MOHAWK

MADE IN THE USA

PARALLELOGRAM

SURFACE & FLUSH STYLE PARALLEGRAM VEHICLE LIFT MANUAL

- ☑ INSTALLATION
- ☑ OPERATION
- ☑ MAINTENANCE
- ☑ PARTS

THANK YOU
FOR SENDING IN YOUR
WARRANTY REGISTRATION
CARD

MOHAWK SERVICE
DEPARTMENT

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.doc
Rev Date 5/19/2003
Part #601-800-0XX

IMPORTANT SAFETY INSTRUCTIONS

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

1. Read all instructions.

2. Care must be taken as burns can occur from touching hot parts.

3. 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.

3. Do not let cord or hoses 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 recommended attachments.

11. ALWAYS WEAR SAFETY GLASSES. Everyday eyeglasses only have impact resistant lenses, they are NOT safety glasses.

SAVE THESE INSTRUCTIONS

Rev (9/21/01)

HAVE A QUESTION?

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

Distributor Place Card Here

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: 4/14/2003

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. 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.

5-YEAR WARRANTY:

THIS WARRANTY IS APPLICABLE TO THE FOLLOWING MOHAWK LIFTS ONLY: A-7, SYSTEM IA, SYSTEM IA-10, TOMAHAWK-9000, LMF-12, TP-15, TP-18, TP-20, TP-26, TP-30 AND STANDARD OPTIONS.

3-YEAR WARRANTY:

THIS WARRANTY IS APPLICABLE TO THE FOLLOWING MOHAWK LIFTS ONLY: TSL-7, PL-6000, TR-19, TR-25, FL-25, TR-33, TR-35, TR-40, TR-50, TR-60, TR-75, TR-110, MP-SERIES AND RP-SERIES MOBILE COLUMN LIFTS, SL-SERIES SCISSOR LIFTS, FP-SERIES LIGHT DUTY FOUR POST LIFTS, TL-SERIES LIFTS AND STANDARD OPTIONS.

2-YEAR WARRANTY:

THIS WARRANTY IS APPLICABLE TO THE FOLLOWING MOHAWK LIFTS ONLY: PARALLELOGRAM SERIES AND USL-6000 AND STANDARD OPTIONS.

1-YEAR WARRANTY:

THIS WARRANTY IS APPLICABLE TO THE FOLLOWING MOHAWK LIFTS ONLY: HR-6, TD-1000, CT-1000 AND STANDARD OPTIONS.

STRUCTURAL COMPONENTS:

ALL STRUCTURAL AND MECHANICAL COMPONENTS OF THIS UNIT ARE GUARANTEED FOR THE ABOVE STATED TIME FRAME, SPECIFIC TO MODEL, FROM THE DATE OF INVOICE, AGAINST DEFECTS IN WORKMANSHIP AND/OR MATERIALS WHEN LIFT IS INSTALLED AND USED ACCORDING TO SPECIFICATIONS.
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 I, LMF-12, TP-15, TP-18, TP-20, TP-26, TP-30, MP-SERIES AND TL-SERIES LIFTS.

POWER UNIT:

ALL POWER UNIT COMPONENTS (MOTOR, PUMP AND RESERVOIR) ARE GUARANTEED FOR THE ABOVE STATED TIME FRAME, SPECIFIC TO MODEL, 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 ELECTRICAL COMPONENTS (EXCLUDING MOTOR) 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.

PNEUMATIC (AIR) COMPONENTS:

ALL PNEUMATIC (AIR) COMPONENTS (I.E. AIR CYLINDERS AND POPPET AIR VALVES) 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 "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.

THIS WARRANTY SUPERSEDES ALL OTHER WARRANTY POLICIES PREVIOUSLY STATED AND IN ALL OTHER MOHAWK PRODUCT SPECIFIC LITERATURE.

CONTENTS

TEXT

FIGURES / DIAGRAMS

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.**

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 MIN.	DRILL SIZE MAX.	TORQUE (N/A)
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.**

PARALLELOGRAM PACKING LIST
*** ALSO SEE PACKING DRAWINGS IN END OF MANUAL ***

ORDER NUMBER	PART NUMBER	PART DESCRIPTION	QTY.
		PLATFORM ASSEMBLY	2
		RAMP WELDMENT	2
		WHEEL STOP WELDMENT	2
		FLIP PLATE	2
		FLIP PLATE SUPPORT	2
		CONTROL CONSOLE	1
		FLOOR SERVICE COVER	2
		FLOOR SERVICE COVER BRACKET	2
		PARTS BOX	1
		PARTS BOX CONTENTS	

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 CONNNECTIONS
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 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.

-- 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 MANEVERABILITY 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.

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.

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 IF 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 KNOW (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

- 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.

TO LOWER

- 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.

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.
INCORRRECT 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 SYCHRONIZED.
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 POSTION 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 POSTION 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	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	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	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	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	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	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	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	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.

SERVICE CHART

MODEL: PARALLELOGRAM
SERIAL NUMBER: _____
DATE OF INSTALLATION: _____

DATE	PART REPLACED / SERVICED	SERVICE COMPANY	SERVICED BY

MAINTENANCE CHART

DATE	MAINTENANCE PERFORMED	SERVICE COMPANY	SERVICED BY

MOHAWK

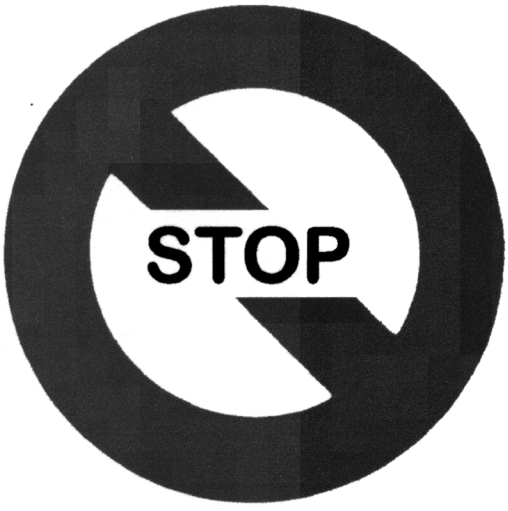
PARALLELOGRAM

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

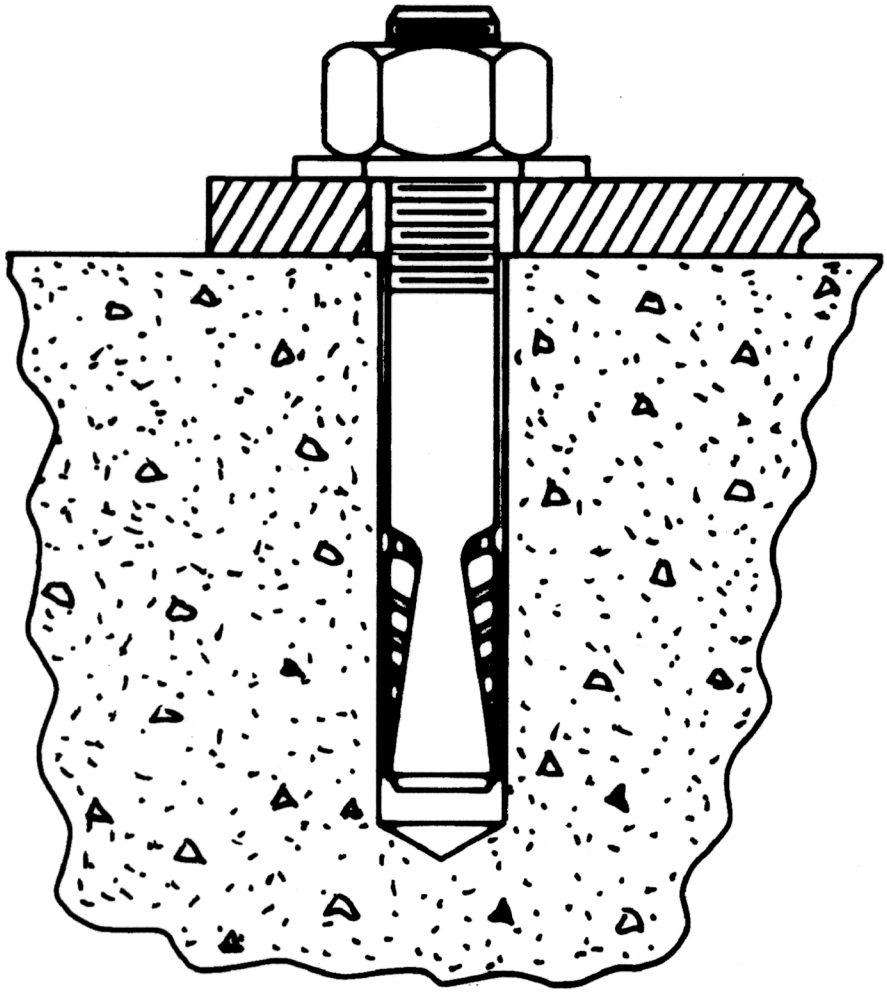
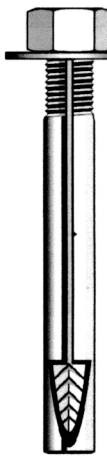


Figure 1



The Original wej-it® Wedge Anchors

Key Features/Benefits

- **Time-Tested, Pr ven 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.

USA ENGINEERED & MANUFACTURED

Specifications, Approvals and Listings

Type	
Zinc Plating	ASTM B-633, Type III, SCI
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

	Limestone Aggregate			Unreinforced Stone Aggregate oncrete Zin Plated arbon Steel							Unreinforced Lightweight (Idealite)		
Anchor & Hole Size	Embed-ment (in)	2000 psi Tension (lbs)	Shear (lbs)	Embed-ment (in)	3000 psi Tension (lbs)	Shear (lbs)	5000 psi Tension (lbs)	Shear (lbs)	7000 psi Tension (lbs)	Shear (lbs)	Embed-ment (in)	5000 psi Tension (lbs)	Shear (lbs)
1/4	1 1/8	1132	1211	1 1/8	1320	1751	1760	2316	2464	2494	1 1/2	1861	1947
1/4	1 3/4	1256	1211	1 1/2	1856	1751	2473	2316	3462	2494	•	•	•
5/16	1 1/4	1308	1210	1 1/4	2057	1839	2742	2530	3939	3439	1 1/2	2493	3064
5/16	2	1181	1210	1 3/4	2389	1839	3185	2530	4459	3439	•	•	•
3/8	1 1/4	994	1223	1 1/2	2876	4286	3834	5213	5368	5658	1 3/4	3125	4289
3/8	4	1728	1223	4	3488	4286	4650	5213	6510	5658	•	•	•
1/2	1 3/4	1542	3009	2 1/4	3473	7138	5789	10748	8105	11550	2 1/4	4778	9833
1/2	6	2695	3009	5	4809	7138	8015	10748	11221	11550	•	•	•
5/8	•	•	•	3 1/2	7582	10719	12636	15583	17690	16700	2 1/2	6455	12500
5/8	•	•	•	4 3/4	9179	10719	15299	15583	21419	16700	•	•	•
3/4	•	•	•	3	11579	15537	19299	21000	27019	23103	3 1/2	17293	19050
3/4	•	•	•	7	15444	15537	25740	21000	36036	23103	•	•	•
7/8	•	•	•	4 1/2	15266	•	25444	25099	33622	28718	•	•	•
7/8	•	•	•	7	16992	•	28320	25099	39648	28718	•	•	•
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		

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

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.

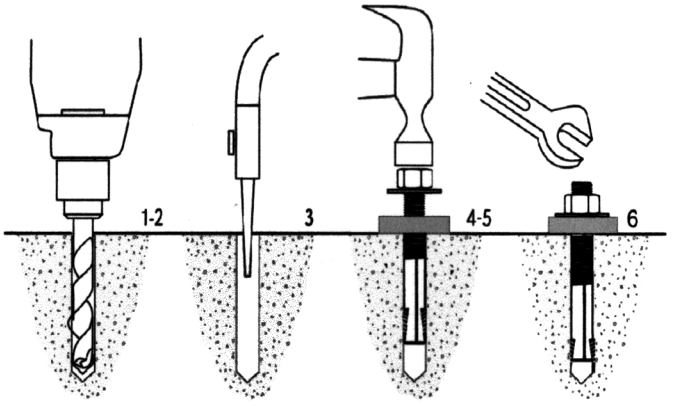
Figure 2

Order Information

Catalog Number	Anchor Diameter & Length (in)	Minimum Embed-ment (in)	Thread Length (in)	Quantity Box/ Carto
1413	1/4 x 1 3/4	1	1/2	100/600
1423	1/4 x 2 3/4	1	1/2	100/600
1430	1/4 x 3	1	1/2	100/600
5620	5/16 x 2	1 1/4	5/8	100/600
5630	5/16 x 3	1 1/4	5/8	100/600
3820	3/8 x 2	1 1/2	3/4	100/600
3823	3/8 x 2 3/4	1 1/2	3/4	100/600
3832	3/8 x 3 1/2	1 1/2	3/4	50/300
3850	3/8 x 5	1 1/2	3/4	50/300
3860	3/8 x 6	1 1/2	3/4	50/300
1223	1/2 x 2 3/4	2	1	50/300
1232	1/2 x 3 1/2	2	1	50/300
1250	1/2 x 5	2	1	25/150
1260	1/2 x 6	2	1	25/150
1270	1/2 x 7	2	1	25/150
5832	5/8 x 3 1/2	3	1 1/4	25/150
5842	5/8 x 4 1/2	3	1 1/4	25/150
5850	5/8 x 5	3	1 1/4	20/120
5860	5/8 x 6	3	1 1/4	15/90
5870	5/8 x 7	3	1 1/4	15/90
3440	3/4 x 4	3	1 1/2	18/108
3450	3/4 x 5	3	1 1/2	12/72
3460	3/4 x 6	3	1 1/2	12/72
3470	3/4 x 7	3	1 1/2	10/60
3482	3/4 x 8 1/2	3	1 1/2	10/30
3410	3/4 x 10	3	1 1/2	10/30
7880	7/8 x 8	4 1/2	1 3/4	10/30
7810	7/8 x 10	4 1/2	1 3/4	10/30
7812	7/8 x 12	4 1/2	1 3/4	5/15
1080	1 x 8	5 1/2	2	10/30
1010	1 x 10	5 1/2	2	5/15
1012	1 x 12	5 1/2	2	5/15

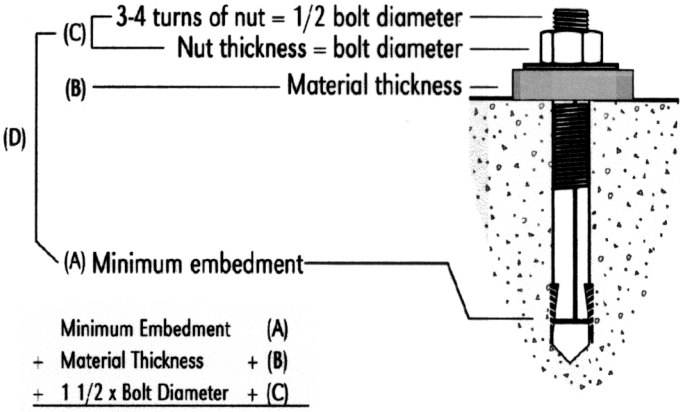
Installation Instructions - Mohawk Lifts

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 on to 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 ½ lb. hammer until the washer rests solidly against fixture.
6. Tighten the nut to 175 Ft. Lbs. maximum torque and not less than 3 full turns, but not more than 5 turns past the hand tight position. (Use of an Impact wrench for Installation of anchor is not recommended)



* 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.

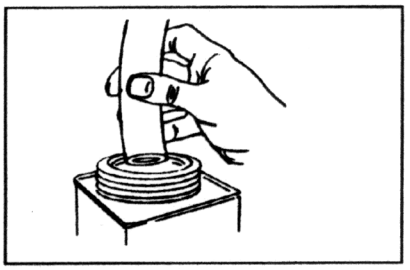
Length Selection Guide



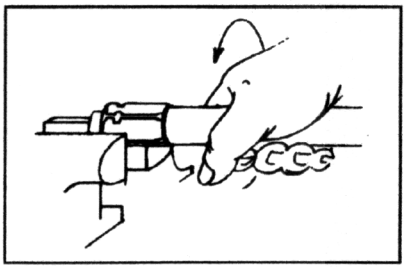
	Minimum Embedment	(A)
+	Material Thickness	+ (B)
+	1 1/2 x Bolt Diameter	+ (C)
=	Total Anchor Length	= (D)

Figure 3

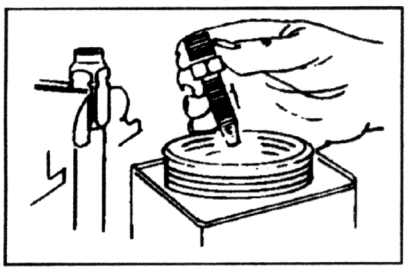
30 Series Hose Assembly Instructions



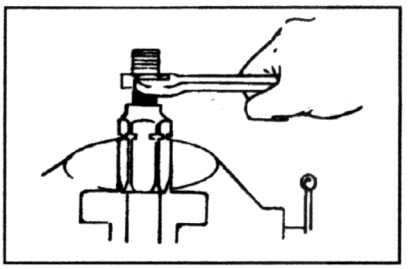
1. Identify Over All Length (OAL) of hose assembly and the Cut Off Allowance (COA) length of fitting(s) on hose ends by use of the fitting data table. Properly measure, mark and cut hose to desired length using fine tooth hacksaw or a cutoff machine. Dip hose end into Hoze-Oil or heavy oil.



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

Figure 4

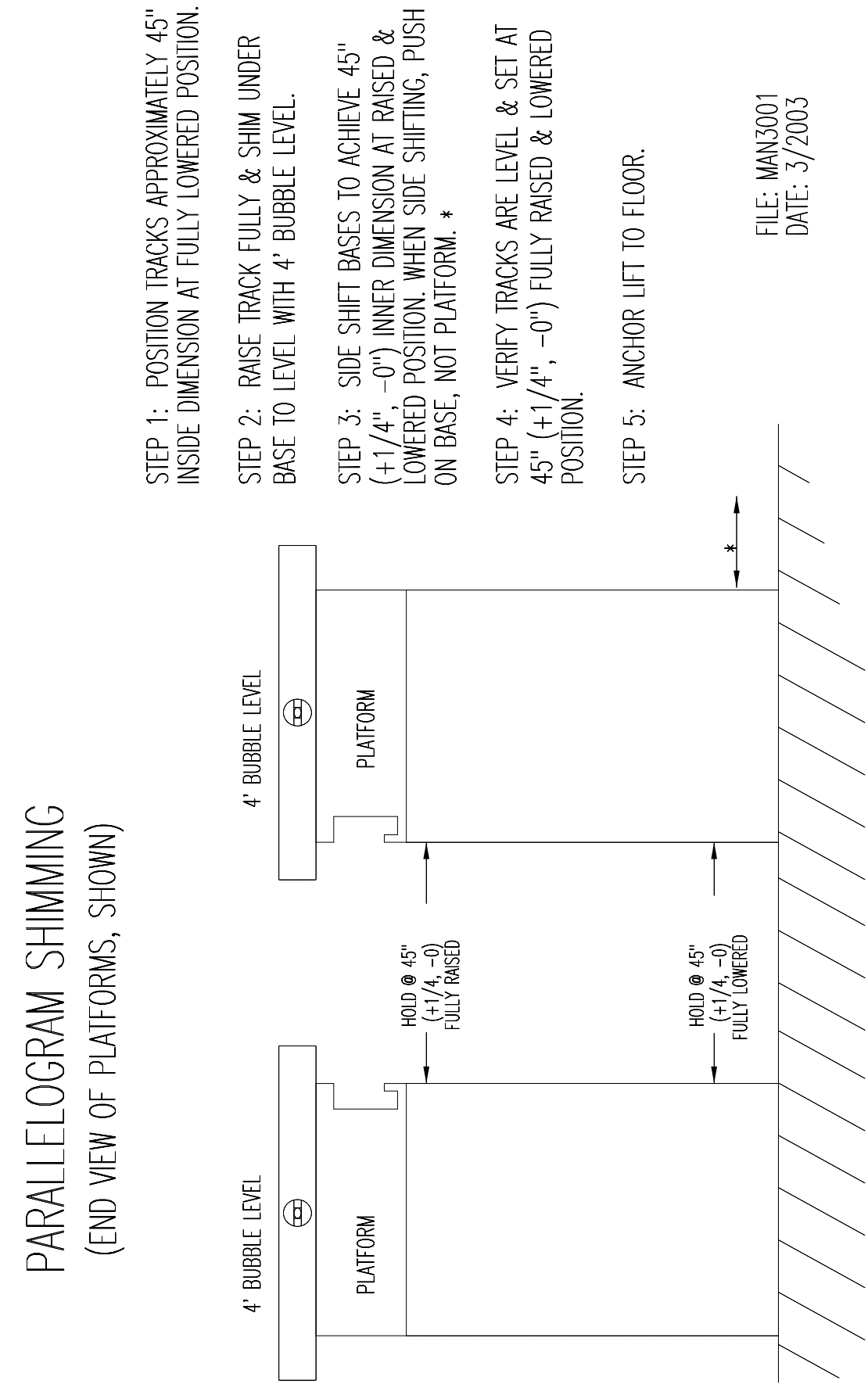

PARALLELOGRAM SHIMMING
(END VIEW OF PLATFORMS, SHOWN)
STEP 1: POSITION TRACKS APPROXIMATELY 45" INSIDE DIMENSION AT FULLY LOWERED POSITION.
STEP 2: RAISE TRACK FULLY & SHIM UNDER BASE TO LEVEL WITH 4' BUBBLE LEVEL.
STEP 3: SIDE SHIFT BASES TO ACHIEVE 45" (+1/4", -0") INNER DIMENSION AT RAISED & LOWERED 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
4' BUBBLE LEVEL
PLATFORM
HOLD @ 45" (+1/4, -0) FULLY RAISED
HOLD @ 45" (+1/4, -0) FULLY LOWERED
*

