

600.914 (San Diego) 96143

SPEKM-1

REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATIONS
(Batteries)~~CONFIDENTIAL~~HARBOR DEFENSES OF SAN DIEGO
FORT ROSECRANS (FORT EMORY)
BATTERY GRANT No. of guns 2
Caliber 6-INCH Carriage Barbette
239

Part I

Corrected to 3 June 1944

96143

GENERAL:

Battery commenced: 5 June 1942
 Battery completed: 8 December 1943
 Date of transfer: 25 April 1944
 Cost to date of transfer: \$218,851.95
 Materials of construction: Reinforced concrete
 Battery new or modernized: New
 Trunnion elevation in battery: 31.0
 Datum plane: Mean Lower Low Water

UTILITIES:WATER SUPPLY

Source of: California Water & Telephone Company
 Alternate source: None
 Size of main: 16-inch (6" line to battery-reduced to 3")

SEWER:

Connected to sewer: No
 Type of disposal: Septic tank
 Type of latrine: Frost proof, syphon-jet

"

"

UTILITIES: (Contd.)ELECTRIC POWER

" Source of: Main Generators (in power room)
 " Procured & installed by: Ordnance
 " Characteristics: Voltage 460 AC 3 Phase 60 cycle
 " Number of units and capacity: 3 - 125 KVA; 80% P.F.
 " Max. K.W. required for utilities: 26.85
 " Max. K.W. required for nonbattle conditions: 31.85
 " Commercial power provided: Yes Capacity: 2400/480/240-3 ϕ ₄
 " * Auxiliary power unit provided: No
 " Type of lighting fixtures: Direct (Wheeler reflectors)
 " Dehumidifying unit: None
 " Rooms wet or dry: Dry
 " How ventilated: 18" dia. vent pipe (For Plotting and
 " Spotting Rooms)(Normal ventilation
 " obtained by by-passing C.W.S. cannisters)
 " How heated: Electric (Forced-convection Type)
 " DATA TRANSMISSION:
 " Type: M-7
 " REMARKS:
 " * Commercial power provided as auxiliary source.
 " Origin of U.S.E.D. local coordinates is U.S.C. & G.S.
 " station "Old Town."

ARMAMENT

Emplacement		Guns				Carriages				Serial No.	
Number	Cal.	Length	Model	Serial No.	Manufacturer	Mounted	Type	Model	Serial No.	Manufacturer	Motor
1	" 6"	'302.90"	' 1905	' 24	' Watervliet Ars	Yes	' Barbette	' Barbette	56	' York Corp.	' 10-50F982
2	" 6"	'302.90"	' M-1905	' 20	' "	"	"	"	57	" "	' 36-50F982
	"	'	'	'	'	'	'	'	'	'	'
	"	'	'	'	'	'	'	'	'	'	'

FS-77 & 355

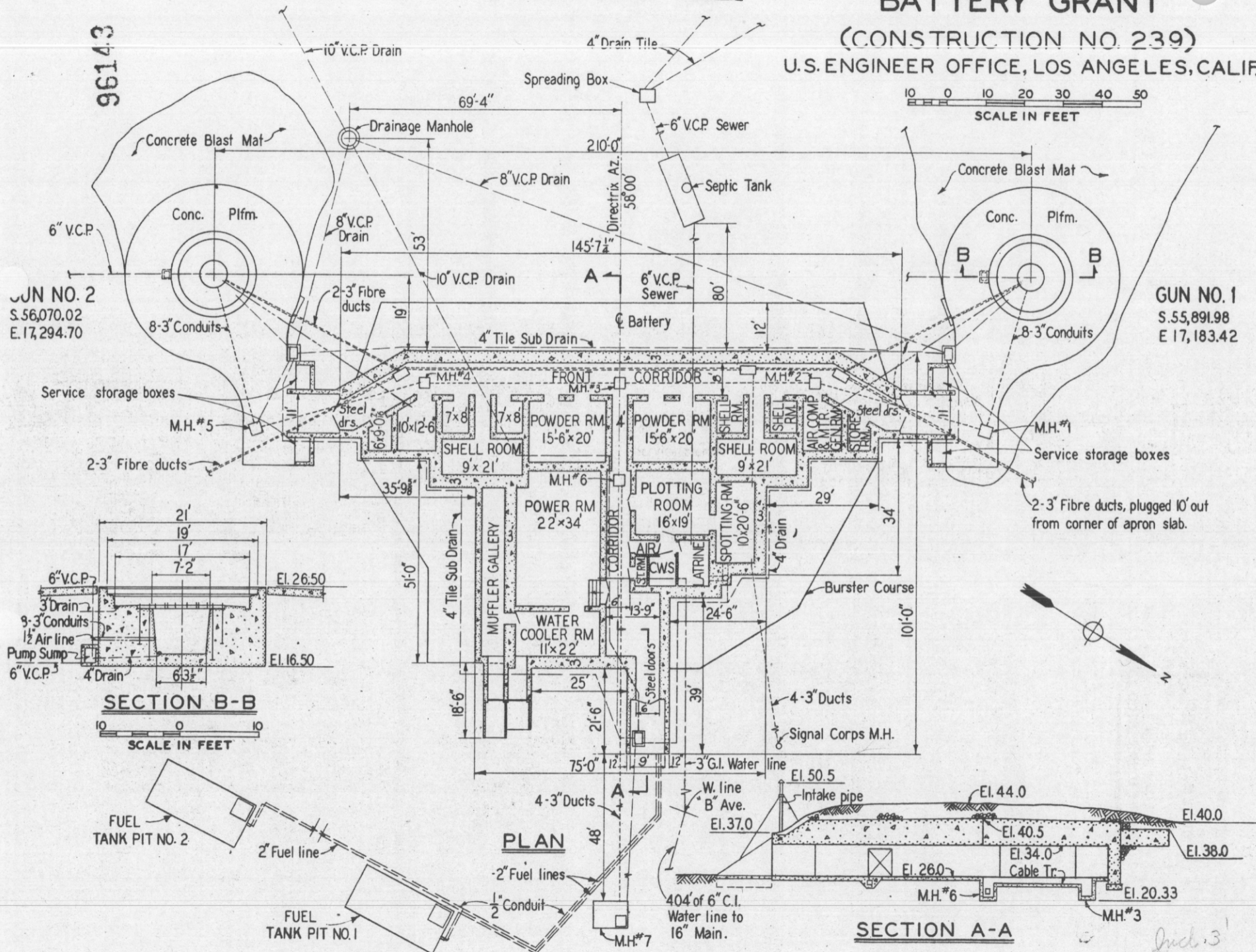
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(CONSTRUCTION NO. 239)

