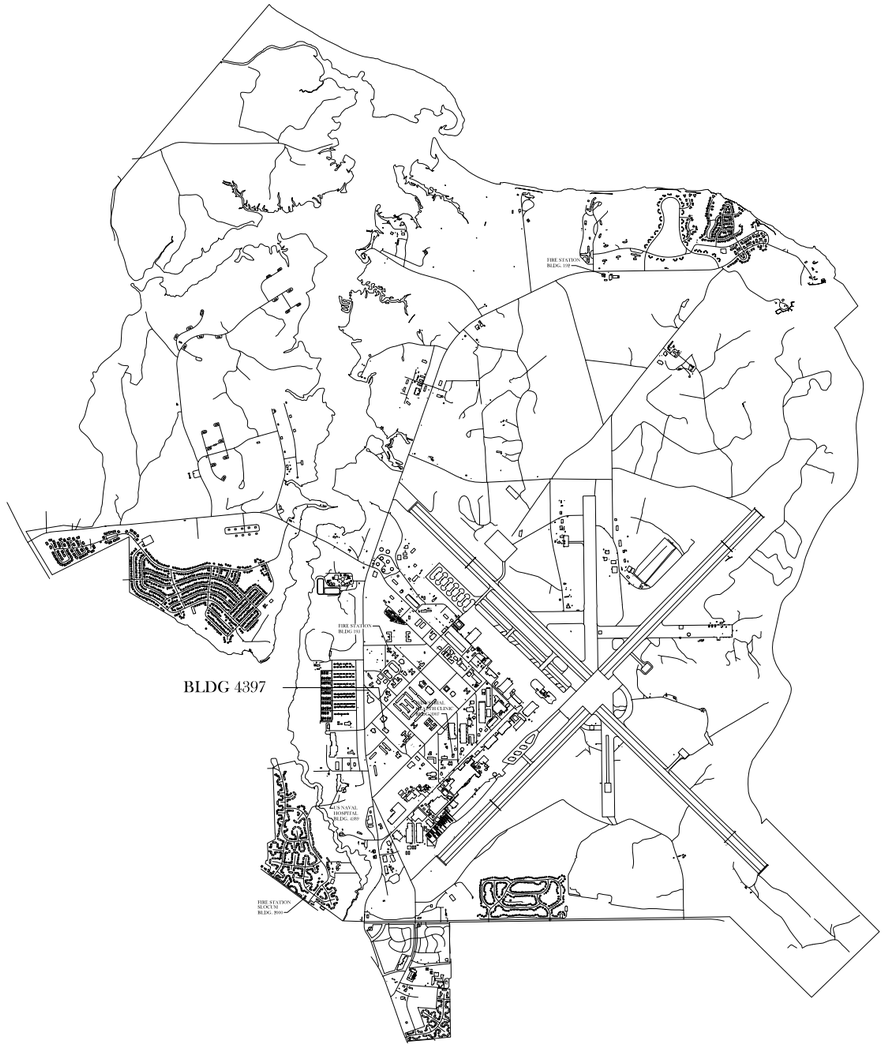
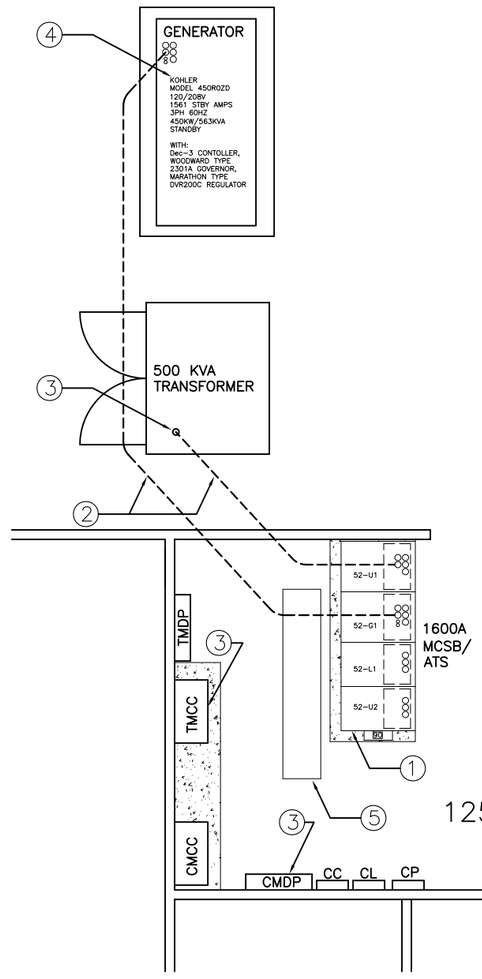