Figure 5

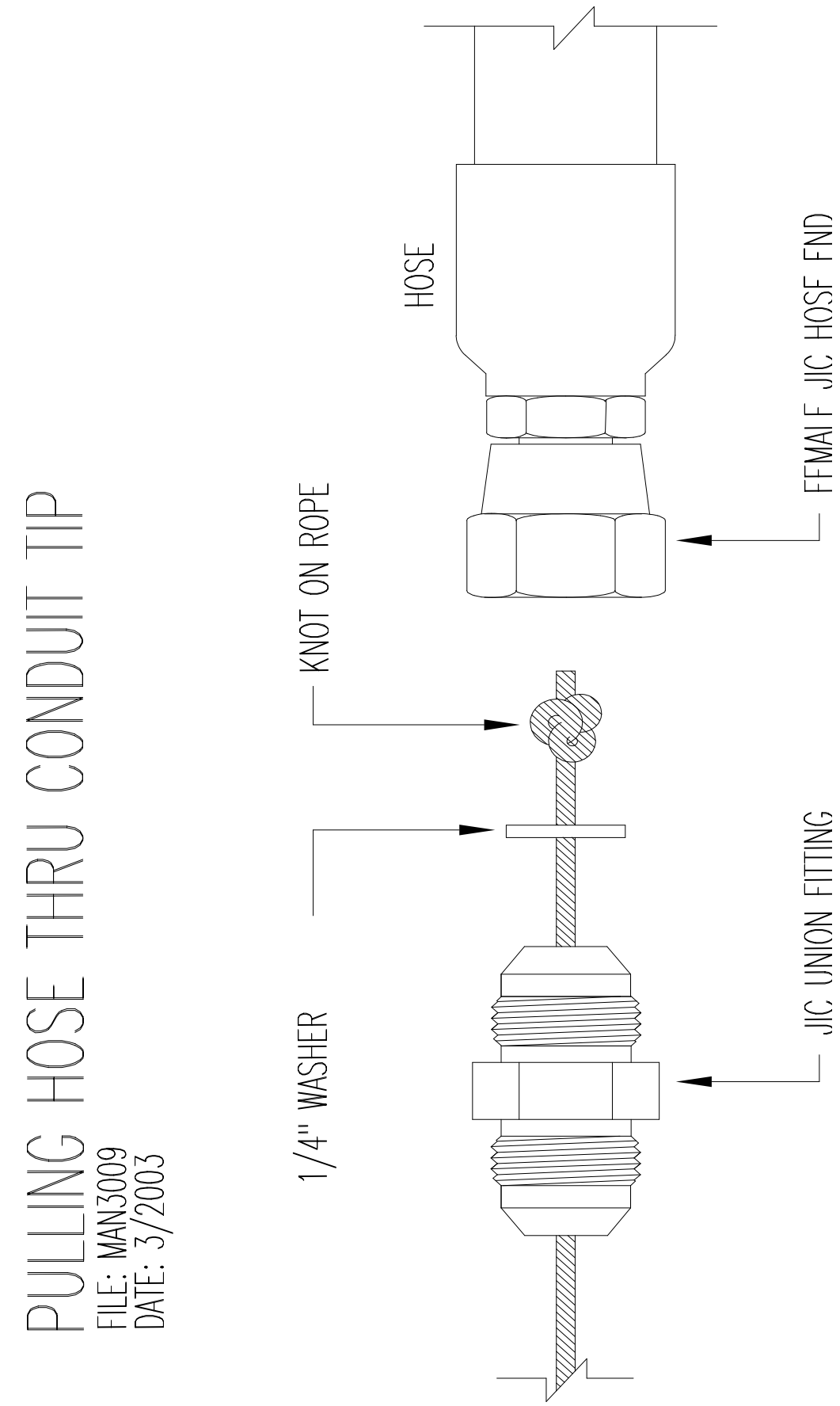

PULLING HOSE THRU CONDUIT TIP
FILE: MAN3009
DATE: 3/2003
HOSE
FFMAIF JIC HOSF FND
KNOT ON ROPE
1/4" WASHER
JIC UNION FITTING

Figure 6

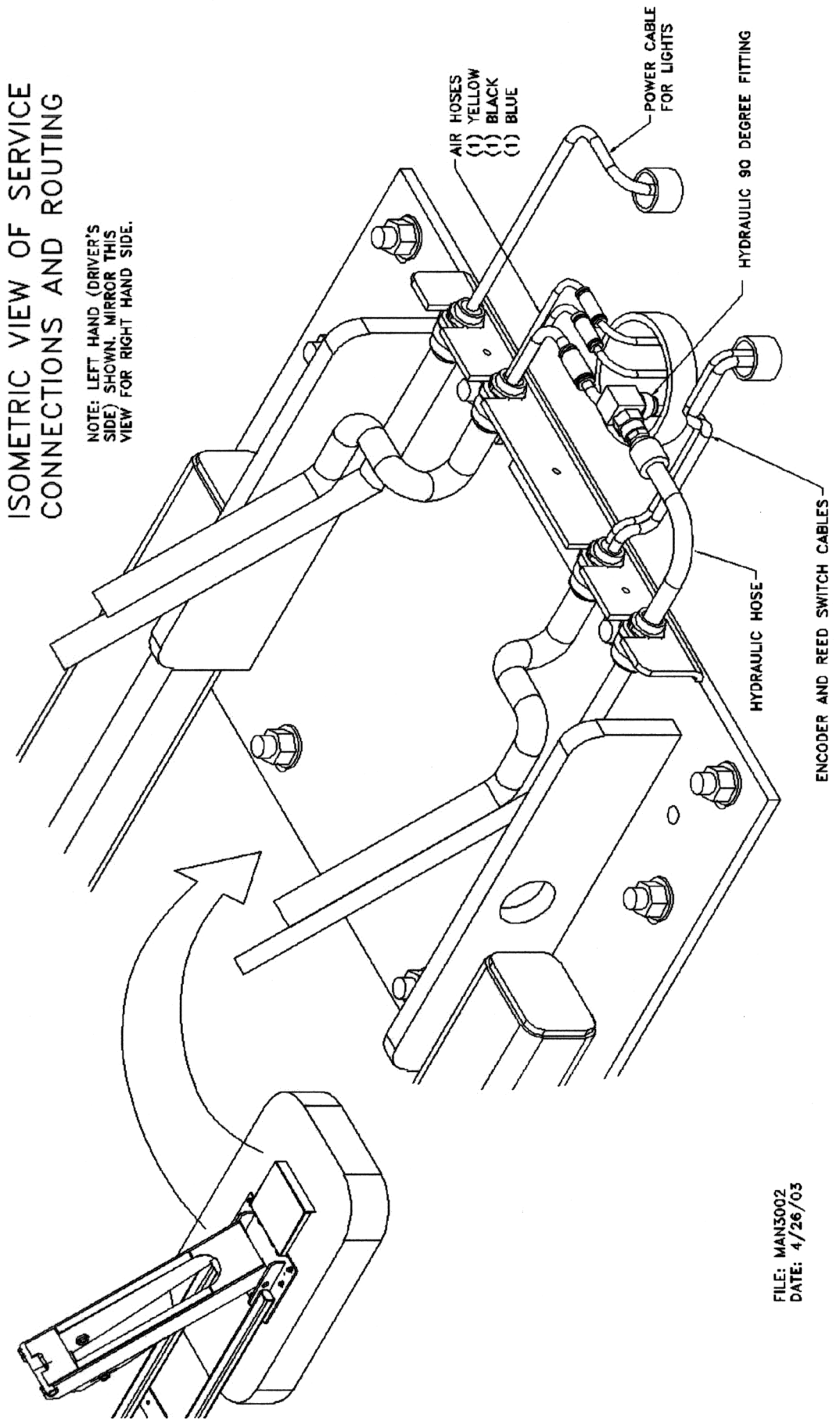

ISOMETRIC VIEW OF SERVICE CONNECTIONS AND ROUTING
NOTE: LEFT HAND (DRIVER'S SIDE) SHOWN. MIRROR THIS VIEW FOR RIGHT HAND SIDE.
AIR HOSES
(1) YELLOW
(1) BLACK
(1) BLUE
POWER CABLE FOR LIGHTS
HYDRAULIC 90 DEGREE FITTING
HYDRAULIC HOSE
ENCODER AND REED SWITCH CABLES
FILE: MAN3002
DATE: 4/26/03

Figure 7

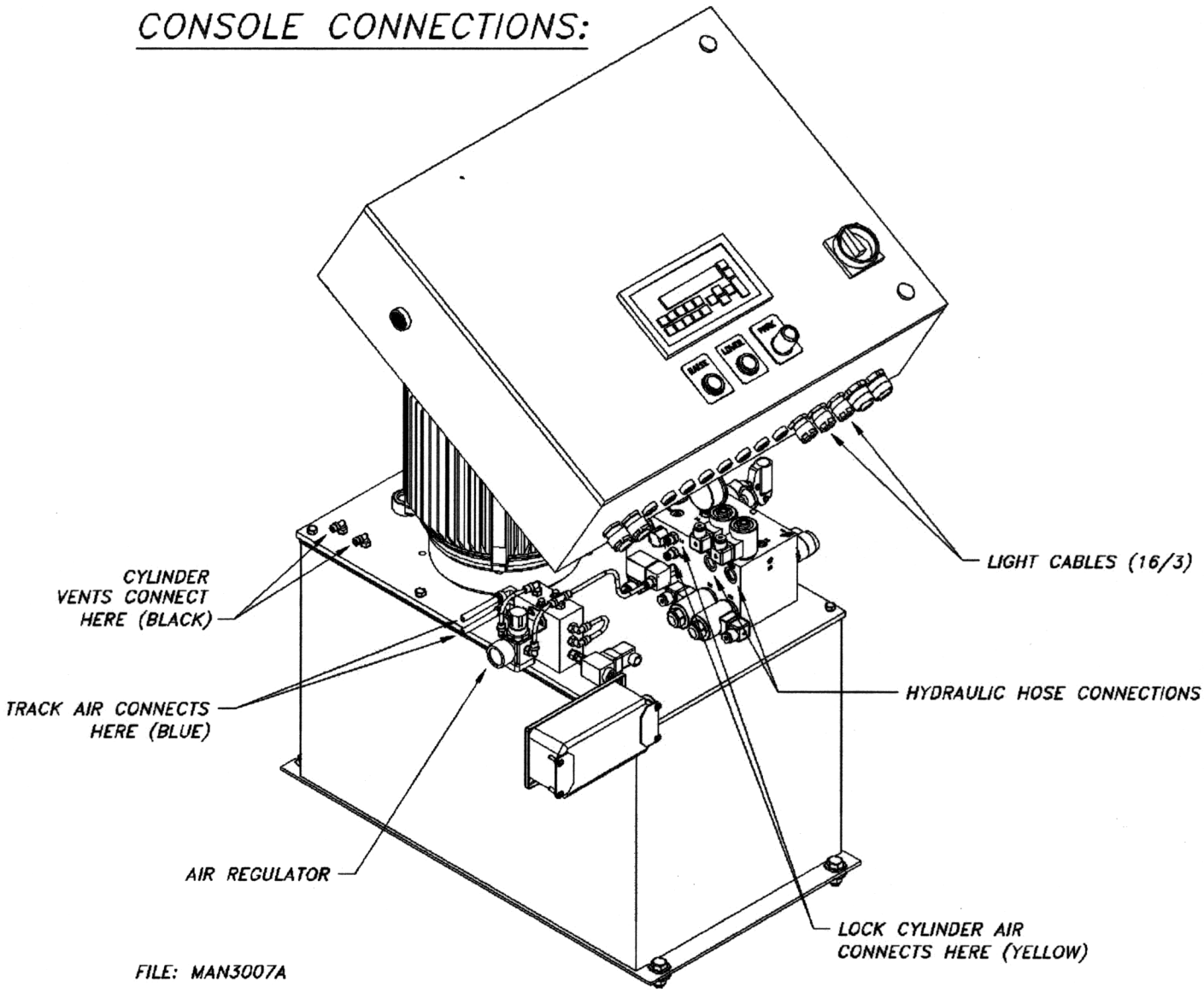

CONSOLE CONNECTIONS:
CYLINDER VENTS CONNECT HERE (BLACK)
TRACK AIR CONNECTS HERE (BLUE)
AIR REGULATOR
LIGHT CABLES (16/3)
HYDRAULIC HOSE CONNECTIONS
LOCK CYLINDER AIR CONNECTS HERE (YELLOW)
FILE: MAN3007A

Figure 8

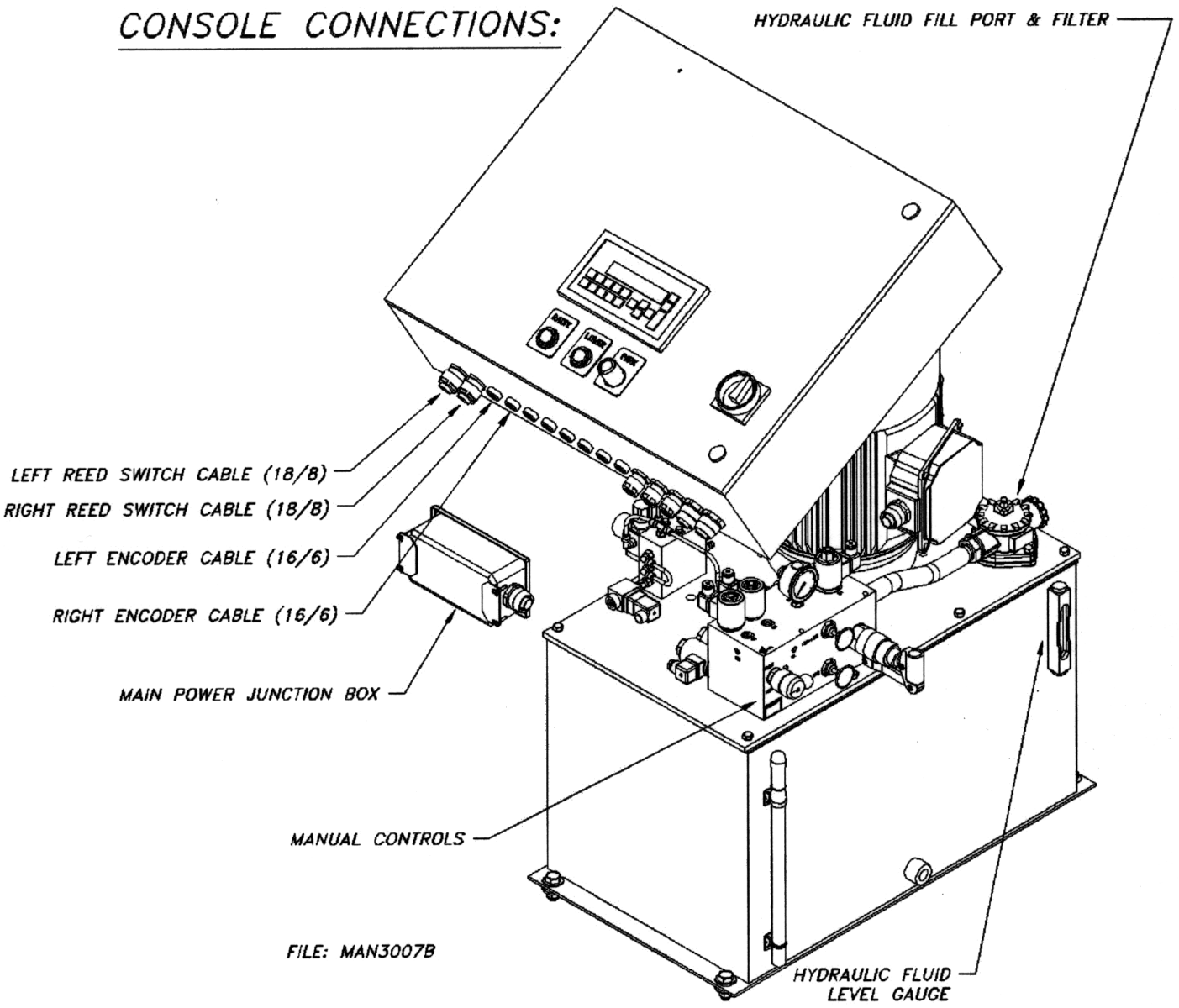

CONSOLE CONNECTIONS:
HYDRAULIC FLUID FILL PORT & FILTER
LEFT REED SWITCH CABLE (18/8)
RIGHT REED SWITCH CABLE (18/8)
LEFT ENCODER CABLE (16/6)
RIGHT ENCODER CABLE (16/6)
MAIN POWER JUNCTION BOX
MANUAL CONTROLS
FILE: MAN3007B
HYDRAULIC FLUID LEVEL GAUGE

Figure 9

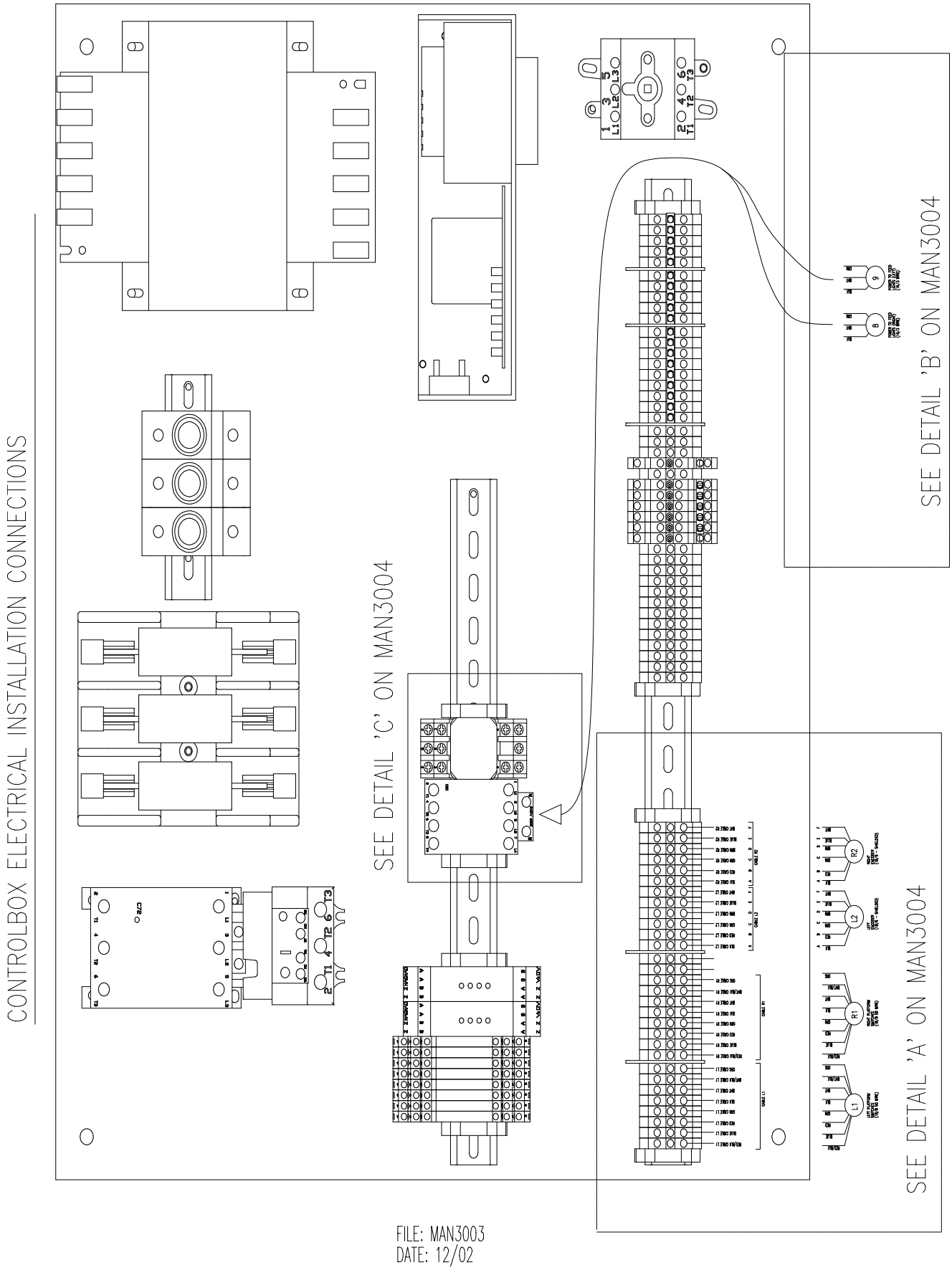

CONTROLBOX ELECTRICAL INSTALLATION CONNECTIONS
SEE DETAIL 'C' ON MAN3004
SEE DETAIL 'B' ON MAN3004
SEE DETAIL 'A' ON MAN3004
FILE: MAN3003
DATE: 12/02

