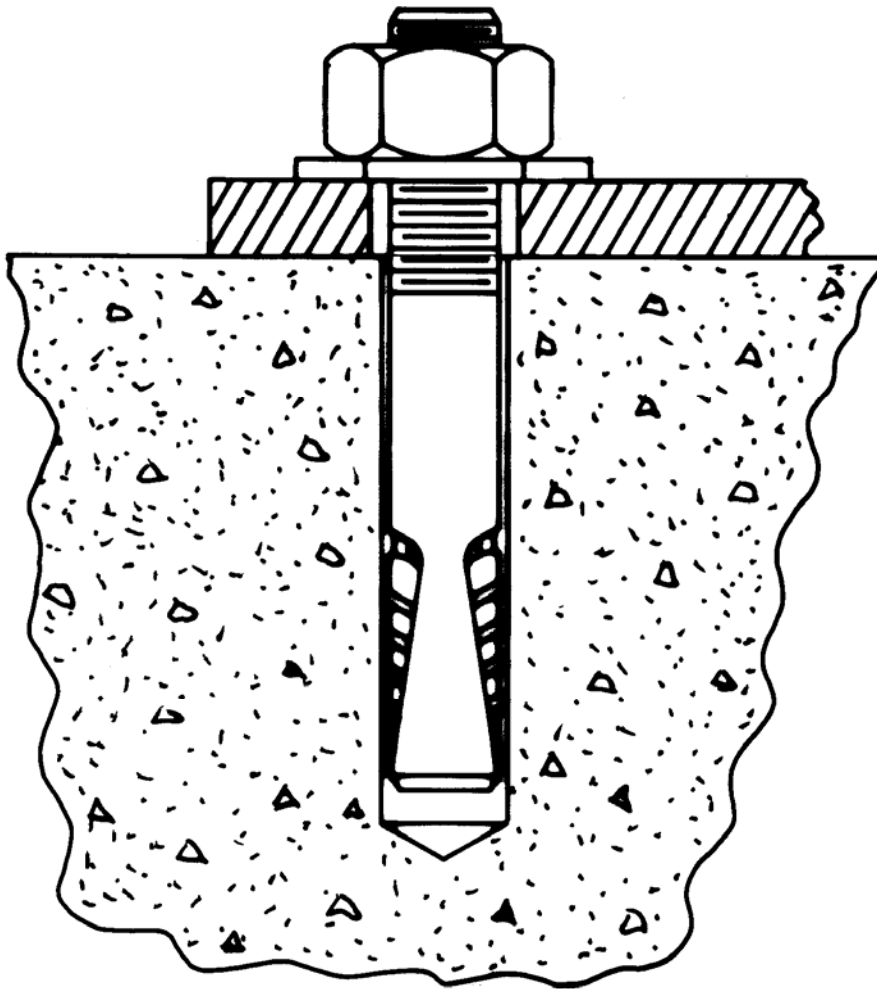
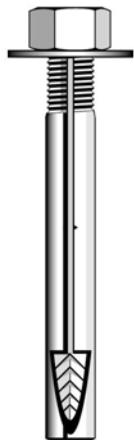


Figure 1



The Original **wej-it**® Wedge Anchors

KEY FEATURES/BENEFITS

- **Time-Tested, Proven Reliability.** An industry standard for over 45 years.
- **Fully Assembled and Ready to Use.** Unparalleled job-site convenience.
- **BOLT SIZE IS HOLE SIZE.**® Allows precision placement of equipment through pre-drilled holes.
- **Exclusive "Positive Wedge Connections."** Minimizes wedge loosening due to vibratory loads.



SPECIFICATIONS, APPROVALS AND LISTINGS

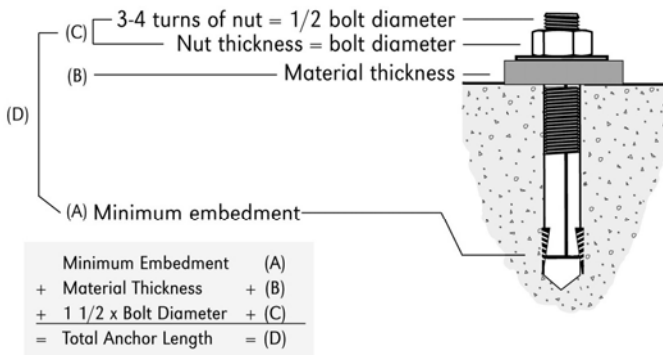
TYPE	
Zinc Plating	ASTM B-633, Type III, SCl
ICBO-ES	Report #1821
City of Los Angeles	#RR 24939
DOT	Please call Customer Service for specific information by state.
Federal Specifications	QQZ-325C, Type II, Class 3 (Clear Chromate added) FFS-325, Group II, Type 4, Class 1

MAXIMUM TENSILE AND SHEAR CAPACITY FOR STATIC LOADS

Anchor & Hole Size	LIMESTONE AGGREGATE			UNREINFORCED STONE AGGREGATE				CONCRETE		UNREINFORCED LIGHTWEIGHT (IDEALITE)			
	Embedment (in)	2000 psi Tension (lbs)	Shear (lbs)	Embedment (in)	3000 psi Tension (lbs)	Shear (lbs)	5000 psi Tension (lbs)	Shear (lbs)	7000 psi Tension (lbs)	Shear (lbs)	Embedment (in)	5000 psi Tension (lbs)	Shear (lbs)
3/4	•	•	•	3	11579	15537	19299	21000	27019	23103	3 1/2	17293	19050
3/4	•	•	•	7	15444	15537	25740	21000	36036	23103	•	•	•
1	•	•	•	5 1/2	16351	•	27252	33083	38153	35700	4 1/2	21616	31666
1	•	•	•	7	17837	•	29728	33083	41619	35700	•	•	•
Source	1			2				2		2			

Sources (available upon request): 1) University of Texas, Austin, TX (using new ICBO-ES testing criteria); 1993. 2) AA Engineers & Associates, Inc., Denver, CO; 1981.

LENGTH SELECTION GUIDE



EDGE DISTANCE AND SPACING REQUIREMENTS

Embedment (E) in Anchor Diameters (d)	Spacing	Edge Distance
E < 6d (shallow)	3.50E	1.75E
6d ≤ E ≤ 8d (standard)	2.00E	1.00E
8d < E (deep)	1.50E	0.75E

NOTES:

- Information provided only for the use of a qualified design engineer. Use of technical data by persons not qualified could cause serious damage, injury, or even death.
- Ultimate values shown. For static loads, use one-fourth of the maximum tensile and shear capacities for the recommended 4:1 safety factor.

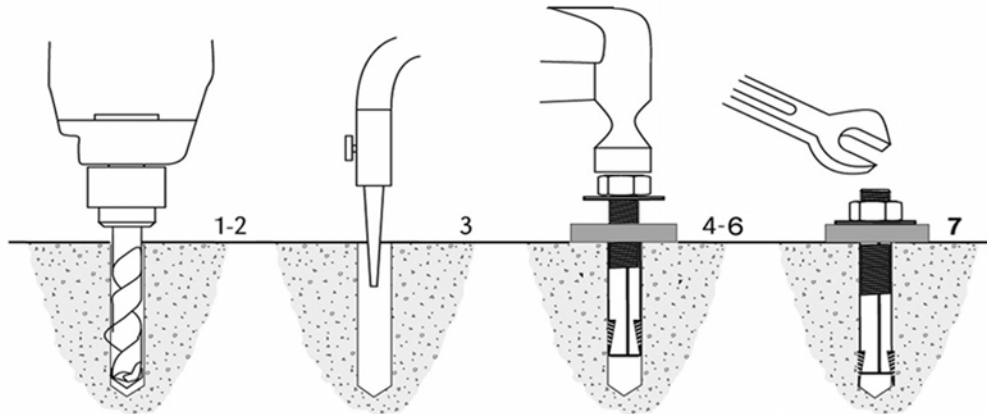
Figure 2

INSTALLATION INSTRUCTIONS - MOHAWK LIFTS

1. Drill the hole perpendicular to the work surface.* The drill bit diameter will be the same as the anchor diameter that you are installing. To assure full holding power, do not ream the hole or allow the drill to wobble. **Ensure all holes are a minimum of 6 inches away from any cracks, seams or defects in the concrete.**
2. Drill the hole 1 diameter deeper than the intended embedment of the anchor, but not closer than two 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. For ease of installation, make certain that the spear heads are located up against the wedge pockets.
5. Turn the nut onto the anchor until contact is made with the top of the spears and the bottom of the washer. Insert anchor into hole.
6. Tap anchor into hole with a 2 ½ lb. hammer until the washer rests solidly against the base plate.
7. Tighten the nut from 1 ½ to 3 turns past hand tight position to estimated installation torque below. Use of an Impact wrench for Installation of the anchor is NOT recommended.

TORQUE VALUES

Anchor Diameter (in)	Drill Bit Diameter (in)	Estimated Install Torque (ft-lb)
3/4	3/4	75
1	1	130



INSPECTION & MAINTENANCE INSTRUCTIONS

1. Verify torque on anchors to 70 ft-lbs for 3/4 anchors and 120 ft-lbs for 1” anchors for future/annual inspections.
- * Always wear safety glasses. Follow the drill manufacturer’s safety instructions. Use only solid carbide-tipped drill bits meeting ANSI B212.15 diameter standards as listed on back cover.

REV: 11/07

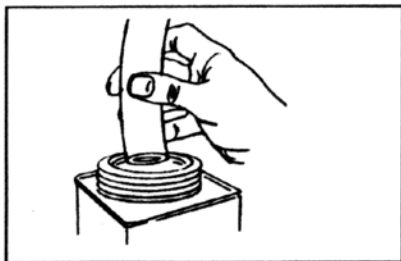
Figure 3

30 Series Fittings

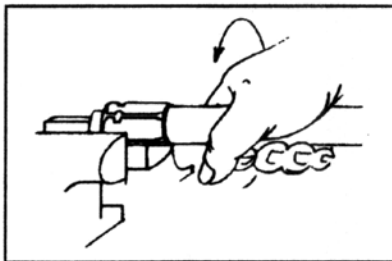
Use with 301, 301LT, and 381 hoses.

30 Series Hose Assembly Instructions

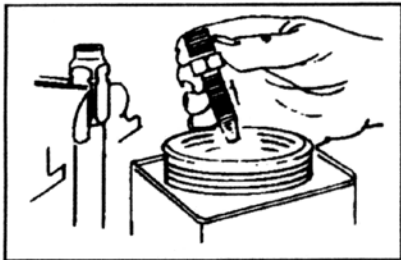
30 Series Hose Assembly Instructions



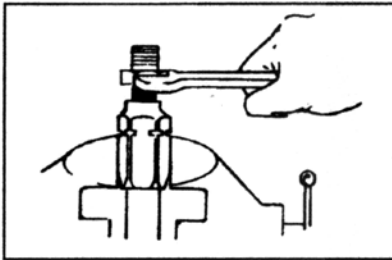
1. Identify Over All Length (OAL) of hose assembly and the Cut Off Allowance (COA) length of fitting(s) on hose ends by use of the fitting data table. Properly measure, mark and cut hose to desired length using fine tooth hacksaw or a cutoff machine. Dip hose end into Hoze-Oil or heavy oil.



2. Place socket in vice and screw in hose counter-clockwise until hose bottoms. Back hose out 1/2 turn.



3. Dip hose end of nipple into Hoze-Oil or other heavy oil up to the hex. When assembling fittings of 316 stainless steel lubricate the threads of both the socket and nipple with Dow Corning Molykote G-n or equivalent metal assembly lubricant.



4. Screw nipple assembly into socket using wrench on nipple hex until nipple hex shoulders against socket.

Note: Disassemble in reverse order.

IF YOU HAVE QUESTIONS CONCERNING THE PRODUCTS OR APPLICATION OF THE PRODUCTS CONTAINED IN THIS CATALOG, PLEASE CALL:

PARKER HOSE PRODUCTS DIVISION - TECHNICAL SERVICES DEPARTMENT

PHONE: 216 / 943-5700

FAX: 216 / 943-3129

www.parkerhose.com

+ Non-Standard



B-197

Hose Products Division
Parker Hannifin Corporation
Wickliffe, Ohio
www.parkerhose.com

Figure 4

PARALLELOGRAM SHIMMING (END VIEW OF PLATFORMS, SHOWN)

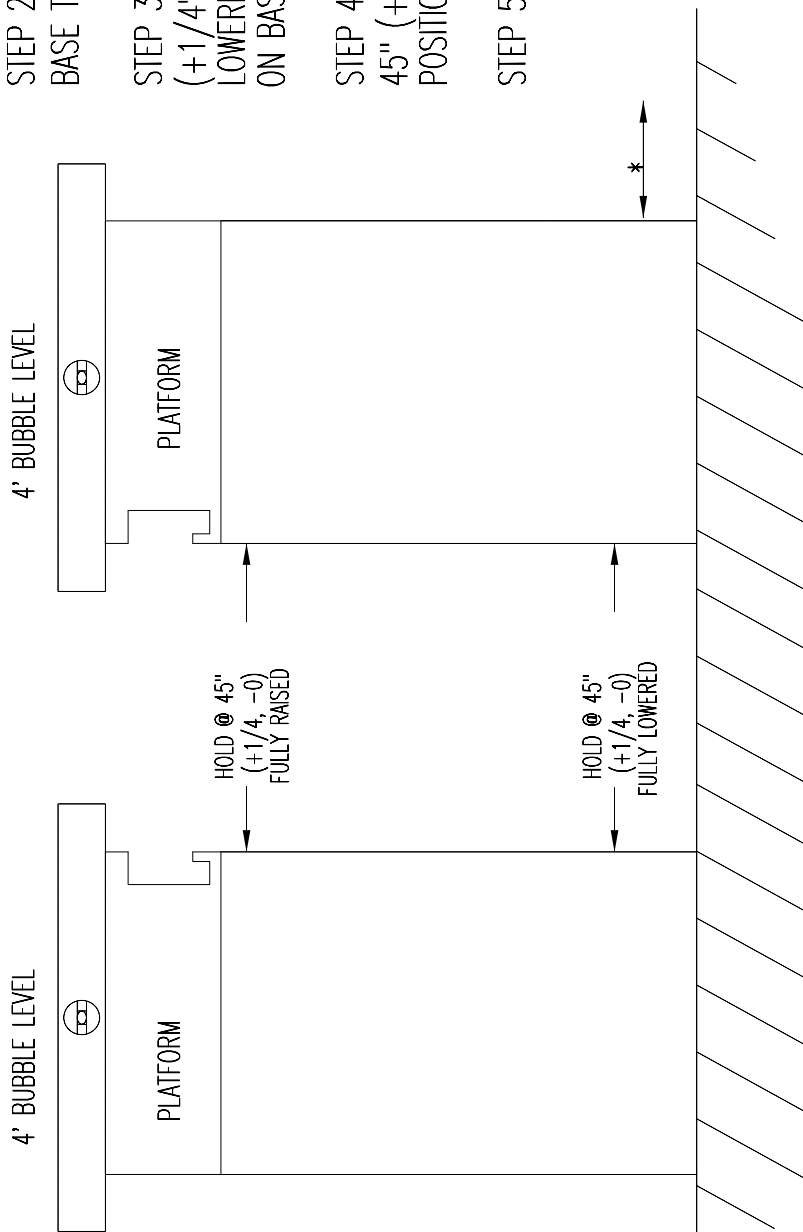
STEP 1: POSITION TRACKS APPROXIMATELY 45" INSIDE DIMENSION AT FULLY LOWERED POSITION.

STEP 2: RAISE TRACK FULLY & SHIM UNDER BASE TO LEVEL WITH 4' BUBBLE LEVEL.

STEP 3: SIDE SHIFT BASES TO ACHIEVE 45" (+1/4", -0") INNER DIMENSION AT RAISED & LOWERED POSITION. WHEN SIDE SHIFTING, PUSH ON BASE, NOT PLATFORM. *

STEP 4: VERIFY TRACKS ARE LEVEL & SET AT 45" (+1/4", -0") FULLY RAISED & LOWERED POSITION.

STEP 5: ANCHOR LIFT TO FLOOR.



FILE: MAN3001
DATE: 3/2003

Figure 5

PULLING HOSE THRU CONDUIT TIP

FILE: MAN3009

DATE: 3/2003

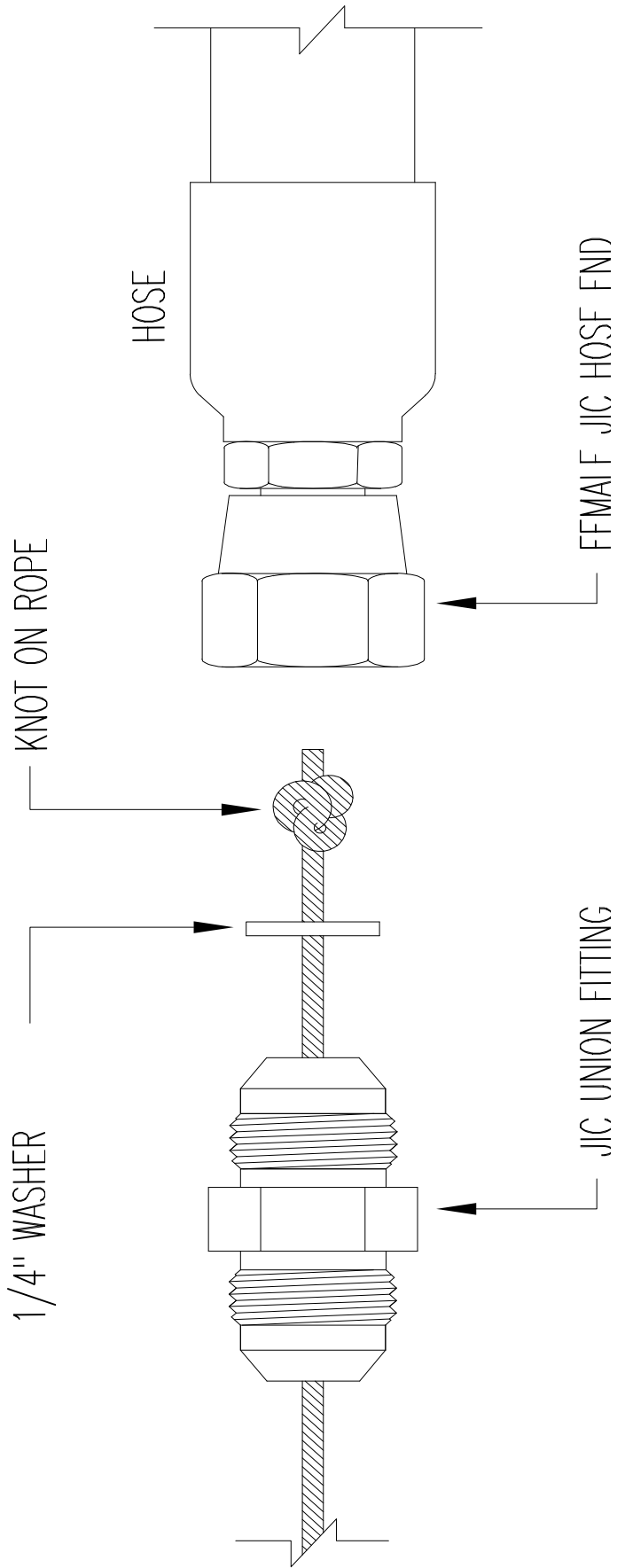
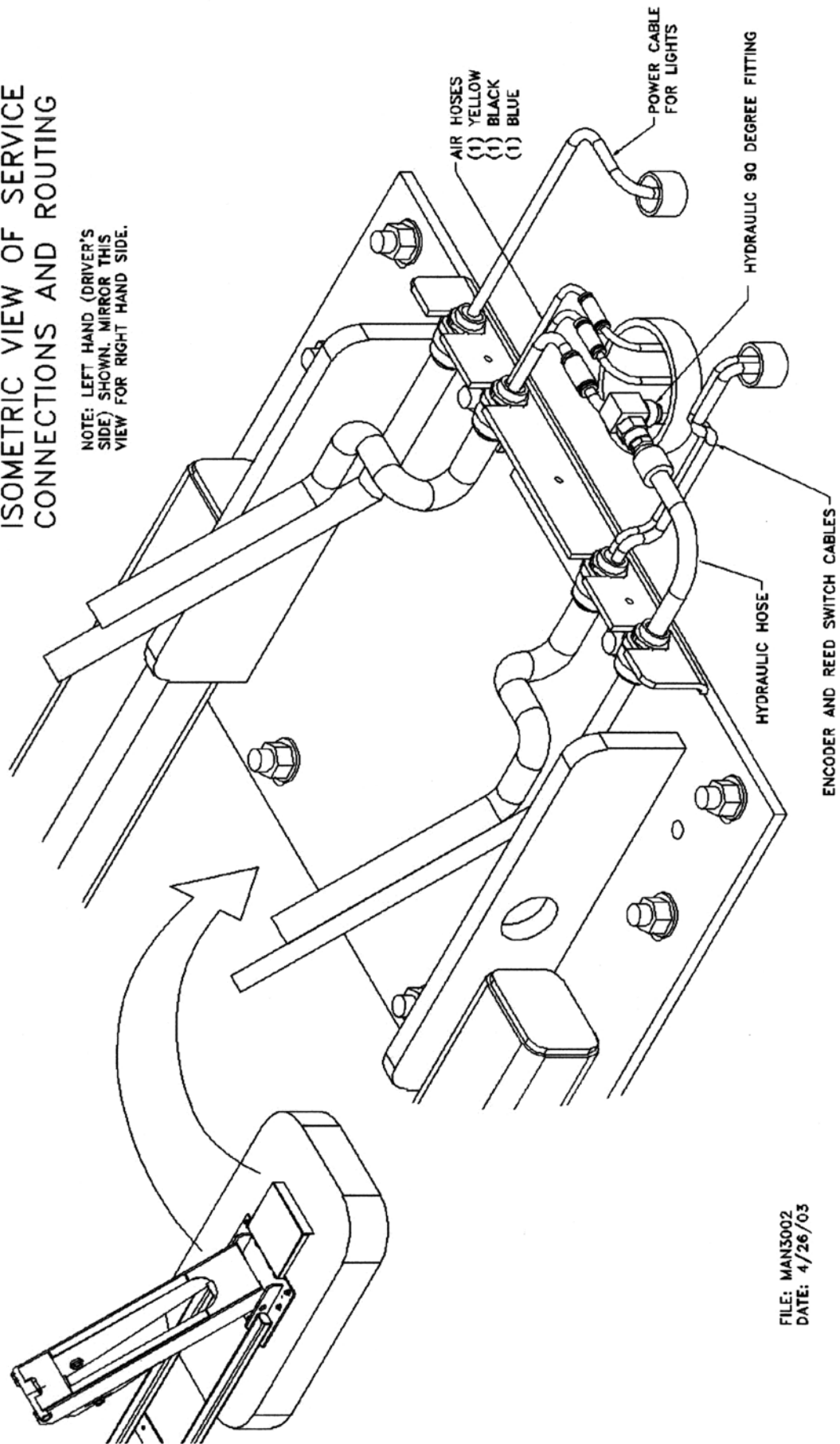


Figure 6

ISOMETRIC VIEW OF SERVICE CONNECTIONS AND ROUTING

NOTE: LEFT HAND (DRIVER'S SIDE) SHOWN, MIRROR THIS VIEW FOR RIGHT HAND SIDE.



FILE: MAN3002
DATE: 4/26/03

Figure 7

CONSOLE CONNECTIONS:

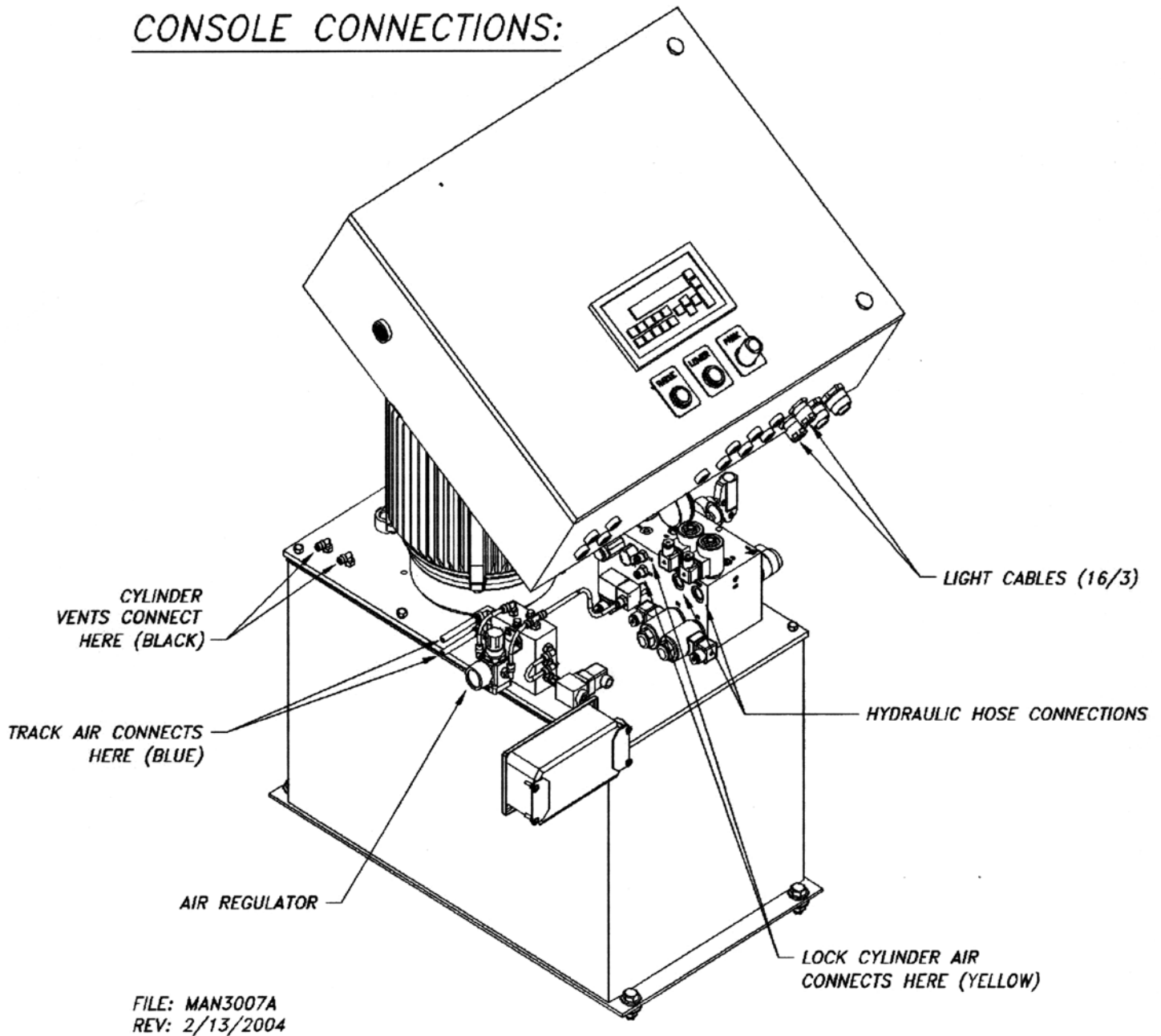
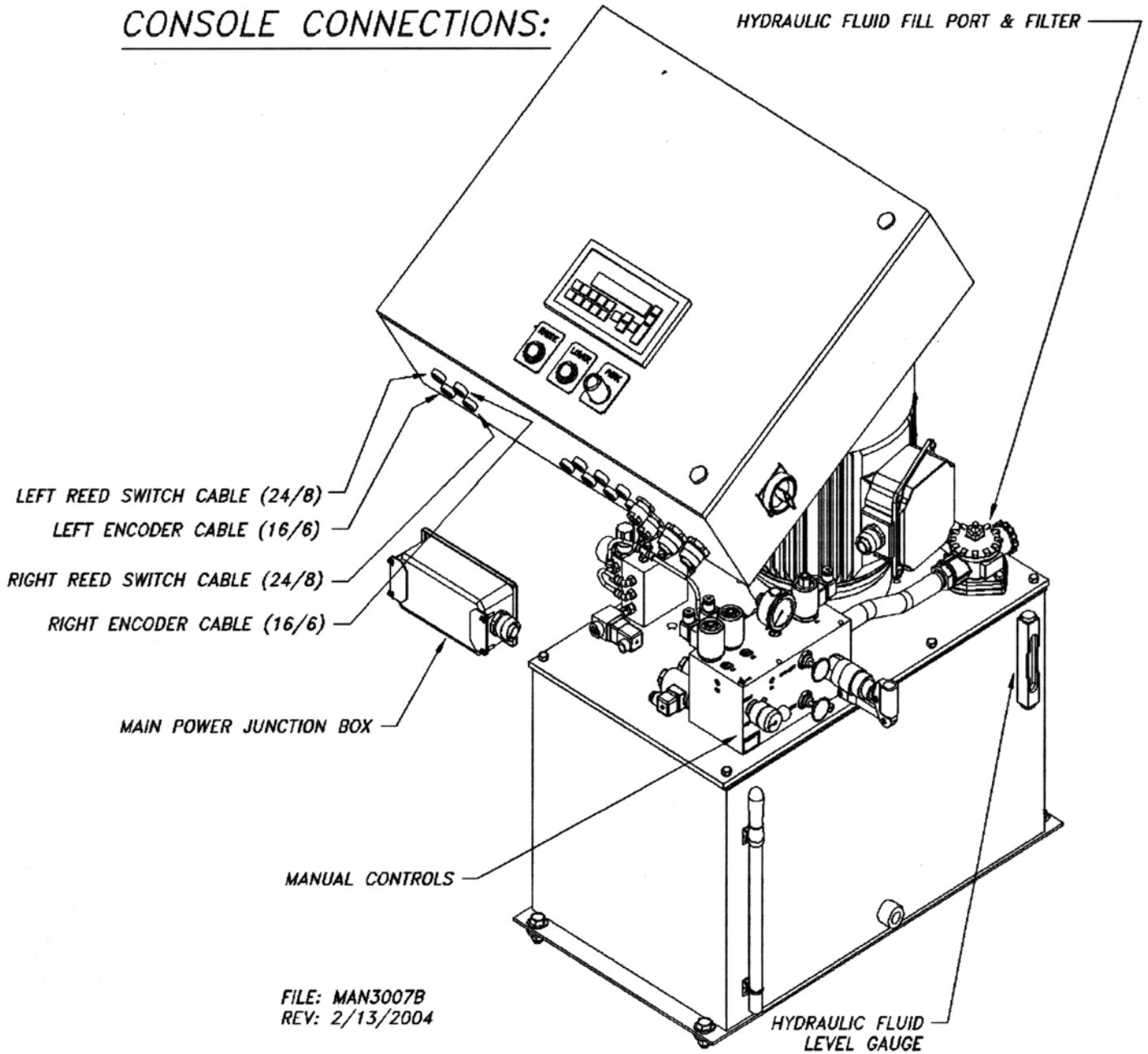


Figure 8

CONSOLE CONNECTIONS:

HYDRAULIC FLUID FILL PORT & FILTER



FILE: MAN3007B
REV: 2/13/2004

Figure 9

MOHAWK MODEL PARALLELOGRAM

CONTROL PANEL ENCLOSURE

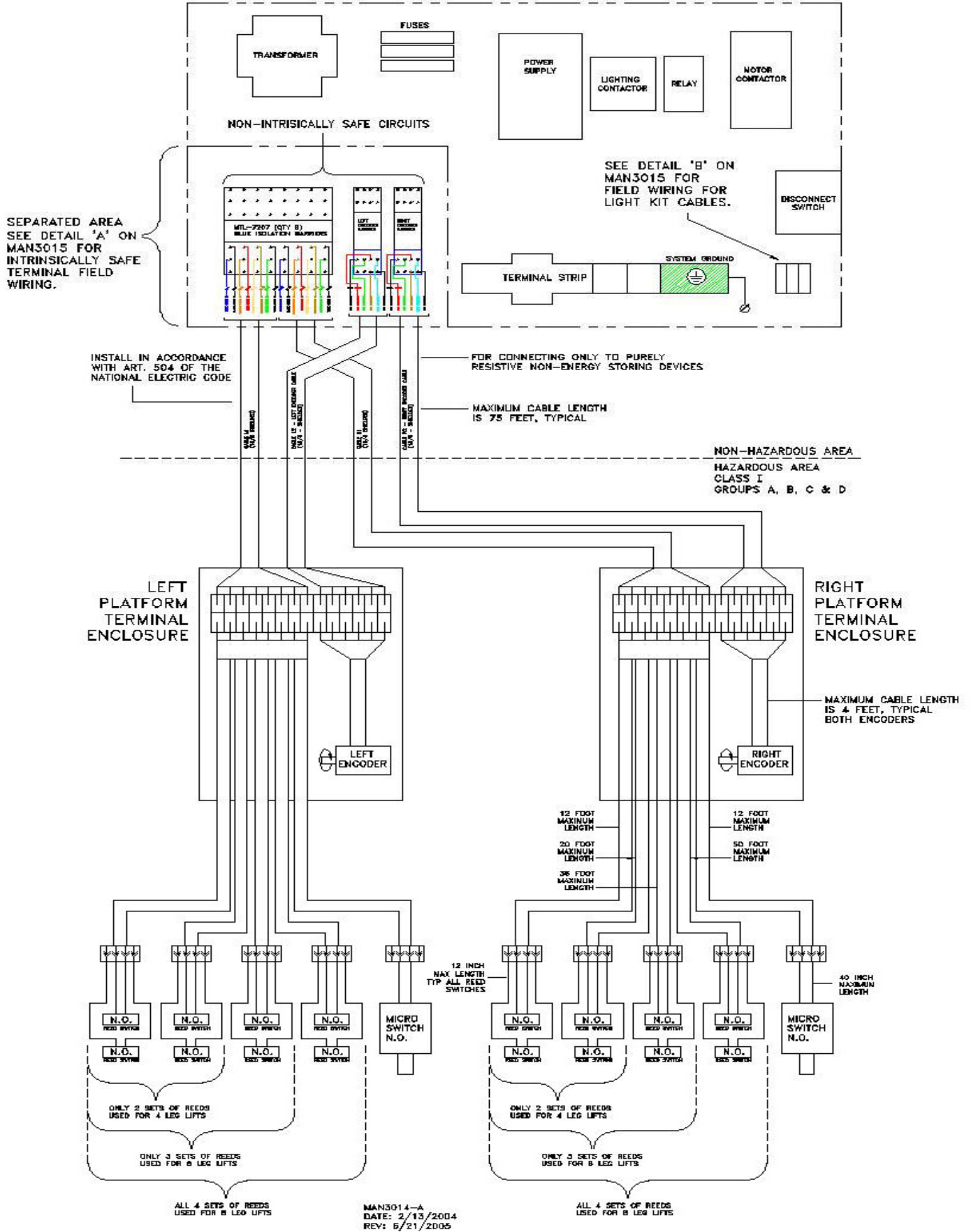


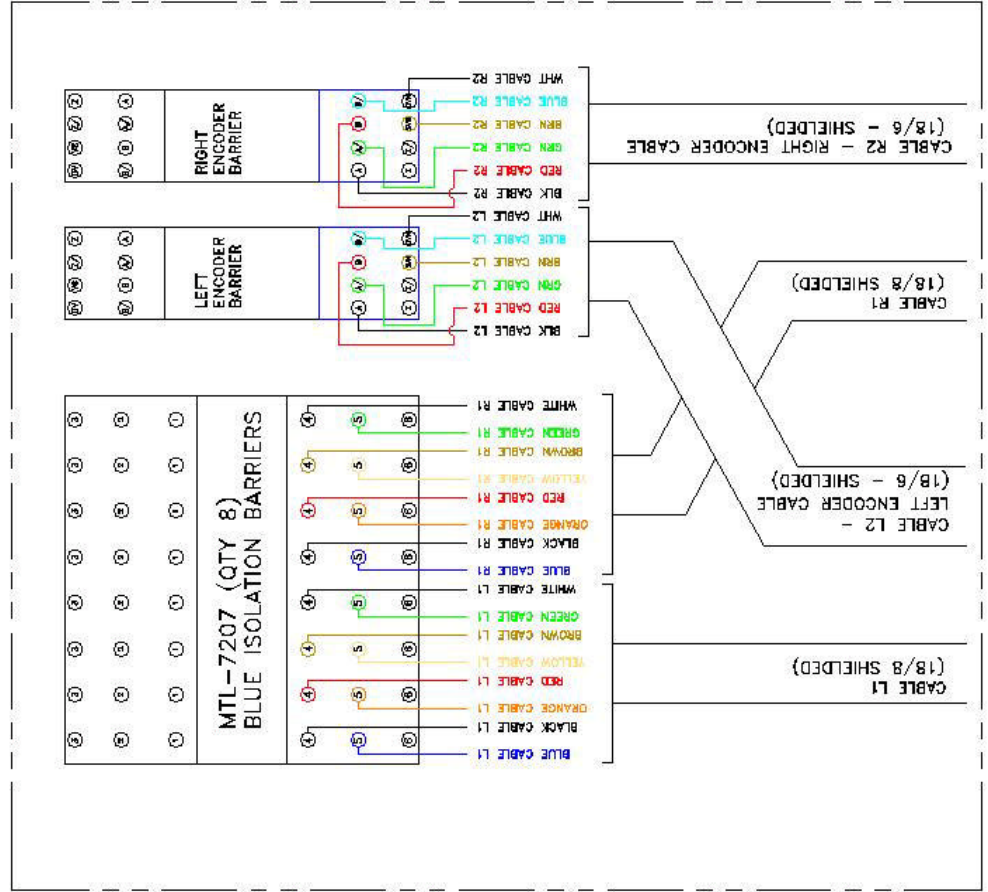
Figure 10

CONTROL ENCLOSURE ELECTRICAL FIELD WIRING CONNECTIONS

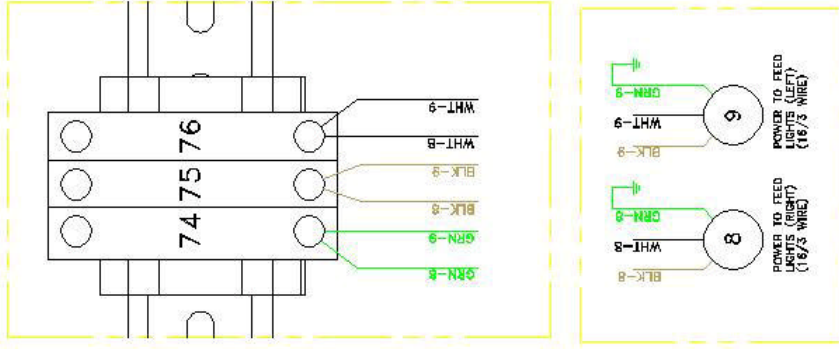
DETAIL 'A'
INTRINSICALLY SAFE
TERMINAL FIELD WIRING.

NON-INTRINSICALLY
SAFE CIRCUITS

INTRINSICALLY
SAFE CIRCUITS



DETAIL 'B'
TRACK LIGHT
CABLE WIRING.



