

A

B

C

D

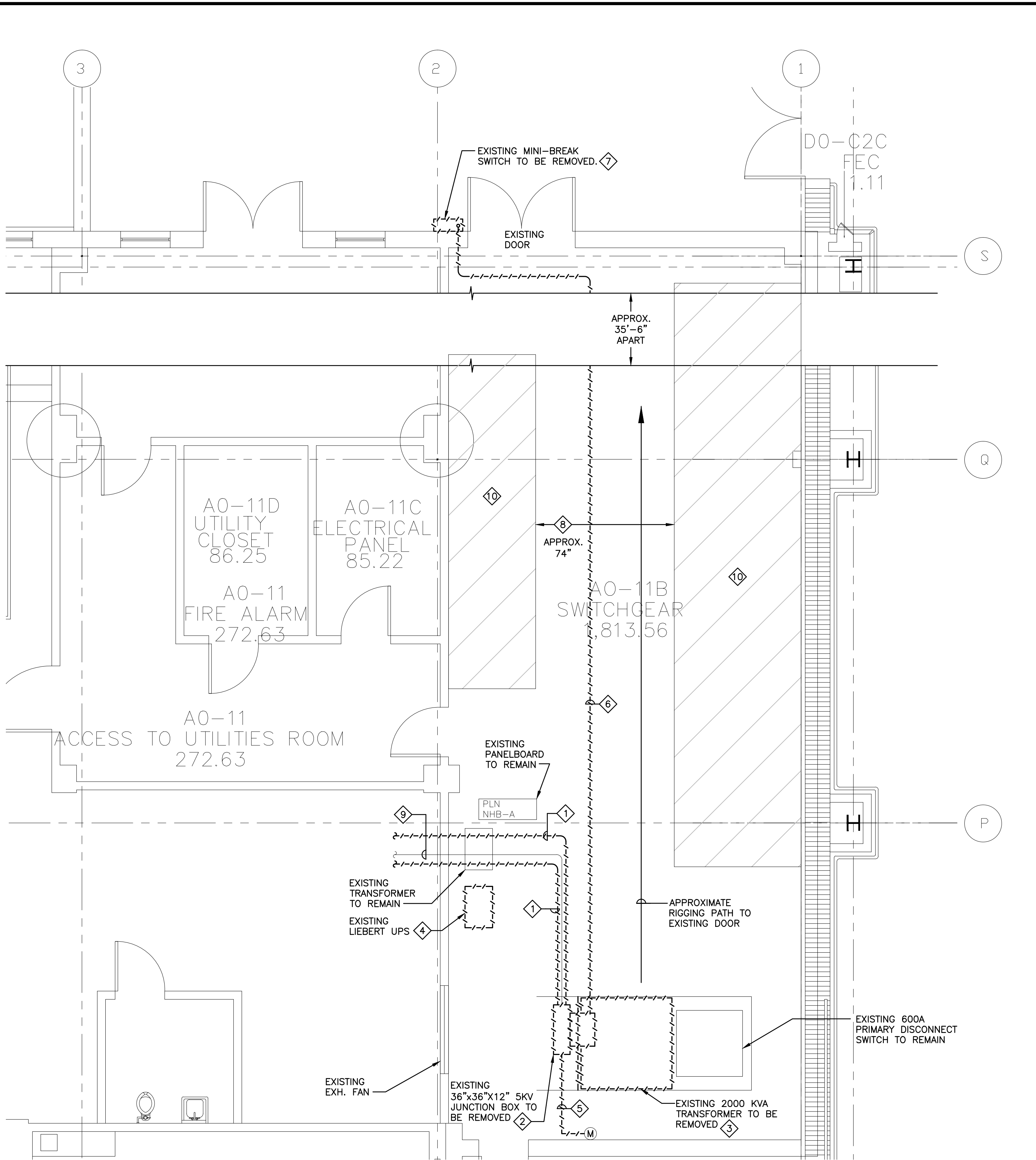
E

F

Revisions

Date

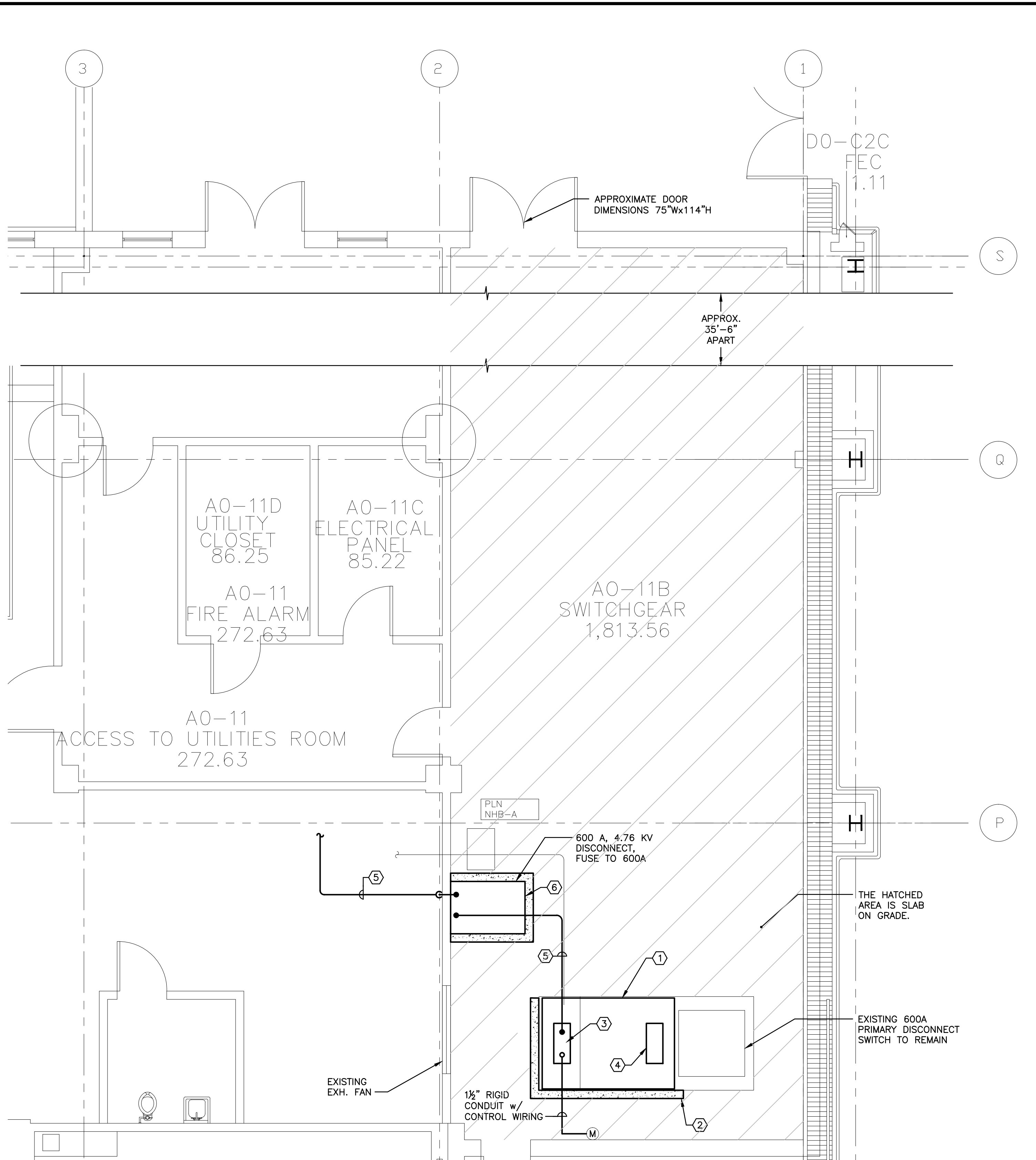
three inches = one foot  
one and one half inches = one foot  
one inch = one foot  
three quarters inch = one foot  
one half inch = one foot  
three eighths inch = one foot  
one quarter inch = one foot  
one eighth inch = one foot



ELECTRICAL: DEMOLITION - PARTIAL GROUND FLOOR PLAN  
SCALE: 1/4"=1'-0"

KEYED DEMOLITION NOTES:

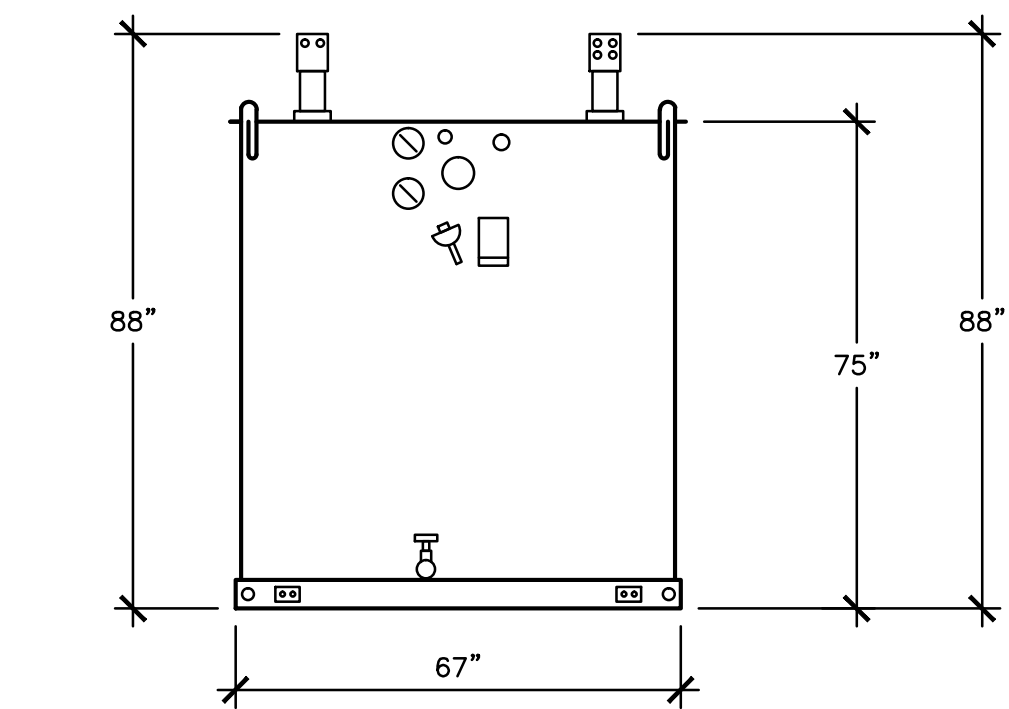
- E.C. SHALL REMOVE EXISTING CONDUITS AND CONDUCTORS FEEDING EXISTING CHILLERS FROM JUNCTION BOX ON SECONDARY SIDE OF EXISTING TRANSFORMER TO EXISTING CHILLER STARTERS. E.C. SHALL REPAIR ALL PENETRATIONS AFTER CONDUIT REMOVALS. REPAIR SHALL MAINTAIN EXISTING FIRE RATING OF WALL.
- E.C. SHALL REMOVE & PROPERLY DISPOSE OF EXISTING JUNCTION BOX ON THE SECONDARY SIDE OF EXISTING LIQUID FILLED STEP DOWN TRANSFORMER.
- E.C. SHALL COMPLETELY REMOVE AND PROPERLY DISPOSE OF EXISTING 2000 KVA LIQUID FILLED STEP DOWN MEDIUM VOLTAGE TRANSFORMER. FOR SAFETY PURPOSES AND TO DECREASE OVERALL TRANSFORMER WEIGHT FOR MOVING/RIGGING/SHIPPING PURPOSES, E.C. SHALL RECOMMEND CONTRACTOR DRAIN TRANSFORMER OIL INTO CHEMICALLY COMPATIBLE/D.O.T. APPROVED SHIPPING CONTAINERS AND REMOVE/TRANSPORT/DISPOSE OF/RECYCLE OIL IN ACCORDANCE WITH ALL FEDERAL, STATE & LOCAL REGULATIONS.
- EXISTING LIEBERT POWER CONDITIONER UNIT SHALL BE REMOVED AND TURNED OVER TO VAMC OR DISPOSED OF BY CONTRACTOR AS DIRECTED BY THE RESIDENT ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER REMOVAL AND DISPOSAL OF DEMOLITION ITEMS OFF SITE.
- E.C. SHALL REMOVE & PROPERLY DISPOSE OF EXISTING FEED & CT'S/PT'S FOR THE EXISTING UTILITY METER. EXISTING METER SHALL REMAIN & BE RECONNECTED.
- EXISTING EMERGENCY FEED TO BE REMOVED IN ITS ENTIRETY FROM DISCONNECT SWITCH ON EXTERIOR OF BUILDING TO JUNCTION BOX ON SECONDARY SIDE OF EXISTING TRANSFORMER. PROPERLY SEAL ALL PENETRATIONS TO MAINTAIN FIRE RATING OF SWITCHGEAR ROOM.
- EXISTING DISCONNECT SWITCH AND ALL MOUNTING HARDWARE TO BE REMOVED AND PROPERLY DISPOSED OF BY CONTRACTOR AS DIRECTED BY PROJECT RESIDENT ENGINEER. CONTRACTOR SHALL REPAIR ALL HOLES AND DAMAGE TO EXTERIOR BRICK AFTER SWITCH REMOVAL IS COMPLETED.
- PRIOR TO REMOVING EXISTING TRANSFORMER, CONTRACTOR SHALL PROVIDE & INSTALL APPROPRIATE PROTECTION FOR THE ELECTRICAL SWITCHGEAR ON BOTH SIDES OF THIS ROOM. THIS PROTECTION SHALL BE IN PLACE DURING THE RIGGING AND REMOVAL OF THE EXISTING TRANSFORMER AS WELL AS THE INSTALLATION OF NEW TRANSFORMER. COORDINATE EXACT TYPE OF PROTECTION WITH RESIDENT ENGINEER AND VA.
- E.C. SHALL REMOVE EXISTING CONDUCTORS FROM EXISTING CONDUIT. CONDUIT SHALL REMAIN AND BE LABELED AS SPARE. DISCONNECT CONDUIT FROM EQUIPMENT AT EACH END. PROVIDE PULL STRING AND END CAPS.
- APPROXIMATE LOCATION OF EXISTING SWITCHGEAR.