Figure 10

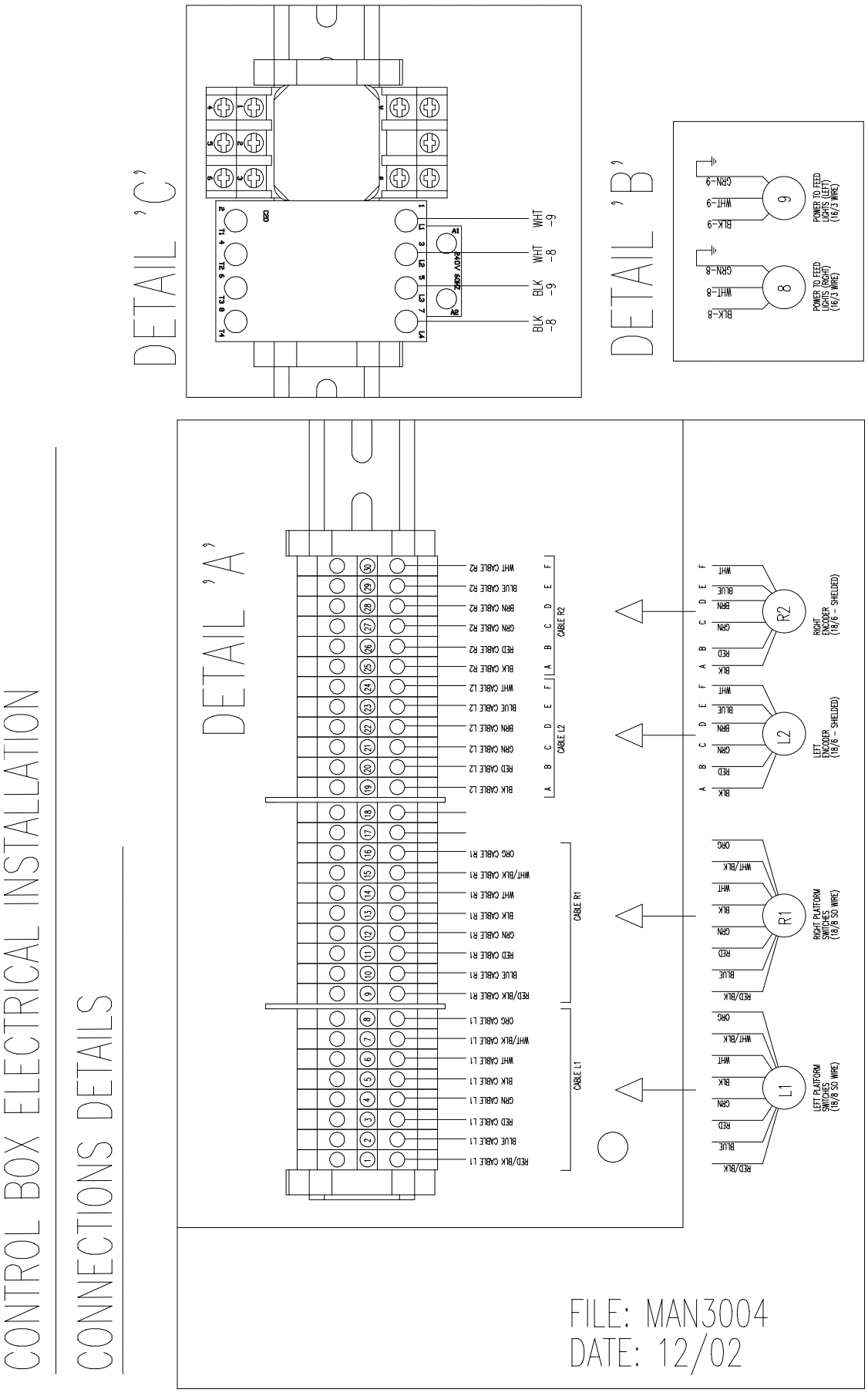

CONTROL BOX ELECTRICAL INSTALLATION
CONNECTIONS DETAILS
DETAIL 'A'
DETAIL 'B'
DETAIL 'C'
FILE: MAN3004
DATE: 12/02
CABLE L1
CABLE R1
CABLE L2
CABLE R2
LEFT PLATFORM SWITCHES (18/8 SO WIRE)
RIGHT PLATFORM SWITCHES (18/8 SO WIRE)
LEFT ENCODER (18/6 - SHIELDED)
RIGHT ENCODER (18/6 - SHIELDED)
POWER TO FEED LIGHTS (LEFT) (16/3 WIRE)
POWER TO FEED LIGHTS (RIGHT) (16/3 WIRE)
WHT
BLK
BLK -8
WHT -8
BLK -9
WHT -9

Figure 11

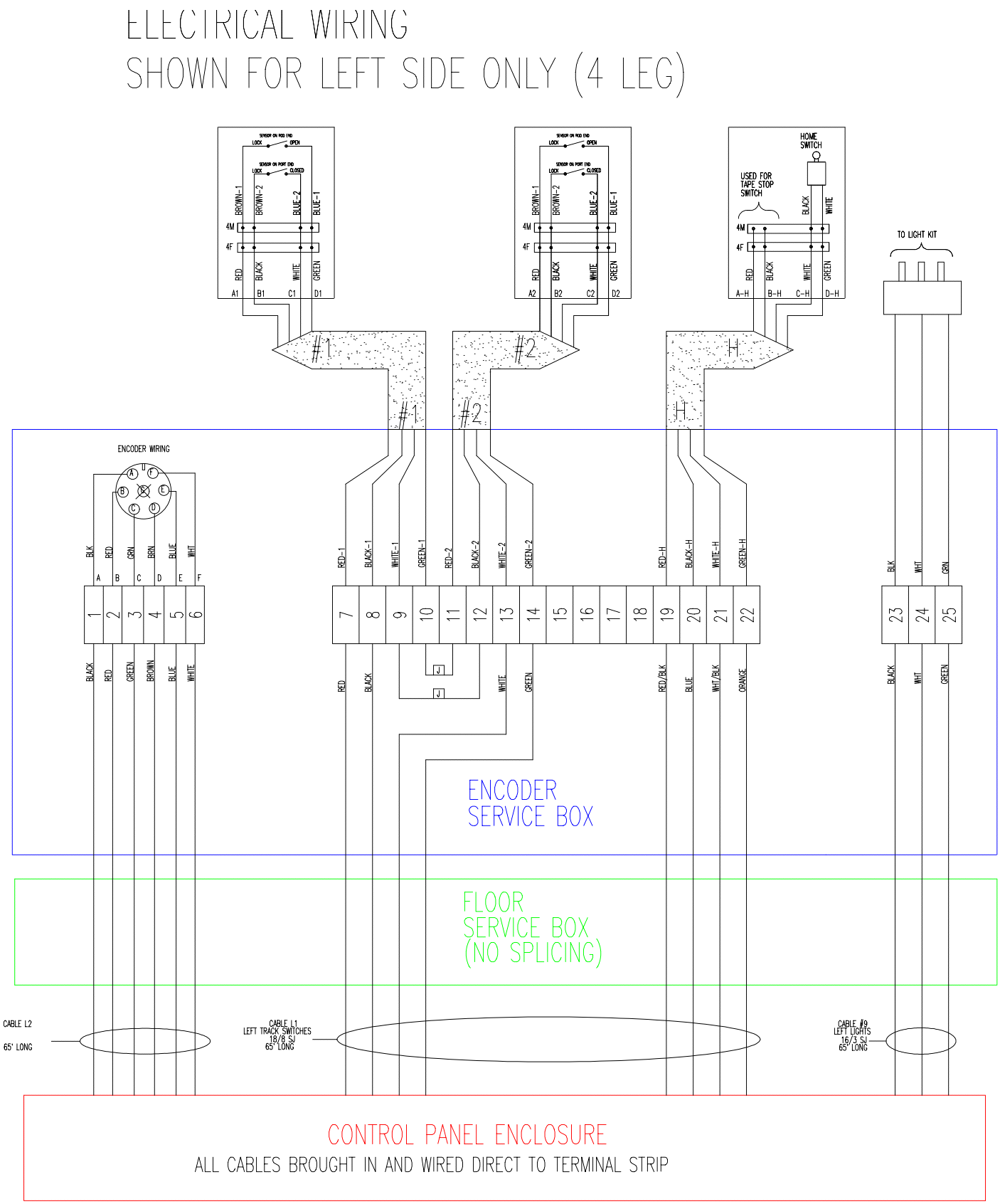

ELECTRICAL WIRING
SHOWN FOR LEFT SIDE ONLY (4 LEG)
HOME SWITCH
USED FOR TAPE STOP SWITCH
TO LIGHT KIT
ENCODER WIRING
ENCODER SERVICE BOX
FLOOR SERVICE BOX (NO SPLICING)
CABLE L2 65' LONG
CABLE L1 LEFT TRACK SWITCHES 18/8 SJ 65' LONG
CABLE #9 LEFT LIGHTS 16/3 SJ 65' LONG
CONTROL PANEL ENCLOSURE
ALL CABLES BROUGHT IN AND WIRED DIRECT TO TERMINAL STRIP

Figure 12

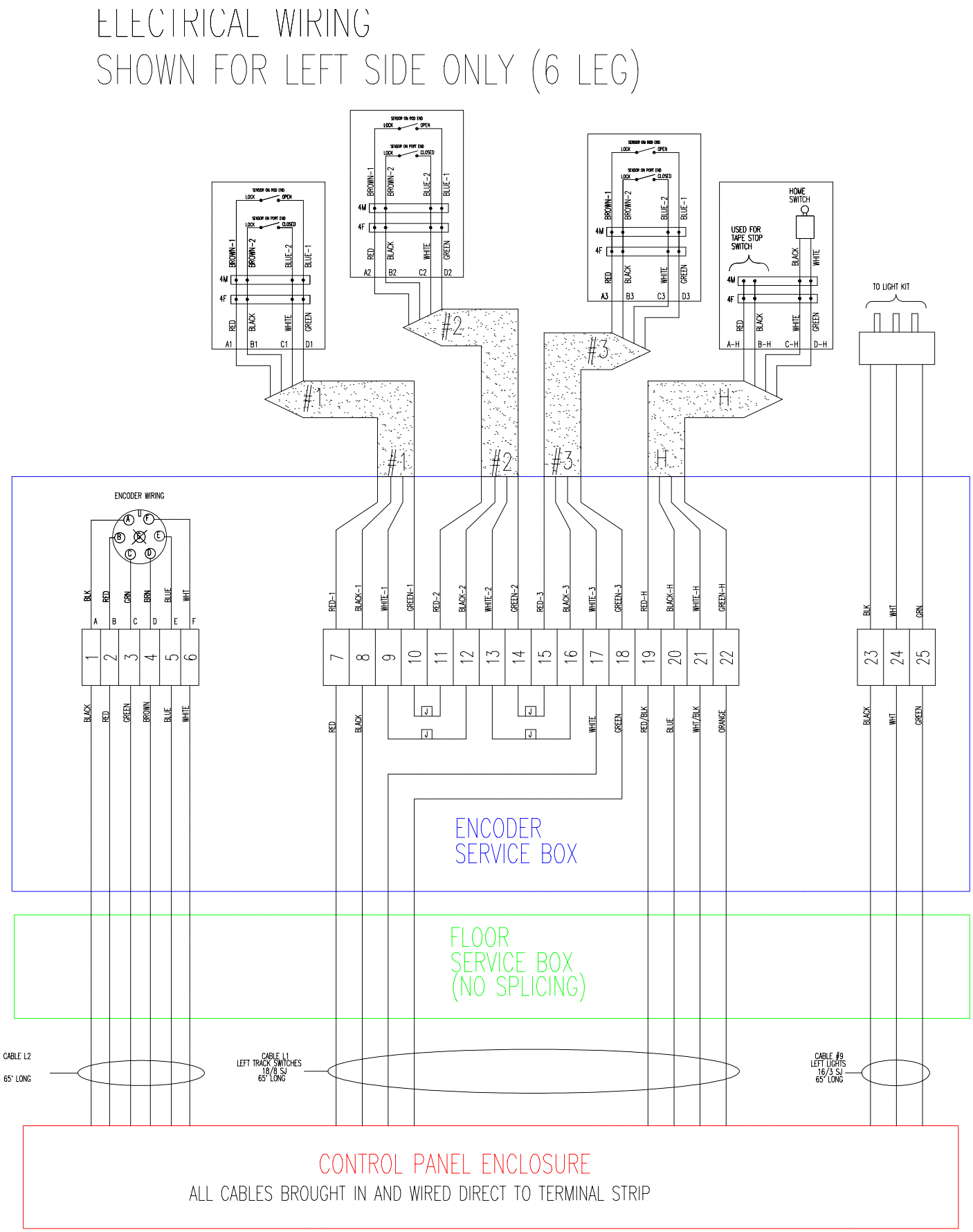
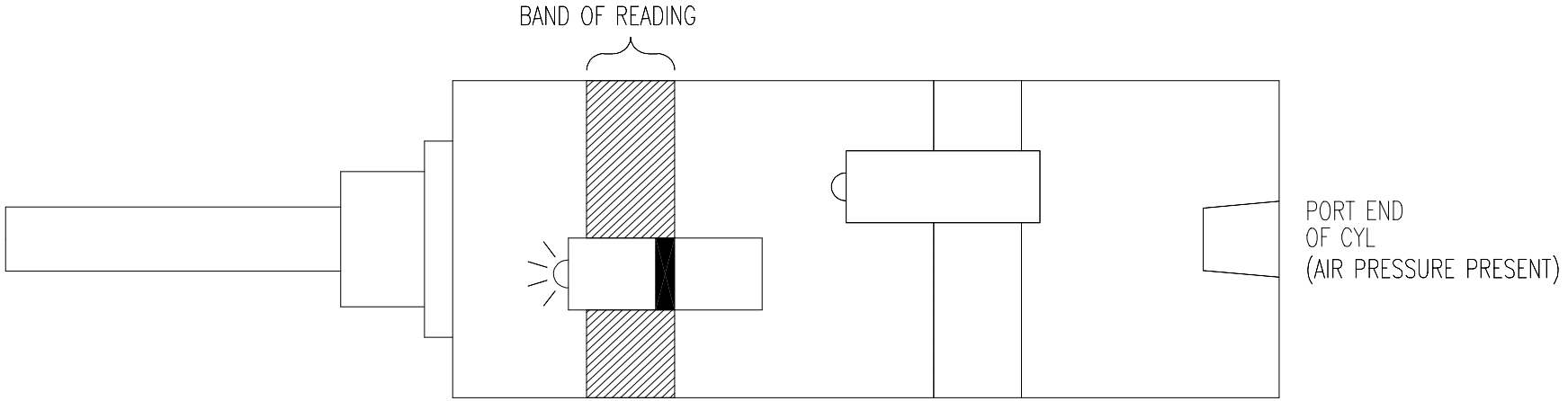
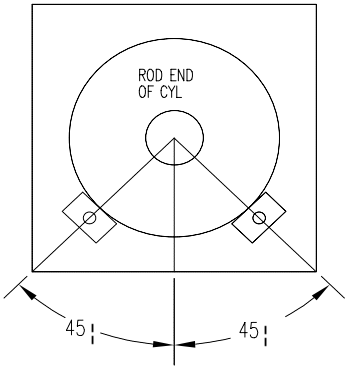

ELECTRICAL WIRING
SHOWN FOR LEFT SIDE ONLY (6 LEG)
ENCODER WIRING
ENCODER
SERVICE BOX
FLOOR
SERVICE BOX
(NO SPLICING)
CABLE L2
65' LONG
CABLE L1
LEFT TRACK SWITCHES
18/8 SJ
65' LONG
CABLE #9
LEFT LIGHTS
16/3 SJ
65' LONG
CONTROL PANEL ENCLOSURE
ALL CABLES BROUGHT IN AND WIRED DIRECT TO TERMINAL STRIP
HOME SWITCH
USED FOR TAPE STOP SWITCH
TO LIGHT KIT

Figure 13

REED SWITCH POSITIONING: DETECT LOCKS OPEN





FILE: MAN3005
DATE: 1/03

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)

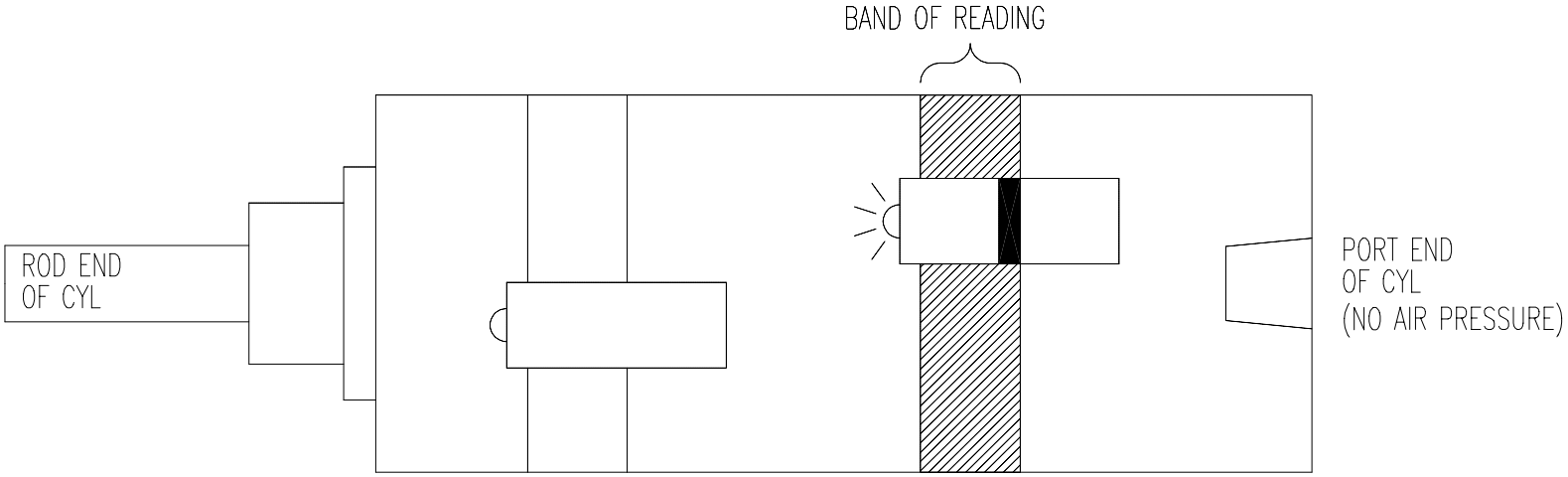
3. DISCONNECT PLUG FROM REED SWITCHES AND CONNECT SWITCHES TO BATTERY TEST MODULE.

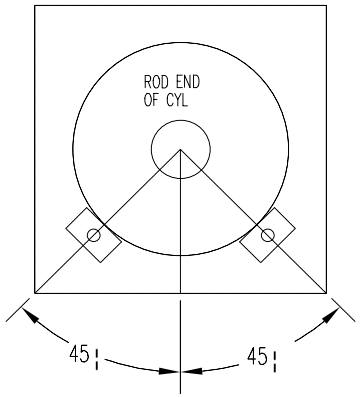
4. ADJUST POSITION OF REED SWITCH AT ROD END OF CYLINDER TO DETERMINE BAND OF READING (WHEN SWITCH LED LIGHTS). POSITION SWITCH TOWARD PORT END OF BAND. ENSURE REED SWITCHES ROTATED AWAY FROM EACH OTHER AS SHOWN IN DIAGRAM TO LEFT. SECURE CLAMP SNUG BUT DO NOT OVERTIGHTED CLAMP OR SWITCH MAY BECOME DAMAGED.

5. VERIFY ALL REED SWITCHES ADJUSTED PROPERLY BY LOWERING LIFT WITH LOWER BUTTON.

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 ~3/8 GAP BETWEEN MATING TEETH.

2. DISCONNECT PLUG FROM REED SWITCHES AND CONNECT SWITCHES TO BATTERY TEST MODULE.

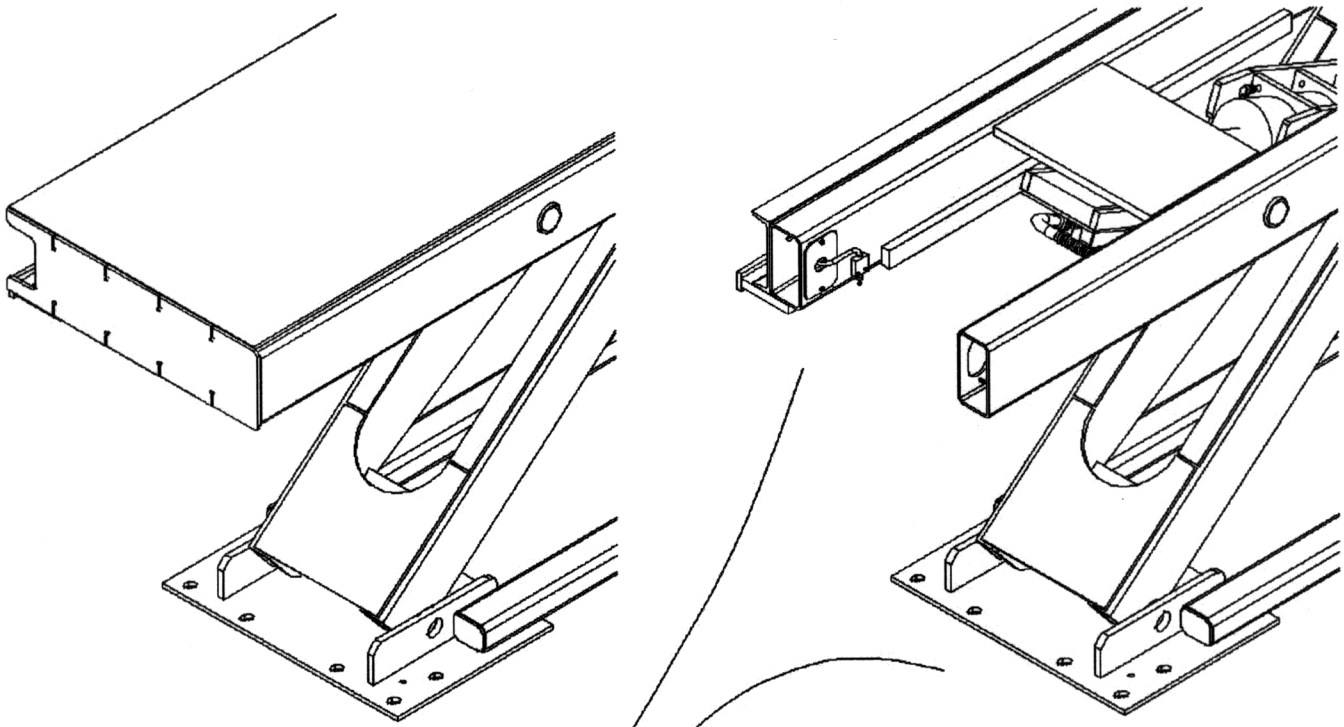
3. ADJUST POSITION OF REED SWITCH AT PORT END OF CYLINDER TO DETERMINE BAND OF READING (WHEN SWITCH LED LIGHTS). POSITION SWITCH TOWARD PORT END OF BAND. ENSURE REED SWITCHES ROTATED AWAY FROM EACH OTHER AS SHOWN IN DIAGRAM TO LEFT. SECURE CLAMP SNUG BUT DO NOT OVERTIGHTED CLAMP OR SWITCH MAY BECOME DAMAGED.

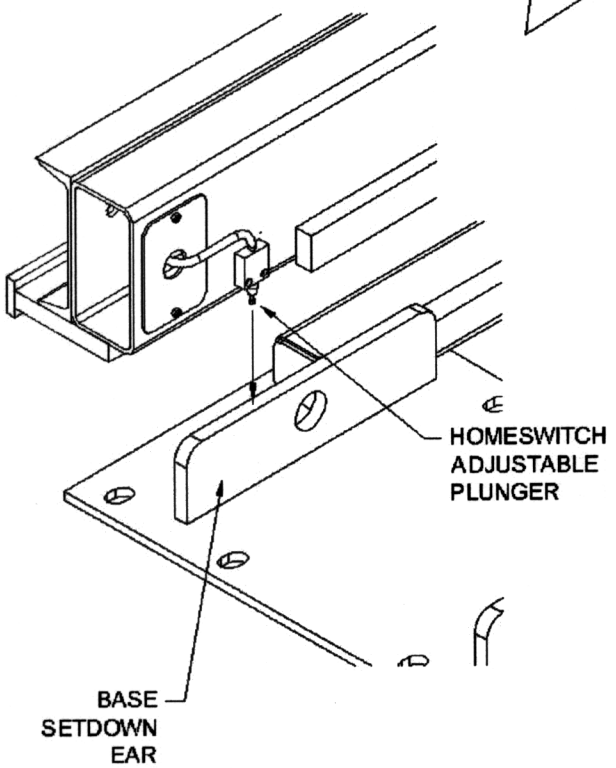
4. VERIFY THAT ALL REED SWITCHES ADJUSTED PROPERLY BY CYCLING LIFT UP AND DOWN AND ENSURING THAT PARK BUTTON ILLUMINATES AND PARKS LIFT ON LOCKS PROPERLY.

