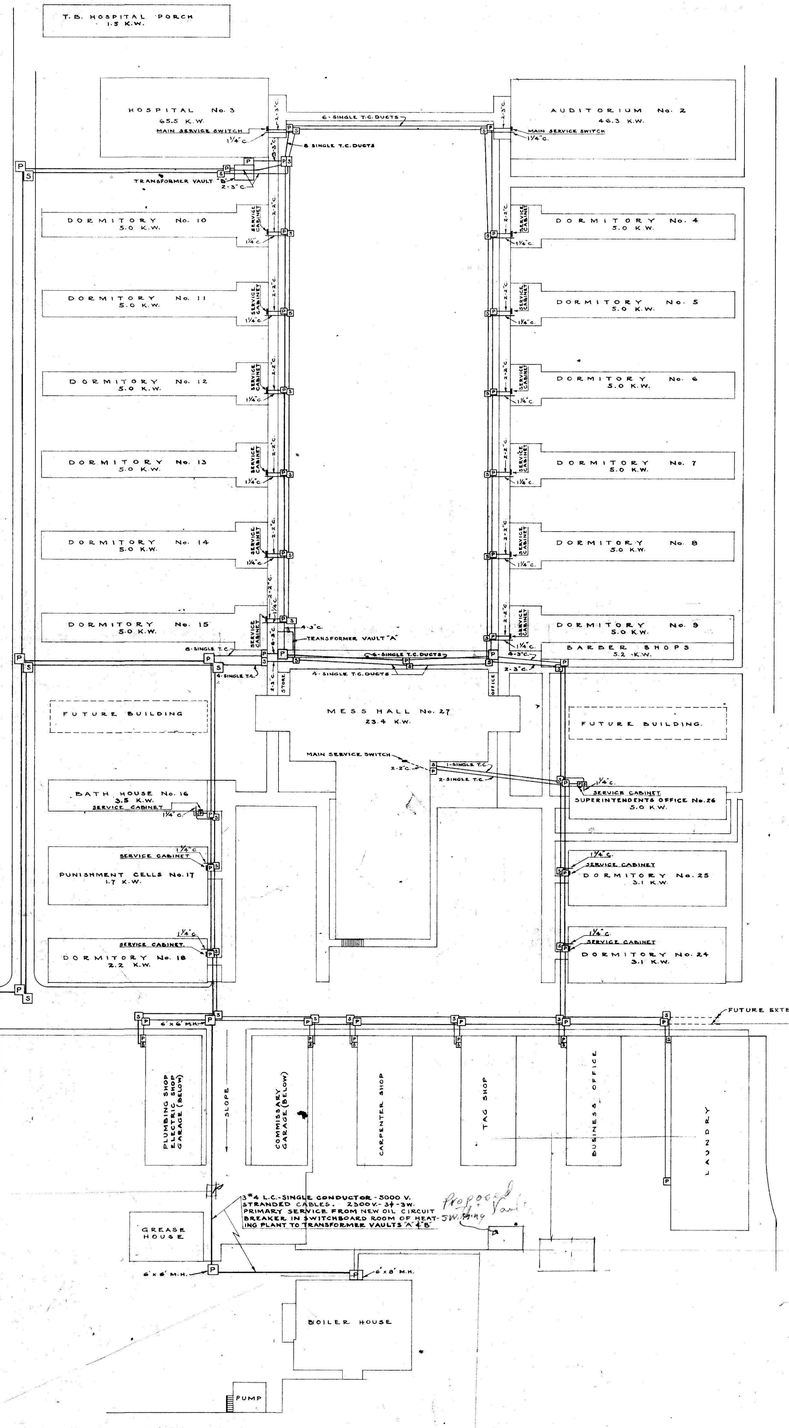

PROPOSED INDUSTRIAL FACILITY
9/14/36

GENERAL NOTES:

UNLESS OTHERWISE INDICATED POWER AND LIGHT MANHOLES, INDICATED "P", SHALL BE INTERCONNECTED BY 4 SINGLE T.C. DUCTS - AND SIGNAL MANHOLES, INDICATED "S", SHALL BE INTERCONNECTED BY 2 SINGLE T.C. DUCTS.