MAN3015-A
DATE: 2/13/2004
REV: 6/21/2005

Figure 11

SHOWN FOR LEFT SIDE ONLY (4 LEG)

REV:
6-21-2005

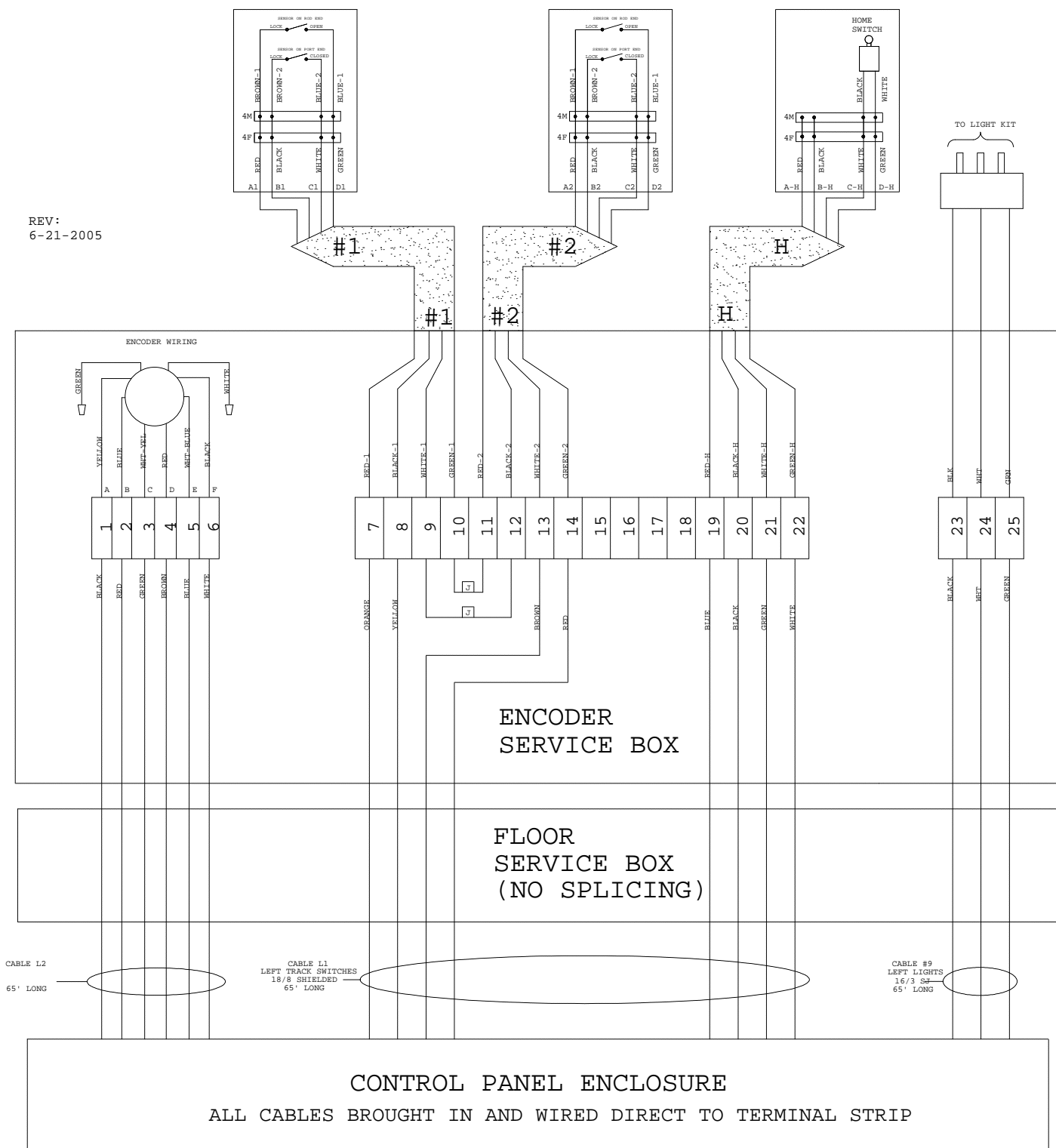


Figure 12

SHOWN FOR LEFT SIDE ONLY (6 LEG)

REV:
6-21-2005

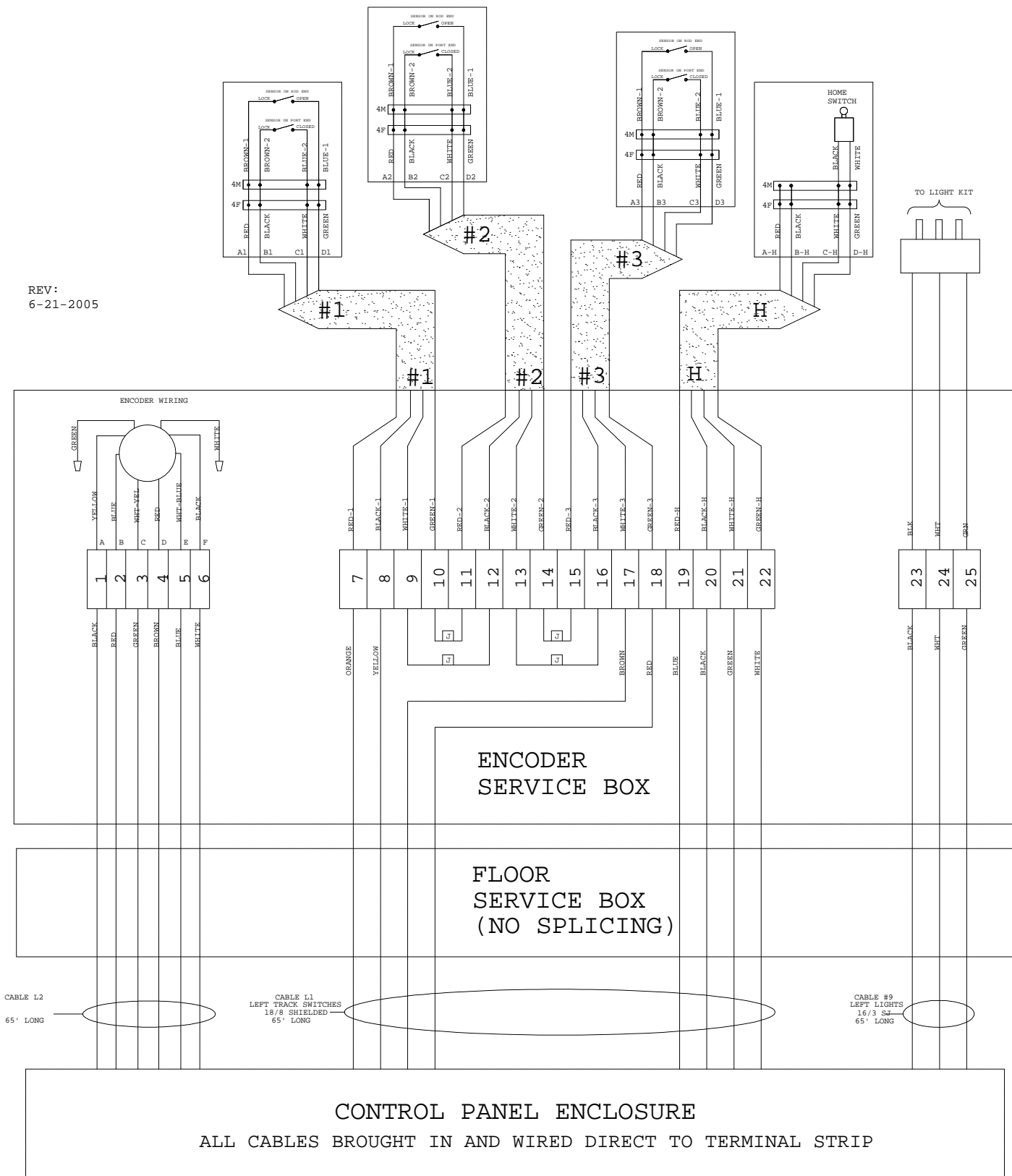
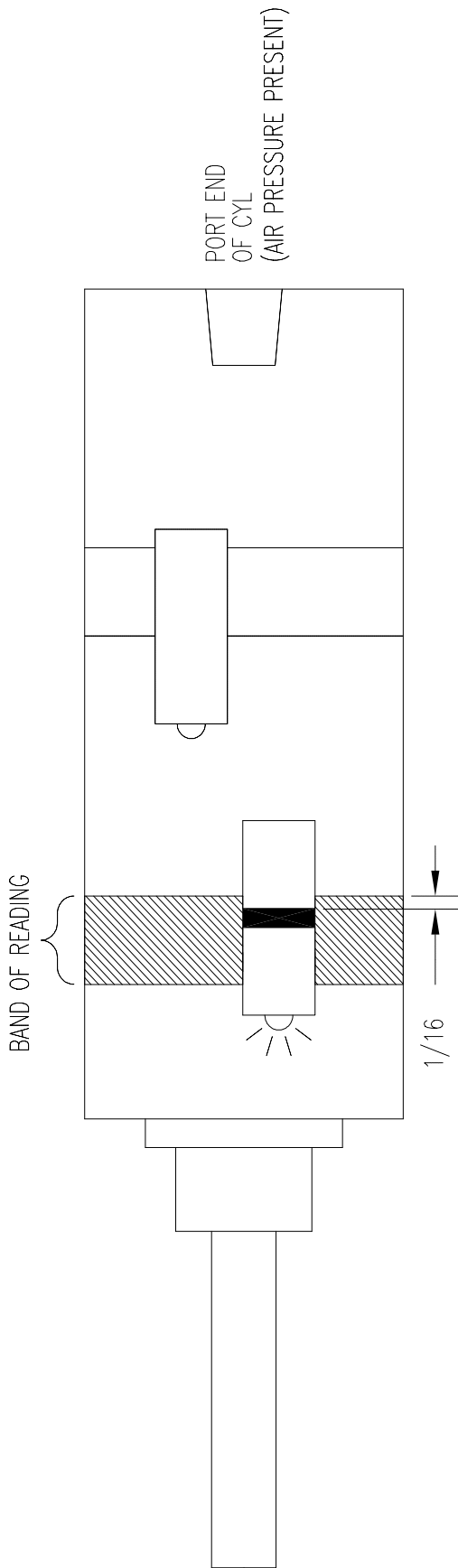


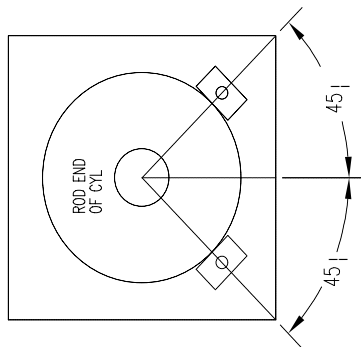
Figure 13

REED SWITCH POSITIONING: DETECT LOCKS OPEN



NOTES:—

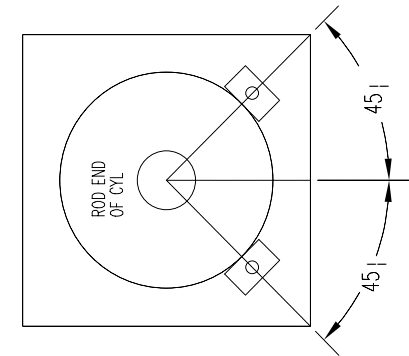
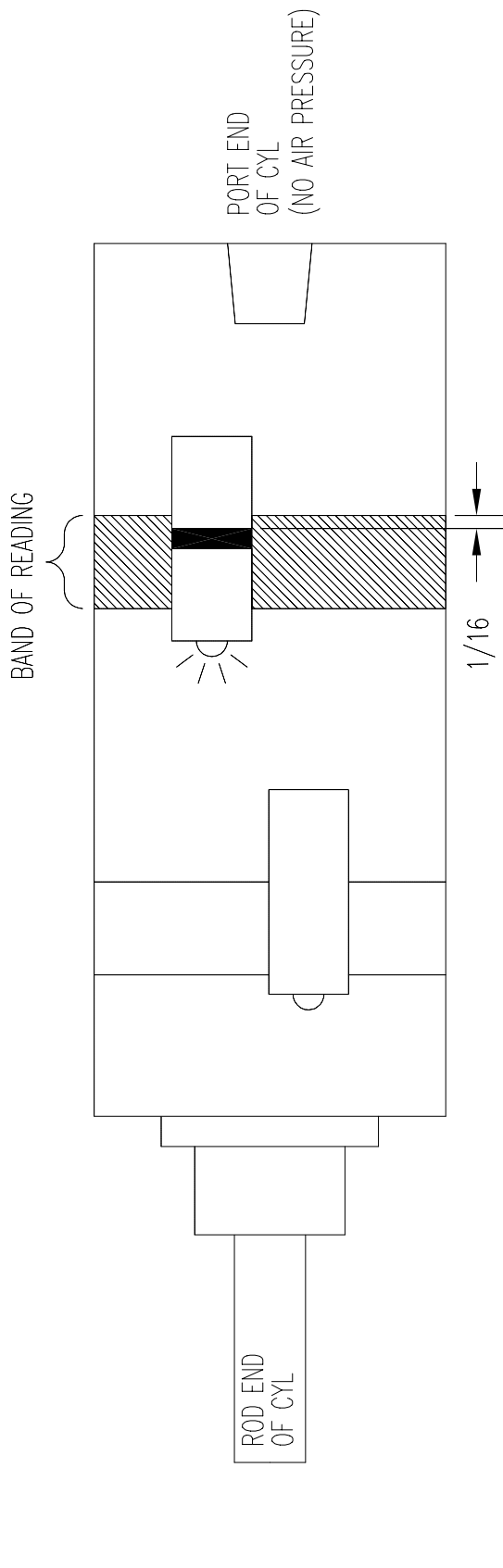
1. SWITCHES TO BE ADJUSTED ONLY WHEN LIFT RAISED FULLY
2. OVER-RIDE AIR SOLENOID TO FULLY RELEASE ALL LOCKS (AIR SUPPLIED TO ALL LOCK CYLINDERS)
3. DISCONNECT PLUG FROM REED SWITCHES AND CONNECT SWITCHES TO BATTERY TEST MODULE.
4. ADJUST POSITION OF REED SWITCH AT ROD END OF CYLINDER TO DETERMINE BAND OF READING (WHEN SWITCH LED LIGHTS). POSITION SWITCH TOWARD PORT END OF BAND. ENSURE REED SWITCHES ROTATED AWAY FROM EACH OTHER AS SHOWN IN DIAGRAM TO LEFT. SECURE CLAMP SNUG BUT DO NOT OVERTIGHTENED CLAMP OR SWITCH MAY BECOME DAMAGED.
5. VERIFY ALL REED SWITCHES ADJUSTED PROPERLY BY LOWERING LIFT WITH LOWER BUTTON.



FILE: MAN3005
REV DATE: 8/04

Figure 14

REED SWITCH POSITIONING: DETECT LOCKS CLOSED



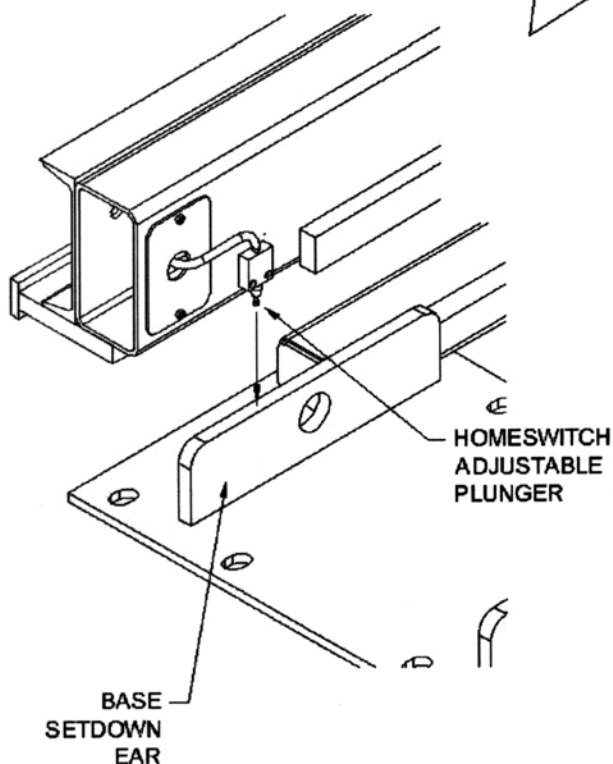
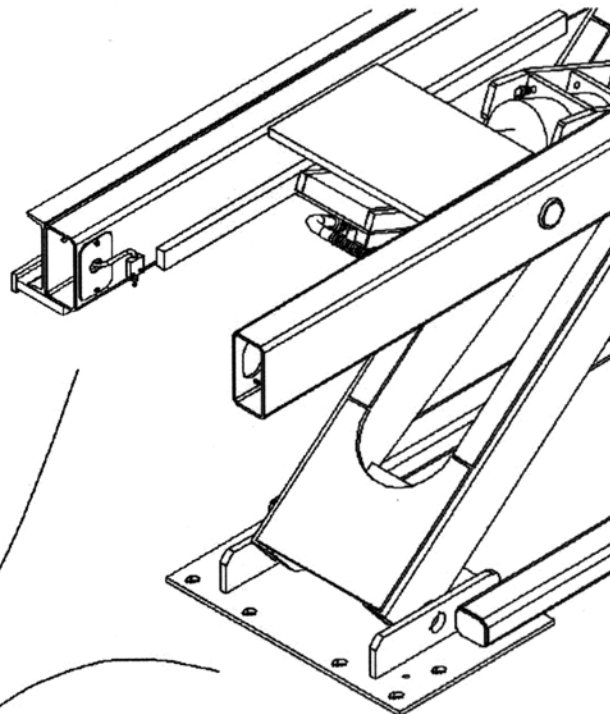
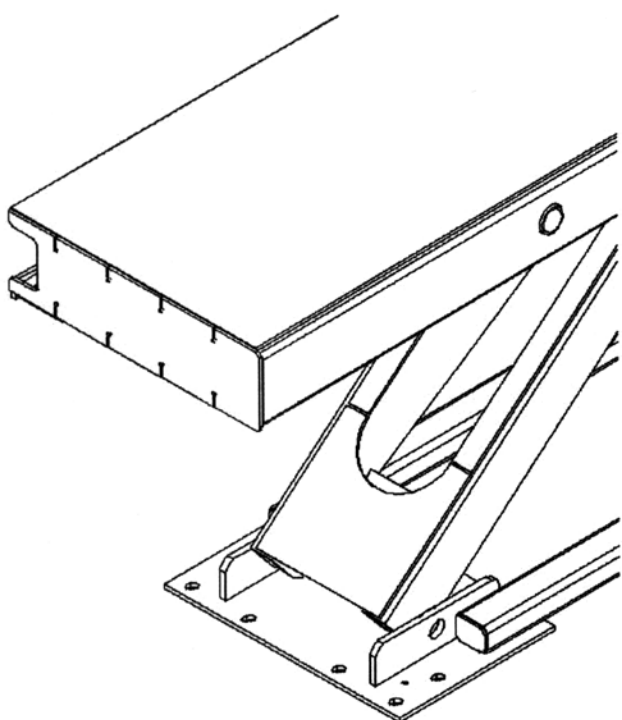
NOTES:

1. ADJUSTMENT FOR THIS REED SWITCH IS TO BE DONE AT TOP-MOST LOCK POSITION. RAISE LIFT UNTIL ALL LOCKS FALL INTO PLACE AT TOP LOCK AND THERE IS $\sim 3/8$ GAP BETWEEN MATING TEETH.
2. DISCONNECT PLUG FROM REED SWITCHES AND CONNECT SWITCHES TO BATTERY TEST MODULE.
3. ADJUST POSITION OF REED SWITCH AT PORT END OF CYLINDER TO DETERMINE BAND OF READING (WHEN SWITCH LED LIGHTS). POSITION SWITCH TOWARD PORT END OF BAND. ENSURE REED SWITCHES ROTATED AWAY FROM EACH OTHER AS SHOWN IN DIAGRAM TO LEFT. SECURE CLAMP SNUG BUT DO NOT OVERTIGHTENED CLAMP OR SWITCH MAY BECOME DAMAGED.
4. VERIFY THAT ALL REED SWITCHES ADJUSTED PROPERLY BY CYCLING LIFT UP AND DOWN AND ENSURING THAT PARK BUTTON ILLUMINATES AND PARKS LIFT ON LOCKS PROPERLY.

FILE: MAN3006
DATE: 8/04

Figure 15

HOME SWITCH ADJUSTMENT PROCEDURE

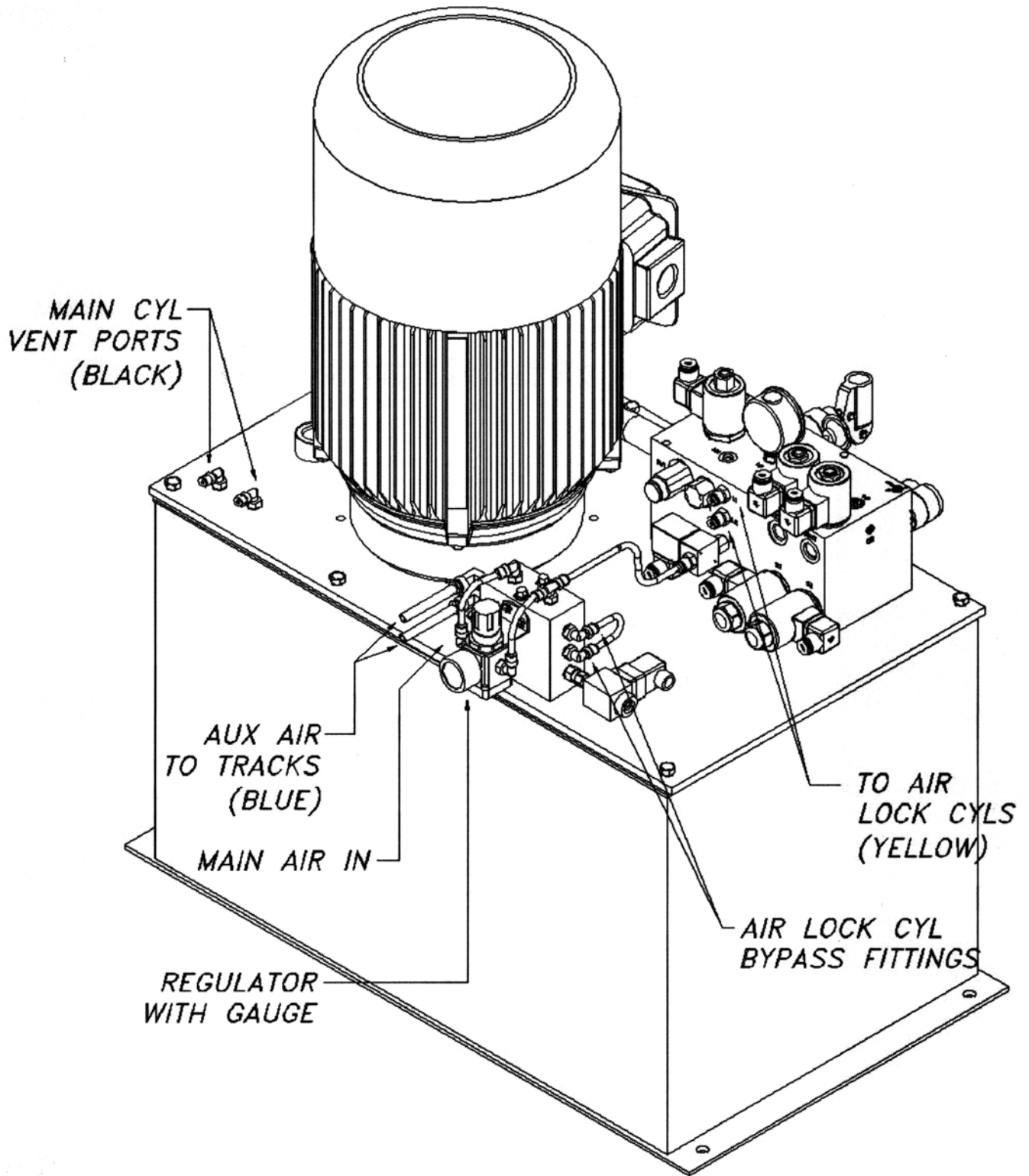


HOME SWITCH ADJUSTMENT PROCEDURE:

1. ENSURE BOTH HOME SWITCH PLUNGERS TURNED TO FULLY COLLAPSED POSITION.
2. ENSURE THAT SWITCHES DO NOT HIT BASE SETDOWN BARS WHEN PLATFORMS ARE FULLY LOWERED, USING MANUAL LOWERING VALVES AT THE BOTTOM (CONTROL SCREEN WILL NOT ZERO OUT PLATFORM HEIGHT)
3. RAISE TO A WORKABLE HEIGHT AND BACK SCREWS OUT OF SWITCHES A FEW TURNS.
4. LOWER PLATFORM AGAIN, USING MANUAL LOWERING VALVE AT THE BOTTOM.
5. WHEN PLATFORM ZERO'S OUT ON CONTROL SCREEN, HOME SWITCH IS SET. BACK SCREW OUT OF HOME SWITCH ONE MORE COMPLETE TURN, THEN JAM WITH NUT.
6. REPEAT STEPS 3-5 UNTIL BOTH HOME SWITCHES ZERO OUT WHEN PLATFORMS ARE FULLY LOWERED.
7. RAISE AND LOWER LIFT A FEW TIMES TO VERIFY THAT BOTH PLATFORMS ARE ZEROING OUT AT FULLY LOWERED POSITION, WITHOUT HAVING TO USE MANUAL LOWERING VALVES.

FILE: MAN3010
REV: 5/03

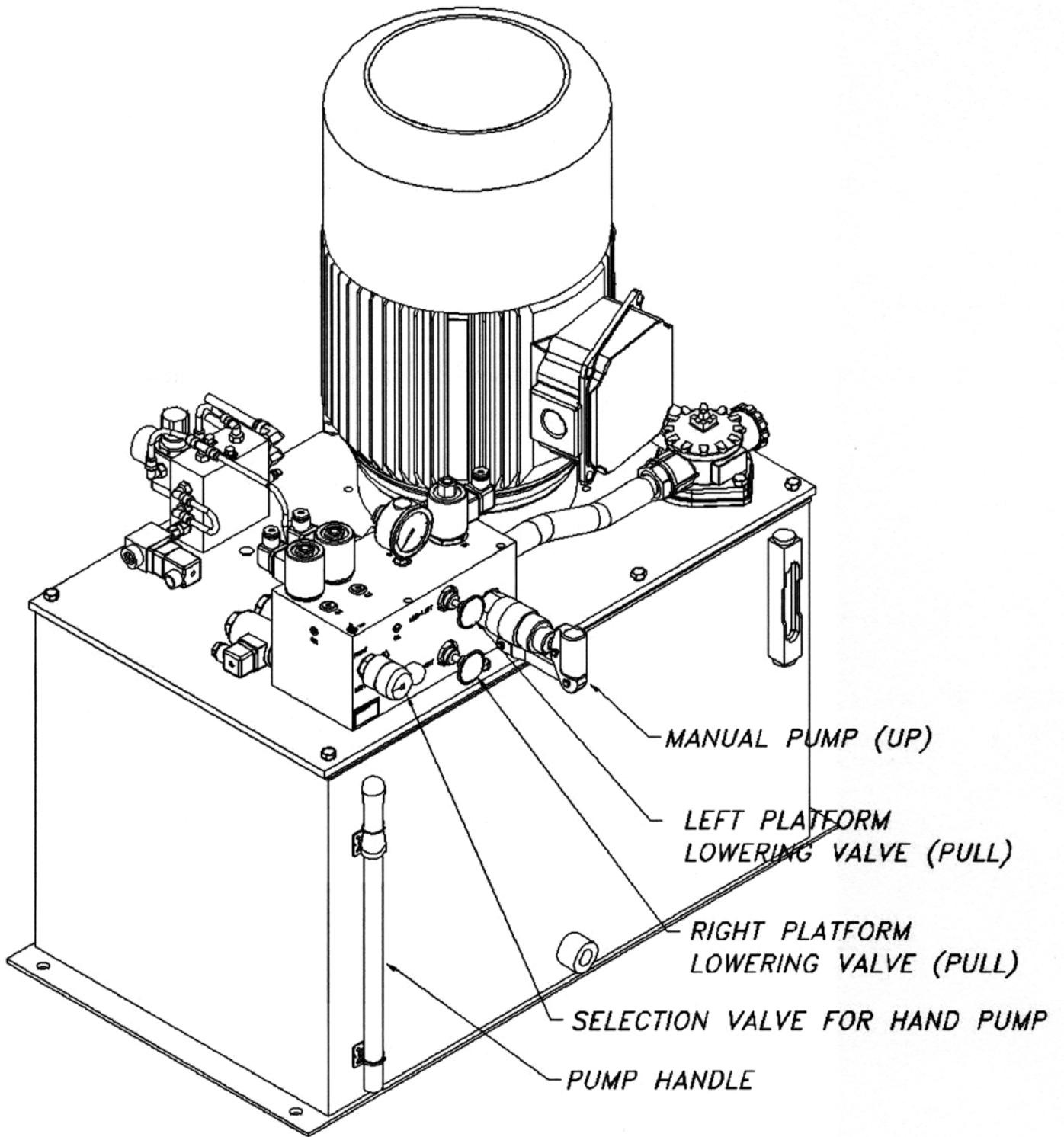
Figure 16



CONSOLE PNEUMATIC CONNECTIONS

FILE: MAN3008A

Figure 17



CONSOLE MANUAL OVERRIDE CONTROLS

FILE: MAN3008B

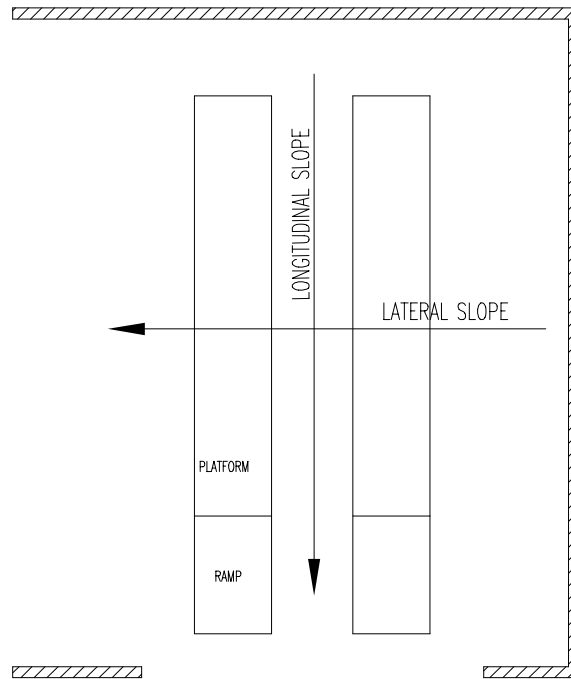
Figure 18

Parallelogram Shimming Notes:

File: Parallel Shim.doc

Date: 10/3/2003

The ideal surface to install Mohawk Parallelogram style lifts in on a perfectly flat and level floor. This, however, is usually the exception rather than the norm when installing these lifts in the field. When a non-flat or non-level floor is encountered, the following shimming guidelines should be followed:

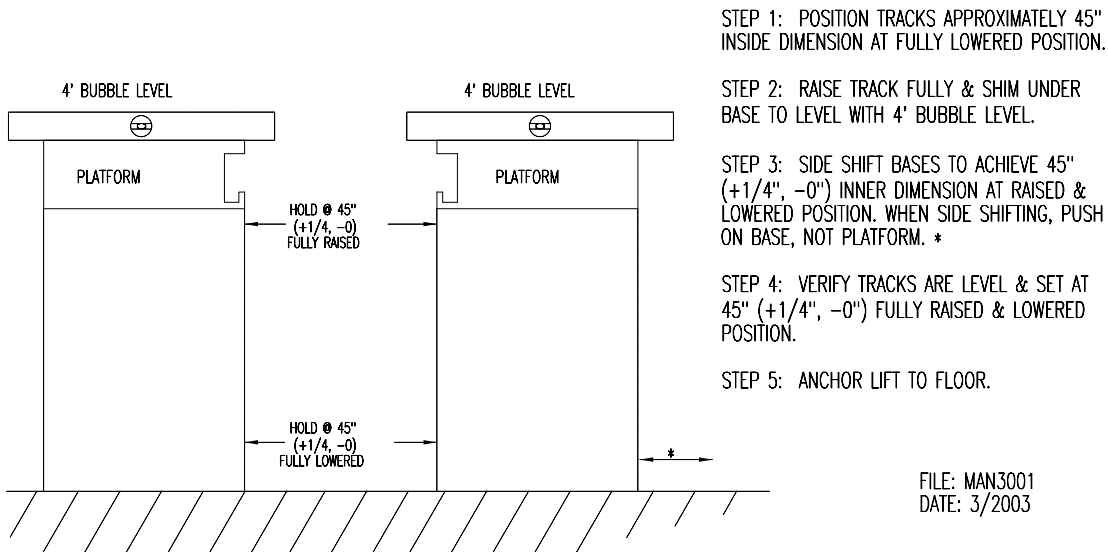


TYPICAL BAY INSTALLATION FOR A MOHAWK PARALLELOGRAM STYLE LIFT
FILE: MAN3012

Lateral Shimming (Left to Right):

The lift must be shimmed plum and level with respect to each other, to ensure that both platforms raise evenly.

PARALLELOGRAM SHIMMING (END VIEW OF PLATFORMS, SHOWN)



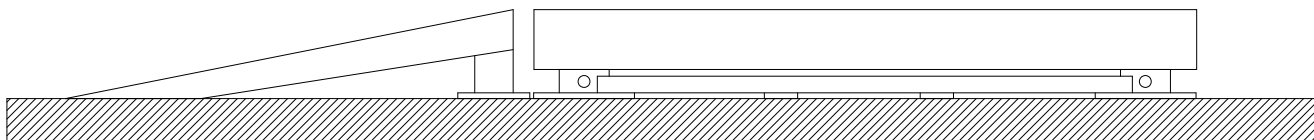
FILE: MAN3001
DATE: 3/2003

Figure 19

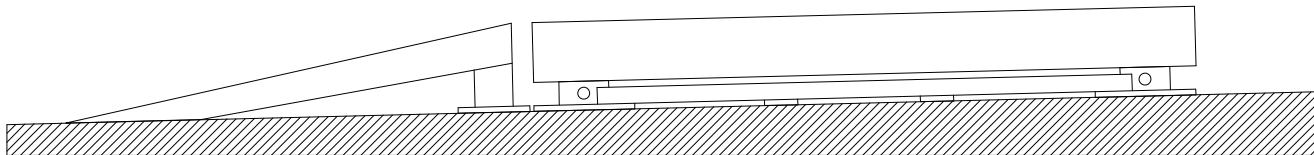
Longitudinal Shimming (Front to Back):

Usually the floor is sloped from the back of the bay downward to the front of the bay towards some drainage system. If this slope is in less than 3” from end to end of base frame, it is not necessary for shimming this lift level. It is left to the installer and the customer to decide if shimming the lift level is desired. Regardless, shimming may still be required to ensure the platforms are level with respect to themselves. If the slope is greater than 3” from front to end of base frame, it is recommended to shim the end of the base to within the acceptable range slope (less than 3”). The use of additional base plates, stringer plates, longer anchors and grout may be necessary to shim along the whole length of the base frame to achieve this. Also note that the ramps themselves may need to be shimmed up to meet the level of the platforms. If this is the case, the ramp angle will be increased, and the customer should be made aware of this.

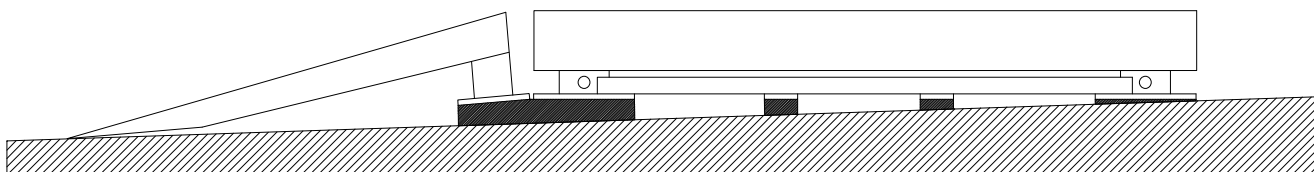
LIFT ON FLAT AND LEVEL FLOOR (LONGITUDINALLY)



LIFT ON UN-LEVEL FLOOR (LONGITUDINALLY) WITHOUT SHIMMING



LIFT ON UN-LEVEL FLOOR (LONGITUDINALLY) WITH SHIMMING



LONGITUDINAL SHIMMING OF
A MOHAWK PARALLELOGRAM STYLE LIFT

FILE: MAN3013

In conclusion, without shimming, this lift can only be as level as the floor it is put on. If shimming is required to correct floor slopes, uneven floors, etc., additional time will be required for installation, and additional costs may be incurred for extra shims, base plates, grout, etc.

Figure 19

MOHAWK

PARALLELOGRAM

MISCELLANEOUS INFO



MOHAWK RESOURCES LTD.

65 VROOMAN AVE.

AMSTERDAM, NY 12010

TOLL FREE: 1-800-833-2006

LOCAL: 1-518-842-1431

FAX: 1-518-842-1289

INTERNET: WWW.MOHAWKLIFTS.COM

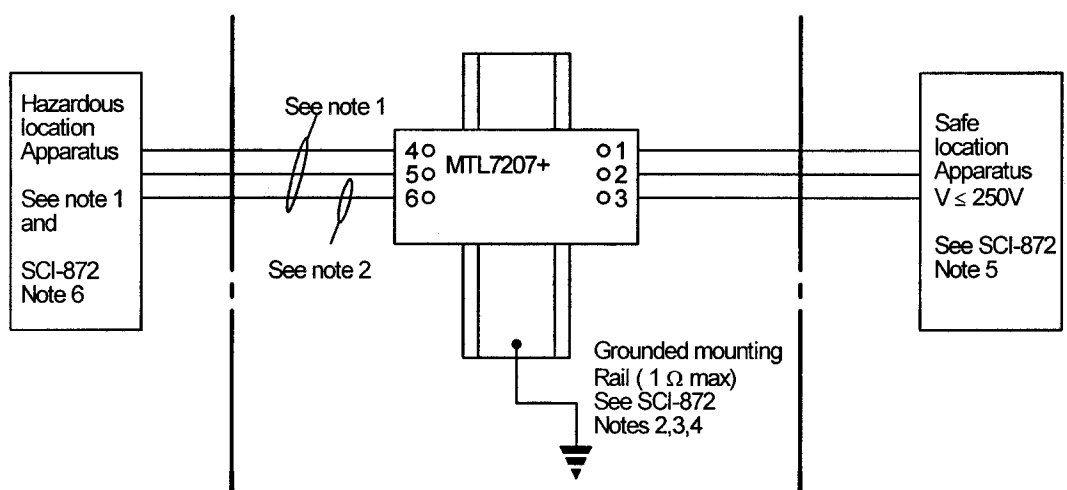
E-MAIL: SERVICE@MOHAWKLIFTS.COM

Chd		Do Not Scale		Third Angle Projection	
Modification		<p>Note 1 When installed in either a Non-Hazardous (Safe) Location or in a Division 2 Hazardous Location, the MTL7000 series shunt diode safety barriers must be secured to a DIN 'T' section (35x27x7.5mm) mounting rail. Rails constructed in aluminium or aluminium-based alloys must not be used.</p> <p>Note 2 The mounting rail specified in Note 1 must be provided with at least one grounding terminal (two are recommended) which should be situated at each end of the rail. These terminals are to be used for the intrinsic safety grounding system discussed in Notes 3 and 4.</p> <p>Terminals 3 and 6 of the barrier(s) must not be used as a substitute for the intrinsic safety grounding system and are only intended for the grounding of signal wires or cable screens.</p> <p>Note 3 Each of the grounding terminals specified in Note 2, paragraph 1, must be capable of accommodating conductors up to 4mm² in cross-section (12AWG).</p> <p>Note 4 The grounding system must be such that when installed the ground loop impedance (including the mounting rail) does not exceed 1Ω.</p> <p>Note 5 The Non-Hazardous (Safe) Location equipment must not generate or use voltages in excess of 250V rms or d.c.</p> <p>Note 6 The Hazardous Location equipment may be Simple Apparatus. Apparatus such as RTD's, LED's and non-inductive resistors may be used if the auto ignition temperature of the Hazardous Location is greater than T4 (275°F, 135°C). Certified devices with the correct Entity Parameters may also be used.</p> <p>Note 7 For installation in the USA, the installation practices must comply with the National Electrical code NFPA70 Article 504 ANSI/ISA RP12.6.</p> <p>Note 8 The MTL7000 Series Shunt Diode safety barriers are Associated Apparatus, and when mounted in an appropriate enclosure may also be installed in the following areas: i) Non-Hazardous (Safe) Location ii) Class I, Division 2, Groups A,B,C and D Hazardous Locations iii) Class II Division 2, Groups F and G Hazardous Locations iv) Class III, Division 2 Hazardous Locations</p> <p>Note 9 Barriers must be installed in enclosures meeting the requirements of ANSI/ISA-S82 and the National Electrical Code.</p> <p>Note 10 Use UL Listed, or NRTL - Listed, dust-ignition proof enclosures appropriate for environmental protection in Class II, Division 2, Groups F and G, and Class III Hazardous Locations.</p> <p>Note 11 When MTL7000 Series Shunt Diode Safety Barriers are installed in Division 2 Hazardous Locations, supply connections must not be removed and replaceable fuses must not be withdrawn unless the area is known to be non-hazardous. A warning notice containing the wording shown below must be prominently displayed inside the enclosure(s) containing these barriers.</p> <p>"WARNING - Do not make or break connections or remove fuses unless the area is known to be non-hazardous".</p> <p>A copy of this warning notice is available from MTL drawing SCI-873</p> <p>Note 12 <u>WARNING for replaceable fuse barriers installed in Division 2 Hazardous Locations.</u></p> <p>Exposure to some chemicals may degrade the sealing properties of materials used in the construction of replaceable fuses.</p> <p>Material: Plastic moulding material Type: Acetal Designation: C13031 Manufacturer: Hoescht</p> <p>Replaceable fuses must be periodically inspected for degradation of the plastic material. If degradation is observed, replacement must be made.</p>			
Date Dm					
Iss					
MEASUREMENT TECHNOLOGY LTD Luton, England Copyright Reserved - Written Permission to Copy Should be Obtained					
Chd					
Modification					
Date Dm					
Date Dm					
Iss					
System Certificate No.		N/A		Scale N/A	
Date Dm		Certifying Authority: UL		Sheet 1 of 1	
Date Dm		Title		Drg. No.	
Iss		Common Installation Drawing for the MTL7000 Series Shunt Diode Safety Barriers		SCI-872	

Dimensions in mm

Do Not Scale

Third Angle Projection



HAZARDOUS LOCATION Class I, Groups A,B,C,D. Class II, Groups E,F,G. Class III

NON-HAZARDOUS (Safe) Location, or DIVISION 2 HAZARDOUS LOCATION (See SCI-872, notes 7,8,9,10,11)

NON-HAZARDOUS(Safe) LOCATION

Note 1

The Entity Parameters for the MTL7207+ shunt diode safety barrier are:-

- a) Terminal 4 to Terminal 6 or Ground
 $V_{oc} \leq 28V$ $I_{sc} \leq 93mA$

Groups	Capacitance	Inductance
A,B	0.13 μF	4.2 mH
C,E	0.39 μF	12.6 mH
D,F,G	1.04 μF	33.6 mH

- b) Terminal 5 to Terminal 6 or Ground
 $V_{oc} \leq 28V$ $I_{sc} = 0mA$

Groups	Capacitance	Inductance
A,B	0.13 μF	61.5 mH
C,E	0.39 μF	227.0 mH
D,F,G	1.04 μF	506.0 mH

- c) Terminal 4 to Terminal 5 (with or without Ground Return)
 $V_t \leq 30V$ $I_t \leq 93mA$

Groups	Capacitance	Inductance
A,B	0.12 μF	4.2 mH
C,E	0.36 μF	12.6 mH
D,F,G	0.97 μF	33.6 mH

The Entity Concept allows interconnection of intrinsically safe apparatus with associated apparatus not specifically examined in combination as a system, when approved values of V_{oc} and I_{sc} or V_t and I_t of the associated apparatus are less than or equal to V_{max} and I_{max} of the intrinsically safe apparatus, and the approved values of C_a and L_a of the associated apparatus, are greater than C_i and L_i of the intrinsically safe apparatus including the cable length.

Note 2

The field connection from terminal 6 to the Hazardous Location Apparatus may or may not be made.

