

REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS
(SEARCHLIGHTS)

COAST DEFENSES OF SAN-FRANCISCO, CALIFORNIA.

FORT MILEY, CALIF.

SEARCHLIGHT NO. 3 → No 6 1

Form 4.

Corrected to OCT.1,1921

Size 60-inch Portable or fixed FIXED

PROJECTOR

Location.....: 175 ft. south of Emp.#3,
Battery Chester.
Manufacturer.....: G.E.Co.
Type of projector.....: EC 60-inch.
Form of projector.....: N 2.
Serial No. of projector...: 7986
Type of lamp.....: Sperry H-I.
Model of lamp.....: M.K.V. 4.
Serial No. of lamp.....: 150
Electric or hand control.: Electrically controlled.
Material of mirror.....: Glass.
Date received in district: July 1910.
From whom received.....: D.E., New London, Conn.
Age of mirror.....: 10 years.
Condition of mirror.....: Good.
Date last repaired.....: Resilvered Sept.1918.
Switchboard, serial No. : 77625.

INSTALLATION

: General character.....: (Exposed shelter in operating position of light)
: Date transferred to
: troops.....: September 8, 1915.
: Cost to that date.....: \$1235.09.
: Shelter.....
: Materials of construction.: Wood frame with g.i.sheathing.
: Interior dimensions.....: 10' x 15'6" x 10'9" high.
: Height and type of tower...: No tower installed.
: Means by which projector
: is placed in operating
: position.....: Opening four doors at front of shelter.
: Reference axis of projector :
: in operating position.....: 307.5 M.L.L.W.
: Kind of protection in
: operating position.....: No protection.
: Concealment of day shelter :
: from approach channel.....: Not concealed.
: Dates & cost of extensive
: remodeling or reconstruc-
: tion.....: No remodeling.

POWER PLANT

: Location.....: On right flank of Emp. #1,
Battery Chester.
: Maximum demand KW.....: 18-k.w.
: Type and size.....: Stand.25-k.w.gas motor set.***

CONTROLLERS

: Location.....: C Miley.
: Type.....: G.E.Co. E.C.
: Form.....: N 2.
: Serial No.: 5968
: How protected or con-
: cealed.....: Earth parapet.

① See 475.1 (9th C.A.) :-
No. 10 - Present approved H.D. project.
No. 6 - Designated locally and referred in H.D. project as "Old number".
No. 3 - Designation when originally installed.

CABLES #

Power plant to searchlight
Type.....: L.C., unarmored.
Length and size.....: 699' Two 4/0-1-cond.
In conduits or in air....: In conduit and trench.*
Controller to light.....
Type.....: L.C., armored.
Length and size.....: 618 ft. 9 conductor.
In conduit or in air.....: In trench and conduit.**
Aux. controller to light.: No aux. controller.
Length and size.....: —
In conduit or in air.....: —

If in conduit state No. of ducts and manholes.

If trenched, state whether cable has armor.

* 249 feet in conduit—6 and 8 ducts, 2 manholes—431 ft. in trench protected by redwood planking—19 ft.l.c., unarm., in (shelter.

** 92 feet in conduit—12 ducts, 1 manhole—526 ft. in trench protected by redwood planking.

*** The above plant has two 25-k.w. gas motor sets connected so that either set can operate either light #3 or #4; in addition #3 light may receive power from Battery Chester plant.

REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS
(SEARCHLIGHTS)

COAST DEFENSES OF SAN FRANCISCO, CALIFORNIA.
FORT MILEY

SEARCHLIGHT NO. (4.) No. 5 (1)

Form 4.

Corrected to Sept. 15, 1927. Size 60-inch Portable or fixed Fixed

PROJECTOR

Location.....: In storage, Fort Miley. *
Manufacturer.....: General Electric Co.
Type of projector.....: E.C. 60-inch.
Form of projector.....: N 2.
Serial No. of projector...: 7987
Type of lamp.....: Sperry H-I.
Model of lamp.....: M.K.V. 4.
Serial No. of lamp.....: 138
Electric or hand control.: Electric and hand control.
Material of mirror.....: Glass.
Date received in district: July 11, 1910.
From whom received.....: D.E., New London, Conn.
Age of mirror.....: 17 years.
Condition of mirror.....: Good.
Date last repaired.....: Resilvered January, 1918.
Switchboard, serial No. : 77623

