

PROPERTY OF O. H. YUST, JR.

PROPERTY OF O. H. YUST, JR.

No. 5981

COMPLETE ROUND CHARTS



PROPERTY OF O. H. YUST, JR.

PROPERTY OF C. H. YUEN JR.

Sheet No. 1

Sheet No. 1A

AMMUNITION (FIXED) FOR 2.24-INCH TANK GUN, MK II (BR.)

2.24-inch

NOTES	MARK OR MODEL OF GUN	COMPLETE ROUND DRG. NO.	PROJECTILE										FUZE			BASE COVER		CARTRIDGE CASE		PROPELLING CHARGE		PRIMER*			PACKING				ASSEMBLY NO.						
			Kind	Type	Designation	Drg. No.	Wt. loaded and fuze	CHARGE		Material	FORGING OR CASTING		Mk. or Mod.	Type	Drg. No.	Type	Drg. No.	Mk. or Type	Drg. No.	Nominal weight	Kind	Size	Designation†	Drg. No.	Fuze	PRIMER	ROUND								
								Wt.	Kind		Type	Drg. No.													Drg. No.	Drg. No.	Drg. No.	Drg. No.		Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.
S.....	II.....	75-1-12	Shell.....	H. E.....		75-5-2	Lb. 6.00	Lb. 0.25	TNT.....	Steel.....	Forg.....		B. D.....	73-1-45	I.....	75-14-37		71-5-2	Lb. 0.6	FNH.....	100-gr.	M1B1...	74-2-32	76-7-21	76-8-29	76-1-12	Fuzed...	1							
S.....	II.....	75-1-11	Canister ..		Mk. I.	75-2-213	6.00	Shrapnel balls										71-5-2	.6	FNH.....	100-gr.	M1B1...	74-2-32		76-8-29	76-1-229			2						
S.....	II.....	75-1-23	Target practice			75-5-5	6.00	.16	Black powder.	Cast iron			B. P.....	73-1-49				71-5-2	.6	FNH.....	100 gr.	M1B1...	74-2-32		76-8-29	76-1-12	Fuzed...	A							
																												</							

Sheet No. 1C

AMMUNITION (FIXED) FOR 75-MM FIELD GUNS (FRENCH MOD. '97, BRITISH MOD. '17, AND AMERICAN MOD. '16)

