

GENERAL NOTES

NOTE 1.
CONCRETE USED FOR THE DRENCH SHALL HAVE A MINIMUM STRENGTH OF $f'_{c}=4,000$ psi AND A MAXIMUM STRENGTH OF $f'_{c}=5,500$ psi WITH HEAVY AGGREGATE.

NOTE 2: CONCRETE USED FOR EACH TRENCH SHALL REACH ITS 28 DAY STRENGTH OF $f'_{c} = 4,000$ psi BEFORE THE HOLES ARE DRILLED AND THE ANCHOR BOLTS INSTALLED.

NOTE 3:
THE CONCRETE REINFORCEMENT SIZES AND REINFORCEMENT SPECIFICATIONS FOR THE SITE WALLS AND BASE
OF THE TRENCHES SHALL BE DETERMINED BY AN ARCHITECT OR ENGINEER AND SHALL BE DETERMINED
CONSIDERING THE SOIL CONDITIONS AT THE SITE AND THE APPLIED LOADING AS A MINIMUM GRADE 60
REINFORCED REINFORCING BARS OF SIZES AND SPACINGS SHOWN IN THE DRAWING SHALL BE USED.

NOTE 4:
THE CONCRETE REINFORCEMENT SPECIFICATIONS FOR THE FLOOR SLAB AROUND THE TRENCH SHALL BE
DETERMINED BY THE ARCHITECT OR ENGINEER AND SHOULD BE DETERMINED CONSIDERING THE SOIL CONDITIONS
AND THE APPLIED VEHICLE LOADING. AS A MINIMUM, GRADE 60-65x 10/10 WELTED WIRE FABRIC SHALL BE
USED AROUND THE VICINITY OF THE LIFE TRENCH. CARE SHOULD BE TAKEN TO AVOID ANCHOR LOCATIONS.

NOTE 5:
THE LIFT UNIT IS SUPPLIED WITH PRE-DRILLED BASE PLATES ON THE LOWER LEG BRACKETS FOR FIELD
DRILLED WEDGE BOLT CONCRETE ANCHORS. THE PRESCRIBED NUMBER OF BOLTS MUST BE INSTALLED.
THE ROTARY LIFT INSTALLATION GUIDE PROVIDES DETAILED INSTRUCTIONS FOR INSTALLING THE LIFT AND
PROPER PROCEDURES TO ACCURATELY LOCATE THE MACHINE IN THE TRENCH.

SPECIFIC ANCHOR BOLTS WHICH ARE APPROVED BY ROTARY LIFT FOR ANCHORING THE LOWER LEG BRACKETS ARE LISTED ON THE APPROVED ANCHOR BOLT DATA SHEET. FOR CHEMICAL ANCHORING CONTACT HEAVY DUTY CUSTOMER SERVICE 800-445-5428.

NOTE 6:
THE REINFORCING STEEL SHALL BE PLACED IN THE BASE SLAB OF EACH TRENCH NOT TO INTERFERE WITH THE ANCHOR BOLTS. THE LIFT IS INSTALLED USING DRILLED IN PLACE WEDGE BOLT CONCRETE ANCHORS. THE LOCATION OF THE BOLTS ARE SHOWN IN THE FOOTPRINT BOLT PATTERN DETAIL.

NOTE 7:
FOR PROPER LIFT OPERATION THE LIFT PLATFORMS SHOULD BE INSTALLED LEVEL THEREFORE, THE BASE OF THE TRENCH SHOULD BE FASHIONED ACCORDINGLY. IF SHIP FLOOR SLOPE IS REQUIRED AROUND THE TRENCHES FOR DRAINAGE, PROVIDE THE SLOPE IN SUCH A WAY THAT THE IMMEDIATE AREA OF THE FLOOR WILL BE LEVEL OVER THE FULL LENGTH OF THE TRENCH

NOTE B:
SLOPE THE BASE OF THE TRENCH 1/16 INCH PER FOOT TOWARD THE DRAIN CHANNEL. ALSO, SLOPE THE BASE OF THE DRAIN CHANNEL 1/16 INCH PER FOOT TOWARD THE FLOOR DRAIN AREAS OF THE TRENCH BASE WHERE THE LOWER LEG BRACKET BASE PLATES MAKE CONTACT SHOULD NOT BE SLOPED.

NOTE 9:
CARE MUST BE TAKEN TO ENSURE THE PROPER ELEVATION OF THE TRENCH BASE IN THE VICINITY OF THE LOWER LEG BRACKET BASE PLATES. A MAXIMUM OF ONE INCH ADJUSTMENT IS PROVIDED IN THE LIFT DESIGN TO ENSURE A FLUSH INSTALLATION. THIS ADJUSTMENT IS ALSO PROVIDED TO ACCURATELY LEVEL THE LIFT FROM END TO END.

NOTE 10
THE CONTROL PANEL MUST BE LOCATED IN THE IMMEDIATE VICINITY OF THE LIFT IT SHOULD BE PLACED FAR ENOUGH AWAY TO ALLOW AMBLE WORK SPACE AROUND THE LIFT AND TO ALLOW FOR WHEEL REMOVAL AND OTHER ACTIVITIES THE CONTROL PANEL MAY BE ON ANY SIDE OR AT EITHER END OF THE LIFT

NOTE 11:
PROVIDE ONE 4 INCH SCH 40 PIPE AS A HYDRAULIC SERVICE SUPPLY CONDUIT RUNNING FROM THE CONTROL PANEL TO EACH PLATFORM SERVICE LEG AT THE LOCATION SPECIFIED IN THE PLAN VIEW. A MAXIMUM OF THREE 90 DEGREE ELBOWS MAY BE USED. THE ELBOW FITTINGS SHOULD BE STREET ELBOWS WITH WIDE BEND RADIIUS TO ALLOW THE PULLING OF HYDRAULIC HOSES.

NOTE 12:
PROVIDE TWO (2) 1" RIGID CONDUITS PER LEG AS A SERVICE SUPPLY CONDUITS RUNNING FROM THE
CONTROL PANEL TO THE SERVICE LEG LOCATIONS SPECIFIED ON THE PLAN VIEW. THESE CONDUITS SHOULD BE
INSTALLED ACCORDING TO ALL LOCAL AND NATIONAL ELECTRICAL CODES. A MAXIMUM OF FOUR 90 DEGREE
BENDS MAY BE USED IN EACH RUN.

