

STORAGE IN 60' & 80' IGLOO , 80' STRADLEY , AND 89' OVAL-ARCH MAGAZINES OF 4.2" CHEMICAL MORTAR ROUND, UNITIZED 36 BOXES PER PALLET UNIT AND 24 BOXES PER SKIDDED UNIT

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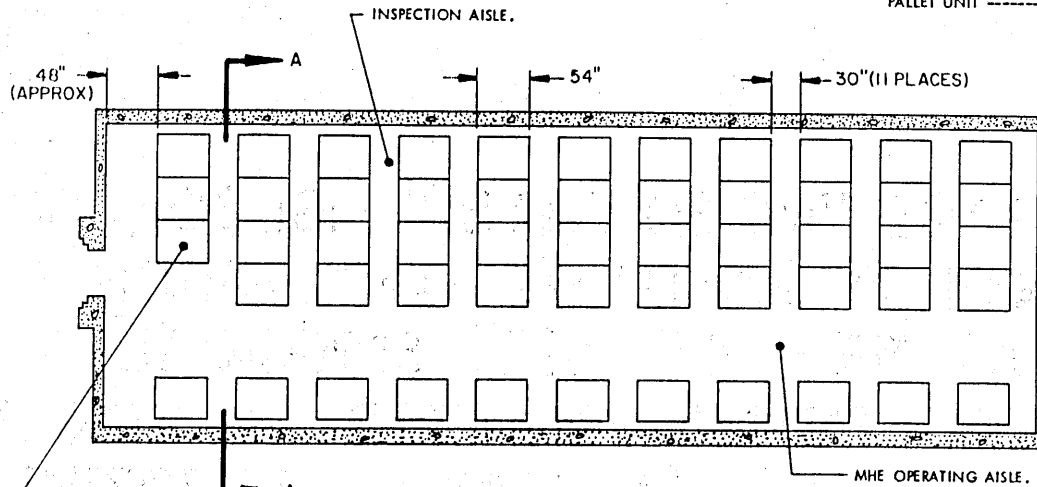
REVISIONS				DRAFTSMAN 19 dh CHECKER SGL/R.C. Sch. B. S. J.	PROJ. ENG. J.M.V./M.V.	LOG. ENGR. OFFICE	
1	FEB 77	<i>dh</i>	<i>Robert S. Chodura</i> <i>A. H. Ehinger</i>	<i>Robert S. Chodura</i> <i>Robert U. Smith</i>			
				APPROVED BY ORDER OF COMMANDING GENERAL, U. S. ARMY MATERIEL DEVELOPMENT AND READINESS COMMAND (DARCOM) <i>A. H. Ehinger</i> DARCOM AMMO CENTER			
				U. S. ARMY DARCOM DRAWING			
				OCTOBER 1976			
				CLASS	DIVISION	DRAWING	FILE
				19	48	4509	CBI-14- 22 PA2

**DO NOT SCALE**

STORAGE AS SHOWN

80' IGL00

ITEM QUANTITY  
PALLET UNIT ----- 129

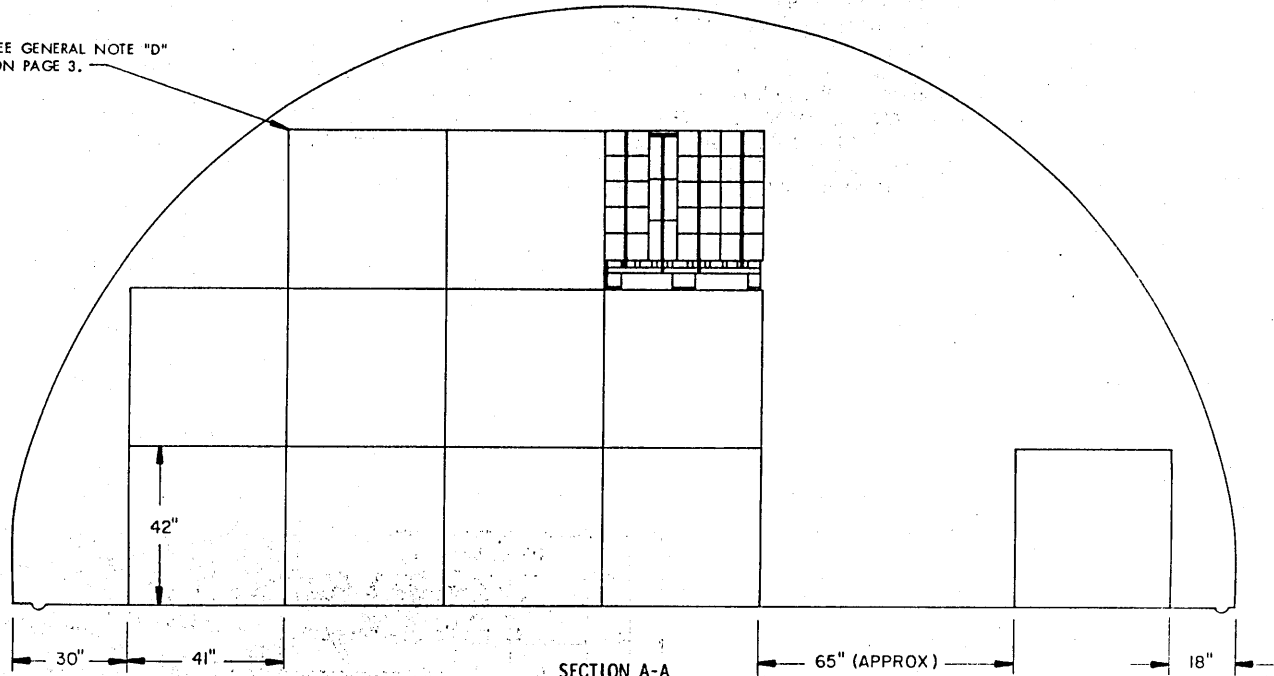


PLAN VIEW

(80' IGL00)

TO PROVIDE ADEQUATE OPERATING SPACE FOR MHE AT THE DOORWAY AREA, IT MAY BE NECESSARY TO OMIT THESE THREE UNITS.

SEE GENERAL NOTE "D" ON PAGE 3.



