REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS
(Searchlights)

HARBOR DEFENSES OF PUGET SOUND.
FORT WORDEN, WASHINGTON.
SEARCHLIGHT NO. U. S. A. 60,232
Size 36", mobile. (MACK TRUCK)

Form 4 Corrected to February 19, 1940.

PROJECTOR:		:INSTALLATION:	
Location	:Fort Worden, Salvage	: General character	:Mack saerchlight truck com-
			:plete with 36" projector
Manufacturer	:General Electric Co.	: Date of transfer to troops	:Feb. 8, 1931
Type of projector	:HC 36 (Barrel)	: Cost to that date	: Not known
Form of projector	:N 17	: Shelter	:None
Serial No. of projector	:21,948 - DL 1916406		
Type of lamp	:Sperry 36" S.L.	:POWER PLANT	
Model of lamp	:Mark III. Mod. 9	: Location	:On truck
Serial No. of lamp	:620	: Maximum demand KW	:15
Electric or hand control	:Hand	: Type and size	:Engine No. 574-48 of Mack
Date received in Har. Def.	:Feb. 8, 1931		:Truck connected to Burke
From whom received	:HD of Columbia		:Elec. Co. 15KW D.C. Gener-
MIRROR:			:ator No. 84,040, rated 900
Date purchased	:Not known		:RPM, 115 Volts, 130 Amps.
Present condition	:Good		:U.S.A. Order No. No record.
Date last repaired	:No repairs		
SWITCHBOARD, Serial No.	:None	:CONTROLLER:	:None
CABLES: Power Plant to S.L.		:REMARKS:	:This unit, less projector,
Type	:Duplex, braided		:placed on I&I Report by Auth.
Length and size	:400', No. 1 stranded		:C. of E. Telegram 12/22/39.
In conduits or in air	:Air		:I&I Report completed 1/23/40
			:and unit, less projector,
			:turned in to salvage. H.D. Art.
			:Engr. Voucher 231½ CV40.
			:Projector retained for use
			:with G.E. Portable Power Units
			:Nos. W-0626, W-0627, W-0628

SPECIAL NOTES: Chief of Engineers Special Transport Body Model 1918, Serial No. 267. Chassis No. 1132766, chassis weight 9000 lbs. Maximim weight of body 2000 lbs. Live load capacity 11,000 lbs.

This item is discontinued.

REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS
(Searchlights)

HARBOR DEFENSES OF PUGET SOUND,
FORT WORDEN, WASH.
SEARCHLIGHT NO. NO NUMBER.
Size 36" Mobile. (MACK TRUCK)

Form 4. Corrected to December, 1932.

PROJECTOR		INSTALLATION	
Location	Shelter; None. Now in Balloon hangar	General character	Mack searchlight truck complete with 36" projector U.S.No.60232.
Manufacturer	General Elec.Co.		
Type of of projector	HC 36	Date shelter transferred to troops	
Form of projector	N 17		None.
Serial No. of projector	21948 - DL 1916406	Cost to that date of shelter	None.
Type of lamp	Sperry Gyr. 36" S.L.lamp		
Model of lamp	Mark III. Mod.9	Shelter:	
Serial No. of lamp	620	Materials of construction	None constructed.
Electric or hand control	Hand	Interior dimensions	" "
Date received in district	Feb. 8,1931.	Height and type of tower	No tower
From whom received	H. Def. of Col.	Concealment of day shelter from approach channel	~~None~~
Material of mirror	Glass	Dates and cost of extensive remodelling or reconstruction	
Age of mirror	Not known		
Condition of mirror	Good		
Date last repaired	No repairs		
Switchboard, Serial No.	None		
CABLES		POWER PLANT	
Power plant to searchlight:		Maximum demand KW	15
Type	Duplex braided	Type and size	Engine (No.574-48) of Mack truck connected to Burke Elec. Co. 15 KW D.C. Generator #84040, rated 900 RPM, 115 V. 130 Amps. USA Order No. No record
Length & size	400 ft. No.1 stranded copper		
In conduits or in air	Air		

SPECIAL NOTES: Chief of Engineers Special Transport Body Model 1918, Serial No.267, Chassis No. 1132766, chassis weight 9000 lbs. Maximum weight of body 2000 lbs. Live load capacity 11,000 lbs.

SUPERSEDED:- See Form 4, corrected to Feb 11, 1943

REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS
(Searchlights)

HARBOR DEFENSES OF PUGET SOUND.
FORT WORDEN, WASHINGTON.
SEARCHLIGHT NO. U. S. A. 60,503
Size 36", mobile. (MACK TRUCK)

Form 4. Corrected to Ferbruary 19, 1940.

PROJECTOR:		INSTALLATION:	
Location	Fort Worden, Salvage	General character	Mack searchlight truck complete with 36" projector
Manufacturer	General Electric Co.	Date of transfer to troops	May 18, 1920
Type of projector	HC 36" (Barrel)	Cost to that date	Not known
Form of projector	N 17	Shelter	None
Serial No. of projector	21,953 - DL 1916406		
Type of lamp	Sperry 36" S. L.	POWER PLANT:	
Model of lamp	Mark III. Mod. 9	Location	On truck
Serial No. of lamp	630	Maximum demand KW	15
Electric or hand control	Hand	Type and size	Engine No. 61-914-10 of Mack Truck connected to Roth Bros. & Co. 15-17 KW D.C. Generator No. 41954, rated 900 RPM 115 Volts, 130-150 Amps. U.S. A. Order No. 21,349
Date received in Har. Def.	May 18, 1920		
From whom received	U.S.Recruiting Sta., Spokane, Wn.		
MIRROR:			
Date purchased	Not known		
Present condition	Good		
Date last repaired	No repairs		
SWITCHBOARD, Serial No.	None	CONTROLLER:	None
CABLES: Power Plant to S.L.		REMARKS:	This unit, less projector, placed on I&I Report by Auth. C. of E. Telegram 12/22/39. I&I Report completed 1/23/40 and unit, less projector, turned in to salvage. H.D. Art. Engr. Voucher 231½ Cv40. Projector retained for use with G.E. Portable Power Units Nos. W-0626, W-0627, W-0628.
Type	Duplex, braided		
Length and size	400', No. 1 stranded		
In conduits or air	Air		

SPECIAL NOTES: Chief of Engineers Special Transport Body Model 1918. Serial No. 122. Chassis No. 1132621, chassis weight 9000 lbs. Maximum weight of body 2000 lbs. Live load capacity 11,000 lbs.

This item is discontinued.

REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS
(Searchlights)

HARBOR DEFENSES OF PUGET SOUND,
FORT WORDEN, WASH.
SEARCHLIGHT NO. NO NUMBER.
Size 36". MOBILE. (MACK TRUCK)

Form 4. Corrected to December,1932.

PROJECTOR		INSTALLATION	
Location	Shelter: None. In Balloon Hangar	General character	Mack Searchlight truck complete with 36" projector, U.S.No.60503.
Manufacturer	General Electric Co.		
Type of projector	H.C.36		
Form of projector	N 17	Date shelter transferred to troops	Not transferred. No shelter.
Serial No. of projector	21953 - DL1916406	Cost to that date of shelter	No shelter.
Type of lamp	Sperry 36" S.L.lamp		
Model of lamp	Mark III. Mod. 9	Shelter:	
Serial No. of lamp	630	Materials of construction	None constructed.
Electric or hand control	Hand	Interior dimensions	" "
Date received in district	May 18,1920	Height & type of tower	No tower
From whom received	U.S.Recruiting Sta.,Spokane,Wn.	Concealment of day shelter from approach channel	~~None~~
Material of mirror	Glass	Dates and cost of extensive remodelling or reconstruction	~~None~~
Age of mirror	Not known		
Condition of mirror	Good		
Date last repaired	No repairs		
Switchboard, Serial No.	None		

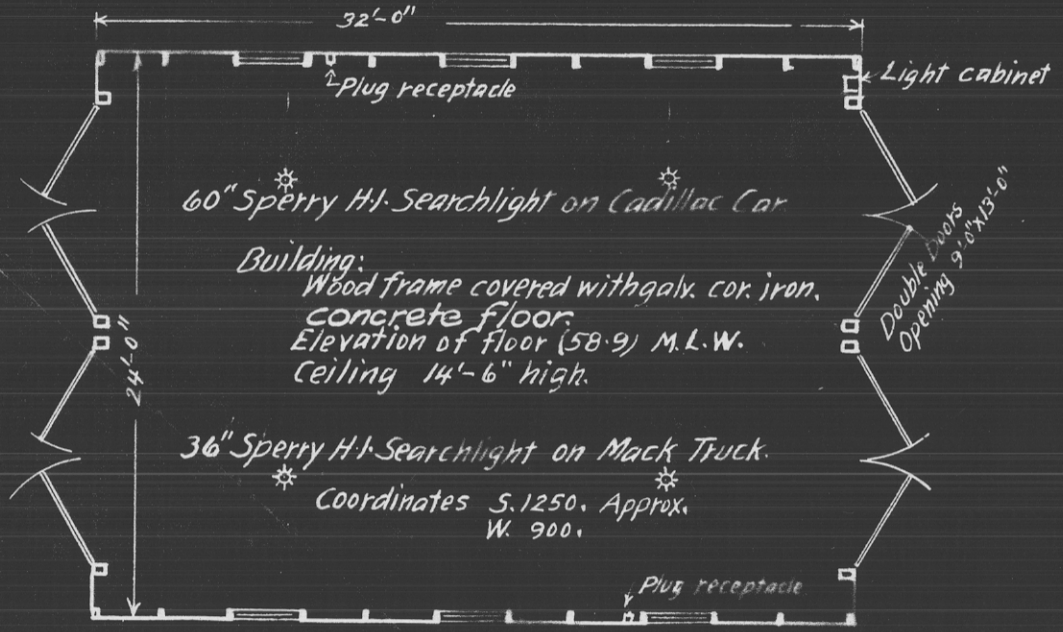
CABLES		POWER PLANT	
Power plant to searchlight:		Maximum demand KW	15
Type	Duplex, braided	Type and size	Engine(No.61-914-10) of Mack truck connected to Roth Bros. & Co. 15-17 KW D.C.Generator #41954,rated 900 RPM 115 Volts, 130-150 Amps. USA Order No.21349.
Length and size	400 ft. No.1, stranded copper		
In conduits or in air	Air		

SPECIAL NOTES: Chief of Engineers Special Transport body Model 1918, Serial No. 122, Chassis No. 1,132,621, chassis weight 9000 lbs. Maximum weight of body 2000 lbs. Live load capacity 11,000 lbs.

SUPERSEDED:- See P.M.A. [illegible]

REPORT OF COMPLETED WORKS—SEACOAST FORTIFICATIONS.
(Searchlights)
Corrected to December, 1932.

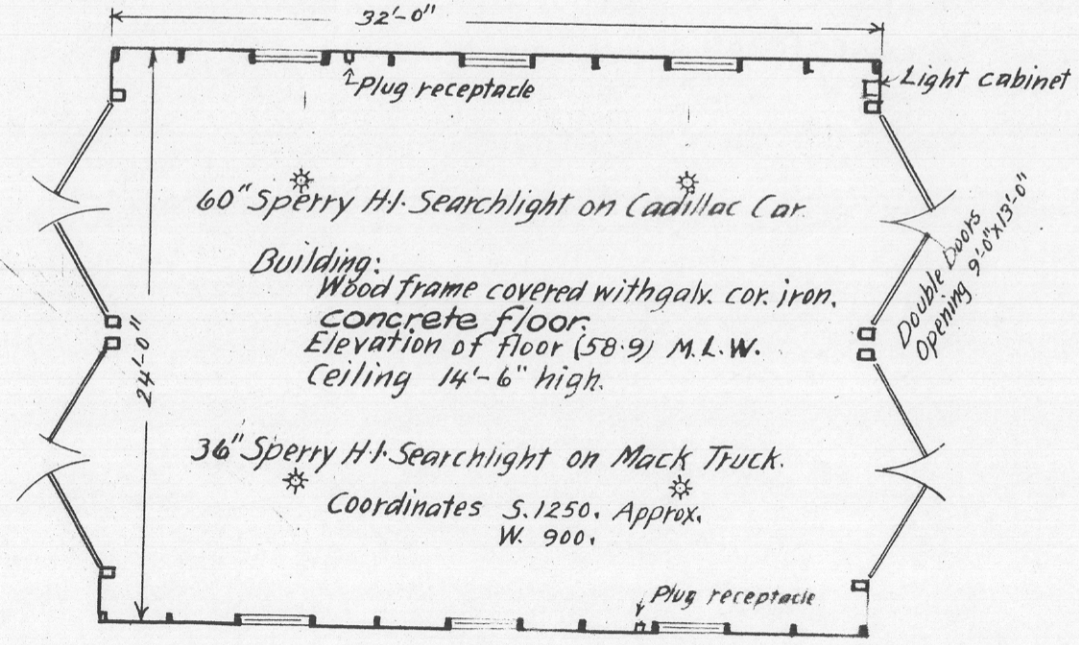
HARBOR DEFENSES OF PUGET SOUND.
FORT WORDEN, WASHINGTON.
SHELTER FOR MOBILE SEARCHLIGHTS.
Scale $\frac{1}{8}$" = 1' 12" 0 5' 10' 15'



15

REPORT OF COMPLETED WORKS—SEACOAST FORTIFICATIONS.
(Searchlights)
Corrected to December, 1932.

HARBOR DEFENSES OF PUGET SOUND.
FORT WORDEN, WASHINGTON.
SHELTER FOR MOBILE SEARCHLIGHTS.
Scale 1/8" = 1'



15

REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS
(Searchlights)

HARBOR DEFENSES OF PUGET SOUND
FORT WORDEN, WASH.
PORTABLE SEARCHLIGHTS SHELTER

Form 4 Corrected to September 13, 1937.

STRUCTURE:		
Location	S.W. Quarter of Reservation	This report covers a building only,
Coordinates, center, east end	S.2291.71, W.470.54	designed as a storehouse for six
Date of transfer	September 13, 1937.	portable searchlights.
Cost to that date	$5,000.00	
Type of construction		
(a) Roof and sides	#20 gauge corrugated steel, galv.	
(b) Frame	Structural steel	
(c) Floor	Concrete, 6" thick	
How concealed	Native trees, except east end	
How protected	No protection	
Height above concealment	None	
Height above protection	-	
Conspicuous at _____ yards	500, east end only	
ELECTRIC CURRENT:		
Source of	Central Power Plant	
Kilowatts required	4	
Type of lighting fixtures	Commercial	
HEAT:		
How heated	Electric heaters in two end rooms	
WATER & SEWER:		
Connected to water mains	Yes. One outside hose bibb, east end	
Connected to sewer	No	
Type of latrine	No latrine	
Permanent or temporary installation	Permanent	
Present condition	Excellent	
REFERENCE:		Photostat copy of blue print sent to D.E. Honolulu, on 662B (Oahu) confidential dated Sept. 30 1938
Reference of site(floor)	33.5	
Datum	M.L.W.	
Origin of coordinates	C1F1	

With 660 B (Puget Sound) 65 Incl. 2

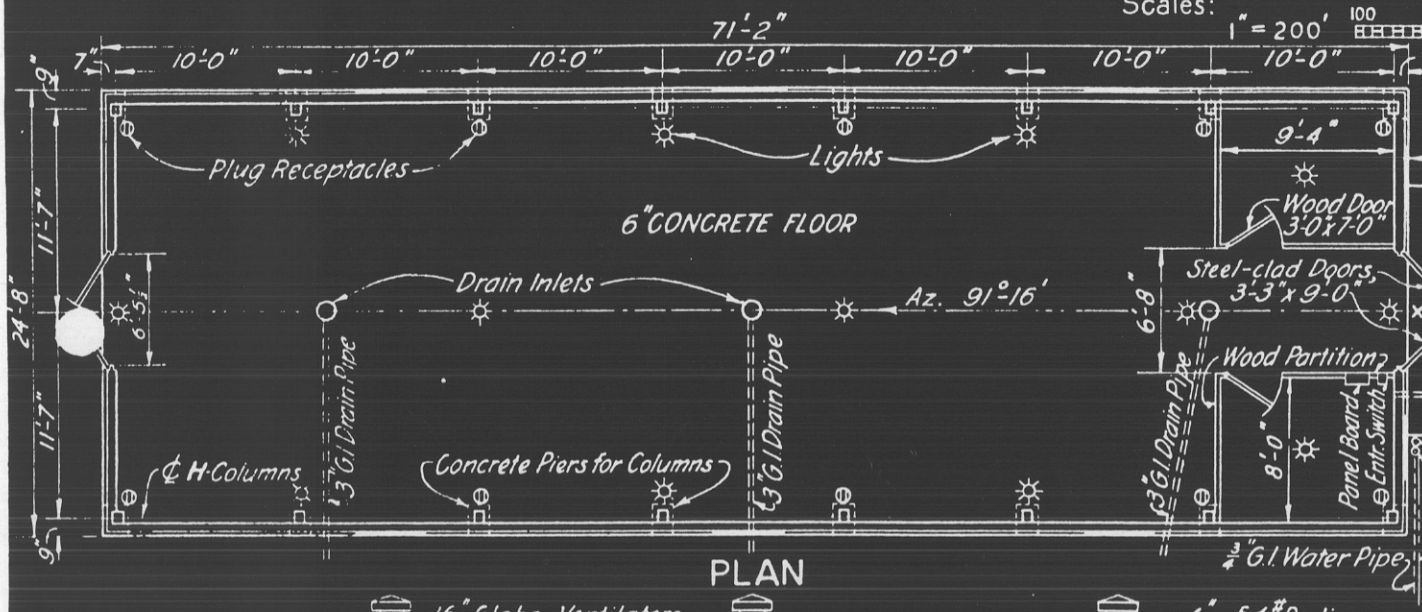
SUPERSEDED - See Form 4, corrected to Oct. 1, 1940

REPORT OF COMPLETED WORKS – SEACOAST FORTIFICATIONS
(Searchlights)

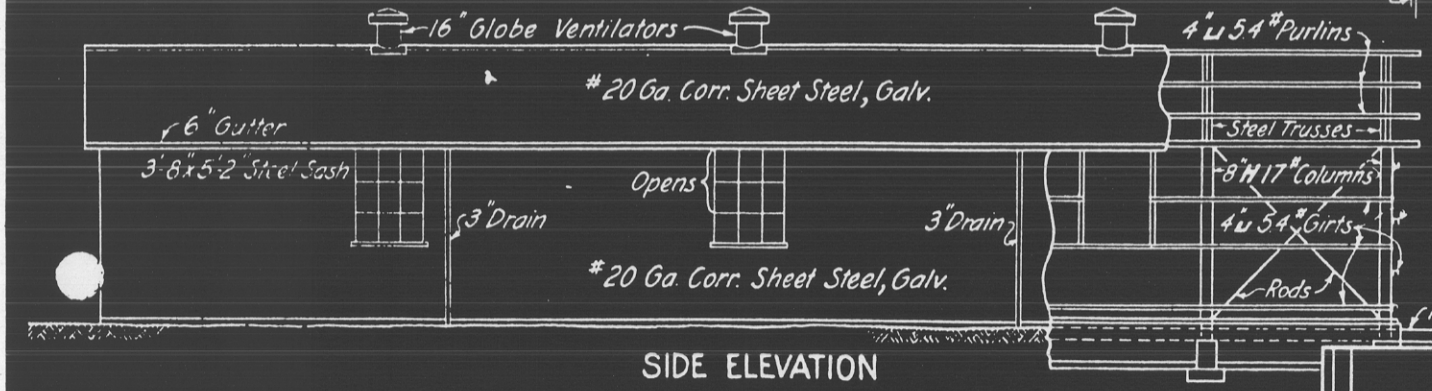
HARBOR DEFENSES OF PUGET SOUND
FORT WORDEN, WASHINGTON.
PORTABLE SEARCHLIGHTS SHELTER

FORM 4. Corrected to Sept. 13, 1937.

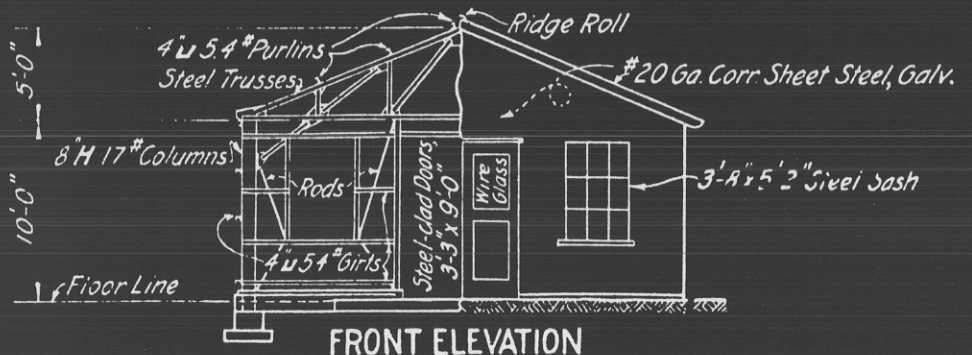
Scales: $\frac{3}{32}" = 1'$ 1 0 5 10 15 20 25 30 FEET
$1" = 200'$ 100 0 100 200 300 400 500 FEET



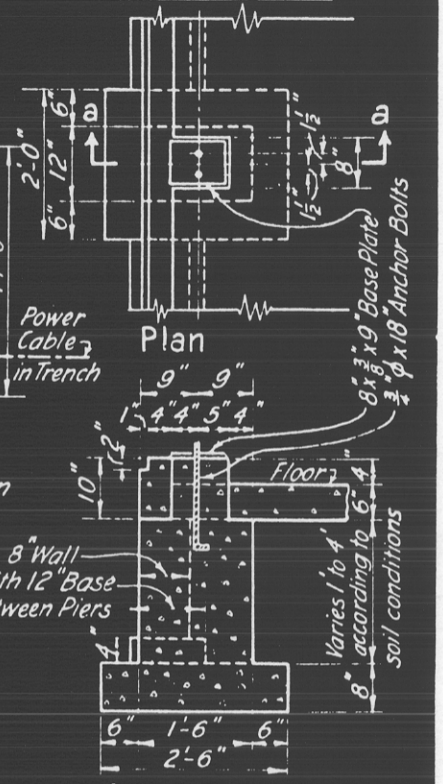
PLAN



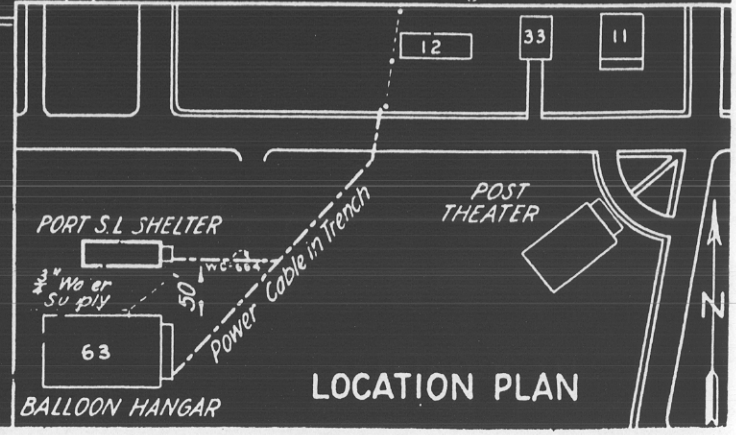
SIDE ELEVATION



FRONT ELEVATION



TYPICAL CONC. PIER FOR COLUMNS
Scale $\frac{3}{8}" = 1'-0"$



LOCATION PLAN

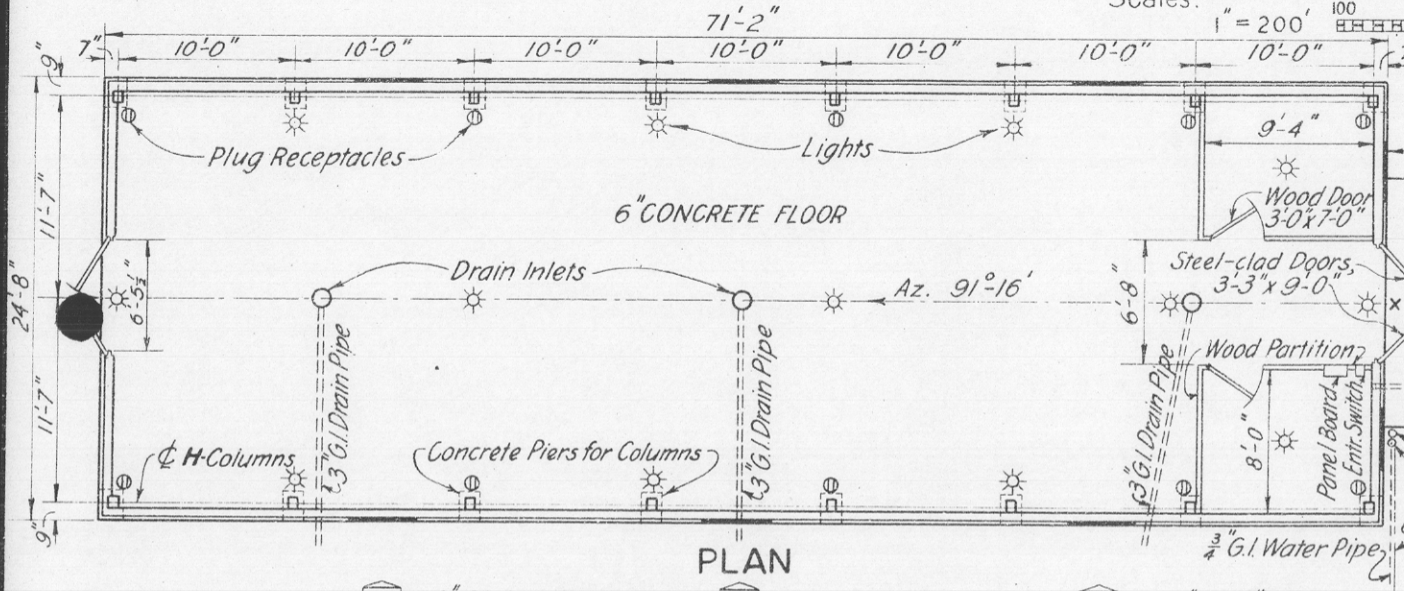
REPORT OE COMPLETED WORKS – SEACOAST FORTIFICATIONS
(Searchlights)

FORM 4. Corrected to Sept. 13, 1937.

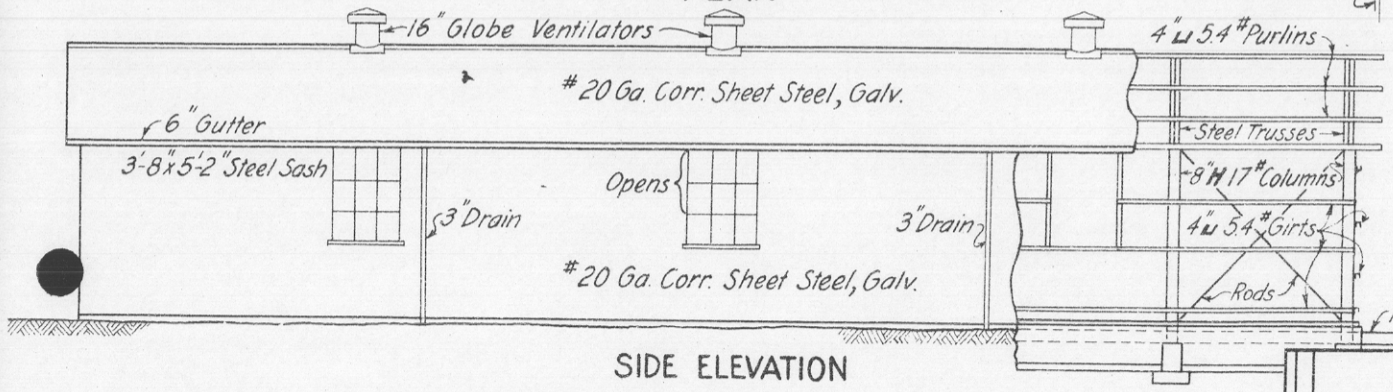
HARBOR DEFENSES OF PUGET SOUND
FORT WORDEN, WASHINGTON.

PORTABLE SEARCHLIGHTS SHELTER

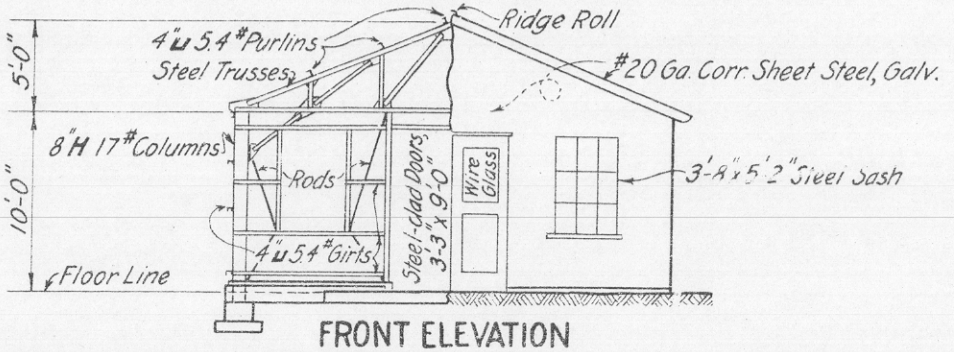
Scales: $\frac{3}{32}" = 1'$ 1 0 5 10 15 20 25 30 FEET
$1" = 200'$ 100 0 100 200 300 400 500 FEET



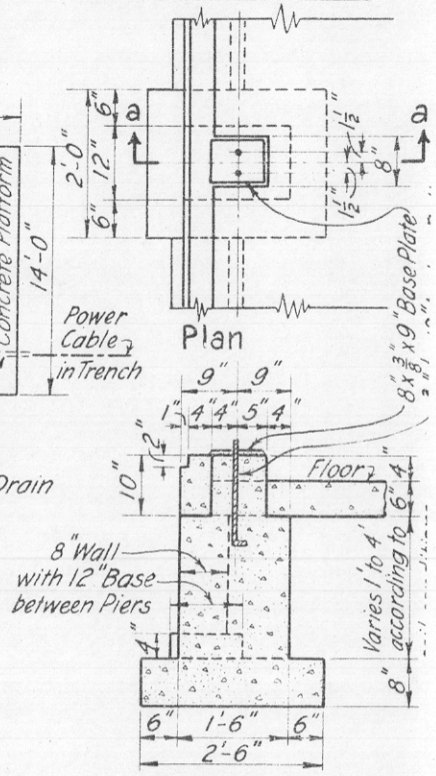
PLAN



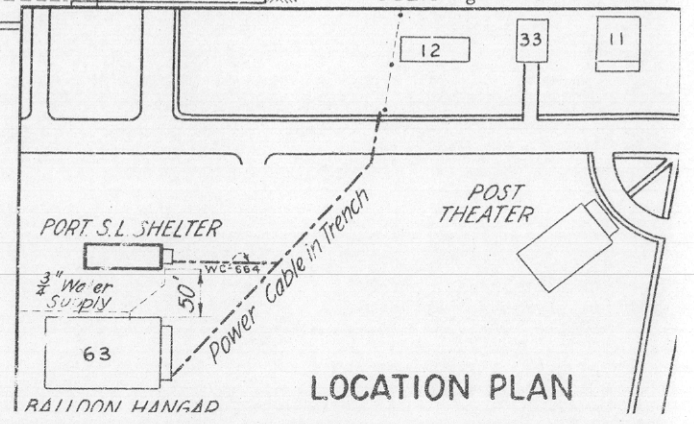
SIDE ELEVATION



FRONT ELEVATION



TYPICAL CONC. PIER FOR COLUM
Scale $\frac{3}{8}" = 1'-0"$



LOCATION PLAN

REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS.
(Searchlights)
Form 4. Corrected to July 1, 1939.

HARBOR DEFENSES OF PUGET SO[illegible].
FORT WORDEN, WASHINGTON.
PORTABLE SEARCHLIGHTS SHELTER NO. 1

STRUCTURE		This report covers a building only, designed as a storehouse for six portable Searchlights
Location	S.W. Quarter of Reservation	
Coordinates, center, east end	S. 2291.71, W. 470.54	
Date of transfer	September 13, 1937.	
Cost to that date	$5,000.00	
Type of construction		
(a) Roof and sides	#20 gauge corrugated steel, Galv.	
(b) Frame	Structural steel	
(c) Floor	Concrete,6" thick	
How concealed	Native trees, except east end	
How protected	No protection	
Height above concealment	None	
Height above protection	-	
Conspicuous at yards	500, east end only	
ELECTRIC CURRENT		
Source of	Commercial	
Kilowatts required	4	
Type of lighting fixtures	Commercial	
HEAT		
How heated	Not heated	
WATER & SEWER		
Connected to water mains	Yes, one outside hose bibb, east end	
Connected to sewer	No	
Type of latrine	No latrine	
Permanent or temporary installation	Permanent	
Present condition	Excellent	
REFERENCE		
Reference of site (floor)	33.5	
Datum	M.L.W.	
Origin of coordinates	C1F1	

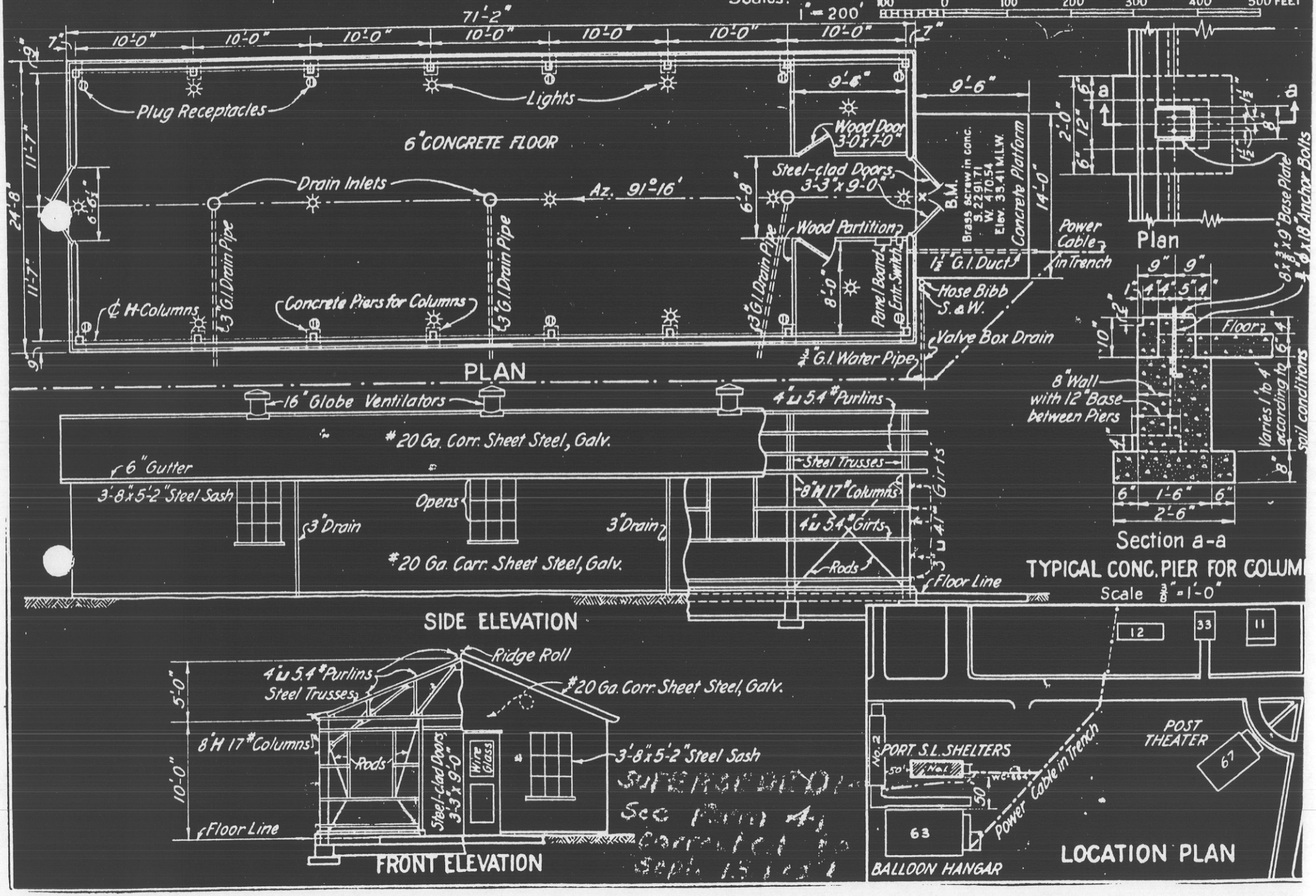
SUPERSEDED - See Form [illegible]
Corrected to Sept 15, 1937

REPORT — COMPLETED WORKS — SEACOAST FORTIFICATIONS
(Searchlights)

HARBOR DEFENSES OF PUGET SOUND
FORT WORDEN, WASHINGTON.
PORTABLE SEARCHLIGHTS SHELTER NO. 1

FORM 4. Corrected to July 1, 1939

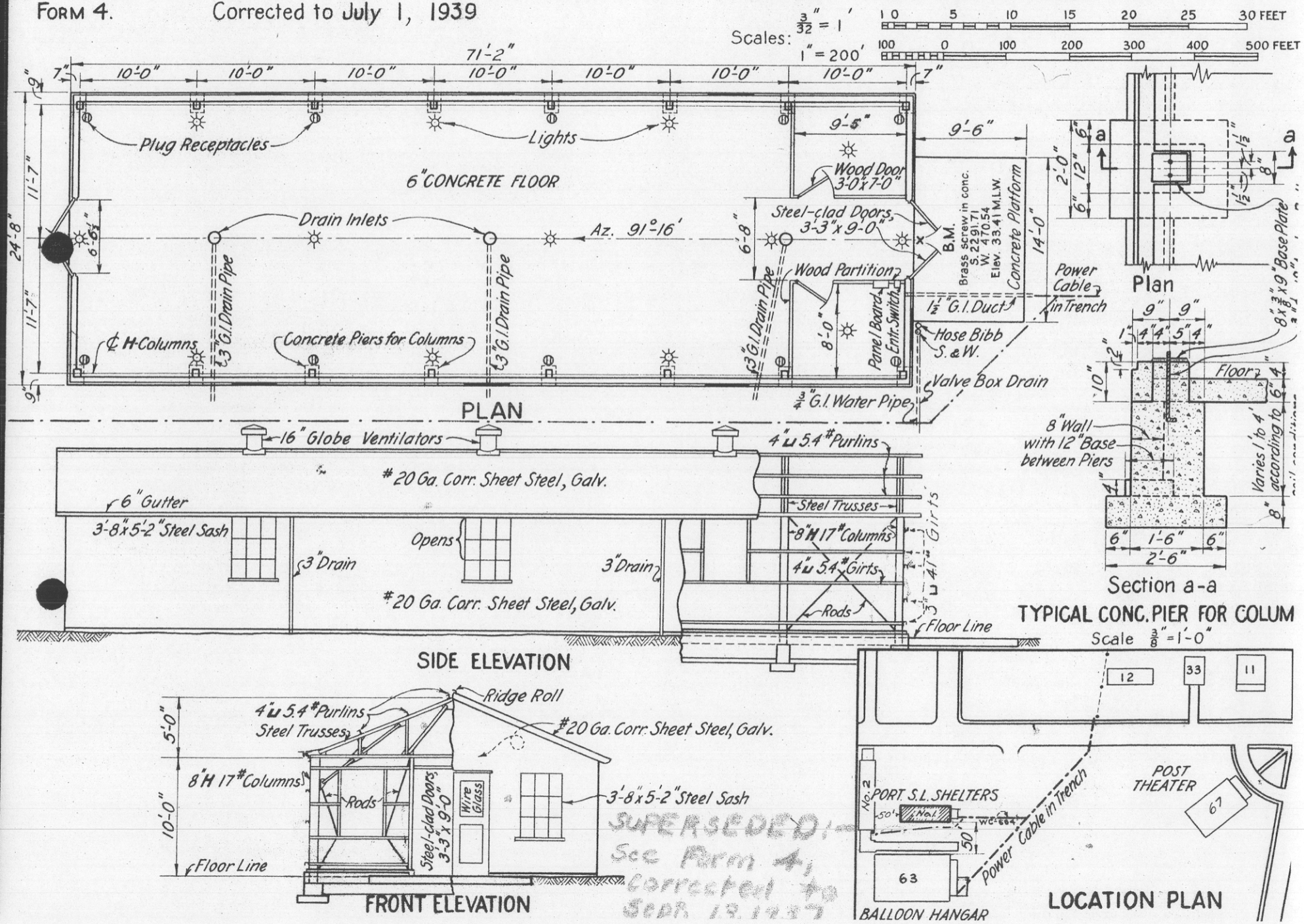
Scales: 3/32" = 1' ; 1" = 200'



REPORT OF COMPLETED WORKS – SEACOAST FORTIFICATIONS
(Searchlights)

FORM 4. Corrected to July 1, 1939

HARBOR DEFENSES OF PUGET SOUND
FORT WORDEN, WASHINGTON.
PORTABLE SEARCHLIGHTS SHELTER NO. 1



SUPERSEDED:– See Form 4, Corrected to Sept. 19, 1937

REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS.
(Searchlights)
Form 4. Corrected to October 1, 1940.

