STORAGE IN APPROVED MAGAZINES OF 500-POUND BOMB, MK82 AND MODS, UNITIZED 6 BOMBS PER PALLET UNIT, • 35" L X 62" W X 29" H (NAVY FLEET ISSUE UNIT, MHU-122/E PALLET)

INDEX

ITEM	PAGE(S)
GENERAL NOTES, AND MATERIAL SPECIFICATIONS	
81'-0", 60'-8" AND 40'-4" L X 26'-6" W X 12'-9" H IGLOO MAGAZINES 81'-2" L X 26'-6" W X 12-1-3/4" H ARCH TYPE MAGAZINE 80'-0" AND 40'-0" L X 25'-0" W X 12'-1-3/4" H ARCH TYPE MAGAZINES 80'-0" AND 40'-0" L X 25'-0" W X 11'-0" H ARCH TYPE MAGAZINES 80'-0" AND 40'-0" L X 25'-0" W X 10"-0" H ARCH TYPE MAGAZINES	- 6 - 7 - 8
80'-0" L X 25'-0" W X 14'-0" H STRADLEY AND 89'-0" L X 24'-10" W X 14'-4" H OVAL ARCH MAGAZINES 1 52'-0" DIA CORBETTA MAGAZINE 1 100'-8" L X 50'-0" W RECTANGULAR MAGAZINE	0,11
IGLOO AND ARCH TYPE MAGAZINES	8,19

NOTE: THIS DRAWING, INCLUDING REVISION NO. 1, SUPERSEDES DRAWING 19-48-4105-1-14PB1003, DATED MARCH 1974, AS PERTAINS TO STORAGE PROCEDURES FOR NAVY FLEET ISSUE UNITS ON MHU-122/E PALLETS.

 SIZE OF UNIT MAY VARY SLIGHTLY, HOWEVER, PROCEDURES SPECIFIED HEREIN WILL APPLY.

	U.S. ARMY MATERIEL COMMAND DRAWING					
	APPROVED, U.S. ARMY INDUSTRIAL OPERATIONS COMMAND		D DRAFTSMAN		INGEBORG DEPPE	
	David a Rishorik	ENGINEE	R	M. DAEUMER		
	AMSTA-AR-ESK APPROVED BY ORDER OF COMMANDING GENERAL, U.S. ARMY MATERIEL COMMAND		ENGINEERING VISION	Then	us I. Michich	
			CS ENGINEER OFFICE	ING WILL	4 Enst	
William F Ernst		JULY 1979				
ļ	DEFENSE AMMUNITION CENTER	CLASS	NOISIVID	DRAWING	FILE	
	REVISION NO. 1 APRIL 1997	19	48	4105/4	1-3-4-14	
	SEE THE REVISION LISTING ON PAGE 2.	13	70	4103/4	22 PB1003	

DO NOT SCALE

GENERAL NOTES

- A. THIS DOCUMENT HAS BEEN PREPARED AND ISSUED IN ACCORDANCE WITH AR 740-1 AND AUGMENTS TM 743-200-1 (CHAPTER 5).
- B. THE STORAGE PROCEDURES SPECIFIED HEREIN ARE APPLICABLE TO NAVY FLEET ISSUE UNITS OF 500-POUND MKB2 SERIES BOMBS PACKED 6 PER METAL PALLET, MHU-122/E. FOR DETAILS OF THE UNIT, SEE PAGE 3 AND NAVY WR-54/239C.

PALLET UNIT DIMENSIONS - - - - 35" L X 62" W X 29" H (APPROX)
GROSS WEIGHT - - - - - - - - - - - 3,089 POUNDS
(APPROX)
CUBE - - - - - - 36.1 CU FT

- C. THE STORAGE PROCEDURES WITHIN THIS DOCUMENT DEPICT STORAGE IN VARIOUS TYPES AND SIZES OF MAGAZINES. THE STORAGE PROCEDURES DEPICTED FOR THE SPECIFIC TYPES OF MAGAZINES MAY ALSO BE UTILIZED TO STORE BOMB PALLET UNITS IN OTHER TYPES OF APPROVED MAGAZINES. MINOR ADJUSTMENT MAY BE MADE TO FACILITATE STORAGE IN OTHER TYPES OF MAGAZINES, HOWEVER, THE BASIC PRINCIPLES AS DEPICTED HEREIN WILL BE FOLLOWED.
- D. <u>CAUTION</u>: THE ALLOWABLE "EXPLOSIVE LIMIT" ESTABLISHED FOR A MAGAZINE IS NOT TO BE EXCEEDED. THIS LIMITATION MAY REQUIRE A QUANTITY REDUCTION FROM THE STORAGE AS SHOWN. SEE GENERAL NOTE "T" AT RIGHT.
- E. STORED PALLET UNITS MUST NOT CONTACT THE WALLS OF A MAGAZINE. TO PROVIDE FOR THIS MANDATORY CLEARANCE REQUIREMENT, PALLET UNITS MAY BE ELIMINATED FROM THE DEPICTED STORAGE PATTERN AS NECESSARY.
- F. AISLE DIMENSIONS AS SHOWN HEREIN MAY BE ADJUSTED TO SUIT LOCAL CONDITIONS AND/OR AVAILABLE MATERIAL HANDLING EOUIPMENT (MHE). HOWEVER, A SIXTEEN INCH (16') (MINIMUM) AISLE IS REQUIRED AT THE NOSE END AND AT THE BASE END OF THE BOMBS TO FACILITATE INSPECTION
- G. THE STORAGE PROCEDURES AND DIMENSIONS AS SHOWN WITHIN THIS DRAWING ARE BASED ON PALLET UNITS OF BOMBS HAVING FLAT NOSE PLUGS. IF THE BOMBS TO BE STORED HAVE CONICAL NOSE PLUGS, THE NUMBER OF STACKS OR ROWS OF UNITS, AS APPLICABLE, MUST BE REDUCED FROM THAT SHOWN, AS NECESSARY, TO COMPENSATE FOR THE ADDITIONAL SPACE REQUIREMENTS DUE TO THE INCREASED LENGTH OF THE BOMBS WITH CONICAL PLUGS. INSPECTION AISLES, HOWEVER, MUST BE PROVIDED AS SPECIFIED IN NOTE "F" ABOVE.
- H. IF AVAILABLE MHE PERMITS, ADDITIONAL PALLET UNITS MAY BE STORED WITHIN THE FRONTAL AREA AND/OR OTHER AVAILABLE AREA OF THE MAGAZINE.
- J. THE HEIGHT OF THE PACKAGE GUARD ON SOME FORKLIFT TRUCKS MAY NOT PERMIT PLACEMENT OF SOME TOP LAYER UNITS IN THE STACKS SHOWN IN THE STORAGE VIEWS HEREIN, UNLESS THE PACKAGE GUARD IS REMOVED (TINE CARRIAGE WILL IN MOST INSTANCES PROVIDE ADEQUATE PACKAGE GUARD PROTECTION).
- K. THE MAXIMUM FLOOR LOAD FOR A MAGAZINE AS PRESCRIBED BY LOCAL STANDARDS WILL NOT BE EXCEEDED.
- L. STACK-STABILIZING DUNNAGE IN THE FORM OF "SHIMS" PROB-ABLY WILL BE REQUIRED TO ACHIEVE SOUND AND ACCEPTABLE STABLE STACKS. SHIM MATERIAL OF VARYING THICKNESSES WILL BE USED AS REQUIRED TO GAIN LEVEL OR NEARLY LEVEL STACKS AND SOLID BEARING WITHIN A STACK FROM THE FLOOR OF A MAGAZINE TO THE TOP OF THE STACK.
- M. THE USE OF "FLOOR DUNNAGE" UNDER METAL PALLETS IS
 OPTIONAL, ALTHOUGH THE USE OF THIS TYPE OF DUNNAGE IS
 DELINEATED WITHIN THIS STORAGE PROCEDURE DRAWING. THE
 PURPOSE OF FLOOR DUNNAGE IS TO HELP KEEP THE RUNNERS OF
 A PALLET DRY, THUS AIDING IN PREVENTING DETERIORATION
 DUE TO CORROSION. THEREFORE FLOOR DUNNAGE SHOULD BE
 USED WHEN STORING IN A MAGAZINE THAT IS KNOWN TO HAVE A
 "DAMP" FLOOR. ALSO, IN LIEU OF USING ONE-INCH THICK
 FLOOR DUNNAGE AS SPECIFIED, THE USE OF THICKER FLOOR
 DUNNAGE MAY BE REQUIRED, AND SHOULD BE USED, TO ACHIEVE
 THE DESIRED OBJECTIVE.

(CONTINUED AT RIGHT)

MATERIAL SPECIFICATION

<u>LUMBER</u> - - - - - - : SEE TM 743-200-1 (DUNNAGE LUMBER) AND FED SPEC MM-L-751.

(GENERAL NOTES CONTINUED)

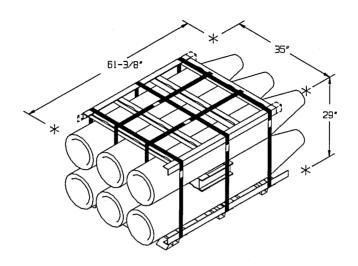
- N. DUNNAGE LUMBER SPECIFIED THROUGHOUT THIS PROCEDURAL DRAWING IS OF NOMINAL SIZE. FOR EXAMPLE, 1" X 6" MATERIAL IS ACTUALLY 3/4" THICK BY 5-1/2" WIDE.
- O. PROTIONS OF THE MAGAZINES, SUCH AS SIDEWALLS, END WALLS, AND ROOFS, HAVE NOT BEEN SHOWN FOR CLARITY PURPOSES.
- P. STORAGE OF MULTIPLE LOTS IN A MAGAZINE WILL REQUIRE CAREFUL PRE-PLANNING SO AS TO INSURE MHE ACCESSIBILITY TO ANY LOT IN ACCORDANCE WITH REQUIREMENTS SET FORTH IN THE APPLICABLE "SPECIAL NOTES" SECTIONS OF THE MULTIPLE LOT STORAGE PROCEDURES TYPICALLY SHOWN ON PAGES 16 THRU
- 22.

