

# STORAGE IN AMMUNITION BUNKER (TYPE IIIA - 40' X 60') OF EXPLOSIVE ITEMS

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THIS DRAWING, INCLUDING REVISION 1, SUPERSEDES  
DRAWING 19-48-4109-3Q1000, DATED NOVEMBER 1974.

REVISIONS				DRAFTSMAN	pt	PROJ ENG	AMSM - LC-MM-OP
1	FEB 86	WRT WFE	<i>William F. Ernst</i>	<i>Br.</i>		<i>WFE</i>	<i>MS / EH</i>
				CHECKER		LOG ENGRG OFFICE	
				<i>WFE</i>		<i>WFE</i>	
APPROVED, U.S. ARMY MISSILE COMMAND							
<i>William F. Ernst</i>							
APPROVED BY ORDER OF COMMANDING GENERAL, U.S. ARMY MATERIAL COMMAND (AMC)							
<i>William F. Ernst</i>							
U.S. ARMY AMC DRAWING							
FEBRUARY 1986							
				CLASS	DIVISION	DRAWING	FILE
				19	48	4109	3Q 1000

**DO NOT SCALE**

PROJECT \_\_\_\_\_

## GENERAL NOTES

(UNIT DATA CONTINUED FROM PAGE 3)

- A. THIS DOCUMENT HAS BEEN PREPARED AND ISSUED IN ACCORDANCE WITH AMCR 740-13 AND AUGMENTS TM 743-200-1 (CHAPTER 5).
- B. THE TYPE OF STORAGE DEPICTED IN THIS DRAWING IS FOR AMMUNITION BUNKER (TYPE 111A-40' X 60') OF MIESAU ARMY DEPOT, HOWEVER, SIMILAR STORAGE PATTERNS MAY BE FOLLOWED FOR OTHER TYPES OF ABOVE GROUND OR EARTH COVERED MAGAZINES. THE QUANTITY OF ITEMS WILL DEPEND UPON THE INTERIOR OF EACH TYPE OF MAGAZINE ENCOUNTERED.
- C. THE STORAGE VIEWS SHOWN ARE TYPICAL ONLY AND MAY BE ADJUSTED AS NECESSARY TO SUIT EXISTING REQUIREMENTS. THE NUMBER OF ROWS AND THE QUANTITY OF UNITS PER ROW WILL VARY DEPENDENT UPON THE SIZE OF THE PARTICULAR UNIT BEING STORED. SEE NOTE "M" BELOW.
- D. AISLE DIMENSIONS AS SHOWN HEREIN MAY BE ADJUSTED TO SUIT LOCAL CONDITIONS AND/OR AVAILABLE MATERIALS HANDLING EQUIPMENT.
- E. **CAUTION:** THE ALLOWABLE "EXPLOSIVE LIMIT" ESTABLISHED FOR A MAGAZINE IS NOT TO BE EXCEEDED. THEREFORE, A QUANTITY REDUCTION FROM THAT SHOWN IN THE STORAGE VIEWS MAY BE NECESSARY. HOWEVER, IF THE "EXPLOSIVE LIMIT" FOR A MAGAZINE HAS NOT BEEN ATTAINED, AND UNUSED SPACE IS AVAILABLE, THE QUANTITY AS SHOWN MAY BE INCREASED ACCORDINGLY.
- F. **CAUTION:** ITEMS BEING STORED WHICH ARE IN A "PROPULSIVE STATE" MUST BE STORED WITH THE FORWARD END FACING TOWARDS THE REAR AND/OR SIDEWALL OF A MAGAZINE AS INDICATED BY THE DIRECTIONAL ARROWS ON THE STORAGE VIEWS.
- G. STORED CONTAINERS MUST NOT CONTACT THE WALL OR CEILING OF A MAGAZINE TO PROVIDE FOR THIS MANDATORY CLEARANCE REQUIREMENT, CONTAINERS MAY BE ELIMINATED FROM THE DEPICTED STACKING PATTERN AS NECESSARY.
- H. WHEN STORING ACCORDING TO LOT NUMBERS, THE LARGEST LOT SHOULD BE STORED IN THE REAR OF A MAGAZINE. LOTS WILL NOT BE MIXED WITHIN STACKS. A THREE INCH (3") (76MM) SEPARATION WILL BE ALLOWED BETWEEN ADJACENT LOTS.
- J. DUNNAGE LUMBER SPECIFIED THROUGHOUT THIS PROCEDURAL DRAWING IS OF NOMINAL SIZE. FOR EXAMPLE 2" X 4" MATERIAL IS ACTUALLY 1-1/2" (38MM) THICK BY 3-1/2" (89MM) WIDE.
- K. **NOTICE:** AN ACCESS AISLE, 22" (559MM) MINIMUM WIDTH, SHALL BE MAINTAINED LONGITUDINALLY AND Laterally ACROSS THE REAR OF THE MAGAZINE, FOR INSPECTION PURPOSES, AS DEPICTED WITHIN THIS PROCEDURAL DRAWING.
- L. STORAGE PROCEDURES DEPICTED ON PAGES 12 THRU 21 REQUIRE USE OF INTERMEDIATE DUNNAGE PIECES OF A SPECIFIC LENGTH. LENGTHS AS SPECIFIED PROVIDE STABILITY TO ITEMS IN TWO (2) OR MORE ADJACENT STACKS AND FACILITATE HANDLING AND STACKING OPERATIONS BY FORKLIFT TRUCK. WHEN PLACING THE LAST STACK(S) WITHIN A STORAGE BLOCK, IT MAY BE NECESSARY TO INCREASE OR REDUCE THE LENGTH OF THE DUNNAGE PIECES. HOWEVER, THE PIECES MUST BE OF A LENGTH THAT WILL PROVIDE STABILITY TO NOT LESS THAN TWO (2) ADJACENT STACKS.
- M. THIS GENERAL STORAGE PROCEDURAL DOCUMENT IS APPLICABLE TO THOSE SPECIFIC ITEMS AS IDENTIFIED ON PAGE 3; HOWEVER, THE DEPICTED PROCEDURES CAN ALSO BE USED FOR STORAGE OF OTHER AMMUNITION ITEMS. FOR THIS PURPOSE, A PROCEDURE SHOULD BE SELECTED FROM WITHIN THIS DOCUMENT WHICH BEST SATISFIES THE ITEM PACKAGING AND/OR CONFIGURATION.
- N. **CAUTION:** UNUNITIZED WIREBOUND CONTAINERS OR UNPALLETIZED ALUMINUM CONTAINERS MUST NOT BE STACKED MORE THAN NINE (9) CONTAINERS HIGH.

### BATS

CONTAINER DIMENSIONS ----- 210" LONG BY 18" WIDE BY 18" HIGH.  
GROSS WEIGHT ----- 250 POUNDS (APPROX).

### DRAGON

UNPALLETIZED  
CONTAINER DIMENSIONS -- 47-1/2" LONG BY 16" WIDE BY 16" HIGH.  
GROSS WEIGHT ----- 67 POUNDS (APPROX).  
PALLETIZED  
UNIT DIMENSIONS ----- 47-1/2" LONG BY 6'-8" WIDE BY 69" HIGH.  
GROSS WEIGHT ----- 1,460 POUNDS (APPROX).

### SS11-B1 (AGM 22B)

CONTAINER DIMENSIONS ----- 36" LONG BY 18-3/4" WIDE BY 20-1/2" HIGH.  
GROSS WEIGHT ----- 110 POUNDS (APPROX).  
EXPLOSIVE WEIGHT ----- 15 POUNDS (APPROX).

### HELLFIRE

UNPALLETIZED  
CONTAINER DIMENSIONS -- 6'-4-1/2" LONG BY 15-1/2" WIDE BY 16" HIGH.  
GROSS WEIGHT ----- 175 POUNDS (APPROX).  
PALLETIZED  
UNIT DIMENSIONS ----- 46-1/2" LONG BY 6'-4-1/2" WIDE BY 53" HIGH.  
GROSS WEIGHT ----- 1,659 POUNDS (APPROX).

### STINGER

UNPALLETIZED ( WIREBOUND )  
CONTAINER DIMENSIONS -- 67-1/4" LONG BY 13-1/8" WIDE BY 10-1/2" HIGH.  
GROSS WEIGHT ----- 77 POUNDS (APPROX).  
PALLETIZED  
UNIT DIMENSIONS ----- 39-3/8" LONG BY 67-1/4" WIDE BY 10-1/2" HIGH.  
GROSS WEIGHT ----- 749 POUNDS (APPROX).

### STINGER

UNPALLETIZED ( ALUMINUM )  
CONTAINER DIMENSIONS -- 65-9/16" LONG BY 13" WIDE BY 13-3/8" HIGH.  
GROSS WEIGHT ----- 85-3/4 POUNDS (APPROX).  
PALLETIZED  
UNIT DIMENSIONS ----- 42" LONG BY 67-1/16" WIDE BY 45-5/8" HIGH.  
GROSS WEIGHT ----- 952 POUNDS (APPROX).

### PATRIOT

SEE DRAWING NUMBER 19-48-5242-GM1-3-4-14-22-PA1 WHICH INCLUDES BUNKER STORAGE FOR PATRIOT MISSILE.

### ROLAND

SEE DRAWING NUMBER 19-48-5247-GM1-3-4-14-22-RO1 WHICH INCLUDES BUNKER STORAGE FOR ROLAND MISSILE.

## MATERIAL SPECIFICATIONS

**LUMBER** -----: SEE TM 743-200, DUNNAGE LUMBER; FED SPEC MM-L-751.

**WIRE** -----: STEEL, CARBON, ANNEALED, SOFT, NO. 8 GAGE, COATED, FINISH "4", CLASS "1", "2", OR "3", FED SPEC QQ-W-461.

**STRAPPING, STEEL** -----: TYPE I OR II, FINISH A OR B, FED SPEC QQ-5-781.

**STRAP SEAL** -----: COMMERCIAL GRADE.

**ANTI-CHAFING MATERIAL** ---: NEUTRAL BARRIER MATERIAL, MIL-B-121 (OR EQUAL).

## REVISIONS

REVISION NO. 1, DATED FEBRUARY 1986, CONSISTS OF:

1. UPDATING GENERAL NOTES AND COVER PAGE.
2. ADDING STORAGE PROCEDURES FOR ITEMS ON PAGES 28, 29, AND PAGES 50 THRU 65.

## UNIT DATA

### BOXED AMMUNITION (PALLETIZED)

GRENADE, HAND, RIFLE AND COMPONENTS  
UNIT DIMENSIONS ----- 40" LONG BY 48" WIDE BY 50-1/2" HIGH.  
GROSS WEIGHT ----- 1,764 POUNDS (APPROX).

### BOXED AMMUNITION (SKIDDED)

CARTRIDGE, 105MM  
UNIT DIMENSIONS ----- 36" LONG BY 37-1/2" WIDE BY 47" HIGH.  
GROSS WEIGHT ----- 2,020 POUNDS (APPROX).

### PROPELLING CHARGES

UNIT NO. 6  
UNIT DIMENSIONS ----- 58-1/2" LONG BY 41" WIDE BY 47-1/4" HIGH.  
GROSS WEIGHT ----- 1,886 POUNDS (APPROX).

### COMPLETE ROUNDS

UNIT NO. 3  
UNIT DIMENSIONS ----- 40" LONG BY 48" WIDE BY 41-1/4" HIGH.  
GROSS WEIGHT ----- 2,200 POUNDS (APPROX).

### SEPARATE LOADING PROJECTILES

155MM PROJECTILE, 8/PALLET  
UNIT DIMENSIONS ----- 27" LONG BY 13-1/2" WIDE BY 31-1/2" HIGH.  
GROSS WEIGHT ----- 800 POUNDS (APPROX).  
175MM PROJECTILE, 6/PALLET  
UNIT DIMENSIONS ----- 25-1/2" LONG BY 17" WIDE BY 41" HIGH.  
GROSS WEIGHT ----- 934 POUNDS (APPROX).  
8" PROJECTILE, 3/PALLET  
UNIT DIMENSIONS ----- 28-1/2" LONG BY 9-1/2" WIDE BY 38-1/2" HIGH.  
GROSS WEIGHT ----- 633 POUNDS (APPROX).  
8" PROJECTILE, 6/PALLET  
UNIT DIMENSIONS ----- 28-1/2" LONG BY 19-1/2" WIDE BY 38-1/2" HIGH.  
GROSS WEIGHT ----- 1,256 POUNDS (APPROX).

### ROCKET, 2.75 INCH

CONTAINER DIMENSIONS ----- 61-1/16" LONG BY 20-3/16" WIDE BY 25-1/4" HIGH.  
GROSS WEIGHT ----- 776 POUNDS (APPROX).  
EXPLOSIVE WEIGHT ----- 217 POUNDS.

### SIMULATOR, ATOMIC EXPLOSION, M142

UNPALLETIZED  
CONTAINER DIMENSIONS ----- 23-5/8" DIAMETER BY 35-3/16" HIGH.  
GROSS WEIGHT ----- 201 POUNDS (APPROX).  
PALLETIZED  
UNIT DIMENSIONS ----- 48" LONG BY 47-1/4" WIDE BY 40-3/4" HIGH.  
GROSS WEIGHT ----- 879 POUNDS (APPROX).

### TOW

UNPALLETIZED  
CONTAINER DIMENSIONS ----- 58-1/4" LONG BY 11-5/8" WIDE BY 11-5/8" HIGH.  
GROSS WEIGHT ----- 83 POUNDS (APPROX).  
PALLETIZED 4W/3H  
UNIT DIMENSIONS ----- 58-1/4" LONG BY 48" WIDE BY 39-3/4" HIGH.  
GROSS WEIGHT ----- 1,127 POUNDS (APPROX).  
PALLETIZED 3W/4H  
UNIT DIMENSIONS ----- 58-1/4" LONG BY 35-1/4" WIDE BY 51-1/4" HIGH.  
GROSS WEIGHT ----- 1,112 POUNDS (APPROX).

### REDEYE

MONOPAK (UNPALLETIZED)  
CONTAINER DIMENSIONS ----- 56-1/2" LONG BY 17-1/2" WIDE BY 12-1/2" HIGH.  
GROSS WEIGHT ----- 74 POUNDS (APPROX).  
EXPLOSIVE WEIGHT ----- 7 POUNDS (APPROX).  
UNIPAK (UNPALLETIZED)  
CONTAINER DIMENSIONS ----- 56-1/2" LONG BY 10" WIDE BY 15-1/2" HIGH.  
GROSS WEIGHT ----- 47.9 POUNDS (APPROX).  
EXPLOSIVE WEIGHT ----- 7 POUNDS (APPROX).  
MONOPAK (PALLETIZED)  
UNIT DIMENSIONS ----- 58-3/8" LONG BY 40" WIDE BY 43-1/2" HIGH.  
GROSS WEIGHT ----- 662 POUNDS (APPROX).  
EXPLOSIVE WEIGHT ----- 42 POUNDS (APPROX).  
UNIPAK (PALLETIZED)  
UNIT DIMENSIONS ----- 56-1/2" LONG BY 40" WIDE BY 52-1/2" HIGH.  
GROSS WEIGHT ----- 686 POUNDS (APPROX).  
EXPLOSIVE WEIGHT ----- 84 POUNDS (APPROX).

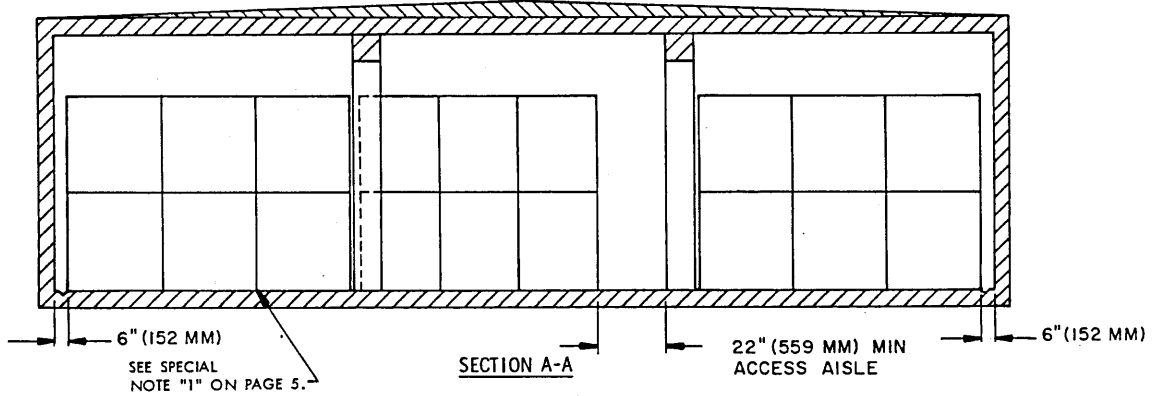
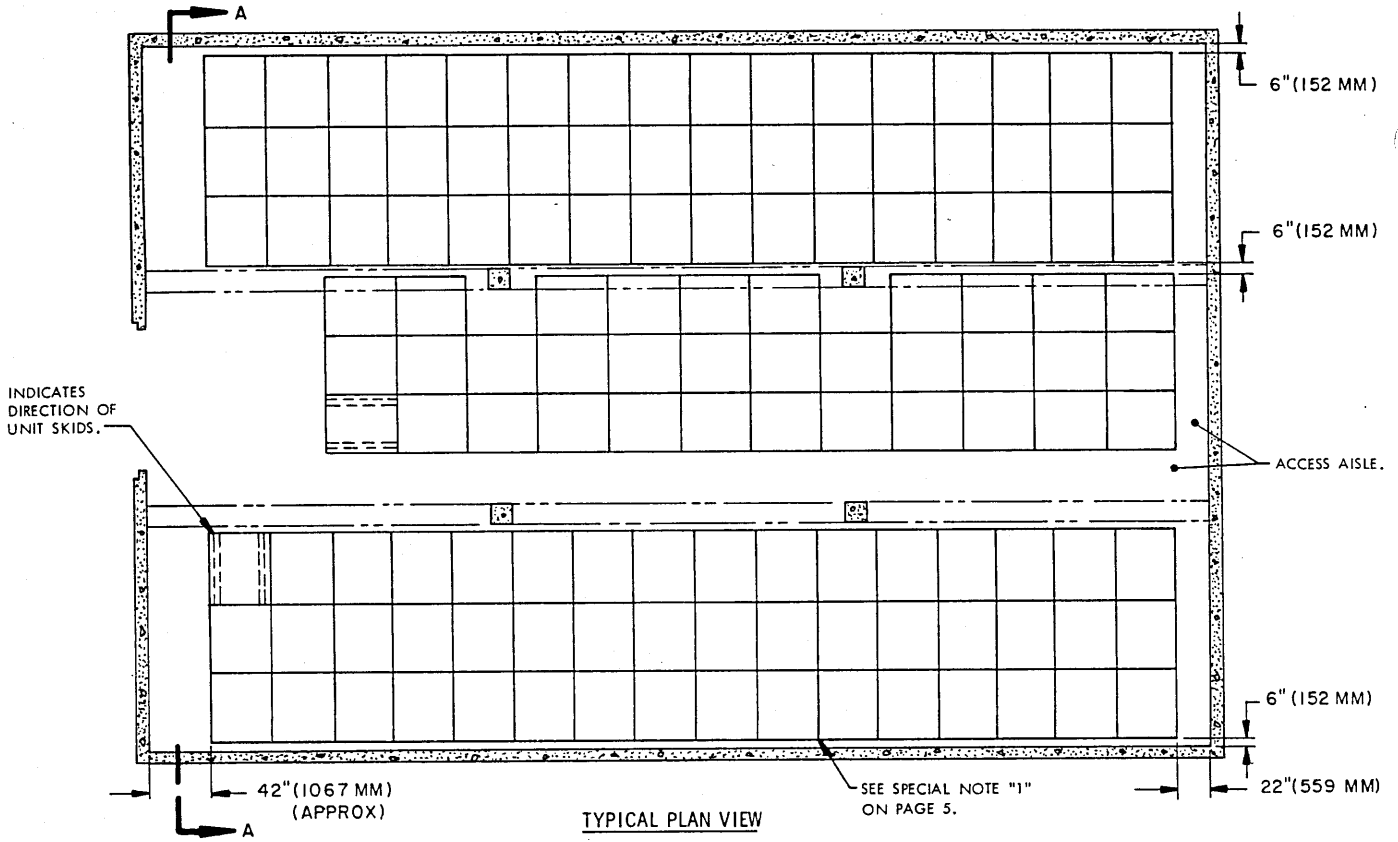
### SHILLELAGH