FILE: MAN3006
DATE: 1/03

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.

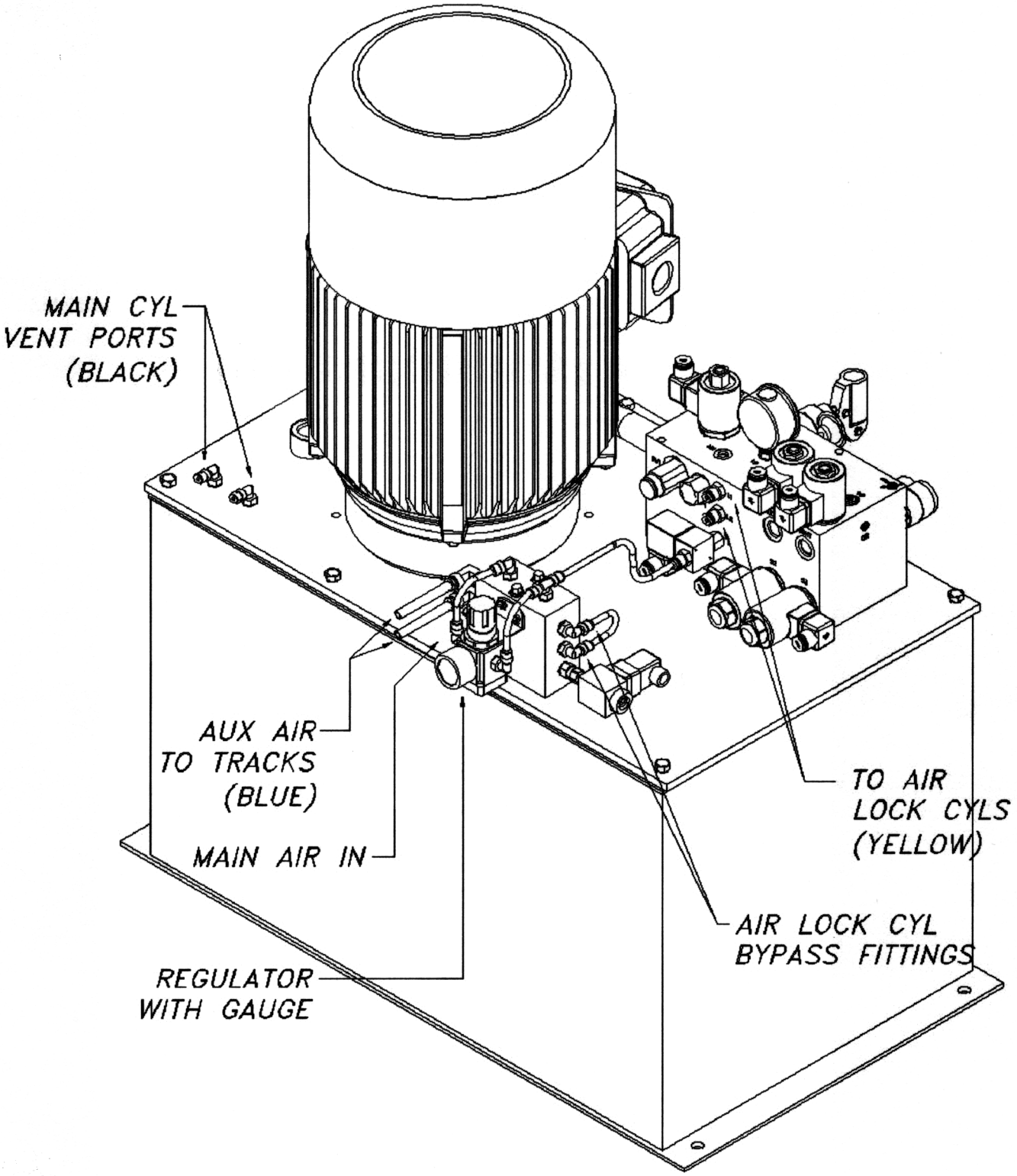
5. WHEN PLATFORM ZERO'S OUT ON CONTROL SCREEN, HOME SWITCH IS SET. BACK SCREW OUT OF HOME SWITCH ONE MORE COMPLETE TURN, THEN JAM WITH NUT.

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

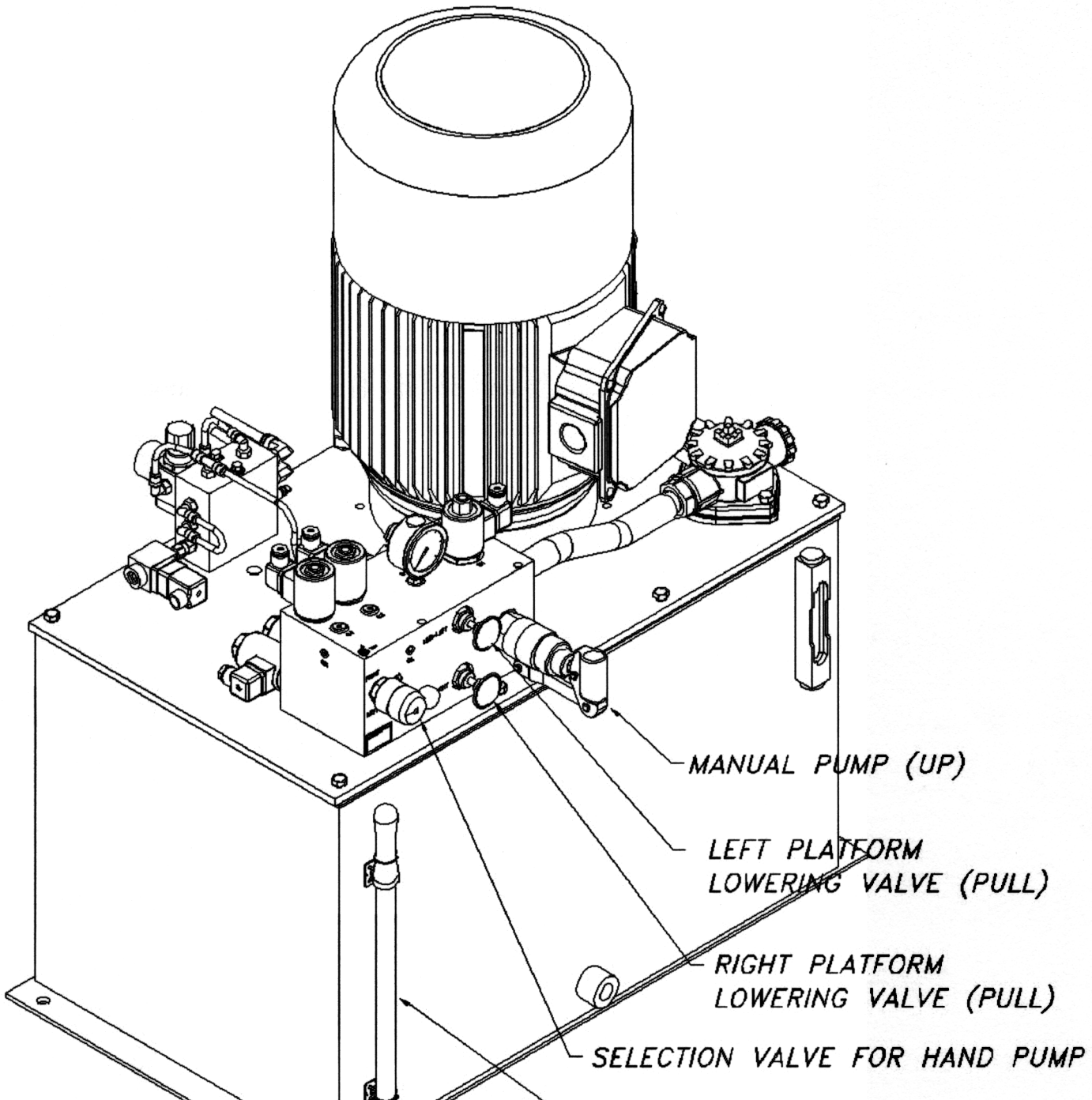
Figure 16



CONSOLE PNEUMATIC CONNECTIONS

FILE: MAN3008A

Figure 17



CONSOLE MANUAL OVERRIDE CONTROLS

FILE: MAN3008B

Figure 18

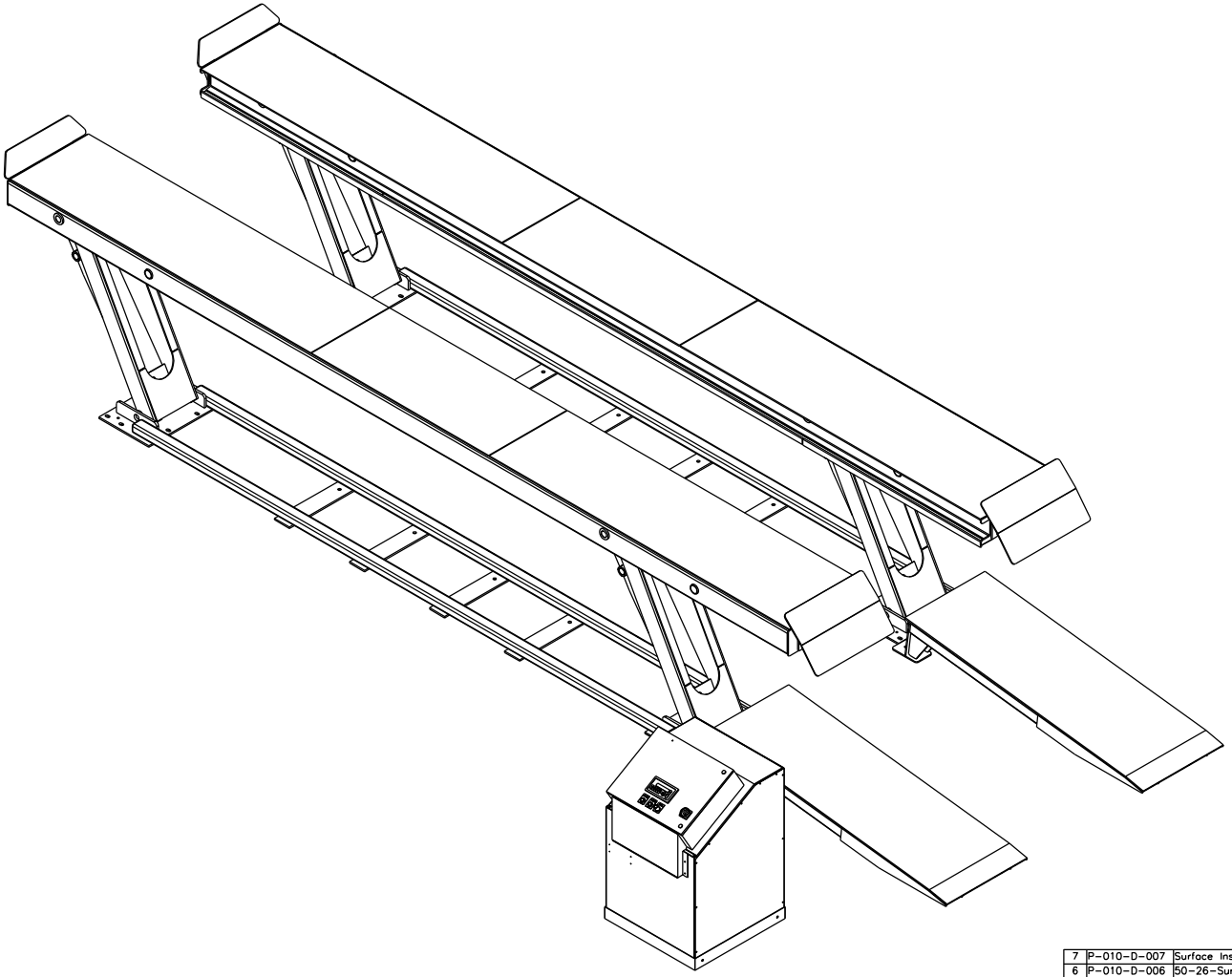
MOHAWK

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

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	Service Leg Conduit Details	1				0.000	0.00
4	P-010-D-004	Anchor Details & Shimming	1				0.000	0.00
3	P-010-D-003	Control Console & Stub-Up Details	1				0.000	0.00
2	P-010-D-002	Lift & Console Conduit 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

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.

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

FILE NAME P-010-A-001

P-010-

NEXT ASSEMBLY

SCALE 1/8

DRAWN dak

CHECKED

APPROVED

DATE 4/14/03

WEIGHT LB.

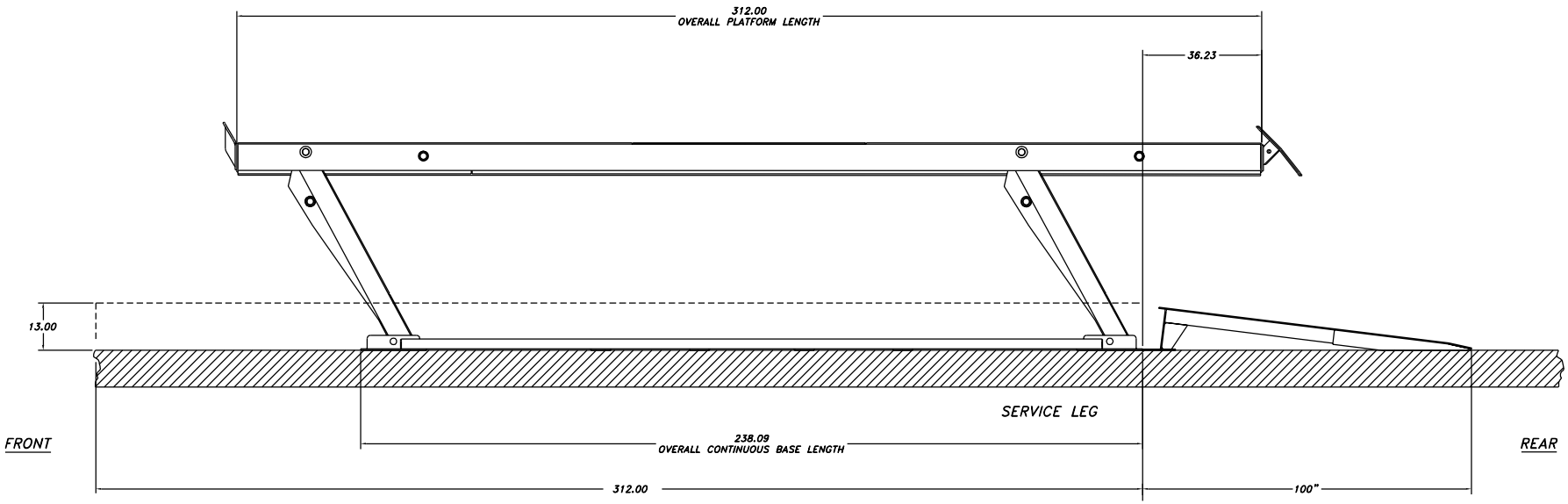
MOHAWK RESOURCES LTD.

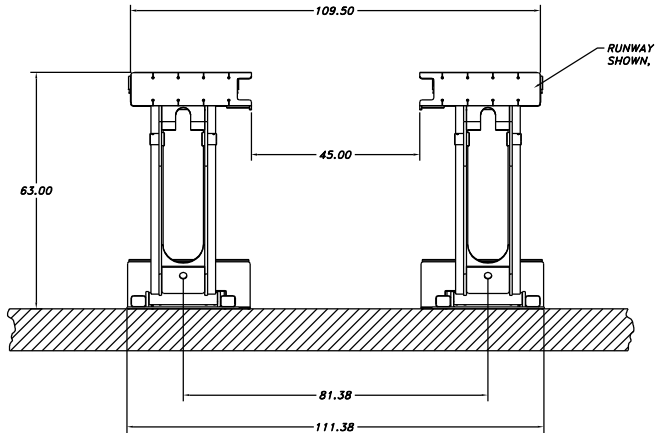
TITLE INSTALLATION REQUIREMENTS DRAWING, 50-26-SURFACE

FROM

DRAWING NUMBER P-010-A-001

D-SIZE





FRONT ELEVATION VIEW

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

D-SIZE

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.

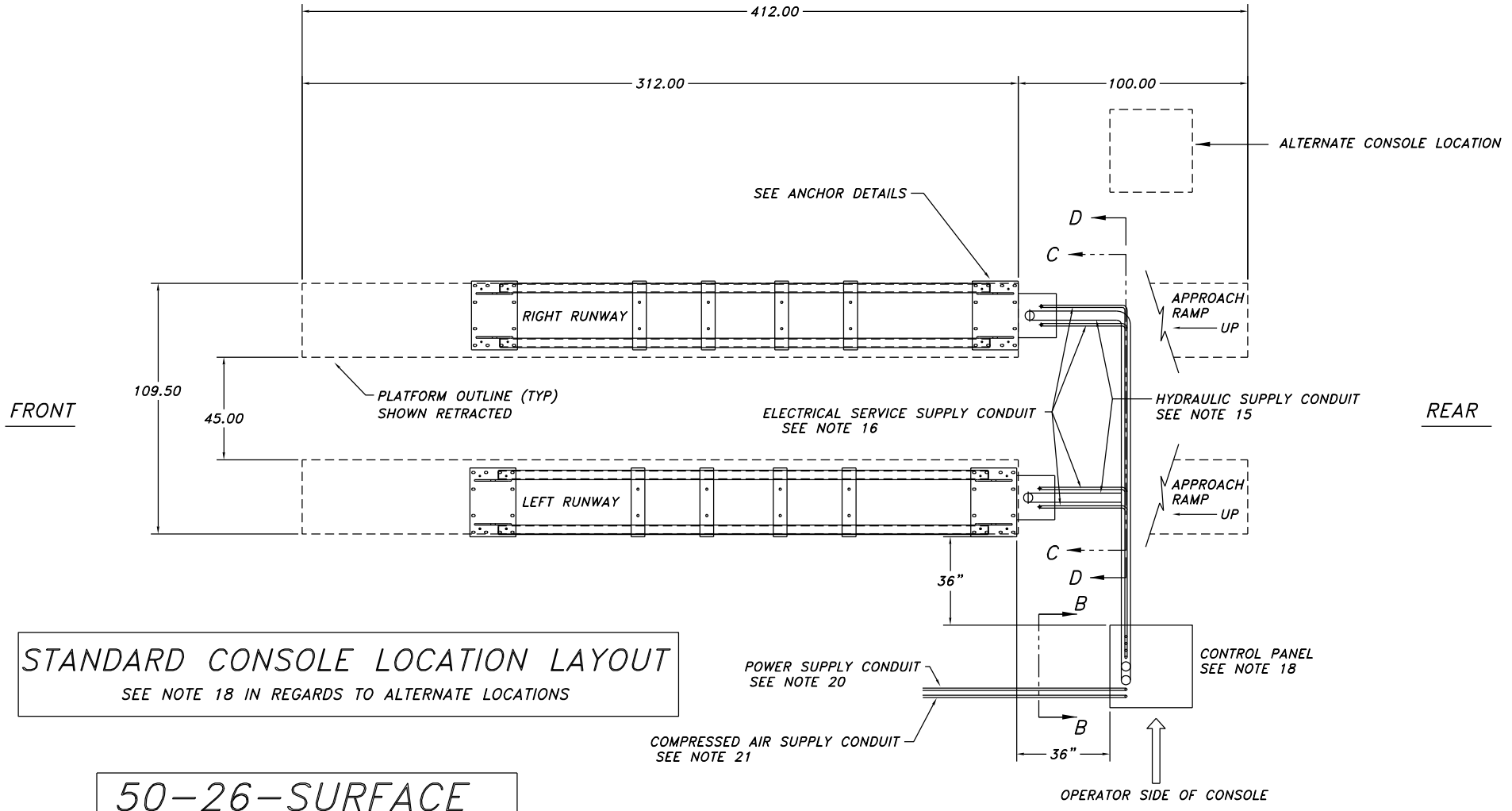
TOLERANCES:
ANGULAR ± 1.°
FRACTIONAL ± .030
DECIMAL:
.XX ± .030
.XXX ± .005

FILE NAME P-010-A-001

P-010-

NEXT ASSEMBLY

SCALE 1/16	DRAWN dak	MOHAWK RESOURCES LTD.	
CHECKED	APPROVED	TITLE INSTALLATION REQUIREMENTS DRAWING, 50-26-SURFACE	
DATE 4/14/03	WEIGHT LB	FROM	DRAWING NUMBER P-010-A-001



STANDARD CONSOLE LOCATION LAYOUT

SEE NOTE 18 IN REGARDS TO ALTERNATE LOCATIONS

50-26-SURFACE

C-SIZE

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	± 1 °
FRACTIONAL	± .030
DECIMAL:	
0.XX	± .030
0.XXX	± .005