 O. ALTHOUGH SPECIFIC PROCEDURES ARE INCLUDED IN THIS DRAWING FOR STORING MULTIPLE LOTS WITHIN ONE STRUCTURE, THE BASIC STORAGE PATTERN AS SHOWN ON PAGES 4 THRU 15 CAN ALSO BE ADAPTED FOR THE STORING OF MORE THAN ONE LOT. LOTS WHEN STORED IN ACCORDANCE WITH A BASIC STORAGE PATTERN MAY BE STORED WITH ONE OR MORE ROWS USED FOR EACH LOT. A SPACE OF APPROXIMATELY 1" WILL HAVE TO BE LEFT BETWEEN ADJACENT ROWS CONTAINING DIFFERENT LOTS UNLESS SEPARATED BY AN INSPECTION/ACCESS AISLE. IN BASIC STORAGE PATTERNS WHERE THE WIDTH OF A ROW IS ESTABLISHED BY THE 62" UNIT-DIMENSION, EACH ROW MAY BE A DIFFERENT LOT AND BE READILY REMOVABLE. IN BASIC STORAGE PATTERNS WHERE THE WIDTH OF A ROW IS ESTABLISHED BY THE 35" UNIT DIMENSION, A LOT MUST CONSIST OF TWO OR MORE ROWS TO PROVIDE ADEQUATE SPACE TO ACCOMMODATE THE WIDTH OF A FORKLIFT TRUCK FOR STORING OR REMOVING THE LOT. HOWEVER, WHEN THE SIZE OF A LOT REQUIRES THE SPACE OF ONLY ONE 35" WIDE ROW IT MUST BE LOCATED ADJACENT TO AN OTHERWISE REQUIRED ACCESS OR INSPECTION AISLE. THE 1" SPACE BETWEEN LOTS WILL NOT BE EXCEEDED NOR WILL ACCESS AISLES BE PROVIDED SOLELY TO ACCOMMODATE THE WIDTH OF A FORKLIFT TRUCK FOR ONE-ROW STORAGE OF A LOT. FOR ADDITIONAL REQUIREMENTS AND GUIDANCE, SEE THE SPECIAL NOTES FOR MULTIPLE-LOT STORAGE ON PAGES 16 THRU 22.
- R. ANY "LIGHT" PALLET UNIT THAT DOES NOT CONTAIN A FULL OUANTITY OF BOMBS WILL NOT BE BURIED IN STORAGE. IT MUST BE POSITIONED ADJACENT TO AN AISLE, PREFERABLY IN FRONT OF THE LOT.
- S. BOMBS PRESENTLY STORED IN ACCORDANCE WITH A PRIOR APPROVED DRAWING NEED NOT BE RE-STORED SOLELY TO CONFORM TO THE PROCEDURES SPECIFIED IN THIS DOCUMENT.
- T. IF THE QUANTITY OF UNITS FOR A MAGAZINE IS TO BE REDUCED FROM WHAT IS SHOWN HEREIN DUE TO THE PERMITTED "EXPLOSIVE LIMIT" OR FOR ANY OTHER REASON, SUCH AS A LIMITED QUANTITY TO BE STORED THE DELINEATED PROCEDURES ARE TO BE ADJUSTED BY OMITTING STACKS RATHER THAN BY OMITTING LAYERS.
- U. THE POSITIONING OF THE NOSE END OF BOMBS WITHIN A MAGAZINE IS INDICATED BY ARROWS IN THE STORAGE VIEWS. FOR STORAGE PROCEDURES SHOWN ON PAGES 4 THRU 15, THE POSITIONING OF THE NOSE-END OF BOMBS IS INDICATED ONLY TO FACTLITATE STORAGE OPERATIONS AND PROVIDE FOR A UNIFORM AND ORDERLY STORAGE PATTERN AND THEREFORE, IS NOT A MANDATORY REQUIREMENT. HOWEVER, FOR STORAGE OF MULTIPLE LOTS, AS TYPICALLY SHOWN ON PAGES 16 THRU 19, THE NOSE-END DIRECTIONS AS SHOWN GENERALLY MUST BE COMPLIED WITH TO PERMIT BASE-END HANDLING OF UNITS FOR REMOVAL FROM STORAGE WITHOUT THE NECESSITY FOR HANDLING AND RELOCATING ADJACENT LOTS.

REVISIONS

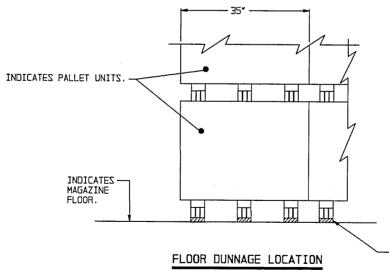
REVISION NO. 1, DATED APRIL 1997, CONSISTS OF:

1. CONVERTING DRAWING TO CAD.



PALLET UNIT

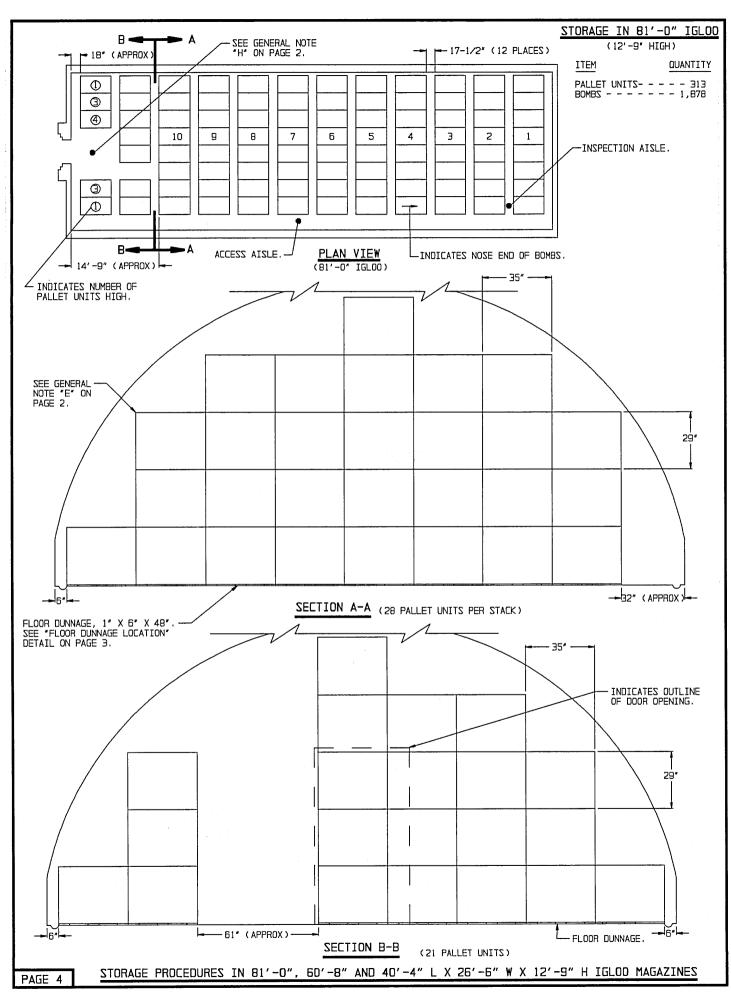
NAVY FLEET ISSUE UNIT.
6 BOMBS PER METAL PALLET.
UNIT WEIGHT - - - 3,089 LBS (APPROX)
CUBE - - - - - 36.1 CUBIC FEET
SEE GENERAL NOTE "G" ON PAGE 2.

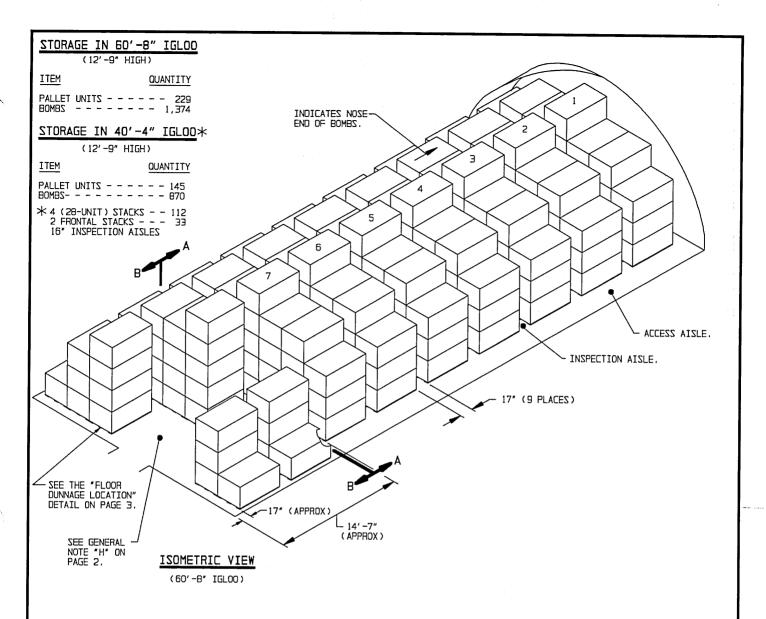


ISOMETRIC VIEWS WITHIN THIS DRAWING DO NOT DEPICT ALL FLOOR DUNNAGE THAT IS REQUIRED WHEN FLOOR DUNNAGE IS USED. FLOOR DUNNAGE IS SHOWN AT SOME LOCATIONS TO PROVIDE POSITIONING GUIDANCE. SEE GENERAL NOTES "M" AND "N" ON PAGE 2.