VICINITY MAP



BUILDING 4397 - COMMUNICATION CENTER RM 125 FLOOR PLAN

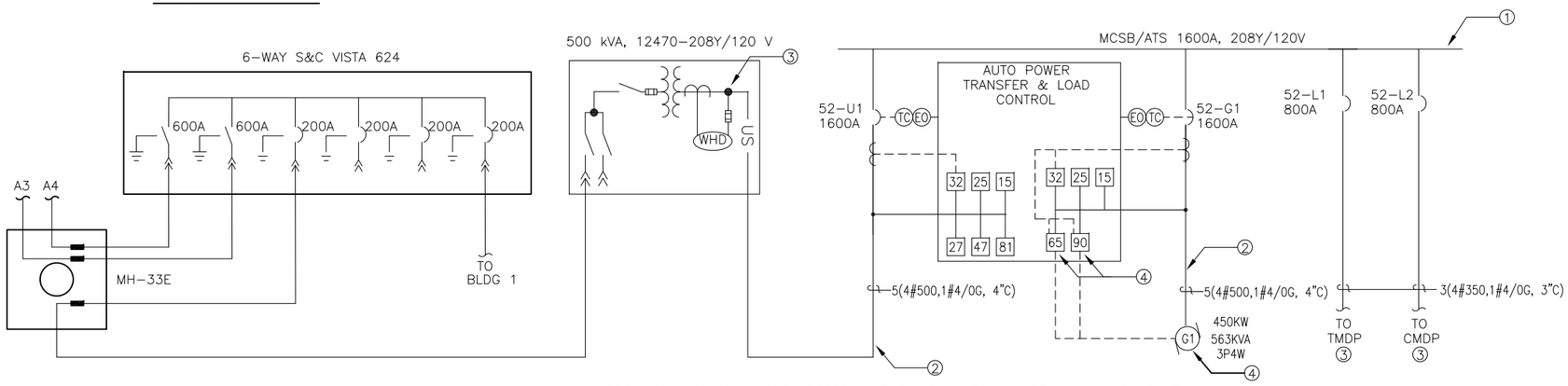
(SCALE 1/8"=1')

KEYED NOTES (THIS SHEET):

1. DEMO EXISTING MASTER CONTROL SWITCHBOARD (MCSB). DISCONNECT ALL CONDUCTORS AND PROTECT DURING DEMOLITION SO THEY MAY BE REUSED.
2. DISCONNECT ONE CONDUCTOR/PHASE INCLUDING NEUTRAL AND GROUND CONDUCTORS AND REMOVE FROM ONE CONDUIT, REDUCING EACH FEEDER TO 4(4#500, 1#4/0G). REMOVE BUSHINGS FROM EACH END OF CONDUITS AND CAP.
3. BEGIN THE DEMOLITION PHASE BY DISCONNECTING THE SERVICE ENTRANCE CONDUCTORS FROM THE TRANSFORMER SECONDARY LUGS AND SECURING THE GENERATOR IN AN OFF STATE. DISCONNECT THE INCOMING FEEDS TO PANELS TMDP AND CMDP. INSTALL TEMPORARY FEEDS FROM THE TRANSFORMER SECONDARY SPADES TO EACH PANEL USING 4#350, 1#4/0G CONDUCTORS. ROUTE CABLES FROM TRANSFORMER INTO ROOM 125 AND THEN OVERHEAD AND DOWN INTO EACH PANEL. CONNECT TEMPORARY CABLES TO INPUT LUGS ON EACH PANEL. COORDINATE WITH ROICC TO DE-ENERGIZE AND RE-ENERGIZE TRANSFORMER FOR THIS WORK.
4. EXISTING GENERATOR GOVERNOR AND VOLTAGE REGULATOR TO BE DEMOED. RETAIN EXISTING ASSOCIATED CONDUCTORS TO BE REUSED.
5. DEMO CEILING SUSPENDED EXHAUST FAN AND DUCT ASSEMBLY COMPLETE.