DUCT RUNS BETWEEN MANHOLES SHALL HAVE A SLOPE OF AT LEAST APPROX. 5 INCHES IN 100 FEET AND DRAIN TOWARD MANHOLES.

DUCT LINES SHALL NOT BE LESS THAN 18" BELOW GRADE LINE AT ANY POINT.

WHERE CONDUIT LINES CROSS WALKWAYS THAT HAVE TUNNELS BENEATH THEM THE CONDUITS SHALL CROSS IN THE FILLED SPACE BETWEEN THE WALKWAY SLAB AND THE TUNNEL ROOF. WHERE THE FILLED SPACE IS NOT SUFFICIENT TO PERMIT OF THIS THE CONDUITS MAY CROSS EXPOSED IN THE TUNNELS SUITABLY SUPPORTED ON STRAP HANGERS; HOWEVER NO SPLICE OR JUNCTION BOXES SHALL BE PERMITTED WITHIN TUNNELS.

THE NEW POWER MANHOLES FOR SERVICE LATERALS AND THE SIGNAL MANHOLES SHALL BE 3'-6" SQUARE BY APPROX. 4'-0" DEEP. ALL MANHOLES SHALL HAVE ROUND MANHOLE COVERS NOT LESS THAN 30" IN DIAMETER, OR SQUARE COVERS NOT LESS THAN 30" SQUARE - THE ROUND COVERS PREFERRED. MANHOLES THAT ARE ALREADY BUILT AND IN PLACE MAY BE REUSED IF SUITABLE AS DIRECTED. MANHOLES SHALL HAVE 8" BRICK WALLS EXCEPT THOSE LOCATED IN ROADWAYS OR DRIVEWAYS WHICH SHALL HAVE 12" BRICK WALLS WITH 6" REINFORCED SLAB FOR SEATING MANHOLE COVER FRAMES.

TWO SETS OF CONDUCTORS, EACH SET CONSISTING OF 3 #2/0 L.C. SINGLE CONDUCTOR, STRANDED, 600 V. CABLES AND A SINGLE #2 BARE COPPER STRANDED CABLE, SHALL BE DRAWN INTO TWO OF THE SINGLE DUCTS (ONE DUCT FOR EACH SET OF CABLES) BETWEEN EACH OF THE POWER MANHOLES BETWEEN EACH THE BUILDINGS FORMING A 3 PHASE 4 WIRE SECONDARY NETWORK ONTO WHICH THE SERVICES FOR THE VARIOUS BUILDINGS SHALL BE TAPPED OFF WITH SUITABLE SPLICES AND WIPED JOINTS IN ACCORDANCE WITH THE SCHEDULE OF SERVICE CONNECTIONS SHOWN ON THIS DRAWING. THE PARALLEL SETS OF FEEDERS FORMING THE NETWORK SHALL BE SPLICED TOGETHER AT THE SIX MAIN INTERSECTING CORNERS OF THE NETWORK.

THE 2300 V. -3Ø - 3 WIRE PRIMARY SERVICE FEEDING VAULT "A" SHALL BE EXTENDED TO FEED THE PRIMARIES OF THE TRANSFORMERS IN VAULT "D".

THE SECONDARIES OF EACH BANK OF TRANSFORMERS SHALL BE TAPPED ONTO THE NETWORK USING THE SAME SIZE AND NUMBERS OF CONDUCTORS AS FORMS THE NETWORK.

AS NOTED IN THE SCHEDULE OF SERVICE CONNECTIONS EACH BUILDING IS PROVIDED WITH WIRES FOR 3 PHASE 4 WIRE SERVICE, HOWEVER THE BUILDINGS AT THIS TIME SHALL ONLY BE CONNECTED ACROSS TWO OF THE PHASE WIRES AS NOTED.