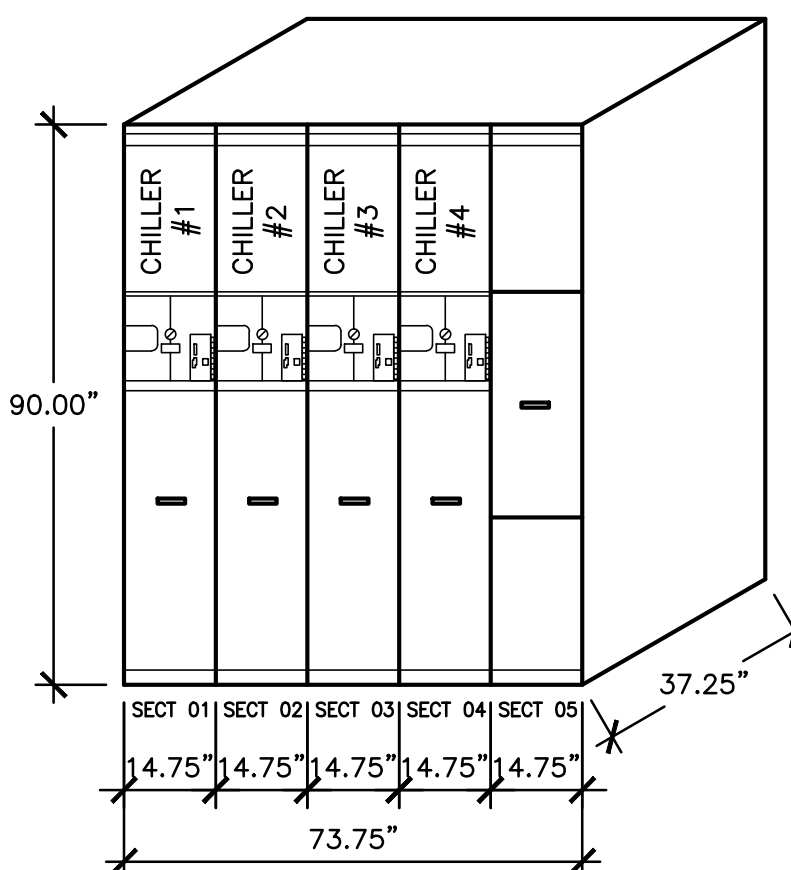
ELECTRICAL: NEW - PARTIAL GROUND FLOOR PLAN  
SCALE: 1/4"=1'-0"

KEYED NOTES:

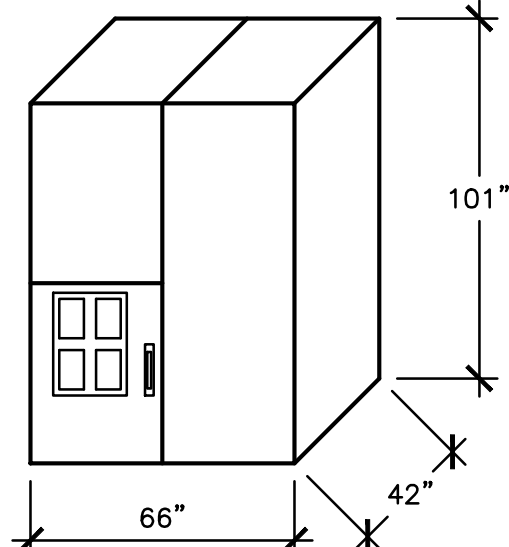
- E.C. SHALL REPLACE EXISTING 2000 KVA LIQUID FILLED TRANSFORMER WITH A NEW 3000 KVA LIQUID FILLED TRANSFORMER TYPICAL OF COOPER POWER SYSTEM ENVIRONMENTAL INDOOR OPEN TYPE SUBSTATION CATALOG SECTION 210-16 WITH ENVIRONMENTAL FLUID AND INDOOR CONTAINMENT PAN. THE TRANSFORMER SHALL HAVE A RATING OF 3000 KVA WITH 13,200V PRIMARY, 4160Y/2400 VOLTS SECONDARY, 65°C AVERAGE TEMPERATURE RISE, COPPER WINDINGS & TOP HIGH/LOW VOLTAGE BUSHING CONNECTIONS. PROVIDE NEW TRANSFORMER WITH SPILL CONTAINMENT ENCLOSURE SIZED PER MANUFACTURER'S RECOMMENDATIONS. TO EASE RIGGING & INSTALLATION IT SHALL BE ACCEPTABLE TO PROVIDE TRANSFORMER WITH DETACHABLE RADATORS.
- EXTEND AND/OR WIDEN EXISTING 4" CONCRETE HOUSEKEEPING PAD AS NECESSARY TO PROPERLY SUPPORT NEW TRANSFORMER ENCLOSURE AND CONTAINMENT PAN. PAINT ENTIRE TRANSFORMER PAD SAFETY YELLOW. DIMENSION OF NEW 3000 KVA TRANSFORMER IS APPROXIMATELY 67'Wx39'Dx88'H, HOWEVER CONTAINMENT PAN WILL BE LARGER, ACTUAL DIMENSIONS MUST BE VERIFIED FROM MANUFACTURER PRIOR TO INSTALLATION. SEE CONCRETE PAD DETAIL ON DRAWING E-1.
- E.C. SHALL PROVIDE ALL APPURTENANCES NECESSARY TO RECONNECT THE EXISTING UTILITY METER WITH THE NEW TRANSFORMER. PROVIDE & INSTALL NEW JUNCTION BOXES, SPLICES, CONDUIT, CONTROL WIRING, CT'S & PT'S FOR A COMPLETE AND OPERABLE SYSTEM.
- E.C. SHALL PROVIDE ALL APPURTENANCES AS REQUIRED TO CONNECT EXISTING 600A PRIMARY SWITCH TO NEW 3000 KVA TRANSFORMER. PROVIDE AND INSTALL NEW 15KV BUSSMAN JCN 300 AMP E-RATED FUSES IN EXISTING PRIMARY SWITCH.
- E.C. SHALL PROVIDE & INSTALL A MAIN FEED TO THE NEW MEDIUM VOLTAGE SWITCHGEAR LOCATED IN THE BASEMENT. THE FEED SHALL BE 2 SETS EACH CONSISTING OF (3)#250 MCM 5 KV CABLES, (1)#1/0 GND IN 4" RIGID CONDUIT. PROVIDE DEADBREAK ELBOWS AND ALL APPURTENANCES NECESSARY TO CONNECT TO TRANSFORMER SECONDARY. PAINT CONDUIT ORANGE.
- E.C. SHALL PROVIDE & INSTALL A NEW MEDIUM VOLTAGE 4.76KV 600 AMP FUSED DISCONNECT SWITCH TYPICAL OF SQUARE 'D' MODEL #HVLCC20305D WITH 600 AMP E-RATED MEDIUM VOLTAGE FUSES. PROVIDE & INSTALL NEW 4" HOUSEKEEPING PAD BELOW SWITCH. PAINT PAD SAFETY YELLOW. VERIFY ACTUAL DIMENSIONS OF PAD WITH SWITCH PRIOR TO INSTALLATION. SEE CONCRETE PAD DETAIL ON DRAWING E-1.