NOTE 13-
PROVIDE TEMPORARY PLUGS OR CAPS FOR ALL SERVICE CONDUIT OPENINGS.

NOTE 14:
A 6 INCH DRAIN PIPE SHOULD BE PROVIDED TO CARRY DRAINAGE FROM THE FLOOR DRAINS TO AN OIL-WATER SEPARATOR. FLOOR DRAIN TRAPS SHOULD BE USED AND THE PIPE SHOULD SLOPE 1/8 INCH PER FOOT TOWARDS THE SEPARATOR.

NOTE 15:
TWO CONDUITS MAY BE PROVIDED UNDER THE FLOOR RUNNING FROM THE BUILDING POWER SUPPLY TO THE CONTROL PANEL LOCATION ONE CONDUIT MAY BE USED FOR POWER SUPPLY AND ONE MAY BE USED FOR SHOP AIR SUPPLY. ALTERNATIVELY THESE SUPPLY CONDUITS MAY BE BROUGHT TO THE CONTROL PANEL LOCATION OVERHEAD. THESE CONDUITS SHOULD BE INSTALLED IN ACCORDANCE WITH ALL LOCAL AND NATIONAL CODES.

A FUSED ELECTRICAL DISCONNECT AND AN AIR FILTER/REGULATOR/LUBRICATOR (FRL) ARE REQUIRED AT THE CONTROL CONSOLE FOR THE SMOOTHER POWER AND AIR. THESE ARE TO BE SUPPLIED BY THE GENERAL CONTRACTOR.

NOTE 16:
A FUSED ELECTRICAL DISCONNECT FOR THE CONTROL SYSTEM POWER SUPPLY SHALL BE PROVIDED BY THE
GENERAL CONTRACTOR

NOTE 17:
AIR CONSUMPTION REQUIREMENTS INDICATED BY TABLE 3 IS FOR THE LIFT UNIT OPERATION ONLY. IF THE
OPTIONAL SHOP AIR KIT IS INSTALLED ON THE LIFT IT MUST BE CONSIDERED IN THE TOTAL AIR CONSUMPTION
REQUIREMENTS. ALSO, EACH OPTIONAL ROLLING JACK CONSUMES 20 CFM AND REQUIRES 100 PSI MINIMUM
OPERATING PRESSURE.

NOTE: 18
CONTACT ROTARY LIFT FOR APPROVAL PRIOR TO INSTALLATION OF ANY BEVADATIONS FROM THE REQUIREMENTS
LISTED IN THIS DOCUMENT

NOTE: INTRINSICALLY SAFE CONTROL WIRING MUST BE SEPERATED FROM NON-INTRINSICALLY SAFE WIRES BY A MINIMUM OF 2 INCHES.

NOTE 20
WHEN WIRING REMOTE CONSOLE FOR WASHWAY APPLICATION, IF THE REMOTE CONSOLE WILL BE EXPOSED
TO WATER SPRAY, NEMA 4 CONDUIT AND FITTINGS ARE TO BE USED.

NOTE 2:
WHEN USING AS A WASHBAY LIFT, THE MAIN P/V CONSOLE MUST BE LOCATED OUTSIDE OF THE WASHBAY,
AWAY FROM ANY WATER SPRAY. THE CONSOLE MAY BE PROTECTED FROM DIRECT SPRAY BY MEANS OF SHIELD
OR VALVE A BARRIER PANEL IS REQUIRED FOR ALL CLASS STANDARDS. SEE INSTALL INSTRUCTIONS FOR DETAILS.

NOTE: 22
DIMENSIONS MARKED WITH * CAN BE REDUCE
BY UP TO 10% IF DESIRED

NOTES: TYPICAL COORDINATE
DRAWING. CONSULT LATEST REVISION
CONSULT POTARY LIT. PRIOR TO INSTALLATION TO
OBTAIN LATEST REVISION

