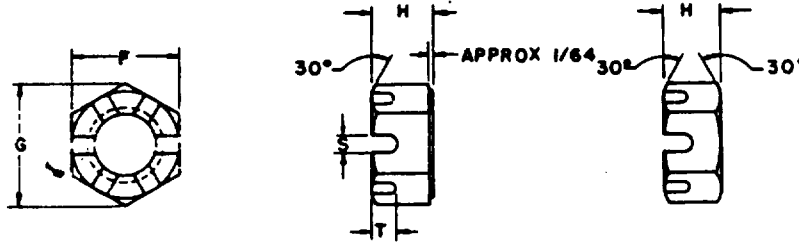


REVIEWER: MO, SH, WP, WC, IS, 69
 USER: CL, MC, YD



FED. SUP CLASS
 5310

NOMINAL SIZE OR BASIC MAJOR DIAMETER OF THREAD	WIDTH ACROSS FLATS			WIDTH ACROSS CORNERS		THICKNESS			SLOT	
	F			C		H			S	T
	NOM	MAX	MIN	MAX	MIN	NOM	MAX	MIN	WIDTH	DEPTH
1/4 .2500	7/16	.4375	.428	.505	.488	7/32	.226	.212	.078	.094
5/16 .3125	1/2	.5000	.489	.577	.557	17/64	.273	.258	.094	.094
3/8 .3750	9/16	.5625	.551	.650	.628	21/64	.337	.320	.125	.125
7/16 .4375	11/16	.6875	.675	.794	.768	3/8	.385	.365	.125	.156
1/2 .5000	3/4	.7500	.736	.866	.840	7/16	.448	.427	.156	.156
9/16 .5625	7/4	.8750	.861	1.010	.982	31/64	.496	.473	.156	.148
5/8 .6250	15/16	.9375	.922	1.083	1.051	35/64	.559	.535	.188	.219
3/4 .7500	1-1/8	1.1250	1.088	1.299	1.240	41/64	.665	.617	.188	.250
7/8 .8750	1-5/16	1.3125	1.269	1.516	1.447	3/4	.776	.724	.188	.250
1 1.0000	1-1/2	1.5000	1.450	1.732	1.653	55/64	.887	.831	.250	.281
1-1/8 1.1250	1-11/16	1.6875	1.631	1.949	1.859	31/32	.999	.939	.250	.344
1-1/4 1.2500	1-7/8	1.8750	1.912	2.165	2.066	1-1/16	1.094	1.030	.312	.375
1-3/8 1.3750	2-1/16	2.0625	1.994	2.382	2.273	1-11/64	1.206	1.138	.312	.375
1-1/2 1.5000	2-1/4	2.2500	2.175	2.598	2.480	1-9/32	1.317	1.245	.375	.438

MATERIAL: Steel, Carbon, Grade B and C; Steel, Corrosion-Resisting, 300 series; and Brass, Naval in accordance with procurement specification.

PROTECTIVE COATING OR TREATMENT: Cadmium Plate, Black Oxide, and Passivation treatment in accordance with the procurement specification.

DIMENSIONS: All dimensions are in inches unless otherwise specified.

PART NUMBER: The MS part number consists of the MS number, plus the dash number.
 Example: MS35692-1.

THREADS: The threads shall be in accordance with Screw-Thread Standards for Federal Services, Handbook H-25.

- NOTES:**
- (1) Reference documents shall be of the issue in effect on date of invitations for bid.
 - (2) For design feature purposes, this standard takes precedence over procurement documents referenced herein.
 - (3) Dimensions and tolerances are in accordance with ASA B18.2.
 - (4) For new design use part numbers in Table II.
 - (5) For cancelled part numbers see Table III.
 - (6) For maintenance use inactivated part numbers of Table IV.
 - (7) For interchangeability between the cancelled (Grade A, uncoated) nuts and the superseding inactivated (Grade B, uncoated) nuts see Table V.
 - (8) For interchangeability of cancelled or inactivated and new part numbers see Table VI.