HARBOR DEFENSES OF PUGET SOUND.
FORT WORDEN, WASHINGTON.
PORTABLE SEARCHLIGHTS SHELTER NO. 1

STRUCTURE		
Location	S.W. quarter of Reservation	This report covers a building only,
Coordinates, center, east end	S. 2291.71, L. 470.54	designed as a storehouse for six
Date of transfer	September 13, 1937.	portable Searchlights
Cost to that date	$5,000.00	
Type of construction		
(a) Roof and sides	#20 gauge corrugated steel, galv.	
(b) Frame	Structural steel	
(c) Floor	Concrete, 6" thick	
How concealed	Native trees, except east end	
How protected	No protection	
Height above concealment	None	
Height above protection	-	
Conspicuous at yards	500, east end only	
ELECTRIC CURRENT		
Source of	Commercial	
Kilowatts required	4	
Type of lighting fixtures	Commercial	
HEAT		
How heated	Not heated	
WATER & SEWER		
Connected to water mains	Yes, one outside hose bibb, east end	
Connected to sewer	No	
Type of latrine	No latrine	
Permanent or temporary installation	Permanent	
Present condition	Excellent	
REFERENCE		
Reference of site (floor)	33.5'	
Datum	M.L.W.	
Origin of coordinates	C1F1	

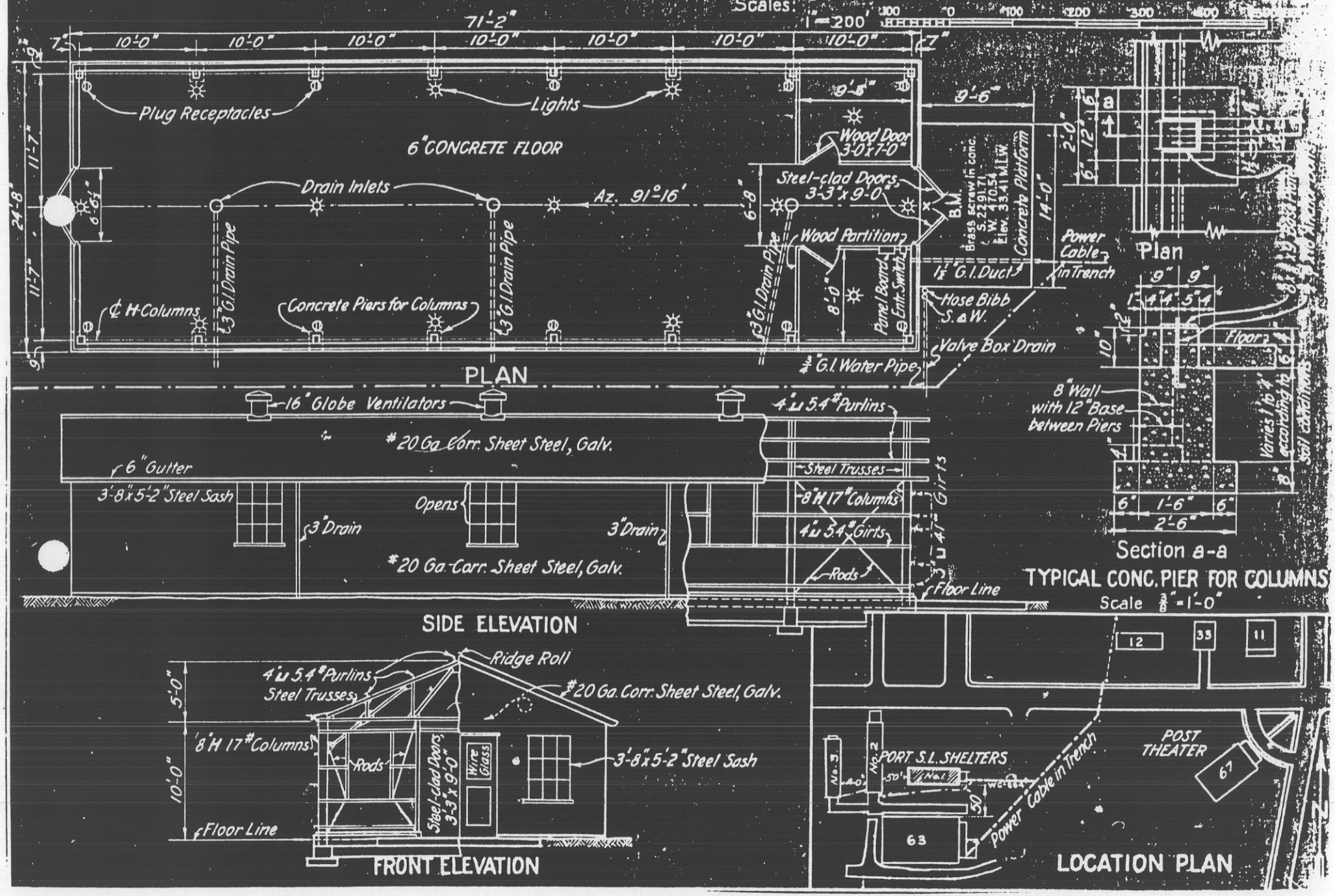
Transferred to Q.M.C. for maintenance, letter C of E 470.35 (634.3) 8/19/40.
This item is discontinued. Superseded by See Form 4 corrected to May 5, 1941

REPORT OF COMPLETED WORKS — SEACOAST FORTIFICATIONS
(Searchlights)

FORM 4. Corrected to Oct. 1, 1940

HARBOR DEFENSES OF PUGET SOUND
FORT WORDEN, WASHINGTON
PORTABLE SEARCHLIGHTS SHELTER NO. 1

Scales: 3/32" = 1' 1" = 200'



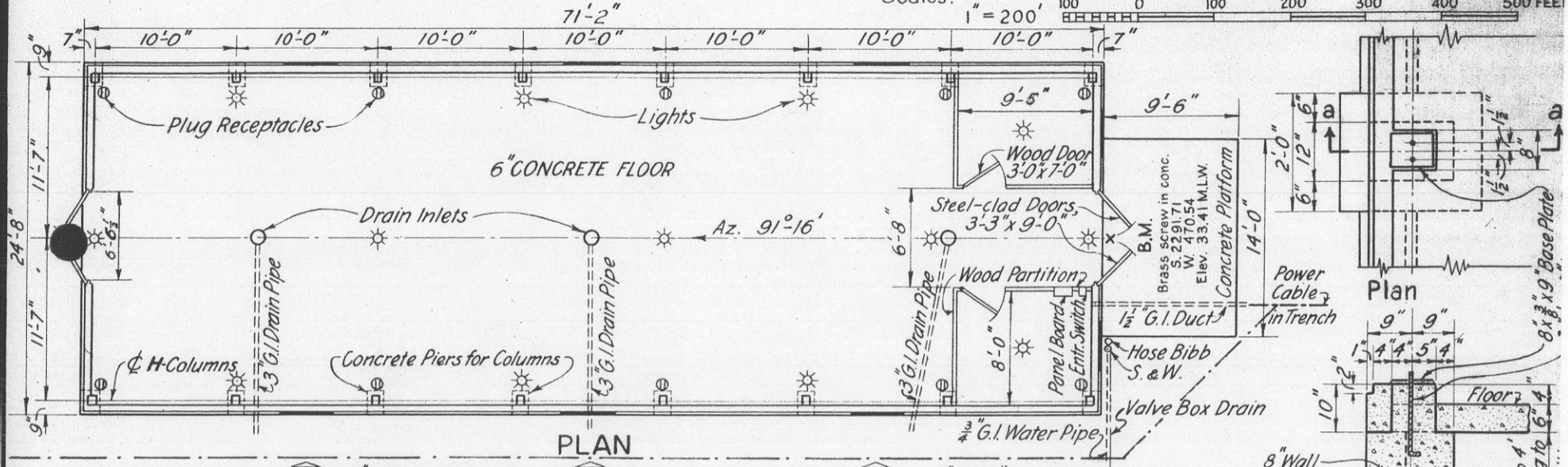
REPORT OF COMPLETED WORKS – SEACOAST FORTIFICATIONS
(Searchlights)

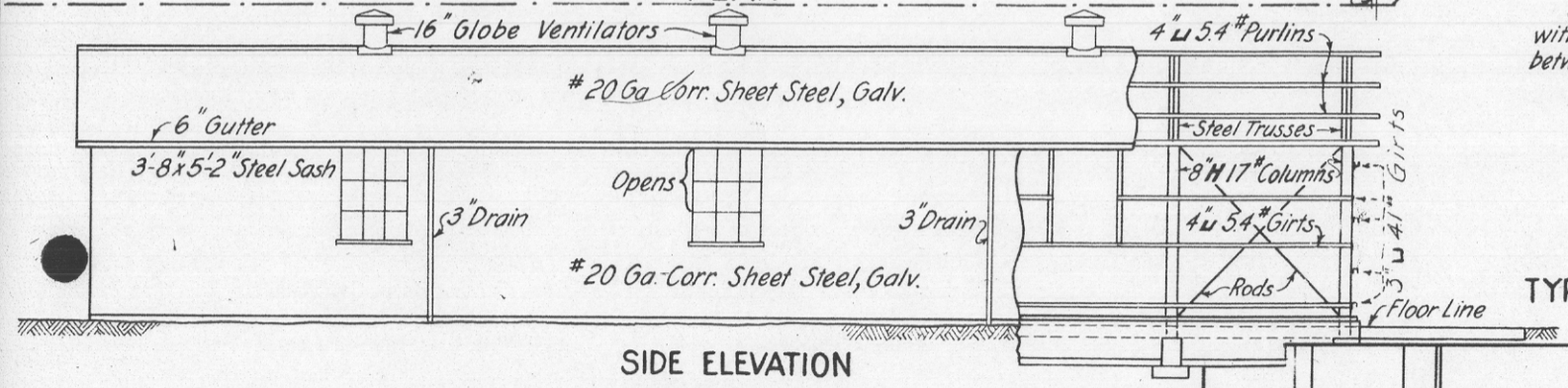
FORM 4. Corrected to Oct. 1, 1940

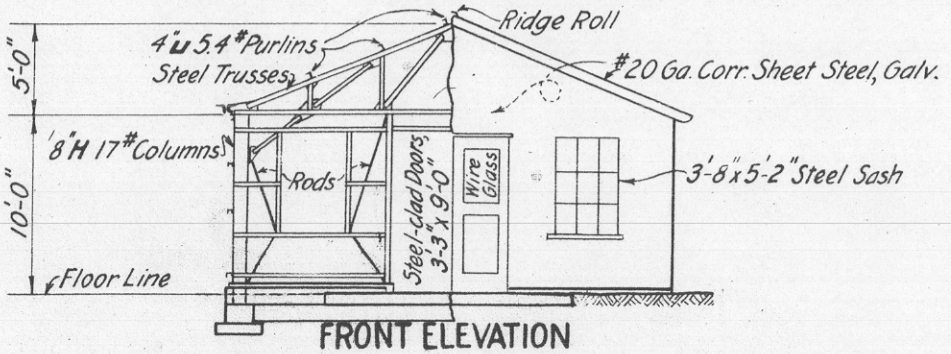
HARBOR DEFENSES OF PUGET SOUND
FORT WORDEN, WASHINGTON.

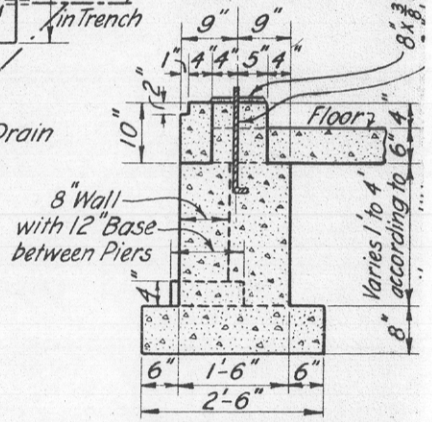
PORTABLE SEARCHLIGHTS SHELTER NO. 1

Scales: $\frac{3}{32}$" = 1' (1 0 5 10 15 20 25 30 FEET)
1" = 200' (100 0 100 200 300 400 500 FEET)

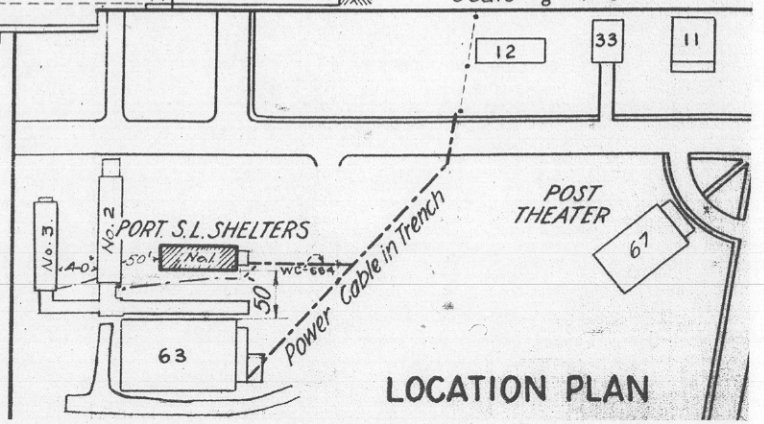








TYPICAL CONC. PIER FOR COLUM
Scale ⅜"=1'-0"



REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS.
(Searchlights)
Form 4. Corrected to May 5, 1941

CONFIDENTIAL

HARBOR DEFENSES OF PUGET SOUND.
FORT WORDEN, WASHINGTON.
PORTABLE SEARCHLIGHTS SHELTER NO. 1

STRUCTURE		
Location	S.W. Quarter of Reservation	This report covers a building only,
Coordinates, center, east end	S. 2291.71, W. 470.54	designed as a storehouse for six
Date of transfer	Sept. 13, 1937 & May 5, 1941.	portable searchlights.
Cost to that date (Sept. 13, 1937	$5,000.00.	
Type of construction		
(a) Roof and sides	#20 gauge corr. steel, galf.	
(b) Frame	Structural steel	
(c) Floor	Concrete, 6" thick	
How concealed	Native trees, except east end	
How protected	No protection	
Height above concealment	None	
Height above protection	-	
Conspicuous at yards	500, east end only	
ELECTRIC CURRENT		
Source of	Commercial	
Kilowatts required	4	
Type of lighting fixtures	Commercial	
HEAT		
How heated	Not heated	
WATER & SEWER		
Connected to water mains	Yes, one outside hose bibb, east end	
Connected to sewer	No	
Type of latrine	No latrine	
Permanent or temporary installation	Permanent	
Present condition	Good	
REFERENCE		
Reference of site (floor)	33.5'	
Datum	M.L.W.	
Origin of Coordinates	C1F1	

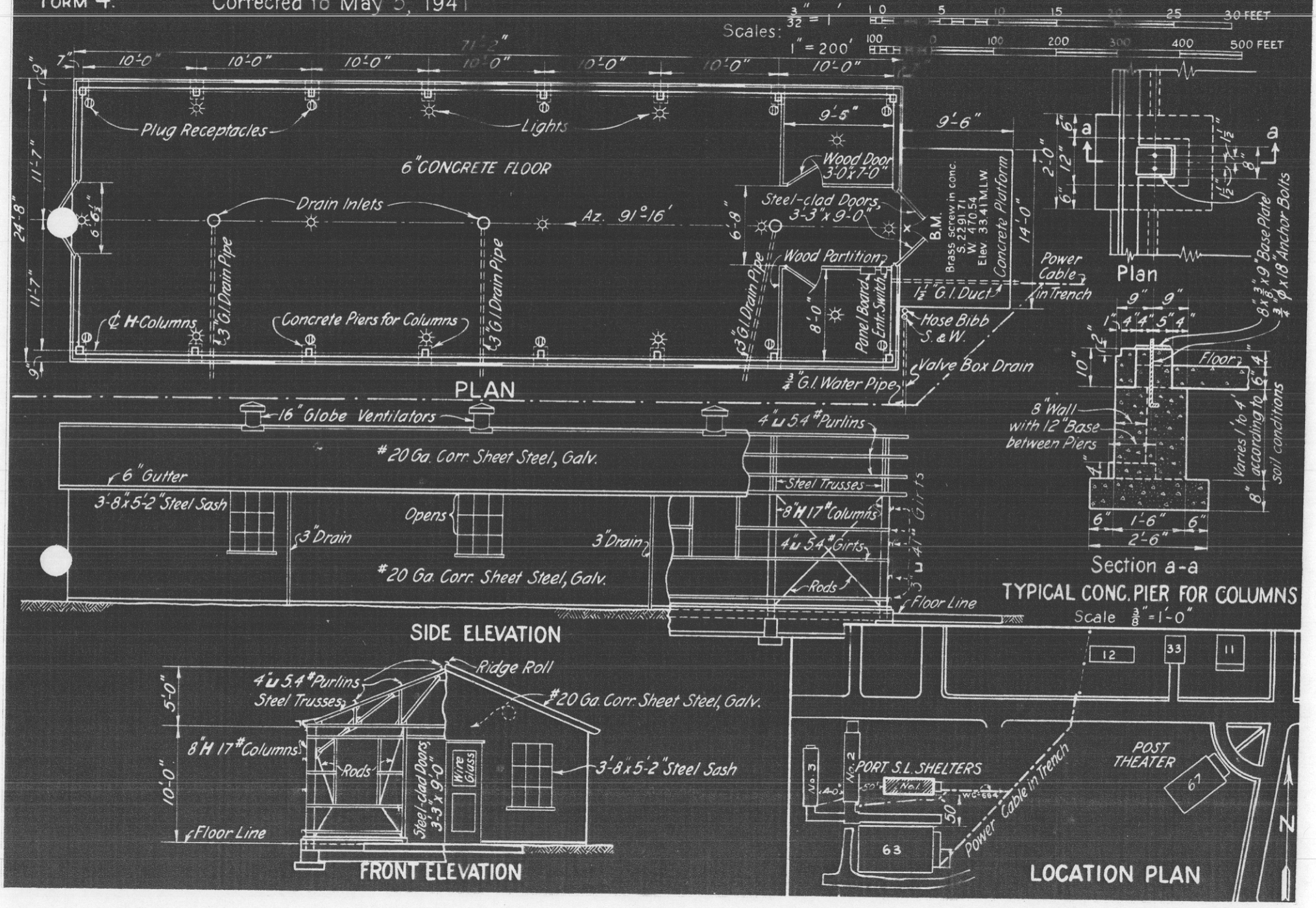
Transferred from QMC to Engr. Dept. for maint.; letter C of E 470.35 240, 3/5/41.

Punch Card 38 made for

REPORT OF COMPLETED WORKS – SEACOAST FORTIFICATIONS
(Searchlights)

FORM 4. Corrected to May 5, 1941

HARBOR DEFENSES OF PUGET SOUND
FORT WORDEN, WASHINGTON
PORTABLE SEARCHLIGHTS SHELTER NO. 1

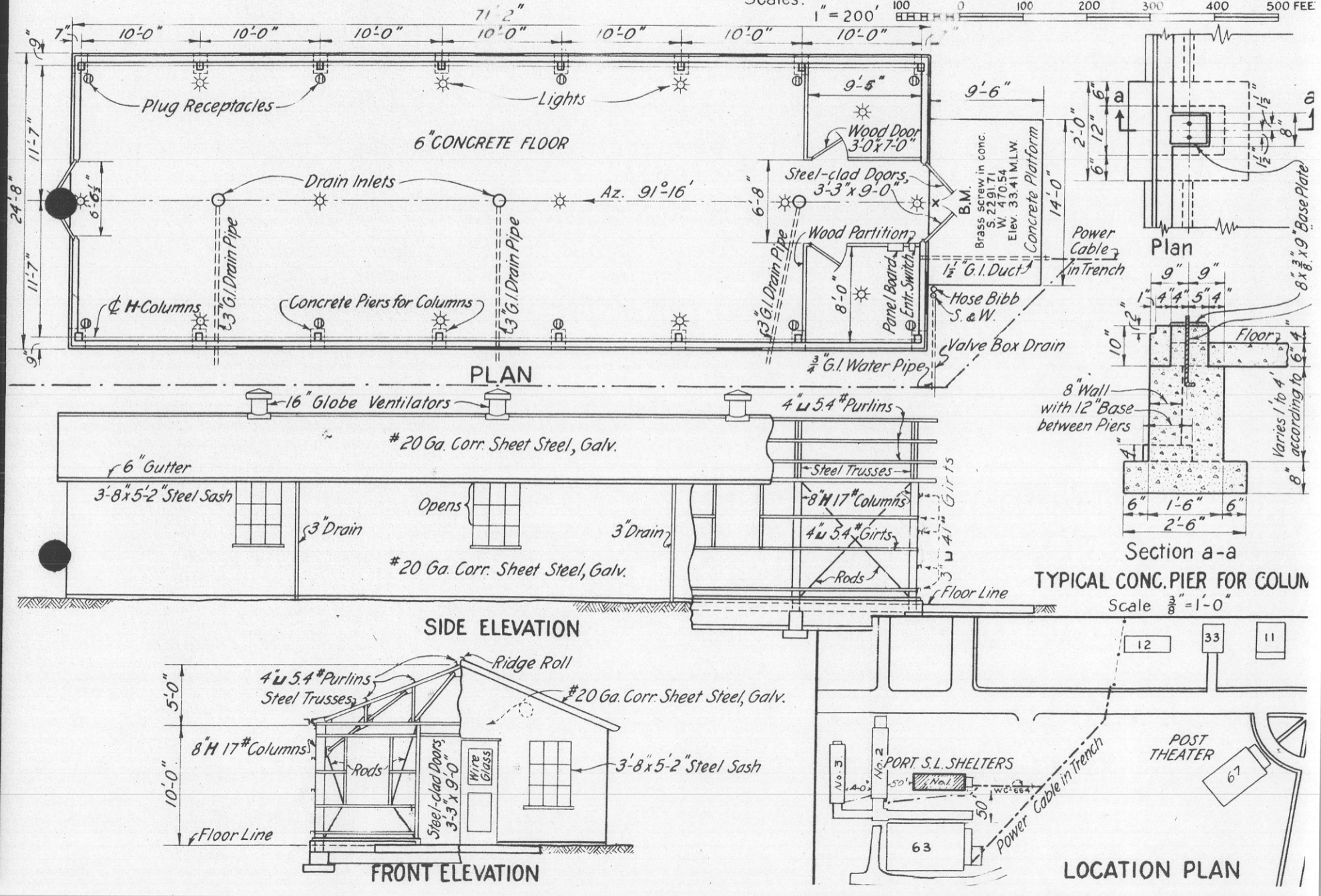


REPORT OF COMPLETED WORKS – SEACOAST FORTIFICATIONS
(Searchlights)

FORM 4. Corrected to May 5, 1941

HARBOR DEFENSES OF PUGET SOUND
FORT WORDEN, WASHINGTON
PORTABLE SEARCHLIGHTS SHELTER NO. 1

Scales: $\frac{3}{32}$" = 1' ; 1" = 200'



Worden, Puget Sd. Wn

REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS.
(Searchlights)
Form 4. Corrected to July 1, 1939.

HARBOR DEFENSES OF PUGET SOUND.
FORT WORDEN, WASHINGTON.
PORTABLE SEARCHLIGHTS SHELTER NO. 2

STRUCTURE		
Location	S.W. Quarter of Reservation	This report covers a building only, designed as a store house for ten portable searchlights.
Coordinates, center, South end	S 2314.10, W 604.97	
Date of transfer	July 26, 1939	
Cost to that date	$ 9,000	
Type of construction		
(a) Roof and sides	# 20 gauge corrugated steel, Galv.	
(b) Frame	Structural steel	
(c) Floor	Concrete, 6" thick	
How concealed	Native trees, sides	
How protected	No protection	
Height above concealment	None	
Height above protection	-	
Conspicuous at	200 Yds.	
ELECTRIC CURRENT:		
Source of	Commercial	
Kilowatts required	6	
Type of lighting fixture	Commercial	
HEAT:		
How heated	Flue provided in S.E. Room	
WATER & SEWER:		
Connected to water mains	Yes, Hose Bibb outside each end	
Connected to sewer	No	
Type of latrine	No latrine	
Permanent or temporary installation	Permanent	
Present condition	Excellent	
REFERENCE:		
Reference of site (floor)	30.6'	
Datum	M. L. W.	
Origin of coordinates	C1F1	

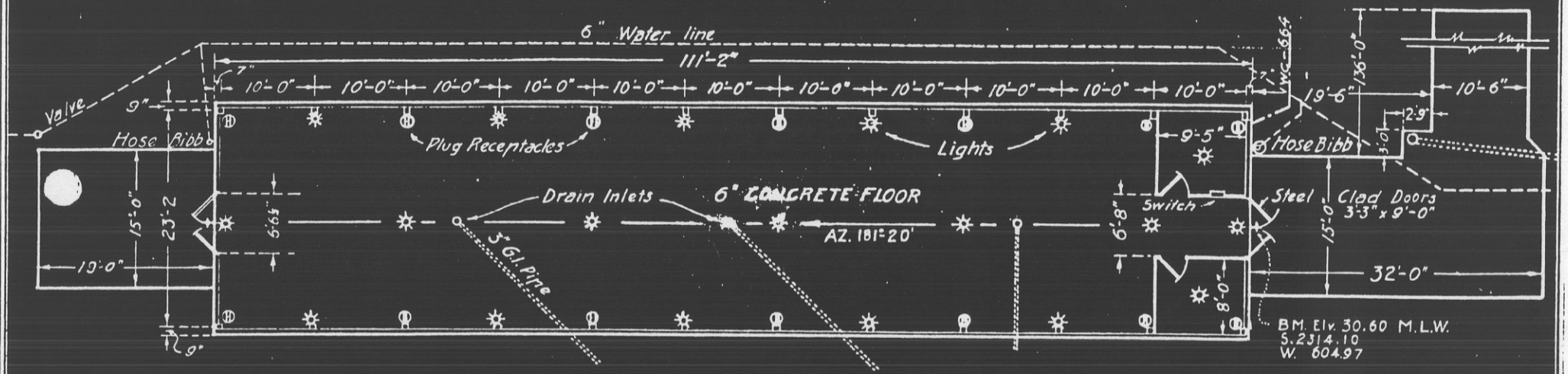
SUPERSEDED - See Form 4, corrected to Oct 1, 1940

REPORT OF COMPLETED WORKS · SEACOAST FORTIFICATIONS
(Searchlights)

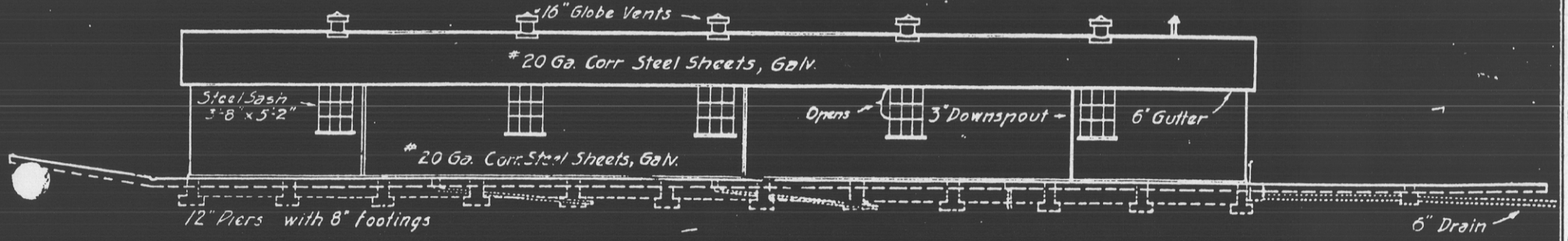
FORM 4. Corrected to July 1, 1939.

HARBOR DEFENSES OF PUGET SOUND
FORT WORDEN, WASHINGTON
PORTABLE SEARCHLIGHTS SHELTER No. 2

Scales 1/16" = 1' (0 10 20 30 40 FT.)
1" = 200' (100 0 100 200 300 400 500 FT.)



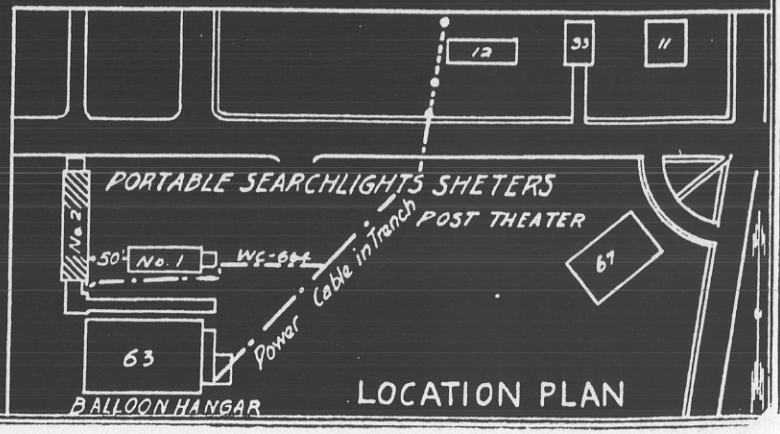
PLAN



SIDE ELEVATION

#20 Ga. Corr Steel Sheets, Galv.
3'-8" x 5'-2" Steel Sash
3'-3" x 9'-0" Steel-Clad Doors

FRONT ELEVATION



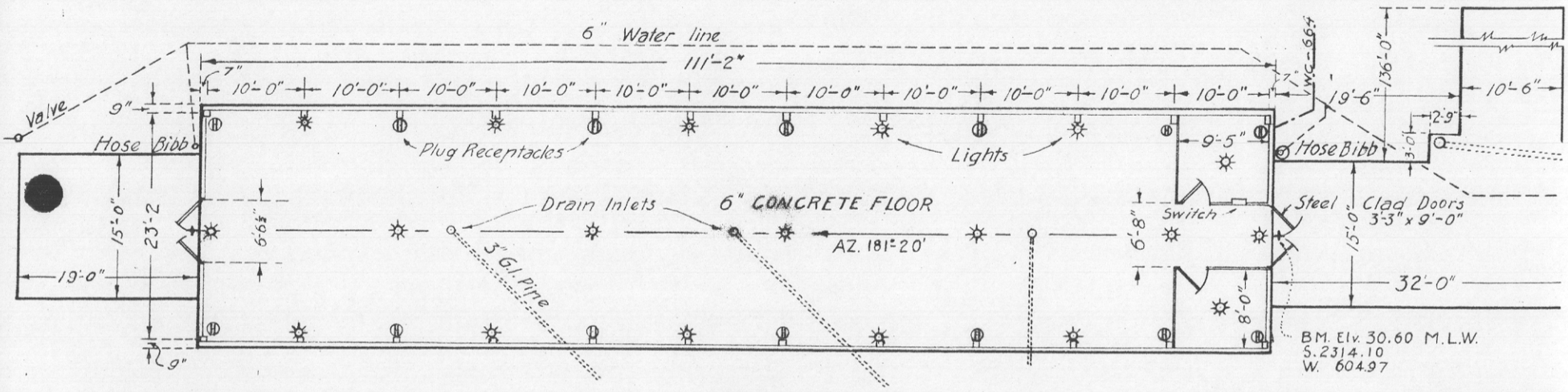
LOCATION PLAN

REPORT OF COMPLETED WORKS SEACOAST FORTIFICATIONS
(Searchlights)

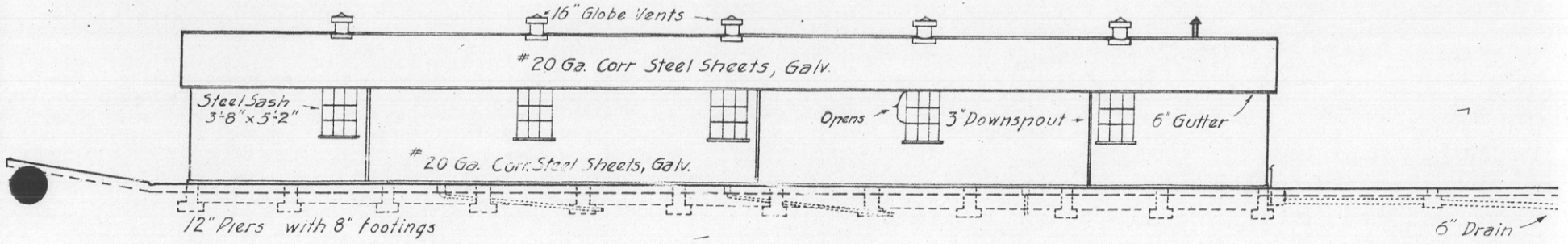
FORM 4. Corrected to July 1, 1939.

HARBOR DEFENSES OF PUGET SOUND
FORT WORDEN, WASHINGTON
PORTABLE SEARCHLIGHTS SHELTER No. 2

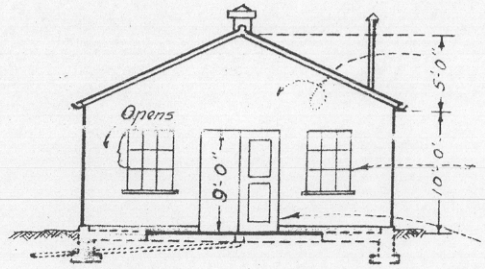
Scales $\frac{1}{16}$" = 1' 0 10 20 30 40 FT.
1" = 200' 100 0 100 200 300 400 500 FT.



PLAN

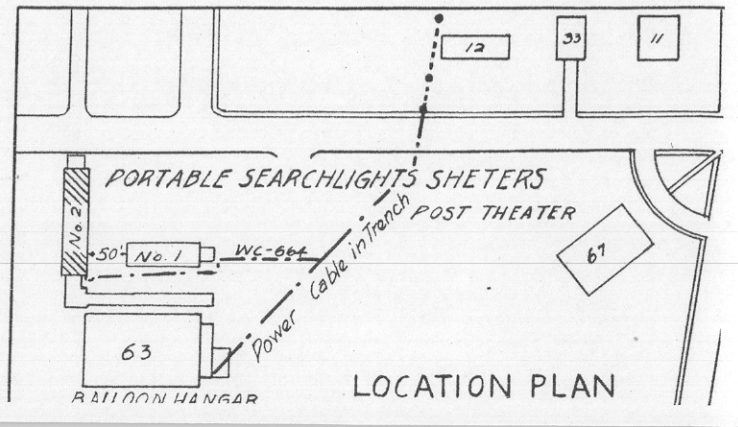


SIDE ELEVATION



#20 Ga. Corr Steel Sheets, Galv.
3'-8" x 5'-2" Steel Sash
3'-3" x 9'-0" Steel-Clad Doors

FRONT ELEVATION



LOCATION PLAN

w/ 660 B (Puget Sound) 78

REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS.
(Searchlights)
Form 4. Corrected to October 1, 1940.

HARBOR DEFENSES OF PUGET SOUND.
FORT WORDEN, WASHINGTON.
PORTABLE SEARCHLIGHTS SHELTER NO. 2

STRUCTURE		This report covers a building only, designed as a store house for ten portable searchlights.
Location	S.W. Quarter of Reservation	
Coordinates, center, South end	S. 2314.10, W. 604.97	
Date of transfer	July 26, 1939.	
Cost to that date	$ 9,000.00	
Type of construction		
(a) Roof and sides	#20 gauge corrugated steel, galv.	
(b) Frame	Structural steel	
(c) Floor	Concrete, 6" thick	
How concealed	Native trees, sides	
How protected	No protection	
Height above concealment	None	
Height above protection	-	
Conspicuous at	200 yards	
ELECTRIC CURRENT		
Source of	Commercial	
Kilowatts required	6	
Type of lighting fixtures	Commercial	
HEAT		
How heated	Flue provided in S. E. Room	
WATER & SEWER		
Connected to water mains	Yes, Hose Bibb outside each end	
Connected to sewer	No	
Type of latrine	No latrine	
Permanent or temporary installation	Permanent	
Present condition	Excellent	
REFERENCE		
Reference of site (floor)	30.6'	
Datum	M.L.W.	
Origin of coordinates	C1F1	

Transferred to Q.M.C. for maintenance, letter C of E 470.35 (634.3) 8/19/40.
This item is discontinued. Superseded: See Form 4 corrected to May 5, 1941.

(Incl. [illegible])

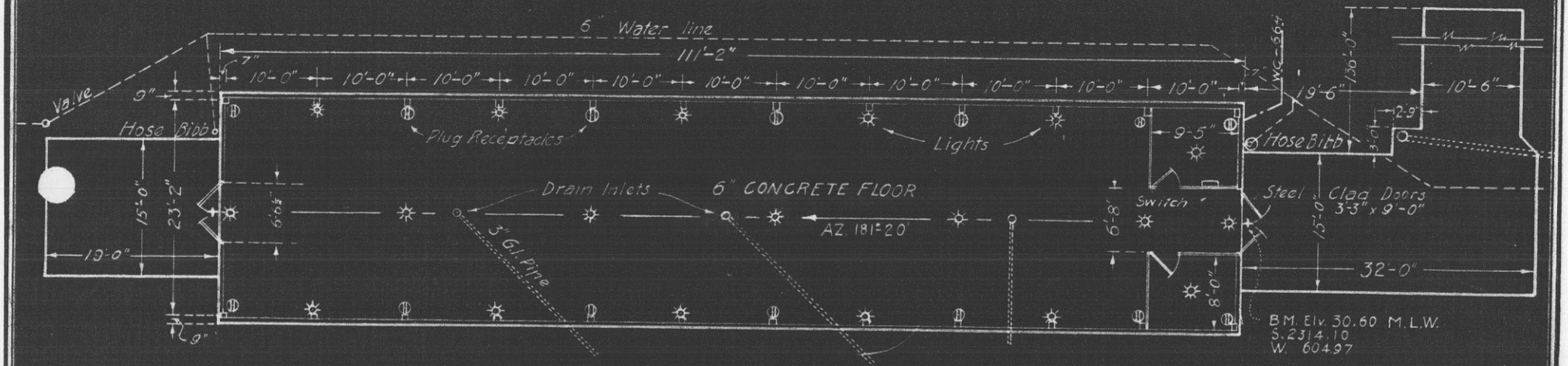
REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS.
(Searchlights)

FORM 4. Corrected to Oct. 1, 1940.