INSTALLATION

: The shelter has been moved from
: General character.....: its former site to a temporary position at Fort Miley, in accordance
: Date transferred to : troops.....: with authority granted by the Secy.
: Cost to that date.....: of War (C. of E. 470.35 (S.F.) 26/1),
: Shelter.....: the reinstatement of the light be-
: Materials of construction.: ing in abeyance pending decision as
: Interior dimensions.....: to its new site (17th Ind. on C. of E.
: Height and type of tower....: 470.35 (S.F.) 26). The mirror, train-
: Means by which projector : ing mechanism, switchboard, etc., have
: is placed in operating : been removed from the shelter and
: position.....: placed in storage. The projector
: Reference axis of projector : base, trunnion arms, barrel, etc., are
: in operating position.....: stored in the shelter. The power,
: Kind of protection in : controller and telephone cables are
: operating position.....: in position to within about 100 ft.
: Concealment of day shelter : of the former site of the shelter,
: from approach channel.....: the ends being returned to the
: Dates & cost of extensive : point in question and coiled pending
: remodeling or reconstruc- : rerouting to the new site of the
: tion.....: shelter.

POWER PLANT

: Location.....: Right flank of Emp. #1, Battery
: Maximum demand KW.....: 18-K.W.
: Type and size.....: Stand. 25-k.w. gas motor set. *

CONTROLLERS

: Location.....: F. Miley.
: Type.....: G.E. Co. E.C.
: Form.....: N 2.
: Serial No.: 5949.
: How protected or con- :
: cealed.....: Earth parapet.

(1) See 475.1 (9th C.A.) 11-
No. 9 - Present approved H.D. project.
No. 5 - Designated locally and referred in H.D. project as "Old numbers".
No. 4 - Designation when originally installed

CABLES # former site of
Power plant to searchlight
Type.....: 295' l.c. arm.: 19' l.c.,
Length and size.....: 314' two 4/0 l-cond. unarmored.
In conduits or in air.....: In trench protected by plank.
Controller to light.....: former site of
Type.....: L.C., arm. cable.
Length and size.....: 735 ft., 9 cond.
In conduit or in air.....: In trench protected by plank and in 4 to 12 duct
Aux. controller to light.: 2 M.H.
Length and size.....: No aux. controller installed.
In conduit or in air.....:

If in conduit state No. of ducts and manholes.

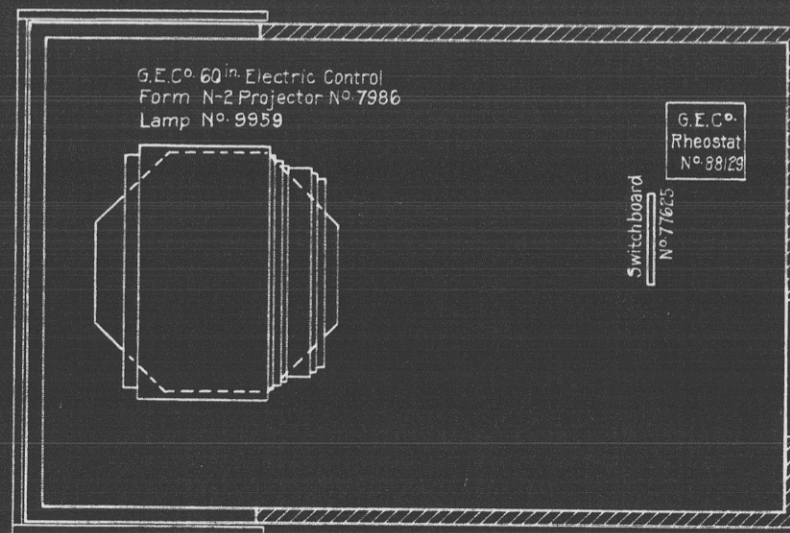
If trenched, state whether cable has armor.

* The above plant has two 25-k.w. gas motor sets, connected so that either set can supply current to either Light #3 or Light #4. The switchboard is also arranged so that current from the Battery Chester power plant can supply current to S. L. No. 4.

* See 470.31 A - 2302, 12/13/38
No longer in storage.

* See Index Plot for May 22, 1927. S. L. No. 4.

SHELTER
SEARCHLIGHT N° 3 FT. MILEY
SAN FRANCISCO, CAL.