ⓑ ENTIRE STANDARD REVISED

P.A. WC Other Cost SH 69	TITLE NUT, SLOTTED-HEXAGON UNC-2B AND UNF-2B	MILITARY STANDARD MS 35692
PROCUREMENT SPECIFICATION FF-N-836	SUPERSEDES: BBGX1, 2, 3, BBHX1, 2, 2.1, 3, BBHX3.1, 3.2, 3.3, 5, BUNX8, 9	SHEET 1 OF 6

This military standard has been approved by the Department of Defense and is mandatory for use by all Departments and Agencies of the Department of Defense. Selection for all new engineering and design applications and for repetitive use shall be made from this document.

APPROVED 12 MARCH 1966 REVISED 21 OCTOBER 1961 21 MAR 1966

FED. SUP CLASS
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The part numbers in Table II only will be used for new design and engineering.

TABLE II

NOMINAL SIZE	1/4		5/16		3/8		7/16	
THREADS PER INCH	20UNC-2B	28UNF-2B	18UNC-2B	24UNF-2B	16UNC-2B	24UNF-2B	14UNC-2B	20UNF-2B
MATERIAL AND PROTECTIVE COATING	DASH NO	DASH NO	DASH NO	DASH NO	DASH NO	DASH NO	DASH NO	DASH NO
STEEL, CARBON, GRADE B, CAD PLATE	1	5	9	13	17	21	25	29
STEEL, CARBON, GRADE C, CAD PLATE	2	6	10	14	18	22	26	30
CRES, 300 SERIES, PASSIVATED	3	7	11	15	19	23	27	31
BRASS, BLACK OXIDE	4	8	12	16	20	24	28	32
NOMINAL SIZE	1/2		9/16		5/8		3/4	
THREADS PER INCH	13UNC-2B	20UNF-2B	12UNC-2B	18UNF-2B	11UNC-2B	18UNF-2B	10UNC-2B	16UNF-2B
MATERIAL AND PROTECTIVE COATING	DASH NO	DASH NO	DASH NO	DASH NO	DASH NO	DASH NO	DASH NO	DASH NO
STEEL, CARBON, GRADE B, CAD PLATE	33	37	41	45	49	53	57	61
STEEL, CARBON, GRADE C, CAD PLATE	34	38	42	46	50	54	58	62
CRES, 300 SERIES, PASSIVATED	35	39	43	47	51	55	59	63
BRASS, BLACK OXIDE	36	40	44	48	52	56	60	64
NOMINAL SIZE	7/8		1		1-1/8		1-1/4	
THREADS PER INCH	9UNC-2B	14UNF-2B	8UNC-2B	12UNF-2B	7UNC-2B	12UNF-2B	7UNC-2B	12UNF-2B
MATERIAL AND PROTECTIVE COATING	DASH NO	DASH NO	DASH NO	DASH NO	DASH NO	DASH NO	DASH NO	DASH NO
STEEL, CARBON, GRADE B, CAD PLATE	65	69	73	77	81	85	89	93
STEEL, CARBON, GRADE C, CAD PLATE	66	70	74	78	82	86	90	94
CRES, 300 SERIES, PASSIVATED	67	71	75	79	83	87	91	95
BRASS, BLACK OXIDE	68	72	76	80	84	88	92	96
NOMINAL SIZE	1-3/8		1-1/2					
THREADS PER INCH	6UNC-2B	12UNF-2B	6UNC-2B	12UNF-2B				
MATERIAL AND PROTECTIVE COATING	DASH NO	DASH NO	DASH NO	DASH NO				
STEEL, CARBON, GRADE B, CAD PLATED	97	101	105	109				
STEEL, CARBON, GRADE C, CAD PLATED	98	102	106	110				
CRES, 300 SERIES, PASSIVATED	99	103	107	111				
BRASS, BLACK OXIDE	100	104	108	112				

CANCELLED The following part numbers are cancelled after **21 MAR 1966**.