MEASUREMENT TECHNOLOGY LTD
 Luton, England
 Copyright Reserved - Written Permission
 to Copy Should be Obtained

Chd	
Date Dm	01.00 SM
Date Dm	11.00 SM
Iss	1

System Certificate No.	N/A	Scale	N/A
Certifying Authority:	UL	Sheet	1 of 1
Title	Installation Drawing for the MTL7207+ Shunt Diode Safety Barrier	Drg. No.	SCI-890

THIS IS A CONTROLLED DOCUMENT FOR AGENCY APPROVAL

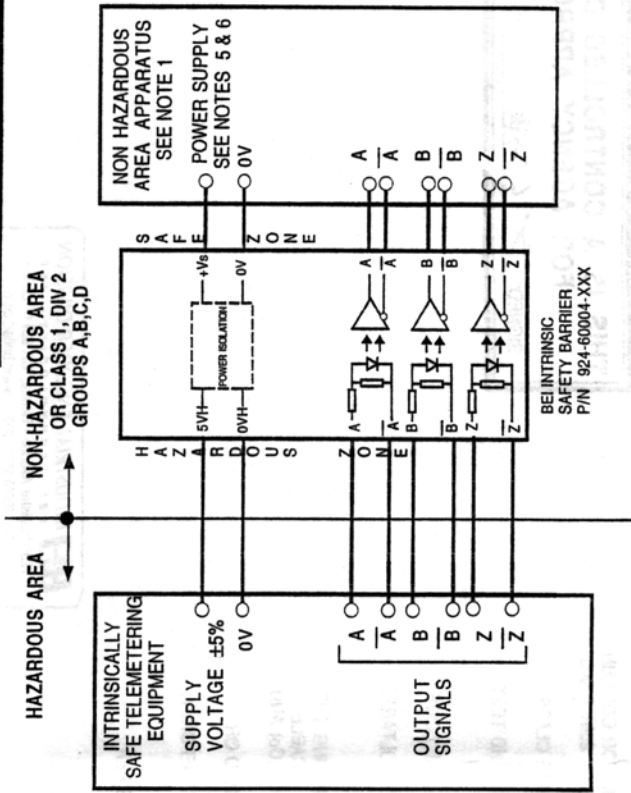
SIGNED *[Signature]* DATE 1-25-01

TABLE 1 BARRIER PARAMETERS

Voltage Supply At Encoder	Class I, Group D		Class I, Group C		Class I, Groups A,B	
	Voc (Uo)	Isc (Io)	Ca (Co)	La (Lo)	Ca (Co)	La (Lo)
+5VDC	89	345mA	590 uF	2.0 mH	43 uF	0.75 mH
					5.6 uF	0.4 mH

TABLE 2 ELECTRICAL SPECIFICATIONS

VOLTAGE SUPPLY AT ENCODER, NOMINAL	+5 VDC $\pm 5\%$ @ 100mA (FUSED AT 160mA)
APPROX. POWER SUPPLY VOLTAGE TO BARRIER	SEE TABLE 3
APPROX. POWER SUPPLY CURRENT TO BARRIER	200 mA NOMINAL
INPUT SIGNAL LEVEL FROM ENCODER	4V NOMINAL, 6V MAX
BARRIER SIGNAL INPUT IMPEDANCE	500 Ω NOMINAL
INPUT TO BARRIER FROM ENCODER	A, \bar{A} , B, \bar{B} , Z, \bar{Z} (QUADRATURE WITH INDEX)
INPUT CURRENT FROM ENCODER A TO A, B TO B, Z TO Z	10 mA PER CHANNEL, NOMINAL
BARRIER OUTPUT TO NON-HAZARDOUS APPARATUS	SEE TABLE 3
FREQUENCY RESPONSE	250 KHZ MAX



BARRIER PARAMETERS	ENCODER & CABLE PARAMETERS
Voc (Uo) \leq	V MAX
Isc (Io) \leq	I MAX
Ca (Co) \geq	Ci + C cable
La (Lo) \geq	Li + L cable

SEE TABLE 1 AND NOTE 7

All drawings and specifications are and remain the property of BEI Motion Systems Company. All specifications are confidential and are not to be disclosed to any persons other than those to whom they are sent. No drawings, specifications or other data belonging to BEI Motion Systems Company which may be furnished to manufacturers or others for any purpose are to be regarded by implication or otherwise as in any manner licensing the holder or any other person or corporation or conveying any rights or permission to manufacture, use or sell any patented invention that may in any way be related thereto.

Unless otherwise specified:
Dimensions are in inches.
Tolerances:
XXX = .005
XX = .001



Industrial Encoder Division
BEI SENSORS AND SYSTEMS COMPANY
7230 Hollister Avenue • Goleta, CA 93117-2891 • Tel: (805) 968-0782 • Fax: (805) 968-3154

Drawn _____
App'd *[Signature]*
Scale _____

Code Ident. No. **12050**
Dwg. No. **924-08067-001 1/2**

Material _____
Finish _____
Used on _____

01061
Next Assy _____

Rev. **A**

SYSTEM DIAGRAM, GALVANICALLY ISOLATED BARRIER

**THIS IS A CONTROLLED DOCUMENT
FOR AGENCY APPROVAL**

SIGNED  DATE 01-02-01

- NOTES:
- NON-HAZARDOUS AREA APPARATUS THAT IS UNSPECIFIED EXCEPT THAT IT MUST NOT BE SUPPLIED FROM NOR CONTAIN UNDER NORMAL OR ABNORMAL CONDITIONS A SOURCE OF POTENTIAL WITH RESPECT TO EARTH IN EXCESS OF 250V R.M.S. OR 250 V.D.C
 - INTRINSICALLY SAFE ENCODERS: HAZARDOUS AREA APPARATUS THAT IS CERTIFIED TO THE APPROPRIATE CLASS AND GROUP BY THE CERTIFICATION BODY OF THE COUNTRY OF USE.
 - THE ELECTRICAL CIRCUITS IN THE HAZARDOUS AREA MUST BE CAPABLE OF SURVIVING A VOLTAGE WITHSTAND TEST OF 500V R.M.S. TO EARTH OR FRAME OF THE APPARATUS.
 - THE INSTALLATION MUST COMPLY WITH THE REGULATIONS OF THE COUNTRY OF USE.
 - 4a NORTH AMERICAN INSTALLATIONS: INSTALLATION MUST BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE NFPA70, ARTICLE 504, ANSI/ISA-IP12.6 AND CEC PART 1, APPENDIX F.
 - THE POWER SOURCE MUST BE CONSISTENT WITH PART NUMBER AND OUTPUT TYPE SPECIFIED IN TABLE 3. VOLTAGES GREATER THAN 5% OF THE NOMINAL BARRIER SUPPLY VOLTAGE MAY DAMAGE THE BARRIER.
 - HAZARDOUS AREA CABLE CAPACITANCE (C cable) AND INDUCTANCE (I cable) ARE CALCULATED BY MULTIPLYING THE CABLE LENGTH (IN FEET) BY THE NUMBER OF CONDUCTORS BY 60 pF / FT. AND 0.2 uH / FT. RESPECTIVELY. CABLE CAPACITANCE (C cable) AND INDUCTANCE (I cable) VALUES PLUS CI AND LI MUST NOT EXCEED VALUES OF Ca (Co) AND La (Lo) DETERMINED BY BARRIER MANUFACTURER.
 - THIS DESIGN IS CERTIFIED BY UL / DEMKO. NO CHANGES ARE ALLOWED WITHOUT APPROVAL FROM UL / DEMKO OR EQUIVALENT CERTIFYING BODY.
 - WARNING: SUBSTITUTION OF COMPONENTS MAY IMPAIR INTRINSIC SAFETY. REPAIRS TO BE PERFORMED BY BEI ONLY.
 - ASSOCIATED APPARATUS AND APPAREILLAGE CONNEXE.
 - AVERTISSEMENT: LA SUBSTITUTION DE COMPONENTS PEUT COMPROMETTRE LA SECURITE INTRINSEQUE.
 - DIV 2 INSTALLATIONS: USE GENERAL PURPOSE ENCLOSURE SUITABLE FOR CLASS 1, DIV 2 WIRING METHODS PER NATIONAL ELECTRICAL CODE NFPA 70, ARTICLE 501.

TABLE 3

TABLE 3 POWER SUPPLY / OUTPUT TYPES

PART NUMBER	BARRIER SUPPLY Vs +/- 5%	OUTPUT VOLTAGE TO NON-HAZARDOUS AREA APPARATUS	OUTPUT TYPE NON-HAZARDOUS AREA APPARATUS
924-60004-001	12-15 VOLTS	Vout=Vin (nominal)	LINE DRIVER 4469 100mA Source/Sink
924-60004-002	12-24 VOLTS	Vout=5V	LINE DRIVER 4469 100mA Source/Sink
924-60004-003	12-24 VOLTS	Vout=Vin (nominal)	LINE DRIVER 7272 100mA Source/Sink
924-60004-004	12-24 VOLTS	OPEN COLLECTOR	NPN OPEN COLLECTOR 40mA Source/Sink

BEI INDUSTRIAL ENCODER DIVISION
BEI TECHNOLOGIES, INC.
 7230 Hollister Avenue • Goleta, CA 93117-2881 •
 Tel: (805) 968-0782 www.beiled.com

**GALVANICALLY ISOLATED BARRIER CE
PROCESS CONTROL EQUIPMENT**

UL LISTED
 IEC 61508-1/2
 ISO 9001

Approved Apparatus Suitable for mounting in a Class I, Div 2 Hazardous location. Provides inherent safety for use in Class I, Div 2 Hazardous locations when installed in accordance with the applicable standards.

BEI Control Drawing 924-08067-001
 ISO Warning: Substitution of Components May Impair Intrinsic Safety



Industrial Encoder Division
 BEI SENSORS AND SYSTEMS COMPANY
 7230 Hollister Avenue • Goleta, CA 93117-2881 • Tel: (805) 968-0782 • Fax: (805) 968-3154

Material: _____
 Drawn: _____
 App'd: 
 Scale: _____

Code Ident. No. **12050**
 Draw. No. **924-08067-001 2/2**

SYSTEM DIAGRAM, GALVANICALLY ISOLATED BARRIER

Rev: **A1**

All drawings and specifications are and remain the property of BEI Motion Systems Company. All specifications are confidential and are not to be disclosed to any persons other than those to whom they are sent. No drawings, specifications or other data belonging to BEI Motion Systems Company which may be furnished to manufacturers or others for any purpose are to be regarded by implication or otherwise as in any manner licensing the holder or any other person or corporation or conveying any rights or permission to manufacture, use or sell any patented invention that may in any way be related thereto.

Unless otherwise specified:
 Dimensions are in inches.
 Tolerances:
 XXX = .005
 XX = ±.01

Revision	REVISED NAMEPLATE	Date	12/12/96
Ltr	C		
	D	ECN 3227, REVERSED SYMBOLS ON BARRIER PARAMETERS	4/15/98

THIS IS A CONTROLLED DOCUMENT FOR AGENCY APPROVAL

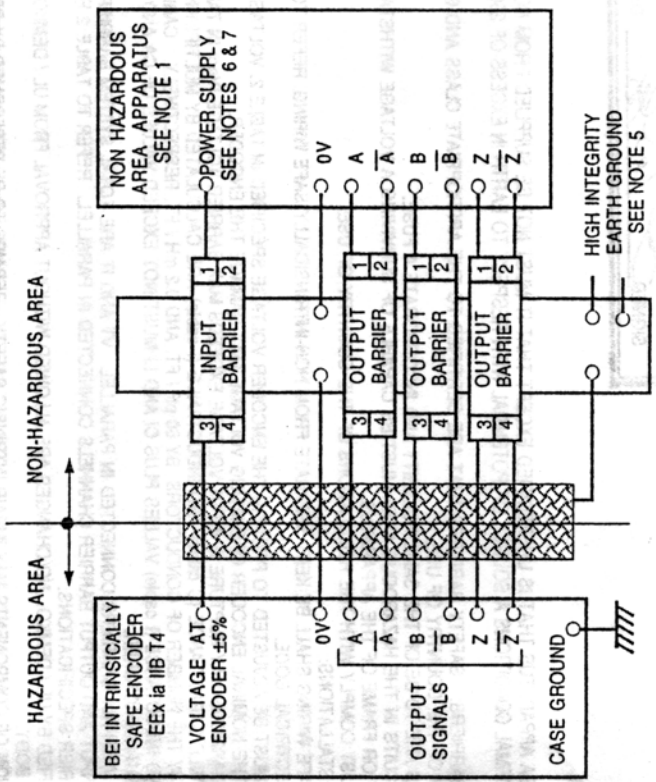
SIGNED: *[Signature]* DATE: 4-28-98

TABLE 1

Voltage Supply At Encoder	V Max	Group (No. America)		Encoder Ci	Encoder Li
		Group (Europe) CLASS II	Class I		
+5VDC	15VDC 1.2A	A,B	C,D E,F,G	.75 μF	0 mH

TABLE 2 ELECTRICAL SPECIFICATIONS

VOLTAGE SUPPLY AT ENCODER	+5 VDC ±5%
APPROX. POWER SUPPLY VOLTAGE TO BARRIER	11 VDC
INPUT BARRIER	Voc = 15VDC MAX Isc = 300 mA MAX
OUTPUT BARRIER	Voc = 15VDC MAX. Isc = 150mA MAX. PER BARRIER CHANNEL
MAXIMUM CURRENT REQ'D BY ENCODER (OUTPUT IMPEDANCE)	140 mA (500 Ω)
TYPICAL CURRENT REQ'D BY ENCODER	120 mA
OUTPUT CURRENT FROM A OR A	10 mA
OUTPUT CURRENT FROM B OR B	10 mA
OUTPUT CURRENT FROM Z OR Z	10 mA
CURRENT TAKEN BY NON- DRIVE CIRCUIT OF ENCODER	140 mA - 30 mA = 110mA MAX 120 mA - 30 mA = 90 mA TYPICAL



All drawings and specifications are and remain the property of BEI Motion Systems Company. All specifications are confidential and are not to be disclosed to any persons other than those to whom they are sent. No drawings, specifications or other data belonging to BEI Motion Systems Company which may be furnished to manufacturers or others for any purpose are to be reprinted or otherwise used in any manner, including the holder or any other person or corporation or conveying any rights or permission to manufacture, use or sell any patented invention that may in any way be related thereto.

Unless otherwise specified:
 Dimensions are in inches.
 Tolerances:
 XXX = .005
 XX = ±.01



Industrial Encoder Division
 BEI SENSORS AND SYSTEMS COMPANY
 7230 Hollister Avenue • Goleta, CA 93117-2891 • Tel: (805) 968-0782 • Fax: (805) 968-3154

Drawn	<i>[Signature]</i>	Dwg. No.	924-08062-001	Rev.	D
App'd	<i>[Signature]</i>	Code Ident. No.	12050		
Scale					
Material					
Finish					
Next Assy	01061				
Used on	09173				

BARRIER PARAMETERS

$V_T \leq V \text{ MAX}$
 $I_T \leq I \text{ MAX}$
 $C_A \geq C_i + C \text{ cable}$
 $L_A \geq L_i + L \text{ cable}$

SEE TABLE 1 AND NOTES 8 AND 9

THIS IS A CONTROLLED DOCUMENT FOR AGENCY APPROVAL

SIGNED: *J. LeBlond* DATE: 4-28-98

1. NON-HAZARDOUS AREA APPARATUS THAT IS UNSPECIFIED EXCEPT THAT IT MUST NOT BE SUPPLIED FROM NOR CONTAIN UNDER NORMAL OR ABNORMAL CONDITIONS A SOURCE OF POTENTIAL WITH RESPECT TO EARTH IN EXCESS OF 250V R.M.S. OR 250 V.D.C
2. INPUT AND OUTPUT BARRIERS: SAFETY BARRIERS THAT ARE CERTIFIED TO THE APPROPRIATE CLASS AND GROUP BY THE CERTIFICATION BODY OF THE COUNTRY OF USE.
3. ALL SAFETY BARRIERS ARE TO BE OF THE SAME POLARITY AND INCORPORATE A FUSE.
4. THE ELECTRICAL CIRCUITS IN THE HAZARDOUS AREA MUST BE CAPABLE OF SURVIVING A VOLTAGE WITHSTAND TEST OF 500V R.M.S. TO EARTH OR FRAME OF THE APPARATUS.
5. THE INSTALLATION MUST COMPLY WITH THE REGULATIONS OF THE COUNTRY OF USE.
 - 5a NORTH AMERICAN INSTALLATIONS:
 - ALL INTRINSICALLY SAFE WIRING SHALL BE KEPT SEPARATE FROM NON-INTRINSICALLY SAFE WIRING. REFER TO ARTICLE 504 OF THE NATIONAL ELECTRICAL CODE.
 - THE POWER SOURCE MUST BE ADJUSTED TO PROVIDE THE ENCODER VOLTAGE SPECIFIED IN TABLE 2. VOLTAGES GREATER THAN 10% OF THE NOMINAL ENCODER OPERATING VOLTAGE MAY DAMAGE THE ENCODER.
 - FUSES IN THE ZENER BARRIERS MAY RUPTURE IF INPUT VOLTAGE EXCEEDS MAX BARRIER VOLTAGE (Voc) IN TABLE 2.
 - HAZARDOUS AREA CABLE CAPACITANCE (C cable) AND INDUCTANCE (I cable) ARE CALCULATED BY MULTIPLYING THE CABLE LENGTH (IN FEET) BY THE NUMBER OF CONDUCTORS. BY 60 pF / FT. AND 0.2 mH / FT. RESPECTIVELY. CABLE CAPACITANCE (C cable) AND INDUCTANCE (I cable) VALUES PLUS CI AND LI MUST NOT EXCEED VALUES OF CA AND LA DETERMINED BY BARRIER MANUFACTURER.
 - SYSTEM EVALUATED WITH ALL BARRIERS CONNECTED IN PARALLEL. VT AND IT ARE TOTAL SYSTEM BARRIER PARAMETERS. WITH ALL INPUT AND OUTPUT BARRIER CHANNELS CONNECTED IN PARALLEL. REFER TO TABLE 2 FOR INDIVIDUAL CHANNEL BARRIER SPECIFICATIONS.
 - THIS DESIGN IS CERTIFIED BY UL / DEMKO. NO CHANGES ARE ALLOWED WITHOUT APPROVAL FROM UL / DEMKO OR EQUIVALENT CERTIFYING BODY.
11. WARNING: SUBSTITUTION OF COMPONENTS MAY IMPAIR INTRINSIC SAFETY. REPAIRS TO BE PERFORMED BY BEI ONLY.

TELEMETRY EQUIPMENT
FOR USE IN HAZARDOUS LOCATIONS

TEMP CODE T3C
CLASS I, GROUP C,D,
CLASS II, GROUP E,F,G
CLASS I, ZONE 0, GROUP 1B

Ex-ib TIBT4

INTRINSICALLY SAFE WHEN
INSTALLED PER THE INSTRUCTIONS
ON THE LABEL

BEI Industrial Encoder Division
BEI SENSORS AND SYSTEMS COMPANY
7230 Hollister Avenue • Goleta, CA 93117-2891 • Tel: (805) 968-0782 • Fax: (805) 968-3154

MOD. NO. H25D-1024-ABZC-4469-SM18-EX-S

PART NO.

CUST. NO.

SER. NO.

DATE VDC IN

TYPICAL MODEL NUMBER:
H25D-1024-ABZC-4469-SM18-EX-S

SYMBOLS IN THESE AREAS MAY BE VARIED TO DENOTE STANDARD MECHANICAL VARIATIONS. THE "S" IS USED TO DENOTE NON-STANDARD VARIATIONS.



Industrial Encoder Division
BEI SENSORS AND SYSTEMS COMPANY
7230 Hollister Avenue • Goleta, CA 93117-2891 • Tel: (805) 968-0782 • Fax: (805) 968-3154

All drawings and specifications are and remain the property of BEI Motion Systems Company. All specifications are confidential and are not to be disclosed to any persons other than those to whom they are sent. No drawings, specifications or other data belonging to BEI Motion Systems Company which may be furnished to manufacturers or others for any purpose are to be regarded by implication or otherwise as in any manner licensing the holder or any other person or corporation or conveying any rights or permission to manufacture, use or sell any patented invention that may in any way be related thereto.

Unless otherwise specified, Dimensions are in inches.
Tolerances:
XXX = .005
XX = ±.01

Material	Drawn	App'd	Scale
Finish	01061	08173	Used on
Code Ident. No.	12050	924-08062-001	2/2
Dwg. No.	12050	924-08062-001	2/2
Rev.			D

SYSTEM DIAGRAM, INTRINSICALLY SAFE ENCODER TYPE: 4469

Ltr	REVISION NAMEPLATE
C	ECN 3227 REVERSED SYMBOLS ON BARRIER PARAMETERS
D	

THIS IS A CONTROLLED DOCUMENT FOR AGENCY APPROVAL

SIGNED: *[Signature]* DATE: 4-28-98

TABLE 1

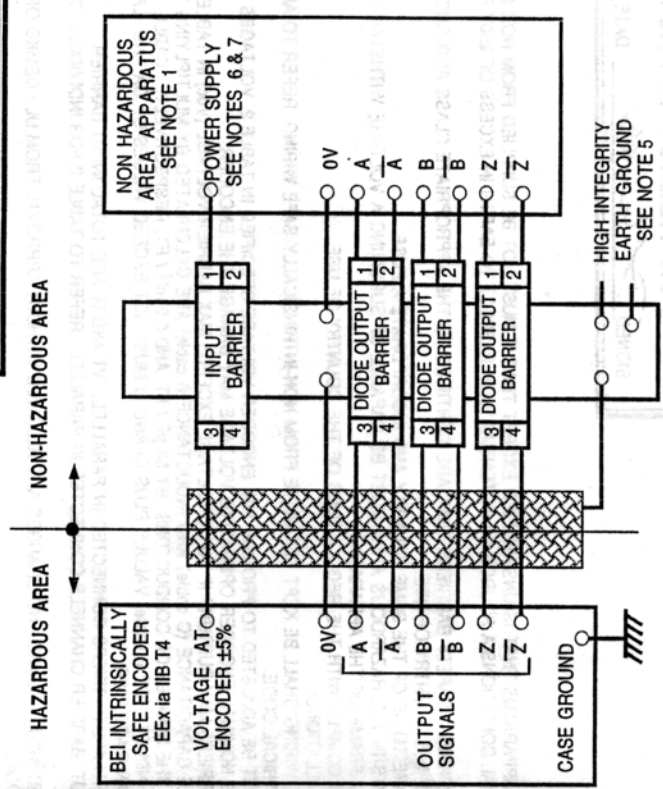
Voltage Supply At Encoder	Input Barrier V MAX I MAX	Output Barrier V MAX I MAX	Group (No. America)		Encoder Ci	Encoder Li
			Class I	Class II		
+5VDC	22vdc 450mA	28 VDC 0 A	C,D	E,F,G	.75 μ F	0 mH

TABLE 2 ELECTRICAL SPECIFICATIONS

VOLTAGE SUPPLY AT ENCODER	+5 VDC \pm 5%
APPROX. POWER SUPPLY VOLTAGE TO BARRIER	11 VDC
INPUT BARRIER	Voc = 22VDC MAX Isc = 450 mA MAX
OUTPUT BARRIER	Voc = 28VDC MAX. Isc = 0 mA MAX. PER BARRIER CHANNEL
MAXIMUM CURRENT REQ'D BY ENCODER (OUTPUT IMPEDANCE)	140 mA (500 Ω)
TYPICAL CURRENT REQ'D BY ENCODER	120 mA
OUTPUT CURRENT FROM A OR A	10 mA
OUTPUT CURRENT FROM B OR B	10 mA
OUTPUT CURRENT FROM Z OR Z	10 mA
CURRENT TAKEN BY NON- DRIVE CIRCUIT OF ENCODER	140 mA - 30 mA = 110mA MAX 120 mA - 30 mA = 90 mA TYPICAL

BARRIER PARAMETERS

VT	\leq V MAX
IT	\leq I MAX
CA	\geq Ci + C cable
LA	\geq Li + L cable



All drawings and specifications are and remain the property of BEI Motion Systems Company. All specifications are confidential and are not to be disclosed to any persons other than those to whom they are sent. No drawings, specifications or other data belonging to BEI Motion Systems Company which may be furnished to manufacturers or others for any purpose are to be regarded as implication or otherwise in any manner licensing it a holder or any other person or corporation or conveying any rights or permission to manufacture, use or sell any patented invention that may in any way be related thereto.

Unless otherwise specified:
 Dimensions are in inches:
 Tolerances:
 XXX = .005
 XX = \pm .01

BEI Industrial Encoder Division
 BEI SENSORS AND SYSTEMS COMPANY
 7230 Hollister Avenue • Goleta, CA 93117-2891 • Tel: (805) 998-0782 • Fax: (805) 966-3154

Material: _____
 Drawn: _____
 App'd: *[Signature]*
 Scale: _____

Code Ident. No. **12050** Dwg. No. **924-08062-002** 1/2 Rev. **D**

Next Assy: 01061 Used on: 09173

SEE TABLE 1 AND NOTES 8 AND 9

THIS IS A CONTROLLED DOCUMENT FOR AGENCY APPROVAL

SIGNED *[Signature]* DATE 4-28-98

1. NON-HAZARDOUS AREA APPARATUS THAT IS UNSPECIFIED EXCEPT THAT IT MUST NOT BE SUPPLIED FROM NOR CONTAIN UNDER NORMAL OR ABNORMAL CONDITIONS A SOURCE OF POTENTIAL WITH RESPECT TO EARTH IN EXCESS OF 250V R.M.S. OR 250 V.D.C
2. INPUT AND OUTPUT BARRIERS: SAFETY BARRIERS THAT ARE CERTIFIED TO THE APPROPRIATE CLASS AND GROUP BY THE CERTIFICATION BODY OF THE COUNTRY OF USE.
3. ALL SAFETY BARRIERS ARE TO BE OF THE SAME POLARITY AND INCORPORATE A FUSE.
4. THE ELECTRICAL CIRCUITS IN THE HAZARDOUS AREA MUST BE CAPABLE OF SURVIVING A VOLTAGE WITHSTAND TEST OF 500V R.M.S. TO EARTH OR FRAME OF THE APPARATUS.
5. THE INSTALLATION MUST COMPLY WITH THE REGULATIONS OF THE COUNTRY OF USE.
- 5a NORTH AMERICAN INSTALLATIONS:
 - ALL INTRINSICALLY SAFE WIRING SHALL BE KEPT SEPARATE FROM NON-INTRINSICALLY SAFE WIRING. REFER TO ARTICLE 504 OF THE NATIONAL ELECTRICAL CODE
 - THE POWER SOURCE MUST BE ADJUSTED TO PROVIDE THE ENCODER VOLTAGE SPECIFIED IN TABLE 2. VOLTAGES GREATER THAN 10% OF THE NOMINAL ENCODER OPERATING VOLTAGE MAY DAMAGE THE ENCODER.
 - FUSES IN THE ZENER BARRIERS MAY RUPTURE IF INPUT VOLTAGE EXCEEDS MAX BARRIER VOLTAGE (Voc) IN TABLE 2.
 - HAZARDOUS AREA CABLE CAPACITANCE (C cable) AND INDUCTANCE (I cable) ARE CALCULATED BY MULTIPLYING THE CABLE LENGTH (IN FEET) BY THE NUMBER OF CONDUCTORS BY 60 pF / FT. AND 0.2 mH / FT. RESPECTIVELY. CABLE CAPACITANCE (C cable) AND INDUCTANCE (I cable) VALUES PLUS C_i AND L_i MUST NOT EXCEED VALUES OF C_A AND L_A DETERMINED BY BARRIER MANUFACTURER.
 - SYSTEM EVALUATED WITH ALL BARRIERS CONNECTED IN PARALLEL. V_T AND I_T ARE TOTAL INPUT BARRIER PARAMETERS WITH ALL INPUT BARRIER CHANNELS CONNECTED IN PARALLEL. REFER TO TABLE 2 FOR INDIVIDUAL CHANNEL BARRIER SPECIFICATIONS.
 - THIS DESIGN IS CERTIFIED BY UL / DEMKO. NO CHANGES ARE ALLOWED WITHOUT APPROVAL FROM UL / DEMKO OR EQUIVALENT CERTIFYING BODY.
11. WARNING: SUBSTITUTION OF COMPONENTS MAY IMPAIR INTRINSIC SAFETY. REPAIRS TO BE PERFORMED BY BEI ON.Y.

TELEMETERING EQUIPMENT
FOR USE IN HAZARDOUS LOCATIONS

TEMP CODE T3C
CLASS I GROUP C.D.
CLASS II GROUP E,F,G
CLASS I, ZONE 0, GROUP IIB
EX II B IIB 14

EX II B IIB 14
EX II B IIB 14
EX II B IIB 14

EX II B IIB 14
EX II B IIB 14
EX II B IIB 14

BEI Industrial Encoder Division
BEI SENSORS AND SYSTEMS COMPANY
7230 Hollister Avenue • Goleta, CA 93117-2891 • Tel: (805) 968-0782 • Fax: (805) 968-3154

MOD. NO. []
PART NO. []
CUST. NO. []

SER. NO. []
DATE []
VOC IN []

TYPICAL MODEL NUMBER:
H25D-1024-ABZC-4469-SM18-EX-S

SYMBOLS IN THESE AREAS MAY BE VARIED TO DENOTE STANDARD MECHANICAL VARIATIONS. THE '-S' IS USED TO DENOTE NON-STANDARD VARIATIONS.



Industrial Encoder Division
BEI SENSORS AND SYSTEMS COMPANY
7230 Hollister Avenue • Goleta, CA 93117-2891 • Tel: (805) 968-0782 • Fax: (805) 968-3154

Drawn *[Signature]*
App'd *[Signature]*
Scale

Code Ident. No. 12050
Rev. 2/2

924-08062-002

All drawings and specifications are and remain the property of BEI Motion Systems Company. All specifications are confidential and are not to be disclosed to any persons other than those to whom they are sent. No drawings, specifications or other data belonging to BEI Motion Systems Company which may be furnished to manufacturers or others for any purpose are to be regarded by implication or otherwise as in any manner licensing the holder or any other person or corporation or conveying any rights or permission to manufacture, use or sell any patented invention that may in any way be related thereto.

Unless otherwise specified:
Dimensions are in inches.
Tolerances:
XXX = .005
XX = ±.01

01061	09173	Used on
Next Assy		

MOHAWK

PARALLELOGRAM

50-26-S SURFACE MOUNT INSTALLATION REQUIREMENT DRAWINGS



MOHAWK RESOURCES LTD.

65 VROOMAN AVE.

AMSTERDAM, NY 12010

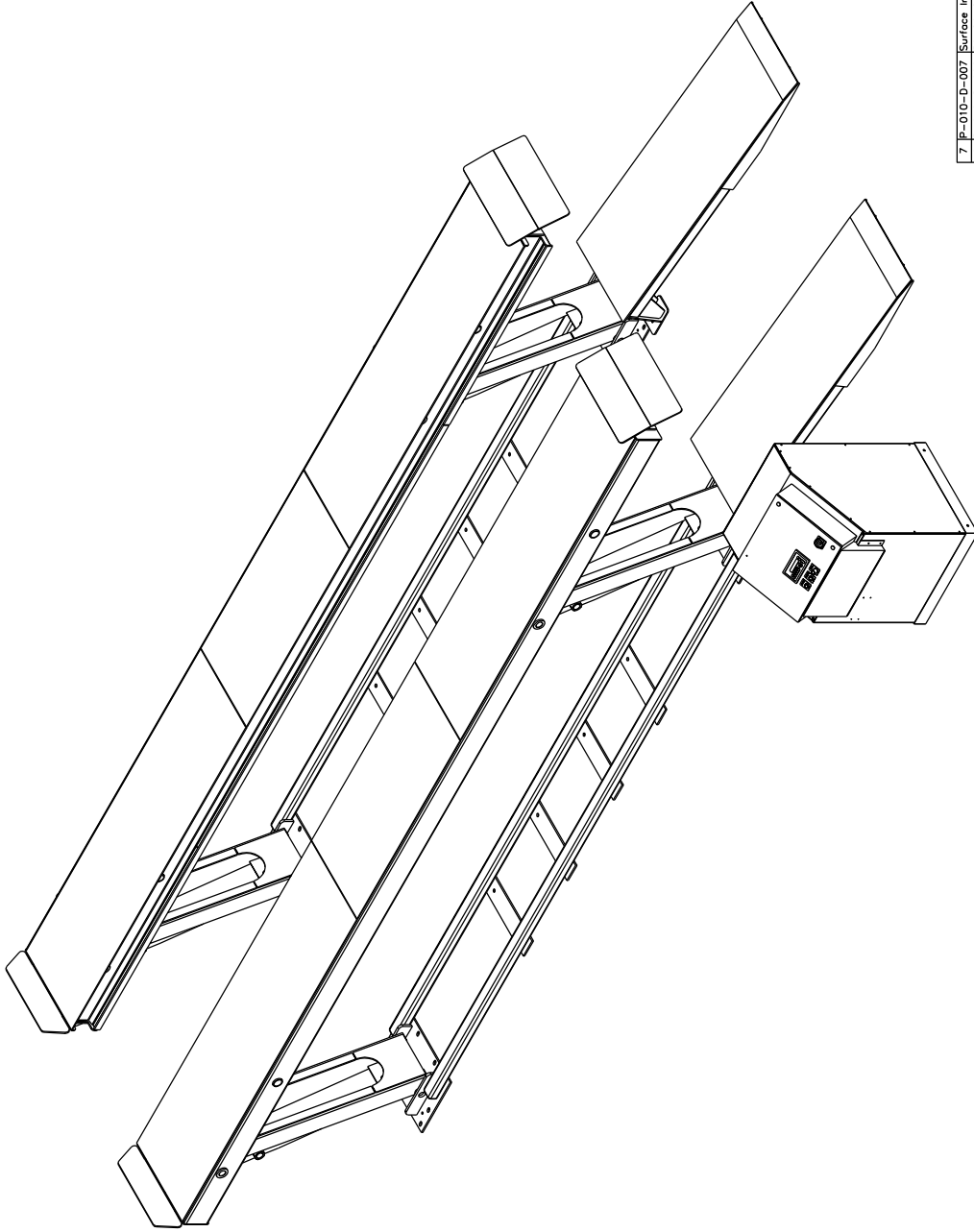
TOLL FREE: 1-800-833-2006

LOCAL: 1-518-842-1431

FAX: 1-518-842-1289

INTERNET: WWW.MOHAWKLIFTS.COM

E-MAIL: SERVICE@MOHAWKLIFTS.COM



50-26-SURFACE

PAGE 1 of 2

NOTICE OF CONFIDENTIAL INFORMATION
 INFORMATION CONTAINED HEREIN IS CONFIDENTIAL AND PROPERTY OF MOHAWK RESOURCES LTD. IT SHALL BE USED ONLY FOR THE PURPOSES OF APPROVED TO QUALIFY, SPECIFICATIONS TO E-700K ELECTRODES OR BY THE REQUIREMENTS FOR ANY OTHER PURPOSES AND SHALL BE DESTROYED UPON REQUEST.

NOTES:
 1. REMOVE ALL SHARP CORNERS & EDGES.
 2. ALL DIMENSIONS UNLESS SPECIFIED. SURFACE FINISH TO BE 125 RMS.
 3. WELDING MEDIUM SHALL CONFORM TO AWS SPECIFICATIONS TO E-700K ELECTRODES OR E-701 CODE 35 T501 CODE 40C 40C 40C 40C.

TOLERANCES:
 ANGULAR ± 1/30
 DIMENSIONAL ± .005
 DECIMAL ± .005
 HOLE ± .005

FILE NAME: P-010-A-001
DATE: 4/14/05
WEIGHT:
LENGTH:

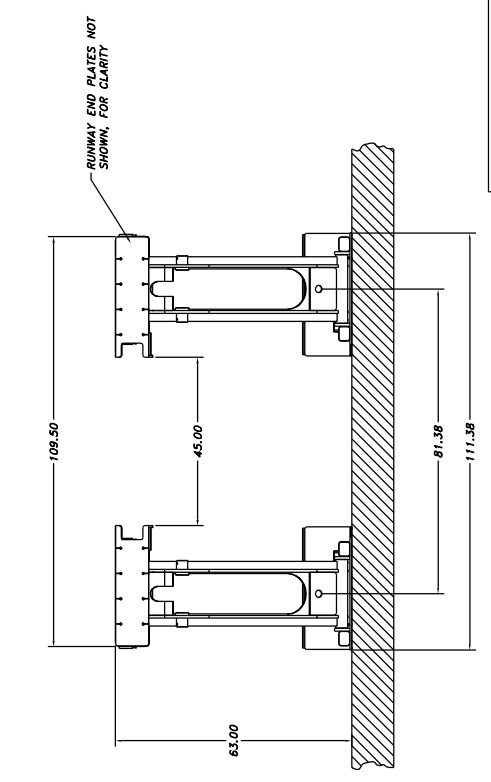
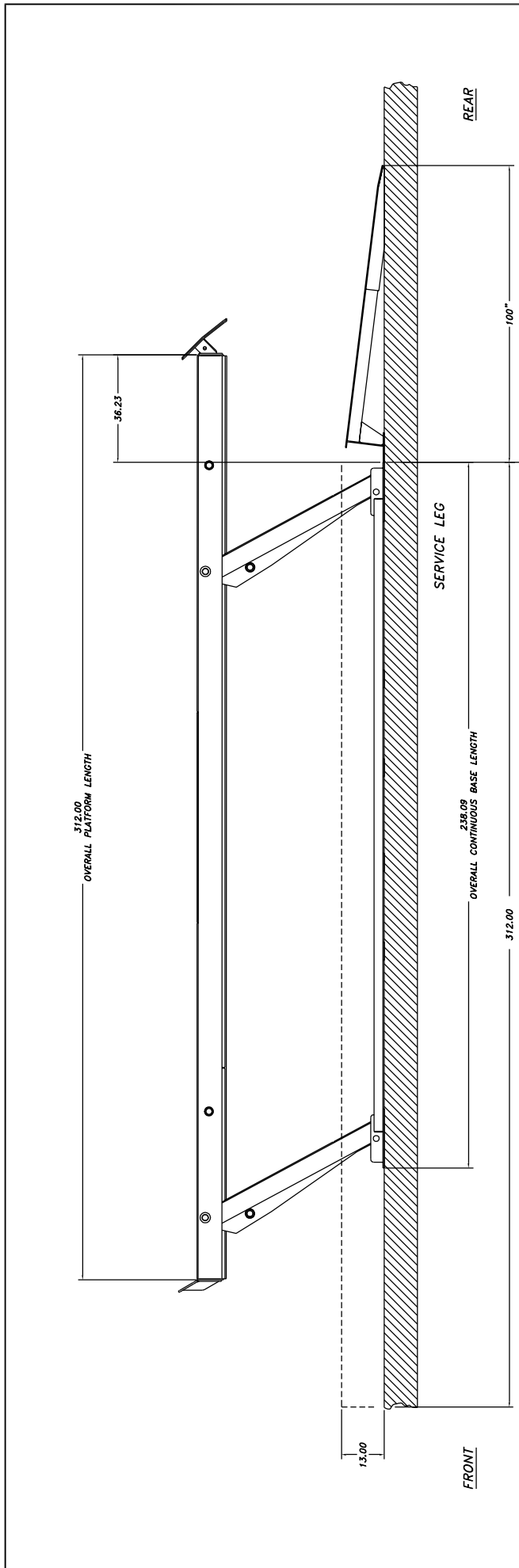
SCALE: 1/8"
CHECKED:
APPROVED:

DRAWN: ddk
TITLE: MOHAWK RESOURCES LTD. INSTALLATION REQUIREMENTS DRAWING, 50-26-SURFACE

FROM:
WEIGHT:
LENGTH:
DRAWING NUMBER: P-010-A-001

ITEM	NAME	DESCRIPTION	QTY	MATERIAL	VENDOR	NOTE	MASS	PRICE
7	P-010-D-007	Surface Installation General Notes	1				0.000	0.00
6	P-010-D-006	50-26-Surface Lift Data Table	1				0.000	0.00
5	P-010-D-005	Leg Components	1				0.000	0.00
4	P-010-D-004	Control Console & Sub-Up Details	1				0.000	0.00
3	P-010-D-003	Control Console & Sub-Up Details	1				0.000	0.00
2	P-010-D-002	Lift & Console Control Locations Section Views	1				0.000	0.00
1	P-010-D-001	50-26-Surface Standard Console Location Layout	1				0.000	0.00

Parts List



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.