A	H2O/EA	12.18.18	4K/104K
-	6amin+1.2	4-11.19	2K/102K
Ag+	CO ₂ /Mg	DMS	BY



NORTH AM WORLD HEADQUARTERS
 2700 LAFAYETTE DRIVE
 WASHINGTON, DC 20004
 TEL: (202) 974-1000
 300 MILES

PROJECT NAME

GENERAL NOTES
SURFACE MOUNTED

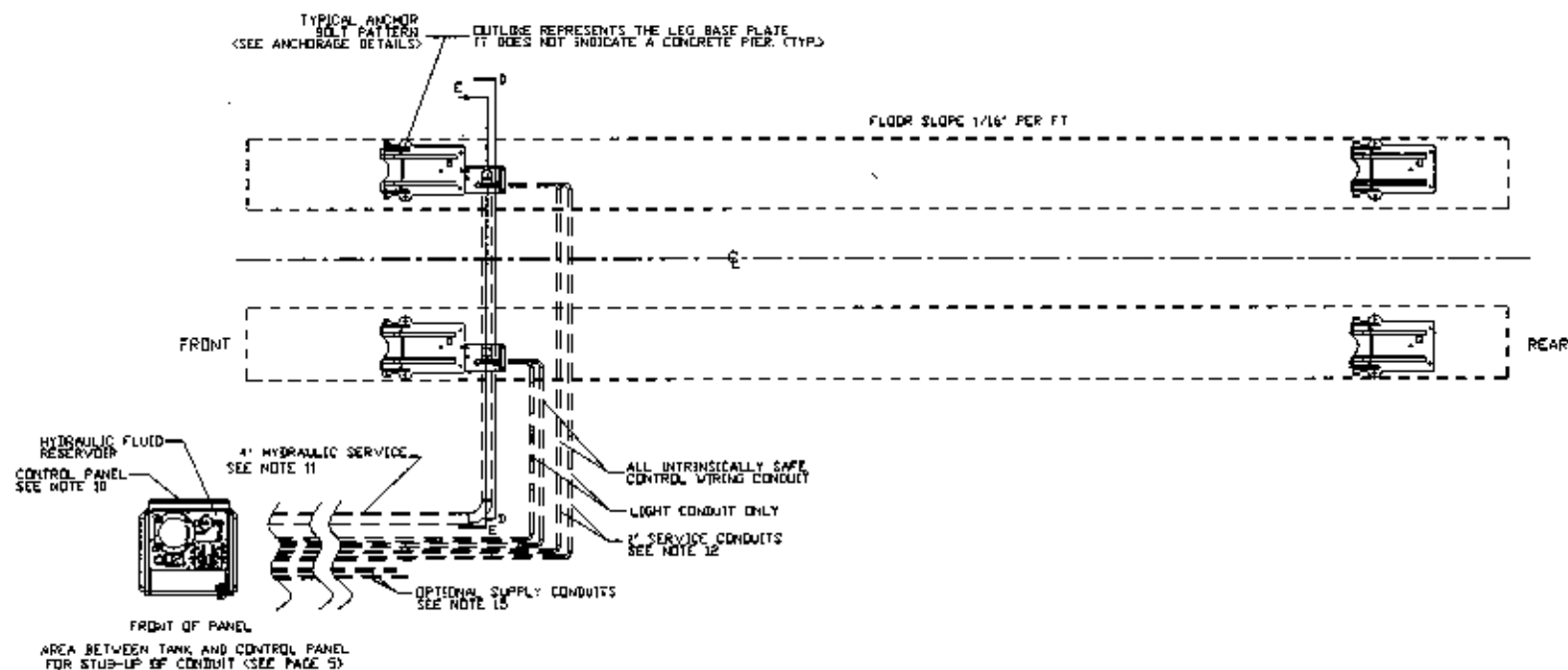
INDEXED
SPEC0426-4

4.10.19

LYONE

4 OF 18

1



NOTES: TYPICAL EQUIPMENT
FOUNDATION REQUIREMENTS (CER)
CONSULT SUPPLY LIST PRIOR TO INSTALLATION TO
CONFIRM LATEST REVISION

READ MOVIES PAGE THOROUGHLY BEFORE STARTING PROJECT
THIS EQUIPMENT IS DESIGNED TO BE USED IN A MANNER
WHICH IS NOT IN ACCORDANCE WITH THE INSTRUCTIONS
THE PROPERTY OF ROTARY IS BEING USED IN A MANNER
NOT WITH THE EXPRESS PERMISSION THAT IT WILL NOT BE
DUPLICATED OR USED EXCEPT BY PERMISSION AND IS
SUBJECT TO RETURN UPON REQUEST

A	QTY	DATE	BY
1	1000000	1/10/18	MP/SGP
REV	CO	DATE	BY



ROTARY LIFT WORLD HEADQUARTERS
2100 SOUTH 5TH
MUSKOGEE, AL 36502
www.rotarylift.com
800-445-5438

PROJECT NAME

VIEW: 1/4" AS PLAN VIEW
VIEW: 3/4" AS PLAN VIEW

DATE: 4.10.19	5 OF 18
NAME: NONE	

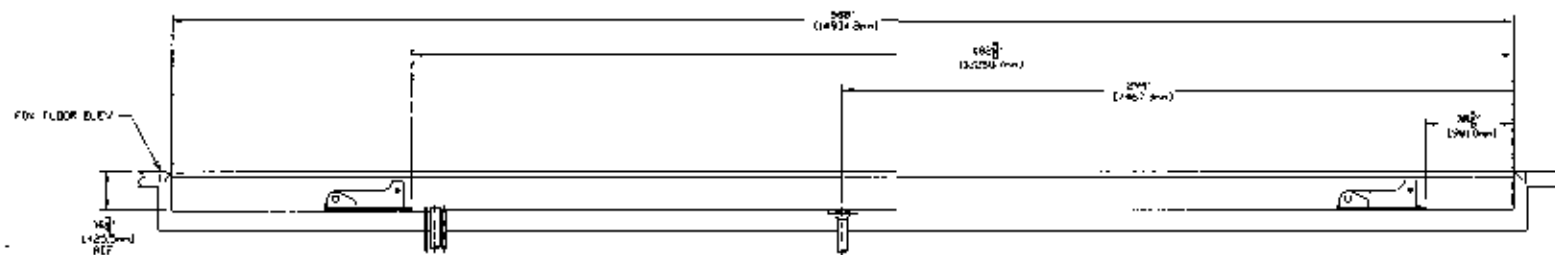
Figure 1 is a technical drawing titled "Typical Runway Layout". It shows a side view of a runway system with two parallel tracks. The top track is labeled "RUNWAY OUTLINE" and the bottom track is labeled "RUNWAY D.L. LINE". Various components are labeled with letters and numbers, including "TYPICAL ANCHOR", "DRAIN LINE", "FRONT", "REAR", and "CONTROL PANEL". A detailed view of the control panel is shown at the bottom left, labeled "CONTROL PANEL SEE NOTE 12". The diagram includes numerous dimension lines and callouts for specific parts and services.

N	1975/6	1976/7	1977/8
n	1978/9	1979/80	1980/81
1981	1981/82	1982	83

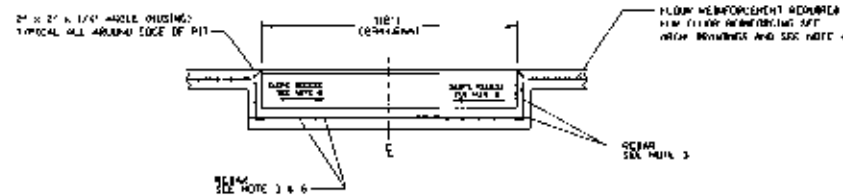
PROJECT NAME

WITH 64/48 PLAN VIEW
VTEC 80/48 PLAN 0.5W

SPFC0426-6 4.10.13 NONE	8 OF 8
-------------------------------	--------



SECTION A-A



SECTION B-B

Copyright Notice

NOTES: TYPICAL EQUIPMENT
FOUNDATION REQUIREMENTS (ETRY)
CONSULT POTARY LIFT PRIOR TO INSTALLATION TO
CONFIRM LATEST REVISION
SEAD NOTES PAGE THOROUGHLY BEFORE STARTING PROJECT
THE DESIGN AND ILLUSTRATED IN THIS DRAWING IS
THE PROPERTY OF POTARY LIFT. IT IS TO BE USED ONLY
WITH THE EXPRESSED PERMISSION THAT IT SHALL NOT BE
DUPLICATED OR USED EXCEPT BY PERMISSION AND IS
SUBJECT TO RETURN UPON REQUEST