CABLES SHALL BE PROPERLY ARRANGED AND RACKED IN MANHOLES WITH SUITABLE CABLE SUPPORTS TO MAKE ALLOWANCE FOR ANY CABLE EXPANSION AND TO PREVENT MECHANICAL INJURY TO CABLES.

EACH CABLE IN EACH OF THE MANHOLES SHALL HAVE A METAL IDENTIFICATION TAG SHOWING THE VOLTAGE AND PHASE.

VAULT "A" SHALL HAVE THREE 37.5 K.V.A. TRANSFORMERS AND VAULT "B" SHALL HAVE THREE 50 K.V.A. TRANSFORMERS. VAULTS "A" AND "B" ARE APPROX. 10'-0" WIDE BY 15'-0" LONG BY 9'-0" HIGH; THE DETAILS OF CONSTRUCTION BEING SIMILAR TO THOSE SHOWN FOR THE VAULT "B" ON DRAWING No. E-No. 2. THE EQUIPMENT FOR THESE VAULTS "A" AND "B" SHALL BE THE SAME AS SHOWN IN THE DETAILS ON DWG. No. E-No. 2 FOR THE VAULT "B" WHICH ARRANGEMENT OF EQUIPMENT SHALL ALSO BE TYPICALLY SCHEMATIC FOR THESE VAULTS "A" AND "B" AT THE REFORMATORY.

SEE DRAWING No. E-No. 2 FOR DUCT AND MANHOLE CONSTRUCTION WHICH DETAILS SHALL BE TYPICAL FOR THIS WORK ALSO.

Barn

Laboratory Bldg

MACHINE SHOP

Eng Warehouse

CANNERY

FOUNDRY

DORMITORY No. A

DORMITORY No. B

DORMITORY No. C

DORMITORY No. D

Garage Shed

to Residence + Office Bldg

to #9 Power

Existing

SCHEDULE OF SERVICE CONNECTIONS

BUILDING	FEEDER SIZE	PHASES	REMARKS
ASSEMBLY HALL No. 2	2-SETS EACH OF 3 #1 L.C. AND 1 #2 BARE COPPER	A - B	SEE NOTE "A"
MESS HALL No. 3	2-SETS EACH OF 3 #1 L.C. AND 1 #2 BARE COPPER	A - B	SEE NOTE "A"
DORMITORIES Nos. 4 TO 9 INCL.	3 #4 L.C. AND 1 #6 BARE COPPER	A - B	SEE NOTE "C"
DORMITORIES Nos. 10 & 11	Do.	A - B	Do.
DORMITORIES Nos. 12 & 13	Do.	A - B	Do.
DORMITORIES Nos. 14 & 15	Do.	A - B	Do.
BATH HOUSE No. 16	Do.	A - B	Do.
CELL HOUSE No. 17	Do.	A - A	Do.
DORMITORY No. 18	Do.	A - A	Do.
DORMITORY No. 24	Do.	B - C	Do.
DORMITORY No. 25	Do.	B - C	Do.
SUP'T. OFFICE No. 26	Do.	B - C	SEE NOTE "C"
MESS HALL No. 27	3 #1 L.C. AND 1 #2 BARE COPPER	A - B	SEE NOTE "A"
BARBER SHOPS	3 #4 L.C. AND 1 #6 BARE COPPER	A - B	SEE NOTE "E"
PLUMBING & ELECTRIC SHOPS	Do.	A - A	SEE NOTE "F"
COMMISSARY	Do.	A - B	Do.
CARPENTER SHOP	Do.	B - C	Do.
TAG SHOP	Do.	B - C	Do.
BUSINESS OFFICE	Do.	B - A	Do.
LAUNDRY	Do.	B - A	Do.

NOTE "A" PROVIDE A NEW 200A - 250 V. - 4 P. - 3 BLADE - S.N. - 3/4 MAIN SWITCH AND INSTALL ON INNER SIDE OF ASSEMBLY HALL WALL ADJACENT TO PRESENT MAIN DISTRIBUTION PANEL.