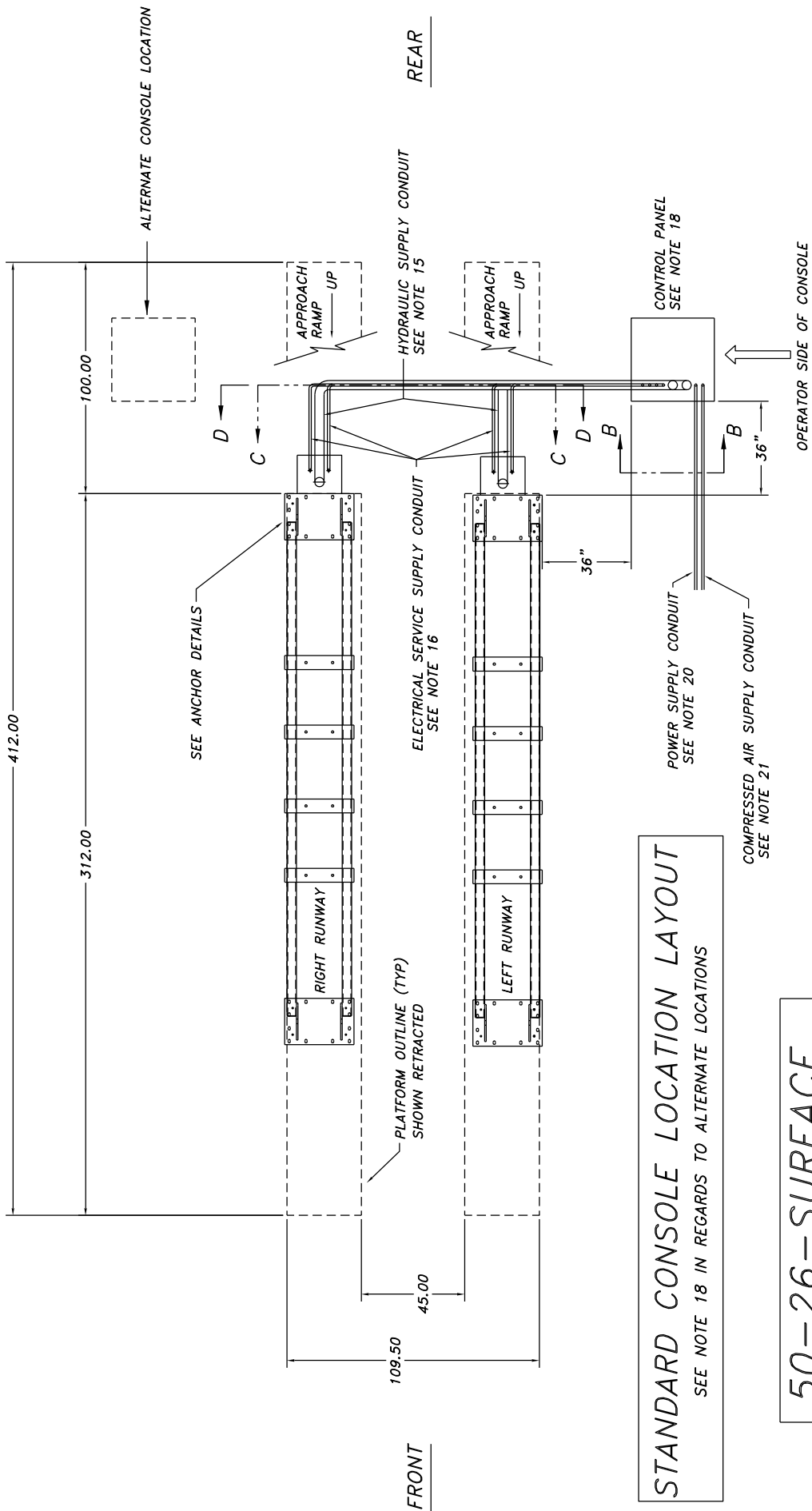
50-26-SURFACE

PAGE 2 of 2

NOTICE OF CONFIDENTIAL INFORMATION		NOTES:		TELERANCES:		P-010-		SCALE:		DRAWN:		MOHAWK RESOURCES LTD.	
1. REMOVE ALL SHARP CORNERS & EDGES 2. FINISH TO BE 125 RMS. 3. WELDING MEDIUM SHALL CONFORM TO AWS E-7011 CODE S.3 FLUX CODE WIRE ONLY OR E-7011 CODE S.3 FLUX CODE WIRE ONLY.		1. REMOVE ALL SHARP CORNERS & EDGES 2. FINISH TO BE 125 RMS. 3. WELDING MEDIUM SHALL CONFORM TO AWS E-7011 CODE S.3 FLUX CODE WIRE ONLY OR E-7011 CODE S.3 FLUX CODE WIRE ONLY.		1. ± 0.30 2. ± 0.08 3. ± 0.05		P-010- P-010-A-001		1/16		GAK		MOHAWK RESOURCES LTD.	
INFORMATION CONTAINED HEREIN IS CONFIDENTIAL AND PROPERTY OF IT SHALL BE USED ONLY FOR PURPOSES OF APPLICATION, INSTALLATION, OPERATION, MAINTENANCE, REPAIR AND SERVICE APPLICATIONS. ALL RIGHTS OF THE INVENTOR ARE RESERVED. NO OTHER REPRODUCTION, DISSEMINATION OR DISTRIBUTION OF THIS DOCUMENT FOR ANY OTHER PURPOSES IS ALLOWED.		1. REMOVE ALL SHARP CORNERS & EDGES 2. FINISH TO BE 125 RMS. 3. WELDING MEDIUM SHALL CONFORM TO AWS E-7011 CODE S.3 FLUX CODE WIRE ONLY OR E-7011 CODE S.3 FLUX CODE WIRE ONLY.		1. ± 0.30 2. ± 0.08 3. ± 0.05		P-010- P-010-A-001		CHECKED		APPROVED		TITLE	
						NEXT ASSEMBLY		DATE		WEIGHT		INSTALLATION REQUIREMENTS	
								4/19/03		LBS		DRAWING, 50-26-SURFACE	
										FRON		DRAWING NUMBER	
												P-010-A-001	
												PAGE 2 of 2	

FRONT ELEVATION VIEW

D-SIZE



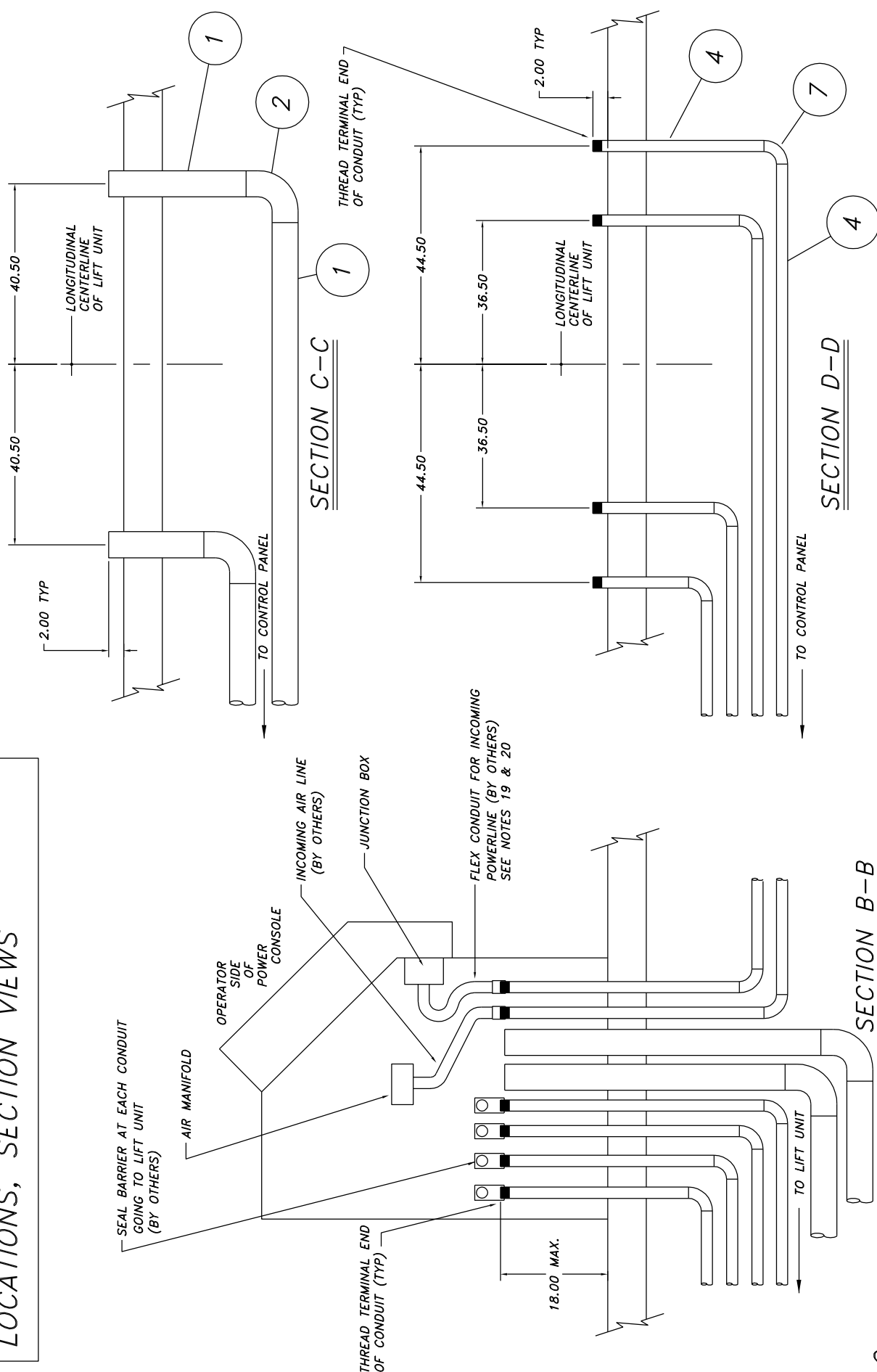
STANDARD CONSOLE LOCATION LAYOUT
 SEE NOTE 18 IN REGARDS TO ALTERNATE LOCATIONS

50-26-SURFACE

C-SIZE

<p>NOTICE OF CONFIDENTIAL INFORMATION</p> <p>INFORMATION CONTAINED HEREIN IS CONFIDENTIAL AND PROPERTY OF MOHAWK RESOURCES LTD., WHERE DRAWING IS FURNISHED TO OTHERS IT SHALL BE USED SOLELY FOR PURPOSES OF INSPECTION OR DISCLOSED BY THE RECIPIENT FOR ANY OTHER PURPOSES WHATSOEVER.</p>		<p>NOTES:</p> <ol style="list-style-type: none"> REMOVE ALL SHARP CORNERS & EDGES. UNLESS OTHERWISE SPECIFIED, SURFACE FINISH TO BE 125 RMS. WELDING MEDIUM SHALL CONFORM TO AWS SPECIFICATIONS TO E-70XX ELECTRODES OR E-70TT CODE 53 FLUX CORE WIRE ONLY. 		<p>TOLERANCES:</p> <p>ANGULAR ± 1°</p> <p>FRACTIONAL ± .030</p> <p>DECIMAL ± .005</p> <p>XXX</p>		<p>FILE NAME P-010-D-001</p>		<p>DATE 4/04</p>		<p>WEIGHT LB.</p>		<p>FROM P-010-D-001</p>	
<p>OPERATOR SIDE OF CONSOLE</p>		<p>NEXT ASSEMBLY</p>		<p>P-010-A-001</p>		<p>SCALE</p>		<p>DRAWN dgg</p>		<p>MOHAWK RESOURCES LTD.</p>			
<p>SEE ANCHOR DETAILS</p>		<p>SEE NOTE 15</p>		<p>SEE NOTE 16</p>		<p>SEE NOTE 18</p>		<p>SEE NOTE 20</p>		<p>SEE NOTE 21</p>		<p>TITLE 50-26-SURFACE STANDARD CONSOLE LOCATION LAYOUT</p>	

LIFT & CONSOLE SUBGRADE CONDUIT LOCATIONS, SECTION VIEWS



C-SIZE

NOTICE OF CONFIDENTIAL INFORMATION
 INFORMATION CONTAINED HEREIN IS CONFIDENTIAL AND PROPERTY OF MOHAWK RESOURCES LTD., WHERE DRAWING IS FURNISHED TO OTHERS FOR CONSTRUCTION, OPERATION, MAINTENANCE, REPAIR, REPLACEMENT OR MAINTENANCE. THE INFORMATION SHALL NOT BE USED OR DISCLOSED BY 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-70TTI CODE 5.3 FLUX CORE WIRE ONLY.

TOLERANCES:
 ANGULAR ± 1.0
 DIMENSIONAL ± 0.30
 DECIMAL ± 0.30
 DECIMAL ± 0.05
 FILE NAME P-010-D-002

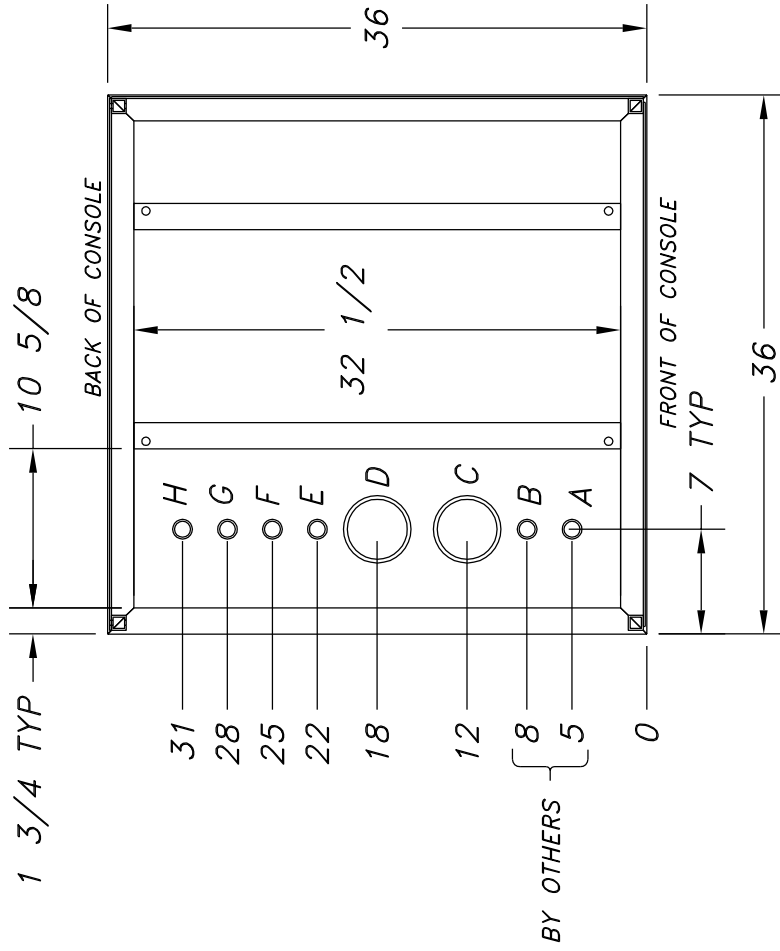
P-010-A-001
 NEXT ASSEMBLY

SCALE
 CHECKED
 DATE 4/03

DRAWN dak
 APPROVED
 WEIGHT LB.
 FROM

MOHAWK RESOURCES LTD.
 TITLE LIFT & CONSOLE CONDUIT LOCATIONS, SECTION VIEWS
 DRAWING NUMBER P-010-D-002

TOP VIEW OF CONSOLE FRAME

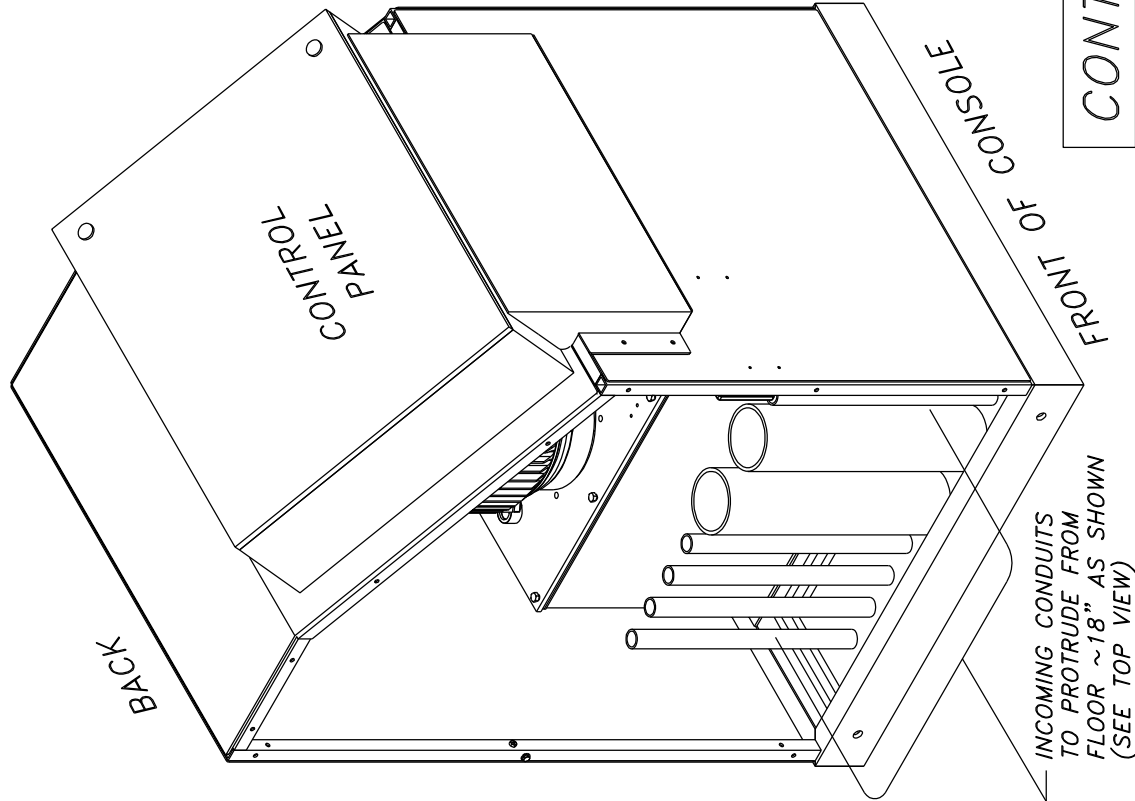


CONDUIT SIZES & APPLICATION:

- 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

CUSTOMER PREFERENCE OPTIONAL

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



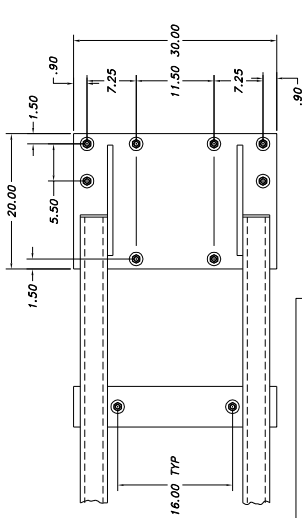
CONTROL CONSOLE & STUB-UP DETAILS

NOTICE OF CONFIDENTIAL INFORMATION
 THIS DRAWING IS THE PROPERTY OF MOHAWK RESOURCES LTD. IT IS TO BE USED ONLY FOR THE PROJECT AND SHALL NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM. WITHOUT THE WRITTEN PERMISSION OF MOHAWK RESOURCES LTD.

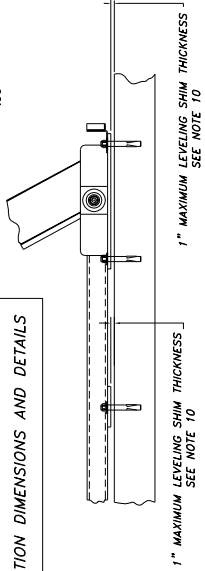
NOTES:
 1. INCLUDE ALL SHARP CORNERS & EDGES.
 2. FINISH TO BE AS SPECIFIED. SURFACE FINISH TO BE AS SHOWN.
 3. SPECIFICATIONS TO E-70XX ELECTRICALS OR E-7011 CODE 53 FLOW CORE WIRE ONLY.
 FILE NAME: P-010-0-003
 NEXT ASSEMBLY

SCALE	P-010-A-001	MOHAWK RESOURCES LTD.
CHECKED		TITLE
DATE	4/03	STUB-UP DETAILS
WEIGHT		FROM
LB		P-010-D-003

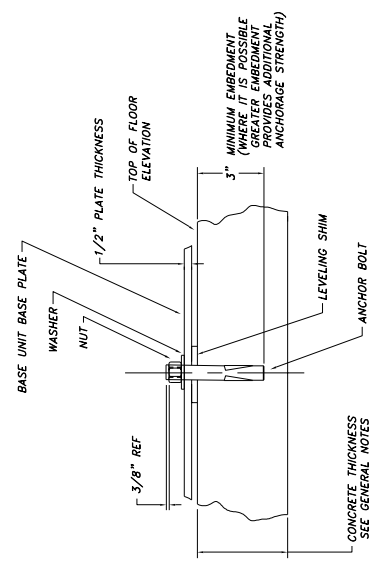
ANCHOR DETAILS & SHIMMING



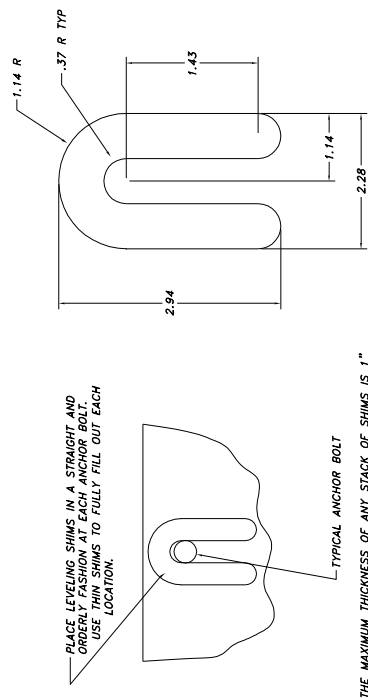
ANCHOR BOLT LOCATION DIMENSIONS AND DETAILS



ANCHOR BOLT DETAIL



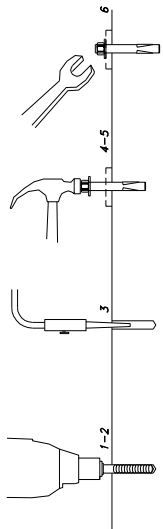
PLACEMENT OF LEVELING SHIM DETAIL



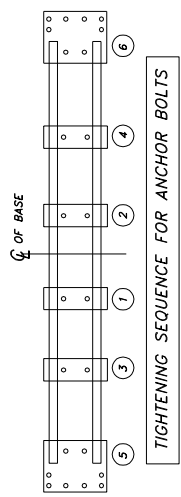
LEVELING SHIM DETAIL

INSTALLATION INSTRUCTIONS

1. DRILL THE HOLE PERPENDICULAR TO THE WORK SURFACE. *TO ASSURE FULL HOLDING POWER, DO NOT REAM THE HOLE OR ALLOW THE DRILL TO Wobble.
2. DRILL THE HOLE DEEPER THAN THE INTENDED EMBEDMENT 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 ONTO THE ANCHOR UNTIL CONTACT IS MADE WITH THE TOP OF THE SPEARS AND THE BOTTOM OF THE WASHER. INSERT ANCHOR INTO HOLE.
5. TAP ANCHOR INTO HOLE WITH A 2 1/2 LBS HAMMER UNTIL WASHER RESTS SOLIDLY AGAINST FIXTURE.
6. TIGHTEN THE NUT TO 175 FT-LBS MAXIMUM TORQUE AND NOT LESS THAN 3 (TYPICAL) TURN OF THE HANDLE USING THE TORQUE WRENCH. (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 ANSI B272.15 DIAMETER STANDARDS.



TIGHTENING SEQUENCE FOR ANCHOR BOLTS

APPROVED ANCHOR BOLTS PROVIDED BY MOHAWK LIFT.

ANCHOR BOLTS ARE MANUFACTURED BY

WEJ-IT FASTENING SYSTEMS
 2115 E. 10TH ST.
 TULSA, OKLAHOMA 74104
 PHONE 918-744-7444
 OR 800-343-1264
 WEB SITE WWW.WEJIT.COM

ANCHORS SPECIFIED ARE: "THE ORIGINAL WEJ-IT" EXPANSION ANCHORS, 3/4 DIA

CATALOG NUMBER
 3460
 3465
 3470
 3475

NO OTHER ANCHOR BOLT SUBSTITUTIONS ARE PERMITTED WITHOUT WRITTEN APPROVAL FROM MOHAWK RESOURCES, LTD. UNDER CERTAIN CIRCUMSTANCES EPOXY GROUTED THREADED ROD ANCHORAGE MAY BE USED BUT APPROVAL OF SUCH USE OF SUCH REQUIRE WRITTEN APPROVAL OF MOHAWK RESOURCES, LTD. THE ABOVE INFORMATION IS FOR INFORMATION ONLY. IT DOES NOT CONSTITUTE A CONTRACT. 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

1. REVEALS ALL SHIMS, CORNERS & EDGES.
 2. FINISH TO BE 125 RMS.
 3. WELDING METHOD SHALL CONFORM TO AWS E-701 CODE 5.3 FLUX CORE WIRE ONLY.

TELEFRANCES

1. 0.000
 2. 0.000
 3. 0.000
 4. 0.000
 5. 0.000
 6. 0.000
 7. 0.000
 8. 0.000
 9. 0.000
 10. 0.000

SCALE

P-010-A-001

SCALE

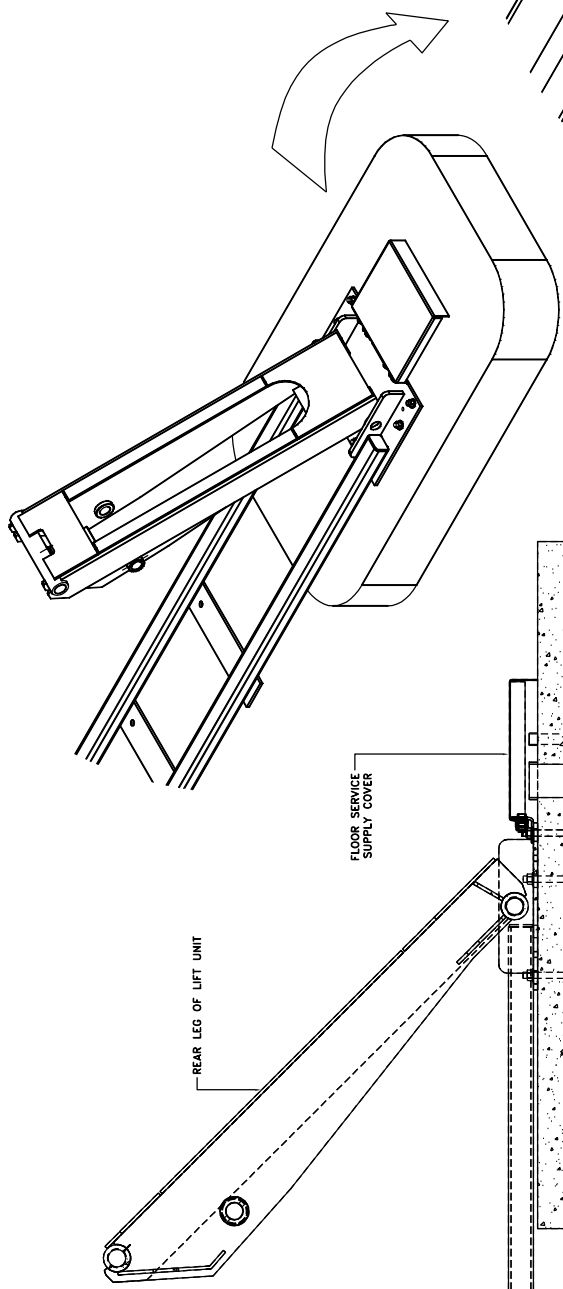
CHECKED DATE 4/83

BROWN GASK

APPROVED WEIGHT FROM

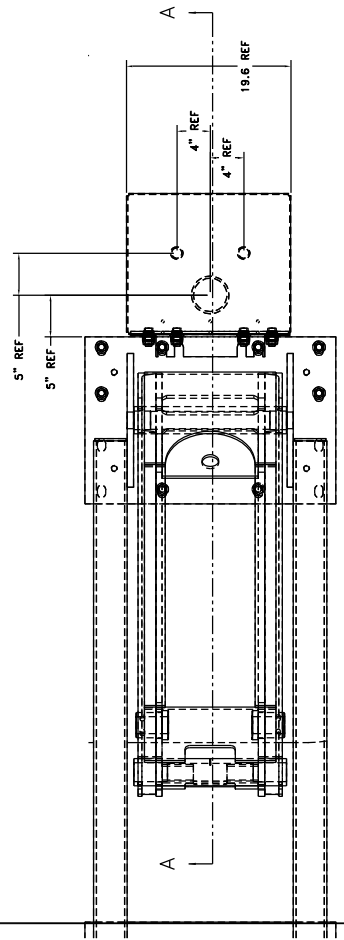
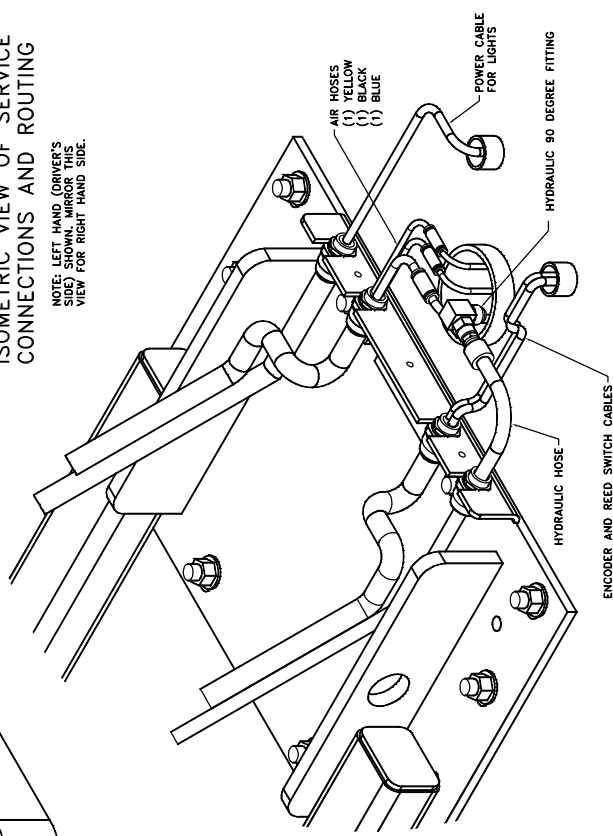
MOHAWK RESOURCES LTD.

ANCHOR DETAILS & SHIMMING



ISOMETRIC VIEW OF SERVICE CONNECTIONS AND ROUTING

NOTE: LEFT HAND (DRIVER'S SIDE) VIEW AND RIGHT HAND (PASSENGER'S SIDE) VIEW FOR RIGHT HAND SIDE.



NOTICE OF CONFIDENTIAL INFORMATION

THIS DRAWING IS THE PROPERTY OF MOHAWK RESOURCES LTD. AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF MOHAWK RESOURCES LTD. THE INFORMATION CONTAINED HEREIN IS UNCLASSIFIED EXCEPT WHERE SHOWN OTHERWISE.

TO: DRIVES	SCALE	DATE	FILE NAME
ANGULAR	1/8	4/15/03	P-010-D-005
RECTANGULAR			
DIAMETER			
OR DIA.			

1. REMOVE ALL SHARP CORNERS & EDGES.
2. UNLESS OTHERWISE SPECIFIED, SURFACE FINISH SHALL BE AS SHOWN.
3. WELDING SHALL BE PERFORMED TO AWS SPECIFICATIONS TO E-70XX ELECTRODES OR E-70T1 CODE 5.3 FLUX CORE WIRE ONLY.

APPROVED	DATE	WEIGHT	FROM
PHV2089	4/15/03	n/a	n/a
CHECKED			

MOHAWK RESOURCES LTD.
TITLE: Parallelgram Installation
Service Leg Control Details
DRAWING NUMBER: P-010-D-005

LIFT DATA TABLE	
MOHAWK RESOURCES, LTD PARALLELOGRAM LIFT MODEL 50-26-SURFACE	
LIFT UNIT DATA	--
MAXIMUM LOAD CAPACITY (LBS)	50,000
ANCHORAGE	--
ANCHOR BOLT DIAMETER (IN.)	3/4"
TOTAL NUMBER OF ANCHOR BOLTS	48
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
208/230 V 3 PH	60 AMPERE
or 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 6
SHOP AIR	--
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.			
12	1	LOCKOUT/TAGOUT DISCONNECT BOX	PER LOCAL ELECTRICAL CODES
11*	AR	LEVELING SHIMS	1/16", 1/8", 1/4" THICK
10*	48	3/4" x 5" ANCHOR BOLT ASSEMBLY	WEJ-IT - WEDGE ANCHORS
9	4	1" SEAL BARRIER	CROUSE - HINDS EYS3
8	4	1-3/4" REDUCER BUSHING	CROUSE - HINDS RE32
7	4	1" SCH 40-90 DEG ELBOW	CROUSE - HINDS EL3
6*	1	JUNCTION BOX (IN CONSOLE)	STEEL
5	AR	SEALTITE FLEXIBLE CONDUIT	METAL CORE
4	AR	1" RIGID CONDUIT	STEEL
3	1	FILTER/LUBRICATOR/REGULATOR, DRYER SHUTOFF	
2	AR	4" SCH 40 STREET ELBOW	STEEL or PVC
1	AR	4" SCH 40 PIPE	STEEL or PVC
ITEM	QTY	DESCRIPTION	MATERIAL
		* ITEMS SUPPLIED BY MOHAWK WITH THE LIFT UNIT	

NOTICE OF CONFIDENTIAL INFORMATION
 INFORMATION CONTAINED HEREIN IS CONFIDENTIAL AND PROPERTY OF MOHAWK RESOURCES LTD. WHERE DRAWING IS FURNISHED TO OTHERS IT SHALL BE USED SOLELY FOR PURPOSES OF INSPECTION, INSTALLATION, REPAIR, MAINTENANCE, OR REPRODUCTION OF THE ORIGINAL DRAWING BY THE RECIPIENT FOR ANY OTHER PURPOSES WHATSOEVER.

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

TOLERANCES:
 ANGULAR ± 1.0
 FRACTIONAL ± .030
 DECIMAL ± .005
 0.XXX ± .005
 FILE NAME P-010-D-006

P-010-A-001
 NEXT ASSEMBLY

SCALE
 CHECKED
 DATE 4/03

DRAWN *clak*
 APPROVED
 WEIGHT LB.

MOHAWK RESOURCES LTD.
 TITLE 50-26-SURFACE
 LIFT DATA TABLE
 FROM
 DRAWING NUMBER P-010-D-006

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 FOR THE SOIL CONDITIONS AND VEHICLE LOAD LEVEL. THE REINFORCING SHALL BE DETERMINED BY OTHERS. AT A MINIMUM TWO LAYERS OF 6 X 6 10/10 WELDED WIRE 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 EASE OF ANCHOR INSTALLATION. ALSO, PROVIDE A MINIMUM 9 INCH THICKNESS AROUND AND TO THE REAR OF THE SERVICE LEGS.

FOR NEW CONSTRUCTION WHERE IN FLOOR RADIANT HEATING TUBES ARE USED, THESE TUBES MAY BE PLACED UNDER THE LIFT AREA PROVIDED THE SLAB IS CAST SUFFICIENTLY THICK. A MINIMUM OF 6 INCHES CLEARANCE SHOULD BE PROVIDED FOR ANCHOR BOLTS AND DRILLING ALLOWMENT. 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 8
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 9
A MAXIMUM OF ONE INCH ANCHOR BOLT SHIM THICKNESS IS PERMITTED. INDIVIDUAL ANCHOR BOLT SHIMS ARE AVAILABLE IN A RANGE OF THICKNESSES.

NOTE 10
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 LEVELLED USING INDIVIDUAL ANCHOR BOLT SHIMS.

NOTE 11
WELT FASTENING 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 12
IN CERTAIN CASES THE FLOOR SLAB MAY HAVE ADEQUATE STRENGTH TO SUPPORT THE LIFT UNIT BUT MAY NOT BE THICK ENOUGH TO PROVIDE THE MINIMUM EMBEDMENT DEPTH FOR THE AT WE-JT ANCHOR BOLTS. FOR THIS SITUATION EPOXY GROUTED ANCHOR RODS MAY BE USED. CONTACT MOHAWK RESOURCES, LTD. FOR WRITTEN APPROVAL OF EPOXY GROUTED ANCHORS AND PROCEDURES AND APPROVED MATERIALS FOR INSTALLING 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 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 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 DEVIATIONS FROM THE ENCLOSED 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 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
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 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 (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.

NOTICE OF CONFIDENTIAL INFORMATION
INFORMATION CONTAINED HEREIN IS CONFIDENTIAL AND PROPERTY OF MOHAWK RESOURCES LTD. IT IS TO BE KEPT SECRET AND NOT TO BE DISCLOSED OR REPRODUCED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF MOHAWK RESOURCES LTD. THIS NOTICE IS FOR YOUR INFORMATION AND IS NOT TO BE USED FOR ANY OTHER PURPOSES WHATSOEVER.

TOLERANCES UNLESS OTHERWISE SPECIFIED		P-010-A-001		SCALE		DRAWN		MOHAWK RESOURCES LTD.	
1	± .005			1	AS SHOWN	DATE	APPROVED	TITLE	SURFACE INSTALLATION
2	± .010			2	UNLESS OTHERWISE SPECIFIED	CHECKED		GENERAL	NOTES
3	± .015			3	FINISH TO BE EPS RIMS	DATE	WEIGHT	LB	FROM
4	± .020			4	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS	P-010-D-007		REV. NO. 001	
5	± .025			5	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 002	
6	± .030			6	E-7011 CODE 5.3 FLUX CORE WIRE ONLY			REV. NO. 003	
7	± .035			7	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 004	
8	± .040			8	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 005	
9	± .045			9	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 006	
10	± .050			10	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 007	
11	± .055			11	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 008	
12	± .060			12	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 009	
13	± .065			13	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 010	
14	± .070			14	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 011	
15	± .075			15	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 012	
16	± .080			16	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 013	
17	± .085			17	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 014	
18	± .090			18	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 015	
19	± .095			19	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 016	
20	± .100			20	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 017	
21	± .105			21	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 018	
22	± .110			22	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 019	
23	± .115			23	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 020	
24	± .120			24	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 021	
25	± .125			25	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 022	
26	± .130			26	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 023	
27	± .135			27	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 024	
28	± .140			28	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 025	
29	± .145			29	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 026	
30	± .150			30	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 027	
31	± .155			31	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 028	
32	± .160			32	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 029	
33	± .165			33	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 030	
34	± .170			34	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 031	
35	± .175			35	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 032	
36	± .180			36	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 033	
37	± .185			37	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 034	
38	± .190			38	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 035	
39	± .195			39	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 036	
40	± .200			40	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 037	
41	± .205			41	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 038	
42	± .210			42	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 039	
43	± .215			43	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 040	
44	± .220			44	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 041	
45	± .225			45	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 042	
46	± .230			46	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 043	
47	± .235			47	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 044	
48	± .240			48	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 045	
49	± .245			49	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 046	
50	± .250			50	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 047	
51	± .255			51	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 048	
52	± .260			52	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 049	
53	± .265			53	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 050	
54	± .270			54	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 051	
55	± .275			55	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 052	
56	± .280			56	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 053	
57	± .285			57	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 054	
58	± .290			58	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 055	
59	± .295			59	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 056	
60	± .300			60	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 057	
61	± .305			61	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 058	
62	± .310			62	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 059	
63	± .315			63	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 060	
64	± .320			64	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 061	
65	± .325			65	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 062	
66	± .330			66	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 063	
67	± .335			67	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 064	
68	± .340			68	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 065	
69	± .345			69	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 066	
70	± .350			70	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 067	
71	± .355			71	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 068	
72	± .360			72	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 069	
73	± .365			73	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 070	
74	± .370			74	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 071	
75	± .375			75	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 072	
76	± .380			76	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 073	
77	± .385			77	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 074	
78	± .390			78	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 075	
79	± .395			79	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 076	
80	± .400			80	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 077	
81	± .405			81	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 078	
82	± .410			82	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 079	
83	± .415			83	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 080	
84	± .420			84	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 081	
85	± .425			85	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 082	
86	± .430			86	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 083	
87	± .435			87	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 084	
88	± .440			88	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 085	
89	± .445			89	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 086	
90	± .450			90	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 087	
91	± .455			91	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 088	
92	± .460			92	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 089	
93	± .465			93	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 090	
94	± .470			94	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 091	
95	± .475			95	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 092	
96	± .480			96	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 093	
97	± .485			97	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 094	
98	± .490			98	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 095	
99	± .495			99	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 096	
100	± .500			100	WELDING MEDIUM SHIM CONDUCTIVE TO JOBS			REV. NO. 097	

SURFACE LIFTS ONLY

MOHAWK

PARALLELOGRAM

50-26-F FLUSH MOUNT INSTALLATION REQUIREMENT DRAWINGS



MOHAWK RESOURCES LTD.

65 VROOMAN AVE.

AMSTERDAM, NY 12010

TOLL FREE: 1-800-833-2006

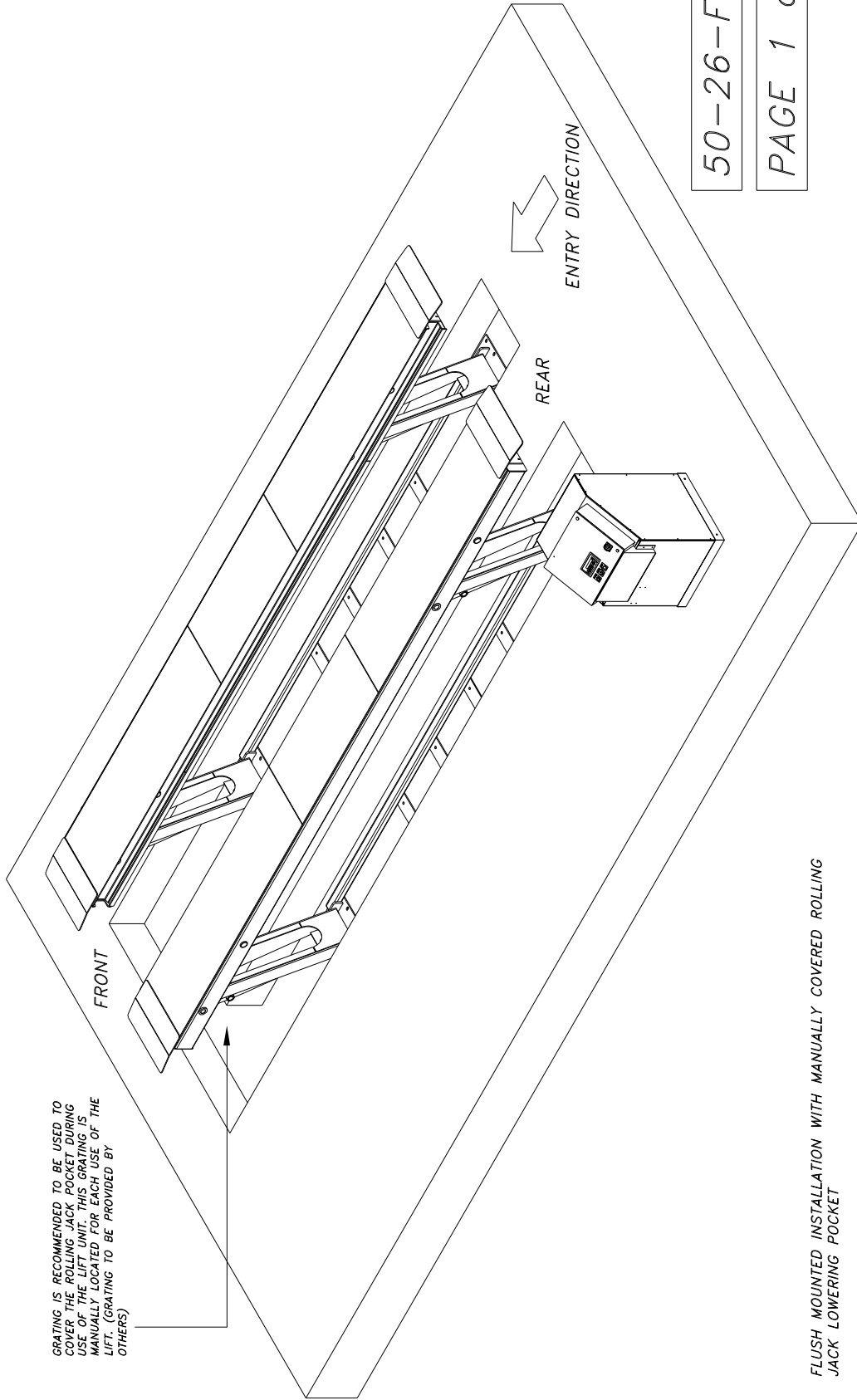
LOCAL: 1-518-842-1431

FAX: 1-518-842-1289

INTERNET: WWW.MOHAWKLIFTS.COM

E-MAIL: SERVICE@MOHAWKLIFTS.COM

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. (GRATING TO BE PROVIDED BY OTHERS)



50-26-FLUSH

PAGE 1 of 2

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. ALLOW APPROXIMATELY 60 INCHES AT THE REAR OF THE LIFT FOR THIS MOTION.