DEVICE NUMBERS/ABBREVIATIONS:

15	SPEED MATCHING SYNCHRONIZER
25	SYNCHRONIZING CHECK RELAY
32	REVERSE POWER RELAY
47/27	PHASE SEQUENCE/UNDERVOLTAGE SENSING RELAY
52	CIRCUIT BREAKER
65	GOVERNOR
81	UNDERFREQUENCY RELAY
90	VOLTAGE REGULATOR
90PF	VAR/POWER FACTOR CONTROLLER
ACT	ACTUATOR
MPU	MAGNETIC PICKUP
MVC	MANUAL VOLTAGE CONTROL
ST	SHUNT TRIP



COMM CENTER POWER ONE-LINE RISER DIAGRAM

0 2.5' 5 7.5 10 12.5 15 17.5'

SCALE: 1/8"=1'-0"

APPR	DATE	DESCRIPTION

DESIGNED & ENGINEERED BY:
FACILITIES ENGINEERING
DEPARTMENT (DIVISION?)

A/E'S USE THIS SPACE FOR YOUR ADDRESS INFO.

SEAL

APPROVED

ACTIVITY - SATISFACTORY TO

DATE

APPROVED

FOR EFD FOR COMMANDER NAVFAC

DATE

A/E	EFD
DESIGN	RCM
DRAWN	RCM
REVIEW	FMD
QC	RCM
CHIEF ARCH./ ENGR.	
PROJECT MANAGER	RCM
FIRE PROTECTION	N/A
BRANCH MANAGER	RCM
DESIGN DIRECTOR	JEF

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORPS AIR STATION, CHERRY POINT, N.C.

REPLACE AUTOMATIC TRANSFER SWITCH IN BUILDING 4397

EXISTING CONDITIONS/DEMO

CODE ID. NO. 80091 | SIZE D

SCALE: AS SHOWN

FED NO. 5035329

STA. PROJ. NO./WO# 5035329

SPEC. NO. N/A

CONSTR. CONTR. NO.

NAVFAC DRAWING NO.
12587785

SHEET 1 OF 2

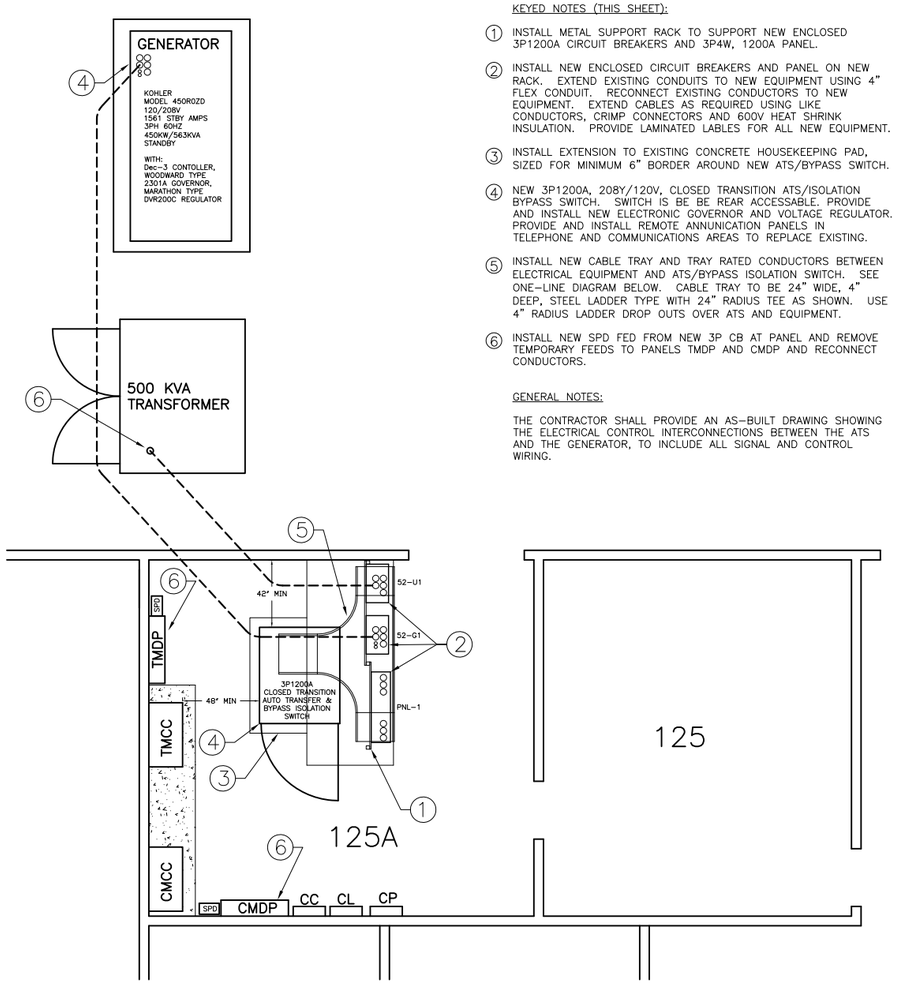
E-1

KEYED NOTES (THIS SHEET):