REV	NO	DATE	BY
1	00000	12/10/10	UN/10/10
2	00000	12/10/10	UN/10/10
3	00000	12/10/10	UN/10/10



POTARY LIFT WORLD - HEAD OFFICE
2700 LINDEN DRIVE
HARRISBURG, PA 17120
WWW.POTARYLIFT.COM
800.443.8408

PROJECT NAME

AREA: 54/48 BODIES
VOLUME: 80/48 BODIES
CROSS SECTION

Specified by

SPEC0426-9

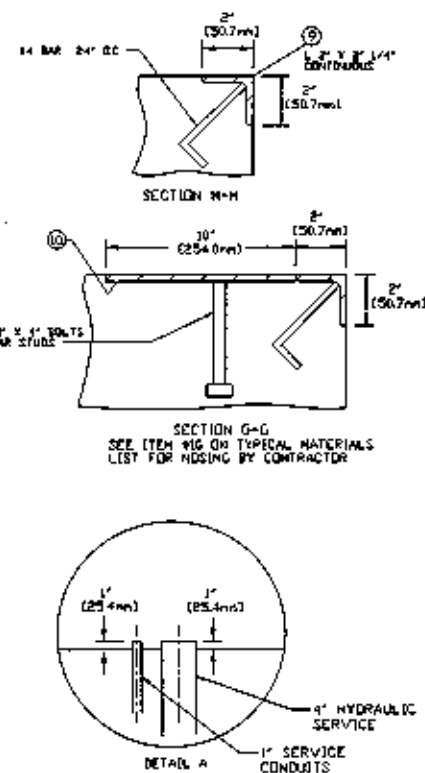
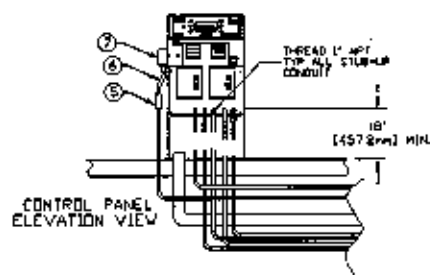
Rev

4.10.19

Date

NONE

9 OF 18



NOTES: TYPICAL COLUMN
FOUNDATION REQUIREMENTS (REF)
CONSULT ROTARY LIFT PRIOR TO INSTALLATION TO
CONFIRM GALLEY DESIGN

A	10/11/12	12/1/13	12/1/13
-	10/11/12	12/1/13	12/1/13
REV	DO NAME	DATE	BY



RELIEF LIFE WORLD MISSIONARIES
2300 JAMES OWEN
MASTON, FL 32250
www.relieflife.com
(888) 645-1443

PROJECT NAME

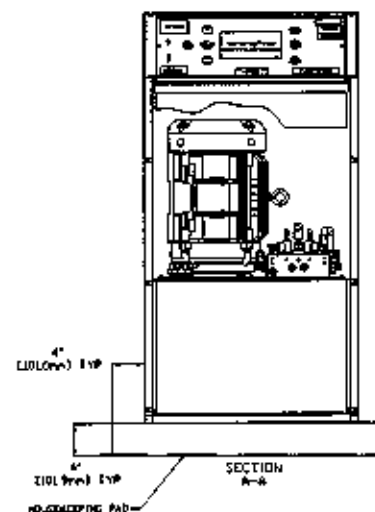
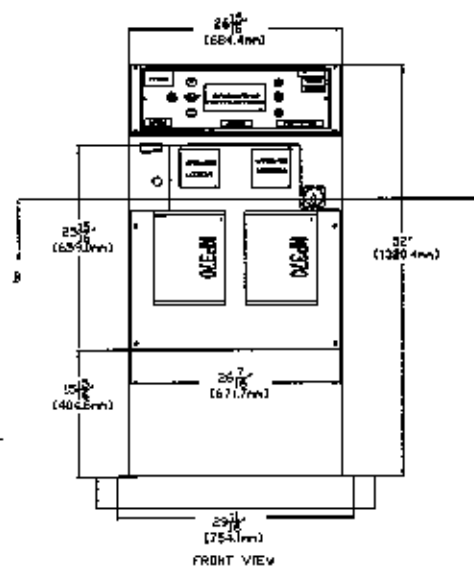
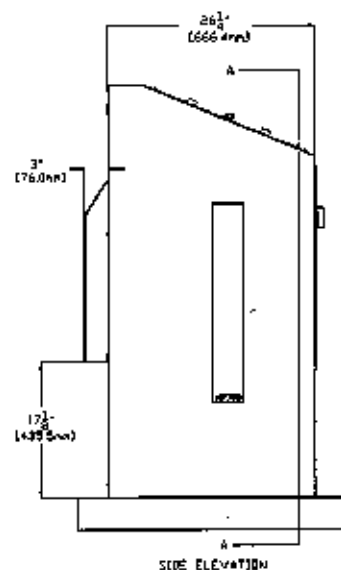
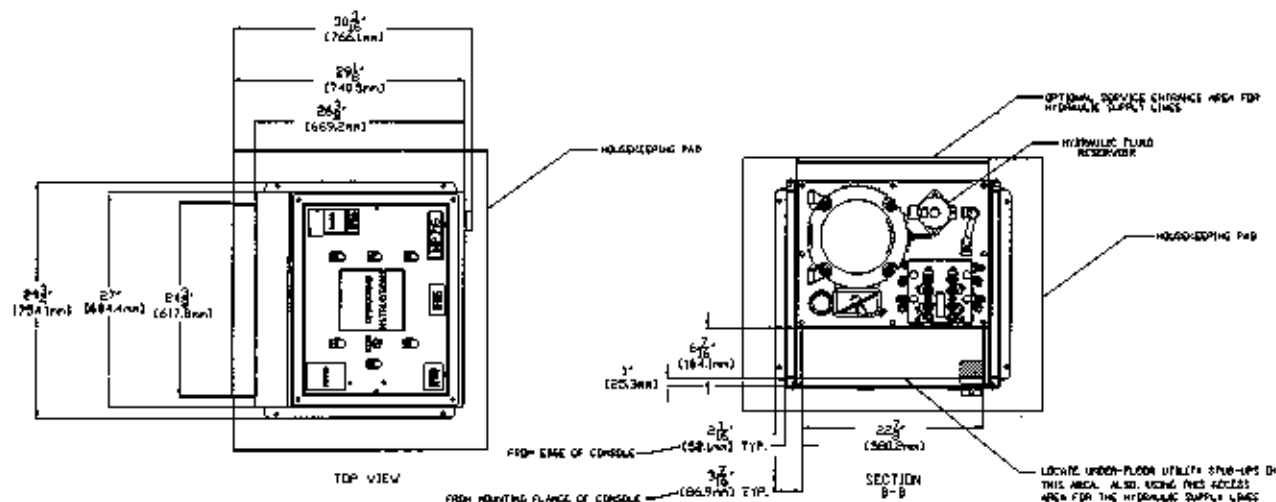
FIGURE 10
UNDER-FLOOR SERVICES
SECTION AND DETAILS