TABLE III

NOMINAL SIZE	1/4		5/16		3/8		7/16	
THREADS PER INCH	20UNC-2B	28UNF-2B	18UNC-2B	24UNF-2B	16UNC-2B	24UNF-2B	14UNC-2B	20UNF-2B
MATERIAL AND PROTECTIVE COATING	DASH NO	DASH NO	DASH NO	DASH NO	DASH NO	DASH NO	DASH NO	DASH NO
STEEL, CARBON, GRADE A, UNCOATED	401	421	501	521	601	621	701	721
CAD OR ZINC OPTIONAL	402	422	502	522	602	622	702	722
PHOSPHATE	403	423	503	523	603	623	703	723
STEEL, CARBON, GRADE B								
CAD OR ZINC OPTIONAL	405	425	505	525	605	625	705	725
PHOSPHATE	406	426	506	526	606	626	706	726
STEEL, CARBON, GRADE C								
CAD OR ZINC OPTIONAL	408	428	508	528	608	628	708	728
PHOSPHATE	409	429	509	529	609	629	709	729
CRES, 300-400 SERIES, PASSIVATED	410	430	510	530	610	630	710	730
BRASS, UNCOATED	411	431	511	531	611	631	711	731

P.A. WC Other Cust SH 69	TITLE NUT, SLOTTED-HEXAGON UNC-2B AND UNF-2B	MILITARY STANDARD MS35692
PROCUREMENT SPECIFICATION FF-N-836	SUPERSEDES: BBX1, 2, 3, BBX1, 2, 2.1, 3, BBX3.1, 3.2, 3.3, 5, BUNX6, 9	SHEET 2 OF

This military standard has been approved by the Department of Defense and is mandatory for use by all Departments and Agencies of the Department of Defense. Selection for all new engineering and design applications and for repetitive use shall be made from this document.

FED. SUP. CLASS
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TABLE III CONT'D

NOMINAL SIZE	1/2		9/16		5/8		3/4	
THREADS PER INCH	13UNC-2B	20UNF-2B	12UNC-2B	18UNF-2B	11UNC-2B	18UNF-2B	10UNC-2B	16UNF-2B
MATERIAL AND PROTECTIVE COATING	DASH NO	DASH NO	DASH NO	DASH NO	DASH NO	DASH NO	DASH NO	DASH NO
STEEL, CARBON, GRADE A, UNCOATED	801	821	901	921	1001	1021	1201	1221
CAD OR ZINC OPTIONAL	802	822	902	922	1002	1022	1202	1222
PHOSPHATE	803	823	903	923	1003	1023	1203	1223
STEEL, CARBON, GRADE B								
CAD OR ZINC OPTIONAL	805	825	905	925	1005	1025	1205	1225
PHOSPHATE	806	826	906	926	1006	1026	1206	1226
STEEL, CARBON, GRADE C								
CAD OR ZINC OPTIONAL	808	828	908	928	1008	1028	1208	1228
PHOSPHATE	809	829	909	929	1009	1029	1209	1229
CRES, 300-400 SERIES, PASSIVATED	810	830	910	930	1010	1030	1210	1230
BRASS, UNCOATED	811	831	911	931	1011	1031	1211	1231
NOMINAL SIZE	7/8		1		1-1/8		1-1/4	
THREADS PER INCH	9UNC-2B	14UNF-2B	8UNC-2B	12UNF-2B	7UNC-2B	12UNF-2B	7UNC-2B	12UNF-2B
MATERIAL AND PROTECTIVE COATING	DASH NO	DASH NO	DASH NO	DASH NO	DASH NO	DASH NO	DASH NO	DASH NO
STEEL, CARBON, GRADE A, UNCOATED	1401	1421	1601	1621	1801	1821	2001	2021
CAD OR ZINC OPTIONAL	1402	1422	1602	1622	1802	1822	2002	2022
PHOSPHATE	1403	1423	1603	1623	1803	1823	2003	2023
STEEL, CARBON, GRADE B								
CAD OR ZINC OPTIONAL	1405	1425	1605	1625	1805	1825	2005	2025
PHOSPHATE	1406	1426	1606	1626	1806	1826	2006	2026
STEEL, CARBON, GRADE C								
CAD OR ZINC OPTIONAL	1408	1428	1608	1628	1808	1828	2008	2028
PHOSPHATE	1409	1429	1609	1629	1809	1829	2009	2029
CRES, 300-400 SERIES, PASSIVATED	1410	1430	1610	1630	1810	1830	2010	2030
BRASS, UNCOATED	1411	1431	1611	1631	1811	1831	2011	2031
NOMINAL SIZE	1-3/8		1-1/2					
THREADS PER INCH	6UNC-2B	12UNF-2B	6UNC-2B	12UNF-2B				
MATERIAL AND PROTECTIVE COATING	DASH NO	DASH NO	DASH NO	DASH NO				
STEEL, CARBON, GRADE A, UNCOATED	2201	2221	2401	2421				
CAD OR ZINC OPTIONAL	2202	2222	2402	2422				
PHOSPHATE	2203	2223	2403	2423				
STEEL, CARBON, GRADE B								
CAD OR ZINC OPTIONAL	2205	2225	2405	2425				
PHOSPHATE	2206	2226	2406	2426				
STEEL, CARBON, GRADE C								
CAD OR ZINC OPTIONAL	2208	2228	2408	2428				
PHOSPHATE	2209	2229	2409	2429				
CRES, 300-400 SERIES, PASSIVATED	2210	2230	2410	2430				
BRASS, UNCOATED	2211	2231	2411	2431				