75-mm

NOTES	Mark or model of gun	COMPLETE ROUND DRG. NO.	PROJECTILE										ADAPTER AND BOOSTER		FUZE			BASE COVER	CARTRIDGE CASE		PROPELLING CHARGE		PRIMER**			PACKING						ASSEMBLY NO.
			Kind	Type	Designa- tion	Drg. No.	Wt. loaded and fuzed	CHARGE		Material	FORGING OR CASTING		Designa- tion	Drg. No.	Designa- tion	Type	Drg. No.	Drg. No.	Mk. or Type	Drg. No.	Nom-inal weight	Kind	Size	Designa- tion	Drg. No.	BOXES			FIBER CONTAINER		Bundle acces- sories	
								Wt.	Kind		Type	Drg. No.														Fuze	Booster	Primer	Round			
																													Drg. No.	Drg. No.		
†S.....	All..	75-1-52	Shell.....	H. E.....	Mk. I.....	75-2-164	Lb. 12.46	Lb. 1.64	TNT*	Steel.....	Forg.....	75-20-1	Mk. III.....	73-1-55	M46.....	P. D.....	73-2-126	75-2-164	.....	71-2-71	Lb. 1.35	FNH.....	75-gr.....	M22.....	74-2-35	76-7-614	76-7-258	76-8-49	76-1-179	Unfuzed.....	76-1-245	14
S.....	All..	75-1-52	Shell.....	H. E.....	Mk. I.....	75-2-164	12.07	1.64	TNT*	Steel.....	Forg.....	75-20-1	Mk. III.....	73-1-55	Mk. IV.....	P. D.....	73-1-81	75-2-164	.....	71-2-71	1.35	FNH.....	75-gr.....	M22.....	74-2-35	76-7-246	76-7-258	76-8-49	76-1-179	Unfuzed.....	76-1-245	2
S.....	All..	75-1-52	Shell.....	H. E.....	Mk. I.....	75-2-164	12.18	1.64	TNT*	Steel.....	Forg.....	75-20-1	Mk. III.....	73-1-55	Mk. V.....	P. D.....	73-1-82	75-2-164	.....	71-2-71	1.35	FNH.....	75-gr.....	M22.....	74-2-35	76-7-246	76-7-258	76-8-49	76-1-179	Unfuzed.....	76-1-245	3
ψS. & M.....	All..	75-1-52	Shell.....	H. E.....	Mk. I.....	75-2-164	12.07	1.64	TNT*	Steel.....	Forg.....	75-20-1	Mk. III.....	73-1-55	Mk. IV.....	P. D.....	73-1-81	75-2-164	.....	71-2-71	Oz. 9	FNH.....	75-gr.....	M22.....	74-2-35	76-7-246	76-7-258	76-8-49	76-1-179	Unfuzed.....	76-1-245	4
S.....	All..	75-1-52	Shell.....	H. E.....	Mk. I.....	75-2-164	12.18	1.64	TNT*	Steel.....	Forg.....	75-20-1	Mk. III.....	73-1-55	Mk. V.....	P. D.....	73-1-82	75-2-164	.....	71-2-71	9	FNH.....	75-gr.....	M22.....	74-2-35	76-7-246	76-7-258	76-8-49	76-1-179	Unfuzed.....	76-1-245	5
ψS. & M.....	All..	.....	Shell.....	H. E.....	Mk. I.....	75-2-164	12.46	1.64	TNT.....	Steel.....	Forg.....	75-20-1	Mk. III.....	73-1-55	M46.....	P. D.....	73-2-126	75-2-164	.....	71-2-71	9	FNH.....	75-gr.....	M22.....	74-2-35	76-7-614	76-7-258	76-8-49	76-1-179	Unfuzed.....	76-1-245	15
††S. & M.....	All..	75-1-5	Shell.....	H. E.....	Mk. IV.....	75-2-180	13.77	1.34	TNT*	Steel.....	Forg.....	75-20-40	Mk. III B.....	73-1-104	M46.....	P. D.....	73-2-126	75-2-180	.....	71-2-71	Lb. 1.82	FNH.....	100-gr.....	M1B1.....	74-2-32	76-7-614	76-7-258	76-8-29	76-1-179	Unfuzed.....	76-1-245	16
†S. & M.....	All..	75-1-5	Shell.....	H. E.....	Mk. IV.....	75-2-180	13.38	1.34	TNT*	Steel.....	Forg.....	75-20-40	Mk. III B.....	73-1-104	Mk. IV.....	P. D.....	73-1-81	75-2-180	.....	71-2-71	1.82	FNH.....	100-gr.....	M1B1.....	74-2-32	76-7-246	76-7-258	76-8-29	76-1-179	Unfuzed.....	76-1-245	7
S.....	All..	75-1-5	Shell.....	H. E.....	Mk. IV.....	75-2-180	13.49	1.34	TNT*	Steel.....	Forg.....	75-20-40	Mk. III B.....	73-1-104	Mk. V.....	P. D.....	73-1-82	75-2-180	.....	71-2-71	1.82	FNH.....	100-gr.....	M1B1.....	74-2-32	76-7-246	76-7-258	76-8-29	76-1-179	Unfuzed.....	76-1-245	8
†S. & M.....	All..	75-1-8	Shell.....	Chem.....	Mk. II.....	75-2-171	12.77	1.78	Chem.....	Steel.....	Forg.....	75-20-1	Mk. IV B.....	73-1-99	M46.....	P. D.....	73-2-126	.....	.....	71-2-71	1.35	FNH.....	75-gr.....	M22.....	74-2-35	76-7-614	76-7-263	76-8-49	76-1-179	Unfuzed.....	76-1-245	17
S. & M.....	All..	75-1-8	Shell.....	Chem.....	Mk. II.....	75-2-171	12.38	1.78	Chem.....	Steel.....	Forg.....	75-20-1	Mk. IV B.....	73-1-99	Mk. IV.....	P. D.....	73-1-81	.....	.....	71-2-71	1.35	FNH.....	75-gr.....	M22.....	74-2-35	76-7-246	76-7-263	76-8-49	76-1-179	Unfuzed.....	76-1-245	10
S.....	All..	75-1-8	Shell.....	Chem.....	Mk. II.....	75-2-171	12.49	1.78	Chem.....	Steel.....	Forg.....	75-20-1	Mk. IV B.....	73-1-99	Mk. V.....	P. D.....	73-1-82	.....	.....	71-2-71	1.35	FNH.....	75-gr.....	M22.....	74-2-35	76-7-246	76-7-263	76-8-49	76-1-179	Unfuzed.....	76-1-245	11
S. & M.....	All..	75-1-6	Shrap.....	.....	Mk. I.....	75-2-163	15.95	{ 270 } balls	.....	Steel.....	Forg.....	75-20-2	.....	.....	'07 M.....	21 - sec. comb.	73-3-114	.....	.....	71-2-71	1.69	FNH.....	100-gr.....	M1B1.....	74-2-32	76-7-502	.....	76-8-29	76-1-179	Unfuzed.....	76-1-245	12
††M.....	All..	.....	Shell.....	H. E.....	Mk. XII.....	75-2-197	14.70	0.87	TNT.....	Semisteel	Cast.....	75-20-45	Mk. III.....	73-1-55	M46.....	P. D.....	73-2-126	75-2-197	.....	71-2-71	2.00	FNH.....	100-gr.....	M1B1.....	74-2-32	76-7-614	76-7-258	76-8-29	76-1-179	Unfuzed.....	76-1-245	18
S.....	All..	72-3-43	Round.....	Drill.....	.....	.....	.....	.....	.....	Bronze.....	.....	.....	.....	.....	'07 M.....	21 - sec. comb.Δ	73-3-114	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	ΔΔ	Complete	.....	A
ψS. & M.....	All..	75-1-20	Target practice	.....	Mk. I.....	75-2-164	11.85	1.83	Sand.....	Steel.....	Forg.....	75-20-1	Mk. III⊖.....	73-1-55	IV □.....	P. D.....	73-1-81	75-2-164	.....	71-2-71	1.35	FNH.....	75-gr.....	M22.....	74-2-35	76-7-246	.....	76-8-49	.....	Fuzed.....	76-1-245	B
S. & M.....	All..	72-3-65	Round.....	Drill.....	M7.....	.....	20.38	.....	.....	Bronze and steel	.....	.....	.....	.....	'07 M.....	21 - sec. comb.Δ	73-3-114	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Complete	.....	C

S. = Issue. M. = Manufacture.
P. D. = Point detonating.
Comb. = Combination time and percussion.
FNH. = Flashless, nonhygroscopic powder.
Nitrocellulose or pyrocellulose powder may be used as a "substitute standard."
H. E. = High explosive.
Chem. = Chemical.
‡ 40-grain primer, used with N. C. powder as substitute standard.
U. S. GOVERNMENT PRINTING OFFICE 10100

ψ Assembly of components on hand. No manufacture of Mk. I shell required.
* Some shell on hand are loaded with 50/50 amatol.
Δ Burned-out fuze parts that have been condemned, or parts rejected by inspectors of the regular 21-sec. comb. or 21-sec. A-A service fuzes may be used.
** Some rounds on hand have 49-grain percussion primer, Drawing 74-2-18, or 100-grain percussion primer, M1, Drawing 74-2-23, inserted in cartridge case.
⊖ Various other granulations of FNH powder have been used in existing ammunition. Weights of charge vary between 1.25 and 1.44 pounds.
† M48 H. E. shell, Drawing 75-2-260, with P. D. fuze M39A2 and Booster M20 is authorized by O. C. M. 11810 for limited procurement.

† A substitute for steel shell in an emergency.
□ Inert fuze.
⊕ Adapter only.
⊖ 100-grain primer, M1, Drawing 74-2-23, alternative with 100-grain primer M1B1.
‡ Where P. D. fuze, M46, is not available the Mk. III P. D. fuze, Drawing 73-2-39, or the M35 P. D. fuze, Drawing 73-2-98, may be substituted.
⊕ Some rounds on hand in fiber containers are packed in wooden boxes shown on Drawing 76-1-78.
ΔΔ For drill round kit see Drawing 72-3-45.

U. S. GOVERNMENT PRINTING OFFICE 10100

S. = Issue.
M. = Manufacture.
P. D. = Point detonating.
Comb. = Combination time and percussion.
FNH. = Flashless, nonhygroscopic powder.
H. E. = High explosive.