SPEC 0428-12

4.10.19

☐ NONE

12 OF 18



General Note

NOTES: TYPICAL EQUIPMENT FOUNDATION REQUIREMENTS (SEE) CONSULT ROTARY LIFT PRIOR TO INSTALLATION TO OBTAIN LATEST REVISION

READ NOTES PAGE INDIVIDUALLY BEFORE STARTING PROJECT. DEAD WEIGHTS AND ACTUAL WEIGHTS MUST BE DETERMINED. THE DESIGNER MAKES NO WARRANTY AS TO THE ACCURACY OF THE INFORMATION PROVIDED. THE PROPERTY OF ROTARY LIFT IS NOT BEING LOANED WITH THE EXPRESSED CONDITION THAT IT WILL NOT BE REPRODUCED OR USED EXCEPT BY PERMISSION AND IS SUBJECT TO RETURN UPON REQUEST.

A	10/24	12/24	12/24	12/24
B	10/24	12/24	12/24	12/24
C	10/24	12/24	12/24	12/24
D	10/24	12/24	12/24	12/24

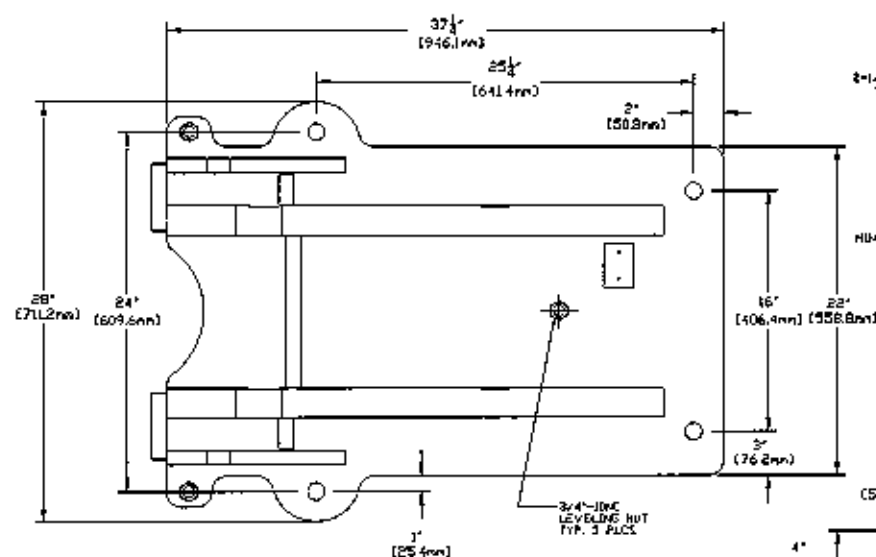
Rotary Lift

2101 W. 10th Street, Suite 100
 2100 LAMAR DRIVE
 WICHITA, KS 67201
 www.rotarylif.com
 913.445.6438

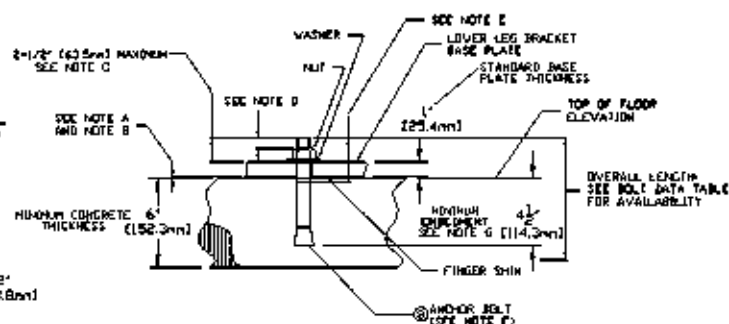
PROJECT NAME

CONTROL CONSOLE DETAILS

Spec 0428-13 Rev 13 OF 18
 4.10.19
 NONE

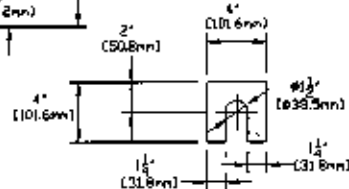


**BOLT PATTERN 1" ANCHORS
FLUSH/SURFACE IN RECESS**



**ANCHOR BOLT
DETAIL**

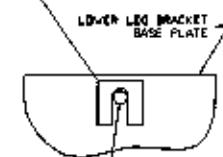
FOR NOTES SEE APPROVED ANCHOR BOLT DATA
AND TORQUE SPECIFICATIONS SHEET



**FINGER SHIM
DETAIL**

NOTE:
FINGER SHIMS ARE AVAILABLE IN A RANGE OF
THICKNESSES FROM 1/4" DOWN TO .001 GA

PLACE FINGER SHIMS IN A STRAIGHT AND
ARRANGED FASHION AT EACH ANCHOR BOLT
ON ALL LOWER LEG BRACKETS. USE THIN
SHIMS TO FULLY SHIM OUT EACH BOLT.



**TYPICAL ANCHOR BOLT LOCATION
DETAIL**

NOTE:
THE MAXIMUM HEIGHT OF ANY STACK OF FINGER
SHIMS IS 1 INCH

General Notes

NOTES: TYPICAL EQUIPMENT (EP) FOUNDATION REQUIREMENTS (EP) CONSULT ROTARY LIFT PRIOR TO INSTALLATION TO CONFIRM LATEST REVISION

READ NOTES PAGE THOROUGHLY BEFORE STARTING PROJECT. THE DESIGN AND DETAILS ILLUSTRATED IN THIS MANUAL ARE THE PROPERTY OF ROTARY LIFT. IT IS TO BE USED WITH THE EXPRESS CONDITION THAT IT WILL NOT BE REPRODUCED OR USED EXCEPT BY PERMISSION AND IS SUBJECT TO RETURN UPON REQUEST.