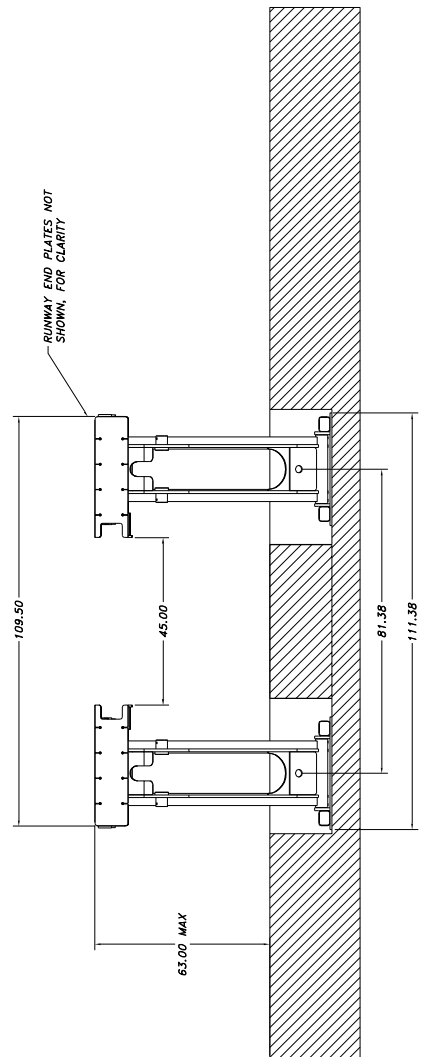
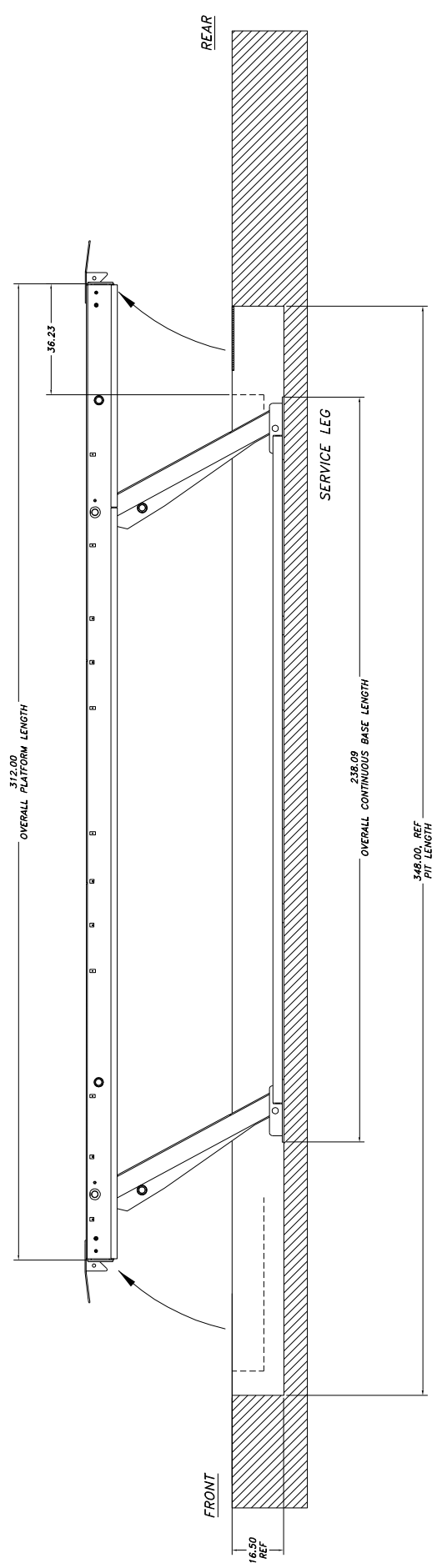
D-size

ITEM	NAME	QTY	DESCRIPTION	VENDOR	NOTE	MASS	PRICE
6	P-010-D-012	1	Flush Installation General Notes			0.000	0.00
5	P-010-D-011	1	50-26-Flush Lift Data Table			0.000	0.00
4	P-010-D-010	1	50-26-Flush, Pft. Drawings & Sections			0.000	0.00
3	P-010-D-005	1	Service Leg Conduit Details			0.000	0.00
2	P-010-D-004	1	Anchor Details & Shimming			0.000	0.00
1	P-010-D-003	1	Control Console & Sub-Up Details			0.000	0.00

Parts List		SCALE	DRAWN	MOHAWK RESOURCES LTD.
P-010-		1/8	504	INSTALLATION REQUIREMENTS
TOLERANCES:		CHECKED	APPROVED	DRAWING, JOB P-010-4-002
FRACTIONAL ± 0.06		DATE	WEIGHT	FROM
DECIMAL ± 0.03		5/21/03	1.8	
MIL ± 0.01		NEXT ASSEMBLY		
P-010-A-002				

NOTICE OF CONFIDENTIAL INFORMATION
 INFORMATION CONTAINED HEREIN IS CONFIDENTIAL AND PROPERTY OF MOHAWK RESOURCES LTD. IT IS TO BE KEPT SECRET AND NOT DISCLOSED OR REPRODUCED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF MOHAWK RESOURCES LTD. THIS INFORMATION IS NOT TO BE USED FOR ANY OTHER PURPOSES WITHOUT THE WRITTEN PERMISSION OF MOHAWK RESOURCES LTD.

NOTES:
 1. FINISH TO BE 125 RMS.
 2. UNLESS OTHERWISE SPECIFIED, SURFACE FINISH TO BE 125 RMS.
 3. SPECIFICATIONS TO C-7000 ELECTROLIFT OR E-7011 CODE S3 FLUX CURB WIRE ONLY.



50-26-FLUSH

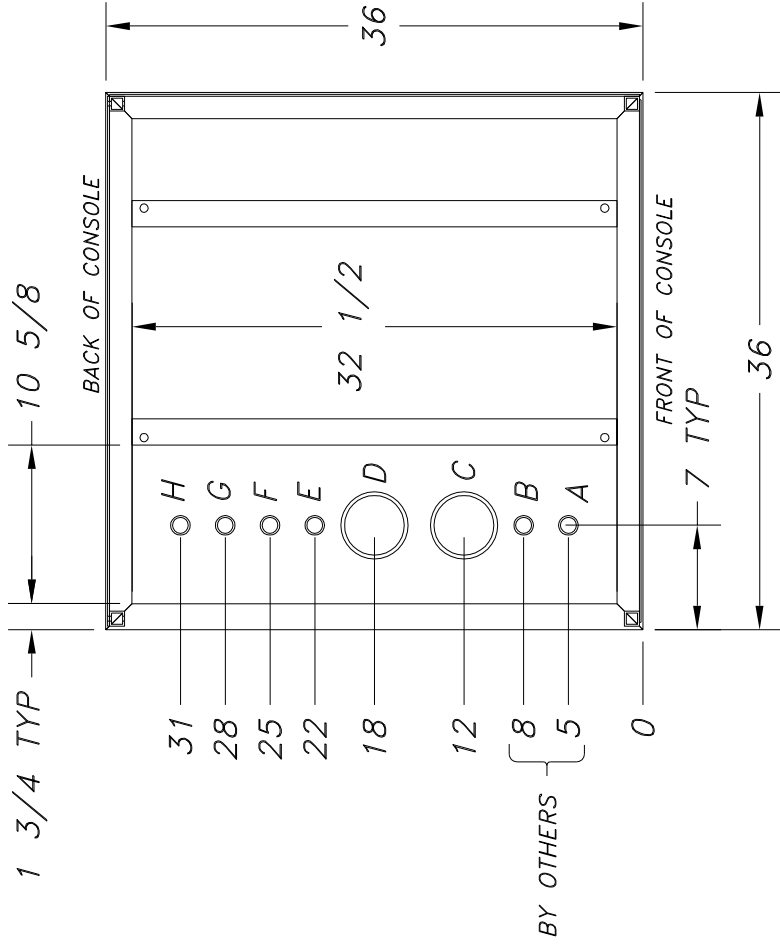
PAGE 2 of 2

<p>NOTICE OF CONFIDENTIAL INFORMATION</p> <p>INFORMATION CONTAINED HEREIN IS CONFIDENTIAL AND PROPERTY OF MOHAWK RESOURCES LTD. IT SHALL BE USED ONLY FOR THE PURPOSES OF INSPECTION, INSTALLATION, MAINTENANCE, REPAIR, OR REWORK OF THE EQUIPMENT OR FACILITIES OF THE RECIPIENT FOR ANY OTHER PURPOSES WITHOUT THE WRITTEN CONSENT OF MOHAWK RESOURCES LTD.</p>		<p>TELERANCES:</p> <p>ASSEMBLY ± 1.00</p> <p>FINISH ± 0.05</p> <p>DRILL ± 0.05</p> <p>MAX ± 0.05</p> <p>FILE NAME: P-010-A-002</p>	<p>P-010-</p> <p>NEXT ASSEMBLY</p>	<p>SCALE: 1/16</p> <p>CHECKED: DATE: 3/23/03</p>	<p>DRAWN: PMW7099</p> <p>APPROVED: DATE: 3/23/03</p>	<p>MOHAWK RESOURCES LTD.</p> <p>TITLE: INSTALLATION REQUIREMENTS DRAWING, 50-26-FLUSH</p>	<p>DRAWING NUMBER: P-010-A-002</p> <p>PAGE 2 of 2</p>
--	--	--	------------------------------------	--	--	---	---

FRONT ELEVATION VIEW

D-SIZE

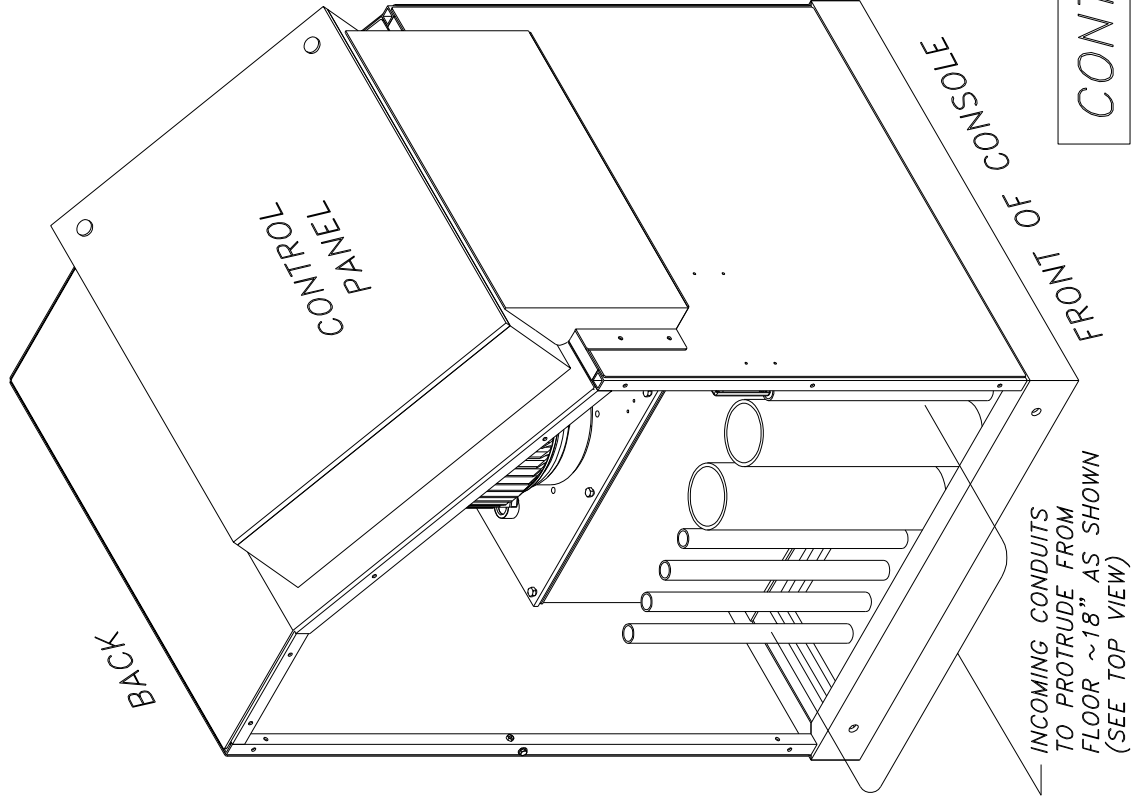
TOP VIEW OF CONSOLE FRAME



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
- CUSTOMER PREFERENCE OPTIONAL

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



NOTICE OF CONFIDENTIAL INFORMATION

ALL INFORMATION CONTAINED HEREIN IS CONFIDENTIAL AND PROPERTY OF MOHAWK RESOURCES LTD. THESE DRAWINGS ARE TO BE USED ONLY FOR THE PROJECT AND NOT TO BE REPRODUCED, COPIED, OR DISCLOSED TO ANY OTHER PARTY WITHOUT THE WRITTEN APPROVAL OF MOHAWK RESOURCES LTD.

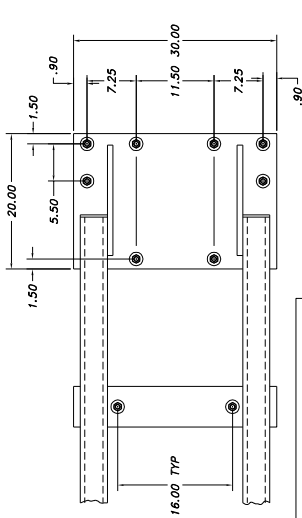
- NOTES:
1. REMOVE ALL SHARP CORNERS & EDGES.
 2. UNLESS OTHERWISE SPECIFIED, SURFACE FINISH SHALL BE AS SHOWN.
 3. WELDING METIUM SHALL CONFORM TO AWS SPECIFICATIONS TO E-70XX ELECTRODES OR E-70XX CORE 55 FLUX CORE WIRE ONLY.

TOLERANCES:	1. 1/32
FINISHES:	1. 1/32
SECTIONAL:	1. 1/32
FILE NAME:	P-010-D-003

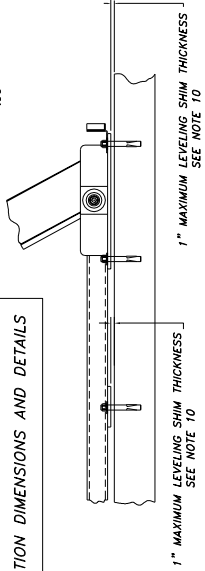
SCALE	AS SHOWN
CHECKED	
DATE	4/03
NEXT ASSEMBLY	

MOHAWK RESOURCES LTD.	DRWN	CHK	SCALE	P-010-D-001
TITLE	APPROVED	CHECKED	DATE	FILE NAME
CONTROL CONSOLE & STUB-UP DETAILS			4/03	P-010-D-003
FROM	WEIGHT	LB		
DRAWING NUMBER				
P-010-D-003				

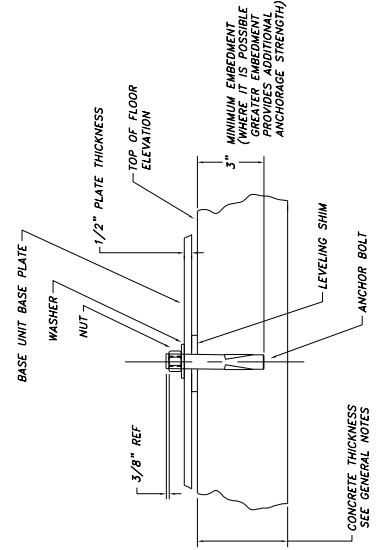
ANCHOR DETAILS & SHIMMING



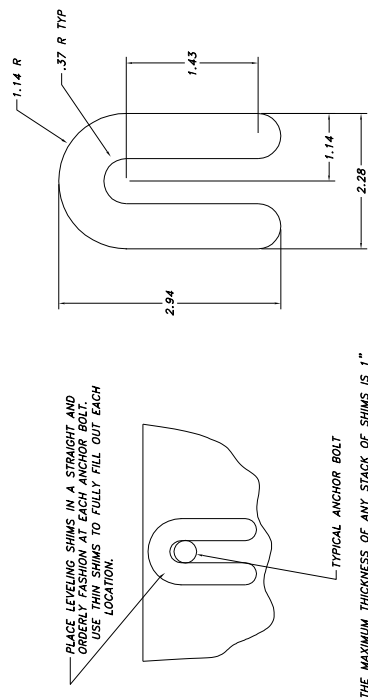
ANCHOR BOLT LOCATION DIMENSIONS AND DETAILS



ANCHOR BOLT DETAIL



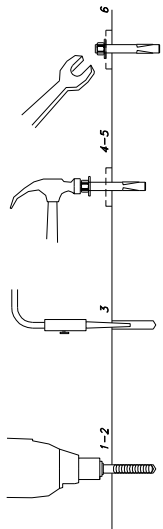
PLACEMENT OF LEVELING SHIM DETAIL



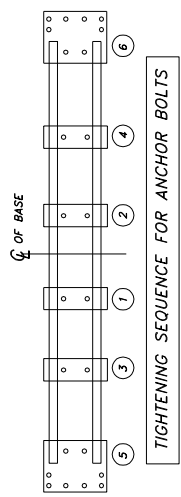
LEVELING SHIM DETAIL

INSTALLATION INSTRUCTIONS

1. DRILL THE HOLE PERPENDICULAR TO THE WORK SURFACE. *TO ASSURE FULL HOLDING POWER, DO NOT REAM THE HOLE OR ALLOW THE DRILL TO Wobble.
2. DRILL THE HOLE DEEPER THAN THE INTENDED EMBEDMENT 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 ONTO THE ANCHOR UNTIL CONTACT IS MADE WITH THE TOP OF THE SPEARS AND THE BOTTOM OF THE WASHER. INSERT ANCHOR INTO HOLE.
5. TAP ANCHOR INTO HOLE WITH A 2 1/2 LBS HAMMER UNTIL WASHER RESTS SOLIDLY AGAINST FIXTURE.
6. TIGHTEN THE NUT TO 175 FT-LBS MAXIMUM TORQUE AND NOT LESS THAN 3 (TYPICAL) TURN OF THE HANDLE USING A 3/4\"/>



*ALWAYS WEAR SAFETY GLASSES. FOLLOW THE DRILL MANUFACTURER'S SAFETY INSTRUCTIONS. USE ONLY SOLID CARBIDE-TIPPED DRILL BITS MEETING ANSI B272.15 DIAMETER STANDARDS.



TIGHTENING SEQUENCE FOR ANCHOR BOLTS

APPROVED ANCHOR BOLTS PROVIDED BY MOHAWK LIFT.

ANCHOR BOLTS ARE MANUFACTURED BY

WEJ-IT FASTENING SYSTEMS
 2115 E. 10TH ST.
 TULSA, OKLAHOMA 74104
 PHONE 918-744-7444
 OR 800-343-1264
 WEB SITE WWW.WEJIT.COM

ANCHORS SPECIFIED ARE: "THE ORIGINAL WEJ-IT" EXPANSION ANCHORS, 3/4 DIA

CATALOG NUMBER
 3460
 3465
 3470
 3475
 3480
 3485
 3490
 3495
 3500

NO OTHER ANCHOR BOLT SUBSTITUTIONS ARE PERMITTED WITHOUT WRITTEN APPROVAL FROM MOHAWK RESOURCES, LTD. UNDER CERTAIN CIRCUMSTANCES EPOXY GROUTED THREADED ROD ANCHORAGE MAY BE USED BUT APPROVAL OF SUCH REQUIREMENTS WRITTEN APPROVAL OF MOHAWK RESOURCES, LTD. IS REQUIRED. THE USER SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY DOCUMENTED STRENGTH TO MEET THE CERTIFICATION REQUIREMENTS OF THE AUTOMOTIVE LIFT INSTITUTE AND MAY AFFECT THE CERTIFICATION OF THE INSTALLATION.

NOTICE OF CONFIDENTIAL INFORMATION

1. REVEALS ALL SHIMS, CORNERS & EDGES.
 2. FINISH TO BE 125 RMS.
 3. WELDING METHOD SHALL CONFORM TO AWS E-701 CODE 5.3 FLUX CORE WIRE ONLY OR E-701 CODE 5.3 FLUX CORE WIRE ONLY.

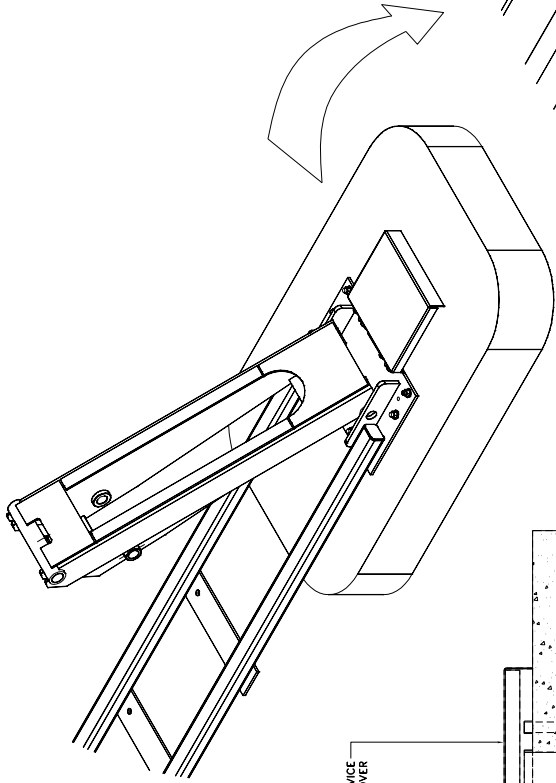
TELEFRANCES

1. 0.000
 2. 0.000
 3. 0.000
 4. 0.000
 5. 0.000
 6. 0.000
 7. 0.000
 8. 0.000
 9. 0.000
 10. 0.000
 11. 0.000
 12. 0.000
 13. 0.000
 14. 0.000
 15. 0.000
 16. 0.000
 17. 0.000
 18. 0.000
 19. 0.000
 20. 0.000
 21. 0.000
 22. 0.000
 23. 0.000
 24. 0.000
 25. 0.000
 26. 0.000
 27. 0.000
 28. 0.000
 29. 0.000
 30. 0.000
 31. 0.000
 32. 0.000
 33. 0.000
 34. 0.000
 35. 0.000
 36. 0.000
 37. 0.000
 38. 0.000
 39. 0.000
 40. 0.000
 41. 0.000
 42. 0.000
 43. 0.000
 44. 0.000
 45. 0.000
 46. 0.000
 47. 0.000
 48. 0.000
 49. 0.000
 50. 0.000
 51. 0.000
 52. 0.000
 53. 0.000
 54. 0.000
 55. 0.000
 56. 0.000
 57. 0.000
 58. 0.000
 59. 0.000
 60. 0.000
 61. 0.000
 62. 0.000
 63. 0.000
 64. 0.000
 65. 0.000
 66. 0.000
 67. 0.000
 68. 0.000
 69. 0.000
 70. 0.000
 71. 0.000
 72. 0.000
 73. 0.000
 74. 0.000
 75. 0.000
 76. 0.000
 77. 0.000
 78. 0.000
 79. 0.000
 80. 0.000
 81. 0.000
 82. 0.000
 83. 0.000
 84. 0.000
 85. 0.000
 86. 0.000
 87. 0.000
 88. 0.000
 89. 0.000
 90. 0.000
 91. 0.000
 92. 0.000
 93. 0.000
 94. 0.000
 95. 0.000
 96. 0.000
 97. 0.000
 98. 0.000
 99. 0.000
 100. 0.000

SCALE

CHECKED DATE 4/83
 APPROVED WEIGHT FROM
 DRAWN GASK TITLE ANCHOR DETAILS & SHIMMING
 P-010-A-001

SCALE	CHECKED	DATE	WEIGHT	FROM
		4/83		
NEXT ASSEMBLY				
P-010-D-004				
DRAWING NUMBER P-010-D-004				

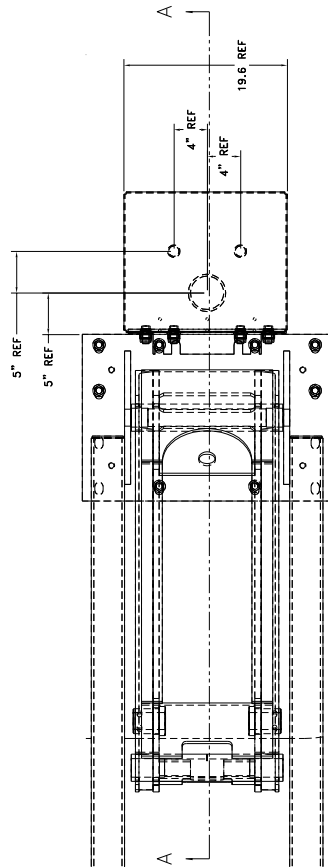


REAR LEG OF LIFT UNIT

FLOOR SERVICE SUPPLY COVER

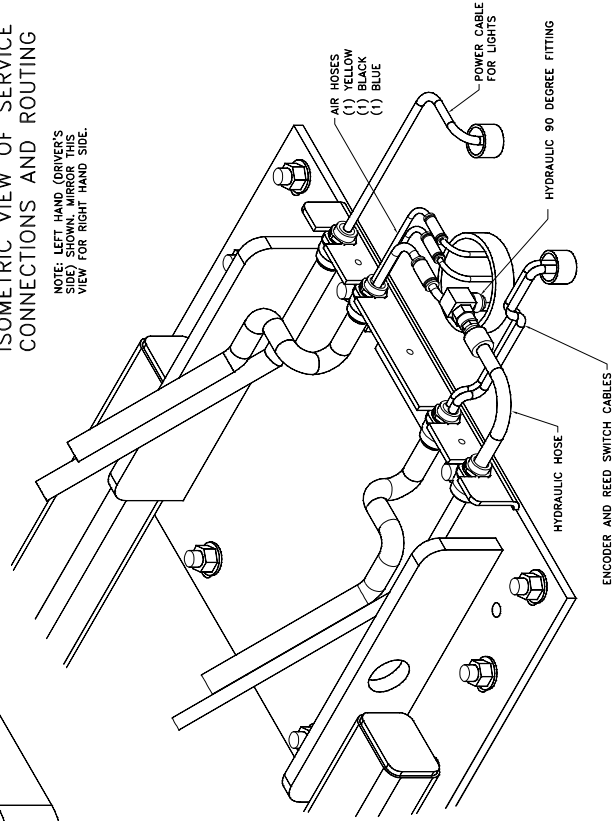
ANCHOR BOLT ASSEMBLY

SECTION A-A



ISOMETRIC VIEW OF SERVICE CONNECTIONS AND ROUTING

NOTE: LEFT HAND DRIVER'S VIEW FOR RIGHT HAND SIDE.



ENCODER AND REED SWITCH CABLES

NOTICE OF CONFIDENTIAL INFORMATION
 INFORMATION CONTAINED HEREIN IS CONFIDENTIAL AND PROPERTY OF MOHAWK RESOURCES LTD. IT IS TO BE KEPT SECRET AND NOT TO BE DISCLOSED OR REPRODUCED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF MOHAWK RESOURCES LTD.

NOTES:
 1. REMOVE ALL SHARP CORNERS & EDGES.
 2. FINISHES TO BE AS SPECIFIED. SURFACE FINISH TO BE PERM. GRK.
 3. WELDING MEDIAUM SHALL CONFORM TO AWS SPECIFICATIONS TO E-70XX ELECTRODES OR E-70XX CODE 3G FLUX CORE WIRE ONLY.

TOLEANCES:
 ANGULAR ± 1.0
 DIMENSIONAL ± .010
 SURFACE ± .015
 HOLE DIA. ± .015
 FILE NAME: P-010-D-005

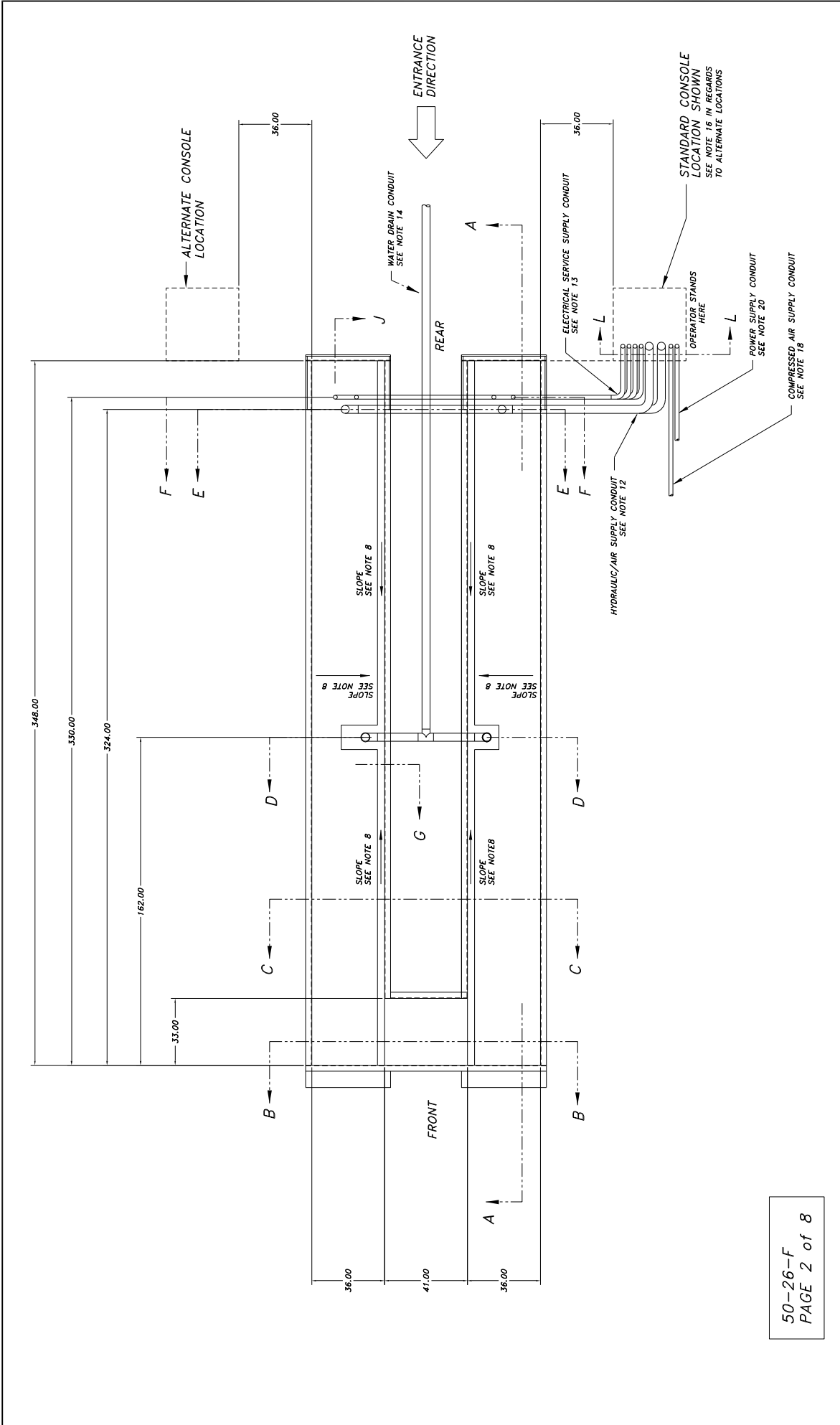
P-010-A-001
 NEXT ASSEMBLY

SCALE: 1/8
 CHECKED: / /
 DATE: 4/15/03

DRAWN: PM7089
 APPROVED: / /
 WEIGHT: / / g
 LE: / / g
 DRAWING NUMBER: P-010-D-005

MOHAWK RESOURCES LTD.
 TITLE: Parallelogram Installation Service Leg Conduit Details

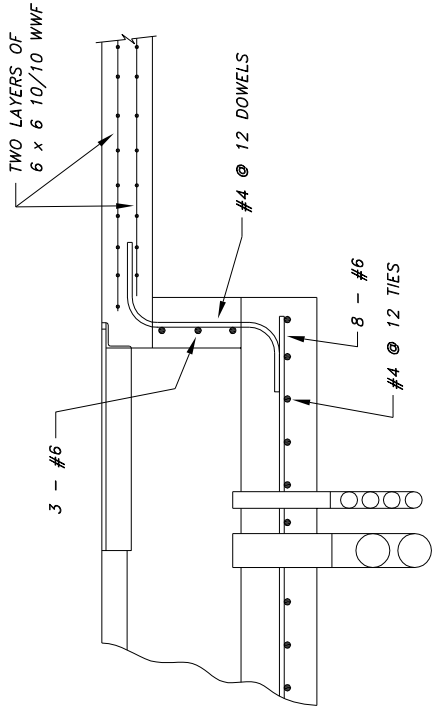
D-SIZE



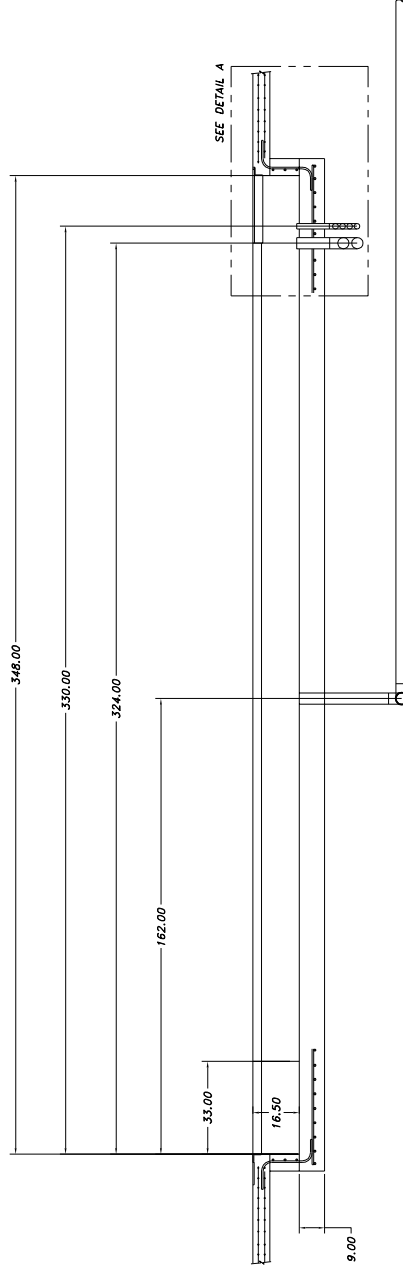
50-26-F
PAGE 2 of 8

NOTICE OF CONFIDENTIAL INFORMATION		NOTES:		TO FRANCES:		SCALE		DATE		MOHAWK RESOURCES L.T.D.	
INFORMATION CONTAINED HEREIN IS CONFIDENTIAL AND IS THE PROPERTY OF MOHAWK RESOURCES LTD. WHERE ADVISED BY THE RECIPIENT, THE INFORMATION SHALL NOT BE USED OR DISCLOSED BY THE RECIPIENT FOR ANY OTHER PURPOSES WHATSOEVER.		1. REMOVE ALL SHARP CORNERS & EDGES. 2. UNLESS OTHERWISE SPECIFIED, SURFACE FINISH SHALL BE AS SPECIFIED IN THE DRAWING. 3. WELDING MEDIUM SHALL CONFORM TO AWS SPECIFICATIONS TO E-70XX ELECTRODES OR E-7011 COBE 5.3 FLUX COBE WIRE ONLY.		1:0 ANGULAR: 0.030 DECIMAL: 0.00 XXXX		3/84 5/19/83		DRAWN: [] CHECKED: [] APPROVED: []		TITLE: PIT DRAWINGS & SECTIONS FOR 50-26-F (FLUSH) FROM: []	
FILE NAME: P-010-D-010 DRAWING NUMBER: P-010-D-010		NEXT ASSEMBLY: []		WEIGHT: [] LB		DRAWING NUMBER: P-010-D-010		FROM: []		PAGE 2 of 8	

D-size



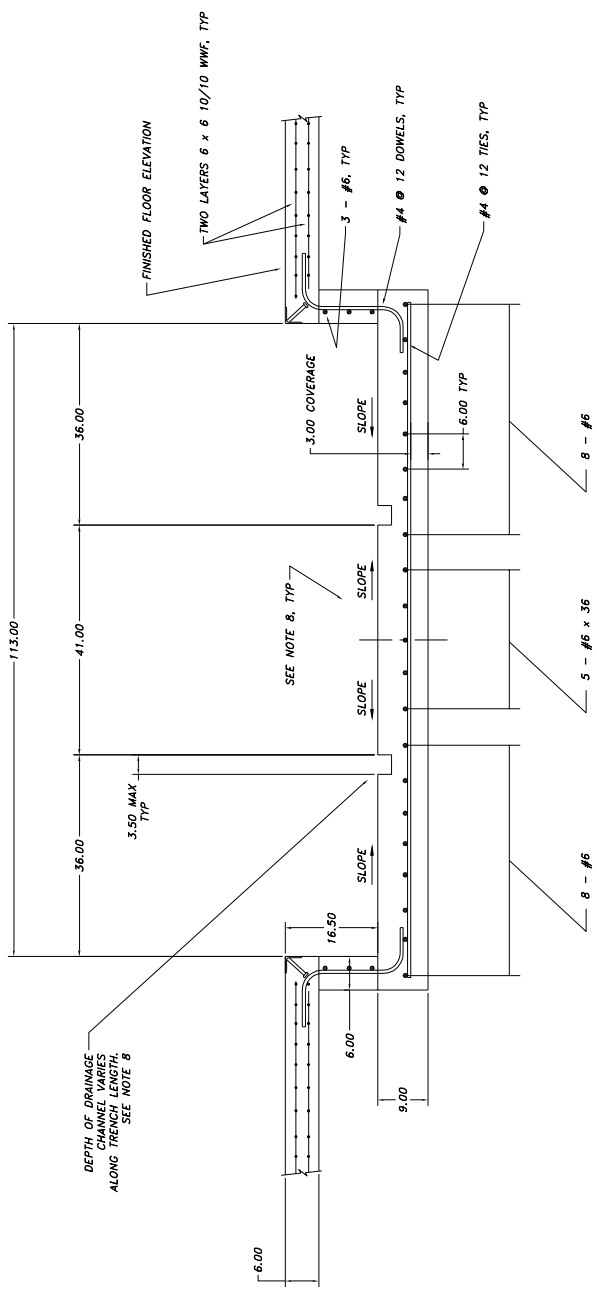
DETAIL A



SECTION A-A

50-26-F
PAGE 3 of 8

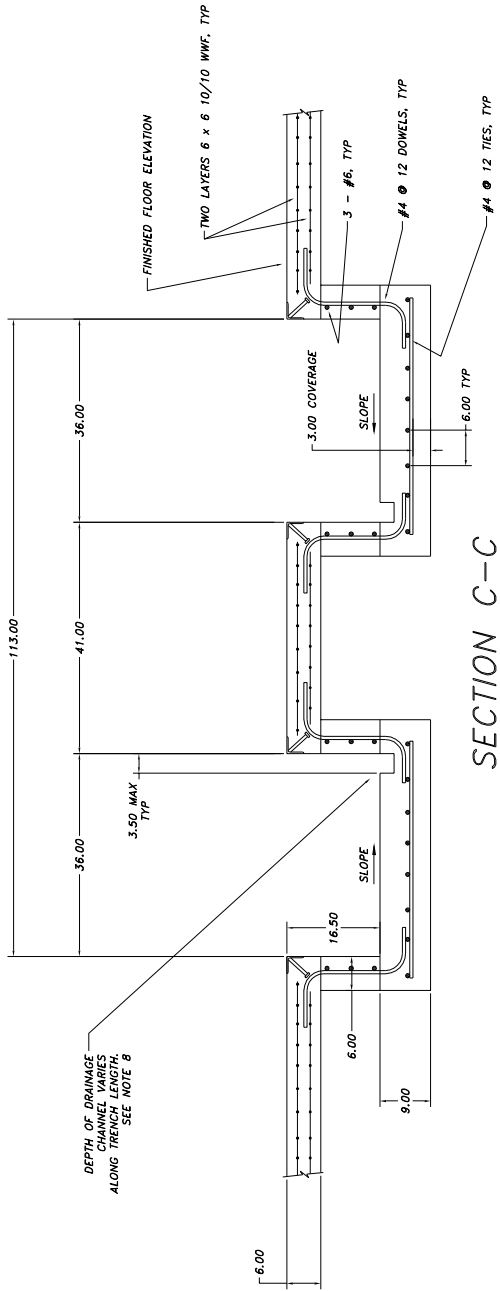
NOTICE OF CONFIDENTIAL INFORMATION		MOHAWK RESOURCES LTD.	
INFORMATION CONTAINED HEREIN IS CONFIDENTIAL AND PROPERTY OF MOHAWK RESOURCES LTD. IT SHALL BE USED SOLELY FOR THE PURPOSES OF INSPECTION, INSTALLATION, MAINTENANCE AND REPAIRS OF THE FACILITY FOR ANY OTHER PURPOSES WITHOUT WRITTEN PERMISSION BY THE COMPANY.		PIT DRAWINGS & SECTIONS FOR 50-26-F (FLUSH)	
NOTES: 1. REMOVE ALL SHARP CORNERS & EDGES. 2. FINISH TO BE SMOOTHED. SURFACE FINISH TO BE 125 RMS. 3. WELDING SHALL CONFORM TO AWS E-3011 CODE S3 FLUX CORE WIRE. ENCL. E-3011 CODE S3 FLUX CORE WIRE. ENCL.		SCALE 3/8" = 1'-0"	DRAWN GJK
TOLERANCES: FINISH DIMS ± 0.00 HOLE DIMS ± 0.05 FILE NAME P-010-D-010		CHECKED DATE 3/19/08	APPROVED WEIGHT LB
NEXT ASSEMBLY P-010-A-002		FROM	