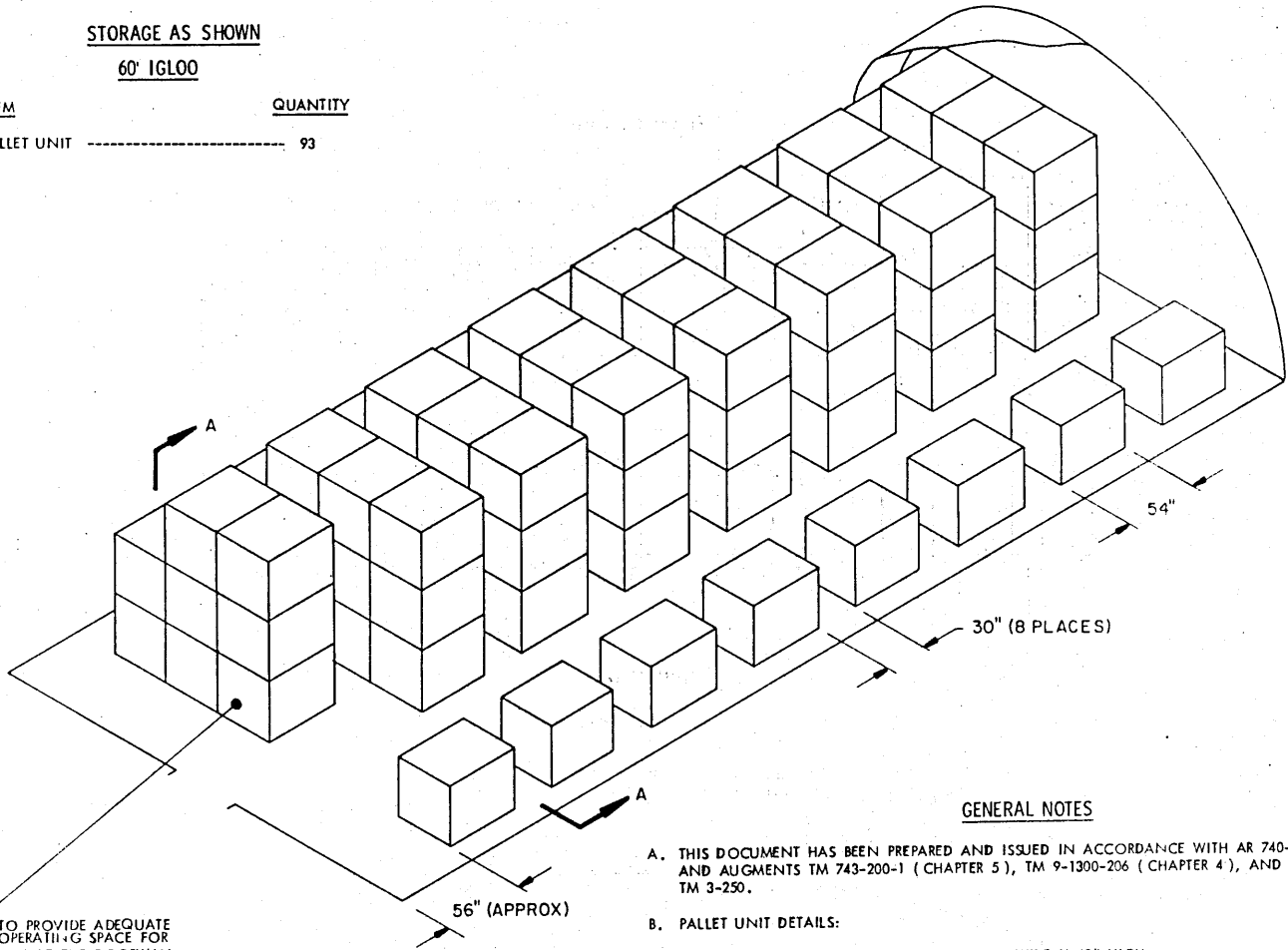
SECTION A-A

12 UNITS PER STACK.

**STORAGE AS SHOWN**

**60' IGLOO**

ITEM	QUANTITY
PALLET UNIT -----	93



TO PROVIDE ADEQUATE OPERATING SPACE FOR MHE AT THE DOORWAY AREA, IT MAY BE NECESSARY TO OMIT THESE THREE UNITS.

**ISOMETRIC VIEW**

(60' IGLOO)

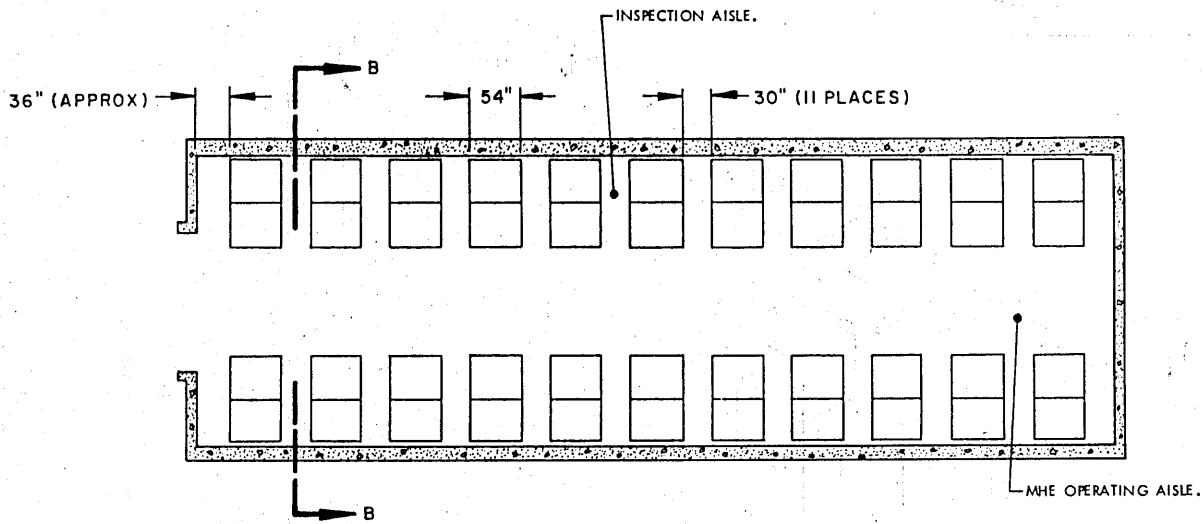
**GENERAL NOTES**

- A. THIS DOCUMENT HAS BEEN PREPARED AND ISSUED IN ACCORDANCE WITH AR 740-1, AND AUGMENTS TM 743-200-1 (CHAPTER 5), TM 9-1300-206 (CHAPTER 4), AND TM 3-250.
- B. PALLET UNIT DETAILS:  
 DIMENSIONS ----- 41" LONG X 54" WIDE X 42" HIGH.  
 GROSS WEIGHT ---- 2,615 POUNDS (APPROX).
- SKIDDED UNIT DETAILS:  
 DIMENSIONS ----- 44" LONG X 27" WIDE X 49" HIGH.  
 GROSS WEIGHT ---- 1,750 POUNDS (APPROX).
- C. AISLE DIMENSIONS SHOWN IN THIS DRAWING MAY BE ADJUSTED TO SUIT LOCAL CONDITIONS AND/OR AVAILABLE MATERIALS HANDLING EQUIPMENT; HOWEVER, THIRTY-INCH (30") MINIMUM ACCESS AISLES WILL BE PROVIDED, AS SHOWN, TO FACILITATE INSPECTION.
- D. STORED UNITS MUST NOT CONTACT THE WALL OF A MAGAZINE. TO PROVIDE FOR THIS MANDATORY CLEARANCE REQUIREMENT, UNITS MAY BE ELIMINATED FROM THE DEPICTED STORAGE PATTERN OR MINOR ADJUSTMENTS MAY BE MADE IN THE SPACING OF THE UNITS FROM THE SIDEWALLS, AS NECESSARY.
- E. THE MAXIMUM FLOOR LOAD FOR A MAGAZINE, AS PRESCRIBED BY LOCAL STANDARDS, WILL NOT BE EXCEEDED.
- F. THE STORAGE PROCEDURES DEPICTED HEREIN FOR SPECIFIC TYPES OF MAGAZINES MAY ALSO BE UTILIZED TO STORE UNITS IN OTHER TYPES OF APPROVED MAGAZINES. MINOR ADJUSTMENTS MAY BE MADE TO FACILITATE STORAGE IN OTHER TYPES OF MAGAZINES, HOWEVER, THE BASIC PRINCIPLES AS DEPICTED HEREIN WILL BE COMPLIED WITH.
- G. THE MAGAZINE MUST COMPLY WITH ALL REQUIREMENTS AND BE APPROVED FOR THE STORAGE OF CHEMICAL ITEMS.
- H. OTHER COMPATIBLE ITEMS MAY BE STORED IN A MAGAZINE WHICH IS PARTIALLY FILLED WITH THE DESIGNATED ITEM.
- J. A COMBINATION OF MATERIAL HANDLING EQUIPMENT (MHE), SUCH AS FORKLIFT TRUCKS, PALLET JACKS, AND OTHER APPROVED EQUIPMENT, MAY BE USED TO PLACE AND/OR REMOVE UNITS WITHIN A STACK. IF SUITABLE MHE IS NOT AVAILABLE TO PERMIT PLACING AND/OR REMOVAL OPERATIONS WITHIN THE DESIGNATED MHE OPERATING AISLE, IT MAY BE NECESSARY TO OMIT ONE ROW OF UNITS ADJACENT TO THE MHE OPERATING AISLE TO GAIN ADDITIONAL OPERATING SPACE. ALSO, IF SUITABLE NARROW AISLE STACKER MHE, IS AVAILABLE, IT IS PERMITTED TO ADD ONE ROW OF UNITS ADJACENT TO A CENTER AISLE TO GAIN INCREASED STORAGE DENSITY IN STRADLEY AND OVAL-ARCH MAGAZINES.
- K. REFER TO PAGE 14 FOR GUIDANCE RELATIVE TO LOT SEPARATION REQUIREMENTS WHEN STORING MULTIPLE LOTS WITHIN A MAGAZINE.
- L. THE STORAGE PROCEDURES DEPICTED FOR IGLOO MAGAZINES ARE ALSO APPLICABLE FOR STEEL ARCH MAGAZINES WHICH HAVE A SIMILAR CROSS SECTIONAL AREA.