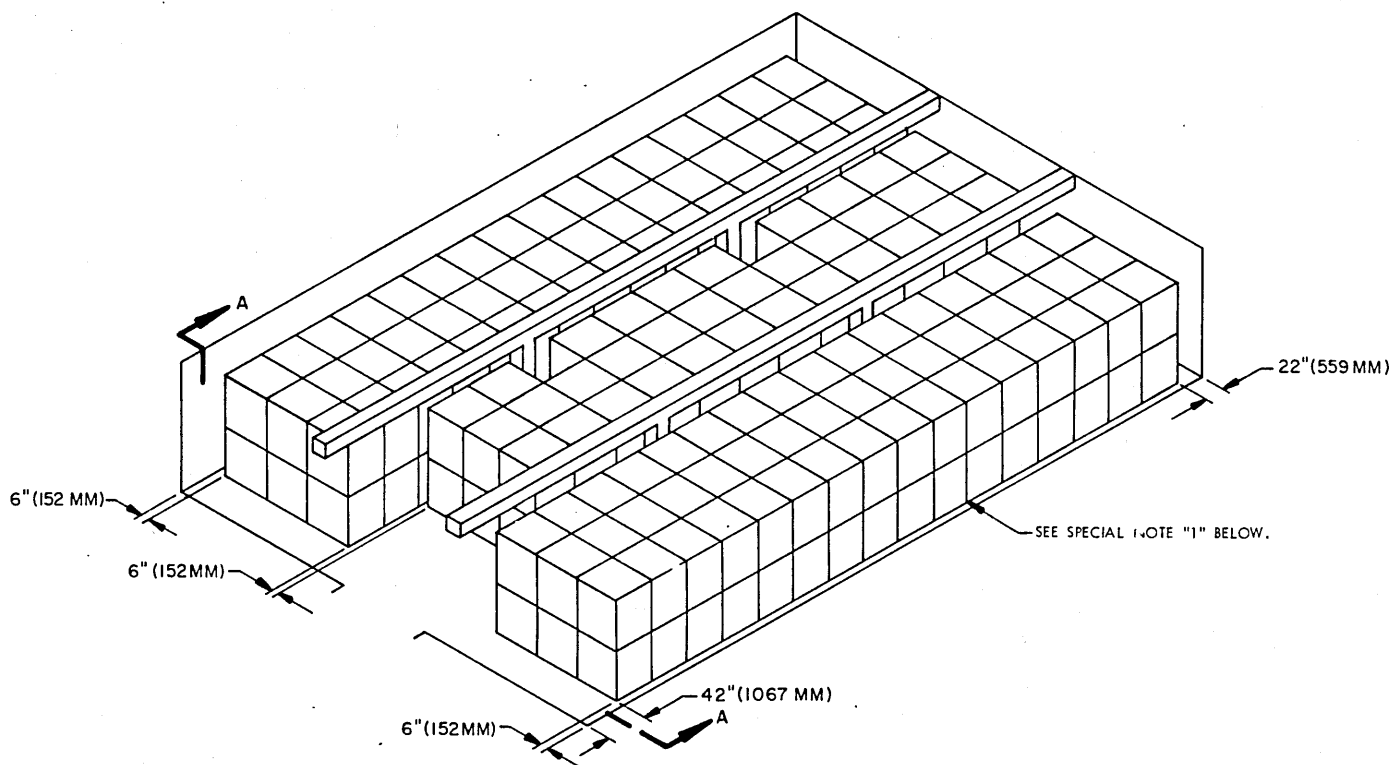
UNPALLETIZED  
CONTAINER DIMENSIONS ----- 52-1/2" LONG BY 14-3/4" WIDE BY 14-3/4" HIGH.  
GROSS WEIGHT ----- 116 POUNDS (APPROX).  
EXPLOSIVE WEIGHT ----- 20 POUNDS (APPROX).  
PALLETIZED  
UNIT DIMENSIONS ----- 52-1/2" LONG BY 45" WIDE BY 51-1/2" HIGH.  
GROSS WEIGHT ----- 1,167 POUNDS (APPROX).  
EXPLOSIVE WEIGHT ----- 180 POUNDS (APPROX).

### CHAPARRAL

UNPALLETIZED  
CONTAINER DIMENSIONS ----- 125" LONG BY 18" WIDE BY 19" HIGH.  
GROSS WEIGHT ----- 280 POUNDS (APPROX).  
EXPLOSIVE WEIGHT ----- 70 POUNDS (APPROX).  
PALLETIZED  
UNIT DIMENSIONS ----- 128-1/4" LONG BY 36" WIDE BY 44-5/8" HIGH.  
GROSS WEIGHT ----- 1,402 POUNDS (APPROX).  
EXPLOSIVE WEIGHT ----- 280 POUNDS (APPROX).

(CONTINUED ON PAGE 2)



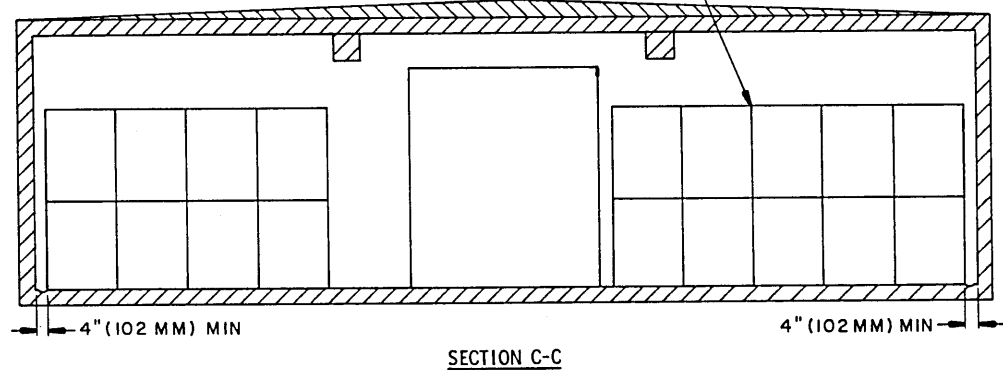
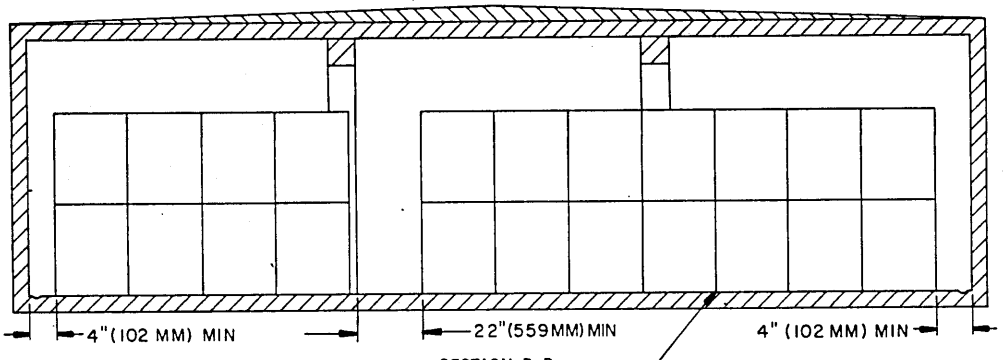
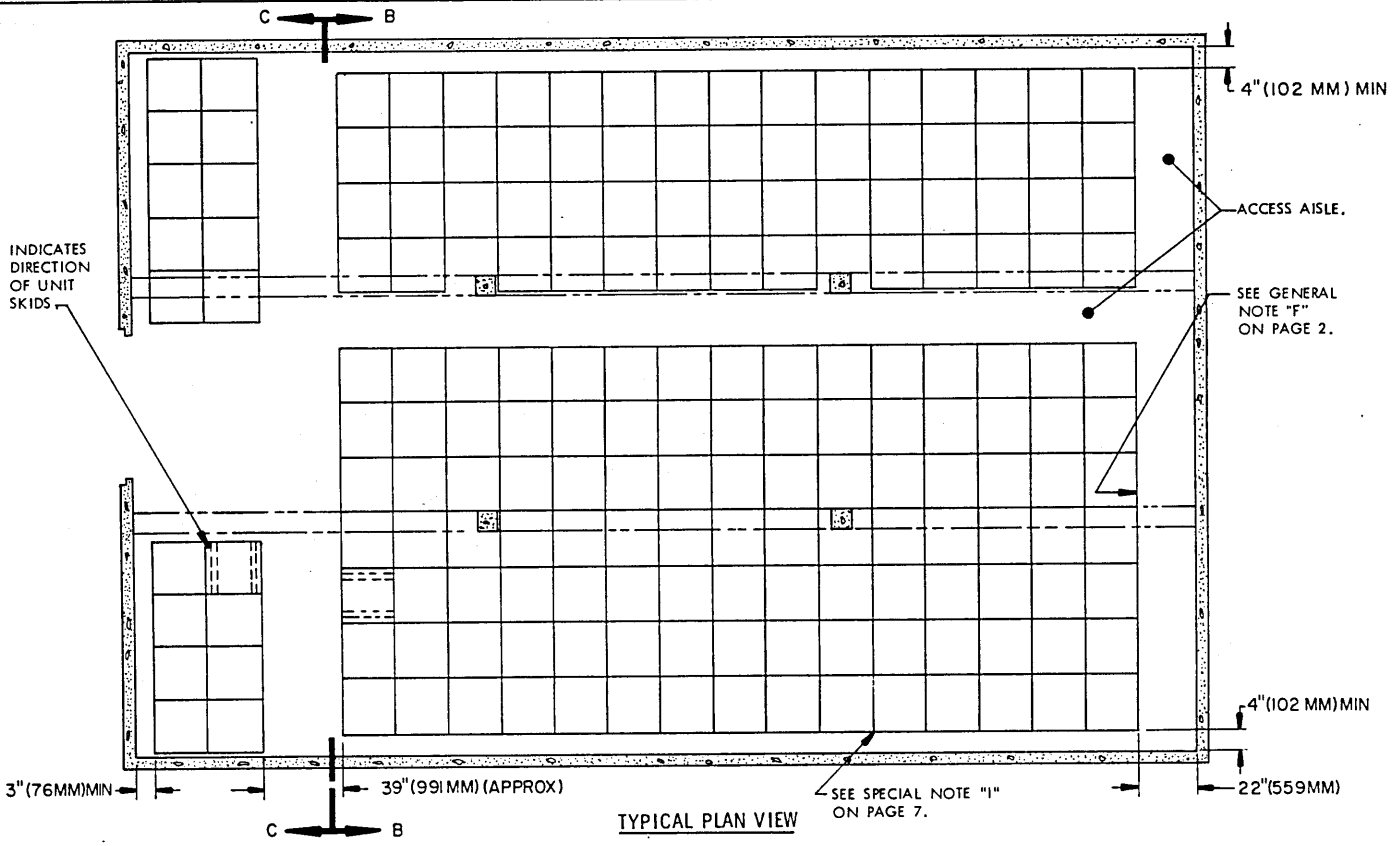


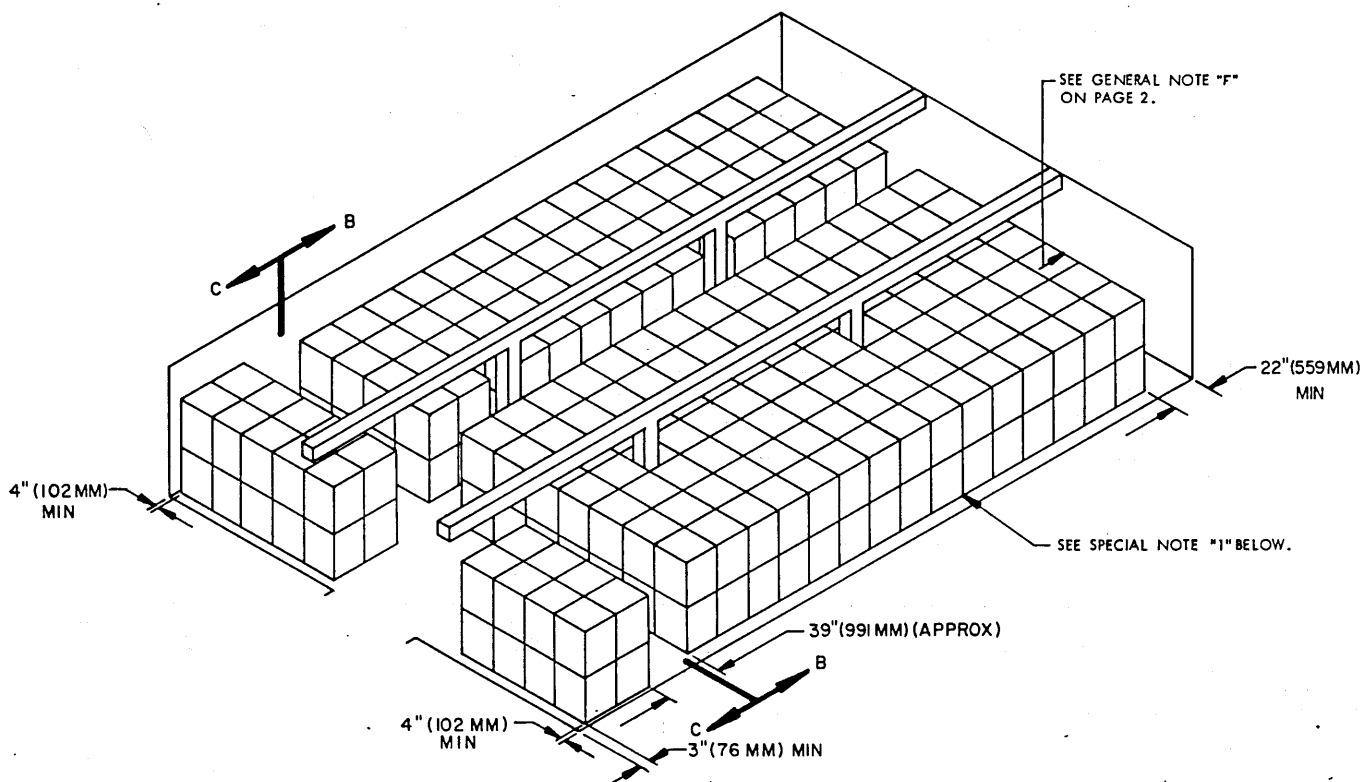
TYPICAL ISOMETRIC VIEW

FOR "GENERAL NOTES" SEE PAGE 2.

SPECIAL NOTES:

1. WHEN CALCULATING DIMENSIONS, A ONE INCH (1") (25.4MM) SPACE WAS ALLOWED BETWEEN EACH PALLET UNIT TO PROMOTE EASE OF HANDLING BY MHE.
2. THE VIEWS SHOWN ON PAGE 4 AND ABOVE DEPICT PALLETIZED (STRAPPED) UNIT LOADS OF BOXED AMMUNITION AND COMPONENTS (AS SHOWN IN DRAWING NUMBERS 19-48-4015-12P1000 (1), 3 MAR 73 AND 19-48-4020-1-2-5-11PA1001 (2) JUN 68).
3. THE HEIGHT OF THE PALLET UNIT SHOWN IS TYPICAL ONLY. WHEN STORING A UNIT OF SUCH A HEIGHT THAT ADDITIONAL LAYERS MAY BE STORED WITHIN A MAGAZINE, ADDITIONAL LAYERS SHALL BE INCORPORATED TO IMPROVE STORAGE DENSITY, PROVIDED OTHER RESTRICTIONS ARE COMPLIED WITH.