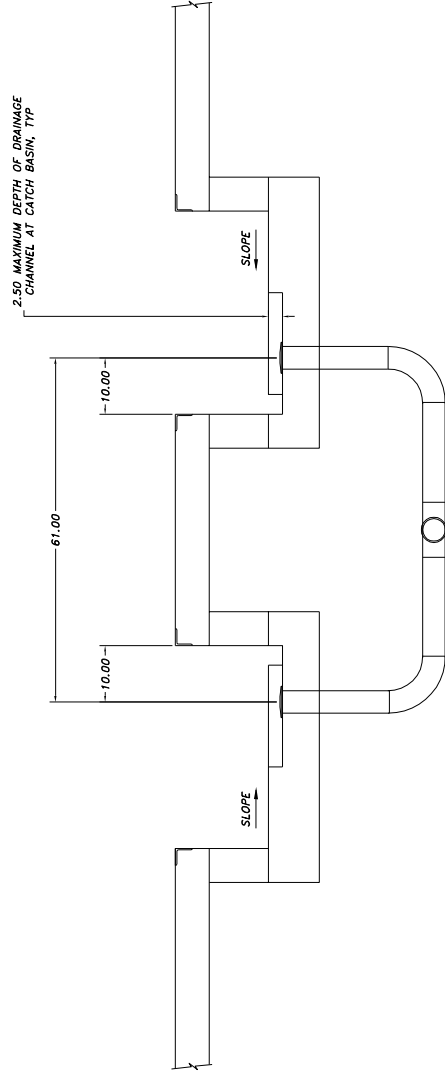
SECTION B-B

50-26-F
PAGE 4 of 8

NOTICE OF CONFIDENTIAL INFORMATION		NOTES		REVISIONS		P-010-A-002		SCALE		MOHAWK RESOURCES LTD.					
INFORMATION CONTAINED HEREIN IS CONFIDENTIAL AND PROPERTY OF MOHAWK RESOURCES LTD. ANY USE, REPRODUCTION OR DISSEMINATION OF THIS INFORMATION TO ANY OTHER PERSONS WITHOUT THE WRITTEN PERMISSION OF MOHAWK RESOURCES LTD. IS STRICTLY PROHIBITED. THE INFORMATION SHALL BE USED ONLY FOR THE PURPOSES SPECIFIED BY THE RECIPIENT FOR ANY OTHER PURPOSES IS UNAUTHORIZED.		1 REMOVE ALL SHARP CORNERS & EDGES. 2 UNLESS OTHERWISE SPECIFIED, SURFACE FINISH TO BE AS SHOWN. 3 FINISH TO BE AS SHOWN. CONFORM TO AISC SPECIFICATIONS TO E-70XX ELECTRODES OR E-70T1 CODE 3.3 FLUX CORE WIRE ONLY.		1 ± 1° 2 ± 0.08 3 ± 0.08 4 ± 0.08 5 ± 0.08 6 ± 0.08 7 ± 0.08 8 ± 0.08 9 ± 0.08 10 ± 0.08 11 ± 0.08 12 ± 0.08 13 ± 0.08 14 ± 0.08 15 ± 0.08 16 ± 0.08 17 ± 0.08 18 ± 0.08 19 ± 0.08 20 ± 0.08 21 ± 0.08 22 ± 0.08 23 ± 0.08 24 ± 0.08 25 ± 0.08 26 ± 0.08 27 ± 0.08 28 ± 0.08 29 ± 0.08 30 ± 0.08 31 ± 0.08 32 ± 0.08 33 ± 0.08 34 ± 0.08 35 ± 0.08 36 ± 0.08 37 ± 0.08 38 ± 0.08 39 ± 0.08 40 ± 0.08 41 ± 0.08 42 ± 0.08 43 ± 0.08 44 ± 0.08 45 ± 0.08 46 ± 0.08 47 ± 0.08 48 ± 0.08 49 ± 0.08 50 ± 0.08 51 ± 0.08 52 ± 0.08 53 ± 0.08 54 ± 0.08 55 ± 0.08 56 ± 0.08 57 ± 0.08 58 ± 0.08 59 ± 0.08 60 ± 0.08 61 ± 0.08 62 ± 0.08 63 ± 0.08 64 ± 0.08 65 ± 0.08 66 ± 0.08 67 ± 0.08 68 ± 0.08 69 ± 0.08 70 ± 0.08 71 ± 0.08 72 ± 0.08 73 ± 0.08 74 ± 0.08 75 ± 0.08 76 ± 0.08 77 ± 0.08 78 ± 0.08 79 ± 0.08 80 ± 0.08 81 ± 0.08 82 ± 0.08 83 ± 0.08 84 ± 0.08 85 ± 0.08 86 ± 0.08 87 ± 0.08 88 ± 0.08 89 ± 0.08 90 ± 0.08 91 ± 0.08 92 ± 0.08 93 ± 0.08 94 ± 0.08 95 ± 0.08 96 ± 0.08 97 ± 0.08 98 ± 0.08 99 ± 0.08 100 ± 0.08		FILE NAME P-010-D-010		DRAWN OKK		CHECKED 3/32		APPROVED 5/19/03		TITLE PIT DRAWINGS & SECTIONS FOR 50-26-F (FLUSH)	
										FROM P-010-D-010		DRAWING NUMBER P-010-D-010			
										WEIGHT L.B.		NEXT ASSEMBLY P-010-D-010			



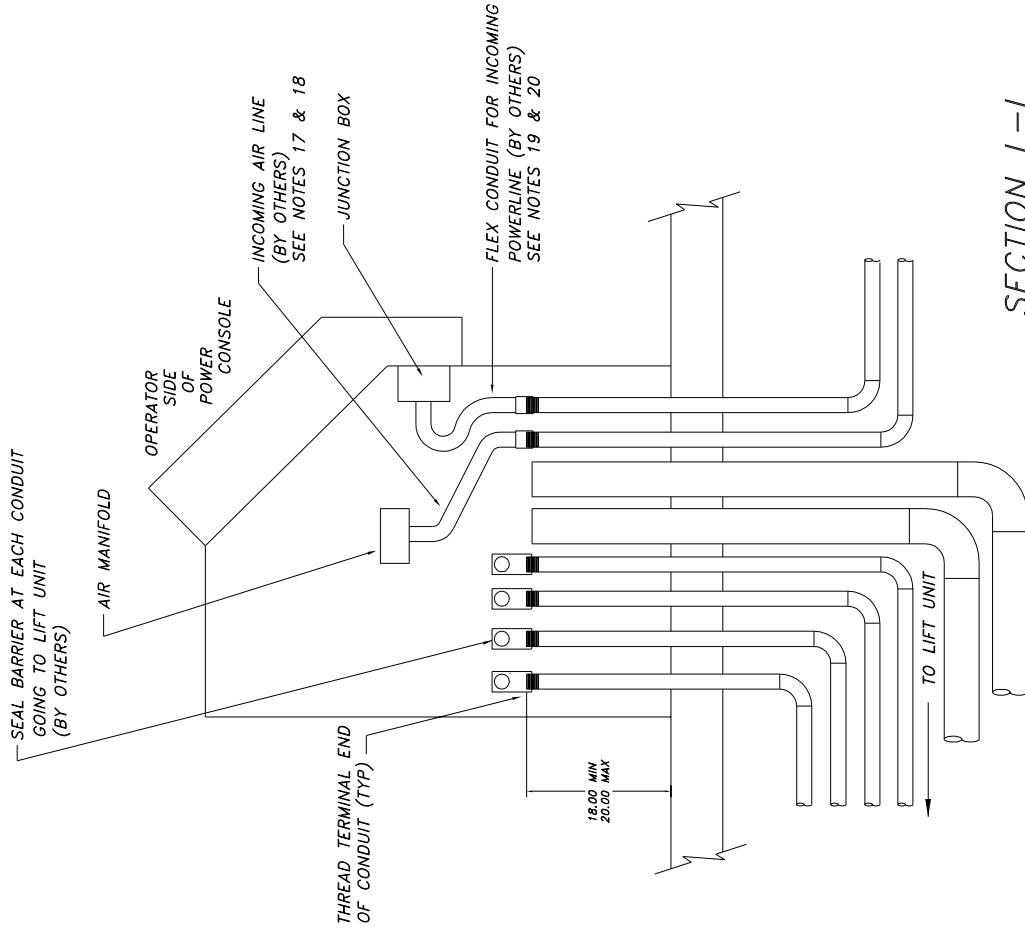
SECTION C-C



SECTION D-D

50-26-F
PAGE 5 of 8

NOTICE OF CONFIDENTIAL INFORMATION		P-010-A-002		SCALE	3/32	DRAWN	MOHAWK RESOURCES LTD.
INFORMATION CONTAINED HEREIN IS CONFIDENTIAL AND PROPERTY OF MOHAWK RESOURCES LTD. IT IS TO BE USED ONLY FOR THE PURPOSES OF INSPECTION, INSTALLATION, AND MAINTENANCE OF THE PROJECT AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM.		P-010-D-010		CHECKED		APPROVED	TITLE
		TOLERANCES:		FILE		WEIGHT	FOR 50-26-F (4/25/97)
		1. DIMENSIONS UNLESS OTHERWISE SPECIFIED, SURFACE FINISH TO BE PER RNS.		DATE	5/16/03	LB	FROM
		2. UNLESS OTHERWISE SPECIFIED, SURFACE FINISH TO BE PER RNS.		NEXT ASSEMBLY			
		3. WELDING METHOD SHALL CONFORM TO AWS OR AS SPECIFIED IN THE CONTRACT DOCUMENTS.					
		E-7011 EDGE 5.3 FLUX CORE WIRE ONLY.					



SECTION L-L

50-26-F
PAGE 8 of 8

NOTICE OF CONFIDENTIAL INFORMATION		TO FRANCES:		SCALE		DRAWN		MOHAWK RESOURCES LTD.	
<p>1. REMOVE ALL SHARP CORNERS & EDGES.</p> <p>2. UNLESS OTHERWISE SPECIFIED, SURFACE FINISH SHALL BE AS SHOWN.</p> <p>3. WELDING SHALL CONFORM TO AWS SPECIFICATIONS TO E-70XX ELECTRODES OR E-7011 COBE 5.3 FLUX COBE WIRE ONLY.</p>		<p>1" = 1'-0"</p> <p>0.030" = 1'-0"</p> <p>0.000" = 1'-0"</p> <p>FILE NAME: P-010-D-010</p>		<p>P-010-A-002</p>		<p>3/84</p>		<p>50K</p>	
<p>FOR THE RECORD FOR ALL OTHER PURPOSES INDICATED.</p>		<p>FILE NAME: P-010-D-010</p>		<p>ASSEMBLY</p>		<p>5/19/03</p>		<p>APPROVED</p>	
<p>FOR THE RECORD FOR ALL OTHER PURPOSES INDICATED.</p>		<p>FILE NAME: P-010-D-010</p>		<p>ASSEMBLY</p>		<p>5/19/03</p>		<p>WEIGHT</p>	
<p>FOR THE RECORD FOR ALL OTHER PURPOSES INDICATED.</p>		<p>FILE NAME: P-010-D-010</p>		<p>ASSEMBLY</p>		<p>5/19/03</p>		<p>FROM</p>	
<p>FOR THE RECORD FOR ALL OTHER PURPOSES INDICATED.</p>		<p>FILE NAME: P-010-D-010</p>		<p>ASSEMBLY</p>		<p>5/19/03</p>		<p>TITLE</p>	
<p>FOR THE RECORD FOR ALL OTHER PURPOSES INDICATED.</p>		<p>FILE NAME: P-010-D-010</p>		<p>ASSEMBLY</p>		<p>5/19/03</p>		<p>PIT DRAWINGS & SECTIONS</p>	
<p>FOR THE RECORD FOR ALL OTHER PURPOSES INDICATED.</p>		<p>FILE NAME: P-010-D-010</p>		<p>ASSEMBLY</p>		<p>5/19/03</p>		<p>FOR 50-26-F (FLUSH)</p>	
<p>FOR THE RECORD FOR ALL OTHER PURPOSES INDICATED.</p>		<p>FILE NAME: P-010-D-010</p>		<p>ASSEMBLY</p>		<p>5/19/03</p>		<p>DRAWING NUMBER</p>	
<p>FOR THE RECORD FOR ALL OTHER PURPOSES INDICATED.</p>		<p>FILE NAME: P-010-D-010</p>		<p>ASSEMBLY</p>		<p>5/19/03</p>		<p>P-010-D-010</p>	

LIFT DATA TABLE

MOHAWK RESOURCES, LTD
 PARALLELOGRAM LIFT MODEL
 50-26-FLUSH

LIFT UNIT DATA	
MAXIMUM LOAD CAPACITY (LBS)	50,000
ANCHORAGE	---
ANCHOR BOLT DIAMETER (IN.)	3/4"
TOTAL NUMBER OF ANCHOR BOLTS	48
BOLT PATTERN	SEE ANCHOR DETAILS
ANCHOR BOLT SETTING TORQUE	N/A - SEE ANCHOR DETAILS
MINIMUM EMBEDMENT LENGTH (IN.)	3.00
MINIMUM CONCRETE THICKNESS (IN.)	---
HYDRAULIC RESERVOIR CAPACITY (GAL)	30 TOTAL
OIL TYPE	DEXRON III (ATF)
ELECTRICAL	---
MOTOR HORSEPOWER	20
208/230 V 3 PH	60 AMPERE
or 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)	6
SHOP AIR	---
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.

ITEM	QTY	DESCRIPTION	MATERIAL
12	1	LOCKOUT/TAGOUT DISCONNECT BOX	PER LOCAL ELECTRICAL CODES
11*	AR	LEVELING SHIMS	1/16" 1/8" 1/4" THICK
10*	48	3/4" x 5" ANCHOR BOLT ASSEMBLY	WE-17 -- WEDGE ANCHORS
9	4	1" SEAL BARRIER	CROUSE -- HINDS EYSS
8	4	1"-3/4" REDUCER BUSHING	CROUSE -- HINDS RES2
7	4	1" SCH 40-90 DEG ELBOW	CROUSE -- HINDS EL3
6*	1	JUNCTION BOX (IN CONSOLE)	STEEL
5	AR	SEALTITE FLEXIBLE CONDUIT	METAL CORE
4	AR	1" RIGID CONDUIT	STEEL
3	1	FILTER/LUBRICATOR/REGULATOR, DRYER SHUTOFF	STEEL or PVC
2	AR	4" SCH 40 STREET ELBOW	STEEL or PVC
1	AR	4" SCH 40 PIPE	STEEL or PVC
ITEM	QTY	DESCRIPTION	MATERIAL
* ITEMS SUPPLIED BY MOHAWK WITH THE LIFT UNIT			

NOTICE OF CONFIDENTIAL INFORMATION
 INFORMATION CONTAINED HEREIN IS CONFIDENTIAL AND IS THE PROPERTY OF MOHAWK RESOURCES, LTD. IT IS TO BE USED ONLY FOR THE PURPOSES SPECIFIED HEREIN. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF MOHAWK RESOURCES, LTD.

NOTES
 1. REMOVE ALL SHARP CORNERS & EDGES
 2. UNLESS OTHERWISE SPECIFIED, SURFACE FINISH TO BE PER AWS CONFORM TO AWS SPECIFICATIONS TO E-70XX ELECTRODES OR E-70T1 CODE 5.3 FLUX CORE WIRE ONLY.
 3. FILE NAME: P-010-D-011

ITERMICES
 1.0
 2.000
 3.000
 4.000
 5.000
 6.000
 7.000
 8.000
 9.000
 10.000

SCALE	APPROVED	DATE	WEIGHT	LIB
P-010-A-002	5/03			
NEXT ASSEMBLY				
MOHAWK RESOURCES LTD.				
TITLE: 50-26-F (FLUSH) LIFT DATA TABLE				
DRAWING NUMBER: P-010-D-011				

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
WELT-IT FASTENING 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 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 (SHIMMING) 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 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 DEVIATIONS FROM THE ENCLOSED DRAWINGS MAY REQUIRE LONGER CABLES, HOSES, CONDUIT, ETC. AT ADDITIONAL EXPENSE TO THE PURCHASER.

NOTE 17
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 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 REQUIRES 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.

NOTICE OF CONFIDENTIAL INFORMATION
THIS DOCUMENT CONTAINS INFORMATION THAT IS UNCLASSIFIED AND IS BEING RELEASED TO THE PUBLIC. IF YOU ARE A CONTRACTOR OR SUBCONTRACTOR OF THE U.S. GOVERNMENT, YOU MAY BE SUBJECT TO THE PROVISIONS OF EXECUTIVE ORDER 13526, WHICH REQUIRES YOU TO REPORT ANY UNAUTHORIZED DISCLOSURE OF THIS INFORMATION TO THE OFFICE OF THE DIRECTOR OF INFORMATION SECURITY, 4800 MARKING STREET, FORT BELLEVILLE, ILLINOIS 62239-4302. YOU MAY BE SUBJECT TO PENALTIES FOR VIOLATION OF THIS ORDER. THIS INFORMATION IS NOT TO BE RELEASED TO THE PUBLIC FOR ANY OTHER PURPOSES WITHOUT THE WRITTEN PERMISSION OF THE U.S. GOVERNMENT.

NOTES:
1. UNLESS OTHERWISE SPECIFIED, SURFACE FINISH TO BE PER RMC COMPANY TO AUSTIN, TEXAS.
2. UNLESS OTHERWISE SPECIFIED, SURFACE FINISH TO BE PER RMC COMPANY TO AUSTIN, TEXAS.
3. SPECIFICATIONS TO E-70X ELECTRICALS OR E-701 CODE 5.3 FLUX CORE WIRE ONLY.
FILE NAME: P-010-0-012
NEXT ASSEMBLY:

SCALE	P-010-A-002	TITLE	FLUSH INSTALLATION GENERAL NOTES
CHECKED		APPROVED	
DATE	5/03	WEIGHT	
DATE		FROM	
		LIB	
		DRAWING NUMBER	P-010-0-012

FLUSH LIFTS ONLY



MOHAWK MODEL PARALLELOGRAM

MOHAWK

PARALLELOGRAM

PARTS DRAWINGS



MOHAWK RESOURCES LTD.

65 VROOMAN AVE.

AMSTERDAM, NY 12010

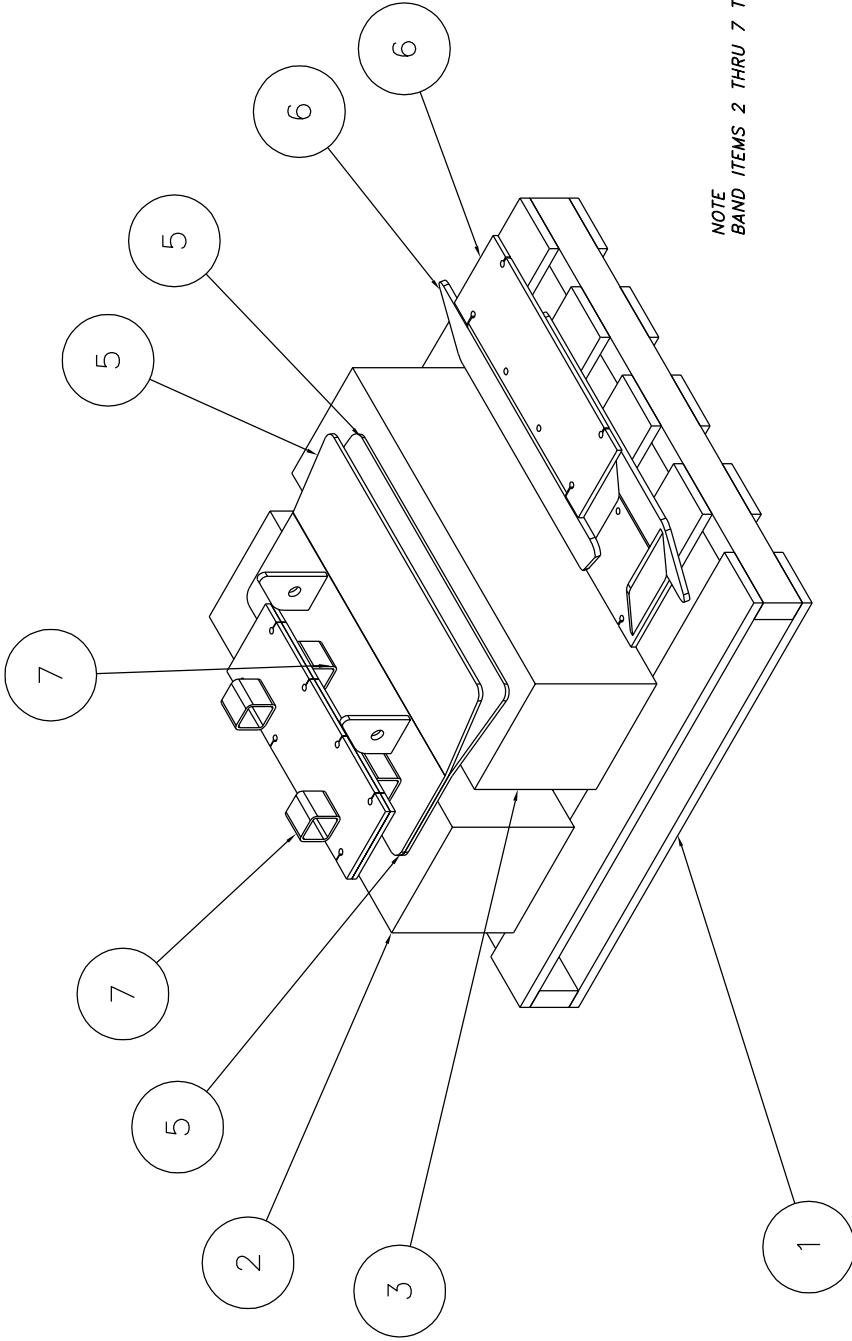
TOLL FREE: 1-800-833-2006

LOCAL: 1-518-842-1431

FAX: 1-518-842-1289

INTERNET: WWW.MOHAWKLIFTS.COM

E-MAIL: SERVICE@MOHAWKLIFTS.COM



NOTE
BAND ITEMS 2 THRU 7 TO ITEM 1 WITH ITEMS 4 & 8.

8	601-600-019	Cardboard, 12 1/4 x 21 3/5, #31	2
7	P-160-W-001	Trans Mounting Bracket Weldment	2
6	P-160-W-002	Wheel Stop Weldment	2
5	P-160-W-004	Transition Plate Weldment	2
4	601-600-052	Banding, Polyester, Green, 5/8 x 16'	2
3	P-020-A-003	Parallelogram Parts Box #1	1
2	P-020-A-002	Parallelogram Parts Box #2	1
1	601-600-040	Pallet, Standard	1
ITEM	NAME	DESCRIPTION	QTY

Parts List

SCALE	1/2	DRAWN	dk	MOHAWK RESOURCES LTD.	
CHECKED		APPROVED		TITLE	PARALLELOGRAM PARTS BOX/SKID PACKING ASS
DATE	7/30/03	WEIGHT	LB.	FROM	DRAWING NUMBER
NEXT ASSEMBLY					P-020-A-001

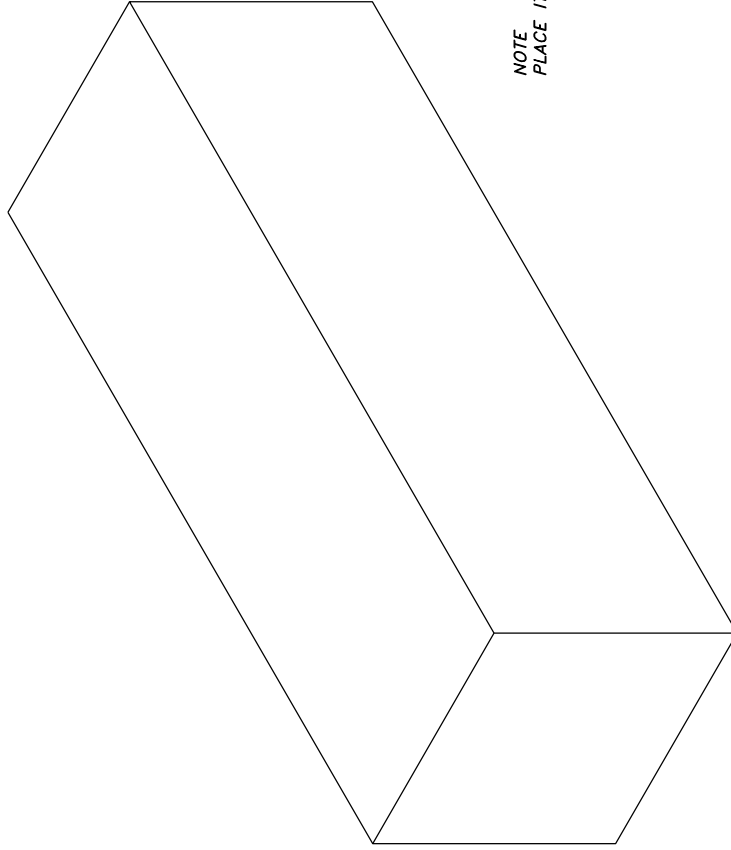
C-SIZE

NOTICE OF CONFIDENTIAL INFORMATION

INFORMATION CONTAINED HEREIN IS CONFIDENTIAL AND PROPERTY OF MOHAWK RESOURCES LTD., WHERE DRAWING IS FURNISHED TO OTHERS IT SHALL BE USED SOLELY FOR PURPOSES OF INSPECTION, INSTALLATION, OR MAINTENANCE. THE INFORMATION SHALL NOT BE USED OR DISCLOSED BY 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-7011 CODE 5.3 FLUX CORE WIRE ONLY.

TOLERANCES:
ANGULAR ± 1°
FRACTIONAL ± .030
DECIMAL ± .030
XXX ± .005
FILE NAME P-020-A-001



NOTE
PLACE ITEMS 2 THRU 8 INTO ITEM 1

8	600-930-001	Wheel Chocks, Rubber	4
7	600-890-006	Cotter Pin, 1/8 x 1 3/4	4
6	600-710-010	Washer, Flat, 1"	4
5	P-160-P-001	Tilt Bar	2
4	P-150-P-012	Bracket Floor Service (Offset Slots)	2
3	P-150-P-013	Box, Floor Service	2
2		Hydraulic Lines	2
1	601-600-023	Carton, #1011 Top, #1012 Bottom, 37 1/2 x 12 1/2 x 12 1/2	1
ITEM	NAME	DESCRIPTION	QTY

C-SIZE

NOTICE OF CONFIDENTIAL INFORMATION

INFORMATION CONTAINED HEREIN IS CONFIDENTIAL AND PROPERTY OF MOHAWK RESOURCES LTD., WHERE DRAWING IS FURNISHED TO OTHERS IT SHALL BE USED SOLELY FOR PURPOSES OF INSPECTION, INSTALLATION, OR MAINTENANCE. THE INFORMATION SHALL NOT BE USED OR DISCLOSED BY 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-7011 CODE 5.3 FLUX CORE WIRE ONLY.

TOLERANCES:
ANGULAR: ± 1°
FRACTIONAL: ± .030
DECIMAL: ± .030
D.XXX: ± .005

FILE NAME
P-020-A-002

P-

NEXT ASSEMBLY

SCALE
1/4

CHECKED

DATE
7/29/03

DRAWN
dak

APPROVED

WEIGHT

LB.

MOHAWK RESOURCES LTD.

TITLE
PARALLELOGRAM (SURFACE)
PARTS BOX #2

FROM

DRAWING NUMBER
P-020-A-002

Parts List

NOTE
PLACE ITEMS 2 THRU 21 INTO ITEM 1.

21	P-020-A-006	Parallelogram Manual Assembly	1
20	P-020-A-005	Parallelogram Shim Bag	1
19	600-670-003	Anchor Bolt, 3/4 x 6" Lg, UNC Class 2A	44
18	P-200-A-006	Parallelogram Reed Switch Tester	1
17	601-120-049	Fuse, Class CC, 10 Amp, FNQ-R	2
16	600-720-004	Washer, Lock, 7/16	64
15	600-710-005	Washer, Flat, 7/16	64
14	600-640-089	Bolt, 7/16-14 NC x 1 3/4	32
13	601-600-022	Bag, 9 x 12, Plastic, Transparent	3
12	601-630-002	Paint, Yellow, Spray	3
11	601-630-001	Paint, Red, Spray	3
10	601-530-002	Coupler Plug to 3/8 NPTM	2
9	601-530-001	Coupler Sleeve to 3/8 NPTM	2
8	601-420-010	Fitting, 90 Deg Elbow, 3/8 NPTM to 3/8 NPTF (Street)	2
7	601-200-044	Fitting, 90 Deg Elbow, 8 JICM to 10 JICM	2
6	601-200-036	Fitting, Str, 3/8 Tube to Tube	2
5	601-200-041	Fitting, Str, 1/4 Tube to Tube	4
4	601-200-008	Air Hose, Blue, 3/8 (Transparent) x 100 Feet	2
3	601-200-006	Air Hose, Yellow, 1/4 (Transparent) x 100 Feet	2
2	601-200-001	Air Hose, Black, 1/4 (Opaque) x 100 Feet	2
1	601-600-023	Carton, #1011 Top, #1012 Bottom, 37 1/2 x 12 1/2 x 12 1/2	1
ITEM	NAME	DESCRIPTION	QTY

BAG

BAG

BAG

C-SIZE

Parts List

NOTICE OF CONFIDENTIAL INFORMATION

INFORMATION CONTAINED HEREIN IS CONFIDENTIAL AND PROPERTY OF MOHAWK RESOURCES LTD. IT SHALL BE USED SOLELY FOR PURPOSES OF INSPECTION, INSTALLATION, OR MAINTENANCE. THE INFORMATION SHALL NOT BE USED OR DISCLOSED BY 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-70TI CODE 5.3 FLUX CORE WIRE ONLY.

TOLERANCES:
 ANGULAR ± .0°
 FRACTIONAL ± .030
 DECIMAL: 0.XX ± .030
 0.XXX ± .005

FILE NAME
 P-020-A-003

SCALE
 1/4

CHECKED

DATE
 7/29/03

APPROVED

WEIGHT

L.B.

FRDM

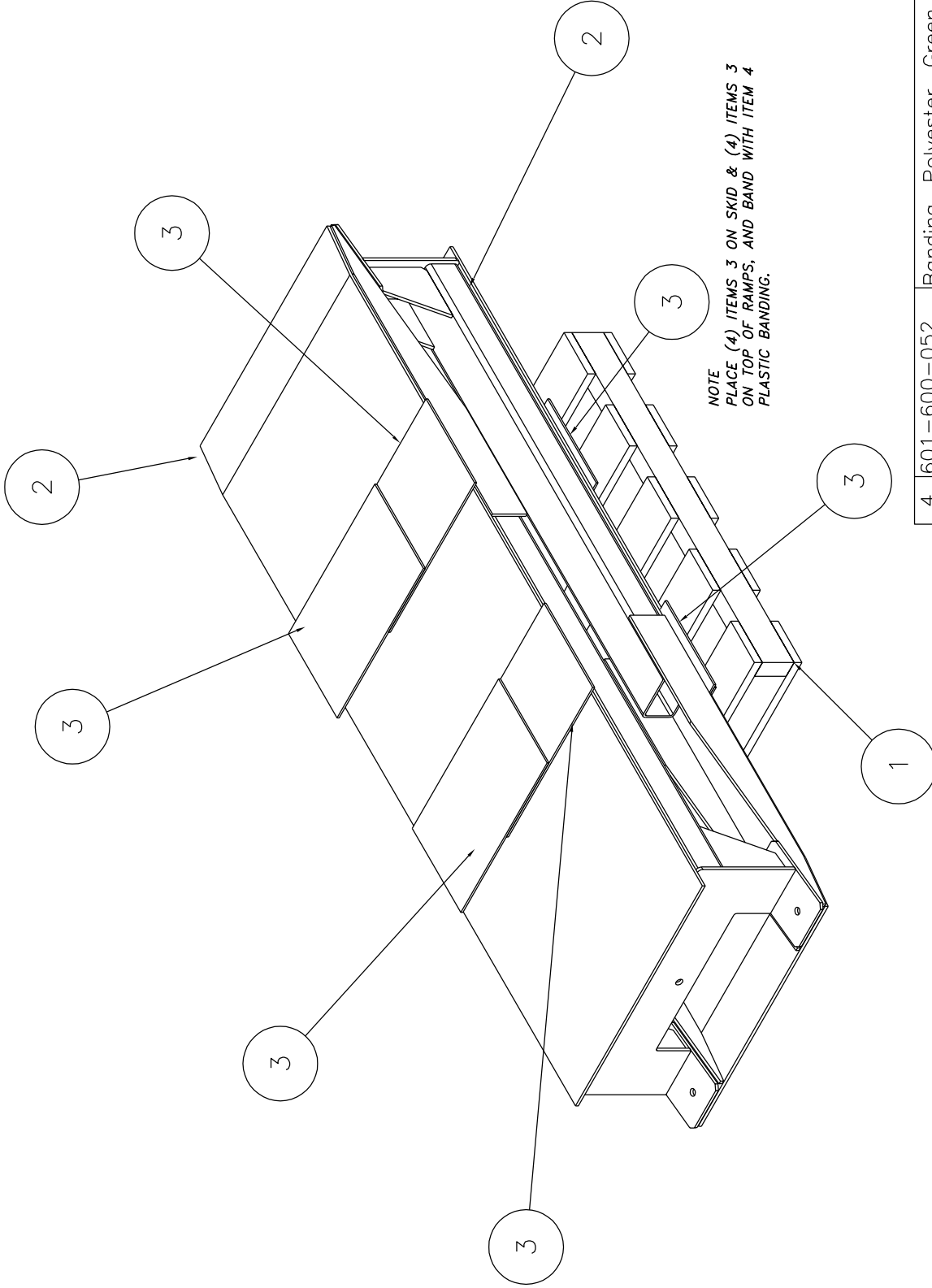
PARALLELOGRAM PARTS BOX #1

MOHAWK RESOURCES LTD.

PARALLELOGRAM PARTS BOX #1

DRAWING NUMBER
 P-020-A-003





NOTE
 PLACE (4) ITEMS 3 ON SKID & (4) ITEMS 3
 ON TOP OF RAMPS, AND BAND WITH ITEM 4
 PLASTIC BANDING.

ITEM	NAME	DESCRIPTION	QTY
4	601-600-052	Banding, Polyester, Green, 5/8 x 12'	2
3	601-600-019	Cardboard Pad, #31, 12 1/4 x 21 3/4	8
2	P-100-W-001	8'-0" RAMP WELDMENT	2
1	601-600-040	Pallet, Standard	1

Parts List

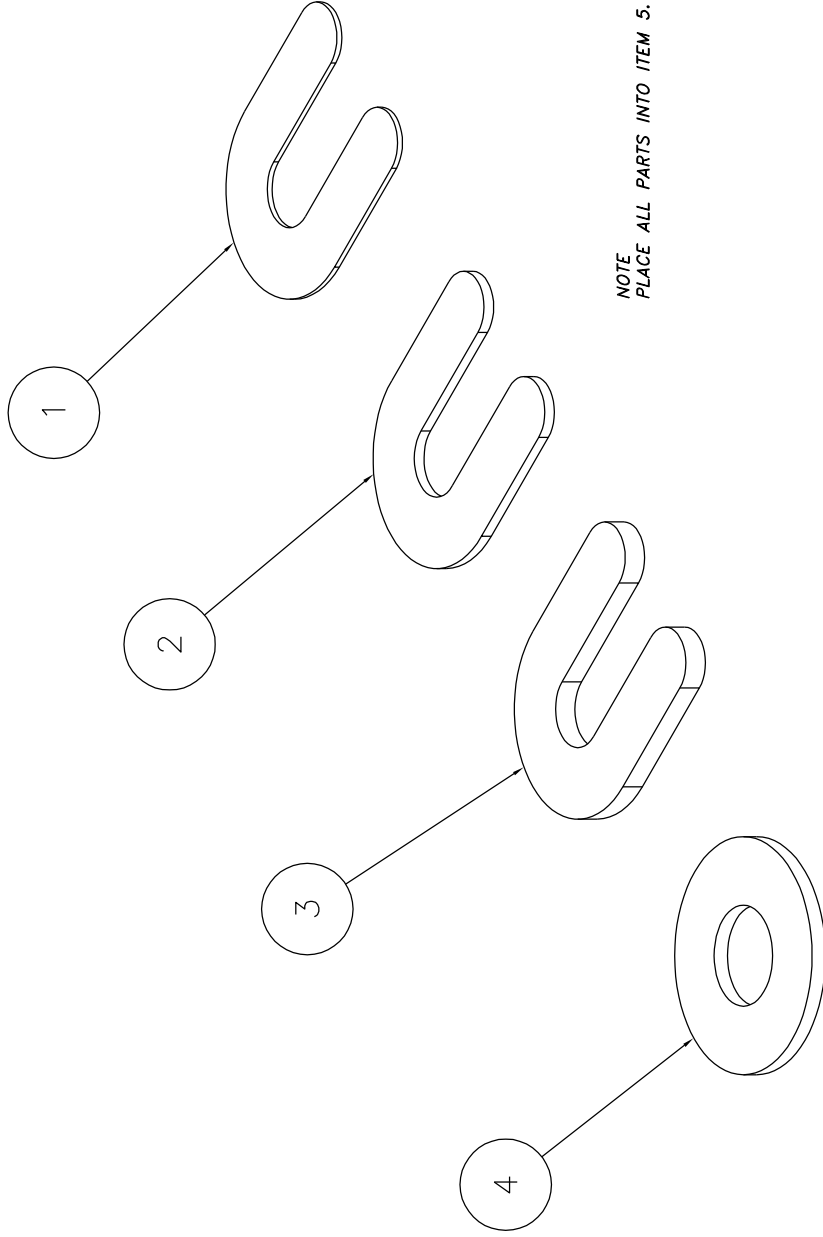
SCALE	1/8	DRAWN	dk	MOHAWK RESOURCES LTD.	
CHECKED		APPROVED		TITLE	PARALLELOGRAM RAMP WELDMENT PACKING
DATE	7/29/03	WEIGHT	646	FROM	DRAWING NUMBER P-020-A-004
NEXT ASSEMBLY					

TOLERANCES:	ANGULAR ± 1°
	FRACTIONAL ± .030
	DECIMAL ± .030
	D.XXX ± .005
FILE NAME	P-020-A-004

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-70TTI CODE 5.3 FLUX CORE WIRE ONLY.

C-SIZE

NOTICE OF CONFIDENTIAL INFORMATION
 INFORMATION CONTAINED HEREIN IS CONFIDENTIAL AND PROPERTY OF MOHAWK RESOURCES LTD. WHERE DRAWING IS FURNISHED TO OTHERS IT SHALL BE USED SOLELY FOR PURPOSES OF INSPECTION, INSTALLATION, OR MAINTENANCE. THE INFORMATION SHALL NOT BE USED OR DISCLOSED BY THE RECIPIENT FOR ANY OTHER PURPOSES WHATSOEVER.



NOTE
PLACE ALL PARTS INTO ITEM 5.

5	601-600-022	Bag, 9" x 12", Plastic, Transparent	1
4	600-710-010	Washer, Flat, 1"	20
3	600-740-003	Shim, Horseshoe, Plastic, Black, 1/4"	10
2	600-740-002	Shim, Horseshoe, Plastic, Red, 1/8"	10
1	600-740-001	Shim, Horseshoe, Plastic, Blue, 1/16"	10
ITEM	NAME	DESCRIPTION	QTY

Parts List

C-SIZE

NOTICE OF CONFIDENTIAL INFORMATION

INFORMATION CONTAINED HEREIN IS CONFIDENTIAL AND PROPERTY OF MOHAWK RESOURCES LTD., WHERE DRAWING IS FURNISHED TO OTHERS IT SHALL BE USED SOLELY FOR PURPOSES OF INSPECTION, INSTALLATION, OR MAINTENANCE. THIS INFORMATION SHALL NOT BE USED OR DISCLOSED BY 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 CONFIRM TO AWS SPECIFICATIONS TO E-70XX ELECTRODES OR E-70TT CODE 5:3 FLUX CORE WIRE ONLY.

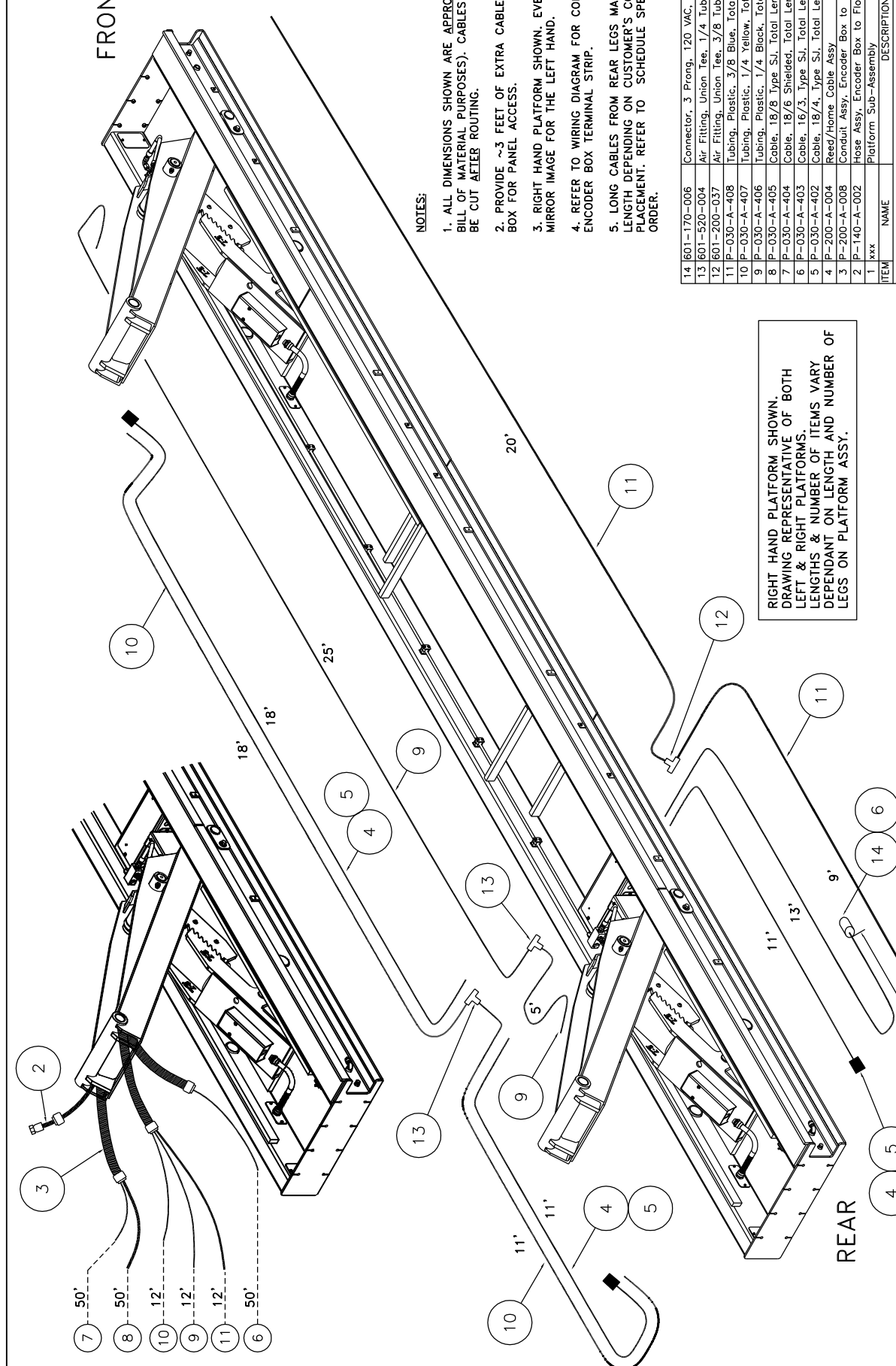
TOLERANCES:
ANGULAR ± 1°
FRACTIONAL ± .030
DECIMAL ± .030
XXX ± .005
FILE NAME
P-020-A-005

P-
NEXT ASSEMBLY

SCALE FULL
CHECKED
DATE 7/28/03

DRAWN dgk
APPROVED
WEIGHT 4.74 LB.