**REVISION**

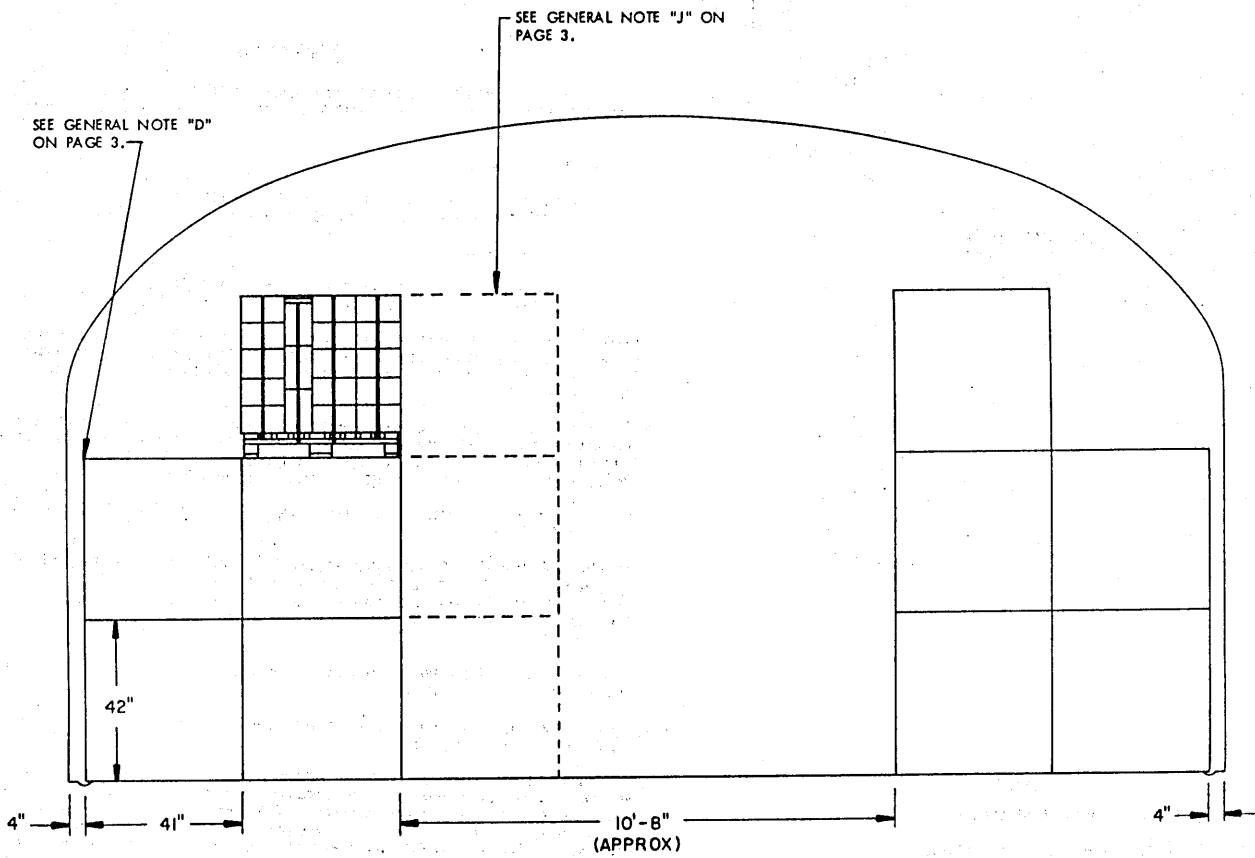
REVISION NO. 1, DATED FEB 1977, CONSISTS OF:

- 1. ADDING PROCEDURES FOR 36-BOX PALLET UNITS.



**PLAN VIEW**

(80' STRADLEY)