A	REV	DATE	BY	CHKD	APP'D
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					

Rotary Lift

ROTARY LIFT WORLD HEADQUARTERS
2000 LAMAR DRIVE
WOODBRIDGE, NJ 07095
www.rotaryliftdesign.com
800.448.2400

PROJECT NAME

ANCHORAGE DETAILS

SPEC0428-14

Rev 4.10.19

14 OF 18

STANDARD ANCHOR BOLT DIMENSIONS

RAWL CATALOG NUMBER	HILTI CATALOG	OVERALL LENGTH	MAXIMUM SHIM THICKNESS
7462	286079	3" (76.2mm)	2-1/4" (57.15mm) (SEE NOTE A)
7465	286079	3" (76.2mm)	4" (101.6mm) (SEE NOTE A&B)

NUTS AND WASHERS ARE SUPPLIED WITH ALL ANCHOR BOLTS

APPROXIMATE NUT DIMENSIONS

NUT SIZE	WIDTH ACROSS FLATS	HEIGHT
1" (25.4mm)	1-1/2" (38.1mm)	55/64" (21.6mm)

APPROXIMATE WASHER DIMENSIONS

WASHER SIZE	INSIDE DIAMETER	OUTSIDE DIAMETER	THICKNESS
1" (25.4mm)	1-1/8" (28.6mm)	2-1/2" (63.5mm)	8/32" (1.57mm)

NOTE A:
THIS DIMENSION REPRESENTS THE SHIM THICKNESS. THE MAXIMUM FINGER SHIM THICKNESS IS 1" (25.4mm). WHEN MORE THAN 1" (25.4mm) SHIM THICKNESS IS REQUIRED AT ANY ONE OR MORE ANCHOR BOLT OR ANY ONE OR MORE LOWER LEG BRACKET THEN A SPECIAL FULL SIZE CONTACT SHIM IS REQUIRED. THE FULL SHIM IS AVAILABLE BY ROTARY LIFT AND IS DESIGNED IN SUCH A WAY AS TO PREVENT BENDING OF THE ANCHOR BOLT GROUP.

NOTE B:
WHEN MORE THAN 4" (101.6mm) OF SHIM THICKNESS IS NEEDED, A SPECIAL SITE SPECIFIC ANCHORAGE DESIGN IS REQUIRED. CONTACT ROTARY LIFT, ENGINEERING GROUP FOR ASSISTANCE IN THIS CASE.

NOTE C:
IN CERTAIN CIRCUMSTANCES THIS DIMENSION WILL NEED TO BE LIMITED TO A MAXIMUM OF 2-1/2" (63.5mm) TO AVOID INTERFERENCE WITH THE PLATFORM TUBE MEMBERS AND THE TAPE SWITCH RUNNING THE LENGTH OF THE PLATFORM. IF ANCHOR BOLTS EXTEND ABOVE 2-1/2" (63.5mm) THEN IN THOSE CASES THEY NEED TO BE CUT TO LENGTH AFTER INSTALLATION.

NOTE D:
USE MINIMUM 3/4" (19.05mm) BOLT LENGTH BEYOND THE NUT ON ALL LOWER LEG BRACKETS. THIS WILL YIELD A MINIMUM OF 1/2" (12.7mm) BOLT LENGTH AT THE SERVICE BRACKET ATTACHMENT. THIS PROCEDURE WILL PROVIDE ADEQUATE LENGTH THROUGHOUT.

NOTE E:
THE THREAD LENGTH FOR 1" (25.4mm) DIAMETER RAWL BOLTS VARIES. HOWEVER THE MINIMUM THREAD LENGTH IS 3-3/8" (89.5mm). THE THREAD LENGTH FOR 1" (25.4mm) DIAMETER HILTI BOLTS VARIES. HOWEVER THE MINIMUM THREAD LENGTH IS 6" (152.4mm). THE STANDARD OVERALL LENGTH IS MEASURED FROM EXTREME END TO END.

NOTE F:
THE REPAIR OF DAMAGED OR MISS-ALIGNED ANCHOR BOLTS SHALL BE MADE ACCORDING TO THE WRITTEN PROCEDURE FOR REMOVAL, REPAIR, AND/OR RELOCATION OF EXPANSION WEDGE BOLT CONCRETE ANCHORS. THIS PROCEDURE IS AVAILABLE FROM ROTARY LIFT, ENGINEERING GROUP.

NOTE G:
THE EMBEDMENT DEPTH IS DEFINED AS THE DISTANCE FROM THE SURFACE OF THE CONCRETE TO THE EXTREME BOTTOM OF THE ANCHOR BOLT PRIOR TO APPLYING THE INSTALLATION TORQUE. IT IS NATURAL FOR THE ANCHOR TO BE PULLED UP SLIGHTLY DUE TO THE SETTING ACTION OF THE ANCHOR.

APPROVED ANCHOR BOLT LIST

ANCHOR BOLTS WHICH ARE APPROVED FOR USE ARE:

1. POWER-STUD
CARBON STEEL OF THE DIAMETER SIZE SHOWN IN TABLE 1.
MANUFACTURED BY:

THE RAWLPLUG COMPANY, INC.
NEW ROCHELLE
NEW YORK, 10802
TELEPHONE NUMBER 914-235-6300

LOAD CAPACITY OF POWER-STUD ANCHORS ARE LISTED IN INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS REPORT NO. 5225 AND FOR 1" DIAMETER BOLTS LOAD CAPACITY IS LISTED IN SUMMARY REPORT BY C.T. ENGINEERING REPORT NUMBER SR17 DATED OCTOBER 31, 1995.