☐ Semifixed ammunition.
Δ Burned-out fuze parts that have been condemned, or parts rejected by inspectors of the regular 21-sec. comb. or 21-sec. A-A service fuzes, may be used.
‡ 100-gr. primer M1, Drawing 74-2-23, alternative with 100-gr. primer M1B1.
‡ To be issued until supply of modified Mk. IV H. E. shell is exhausted.
‡ M48 H. E. shell, Drawing 75-2-269, with P.D. fuze M39A2 and booster M20, is authorized by O. C. M. 13191 for limited procurement.

☐ Fixed ammunition.
* Approximately 8,000 H. E. shell M35, Drawing 75-2-249, with Mk. IV P. D. fuzes, have been issued to the service for training purposes.
‡ See Drawing 71-9-126 for propelling charge drawing.
** Some rounds on hand in fiber containers are packed in wooden boxes. See Drawings 76-1-90 and 76-1-191.

ISSUED—June 25, 1930.
REVISED—July 1, 1937.

Sheet No. 2B

Sheet No. 5

Sheet No. 5C

AMMUNITION (SEPARATE LOADING) FOR 6-INCH SEACOAST GUNS, MODELS '97MI, '00, '03, '05, '08, '08MI, AND MII

6-inch

NOTES	MARK OR MODEL OF GUN	PROJECTILE										ADAPTER AND BOOSTER		FUZE			BASE COVER		PROPELLING CHARGE				PRIMER				PACKING						ASSEMBLY No.																																																																																																																																																																																																																																																																																																																																																																																																																																													
		Kind	Type	Mk. or Mod.	Drg. No.	Wt. loaded and fuzed	CHARGE		Material	FORGING OR CASTING		Mk. No.	Drg. No.	Mk. or Mod.	Type	Drg. No.	Type	Drg. No.	CARTRIDGE BAG		Nominal weight charge	Kind □	Type*	Mk. or Mod.	Drg. No.	FUZE		BOOSTER	C. S. C.	PRIMER		PROJECTILE																																																																																																																																																																																																																																																																																																																																																																																																																																														
							Wt.	Kind		Type	Drg. No.								Mk. or type	Drg. No.						Drg. No.	Drg. No.			Drg. No.	Drg. No.	Drg. No.		Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No

S. = Issue.
M. = Manufacture.
P. D. = Point detonating.
B. D. = Base detonating.
S. S. = Single section.
B. & I. = Base and increment.
C. S. C. = Cartridge storage case.
Δ Shipped uncased with rope grommet.
□ Some pyro powder charges are on hand available for issue.

*Guns in emplacements fitted with electrical equipment use electric primer for seacoast cannon, Drawing 74-5-18, with friction primer for emergency use.
†Use packing box shown on Drawing 76-8-8 for friction primer Mod. '14.
NOTES.—Other models on hand in coast defenses. No ammunition to be manufactured for these guns, as a supply of ammunition equal to the accuracy life of the guns is on hand.

AMMUNITION (SEPARATE LOADING) FOR 155-MM GUN, MODEL 1917, '17A1 AND 1918MI (FRENCH—G. P. F.)

155-mm

[illegible]

S. = Issue.
M. = Manufacture.
C. S. C. = Cartridge storage case.
P. D. = Point detonating.
H. E. = High explosive.
Comb. = Combination time and percussion.

N. H. = Nonhygroscopic powder.
 B. & I. = Base and increment.
 * Some shell on hand are loaded with 50/50 or 80/20 amatol.
 † Mk. III fuze with "interrupter" shown on Drawing 73-2-39 should be used with adapter and booster Mk. III AM1 or Mk. III AM2, Drawing 73-1-105.
 □ Some pyro powder charges are on hand available for issue.

‡ Use eyebolt lifting plug, Drawing 75-14-42.
 ¶ A charge of 25.2 lb. of pyrocellulose powder may be used as substitute standard.
 ↓ Where P. D. fuze M46 is not available the Mk. III P. D. fuze, Drawing 73-2-39, or M35 P. D. fuze, Drawing 73-2-08, may be substituted.

ISSUED—August 15, 1924.
REVISED—July 1, 1937.

ISSUED—March 1, 1932
REVISED—July 1, 1937
Sheet No. 9A

AMMUNITION (SEPARATE LOADING) FOR 8-INCH HOWITZERS, MK. VI (BETH.), MK. VII (BRITISH), AND MK. VIII½

8-inch

NOTES	MARK OR MODEL OF HOW.	PROJECTILE										ADAPTER AND BOOSTER		FUZE			BASE COVER		CARTRIDGE BAG		PROPELLING CHARGE		PRIMER*			PACKING						ASSEMBLY NO.																																																																																																																																																																																																																																																																																																																																																																																												
		Kind	Type	Mk. or Mod.	Drg. No.	Wt. loaded and fuzed	CHARGE		Material	FORGING OR CASTING		Mk. No.	Drg. No.	Desig- nation	Type	Drg. No.	Type	Drg. No.	Mk. or Type	Drg. No.	Nominal weight	Kind □	Type	Mk. or Mod.	Drg. No.	Fuze	Booster	C. S. C.	Primer	Projectile																																																																																																																																																																																																																																																																																																																																																																																														
							Wt.	Kind		Type	Drg. No.															Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.		Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.

S. = Issue.
M. = Manufacture.
P. D. = Point detonating.
C. S. C. = Cartridge storage case.
N. H. = Nonhydroscopic powder.

* Howitzers equipped with British firing mechanism take the "T" model friction primer Mk. IV, Drawing 74-4-26. This applies especially to Mk. VII and some Mk. VI howitzers. Mk. VIII½ howitzers are all equipped for 21-grain percussion primer Mk. IIA.
† Some shell on hand are loaded with 80/20 amatol.
‡ Use eyebolt lifting plug, Drawing 75-14-42.
□ Some pyro powder charges are on hand available for issue.
♣ Where P. D. fuze M46 is not available the Mk. III P. D. fuze, Drawing 73-2-39, or the M35 P. D. fuze, Drawing 73-2-98, may be used.