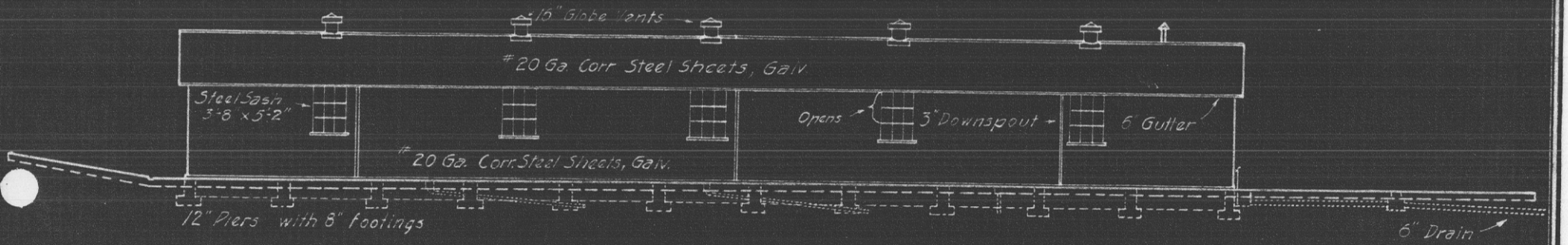
HARBOR DEFENSES OF PUGET SOUND.
FORT WORDEN, WASHINGTON.

PORTABLE SEARCHLIGHTS SHELTER No. 2.

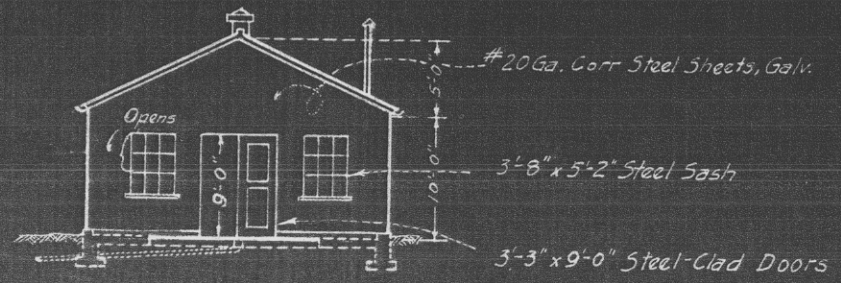
Scales: 1/16" = 1' (0, 10, 20, 30, 40 FT.)
1" = 200' (100, 0, 100, 200, 300, 400, 500 FT.)



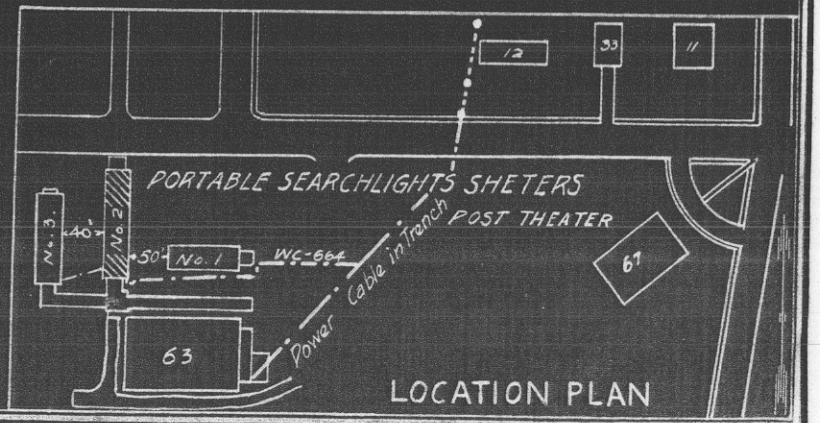
PLAN



SIDE ELEVATION



FRONT ELEVATION



LOCATION PLAN

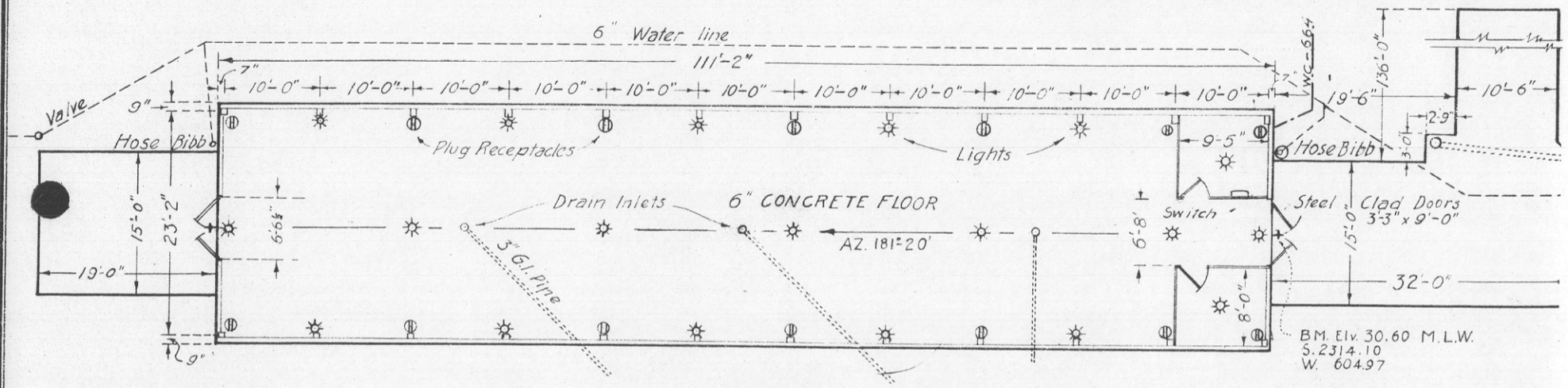
REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS.
(Searchlights)

FORM 4. Corrected to Oct. 1, 1940.

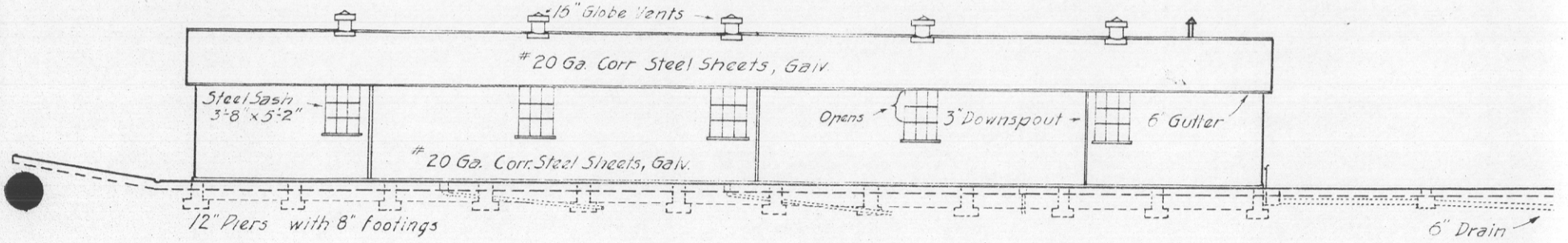
HARBOR DEFENSES OF PUGET SOUND.
FORT WORDEN, WASHINGTON.

PORTABLE SEARCHLIGHTS SHELTER No. 2.

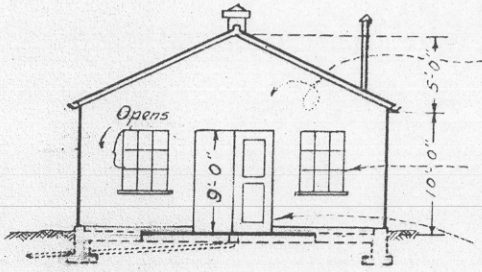
Scales: 1/16" = 1' (0, 10, 20, 30, 40 FT.)
1" = 200' (100, 0, 100, 200, 300, 400, 500 FT.)



PLAN

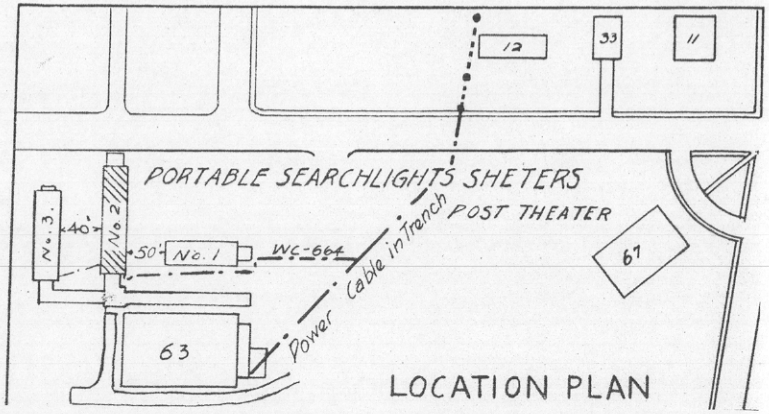


SIDE ELEVATION



#20 Ga. Corr Steel Sheets, Galv.
3'-8" x 5'-2" Steel Sash
3'-3" x 9'-0" Steel-Clad Doors

FRONT ELEVATION



LOCATION PLAN

REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS. CONFIDENTIAL HARBOR DEFENSES OF PUGET SOUND.
(Searchlights) FORT WORDEN, WASHINGTON.
Form 4. Corrected to May 5, 1941. PORTABLE SEARCHLIGHTS SHELTER NO. 2

STRUCTURE		
Location	S.W. Quarter of Reservation	This report covers a building only,
Coordinates, center, South end	S. 2314.10, W. 604.97	designed as a storehouse for ten
Date of transfer	July 26, 1939 & May 5, 1941.	portable searchlights.
Cost to that date (July 26, 1939)	$ 9,000.00	
Type of construction		
(a) Roof and sides	#20 gauge corrugated steel, galv.	
(b) Frame	Structural steel	
(c) Floor	Concrete, 6" thick	
How concealed	Native trees, sides	
How protected	No protection	
Height above concealment	None	
Height above protection	-	
Conspicuous at	200 yards	
ELECTRIC CURRENT		
Source of	Commercial	
Kilowatts required	6	
Type of lighting fixtures	Commercial	
HEAT		
How heated	Flue provided in S. E. room	
WATER & SEWER		
Connected to water mains	Yes, hose bibb outside each end	
Connected to sewer	No	
Type of latrine	No latrine	
Permanent or temporary installation	Permanant	
Present condition	Good	
REFERENCE		
Reference of site (floor)	30.6'	
Datum	M.L.W.	
Origin of coordinates	C1F1	

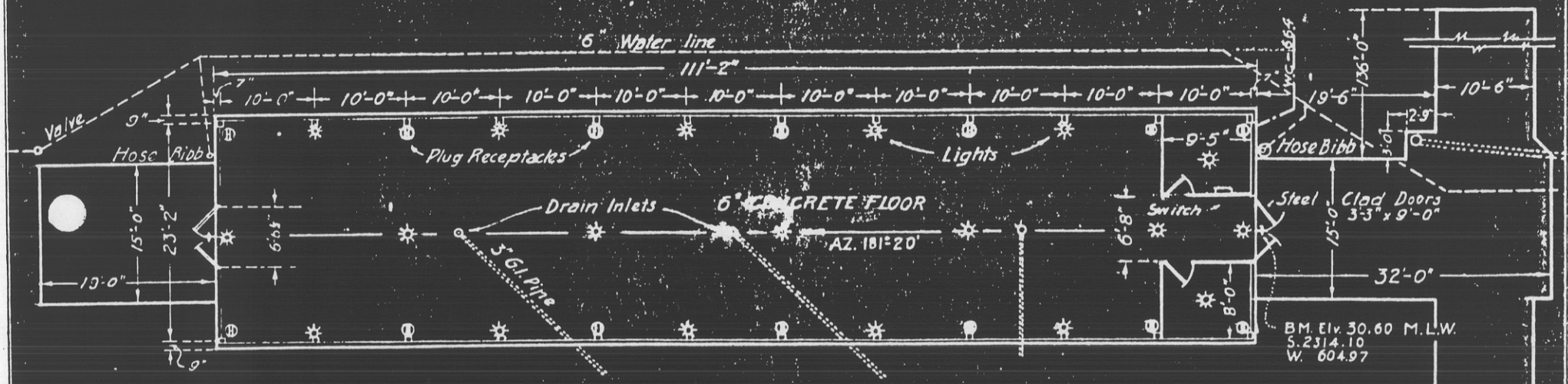
Transferred from QMC to Engr. Dept. for maint.; Letter CofE 470.35 240, 3/5/41.

REPORT OF COMPLETED WORKS SEACOAST FORTIFICATIONS.
(Searchlights)

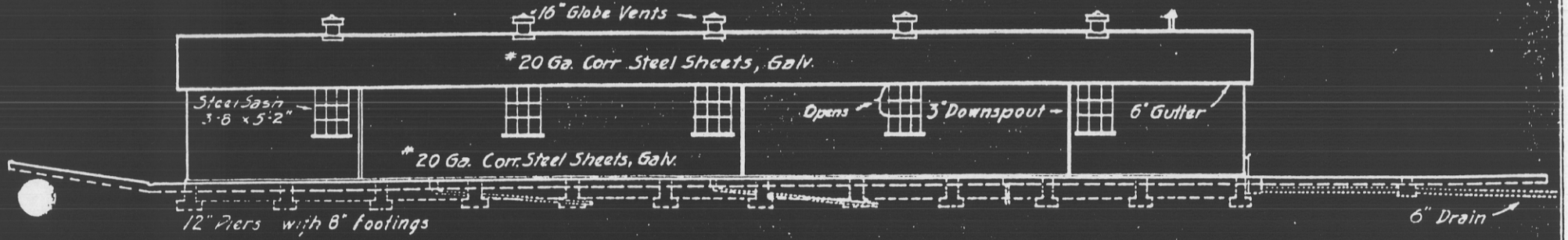
FORM 4. Corrected to May 5, 1941.

HARBOR DEFENSES OF PUGET SOUND.
FORT WORDEN, WASHINGTON.
PORTABLE SEARCHLIGHTS SHELTER No. 2.

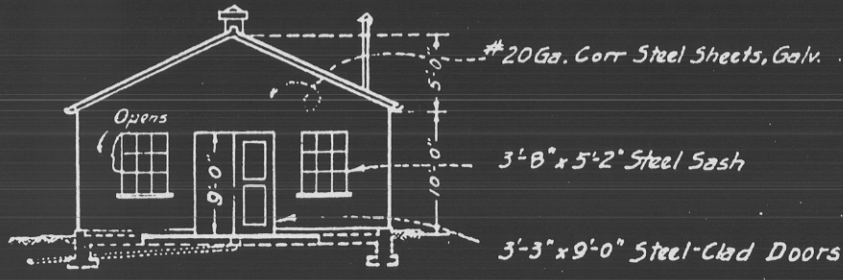
Scales: 1/16" = 1' (0 10 20 30 40 FT.)
1" = 200' (100 0 100 200 300 400 500 FT.)



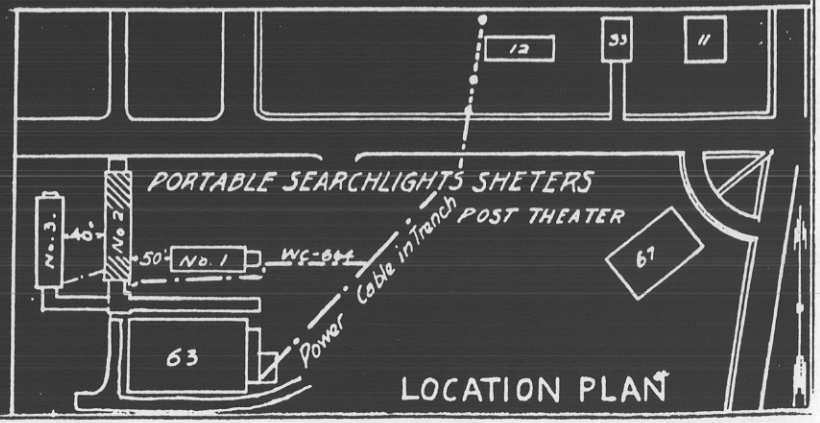
PLAN



SIDE ELEVATION



FRONT ELEVATION



LOCATION PLAN

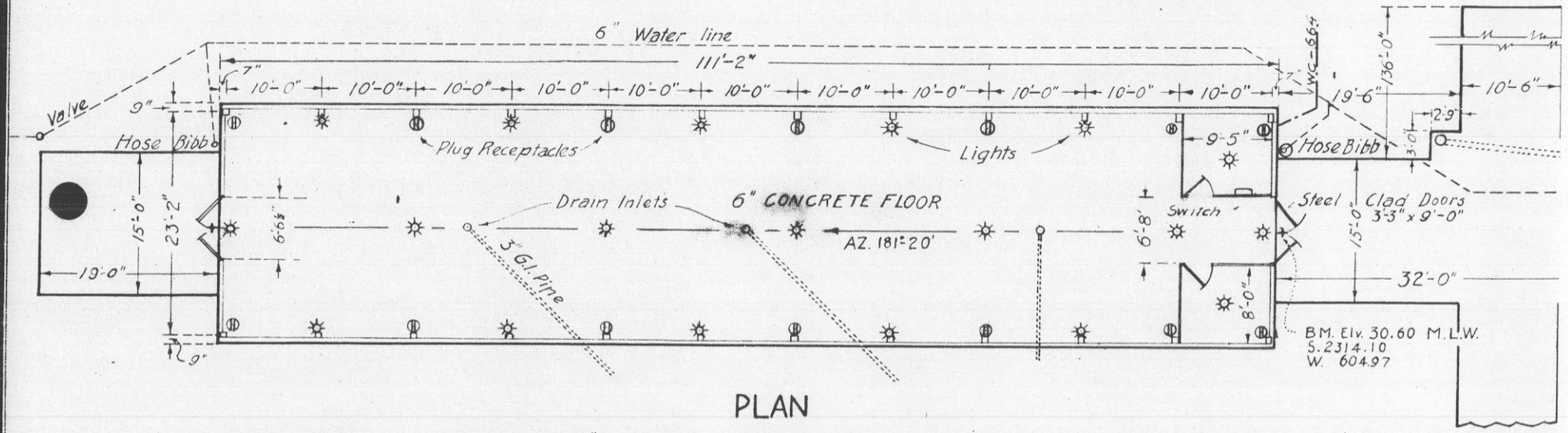
REPORT OF COMPLETED WORKS SEACOAST FORTIFICATIONS.
(Searchlights)

FORM 4. Corrected to May 5, 1941.

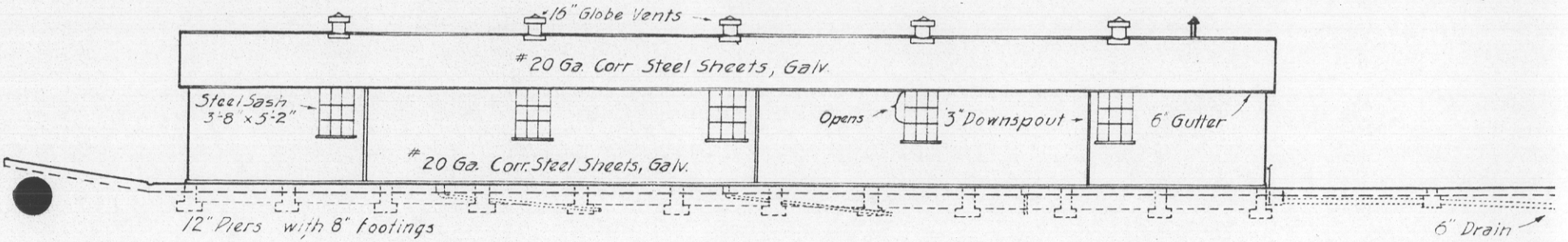
HARBOR DEFENSES OF PUGET SOUND.
FORT WORDEN, WASHINGTON.

PORTABLE SEARCHLIGHTS SHELTER No. 2.

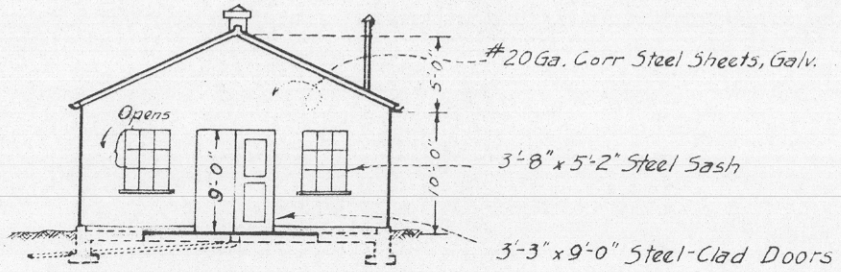
Scales: 1/16" = 1' (0, 10, 20, 30, 40 FT.)
1" = 200' (100, 0, 100, 200, 300, 400, 500 FT.)



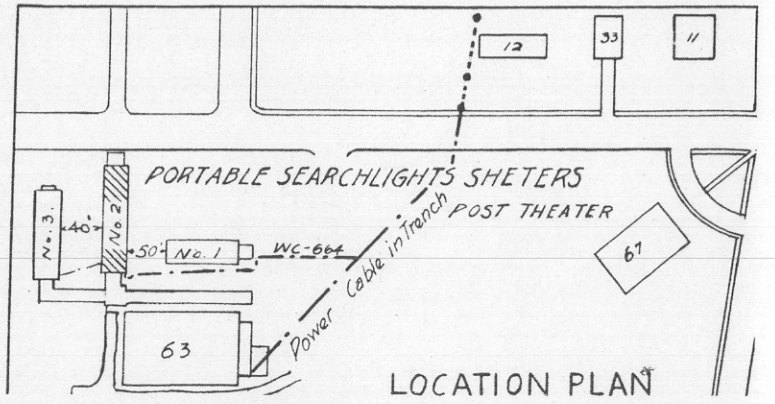
PLAN



SIDE ELEVATION



FRONT ELEVATION



LOCATION PLAN

W/ 660B (Puget Sound) 78

REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS.
(Searchlights)
Form 4. Corrected to October 1, 1940.

HARBOR DEFENSES OF PUGET SOUND.
FORT WORDEN, WASHINGTON.
PORTABLE SEARCHLIGHTS SHELTER NO. 3

STRUCTURE		
Location	S. W. Quarter of Reservation	This report covers a building only, designed as a storehouse for eight portable Searchlights
Coordinates	Not coordinated, 40' W of Shelter No.2	
Date of transfer (to Q. M. C.)	August 19, 1940.	
Cost to that date	$ 7,500.00	
Type of construction		
(a) Roof and sides	#20 gauge corrugated steel, galv.	
(b) Frame	Structural steel	
(c) Floor	Concrete, 6" thick	
How concealed	Native trees	
How protected	No protection	
Height above concealment	None	
Height above protection	-	
Conspicuous at	200 yards	
ELECTRIC CURRENT		
Source of	Commercial	
Kilowatts required	5	
Type of lighting fixtures	Commercial	
HEAT		
How heated	Not heated	
WATER & SEWER		
Connected to water mains	Yes, Hose Dibb outside each end	
Connected to sewer	No	
Type of latrine	No latrine	
Permanent or temporary installations	Permanent	
Present condition	Excellent	
REFERENCE		
Reference of site (floor)	30.6'	
Datum	M. L. W.	
Origin of coordinates	C1F1	

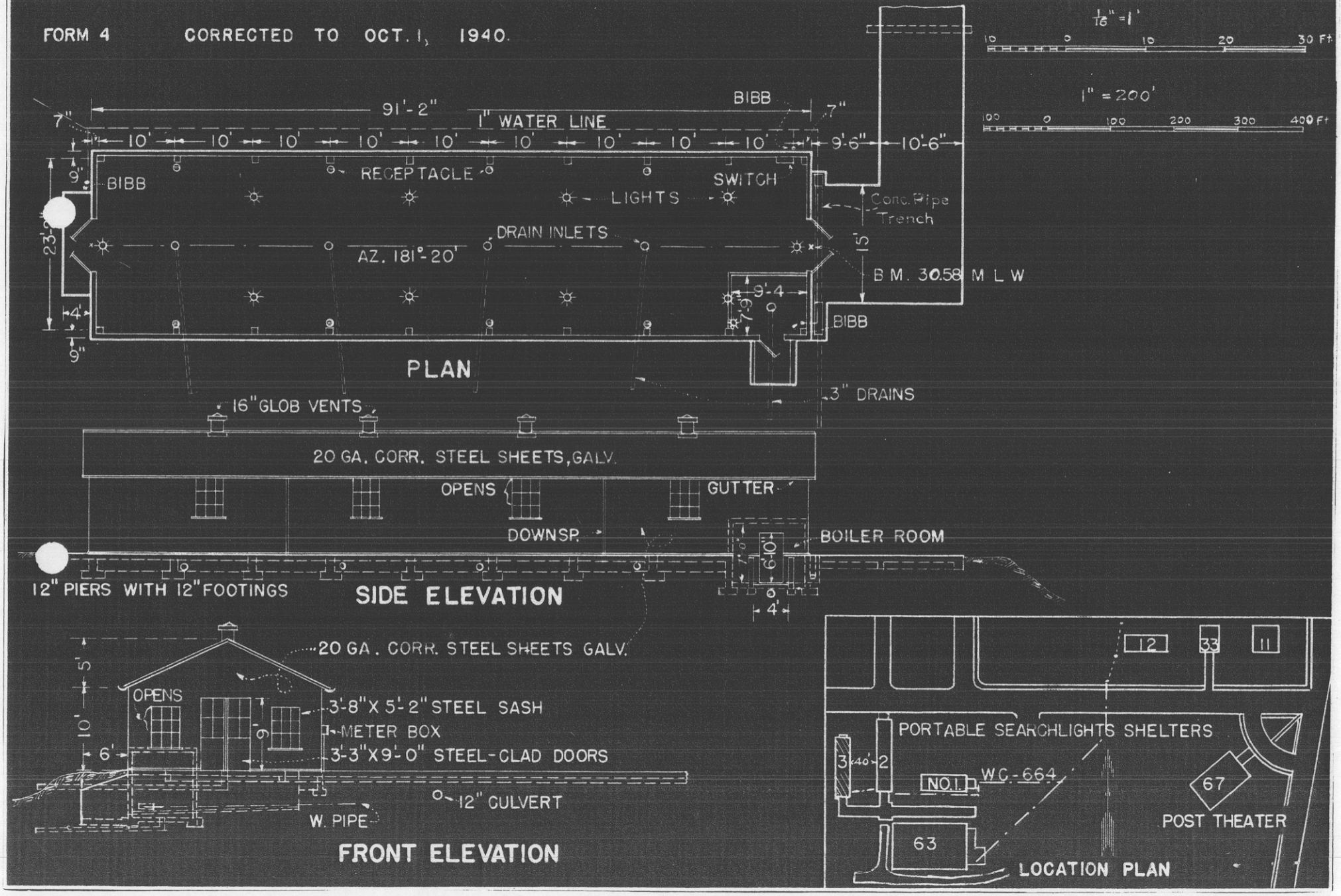
Transferred to Q.M.C. for maintenance, letter C of E 470.35 (634.3) 8/19/40.
This item is discontinued. Superseded: See Form 4 corrected to May, 5, 1941.

Incl. #2 (Incl. #2 [illegible])

REPORT OF COMPLETED WORKS SEACOAST FORTIFICATIONS
(SEARCHLIGHTS)

HARBOR DEFENSES OF PUGET SOUND
FORT WORDEN, WASHINGTON
PORTABLE SEARCHLIGHTS SH. NO. 3

FORM 4 CORRECTED TO OCT. 1, 1940.

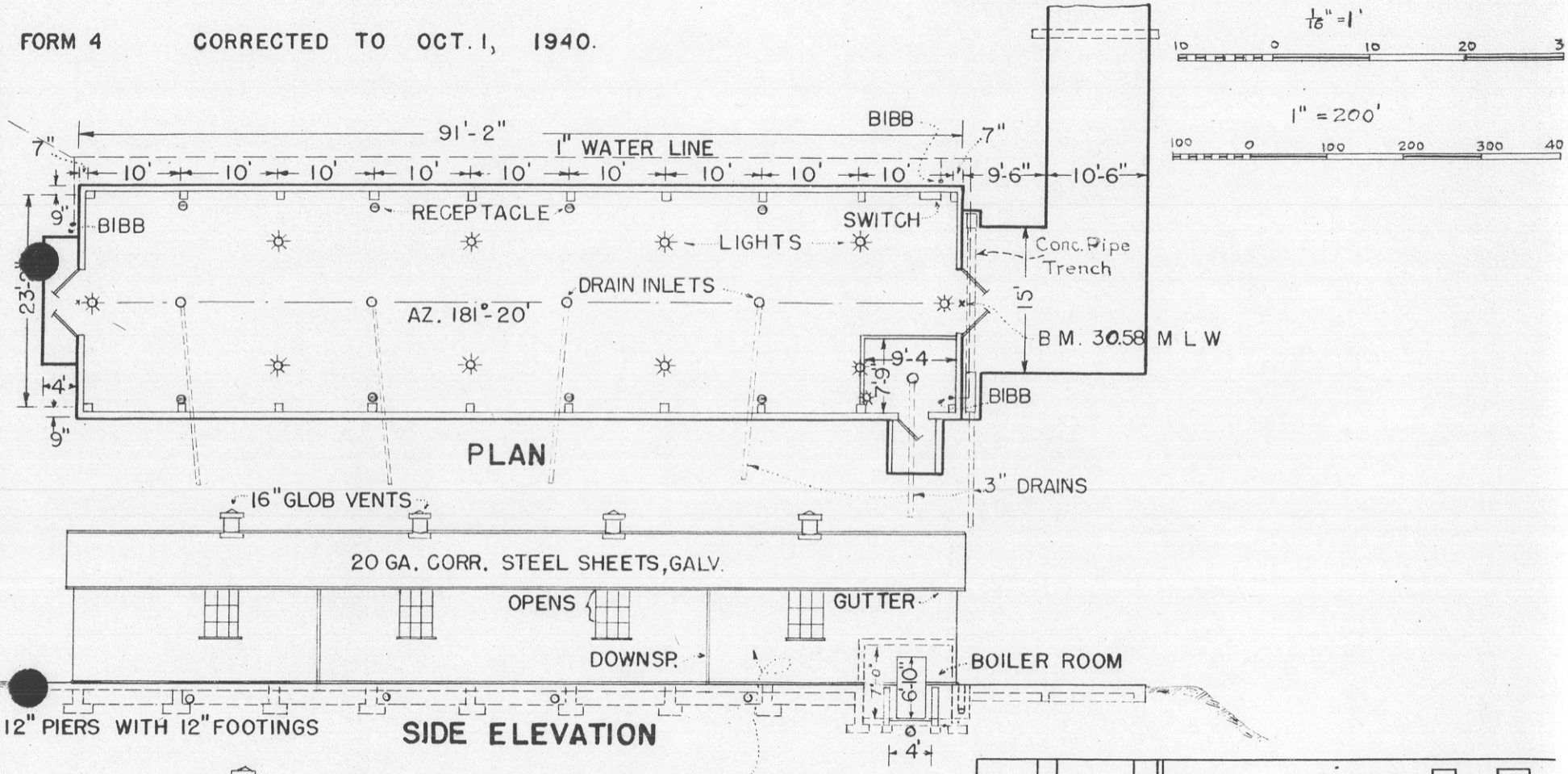


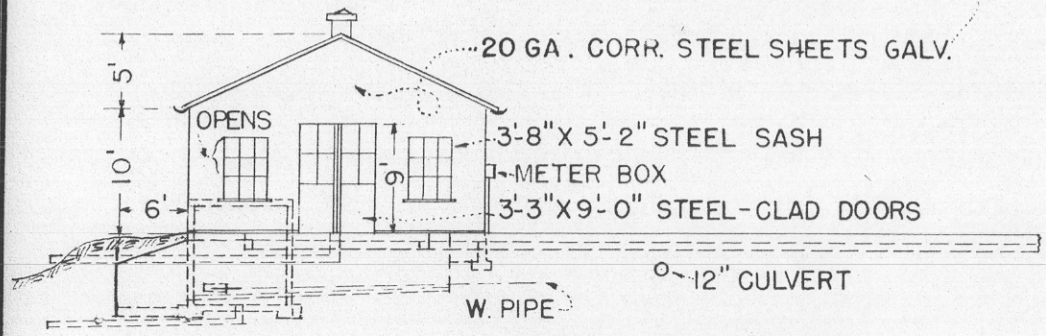
REPORT OF COMPLETED WORKS SEACOAST FORTIFICATIONS HARBOR DEFENSES OF PUGET SOUND

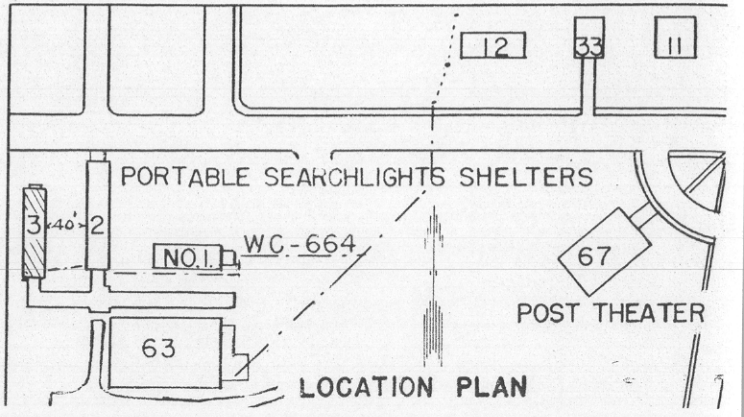
(SEARCHLIGHTS) FORT WORDEN, WASHINGTON

PORTABLE SEARCHLIGHTS SH. NO. 3

FORM 4 CORRECTED TO OCT. 1, 1940.







REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS.
(Searchlights)
Form 4. Corrected to May 5, 1941.

CONFIDENTIAL

HARBOR DEFENSES OF PUGET SOUND.
FORT WORDEN, WASHINGTON.
PORTABLE SEARCHLIGHTS SHELTER NO. 3

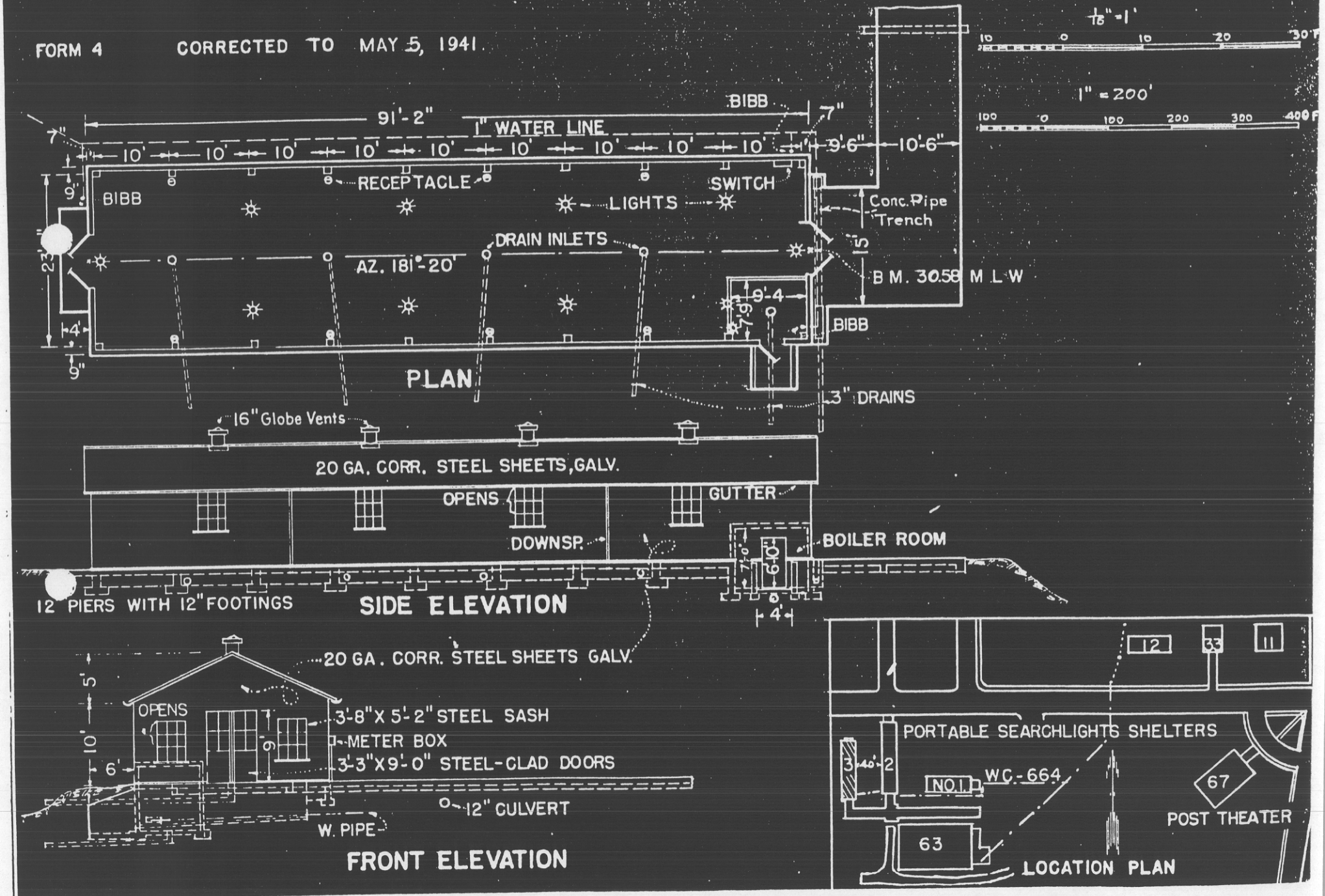
STRUCTURE		
Location	S. W. Quarter of Reservation	This report covers a building only, designed as a storehouse for eight portable searchlights.
Coordinates	Not coordinated, 40' W of Shelter No. 2	
Date of transfer (to QMC)	August 19, 1940.	
" " " (to USED)	May 5, 1941.	
Cost to transfer to QMC	$ 7,500.00	
Type of construction		
(a) Roof and sides	#20 gauge corrugated steel, galv.	
(b) Frame	Structural steel	
(c) Floor	Concrete, 6" thick	
How concealed	Native trees	
How protected	No protection	
Height above concealment	None	
Height above protection	-	
Conspicuous at	200 yards	
ELECTRIC CURRENT		
Source of	Commercial	
Kilowatts required	5	
Type of lighting fixtures	Commercial	
HEAT		
How heated	Not heated	
WATER & SEWER		
Connected to water mains	Yes, hose bibb outside each end	
Connected to sewer	No	
Type of latrine	No latrine	
Permanent or temporary installations	Permanent	
Present condition	Good	
REFERENCE		
Reference of site (floor)	30.6'	
Datum	M. L. W.	
Origin of coordinates	C1F1	

Transferred from QMC to Engr. Dept. for maint.; letter CofE 470.35 240, 3/5/41.