FLOOR DUNNAGE, 1" X 6" X 48" (3 REOD PER FIRST LAYER PALLET UNIT).

DETAILS



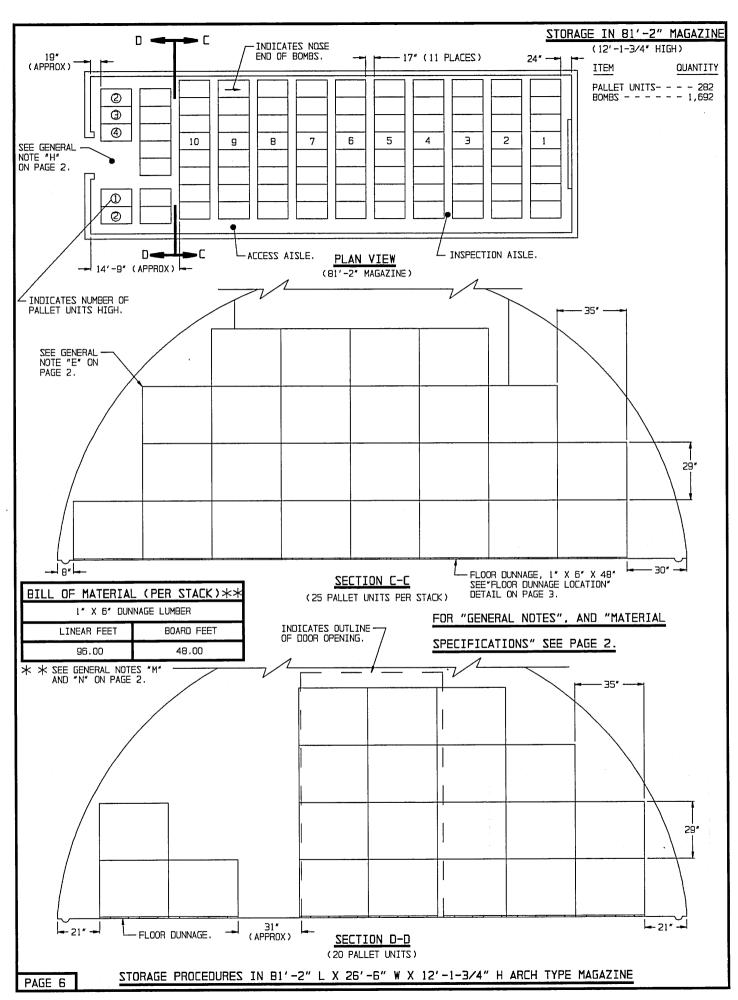


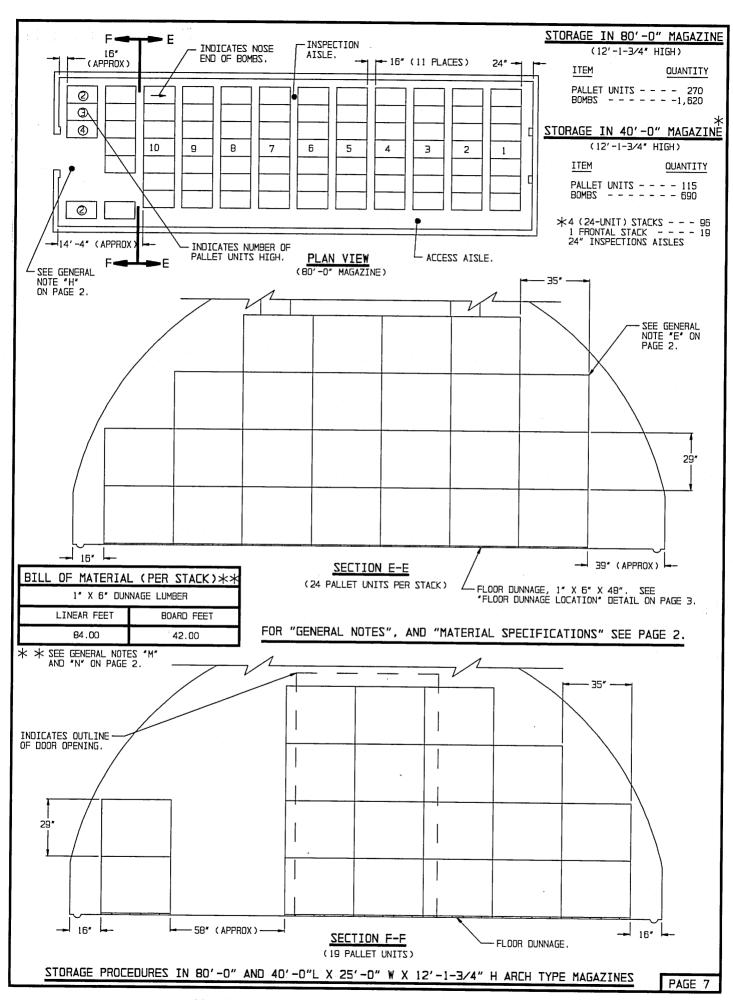
FOR "GENERAL NOTES". AND "MATERIAL SPECIFICATIONS" SEE PAGE 2.

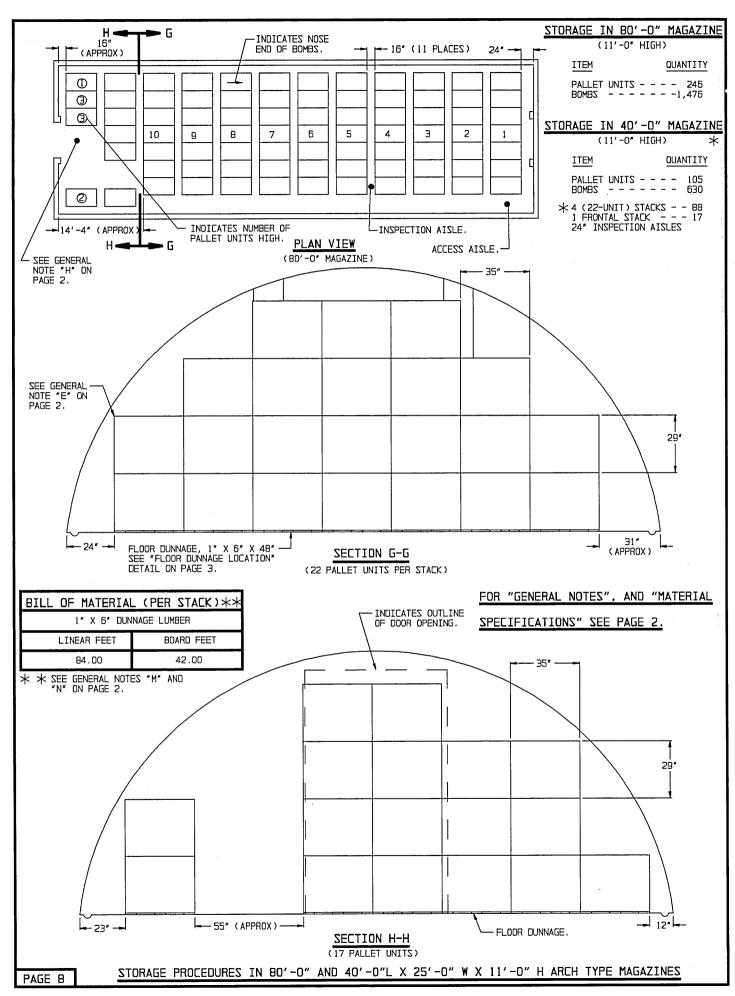
BILL OF MATERIA	L (PER STACK)**			
1" X 6" DUNNAGE LUMBER				
LINEAR FEET	BOARD FEET			
96.00	48.00			

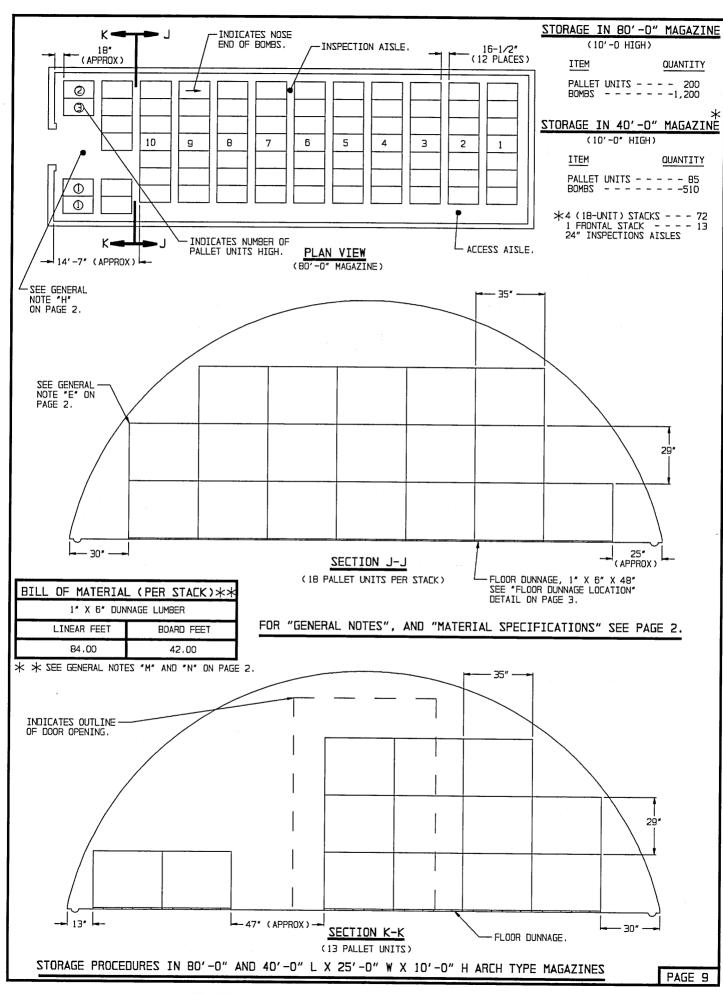
* * SEE GENERAL NOTES "M" AND "N" ON PAGE 2.

