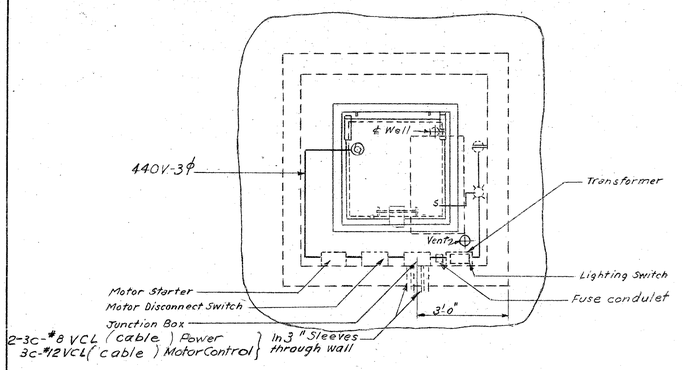
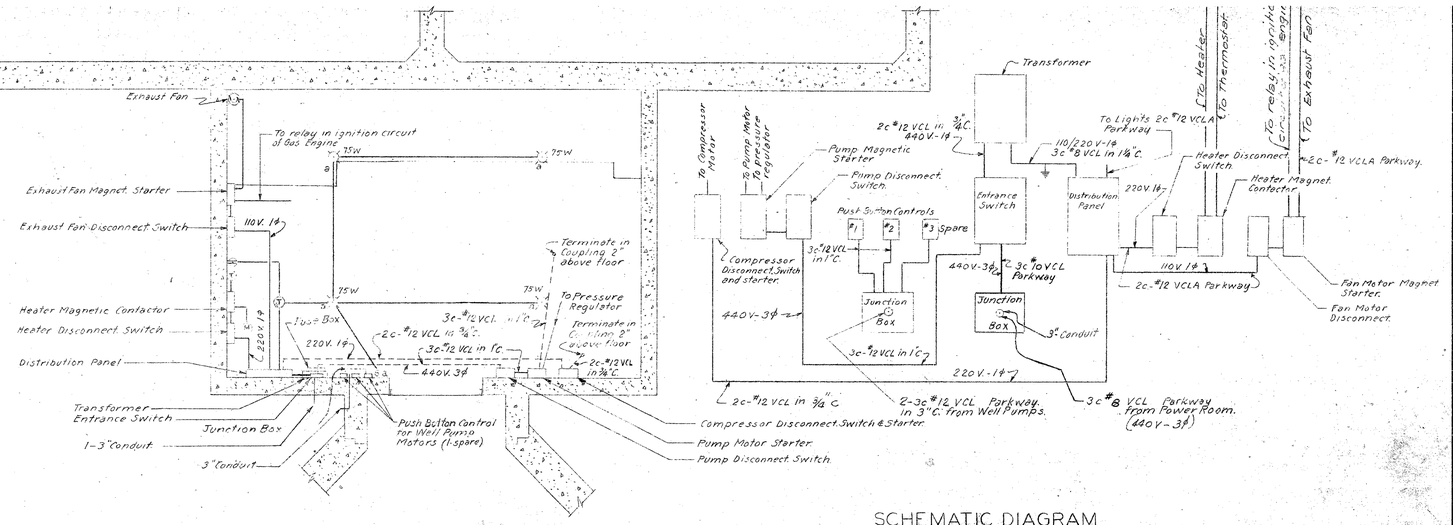
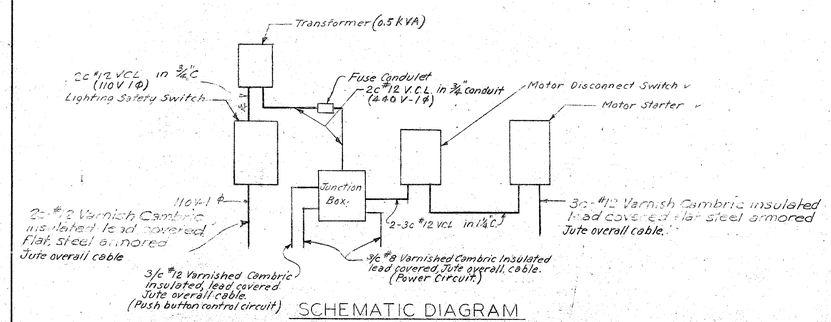


WELL PUMP HOUSE PLAN
ELECTRIC
SCALE $\frac{1}{2}$" = 1'-0"



PUMP ROOM PLAN
ELECTRIC
SCALE $\frac{3}{8}$" = 1'-0"

SCHEMATIC DIAGRAM



SCHEMATIC DIAGRAM

MATERIAL IDENTIFICATION	
Item	Material
Lighting safety switch	1-30 Amp. S.P. & S.N. 250V. fused watertight safety switch. (Fused for 15 Amp.) Similar to Trumbull #6B221 C.S.N.
Junction Box	1-Appleton #5570 Type R.S.H.X. Junction Box (3/4" Hub on top, 2-1" hubs on left side & 1-1 1/4" hub - 1-1" hub on right side.)
Motor Disconnect Switch	1-30 Amp. 575V. 3P. fused, watertight Type C Disconnect Switch (Fused for 25 Amp.) similar to Trumbull #6B361 C
Motor Starter	1-30 Amp. 3P. 440V. watertight Motor Starter similar to Trumbull #03 D1c
Light Fixture	1-Conduiet, Crouse Hinds GRFX 229 or equal. 1-Gasket, " " GASK 643 or equal. 1-Lamp fixture assembly, Crouse Hinds ARB 95 or equal.
Snap Switch	1-Condulet Crouse Hinds FS 2 or equal. 1-Gasket " " Gask 425 or equal. 1-Cover " " DS 181 or equal. 1-Switch, Bryant #4961 or equal.
Plugging in Box	1-Condulet Crouse Hinds GRFX 229 or equal. 1-Gasket " " GASK 643 or equal. 1-Receptacle " " ARB 327 or equal. 1-Plug " " BP 8522 or equal.
Transformer	1-5 KVA, 480/120V. 60~ Air cooled Transformer Similar to G.E. Type M #61519 1.
Fuse Conduiet	1-Condulet Crouse Hinds YW 8860 38 or equal. 2-Hub plates " " YYP 82 or equal. 1-Standard 2-Wire cartridge fuse outlet, 600 Volt.