INACTIVE

The following part numbers in Table IV are inactive for design after **21 MAR 1966**.
Use for maintenance purposes only.

TABLE IV

NOMINAL SIZE	1/4		5/16		3/8		7/16	
THREADS PER INCH	20UNC-2B	28UNF-2B	18UNC-2B	24UNF-2B	16UNC-2B	24UNF-2B	14UNC-2B	20UNF-2B
MATERIAL AND PROTECTIVE COATING	DASH NO	DASH NO	DASH NO	DASH NO	DASH NO	DASH NO	DASH NO	DASH NO
STEEL, CARBON, GRADE B, UNCOATED	404	424	504	524	604	624	704	724
STEEL, CARBON, GRADE C, UNCOATED	407	427	507	527	607	627	707	727
NOMINAL SIZE	1/2		9/16		5/8		3/4	
THREADS PER INCH	13UNC-2B	20UNF-2B	12UNC-2B	18UNF-2B	11UNC-2B	18UNF-2B	10UNC-2B	16UNF-2B
MATERIAL AND PROTECTIVE COATING	DASH NO	DASH NO	DASH NO	DASH NO	DASH NO	DASH NO	DASH NO	DASH NO
STEEL, CARBON, GRADE B, UNCOATED	804	824	904	924	1004	1024	1204	1224
STEEL, CARBON, GRADE C, UNCOATED	807	827	907	927	1007	1027	1207	1227

P.A. WC
Other Cust. SH
69

TITLE

NUT, SLOTTED-HEXAGON
UNC-2B AND UNF-2B

MILITARY STANDARD

MS35692

PROCUREMENT SPECIFICATION
FF-N-136SUPERSEDES: BRHX1, 2, 3, BRHX1, 2, 2.1, 3,
BBHX3.1, 3.2, 3.3, 5, BUNX8, 9

SHEET 3 OF

APPROVED 12 MARCH 1966 REVISED A FOR CHANGES SEE SHEETS 12 AND 13. B FOR CHANGES SEE SHEET 17

This military standard has been approved by the Department of Defense and is mandatory for use by all Departments and Agencies of the Department of Defense. Selection for all new engineering and design applications and for repetitive use shall be made from this document.

TABLE IV CONT'D								FED. SUP CLASS 5310	
NOMINAL SIZE		7/8		1		1-1/8		1-1/4	
THREADS PER INCH		9UNC-2B	14UNF-2B	8UNC-2B	12UNF-2B	7UNC-2B	12UNF-2B	7UNC-2B	12UNF-2B
MATERIAL AND PROTECTIVE COATING		DASH NO	DASH NO	DASH NO	DASH NO	DASH NO	DASH NO	DASH NO	DASH NO
STEEL, CARBON, GRADE B, UNCOATED		1404	1424	1604	1624	1804	1824	2004	2024
STEEL, CARBON, GRADE C, UNCOATED		1407	1427	1607	1627	1807	1827	2007	2027
NOMINAL SIZE		1-3/8		1-1/2					
THREADS PER INCH		6UNC-2B	12UNF-2B	6UNC-2B	12UNF-2B				
MATERIAL AND PROTECTIVE COATING		DASH NO	DASH NO	DASH NO	DASH NO				
STEEL, CARBON, GRADE B, UNCOATED		2204	2224	2404	2424				
STEEL, CARBON, GRADE C, UNCOATED		2207	2227	2407	2427				

INTERCHANGEABILITY TABLE							
For interchangeability between the cancelled (Grade A, uncoated) nuts and the superseding inactivated (Grade B, uncoated) nuts, see Table V.							

