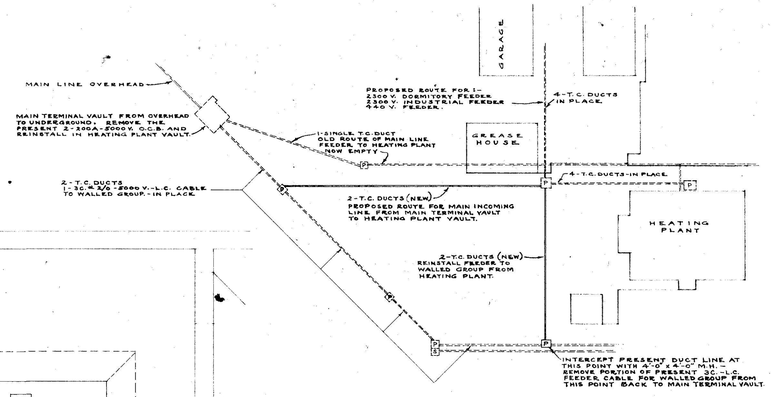


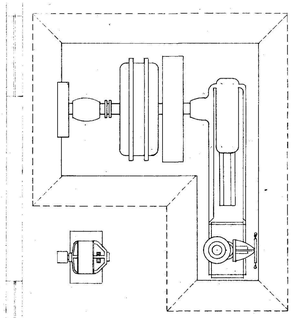
PART PLOT PLAN
SCALE 1" = 50 FT.

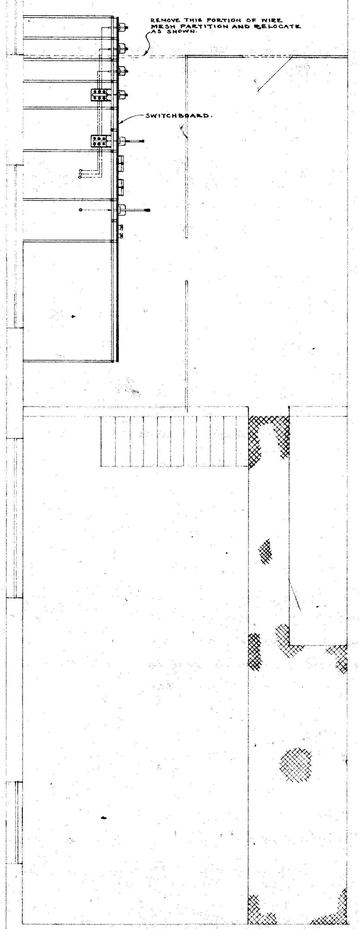
NOMENCLATURE

ITEM NO.	REMARKS
1	3-5000 V.-400 A.-S.P.S.T. DISCONNECTING SWITCHES - FRONT CONNECTED CONTACTS.
2	3-5000 V.-400 A.-S.P.D.T. DISCONNECTING SWITCHES - FRONT CONNECTED CONTACTS AND BACK CONNECTED HINGE.
3	9-5000 V.-200 A.-S.P.D.T. DISCONNECTING SWITCHES - ONE FRONT CONNECTED AND ONE BACK CONNECTED CONTACT AND BACK CONNECTED HINGE. SWITCHES ARRANGED IN THREE GROUPS OF THREE EACH.
4	1-400A.-5000V. MAIN LINE O.C.B. WITH 3-5A. TRIP COILS AND CURRENT TRANSFORMERS.
5	1-200A.-5000V.-O.C.B. FOR WALLED GROUP SERVICE WITH 2-5A. TRIP COILS AND 2 CURRENT TRANSFORMERS.
6	SAME AS ITEM 5 BUT FOR INDUSTRIAL SERVICE.
7	1-100A.-5000 V.-O.C.B. FOR DORMITORY GROUP SERVICE WITH 2-5A TRIP COILS AND 2 CURRENT TRANSFORMERS.
8	BELL CRANKS AND RODS FOR REMOTE MANUAL OPERATION OF OIL CIRCUIT BREAKERS.
9	6-50 K.V.A.-2300/440V.-DISTRIBUTION TRANSFORMERS - 3 ARE NOW IN THIS VAULT AND 3 ARE TO BE TRANSFERRED TO THIS VAULT FROM THE PRESENT TAG PLANT VAULT.
10	1-25 K.V.A.-2300V./220/110V. POWER DISTRIBUTION TRANSFORMER NOW IN THIS VAULT.
11	14-100A-2500V. OIL FUSE CUTOUTS-USE PRESENT CUTOUTS THAT ARE NOW CONNECTED TO THESE TRANSFORMERS.
12	INSULATED CABLE SUPPORTS.
13	CURRENT TRANSFORMERS.
14	SWITCHBOARD - SEE DETAIL.
15	FACE PLATES AND OPERATING LEVERS FOR OIL CIRCUIT BREAKERS.