MATERIAL IDENTIFICATION			
Item	Material	Item	Material
Entrance Switch	60 Amp. 3P. 575V. Fused watertight safety switch, Similar to Trumbull #6B362 C	Snap Switch	1-Condulet Crouse-Hinds FS2 or equal 1-Gasket " " Gask 425 or equal 1-Cover " " DS 181 or equal 1-Switch, Bryant #4961 or equal
Distribution Panel	Crouse Hinds DVP Panel or equal 50 Amp. 2P & S.N. Mains 2-15 Amp. 2P ——— 4-15 Amp. S.P. Branches. 6-3/4"-1 1/4" Hubs on top. 2-3/4" Hubs on right side. 2-3/4" Hubs on bottom	Junction Box (Lighting Circuit)	1-Condulet Crouse Hinds GRFX 229 or equal 1-Gasket " " GASK 643 or equal 1-Cover " " GRF 10 or equal
Junction Box (Service) (Controls)	Crouse Hinds Type RS Junction Box or equal 1-3" Tap in back, 1-1" Hub on top. 1-3" Tap in back, 3-1" Hubs on top.	Plugging in Box	1-Condulet Crouse Hinds GRFX 229 or equal 1-Gasket " " GASK 643 or equal 1-Receptacle " " ARB 327 or equal 1-Plug " " BP 8522 or equal
Heater Disconnect Switch	30 Amp. 2P. 250V. Fused watertight safety switch. Similar to Trumbull #6B221 C.	Heater	1-20 KW. Forced Convection Type Heater (weatherproof construction)
Heater Magnetic Contactor	30 Amp. 2P. 250V. Watertight magnetic contactor	Thermostat	Mercoid Thermostat Type B55 EHT or equal
Fan Disconnect Switch	30 Amp. S.P. & S.N. 250V. Fused watertight safety switch. similar to Trumbull #6B221 C. S.N.	Couplings	Crouse Hinds Type C6B Coupling Assembly or equal (Sizes as required)
Fan Magnetic Starter	30 Amp. S.P. & S.N. 115V. Watertight Magnetic Starter Similar to Trumbull #03 A1c	Cable Hangers	Fee and Mason Co. Catal. No. Fig 316 or equal
Pump Disconnect Switch	30 Amp. 3P. 575V. Fused watertight safety switch. Similar to Trumbull #6B361C.		
Pump Magnetic Starter	30 Amp. 3P. 440V. Watertight magnetic starter Similar to Trumbull #13 D1c.		
Compressor Disconnect Switch and Starter	30 Amp. 2P. 250V. Fused watertight safety switch. Similar to Trumbull #5116 Tc.		
Remote Controls	Push button stations with red pilot lights (Single pole push button switches)		
Light Fixture	1-Condulet Crouse Hinds GRFX 229 or equal. 1-Gasket " " GASK 643 or equal. 1-Fixture Assembly, Crouse Hinds ARB 91 or equal.		
Transformer	1-5 KVA, 440/220-110 Volt, 60~ Air cooled, Transformer. Similar to G.E. Type M #61633		

LEGEND

- Ceiling light Fixture
- Junction Box
- Plugging in Box
- Sa Snap Switch
- Safety Switch Panel, or Motor Control
- (H) Electric Unit Heater
- (T) Thermostat
- (M) Motor
- --- Conduit under floor
- —— 2c-#12 VCL in 3/4"C., lead covered flat steel armored, per Lynsay cable unless otherwise indicated.

NOTE:
Mount safety switches, motor control equipment and receptacle approximately 5' above floor, light fixture 6' above floor, and light switch in manhole entrance.
Remote control for Motor starter to be located in pump house.
The pilot lights on push button stations shall be energized from a local circuit in pump room.
The push button stations shall be equipped with the necessary auxiliary contacts and necessary relays shall be furnished for the pilot light operation.

RECORD DRAWING

HARBOR DEFENSES
BATTERY NO. 104
RESERVOIR WATER SUPPLY SYSTEM
WELL HOUSE & PUMP R'M. ELECTRIC SYSTEM

IN 9 SHEETS SHEET NO 9 SCALE AS SHOWN
U.S. ENGINEER OFFICE, BOSTON, MASS. NOV. 1942

No			
1	Final Field changes made for "Record Drawing"	9-21-44	Jaw

APPROVAL RECOMMENDED: John E. Allen — CHIEF WAR AND FLOOD CONTROL SUBDIVISION
APPROVED: G. W. Lull — COLONEL, CORPS OF ENGINEERS, DISTRICT ENGINEER
SUBMITTED: G. S. Brown — CHIEF DESIGN SECTION SR. ENGINEER
ASSOCIATE ENGINEER
DES. BY / DR. BY / TR. BY / CK. BY G.W.M. / E.E.C.
FILE NO. 4-8-3-10/9