REPORT OF COMPLETED WORKS SEACOAST FORTIFICATIONS (SEARCHLIGHTS)

HARBOR DEFENSES OF PUGET SOUND
FORT WORDEN, WASHINGTON
PORTABLE SEARCHLIGHTS SH. NO. 3

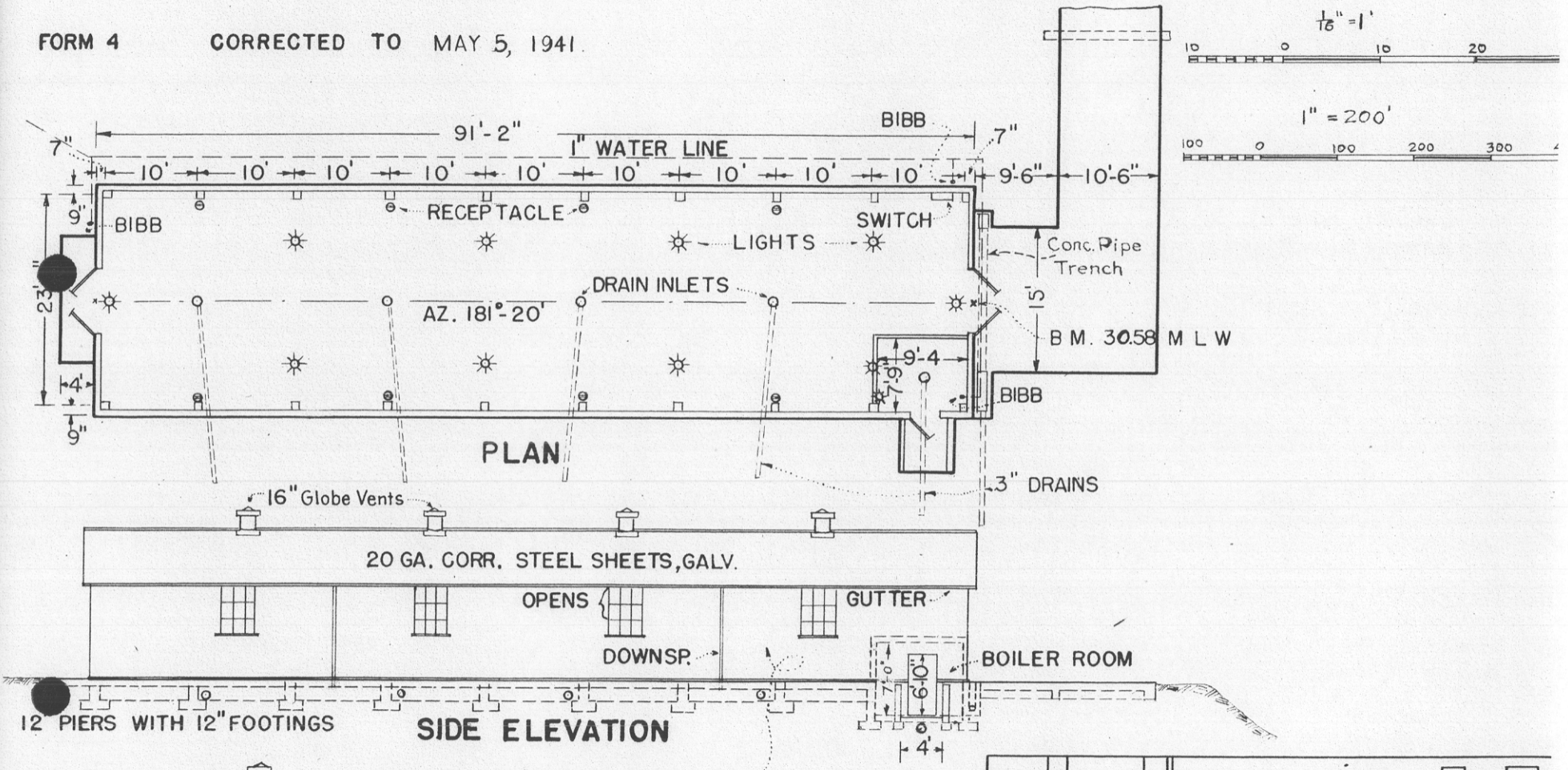
FORM 4 CORRECTED TO MAY 5, 1941.



REPORT OF COMPLETED WORKS SEACOAST FORTIFICATIONS (SEARCHLIGHTS)

HARBOR DEFENSES OF PUGET SOUND
FORT WORDEN, WASHINGTON
PORTABLE SEARCHLIGHTS SH. NO. 3

FORM 4 CORRECTED TO MAY 5, 1941



REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS
(Searchlights)

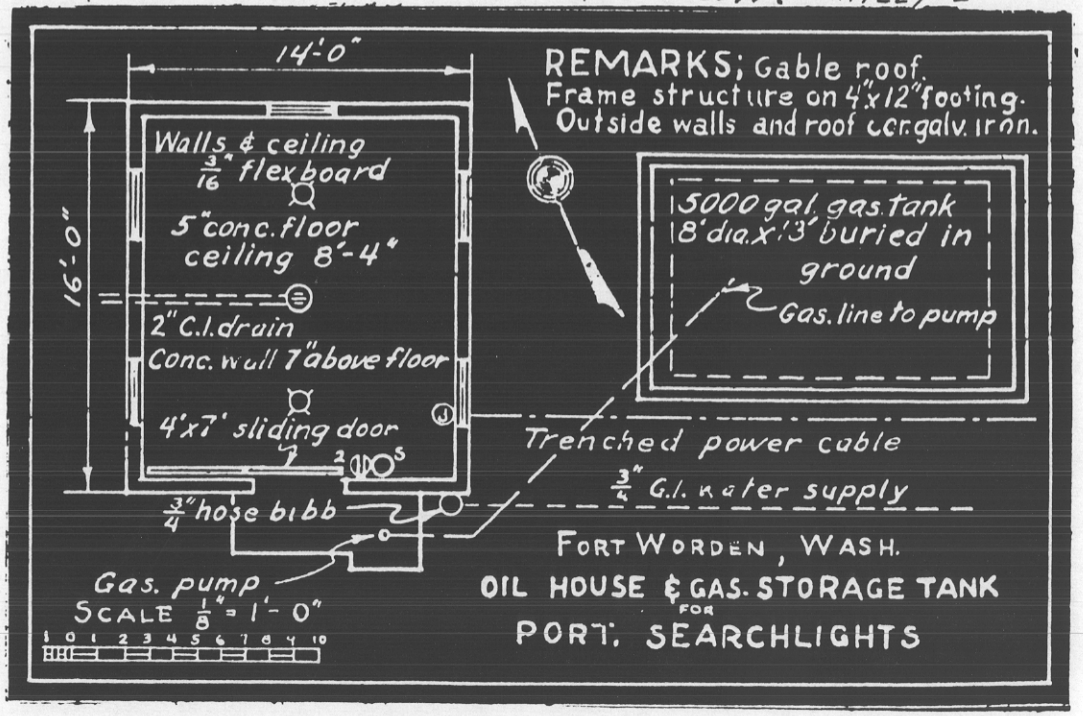
HARBOR DEFENSES OF PUGET SOUND
FORT WORDEN, WASHINGTON
STRUCTURE - OIL HOUSE AND GAS
STORAGE TANK FOR PORTABLE SEARCHLIGHTS

Form 2

Corrected to May 6, 1942

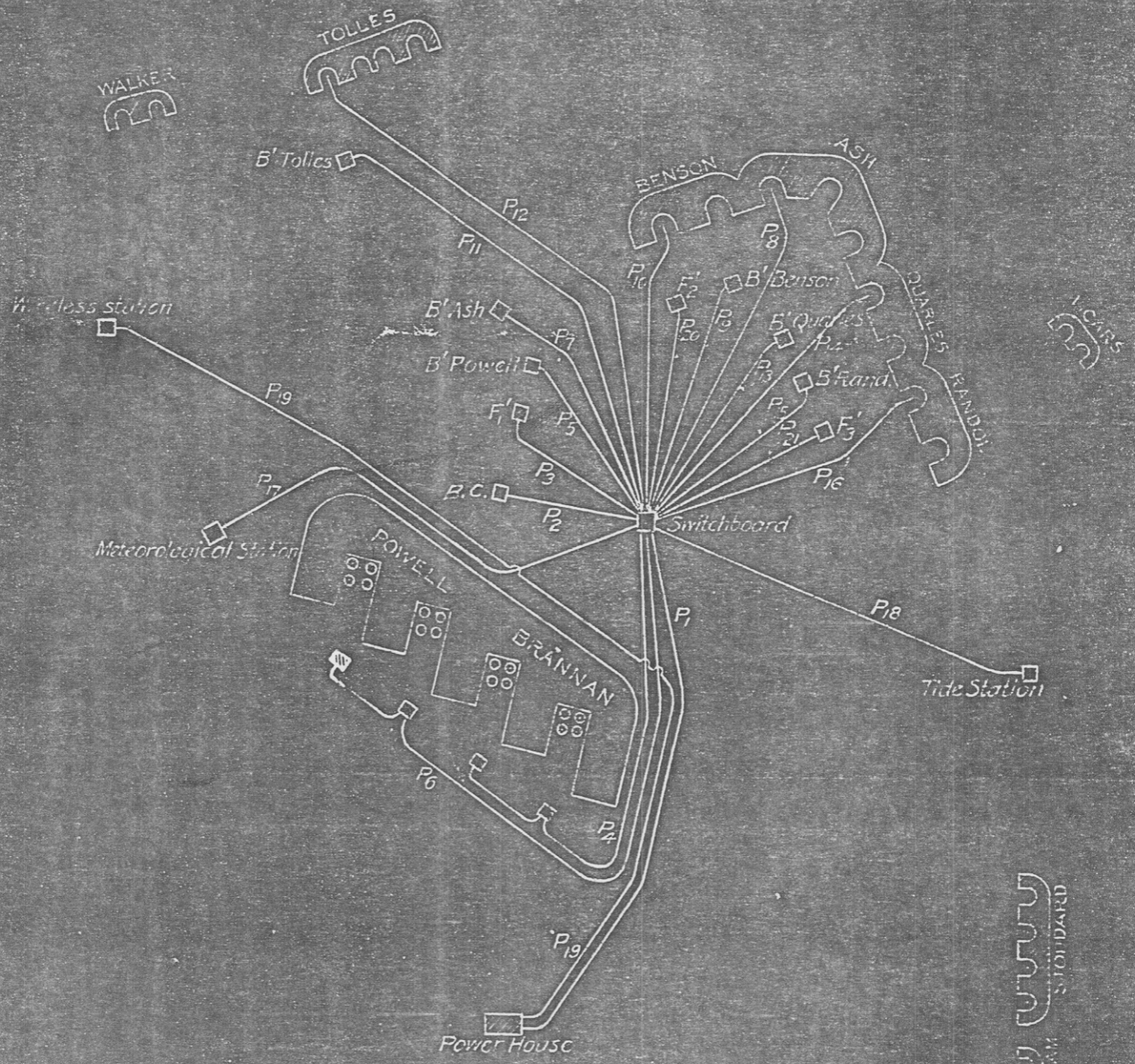
STRUCTURE:		DATA TRANSMISSION:	
Location	100 ft. west of Portable Searchlight Shelter #3	Type of	None
		STATIONS SERVED:	Portable Searchlights from Shelters 1, 2 & 3
Date of transfer			
Cost to date	$2100.00		
Type of construction			
(a) Roof & sides	Corr. galv. steel sheets		
(b) Frame	2" x 6" D.F.		
(c) Floor & Footings	Concrete		
How concealed	Hidden in clump of trees		
How protected	Not protected		
Hight above concealment	———		
Hight above protection	———		
Conspicuous at .... yards	50		
ELECTRIC CURRENT:			
Source of	Commercial		
Kilowatts required	0.2		
Type of Lighting fixtures	Commercial		
HEAT:			
How heated	Not heated		
WATER & SEWER:			
Connected to water mains	Yes, one outside hose bibb, south end		
Connected to sewer	No		
Type of latrine	None		
Permanent or Temporary Instln.	Permanent		
Present condition	Excellent		
REFERENCE:			
Reference of site (floor)	26.33		
Datum	M.L.W.		

NPD 660.91 (SEATTLE)-2



FORT WORDEN, WASH.

DIAGRAM OF POWER CABLES



H. Welch

Cir. Letter ED 104641 Feb. 15, 1917. Seattle 341.1/706
Worden 59/75

ELECTRIC PLANTS

Fort Worden

Central Power Plant.

(a) A reinforced concrete building 45' x 100' with concrete roof, steel doors, metallic window frames and sash, glazed with wire glass, located 740' south and 185' west from the center of pit A, battery Brannan, in a sheltered position under the sourthern slope of the hill and protected on the west by an earth parados.

The interior is divided by reinforced concrete partitions into a boiler-room 38' x 41' x 21½' high containing two Babcock & Wilcox 150 H.P. water tube boilers with reserve space for a third boiler of the same make and capacity; an engine room 31' x 41' x 17' high containing electrical units and switchboards; a storage battery room 24'6" x 42" also 17' high. The floors of the last two rooms are 4½' above the boiler room floor. A work room 8' x 14' is partitioned off one corner of the storage battery room, and the remainder is used for various equipment described below. The chimney is detached from the main building and consists of a 5/16" steel stack, 4' in diameter, 45' long, anchored to a reinforced concrete base 9'6" square and 28'9" high. A toilet is provided in the lower part of this base and connected with the post water and sewer system. Flues are rectangular, of No. 10 tank steel, 37" x 25" from each boiler. Main flue to stack is 24" x 60". The concrete portion of the flue is lined with fire brick. From the grate bars to top of the stack is 74'. Induced draft is provided for, if needed, by two tandem fans with 30" outlets, each directly connected with a 5 x 5 engine. Fans and engines are carried on a mezzanine platform 7' above the boiler room floor. Fuel is coal, delivered by team. Water connection is made with the post main at a static pressure of about 100 lbs. A vitrified conduit of 48 separate ducts leads from the wire well behind the switchboard to a manhole outside the building, and electric cables are installed from the switchboard to each battery.

Cost of the building, including installation of the machinery, $40,800.00. Construction commenced in 1904 and the complete plant, ready for operating, was transferred to the Artillery on June 20, 1907. Constructing Officers, Major (now Colonel) John Millis and Major (now Brig.Gen'l, retired) H.M. Chittenden. Receiving Officer, Captain (now Major) M.C. Buckey, Coast Art. Corps, Dist. Artillery Engineer.

(b) 1. Boilers:

Two Babcock & Wilcox water tube boilers each 150 H.P. with 72, 4" tubes 18' long, 1364 sq.ft. heating surface. 1 42" drum $\frac{1}{2}$" thick 23'3-5/8" long. Brand, O/H steel 56,000 lbs. Built to carry 200 lbs. pressure. Grates 4'10" x 7', 34 sq. ft. surface. Job. No. 4870. Purchased in June 1904. First cost of the two $7562.68. Boiler feed by a Snow duplex pump 6 x 4 x 6, No. 59673. Exhaust through a No. O Goubert vertical feed water heater, closed type. Steam connections to header and thence to three engines Nos. 1421, 1422 and 1419.

2. Engines:

Three McEwen automatic steam engines manufactured by the Ridgway Dynamo & Engine Co., Nos. 1421, 1422, and 1419, rated 150 H.P. stroke 14"; bore 15"; purchased in Nov. 1905, direct connected to generators Nos. 543, 545 and 546 respectively.

One 25 kw. gasoline engine described under (e).

3. Generators:

Three Thompson Ryan, D.C. dynamos Nos. 543, 545 and 546, design 232; cap. 75 kw.; 300 amp.; 250 volt; speed 265 r.p.m. Manufactured by the Ridgway Dynamo & Engine Co. Purchased with the engines. First cost of the three combined engines and dynamos, $9163.50. One generator direct connected with gasoline engine and described under (e).

4. Radiators:

One, for the gasoline engine and described under (e).

5. Motor Generators and Rotary Converters:

One Westinghouse D.C. motor, Serial No. 869613; No. 81; Type S.A.; Constant speed; Shunt wound; 45 H.P. 220 volt; 170 amp.; 1200 r.p.m.

One Westinghouse A.C. generator direct connected to above motor, Serial No. 869611; 30 kw. 2400 volt; 7.2 amp.; 3-ϕ; 60 cycle; 1200 r.p.m.

One fan motor for the radiator of the gasoline engine and described under (e).

6. Transformers:

None.

7. Storage Batteries:

None.

(c) Switchboard:

5 panels 22" x 48" and 1 panel 32" x 48", equipped as follows: 3 panels, Westinghouse Electric Co. Type 7-A, for the three Thompson-Ryan generators, with Westinghouse volt and ammeters, circuit-breakers, rheostats and 3-pole S.T. switches; two distributing panels each with 9 D.P.S.T. switches and one gas-motor generator panel, No. 131, equipped with Weston voltmeter and ammeter, Sangamo watt-hour meter, rheostat, circuit breaker and 3-pole S.T. switch.

Switchboard for Westinghouse Motor Generator:

A two-panel Westinghouse switchboard, Position 2, S.O. 40076, D-41101-A, marble, each 22" x 72", equipped respectively with D.C. and A.C. voltmeters and ammeters, rheostats, circuit-breakers, voltage and series transformers and resistances.

(d) The Westinghouse motor and generator described under (5) furnish power and light to batteries Kinzie and Vicars, 3400 feet from Central Power House, at 2200 A.C. volts.

The gasoline engine and generator described under (e) furnish light for streets, quarters and barracks when other circuits are not in use.

(e)

1. One 25kw. gasoline Set No. 163, gas motor 6863; Type G.M.12; Form A-2; 43/54 H.P; Speed 560; 4 stroke cycle; direct connected to

2. Generator: No. 368928; General Electric Co.; Type M.P.C. 6-25-560; Amp.109; Speed 560; Volts - no load 230; full load 230.

3. Radiator: No. 8125; Type FF 54; Form B-2

4. Continuous current motor for radiator fan: Series wound; No. 354056; Type CQ-3; Form 366; Speed 1050; Volts 230; Closed H.P. 3; Amp. 12.

5. Switchboard Panel No. 131: Described under (c).

In addition to the foregoing listed equipment, the Constructing Quartermaster has installed the following in the storage battery room, viz:

One Hornsby-Akroyd Oil Engine:
No. 2705, belt connected to

One Generator:
General Electric Co. Type M.P. 10681; Form H; Class 4-9-1450; Amp. 72; Speed 1275; Volt - no load, 110; Volt - full load, 110.

One Westinghouse Rotary Converter:
50 kw. 230 D.C. volts; 217 D.C. Amp.; 3-ϕ; 60 cycle; 1200 r.p.m.; Serial No. 1109502.

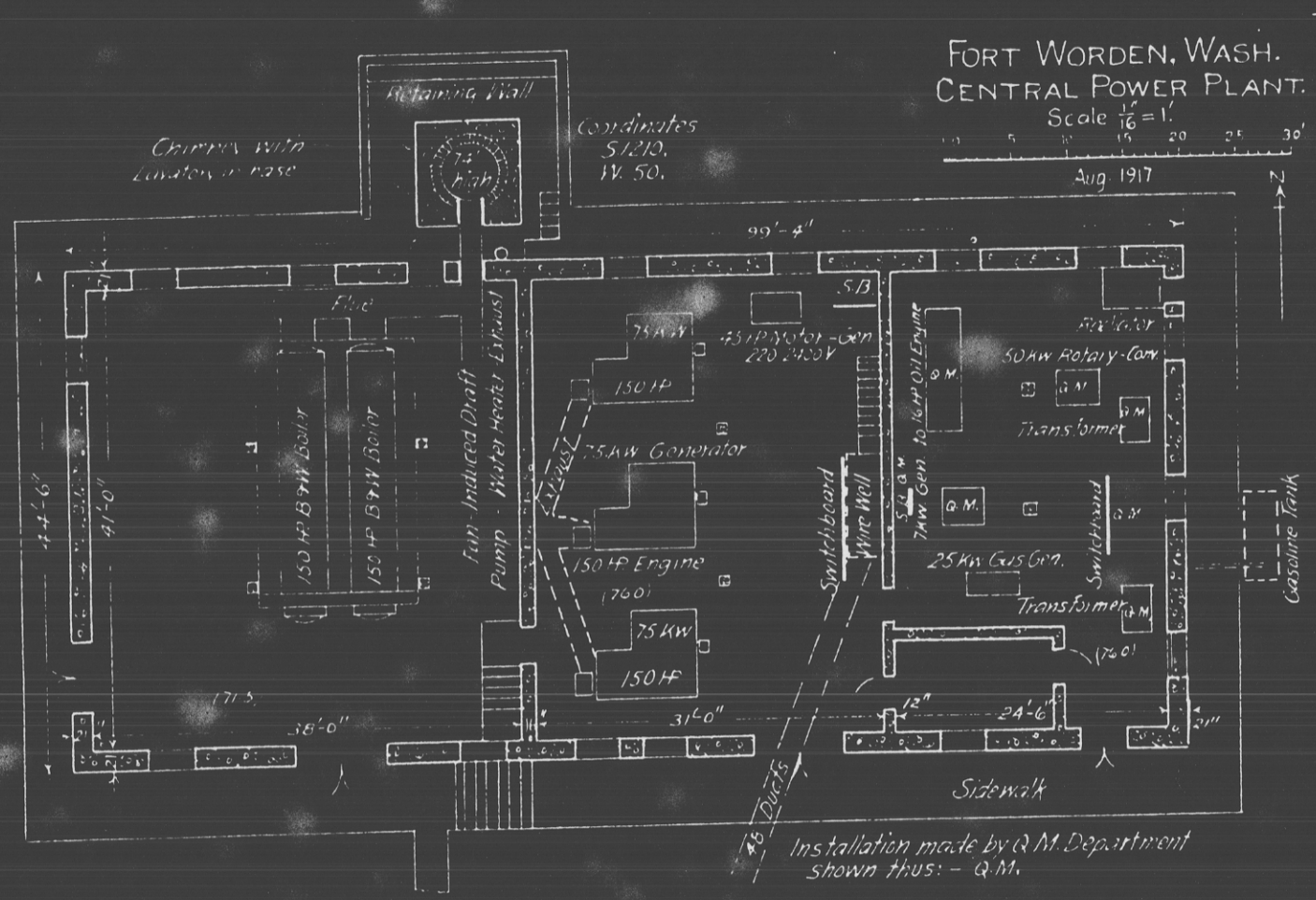
Two Westinghouse Transformers:

One 4-panel Switchboard equipped with metering instruments and switches.

One Switchboard for the oil-engine equipped with volt and ammeter, rheostat and switches.

(f) The Central Plant with the primary equipment of boilers, engines generators and switchboards was transferred to the Artillery on June 20, 1907; the Kinzie transmission line with that battery on January 10, 1912, and the 25 kw. gasoline generating set No. 163, on May 31, 1912.

(g) Present condition excellent and each unit is probable good for 15 years additional life.


FORT WORDEN, WASH.
CENTRAL POWER PLANT.
Scale 1/16" = 1'.
Aug. 1917
Retaining Wall
Chimney with Lavatory in base
74' high
Coordinates S.1210. W. 50.
99'-4"
Flue
150 HP B&W Boiler
150 HP B&W Boiler
Fan - Induced Draft
Pump - Water Heater - Exhaust
75 KW
150 HP
75 KW Generator
150 HP Engine
(760)
75 KW
150 HP
45 HP Motor - Gen 220 2400 V
S.B.
Switchboard
Wire Well
7 KW Gen. to 16 HP Oil Engine
Q.M.
Reactor
50 KW Rotary - Conv.
Transformer
25 KW Gas Gen.
Transformer
Switchboard
Gasoline Tank
44'-6"
41'-0"
38'-0"
31'-0"
12"
24'-6"
Sidewalk
48 Ducts
Installation made by Q.M. Department shown thus: - Q.M.

REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS
(Electric Plants)

CENTRAL PLANT, Sheet 1 of 2 sheets.
HARBOR DEFENSES OF PUGET SOUND,
FORT WORDEN, WASH.
POWER FOR DEFENSIVE WORKS AND POST LIGHTING

Form 5. Corrected to December, 1932.

	Serial No.	Type	Size	Mfgr.	Date of transfer	Cost	Condition	RPM	Belt or direct drive	Radiator for Eng-ine No.	Fuel	Switchboard Material	No. of Panels
Boiler													
No.1		Water tube	150 HP	Babcock & Wilcox	June 20, 1907.	$7,562.68	Good				Coal		
No.2		"	150 HP	"			"				Coal		
Engine													
No.1	1421	McEwan	150 HP	Ridgway	"		"	265	Direct		Steam		
No.2	1422	"	150 HP	"	"		"	265	"		"		3 gen-erator and 2 feeder panels cost $644.20
No.3	1419	"	150 HP	"	"	$9,163.50	"	265	"		"	Marble	
Generator													
No.1	543	Thomp-son	75 KW	"	"		"	265	"				
No.2	545		75 KW	"	"		"	265	"				
No.3	546	Ryan	75 KW	"	"								
Motor-Generator													
Motor	869613	SA	45 HP	Westing-house	Jan.10, 1912		"	1200	"			Marble	2
Gen.	869611	3Ph60C	30 KW	"	"		"	1200	"				
Transformer													
QM No.1			50 KW	"									
QM No.2			100 KW	"									
QM No.3			10 KW	Gen.Elec. Co.								Marble	4
Auxiliaries													
QM Rotary Converter	1109502		50 KW	Westing-house		*							

DISTRIBUTION OF KW
POST LIGHTING
BATTERIES, ---------- Lights 55.31
" , ---------- Motors 90.90
FIRE CONTROL STRUCTURES

50.00 (Average night load)
146.21 (Connected load)
21.38 " "

*Total cost of Plant $64,000.00
(Paid from Engr.Funds $39,000.00)
(" " QM " $25,000.00)

REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS
(Electric Plants)

Form 5. Corrected to December, 1932.

CENTRAL PLANT, Sheet 2 of 2 sheets.
HARBOR DEFENSES OF PUGET SOUND,
FORT WORDEN, WASH.
POWER FOR DEFENSIVE WORKS AND POST LIGHTING.

	Serial No.	Type	Size	Mfgr.	Date of transfer	Cost	Condition	RPM	Belt or direct drive	Radiator for Engine No.	Fuel	Switchboard Material	Switchboard No. of Panels
Engine No. 4	6863	GM-12	43/54 HP	Gen. Elec. Co.	May 31, 1912	*	Excellent	560	Direct		Gasoline	Volts 220 DC; Wire 2; Used for Dist. Panels No	1
Generator No. 4	368928	MPC	25 KW	"	"		"	560	"				
Radiator No. 1	8125	FF 54 Form B-2		"	"		"		"	6863			
Switchboard	131											Marble	1
Radiator Fan Motor No. 1	354056	CQ3	3 HP	"	"		"	1050					

See L75.1 (4th Cir.)

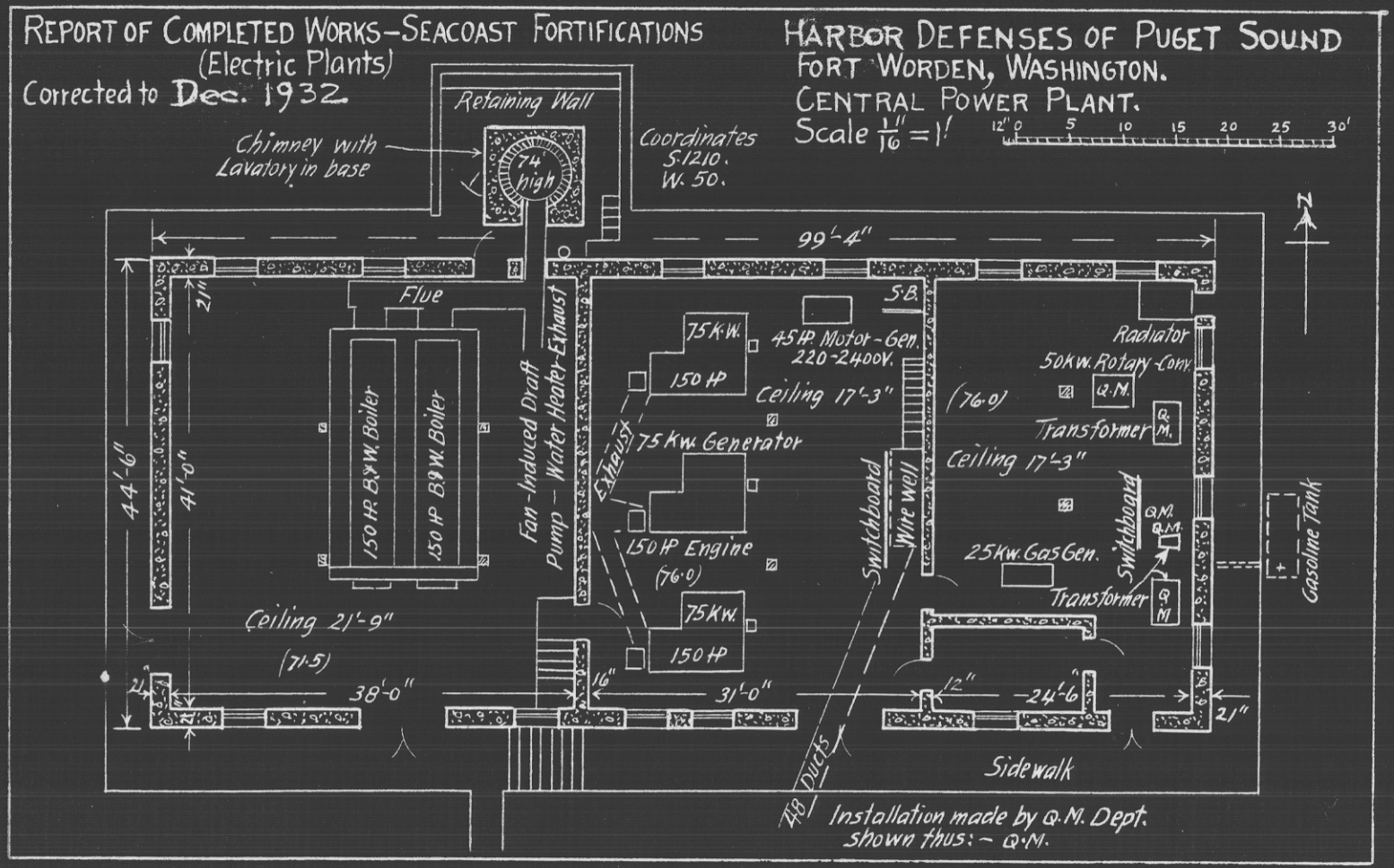
*STATEMENT OF COST

Cost of Installation - - - - - - - - $1,000.00

REPORT OF COMPLETED WORKS—SEACOAST FORTIFICATIONS
(Electric Plants)
Corrected to Dec. 1932.

HARBOR DEFENSES OF PUGET SOUND
FORT WORDEN, WASHINGTON.
CENTRAL POWER PLANT.

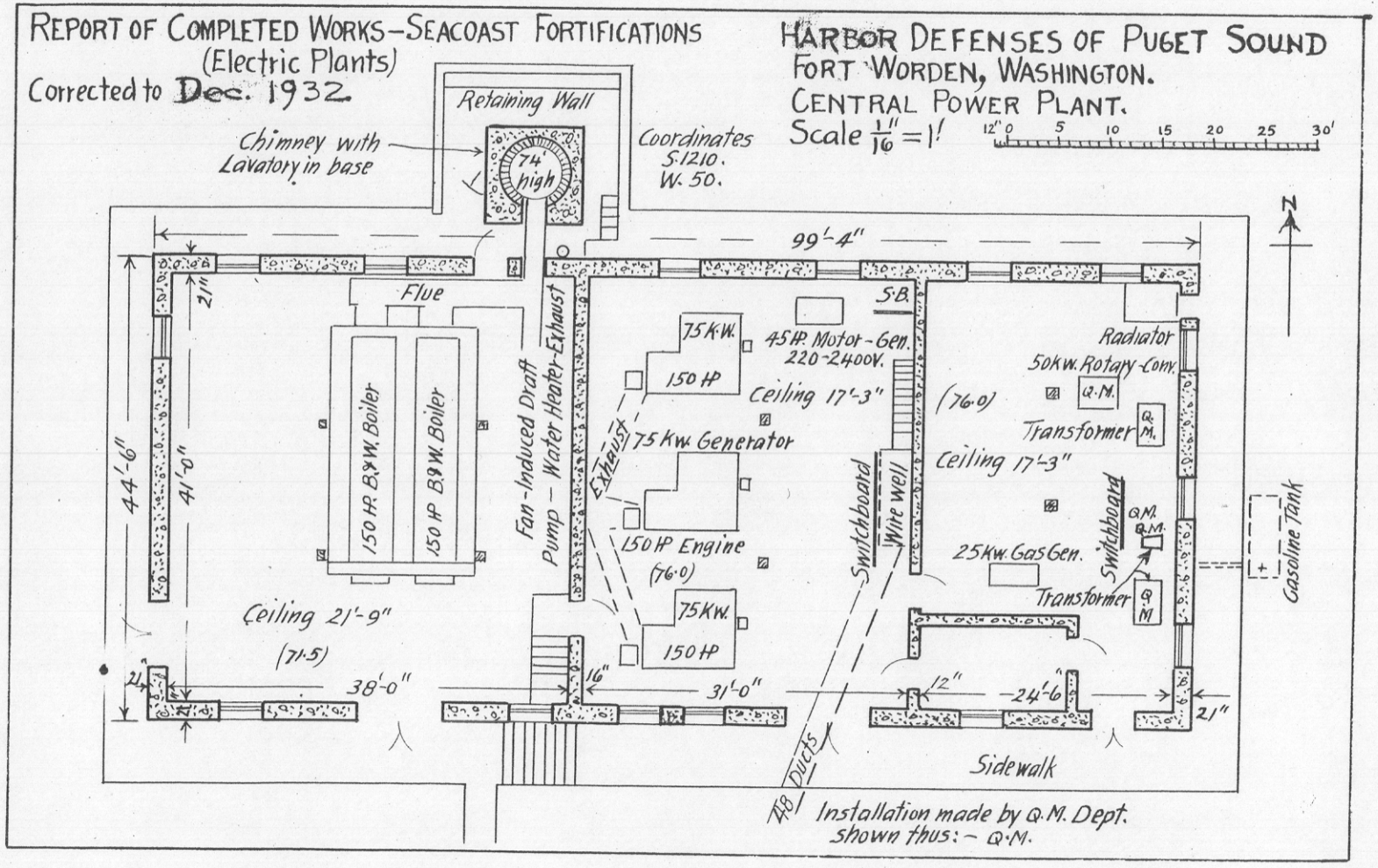
Scale $\frac{1}{16}$" = 1'



Installation made by Q.M. Dept. shown thus:- Q.M.

REPORT OF COMPLETED WORKS—SEACOAST FORTIFICATIONS
(Electric Plants)
Corrected to Dec. 1932.

HARBOR DEFENSES OF PUGET SOUND
FORT WORDEN, WASHINGTON.
CENTRAL POWER PLANT.
Scale 1" = 10'



Installation made by Q.M. Dept. shown thus:— Q.M.

Switchboards for G M - 12 Sets.

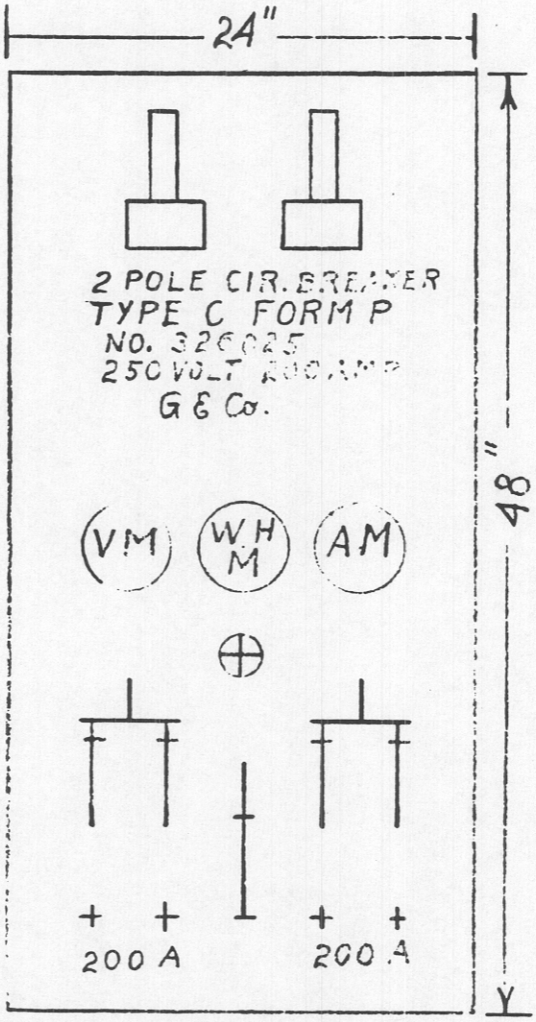
Located at Stored at Ft. Worden, Wash. *until needed for installation elsewhere.* Date December 11, 1931

Serial No.	Type	Size	No. of Panels	Material of Panels	Manufacturer	Generator or Feeder (1)	Volts	2 or 3 wire	Complete	Condition (2)	For Generator Serial No.
	None	20X 102"	2	Marble	Walker Co.	1-Generator 1-Feeder	115	2-wire	Complete	Good	183235
				(Switchboard listed below is U.S. Corps property)							
99309	CTG	24 X 48"	1	Marble	General Electric Company.	1- Generator	225-250	3-wire	Complete	Fair	368927

(1) For feeder panels give number and capacity of switches. See sketch attached.
(2) New, Reclaimed, poor, State which. Removed from service at Fort Ward, Wash., condition Good.

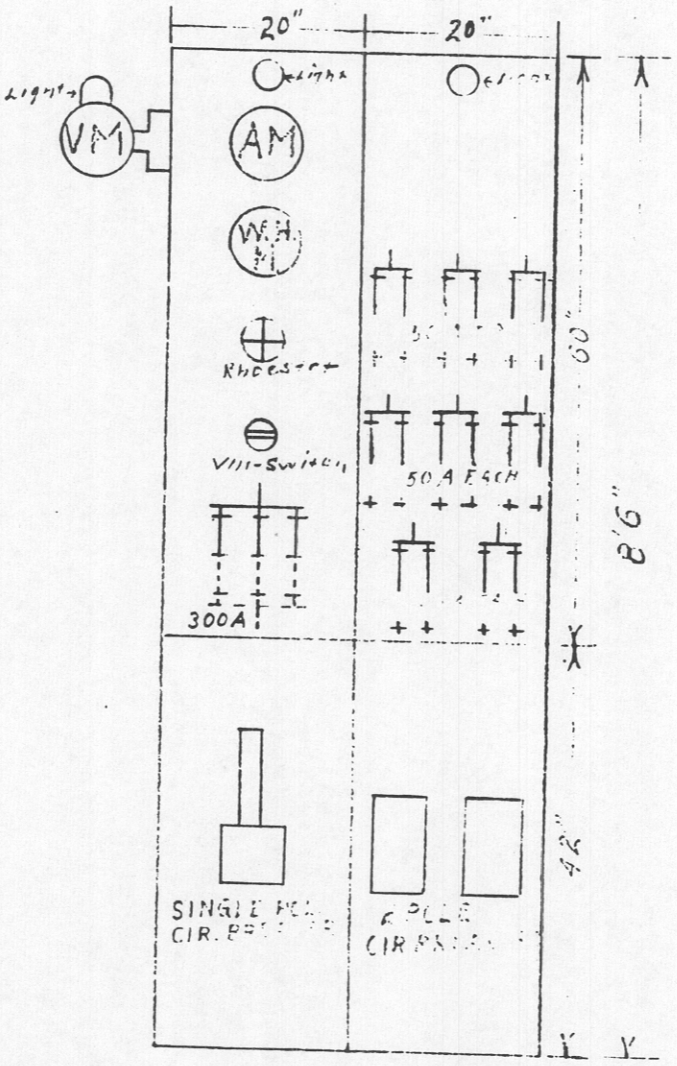
U.S. ENGINEERS AREA DEC 14 1931

FACE SKETCH OF SWITCHBOARD



FOR USE WITH GENERATOR
NO. 368927.