8-inch

S = Issue. M. = Manufacture. P. D. = Point detonating. B. D. = Base detonating. H. E. = High explosive. A. P. = Armor piercing. C. I. = Cast iron.	C. S. C. = Cartridge storage case. B. & I. = Base and increment. S. S. = Single section. N. C. = Nitrocellulose or pyrocellulose powder. N. H. = Nonhygroscopic powder.	* Guns in emplacements fitted with electrical equipment use electric primer for seacoast cannon, Drawing 74-5-18, with friction primer for emergency use. † Use packing box shown on Drawing 76-8-8 for friction primer Mod. '14 for seacoast cannon. ‡ Some shell on hand are loaded with 80/20 amatol. △ Approximately 12,000 loaded 260-pound A. P. projectiles have been released by the Navy Department. To date about 5,000 have been received fuzed with Mk. II tracer-detonator fuzes.	§ High-explosive shell when issued to seacoast fortifications to be 100 percent Mk. IV Star fuzed. Use eyebolt lifting plug, Drawing 75-14-42, and rope grommet, Drawing 75-14-43. ¶ Some earlier models are on hand in the coast defenses. □ Some pyro powder charges are on hand available for issue.	ISSUED—August 15, 1924. REVISED—July 1, 1937.	Sheet No. 11
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Sheet No. 13

U. S. GOVERNMENT PRINTING OFFICE 10100

AMMUNITION (SEPARATE LOADING) FOR 12-INCH MORTARS, MODELS '90, '90MI, '08, AND '12

12-inch

NOTES	CAN- NON	COM- PLETE ROUND DRG. No.	PROJECTILE										ADAPTER AND BOOSTER		FUZE			BASE COVER		PROPELLING CHARGE				PRIMER*			PACKING						ASSEMBLY No.					
			Kind	Type	Mk. or Mod.	Drg. No.	Wt. loaded and fuzed	CHARGE		Material	FORGING		Mk. No.	Drg. No.	Design- ation	Type	Drg. No.	Type	Drg. No.	CARTRIDGE BAG		Nominal weight charge	Kind □	Type	Mk. or Mod.	Drg. No.	Fuze	BOOSTER	C. S. C.	PRIMER	PROJECTILE OR ROUND							
								Wt.	Kind		Type	Drg. No.								Mk. or Type†	Drg. No.						Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.		Drg. No.	Drg. No.	Drg. No.	Drg. No.	Shipped
§S.....	'90, '08.		Shell.....	H. E.	VI.....	75-10-27	Lb. 700.0	Lb. 86.40	"D".....	Steel.....	Forg.	75-20-21			Mk. V	B. D.	73-2-62	XI..	75-14-37	Al. pt.	71-9-78	Lb. 63.00	N. H.	Elec.		74-5-18	76-7-525		76-5-52	76-8-8	76-3-9	Fuzed.....	1					
S.....	'90, '08.		Shell.....	H. E.	VIA.....	75-10-26	692.9	103.40	TNT	Steel.....	Forg.	75-20-21	IIA.	73-1-122	M46...	P. D.‡	73-2-126	XI..	75-14-37	Al. pt.	71-9-98	63.00	N. H.	Elec.		74-5-18	76-7-614	76-7-257	76-5-52	76-8-8	(||)	Unfuzed ..	14					
S.....	'90, '08.		Shell.....	H. E.	VIA.....	75-10-26	692.3	103.40	TNT	Steel.....	Forg.	75-20-21	IIA.	73-1-122	Mk. IV	P. D.	73-1-81	XI..	75-14-37	Al. pt.	71-9-78	63.00	N. H.	Elec.		74-5-18	76-7-246	76-7-257	76-5-52	76-8-8	(||)	Unfuzed ..	3					
M.....	'90, '08.		Shell.....	H. E.	VIII....	75-12-41	700.0	87.57	"D".....	Steel.....	Forg.	75-20-44			Mk. V.	B. D.	73-2-62	XI..	75-14-37	Al. pt.	71-9-78	63.00	N. H.	Elec.		74-5-18	76-7-525		76-5-52	76-8-8	76-3-9	Fuzed.....	4					
M.....	'90, '08.		Shell.....	H. E.	XI.....	75-12-42	712.0	118.25	TNT	Steel.....	Forg.	75-20-36	IIA.	73-1-122	M46...	P. D.‡	73-2-126	XI..	75-14-37	Al. pt.	71-9-78	63.00	N. H.	Elec.		74-5-18	76-7-245	76-7-257	76-5-52	76-8-8	(||)	Unfuzed ..	15					
M.....	'90, '08.		Shell.....	H. E.	XI.....	75-12-42	712.0	118.25	TNT	Steel.....	Forg.	75-20-36	IIA.	73-1-122	Mk. IV	P. D.	73-1-81	XI..	75-14-37	Al. pt.	71-9-78	63.00	N. H.	Elec.		74-5-18	76-7-246	76-7-257	76-5-52	76-8-8	(||)	Unfuzed ..	6					
°M. & S..	'90, '08.		Shell.....	D. P.	'11A.....	75-12-24	700.0	24.16	"D".....	Steel.....					Mk. X.	B. D.	73-2-74	XI..	75-14-37	Al. pt.	71-9-78	63.00	N. H.	Elec.		74-5-18	76-7-552		76-5-52	76-8-8	76-3-9	Fuzed.....	7					
°M. & S..	'12.....		Shell.....	D. P.	'11A.....	75-12-24	700.0	24.16	"D".....	Steel.....					Mk. X.	B. D.	73-2-74	XI..	75-14-37	B. & I.	71-9-25, 26	89.00	N. C⊕	Elec.		74-5-18	76-7-552		76-5-52	76-8-8	76-3-9	Fuzed.....	8					
¶S.....	'90, '08.		Shell.....	D. P.	'98.....	75-12-3	824.0	32.68	"D".....	Steel.....					Mk. X	B. D.	73-2-74	XI..	75-14-37	Al. pt.	71-9-78	58.00	N. H.	Elec.		74-5-18	76-7-552		76-5-52	76-8-8	76-3-9	Fuzed.....	9					
¶S.....	'90, '08.		Shell.....	D. P.	'98.....	75-12-4	1,046.0	58.35	"D".....	Steel.....					Mk. X.	B. D.	73-2-74	XI..	75-14-37	Al. pt.	71-9-78	47.00	N. H.	Elec.		74-5-18	76-7-552		76-5-52	76-8-8	76-3-9	Fuzed.....	10					
¶S.....	'12.....		Shell.....	D. P.	'98.....	75-12-4	1,046.0	58.35	"D".....	Steel.....					Mk. X.	B. D.	73-2-74	XI..	75-14-37	B. & I.	71-9-25, 26	60.00	N. C⊕	Elec.		74-5-18	76-7-552		76-5-52	76-8-8	76-3-9	Fuzed.....	11					
¶M. & S..	'90, '08.		Shell.....	D. P.	XXVIII..	75-12-46	1,046.0	58.52	"D".....	Steel.....					Mk. X.	B. D.	73-2-74	XI..	75-14-37	Al. pt.	71-9-78	47.00	N. H.	Elec.		74-5-18	76-7-552		76-5-52	76-8-8	76-3-9	Fuzed.....	12					
¶M. & S..	'12.....		Shell.....	D. P.	XXVIII..	75-12-46	1,046.0	58.52	"D".....	Steel.....					Mk. X.	B. D.	73-2-74	XI..	75-14-37	B. & I.	71-9-25, 26	60.00	N. C⊕	Elec.		74-5-18	76-7-552		76-5-52	76-8-8	76-3-9	Fuzed.....	13					
S. & M....	All.....		Dummy	Drill	I.....	72-1-34	700.0			C. I., bronze, and steel.										S. S....	72-2-37	{33, 65, or 85}		Elec.		74-5-18				76-8-8	76-3-9	Complete.	A					
S. & M....	All.....		Dummy	Drill		72-1-4	1,046.0			C. I., bronze, and steel.										S. S....	72-2-37	{33, 65, or 85}		Elec.		74-5-18				76-8-8	76-3-9	Complete.	B					
S.....	'90, '08.		Target practice.		'07.....	75-12-1	824.0			Cast iron....	Cast.									Al. pt.	71-9-78	58.00	N. H.	Elec.		74-5-18			76-5-52	76-8-8	△	Complete.	C					
S. & M....	'90, '08.		Target practice.		'07.....	75-12-2	1,046.0			Cast iron....	Cast.									Al. pt.	71-9-78	47.00	N. H.	Elec.		74-5-18			76-5-52	76-8-8	△	Complete.	D					
S. & M....	'12.....		Target practice.		'07.....	75-12-2	1,046.0			Cast iron....	Cast.									B. & I.	71-9-25, 26	60.00	N. C⊕	Elec.		74-5-18			76-5-52	76-8-8	△	Complete.	E					
S. & M....	'90, '08.		Target practice.		'12.....	75-12-22	700.0			Cast iron....	Cast.									Al. pt.	71-9-78	63.00	N. H.	Elec.		74-5-18			76-5-52	76-8-8	△	Complete.	F					
S. & M....	'12.....		Target practice.		'12.....	75-12-22	700.0			Cast iron....	Cast.									B. & I.	71-9-25, 26	89.00	N. C⊕	Elec.		74-5-18			76-5-52	76-8-8	△	Complete.	G					