U.S. ENGINEER OFFICE, LOS ANGELES, CALIF.

JUN NO. 2
\$56,070.02
E. 17,294.70

GUN NO. 1
S.55,891.98
E 17,183.42



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SPEKM-1

REPORT OF COMPLETED WORKS - SEACOAST FORTIFICATION
(Electric Plants)

HARBOR DEFENSES OF SAN DIEGO
FORT ROSECRANS (FORT EMORY)
POWER FOR BATTERY GRANT
PROCURED & INSTALLED BY ORDNANCE

Part V Corrected to 3 June 1944

	Serial No.	Type	Size	Mfr.	Date of Trans.	Cost	Condition	RPM	Type of Drive	Cooler for Engine	Fuel	Switchboard	
												Material	No. of Panels
Engine No. 1	V.O. 1941	Diesel	BB 5	Worth'g'tn	*	**	Good	600	Direct		Diesel		
No. 2	V.O. 1942	"	"	Pump & Mfg	*	**	"	"	"		Oil		
No. 3	V.O. 1943	"	"	Company	*	**	"	"	"		"		
Generator													
No. 1	75-S1-8P-867		100 KW	West'g'hse	*	**	"	"	"				
No. 2	73-S1-8P-867		"	"	*	**	"	"	"				
No. 3	74-S1-8P-867		"	"	*	**	"	"	"				
Water Cooler													
No. 1	1,055,946	Model #1	-	Worth'g'tn	*	**	"	-	-	No.1			
No. 2	1,055,945	"	-	Pump & Mfg	*	**	"	-	-	No.2			
No. 3	1,055,944	"	-	Company	*	**	"	-	-	No.3			
Motor Generator	(No motor generator)												
Switchboard	None	('BUZ 64816	7'-6"x	West'g'hse	*	**	"	-	-	-	-	10ga. steel	7
		('Bu-2950-74	12'-4"										
Storage Battery	(No batteries)												
Transformer													
Panel No. 1	3305423	JR	1.5KVA	"	*	**	"	-	-	(Operating - for generators)			
" No. 2	3305422	JR	"	"	*	**	"	-	-	"	"	"	"
" No. 3	3305420	JR	"	"	*	**	"	-	-	"	"	"	"
" No. 7													
(3 Transfms)		STYLE											
	3305004	74RS-394	10 KVA	"	*	**	"	-	-	(Distribution)			
	3305027	"	"	"	*	**	"	-	-	"	"	"	"
	3305043	"	"	"	*	**	"	-	-	"	"	"	"
Auxiliaries	None (Commercial Power Provided)												

NOTE: For distribution K.W. see reverse.

- * Not available, transferred by Ordnance Department
- ** Not available, procured by Ordnance Department.

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Distribution of K.W. under battle conditions:

Gun Motors	2 - 10 H.P.	14.92 KW
Compressor in power room	5 H.P.	3.73
Ventilating fan in power room	1 H.P.	.75
Microtherms on coolers	3 - 1/2 amp.	.04
Cooling fan motors	3 - 1 H.P.	2.24
Damper control motors	3 - 1/2 amp.	.04
Water pump motors	3 - 2 H.P.	4.48
Spray pump motors	3 - 1/4 H.P.	.56
Cooling fan motors	3 - 1 H.P.	2.24
C.W.S. equipment motors	2 - 1/2 H.P.	.75
Fuel Pumps	2 - 3/4 H.P.	1.12
Air scavenger motors	2 - 15 H.P.	22.38
Governor motors	3 - .35 amp.	.15
Float switches	2 - 1/5 H.P.	.30
Space heaters in switchboard	5 - 100W; 6 - 250W	2.0
Heating units	2 - 5000W; 1 - 7500W	17.5
Lights	16 - 200W; 54 - 100W	8.6
Spare	3000W	3.0
	TOTAL	84.80

OFFICE DIVISION ENGINEER
PACIFIC DIVISION

JUN 7 14-10-00 AM

SAN FRANCISCO CALIF. 94

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