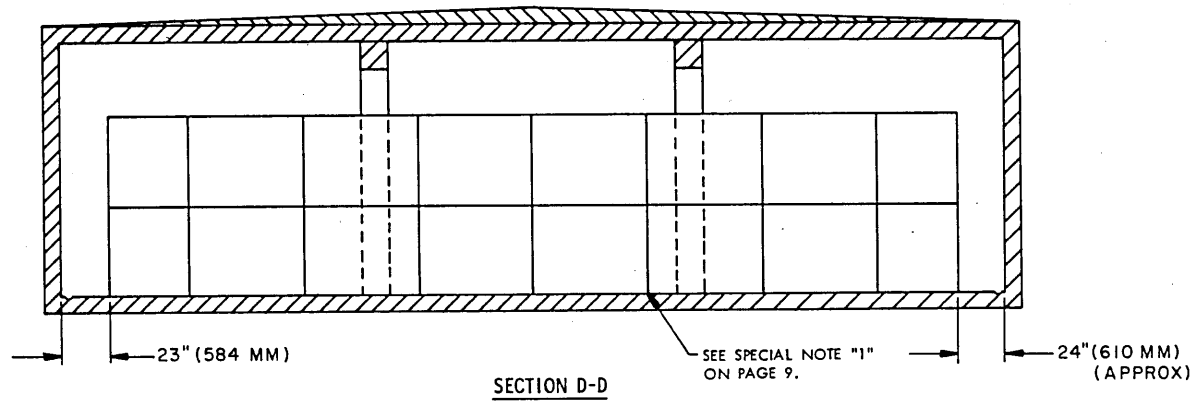
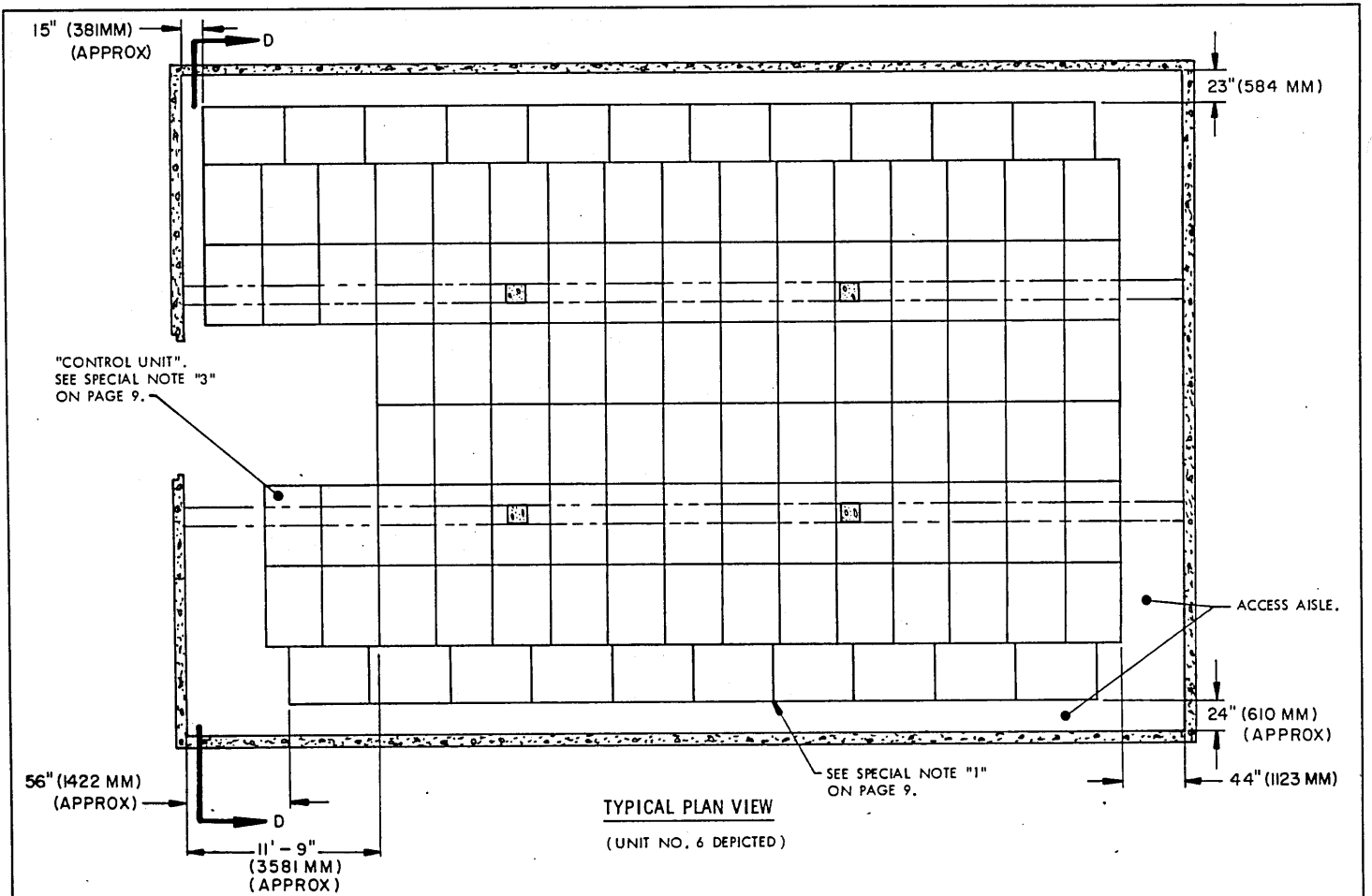


TYPICAL ISOMETRIC VIEW

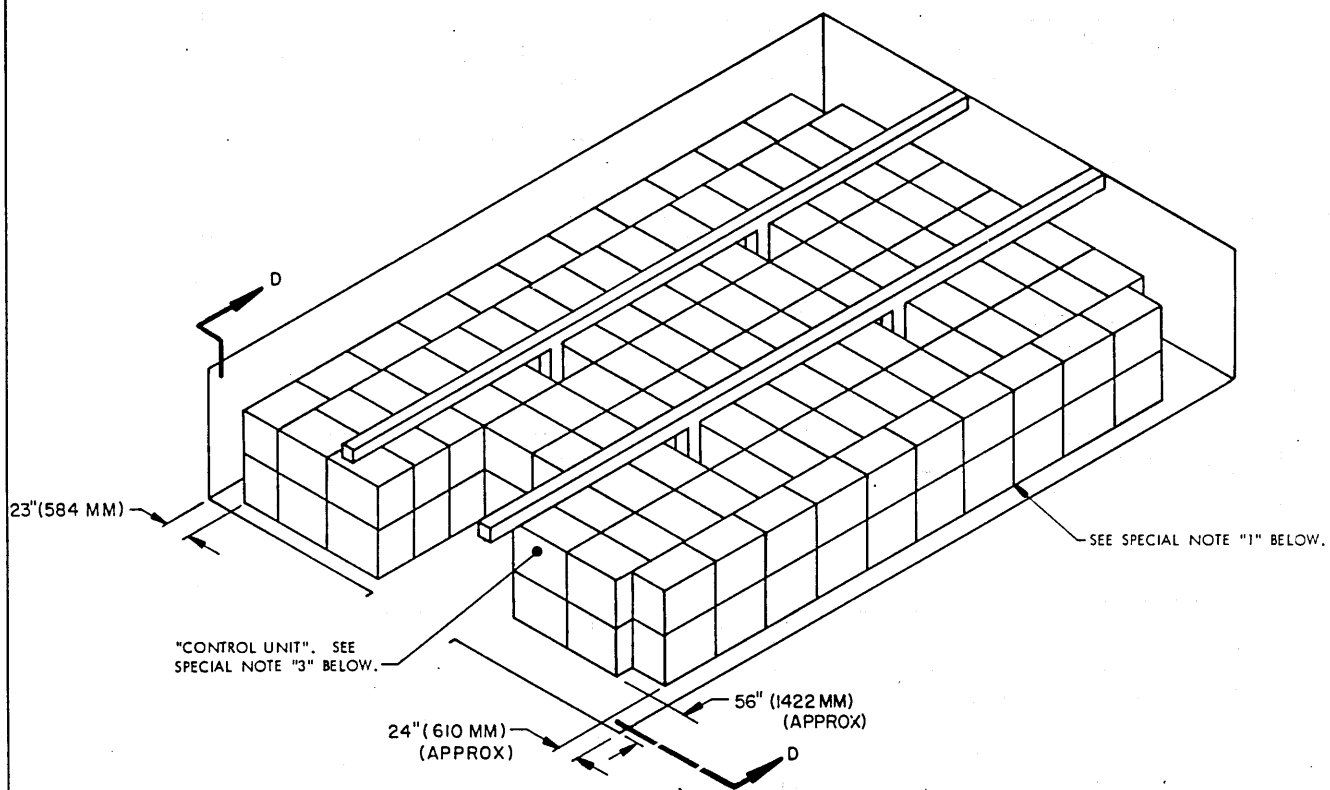
FOR "GENERAL NOTES" SEE PAGE 2.

SPECIAL NOTES:

1. WHEN CALCULATING DIMENSIONS, A ONE INCH (1") (25.4MM) SPACE WAS ALLOWED BETWEEN EACH SKIDDED UNIT TO PROMOTE EASE OF HANDLING BY MHE.
2. THE VIEWS SHOWN ON PAGE 6 AND ABOVE DEPICT BOXED AMMUNITION AND COMPONENTS IN SKIDDED UNITS (AS SHOWN IN DRAWING NUMBER 19-48-4020-1-2-5-11PA1001 (2) JUN 68).
3. THE HEIGHT OF THE SKIDDED UNIT SHOWN IS TYPICAL ONLY. WHEN STORING A UNIT OF SUCH A HEIGHT THAT ADDITIONAL LAYERS MAY BE STORED WITHIN A MAGAZINE, ADDITIONAL LAYERS SHALL BE INCORPORATED TO IMPROVE STORAGE DENSITY, PROVIDED OTHER RESTRICTIONS ARE COMPLIED WITH.





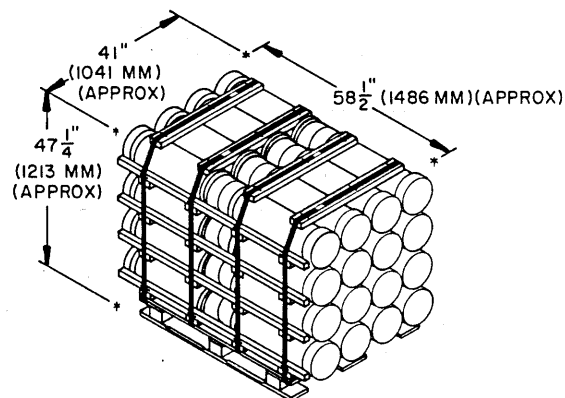


**TYPICAL ISOMETRIC VIEW**  
(UNIT NO. 6 DEPICTED)

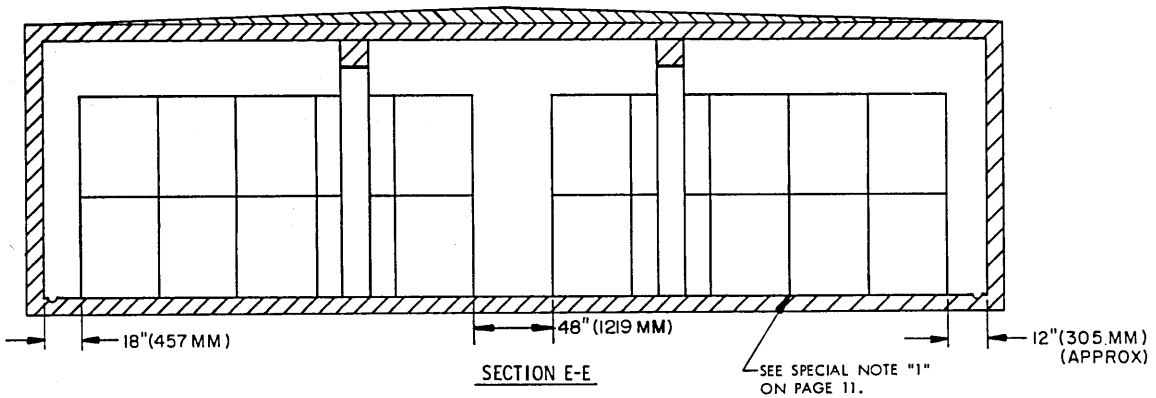
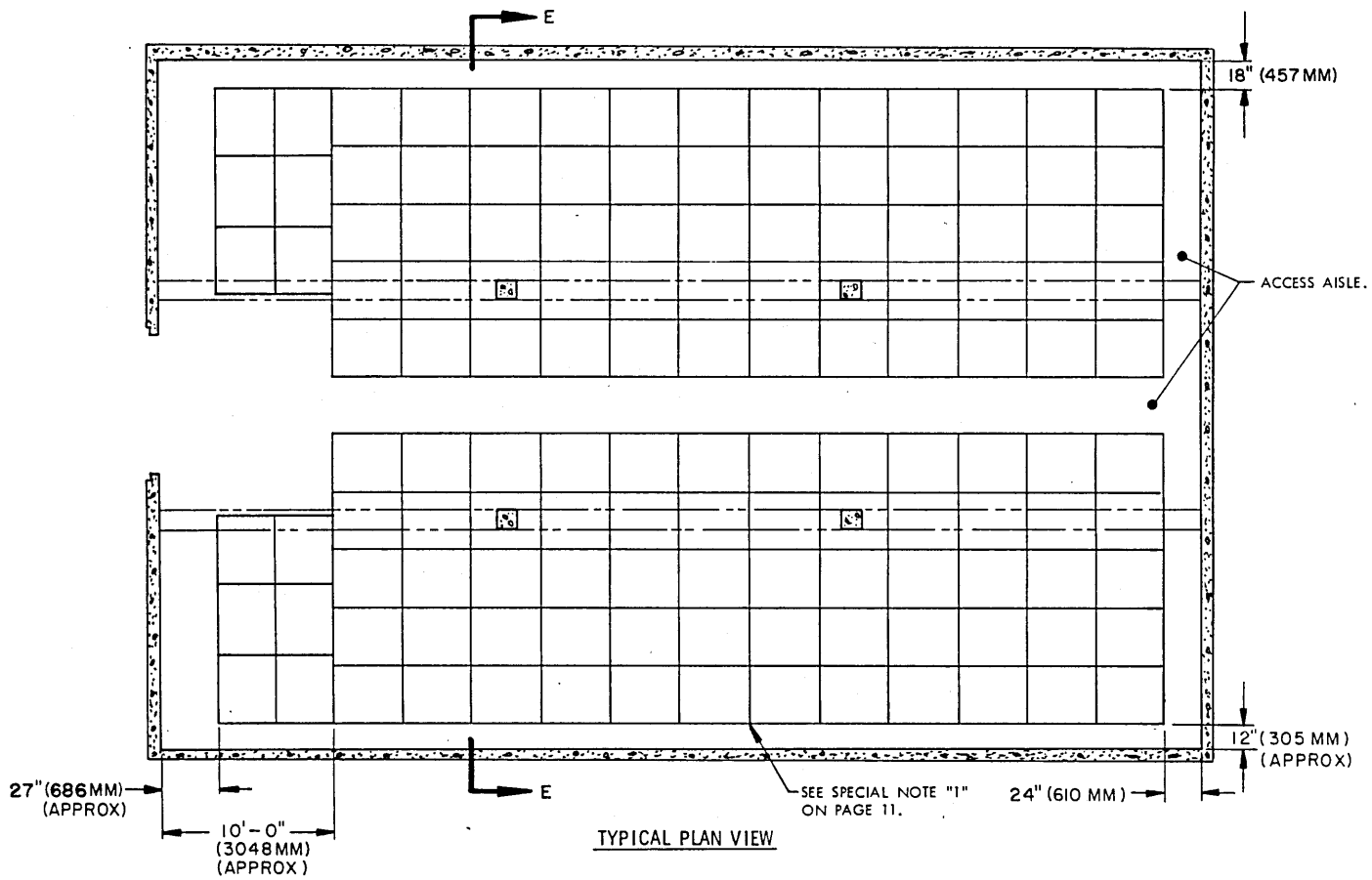
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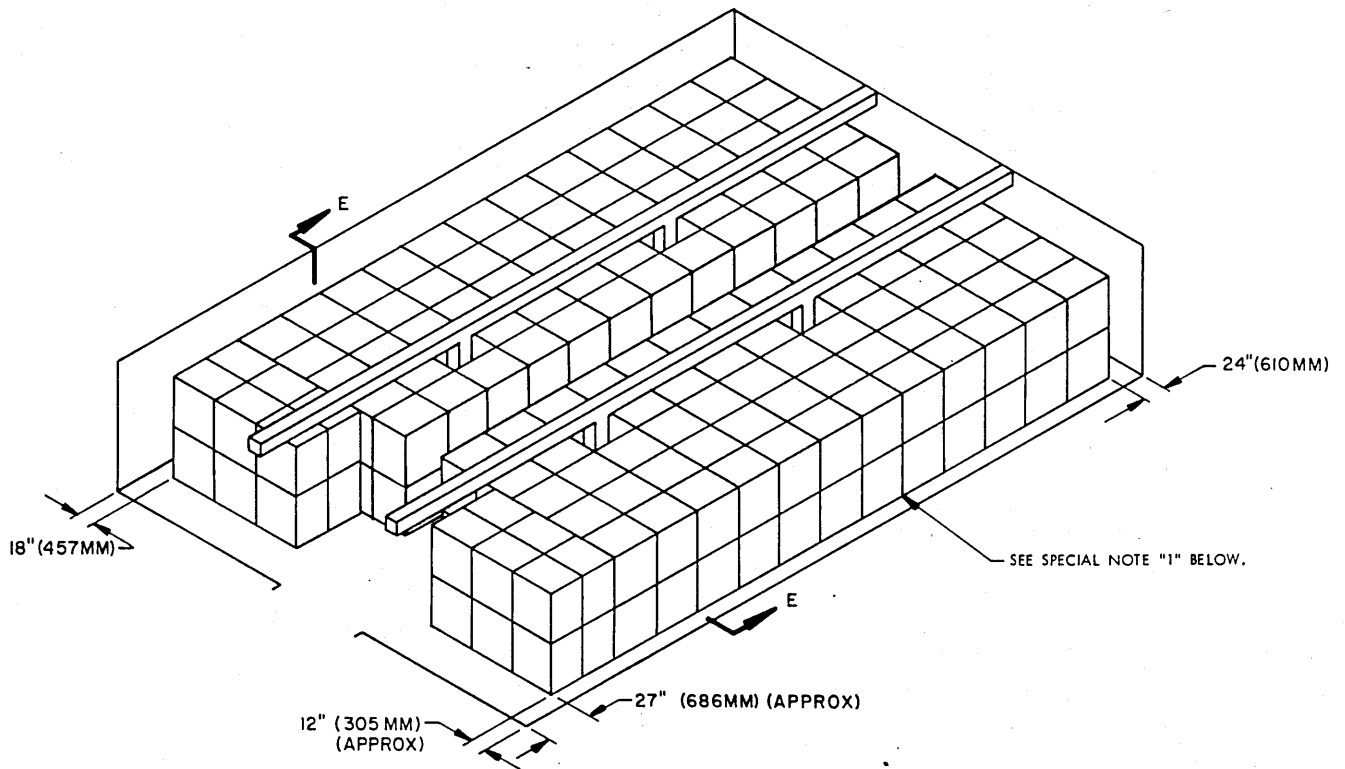
**SPECIAL NOTES:**

1. WHEN CALCULATING DIMENSIONS, A ONE INCH (1") (25.4MM) SPACE WAS ALLOWED BETWEEN EACH PALLET UNIT TO PROMOTE EASE OF HANDLING BY MHE.
2. THE VIEWS SHOWN ON PAGE 8 AND ABOVE DEPICT PROPELLING CHARGES (AS SHOWN IN DRAWING NUMBER 19-48-4042-1-2-5-11-14PM1000 (1), 8 FEB 65).
3. ONE (1) SURVEILLANCE "CONTROL UNIT" SAMPLE WILL BE WITHHELD FROM EACH STORED LOT. IT IS RECOMMENDED THAT THIS "CONTROL UNIT" BE PLACED AT THE FRONT OF A MAGAZINE CONTAINING SOME OR ALL OF THE LOT.