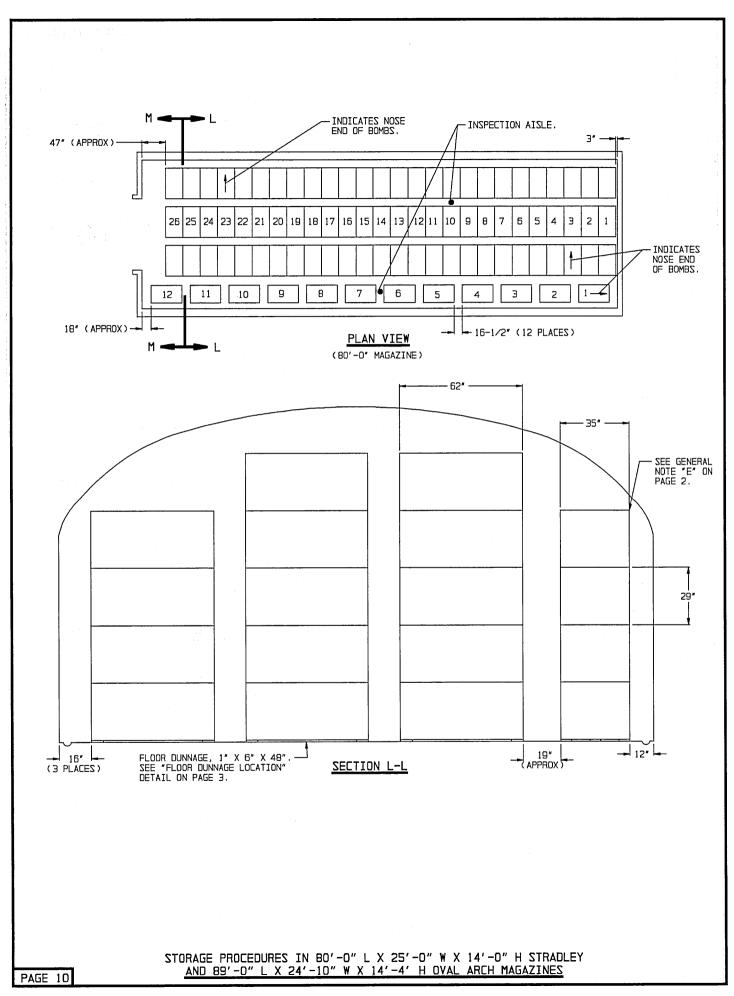
STORAGE PROCEDURES IN 81'-0", 60'-8" AND 40'-4" L X 26'-6" W X 12'-9" H IGLOO MAGAZINES

