MEDIUM VOLTAGE LOAD TABLE		
DEMAND FACTOR	EST DEMAND LOAD	12.47 KV CURRENT
100% DEMAND	9.0 MVA *	417 A
60% DEMAND	5.4 MVA	250 A
40% DEMAND	3.6 MVA	167 A
EST SPARE CAPACITY AT B37 FEEDER: 8 MVA		
XFMR CAPACITY	3.3 MVA	153 A
* PER GLUMAC SCHEM. DESIGN (6/15/2022)		

RATINGS & FEATURES:

- NOMINAL VOLTAGE: 12.47KV
- BUS RATING: 600A
- RATING: 600 MVA @ 13.8KV
- BIL VOLTAGE: 95KV
- SHORT CIRCUIT RATING: 25KA
- OUTDOOR INSTALLATION
- INCOMING SWITCHES: NON-FUSED
- OUTGOING SWITCHES: FUSED
- MANUAL TRANSFER CONTROLS

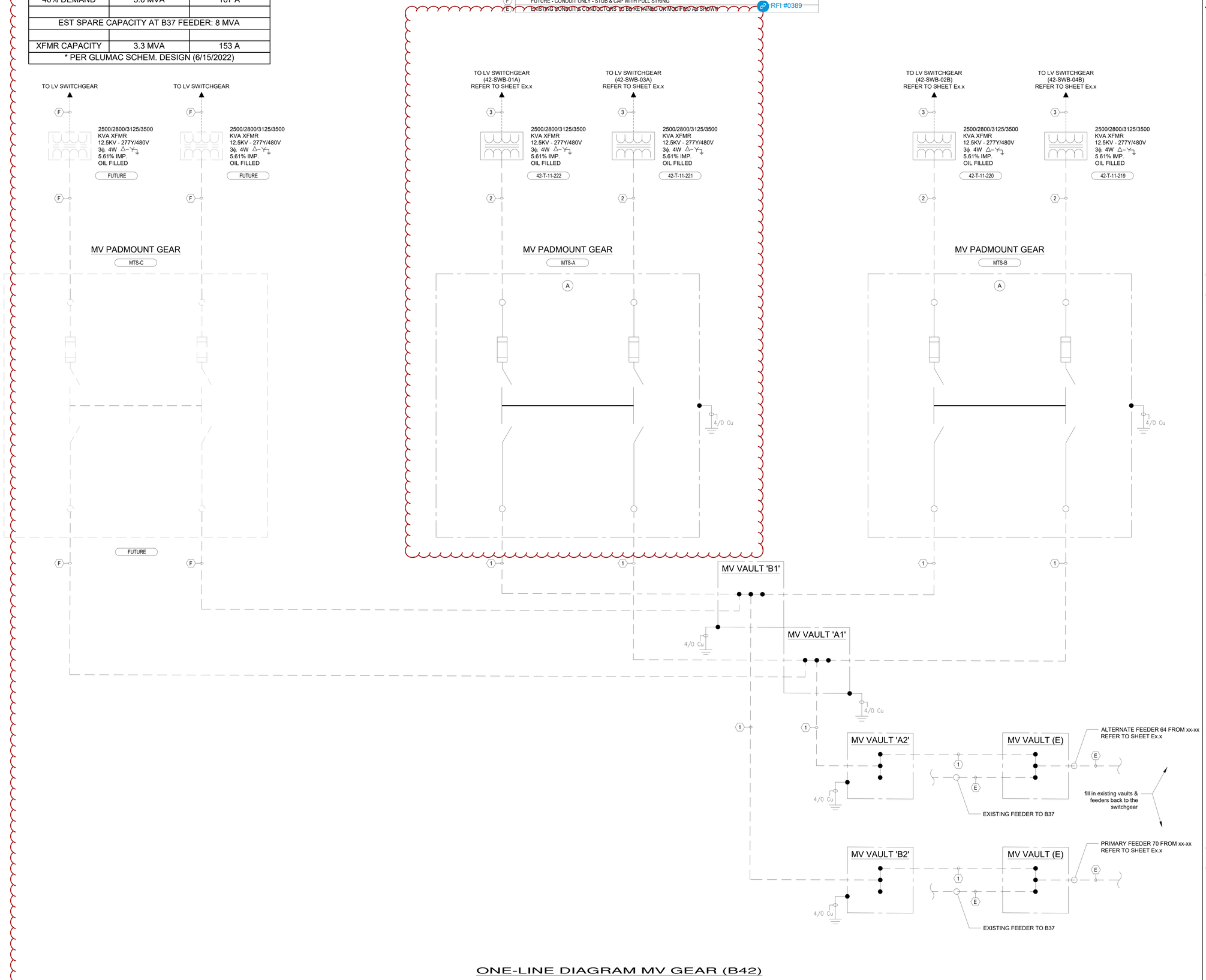
CONDUIT & WIRE SCHEDULE

	CONDUIT QTY	PHASE COND. PER CONDUIT (QTY) SIZE	NEUTRAL COND. PER CONDUIT (QTY) SIZE	GROUND COND. PER CONDUIT (QTY) SIZE	CONDUIT SIZE/TYPE	NOTES
1	1	(3) 500 KCMIL	-	(1) # 4/0	5" PVC SCH40	15KV CABLE
2	1	(3) 500 KCMIL	-	(1) # 4/0	5" PVC SCH40	15KV CABLE
3	LOW VOLTAGE - REFER TO SHEETS E6.xx					
F	FUTURE - CONDUIT ONLY - STUB & CAP WITH PULL STRING					
E	EXISTING CONDUIT & CONDUCTORS TO BE REWIRED OR MODIFIED AS SHOWN					

RFI #0389

GEAR SCHEDULE:

(A) TYPE - S&C PMH-9
RATING - 12.5KV, 600A
FEATURES - MANUAL OPERATOR, PAD-MOUNT
FUSING: SMU-20, 15kV, 150E, Standard Speed



ONE-LINE DIAGRAM MV GEAR (B42)

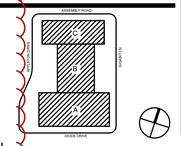
SHEET NOTES

RFI #0383

1. (E) EXISTING EQUIPMENT TO BE RETAINED OR MODIFIED UNDER THIS CONTRACT.
2. (F) FUTURE EQUIPMENT NOT PROVIDED UNDER THIS CONTRACT, RESERVE SPACE.
3. REFER TO SPECIFICATION SECTION x FOR PAD MOUNT GEAR
4. REFER TO SPECIFICATION SECTION x FOR SUB-STATION TRANSFORMERS

GENERAL NOTES

KEY PLAN



City of Boise Stamps

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Control Engineers

Date	Description
03/29/2024	PERMIT SET
11/12/2024	REVISION ONE

Seal / Signature

ISSUE FOR CONSTRUCTION

Project Name
MICRON BUILDING B42

Project Number
78.6518.000

Description
B42 - ELECTRICAL POWER - MV ONELINE DIAGRAM

Scale
EP-5.0

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