**UNIT NO. 6**



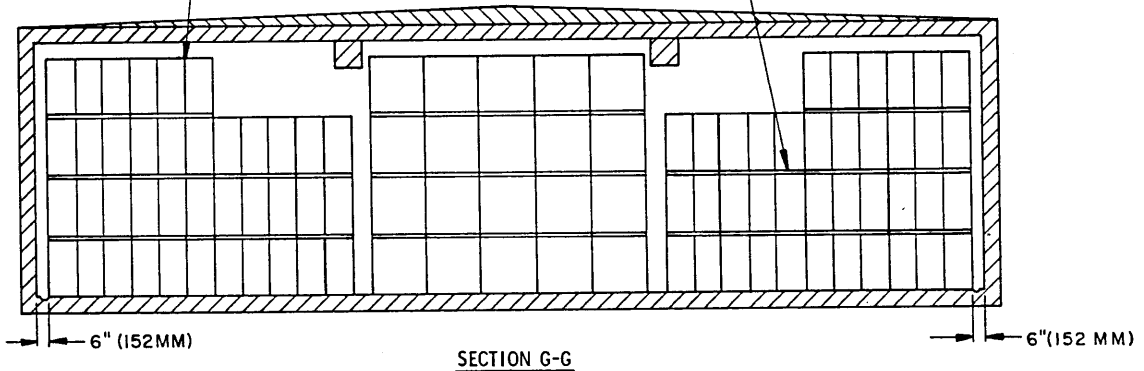
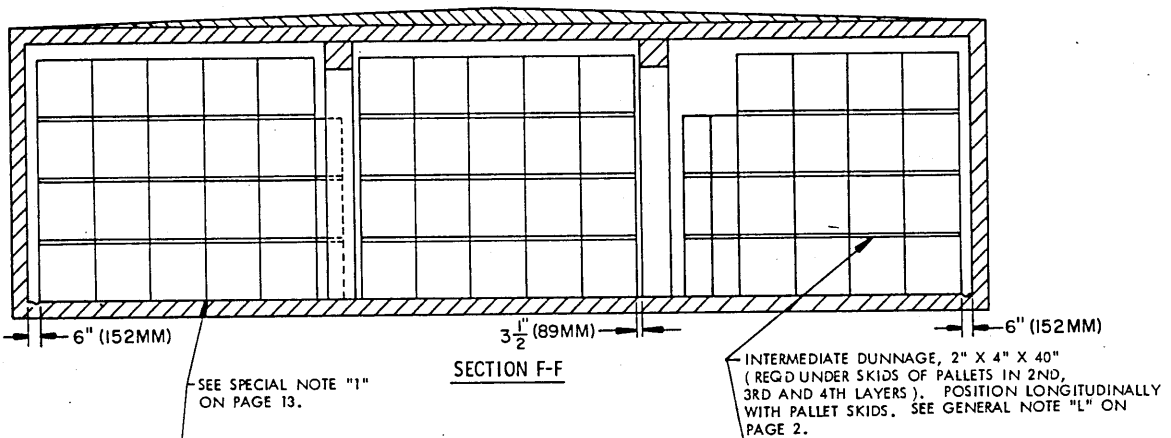
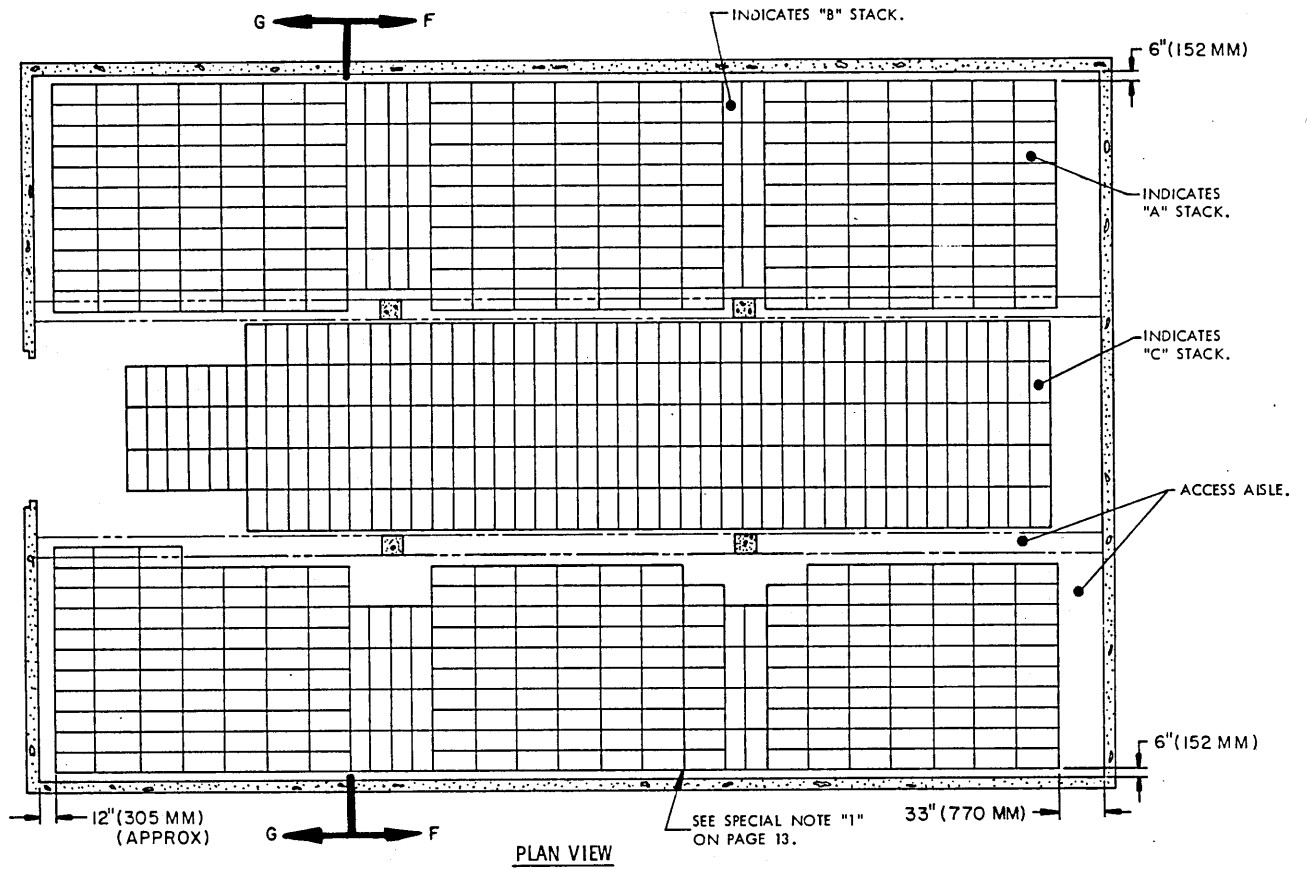


TYPICAL ISOMETRIC VIEW

FOR "GENERAL NOTES" SEE PAGE 2.

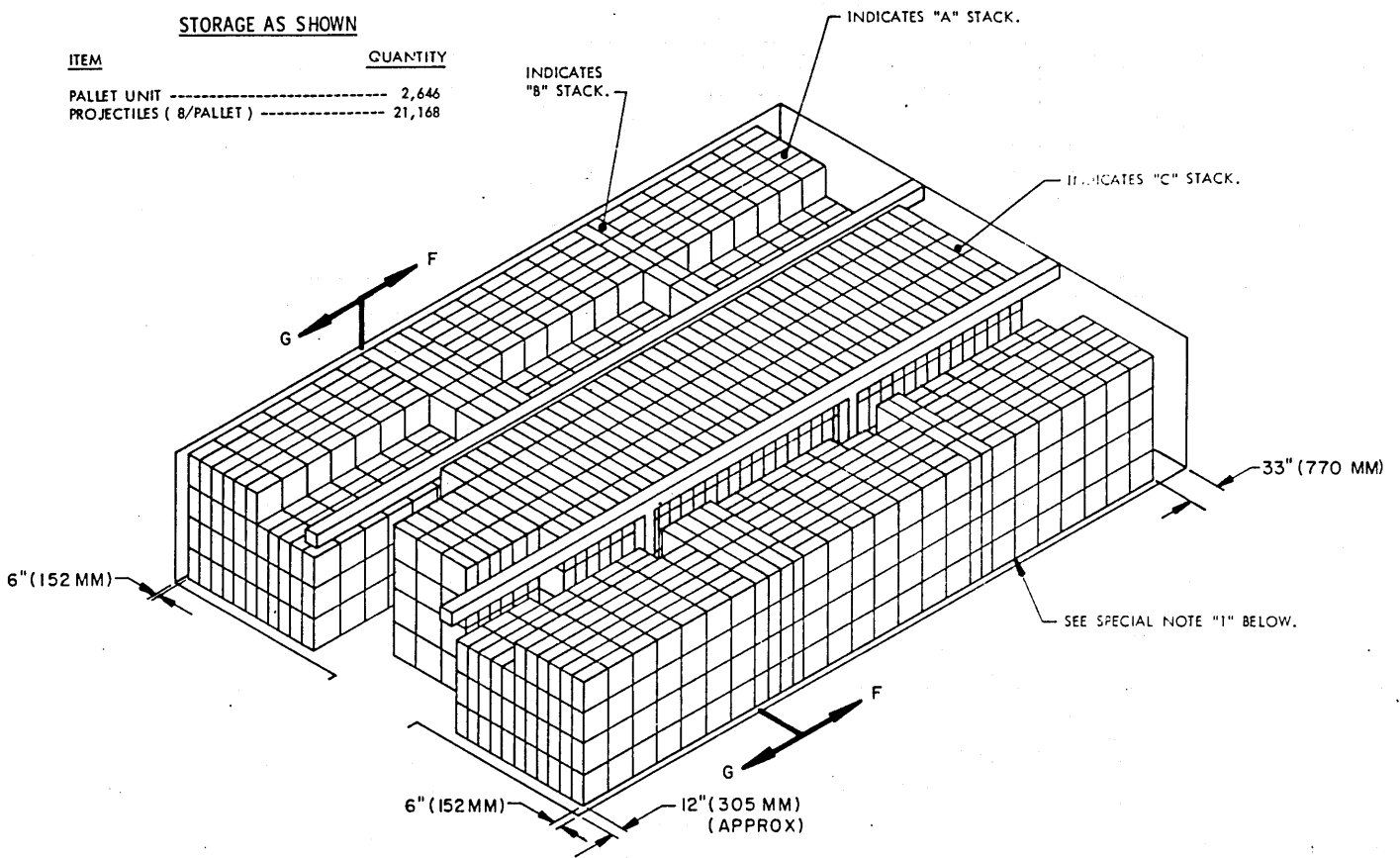
SPECIAL NOTES:

1. WHEN CALCULATING DIMENSIONS, A ONE INCH (1") (25.4MM) SPACE WAS ALLOWED BETWEEN PALLET UNITS TO PROMOTE EASE OF HANDLING BY MHE.
2. THE VIEWS SHOWN ON PAGE 10 AND ABOVE DEPICT COMPLETE ROUNDS PACKED IN CYLINDRICAL METAL CONTAINERS (AS SHOWN IN DRAWING NUMBER 19-48-4079-1-2-5-11-14PM1001, SEP 69).



**STORAGE AS SHOWN**

ITEM	QUANTITY
PALLET UNIT -----	2,646
PROJECTILES ( 8/PALLET ) -----	21,168



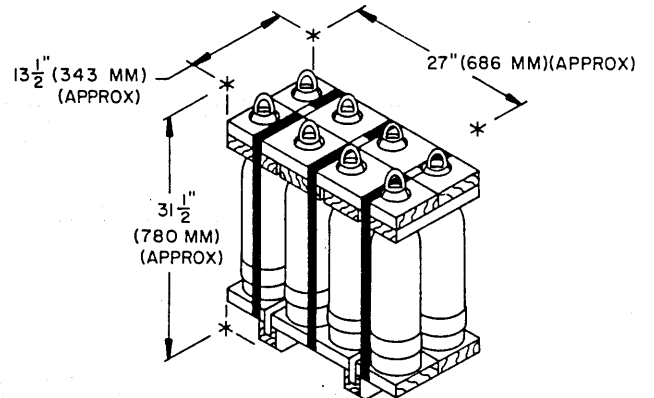
**ISOMETRIC VIEW**

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

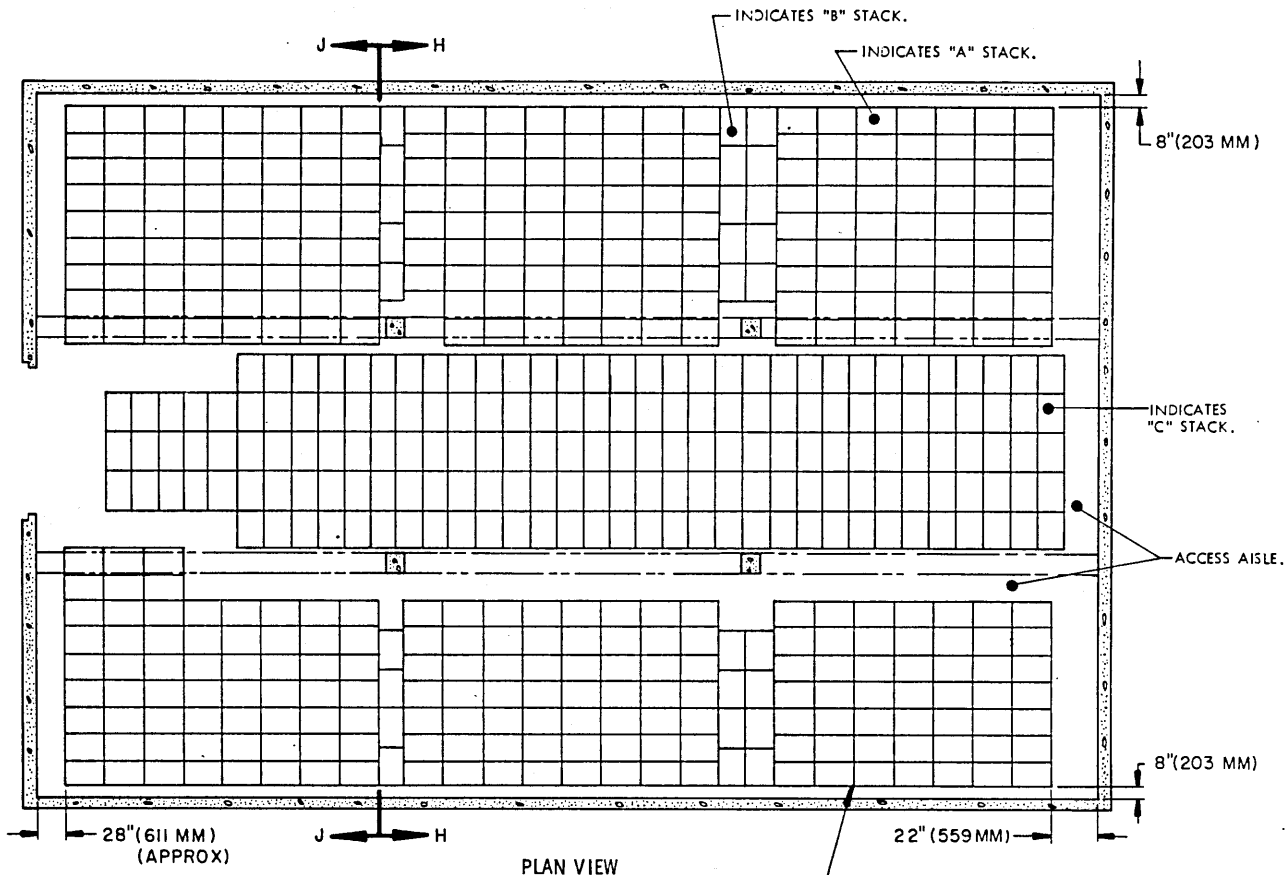
**SPECIAL NOTES:**

1. WHEN CALCULATING DIMENSIONS, A ONE INCH (1") (25.4MM) SPACE WAS ALLOWED BETWEEN EACH PALLET UNIT TO PROMOTE EASE OF HANDLING BY MHE.
2. PALLETIZED PROJECTILES SHOULD BE HANDLED AND STACKED IN UNITS OF THREE (3) PALLETES EACH ON FORKLIFT TRUCK WHEREVER POSSIBLE. SEE GENERAL NOTE "L" ON PAGE 2.
3. THE VIEWS SHOWN ON PAGE 12 AND ABOVE DEPICT PALLETIZED SEPARATE LOADING PROJECTILES, 155MM (AS SHOWN IN DRAWING NUMBER 19-48-4102-1-2-14PE1001, APR 73).