2. HILTI, INC.
CARBON STEEL OF THE DIAMETER SIZE SHOWN IN TABLE 1.
MANUFACTURED BY:

HILTI, INC.
3400 S. 182 E. AVENUE
TULSA, OK 74146
TELEPHONE NUMBER 1-800-879-8000

LOAD CAPACITY OF KWIK BOLT 3 ARE LISTED IN ICC REPORT NO. ESR-1385

NO SUBSTITUTIONS SHALL BE MADE UNLESS PRIOR WRITTEN APPROVAL HAS BEEN GRANTED BY ROTARY LIFT, ENGINEERING SUPPORT GROUP ON A SPECIFIC LIFT INSTALLATION. THIS APPROVAL WILL ONLY BE GRANTED ON A CASE BY CASE BASIS. USE OF ANCHOR BOLTS WHICH ARE NOT APPROVED MAY NOT HAVE THE DOCUMENTED LOAD-CARRYING CAPACITY TO WITHSTAND THE FORCES EXERTED ON THE ANCHORAGE AND MAY, THEREFORE, NOT MEET THE REQUIREMENTS OF THE AUTOMOTIVE LIFT INSTITUTE CERTIFICATION CRITERIA.

1" [25.4mm] ANCHORS

Good Idea

NOTES: TYPICAL EQUIPMENT
FOUNDATION REQUIREMENTS (OFF)
CONSULT ROTARY LIFT PRIOR TO INSTALLATION TO
OBTAIN LATEST REVISION
READ NOTES PAGE THOROUGHLY BEFORE STARTING PROJECT
THIS DESIGN AND INSTALLATION IS BASED ON THE ASSUMPTION
THE PROPERTY OF ROTARY LIFT. IT IS NOT TO BE REPRODUCED
WITH THE EXPRESS CONDITION THAT IT WILL NOT BE
REPRODUCED OR USED EXCEPT BY PERMISSION AND IS
SUBJECT TO RETURN UPON REQUEST

A	NAME	IS/REV	DATE	BY	CHKD
-	REVISION	DATE	BY	CHKD	
REV	ED	NAME	DATE	BY	

Rotary Lift
ROTARY LIFT WORLD HEADQUARTERS
2700 LAMAR DRIVE
WILSON, N.C. 27150
WWW.ROTARYLIFT.COM
800.445.6430

PROJECT NAME

APPROVED AND/OR BOLT DATA
AND TORQUE SPECIFICATIONS

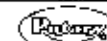
SPECIFICATION
SPEC0426-15
4.10.19
NONE

15 OF 18

TABLE DVC	64'49' SERIES	80'49' SERIES	NOT BE SUPPLIED BY GENERAL CONTRACTOR			
			TYPICAL MATERIAL LIST 64K, 80K, 48' LENGTH SURFACE LIFT			
			ITEM	QTY	DESCRIPTION	DESCRIPTION
LIFT UNIT DATA						
MAXIMUM LOAD CAPACITY (LBS)	64,000	80,000	2K	AR	4" SCH 40 PIPE	PVC or STEEL
SHIPPING WEIGHT (LBS) EACH RUNWAY	11,000	11,500	3K	AR	4" SCH 40 SWEET ELBOW	PVC or STEEL
ANCHORAGE			4K	AR	1" RMC CONDUIT	STEEL
ANCHOR BOLT DIAMETER	1"	1"	5K	AR	1" SEA BARRIER	STEEL
NUMBER OF BOLTS PER LEG	2	4	6K	AR	SEALITE FLEXIBLE CONDUIT	STEEL
INSTALLATION TORSION (FT-LBS)	150	150	7K	L	4 X 4 X 1/4 NEMA 12 JUNCTION BOX	STEEL
ANCHOR STATIC INSPECTION (INCH) (C-1-LBS)	30	30	8K	1K	1" ANCHOR BULBS	STEEL
MINIMUM EMBEDMENT LENGTH (IN)	4-1/2"	4-1/2"				
MINIMUM CONCRETE THICKNESS (IN)	6"	6"				
HYDRAULIC			ITEM	QTY	DESCRIPTION	DESCRIPTION
HYDRAULIC CYLINDER DIA. (IN)	7"	7"	1K	AR	4" SCH 40 PIPE	PVC or STEEL
RESERVOIR CAPACITY (GAL)	27	25	2K	AR	4" SCH 40 SWEET ELBOW	PVC or STEEL
OIL TYPE	ISO90 CR AW38	ISO90 CR AW32	3K	AR	4" SCH 40 TEE	PVC or STEEL
ELECTRICAL			4K	AR	1" RMC CONDUIT	STEEL
MOTOR HORSEPOWER	20	20	5K	AR	1" SEA BARRIER	STEEL
208/230V, 3PH, MOTOR (FLA)	50/45	57/52	6K	AR	SEALITE FLEXIBLE CONDUIT	STEEL
DR 460V 3PH, MOTOR (FLA)	22	22	7K	L	4 X 4 X 1/4 NEMA 12 JUNCTION BOX	STEEL
DR 575V 3PH, MOTOR (FLA)	10	20	8K	1K	1" ANCHOR BULBS	STEEL
CONTROLS			9K	AR	1/2 X 2 X 1/4 WITH ANCHORAGE	ASTM A36 PAINTED REIN
OPTIONAL LIGHT PACKAGE	5 KITS	5 KITS	10K	4	1/4 X 6 X 3/4 PLATE WITH ANCHORAGE	ASTM A36 PAINTED REIN
120V 3PH SEE NOTE 10			11K	L	FLOOR DRAIN TAP	8" STRAINER
SHOP AIR						
AIR PRESSURE (PSI)	90-110	90-110				
AIR VOLUME (CFM), LIFT ONLY, SEE NOTE 12	5	5				
AIR VOLUME (CFM) PER ROLLING JACK, SEE NOTE 13	20	20				

NOTES: TYPICAL EQUIPMENT:
CONCRETE: CONCRETE REQUIREMENTS (FRI)
CONCRETE: ROTARY LIFT METHOD TO INSTALLATION
CONCRETE: LATERAL SECTION

A	ENTERED	DATE	A/B-B
-	ENTERED	DATE	A/B-B
NEW	FOR NEW	DATE	BY



PETER J. BROWN, HONORARY CHAIRMAN
 2700 LAMAR DRIVE
 MADISON, WI 53704
 www.peterbrown.com
 608.261.5418

SUBJECT NAME

LIFE WITH SPLEEN AND PANCREAS
LAB. LIME AND MATERIAL COSTS

SFEC0426-16

24:13

☐ NONE

16 OF 28

Instructions to Installers of Rotary Vertical Rise Lift

EQUIPMENT DESCRIPTION

(By Rotary Lift: how it functions, what its capacity is, features, etc.)