3000 KVA LIQUID FILLED TRANSFORMER FRONT ELEVATION  
N.T.S.

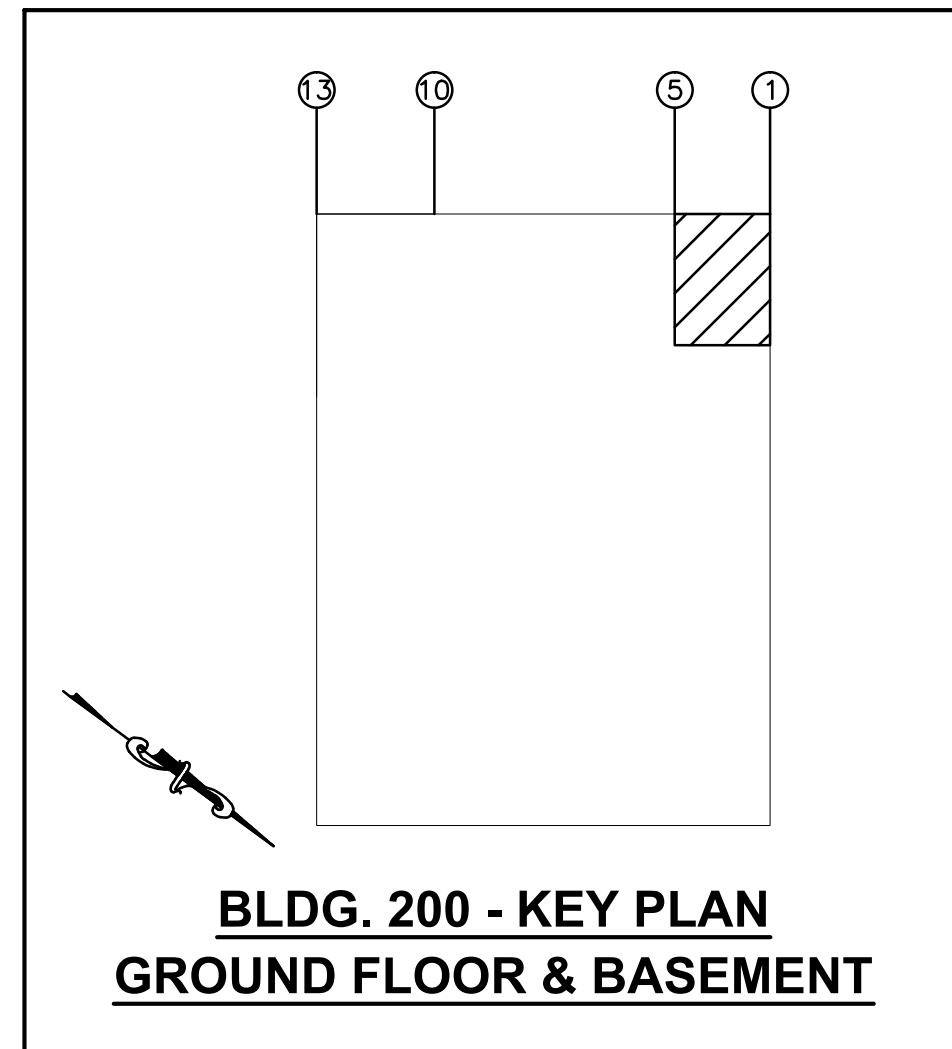


MEDIUM VOLTAGE DISTRIBUTION SWITCHGEAR ELEVATION CHILLERS 1-4  
N.T.S.



NEW STARTER ELEVATION (VA FURNISHED PROPERTY)  
N.T.S.

- NOTES:
- NEMA 3R DIMENSIONS ARE SHOWN. NEMA 1 DIMENSIONS ARE 58"Wx30"Dx90"H.
  - GE AUTHORIZED SERVICE REPRESENTATIVE SHALL REMOVE STARTER FROM NEMA 3R ENCLOSURE AS PER KEYED NOTE 11 ON DWG. E-3.



BLDG. 200 - KEY PLAN  
GROUND FLOOR & BASEMENT

100% CONSTRUCTION DOCUMENTS

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Designed By: THF Drawn By: PJP Drawing Scale: AS SHOWN FE Project No. 11-197

Drawing Title  
**BLDG. 200 PARTIAL  
GROUND FLOOR DEMOLITION  
& CONSTRUCTION PLAN**

Approved: Division Chief

Approved: Service Director

Project Title  
**UPGRADE POWER FOR  
CHILLER PLANT**

Building Number  
**200**

Location  
**NORTHPORT, NY 11768**

Date  
**4/10/12**

Project No.  
**632-11-119**

Drawing No.  
**E-4**

Dwg. 6 of 6



VA Department of Veterans Affairs