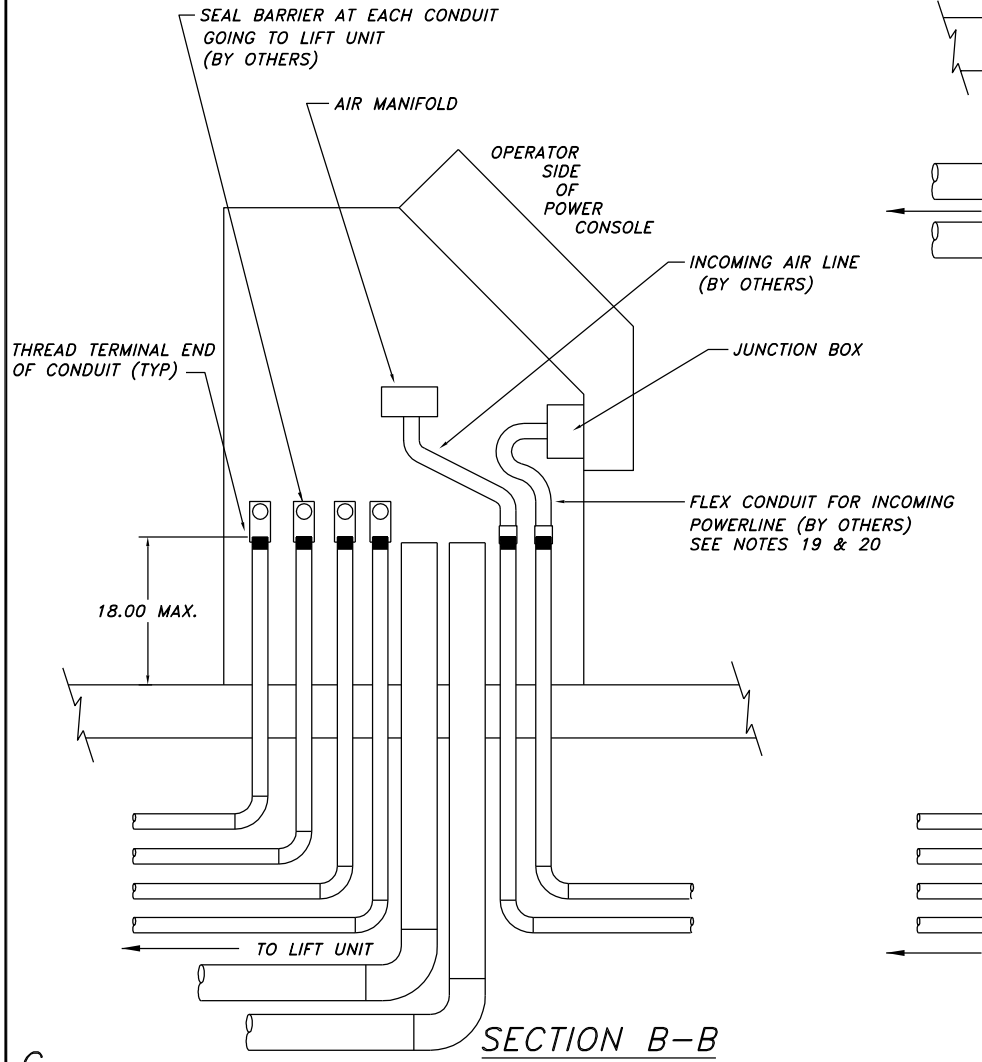
FILE NAME: P-010-D-001

P-010-A-001

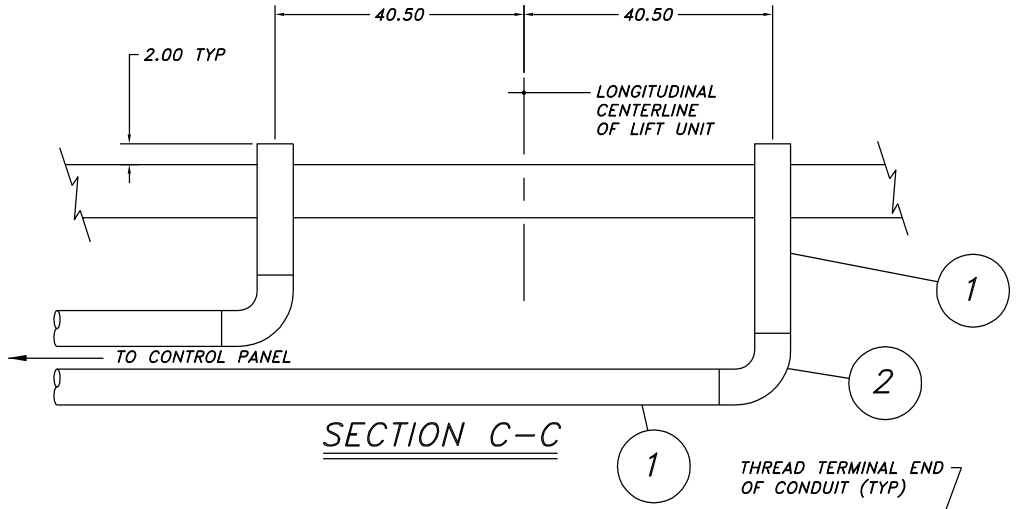
NEXT ASSEMBLY

SCALE	DRAWN	MOHAWK RESOURCES LTD.	
	dak		
CHECKED	APPROVED	TITLE: 50-26-SURFACE STANDARD CONSOLE LOCATION LAYOUT	
DATE: 4/04	WEIGHT: LB.	FROM	DRAWING NUMBER: P-010-D-001

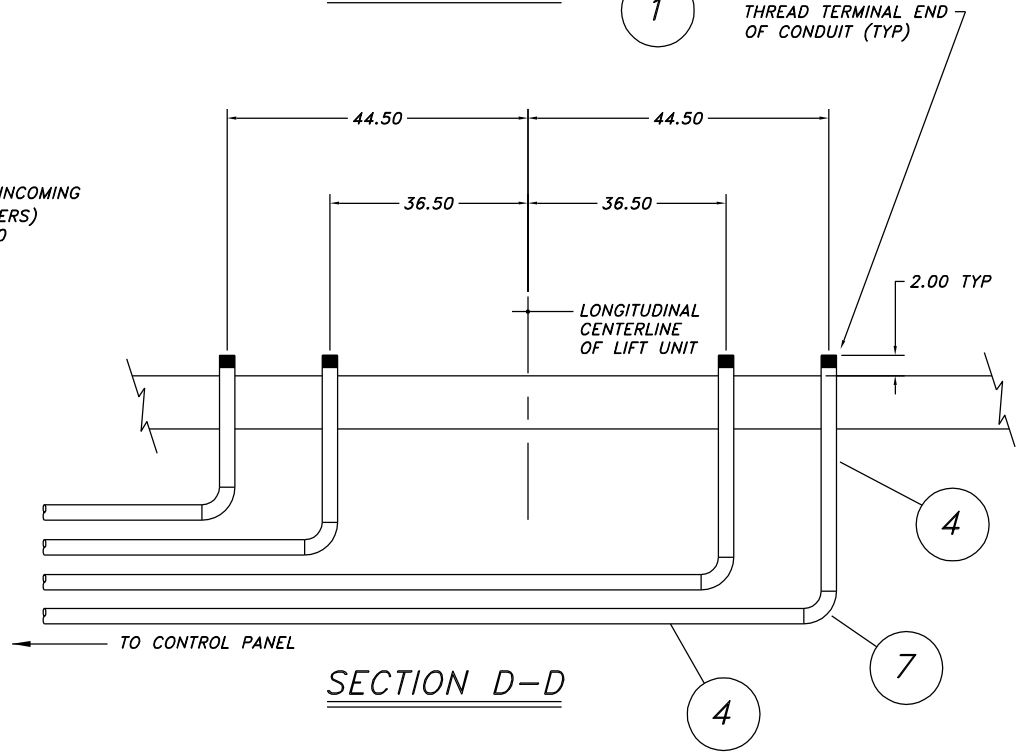
LIFT & CONSOLE SUBGRADE CONDUIT LOCATIONS, SECTION VIEWS



SECTION B–B



SECTION C–C



SECTION D–D

C-SIZE

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.

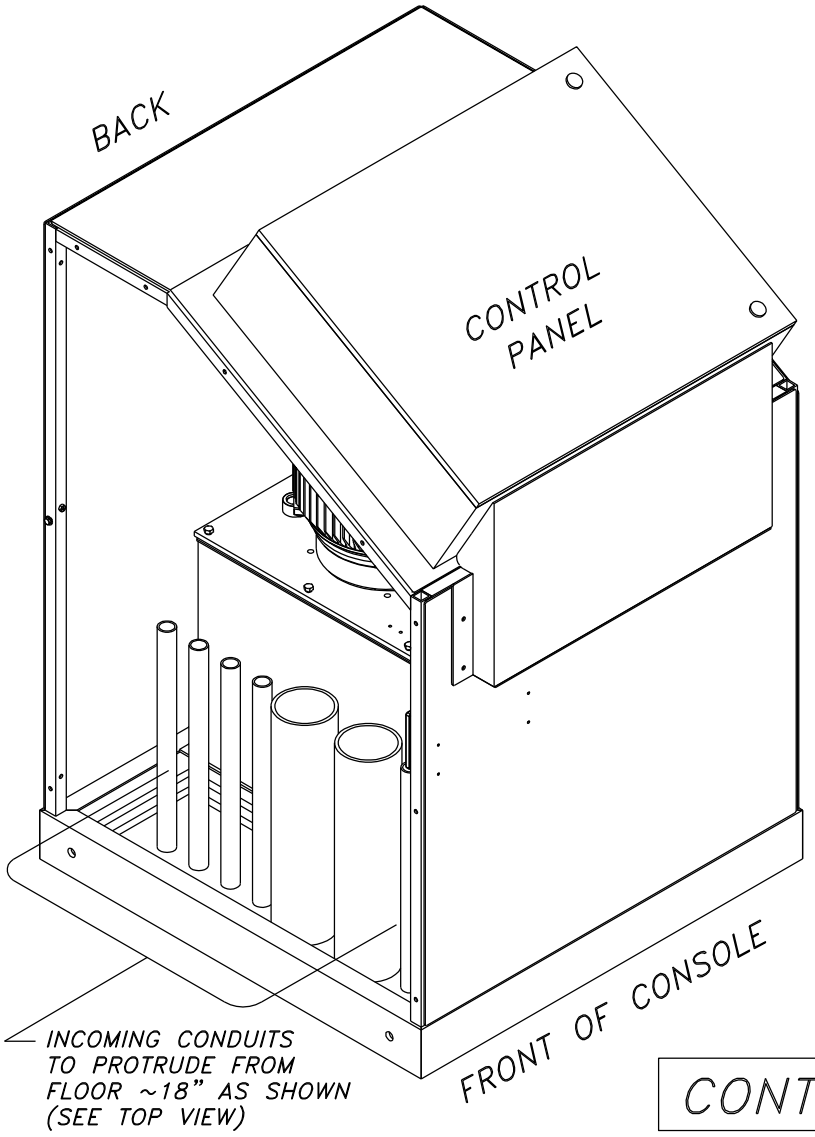
TOLERANCES:	
ANGULAR	± 1 °
FRACTIONAL	± .030
DECIMAL:	
0.XX	± .030
0.XXX	± .005
FILE NAME	P-010-D-002
P-010-A-001	
NEXT ASSEMBLY	
SCALE	
DRAWN	dak
CHECKED	
APPROVED	
DATE	4/03
WEIGHT	LB.

MOHAWK RESOURCES LTD.

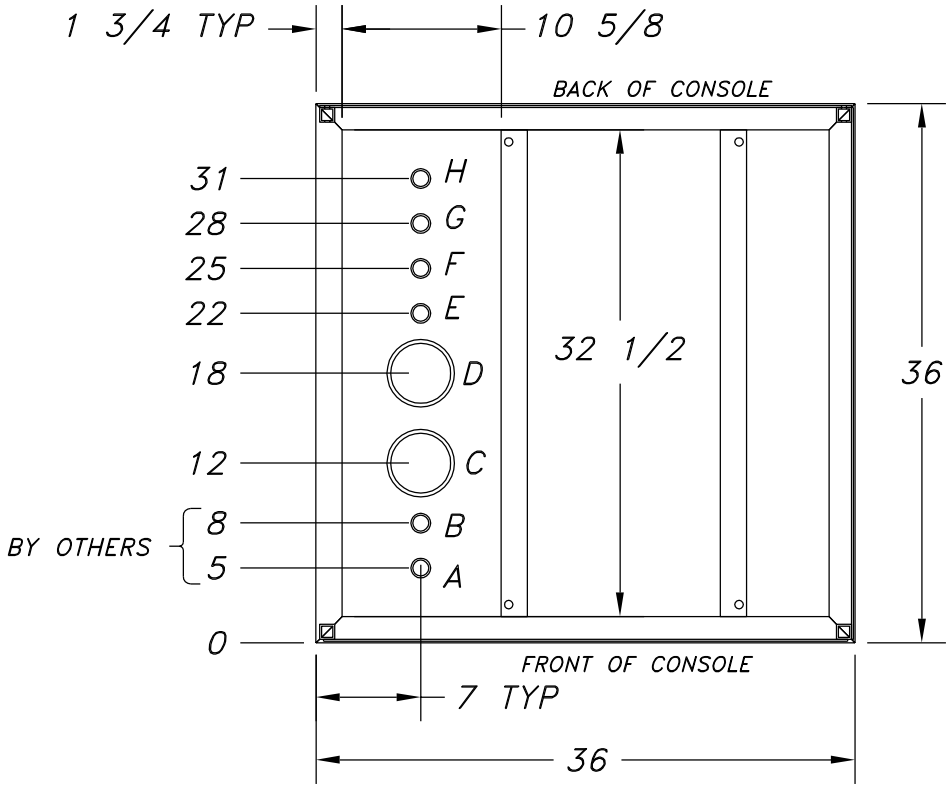
TITLE: LIFT & CONSOLE CONDUIT LOCATIONS, SECTION VIEWS

FROM

DRAWING NUMBER: P-010-D-002



TOP VIEW OF CONSOLE FRAME



CONDUIT SIZES & APPLICATION:

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

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

CONTROL CONSOLE & STUB–UP DETAILS

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.

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

FILE NAME P-010-D-003

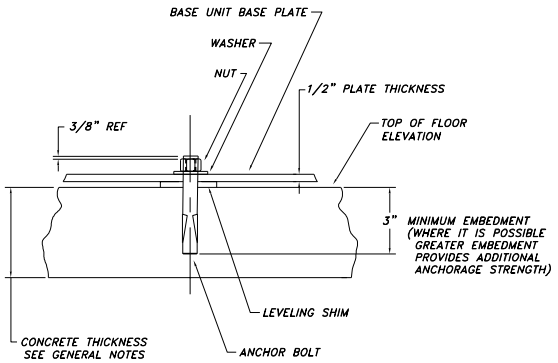
P-010-A-001

NEXT ASSEMBLY

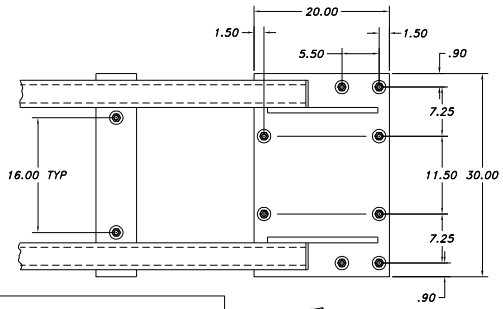
SCALE	DRAWN dak	MOHAWK RESOURCES LTD.	
CHECKED	APPROVED	TITLE CONTROL CONSOLE & STUB-UP DETAILS	
DATE 4/03	WEIGHT LB.	FROM	DRAWING NUMBER P-010-D-003

D-SIZE

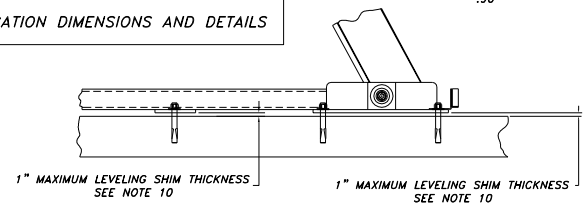
ANCHOR DETAILS & SHIMMING

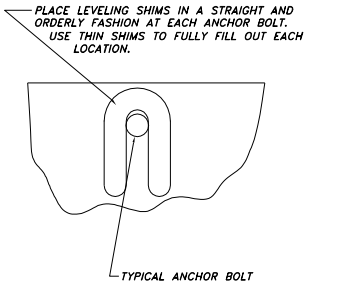


ANCHOR BOLT DETAIL



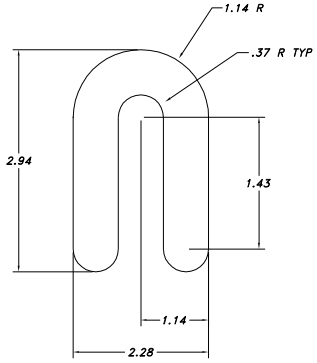
ANCHOR BOLT LOCATION DIMENSIONS AND DETAILS





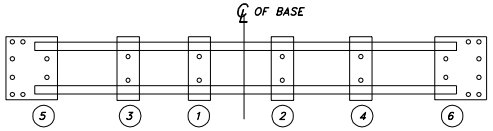
THE MAXIMUM THICKNESS OF ANY STACK OF SHIMS IS 1"
SEE NOTES 9 & 10

PLACEMENT OF LEVELING SHIM DETAIL



LEVELING SHIMS ARE AVAILABLE IN A RANGE OF THICKNESSES FROM 1/16", 1/8", & 1/4"

LEVELING SHIM DETAIL



TIGHTENING SEQUENCE FOR ANCHOR BOLTS

APPROVED ANCHOR BOLTS PROVIDED BY MOHAWK LIFT

ANCHOR BOLTS ARE MANUFACTURED BY

WEJ-IT FASTENING SYSTEMS
2415 EAST 13TH PLACE
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	LENGTH
3460	6"
3482	8 1/2"
3410	10"

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 ANY USE OF SUCH REQUIRES WRITTEN APPROVAL OF MOHAWK RESOURCES, LTD. ANY OTHER UNAPPROVED ANCHOR BOLT PRODUCT MAY NOT HAVE THE DOCUMENTED STRENGTH TO MEET THE CERTIFICATION REQUIREMENTS OF THE AUTOMOTIVE LIFT INSTITUTE AND MAY AFFECT THE CERTIFICATION OF THE INSTALLATION.

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.

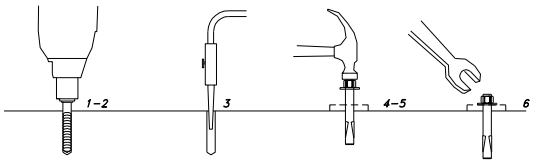
2. DRILL THE HOLE DEEPER THAN THE INTENDED EMBEDMENT OF THE ANCHOR, BUT NOT CLOSER THAN TWO ANCHOR DIAMETERS TO THE BOTTOM (OPPOSITE) SURFACE OF THE CONCRETE.

3. CLEAN THE HOLE USING COMPRESSED AIR AND A NYLON BRUSH. A CLEAN HOLE IS NECESSITY 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 FULL TURNS, BUT NOT MORE THAN 5 TURNS PAST THE HAND TIGHT POSITION. (USE OF AN IMPACT WRENCH FOR INSTALLATION OF ANCHORS IS NOT RECOMMENEDED)



*ALWAYS WEAR SAFETY GLASSES. FOLLOW THE DRILL MANUFACTURER'S SAFETY INSTRUCTIONS. USE ONLY SOLID CARBIDE-TIPPED DRILL BITS MEETING ANSI B212.15 DIAMETER STANDARDS.

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 ± 1°
FRACTIONAL ± .030
DECIMAL:
0.XX ± .030
0.XXX ± .005

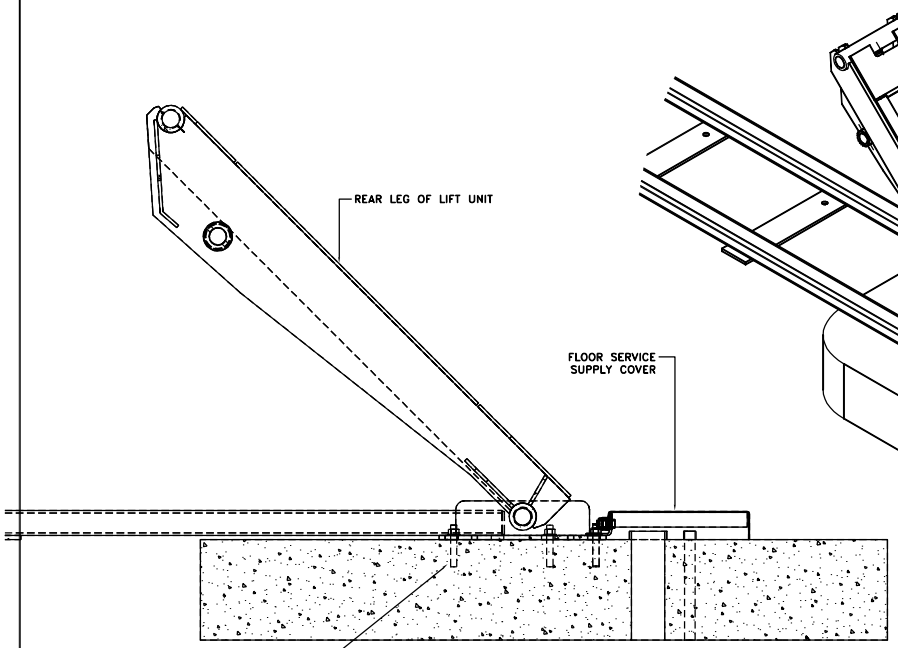
FILE NAME P-010-D-004

P-010-A-001

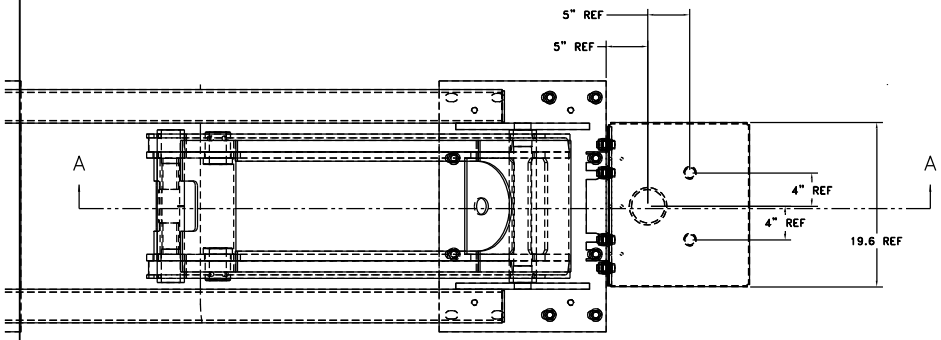
NEXT ASSEMBLY

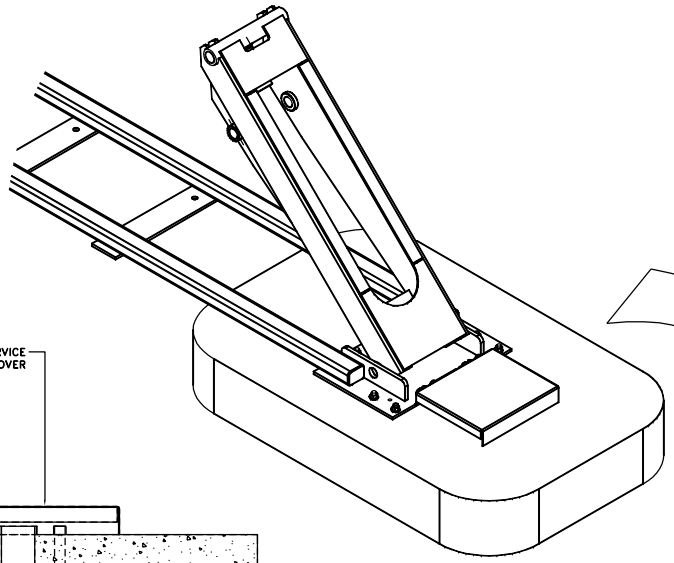
SCALE	DRAWN	MOHAWK RESOURCES LTD.
	dak	
CHECKED	APPROVED	TITLE: ANCHOR DETAILS & SHIMMING
DATE 4/03	WEIGHT L.B.	FROM
		DRAWING NUMBER P-010-D-004

D-SIZE



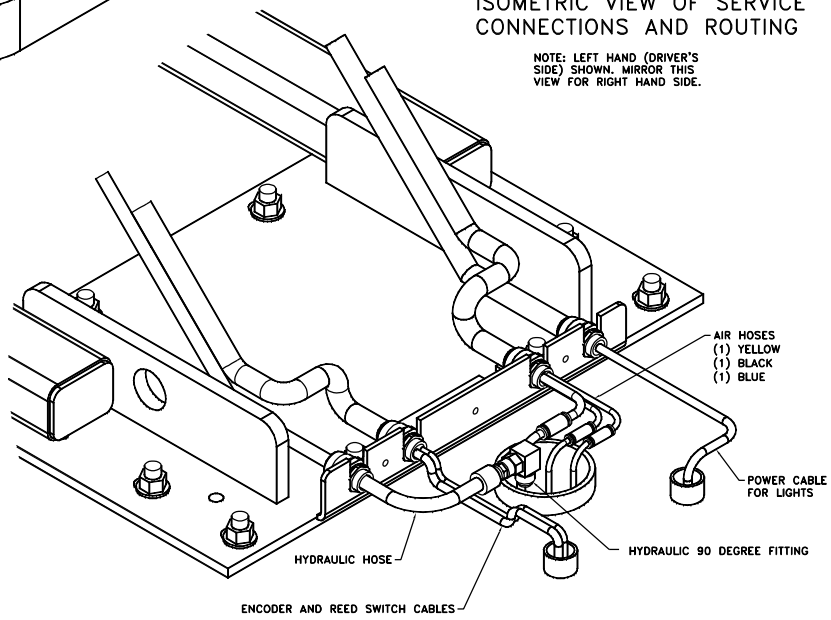
SECTION A–A





ISOMETRIC VIEW OF SERVICE CONNECTIONS AND ROUTING

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



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.