BILL OF MATERIAL PER STACK			
STACK TYPE	LUMBER	LINEAR FEET	BOARD FEET
"A"	2" X 4"	126	84
"B"	2" X 4"	67	44
"C"	2" X 4"	34	23



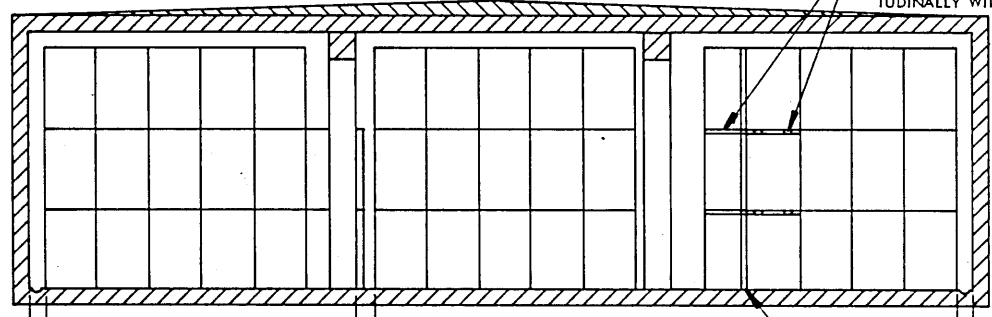
**155MM, 8/PALLET**



PLAN VIEW

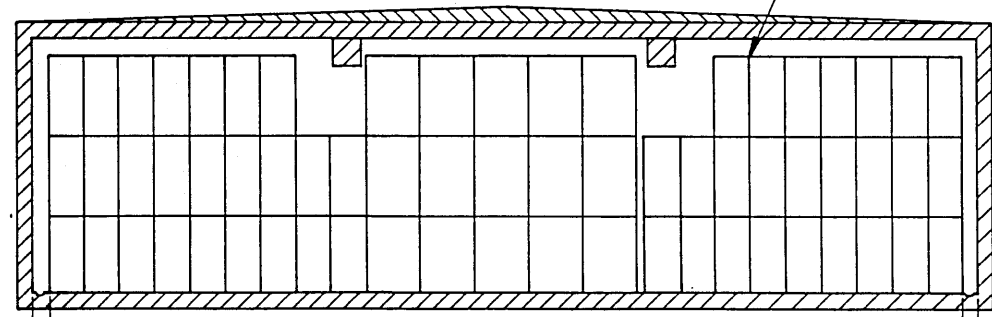
SEE SPECIAL NOTE "1" ON PAGE 15.

INTERMEDIATE DUNNAGE, 2" X 4" X 33" (REQD UNDER SKIDS OF PALLETS IN 2ND AND 3D LAYERS). POSITION LONGITUDINALLY WITH PALLET SKIDS. SEE GENERAL NOTE "L" ON PAGE 2.



SECTION H-H

SEE SPECIAL NOTE "1" ON PAGE 15.

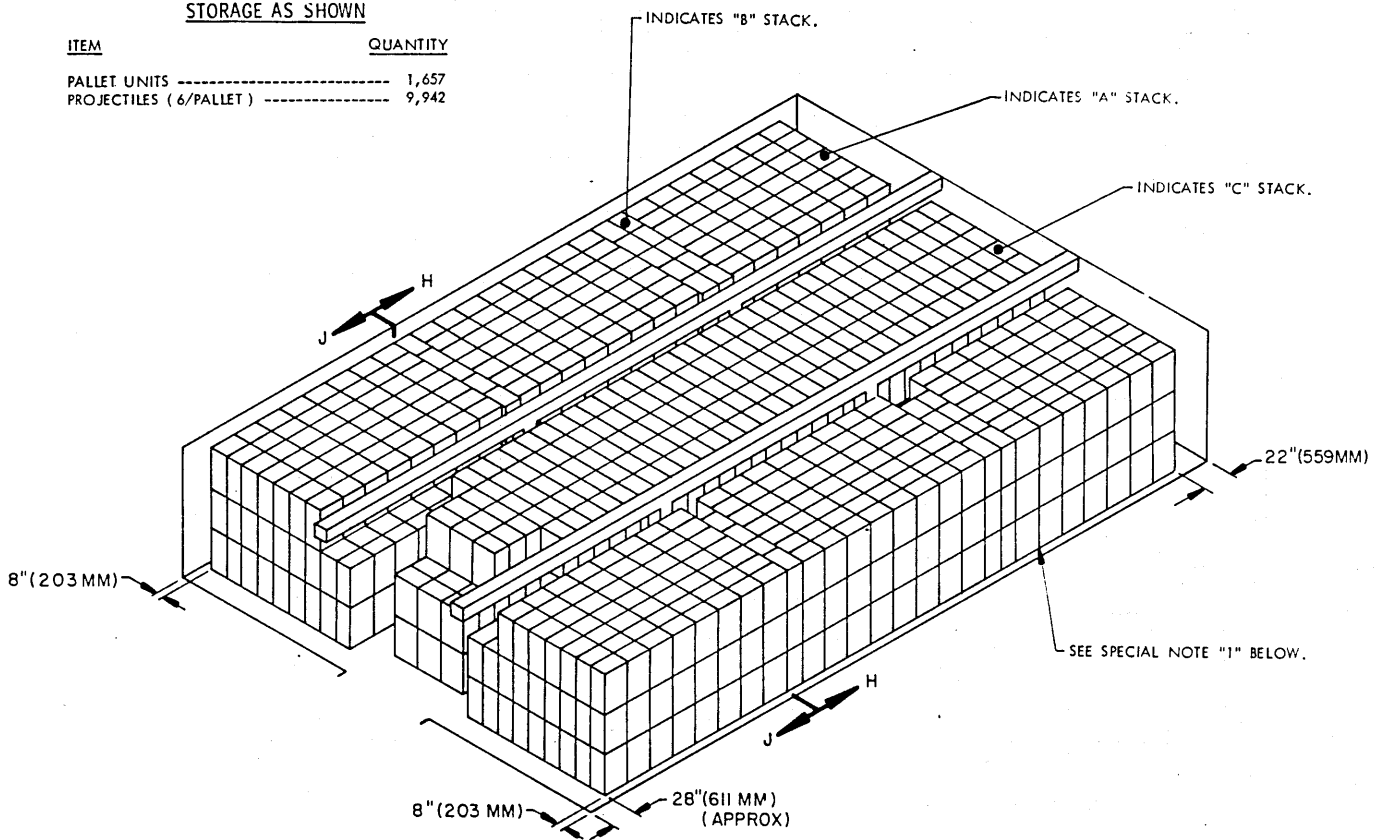


SECTION J-J

175MM PROJECTILE (6/PALLET)

**STORAGE AS SHOWN**

ITEM	QUANTITY
PALLET UNITS -----	1,657
PROJECTILES ( 6/PALLET ) -----	9,942



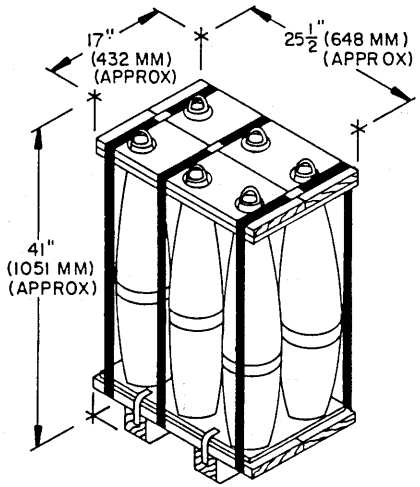
**ISOMETRIC VIEW**

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

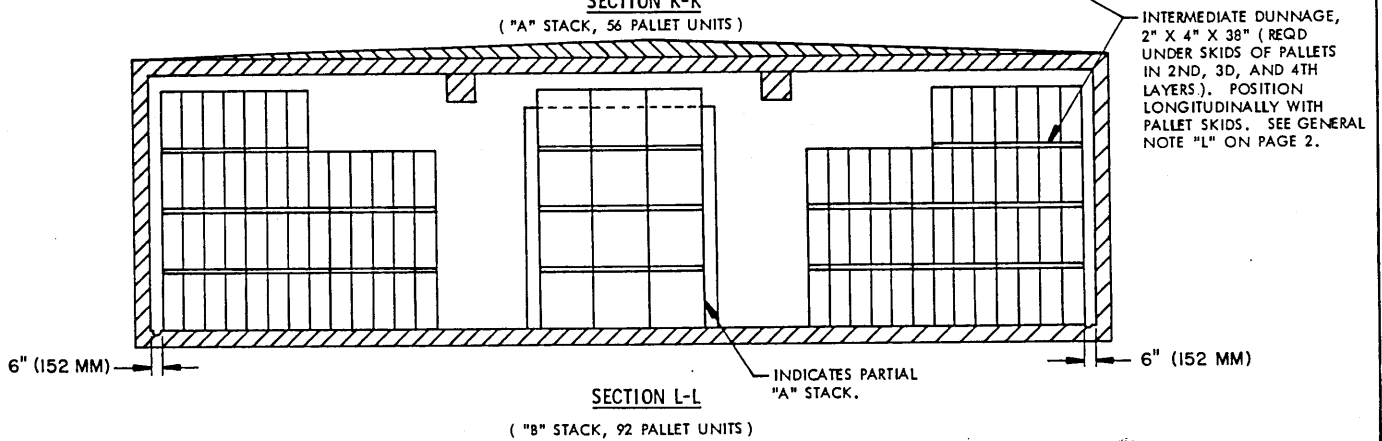
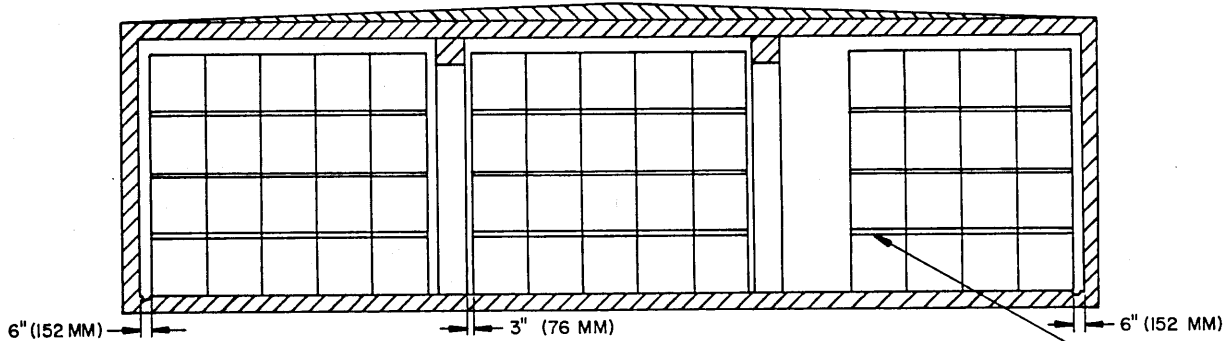
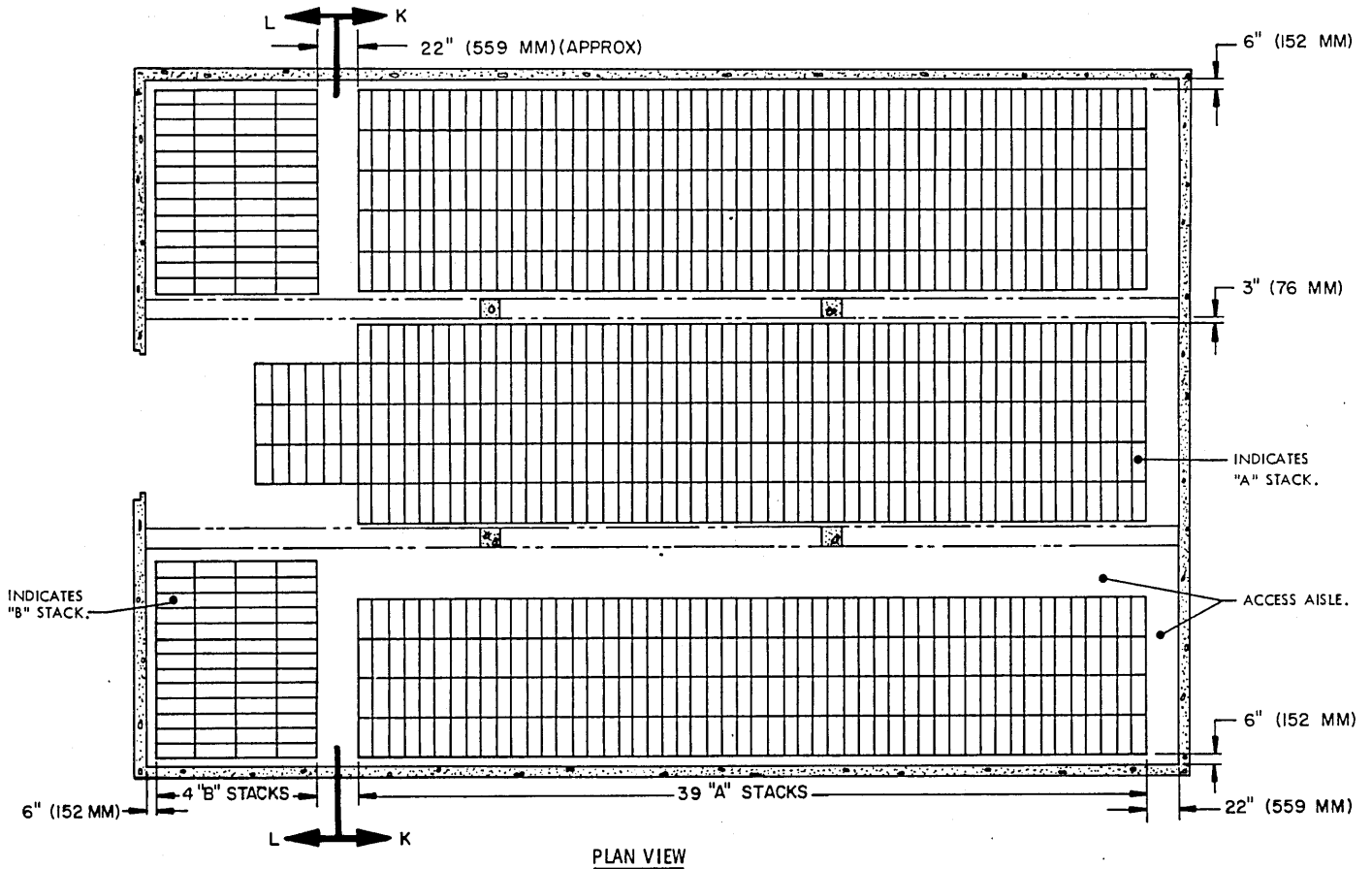
BILL OF MATERIAL PER STACK			
STACK TYPE	LUMBER	LINEAR FEET	BOARD FEET
"A"	2" X 4"	90	60
"B"	2" X 4"	56	36
"C"	2" X 4"	28	18

**SPECIAL NOTES:**

1. WHEN CALCULATING DIMENSIONS, A ONE INCH ( 1" ) ( 25.4MM ) SPACE WAS ALLOWED BETWEEN EACH PALLET UNIT TO PROMOTE EASE OF HANDLING BY MHE.
2. PALLETIZED PROJECTILES SHOULD BE HANDLED AND STACKED IN UNITS OF TWO ( 2 ) PALLETS EACH ON FORKLIFT TRUCK WHEREVER POSSIBLE. SEE GENERAL NOTE "L" ON PAGE 2.
3. THE VIEWS SHOWN ON PAGE 14 AND ABOVE DEPICT PALLETIZED SEPARATE LOADING PROJECTILES, 175MM ( AS SHOWN IN DRAWING NUMBER 19-48-4102-1-2-14PE1001, APR 73 ).