S. = Issue.
M. = Manufacture.
P. D. = Point detonating.
B. D. = Base detonating.
N. H. = Nonhygroscopic powder.
N. C. = Nitrocellulose or pyro-
cellulose powder.

Al. pt. = Aliquot part.
B. & I. = Base and increment.
C. S. C. = Cartridge storage case.
S. S. = Single section.
A. P. = Armor piercing.
D. P. = Deck piercing.

*Guns in emplacements fitted with electrical equipment use electric primer for seacoast
cannon, Drawing 74-5-18, with friction primer Mod. '14 for emergency use.
†Charges issued since January 1, 1923, approximately, for Mod. '90-'08 mortars have been
aliquot part charges. Those issued prior were base and increment.
‡Use packing box shown on Drawing 76-8-8 for friction primer Mod. '14.
§Shipped uncased with rope grommet.
[§]N. H. powder under development.
¶Where P. D. fuze M46 is not available the M35 P. D. fuze, Drawing 73-2-98, or the Mk. III
P. D. fuze, Drawing 73-2-39, may be used.
□Some pyro powder charges are on hand available for issue.

§With modified band for mortar.
[§]Use eyebolt lifting plug, Drawing 75-14-42, and rope grom-
met, Drawing 75-14-43, provided ogive is not attached
to shell, otherwise use crate, Drawing 76-3-9.
¶D. P. shell issued since January 1, 1923, approximately,
have been fitted with Mk. X B. D. fuze. Those issued
prior were equipped with earlier types of fuzes.
*See also Drawings 75-12-29 and 30.
NOTE.—For igniter protector cap see Drawing 71-9-34.

ISSUED—August 15, 1924.

REVISED—July 1, 1937.

Sheet No. 15

AMMUNITION (SEPARATE LOADING) FOR 12-INCH SEACOAST GUNS, MODELS '88, '88MI, '88MI½, '88MII, '95, '95MI, AND '00

12-inch

NOTES	CAN- NON	COM- PLETE ROUND DRG. No.	PROJECTILE										ADAPTER AND BOOSTER		FUZE			BASE COVER		PROPELLING CHARGE				PRIMER			PACKING						ASSEMBLY NO.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
			Kind	Type	Mk. or Mod.	Drg. No.	Wt. loaded and fuzed	CHARGE		Material	FORGING		Mk. No.	Drg. No.	Design- ation	Type	Drg. No.	Type	Drg. No.	CARTRIDGE BAG		Nomi- nal weight charge	Kind	Type*	Mk. or Mod.	Drg. No.	FUZE Drg. No.	BOOSTER Drg. No.	C. S. C. Drg. No.	PRIMER		PROJECTILE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
								Wt.	Kind		Type	Drg. No.								Mk. or Type	Drg. No.									Drg. No.	Drg. No.	Drg. No.		Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.

S. = Issue.
M. = Manufacture.
P. D. = Point detonating.
B. D. = Base detonating.
C. S. C. = Cartridge storage case.
B. & I. = Base and increment.
M. S. = Multisection.
H. E. = High explosive.

A. P. = Armor piercing.
N. C. = Nitrocellulose or pyrocellulose powder.
N. H. = Nonhygroscopic powder.
* Guns in emplacements fitted with electrical equipment use electric primer for seacoast cannon, Drawing 74-5-18, with friction primer Mod. '14 for emergency use.
† Use packing box shown on Drawing 76-8-8 for friction primer Mod. '14.
‡ For use against land targets (railway mount).
§ Shipped uncured with rope grommet.
|| For other details of manufacture see Drawings 75-10-19 and 20. Earlier models are also on hand in seacoast defenses.

† A. P. shot and shell issued since January 1, 1923, approximately, have been fitted with Mk. X. B. D. fuzes. Those issued prior were equipped with earlier types of fuzes.
° Single section charges shown on Drawings 71-9-16 and 17 were issued prior to 1920.
φ Where P. D. fuze M46 is not available the M35 P. D. fuze, Drawing 73-2-88, or the Mk. III P. D. fuze, Drawing 73-2-89, may be used.
Δ Approximately 10,000 loaded and fuzed projectiles received from the Navy Depr. (Mk. VII; VIII; VIII Mods. 1, 4, 5; Mk. XII; Mk. XIII; Mk. XIV Mods. 4, 5B, 5D; 8; Mk. XV Mods. 1, 2, 3, and 5).
□ Multisection charges shown on Drawing 71-9-76 are in storage.
ψ Some pyro powder charges are on hand available for issue.