TABLE V							
PART NUMBERS		PART NUMBERS		PART NUMBERS		PART NUMBERS	
CANCELLED	SUPERSEDING INACTIVATED	CANCELLED	SUPERSEDING INACTIVATED	CANCELLED	SUPERSEDING INACTIVATED	CANCELLED	SUPERSEDING INACTIVATED
MS35692-401	MS35692-404	MS35692-721	MS35692-724	MS35692-1201	MS35692-1204	MS35692-1821	MS35692-1824
421	424	801	804	1221	1224	2001	2004
501	504	821	824	1401	1404	2021	2024
521	524	901	904	1421	1424	2201	2204
601	604	921	924	1601	1604	2221	2224
621	624	1001	1004	1621	1624	2401	2404
701	704	1021	1024	1801	1804	2421	2424

INTERCHANGEABILITY TABLE							
The nuts covered by the dash numbers given in the original issue of this standard are cancelled or * inactivated after <u>21 MAR 1986</u> . The cancelled nuts should be used for maintenance purposes until existing stock is depleted. Use only the superseding nuts for new design.							

TABLE VI							
PART NUMBERS		PART NUMBERS		PART NUMBERS		PART NUMBERS	
CANCELLED OR INACTIVATED	SUPERSEDING	CANCELLED OR INACTIVATED	SUPERSEDING	CANCELLED OR INACTIVATED	SUPERSEDING	CANCELLED OR INACTIVATED	SUPERSEDING
MS35692-401	MS35692-1	MS35692-428	MS35692-6	MS35692-*524	MS35692-13	MS35692-611	MS35692-20
402	1	429	6	525	13	621	21
403	1	430	7	526	13	622	21
*404	1	431	8	*527	14	623	21
405	1	501	9	528	14	*624	21
406	1	502	9	529	14	625	21
*407	2	503	9	530	15	626	21
408	2	*504	9	531	16	*627	22
409	2	505	9	601	17	628	22
410	3	506	9	602	17	629	22
411	4	*507	10	603	17	630	23
421	5	508	10	*604	17	631	24
422	5	509	10	605	17	701	25
423	5	510	11	606	17	702	25
*424	5	511	12	*607	18	703	25
425	5	521	13	608	18	*704	25
426	5	522	13	609	18	705	25
*427	6	523	13	610	19	706	25

P.A. WC	TITLE	MILITARY STANDARD
Other Cust SH 69	NUT, SLOTTED-HEXAGON	MS35692
	UNC-2B AND UNF-2B	
PROCUREMENT SPECIFICATION FF-N-836	SUPERSEDES: BBGX1, 2, 3, BBHX1, 2, 2.1, 3, BBHX1.1, 3.2, 3.3, 5, BUNX6, 9	SHEET 4 OF

REVIEWER: MO, SH, WP, WC, JS, 69
USER: GL, MC, YD

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APPROVED 12 MARCH 1986 REVISED FOR CHANGES SEE SHEETS 1, 2 AND 3 FOR CHANGES SEE SHEETS 1