MOHAWK RESOURCES LTD.
TITLE PARALLELOGRAM SHIM BAG
DRAWING NUMBER P-020-A-005



FRONT

REAR

NOTES:

1. ALL DIMENSIONS SHOWN ARE APPROXIMATE (FOR BILL OF MATERIAL PURPOSES). CABLES AND TUBING TO BE CUT AFTER ROUTING.
2. PROVIDE ~3 FEET OF EXTRA CABLE IN ENCODER BOX FOR PANEL ACCESS.
3. RIGHT HAND PLATFORM SHOWN. EVERYTHING IS A MIRROR IMAGE FOR THE LEFT HAND.
4. REFER TO WIRING DIAGRAM FOR CONNECTIONS ON ENCODER BOX TERMINAL STRIP.
5. LONG CABLES FROM REAR LEGS MAY BE DIFFERENT LENGTH DEPENDING ON CUSTOMER'S CONSOLE PLACEMENT. REFER TO SCHEDULE SPECIFICS ON LIFT ORDER.

RIGHT HAND PLATFORM SHOWN. DRAWING REPRESENTATIVE OF BOTH LEFT & RIGHT PLATFORMS. LENGTHS & NUMBER OF ITEMS VARY DEPENDANT ON LENGTH AND NUMBER OF LEGS ON PLATFORM ASSY.

NOTICE OF CONFIDENTIAL INFORMATION
 THIS DRAWING IS THE PROPERTY OF MOHAWK RESOURCES LTD. IT IS TO BE USED ONLY FOR THE PROJECT AND NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM. WITHOUT THE WRITTEN PERMISSION OF MOHAWK RESOURCES LTD. ANY UNAUTHORIZED USE OF THIS DRAWING IS PROHIBITED. THE USER SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY PERMITS FOR ANY OTHER PURPOSES. MOHAWK RESOURCES LTD.

NOTES:
 1. REMOVE ALL SHARP CORNERS & EDGES.
 2. UNLESS OTHERWISE SPECIFIED, SURFACE FINISH TO BE 15% RMS.
 3. SPECIFICATIONS TO E-70XX ELECTRODES OR E-7011 COBE 53 FLUX COBE WIRE ONLY.

TO DIMENSIONS:
 ANGULAR: ± 1.0°
 DIMENSIONAL: ± 0.30
 SURFACE: ± 0.005
 HOLE: ± 0.005

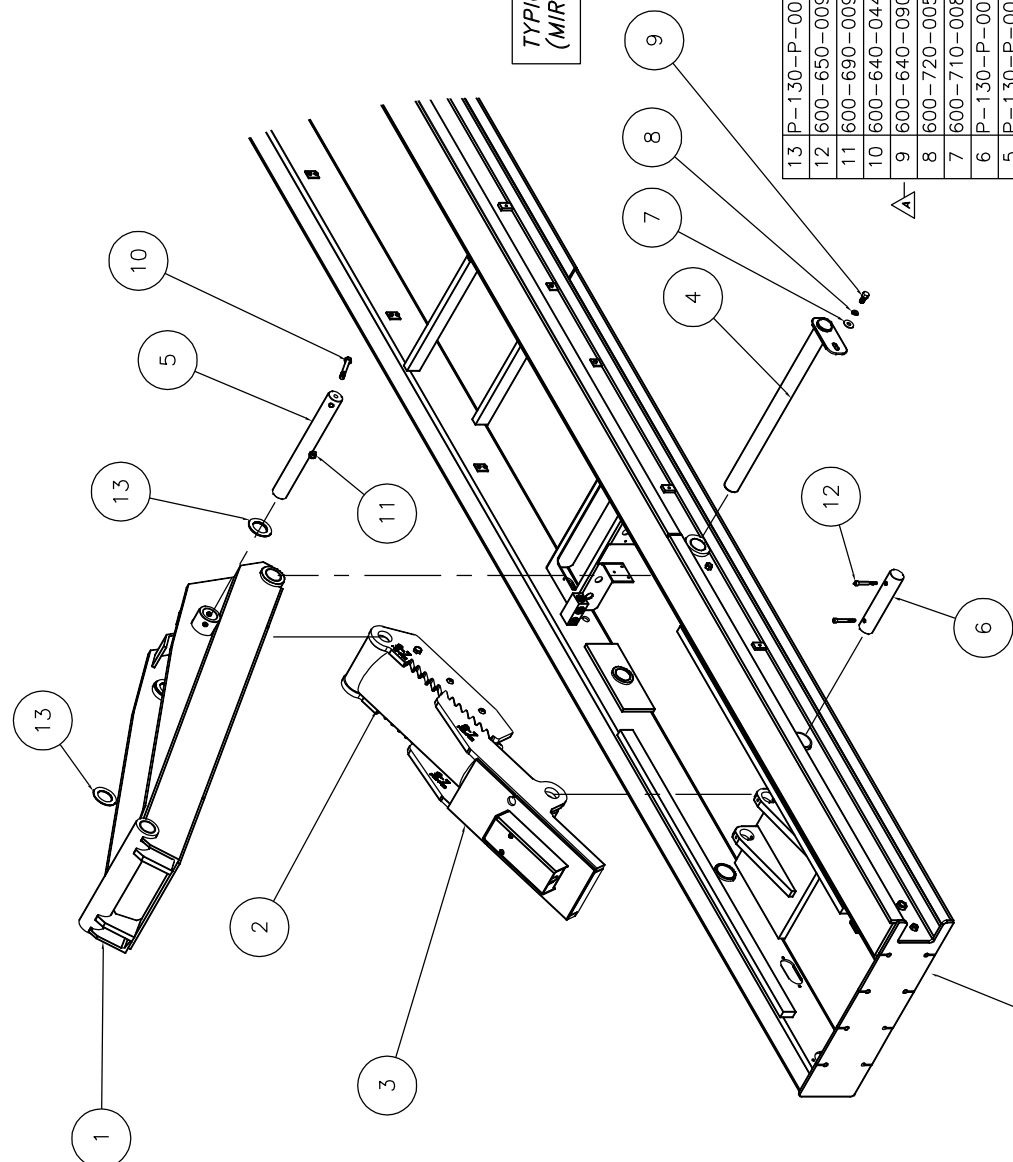
ITEM	NAME	DESCRIPTION	QTY
14	601-170-006	Connector, 3 Prong, 120 VAC, 1 Ph	1
13	601-520-004	Air Fitting, Union Tee, 1/4 Tube	2
12	601-200-037	Air Fitting, Union Tee, 3/8 Tube	1
11	P-030-A-408	Tubing, Plastic, 3/8 Blue, Total Length=29 FT	1
10	P-030-A-407	Tubing, Plastic, 1/4 Yellow, Total Length=29 FT	1
9	P-030-A-406	Tubing, Plastic, 1/4 Black, Total Length=30 FT	1
8	P-030-A-405	Cable, 18/8 Type SJ, Total Length=50 FT	1
7	P-030-A-404	Cable, 18/6 Shielded, Total Length=50 FT	1
6	P-030-A-403	Cable, 16/3, Type SJ, Total Length=63 FT	1
5	P-030-A-402	Cable, 18/4, Type SJ, Total Length=40 FT	1
4	P-200-A-004	Reel/Home Cable Assy	3
3	P-200-A-008	Conduit Assy, Encoder Box to Floor, Surf	3
2	P-140-A-002	Hose Assy, Encoder Box to Floor, Surf	3
1	xxx	Platform Sub-Assembly	0

SCALE	APPROVED	DATE	WEIGHT	LB	QTY
1/0"=1'0"	AW/089	7/2003	5350	n/g	

FILE NAME	TRAVEL NUMBER
P-030-A-003	P-030-A-003

MOHAWK RESOURCES LTD.	PLATFORM ASSY (PLUMBING) RH
AW/089	P-030-A-003

#	DESCRIPTION	DATE	APPROVED
A	ITEM 9 WAS 600-640-008	08/19/2003	060879



TYPICAL ALL LEG LOCATIONS
(MIRROR VIEW FOR OPPOSITE PLATFORM)

ITEM	NAME	DESCRIPTION	QTY
13	P-130-P-001	Shim Washer	18
12	600-650-009	Socket Cap Bolt, 3/8-16 NC x 3" Lg	2
11	600-690-009	Nut, Nylon Lock, 1/2-13 NC	1
10	600-640-044	Bolt, Hex Head, 1/2-13 NC x 4" (GR5)	1
9	600-640-090	Bolt, Hex Head, 1/2-13 NC x 3/4" (GR5)	1
8	600-720-005	Washer, Lock, 1/2	1
7	600-710-008	Washer, Flat, 1/2	1
6	P-130-P-006	Pivot Pin #4	1
5	P-130-P-005	Pivot Pin #3	1
4	P-130-W-001	Pivot Pin #2 Weldment	1
3	P-080-A-003	Lower Lock Assembly, Surface	1
2	P-080-A-001	Cylinder/Upper Lock Assembly (Surface)	1
1	P-090-A-001	Leg Assembly, SURFACE	1

Parts List		SCALE	DRAWN	MOHAWK RESOURCES LTD.
ITEM	NAME	1/8"	dat	LEG TO PLATFORM
		CHECKED	APPROVED	SUB-ASSEMBLY, SURFACE
		DATE	WEIGHT	DRAWING NUMBER
		4/17/03	869	P-030-A-005
			LB	

NOTES:
 1. REMOVE ALL SHARP CORNERS & EDGES.
 2. UNLESS OTHERWISE SPECIFIED, SURFACE FINISH SHALL BE 320.
 3. WELDING SHALL CONFORM TO AWS SPECIFICATIONS TO E-70XX ELECTRODES OR E-7011 CODE S3 FLUX CUBE WIRE ONLY.

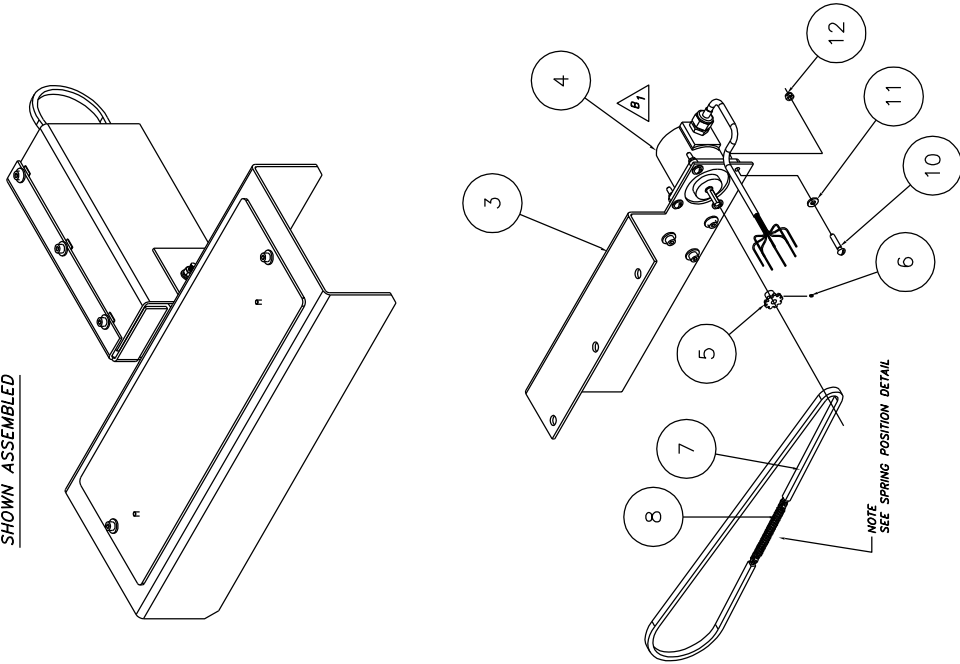
NOTICE OF CONFIDENTIAL INFORMATION
 INFORMATION CONTAINED HEREIN IS CONFIDENTIAL AND PROPERTY OF MOHAWK RESOURCES LTD. THE DRAWING IS LOANED TO OTHERS FOR INFORMATION ONLY. THE INFORMATION SHALL NOT BE COPIED OR DISCLOSED TO ANY OTHER PARTY WITHOUT WRITTEN PERMISSION.

SURFACE

D-SIZE

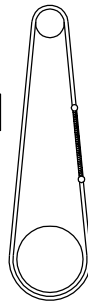
#	DESCRIPTION	DATE	APPROVED
A	1. Spring on cover lifted to other side. 2. Item 13 ODJ. wgs 9. 3. Item 14 ODJ. wgs 13.	09/11/2003	rw7/089
B	1. Item 16 ODJ. wgs 15. 2. Item 17 ODJ. wgs 15. 3. Item 18 ODJ. wgs 15. 4. Item 19 ODJ. wgs 15. 5. Item 20 ODJ. wgs 15. 6. Item 21 ODJ. wgs 15. 7. Item 22 ODJ. wgs 15. 8. Item 23 ODJ. wgs 15. 9. Item 24 ODJ. wgs 15. 10. Item 25 ODJ. wgs 15. 11. Item 26 ODJ. wgs 15. 12. Item 27 ODJ. wgs 15. 13. Item 28 ODJ. wgs 15. 14. Item 29 ODJ. wgs 15. 15. Item 30 ODJ. wgs 15. 16. Item 31 ODJ. wgs 15. 17. Item 32 ODJ. wgs 15. 18. Item 33 ODJ. wgs 15. 19. Item 34 ODJ. wgs 15. 20. Item 35 ODJ. wgs 15. 21. Item 36 ODJ. wgs 15. 22. Item 37 ODJ. wgs 15. 23. Item 38 ODJ. wgs 15. 24. Item 39 ODJ. wgs 15. 25. Item 40 ODJ. wgs 15. 26. Item 41 ODJ. wgs 15. 27. Item 42 ODJ. wgs 15. 28. Item 43 ODJ. wgs 15. 29. Item 44 ODJ. wgs 15. 30. Item 45 ODJ. wgs 15. 31. Item 46 ODJ. wgs 15. 32. Item 47 ODJ. wgs 15. 33. Item 48 ODJ. wgs 15. 34. Item 49 ODJ. wgs 15. 35. Item 50 ODJ. wgs 15. 36. Item 51 ODJ. wgs 15. 37. Item 52 ODJ. wgs 15. 38. Item 53 ODJ. wgs 15. 39. Item 54 ODJ. wgs 15. 40. Item 55 ODJ. wgs 15. 41. Item 56 ODJ. wgs 15. 42. Item 57 ODJ. wgs 15. 43. Item 58 ODJ. wgs 15. 44. Item 59 ODJ. wgs 15. 45. Item 60 ODJ. wgs 15. 46. Item 61 ODJ. wgs 15. 47. Item 62 ODJ. wgs 15. 48. Item 63 ODJ. wgs 15. 49. Item 64 ODJ. wgs 15. 50. Item 65 ODJ. wgs 15. 51. Item 66 ODJ. wgs 15. 52. Item 67 ODJ. wgs 15. 53. Item 68 ODJ. wgs 15. 54. Item 69 ODJ. wgs 15. 55. Item 70 ODJ. wgs 15. 56. Item 71 ODJ. wgs 15. 57. Item 72 ODJ. wgs 15. 58. Item 73 ODJ. wgs 15. 59. Item 74 ODJ. wgs 15. 60. Item 75 ODJ. wgs 15. 61. Item 76 ODJ. wgs 15. 62. Item 77 ODJ. wgs 15. 63. Item 78 ODJ. wgs 15. 64. Item 79 ODJ. wgs 15. 65. Item 80 ODJ. wgs 15. 66. Item 81 ODJ. wgs 15. 67. Item 82 ODJ. wgs 15. 68. Item 83 ODJ. wgs 15. 69. Item 84 ODJ. wgs 15. 70. Item 85 ODJ. wgs 15. 71. Item 86 ODJ. wgs 15. 72. Item 87 ODJ. wgs 15. 73. Item 88 ODJ. wgs 15. 74. Item 89 ODJ. wgs 15. 75. Item 90 ODJ. wgs 15. 76. Item 91 ODJ. wgs 15. 77. Item 92 ODJ. wgs 15. 78. Item 93 ODJ. wgs 15. 79. Item 94 ODJ. wgs 15. 80. Item 95 ODJ. wgs 15. 81. Item 96 ODJ. wgs 15. 82. Item 97 ODJ. wgs 15. 83. Item 98 ODJ. wgs 15. 84. Item 99 ODJ. wgs 15. 85. Item 100 ODJ. wgs 15.	09/11/2003	rw7/089
	1. Item 16 ODJ. wgs 15. 2. Item 17 ODJ. wgs 15. 3. Item 18 ODJ. wgs 15. 4. Item 19 ODJ. wgs 15. 5. Item 20 ODJ. wgs 15. 6. Item 21 ODJ. wgs 15. 7. Item 22 ODJ. wgs 15. 8. Item 23 ODJ. wgs 15. 9. Item 24 ODJ. wgs 15. 10. Item 25 ODJ. wgs 15. 11. Item 26 ODJ. wgs 15. 12. Item 27 ODJ. wgs 15. 13. Item 28 ODJ. wgs 15. 14. Item 29 ODJ. wgs 15. 15. Item 30 ODJ. wgs 15. 16. Item 31 ODJ. wgs 15. 17. Item 32 ODJ. wgs 15. 18. Item 33 ODJ. wgs 15. 19. Item 34 ODJ. wgs 15. 20. Item 35 ODJ. wgs 15. 21. Item 36 ODJ. wgs 15. 22. Item 37 ODJ. wgs 15. 23. Item 38 ODJ. wgs 15. 24. Item 39 ODJ. wgs 15. 25. Item 40 ODJ. wgs 15. 26. Item 41 ODJ. wgs 15. 27. Item 42 ODJ. wgs 15. 28. Item 43 ODJ. wgs 15. 29. Item 44 ODJ. wgs 15. 30. Item 45 ODJ. wgs 15. 31. Item 46 ODJ. wgs 15. 32. Item 47 ODJ. wgs 15. 33. Item 48 ODJ. wgs 15. 34. Item 49 ODJ. wgs 15. 35. Item 50 ODJ. wgs 15. 36. Item 51 ODJ. wgs 15. 37. Item 52 ODJ. wgs 15. 38. Item 53 ODJ. wgs 15. 39. Item 54 ODJ. wgs 15. 40. Item 55 ODJ. wgs 15. 41. Item 56 ODJ. wgs 15. 42. Item 57 ODJ. wgs 15. 43. Item 58 ODJ. wgs 15. 44. Item 59 ODJ. wgs 15. 45. Item 60 ODJ. wgs 15. 46. Item 61 ODJ. wgs 15. 47. Item 62 ODJ. wgs 15. 48. Item 63 ODJ. wgs 15. 49. Item 64 ODJ. wgs 15. 50. Item 65 ODJ. wgs 15. 51. Item 66 ODJ. wgs 15. 52. Item 67 ODJ. wgs 15. 53. Item 68 ODJ. wgs 15. 54. Item 69 ODJ. wgs 15. 55. Item 70 ODJ. wgs 15. 56. Item 71 ODJ. wgs 15. 57. Item 72 ODJ. wgs 15. 58. Item 73 ODJ. wgs 15. 59. Item 74 ODJ. wgs 15. 60. Item 75 ODJ. wgs 15. 61. Item 76 ODJ. wgs 15. 62. Item 77 ODJ. wgs 15. 63. Item 78 ODJ. wgs 15. 64. Item 79 ODJ. wgs 15. 65. Item 80 ODJ. wgs 15. 66. Item 81 ODJ. wgs 15. 67. Item 82 ODJ. wgs 15. 68. Item 83 ODJ. wgs 15. 69. Item 84 ODJ. wgs 15. 70. Item 85 ODJ. wgs 15. 71. Item 86 ODJ. wgs 15. 72. Item 87 ODJ. wgs 15. 73. Item 88 ODJ. wgs 15. 74. Item 89 ODJ. wgs 15. 75. Item 90 ODJ. wgs 15. 76. Item 91 ODJ. wgs 15. 77. Item 92 ODJ. wgs 15. 78. Item 93 ODJ. wgs 15. 79. Item 94 ODJ. wgs 15. 80. Item 95 ODJ. wgs 15. 81. Item 96 ODJ. wgs 15. 82. Item 97 ODJ. wgs 15. 83. Item 98 ODJ. wgs 15. 84. Item 99 ODJ. wgs 15. 85. Item 100 ODJ. wgs 15.	10/07/2003	rw7/089

SHOWN ASSEMBLED



NOTE
SEE SPRING POSITION DETAIL

SPRING POSITION WHEN
LIFT FULL COVERED



TOP OF PLATFORM

D-SIZE

NOTICE OF CONFIDENTIAL INFORMATION
THIS DOCUMENT CONTAINS INFORMATION OF CONFIDENTIAL NATURE. IT IS THE PROPERTY OF MOHAWK RESOURCES LTD. AND IS NOT TO BE DISCLOSED TO ANY OTHER PARTY WITHOUT THE WRITTEN PERMISSION OF MOHAWK RESOURCES LTD. THE INFORMATION SHALL NOT BE USED OR REPRODUCED FOR ANY OTHER PURPOSES WHATSOEVER.

NOTES:
1. REMOVE ALL SHARP CORNERS & EDGES.
2. UNLESS OTHERWISE SPECIFIED, SURFACE FINISH TO BE 125 RMS.
3. SPECIFICATIONS TO E-70XX ELECTRODES OR E-7011 CODE S3 FLUX CORE WIRE ONLY.

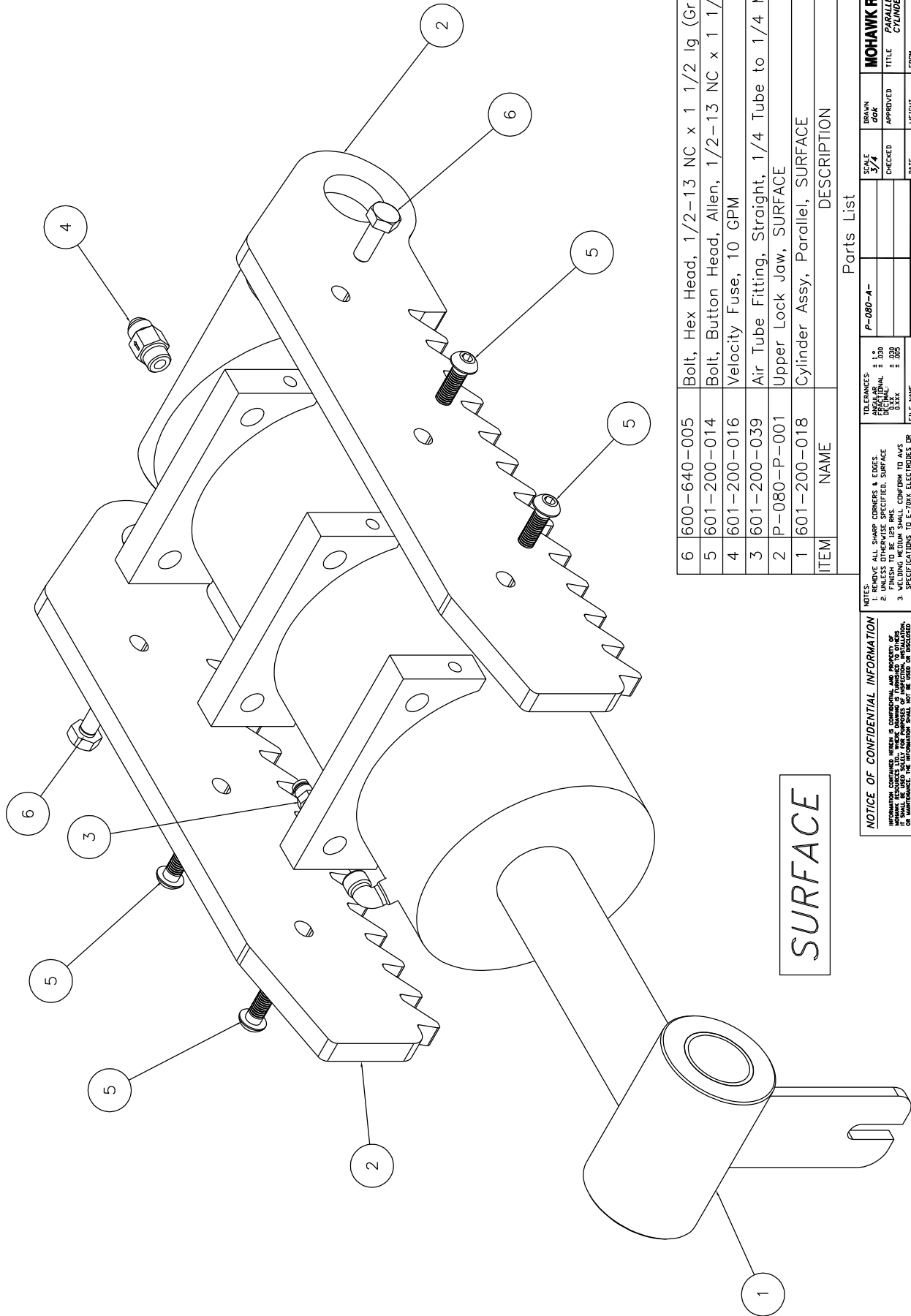
TOLERANCES:
ANGULAR ± .030
DIMENSIONAL ± .005
HOLE DIA ± .005
HOLE DIA ± .005
FILE NAME
P-030-A-006

ITEM	NAME	DESCRIPTION	QTY
P-030-			
	SCALE	1/4"	
	PROVIN	0/0K	
	CHECKED		
	DATE	4/18/03	
	WEIGHT	15	
	LB		
	FROM		
	TRAVEL NUMBER		
	ASSEMBLY		
	ENCODER BOX ASSEMBLY		
	P-030-A-006		

Parts List

16	600-680-006	Nut, Plain, 1/4-20 NC	3
15	600-720-007	Washer, Lock, 1/4	3
14	600-710-004	Washer, Flat, 1/4	11
13	600-650-008	Socket Cap Bolt, 1/4-20 NC x 1" Lg	8
12	600-690-019	Nut, Nylon Lock, #10-32 NF	4
11	600-710-013	Washer, Flat, #10	4
10	600-600-005	Screw, Slotted Round Head, #10-32 NF x 1	4
9	601-200-010	U-Nut, Automotive, 1/4-20	5
8	601-200-034	Spring, Extension, 2" Lg	1
7	P-030-P-401	Chain, Roller, Stainless Steel, 31" Long	1
6	600-630-009	Set Screw, #4-40 NC x 1/8 Lg	1
5	601-200-032	Sprocket, Encoder	1
4	601-165-066	Encoder, w/ Flat Shaft & Pre-Wired Cable	1
3	P-150-P-009	Encoder Mounting Bracket	1
2	P-150-P-008	Encoder Chain Cover	1
1	P-150-A-001	Cover Assy, Encoder Box	1

MOHAWK RESOURCES LTD.



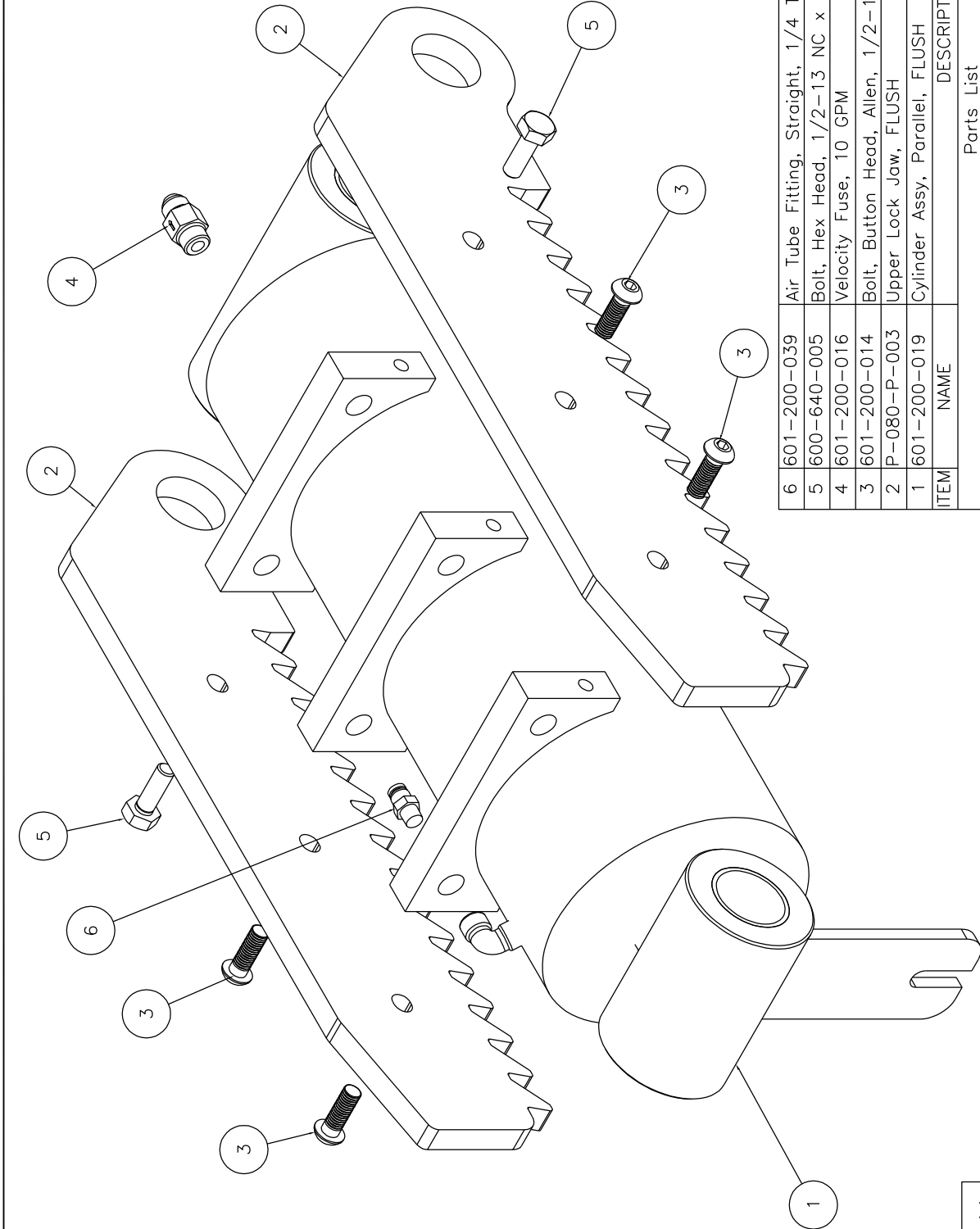
ITEM	NAME	DESCRIPTION	QTY
6	600-640-005	Bolt, Hex Head, 1/2-13 NC x 1 1/2 lg (Gr 5)	2
5	601-200-014	Bolt, Button Head, Allen, 1/2-13 NC x 1 1/2 (GR5)	4
4	601-200-016	Velocity Fuse, 10 GPM	1
3	601-200-039	Air Tube Fitting, Straight, 1/4 Tube to 1/4 MNPT	1
2	P-080-P-001	Upper Lock Jaw, SURFACE	2
1	601-200-018	Cylinder Assy, Parallel, SURFACE	1

NOTES:		TOLERANCES:		SCALE:		DRAWN:	
1.	REMOVE ALL SHARP CORNERS & EDGES.	ANGULAR	± .030	3/4"		CHK	
2.	UNLESS OTHERWISE SPECIFIED, SURFACE FINISH SHALL BE 320.	LINEAR	± .005	CHECKED		APPROVED	
3.	WELDING METALS SHALL CONFORM TO AAS SPECIFICATIONS TO E-70XX ELECTRODES OR E-70T1 CODE 5.3 FLUX CORE WIRE ONLY.	DRILL	± .005	DATE	4/5/03	WEIGHT	796.18 LB
		FILE NAME	P-080-A-001	NEXT ASSEMBLY		FROM	P-080-A-001

NOTICE OF CONFIDENTIAL INFORMATION
 MOHAWK RESOURCES LTD. HAS A CONFIDENTIAL AND PROPRIETARY INFORMATION POLICY. WHERE APPROPRIATE, THIS POLICY IS APPLIED TO ALL INFORMATION THAT IS GENERATED BY OR FOR MOHAWK RESOURCES LTD. OR ITS AFFILIATES. THIS INFORMATION SHALL NOT BE DISCLOSED BY THE RECIPIENT FOR ANY OTHER PURPOSES WITHOUT THE WRITTEN PERMISSION OF MOHAWK RESOURCES LTD.

Parts List		MOHAWK RESOURCES LTD.	
P-080-A-		TITLE	PARALLEL CYLINDER - SURFACE
		TITLE	CYLINDER/UPPER LOCK ASSY
		FROM	P-080-A-001

SURFACE



NOTICE OF CONFIDENTIAL INFORMATION
 MOHAWK RESOURCES, LIMITED, IS A COMPANY OF MOHAWK RESOURCES LTD. WHERE APPROPRIATE, THE INFORMATION IS SUPPLIED TO OTHERS ON A CONFIDENTIAL BASIS. THE INFORMATION SHALL NOT BE USED, REPRODUCED, COPIED, OR DISCLOSED IN ANY MANNER FOR ANY OTHER PURPOSES WITHOUT THE WRITTEN PERMISSION OF MOHAWK RESOURCES, LIMITED.

NOTES:
 1. REMOVE ALL SHARP CORNERS & EDGES.
 2. UNLESS OTHERWISE SPECIFIED, SURFACE FINISH SHALL BE 320.
 3. WELDING METHOD SHALL CONFORM TO AWS SPECIFICATIONS TO E-70XX ELECTRODES OR E-70T1 CODE S3 FLUX CORE WIRE ONLY.
 FILE NAME: P-080-A-002
 NEXT ASSEMBLY:

TO DIMENSIONS:
 P-080-A-
 SCALE: 3/4"
 CHECKED: []
 DATE: 4/5/03
 WEIGHT: 201.78 LB.
 DRAWING NUMBER: P-080-A-002

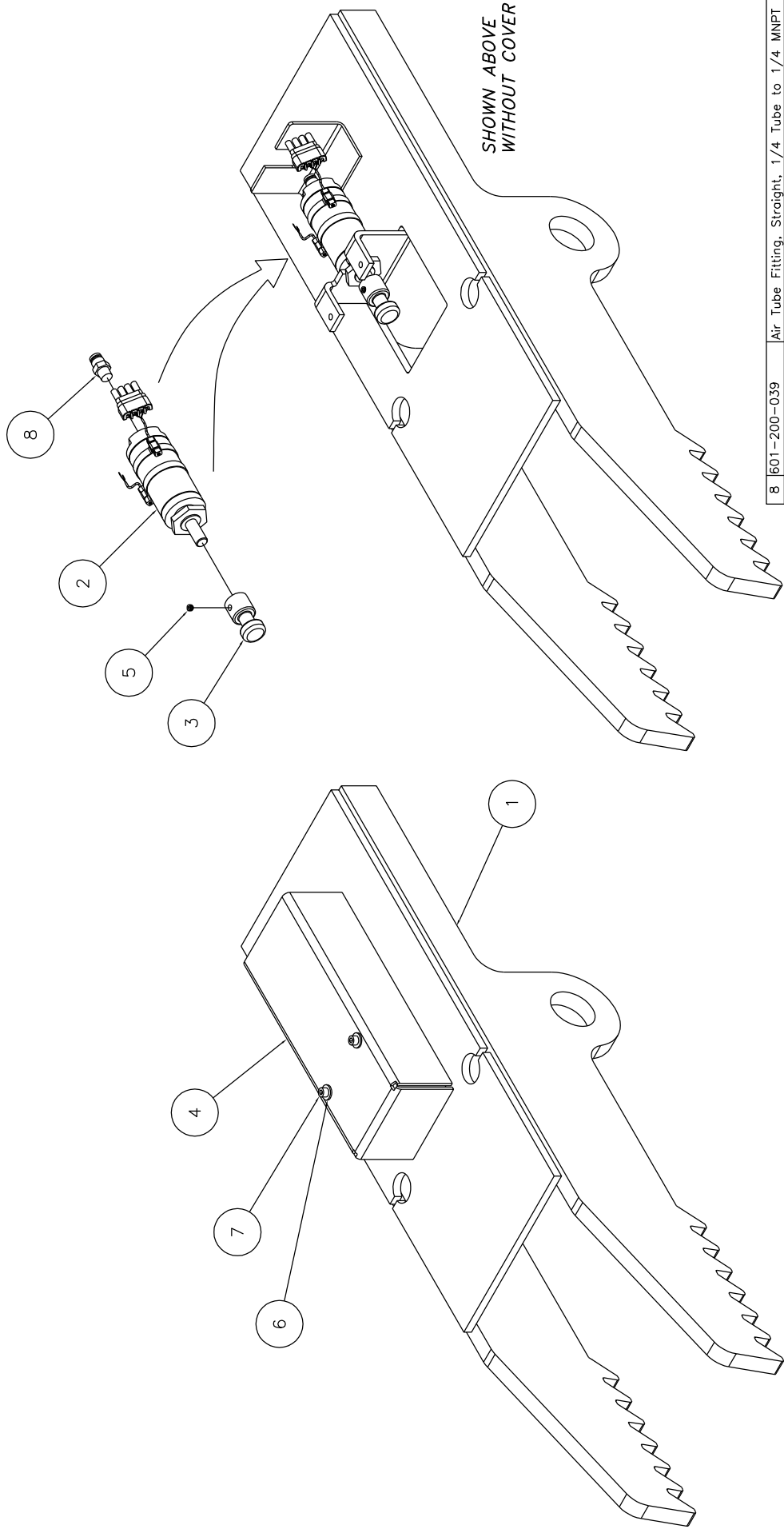
FLUSH

D-SIZE

ITEM	NAME	DESCRIPTION	QTY
6	601-200-039	Air Tube Fitting, Straight, 1/4 Tube to 1/4 MNPT	1
5	600-640-005	Bolt, Hex Head, 1/2-13 NC x 1 1/2 lg (Gr 5)	2
4	601-200-016	Velocity Fuse, 10 GPM	1
3	601-200-014	Bolt, Button Head, Allen, 1/2-13 NC x 1 1/2 (Gr5)	4
2	P-080-P-003	Upper Lock Jaw, FLUSH	2
1	601-200-019	Cylinder Assy, Parallel, FLUSH	1

Parts List

MOHAWK RESOURCES LTD.
 PARALLELOGRAM - FLUSH
 CYLINDER/UPPER LOCK ASSEMBLY
 FROM: P-080-A-002



SHOWN ABOVE
WITHOUT COVER

SURFACE

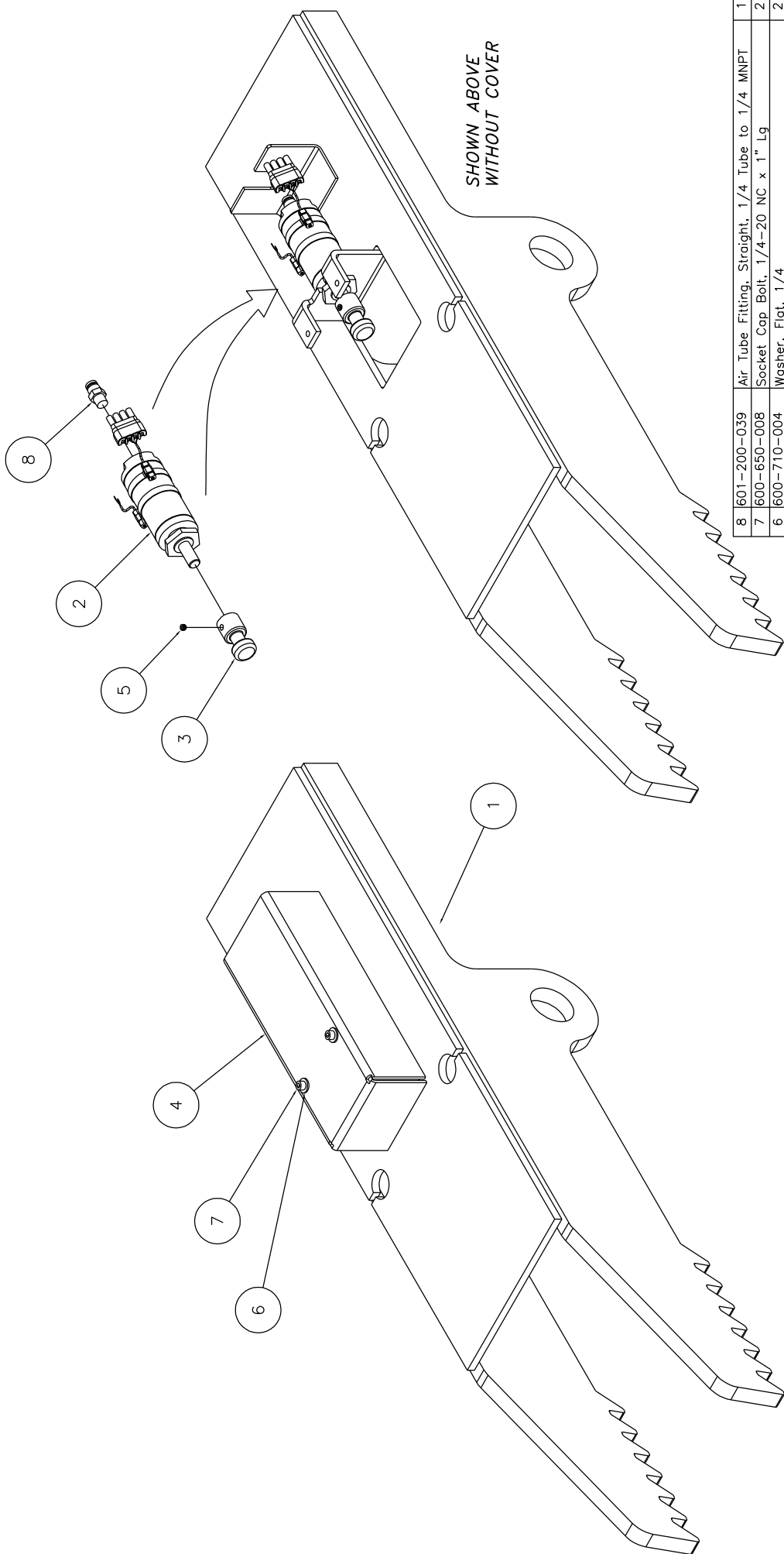
1	Air Tube Fitting, Straight, 1/4 Tube to 1/4 MNPT
2	Socket Cap Bolt, 1/4-20 NC x 1" Lg
2	Washer, Flat, 1/4
1	Set Screw, 1/4-20 NC x 3/16 Lg
1	Air Cylinder Cover
1	Bobbin, Air Cylinder
1	L/R Air Cylinder Assembly
1	Lower Lock Weldment, SURFACE
QTY	DESCRIPTION

PARTS LIST	
DATE	4/16/03
WEIGHT	1/2 LB
FROM	n/g
DRAWING NUMBER	
P-080-A-003	

NOTES:
 1. REMOVE ALL SHARP CORNERS & EDGES.
 2. UNLESS OTHERWISE SPECIFIED, SURFACE FINISH TO BE 125 RMS.
 3. CONFORM TO AWS SPECIFICATIONS TO E-70XX ELECTRODES OR E-7011 CODE 5.3 FLUX CORE WIRE ONLY.