PROJECT DESCRIPTION

This lift may be installed in a new construction or a retrofit environment. These instructions are tailored specifically to a retrofit installation, though the procedures would be similar in either environment. The installer is responsible to adapt these instructions to the site-specific installation and conditions. Any questions concerning the adaptation should be addressed to Rotary Lift Tech Support.

This "Project" entails the following scope of work:

- Examination of the existing site to confirm that the soil condition is adequate to support the necessary loading.
- Determination of whether there are any underground or overhead utilities that might interfere with the construction or use of the lift.
- Layout, saw-cutting and demolition of the existing concrete flooring for recess and flush mounting. Slab thickness will vary from site to site.
- Epoxy-anchoring Key and dowel the new slab to the existing slab-on-grade.
- Making necessary electrical connections and placing the control console.

SCOPE OF WORK

- Before beginning any work, become thoroughly familiar with the installation requirements. Have lift components and rebar on site before opening slab or trench to minimize time the trench must be left open.
 - Confirm that permitting is not required by the local Building Official having jurisdiction over this installation location.
- Perform a pre-construction kick-off meeting with the Owner to review the following, prior to commencement of work:
 - Review assumptions and procedure for communicating any deviations between the unforeseen existing conditions and the assumptions.
 - Coordinate with Owner where debris and/or dumpsters can be stored.
 - Review construction schedule.
 - Review safety protocols.
 - Review how the construction process will impact existing/adjacent operations (if any).
- Layout lines for placement of lift. Determine where control console is to be placed. Layout lines for trench for control conduits.
- Use ground penetrating radar or other means to determine whether there are any underground utilities or obstructions in the layout area. If anything is identified under the proposed slab cut out area, contact Rotary Lift Technical support for additional information.
- Confirm that soil bearing capacity is at least 3000 #/sq.

- Saw cut and remove areas of concrete slab using wet saw equipment, including trench for control conduits. Control slurry runoff and clean area after cutting, do not allow slurry to run into drainage systems. Avoid overcutting as much as possible and repair any overcuts that are necessary. Cut slab into panels of sizes that can be lifted safely. Do not break slab in place to avoid disturbing the sub grade stone compaction and minimize dust.
- Ensure grade compaction under proposed slab / foundation.
- Drill existing slab for dowels according to the drawings. Place rebar according to the drawings, epoxy the dowels into the existing slab.
- Run conduits for control console.
- Place and finish concrete slab/foundation mat according to the drawings. Match finish of adjacent existing slab floor.
- Place control console and make all necessary connections to provide a complete operational unit.
- Start-up and ensure proper function of equipment.

General Notes

NOTES: TYPICAL EQUIPMENT (OFF)
FOUNDATIONS REQUIREMENTS (OFF)
CONSULT ROTARY LIFT PRIOR TO INSTALLATION TO
OBTAIN LATEST REVISION

READ NOTES PAGE THOROUGHLY BEFORE STARTING PROJECT
THE DESIGN AND DETAIL ILLUSTRATED IN THIS DRAWING IS
THE PROPERTY OF ROTARY LIFT. IT IS BEING LOANED
WITH THE EXPRESS CONDITION THAT IT WILL NOT BE
DUPLICATED OR USED EXCEPT BY PERMISSION AND IS
SUBJECT TO RETURN UPON REQUEST.

A	1/2" DIA	12" DIA	24" DIA		
	1/2" DIA	1/2" DIA	1/2" DIA		
REV	00	01	02	03	04

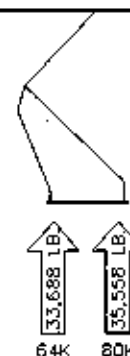
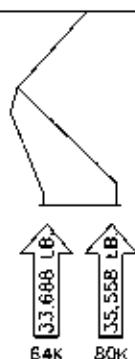


PROJECT NAME

INSTALLERS SCOPE OF WORK

Rev: 4.10.1B
NONE

17 OF 18



NOTES:

THE FORCES SHOWN ARE PEAK FORCES FOR VARIOUS LIFT CONDITIONS AND RISE HEIGHTS.

THE FORCES SHOWN ARE PEAK FORCES AND THEREFORE ARE NOT EQUILIBRIUM WITH THE APPLIED LOADS

FOUNDATION REQUIREMENTS ARE TO BE DESIGNED TO TAKE PEAK FORCES AT EVERY LEG DUE TO VARIABLE LOADING CONDITIONS. ABOVE DIAGRAM DEPICTS ONE TYPE OF LOADING CONDITION. FOR REFERENCE ONLY.

NO SAFETY FACTORS HAVE BEEN APPLIED TO THE FORCES SHOWN.

THE LOCATION OF EXPANSION JOINTS IN THE EXISTING FLOOR SYSTEM SHOULD BE CONSIDERED IN LOCATING THE LIFT UNIT. NONE OF THE LOWER LEG BRACKETS SHALL BE PLACED OVER AN EXPANSION JOINT. ALSO NONE OF THE LOWER LEG BRACKETS SHALL BE PLACED CLOSER THAN 12.5 INCHES TO AN EXPANSION JOINT OR ANY FREE EDGE OF THE SLAB. THE LOCATION OF CONSTRUCTION JOINTS IN THE FLOOR SYSTEM IS GENERALLY OF NO CONCERN PROVIDED THAT THE AREA IS IN GOOD CONDITION.

NOTES: TYPICAL EQUIPMENT FOUNDATION REQUIREMENTS (EFR) CONSULT ROTARY LIFT PRIOR TO INSTALLATION TO OBTAIN LATEST REVISION

READ NOTES PAGE THOROUGHLY BEFORE STARTING PROJECT. THIS DOCUMENT IS THE PROPERTY OF ROTARY LIFT. IT IS BEING LOANED TO YOU FOR YOUR PROJECT. IT IS NOT TO BE REPRODUCED OR USED EXCEPT BY PERMISSION AND IS SUBJECT TO RETURN UPON REQUEST.

REV	DATE	BY
1	12/16/19	UC/ENG
2	04/10/20	UP/MSK

Rotary Lift

ROTARY LIFT WORLD HEADQUARTERS
2700 LINDER ROAD
MILWAUKEE, WI 53209
www.rotarylift.com
800.445.5438

PROJECT NAME

VRD: 04/19
VRD: 05/19
PEAK FOUNDATION LOADS

Project Name: SPEC00426-18
Rev: 4.10.19
Page: 18 OF 18