** For other details of manufacture see Drawing 75-10-22. Earlier models are also on hand in seacoast defenses.
†† For other details of manufacture see Drawings 75-10-35, 36, 37, 39, 40, 42, 43, 44, and 45.
NOTE.—For igniter protector cap see Drawing 71-9-34.

ISSUED—August 15, 1924.

REVISED—July 1, 1937.

Sheet No. 16

AMMUNITION (SEPARATE LOADING) FOR 14-INCH SEACOAST GUNS, MODELS '07, '07MI, '09, '10, '10MI, '20MI, AND MH

14-in. Gun

NOTES	CANNON	COMPLETE ROUND Drg. No.	PROJECTILE										FUZE			BASE COVER		CARTRIDGE BAG		PROPELLING CHARGE		PRIMER			PACKING					ASSEMBLY No.																																																																																																																																																																																																																																																																																																																																																																																															
			Kind	Type	Mk. or designation	Drg. No.	Wt. loaded and fuzed	CHARGE		Material	FORGING OR CASTING		Mk. or Mod.	Type	Drg. No.	Type	Drg. No.	Mk. or Type*	Drg. No.	Nominal weight	Kind	Type†	Mk. or Mod.	Drg. No.	FUZE		C. S. C.	PRIMER	PROJECTILE OR ROUND																																																																																																																																																																																																																																																																																																																																																																																																
								Wt.	Kind		Type	Drg. No.													Drg. No.	Drg. No.			Drg. No.		Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No

S. = Issue.

M. = Manufacture.

B. D. = Base detonating.

C. S. C. = Cartridge storage case.

N. C. = Nitrocellulose or pyrocellulose powder.

Elec. = Electric.

Comb. = Combination electric and percussion.

S. S. = Single section.

H. E. = High explosive.

A. P. = Armor piercing.

*Charges issued since 1920 for 14-inch guns have been multisectional charges.

Those issued prior were single-section charges.

†Guns in emplacements fitted with electrical equipment use electric primer for seacoast cannon, Drawing 74-5-18, with friction primer for emergency use.

‡Use packing box shown on Drawing 76-8-8 for friction primer Mod. '14.

N. H. = Nonhygroscopic powder.

§Common steel shell are normally assigned to railroad mounts only, but may be used in certain cases for land defense purposes with fixed mounts.

¶A. P. shot and shell issued since January 1, 1923, approximately, have been fitted with Mk. X B. D. fuze. Those issued prior were equipped with earlier types of fuzes.

* See also Drawings 75-11-32, 36, and 39.

† See also Drawings 75-11-12, 15, 17, and 44.

‡ See also Drawings 75-11-11 and 16.

□ Some pyro powder charges are on hand available for issue.

¶A supply of approximately 700 Class B Navy projectiles, Mk. IX Mod. 2, Drawing 54671, are on hand to be used as a substitute for 75-11-48 for target practice.

△Shipped uncased with rope grommet.

NOTE.—For igniter protector cap see Drawing 71-9-34.

ISSUED—August 15, 1924.

REVISED—July 1, 1937.

Sheet No. 17

AMMUNITION (SEPARATE LOADING) FOR 16-INCH HOWITZER, MODEL 1920

16-in. How.

NOTES	CANNON	COMPLETE ROUND DRG. NO.	PROJECTILE										FUZE			BASE COVER		CARTRIDGE BAG		PROPELLING CHARGE		PRIMER			PACKING					ASSEMBLY NO.																																																																																																																																																																																																																																																																																																																																																																																																																													
			Kind	Type	Designation	Drg. No.	Wt. loaded and fuzed	CHARGE		Material	FORGING OR CASTING		Designation	Type	Drg. No.	Type	Drg. No.	Type	Drg. No.	Nominal weight	Kind	Type	Mk. or Mod.	Drg. No.	FUZE	CASE OR C. S. C.	PRIMER	PROJECTILE OR ROUND																																																																																																																																																																																																																																																																																																																																																																																																																															
								Wt.	Kind		Type	Drg. No.													Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.		Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg. No.	Drg

M. = Manufacture.
S. = Issue.
B. & I. = Base and increment.
N. C. = Nitrocellulose or pyrocellulose powder.
Comb. = Combination electric and percussion.
φ Unserviceable A. P. projectiles may be used for target practice in lieu of cast-iron projectiles.
N. H. = Nonhygroscopic powder.

B. D. = Base detonating.
C. S. C. = Cartridge storage case.
Δ Shipped uncrated with rope grommet.
□ Some pyro powder charges are on hand available for issue.

For igniter protector cap see Drawing 71-9-34.

ISSUED—August 15, 1924.
REVISED—July 1, 1937.

ISSUED—August 15, 1924.
REVISED—July 1, 1937.

Sheet No. 20

DEMOLITION BOMBS—SMALL

[illegible]

Sheet No. 22

Sheet No. 22A

PRACTICE AND DEMONSTRATION BOMBS

PROPERTY OF C. H. YUST, JR.