**SECTION B-B**

10 UNITS PER STACK.

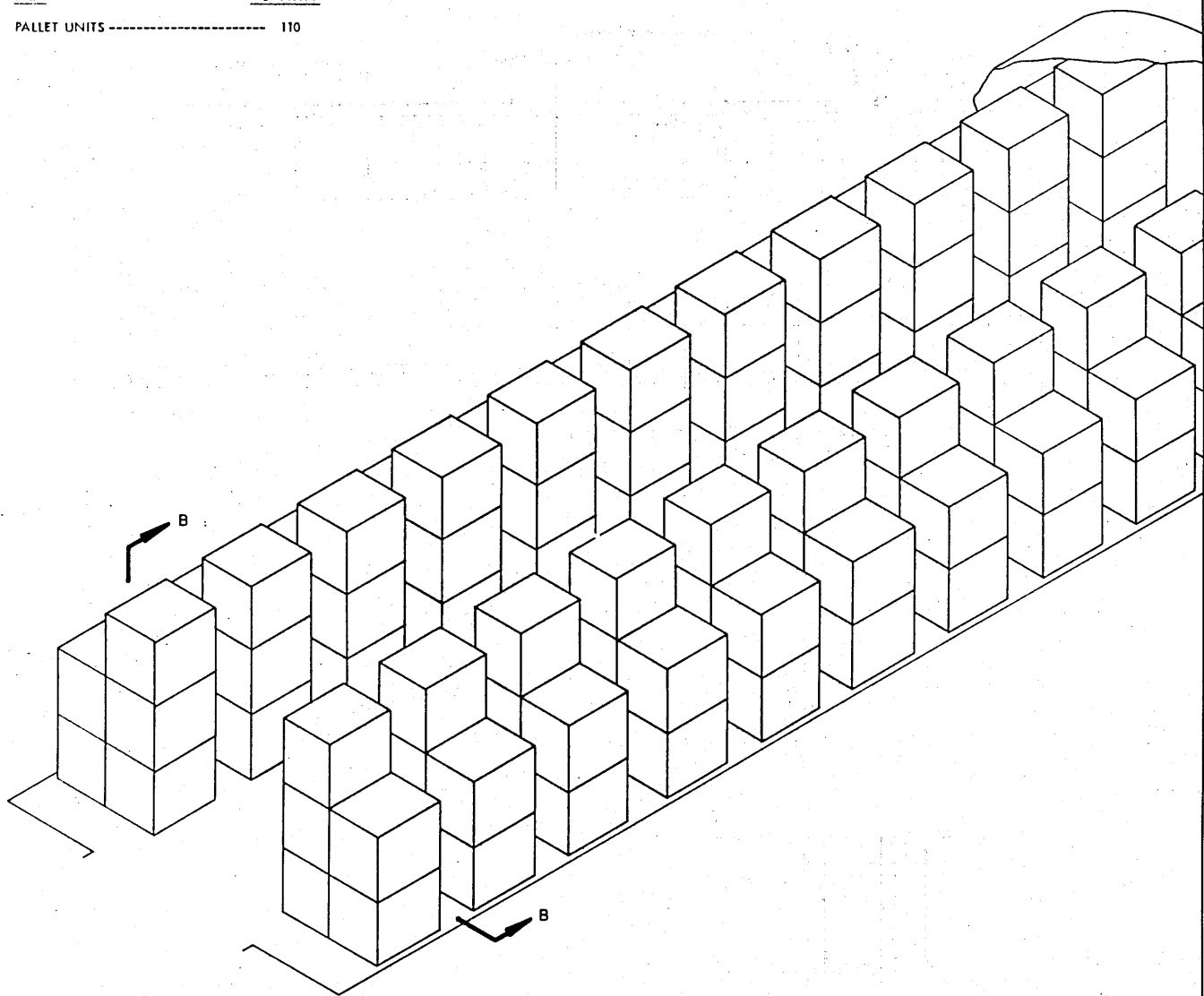
STORAGE AS SHOWN

80' STRADLEY

ITEM

QUANTITY

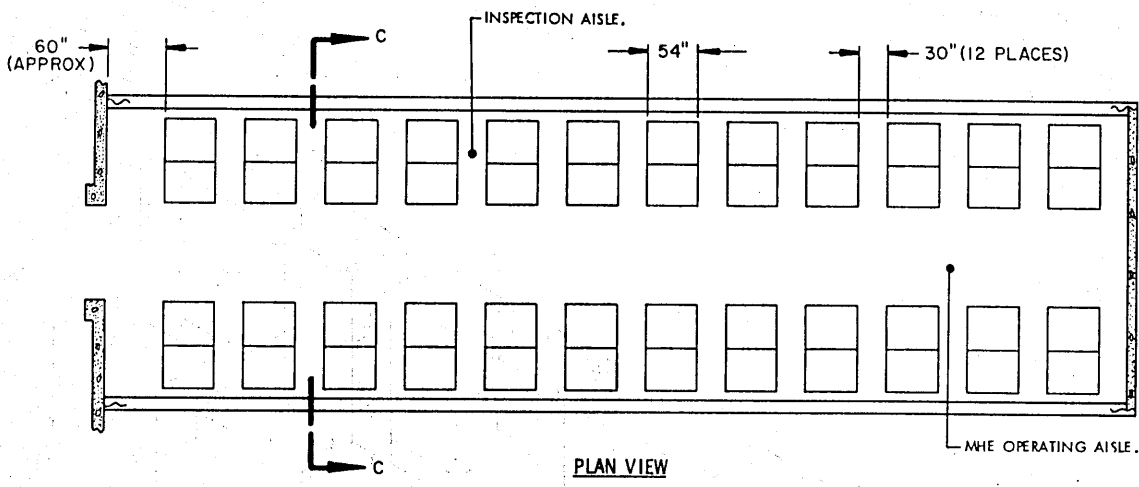
PALLET UNITS ----- 110



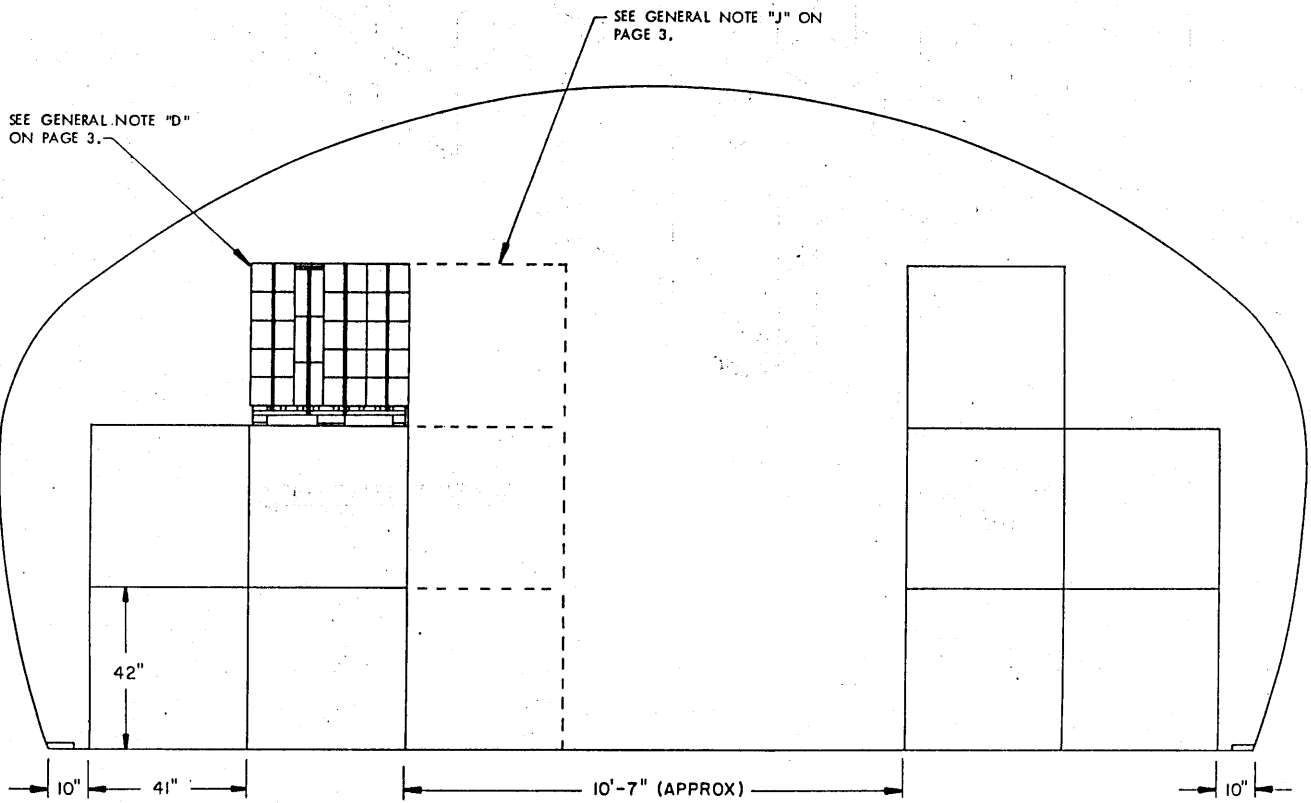
ISOMETRIC VIEW

(80' STRADLEY)

SEE "GENERAL NOTES" ON PAGE 3.