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

FILE NAME P-010-D-005

P-010-A-001

NEXT ASSEMBLY

SCALE 1/8
DRAWN rwv7089
CHECKED
APPROVED
DATE 4/15/03
WEIGHT n/a LB.
FROM n/a

MOHAWK RESOURCES LTD.

TITLE Parallelogram Installation Service Leg Conduit Details

DRAWING NUMBER P-010-D-005

D-SIZE

LIFT DATA TABLE	
MOHAWK RESOURCES, LTD PARALELLOGRAM 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 SUBSTITION 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	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
		* ITEMS SUPPLIED BY MOHAWK WITH THE LIFT UNIT	

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 ± 1°
FRACTIONAL ± .030
DECIMAL:
0.XX ± .030
0.XXX ± .005

FILE NAME P-010-D-006

P-010-A-001

NEXT ASSEMBLY

SCALE

DRAWN dak

CHECKED

APPROVED

DATE 4/03

WEIGHT LB.

MOHAWK RESOURCES LTD.

TITLE 50-26-SURFACE LIFT DATA TABLE

FROM

DRAWING NUMBER P-010-D-006

D-SIZE

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 THE SLAB IS CAST SUFFICIENTLY THICK. A MINIMUM OF 6 INCHES CLEARANCE SHOULD BE PROVIDED FOR ANCHOR BOLTS AND DRILLING ALLOTMENT. THE INSTALLER MUST BE NOTIFIED THAT RADIANT TUBES ARE USED SUCH THAT CARE IS TAKEN NOT TO OVER DRILL THE DEPTH OF THE ANCHORS.

NOTE 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 LEVELED USING INDIVIDUAL ANCHOR BOLT SHIMS.

NOTE 11
WEJ-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 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 WEJ-IT 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 RQUIREMENTS 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.

SURFACE LIFTS ONLY

D-SIZE

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.

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

FILE NAME
P-010-D-007

P-010-A-001

NEXT ASSEMBLY

SCALE	DRAWN dak	MOHAWK RESOURCES LTD.	
CHECKED	APPROVED	TITLE SURFACE INSTALLATION GENERAL NOTES	
DATE 4/03	WEIGHT LB.	FROM	DRAWING NUMBER P-010-D-007

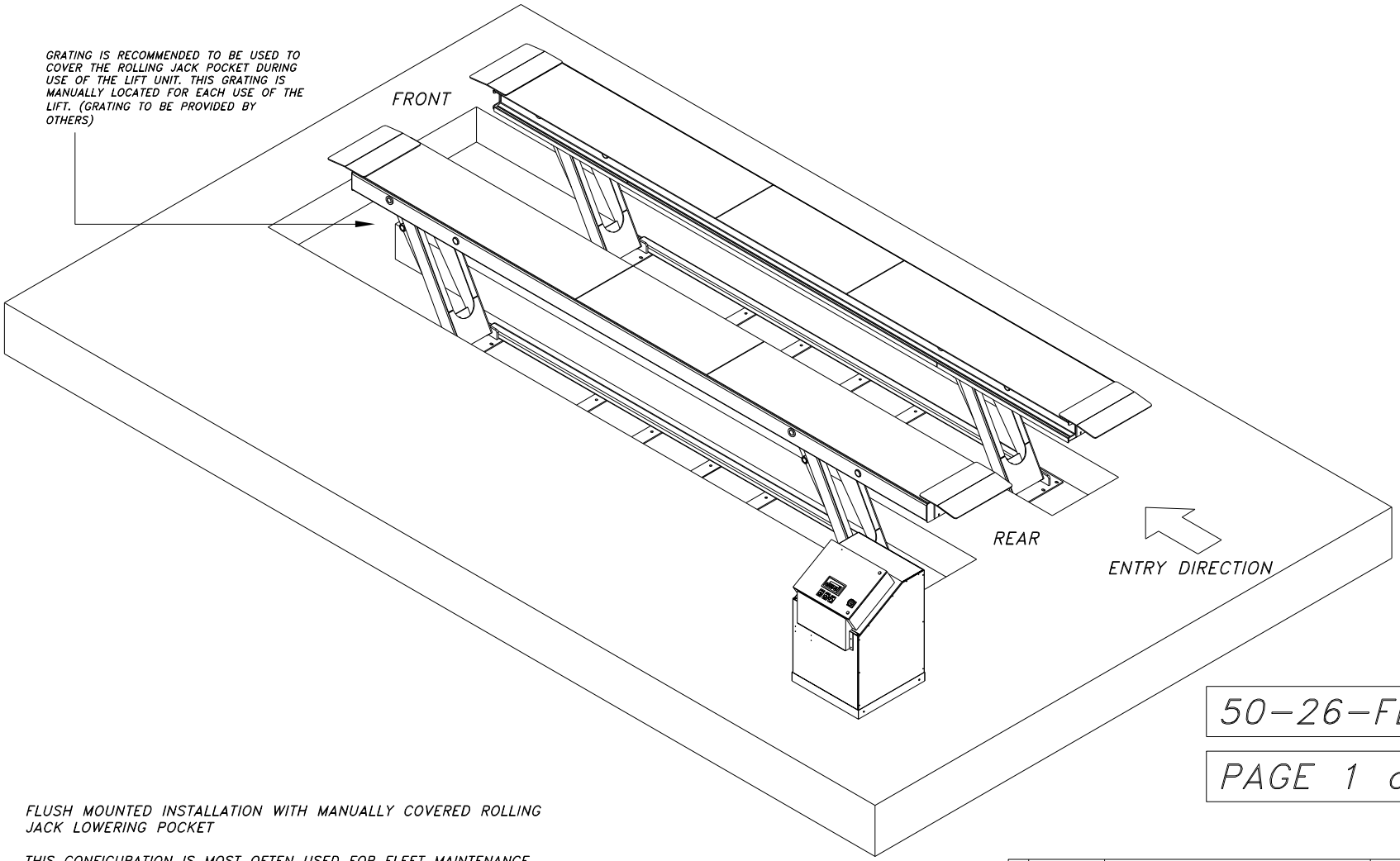
MOHAWK

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



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.

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

Ports List

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.

TOLERANCES:
ANGULAR ± 1°
FRACTIONAL ± 1/32
DECIMAL:
.XX ± .030
.XXX ± .005

FILE NAME: P-010-A-002

P-010-

NEXT ASSEMBLY

SCALE: 1/8
DRAWN: dak
CHECKED:
APPROVED:
DATE: 5/21/03
WEIGHT: LB.

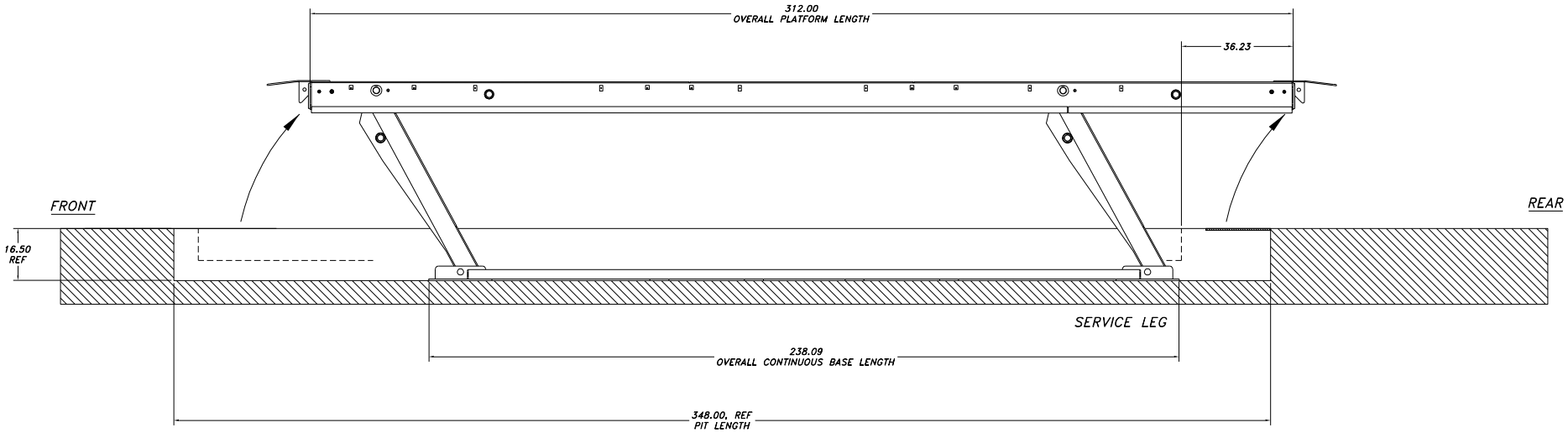
MOHAWK RESOURCES LTD.

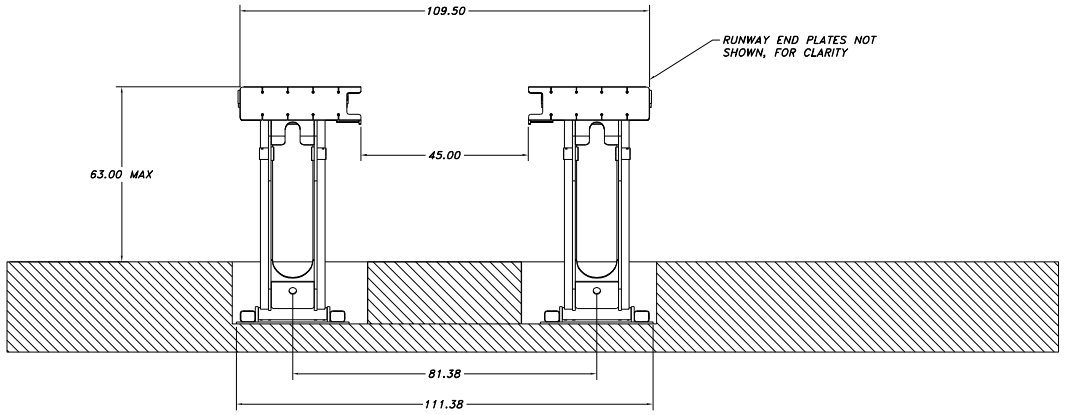
TITLE: INSTALLATION REQUIREMENTS DRAWING, 50-26-FLUSH

FROM:

DRAWING NUMBER: P-010-A-002

D-SIZE





50-26-FLUSH

PAGE 2 of 2

FRONT ELEVATION VIEW

D-SIZE

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.

TOLERANCES:
ANGULAR ± 1.°
FRACTIONAL ± 1/32
DECIMAL:
0.XX ± .030
0.XXX ± .005

FILE NAME P-010-A-002

P-010-

NEXT ASSEMBLY

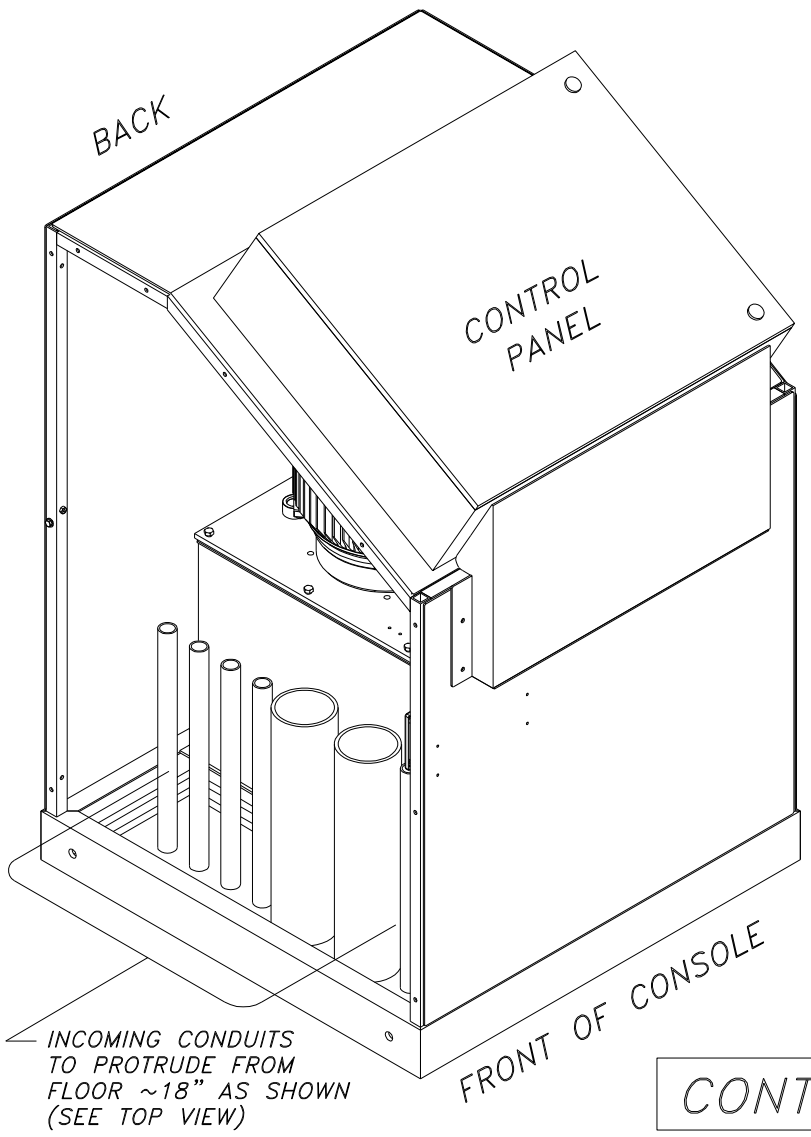
SCALE 1/16
DRAWN rwv7089
CHECKED
APPROVED
DATE 5/23/03
WEIGHT
L.B.

MOHAWK RESOURCES LTD.

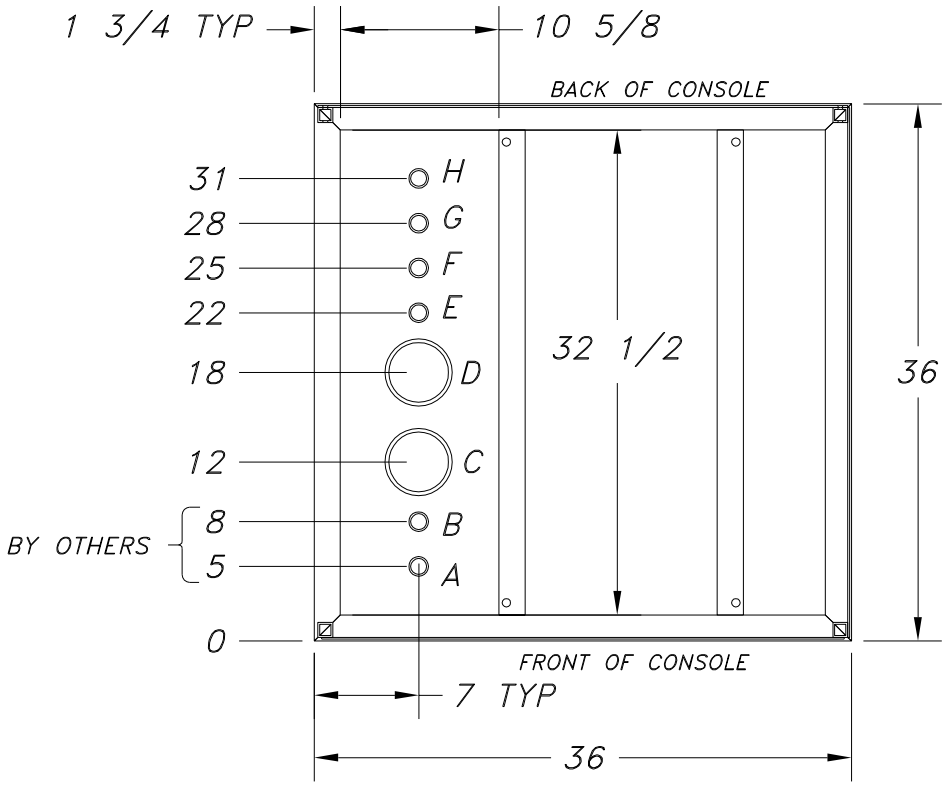
TITLE INSTALLATION REQUIREMENTS DRAWING, 50-26-FLUSH

FROM

DRAWING NUMBER P-010-A-002



TOP VIEW OF CONSOLE FRAME



CONDUIT SIZES & APPLICATION:

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

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

CONTROL CONSOLE & STUB-UP DETAILS

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.

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

FILE NAME P-010-D-003

P-010-A-001

NEXT ASSEMBLY

SCALE

DRAWN dak

CHECKED

APPROVED

DATE 4/03

WEIGHT LB

MOHAWK RESOURCES LTD.

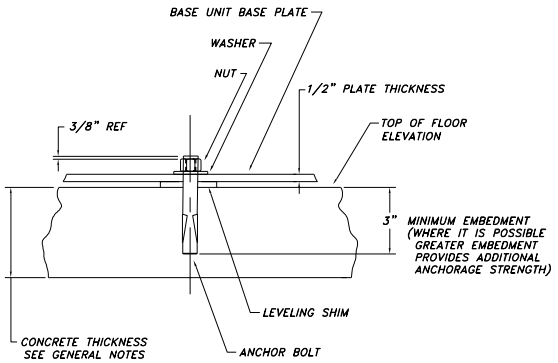
TITLE CONTROL CONSOLE & STUB-UP DETAILS

FROM

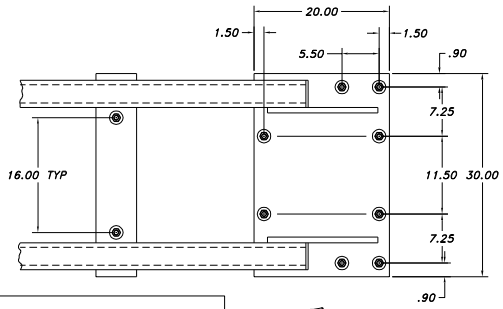
DRAWING NUMBER P-010-D-003

D-SIZE

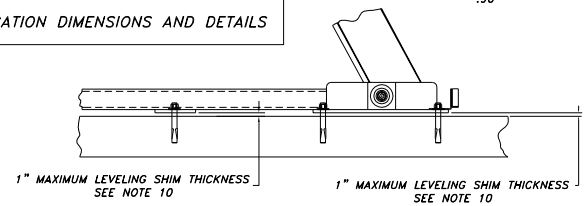
ANCHOR DETAILS & SHIMMING

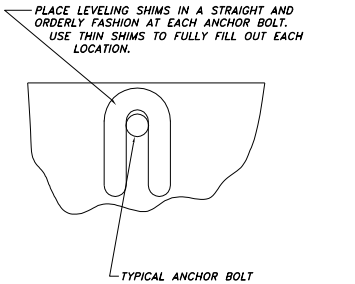


ANCHOR BOLT DETAIL



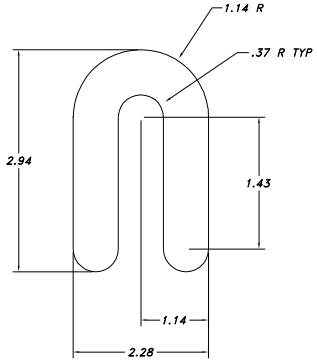
ANCHOR BOLT LOCATION DIMENSIONS AND DETAILS





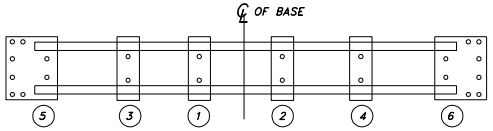
THE MAXIMUM THICKNESS OF ANY STACK OF SHIMS IS 1"
SEE NOTES 9 & 10

PLACEMENT OF LEVELING SHIM DETAIL



LEVELING SHIMS ARE AVAILABLE IN A RANGE OF THICKNESSES FROM 1/16", 1/8", & 1/4"

LEVELING SHIM DETAIL



TIGHTENING SEQUENCE FOR ANCHOR BOLTS

APPROVED ANCHOR BOLTS PROVIDED BY MOHAWK LIFT

ANCHOR BOLTS ARE MANUFACTURED BY

WEJ-IT FASTENING SYSTEMS
2415 EAST 13TH PLACE
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	LENGTH
3460	6"
3482	8 1/2"
3410	10"

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 ANY USE OF SUCH REQUIRES WRITTEN APPROVAL OF MOHAWK RESOURCES, LTD. ANY OTHER UNAPPROVED ANCHOR BOLT PRODUCT MAY NOT HAVE THE DOCUMENTED STRENGTH TO MEET THE CERTIFICATION REQUIREMENTS OF THE AUTOMOTIVE LIFT INSTITUTE AND MAY AFFECT THE CERTIFICATION OF THE INSTALLATION.