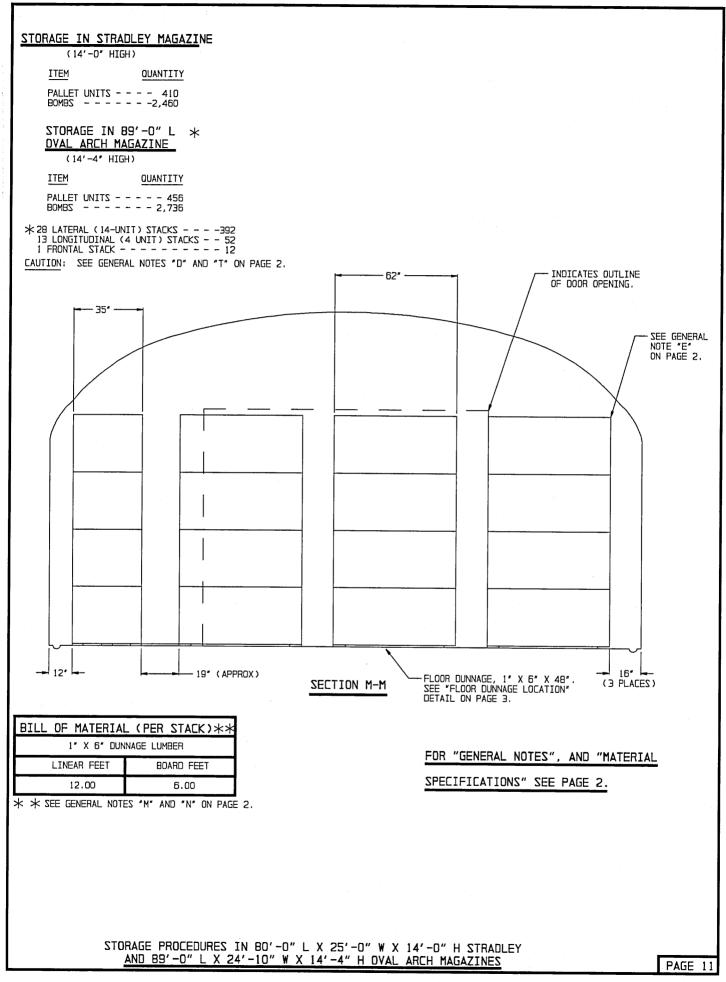


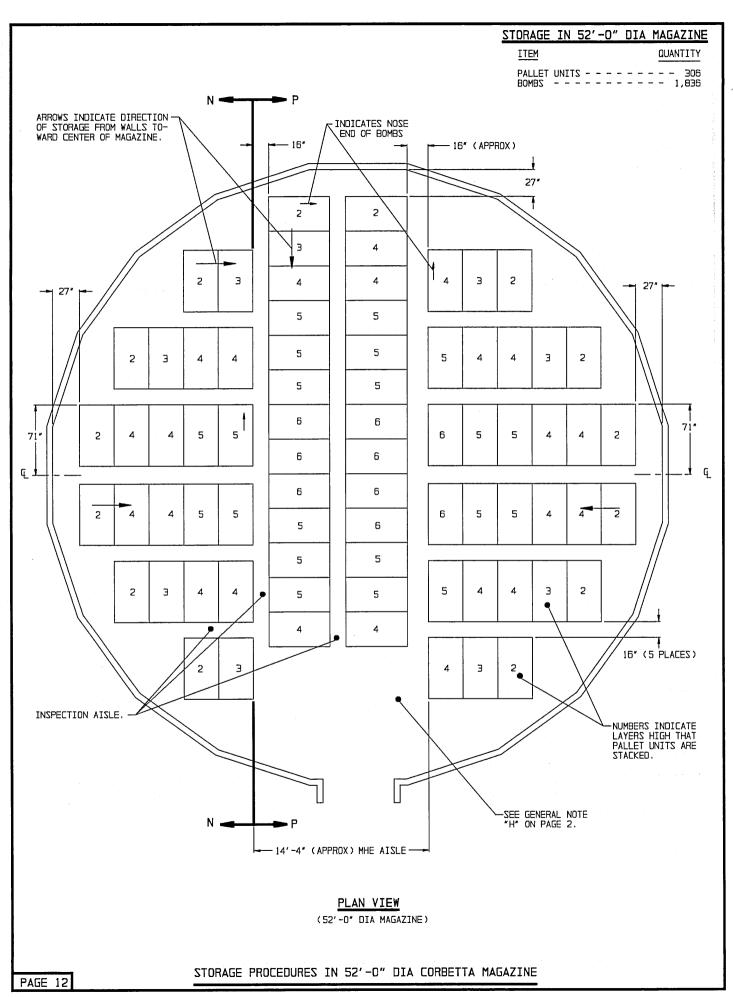


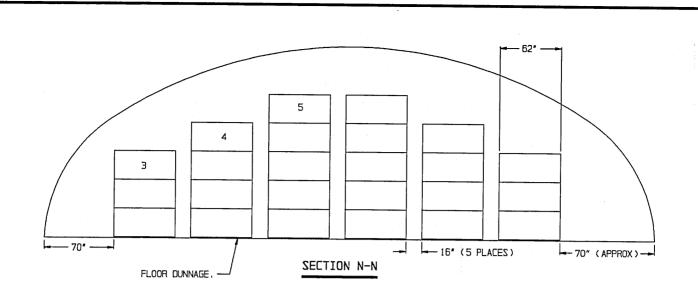


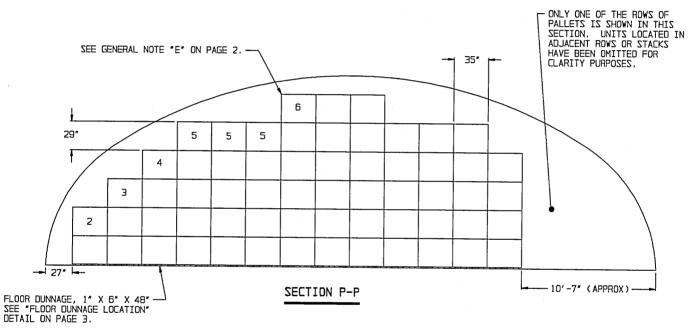










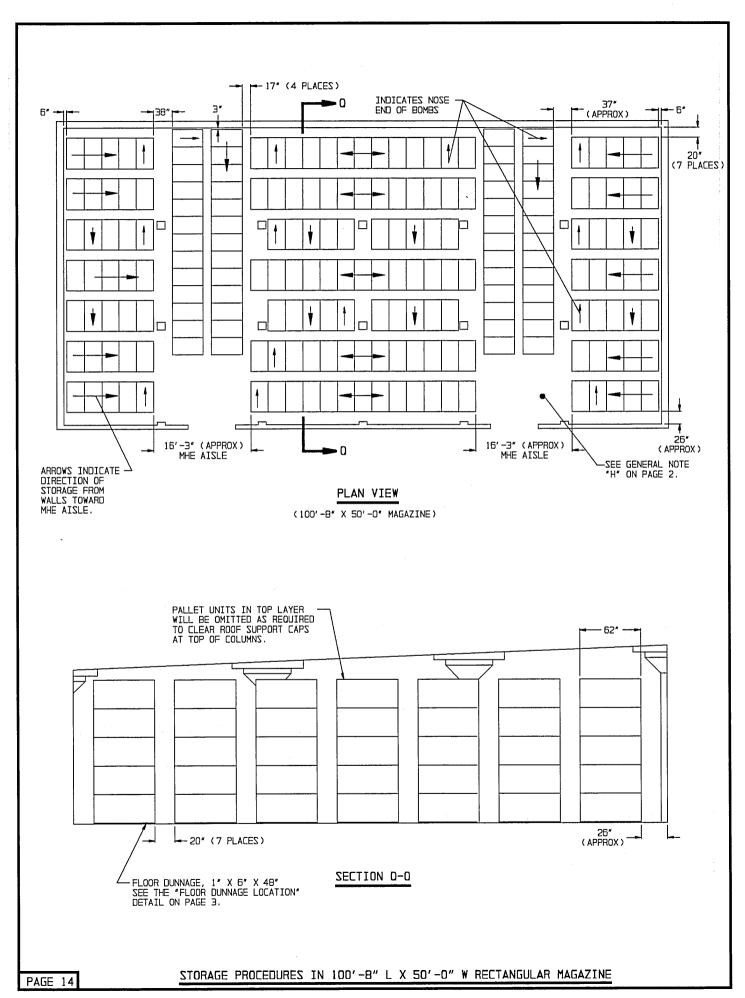


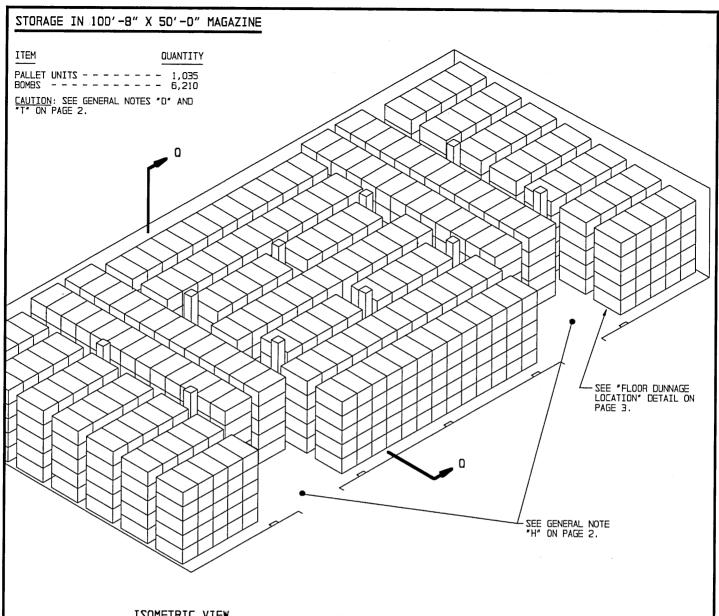
FOR "GENERAL NOTES", AND "MATERIAL SPECIFICATIONS" SEE PAGE 2.

BILL OF MATERIAL (PER FI	* (TINU TELLAP REYAL TER					
1" X 6" DUNNAGE LUMBER						
LINEAR FEET	BOARD FEET					
12.00	6.00					

* SEE GENERAL NOTES "M" AND "N" ON PAGE 2.

STORAGE PROCEDURES IN 52'-0" DIA CORBETTA MAGAZINE





ISOMETRIC VIEW

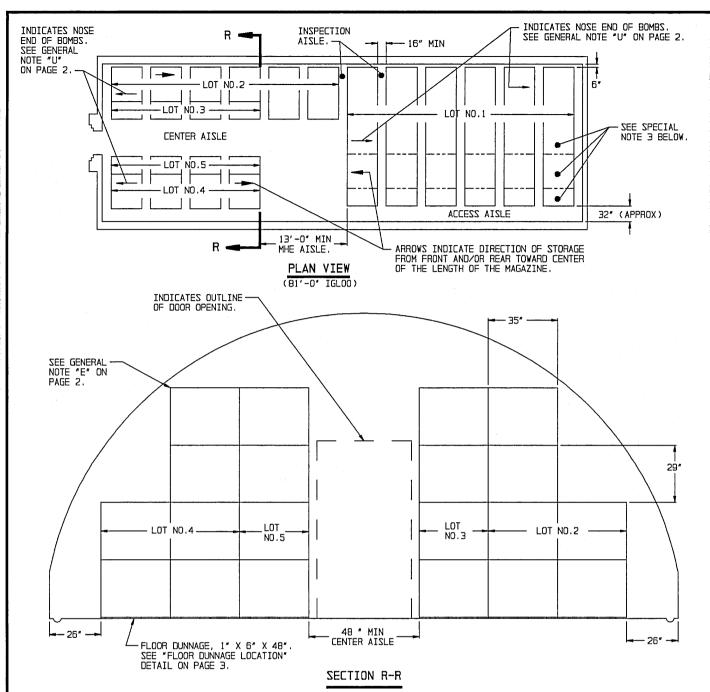
(100'-B" X 50'-0" MAGAZINE)

FOR "GENERAL NOTES", AND "MATERIAL SPECIFICATIONS" SEE PAGE 2.

BILL OF MATERIAL (PER FI	RST LAYER PALLET UNIT) *					
1" X 6" DUNNAGE LUMBER						
LINEAR FEET	BOARD FEET					
12.00	6.00					

* SEE GENERAL NOTES "M" AND "N" ON PAGE 2.

STORAGE PROCEDURES IN 100'-8"L X 50'-0" W RECTANGULAR MAGAZINE



- THE STORAGE PLANS AND CONFIGURATIONS SHOWN ON THIS PAGE ARE TYPICAL ONLY AND APPLY TO RELATIVE LARGE LOTS. ADAPTATIONS MAY BE MADE AS NUMBER AND SIZES OF LOTS TO BE STORED IN THE MAGAZINE REQUIRE.
- 2. AN INSPECTION/INVENTORY AISLE NOT LESS THAN 16" WIDE MUST BE PROVIDED AT THE NOSE END AND BASE END OF THE BOMBS.
- 3. GENERALLY THE LARGEST LOT SHOULD BE STORED IN THE REAR OF THE MAGAZINE. HOWEVER, THE REAR AREA MAY BE USED TO STORE MORE THAN ONE LOT BY ERECTING ROWS SIMILAR TO THOSE SHOWN IN THE FRONTAL AREA. A CENTER AISLE WILL NOT BE REQUIRED IN THE REAR AREA AS LONG AS EACH LOT IS ACCESSIBLE FOR REMOVAL AND INSPECTION/INVENTORY IN ACCORDANCE WITH OTHER CRITERIA SPECIFIED IN THESE SPECIAL NOTES AND IN THE GENERAL NOTES ON PAGE 2.
- 4. EACH LOT WITHIN THE MAGAZINE MUST BE ACCESSIBLE FOR MOVEMENT BY MHE. A SINGLE LOT OF PALLET UNITS IS CONSIDERED "ACCES—SIBLE" IF NO MORE THAN TWELVE (12) "LIFTS" OF ANOTHER LOT OR LOTS HAVE TO BE MADE TO GAIN ACCESS TO THAT LOT. A "LIFT"

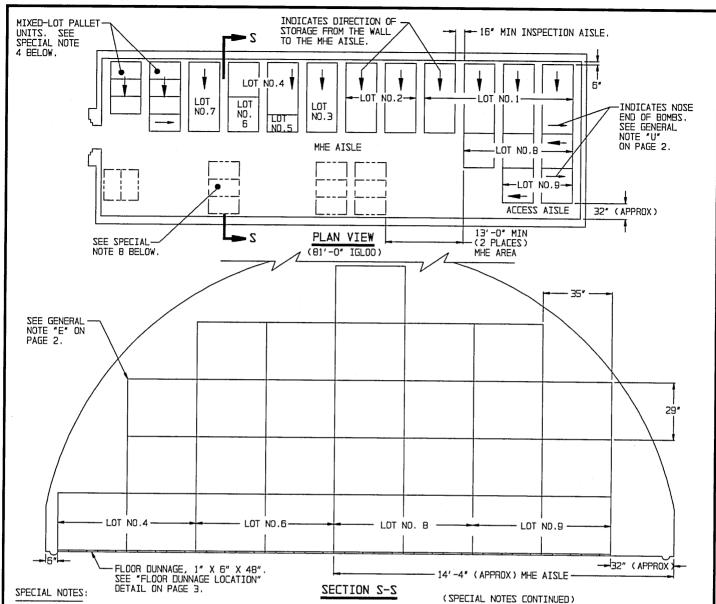
(SPECIAL NOTES CONTINUED)

MAY CONSIST OF ONE (1) OR MORE PALLET UNITS, PROVIDING THE CAPACITY OF MHE PERMITS, AND SAFE HANDLING IS NOT JEOPARDIZED.