NOTE:~ For details of plant see
 Transfer Plan 6-6-8 E.D. 38970/317

SHELTER
SEARCHLIGHT N° 3 FT. MILEY
SAN FRANCISCO, CAL.

SCALE: ~ 1/4 IN. = 1 FT.



REPORT OF COMPLETED WORKS * SEACOAST FORTIFICATIONS
(Electric Plants)

COAST DEFENSES OF SAN FRANCISCO, CAL.

FORT MILEY

POWER FOR SEARCHLIGHTS NOS 3 & 4 (60")** → 5 + 6 ①

Form 5.

Corrected to OCT.1,1921.

	Serial No.	Type	Size	Mfr.	Date of transfer	Cost	Con- dition	RPM	Belt or Direct Drive	Radiator: for Engine No.	Fuel	Switchboard		
												Material	No. of Panels	Gen. Feed
Boiler No.1														
No.2														
No.3														
Engine No.1	10880	GM 12	43/54 HP	G.E.Co.	9/8/15	\$3220.70	Good	560	Direct		gasln.			
No.2	5490	do.	do.	do.	4/25/11	\$3494.80	do.	do.	do.		do.	115 DC	2	No
No.3												115 DC	2	No
Generator														
No.1	448733	MPC 6	25-k.w.	do.	9/8/15	*	do.	do.	do.					
No.2	189208	do.	do.	do.	4/25/11	#	do.	do.	do.					
No.3														
Radiator														
No.1	10249	F.F.54		do.	9/8/15	*	do.	1150	do.	1				
No.2	None			Long-Turney	4/25/11	#	do.	1050	do.	2				
No.3														
Motor-generator														
No.1														
No.2														
No.3														
Switchboard	102	#3 sheet	40"x82"	Walker Co.	4/25/11	#	do.					Marble	2	
Storage Battery														
Transformer														
No.1														
No.2														
No.3														
Auxiliaries														
No.1														
No.2														
No.3														

DISTRIBUTION OF K.W. S.L.#3 - 18-k.w.; S.L.#4 - 18-k.w.; Power plant .54-k.w.; Shelters .43-k.w.--TOTAL 36.96 k.w.

#Cost includes Engine, radiator, generator and Switchboards.

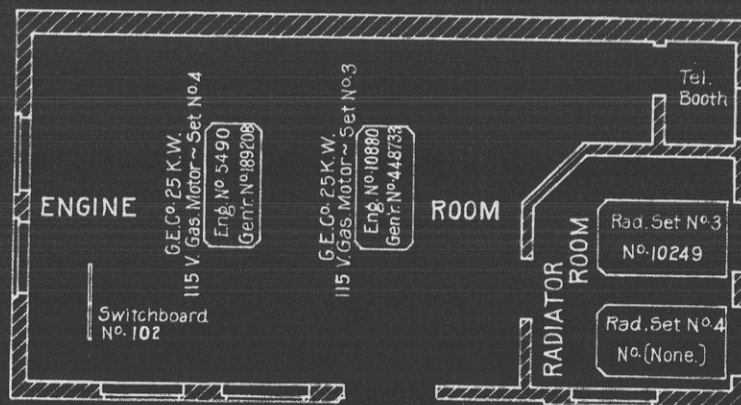
*Cost includes Engine, radiator and generator.

**Plant can also supply current to Battery Chester switchboard.

① With 675.1 (9th C.A.) 1 :-
No. 9 + No. 10 - Present approved H.D. project
No. 5 + No. 6 - Designated locally and referred in H.D.
project as "Old numbers"
No. 4 + No. 3 - Designation when originally installed.

* See [illegible] [illegible] [illegible] [illegible] [illegible]

POWER PLANT
SEARCHLIGHTS Nos. 3 & 4 Ft. MILEY
SAN FRANCISCO, CAL.



NOTE: ~ For details of plant see
 Transfer Plan 6-6-8 E.D. 38970/317

370 Gallon
 Gasoline Tanks
 (Cross connected)

POWER PLANT
SEARCHLIGHTS Nos. 3 & 4 Ft. MILEY
SAN FRANCISCO, CAL.

SCALE: ~ $\frac{1}{8}$ IN. = 1 FT.

10 9 8 7 6 5 4 3 2 1 0 10 FT.