**PLAN VIEW**  
(89' OVAL-ARCH MAGAZINE)



**SECTION C-C**  
10 UNITS PER STACK.

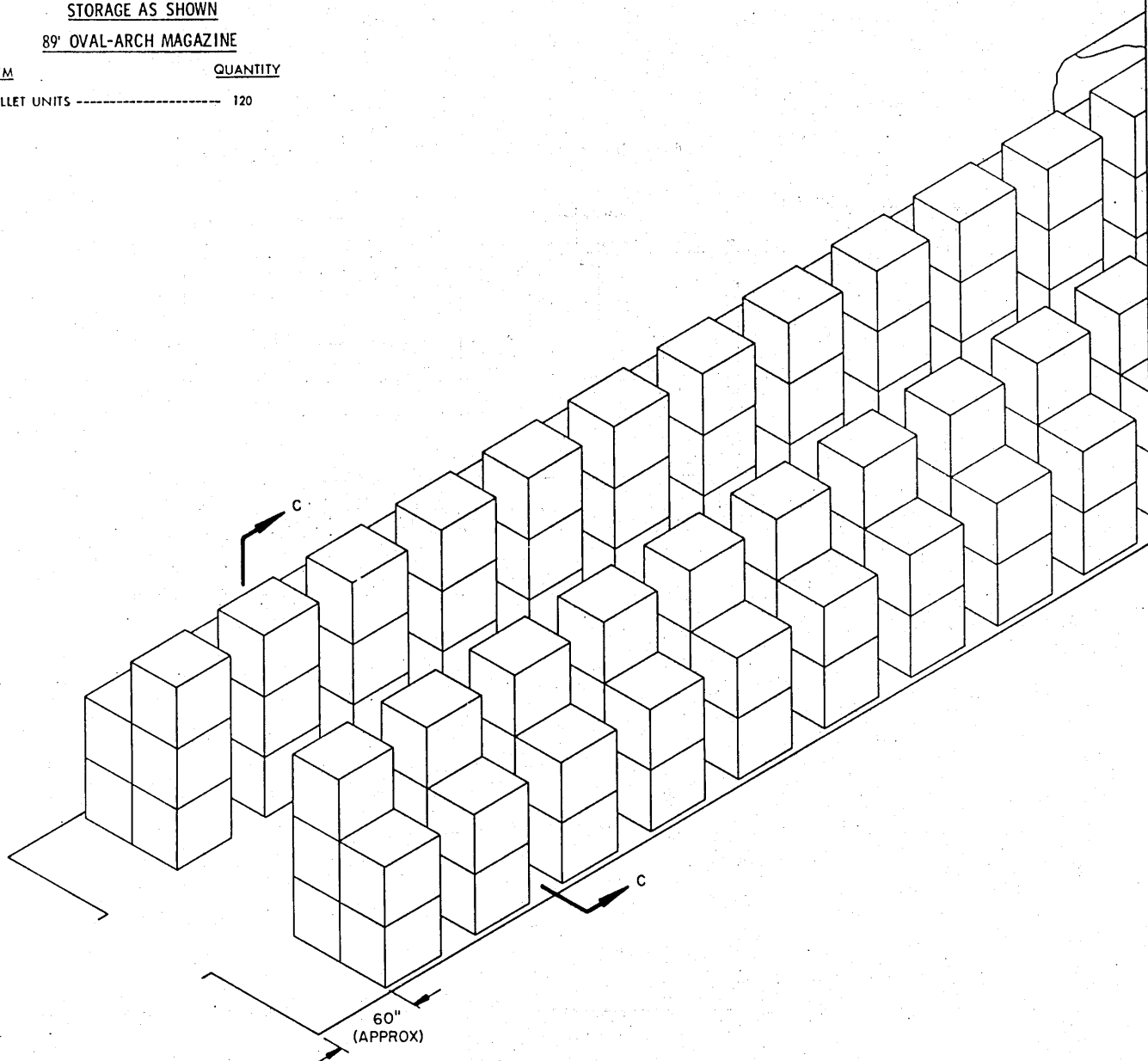
STORAGE AS SHOWN

89" OVAL-ARCH MAGAZINE

ITEM

QUANTITY

PALLET UNITS ----- 120



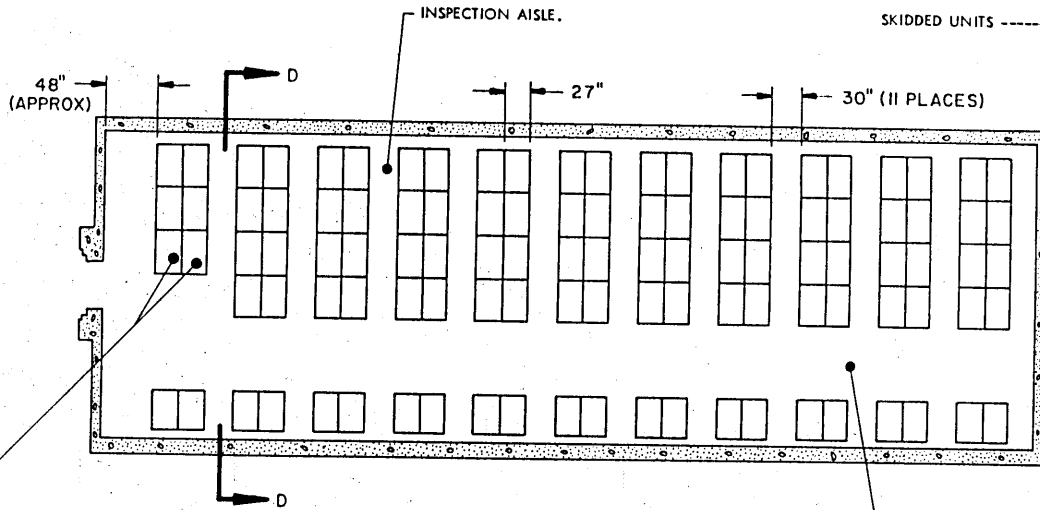
ISOMETRIC VIEW  
(89" OVAL-ARCH MAGAZINE)

SEE "GENERAL NOTES" ON PAGE 3.

STORAGE AS SHOWN

80' IGLOO

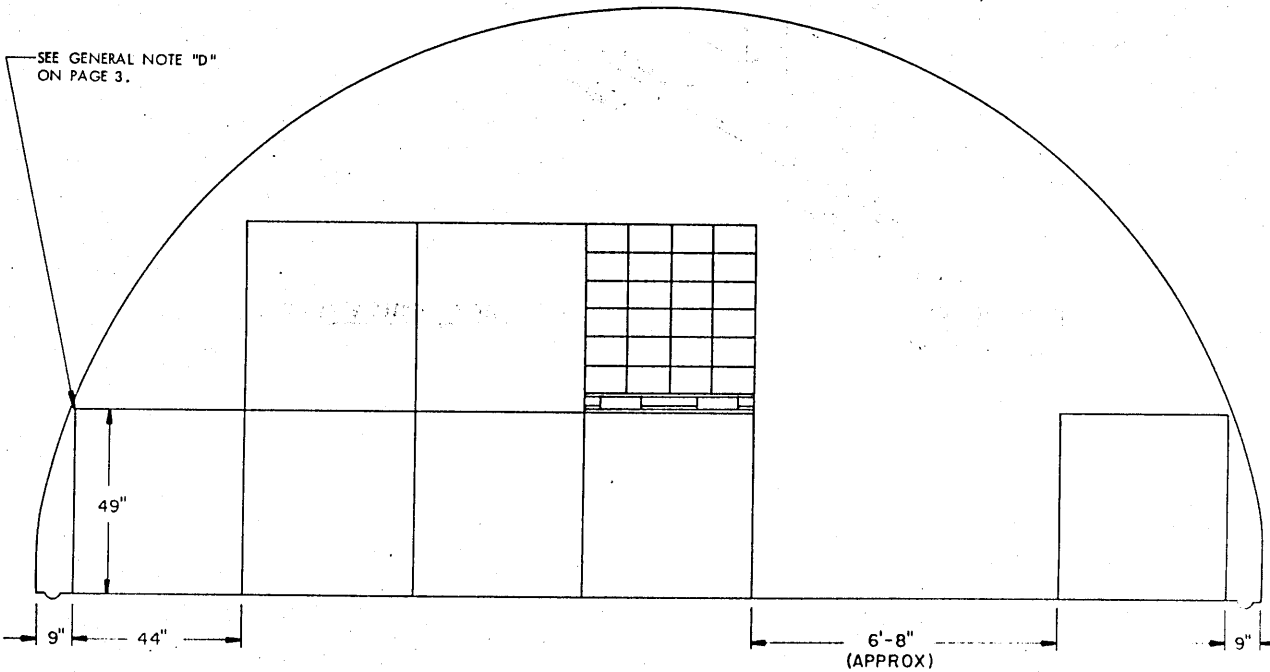
ITEM	QUANTITY
SKIDDED UNITS	172



PLAN VIEW  
(80' IGLOO)

TO PROVIDE ADEQUATE OPERATING SPACE FOR MHE AT THE DOORWAY AREA, IT MAY BE NECESSARY TO OMIT THESE TWO OR FOUR UNITS.

MHE OPERATING AISLE.



SEE GENERAL NOTE "D" ON PAGE 3.

SECTION D-D  
8 UNITS PER STACK.