GENERAL NOTES

1. SECONDARY CONNECTIONS TO THE TRANSFORMERS AND THE CONNECTIONS TO THE GENERATOR ARE NOT SHOWN ON THE PLANS HOWEVER. THESE CONNECTIONS SHALL BE MADE IN ACCORDANCE WITH THE LINE DIAGRAM AND WITH CODE REGULATIONS.
2. PIPEFRAME WORK SHALL BE 1¼" ST'D. BLACK IRON PIPE.
3. GROUND ALL METAL PARTS SUCH AS PIPEFRAME WORK, POTHEADS, OIL SWITCHES, TRANS. CASINGS, LEAD SHEATH ON HIGH TENSION CABLES, ETC., TO UNDERGROUND WATER SYSTEM OR APPROVED GROUNDING BELL WITH #2/0 COPPER WIRE. ALL GROUND CONNECTIONS SHALL BE CLAMPED.
4. ALL HIGH TENSION BUS WORK AND CONNECTIONS SHALL BE MADE WITH 5000 VOLT RUBBER INSULATED CABLE (NO BARE COPPER BUS BARS NECESSARY OR REQUIRED). CONNECTIONS TO 440 V. KNIFE SWITCHES ON SWITCHBOARD SHALL BE MADE WITH INSULATED SWITCHBOARD CABLE.
5. FROM PRESENT LIGHTING OUTLET IN VAULT EXTEND CONDUIT AND WIRING TO ADDITIONAL WALL TYPE, VAPOR PROOF LIGHTING OUTLETS IN NEW PORTION OF VAULT.
6. VAULT CONSTRUCTION SHALL BE MADE WATERPROOF.
7. THIS DRAWING IS INTENDED TO SHOW GENERALLY SPACE CONDITIONS AND ARRANGEMENT FOR NEW AND PRESENT EQUIPMENT. ANY POTHEADS, CABLE TERMINALS, OR INSTRUMENT TRANSFORMERS NOT SHOWN BUT OBVIOUSLY NECESSARY SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH ACCEPTED STANDARDS OF GOOD PRACTICE AND CODE REGULATIONS AS DIRECTED BY THE CHIEF ELECTRICAL FOREMAN OF THE INSTITUTION.





FIRST FLOOR PLAN

SWITCHBOARD DATA

SECTION A - 220 V. DISTRIBUTION SECTION
2-100 A.-250 V.-DP.S.T. SWITCHES } IN PLACE.
1-200 A.-250 V.-DP.S.T. SWITCH } NO CHANGE.

" B - MAIN 400 A.-5000 V.-O.C.B. AND VOLTMETER-IN PLACE-NO CHANGE.

" C - 440 V. DISTRIBUTION SECTION.
2-600 A-600V.-T.P.D.T. SWITCHES.-FUSED 200 A. THESE SWITCHES SHALL BE MADE UP FROM THE PRESENT A-T.P.S.T. SWITCHES NOW LOCATED ON THIS SECTION WHICH ARE TO BE DISMOUNTED.

" D - MAIN 440 V.-O.C.B. WITH AMMETER, VOLTMETER AND METER SWITCH-IN PLACE.-NO CHANGE.

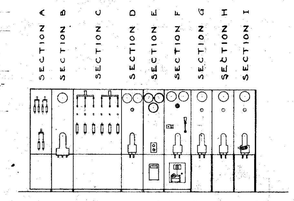
" E - PRESENT SPARE BLANK PANEL SECTION TO BE USED AS GENERATOR INSTRUMENT PANEL AND FOR MOUNTING CONTROL SWITCH WITH INDICATING LAMP FOR CONTROL OF WORKHOUSE O.C.B.; INSTALL FREQUENCY METER-POWER FACTOR METER-VOLTMETER AND WATTHOUR METER FOR GEN.

" F - GENERATOR SECTION: INSTALL PRESENT GEN. PANEL WHICH IS EQUIPPED WITH 440 V.-O.C.B.-FIELD AMMETER-GENERATOR AMMETER-FIELD SWITCH AND INSTRUMENT SWITCH. INSTALL A NEW LOWER SECTION ON PANEL AND REPROVIDE WITH A VOLTAGE REGULATOR.