- 5. FOR STORAGE OF MULTIPLE LOTS, THE DISTANCE FROM THE SIDEWALL WILL BE BASED ON THE OVERHEAD CLEARANCE REQUIRED FOR MHE.
- 6. WHEN TWO LOTS ARE STORED ADJACENT TO EACH OTHER, WITH UNITS OF ONE LOT HAVING BOMBS PARALLEL TO AND SIDE BY SIDE WITH THE BOMBS IN THE OTHER LOT, THEY SHOULD BE SEPARATED BY AT LEAST 1" TO PROVIDE CLEARANCE FOR REMOVAL OF EITHER LOT.
- 7. EACH LOT MUST BE STORED TWO (2) UNITS (MINIMUM) WIDE TO ACCOMMODATE WIDTH OF MHE DURING OPERATIONS, EXCEPT FOR A ROW ADJACENT TO CENTER/ACCESS AISLE

(CONTINUED AT RIGHT)

TYPICAL MULTIPLE-LOT STORAGE IN IGLOO AND ARCH TYPE MAGAZINES

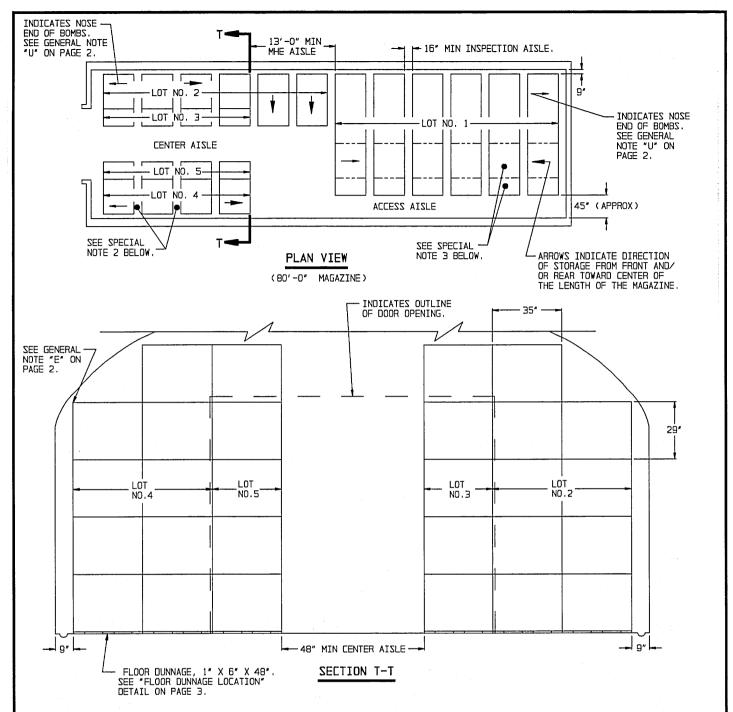


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- 2. AN INSPECTION/INVENTORY AISLE NOT LESS THAN 16" WIDE MUST BE PROVIDED AT THE NOSE END AND BASE END OF THE BOMBS.
- 3. GENERALLY THE LARGEST LOT SHOULD BE STORED IN THE REAR OF THE MAGAZINE. HOWEVER, THE REAR AREA MAY BE USED TO STORE MORE THAN ONE LOT BY ERECTING STACKS SIMILAR TO THOSE SHOWN IN THE FRONTAL AREA. AN MHE AISLE WILL BE REGULTRED ON ONE SIDE OF THE MAGAZINE, AND EACH LOT MUST BE ACCESSIBLE FOR REMOVAL AND INSPECTION/INVENTORY IN ACCORDANCE WITH OTHER CRITERIA SPECIFIED IN THESE SPECIAL NOTES AND IN THE GENERAL NOTES ON PAGE 2.
- 4. A MIXED-LOT PALLET UNIT MAY HAVE FROM TWO LOTS PER PALLET UNIT UPWARDS TO AS MANY DIFFERENT LOTS AS BOMBS WITHIN THAT UNIT. HOWEVER, ALL BOMBS AND LOTS WITHIN THE PALLET UNIT MUST HAVE THE SAME NATIONAL STOCK NUMBER AND CONDITION CODE.
- 5. EACH LOT WITHIN THE MAGAZINE MUST BE ACCESSIBLE FOR MOVE-MENT BY MHE. PALLET UNITS OF A SINGLE-LOT OR MIXED-LOT PALLET UNITS ARE CONSIDERED "ACCESSIBLE" IF NO MORE THAN TWELVE (12) "LIFTS" OF ANOTHER LOT OR LOTS HAVE TO BE MADE TO GAIN ACCESS TO THE SINGLE-LOT OR MIXED-LOT UNITS. A "LIFT" MAY CONSIST OF ONE (1) OR MORE PALLET UNITS, PROVIDING THE CAPACITY OF MHE PERMITS AND SAFE HANDLING IS NOT JEOPARDIZED.
- FOR STORAGE OF MULTIPLE LOTS, THE DISTANCE FROM THE SIDEWALL WILL BE BASED ON THE OVERHEAD CLEARANCE REQUIRED FOR MHE.

- 7. WHEN TWO LOTS ARE STORED ADJACENT TO EACH OTHER, WITH UNITS OF ONE LOT HAVING BOMBS PARALLEL TO AND SIDE BY SIDE WITH THE BOMBS IN THE OTHER LOT, THEY SHOULD BE SEPARATED BY AT LEAST 1" TO PROVIDE CLEARANCE FOR REMOVAL OF EITHER LOT.
- AREAS ENCLOSED BY DOTTED LINES INDICATE LOCATIONS WHERE ADDITIONAL LOTS OR WHERE ADDITIONAL LITEMS MAY BE STORED, THAT ARE FROM THE LOT OR LOTS WHICH ARE DIRECTLY OR ALMOST DIRECTLY ACROSS THE CENTER AISLE ON THE OTHER SIDE OF THE MAGAZINE, COMPLIANCE WITH ALL OF THE MULTIPLE LOT CRITERIA AS SET FORTH ON THIS PAGE MUST BE OBSERVED. THE SIZE OF THE LOTS BEING STORED AND THE CRITERIA OF SPECIAL NOTE 5, RELATIVE TO "12 LIFTS", WILL BE MAJOR FACTORS IMPACTING ON THE NUMBER OF UNITS THAT CAN BE STORED IN AN "ADDITIONAL STORAGE LOCATION". MORE OR FEWER STACKS THAN SHOWN MAY BE STORED AT ANY ONE OF THE ADDITIONAL STORAGE LOCATIONS. A 13"-O" MHE OPERATING AREA HAS BEEN SPECIFIED FOR ACCESS TO EACH "ADDITIONAL STORAGE LOCATION" BY FORKLIFT TRUCK. THIS OPERATING AREA IS BASED ON REOULTEMENTS OF FORKLIFT TRUCKS COMMONLY USED IN STORAGE MAGAZINES. THE MHE OPERATING AREA CAN BE ENLARGED TO SUIT AVAILABLE FORKLIFT TRUCKS, AND SHOULD BE MADE SMALLER IF AVAILABLE HE PERMITS. A "CENTER AISLE" (SPACE BETWEEN STORAGE ON ONE SIDE OF A MAGAZINE AND AN "ADDITIONAL STORAGE LOCATION") IS TO BE AT LEAST 48 INCHES WIDE. AN AISLE SLIGHTLY WIDER THAN 48 INCHES WILL ENHANCE FORKLIFT TRUCK MOVEMENT WITHIN A MAGAZINE. HOWEVER, THIS AISLE SHOULD NOT BE MADE WIDER IF A LOSS OF STORAGE RESULTS.
- WHEN PALLET UNITS MUST BE HANDLED FROM THE BASE END OF THE BOMBS FOR PLACEMENT OR REMOVAL FROM A STACK, SUCH AS IN LOTS 1,8 AND 9, EACH LOT MUST BE STORED TWO (2) UNITS (MINIMUM) WIDE TO ACCOMODATE WIDTH OF MHE DURING OPERATIONS, EXCEPT FOR A ROW ADJACENT TO AN MHE OR ACCESS AISLE.

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TYPICAL MULTIPLE-LOT STORAGE IN IGLOD AND ARCH TYPE MAGAZINES



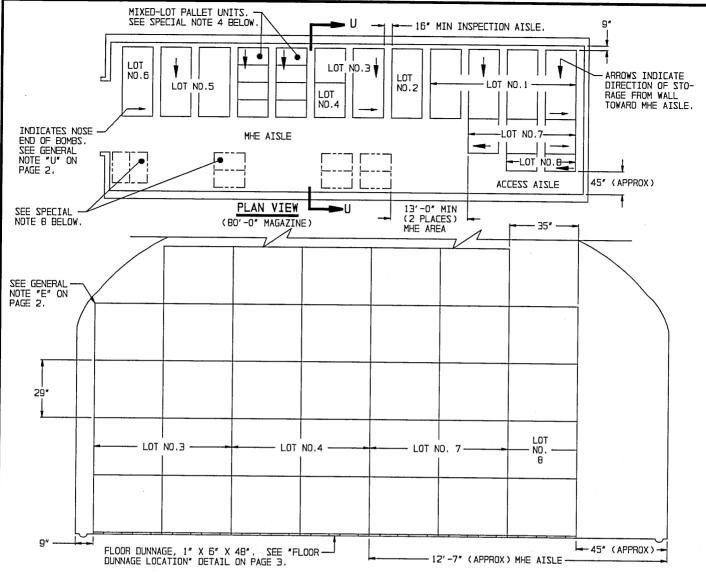
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- 2. AN INSPECTION/INVENTORY AISLE NOT LESS THAN 16" WIDE MUST BE PROVIDED AT THE NOSE END AND AT THE BASE END OF THE BOMBS.
- 3. GENERALLY, THE LARGEST LOT SHOULD BE STORED IN THE REAR OF THE MAGAZINE. HOWEVER, THE REAR AREA MAY BE USED TO STORE MORE THAN ONE LOT BY ERECTING ROWS SIMILAR TO THOSE SHOWN IN THE FRONTAL AREA. A CENTER AISLE WILL NOT BE REQUIRED IN THE REAR AREA AS LONG AS EACH LOT IS ACCESSIBLE FOR REMOVAL AND INSPECTION/INVENTORY IN ACCORDANCE WITH OTHER CRITERIA SPECIFIED IN THESE SPECIAL NOTES AND IN THE GENERAL NOTES ON PAGE 2.