NOTE "B" TWO OF THE FOUR SETS OF FEEDER WIRES SHALL BE CONNECTED DIRECTLY TO THE SECONDARIES OF THE TRANSFORMERS IN VAULT "A". THE THREE TWO SETS OF FEEDERS SHALL BE TAPPED DIRECTLY ONTO THE NETWORK. PROVIDE A NEW 400 A - 250 V. - 4 P - 3 BLADE - S.N. - 3/4 MAIN SWITCH AND INSTALL ON INNER SIDE OF WALL ADJACENT TO PRESENT MAIN DISTRIBUTION PANEL.

NOTE "C" THE SERVICE CABINETS FOR THESE BUILDINGS CONSIST OF BOXES 38" WIDE BY 26" HIGH WITH HINGED DOORS BUILT IN FLUSH WITH OUTSIDE WALL OF BUILDING. THESE BOXES HOUSE A 60 A. - 250 V. - 2P. 2 BLADE - S.N. - 1¢ MAIN SWITCH OF SAFETY TYPE, AND SPACE IS PROVIDED FOR AN 8 CIRCUIT LIGHTING DISTRIBUTION PANEL. THESE CABINETS WERE FORMERLY DESIGNED AND APPROVED FOR USE ON THESE BUILDINGS.

NOTE "D" PROVIDE A NEW 200A - 250 V. - 4P - 3 BLADE - S.N. - 3/4 MAIN SERVICE SWITCH AND INSTALL ON WALL OF MESS HALL REPLACING PRESENT MAIN SWITCH. ATTENTION IS CALLED TO THE FACT THAT THIS PRESENT SERVICE TO THE ICE HOUSE AT THE REAR OF THE MESS HALL WILL HAVE TO BE REPLACED. THIS MAY BE DONE BY EXTENDING FROM THE NEW MAIN SERVICE SWITCH OR, IF THIS IS NOT FEASIBLE, THEN AS A TEMPORARY EXPEDIENT A NEW POWER MANHOLE MAY BE LOCATED BETWEEN BUILDINGS 17 AND 18 AND 2 SINGLE T.C. DUCTS WITH SERVICE WIRES EXTENDED INTO ICE HOUSE TO PRESENT MAIN SWITCH.

NOTE "E" PROVIDE A NEW 60 A - 250 V. - 3 P - 2 BLADE - S.N. - 1¼ MAIN SERVICE SWITCH AND INSTALL ON WALL IN OFFICER'S PORTION OF BARBER SHOPS.

NOTE "F" FACILITIES FOR FUTURE SERVICE CONNECTIONS ARE PROVIDED WITH THE UNDERSTANDING THAT THESE BUILDINGS ARE TO BE CONVERTED TO DORMITORIES AT WHICH TIME SERVICE CONNECTIONS SHALL BE MADE. AT THIS TIME NO SERVICE CONNECTIONS SHALL BE MADE FOR THESE BUILDINGS FROM THE NETWORK.

to Residence + Office Bldg

Existing

APPROVED: Chief Electrical Inspector - D.C. 9/29/38

PLOT - PLAN

SCALE 1" = 50'-0"

	REVISIONS	WORK RECORD	BUILDING D.C. REFORMATORY	FILE NO. 92-7
APPROVED BY THE COMMISSIONERS OF THE DISTRICT OF COLUMBIA SITTING AS A BOARD		DRAWN BY W.O.L.	LOCATION LORTON - VIRGINIA	
		TRACED BY W.O.L.	OFFICE OF MUNICIPAL ARCHITECT - WASHINGTON, D. C.	DRWG. NO.
		CHECKED BY R.C.G.	CHIEF OF ARCHITECTURAL DIVISION	DATE 9-29-38
		DATE 9-29-38	CHIEF OF STRUCTURAL DIVISION	DATE 9-29-38
SECRETARY.		SHEET	CHIEF OF MECHANICAL DIVISION	DATE 9-29-38
			MUNICIPAL ARCHITECT	DATE 9-29-38

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