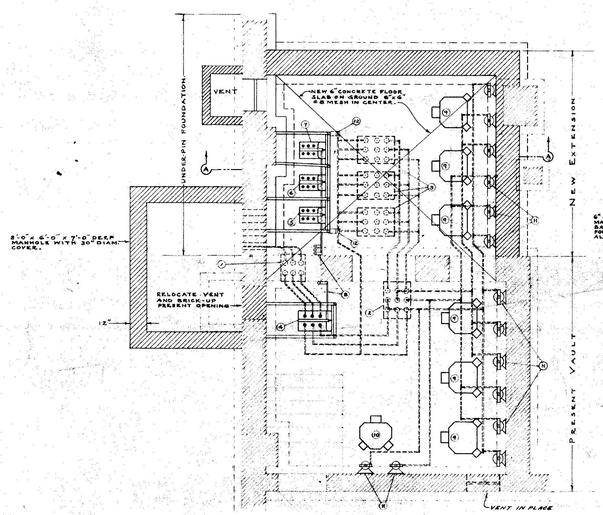
" G - 5000 V.-200A.-O.C.B.-FOR WALLED GROUP. } EACH OF THESE SECTIONS PROVIDED WITH AMMETER

" H - 5000 V.-200 A.-O.C.B.-FOR INDUSTRIAL SERVICE. } AND AMMETER TRANSFER SWITCH.-IF METERING IS NOT DESIRED AT THIS TIME, THE PANELS AND METERS MAY BE OMITTED AND O.C.B. LEVER FACE PLATES MOUNTED ON PIPE FRAMEWORK.

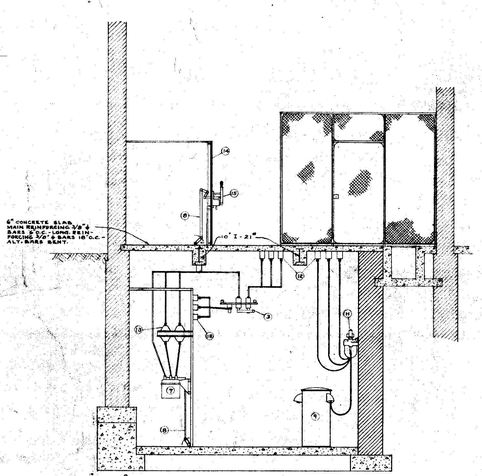
" I - 5000 V.-100 A.-O.C.B.-FOR DORMITORY GROUP. }



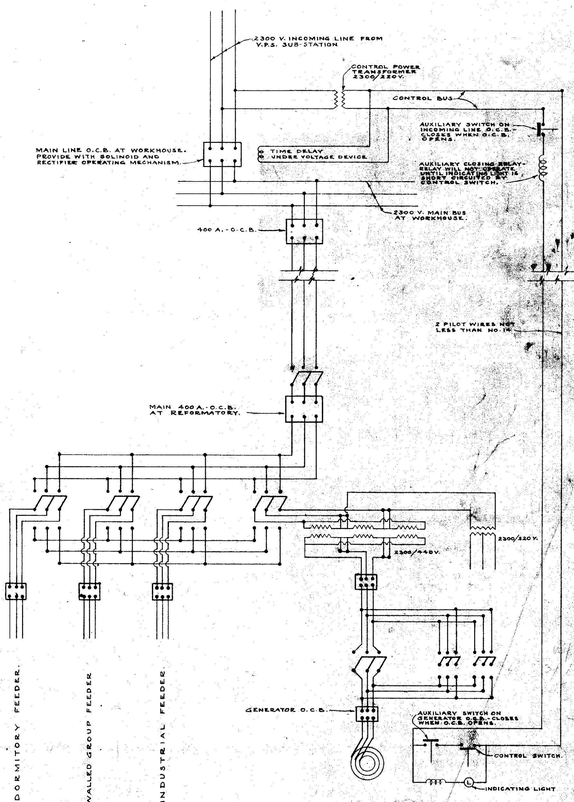
SWITCHBOARD
FRONT ELEVATION



VAULT PLAN



SECTION A-A



LINE DIAGRAM OF CONNECTIONS
No SCALE

APPROVED as to Electrical Code requirements
CHIEF ELECTRICAL INSPECTOR - D.C.
7/14/38

SCALE ¼" = 1'-0"
ELECTRICAL

APPROVED BY THE COMMISSIONERS OF THE DISTRICT OF COLUMBIA SITTING AS A BOARD	REVISIONS	WORK RECORD	BUILDING: ALTERATIONS TO VAULT AND GENERATOR ROOM - D.C. REFORMATORY.	FILE NO. 92-7
		DRAWN BY W.Q.L.	LOCATION: LORTON - VIRGINIA	
		TRACED BY W.Q.L.	OFFICE OF MUNICIPAL ARCHITECT-WASHINGTON, D.C.	DRWG. NO.
		CHECKED BY R.C.B.	CHIEF OF ARCHITECTURAL DIVISION	DATE 7/15/38
		DATE 7/15/38	CHIEF OF STRUCTURAL DIVISION	DATE 7-15-38
		SHEET	CHIEF OF MECHANICAL DIVISION	DATE 7-15-38
SECRETARY.			MUNICIPAL ARCHITECT	DATE 7-15-38