FED SUP CLASS
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PART NUMBERS		PART NUMBERS		PART NUMBERS		PART NUMBERS	
CANCELLED OR INACTIVATED	SUPERSEDING	CANCELLED OR INACTIVATED	SUPERSEDING	CANCELLED OR INACTIVATED	SUPERSEDING	CANCELLED OR INACTIVATED	SUPERSEDING
MS35692-707	MS35692-26	MS35692-909	MS35692-42	MS35692-1210	MS35692-59	MS35692-1611	MS35692-76
708	26	910	43	1211	60	1621	77
709	26	911	44	1221	61	1622	77
710	27	921	45	1222	61	1623	77
711	28	922	45	1223	61	*1624	77
721	29	923	45	*1224	61	1625	77
722	29	*924	45	1225	61	1626	77
723	29	925	45	1226	61	*1627	77
*724	29	926	45	*1227	62	1628	78
725	29	*927	46	1228	62	1629	78
726	29	928	46	1229	62	1630	79
*727	30	929	46	1230	63	1631	80
728	30	930	47	1231	64	1801	81
729	30	931	48	1401	65	1802	81
730	31	1001	49	1402	65	1803	81
731	32	1002	49	1403	65	*1804	81
801	33	1003	49	*1404	65	1805	81
802	33	*1004	49	1405	65	1806	81
803	33	1005	49	1406	65	*1807	82
*804	33	1006	49	*1407	66	1808	82
805	33	*1007	50	1408	66	1809	82
806	33	1008	50	1409	66	1810	83
*807	34	1009	50	1410	67	1811	84
808	34	1010	51	1411	68	1821	85
809	34	1011	52	1421	69	1822	85
810	35	1021	53	1422	69	1823	85
811	36	1022	53	1423	69	*1824	85
821	37	1023	53	*1424	69	1825	85
822	37	*1024	53	1425	69	1826	85
823	37	1025	53	1426	69	*1827	86
*824	37	1026	53	*1427	70	1828	86
825	37	*1027	54	1428	70	1829	86
826	37	1028	54	1429	70	1830	87
*827	38	1029	54	1430	71	1831	88
828	38	1030	55	1431	72	2001	89
829	38	1031	56	1601	73	2002	89
830	39	1201	57	1602	73	2003	89
831	40	1202	57	1603	73	*2004	89
901	41	1203	57	*1604	73	2005	89
902	41	*1204	57	1605	73	2006	89
903	41	1205	57	1606	73	*2007	90
*904	41	1206	57	*1607	74	2008	90
905	41	*1207	58	1608	74	2009	90
906	41	1208	58	1609	74	2010	91
*907	42	1209	58	1610	75	2011	92

This standard has been approved by the Department of Defense and is mandatory for use by all Departments and Agencies of the Department of Defense. Selection for all new engineering and design applications and for repetitive use shall be made from this document.

APPROVED 12 MARCH 1956 REVISED 2 FOR CHANGES SEE SHEETS 1

P.A. WC	TITLE	MILITARY STANDARD
Other Cont SH 69	NUT, SLOTTED-HEXAGON UNC-2B AND UNF-2B	MS35692
PROCUREMENT SPECIFICATION FF-N-836	SUPERSEDES: BBX1, 2, 3, BBH1, 2, 2.1, 3, BBH3.1, 3.2, 3.3, 5, BUNX8, 9	SHEET 5 OF

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PART NUMBER		PART NUMBER		PART NUMBER		PART NUMBER	
CANCELLED OR INACTIVATED	SUPERSEDING	CANCELLED OR INACTIVATED	SUPERSEDING	CANCELLED OR INACTIVATED	SUPERSEDING	CANCELLED OR INACTIVATED	SUPERSEDING
MS35692- 2021	MS35692-93	MS35692- 2205	MS35692- 97	MS35692-2228	MS35692-102	MS35692-2411	MS35692-108
2022	93	2206	97	2229	102	2421	109
2023	93	*2207	98	2230	103	2422	109
*2024	93	2208	98	2231	104	2423	109
2025	93	2209	98	2401	105	*2424	109
2026	93	2210	99	2402	105	2425	109
*2027	94	2211	100	2403	105	2426	109
2028	94	2221	101	*2404	105	*2427	110
2029	94	2222	101	2405	105	2428	110
2030	95	2223	101	2406	105	2429	110
2031	96	*2224	101	*2407	106	2430	111
2201	97	2225	101	2408	106	2431	112
2202	97	2226	101	2409	106		
2203	97	*2227	102	2410	107		
2204	97						

NOTE: For dimensions, material, protective coating and other pertinent data, see sheet 1.

* Inactive - see Table IV.

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P.A. WC Other Cust SH 69	TITLE NUT, SLOTTED-HEXAGON UNC-2B AND UNF-2B	MILITARY STANDARD MS 35692
PROCUREMENT SPECIFICATION FF-N-836	SUPERSEDES: BBGX1, 2, 3, BBHX1, 2, 2.1, 3, BBHX3.1, 3.2, 3.3, 5, BUNX8, 9	SHEET 6 OF

DD FORM 672-1 (Coordinated)

APPROVED 12 MARCH 1953 REVISED (B) FOR CHANGES SEE SHEETS 1.