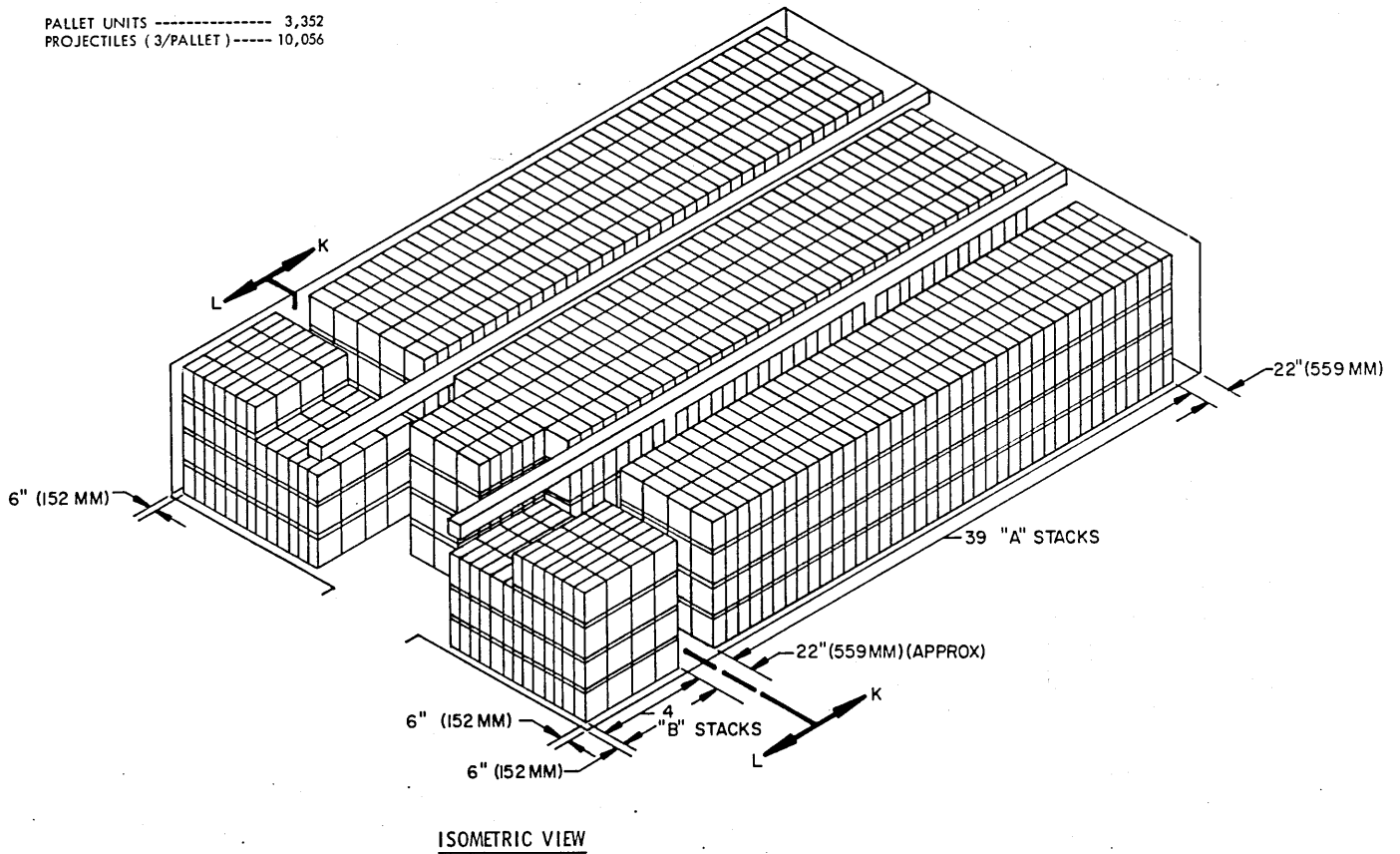
**175MM, 6/PALLET**





**STORAGE AS SHOWN**

ITEM	QUANTITY
PALLET UNITS -----	3,352
PROJECTILES (3/PALLET) -----	10,056



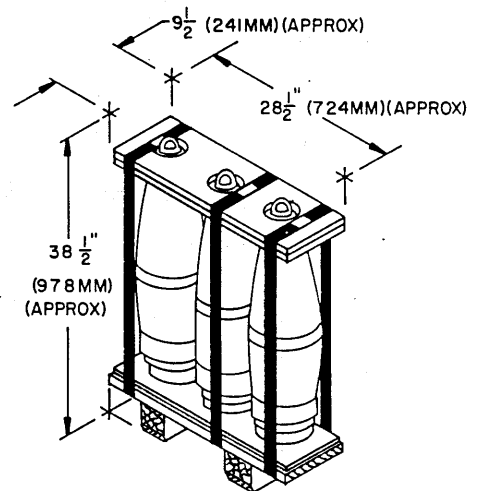
**ISOMETRIC VIEW**

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

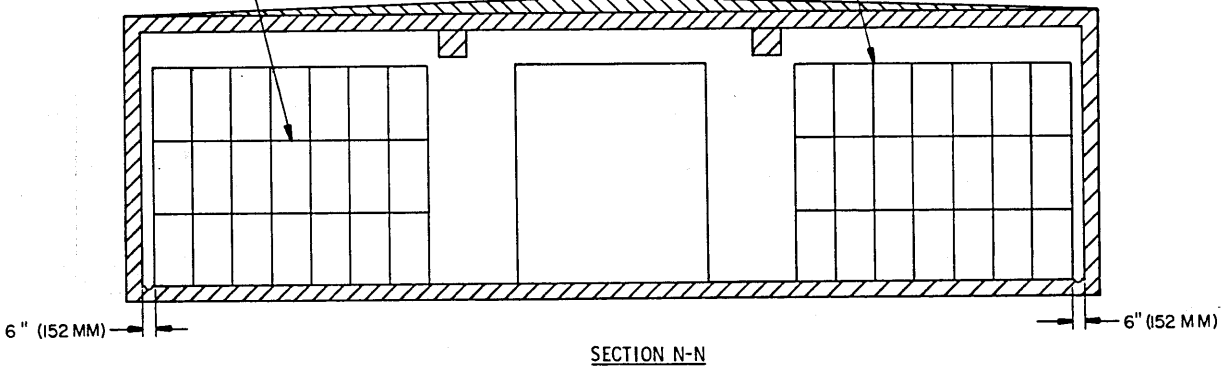
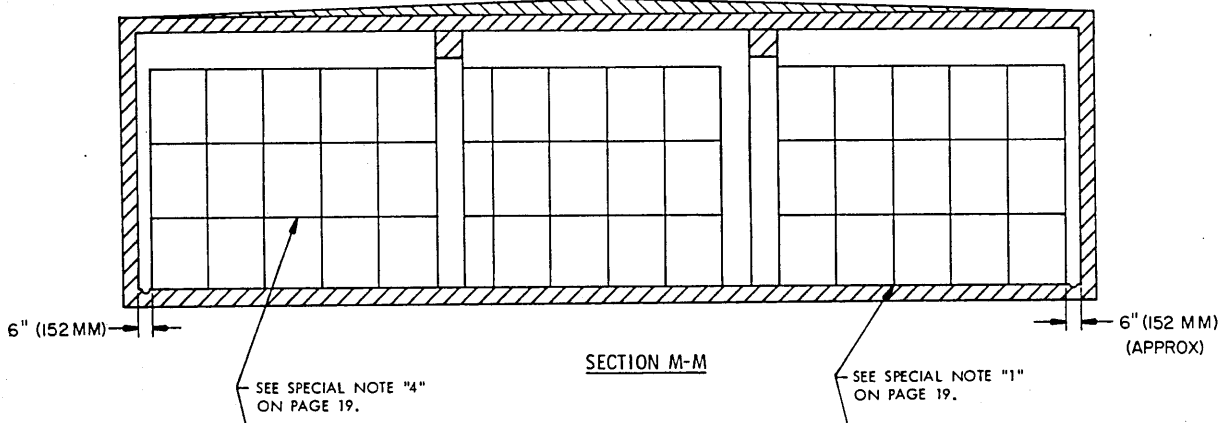
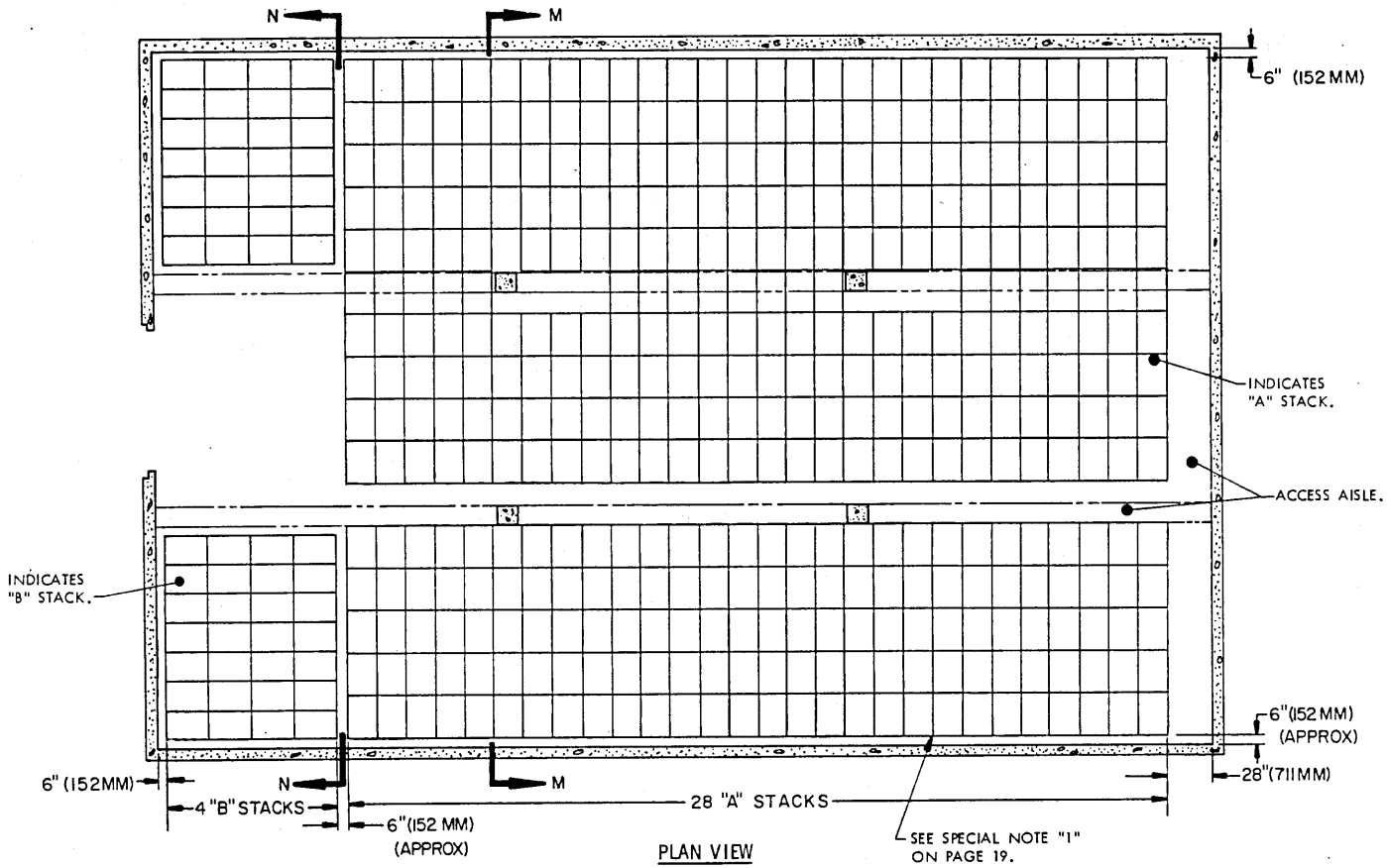
BILL OF MATERIAL PER STACK			
STACK TYPE	LUMBER	LINEAR FEET	BOARD FEET
"A"	2" X 4"	71	48
"B"	2" X 4"	42	28

**SPECIAL NOTES:**

1. WHEN CALCULATING DIMENSIONS, A ONE INCH (1") (25.4MM) SPACE WAS ALLOWED BETWEEN EACH PALLET UNIT TO PROMOTE EASE OF HANDLING BY MHE.
2. PALLETIZED PROJECTILES SHOULD BE HANDLED AND STACKED IN UNITS OF FOUR (4) PALLETES EACH ON FORKLIFT TRUCK WHEREVER POSSIBLE. SEE GENERAL NOTE "L" ON PAGE 2.
3. THE VIEWS SHOWN ON PAGE 16 AND ABOVE DEPICT PALLETIZED SEPARATE LOADING PROJECTILES, 8" (AS SHOWN IN DRAWING NUMBER 19-48-4102-1-2-14PE1001, APR 73).

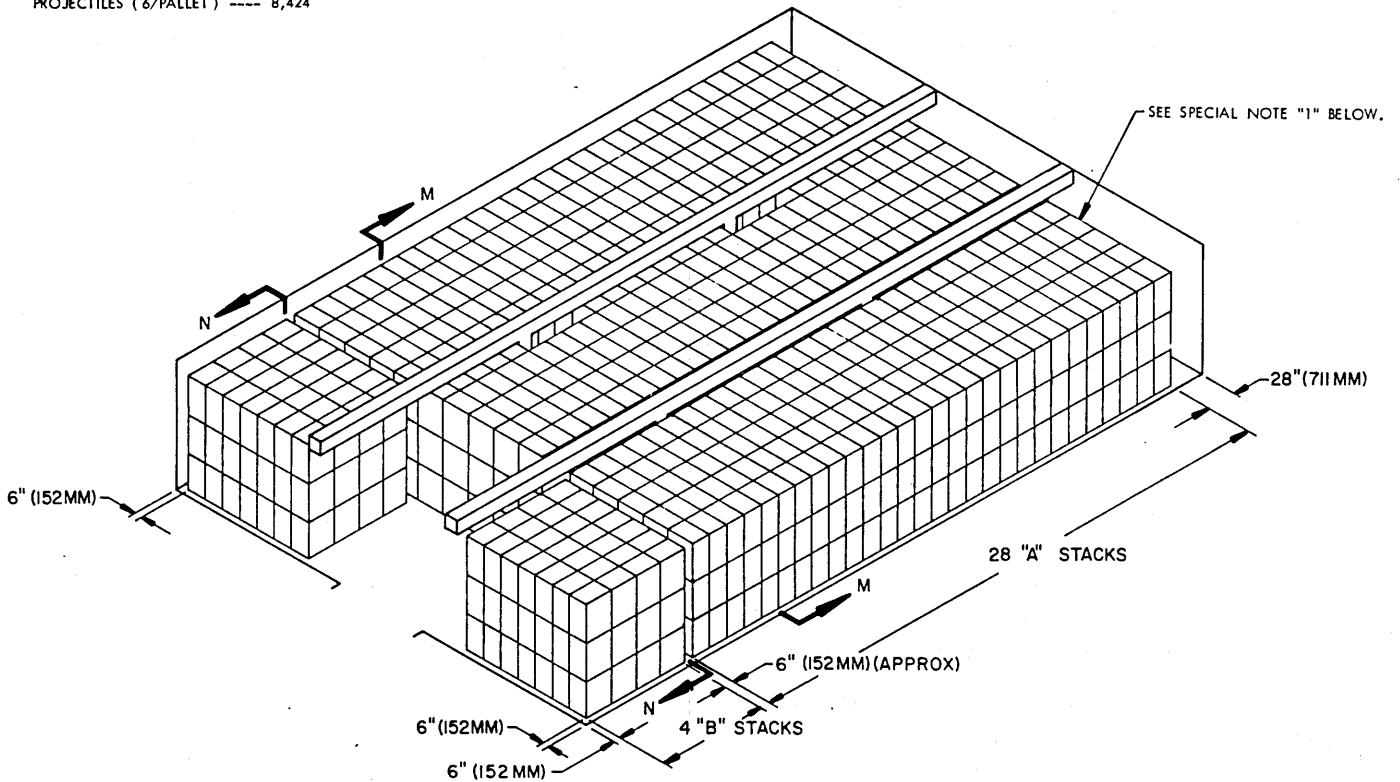


**8", 3/PALLET**



**STORAGE AS SHOWN**

ITEM	QUANTITY
PALLET UNITS -----	1,404
PROJECTILES (6/PALLET) ----	8,424

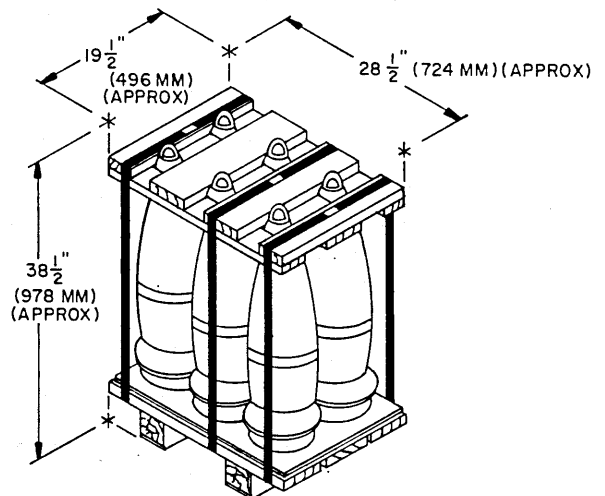


**ISOMETRIC VIEW**

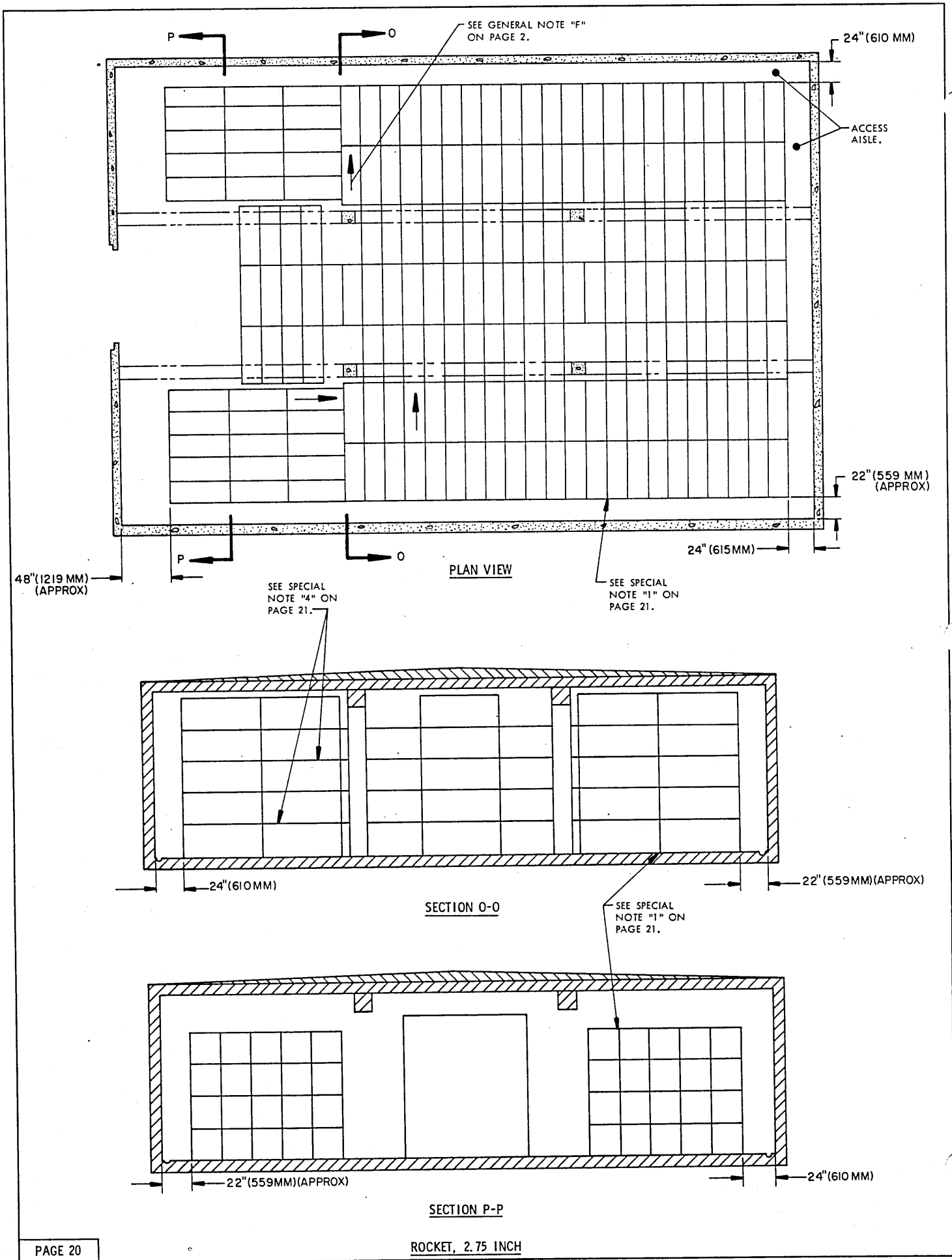
FOR "GENERAL NOTES" SEE PAGE 2.