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.

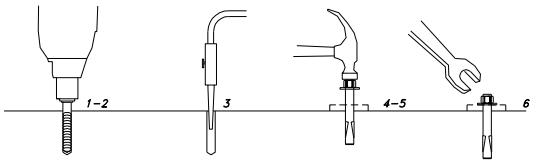
2. DRILL THE HOLE DEEPER THAN THE INTENDED EMBEDMENT OF THE ANCHOR, BUT NOT CLOSER THAN TWO ANCHOR DIAMETERS TO THE BOTTOM (OPPOSITE) SURFACE OF THE CONCRETE.

3. CLEAN THE HOLE USING COMPRESSED AIR AND A NYLON BRUSH. A CLEAN HOLE IS NECESSITY 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 FULL TURNS, BUT NOT MORE THAN 5 TURNS PAST THE HAND TIGHT POSITION. (USE OF AN IMPACT WRENCH FOR INSTALLATION OF ANCHORS IS NOT RECOMMENEDED)



*ALWAYS WEAR SAFETY GLASSES. FOLLOW THE DRILL MANUFACTURER'S SAFETY INSTRUCTIONS. USE ONLY SOLID CARBIDE-TIPPED DRILL BITS MEETING ANSI B212.15 DIAMETER STANDARDS.

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 ± 1°
FRACTIONAL ± .030
DECIMAL:
0.XX ± .030
0.XXX ± .005

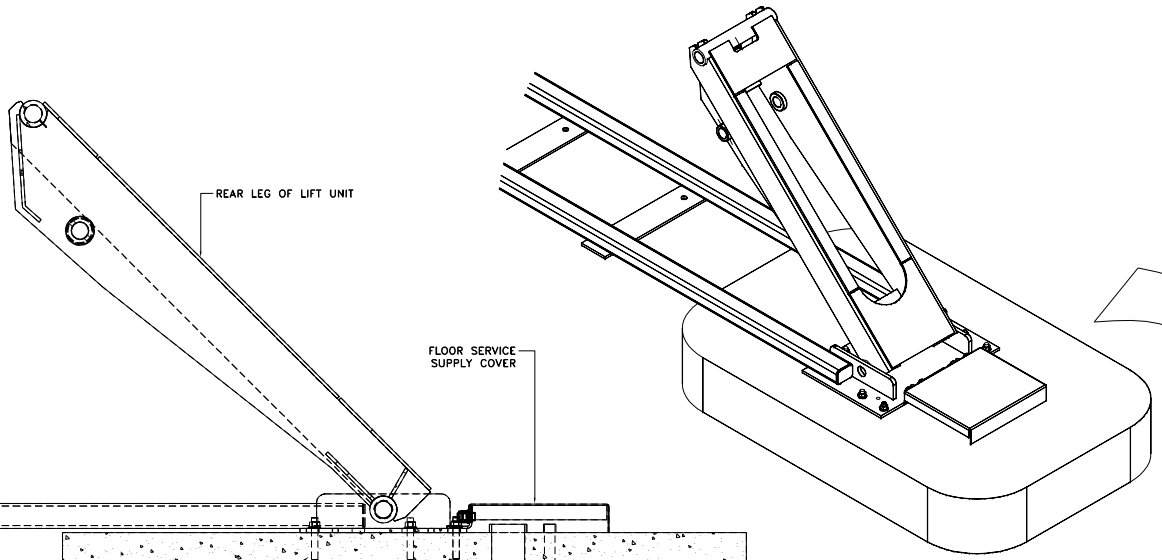
FILE NAME P-010-D-004

P-010-A-001

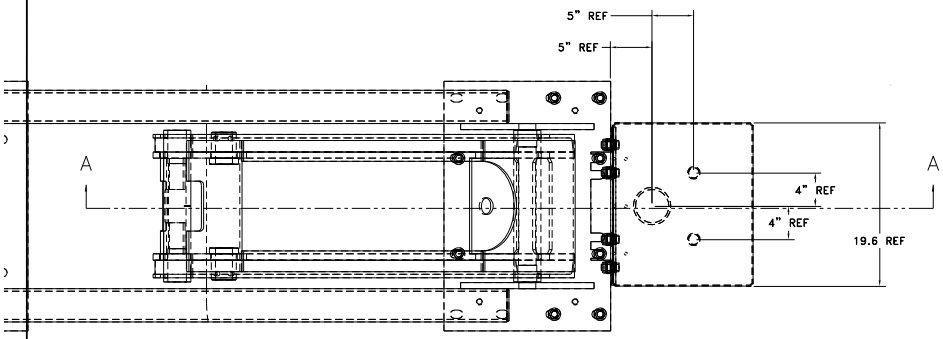
NEXT ASSEMBLY

SCALE	DRAWN	MOHAWK RESOURCES LTD.
	dak	
CHECKED	APPROVED	TITLE: ANCHOR DETAILS & SHIMMING
DATE 4/03	WEIGHT L.B.	FROM
		DRAWING NUMBER P-010-D-004

D-SIZE

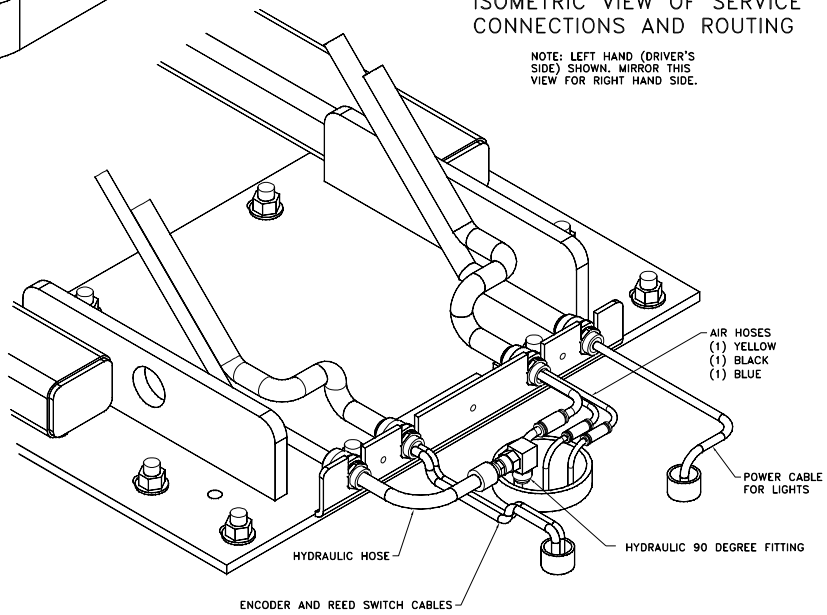


SECTION A–A



ISOMETRIC VIEW OF SERVICE CONNECTIONS AND ROUTING

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



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.

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

FILE NAME: P-010-D-005

P-010-A-001

NEXT ASSEMBLY

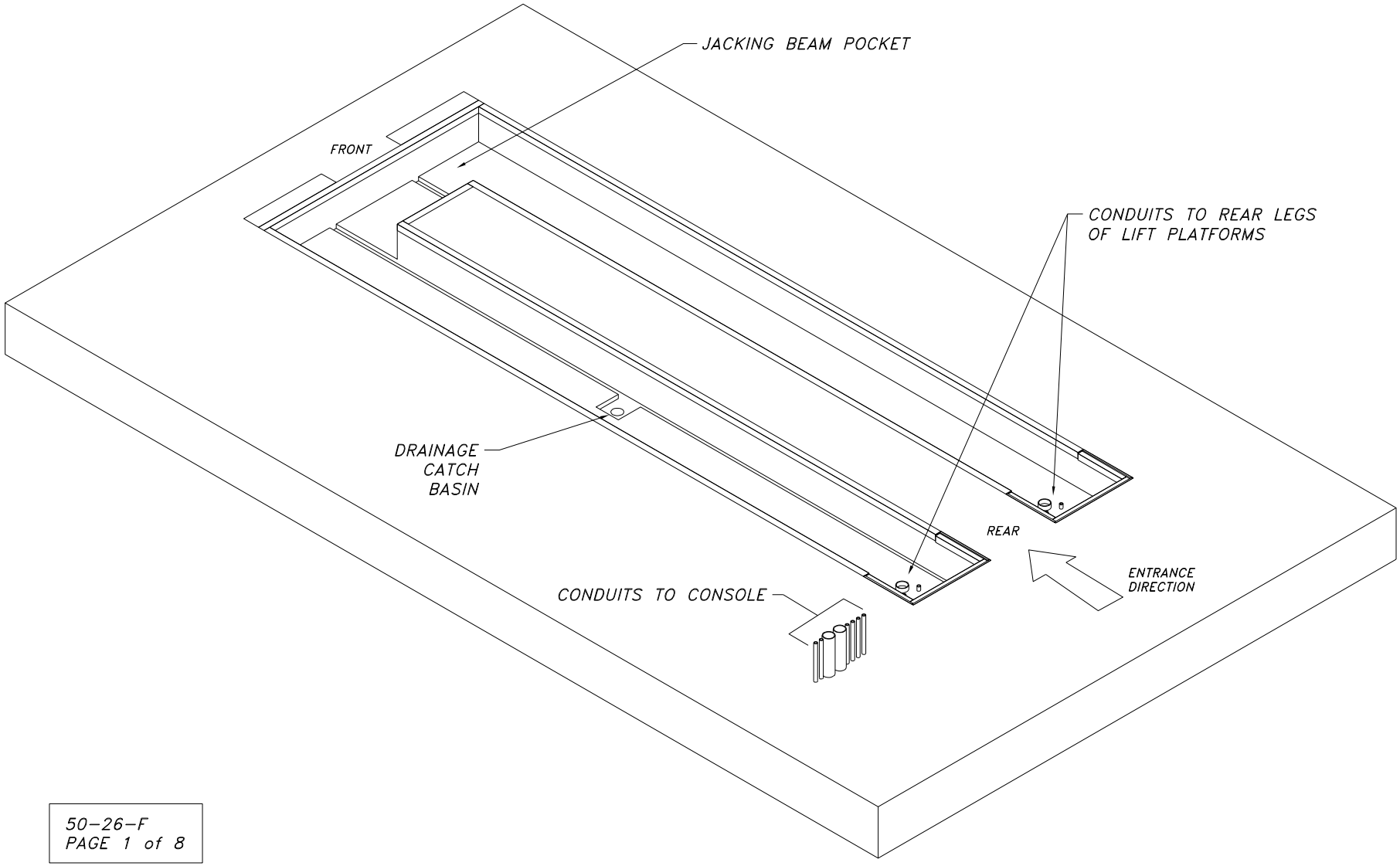
SCALE: 1/8
DRAWN: rwv7089
CHECKED
APPROVED
DATE: 4/15/03
WEIGHT: n/a LB
FROM: n/a

MOHAWK RESOURCES LTD.

TITLE: Parallelogram Installation Service Leg Conduit Details

DRAWING NUMBER: P-010-D-005

D-SIZE



50-26-F
PAGE 1 of 8

D-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:
0.XX ± .030
0.XXX ± .005

FILE NAME P-010-D-010

P-010-A-002

NEXT ASSEMBLY

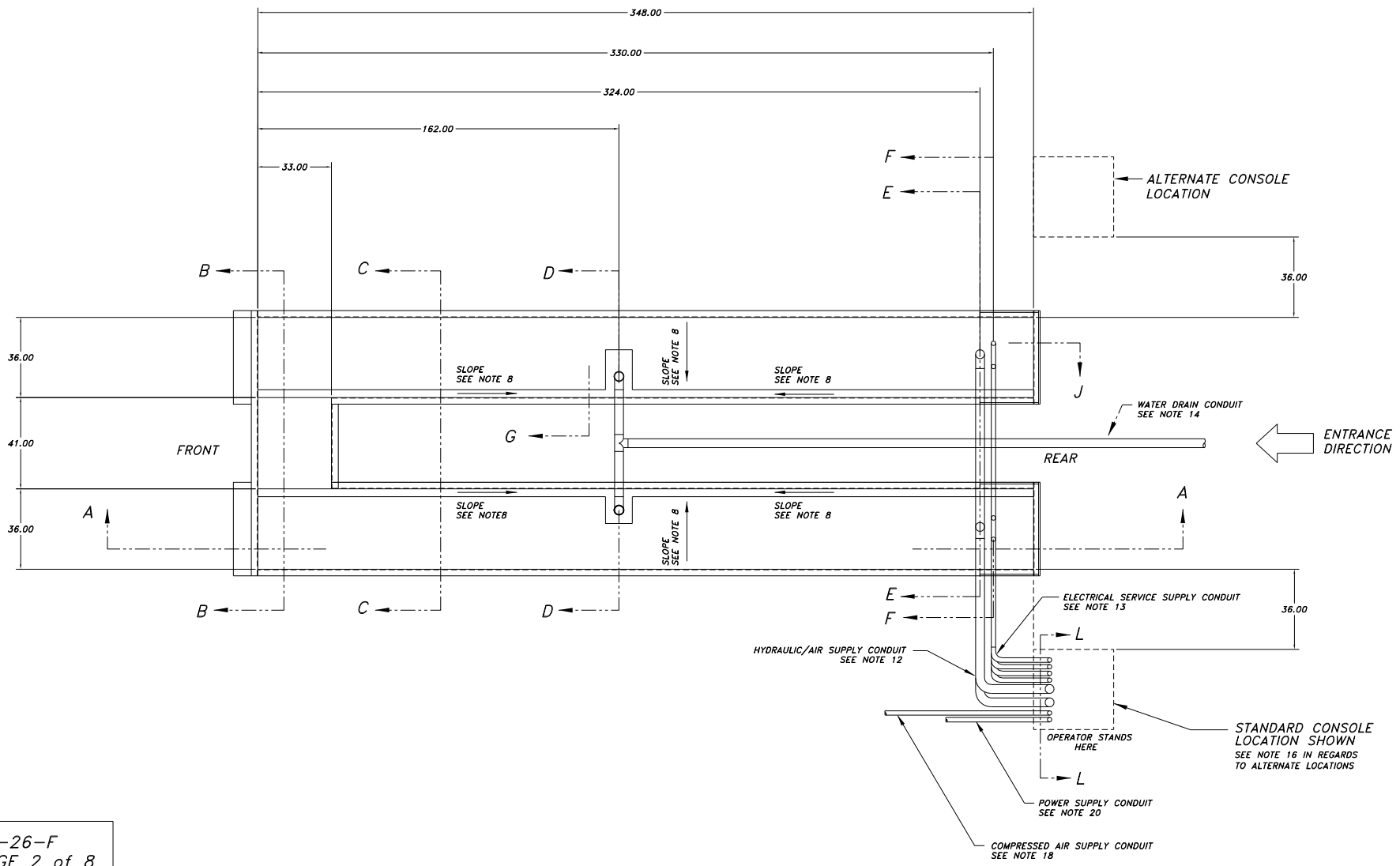
SCALE 3/64 | DRAWN dgk | CHECKED | APPROVED | DATE 5/19/03 | WEIGHT LB

MOHAWK RESOURCES LTD.

TITLE PIT DRAWINGS & SECTIONS FOR 50-26-F (FLUSH)

FROM

DRAWING NUMBER P-010-D-010



50-26-F
PAGE 2 of 8

D-SIZE

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:
0.XX ± .030
0.XXX ± .005

FILE NAME P-010-D-010

P-010-A-002

NEXT ASSEMBLY

SCALE 3/64 | DRAWN dgk | CHECKED | APPROVED | DATE 5/19/03 | WEIGHT LB.

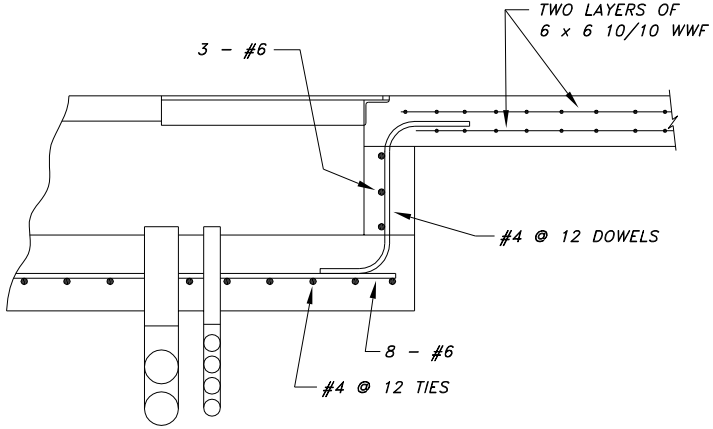
MOHAWK RESOURCES LTD.

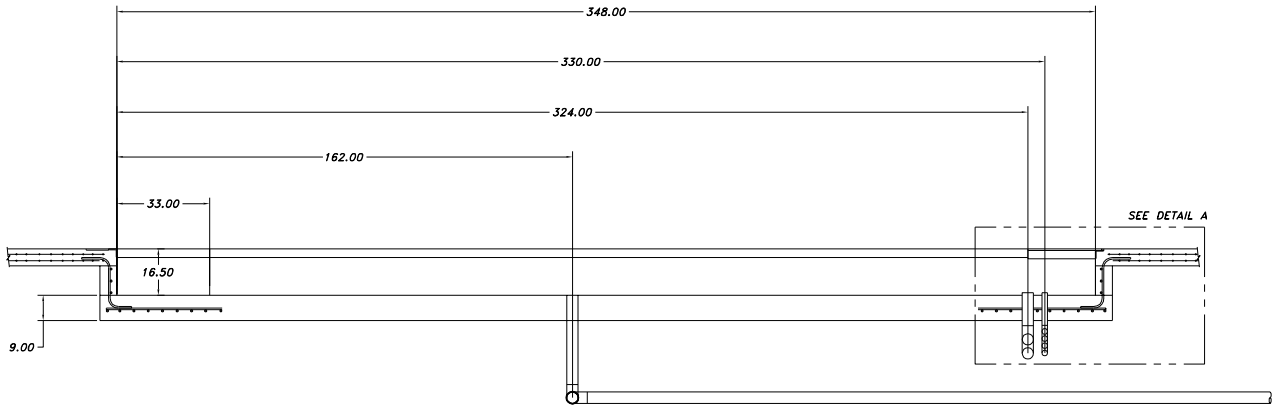
TITLE PIT DRAWINGS & SECTIONS FOR 50-26-F (FLUSH)

FROM

DRAWING NUMBER P-010-D-010

DETAIL A





SECTION A-A

50-26-F
PAGE 3 of 8

D-SIZE

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.

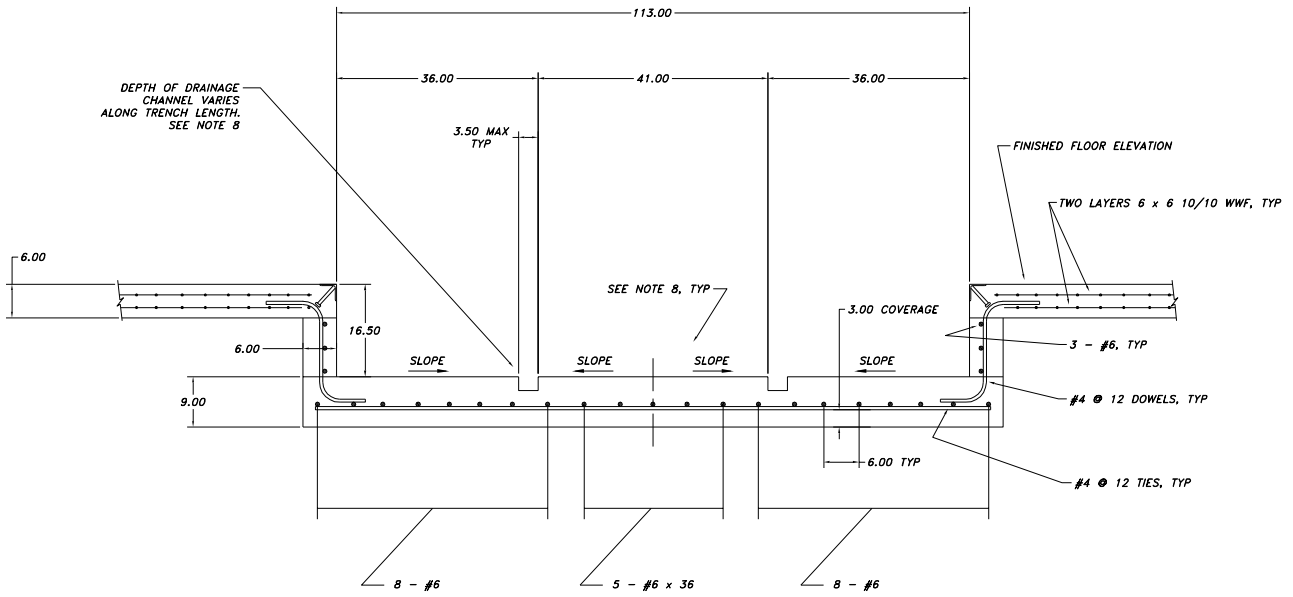
TOLERANCES:
ANGULAR ± 1°
FRACTIONAL ± .030
DECIMAL:
0.XX ± .030
0.XXX ± .005

FILE NAME P-010-D-010

P-010-A-002

NEXT ASSEMBLY

SCALE 3/64	DRAWN dak	MOHAWK RESOURCES LTD.	
CHECKED	APPROVED	TITLE PIT DRAWINGS & SECTIONS FOR 50-26-F (FLUSH)	
DATE 5/19/03	WEIGHT L.B.	FROM	DRAWING NUMBER P-010-D-010



SECTION B-B

50-26-F
PAGE 4 of 8

D-SIZE

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.