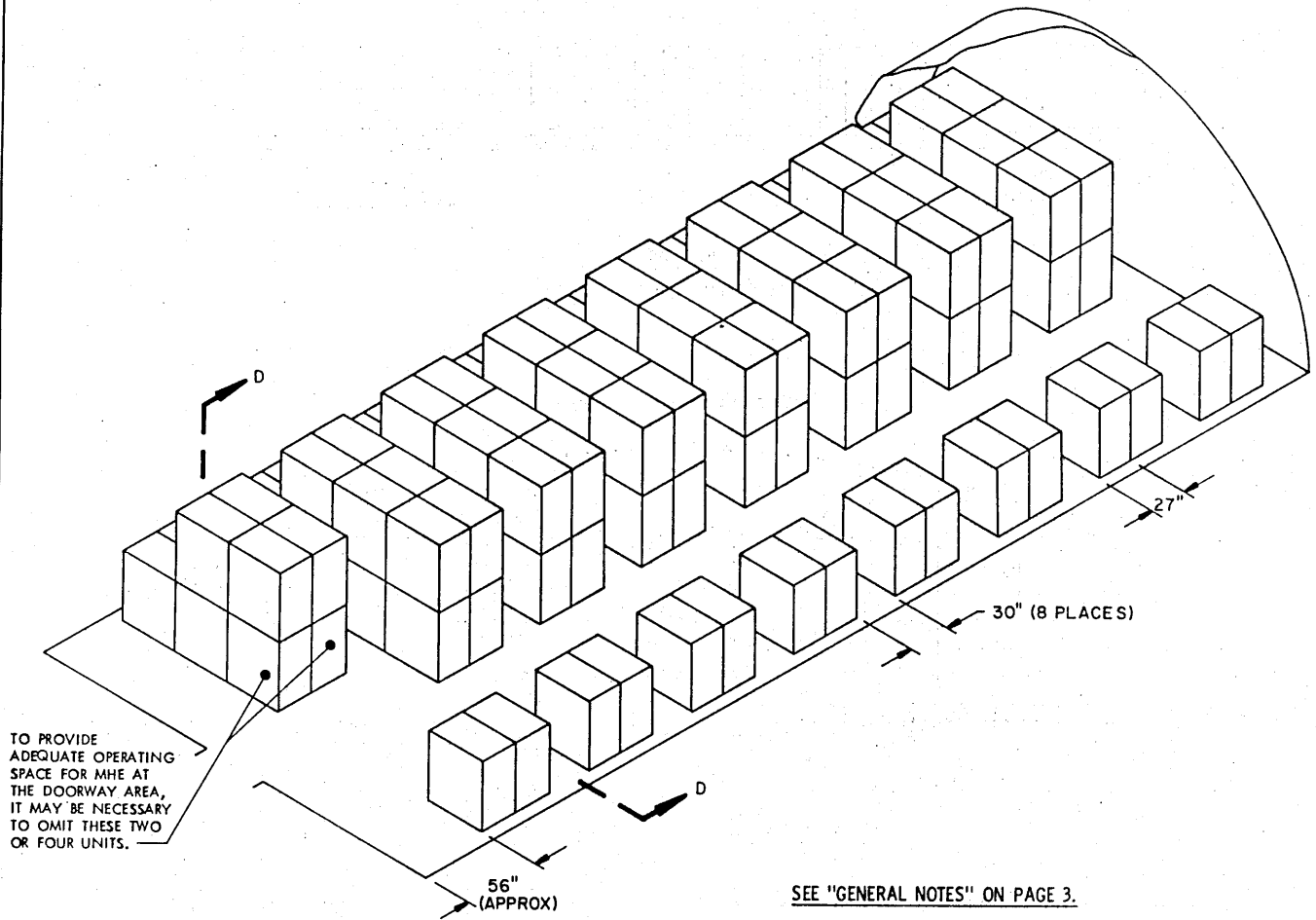
STORAGE AS SHOWN

60' IGLOO

ITEM

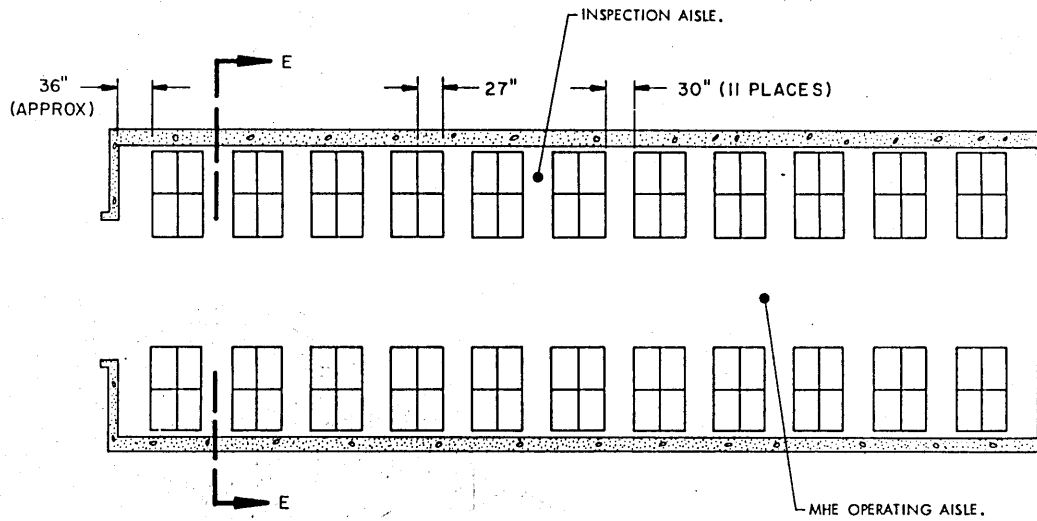
QUANTITY

SKIDDED UNITS ----- 124



ISOMETRIC VIEW

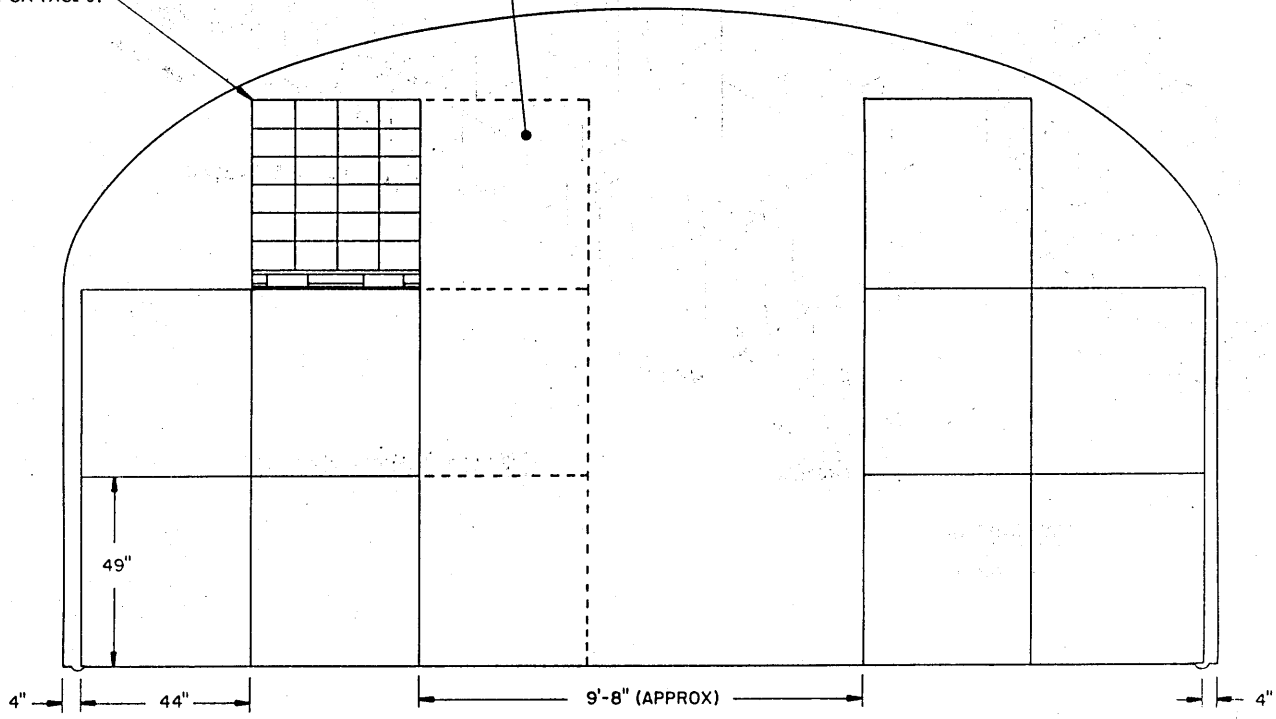
(60' IGLOO)



**PLAN VIEW**  
(80' STRADLEY)

SEE GENERAL NOTE "D"  
ON PAGE 3.

SEE GENERAL NOTE "J" ON PAGE 3.