**SPECIAL NOTES:**

1. WHEN CALCULATING DIMENSIONS, A ONE INCH (1") (25.4MM) SPACE WAS ALLOWED BETWEEN EACH PALLET UNIT TO PROMOTE EASE OF HANDLING BY MHE.
2. PALLETIZED PROJECTILES SHOULD BE HANDLED AND STACKED IN UNITS OF TWO (2) PALLETS EACH ON FORKLIFT TRUCK WHEREVER POSSIBLE.
3. THE VIEWS SHOWN ON PAGE 18 AND ABOVE DEPICT PALLETIZED SEPARATE LOADING PROJECTILES, 8" (AS SHOWN IN DRAWING NUMBER 19-48-4102-1-2-14PE1001, APR 73).
4. IF THE FORKS OF THE LIFT TRUCK ARE OF A THICKNESS WHICH WILL NOT READILY PERMIT SAFE REMOVAL FROM THE STACKS OF PALLET UNITS, 2" X 4" X 38" DUNNAGE MAY BE POSITIONED UNDER AND LONGITUDINALLY WITH THE SKIDS OF THE PALLET UNITS IN THE SECOND AND THIRD LAYERS. TWO (2) PIECES ARE REQUIRED FOR EACH TWO (2) PALLET UNITS BEING STACKED. SEE GENERAL NOTE "L" ON PAGE 2.

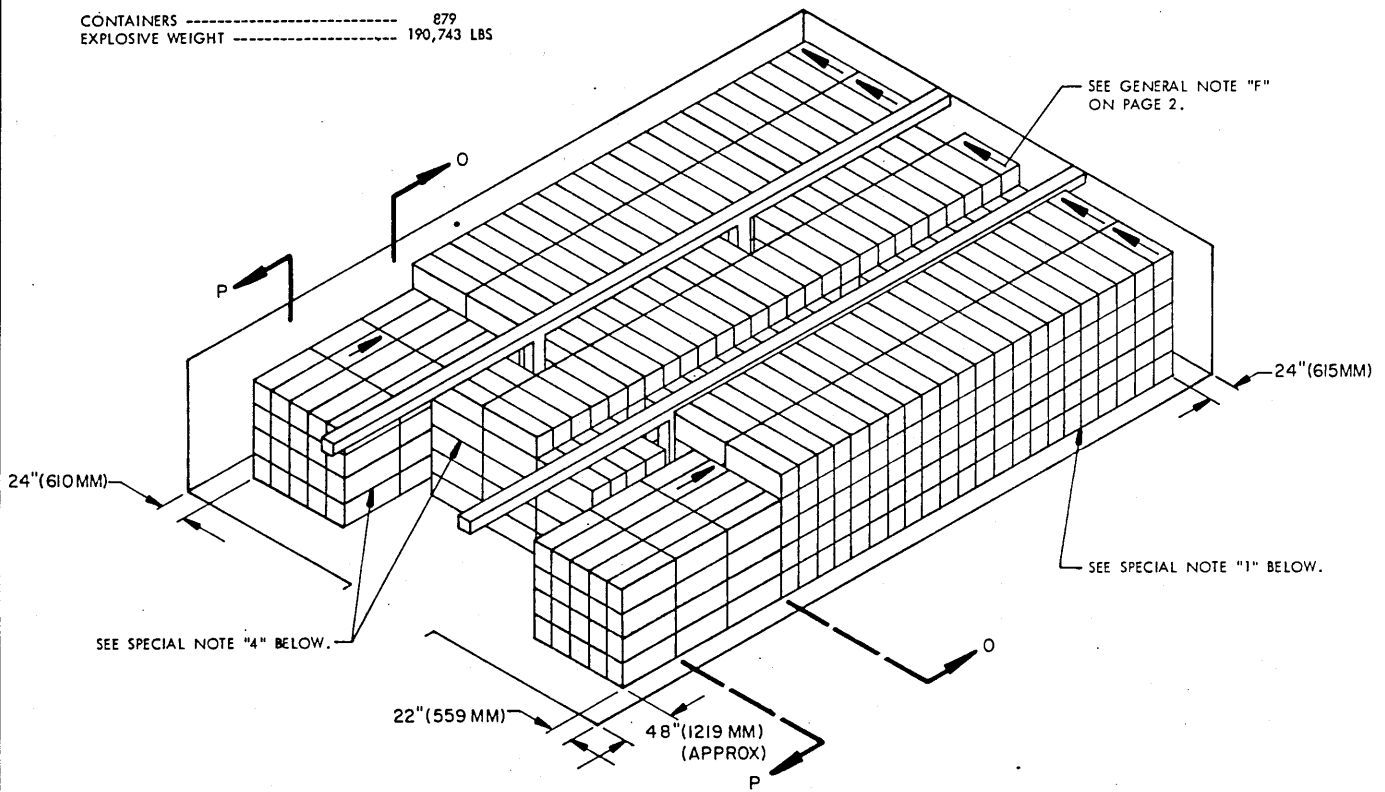


**8", 6/PALLET**



STORAGE AS SHOWN

<u>ITEM</u>	<u>QUANTITY</u>
CONTAINERS -----	879
EXPLOSIVE WEIGHT -----	190,743 LBS

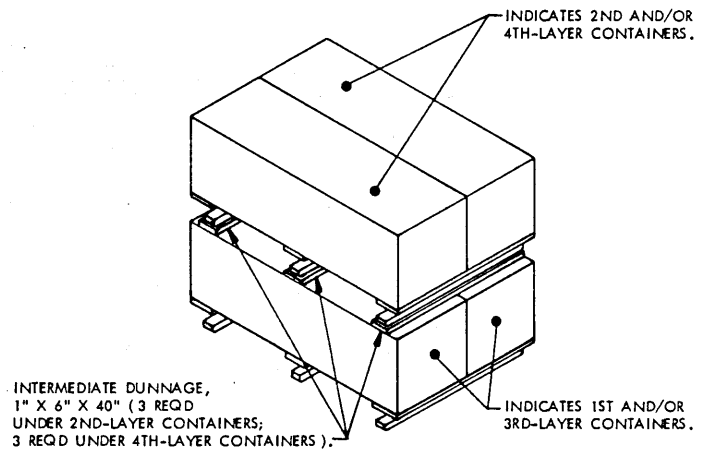


ISOMETRIC VIEW.

SPECIAL NOTES:

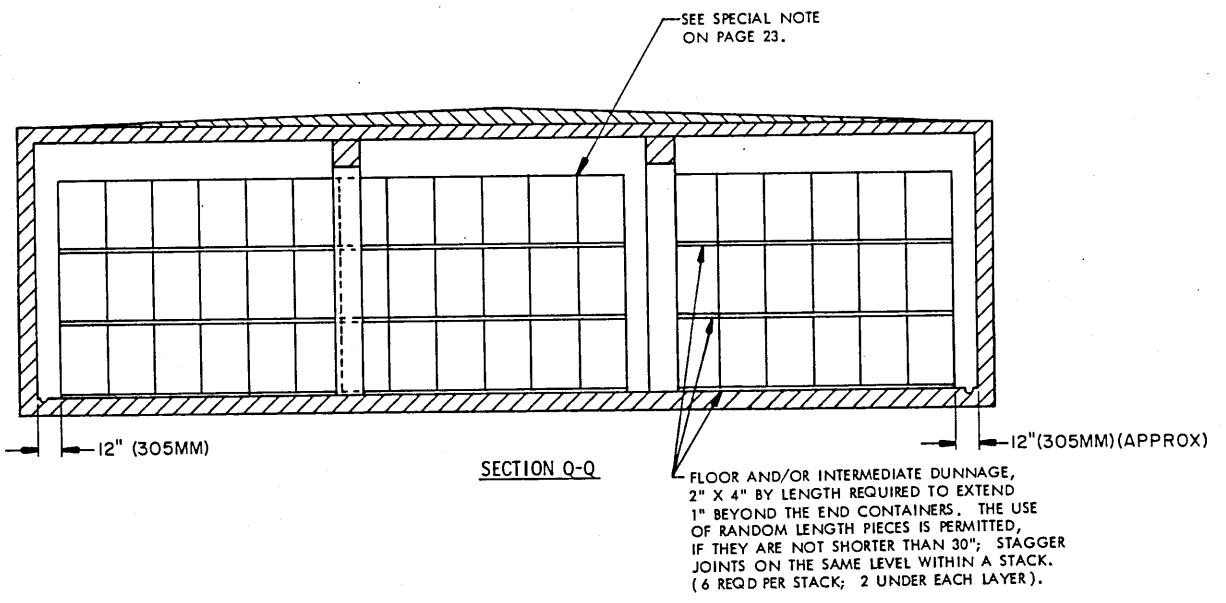
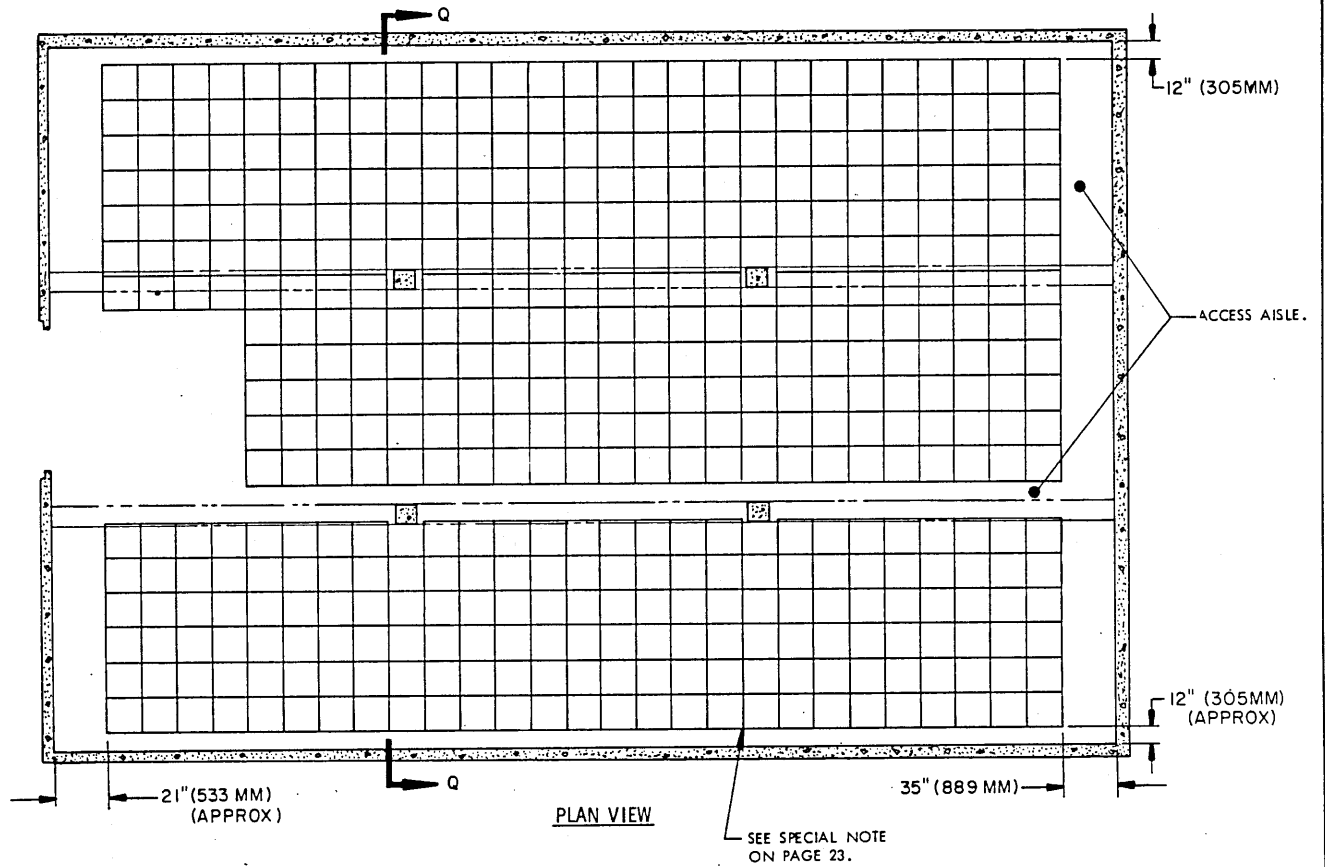
1. WHEN CALCULATING DIMENSIONS, A ONE INCH (1") (25.4MM) SPACE WAS ALLOWED BETWEEN EACH CONTAINER TO PROMOTE EASE OF HANDLING BY MHE.
2. THE STORAGE PROCEDURES SHOWN ON PAGE 20 AND ABOVE ARE APPLICABLE TO 2.75 INCH ROCKETS WHEN THEY ARE PACKAGED TWENTY-FIVE (25) PER PLYWOOD CLEATED BOX. THE STORAGE AS SHOWN IS BASED ON THE 61" LONG CONTAINER. HOWEVER, THE PROCEDURES ALSO APPLY TO STORAGE OF THE 71" LONG CONTAINER, EXCEPT THAT THE QUANTITY THAT CAN BE STORED WILL NECESSARILY BE REDUCED.
3. **CAUTION:** THIS ITEM IS IN A "PROPULSIVE STATE". SEE GENERAL NOTE "F" ON PAGE 2.
4. IF A FORKLIFT TRUCK IS USED FOR STACKING, CONTAINERS SHOULD BE HANDLED FROM THE SIDE IN UNITS OF TWO (2), SIDE BY SIDE. IF DURING STACKING OPERATIONS IT IS DEEMED NECESSARY TO PROVIDE MORE STABILITY TO THE STACKS, INTERMEDIATE DUNNAGE WILL BE USED BETWEEN THE FIRST AND SECOND-LAYER CONTAINERS AND BETWEEN THE THIRD AND FOURTH-LAYER CONTAINERS. DUNNAGE SHOULD BE 1" X 6" X 40" PIECES OF LUMBER, SIX (6) FOR EACH TWO (2) STACKS OF CONTAINERS. AFTER THE TWO (2) FIRST-LAYER CONTAINERS HAVE BEEN SET IN PLACE, POSITION THREE (3) PIECES OF DUNNAGE ON THE FIRST-LAYER CONTAINERS SO THAT EACH PIECE WILL BE LONGITUDINALLY IN ALIGNMENT WITH AND PROVIDE FULL BEARING FOR THE SKIDS OF THE TWO (2) SECOND-LAYER CONTAINERS AS SHOWN IN THE "PLACEMENT OF DUNNAGE" DETAIL AT RIGHT. REPEAT DUNNAGE PLACEMENT BETWEEN THIRD AND FOURTH-LAYER CONTAINERS. SEE GENERAL NOTE "L" ON PAGE 2.