Scale 1/10" = 1"



FOR USE WITH OPERATOR
SERIAL NO- 3235

REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS (Electric Plants)

SUPPLEMENTARY REPORT

HARBOR DEFENSES OF PUGET SOUND, FORT WORDEN, WASH.
POWER FOR (SURPLUS SET)

Form 5. Corrected to December, 1932.

		Serial No.	Type	Size	Mfgr.	Date of transfer	Cost	Condition	RPM	Belt or direct drive	Radiator for Engine No.	Fuel	Switchboard Material	Switchboard No. of Panels
Gas Engine	No.1	5373	GM-12	43/54 HP	G.E.Co.	#	Unknown. Received by transfer.	Good	560	Direct		Gasoline	Volts 115 DC; Wire 2	Used for QM power No } See 675.1 (9th C.A.) 1
Generator	No.1	183235	MPC FormA	25 KW	"			"	560	"				
Radiator	No.1	None			"			"			5373			
Fan Motor	No.1	179904	CQ 3	3 HP	"			"	1050					
Switchboard		21		40" X 82"	Walker Co.								Marble	2

\# REPORT UNDER PAR. 5, CIRCULAR LETTER FORT.#8, C. OF E. 660 B-F, AUGUST 19,1921.

This set was installed at Battery Nash, Fort Ward, Washington, and was transferred to Artillery on April 5,1910, to furnish power and light to Battery Nash, F.C.Stations, and Mine Stations. All fortification equipment having been removed from Fort Ward, this set was re-transferred to Engineer Department and is now in storage in engineer warehouse at Fort Worden. This set is in good condition and complete except that it has no gasoline tank and tank fittings.

This SET is surplus and available for transfer.

(1) See 675.1 (9th C.A.) 1 :- Eng. # 5373 originally installed at Btry. Nash, Ft. Ward, Wash., 4/5/10. Later retransferred to Engineers.

25 KW - Gas Electric Generating Sets

Located at Stored at Ft. Warden, Wash. until needed for installation elsewhere. Date December 11 1931

	Serial No.	Type	Volts	2 or 3 wire	A C or D C	R P M	Manufacturer	Received From	Received Date	Condition (New reclaimed Poor) (State which)
Engine	5373	G.M. Form A-2				560	General Elect	Artillery	1911	Removed from service at Ft. Ward, Wn
Generator	183235	M.I.C. From A	115	2-wire	D.C.	560	" "	"	"	" " Condition GOOD
Radiator	None						Rome Turny	"	"	" " Condition GOOD
Motor	179904	CQ 3 Form A323	115	2-wire	D.C.	1050	G.E.Co.	"	"	" " Condition GOOD
Engine										
Generator										
Radiator										
Motor		(The 25 KW set listed below is Q.M.Corps property)								
Engine	6862	GV-12 Form A9				560	General Elect. Company	Received by Q.M.Corps	1911	Removed from service at Ft. Ward, Wn
Generator	368927	MPC-6	125-150	3-wire	D.C.	560	" "	"	"	Condition Fair
Radiator	8124	FF-54 Form B-2					" "	"	"	" "
Motor	354118	CQ-3	230	2-wire	D.C.	1050	" "	"	"	" "

RECEIVED ENGR. 9TH CORPS DEC 14 1931

600,914(Puget Sound)-1 64027

REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS
(Fire Control or Torpedo Structures)

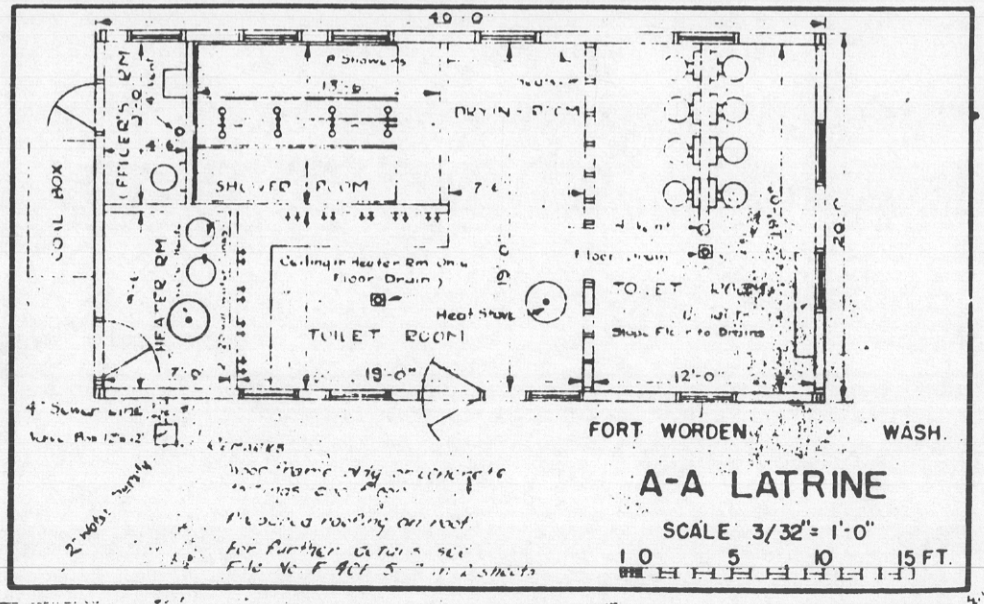
HARBOR DEFENSES OF PUGET SOUND
FORT WORDEN, WASHINGTON
STRUCTURE AA LATRINE

Form 2. Corrected to 23 July 1943

SECRET

64027

STRUCTURE:		INSTRUMENTS AND EQUIPMENT:	None
Location	Fort Worden Hill		
		DATA TRANSMISSION:	None
Date of transfer	23 July 1943		
Cost to that date	$2750	REMARKS:	Structure contains toilet room, wash room, shower room, officer's room and heater room. The latter is equipped with a coal-fired hot water heater and 2-120 gallon hot water tanks
Type of construction	Wood frame		
(a) Roof	Prepared roofing		
(b) Remainder of bldg.	Conc. footings and floor		
How concealed	Among trees		
How protected	Not protected		
Height above concealment	Under trees	NOTE:	To serve manning personnel of AA Battery No. 3, Fort Worden, Washington.
Height above protection	14 feet		
Conspicuous at	1000 yds		
ELECTRIC CURRENT:			
Source of	Commercial		
Kilowatts required	1.0		
Type of lighting fixtures	Commercial		
HEAT:			
How heated	coal stove		
WATER & SEWER:			
Connected to water mains	Yes		
Connected to sewer	Yes		
Type of latrine	Syphon - sewer		
Permanent or temporary inst'ln	Permanent		
Present condition	Excellent		
REFERENCE:			
Reference of site	Mean Sea Level		
Elevation of floor	236.7'		



Proj Card 10849

SECRET

REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS
(Fire control or torpedo structures)

CONFIDENTIAL

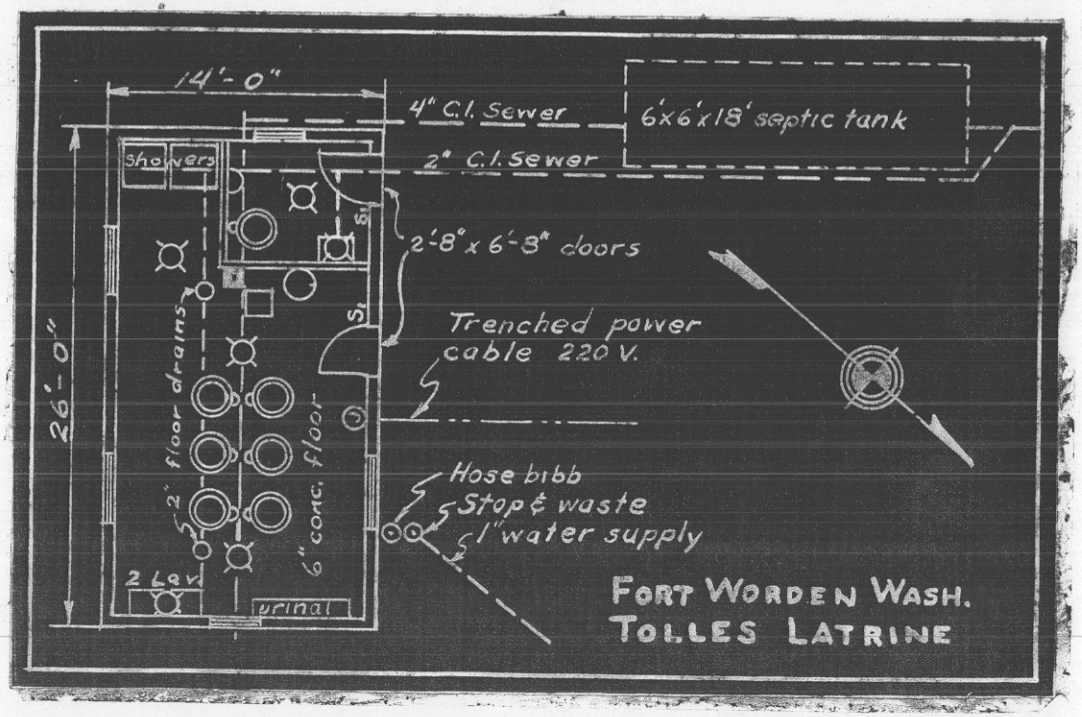
HARBOR DEFENSES OF PUGET SOUND
FORT WORDEN, WASHINGTON
STRUCTURE - TOLLES LATRINE

Form 2

Corrected to July 6, 1942

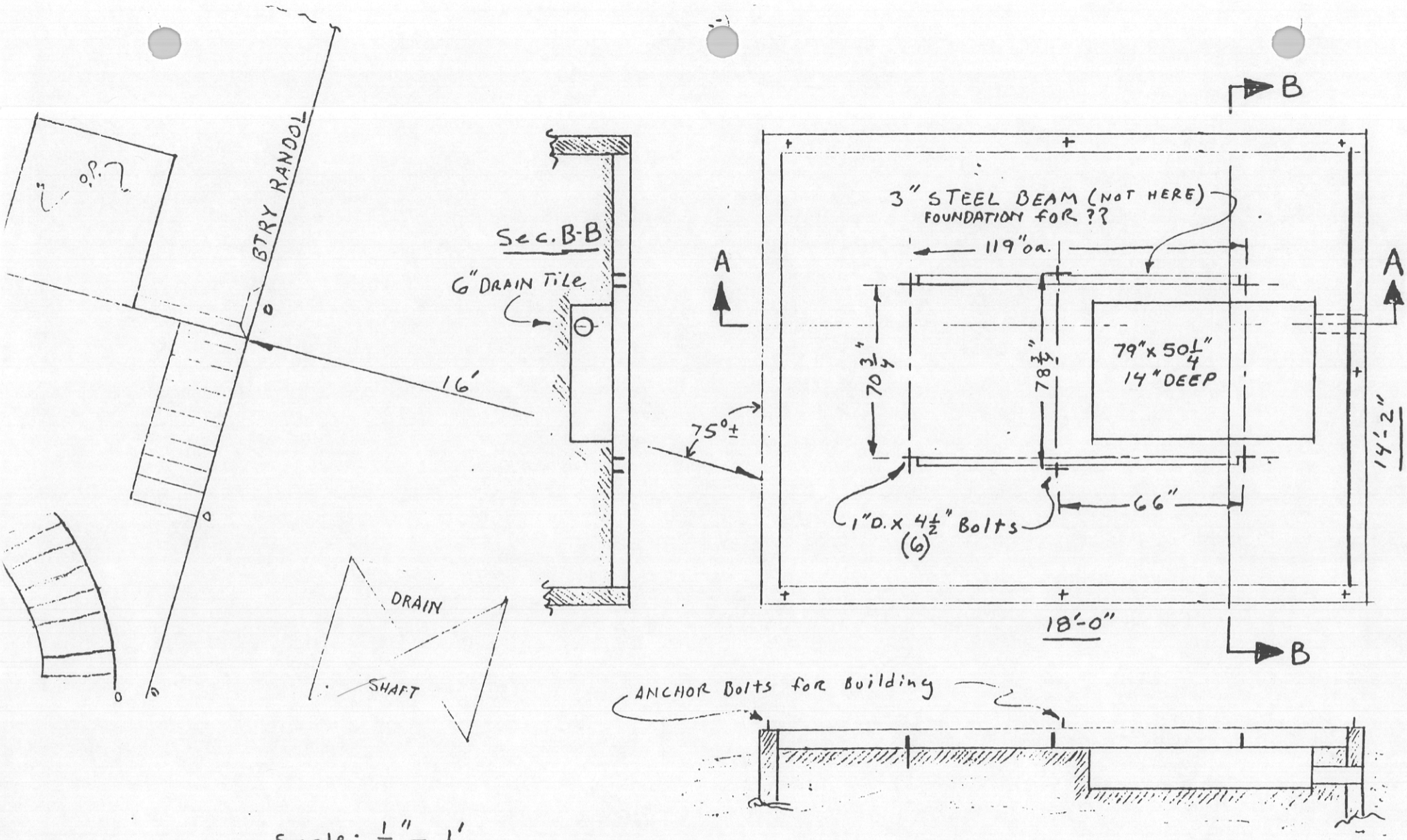
STRUCTURE:	
Location	150 ft. south of gun No. 2 Tolles B
Date of transfer	July 6, 1942
Cost to date	$3,500.00
Type of construction	
(a) Roof	Tar paper over shiplap
(b) Sides	V rustic over building paper and shiplap
(c) Frame	2"x4" D.F.
(d) Floor & footings	Reinforced concrete
How concealed	Hidden in trees
How protected	Not protected
Height above concealment	———
Height above protection	———
Conspicuous at .... yards	20
ELECTRIC CURRENT:	
Source of	Commercial
Kilowatts required	0.5
Type of Lighting fixtures	Commercial
HEAT:	
How heated	Coal water heater
WATER & SEWER:	
Connected to water mains	Yes
Connected to sewer	Has own septic tank and drain to bluff
Type of latrine	Siphon
Permanent or Temporary Instln.	Permanent
Present condition	Excellent
REFERENCE:	
Reference of site	172.414
Datum	M.L.W.

DATA TRANSMISSION:	
Type of	None
STATIONS SERVED:	Battery Tolles-B



Perry Card 39

CONFIDENTIAL



Scale: $\frac{1}{4}" = 1'$

Sec. A-A

Foundation to RIGHT of BTRY RANDOL
Ft. WORDEN, WASH.

* Built BEFOR 1934, AND ABANDONED.

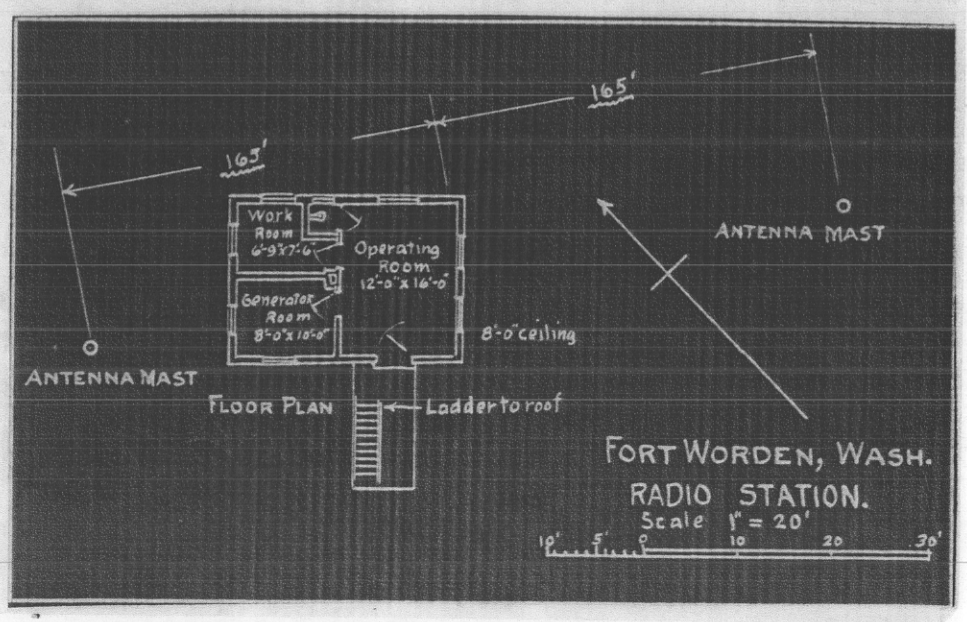
REPORT OF COMPLETED WORKS SEACOAST FORTIFICATIONS
(Fire Control or Torpedo Structures)

HARBOR DEFENSES OF PUGET SOUND
FORT WORDEN, WASHINGTON
STRUCTURE RADIO STATION

Form 2 Corrected to October 24, 1931.

Location: Approximate coordinates referred to C_1F_1, initial point	S. 210. E. 360.	670 feet west of Gun No. 1 Randol.	
Date of transfer	June 16, 1909.		
Cost to that date	$2800.00		
Type of construction			
(a) Roof	Slate		
(b) Remainder of building	Brick walls, concrete found.		
How concealed	No concealment		
How protected	No protection		
Conspicuous at	Masts at 10,000 yards		
Source of electric current	Plant at Battery Ash, Central Power Plant or Commercial Power		
Kilowatts required	2.0 (Power & lights)		
Type of lighting fixtures	Commercial		
How heated	Stove		
Connected to water mains	Yes		
Connected to sewer	Yes		
Type of latrine	Syphon		
Permanent or temporary instal.	Permament		
Present condition	Excellent		
Reference of site	254.0 Ft. M.L.W.		

Remarks	
	Top of masts 135 feet above ground
Radio Telephone & Telegraph Set, Type SCR 152	Two 150 foot fir pole guyed masts ereected in F.Y.1930 by Signal Corps at a cost of $2000.00
Antenna: inverted "L"	
	Radio masts transferred October 15, 1931.



Superseded – See
Form 2 corrected to May 1943

Plan 103-118-546

660 B(Puget Sound)51

600.914 (Puget Sound) CM 66831

REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS
(Fire Control or Torpedo Structures)

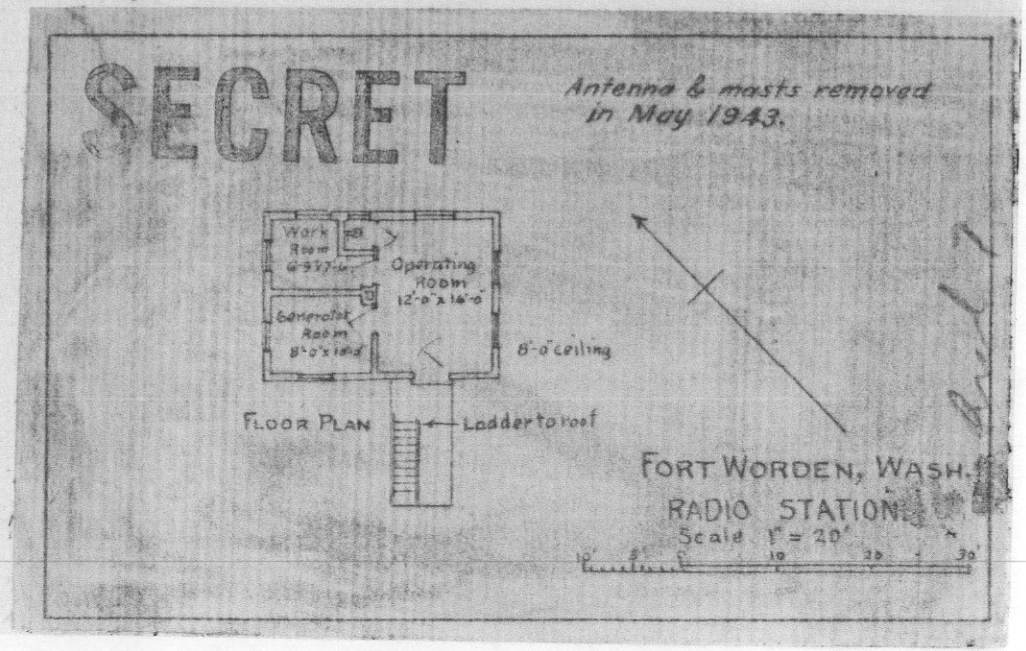
HARBOR DEFENSES OF PUGET SOUND
FORT WORDEN, WASHINGTON
STRUCTURE RADIO STATION

SECRET

Form 2. Corrected to May 1943

Location: Approx. coords.	X 296,006 yd.
(Fuca Lambert grid)	y 78,249 yd.
Date of transfer	16 June 1909
Cost to that date	$2,800.
Type of construction	
(a) Roof	Slate
(b) Remainder of building	Brick walls, concrete found.
How concealed	No concealment
How protected	No protection
Conspicuous at	500 yards
Source of electric current	Plant at Battery Ash or commercial power
Kilowatts required	2.0 (power & lights)
Type of lighting fixtures	Commercial
How heated	Stove
Connected to water mains	Yes
Connected to sewer	Yes
Type of latrine	Syphon
Permanent or temporary instl'n.	Permanent
Present condition	Good
Reference of site	254.0 ft. M.L.W.

Remarks: Antenna masts removed in May 1943. Structure now being used for storage and workshop.



4577

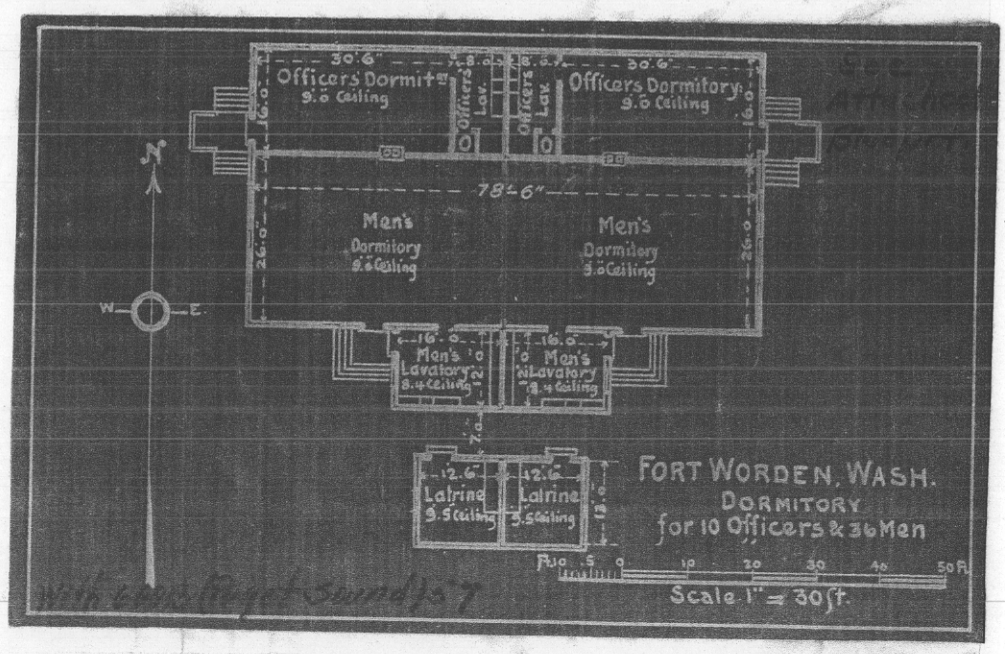
REPORT OF COMPLETED WORKS. SEACOAST FORTIFICATIONS
(Fire Control or Torpedo Structure)

Corrected to July 1935

Form 2. Corrected to September 1932.

HARBOR DEFENSES OF PUGET SOUND
FORT WORDEN WASH.
STRUCTURE. LATRINE

Location	Rear of Central Quarters Bldg.
Date of Transfer	June 16,1908
Cost to that date	Included with cost of Central Quarters Building
Type of construction	
(a) Roof	Asphalt-felt roofing over shiplap
(b) Remainder of building	Sewell type (Frame-plaster)
How concealed	By Central Quarters
How protected	By Central Quarters
Source of electric current	Plant at Bat.Ash, Central Plant or Commercial Power.
Kilowatts required	0.24
Type of lighting fixtures	Commercial
How heated	No heat
Connected to water mains	Yes
Connected to sewer	Yes
Type of latrine	Syphon
Permament or temporary installation	Permament
Present condition	Excellent
Reference of site	258. Ft.M.L.W.

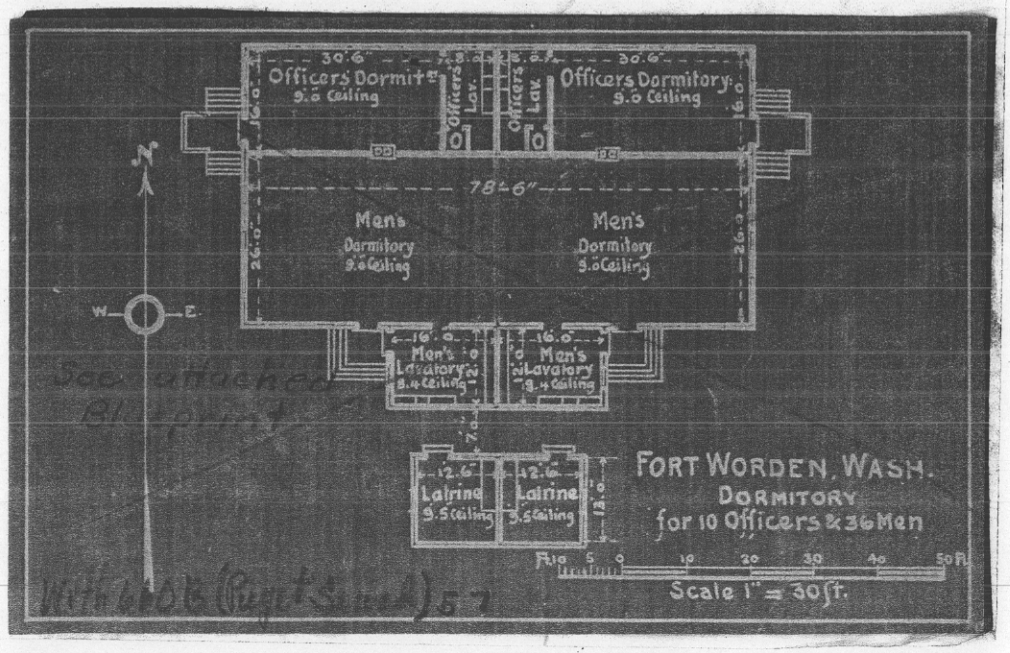


REPORT OF COMPLETED WORKS. SEACOAST FORTIFICATIONS
(Fire Control or Torpedo Structure)

Form 2. Corrected to July 1935
Corrected to September 1932.

HARBOR DEFENSES OF PUGET SOUND
FORT WORDEN WASHINGTON
STRUCTURE. CENTRAL QUARTERS BUILDING

Location	:In excavation between C1F1 & B'1	:For dormitories give the stations served	:Serves all primary stations at Worden.
Date of transfer	:June 16, 1908	:	:
Cost to that date	:$9674.81 (Includes cost of latrine in rear)	:	:
Type of construction	:	:	:
(a)Roof	:Asphalt-felt roofing over shiplap	:	:
(b)Remainder of building	:Sewell type (frame-plaster)	:	:
How concealed	:Earth slopes	:	:
How protected	:Earth slopes	:	:
Height above concealment	:7 feet from front	:	:
Height above protection	:7 feet from front	:	:
Source of electric current	:Plant at Bat.Ash, Central Plant or Commercial Power	:	:
Kilowatts required	:1.8		
Type of lighting fixtures	:Commercial		
How heated	:Stoves		
Connected to water mains	:Yes		
Connected to sewer	:Yes		
Type of latrine	:Syphon		
Permamanent or temporary installation	:Permament		
Present condition	:Excellent		
Reference of site	:260.5 Ft.M.L.W.		



REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS
(Wharf and Tramway)

Form 3 Corrected to April, 1927.

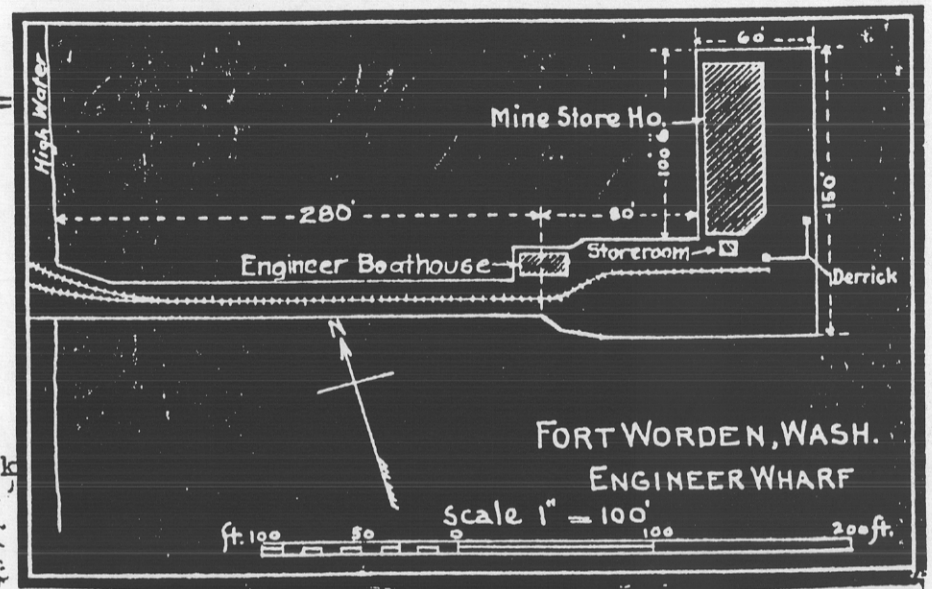
WHARF	
Location	85 ft. north of Q.M. Wharf
Date of transfer	Not transferred
Cost in 1898 including gravel bunker, warehouse and approach	$9,395.15
Paid for by	U. S. Engineer Department
Type of construction	Wooden
Depth of water (datum)	28 ft. (mean low water) at face of dock
Mean range of tide	6 ft.
Davits installed	No
Type and capacity of derrick	Stiff leg-5 tons - belongs to the Ordnance.
Wharf used by	Engineer Department and the Artillery. Used as mine wharf by the latter.
Condition	Good
Remarks	Repaired F.Y. 1918, cost, $8,100.00 " " 1920, " 1,880.45 " " 1921, " 6,297.08 " " 1924, " 1,200.00 " " 1926, " 900.00 Total cost of repairs $18,377.53

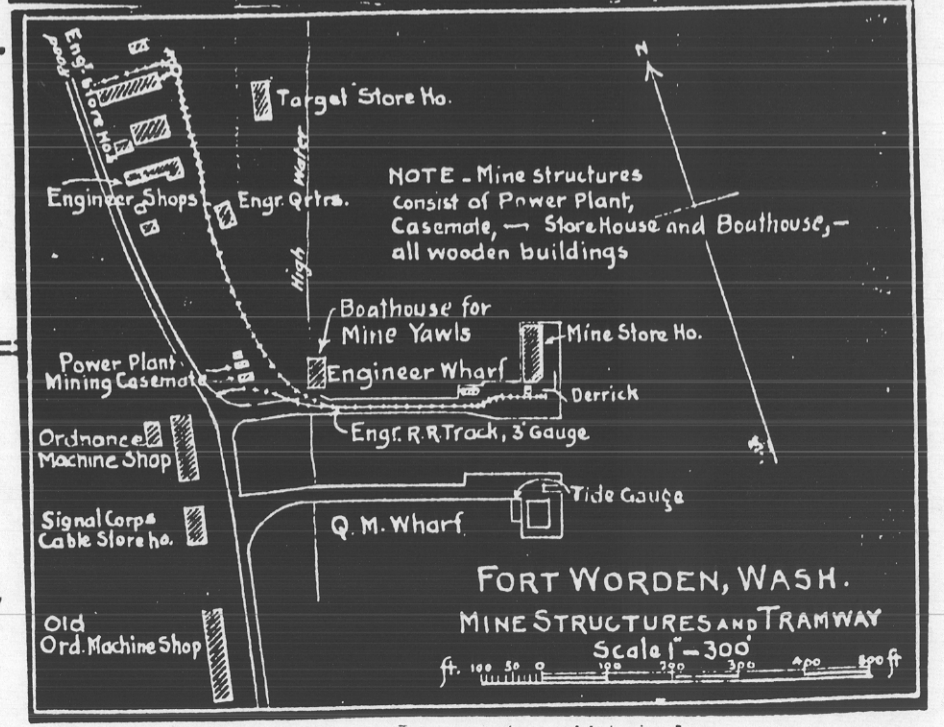
Repaired F.Y. 1932 - $5,114.00
60K (Puget Sd) 108 & 117
plus $30.00 ea. for addnl piles as required.

TRAMWAY	
Location	Wharf to Engineer Shops
Date of transfer	Not transferred
Cost	Not known, built from old and surplus material
Length	1500 feet
Gauge	3 feet
Steepest grade	Level
Equipment	1 flat car
Condition	Fair
Remarks	

Superseded by Form 3, corrected to Dec, 1932

HARBOR DEFENSES OF PUGET SOUND
WHARF AND TRAMWAY
FORT WORDEN, Wash.



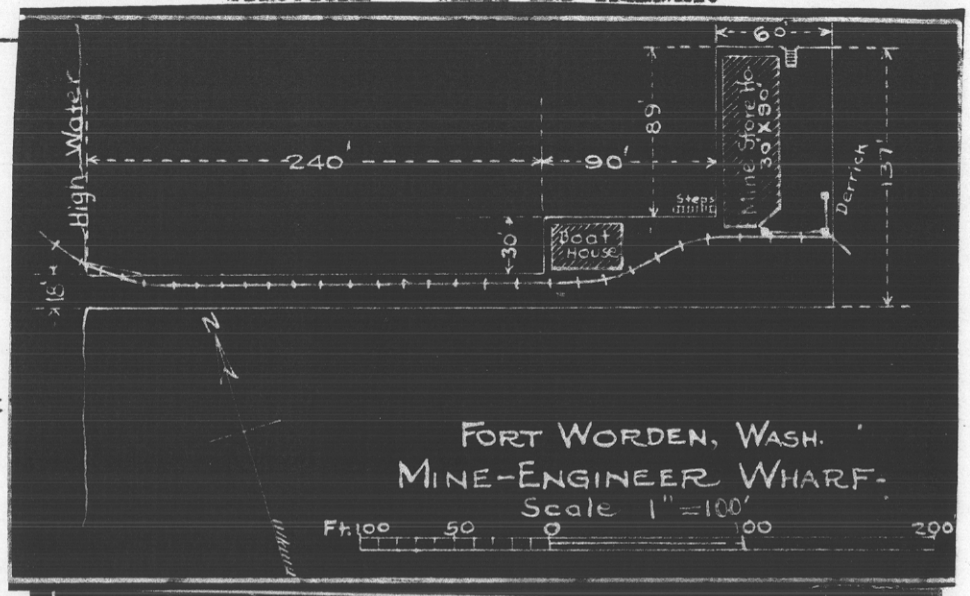


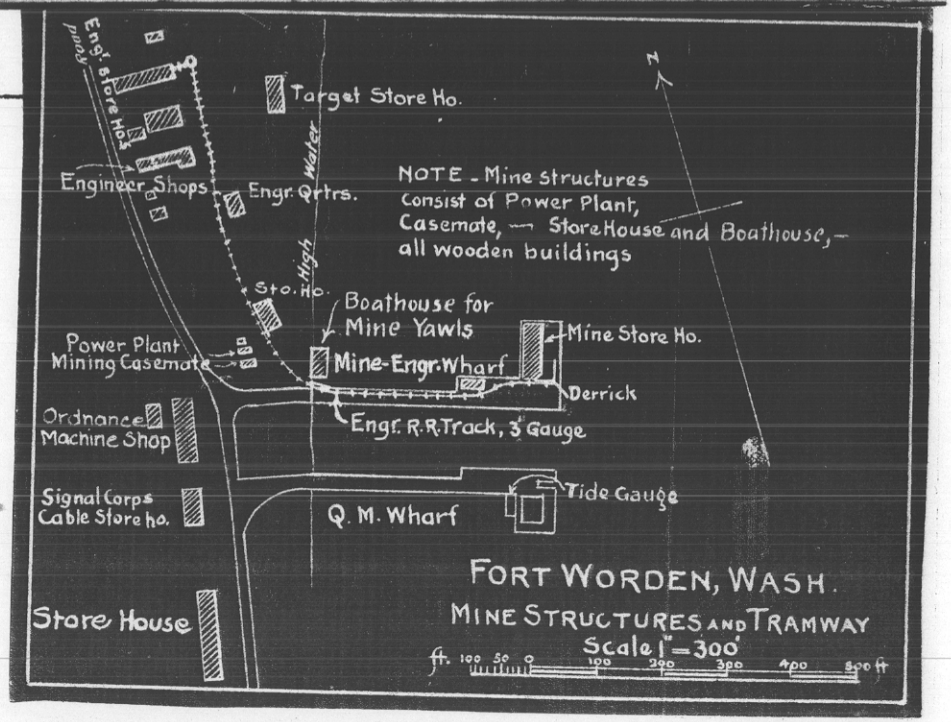
REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS
(Wharf and Tramway)
Form 3. Corrected to December, 1932.

HARBOR DEFENSES OF PUGET SOUND,
FORT WORDEN, WASH.
STRUCTURE WHARF AND TRAMWAY.

WHARF	
Location	85 ft. North of Q.M.Wharf
Date of transfer	Not transferred
Cost in 1898 including gravel bunker, warehouse and approach	$9,395.15
Paid for by	U.S.Engineer Department
Type of construction	Wooden
Depth of water (datum)	28 ft. (Mean low water at face of dock
Mean range of tide	6 feet
Davits installed	Yes
Type & capacity of derrick	Stiff leg-5 tons. Belongs to the Ordnance Dept.
Wharf used by	Engineer Department and the Artillery. Used as mine wharf by the latter.
Condition	Good.
Remarks	

TRAMWAY	
Location	Wharf to Engineer Shops
Date of transfer	Not transferred
Cost	Not known. Built from old and surplus material.
Length	1500 feet.
Gauge	3 feet.
Steepest grade	Level
Equipment	1 flat car
Condition	Fair
Remarks	





Superseded by Form 3,
Corrected to Mar 1, 1936

(OVER)

DECLASSIFIED PER EXECUTIVE ORDER 12356, SECTION 3.3, NND PROJECT NUMBER NND735036, BY RB/MB, DATE 8-4-94

600.914 (Puget Sound, Harbor Defense Of

Part II

CUT-OFF AS OF 31 DECEMBER 1945

With 6636 (Puget Sd ...

REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS
(Wharf and Tramway)
Form 3. . . . . .Corrected to March 1, 1936.

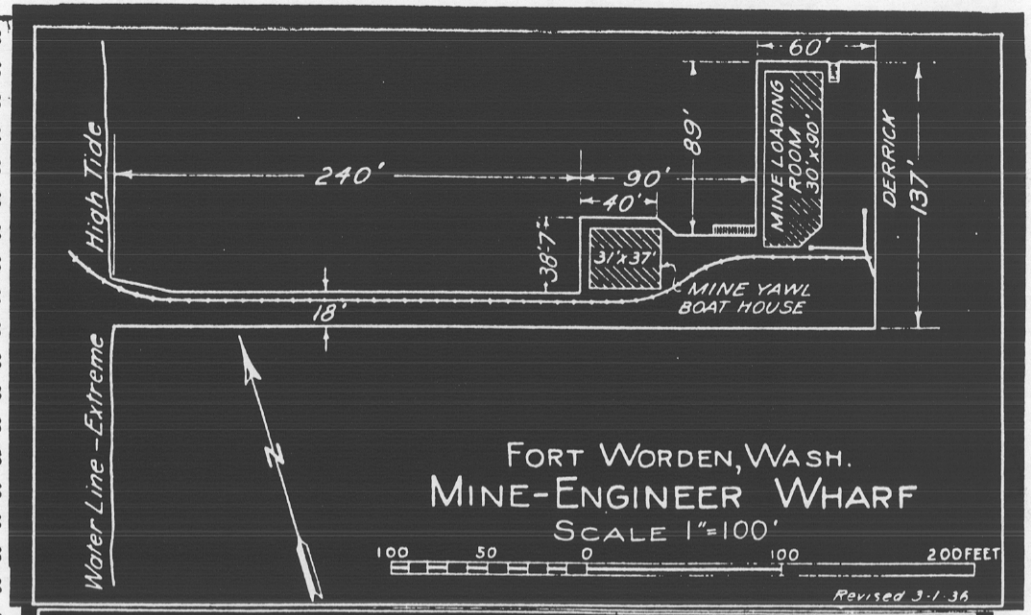
HARBOR DEFENSES OF PUGET SOUND,
ORT WORDEN, WASH.
STRUCTURE: WHARF AND TRAMWAY.

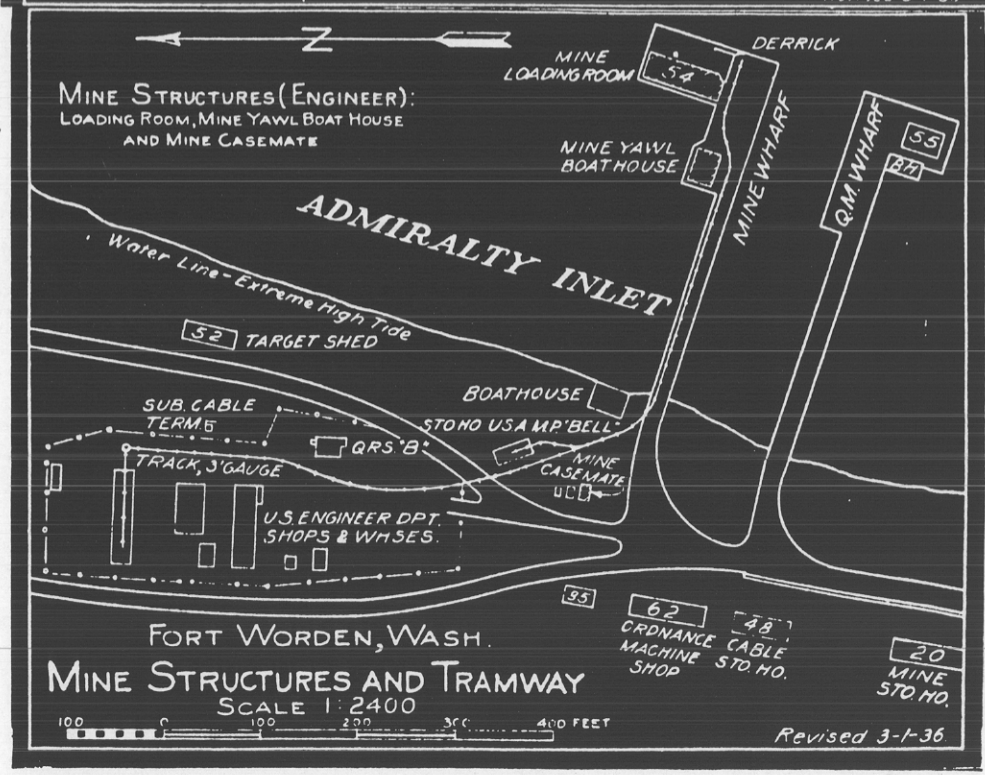
WHARF	
Location	1400 ft N.E. of HD Hqrs. & 85 ft N. of C.M. Wharf
Date of transfer	Not transferred
Cost in 1898 including gravel bunker, warehouse and approach	$9,395.15
Paid for by	U.S.Engineer Department
Type of construction	Wooden
Materials of const.	Wood
Type of cement	-
Depth of water-datum	22-30 ft at face of wharf, M.L.L.W.
Mean range of tide	5.2 ft
Davits installed	No.-Chain block hoists for 3 mine yawls in boat house.
Type and capacity of derrick	Stiff leg-5 tons. Belongs to the Ordnance Department.
Wharf used by	Artillery, as mine wharf
Condition	Fair to good
Remarks	Elev. of deck-15.0' M.L.L.W.
TRAMWAY	
Location	Wharf to Engineer Shops
Date of transfer	Not transferred
Cost	Not known. Built from old and surplus materials
Length	1000 feet
Gauge	3 feet
Steepest grade	Level
Equipment	1 flat car
Condition.	Fair
Remarks	

SUPERSEDED - See Form 3, corrected to ... 6, 1941

(over)

Recommended that wharf be transferred To Q.M. No longer required for Mine wharf.
6636 (Puget Sound - Worden) 4





MAJOR REPAIR ITEMS TO ENGINEER WHARF

F.Y. 1918.	Replacement of piling and timbers	$ 8,100.00
F.Y. 1920.	Replacement of piling	1,880.45
F.Y. 1921.	Replacement of piling and timbers	6,297.08
F.Y. 1924.	Replacement of piling and timbers	1,200.00
F.Y. 1926.	Repalcement of piling	900.00
F.Y. 1927.	Replacement of timbers in approach	496.00
F.Y. 1932.	Replacement of piling and timbers	7,000.00
F.Y. 1936.	Mine Yawl Boat House Enlargement	1,350.00
F.Y. 1938	Major repair to structure and reshingling roof of Leading Room -	9,185.00

U. S. ENGINEER C... CE
NORTH PACIFIC DIVISION
MAR 16 1938
PORTLAND, OREGON

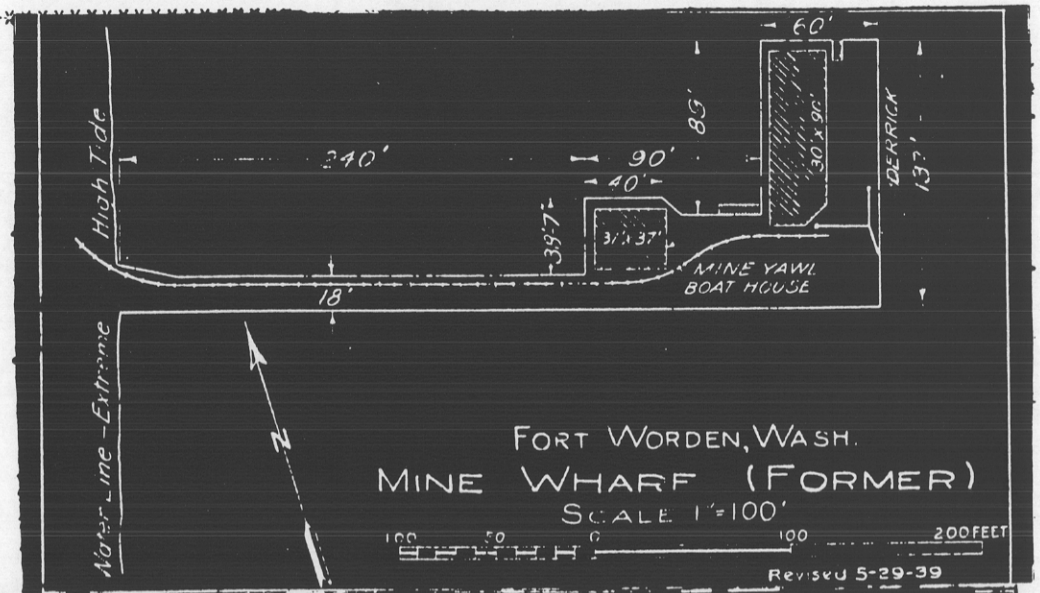
HARBOR DEFENSES OF PUGET SOUND.
FORT WORDEN, WASHINGTON.
STRUCTURE: WHARF AND TRAMWAY.

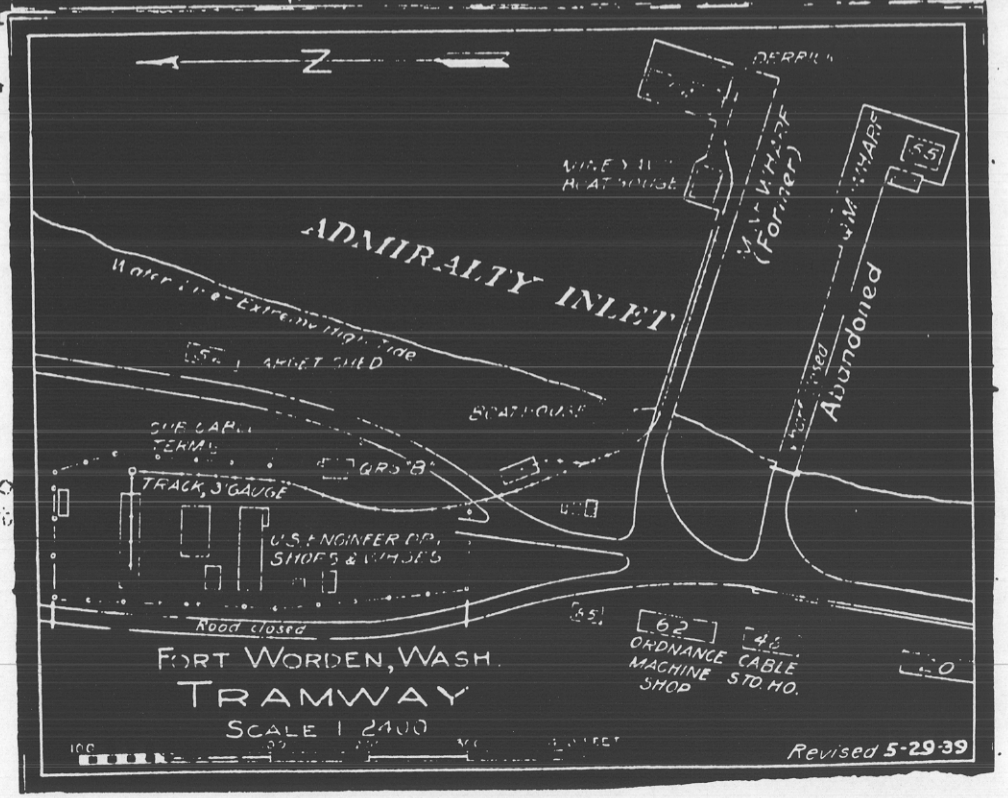
REPORT OF COMPLETED WORKS * SEACOAST FORTIFICATIONS.
(Wharf and Tramway)
Form 3. Corrected to June 6, 1939.

WHARF	
Location	1400 ft, N.E. of HD Hq. and 85 ft. N. of abandoned Q.M. wharf
Date of transfer	June 6, 1939-To Q.M. Dept.
Cost to that date	$36,738.27
Paid for by	Engineer Dept.
Type of construction	Wooden
Materials of construction	Wood
Concrete cement	-
Depth of water-datum	22-30 ft. at face of wharf M.L.L.W.
Mean range of tide	5.2 ft.
Davits installed	None-chain block hoist for 3 mine yawls in boat house
Type and Cap. of derrick	Stiff leg-5tons. Ordnance property
Wharf used by	Coast Artillery, as post wharf
Condition	Good
Remarks	Elev. of deck, 15 ft. M.L.L.W.
TRAMWAY	
Location	Wharf to Engineer Shops
Date of transfer	June 6, 1939-To Q.M. Dept.
Cost	Not known-Built from old and surplus materials
Length	1000 ft.
Gauge	3 ft.
Steepest grade	Level
Equipment	1 flat car. Mine property
Condition	Poor

Note: Wharf constructed by Engineer Dept. 1898, at original co
of $9,395.15. Wharf and Tramway transferred to Q.M. Dept
on June 6, 1939 by Authority 5th Ind., AGO, 5/5/39
(AG 600.5, Fort Worden, 3/24/39. Misc.-D)

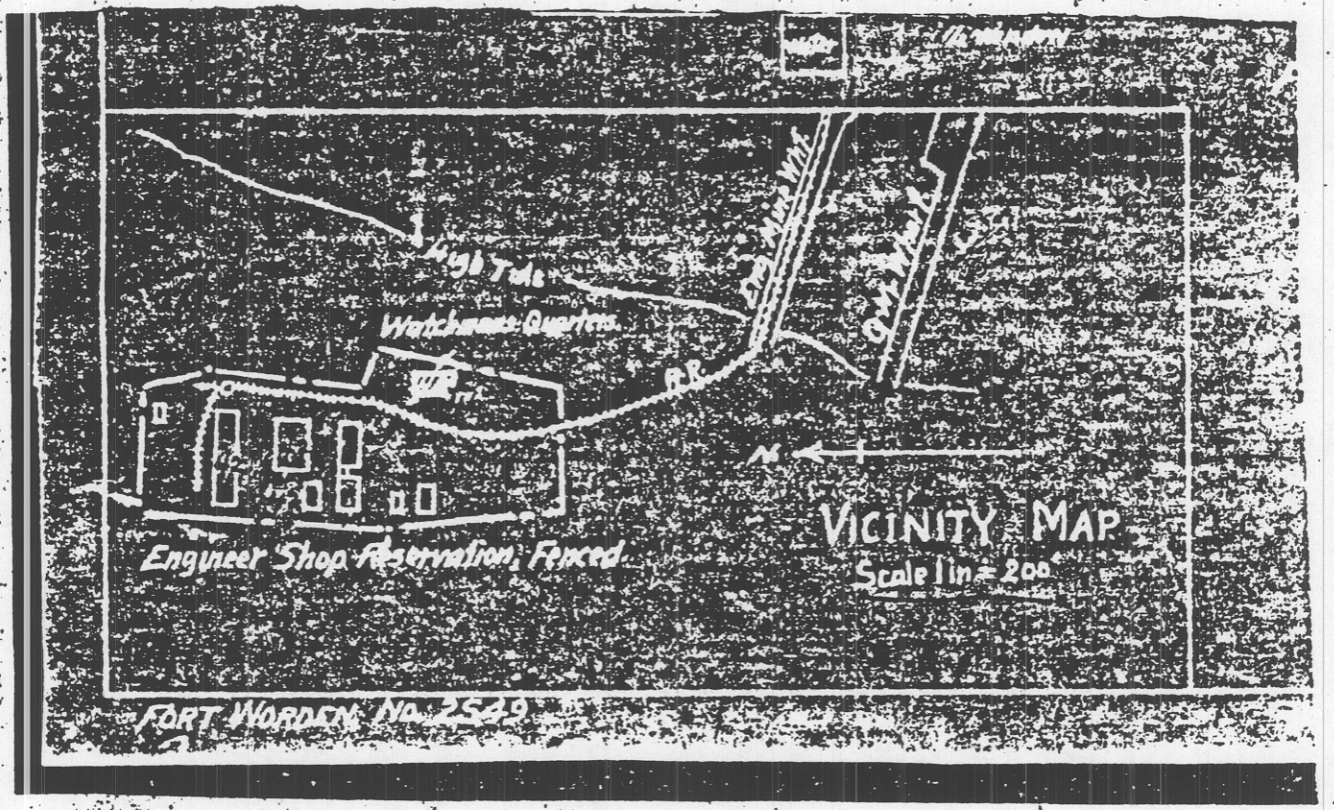
These features are discontinued as Engineer works.





DECLASSIFIED PER EXECUTIVE ORDER 12356, SECTION 3.5, NSD
By RB/MS NARA, Date 10/11/94

FORT WORDEN, WASH. ENGINEER DEPARTMENT.
REC'D APR 8 1925

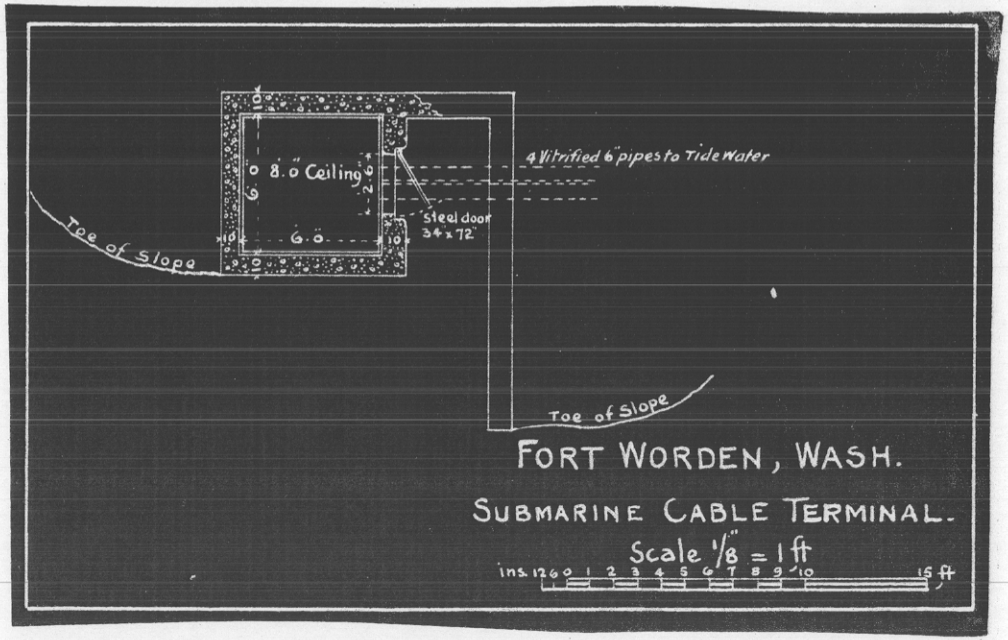


REPORT OF COMPLETED WORKS. SEACOAST FORTIFICATIONS.
(Fire Control or Torpedo Structures)

Form 2. Corrected to September 1932.

HARBOR DEFENSES OF PUGET SOUND.
FORT WORDEN WASHINGTON
STRUCTURE SUBMARINE CABLE TERMINAL.

Location	:Near shore line, 600 feet north of approach to Post wharf	:For cable hut give S.C type	: Type "C"
Date of transfer	:	:	:
Cost to that date	:$695.80	:Remarks;	:Built by Engineer Department for Signal Corps.
Type of construction	:	:	:
(a)Roof	:Concrete	:	:
(b)Remainder of building	:Concrete	:	:
How concealed	:By sand fill	:	:
How protected	:Partially by sand fill	:	:
Height above concealment	:One foot.	:	:
Height above protection	:One foot	:	:
Source of electric current	:Not wired	:	:
How heated	:No heat	:	:
Connected to water mains	:No	:	:
Connected to sewer	:No	:	:
Permament or temporary installation	:Permament	:	:
Present condition	:Excellent	:	:
Reference of site	:Floor 10.44 ft.M.L.W.	:	:



REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS

Form 6. Corrected to March, 1923.

COAST DEFENSES OF PUGET SOUND
FORT LORDEN
ENGINEER DEPARTMENT STRUCTURES

On this sheet list any existing structures of a permanent or semi-permanent nature used wholly or in part by the Engineer Department, such as wharves, storehouses, quarters, office buildings, railroads and railroad equipment, giving for each a short description, dimensions, materials of construction, present use, location, etc., and cost if known.

oal Name	Permanent Semi-per.	Description
Warehouse "A"	S.P	1 story, wood, 22'x100', built prior to 1897 and acquired with the military reservation
Warehouse "B"	S.P.	1 story, wood, 22'x100'. Built prior to 1897 and acquired with the military reservation Repaired in 1921 at cost of $730.06.
Engineer wharf	P.	Main wharf 60'x150', with approach 360'x18' (see plan) timber with creosoted piling. Built in 1898, including gravel bunker and warehouse for $9,395.15. Used jointly with Artillery. Repaired in 1918 at cost of $7,600.00. Repaired in 1920 at cost of $8,064.54.
Railroad	P.	1500' of track laid with 30 lb. rail, 3' gauge. Connecting Engineer wharf with Engineer shops. (See plan of mine structures and tramway). Used jointly with artillery. No equipment.
Garage	P.	1 story, wood frame, covered with galvanized iron, concrete floor, 18'x24'. Built in 1923 at cost of $500.00.

Superseded
by Sheet Dated
Jan 25, 1929

REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS.

COAST DEFENSES OF PUGET SOUND
FORT WORDEN
ENGINEER DEPARTMENT STRUCTURES

Form 6 Corrected to March, 1924.

On this sheet list any existing structures of a permanent or semi-permanent nature used wholly or in part by the Engineer Department, such as wharves, storehouses, quarters, office buildings, railroads and railroad equipment, giving for each a short description, dimensions, materials of construction, present use, location, etc., and cost of each, if known.

Local name	Permanent Semi-per.	Description.
Warehouse "A"	P.	1 story, wood frame, covered with galvanized iron; concrete footings and floor; 30' x 55'. Built in 1924 at cost of $1800.00.
Warehouse "B"	S.P.	1 story, wood, 22' x 100'. Built prior to 1897 and acquired with the military reservation. Repaired in 1921 at cost of $730.06.
Engineer wharf	P.	Main wharf 60' x 150', with approach 360' x 18' (see plan) timber with creosoted piling. Built in 1898, including gravel bunker and warehouse for $9,395.15. Used jointly with Artillery. Repaired in 1918 at cost of $7,600.00. Repaired in 1920 at cost of $8,064.54.
Railroad	P.	1500' of track laid with 30 lb. rail, 3' gauge. Connecting Engineer wharf with Engineer shops. (See plan of mine structures and tramway). Used jointly with Artillery. No equipment.
Garage	P.	1 story, wood frame, covered with galvanized iron, concrete floor, 18' x 24'. Built in 1923 at cost of $500.00

Superseded -
See sheet corrected to
Jan 1927

REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS

HARBOR DEFENSES OF PUGET SOUND
FORT WORDEN, WASHINGTON.
ENGINEER DEPARTMENT STRUCTURES

Form 6. Corrected to May 25, 1926.

On this sheet list any existing structures of a permanent or semi-permanent nature used wholly or in part by the Engineer Department, such as wharves, storehouses, quarters, office buildings, railroads and railroad equipment, giving for each a short description, dimensions, materials of construction, present use, location, etc., and cost if known.

Local name	Permanent Semi-Perm.	Description
Warehouse "B"	P.	1 story, wood, 22' x 100'. Built prior to 1897 and acquired with the military reservation. Repaired in 1921 at cost of $730.06.
Warehouse "C"	P.	1 story and loft, wood frame covered with galv. iron, 20' x 30'. Built in 1912 of old materials and cost $211.00.
Paint & Oil House	P.	1 story, wood frame covered with galv. iron, concrete floor, 12' x 20'. Built in 1918 and cost $229.00.
Garage	P.	1 story, wood frame, covered with galvanized iron, concrete floor, 18' x 24'. Built in 1923 at cost of $500.00
Engineer Wharf	P.	Main Wharf 60' x 150', with approach 360' x 18', (see plan of Mine Structures and Tramway, Form 3) timber with creosoted piling. Built in 1898, including gravel bunker and warehouse for $9,395.15. Used jointly with Artillery. Repaired in 1918 at cost of $7,600.00. Repaired in 1920 at cost of $8,064.54. Repaired in 1924 at cost of $1,200.00. Repaired in 1925 at cost of $900.00.
Railroad	P.	1000' of track laid with 30 lb. rail, 3' guage, connecting Engineer Wharf with Engineer Shops. (See plan of Mine Structures and Tramway, Form 3). Used jointly with Artillery. No equipment.

Dec 15, 1927

See Report dated Oct. 31, 19

REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS

HARBOR DEFENSES OF PUGET SOUND
FORT WORDEN, WASHINGTON
ENGINEER DEPARTMENT STRUCTURES

Form 6 Corrected to January 15, 1927

On this sheet list any existing structures of a permanent or semi-permanent nature used wholly or in part by the Engineer Department, such as wharves, storehouses, quarters, office buildings, railroads and railroad equipment, giving for each a short description, dimensions, materials of construction, present use, location etc., and cost if known.

Local Name	Permanent: Semi-Perm:	Description
Office Building	P	1-1/2 story, wood, 32' x 40' with T 8' x 18'. Lower story 3 rooms and bath, upper story 5 rooms. Built in 1898. Fire proof vault added in 1921. Repaired in F.Y. 1920 at cost of $320.00. Repaired in F.Y. 1923 at cost of $500.00.
Quarters, "A" (Associate Engineer in Charge)	P	1-1/2 story, wood, 32' x 40', with T 8' x 16'. Lower story 4 rooms and bath, upper story 5 rooms. Built in 1898. Repaired in F.Y. 1920 at cost of $660.00. Repaired in F.Y. 1923 at cost of $1000.00
Quarters, "B" (Watchman)	P	1 story, wood, 24' x 28'. 4 rooms and bath. Built in F.Y. 1925 at cost of $1200.00.
Quarters, "C" (Assistant Engineer)	P	1-1/2 story, wood, 26' x 26'. Lower story 3 rooms and bath, upper story 2 rooms. Repaired in F.Y. 1924 at cost of $400.00.
Quarters, "D"	P	1 story, wood, 20' x 30' with L 10' x 12'. 4 rooms and bath. Occupied temporarily by Artillery.
rehouse (Hill)	P	1 story, wood. 24' x 83' with blacksmith shop annex 12' x 20'.
Paintshop and Blue-print (Hill)	P	1 story, wood, 20' x 24' with 3 rooms. Repaired in F.Y. 1926 at cost of $200.00.
Storehouse (Hill)	S. P.	1 story, wood, concrete floor, 20' x 30'.
Carpenter and Black-smith Shop	P	1 story, wood, galv. iron roof, 22' x 90'. 4 rooms with power and lights. Built in 1912 of old material and cost $1233.00. Repaired in F.Y. 1924 at cost of $200.00. Remodeled in F.Y. 1926 at cost of $410.00
Warehouse "A"	P	1 story, wood frame, covered with galvanized iron, concrete footings and floor, 30' x 55'. Built in F.Y. 1924 at cost of $1800.00.

Supersedes - see sheet corrected to Oct 31, 1930

REPORT OF COMPLETED WORKS SEACOAST FORTIFICATIONS.

Form 6 Corrected to October 31, 1930.

HARBOR DEFENSES OF PUGET SOUND
FORT WORDEN WASHINGTON
ENGINEER DEPARTMENT STRUCTURES

On this sheet list any existing structures of a permanent or semi-permanent nature used wholly or in part by the Engineer Department, such as wharves, storehouses, quarters, office buildings, railroads and railroad equipment, giving for eacha short description, dimensions, materials of construction, present use, location, etc., and cost, if known.

Local Name	Permanent: Semi-Perm:	Description
Garage "A"	P	1 story, wood frame covered with galv. iron, concrete floor, 18'x 24'. Built in F.Y. 1923 at cost of $500.00. Engineer truck.
Garage "B"	S. P.	1 story, wood frame covered with galv. iron, 14'x 18'. Ass. Engr. private auto.
Carpenter and Blacksmith shop	P	1 story, wood, galv. iron roof, 22'x 90'. 4 rooms with power and lights. Built in 1912 of old material and cost 1235.00. Repaired as follows: F.Y. 1924 $200.00, F.Y. 1926 $410.00, F.Y. 1928 $58.00. Engineer shops.
Paint and Oil House	P	1 story, wood frame covered with galv. iron, concrete floor, 12'x 20'. Built in 1918 and cost $229.00. Engineer paints and oils.
Paint Shop and Blueprint	P	1 story, wood, 20'x 24' with 2 rooms. Repaired as follows: F.Y. 1926 $200.00. Engineer blueprints and storage.
→ Changed to Toolhouse, C.E. 660 B (Puget Sound) 53/1, Dec. 31, 1932.		
Engineer Mine Wharf.	P	Main wharf 60'x 150' with approach 330'x 18', timber on creosoted piling. (See plan of mine structures and tramway Form 3) Built in 1898 including gravel bunker (since removed) and warehouse for $9395.15. Repaired as follows: F.Y. 1918 $8100.00, F.Y. 1920 $1860.45, F.Y. 1921 $6297.08, F.Y. 1924 $1200.00, F.Y. 1926 $900.00, F.Y. 1927 $496.00. Used as mine wharf by Artillery.
Railroad	P	1000' of track laid with 30 lb. rail, 3' gauge, connecting Engineer wharf with Engineer shops. (See plan of mine structures and tramway, Form 3) Used jointly with Artillery. Equipment - 1 flat car.

Superseded - See report corrected to October 1932

DECLASSIFIED PER EXECUTIVE ORDER 12356, SECTION 3.3, NND PROJECT
NUMBER NND735036, BY RB/MB, DATE 8-4-94

HEADQUARTERS NINTH CORPS AREA
Office of the Engineer
660.2-PS Presidio of San Francisco, California

February 3, 1932.

Subject: Report of Completed Works.

To: The Chief of Engineers, U.S.Army,
Washington, D. C.

1. Report is submitted that under authority granted by the Secretary of War in 5th Indorsement, December 17, 1931, on AG 602.3 Ft. Worden (11-12-31) Subject "Disposition of Engineer Warehouse "D" at Fort Worden", (C. of E. 660K (Puget Sound)114), the building in question was formally transferred to the Quartermaster Corps on January 22, 1932.

2. Warehouse "D" is listed on sheet 1 of Form 6, Report of Completed Works, Fort Worden, Harbor Defenses of Puget Sound, corrected to October 31, 1930. It is requested that suitable notation be made on the sheet referred to indicating the transfer of the building to Quartermaster custody.

3. The Division Engineer, Pacific Division has been notified of the transfer and requested to correct the copy of the Report of Completed Works on file in that office.

H. A. FINCH,
Lt. Colonel, Corps of Engineers,
Acting Engineer, 9th Corps Area.

Copy of C. of E. 660K(Puget Sound)116

REPORT OF COMPLETED WORKS. SEACOAST FORTIFICATIONS. HARBOR DEFENSES OF PUGET SOUND
FORT WORDEN. WASHINGTON.
Form 6. Corrected to October, 1932. ENGINEER DEPARTMENT STRUCTURES.

On this sheet list any existing structures of a permanent or semi-permanent nature used wholly or in part by the Engineer Department, such as wharves, storehouses, quarters, office buildings, railroads and railroad equipment, giving for each a short description, dimensions, materials of construction, present use, locations, etc., and cost, if known.

Local Name	Permament Semi-perm.	Description.
ffice Building	P	1½ story wood, 32'x 40' with T 8'x 18'. Lower story 3 rooms with bath, upper story 5 rooms. Built in 1898. Fire proof vault built in 1921. Repaired as follws: F.Y. 1920 $320.00, F.Y.1923 $500.00, painting F.Y.1929 $200.00. Used as Eng. office.
Quarters "A"	P	1½ story, wood, 32'x 40', with T 8'x 16'. Lower story 4 rooms and bath, upper story 4 rooms. Built in 1898. Repaired as follows: F.Y.1920 $660.00, F.Y.1923 $1000.00, painting F.Y.1929 $225.00. Occupied by Associate Engineer.
Quarters "B"	P	1 story wood, 24'x 28'. 4 rooms and bath. Built in F.Y.1925 at cost of $1200.00 Wood shed constructed F.Y.1927 cost $79.00. Watchman's quarters, occupied temporarily by Artillery.
Quarters "C"	P	1½ story wood, 26'x 26'. Lower story 3 rooms and bath, upper story 2 rooms. Repaired as follows: F.Y.1924 $400.00. Occupied by Artillery.
Quarters "D"	P	1 story wood, 20'x 30' with L 10'x 12'. 4 rooms and bath. Occupied by Artillery.
Warehouse "A"	P	1 story, wood frame covered with galv.iron, concrete footings and floor, 30'x 55'. Built in 1924 at cost of $1200.00. Engineer storage.
Warehouse "B"	P	1 story, wood, galv.iron roof, 22'x 100'. Built prior to 1897. Repaired as follows: F.Y.1921 $730.00. Engineer storage.
Warehouse "C"	P	1 story and loft, wood frame covered with galv.iron, 20'x 30'. Built in 1912 of old materials and cost $211.00. Engineer storage.
Carpenter & Blacksmith Shop.	P	1 story, wood, galv.iron roof, 22'x 90'. 4 rooms with power & lights. Built in 1912 of old material and cost $1233.00. Repaired as follows: F.Y.1924 $200.00, F.Y. 1926 $410.00, F.Y.1928 $58.00. Engineer shops.

C.off. 660K (Puget Sd.) 123.

Superseded - See Report corrected to June 1, 1933

OCT 17

REPORT OF COMPLETED WORKS. SEACOAST FORTIFICATIONS. HARBOR DEFENSES OF PUGET SOUND.
FORT WORDEN. WASHINGTON.
Form 6. Corrected to October, 1932. ENGINEER DEPARTMENT STRUCTURES.

On this sheet list any existing structures of a permament or semi-permament nature used wholly or in part by the Engineer Department,such as wharves,storehouses,quarters,office buildings,railroad and railroad equipment,giving for each a short description,dimensions,materials of construction,present use,location,etc.,and cost,if known.

Local name.	Permament Semi-perm.	Description.
Toolhouse	P	1 story,wood,20'x 24'. Repaired as follows: F.Y.1926 $200.00. Engineer tools amd storage.
Paint and Oilhouse	P	1 story,wood frame covered with galv.iron,concrete floor,12'x 20'. Built in 1918 and cost $229.00. Engineer xpaints and oils.
Garage "A"	P	1 story,wood frame covered with galv.iron,concrete floor,18'x 24'. Built in F.Y. 1923 at cost of $500.00. Engineer truck.
Garage "B"	S.P	1 story,wood frame covered with galv.iron,14'x 18'. Assoc.Engr.private auto.
Mine-Engineer Wharf	P	Main wharf is 150'x 48' with L 89'x 60',face of wharf 137',timber on creosoted piling. (See plan of mine structures and tramway Form 3) Built in 1898 including gravel bunker (since removed) and warehouse for $9395.15. Repaired as follows: F.Y.1918 $8100.00, F.y.1920 $1880.45, F.Y.1921 $6297.08, F.Y.1924 $1200.00, F.Y. 1926.00 $900.00, F.Y.1927 $496.00, F.Y.1932 $7000.00. Used as mine wharf by Artillery.
Railroad	P	1000' of track laid with 30 lb. rail 3' gauge. Connecting Mine-engineer wharf with Engineer shops. (See plan of mine structures and tramway Form 3) Used jointly with Artillery. Equipment - 1 flat car.

NOTE: All structures are located on Engineer reservation adjacent to Mine-engineer wharf except office building, quarters "A",quarters "D",toolhouse and garage "B" which are located on hill near battery Randol and quarters "C" in rear of battery Stoddard.

Superseded - See Sheet corrected to June 1, 1933

REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS.

HARBOR DEFENSES OF PUGET SOUND
FORT WORDEN, WASHINGTON.
ENGINEER DEPARTMENT STRUCTURES.

Form 6 Corrected to October 31, 1930.

On this sheet list any existing structures of a permament or semi-permament nature used wholly or in part by the Engineer Department, such as wharves, storehouses, quarters, office buildings, railroads and railroad equipment, giving for each a short description, dimensions, materials of construction, present use, locations, etc., and cost, if known.

Local name	Permament Semi-Perm	Description.
Office Bulding	P	1½ story, wood, 32'x 40' with T 8'x 18'. Lower story 3 rooms with bath, upper story 5 rooms. Bult in 1898. Fire proof vault added in 1921. Repaired as follows: F.Y. 1920 $320.oo, F.Y.1923 $500.oo, painting F.Y.1929 $200.oo. Used as Eng. office.
Quarters "A"	P	1½ story, wood, 32'x 40', with T 8'x 16'. Lower story 4 rooms and bath, upper story 4 rooms. Built in 1898. Repaired as follows: F.Y.1920 $660.oo, F.Y.1923 $1000.oo, Painting F.Y.1929 $225.oo. Occupied by Associate Engineer in charge.
Quarters "B"	P	1 story, wood, 24'x 28'. 4 rooms and bath. Built in F.Y.1925 at cost of $1200.oo New woodshed constructed F.Y.1927 cost $79.oo. Watchman's quarters, occupied temporarily by Artillery.
Quarters "C"	P	1½ story, wood, 26'x 26'. Lower story 3 rooms and bath, upper story 2 rooms. Repaired as follows: F.Y.1924 $400.oo. Occupied by Engineer employee. ✓
Quarters "D"	P P	1 story, wood, 20'x 30' with L 10'x 12'. 4 rooms and bath. Occupied by Artillery. ✓
Warehouse "A"	P	1 story, wood frame covered with gal. iron, concrete footings and floor, 30'x 55'. Built in F.Y.1924 at cost of $1200.00. Engineer storage.
Warehouse "B"	P	1 story, wood, 22'x 100', G.I. roof. Built prior to ~~190~~ 1897. Repaired as follows: F.Y.1921 $730.00. Engineer storage.
Warehouse "C"	P	1 story and loft, wood frame covered with galv. iron, 20'x 30'. Built in 1912 of old materials and cost $211.oo. Engineer storage
* Warehouse "D"	P	1 story, wood, 24'x 73' with L 12'x 20'. Engineer storage.
Warehouse "E"	S. P.	1 story, wood, concrete floor, 20'x 30'. Not occupied at present.

These two buildings transferred to Q.M.C., C.of E. 660 K (Puget Sd.) 123, Dec. 29, 1932.

(Superseded - new report corrected to Oct. 1932)

For either sale or salvage, C.E. 660 B (Puget Sd.) 53/1, Dec. 31. 1932.

*, C of E 660K (Puget Sound) 114

Nov-1931 TRANSFER TO Q-M. Corps

A.G. 602.3 Ft Worden (11-12-31) Misc-D- on C of E 660K (Puget Sound) 115 116

Engr. 9th Corps ... 1930

REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS

HARBOR DEFENSES OF PUGET SOUND,
FORT WORDEN, WASH.
ENGINEER DEPARTMENT STRUCTURES.

Form 6. Corrected to March 1, 1936,

On this sheet list any existing structures of a permanent or semi-permanent nature used wholly or in part by the Engineer Department, such as wharves, storehouses, quarters, office buildings, railroads and railroad equipment, giving for each a short description, dimensions, materials of construction, present use, location etc., and cost, if known.