(CONTINUED AT RIGHT)

(SPECIAL NOTES CONTINUED)

- EACH LOT WITHIN THE MAGAZINE MUST BE ACCESSIBLE FOR MOVEMENT BY MHE. A SINGLE-LOT OF PALLET UNITS IS CONSIDERED "ACCES-SIBLE" IF NOT MORE THAN TWELVE (12) "LIFTS" OF ANOTHER LOT OR LOTS HAVE TO BE MADE TO GAIN ACCESS TO THAT LOT. A "LIFT" MAY CONSIST OF ONE (1) OR MORE PALLET UNITS, PRO-VIDING THE CAPACITY OF MHE PERMITS, AND SAFE HANDLING IS NOT JEOPARDIZED.
- 5. FOR STORAGE OF MULTIPLE LOTS, THE DISTANCE FROM THE SIDEWALL WILL BE BASED ON THE OVERHEAD CLEARANCE REQUIRED FOR MHE.
- 6. WHEN TWO LOTS ARE STORED ADJACENT TO EACH OTHER, WITH UNITS OF ONE LOT HAVING BOMBS PARALLEL TO AND SIDE BY SIDE WITH THE BOMBS IN THE OTHER LOT, THEY SHOULD BE SEPARATED BY AT LEAST 1" TO PROVIDE CLEARANCE FOR REMOVAL OF EITHER LOT.
- EACH LOT MUST BE STORED TWO (2) UNITS (MINIMUM) WIDE TO ACCOMMODATE WIDTHS OF MHE DURING OPERATIONS, EXCEPT FOR A ROW ADJACENT TO A CENTER/ACCESS AILSE.

TYPICAL MULTIPLE-LOT STORAGE IN STRADLEY AND OVAL ARCH TYPE MAGAZINES



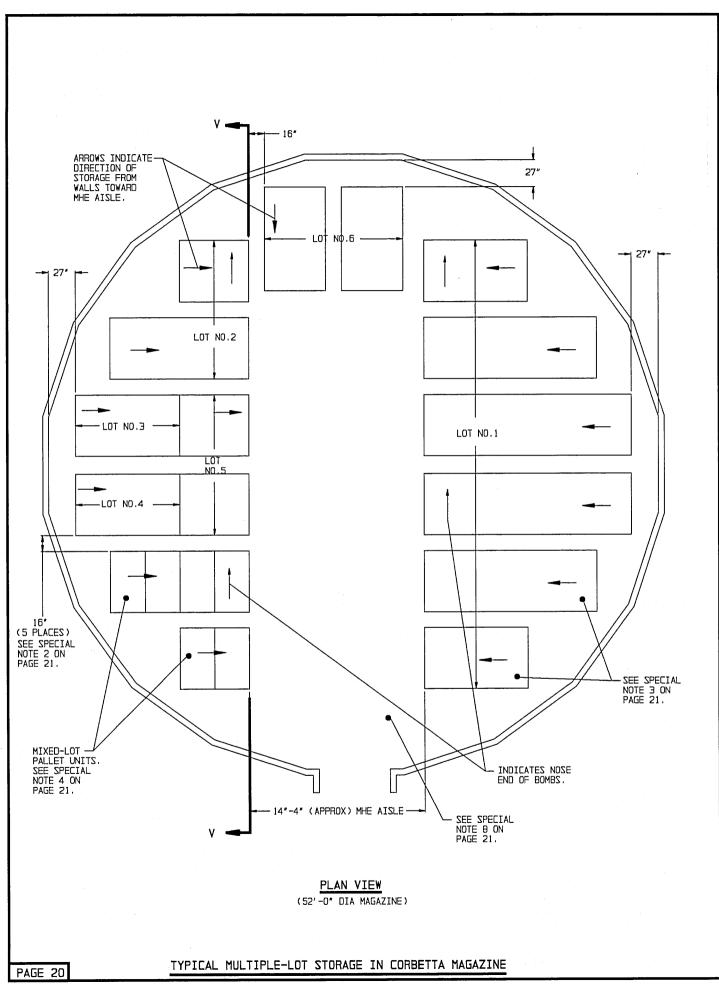
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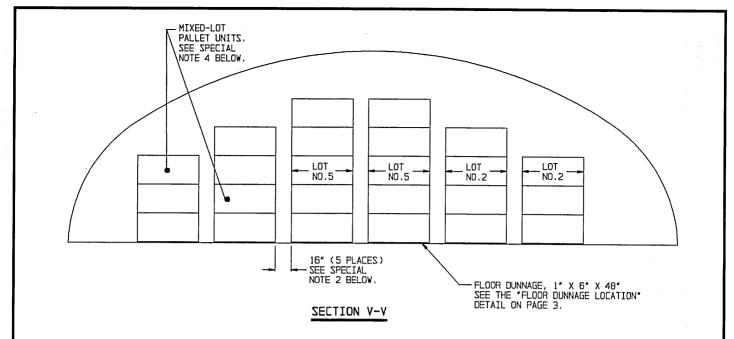
(SPECIAL NOTES CONTINUED)

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- 2. AN INSPECTION/INVENTORY AISLE NOT LESS THAN 16" WIDE MUST BE PROVIDED AT THE NOSE END AND AT THE BASE END OF THE BOMBS.
- 3. GENERALLY THE LARGEST LOT SHOULD BE STORED IN THE REAR OF THE MAGAZINE. HOWEVER, THE REAR AREA MAY BE USED TO STORE MORE THAN ONE LOT BY ERECTING STACKS SIMILAR TO THOSE SHOWN IN THE FRONTAL AREA. AN MHE ALIZLE WILL BE REQUIRED ON ONE SIDE OF THE MAGAZINE, AND EACH LOT MUST BE ACCESSIBLE FOR REMOVAL AND INSPECTION/INVENTORY IN ACCORDANCE WITH OTHER CRITERIA SPECIFIED IN THESE SPECIAL NOTES AND IN THE GENERAL NOTES ON PAGE 2.
- 4. A MIXED-LOT PALLET UNIT MAY HAVE FROM TWO LOTS PER PALLET UNIT UPWARDS TO AS MANY DIFFERENT LOTS AS BOMBS WITHIN THAT UNIT. HOWEVER, ALL BOMBS AND LOTS WITHIN THE PALLET UNIT MUST HAVE THE SAME NATIONAL STOCK NUMBER AND CONDITION CODE.
- 5. EACH LOT WITHIN THE MAGAZINE MUST BE ACCESSIBLE FOR MOVE-MENT BY MHE. PALLET UNITS OF A SINGLE-LOT OR MIXED-LOT PALLET UNITS ARE CONSIDERED "ACCESSIBLE" IF NO MORE THAN TWELVE (12) "LIFTS" OF ANOTHER LOT OR LOTS HAVE TO BE MADE TO GAIN ACCESS TO THE SINGLE-LOT OR MIXED-LOT UNITS. A "LIFT" MAY CONSIST OF ONE (1) OR MORE PALLET UNITS, PROVIDING THE CAPACITY OF MHE PERMITS AND SAFE HANDLING IS NOT JEOPARDIZED. 9.
- 6. FOR STORAGE OF MULTIPLE LOTS, THE DISTANCE FROM THE SIDEWALL WILL BE BASED ON THE OVERHEAD CLEARANCE REQUIRED FOR MHE.
 (CONTINUED AT RIGHT)

- 7. WHEN TWO LOTS ARE STORED ADJACENT TO EACH OTHER, WITH UNITS OF ONE LOT HAVING BOMBS PARALLEL TO AND SIDE BY SIDE WITH THE BOMBS IN THE OTHER LOT, THEY SHOULD BE SEPARATED BY AT LEAST 1" TO PROVIDE CLEARANCE FOR REMOVAL OF EITHER LOT.
- AREAS INCLOSED BY DOTTED LINES INDICATE LOCATIONS WHERE ADDITIONAL LOTS MAY BE STORED OR WHERE ADDITIONAL ITEMS MAY BE STORED, THAT ARE FROM THE LOT OR LOTS WHICH ARE DIRECTLY OR ALMOST DIRECTLY ACROSS THE CENTER AISLE ON THE OTHER SIDE OF THE MAGAZINE. COMPLIANCE WITH ALL OF THE MULTIPLE LOT CRITERIA AS SET FORTH ON THIS PAGE MUST BE OBSERVED. THE SIZE OF LOTS BEING STORED AND THE CRITERIA OF SPECIAL NOTE 5, RELATIVE TO '12 LIFTS', WILL BE MAJOR FACTORS IMPACTING ON THE NUMBER OF UNITS THAT CAN BE STORED IN AN "ADDITIONAL STORAGE LOCATION". MORE OR FEWER STACKS THAN SHOWN MAY BE STORED AT ANY ONE OF THE ADDITIONAL STORAGE LOCATIONS. A 13'-O" MHE OPERATING AREA HAS BEEN SPECIFIED FOR ACCESS TO EACH "ADDITIONAL STORAGE LOCATION" BY FORKLIFT TRUCK. THIS OPERATING AREA IS BASED ON REQUIREMENTS OF FORKLIFT TRUCKS. COMMONLY USED IN STORAGE MAGAZINES. THE MHE OPERATING AREA CAN BE ENLARGED TO SUIT AVAILABLE FORKLIFT TRUCKS, AND SHOULD BE MADE SMALLER IF AVAILABLE MHE PERMITS. A "CENTER AISLE" (SPACE BETWEEN STORAGE ON ONE SIDE OF A MAGAZINE AND AN "ADDITIONAL STORAGE LOCATION") IS TO BE AT LEAST 48 INCHES WIDE. AN AISLE SLIGHTLY WIDER THAN 48 INCHES WILL ENHANCE FORKLIFT TRUCK MOVEMENT WITHIN A MAGAZINE; HOWEVER, THIS AISLE SHOULD NOT BE MADE WIDER IF A LOSS OF STORAGE RESULTS.
- WHEN PALLET UNITS MUST BE HANDLED FROM THE BASE END OF THE BOMBS FOR PLACEMENT OR REMOVAL FROM A STACK, SUCH AS IN LOTS 1,7 AND B, EACH LOT MUST BE STORED TWO (2) UNITS (MINIMUM) WIDE TO ACCOMODATE WIDTH OF MHE DURING OPERATIONS, EXCEPT FOR A ROW ADJACENT TO AN MHE OR ACCESS AISLE.