**SECTION E-E**  
10 UNITS PER STACK.

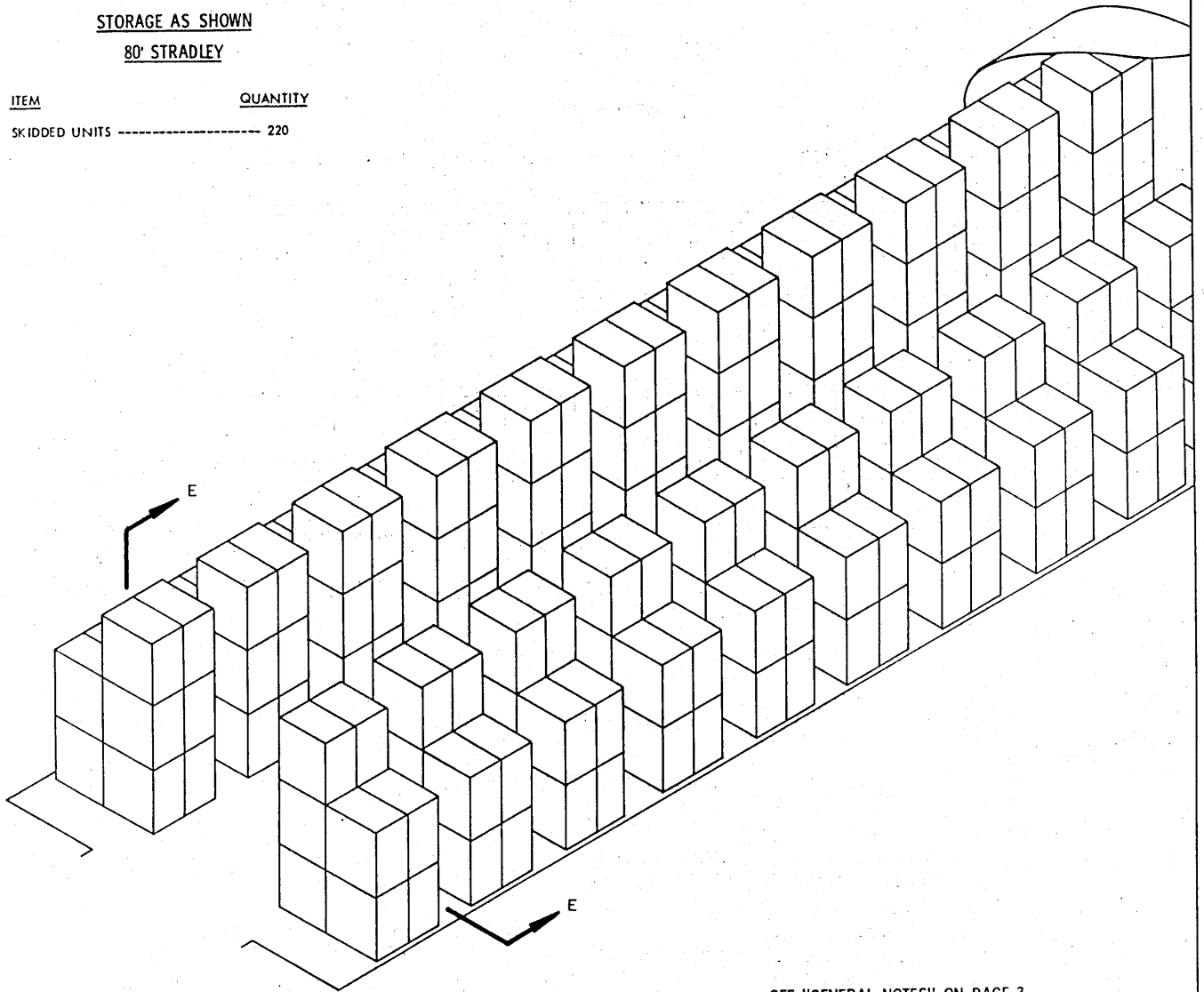
STORAGE AS SHOWN

80' STRADLEY

ITEM

QUANTITY

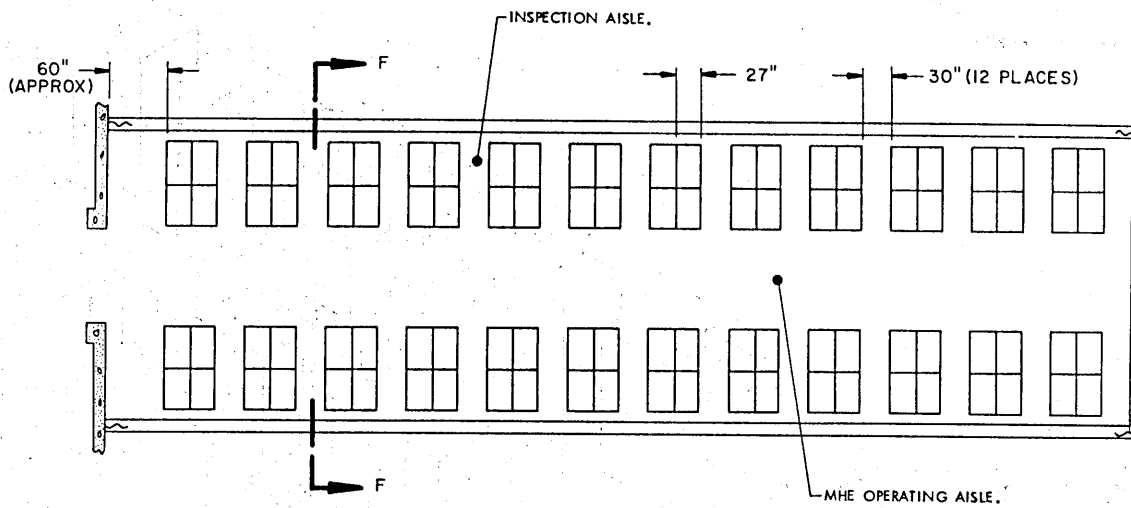
SKIDDED UNITS ----- 220



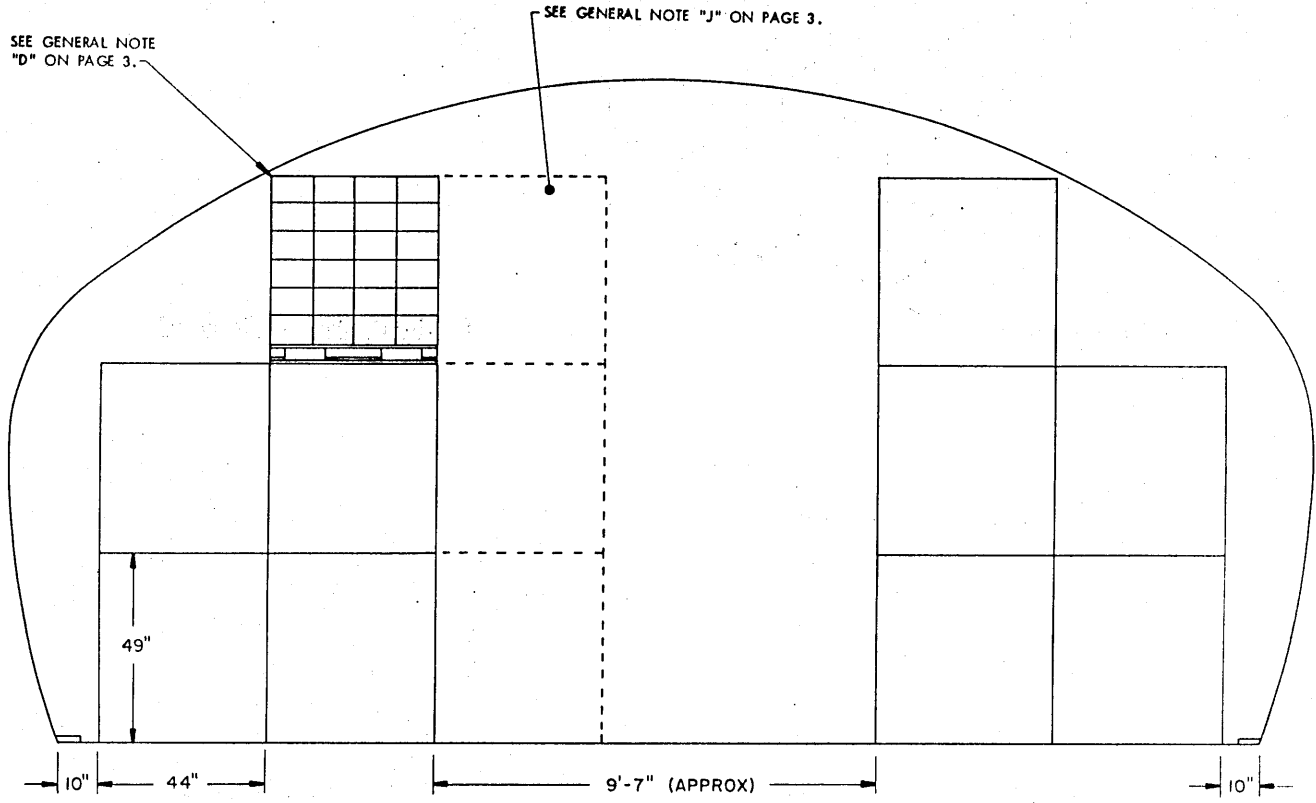
ISOMETRIC VIEW

(80' STRADLEY)

SEE "GENERAL NOTES" ON PAGE 3.



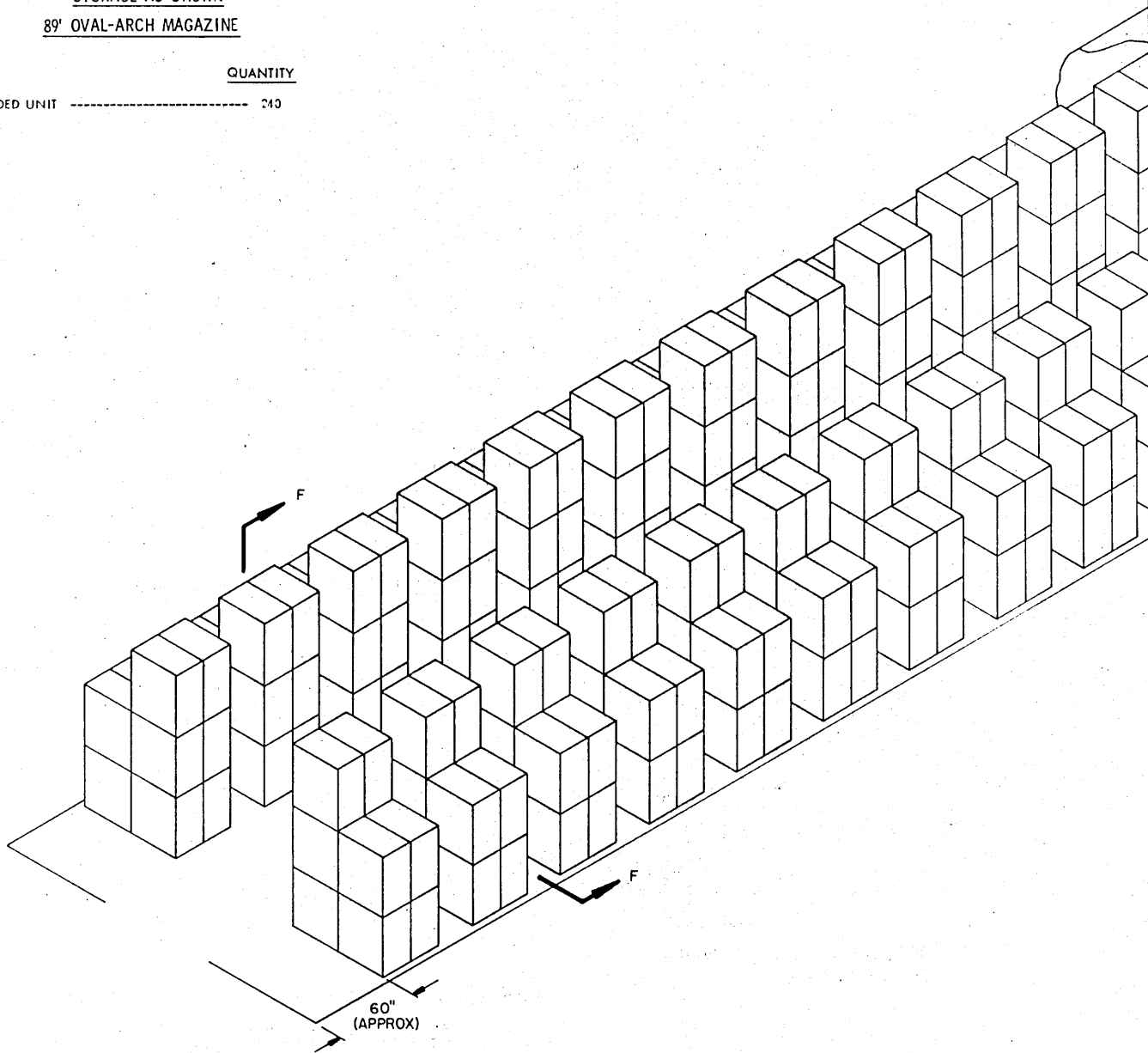
**PLAN VIEW**  
(80' OVAL-ARCH MAGAZINE)