Local Name	Permanent Semi-perm.	Description
Office Building	P	1½ story, wood, 32' x 40' with T 8' x 18'; lower story 3 rooms with bath, upper story 5 rooms. Built in 1898. Fire proof vault built in 1921. Repaired as follows: FY 1920, $320.00; FY 1923, $500.00; painting FY 1929, $200.00. Used as Engr. Office.
Quarters "A"	P	1½ story, wood, 32' x 40' with T 8' x 16'. Lower story 4 rooms and bath, upper story 4 rooms. Built in 1898. Repaired as follows: FY 1920, $660.00; FY 1923, $1000.00; painting FY 1929, $225.00; half basement constructed FY 1934, $600.00; Hot air furnace installed FY 1935, $420.00. Occupied by Engineer Civilian Employee.
Quarters "B"	P	1 story, wood, 24' x 28'. 4 rooms and bath. Built in FY 1925 at cost of $1200.00. Wood shed constructed in FY 1927 at cost of $79.00. Watchman's quarters, temporarily occupied by Artillery.
Warehouse "A"	P	1 story, wood frame covered with galv. iron, concrete footings and floor, 30' x 55'. Built in FY 1924 at cost of $1200.00. Engineer storage.
Warehouse "B"	P	1 story, wood, galv. iron roof, 22' x 100'. Built prior to 1897. Repaired as follows: FY 1921, $730.00. Engineer storage.
Warehouse "C"	P	1 story and loft, wood frame covered with galv. iron, 20' x 30'. Built in 1912 of old materials and cost of $211.00. Engineer storage.
Carpenter & Blacksmith Shop	P	1 story, wood, galv. iron roof, 22' x 90'. 4 rooms with power & lights. Built in 1912 of old materials and cost of $1233.00. Repaired as follows: FY 1924, $200.00; FY 1926, $410.00; FY 1928, $58.00. Engineer shops.

SUPERSEDED - See Form 6, corrected to Feb. 16, 1940

REPORT OF COMPLETED WORKS-SEACOAST FORTIFICATIONS

HARBOR DEFENSES OF PUGET SOUND,
FORT WORDEN, WASH.
ENGINEER DEPARTMENT STRUCTURES.

Form 6. Corrected to March 1936.

Local Name	Permanent : Semi-perm.	Description
Toolhouse(Hill)	P	1 story, wood, 20' x 24'. Repaired as follows: FY 1926, $200.00. Engineer tools and storage.
Toolhouse	P	1 story, wood, 14' x 16', covered with galv. iron [redacted], wood floor. Built in FY 1925; cost unknown. Engineer tools and storage.
Paint and Oilhouse	P	1 story, wood frame, covered with galv. iron, 12' x 32'. Original building, 12' x 20' built in FY 1918 with concrete floor at cost of $229.00. Extension with wood floor and concrete footings built in 1934 at cost of $50.00. Engr. paints & oils.
Garage "A"	P	1 story, wood frame covered with galv. iron, concrete floor, 18' x 24'. Built in FY 1925 at cost of $500.00. Engineer truck.
Garage "B"	S.P.	1 story, wood frame covered with galv. iron, 14' x 18'. Engineer Civilian Employee.
Mine-Engineer Wharf *	P	Main wharf is 150' x 48', except for the addition of an 8' x 40' enlargement adjacent to boathouse; and with L 89' x 60'; and approach 240' x 18'.(Face of wharf 137') Timber on creosoted piling. (See plan of mine structures and tramway, Form3) Built in 1898 including gravel bunker(since removed) and warehouse for $9395.15. Repaired as follows: FY 1918, $8100.00; FY 1920, $1880.45; FY 1921, $6297.08; FY 1924, $1200.00; FY 1926, $900.00; FY 1927, 496.00; FY 1932, $7000.00; FY 1936, $1350.00. Used as mine wharf by artillery.
Railroad	P	1000' of track laid with 30 lb rail, 3' gauge. Connecting Mine-Engineer Wharf with Engineer shops. (See plan of mine structures and tramway, Form 3) Used jointly with Artillery. Equipment - 1 flat car.

NOTE: All structures are located on Engineer Reservation adjacent to Mine-Engineer Wharf, except the following: Toolhouse(Hill), Office building, Quarters "A" and Garage "B", which are located on hill near Battery Randol.

* See 2nd Ind., 4/13/39, 663 G (Puget Sound - Worden) 4;
As wharf constructed & maintained by Corps of Engrs. at Ft. Worden is no longer needed as a mine wharf recommendation is made that it be transferred to the Q.M. Corps for use & maintenance.

SUPERSEDED - See Form 6, corrected to Feb. 16, 1940

REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS

HARBOR DEFENSES OF PUGET SOUND,
FORT WORDEN, WASH.
ENGINEER DEPARTMENT STRUCTURES.

Form 6. Corrected to June 1, 1933.

On this sheet list any existing structures of a permanent or semi-permanent nature used wholly or in part by the Engineer Department, such as wharves, storehouses, quarters, office buildings, railroads and railroad equipment, giving for each a short description, dimensions, materials of construction, present use, locations, etc., and cost, if known.

Local name	Permanent or Semi-perm.	Description
Office Building	P	1½ story, wood, 32' x 40' with T 8' x 18'. Lower story 3 rooms with bath, upper story 5 rooms. Built in 1898. Fire proof vault built in 1921. Repaired as follows: F.Y. 1920, $320.00; F.Y.1923, $500.00; painting F.Y. 1929, $200.00. Used as Eng. Office.
Quarters "A"	P	1½ story, wood, 32' x 40' with T 8' x 16'. Lower story 4 rooms and bath, upper story 4 rooms. Built in 1898. Repaired as follows: F.Y.1920, $660.00; F.Y.1923, $1000.00; painting F.Y.1929, $225.00. Occupied by Associate Engineer.
Quarters "B"	P	1 story wood, 24' x 28'. 4 rooms and bath. Built in F.Y. 1925 at cost of $1,200.00. Wood shed constructed in F.Y.1927 at cost of $79.00. Watchman's quarters occupied temporarily by Artillery.
Warehouse "A"	P	1 story, wood frame covered with galv. iron, concrete footings and floor, 30' x 55'. Built in F.Y. 1924 at cost of $1,200.00. Engineer storage.
Warehouse "B"	P	1 story, wood, galv. iron roof, 22' x 100'. Built prior to 1897. Repaired as follows: F.Y.1921, $730.00. Engineer storage.
Warehouse "C"	P	1 story and loft, wood frame covered with galv. iron, 20' x 30'. Built in 1912 of old materials and cost $211.00. Engineer Storage.
Carpenter & Blacksmith Shop	P	1 story, wood, galv. iron roof, 22' x 90'. 4 rooms with power & lights. Built in 1912 of old material and cost $1,233.00 Repaired as follows: F.Y.1924, $200.00; F.Y. 1926, $410.00; F.Y. 1928, $58.00. Engineer shops.

Supersede - See Form 6, corrected to Mar. 1, 1936

REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS

Form 6. Corrected to June 1,1933.

HARBOR DEFENSES OF PUGET SOUND,
FORT WORDEN, WASH.,
ENGINEER DEPARTMENT STRUCTURES.

Local name	Permanent Semi-perm.	Description
Toolhouse	P	1 story,wood,20' x 24'. Repaired as follows: F.Y.1926,$200.00. Engineer tools and storage.
Paint and Oilhouse	P	1 story,wood frame covered with galv.iron,concrete floor, 12' x 20'. Built in 1918 and cost $229.00. Engineer paints and oils.
Garage "A"	P	1 story,wood frame covered with galv.iron,concrete floor,18' x 24'. Built in F.Y. 1923 at cost of $500.00. Engineer truck.
Garage "B"	S. P.	1 story,wood frame covered with galv. iron, 14' x 18'. Associate Engineer private auto.
Mine-Engineer Wharf	P	Main wharf is 150' x 48' with L 89' x 60', and approach 240' x 18', (face of wharf 137') timber on creosoted piling. (See plan of mine structures and tramway Form 3) Built in 1898 including gravel bunker (since removed) and warehouse for $9,395.15. Repaired as follows:F.Y.1918, $8,100.00; F.Y.1920,$1,880.45; F.Y.1921,$6,297.08; F.Y.1924, $1,200.00, F.Y.1926,$900.00;F.Y.1927,$496.00;F.Y.1932,$7,000.00. Used as mine wharf by Artillery.
Railroad	P	1000' of track laid with 30 lb. rail 3' gauge. Connecting Mine-Engineer Wharf with Engineer Shops. (See plan of mine structures and tramway Form 3) Used Jointly with Artillery. Equipment - 1 flat car.

N O T E : - All structures are located on Engineer Reservation adjacent to Mine Engineer Wharf, except Toolhouse, Office Building,Quarters "A" and Garage "B", which are located on hill near Battery Randol.

Superseded - See Form 6, corrected to Mar 1, 11...

REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS

HARBOR DEFENSES OF PUGET SOUND
FORT WORDEN, WASHINGTON.
ENGINEER DEPARTMENT STRUCTURES

Form 6. Corrected to February 16, 1940.

On this sheet list any existing structure of a permanent or semi-permanent nature used wholly or in part by the Engineer Department, such as wharves, storehouses, quarters, office buildings, railroads and railroads Equip., giving for each a short description, dimensions, materials of construction, present use, location etc., and cost if known.

Local Name	Permanent / Semi-Perm	Description
Office Bldg	P	1½ story, wood, 32'x40' with T 8'x18', lower story 3 room with bath, upper story 5rooms. Built in 1898. Fire proof vault built in 1921. Repaired as follows: FY 1920, $320.00 FY 1923, $500.00; painted FY 1929, $200.00. Used as Engineer Office.
Quarters "A"	P	1½ story, wood, 32'x40" with T 8'x16', lower story 4 rooms and bath, upper story 4 rooms. Built in 1898. Repaired as follows: FY 1920, $600.00; FY 1923, $1000.00; painting FY 1929, $225.00; half basement constructed FY 1934, $600.00; Hot air furnace installed FY 1935, $420.00. Occupied by ENgineer Civilian Employee.
Quarters "B"	P	1 story, wood, 24'x28', 4 rooms and bath. Built in FY 1925 at a cost of $1200.00. Wood shed constructed in FY 1927 at a cost of $79.00. Watchmans quarters, temporarely occupied by Artillery.
Warehouse "A"	P	1 story, wood frame covered with Galv. iron, concrete footings and floor, 30'x55'. Built in FY 1924 at a cost of $1200.00. Engineer storage.
Warehouse "B"	P	1 story, wood, Galv. iron roof, 22'x 100'. Built prior to 1897. Repaired as follows: FY 1921, $730.00. Engineer storage.
Warehouse "C"	P	1 story and loft, wood frame covered with Galv. iron, 20'x 30'. Built in 1912 of old materials and a cost of $211.00. Engineer storage.
Carpenter & Blacksmith Shop	P	1 story, wood, Galv. iron roof, 22'x 90', 4 rooms with power and light. Built in 1912 of old materials and a cost of $1233.00. Repaired as follows: FY 1924, $200.00; FY 1926, $410.00; FY 1928, $58.00. Engineer shops.

REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS

HARBOR DEFENSES OF PUGET SOUND.
FORT WORDEN, WASHINGTON.
ENGINEER DEPARTMENT STRUCTURES

Form 6. Corrected to February 16, 1940.

Local Name	Permanent Semi-Prm.	Description
Toolhouse (Hill)	P	1 story, wood, 20'x 24'. Repaired as follows: FY 1926, $200.00. Engineer tools and storage.
Toolhouse	P	1 story, wood. 14'x 16', covered with Galv. iron, wood floor, Built in FY 1923; cost unknown. Engineer tools and storage.
Paint and Oilhouse	P	1 story, wood frame, covered with Galv. iron, 12'x 32', original building, 12'x20'. Built in FY 1918 with concrete floor at acost of $229.00. Extension with wood floor and concrete footings built in FY 1934 at a cost of $50.00 Engineer paint and oilhouse.
Garage "A"	P	1 story, wood frame covered with Galv. iron, concrete floor, 18'x 24'. Built in FY 1923 at a cost of $500.00. Engineer truck.
Garage "B"	P	1 story, wood frame covered with Galv. iron, 14'x 18', Engineer Civilian Employee.

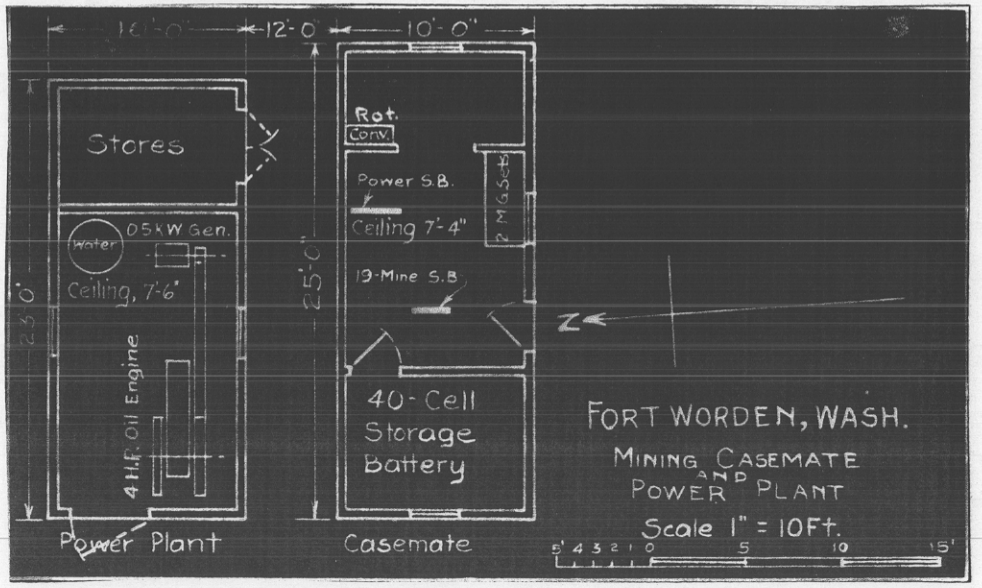
N O T E : All structure are located on Engineer reservation on beach, except the following: Toolhouse (Hill), Office building, Quarters "A" and Garage "B", which are located on hill near Battery Randol.

REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS,
(Fire Control or Torpedo Structures)

HARBOR DEFENSES OF PUGET SOUND,
FORT WORDEN, WASH.,
STRUCTURES. MINING CASEMATE & POWER PLANT.

Form 2. Corrected to September, 1932.

Location	On beach just north of approach to mine wharf	Type of data transmission	Telephone
Date of transfer	Not transferred		
Cost to date	Constructed by troop labor in 1914		
Type of construction			
(a) Roof	Galvanized iron	Remarks	This installation is not shown on Fire Control Diagram and is for experimental purposes only
(b) Remainder of building	Frame		
How concealed	No concealment		
How protected	No protection		
Conspicuous at	7000 yards		
Source of electric currecnt	Local oil engine driven generator, Central Power Plant or Commercial Power		
Kilowatts required for light	0.6		
Type of lighting fixtures	Commercial		
How heated	No heat		
Connected to water mains	No		
Connected to sewer	No		
Permanent or temporary installation	Temporary		
Present condition	Poor		
Reference of site	10.0 Ft. M.L.W.		



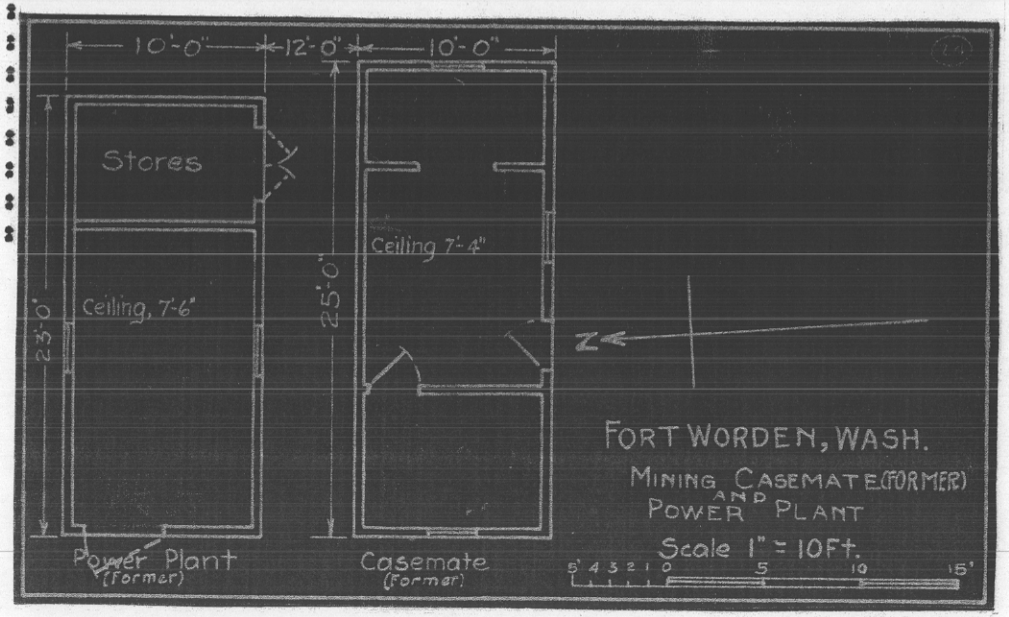
REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS
(Fire Control or Torpedo Structures)

Form 2. Corrected to February 23, 1940.

HARBOR DEFENSES OF PUGET SOUND.
FORT WORDEN, WASHINGTON.
STRUCTURE MINING CASEMATE & POWER PLANT (FORMER)

STRUCTURE:	
Location	On beach just north of approach to East wharf
Date of transfer	Not transferred
Cost to that date	Constructed by troop labor in 1914
Type of construction	
(a) Roof	Galvanized iron
(b) Remainder of building	Frame
How concealed	No concealment
How protected	No protection
Height above concealment	-
Height above protection	-
Conspicuous at	7000 yards
ELECTRIC CURRENT:	
Source of	Commercial power
Kilowatts required (Lights)	0.3
Type of lighting fixtures	Commercial
HEAT:	
How heated	No heat
WATER & SEWER:	
Connected to water mains	No
Connected to sewer	No
Permanent or Tem. Inst'ln	Temporary
Present condition	Fair
REFERENCE:	
Reference of site	10.0 ft. MLW

REMARKS: Vacant



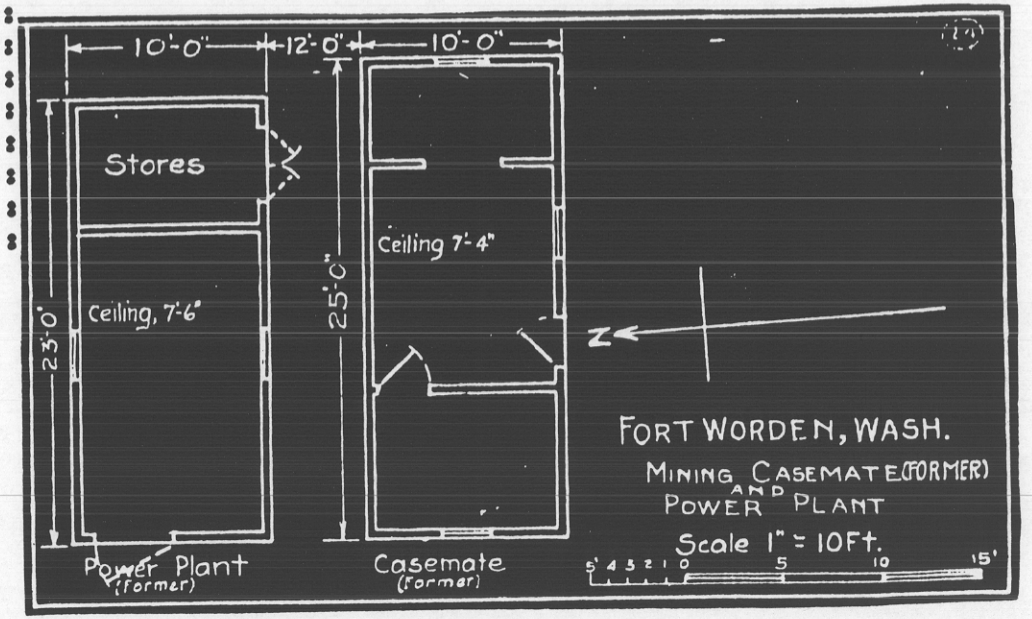
REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS
(Fire Control or Torpedo Structures)

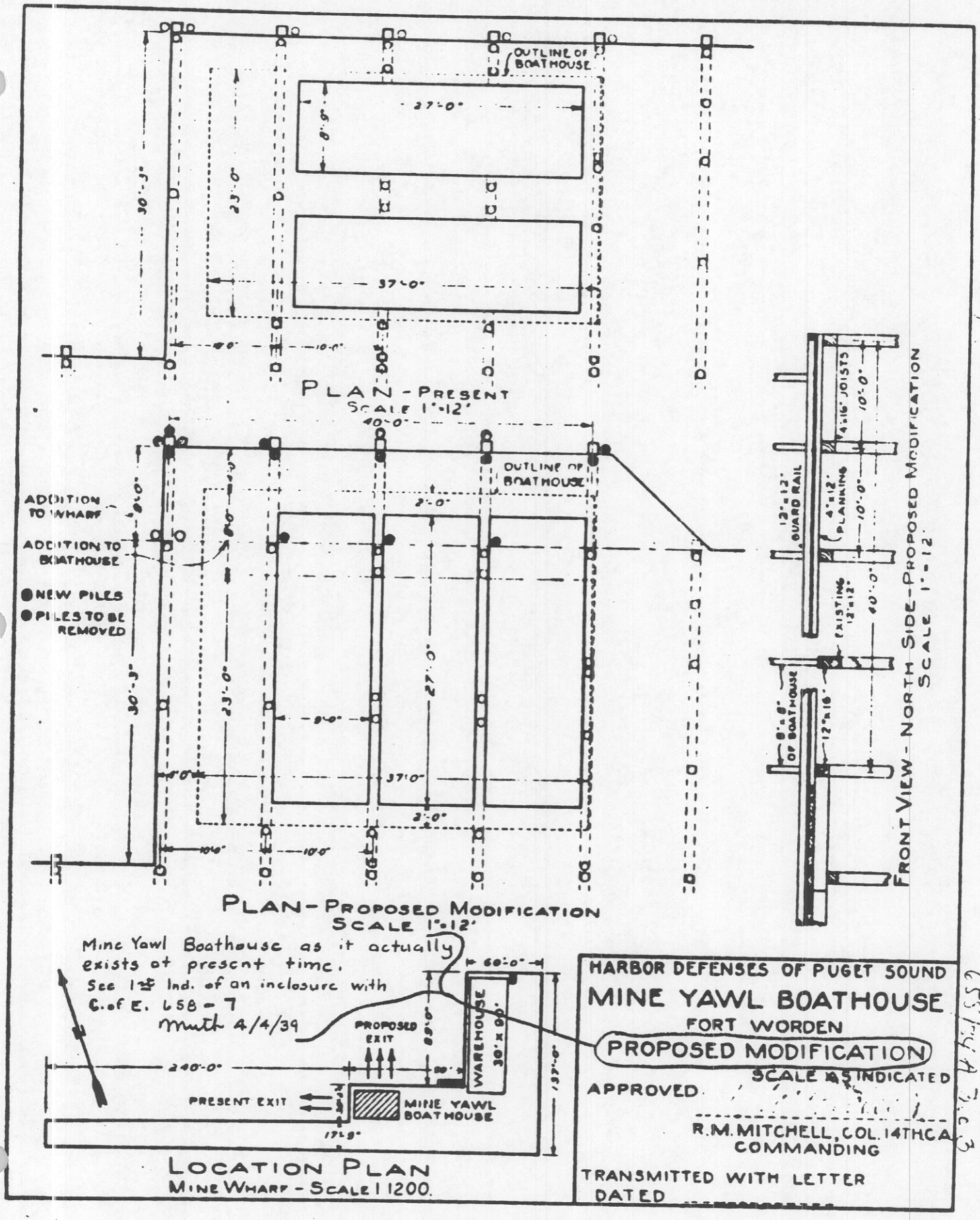
Form 2. Corrected to February 23, 1940.

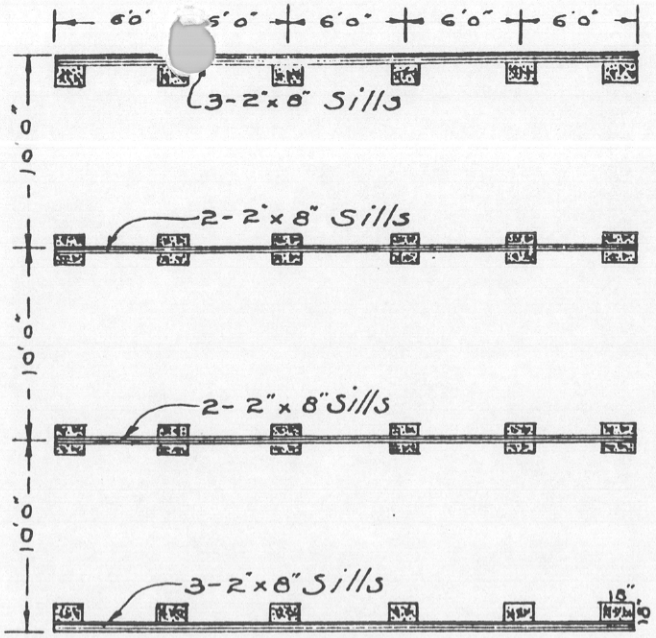
HARBOR DEFENSES OF PUGET SOUND.
FORT WORDEN, WASHINGTON.
STRUCTURE MINING CASEMATE & POWER PLANT (FORMER)

STRUCTURE:	
Location	On beach just north of approach to Post wharf
Date of transfer	Not transferred
Cost to that date	Constructed by troop labor in 1914
Type of construction	
(a) Roof	Galvanized iron
(b) Remainder of building	Frame
How concealed	No concealment
How protected	No protection
Height above concealment	-
Height above protection	-
Conspicuous at	7000 yards
ELECTRIC CURRENT:	
Source of	Commercial power
Kilowatts required (Lights)	0.3
Type of lighting fixtures	Commercial
HEAT:	
How heated	No heat
WATER & SEWER:	
Connected to water mains	No
Connected to sewer	No
Permanent or Tem. Inst'ln	Temporary
Present condition	Fair
REFERENCE:	
Reference of site	10.0 ft. MLW

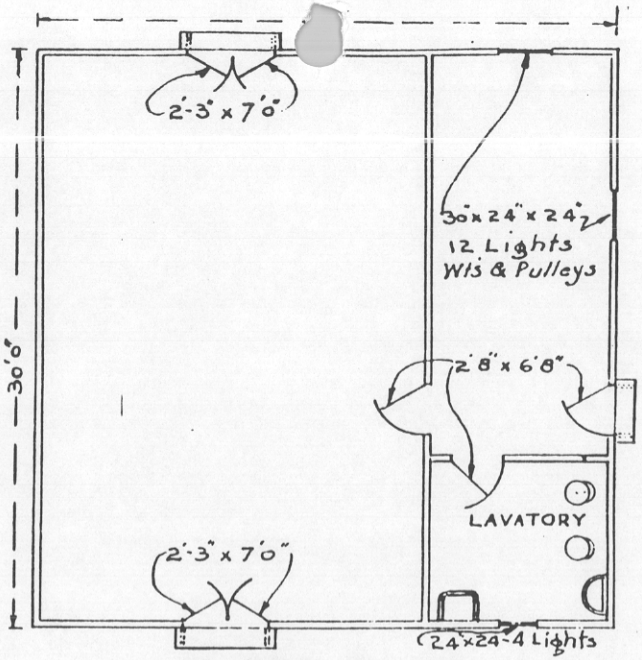
REMARKS: Vacant



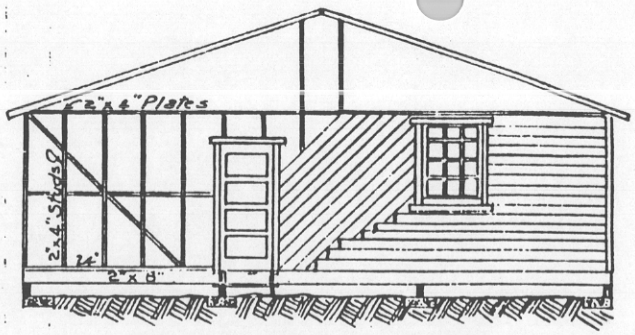

OUTLINE OF BOATHOUSE
27'-0"
8'-9"
30'-3"
23'-0"
37'-0"
10'-0"
PLAN - PRESENT
SCALE 1"=12'
40'-0"
OUTLINE OF BOATHOUSE
ADDITION TO WHARF
ADDITION TO BOATHOUSE
NEW PILES
PILES TO BE REMOVED
2'-0"
27'-0"
9'-0"
37'-0"
2'-0"
10'-0"
PLAN - PROPOSED MODIFICATION
SCALE 1"=12'
4"x16" JOISTS
12"x12" GUARD RAIL
4"x12" PLANKING
EXISTING 12"x12"
8"x8" OF BOATHOUSE
12"x16"
FRONT VIEW - NORTH SIDE - PROPOSED MODIFICATION
SCALE 1"=12'
Mine Yawl Boathouse as it actually exists at present time.
See 1st Ind. of an inclosure with C. of E. 658-7
Muth 4/4/39
60'-0"
PROPOSED EXIT
WAREHOUSE 30'x90'
240'-0"
PRESENT EXIT
MINE YAWL BOATHOUSE
137'-0"
17'-9"
LOCATION PLAN
MINE WHARF - SCALE 1:1200.
HARBOR DEFENSES OF PUGET SOUND
MINE YAWL BOATHOUSE
FORT WORDEN
PROPOSED MODIFICATION
SCALE AS INDICATED
APPROVED
R.M. MITCHELL, COL. 14TH C.A.
COMMANDING
TRANSMITTED WITH LETTER
DATED



PLAN FOUNDATION



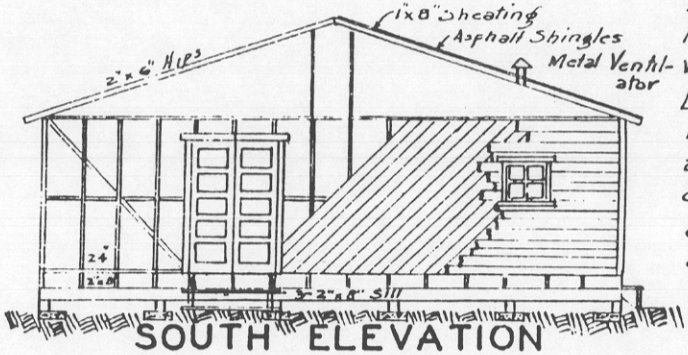
FLOOR PLAN.



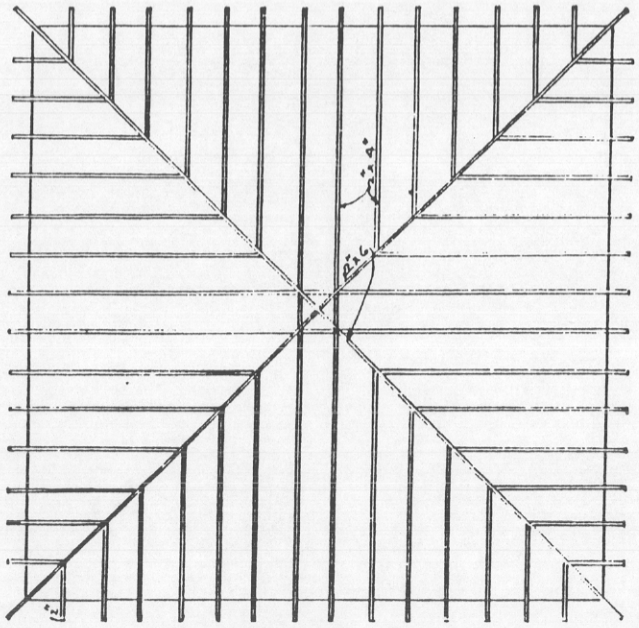
EAST ELEVATION

REMARKS

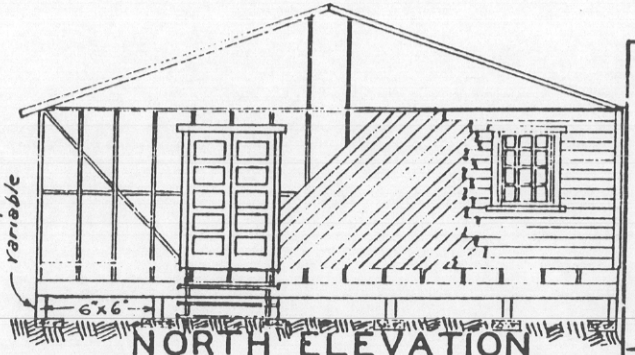
One story building. Wood construction. Building rests on concrete blocks, supporting 6"x6" posts, sills, floor joice, subfloor, fir floor, 2"x4" plates, studs, hipties, hip roof, sheating and asphalt shingles In the Lavatory there is an eight inch metal ventilator in the roof. The sewerage from the Lavatory discharges into a Septic tank near the building. All outside double doors are 5 panel wood, 2'3"x7'0' balance of the doors are 4 panel wood, 2'8"x6'8". The Lavatory window is 24"x24", four lights, 48" above floor. The other windows are two sash, each sash is 30"x24" six lights, weights and pulleys, 30" above floor.



SOUTH ELEVATION



ROOF PLAN



NORTH ELEVATION

OFFICE OF THE QUARTERMASTER
H.D. OF P.S.
FORT WORDEN. WASH.
TARGET SHELTER
SCALE - 1 INCH - 10 FEET.

SUBMITTED APPROVED

BLDG No. 72 TARGET SHELTER

COL. Q.M.C.

Drawn R.J.Y. XXX Aug. 15th 194

600,914 (Puget Sound) CM 64027

REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS
(Fire Control or Torpedo Structures)

Form 2. Corrected to 23 July 1943

SECRET

HARBOR DEFENSES OF PUGET SOUND
FORT WORDEN, WASHINGTON
STRUCTURE AA LATRINE
for AA No. 3 64027

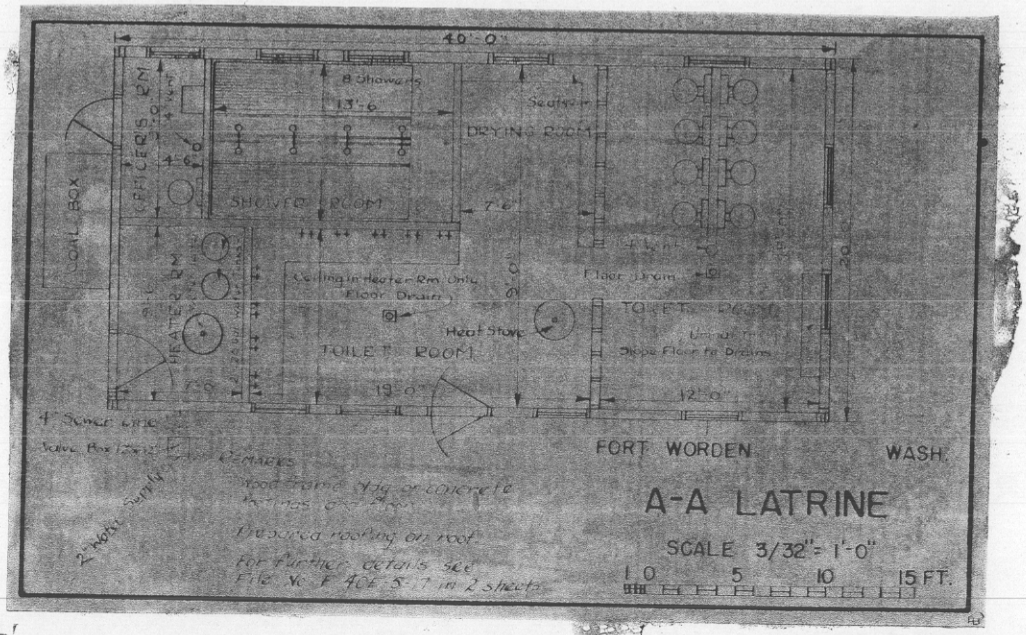
STRUCTURE:	
Location	Fort Worden Hill
Date of transfer	23 July 1943
Cost to that date	$2750
Type of construction	Wood frame
(a) Roof	Prepared roofing
(b) Remainder of bldg.	Conc. footings and floor
How concealed	Among trees
How protected	Not protected
Height above concealment	Under trees
Height above protection	14 feet
Conspicuous at	1000 yds
ELECTRIC CURRENT:	
Source of	Commercial
Kilowatts required	1.0
Type of lighting fixtures	Commercial
HEAT:	
How heated	coal stove
WATER & SEWER:	
Connected to water mains	Yes
Connected to sewer	Yes
Type of latrine	Syphon - sewer
Permanent or temporary inst'ln	Permanent
Present condition	Excellent
REFERENCE:	
Reference of site	Mean Sea Level
Elevation of floor	236.7'

INSTRUMENTS AND EQUIPMENT: None

DATA TRANSMISSION: None

REMARKS: Structure contains toilet room, wash room, shower room, officer's room and heater room. The latter is equipped with a coal-fired hot water heater and 2-120 gallon hot water tanks

NOTE: To serve manning personnel of AA Battery No. 3, Fort Worden, Washington.



Proj Card 10849

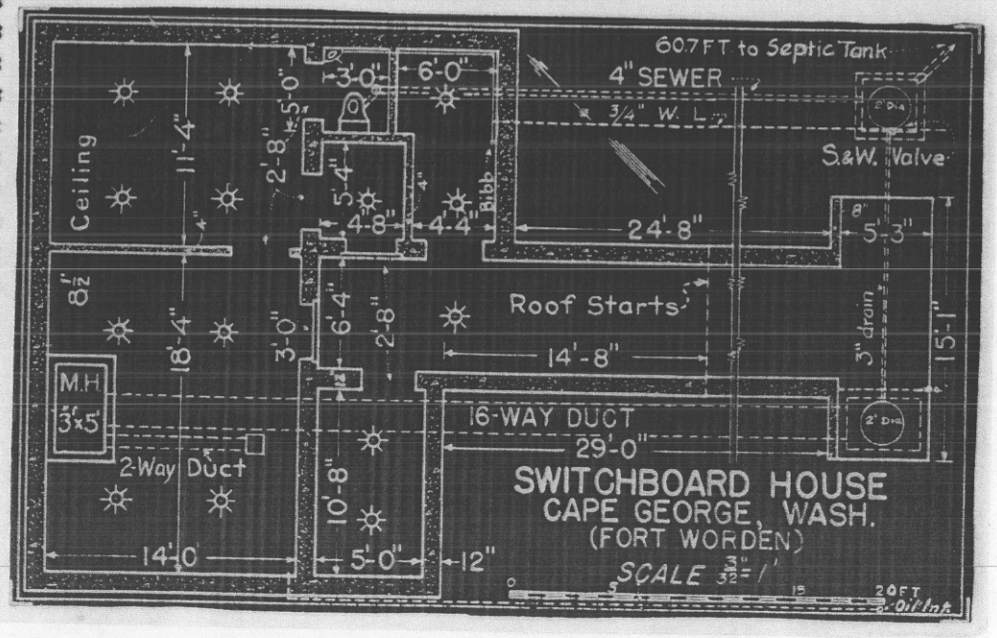
SECRET

REPORT OF COMPLETED WORKS – SEACOAST FORTIFICATIONS
(Fire Control or Torpedo Structures)

HARBOR DEFENSES OF PUGET SOUND.
CAPE GEORGE (FORT WORDEN, WASH.)
STRUCTURE SWITCHBOARD HOUSE.