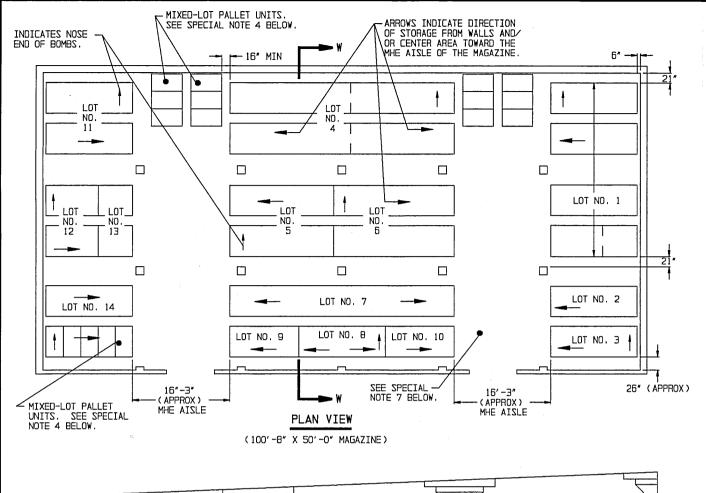
TYPICAL MULTIPLE-LOT STORAGE IN STRADLEY AND OVAL ARCH TYPE MAGAZINES

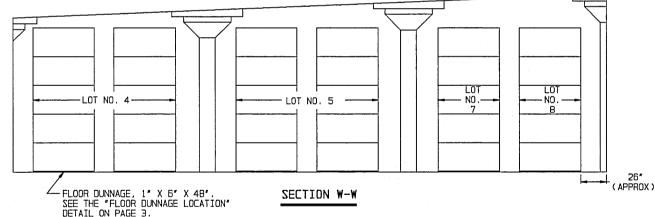




- THE STORAGE PLANS AND CONFIGURATIONS SHOWN ARE TYPICAL ONLY, ADAPTATIONS MAY BE MADE AS NUMBER AND SIZES OF LOTS TO BE STORED IN MAGAZINE REQUIRE.
- 2. AN INSPECTION/INVENTORY AISLE NOT LESS THAN 16" WIDE MUST BE PROVIDED AT THE NOSE END AND AT THE BASE END OF THE BOMBS.
- 3. GENERALLY, THE LARGEST LOT SHOULD BE STORED ON ONE SIDE OF THE MAGAZINE. HOWEVER, BOTH SIDES MAY BE USED TO STORE MORE THAN ONE LOT BY ERECTING ROWS SIMILAR TO THOSE SHOWN ON THE LEFT SIDE. EACH ADDITIONAL LOT MUST BE ACCESSIBLE FOR REMOVAL AND INSPECTION/INVENTORY IN ACCORDANCE WITH OTHER CRITERIA SPECIFIED IN THESE SPECIAL NOTES AND THE GENERAL NOTES ON PAGE 2.
- 4. A MIXED-LOT PALLET UNIT MAY HAVE FROM TWO LOTS PER PALLET UNIT UPWARDS TO AS MANY DIFFERENT LOTS AS BOMBS WITHIN THAT UNIT. HOWEVER, ALL BOMBS AND LOTS WITHIN THE PALLET UNIT MUST HAVE THE SAME NATIONAL STOCK NUMBER AND CONDITION CODE.
- 5. EACH LOT WITHIN THE MAGAZINE MUST BE ACCESSIBLE FOR MOVEMENT BY MHE. PALLET UNITS OF A SINGLE-LOT OR MIXED-LOT PALLET UNITS ARE CONSIDERED "ACCESSIBLE" IF NOT MORE THAN TWELVE (12) "LIFTS" OF ANOTHER LOT OR LOTS HAVE TO BE MADE TO GAIN ACCESS TO THE SINGLE-LOT OR MIXED-LOT UNITS. A "LIFT" MAY CONSIST OF ONE (1) OR MORE PALLET UNITS, PROVIDING THE CAPACITY OF MHE PERMITS, AND SAFE HANDLING IS NOT JEOPARDIZED.
- 6. FOR STORAGE OF MULTIPLE LOTS, THE DISTANCE FROM THE SIDEWALL WILL BE BASED ON THE OVERHEAD CLEARANCE REQUIRED FOR MHE.
- 7. WHEN TWO LOTS ARE STORED ADJACENT TO EACH OTHER, WITH UNITS OF ONE LOT HAVING BOMBS PARALLEL TO AND SIDE BY SIDE WITH THE BOMBS IN THE OTHER LOT, THEY SHOULD BE SEPARATED BY AT LEAST 1" TO PROVIDE CLEARANCE FOR REMOVAL OF EITHER LOT.
- B. THE MHE AISLE MAY BE USED TO STORE ONE OR MORE STACKS OF ADDITIONAL LOTS OR ADDITIONAL ITEMS THAT ARE FROM A LOT ADJACENT TO THE MHE AISLE. THIS ADDITIONAL STORAGE IS TO BE ARRANGED IN A MANNER SIMILAR TO ARRANGEMENTS DEPICTED ON PAGES 17 AND 19 FOR THE "ADDITIONAL STORAGE LOCATIONS" (SHOWN BY DOTTED LINES). ADEQUATE SPACE FOR MHE OPERATION, AS DESCRIBED ON PAGES 17 AND 19, MUST BE MADE AVAILABLE FOR THE ADDITIONAL STORAGE. ALSO COMPLIANCE WITH ALL OF THE MULTIPLE LOT CRITERIA AS SET FORTH ON THIS PAGE MUST BE OBSERVED.

TYPICAL MULTIPLE-LOT STORAGE IN CORBETTA MAGAZINE





- THE STORAGE PLANS AND CONFIGURATIONS SHOWN ON THIS PAGE ARE TYPICAL ONLY, ADAPTATIONS MAY BE MADE AS NUMBER AND SIZES OF LOTS TO BE STORED IN MAGAZINE REQUIRE.
- AN INSPECTION AISLE NOT LESS THAN 16" WIDE MUST BE PRO-VIDED AT THE NOSE END AND AT THE BASE END OF THE BOMBS.
- 3. GENERALLY, THE LARGEST LOT SHOULD BE STORED IN THE REAR OR ON ONE SIDE OF THE MAGAZINE. HOWEVER, THESE AREAS MAY BE USED TO STORE MORE THAN ONE LOT BY ERECTING ROWS SIMILAR TO THOSE SHOWN ON THE LEFT SIDE AND IN THE CENTER AREA OR AS TYPICALLY INDICATED BY DOTTED LINES. EACH ADDITIONAL LOT MUST BE ACCESSIBLE FOR REMOVAL AND INSPECTION/INVENTORY IN ACCORDANCE WITH OTHER CRITERIA SPECIFIED IN THESE SPECIAL NOTES AND IN THE GENERAL NOTES ON PAGE 2.
- 4. A MIXED-LOT PALLET UNIT MAY HAVE FROM TWO LOTS PER PALLET UNIT UPWARDS TO AS MANY DIFFERENT LOTS AS BOMBS WITHIN THAT UNIT. HOWEVER, ALL BOMBS AND LOTS WITHIN THE PALLET UNIT MUST HAVE THE SAME NATIONAL STOCK NUMBER AND CONDITION CODE.

(SPECIAL NOTES CONTINUED)

- EACH LOT WITHIN THE MAGAZINE MUST BE ACCESSIBLE FOR MOVEMENT BY MHE. PALLET UNITS OF A SINGLE-LOT OR MIXED-LOT PALLET UNITS ARE CONSIDERED "ACCESSIBLE" IF NOT MORE THAN TWENTY-FOUR (24) "LIFTS" OF ANOTHER LOT OR LOTS HAVE TO BE MADE TO GAIN ACCESS TO THE SINGLE-LOT OR MIXED-LOT UNITS. A "LIFT" MAY CONSIST OF ONE (1) OR MORE PALLET UNITS, PROVIDING THE CAPACITY OF THE MHE PERMITS, AND SAFE HANDLING IS NOT JEDPARDIZED.
- 6. WHEN TWO LOTS ARE STORED ADJACENT TO EACH OTHER, WITH UNITS OF ONE LOT HAVING BOMBS PARALLEL TO AND SIDE BY SIDE WITH THE BOMBS IN THE OTHER LOT, THEY SHOULD BE SEPARATED BY AT LEAST 1" TO PROVIDE CLEARANCE FOR REMOVAL OF EITHER LOT.
- 7. THE MHE AISLE MAY BE USED TO STORE ONE OR MORE STACKS OF ADDITIONAL LOTS, OR ADDITIONAL ITEMS THAT ARE FROM A LOT ADJACENT TO THE MHE AISLE. THIS ADDITIONAL STORAGE IS TO BE ARRANGED IN A MANNER SIMILAR TO ARRANGEMENTS DEPICTED ON PAGES 17 AND 19 FOR THE "ADDITIONAL STORAGE LOCATIONS" (SHOWN BY DOTTED LINES). ADEQUATE SPACE FOR MHE OPERATION, AS DESCRIBED ON PAGES 17 AND 19, MUST BE MADE AVAILABLE FOR THE ADDITIONAL STORAGE. ALSO COMPLIANCE WITH ALL OF THE MULTIPLE—LOT CRITERIA AS SET FORTH ON THIS PAGE MUST BE OBSERVED.

(CONTINUED AT RIGHT)

TYPICAL MULTIPLE-LOT STORAGE IN RECTANGULAR MAGAZINE