NOTES	BOMB										ADAPTER-BOOSTERS				FUZES				PRIMER-DETONATORS			PACKING						ASSEMBLY NO.			
	Type	Drg. No.	Wt. loaded and fuze	EXPL. CHARGE			INERT CHARGE			Material body	NOSE		TAIL		NOSE		TAIL		NOSE	TAIL		BOMB Drg. No.	FUZE			PRIMER-DETONATORS					
				Wt.	Kind	Cont.	Wt.	Kind	Cont.		Drg. No.	Designation	Drg. No.	Designation	Drg. No.	Designation	Drg. No.	Designation		Designation	Drg. No.		Nose Drg. No.	Tail Drg. No.	Nose Drg. No.	Tail Drg. No.	Cont. Drg. No.				
S. & M. ^b	Demonstration, 50-lb., Mk. I.	82-3M-1	Lb. 52-59	Lb. 0.3	Tetryl	Booster	{ 400 cu. in. }	F. M.	D1365	Steel sheet	{ B6769 C7859 }					73-8F-1	Mk. XIV				Mk. I IIB φ.	82-3-119	76-16-12	76-16-111		76-8-26				1	
S. & M. ^c	Practice, 25-lb., Mk. I.	82-3-11	24	2	Black powder	82-3-124	Lb. 10	Sand		Steel sheet			73-8G-1	Practice, Mk. B1.				73-8G-1	Practice, Mk. I.		(§)	73-8G-1	76-16-7		*76-16-45		76-16-18	76-16-18		2	
S. & M. ^c	Practice, 50-lb., Mk. I.	82-3-12	50.5	2	Black powder	82-3-124	23	Sand		Steel sheet			73-8G-1	Practice, Mk. B1.				73-8G-1	Practice, Mk. I.		(§)	73-8G-1	76-16-8		*76-16-45		76-16-18	76-16-18		3	
S.	Demolition, 50-lb., Mk. I.	82-3-12	50.5	25	Lyconite or amatol.					Steel sheet			82-11-1	Mk. B1				82-11-1	I		(**)	82-11-1	76-16-8			76-16-8		76-16-18	76-16-18		4
S. & M. ^c	Practice, 100-lb., Mk. I.	82-3-124	112	2†	Black powder	82-3-124	63	Sand		Steel sheet			73-8G-1	Practice, Mk. B1.				73-8G-1	Practice, Mk. I.		(§)	73-8G-1	76-16-6		*76-16-45		76-16-18	76-16-18		5	
S. & M. ^c	Practice, 300-lb., Mk. I.	82-3-39	290	4	Black powder	82-3-124	144	Sand		Cast steel, steel sheet.			73-8G-1	Practice, Mk. B1.				73-8G-1	Practice, Mk. I.		(§)	73-8G-1	76-16-16		*76-16-45		76-16-18	76-16-18		6	
S.	Demolition, 100-lb., Mk. I.	82-3-13	112	65	Lyconite or amatol.					Steel sheet			82-11-1	Mk. B1				82-11-1	I		(**)	82-11-1	76-16-6			76-16-6		76-16-18	76-16-18		7
S. & M. ^b	Practice, 40-lb., Mk. I.	82-3-128	22	4	Black powder	82-3-124				Steel sheet					82-3-47	Mk. XVII M1.				(***)		76-16-12	76-16-29		(***)					8	
S. & M. ^c	Practice, 40-lb., Mk. II.	82-3-128	23	4	Black powder	82-3-124				Steel sheet, zinc sheet.					82-3-47	Mk. XVII M1.				(***)		76-16-11	76-16-29		(***)					9	
S. & M. ^d	Practice, 17-lb., Mk. II.	82-3-121	16	1.06	Black powder					Steel forg.					82-3-46	Mk. XI						76-16-44								10	
S. & M. ^c	Practice M36	82-0-22	2.7	.03	Black powder	82-3-205				Die cast metal.												76-16-193								12	
S. & M.	Practice, 17-lb., M37.	82-0-26		.75	Smoke charge	78-2-175				Cast iron					73-8-22	M104						76-16-195								13	
S.	Practice, 100-lb., M38.	82-0-23	92	1.9	F. S.	82-3-218		W e t sand.		Steel sheet																				14	
S. & M.	Practice, 100-lb., M38A1.		95	2.7	Black powder			Sand		Steel sheet																				15	
ΔS.	Practice, 100-lb., M39.	82-0-25	115	2†	Black powder	82-3-124	62	Sand		Steel sheet	82-3-226	M105	82-3-227	M106	73-8C-1	Mk. VII M1	73-8B-1	VM1A	(*)	(*)		76-16-6	76-16-91	76-16-90						16	

S.=Issue.
M.=Manufacture.

* From stock of unloaded demolition bombs, Mk. I series.
** Primer-detonator assembly, Mk. I.
*** .22 cal. commercial blank cartridge which is part of fuze.
† 4 lb (2 standard 2-lb. charges) authorized under conditions where 2-lb. charge gives insufficient visibility.
‡ An 8-ounce bottle containing smoke mixture, fitted in fin assembly.
§ Primer-detonator assembly, Mk. I, practice.
¶ Packing box for tail adapter-boosters.
Δ To be made from Mk. I demolition bomb bodies as long as supply lasts.

φ Mk. II, instantaneous primer-detonator, Drawing 75-14-97, may be used when Mk. IIB or Mk. IIC is not available.
• Held in place by disk and spacer.
• From stock of 40-lb., Mk. I, empty incendiary bombs.
• From stock of 40-lb., Mk. II, empty incendiary bombs.
• From stock of empty 17-lb., Mk. II, frag. bombs.
• High altitude practice bomb, M36, uses cartridge M4 and weighs 2.8 pounds.
† Mk. VII MII fuze may be used if supply of Mk. VI M1 fuzes becomes exhausted.
• No. 24-gage shot-gun shell, blank loaded.

NOTES.—Assemblies 1 to 10, inclusive, each require one (1) swivel loop, Drawing 82-3-135.
Assembly No. 1 requires in addition one (1) safety clip, Drawing 82-3-155.
Assemblies 1 to 10, inclusive, each require in addition to the above an 0.036 dia. hard drawn, low brass wire of the following lengths:
Assemblies Nos. 1, 3, and 4, 28 inches.
Assembly No. 2, 21 inches.
Assemblies Nos. 5, 6, and 7, 32 inches.
Assemblies Nos. 8 and 9, 20 inches.
Assembly No. 10, 17 inches.

ISSUED—September 6, 1924.
REVISED—July 1, 1937.

GRENADES—HAND AND RIFLE

NOTES	NOMENCLATURE	COM- PLETE ROUND DRG. NO.	DRG. NO.	WEIGHT LOADED AND FUZED	CHARGE		FUZE ASSEMBLY		RIFLE RODS	CARTRIDGE		PACKING					REMARKS	ASSEMBLY NO.
												GRENADE		FUZE ASSEMBLY	RIFLE RODS AND BLANK CARTRIDGE	SHIPPED		
												Box	Fiber container	Box	Box			
					Drg. No.	Drg. No.	Drg. No.	Drg. No.										
S	Grenade, hand, frag., Mk. II		82-1-15	Oz. 22.0	Oz. 1.85	TNT	M5	82-1-30				76-16-1		76-16-40		Unfuzed	Wrench needed	1
S. & M	Grenade, hand, frag., Mk. II		82-1-15	21.0	.74	E. C	M10	82-1-46				76-16-187	76-1-250	76-16-189		Fuzed		2
S. & M	Grenade, hand, irritant (C.N.-D. M.), M6	82-0-9	82-1-58	17.0	.64	C. N.-D. M.	M200	82-1-56				76-16-188	76-1-252	76-16-189		Fuzed		9
S. & M	Grenade, hand, tear (C. N.), M7	82-0-10	82-1-59	17.0	.64	C. N.	M200	82-1-56				76-16-188	76-1-252	76-16-189		Fuzed		10
S. & M	Grenade, hand, smoke (H. C.), M8	82-0-11	82-1-60	28.0	1.29	H. C.	M200	82-1-56				76-16-188	76-1-252	76-16-189		Fuzed		11
†S	Grenade, hand, practice, Mk. II		82-1-15	20.0	Empty		M5	82-1-30				76-16-187	76-1-250	76-16-40		Fuzed		4
S. & M	Grenade, hand, practice, Mk. II	82-0-1	82-1-48	20.5	0.5	Black powder.	M10	82-1-46				76-16-187	76-1-250	76-16-189		Fuzed		5
††S	Grenade, hand, dummy, Mk. II		82-1-15	22.0								76-16-114				Complete		6
*||S	Grenade, hand, dummy, Mk. I		82-1-7	22.0								76-16-1				Complete		7
				</														