NOTICE OF CONFIDENTIAL INFORMATION
 THIS DOCUMENT IS THE PROPERTY OF MOHAWK RESOURCES LTD. IT IS TO BE KEPT CONFIDENTIAL AND NOT TO BE LOANED, REPRODUCED, COPIED, OR DISCLOSED TO ANY OTHER PERSONS WITHOUT THE WRITTEN PERMISSION OF MOHAWK RESOURCES LTD. THE INFORMATION CONTAINED HEREIN IS UNCLASSIFIED AND NOT BE LOANED OR REPRODUCED BY THE RECIPIENT FOR ANY OTHER PURPOSES WHATSOEVER.

MOHAWK RESOURCES LTD.
 1000
 1/2
 APPROVED
 MOHAWK RESOURCES LTD.
 LOWER LOCK ASSEMBLY, SURFACE
 P-080-A-003



SHOWN ABOVE
WITHOUT COVER

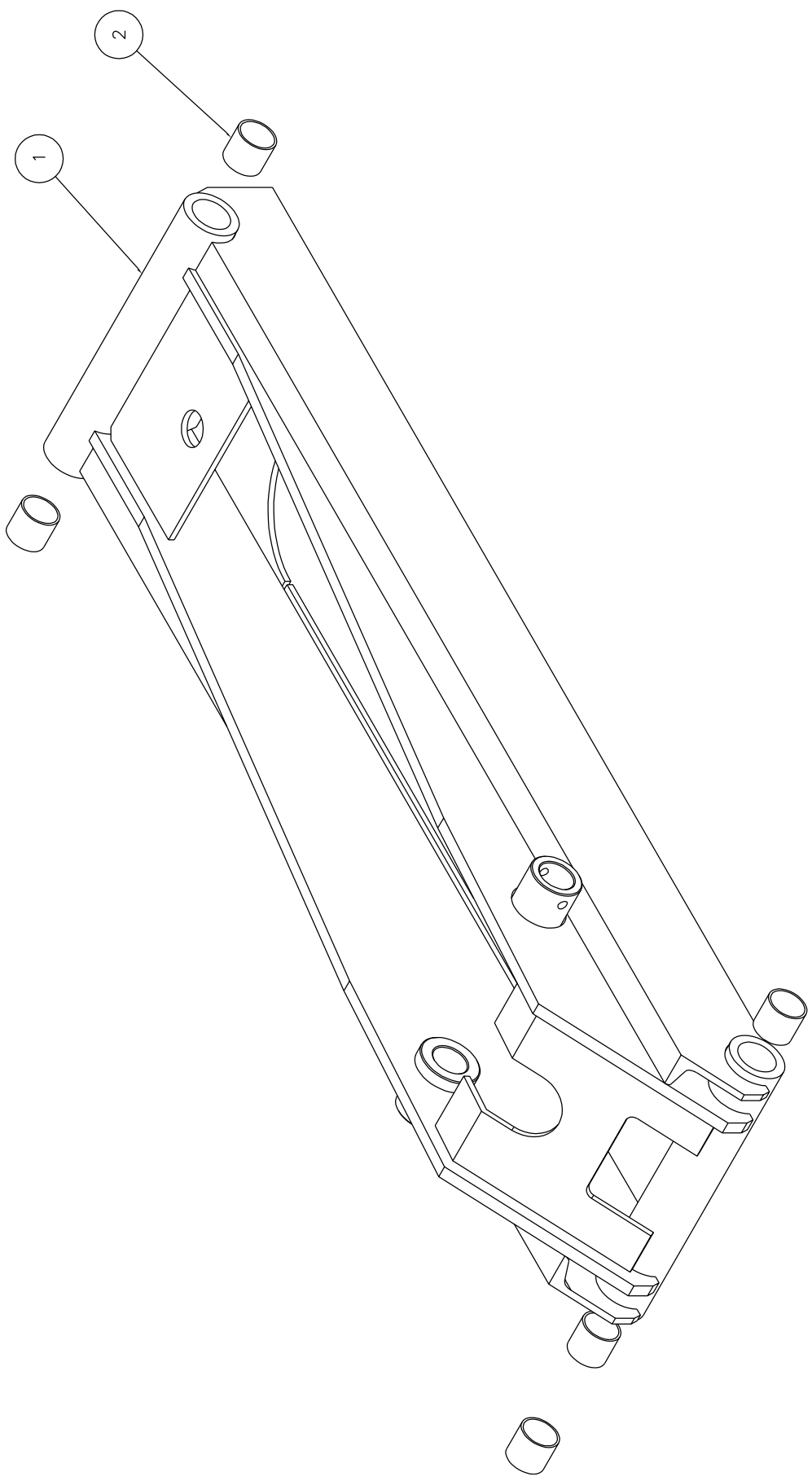
ITEM	NAME	DESCRIPTION	QTY
8	601-200-039	Air Tube Fitting, Straight, 1/4 Tube to 1/4 MNPT	1
7	600-650-008	Socket Cap Bolt, 1/4-20 NC x 1" Lg	2
6	600-710-004	Washer, Flat, 1/4	2
5	600-630-008	Set Screw, 1/4-20 NC x 3/16 Lg	1
4	P-150-P-010	Air Cylinder Cover	1
3	P-080-P-005	Bobbin, Air Cylinder	1
2	P-200-A-002	L/R Air Cylinder Assembly	1
1	P-080-W-002	Lower Lock Weldment, Flush	1

PARTS LIST		SCALE	
TOLERANCES	± 1.0	DRAWN	rw7089
ANGULAR	± 0.50	CHECKED	
DECIMAL	± 0.05	DATE	4/17/03
FRAC	± 0.005	WEIGHT	733.3 LB
FILE NAME	P-080-A-004	FROM	n/g
		TITLE	Lower Lock Assy, FLUSH
		IRAWING NUMBER	P-080-A-004

NOTES:
 1. REMOVE ALL SHARP CORNERS & EDGES.
 2. UNLESS OTHERWISE SPECIFIED, SURFACE FINISH TO BE 125 RMS.
 3. ALL DIMENSIONS CONFORM TO AISC SPECIFICATIONS TO E-70XX ELECTRODES OR E-7011 COBE S3 FLUX CORE WIRE ONLY.

NOTICE OF CONFIDENTIAL INFORMATION
 INFORMATION CONTAINED HEREIN IS CONFIDENTIAL AND PROPERTY OF MOHAWK RESOURCES LTD. THIS DOCUMENT IS TO BE USED ONLY FOR THE PURPOSES SPECIFIED BY THE RECIPIENT FOR ANY OTHER PURPOSES WITHOUT THE WRITTEN PERMISSION OF MOHAWK RESOURCES LTD.

FLUSH



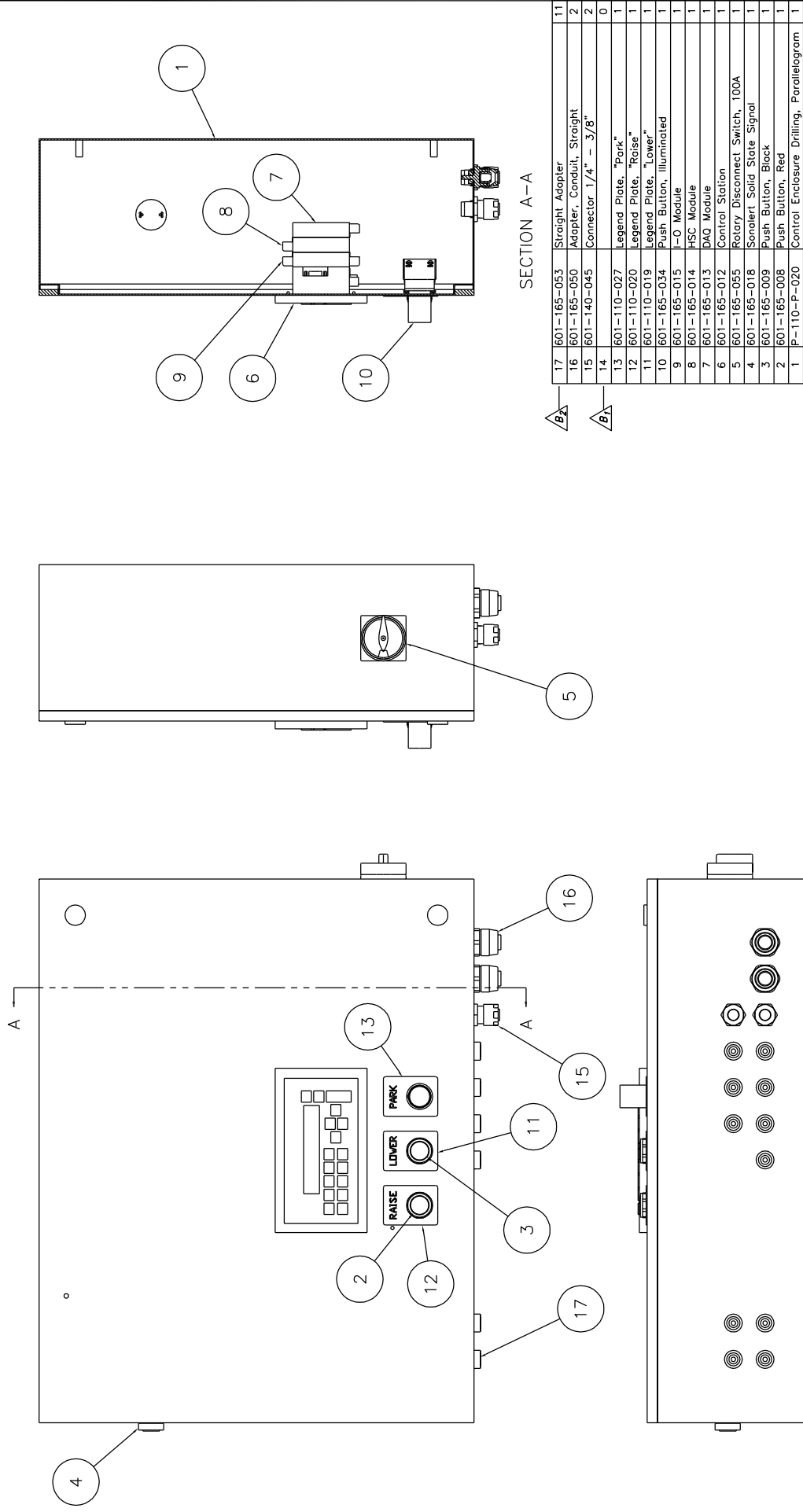
2	601-200-015	Bushing, Composite, 2" ID x 2 1/2 OD x 2" Lg	6
1	P-090-W-001	Leg Member Weldment	1
ITEM	NAME	DESCRIPTION	QTY

Parts List

NOTES: 1. REMOVE ALL SHARP CORNERS & EDGES. 2. FINISH TO BE 125 RMS. CONFORM TO AWS E-70XX COBE TO E-70XX ELECTRODES OR E-7011 COBE E3 FLUX CORE WIRE DML Y. 3. SPECIFICATIONS TO E-70XX ELECTRODES OR E-7011 COBE E3 FLUX CORE WIRE DML Y.	TELEPHONE'S APPROVAL: 1. 1.0 APPROVAL: 1. 0.00 APPROVAL: 1. 0.00	DRAWN P-090-W-001	MOHAWK RESOURCES LTD. Leg Assembly, SURFACE
		CHECKED DATE 4/16/03	APPROVED WEIGHT 508
NOTICE OF CONFIDENTIAL INFORMATION THIS DRAWING IS THE PROPERTY OF MOHAWK RESOURCES LTD. AND IS TO BE USED ONLY FOR THE PURPOSES SPECIFIED HEREIN. IT IS NOT TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF MOHAWK RESOURCES LTD. THIS DRAWING SHALL BE USED AND CONTROLLED BY THE RECIPIENT FOR ANY OTHER PURPOSES UNLESS OTHERWISE STATED.		NEXT ASSEMBLY	DRAWING NUMBER P-090-A-001

NOTE: MATCH DRILL ENCLOSURE DOOR FOR THREADS ON CONTROL DISPLAY (ITEM 6)

#	DESCRIPTION	DATE	APPROVED
A	Item 5 was 601-165-022	07/16/2003	rw7089
B	Item 14 was 601-140-045. Qty. 2	12/22/2003	rw7089
C	Item 1 was 601-165-034. Qty. 01	02/06/2004	rw7089
	Control Enclosure Resignated on Ballroom	02/06/2004	rw7089
	of Enclosure		



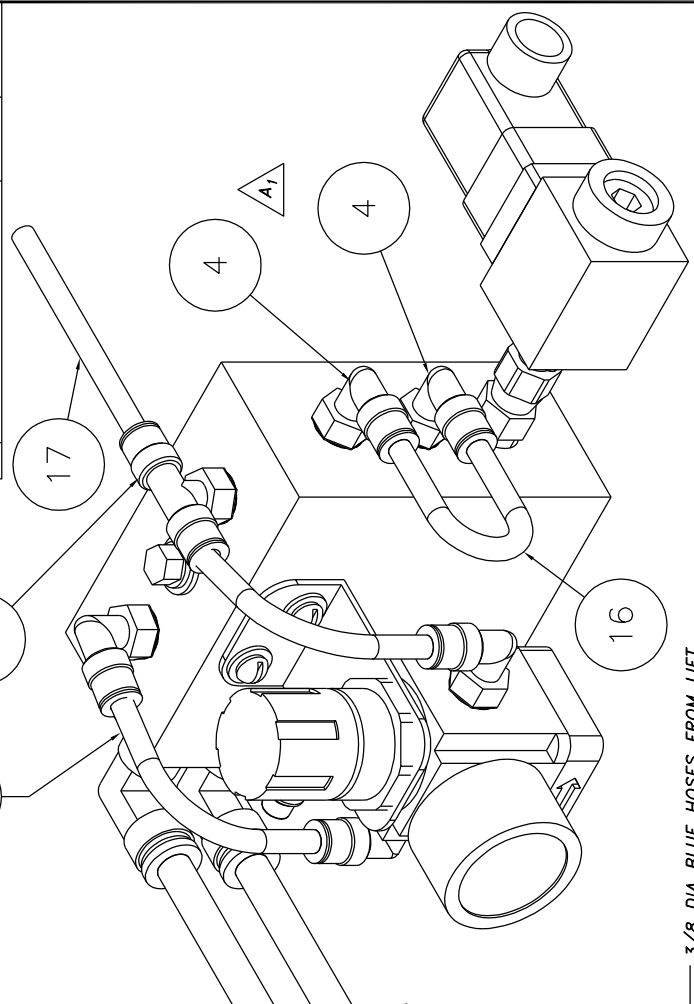
SECTION A-A

ITEM	NAME	DESCRIPTION	QTY
17	601-165-053	Straight Adapter	11
16	601-165-050	Adapter, Conduit, Straight	2
15	601-140-045	Connector 1/4" - 3/8"	2
14			0
13	601-110-027	Legend Plate, "Park"	1
12	601-110-020	Legend Plate, "Raise"	1
11	601-110-019	Legend Plate, "Lower"	1
10	601-165-034	Push Button, Illuminated	1
9	601-165-015	I-O Module	1
8	601-165-014	HSC Module	1
7	601-165-013	DAQ Module	1
6	601-165-012	Control Station	1
5	601-165-055	Rotary Disconnect Switch, 100A	1
4	601-165-018	Sonolent Solid State Signal	1
3	601-165-009	Push Button, Black	1
2	601-165-008	Push Button, Red	1
1	P-110-P-020	Control Enclosure Drilling, Parallelogram	1
		DESCRIPTION	

NOTICE OF CONFIDENTIAL INFORMATION		PARTS LIST	
UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES. DIMENSIONS IN PARENTHESES ARE FOR INFORMATION ONLY. DIMENSIONS IN PARENTHESES SHALL NOT BE USED FOR FABRICATION OF PARTS UNLESS THE INFORMATION IS SPECIFICALLY IDENTIFIED BY THE RECIPIENT FOR ANY OTHER PURPOSES WHATSOEVER.		SCALE	TRADE
		1:1	CDW
1. REMOVE ALL SHARP CORNERS & EDGES. 2. UNLESS OTHERWISE SPECIFIED, SURFACE FINISH TO BE 125 RMS CONFORM TO ASK SPECIFICATIONS TO E-70XX ELECTRODES OR E-7011 CODE 5.3 FLUX CORE WIRE ONLY.		CHECKED	APPROVED
TOLERANCES: ANGULAR ± 1° DIMENSIONAL ± .030 DECIMAL ± .005 DECIMAL ± .002 DECIMAL ± .005		DATE	FILE NAME
		10/02/02	P-110-A-011
		WEIGHT	FROM
		70	N/A
		LB	INCHES
			Parallelogram
			Control Enclosure
			TITLE
			P-110-A-011
			DRAWING NUMBER
			P-110-A-011

MOHAWK RESOURCES LTD.
Parallelogram
Control Enclosure

#	DESCRIPTION	DATE	APPROVED
A	1. 90 Degree Fittings Rotated	07/16/2003	rww7089
B	1) ITEMS 9, 10 & 11 WERE QTY 2	04/12/2004	rww7089
	2) QTY OF ITEM 8 WAS (1) CHANGED TO 'REF'	04/13/2004	dck0879



3/8 DIA BLUE HOSES FROM LIFT
(AIR TO JACK & TRACK RAIL)

ITEM	NAME	DESCRIPTION	QTY
17	P-110-P-422	Plastic Tubing, Yellow, 1/4 Dia x 12"	1
16	P-110-P-421	Plastic Tubing, Yellow, 1/4 Dia x 6"	1
15	P-110-P-420	Plastic Tubing, Yellow, 1/4 Dia x 4"	2
14	600-720-009	Washer, Lock, #10	2
13	600-710-013	Washer, Flat, #10	2
12	600-600-006	Screw, Slotted Round Head, #10-32 NF x 1/2 Lg	2
11	600-720-007	Washer, Lock, 1/4	1
10	600-710-004	Washer, Flat, 1/4	1
9	600-640-087	Bolt, Hex Head, 1/4-20 NC x 4 1/2" (GR5)	1
8	601-165-038	Pressure Switch W/Din Connector	0
7	601-530-002	Air Coupler Plug Type	1
6	601-520-010	Union Tee, 1/4 Tube to 1/4 NPT	1
5	601-200-038	Air Tube Fitting, 90 Deg Elbow, 3/8 Tube to 3/8 MNPT	2
4	601-520-003	90 Deg Swivel, 1/4 NPT to 1/4 Tube	5
3	601-510-014	Wall Bracket	1
2	601-510-013	Regulator With Gauge	1
1	P-110-P-030	Air Regulator-Manifold Block	1

Parts List	
SCALE	3/4
CHECKED	
DATE	12/5/02
WEIGHT	7.14
LB.	N/A
FROM	N/A
DRAWING NUMBER	P-110-A-020

FILE NAME	P-110-A-020
TOLERANCES:	
ANGULAR	± 1.0°
FRACTIONAL	± .030
DECIMAL	± .030
DXXX	± .003
FILE NAME	P-110-A-020
NEXT ASSEMBLY	

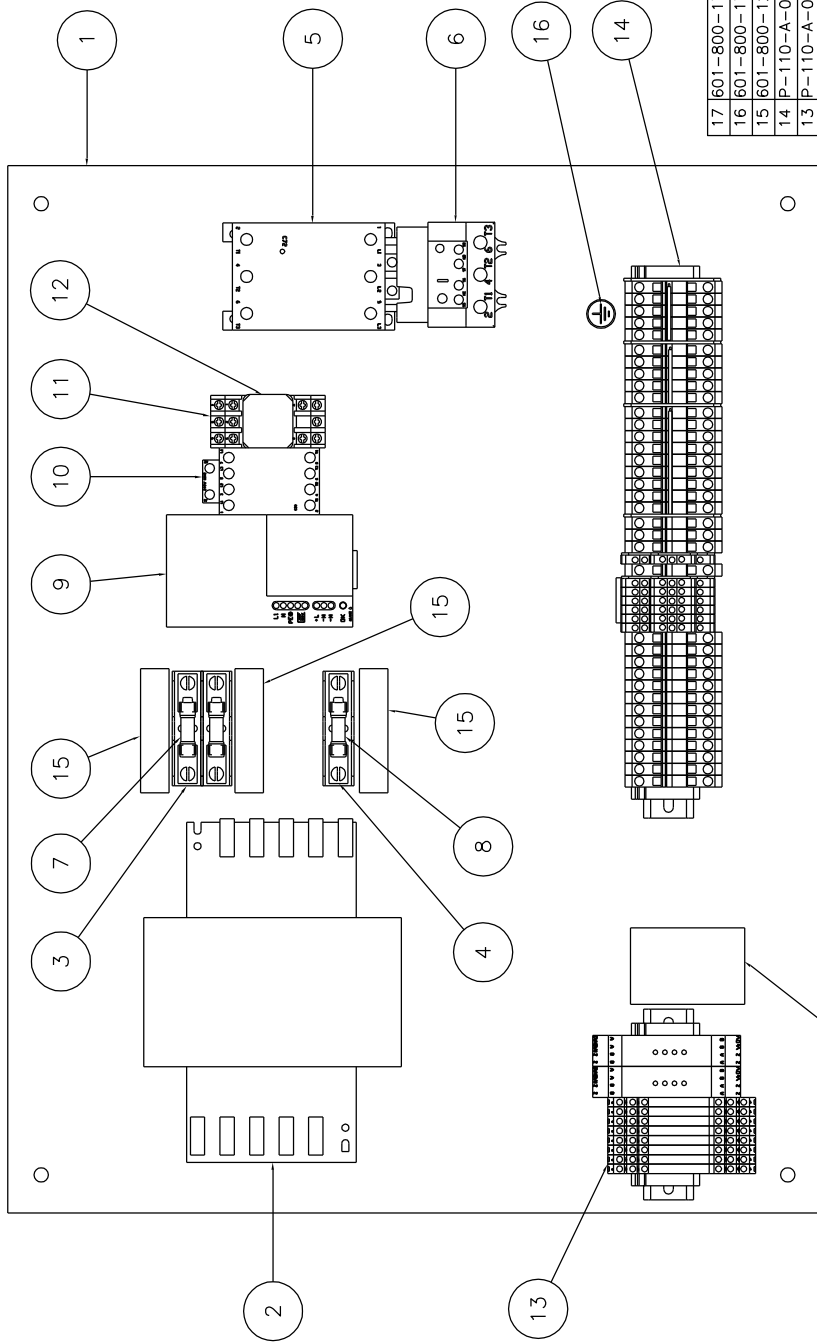
NOTES:
 1. REMOVE ALL SHARP CORNERS & EDGES.
 2. UNLESS OTHERWISE SPECIFIED, SURFACE FINISH TO BE 125 RMS.
 3. WELDING MEDIUM SHALL CONFORM TO AWS SPECIFICATIONS TO E-70XX ELECTRODES OR E-70TTI CODE 5.3 FLUX CORE WIRE ONLY.

NOTICE OF CONFIDENTIAL INFORMATION
 INFORMATION CONTAINED HEREIN IS CONFIDENTIAL AND PROPERTY OF MOHAWK RESOURCES LTD. WHERE DRAWING IS FURNISHED TO OTHERS IT SHALL BE USED SOLELY FOR PURPOSES OF INSPECTION, INSTALLATION, OR MAINTENANCE. THE INFORMATION SHALL NOT BE USED OR DISCLOSED BY THE RECIPIENT FOR ANY OTHER PURPOSES WHATSOEVER.

C-SIZE PC-A-20

MOHAWK RESOURCES LTD.
 DRAWN: rww7089
 APPROVED: (Parallelgram)
 TITLE: Air Regulator-Manifold Assy
 DRAWING NUMBER: P-110-A-020

#	DESCRIPTION	DATE	APPROVED
A	Terminal Strip and Barrier Separated to allow partition. Item 17 Added.	02/06/2004	rw7089



ITEM	NAME	DESCRIPTION	QTY
17	601-800-177	Decal, "Intrinsically Safe Field Wiring Terminals..."	1
16	601-800-175	Ground Identification Decal	1
15	601-800-124	Fuse Replacement Label	3
14	P-110-A-023	Terminal Strip Assembly	1
13	P-110-A-026	Barrier Strip Assembly	1
12	601-165-052	Relay, 24 VDC Coil	1
11	601-160-017	Relay Socket 15A 11Pin Square	1
10	601-165-031	Lighting Contactor	1
9	601-165-067	Power Supply, 120 VAC to 24 VDC, 5 Amp, DIN Mount	1
8	601-120-089	Fuse, 12 Amp, Class CC, Time Delay	2
7	601-120-049	Fuse, 10 Amp, Class CC, Time Delay	1
6	601-165-033	Overload, Contactor, 23-75 Amp	1
5	601-165-032	Contactor, 25 HP, 3 Phase	1
4	601-120-074	Fuse Block, Single, Midjet	1
3	601-120-073	Fuse Block, Double, Class CC	1
2	601-165-019	Transformer, 1000 VA	1
1	P-110-P-024	Panel Drilling, Parallelgram	1

NOTES:
 1. ALL COMPONENTS SHOWN FOR 208-230 VAC, 3 PHASE (OVERLOAD TO BE SET TO 75 AMP)
 2. TO BE WIRE FOR 440-480 VAC, 3 PHASE:
 CHANGE PRIMARY FUSES FROM 10 AMP TO 6 AMP
 CHANGE TRANSFORMER FOR 440-480 VAC
 ADJUST OVERLOAD TO 35 AMP

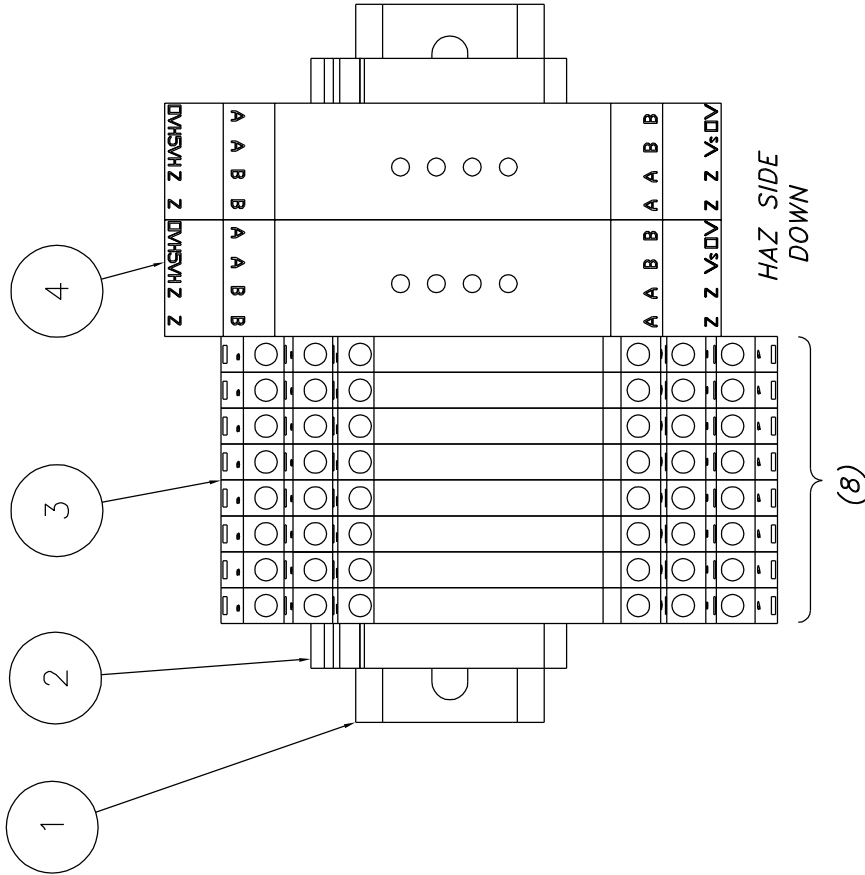
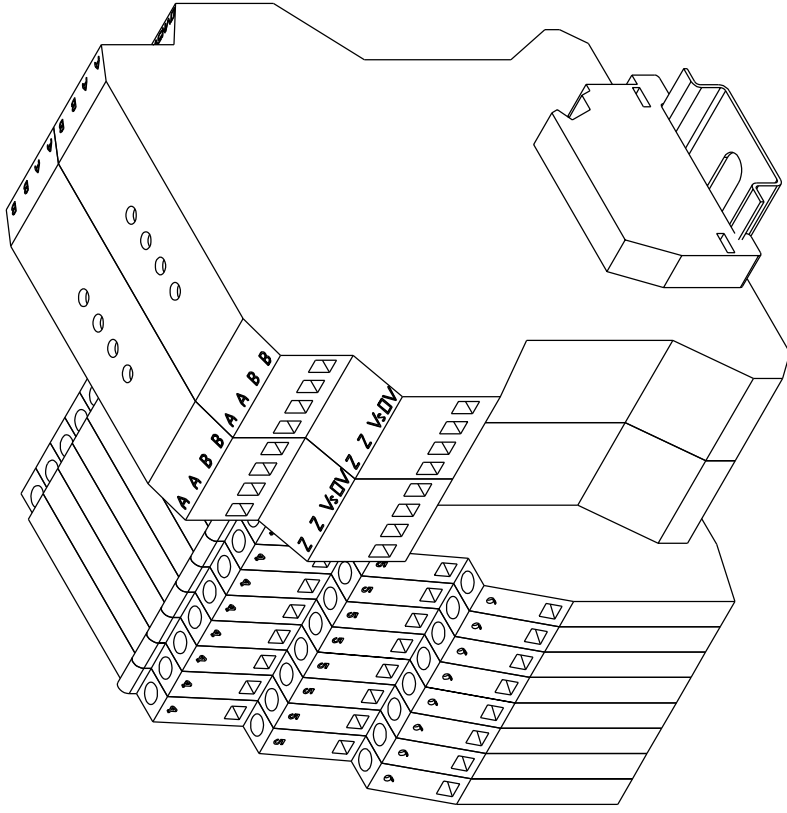
SCALE	APPROVED	TITLE	WEIGHT	FORM
AS IS	rw7089	Parallelgram	70	P-110-A-024
CHECKED		Panel Assembly		
DATE				
FILE NUMBER				
NEXT ASSEMBLY				

NOTICE OF CONFIDENTIAL INFORMATION
 INFORMATION CONTAINED HEREIN IS CONFIDENTIAL AND PROPERTY OF MOHAWK RESOURCES LTD. IT IS TO BE KEPT SECRET FOR PURPOSES OF PROTECTION, METALLURGY, OR QUALITY CONTROL. IT IS NOT TO BE REPRODUCED, COPIED, OR DISCLOSED BY THE RECIPIENT FOR ANY OTHER PURPOSES WHATSOEVER.

NOTES:
 1. REMOVE ALL SHARP CORNERS & EDGES
 2. FINISH TO BE 125 RMS. CONFORM TO AWS
 3. SPECIFICATIONS TO E-7014 ELECTRODES OR E-7011 CODE S.3 FLUX CORE WIRE ONLY.

TOLERANCES
 DIMENSIONAL ± .030
 HOLE DIA. ± .005
 FILE NUMBER P-110-A-024

MOHAWK RESOURCES LTD.
 TITLE Parallelgram
 FORM Panel Assembly
 P-110-A-024



4	601-165-020	Encoder Barrier	2
3	601-165-016	Safety Barrier	8
2	601-165-061	End Stop	2
1	P-110-P-037	Din Rail, 5" Long	1
ITEM	NAME	DESCRIPTION	QTY

Parts List

P-110-A-024		SCALE 1"0"=1'0"	DRAWN rww7089	MOHAWK RESOURCES LTD.	
		CHECKED	APPROVED	TITLE BARRIER STRIP ASSEMBLY	
		DATE 2/6/2004	WEIGHT 1	FRDM	DRAWING NUMBER P-110-A-026
NEXT ASSEMBLY					

TOLERANCES:	± 1.0°
ANGULAR	± .030
FRACTIONAL	± .030
DECIMAL	± .005
XXX	
FILE NAME	P-110-A-026

- NOTES:
- REMOVE ALL SHARP CORNERS & EDGES.
 - UNLESS OTHERWISE SPECIFIED, SURFACE FINISH TO BE 125 RMS.
 - WELDING MEDIUM SHALL CONFORM TO AWS SPECIFICATIONS TO E-70XX ELECTRODES OR E-7011 CODE 53 FLUX CORE WIRE ONLY.

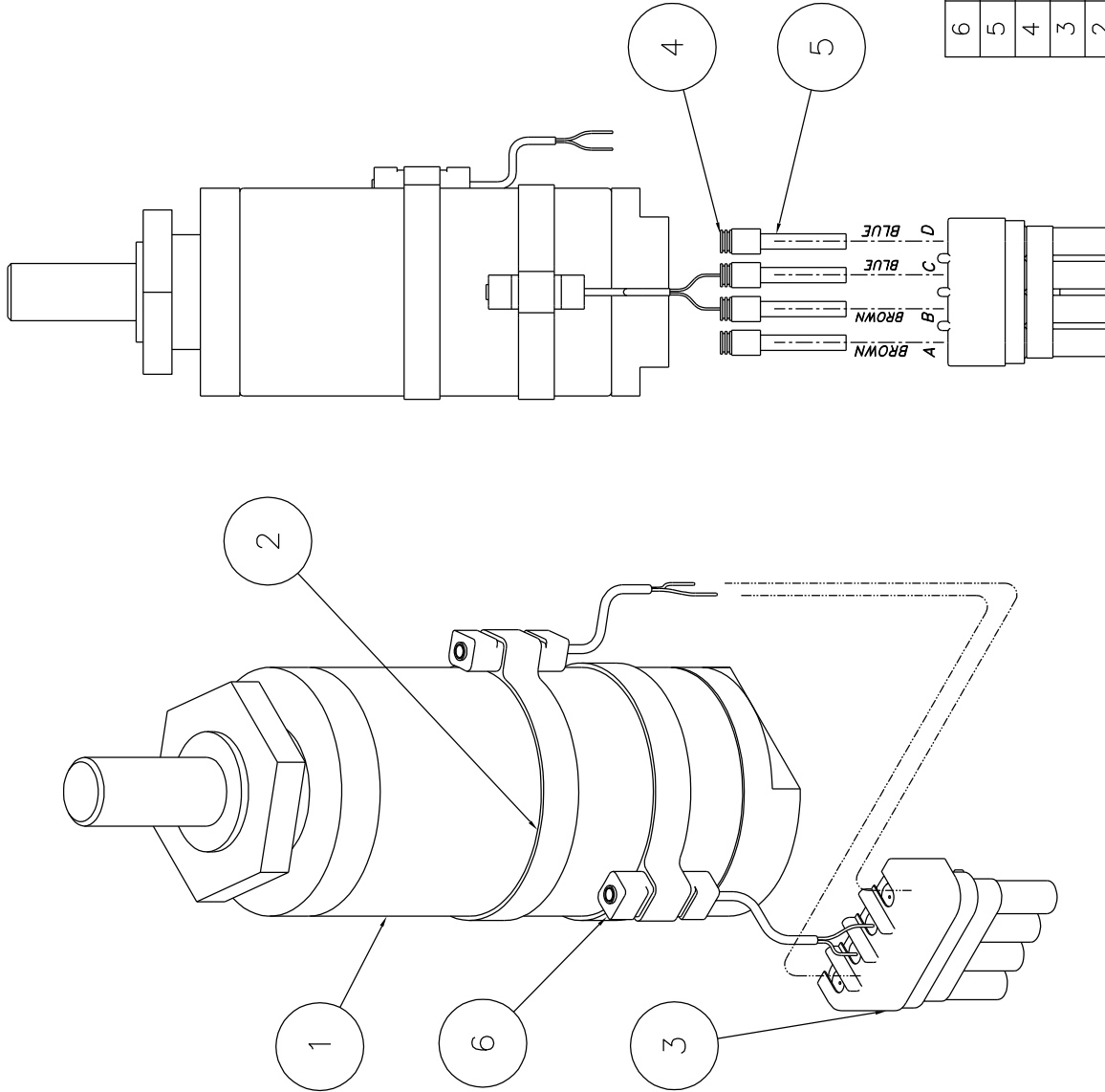
NOTICE OF CONFIDENTIAL INFORMATION

INFORMATION CONTAINED HEREIN IS CONFIDENTIAL AND PROPERTY OF MOHAWK RESOURCES LTD. WHERE DRAWING IS FURNISHED TO OTHERS IT SHALL BE USED SOLELY FOR PURPOSES OF INSPECTION, INSTALLATION, OR MAINTENANCE. THE INFORMATION SHALL NOT BE USED OR DISCLOSED BY THE RECIPIENT FOR ANY OTHER PURPOSES WHATSOEVER.

C-SIZE

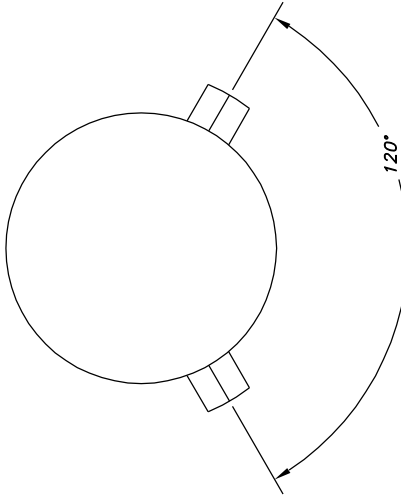
NOTES:

1. DO NOT OVERTIGHTEN CLAMPS ON REED SWITCHES! (SNUG ONLY)
2. POSITION SWITCHES ON CYLINDER USING BATTERY MODULE.



TOP VIEW

ORIENT REED SWITCHES AS SHOWN



ITEM	NAME	DESCRIPTION	QTY
6	601-165-036	Reed Switch	2
5	601-165-042	Female Terminal	4
4	601-165-048	Cable Seal Red	4
3	601-165-044	4 Contact Tower	1
2	601-200-002	Clamp, Reed Switch, 1 3/4 Dia	2
1	601-200-001	Air Cylinder, 1 3/4 Dia x 1" Stroke	1

Parts List

SCALE	DRAWN	MOHAWK RESOURCES LTD.
NTS	CDH	
CHECKED	APPROVED	TITLE
DATE	WEIGHT	L/R Air Cylinder Assembly
10/16/02	.75	FROM
		r/g
NEXT ASSEMBLY		DRAWING NUMBER
		P-200-A-002

SCALE	FILE NAME
P-	P-200-A-002.dwg
TOLERANCES:	
ANGULAR	± .030
FRACTIONAL	± .030
DECIMAL	± .005
DXXX	
0.XXX	

NOTICE OF CONFIDENTIAL INFORMATION

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-70T1 CODE 5.3 FLUX CORE WIRE ONLY.

INFORMATION CONTAINED HEREIN IS CONFIDENTIAL AND PROPERTY OF MOHAWK RESOURCES LTD. IT SHALL BE USED SOLELY FOR PURPOSES OF INSPECTION, INSTALLATION, OR MAINTENANCE. THE INFORMATION SHALL NOT BE USED OR DISCLOSED BY THE RECIPIENT FOR ANY OTHER PURPOSES WHATSOEVER.

C-SIZE

CAUTION



Lift to be used by trained operator only.

CAUTION



Authorized personnel only in lift area.

WARNING



Clear area if vehicle is in danger of falling.

WARNING



Position vehicle with center of gravity midway between adapters.

CAUTION



Use vehicle manufacturer's lift points.

CAUTION



Always use safety stands when removing or installing heavy components.

WARNING



Remain clear of lift when raising or lowering vehicle.

WARNING



Avoid excessive rocking of vehicle while on lift.

CAUTION



Use height extenders when necessary to ensure good contact.

CAUTION



Auxiliary adapters may reduce load capacity.

WARNING



Do not override self-closing lift controls.

WARNING



Keep feet clear of lift while lowering.

The messages and pictographs shown are generic in nature and are meant to generally represent hazards common to all automotive lifts regardless of specific style.

Funding for the development and validation of these labels was provided by the Automotive Lift Institute, PO Box 33116 Indianatic, FL 32903.

They are protected by copyright. Set of labels may be obtained from ALI or its member companies.

The messages and pictographs shown are generic in nature and are meant to generally represent hazards common to all automotive lifts regardless of specific style.

Funding for the development and validation of these labels was provided by the Automotive Lift Institute, PO Box 33116 Indianatic, FL 32903.

They are protected by copyright. Set of labels may be obtained from ALI or its member companies.

<p>SAFETY INSTRUCTIONS</p>  <p>Read operating and safety manuals before using lift.</p> <p>©</p>	<p>SAFETY INSTRUCTIONS</p>  <p>Proper maintenance and inspection is necessary for safe operation.</p> <p>©</p>
<p>SAFETY INSTRUCTIONS</p>  <p>Do not operate a damaged lift.</p> <p>©</p>	<p>The messages and pictographs shown are generic in nature and are meant to generally represent hazards common to all automotive lifts regardless of specific style</p> <p>Funding for the development and validation of these labels was provided by the Automotive Lift Institute, PO Box 33116 Indialantic, FL 32903</p> <p>They are protected by copyright Set of labels may be obtained from ALI or its member companies</p> <p>© 1992 by ALI, Inc. ALI/WL101e</p>

MOHAWK.

Because Quality Lasts Forever.



Model USL-6000

Full rise, space-saving, no-post, portable scissors lift, offers full under-car access.



Model A-7

The A-7 is a 7,000 lb. capacity asymmetric lift that allows full opening of all vehicle doors as well as total undercar/underdash access, thanks to Mohawk's unique "clear-floor" design. Low 4" arms accommodate all imports and low-riding sports cars. Includes both 3" and 6" truck adapters.

Model System I

The 9,000 lb. capacity System I, like all Mohawk lifts, features Mohawk's patented hydraulic equalization system with adjustable overhead (or optional underground) hydraulic lines. Offers low 3 1/2" swing arms and comes standard with truck adapters.



Model LMF-12, TP-15, TP-18, TP-26 & TP-30

These 12,000 to 30,000 lb. capacity models are the ideal heavy-duty lifts for up to Class VI trucks. Mohawk's unique "clear floor" design makes these the perfect lifts for all fleet applications. Truck adapters are standard equipment.



Model LMF-12



Model TR-50

TR-Series Ramp Style Lifts

Standard models from 25,000 up to 125,000 lbs. for total under-vehicle access.

Ramp lengths from 20' to 50'. Completely operated by a single technician, and features fully interlocked, redundant safety systems.

MOHAWK



Mohawk Industrial Park • P.O. Box 110
Amsterdam, NY 12010

1-800-833-2006 or 518-842-1431

FAX 518-842-1289



www.mohawklifts.com