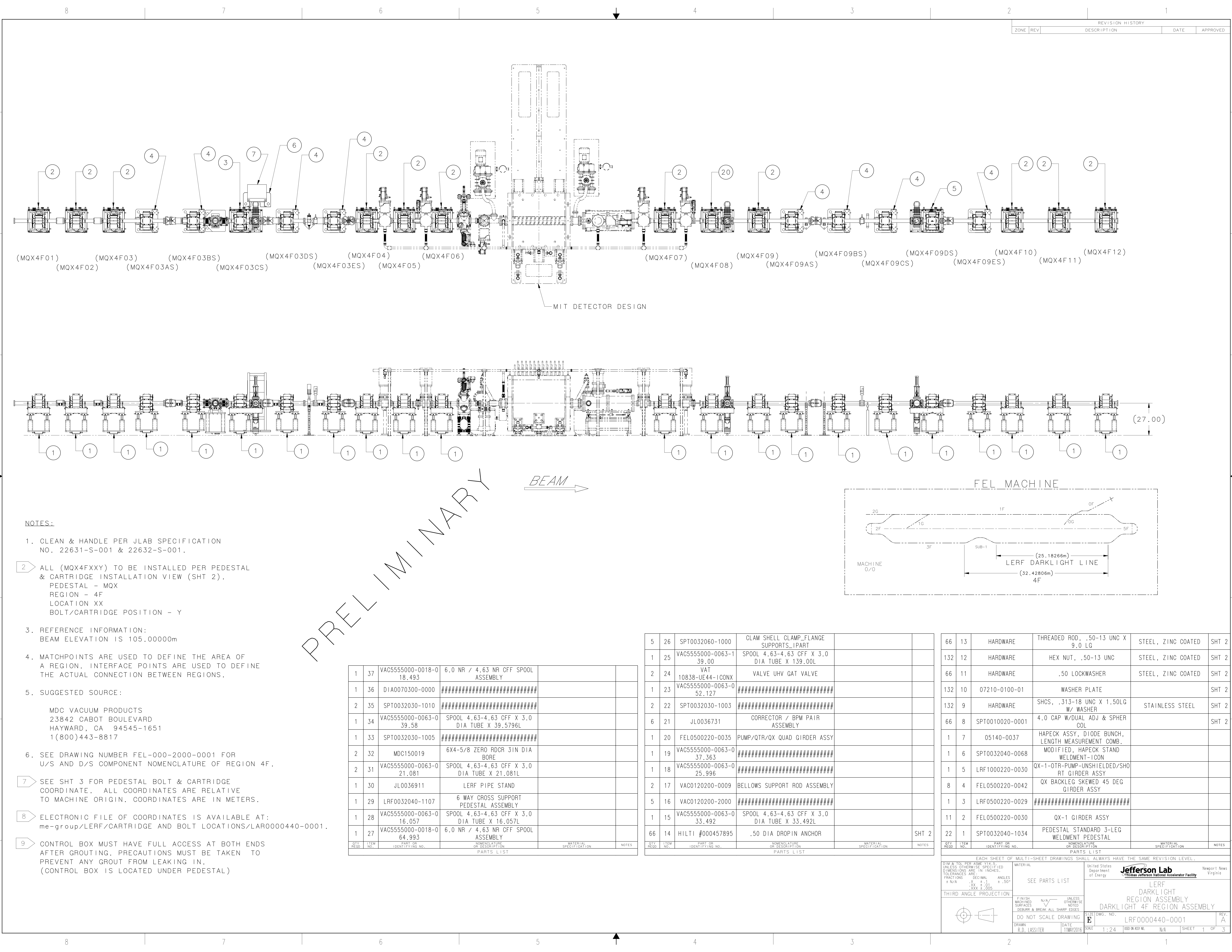




NOTES:

1. CLEAN & HANDLE PER JLAB SPECIFICATION NO. 22631-S-001 & 22632-S-001.
2. ALL (MQX4FXXY) TO BE INSTALLED PER PEDESTAL & CARTRIDGE INSTALLATION VIEW (SHT 2).
PEDESTAL - MQX
REGION - 4F
LOCATION XX
BOLT/CARTRIDGE POSITION - Y
3. REFERENCE INFORMATION:
BEAM ELEVATION IS 105.00000m
4. MATCHPOINTS ARE USED TO DEFINE THE AREA OF A REGION. INTERFACE POINTS ARE USED TO DEFINE THE ACTUAL CONNECTION BETWEEN REGIONS.
5. SUGGESTED SOURCE:

MDC VACUUM PRODUCTS
23842 CABOT BOULEVARD
HAYWARD, CA 94545-1651
1(800)443-8817
6. SEE DRAWING NUMBER FEL-000-2000-0001 FOR U/S AND D/S COMPONENT NOMENCLATURE OF REGION 4F.
7. SEE SHT 3 FOR PEDESTAL BOLT & CARTRIDGE COORDINATE. ALL COORDINATES ARE RELATIVE TO MACHINE ORIGIN. COORDINATES ARE IN METERS.
8. ELECTRONIC FILE OF COORDINATES IS AVAILABLE AT: me-group/LERF/CARTRIDGE AND BOLT LOCATIONS/LAR0000440-0001.
9. CONTROL BOX MUST HAVE FULL ACCESS AT BOTH ENDS AFTER GROUTING. PRECAUTIONS MUST BE TAKEN TO PREVENT ANY GROUT FROM LEAKING IN. (CONTROL BOX IS LOCATED UNDER PEDESTAL)