**SECTION F-F**  
10 UNITS PER STACK.

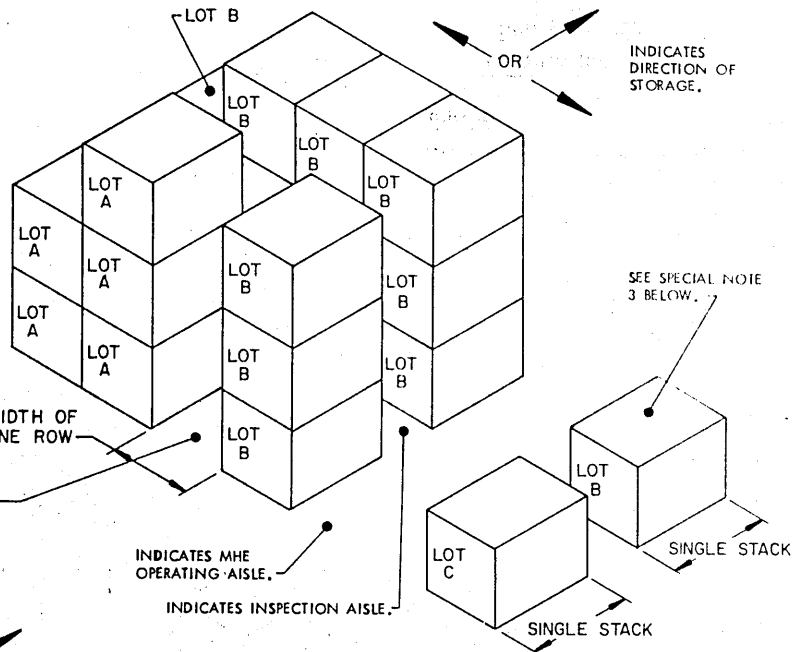
STORAGE AS SHOWN  
89' OVAL-ARCH MAGAZINE

<u>ITEM</u>	<u>QUANTITY</u>
SKIDDED UNIT -----	240

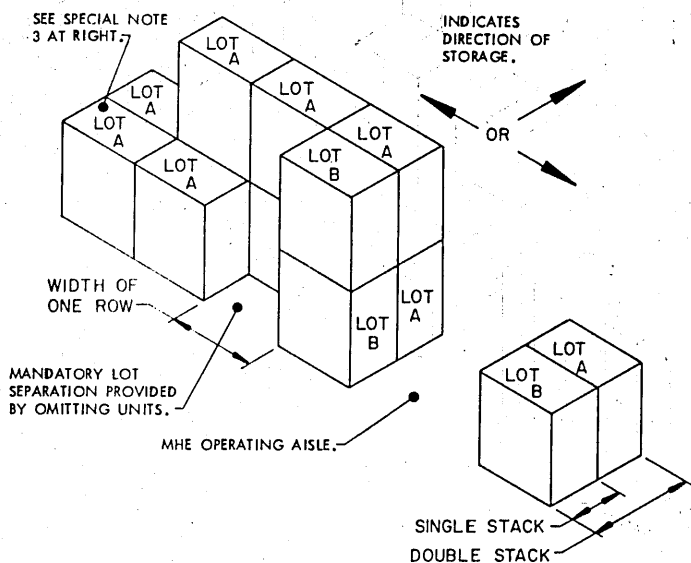


ISOMETRIC VIEW  
( 89' OVAL-ARCH MAGAZINE )

SEE "GENERAL NOTES" ON PAGE 3.



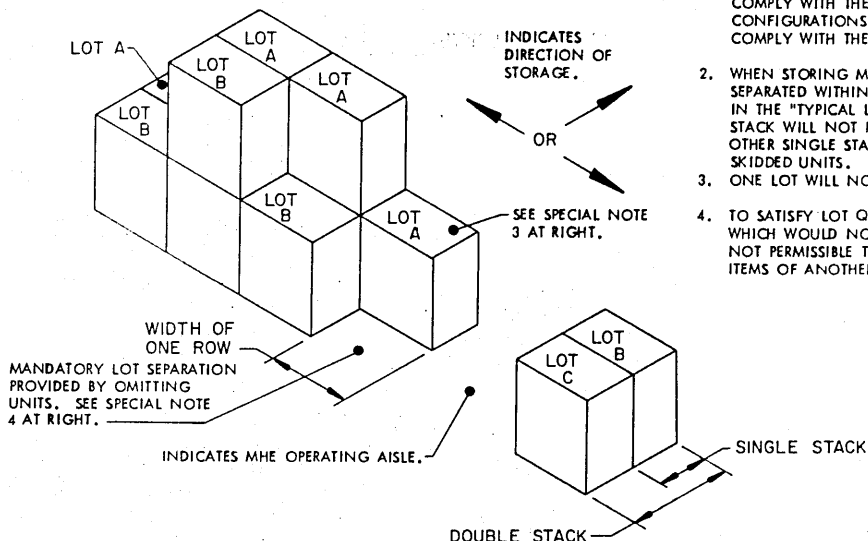
**TYPICAL LOT SEPARATION DETAIL 1 (PALLET UNIT)**  
(IGLOO STACK DEPICTED)



**TYPICAL LOT SEPARATION DETAIL 2 (SKIDDED UNIT)**  
(IGLOO STACK DEPICTED)

**SPECIAL NOTES:**

1. LOT SEPARATION WILL BE MAINTAINED WITHIN A STORAGE MAGAZINE. THE TYPICAL DETAILS ON THIS PAGE ILLUSTRATE POSSIBLE CONFIGURATIONS WHICH COMPLY WITH THE MANDATORY LOT SEPARATION REQUIREMENTS. OTHER CONFIGURATIONS MAY ALSO BE USED, PROVIDED THE OTHER CONFIGURATIONS COMPLY WITH THE BASIC REQUIREMENTS STATED HEREIN.
2. WHEN STORING MULTIPLE LOTS WITHIN A MAGAZINE, DIFFERENT LOTS WILL BE SEPARATED WITHIN A SINGLE STACK BY OMITTING UNITS IN THE MANNER SHOWN IN THE "TYPICAL LOT SEPARATION DETAILS". UNITS OF ONE LOT IN A SINGLE STACK WILL NOT REQUIRE SEPARATION FROM UNITS OF A DIFFERENT LOT IN THE OTHER SINGLE STACK OF A DOUBLE-STACK CONFIGURATION WHEN STORING SKIDDED UNITS.
3. ONE LOT WILL NOT BE STACKED ON TOP OF ANOTHER LOT.
4. TO SATISFY LOT QUANTITIES, IT MAY BE NECESSARY TO OMIT A ROW-STACK WHICH WOULD NORMALLY BE NEXT TO AN MHE OPERATING AISLE, SINCE IT IS NOT PERMISSIBLE TO STACK ITEMS OF ONE LOT IMMEDIATELY ADJACENT TO ITEMS OF ANOTHER LOT WITHIN THE SAME SINGLE STACK.



**TYPICAL LOT SEPARATION DETAIL 3 (SKIDDED UNIT)**  
(IGLOO STACK DEPICTED)