S. = Issue.
M. = Manufacture.
E. C. = Commercial blank fire powder.
† Fragmentation hand grenade, Mk. II, bodies with fuze (with live cap), without detonator, may be used as dummy grenades. Bodies alone may be used if fuzes are not available.

† Plug in grenade body omitted.
|| To be propelled from U. S. rifle (cal. .30).
* Dummy grenade, Mk. I, may be issued for practice until supply is exhausted.
φ Some grenades, rifle, Lach. (C. N.) Mk. II, have been packed with fuzes in separate boxes.
NOTE.—A fragmentation rifle grenade is under development.

SUBCALIBER AMMUNITION FOR FIELD ARTILLERY AND SEACOAST GUNS AND MORTARS

NOTES	CANNON SUBCALIBERED	SUBCALIBER GUN	COMPLETE ROUND DRAWING NO.	PROJECTILE									FUZE			CARTRIDGE CASE		WEIGHT OF PROPELLING CHARGE	PRIMER			PACKING BOX			ASSEMBLY NO.	REMARKS	
				Kind	Type	Designation	Drg. No.	Wt. loaded and fuzed	CHARGE		Material	FORGING OR CASTING		Designation	Type	Drg. No.	Designation		Drg. No.	Type □	Designation	Drg. No.	PRIMER				ROUND
		Wt.							Kind	Type		Drg. No.	Drg. No.										Drg. No.	Drg. No.			Drg. No.
S.....	75-mm, 1897	φ 1.22		Bullet																				1			
¶S. & M....	37-mm, 1916, tank	.30																									
¶S. & M....	2.24-in., Mk. II., Br. (6-pdr.)	.30		Bullet			B10986	Gra. 174								B45	50			A131		76-6-44	Fixed		2		
S.....	3" (15-pdr.) M. '02	×.30																									
S. & M....	3" (15-pdr.) M. '03	×.30		Bullet			B10986	174								B6145	35			A34367		76-6-44	Fixed		2A		
☒S. & M....	2.95-in., V. M	37-mm																									
☒S. & M....	75-mm pack how	37-mm																									
S. & M....	75-mm, '16 and '17	37-mm																									
☒S. & M....	75-mm, 1897, & '97AL	37-mm		Shell	L. E.	Mk. I.	75-2-166	1.097	0.034	Black powder.	Steel	Bar	Stock	Mk. I	B.P.	73-2-42	Mk. IA2	71-2-73	500	20-gr. perc.	M23	74-2-37	76-8-53	76-1-38	Fixed	3	*
S. & M....	105-mm how., M2	37-mm																									
☒S. & M....	155-mm how	37-mm																									
☒S. & M....	155-mm gun	37-mm																									
S. & M....	6-in., 1897, '97MI, '08, '08MI and MII.	1.457-in																									
S. & M....	6-in., 1900 and 1903	1.457-in																									
S. & M....	8-in., 1888 gun	1.457-in																									
S. & M....	10-in., 1888 and 1895	1.457-in																									
S. & M....	10-in., 1900	1.457-in		Shell			75-13-2	1.057			Steel	Bar	Stock				Mk. III-A2.	71-2-48	1,110	20-gr. ignit.	M25	74-3-13		76-1-4	Fixed	4	
S. & M....	12-in., 1888 and 1895	1.457-in																									
S. & M....	12-in., 1900	1.457-in																									
S. & M....	14-in., '07, '07MI, '09, '10MI, '20.	1.457-in																									
S. & M....	16-in., 1895	1.457-in																									
S. & M....	12-in. mortar, '90, '90MI, '08, and '12.	2.95-in	75-1-43	Shot	Solid		75-13-6	18.00			Steel or cast iron.							71-2-11	(‡)	100-gr. ignit.	M24A1	74-3-11		76-1-34	Fixed	5	
☒S. & M....	12-in., 1895, '95 MI	75-mm																									
△S. & M....	14-in., 1910 MI	75-mm																									
☒S. & M....	14-in., M1920, MII	75-mm		Shell	H. E.	Mk. I.	75-2-164	12.18	1.86	Sand	Steel	Forg	75-20-1	Mk. IV**	P.D.	73-1-81		71-2-71	Lb. 1.72	100-gr. perc.	M1B1	74-2-32	76-8-29	76-1-66	Fixed	6	
☒S. & M....	16-in., 1919, MII and MIII.	75-mm																									

U. S. GOVERNMENT PRINTING OFFICE 10100

S. = Issue.
M. = Manufacture.
L. E. = Low explosive.
H. E. = High explosive.

Perc.=Percussion.
Ignit.=Igniting.
B. P.=Base percussion.
P. D.=Point detonating.

‡ Issued in three zones:—

Zone 1.—550 f/s.,	4¼ oz.
Zone 2.—625 f/s.,	5 oz.
Zone 3.—700 f/s.,	6 oz.

Δ Mk. I shrapnel, Drawing 75-2-103, may be used if available.
 × For issue to National Guard only.
 # Barrel chambered same as U. S. rifle M 1898.

*Part of fuze only used to close cavity.
 ↓ Barrel shown on Drawing 42-5-5; adapter on Drawing 63-36-1.
 †Subcaliber gun mounted on Mod. 1917 barbetta carriage.
 □ Rounds with igniting primers take, in addition, the regular service primer for that weapon.
 †Older type ammunition M1906, Drawing B44, may be used.
 ‡22-cal. long rifle, commercial ammunition used. ☒ Exterior mount.
 *Use Mk. IA1 cartridge cases until supply is exhausted.
 †Use Mk. IIIA1 cartridge cases until supply is exhausted.

ISSUED—August 29, 1924.

REVISED—July 1, 1937.

Sheet No. 27

PROPERTY OF C. H. YOUNG JR

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