UNIVERSITY OF COLORADO DENVER ANSCHUTZ MEDICAL CAMPUS

R1 NORTH ROOMS 0437 AND 0437A
RENOVATE FOR NEW MRI
PROJECT # 17-264723

PERMIT / CONSTRUCTION
7 DECEMBER 2017

OWNER UNIVERSITY OF COLORADO DENVER
1945 NORTH WHEELING STREET
AURORA, CO 80045
DAN ARGERSINGER

ARCHITECT POLYCHROME ARCHITECTURE
670 ESTES STREET
LAKEWOOD, CO 80215
RACHEL ROUILLER (303)548-8753

MEP CATOR RUMA & ASSOCIATES
896 TABOR STREET
LAKEWOOD, CO 80401
(303)232-6200
GENERAL NOTES:
1. Overcurrent protection is sized per NEC 450.3.
2. All conductors are copper. See plans for increased conductor sizes due to voltage drop, etc.
3. Secondary bonding and grounding conductors are sized per NEC 250.66 and 250.102.
4. Conduit 40% fill ratio is based on EMT.
5. The transformer needs to have bonded the mid-point neutral to the ground connector.

FEEDER SCHEDULE

CONDUCTORS
4 G1 # 2 G 3/4

XFMR SEE TRANSFORMER SCHEDULE
EXISTING PANEL "MRIH"

Panel Notes:

60A MAIN CIRCUIT BREAKER VOLTAGE  230 / 400 V
1. NEW LOAD ON EXISTING CIRCUIT BREAKER.
7. PROVIDE GFCI CIRCUIT BREAKER.

225 A M.L.O. VOLTAGE  120 / 208 V
1. NEW LOAD ON EXISTING CIRCUIT BREAKER.
7. PROVIDE GFCI CIRCUIT BREAKER.

WIRE  4 W
3. REPLACE EXISTING CIRCUIT BREAKER WITH NEW CIRCUIT BREAKER.

AMPERE  SHORT CIRCUIT RATING (FULLY RATED)
5. EXISTING LOAD REMOVED. WITH NEW MAIN CIRCUIT BREAKER.

MTG. : SURFACE

6. PROVIDE 30mA GROUND FAULT CIRCUIT BREAKER.

MFR : GE
4. EXISTING LOAD. LOAD IS ESTIMATED.

22,000
MTG. : SURFACE

GENERAL NOTES:

A. PRIOR TO WORK, VERIFY ELECTRICAL REQUIREMENTS (VOLTAGE, AMPERAGE, RECOMMENDED OCPD, CONDUCTORS, AND DISCONNECT) FOR EACH PIECE OF EQUIPMENT.

D. FEEDERS, BREAKERS, DISCONNECTS, AND FUSING APPLIES TO FIELD-INSTALLED AND/OR FACTORY-INSTALLED EQUIPMENT.

E. COORDINATE LOCATION OF VFD'S AND WORKING SPACE CLEARANCES. IF INSTALLED REMOTE FROM EQUIPMENT, PROVIDE CIRCUIT CONNECTION FROM VFD TO MOTOR(S).

PHASE LOADING SUMMARY

LOAD TYPE (VA) PH A PH B PH C
LOAD TYPE CONNECTED NEC CALCULATED POWER
DEMAND
PHASE AMPACITY 32.4 32.4 32.4
NEC DEMAND

TOTAL (VA) 7,500.0 7,500.0 7,500.0
REMAINDER 0.0 KVA x 50% = 0.0 KVA x 100% = 0.0 KW
AMPACITY =

PHASE LOADING SUMMARY

LOAD TYPE (VA) PH A PH B PH C
LOAD TYPE CONNECTED NEC CALCULATED POWER
DEMAND
PHASE AMPACITY 38.2 38.2 31.3
NEC DEMAND

TOTAL (VA) 3,835.8 3,835.8 3,014.2
REMAINDER 0.0 KVA x 50% = 0.0 KVA x 100% = 0.0 KW
AMPACITY =

PHASE LOADING SUMMARY

LOAD TYPE (VA) PH A PH B PH C
LOAD TYPE CONNECTED NEC CALCULATED POWER
DEMAND
PHASE AMPACITY 22.5 KVA x 100% = 22.5 KVA x 100% = 22.5 KW
NEC DEMAND

TOTAL (VA) 22.5 KVA 22.5 KVA 22.5 KW
REMAINDER 0.0 KVA x 50% = 0.0 KVA x 100% = 0.0 KW
AMPACITY =

PHASE LOADING SUMMARY

LOAD TYPE (VA) PH A PH B PH C
LOAD TYPE CONNECTED NEC CALCULATED POWER
DEMAND
PHASE AMPACITY 10.7 KVA 12.9 KVA 11.7 KW
NEC DEMAND

TOTAL (VA) 10.7 KVA 12.9 KVA 11.7 KW
REMAINDER 0.0 KVA x 50% = 0.0 KVA x 100% = 0.0 KW
AMPACITY =

GENERAL NOTES:

' PROVIDE NEW UPDATED PANEL DIRECTORIES FOR PANELS THAT ARE INCLUDED IN THIS PROJECT.  ' PROVIDE TYPED DESCRIPTIONS OF NEW CIRCUITS BEING INSTALLED. INDICATE NEW SPARES IN PENCIL.

PANEL "MRIH"