1. INSTALL METAL SUPPORT RACK TO SUPPORT NEW ENCLOSED 3P1200A CIRCUIT BREAKERS AND 3P4W, 1200A PANEL.
2. INSTALL NEW ENCLOSED CIRCUIT BREAKERS AND PANEL ON NEW RACK. EXTEND EXISTING CONDUITS TO NEW EQUIPMENT USING 4" FLEX CONDUIT. RECONNECT EXISTING CONDUCTORS TO NEW EQUIPMENT. EXTEND CABLES AS REQUIRED USING LIKE CONDUCTORS, CRIMP CONNECTORS AND 600V HEAT SHRINK INSULATION. PROVIDE LAMINATED LABLES FOR ALL NEW EQUIPMENT.
3. INSTALL EXTENSION TO EXISTING CONCRETE HOUSEKEEPING PAD, SIZED FOR MINIMUM 6" BORDER AROUND NEW ATS/BYPASS SWITCH.
4. NEW 3P1200A, 208Y/120V, CLOSED TRANSITION ATS/ISOLATION BYPASS SWITCH. SWITCH IS BE BE REAR ACCESSABLE. PROVIDE AND INSTALL NEW ELECTRONIC GOVERNOR AND VOLTAGE REGULATOR. PROVIDE AND INSTALL REMOTE ANNUNICATION PANELS IN TELEPHONE AND COMMUNICATIONS AREAS TO REPLACE EXISTING.
5. INSTALL NEW CABLE TRAY AND TRAY RATED CONDUCTORS BETWEEN ELECTRICAL EQUIPMENT AND ATS/BYPASS ISOLATION SWITCH. SEE ONE-LINE DIAGRAM BELOW. CABLE TRAY TO BE 24" WIDE, 4" DEEP, STEEL LADDER TYPE WITH 24" RADIUS TEE AS SHOWN. USE 4" RADIUS LADDER DROP OUTS OVER ATS AND EQUIPMENT.
6. INSTALL NEW SPD FED FROM NEW 3P CB AT PANEL AND REMOVE TEMPORARY FEEDS TO PANELS TMDP AND CMDP AND RECONNECT CONDUCTORS.

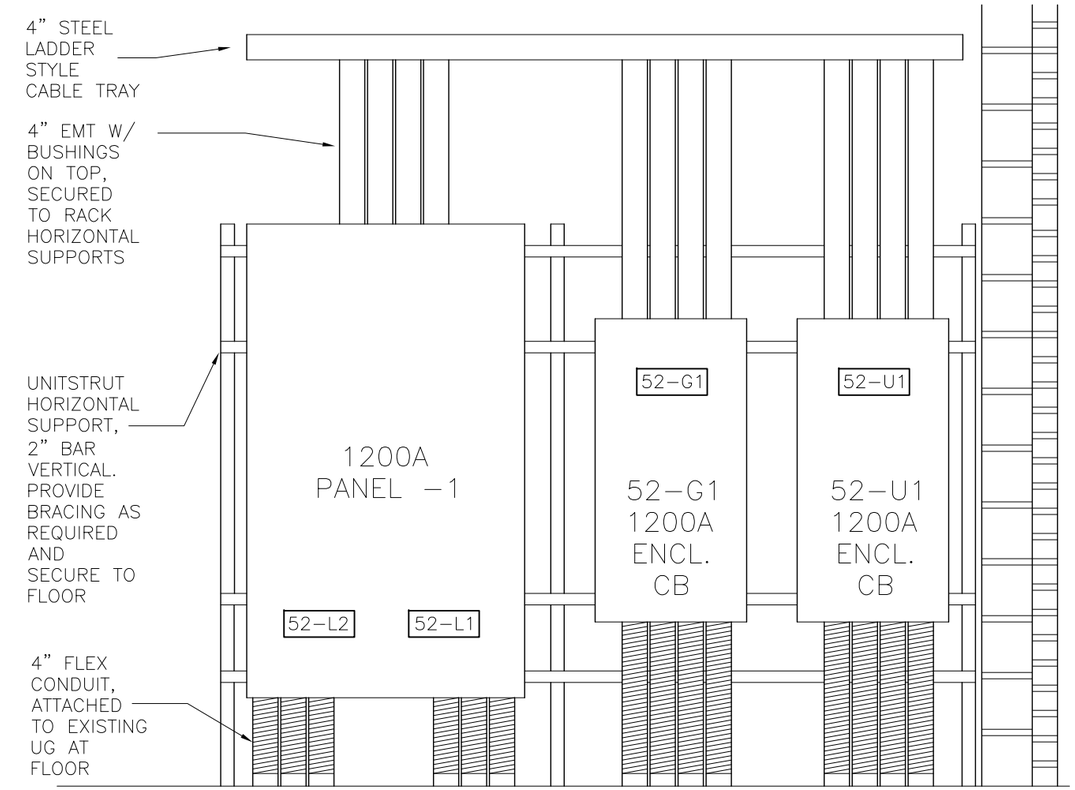
GENERAL NOTES:

THE CONTRACTOR SHALL PROVIDE AN AS-BUILT DRAWING SHOWING THE ELECTRICAL CONTROL INTERCONNECTIONS BETWEEN THE ATS AND THE GENERATOR, TO INCLUDE ALL SIGNAL AND CONTROL WIRING.



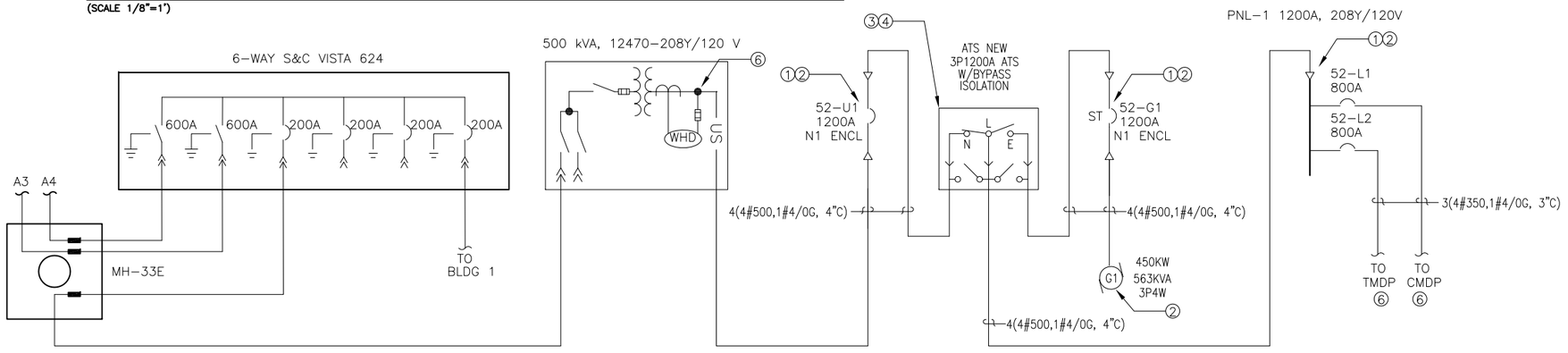
BUILDING 4397 - COMMUNICATION CENTER RM 125 FLOOR PLAN

(SCALE 1/8"=1')

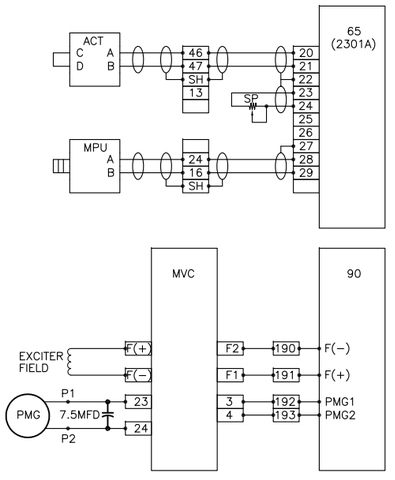


ELECTRICAL RACK ELEVATION

(SCALE 1/2"=1')



COMM CENTER POWER ONE-LINE RISER DIAGRAM



EXISTING GENERATOR CONTROL

SCALE: 1/8"=1'-0"

SCALE: 1/2"=1'-0"

APPR	DATE	DESCRIPTION

DESIGNED & ENGINEERED BY:
FACILITIES ENGINEERING
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DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORPS AIR STATION, CHERRY POINT, N.C.

REPLACE AUTOMATIC TRANSFER SWITCH IN BUILDING 4397

NEW WORK

CODE ID. NO. 80091	SIZE D
SCALE:	AS SHOWN
FED NO.	5035329
STA. PROJ. NO./WO#	5035329
SPEC. NO.	N/A
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	12587786
SHEET	2 OF 2

E-2