1	37	VAC5555000-0018-018.493	6.0 NR / 4.63 NR OFF SPOOL ASSEMBLY		
1	36	DIA0070300-0000	#####		
2	35	SPT0032030-1010	#####		
1	34	VAC5555000-0063-039.58	SPOOL 4.63-4.63 OFF X 3.0 DIA TUBE X 39.5796L		
1	33	SPT0032030-1005	#####		
2	32	MDC150019	6X4-5/8 ZERO RDR 3IN DIA BORE		
2	31	VAC5555000-0063-021.081	SPOOL 4.63-4.63 OFF X 3.0 DIA TUBE X 21.081L		
1	30	JL0036911	LERF PIPE STAND		
1	29	LRF0032040-1107	6 WAY CROSS SUPPORT PEDESTAL ASSEMBLY		
1	28	VAC5555000-0063-016.057	SPOOL 4.63-4.63 OFF X 3.0 DIA TUBE X 16.057L		
1	27	VAC5555000-0018-064.993	6.0 NR / 4.63 NR OFF SPOOL ASSEMBLY		
QTY REQD	ITEM NO.	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION PARTS LIST	MATERIAL SPECIFICATION	NOTES

5	26	SPT0032060-1000	CLAM SHELL CLAMP_FLANGE SUPPORTS_IPART		
1	25	VAC5555000-0063-139.00	SPOOL 4.63-4.63 OFF X 3.0 DIA TUBE X 139.00L		
2	24	VAT 10838-UE44-ICONX	VALVE UHV GAT VALVE		
1	23	VAC5555000-0063-052.127	#####		
2	22	SPT0032030-1003	#####		
6	21	JL0036731	CORRECTOR / BPM PAIR ASSEMBLY		
1	20	FEL0500220-0035	PUMP/QTR/QX QUAD GIRDER ASSY		
1	19	VAC5555000-0063-037.363	#####		
1	18	VAC5555000-0063-025.996	#####		
2	17	VAC0120200-0009	BELLOWS SUPPORT ROD ASSEMBLY		
5	16	VAC0120200-2000	#####		
1	15	VAC5555000-0063-033.492	SPOOL 4.63-4.63 OFF X 3.0 DIA TUBE X 33.492L		
66	14	HILTI #000457895	.50 DIA DROPIN ANCHOR		SHT 2
QTY REQD	ITEM NO.	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION PARTS LIST	MATERIAL SPECIFICATION	NOTES

66	13	HARDWARE	THREADED ROD, .50-13 UNC X 9.0 LG	STEEL, ZINC COATED	SHT 2
132	12	HARDWARE	HEX NUT, .50-13 UNC	STEEL, ZINC COATED	SHT 2
66	11	HARDWARE	.50 LOCKWASHER	STEEL, ZINC COATED	SHT 2
132	10	07210-0100-01	WASHER PLATE		SHT 2
132	9	HARDWARE	SHOS, .313-18 UNC X 1.50LG W/ WASHER	STAINLESS STEEL	SHT 2
66	8	SPT0010020-0001	4.0 CAP W/DUAL ADJ & SPHER COL		SHT 2
1	7	05140-0037	HAPECK ASSY, DIODE BUNCH, LENGTH MEASUREMENT COMB.		
1	6	SPT0032040-0068	MODIFIED, HAPECK STAND WELDMENT-ICON		
1	5	LRF1000220-0030	QX-1-OTR-PUMP-UNSHIELDED/SHO RT GIRDER ASSY		
8	4	FEL0500220-0042	QX BACKLEG SKEWED 45 DEG GIRDER ASSY		
1	3	LRF0500220-0029	#####		
11	2	FEL0500220-0030	QX-1 GIRDER ASSY		
22	1	SPT0032040-1034	PEDESTAL STANDARD 3-LEG WELDMENT PEDESTAL		
QTY REQD	ITEM NO.	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION PARTS LIST	MATERIAL SPECIFICATION	NOTES

UNIT & TOL PER ASME Y14.5, UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ARE:
FRACTIONS DECIMAL ANGLES
X ± .01 X ± .01 X ± .01
X ± .005 X ± .01 X ± .01

THIRD ANGLE PROJECTION

MATERIAL SEE PARTS LIST

FINISH MACHINED SURFACES UNLESS OTHERWISE NOTED DEBURR & BREAK ALL SHARP EDGES

DO NOT SCALE DRAWING

DRAWN R.D. LASSITER DATE 11MAY2016

United States Department of Energy
Jefferson Lab
Thomas Jefferson National Accelerator Facility
Newport News Virginia

LERF DARKLIGHT REGION ASSEMBLY
DARKLIGHT 4F REGION ASSEMBLY

SIZE DWG. NO. LRF0000440-0001
SCALE 1:24 (SEE OR ASSY NO. N/A) SHEET 1 OF 3

REV. A