Form 2. Corrected to January 15, 1940.

STRUCTURE:			
Location	Approx. 400 feet N.N.W. from S.E.Corner of C.G.Mil. Res.	DATA TRANSMISSION: Type of	Telephone (Not installed)
Date of transfer	Jan. 15, 1940		
Cost to that date	$10,100.00		
Type of construction			
(a) Roof	Reinforced Concrete		
(b) Remainder of building	Reinforced Concrete		
How concealed	Earth embankment except Entr.		
How protected	6½ ft. of earth cover plus 1½ ft. of Reinf. Concr. Burster course, plus 2 ft. of earth over burster course		
Height above concealment	None except stacks, 2 feet		
Height above protection	Ditto		
Conspicuous at 3000 yards	From air, estimate		
ELECTRIC CURRENT:			
Source of	Commercial		
Kilowatts required	1.5 (Lighting)		
Type of lighting fixtures	Commercial		
HEAT:			
How heated	Oil stove		
WATER & SEWER:			
Connected to water mains	Yes (Local system)		
Connected to sewer	Yes (Septic Tank)		
Type of latrine	Syphon		
Permanent or Tem. Inst'ln	Permanent		
Present condition	Excellent		
REFERENCE:			
Reference of site	266.3 MLW (Entrance)		



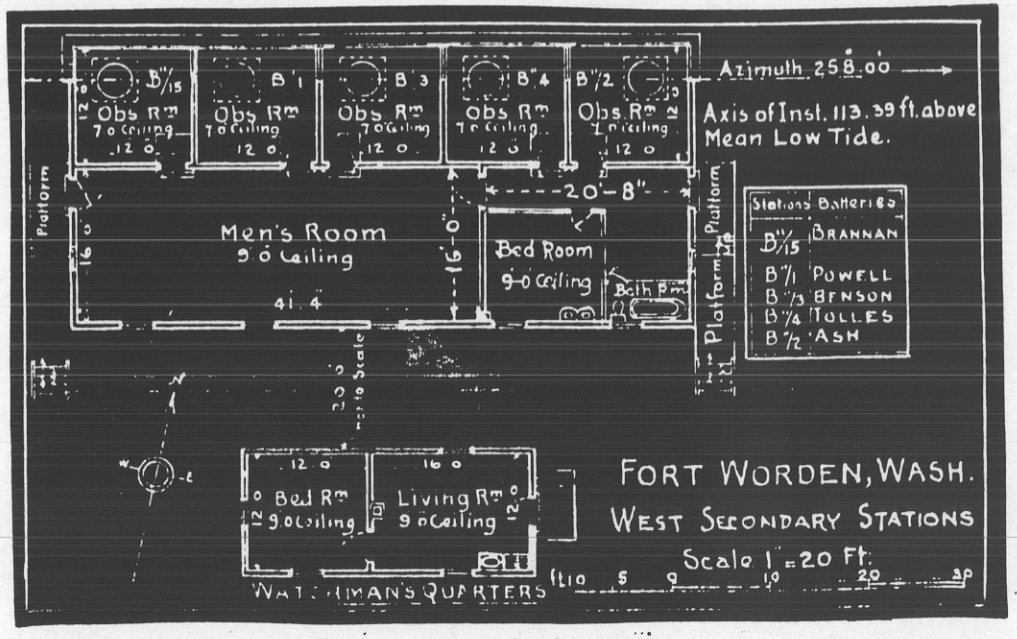
REPORT OF COMPLETED WORKS. SEACOAST FORTIFICATIONS.
(Fire Control or Torpedo Structures.)

Form 2. Corrected to September 1932.

HARBOR DEFENSES OF PUGET SOUND
FORT WORDEN, WASHINGTON.
STRUCTURES. B"15 Brannan. B"1 Powell. B"3 Benson.
B"4 Tolles. B"2 Ash.

Location, Coordinates from C1F1 to B"3	6100 feet west of C_1F_1 N.153.28 W.6095.42	Type of data transmission	Telephone
Date of transfer	June 16, 1908		
Cost to that date	$6030.11		
Type of construction			
a) Roof	Asphalt-felt roofing over shiplap		
(b) Remainder of building	Sewell type (Frame-plaster)		
How concealed	Earth embankment up to sighting slot		
How protected	-do-		
Height above concealment	5 feet		
Height above protection	5 feet		
Conspicious at	5000 yards		
Source of electric current	Power House of S.L.No. 2 & 3.		
Kilowatts required	0.9		
Type of lighting fixtures	Commercial		
How heated	Coal stove		
Connected to water mains	Yes		
Connected to sewer	Yes		
Type of latrine	Syphom		
Permament or temporary installation	Permament		
Present condition	Good		
Reference of site	106. Ft.M.L.W.		
Reference of instrumental axis	113.39 M.L.W.		
Type of observing instrument	B"15 Lewis D.P.Mod. 1907 B"1 Lewis D.P.F.Mod. 1907 B"3 Swazey D.P.F. AII B"4 Swazey D.P.F. A B"2 Lewis D.P.F.Mod. 1907		

Dwg 103-127-28



SUPERSEDED - See Form 2, corrected to Sept. 15, 1933

REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS
(Fire Control or Torpedo Structures)

HARBOR DEFENSES OF PUGET SOUND
FORT WORDEN, WASH.
STRUCTURE - WEST SECONDARY (B"15 Brannan, B"1 Powell, B"3 Benson, B"4 Tolles-A, B"2 Ash)

Form 2. Corrected to September 15, 1938

Structure:	
Location; coordinates from C1F1 to B"3.	N.153.28 W.6095.42
Date of transfer	June 16, 1908
Cost to that date	$6,030.11
Type of construction	
(a) Roof	Asphalt Felt
(b) Remainder of building	Sewell, frame-plaster
How concealed	Earth embankment up to sighting slot
How protected	Ditto
Height above concealment	5 feet
Height above protection	5 feet
Conspicuous at	5000 yards
ELECTRIC CURRENT:	
Source of	Commercial and Searchlights: Nos. 2 & 3 Power Plant
Kilowatts required	15
Type of lighting fixtures	Commercial
HEAT:	
How heated	Coal & electric heaters
WATER AND SEWER:	
Connected to water mains	Yes
Connected to sewer	Yes, outlet to bluff
Type of latrine	Syphon
Permanent or temporary Install.	Permanent
Present condition	Good
REFERENCE:	
Reference of site	104.80 MLW (BM in base)
Reference of instrument axis	113.39 MLW

INSTRUMENTS & EQUIPMENT:	
Type of observing Inst.	B"15-Lewis DPF, M.1907,#67 B"1 -Ditto, #68 B"3 -Swazey DRF,M.AII,#127 B"4 -Ditto, M.A ,# 41 B"2 -Lewis DPF, M.1907,#69
Type of plotting board	Cloke Plotting & Relocating M. 1923, #62.
DATA TRANSMISSION:	
Type of	Telephone
REMARKS:	Station interior rearranged in part to accommodate experimental Hydracoustic equipment, June, 1938.

[redacted]

SUPERSEDED :- See Form 2, corrected to Feb 21, 1940

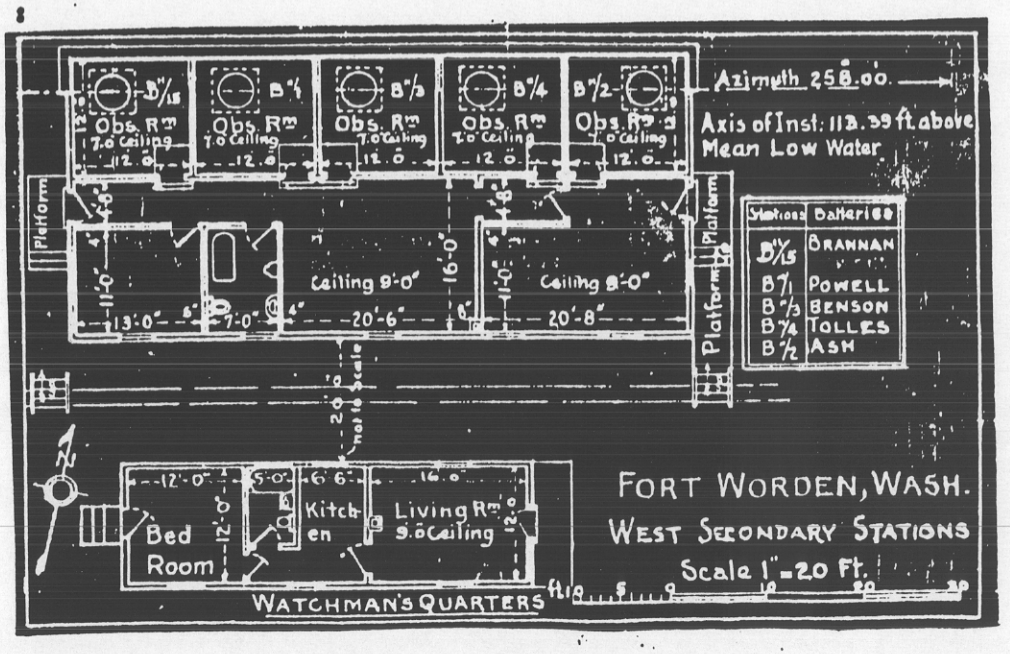
REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS
(Fire Control or Torpedo Structures)

HARBOR DEFENSES OF PUGET SOUND.
FORT WORDEN, WASHINGTON.
STRUCTURE WEST SECONDARY (B"15 Bran., B"1 Pow., B"3 Benson, B"4 Tolles-A, B"2 Ash)

Form 2. Corrected to February 21, 1940.

STRUCTURE:	
Location (B"3)	North 153.28
Coordinates from C1F1	West 6095.42
Date of transfer	June 16, 1908
Cost to that date	$6,030.11
Type of construction	
(a) Roof	Asphalt Felt
(b) Remainder of building	Sewell Frame Plaster
How concealed	Earth embankment up to sighting slot
How protected	Earth Emb. up to sighting slot
Height above concealment	5 feet
Height above protection	5 feet
Conspicuous at	5000 yards
ELECTRIC CURRENT:	
Source of	Com. & Sl. Nos. 2&3 P.P.
Kilowatts required	2.0
Type of lighting fixtures	Commercial
HEAT:	
How heated	Coal and electric heaters
WATER & SEWER:	
Connected to water mains	Yes
Connected to sewer	Yes, outlet to bluff
Type of latrine	Syphon
Permanent or Tem. Inst'ln	Permanent
Present condition	Good
REFERENCE:	
Reference of site	104.80' MLW (BM in base)
Reference of Inst. axis	113.39' MLW

INSTRUMENTS & EQUIPMENT:	
Type of Obsn. Inst.	B"15
" " " "	B"1
" " " "	B"3
" " " "	B"4
" " " "	B"2
Lewis DPF, M. 1907, Cl.	BM #67
" " " "	#68
Swazey " T.AII "	#127
" " T.A	# 41
Lewis " M.1907, Cl.BM,	#69
DATA TRANSMISSION:	
Type of	Telephone

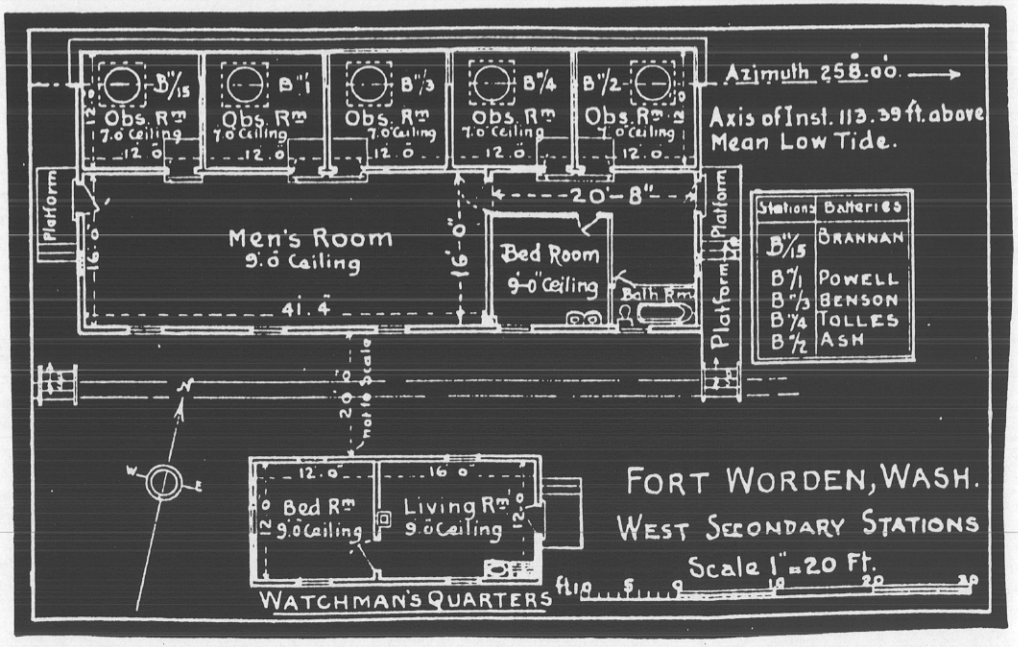


REPORT OF COMPLETED WORKS. SEACOAST FORTIFICATIONS.
(Fire Control or Torpedo Structures)

HARBOR DEFENSES OF PUGET SOUND.
FORT WORDEN. WASHINGTON.
STRUCTURES. WATCHMAN'S QUARTERS.

Form 2. Corrected to September, 1932.

Location	:20 feet in rear of West Sec.Sta.	:For Dormitories give stations served	:West Secondary Stations :& Searchlight 2 & 3.
Date of transfer	:June 16, 1908	:	:
Cost to that date	:Included with cost of stations	:	:
Type of construction	:	:	:
(a) Roof	:Asphalt-felt roofing over shiplap	:	:
(b) Remainder of building	:Sewell type (Frame-plaster)	:	:
How concealed	:From front by F.C.Stations	:	:
How protected	:No protection	:	:
Height above concealment	:2 feet lower than roof of stations	:	:
Source of electric current	:Not wired	:	:
How heated	:Coal stoves	:	:
Connected to water main	:Yes	:	:
Connected to sewer	: 2" sink drain	:	:
Type of latrine	:In a separate building	:	:
Permanent or temporary installation	:Permanent		
Present condition	:Good		
Reference of site	:104.0 feet M.L.W.		



SUPERSEDED:- See Form 2, corrected to Sept. 15, 1939

REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS
(Fire Control or Torpedo Structures)

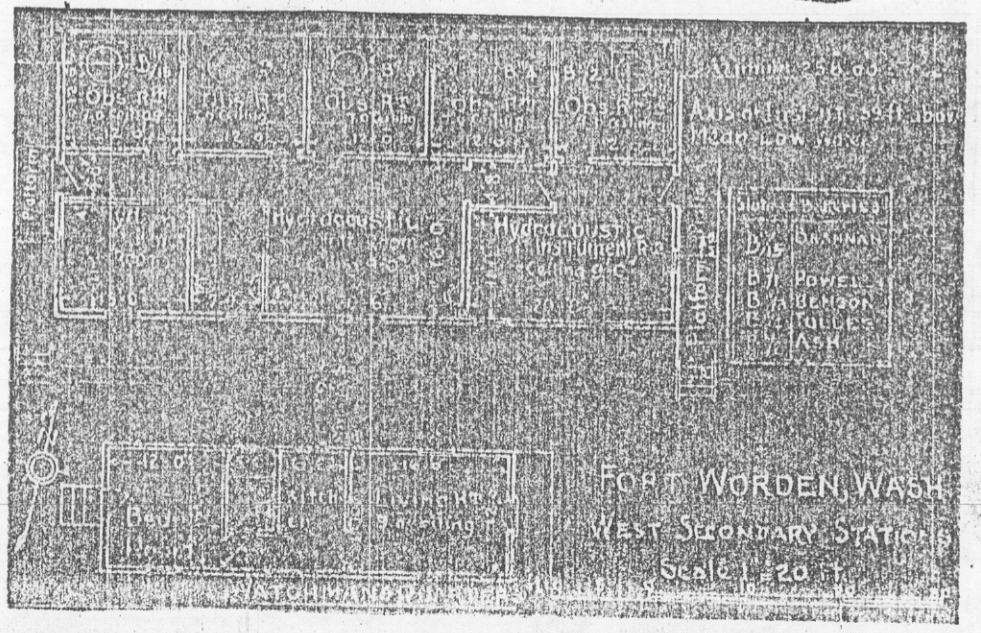
HARBOR DEFENSES OF PUGET SOUND
FORT WORDEN, WASH.
STRUCTURE- WEST SECONDARY WATCHMAN'S QRS.

Form 2. Corrected to September 15, 1938

STRUCTURE:	
Location	20 feet to rear of West Secondary Stations
Date of transfer	June 16, 1908
Cost to that date	Included with cost of West Secondary
Type of construction	
(a) Roof	Asphalt Felt
(b) Remainder of building	Sewell, frame-plaster
How concealed	From front by West Sec.
How protected	Earth embankment in front of West Secondary
Height above concealment	2 feet lower than roof of West Secondary
Height above protection	3 feet
Conspicuous at	Concealed from front by West Secondary.
ELECTRIC CURRENT:	
Source of	Commercial
Kilowatts required	10
Type of lighting fixtures	Commercial
HEAT:	
How heated	Coal heater
WATER AND SEWER:	
Connected to water mains	Yes
Connected to sewer	Yes, outlet to bluff
Type of latrine	Syphon
Permanent or temporary Install.	Permanent
Present condition	Good
REFERENCE:	
Reference of site	104 MIW

INSTRUMENTS & EQUIPMENT:	None
STATIONS SERVED:	West Secondary Stations and Searchlights 2 & 3
REMARKS:	12' x 12' room added and 5' x 8' bathroom inserted, September, 1938; at cost of $942.

SUPERSEDED:- See Form 2, corrected to Feb. 17, 1940

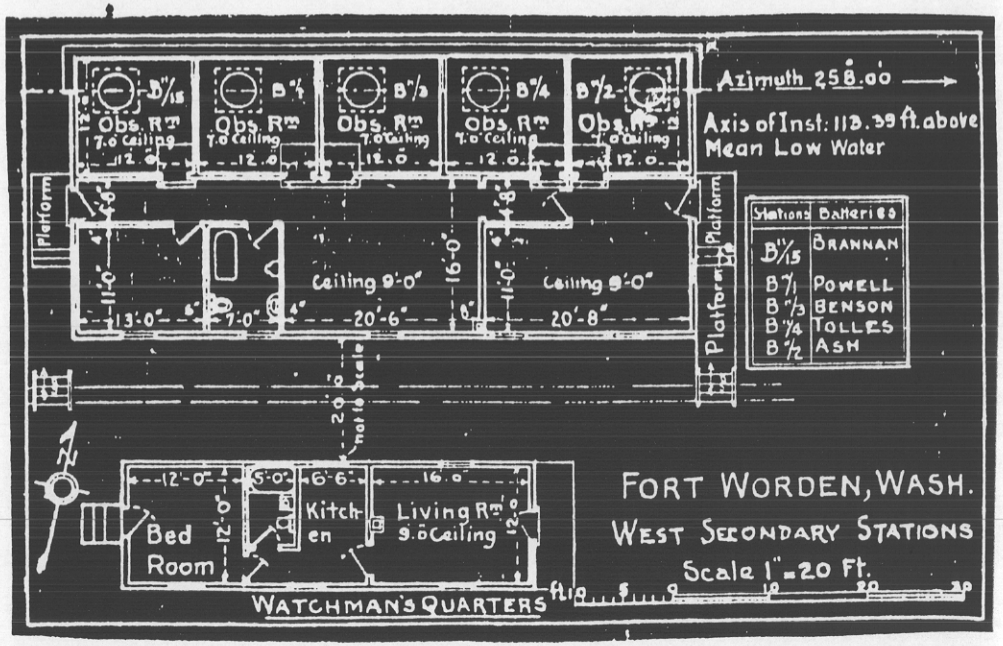


REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS
(Fire Control or Torpedo Structures)
Form 2. Corrected to February 17, 1940.

HARBOR DEFENSES OF PUGET SOUND.
FORT WORDEN, WASHINGTON.
STRUCTURE - WEST SECONDARY WATCHMAN'S QUARTERS

STRUCTURE:	
Location	20 feet to rear of West Secondary Stations
Date of transfer	June 16, 1908
Cost to that date	Included with cost of West Secondary Stations
Type of construction	
(a) Roof	Asphalt Felt
(b) Remainder of building	Sewell, frame plaster
How concealed	From front by West Secondary
How protected	Earth embankment in front of West Secondary Stations
Height above concealment	2 feet lower than roof of West Secondary Stations
Height above protection	3 feet
Conspicuous at	Concealed from front by West Secondary Stations
ELECTRIC CURRENT:	
Source of	Commercial
Kilowatts required	10
Type of lighting fixtures	Commercial
HEAT:	
ow heated	Coal heater
WATER AND SEWER:	
Connected to water mains	Yes
Connected to sewer	Yes, outlet to bluff
Type of latrine	Syphon
Permanent or temporary Instll.	Permanent
Present condition	Good
REFERENCE:	
Reference of site	104 feet M. L. W.

INSTRUMENTS & EQUIPMENT	None
STATIONS SERVED:	West Secondary Stations and Searchlights 2 & 3
REMARKS:	12'x 12' room added and 5'x 8' bathroom inserted, September, 1938, at a cost of $942.00



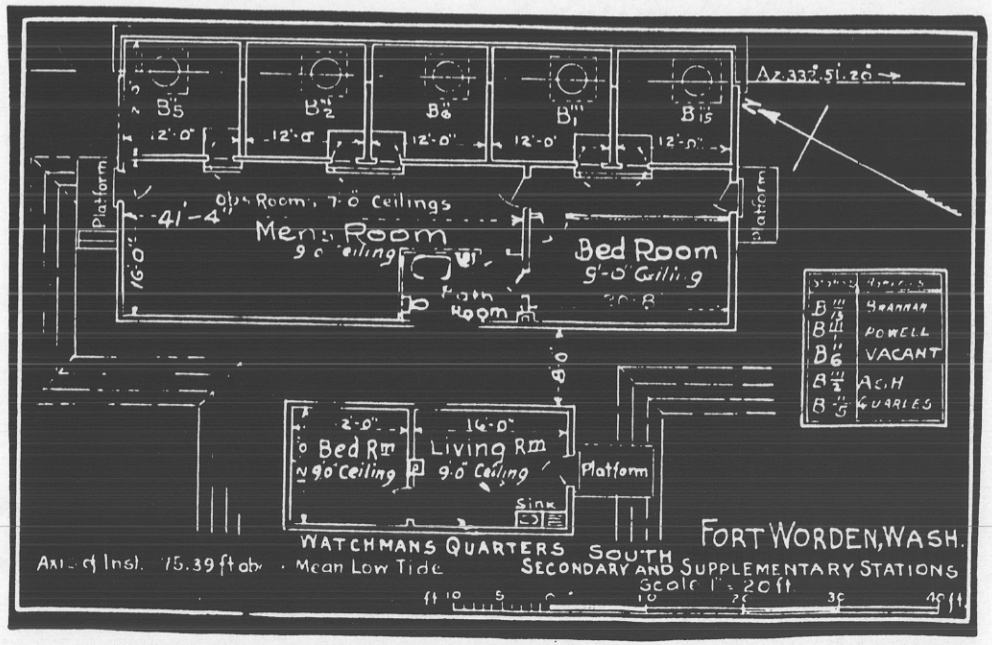
REPORT OF COMPLETED WORKS. SEACOAST FORTIFICATIONS.
(Fire Control or Torpedo Structures)

HARBOR DEFENSES OF PUGET SOUND.
FORT WORDEN. WASHINGTON.
STRUCTURES. B"'15, B"'1, B"6, B"'2 & B"5
(South Secondaries)

Form 2. Corrected to September 1932.

Location	:South 6000.48 to B"6	:Type of data transmission	:Telephone
Coordinates from C1F1	:East 3076.48	:	:
Date of transfer	:June 16, 1908	:	:
Cost to that date	:$5493.51	:	:
Type of construction	:	:	:
(a) Roof	:Asphalt-felt roofing over shiplap	:	:
(b) Remainder of building	:Sewell type (Frame-plaster	:	:
How concealed	:Shrubbery	:	:
How protected	:No protection	:	:
Conspicuous at	:2000 yards	:	:
Source of electric cur.	:Commercial power & power house of Searchlight #6	:	:
Kilowatts required	:0.90	:	:
Type of lighting fixt.	:Commercial	:	:
How heated	:Coal stoves		
Connected to water main	:Yes		
Connected to sewer	:Yes		
Type of latrine	:Syphon		
Permament or temporary Installation	:Permament		
Present condition	:Fair		
Reference of site	:68. feet M.L.W.		
Reference of instrumental axis	:75.39 M.L.W.		
Type of observing inst.	:B"'15 Lewis D.P.F.Mod.1907		
	:B"'1 Lewis D.P.F.Mod.1907		
	:B"'2 Swazey D.P.F.Class "A"		
	:B"5 Swazey D.P.F.Class AII		

20 feet in rear of West Sec. Stations.



SUPERSEDED - See Form 2, corrected to Feb. 20, 1940

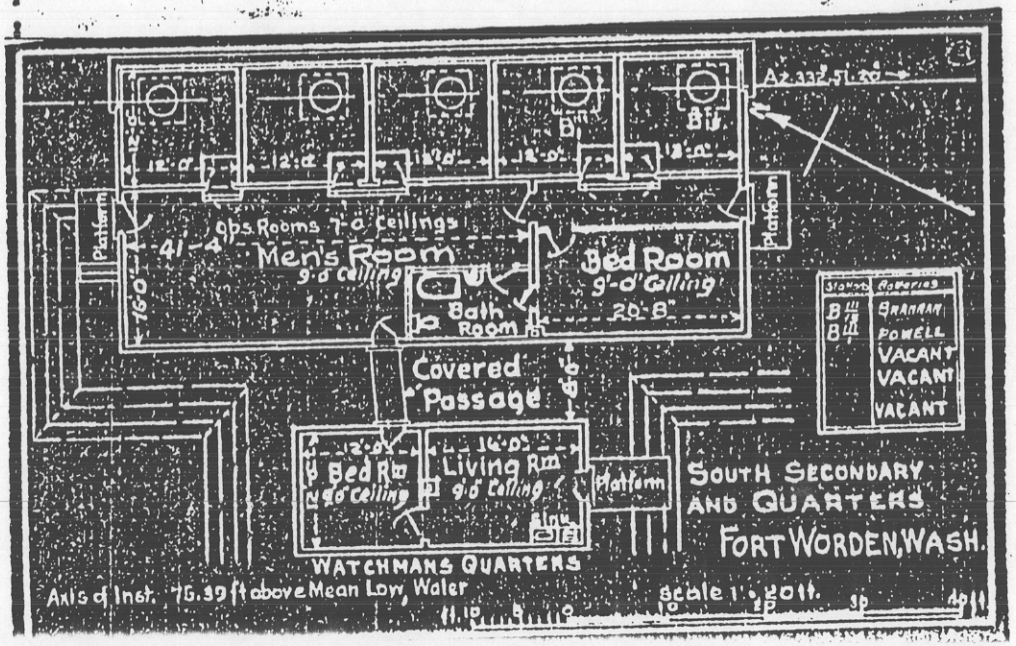
REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS
(Fire Control or Torpedo Structures)

HARBOR DEFENSES OF PUGET SOUND.
FORT WORDEN, WASHINGTON.
STRUCTURE: SOUTH SECONDARY.
(Formerly B"'15, B"'1, B"6, B"'2 & B"5)

Form 2. Corrected to February 20, 1940.

STRUCTURE:	
Location (Middle Station)	South 6000.48
Coordinates from C1F1	East 3076.48
Date of transfer	June 16, 1908
Cost to that date	$5493.51
Type of construction	
(a) Roof	Asphalt-felt Roof. over Shipl.
(b) Remainder of building	Sewell type Frame Plaster
How concealed	Shrubbery
How protected	No protection
Height above concealment	6 feet
Height above protection	No protection
Conspicuous at	2000 yards
ELECTRIC CURRENT:	
Source of	Com. power & S.L. No. 6 P.P.
Kilowatts required	0.9
Type of lighting fixtures	Commercial
HEAT:	
How heated	Coal stove
WATER & SEWER:	
Connected to water mains	Yes
Connected to sewer	Septic Tank
Type of latrine	Syphon
Permanent of Temp. Inst'ln	Permanent
Present condition	Good
REFERENCE:	
Reference of site	68 feet M. L. W.
Reference of Inst. axis	75.39

INSTRUMENTS AND EQUIPMENT:	
Type of observing Inst.B"'15	Lewis DPF, Model 1907, Class BM, No. 66
Type of observing Instr. B"'1	Lewis DPF, Model 1907, Class BM, No. 70
Type of Obsn.Inst. Vacant	Swazey DPF, Type A, No. 45
Type of Obsn.Inst. Vacant	" " " AII, " 144
Type of Obsn.Inst. Vacant	" " " AII, " 145
DATA TRANSMISSION:	
Type of	Telephone



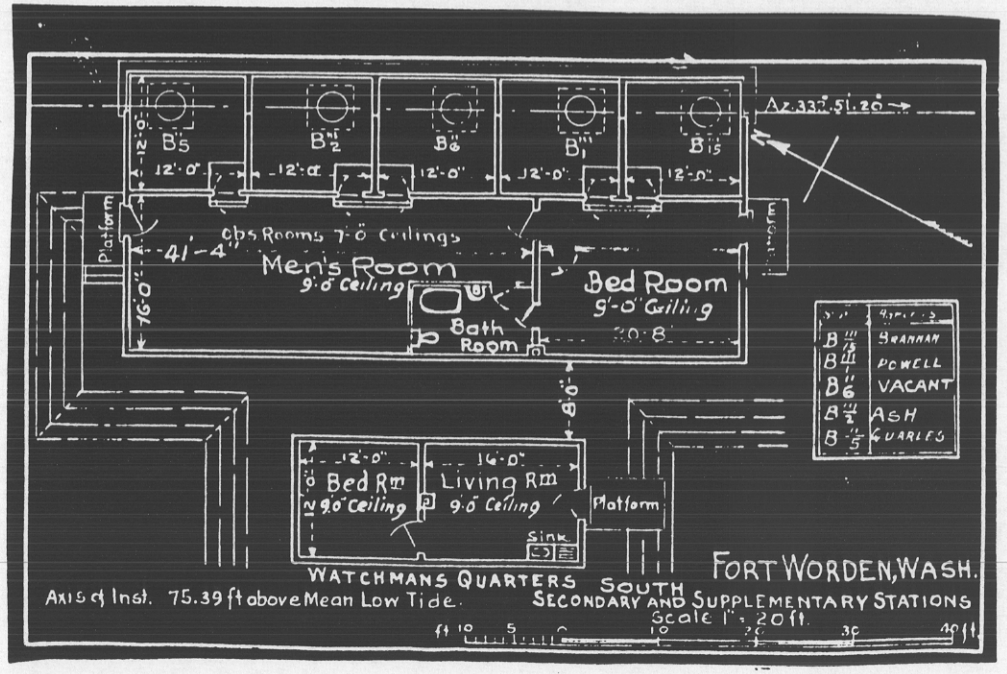
EPORT OF COMPLETED WORKS. S ACOAST FORTIFICATIONS.
(Fire Control or Torp edo Structures)

HARBOR DEFENSES OF PUGET SOUND.
FORT WORDEN. WASHINGTON.
STRUCTURES. WATCHMAN'S QUARTERS.

orm 2. Corrected to September, 1932.

ocation	:20 feet in rear of south Sec.Sta.	:For dormitories give stations served	:South Secondary Stations :& Searchlight No. 6.
ate of transfer	:June 16,1908	:	:
ost to that date	:Included with cost of stations	:	:
pe of construction	:	:	:
(a) Roof	:Asphalt-felt roofing over shiplap	:	:
(b) Remainder of building	:Sewell type (Frame-plaster)	:	:
How concealed	:From front by F.C.Stations	:	:
How protected	:No protection	:	:
Height above concealment	:2 feet lower than roof of stations	:	:
Source of electric current	:Power House of S.L.#6 & commercial power	:	:
Kilowatts required	:0.18	:	:
Type of lighting fixtures	:Commercial		
How heated	:Coal stoves		
Connected to water mains	:Yes		
Connected to sewer	:Connected to drain		
Type of latrine	:In a separate building		
Permament or temporary installation	:Permament		
Present condition	:Good		
Reference of site	:68.0 feet M.L.L.W.		

SUPERSEDED - See Form 2. corrected to Feb 20, 1940

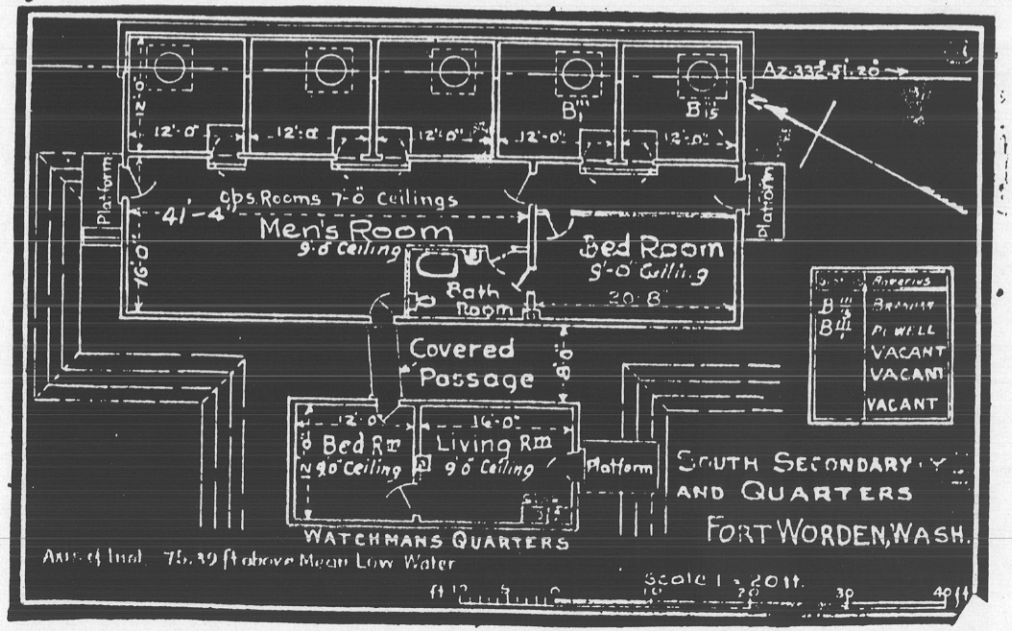


REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS
(Fire Control or Torpedo Structures)

HARBOR DEFENSES OF PUGET SOUND.
FORT WORDEN, WASHINGTON.
STRUCTURE SOUTH SECONDARY QUARTERS.

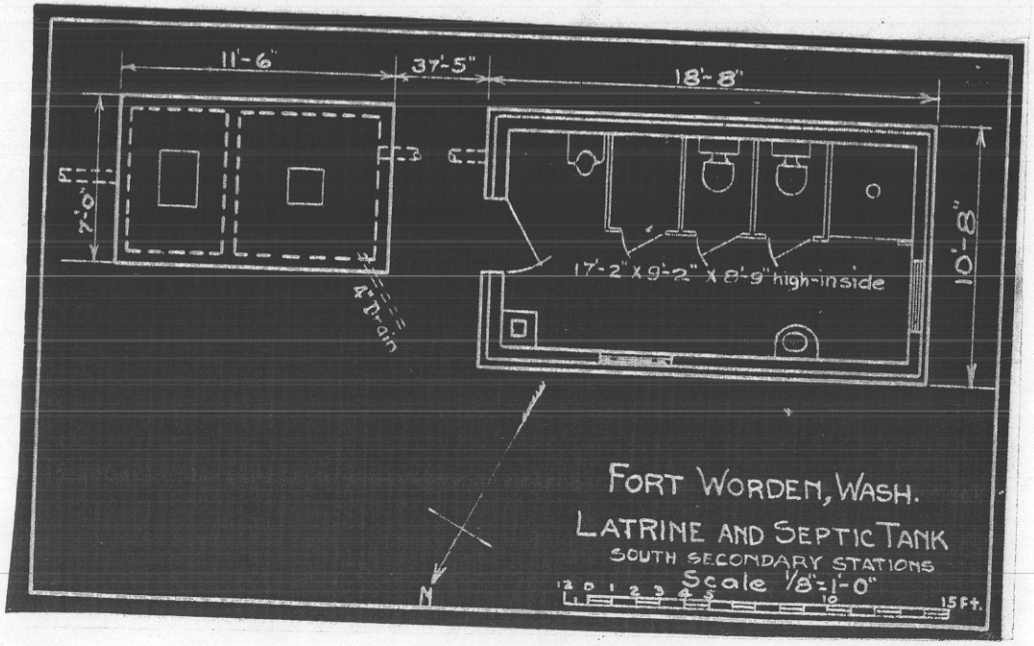
Form 2. Corrected to February 20, 1940.

STRUCTURE:		STATIONS SERVED	South secondary & Sl. No. 6
Location	8ft. in rear of So. Secondary		
Date of transfer	June 16, 1908		
Cost to that date	Included in cost of So. Sec.		
Type of construction			
(a) Roof	Asphalt-felt Roof. over Shipl.		
(b) Remainder of building	Sewell type Frame Plaster		
How concealed	From front by So. Secondary		
How protected	No protection		
Height above concealment	2 ft. lower than roof of So.Sec.		
Height above protection	No protection		
ELECTRIC CURRENT:			
Source of	Com. power & Sl. No. 6 P.P.		
Kilowatts required	~~0.5~~ 1.0		
Type of lighting fixtures	Commercial		
HEAT:			
How heated	Coal stove		
WATER & SEWER:			
Connected to water mains	Yes		
Connected to sewer	Septic Tank		
Type of latrine	Syphon. In latrine building		
Permanent or Temp. Inst'ln	Permanent		
Present condition	Good		
REFERENCE:			
Reference of site	68 feet M. L. W.		



REPORT OF COMPLETED WORKS. SEACOAST FORTIFICATIONS.
(Fire Control or Torpedo Structures)

HARBOR DEFENSES OF PUGET SOUND.
FORT WORDEN. WASHINGTON
STRUCTURE. LATRINE & SEPTIC TANK.

Form 2. Corrected to September, 1932.

Location	:30 feet south of South Secondary Stations	:Stations served.	:South Secondary Stations :& its Watchmans Quarters.
Date of transfer	:Dec. 30, 1918	:	:
Cost to that date	:$3000.00	:	:
Kind of construction	:	:	:
(a) Roof	:Asphalt-felt roofing over shiplap	:	:
(b) Remainder of building	:Sewell type (Frame-plaster) :Septic tank is of concrete	:	:
How concealed	:Shrubbery	:	:
How protected	:No protection	:	:
Conspicious at	:2000 yards	:	:
Source of electric current	:Power House of Searchlight #6 & commercial power	:	:
Kilowatts required	:0.18	:	:
Type of lighting fixtures	:Commercial	:	:
How heated	:Coal stove		
Connected to water main	:Yes		
Connected to sewer	:Yes		
Type of latrine	:Syphon		
Permament or temporary installation	:Permament		
Present condition	:Good		
Reference of site	:68.00 feet M.L.W.