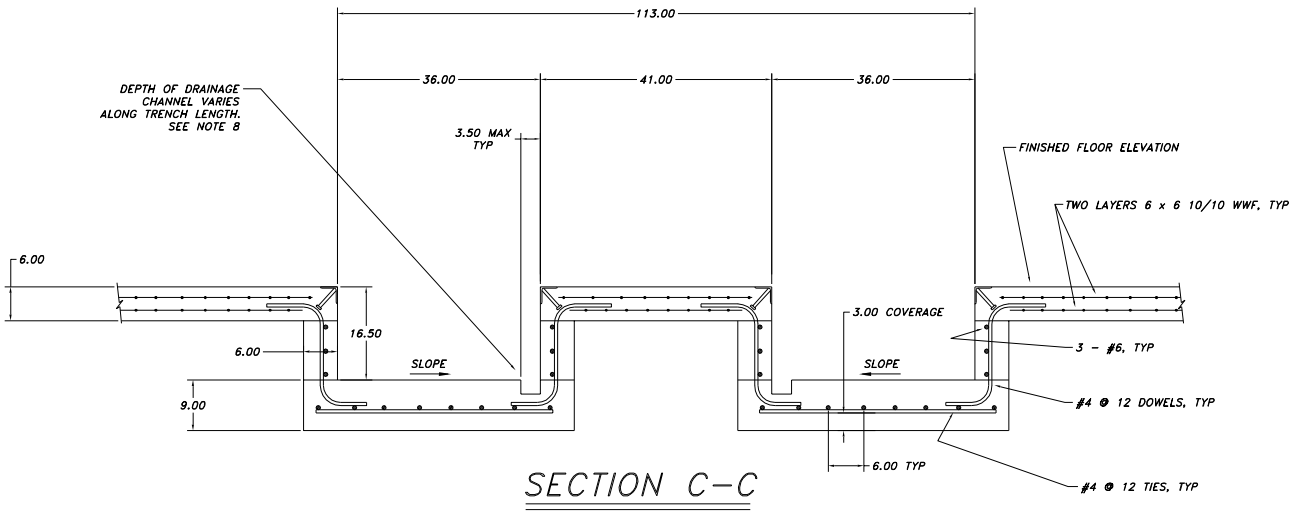
TOLERANCES:
ANGULAR ± 1°
FRACTIONAL ± .030
DECIMAL:
0.XX ± .030
0.XXX ± .005

FILE NAME P-010-D-010

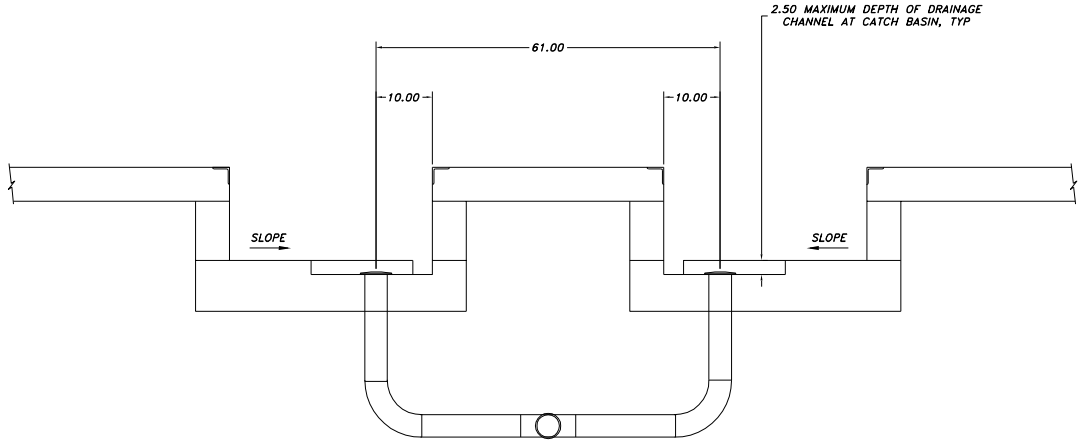
P-010-A-002

NEXT ASSEMBLY

SCALE 3/32	DRAWN dak	MOHAWK RESOURCES LTD.	
CHECKED	APPROVED	TITLE PIT DRAWINGS & SECTIONS FOR 50-26-F (FLUSH)	
DATE 5/19/03	WEIGHT L.B.	FROM	DRAWING NUMBER P-010-D-010



SECTION C-C



SECTION D-D

50-26-F
PAGE 5 of 8

D-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-70T1 CODE 5.3 FLUX CORE WIRE ONLY.

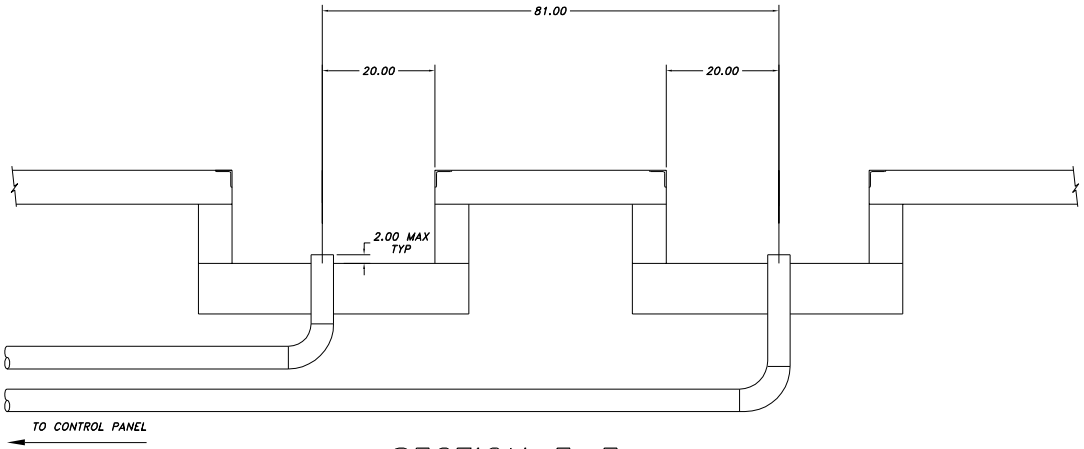
TOLERANCES:
ANGULAR ± 1°
FRACTIONAL ± .030
DECIMAL:
0.XX ± .030
0.XXX ± .005

FILE NAME P-010-D-010

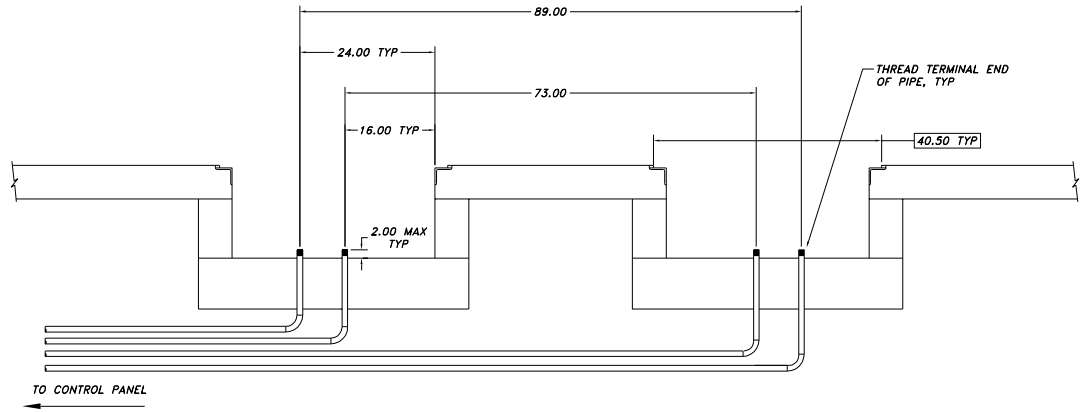
P-010-A-002

NEXT ASSEMBLY

SCALE 3/32	DRAWN dak	MOHAWK RESOURCES LTD.	
CHECKED	APPROVED	TITLE PIT DRAWINGS & SECTIONS FOR 50-26-F (FLUSH)	
DATE 5/19/03	WEIGHT LB.	FROM	DRAWING NUMBER P-010-D-010



SECTION E–E



SECTION F–F

50–26–F
PAGE 6 of 8

D–SIZE

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.

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

FILE NAME
P-010-D-010

P-010-A-002

NEXT ASSEMBLY

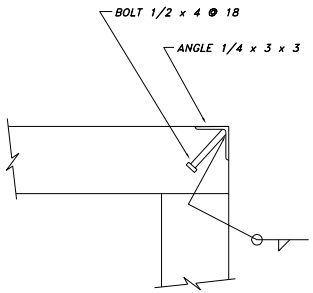
SCALE 3/32
DRAWN dak
CHECKED
APPROVED
DATE 5/19/03
WEIGHT LB.

MOHAWK RESOURCES LTD.

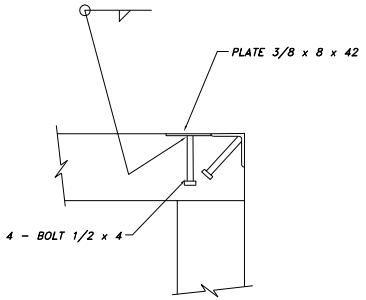
TITLE PIT DRAWINGS & SECTIONS FOR 50–26–F (FLUSH)

FROM

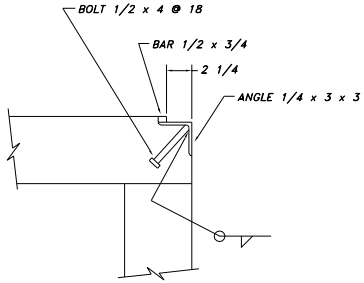
DRAWING NUMBER P-010-D-010



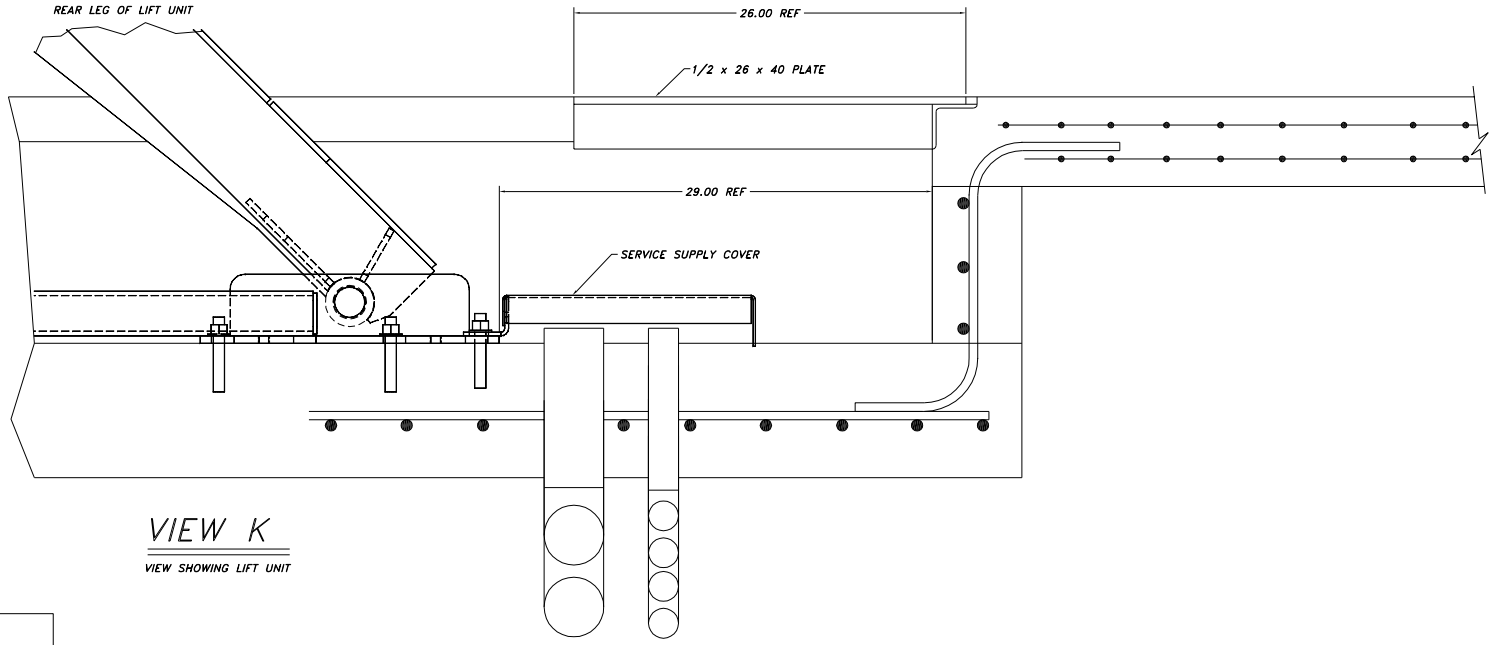
SECTION G



SECTION H



SECTION J



VIEW K

VIEW SHOWING LIFT UNIT

50-26-F
PAGE 7 of 8

D-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-70T1 CODE 5.3 FLUX CORE WIRE ONLY.

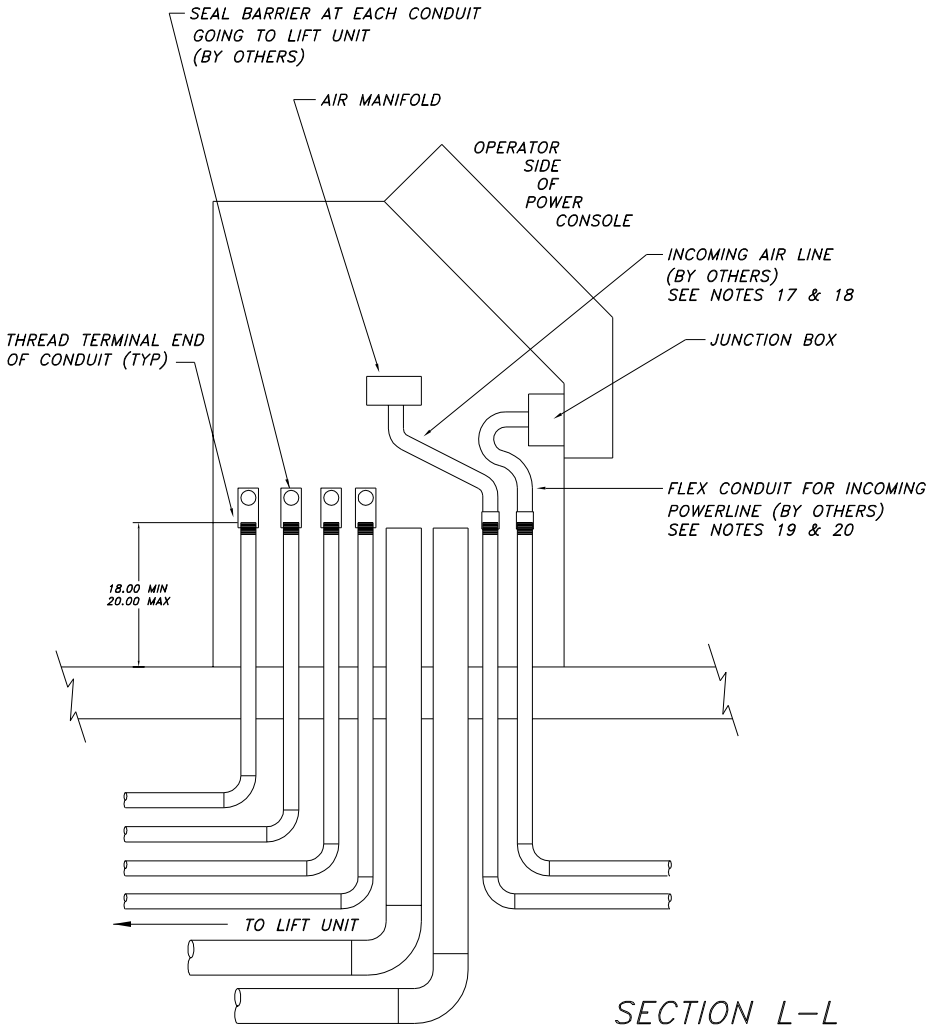
TOLERANCES:
ANGULAR ± 1°
FRACTIONAL ± .030
DECIMAL:
0.XX ± .030
0.XXX ± .005

FILE NAME P-010-D-010

P-010-A-002

NEXT ASSEMBLY

SCALE 3/32 | DRAWN dak | MOHAWK RESOURCES LTD.
CHECKED | APPROVED | TITLE PIT DRAWINGS & SECTIONS FOR 50-26-F (FLUSH)
DATE 5/19/03 | WEIGHT LB. | FROM | DRAWING NUMBER P-010-D-010



SECTION L–L

50–26–F
PAGE 8 of 8

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 53 FLUX CORE WIRE ONLY.

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

FILE NAME P-010-D-010

P-010-A-002

NEXT ASSEMBLY

SCALE 3/64 | DRAWN dgk | CHECKED | APPROVED | DATE 5/19/03 | WEIGHT LB

MOHAWK RESOURCES LTD.

TITLE PIT DRAWINGS & SECTIONS FOR 50–26–F (FLUSH)

FROM

DRAWING NUMBER P-010-D-010

D–SIZE

LIFT DATA TABLE

MOHAWK RESOURCES, LTD

PARALELLOGRAM 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.)	SEE PIT DRAWINGS
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 SUBSTITION 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	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
		* ITEMS SUPPLIED BY MOHAWK WITH THE LIFT UNIT	

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.

TOLERANCES:
ANGULAR ± 1.°
FRACTIONAL ± 0.30
DECIMAL:
0.XX ± .030
0.XXX ± .005

FILE NAME P-010-D-011

P-010-A-002

NEXT ASSEMBLY

SCALE

DRAWN rwv7089

CHECKED

APPROVED

DATE 5/03

WEIGHT LB.

MOHAWK RESOURCES LTD.

TITLE 50-26-F (Flush) LIFT DATA TABLE

FROM

DRAWING NUMBER P-010-D-011

D-SIZE

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
WEJ-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 LEVELED 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.

FLUSH LIFTS ONLY

D-SIZE

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.

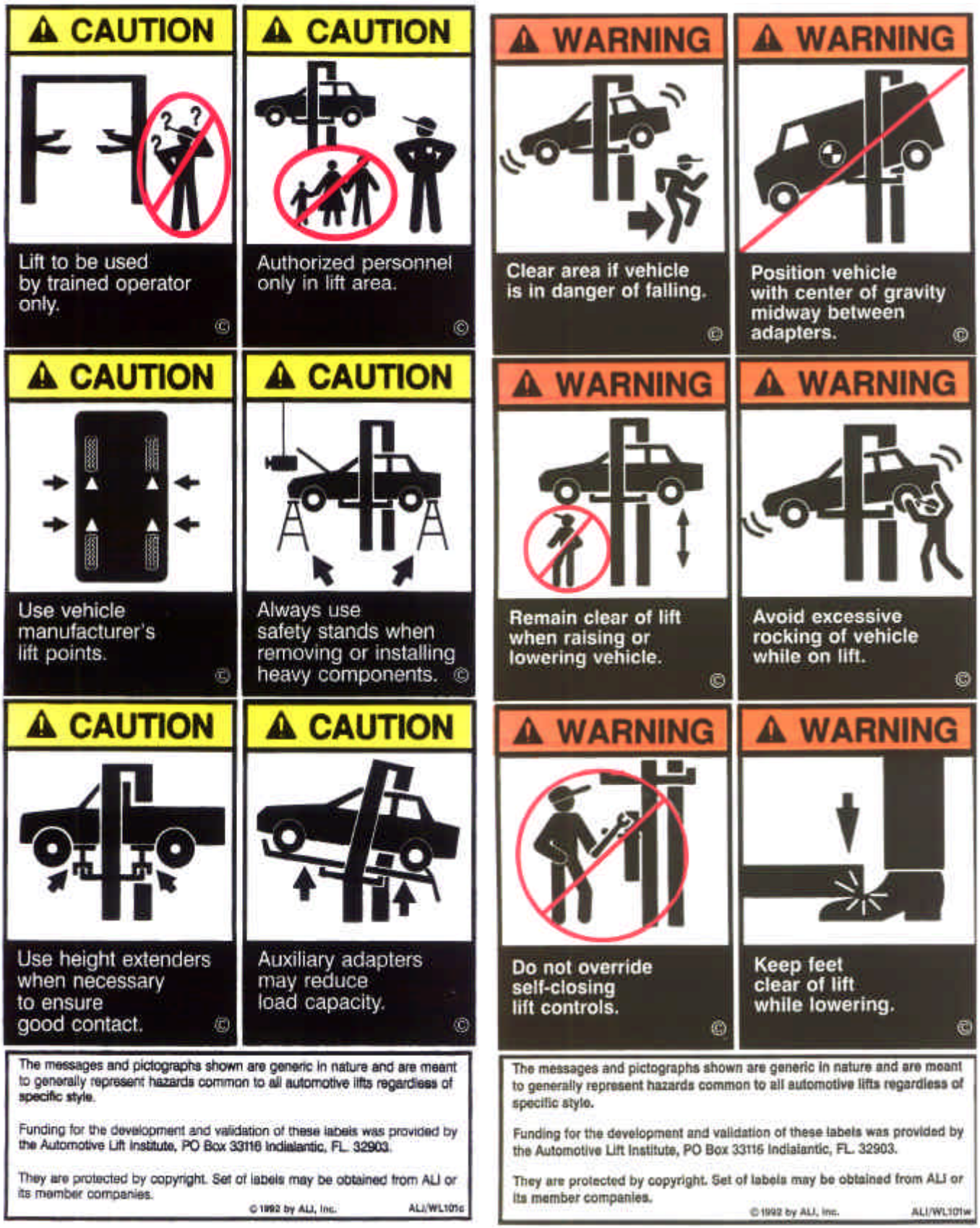
TOLERANCES:
ANGULAR ± 1.°
FRACTIONAL ± .030
DECIMAL:
0.XX ± .030
0.XXX ± .005

FILE NAME P-010-D-012

P-010-A-002

NEXT ASSEMBLY

SCALE	DRAWN rwv7089	MOHAWK RESOURCES LTD.	
CHECKED	APPROVED	TITLE FLUSH INSTALLATION GENERAL NOTES	
DATE 5/03	WEIGHT LB.	FROM	DRAWING NUMBER P-010-D-012


⚠ 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 Indialantic, FL. 32903.
They are protected by copyright. Set of labels may be obtained from ALI or its member companies.
© 1992 by ALI, Inc.
ALI/WL101c
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 Indialantic, FL. 32903.
They are protected by copyright. Set of labels may be obtained from ALI or its member companies.
© 1992 by ALI, Inc.
ALI/WL101w

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 Indialantic. FL 32903

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

 ALI/WL101a

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