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



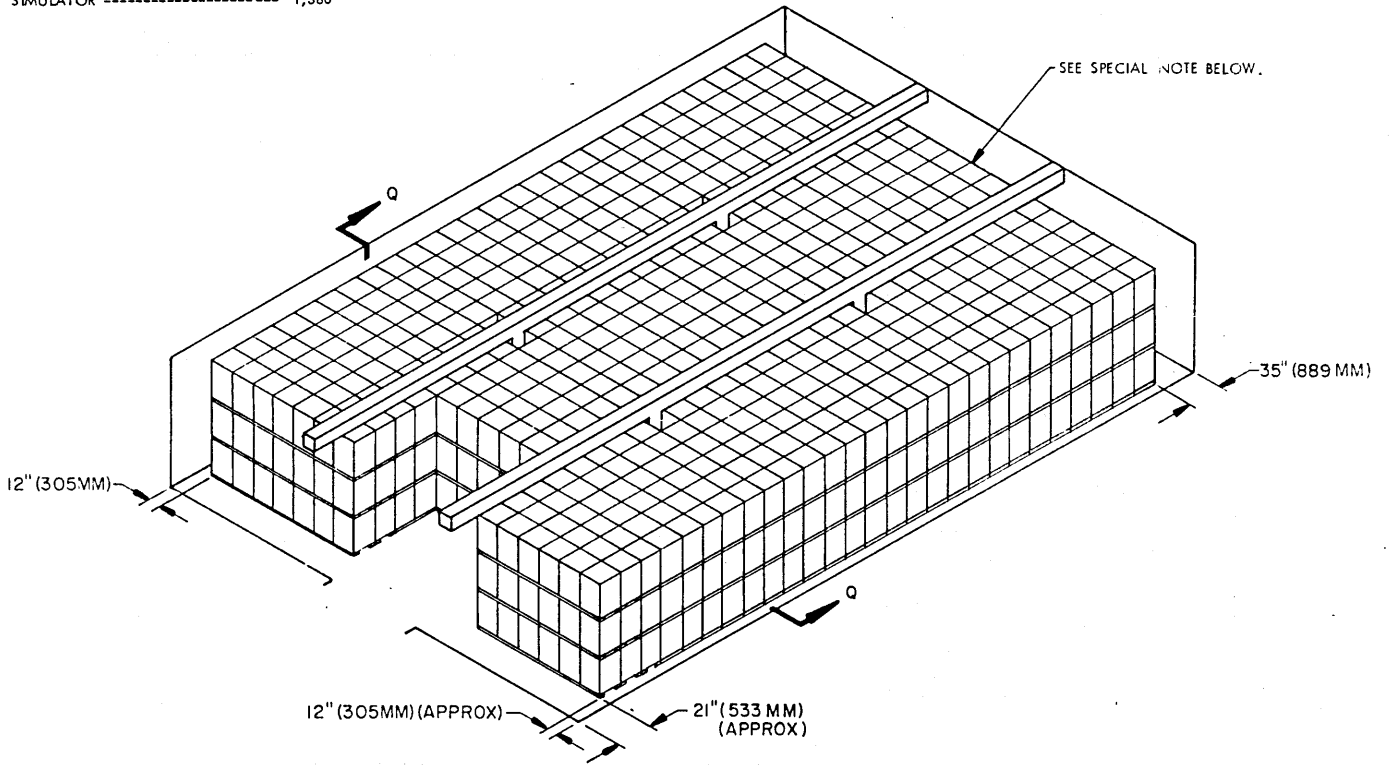
PLACEMENT OF DUNNAGE

SEE SPECIAL NOTE "4" AT LEFT.



STORAGE AS SHOWN

<u>ITEM</u>	<u>QUANTITY</u>
SIMULATOR -----	1,380

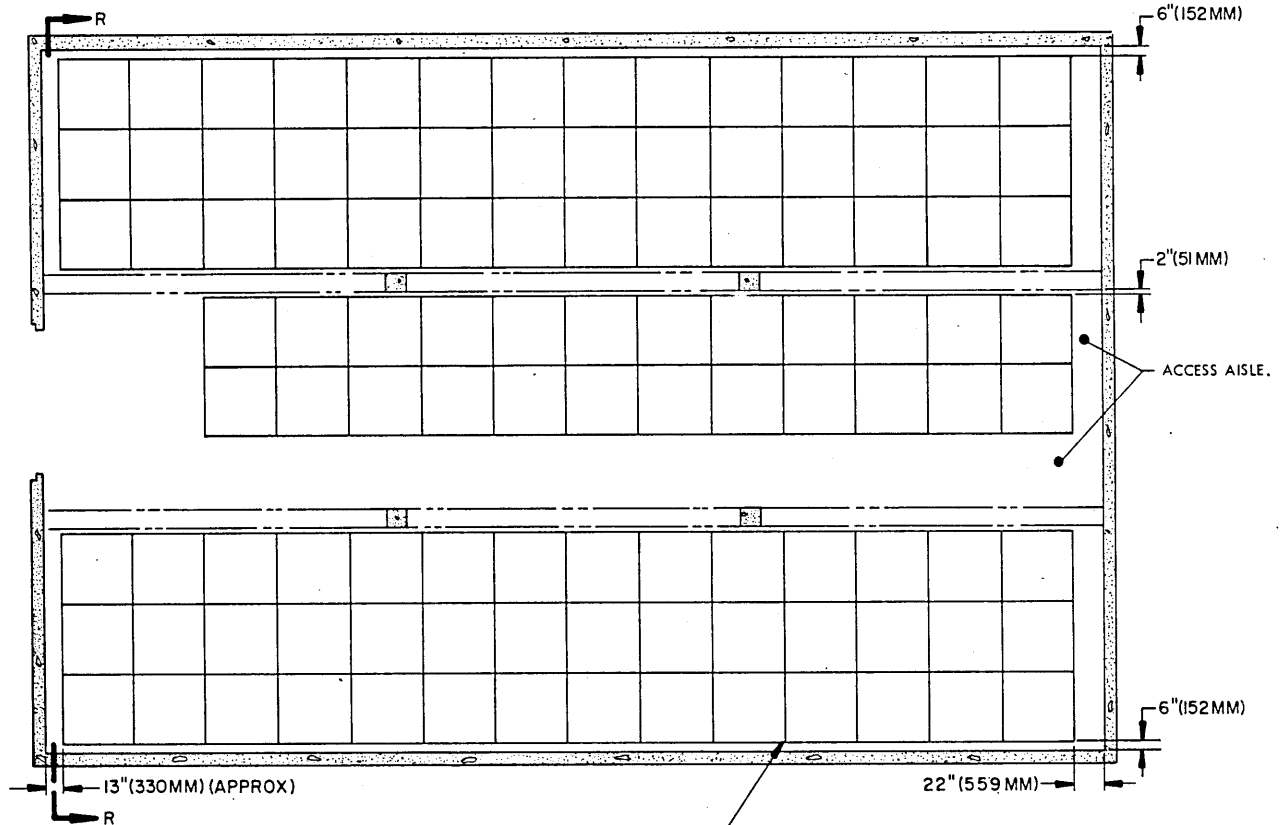


FOR "GENERAL NOTES" AND "MATERIAL SPECIFICATIONS" SEE PAGE 2.

<u>BILL OF MATERIAL PER STACK</u>			
<u>STACK TYPE</u>	<u>LUMBER</u>	<u>LINEAR FEET</u>	<u>BOARD FEET</u>
FULL	2" X 4"	228	152
PARTIAL	2" X 4"	168	112

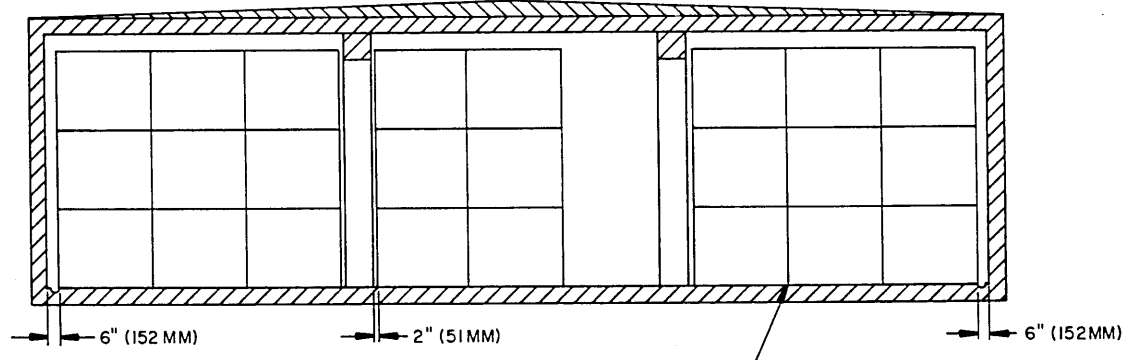
SPECIAL NOTE:

WHEN CALCULATING DIMENSIONS, A ONE INCH (1") (25.4MM) SPACE WAS ALLOWED BETWEEN EACH CONTAINER TO PROMOTE EASE OF HANDLING BY MHE.



PLAN VIEW

SEE SPECIAL NOTE ON PAGE 25.



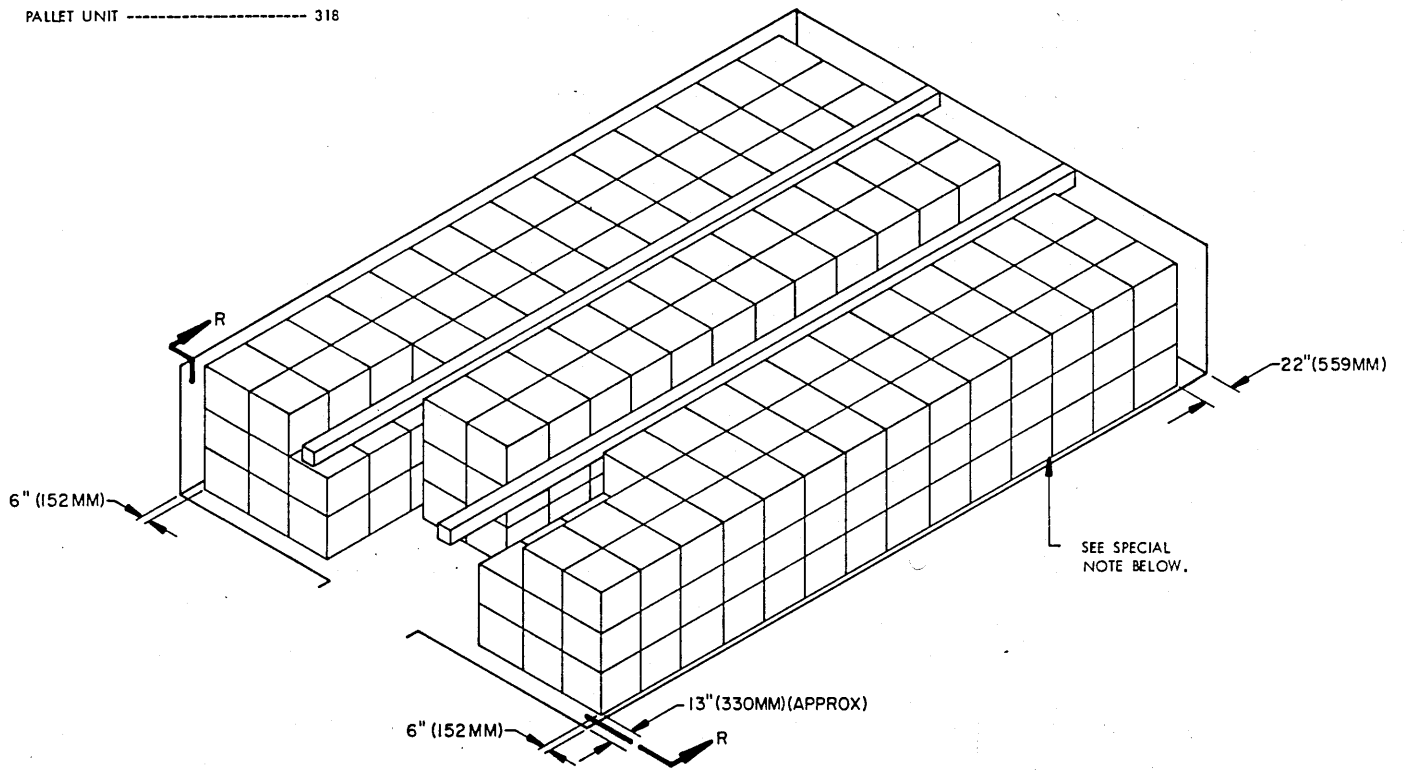
SECTION R-R

SEE SPECIAL NOTE ON PAGE 25.



STORAGE AS SHOWN

<u>ITEM</u>	<u>QUANTITY</u>
PALLET UNIT -----	318

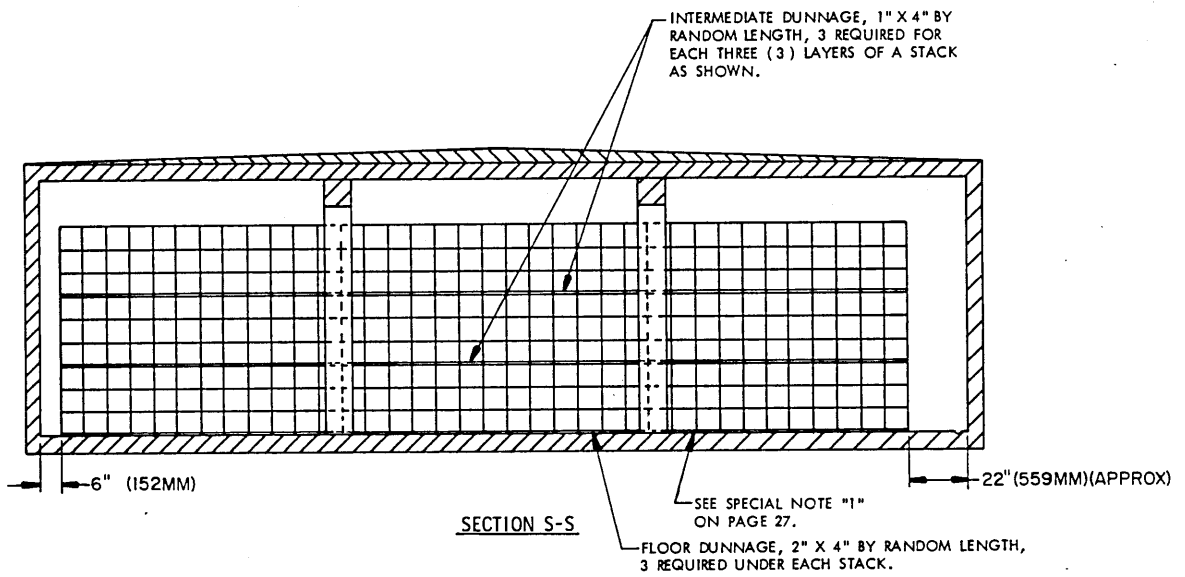
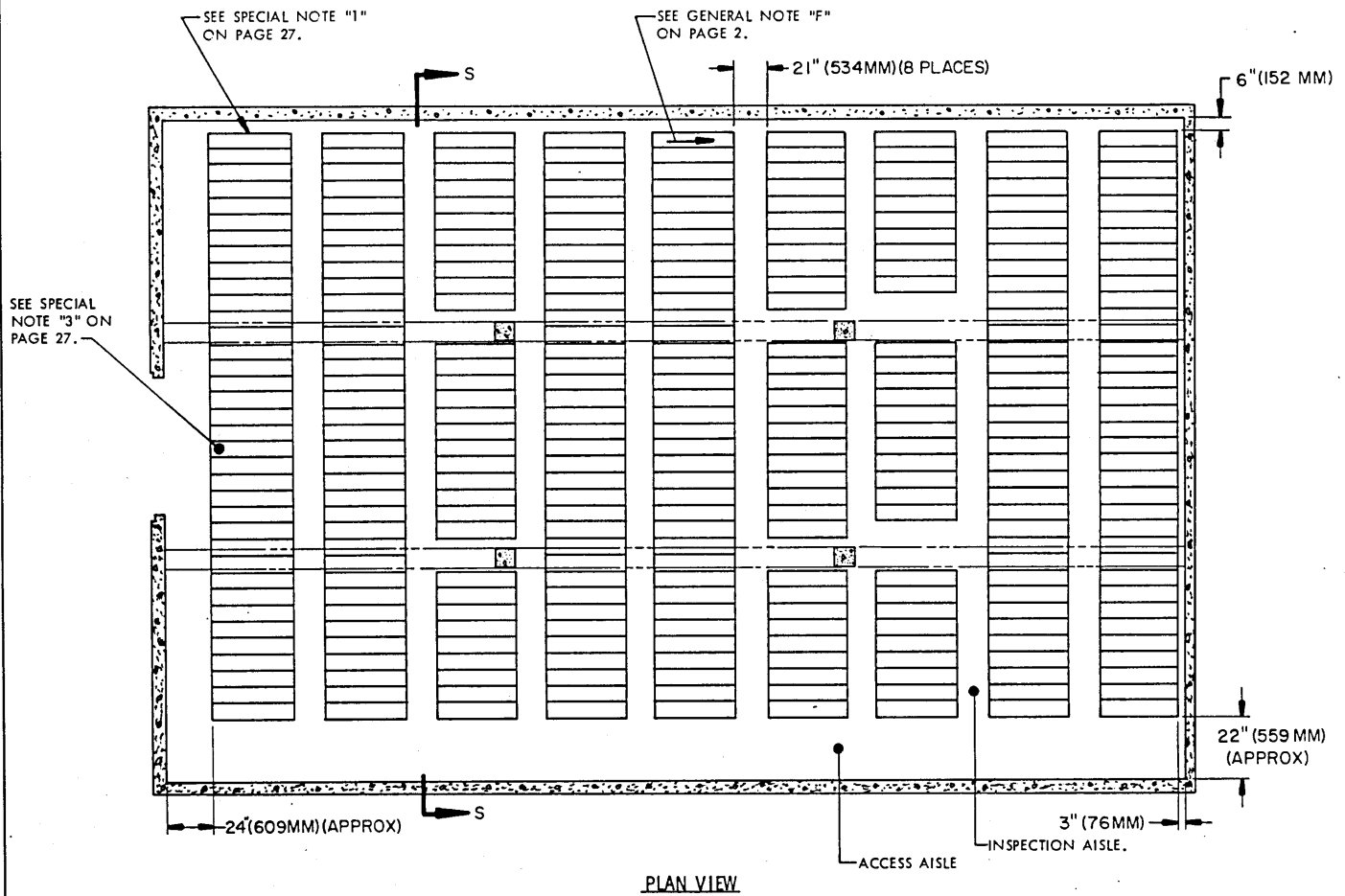


ISOMETRIC VIEW

FOR "GENERAL NOTES" SEE PAGE 2.

SPECIAL NOTE:

WHEN CALCULATING DIMENSIONS, A ONE INCH (1") (25.4MM) SPACE WAS ALLOWED BETWEEN EACH PALLET UNIT TO PROMOTE EASE OF HANDLING BY MHE.

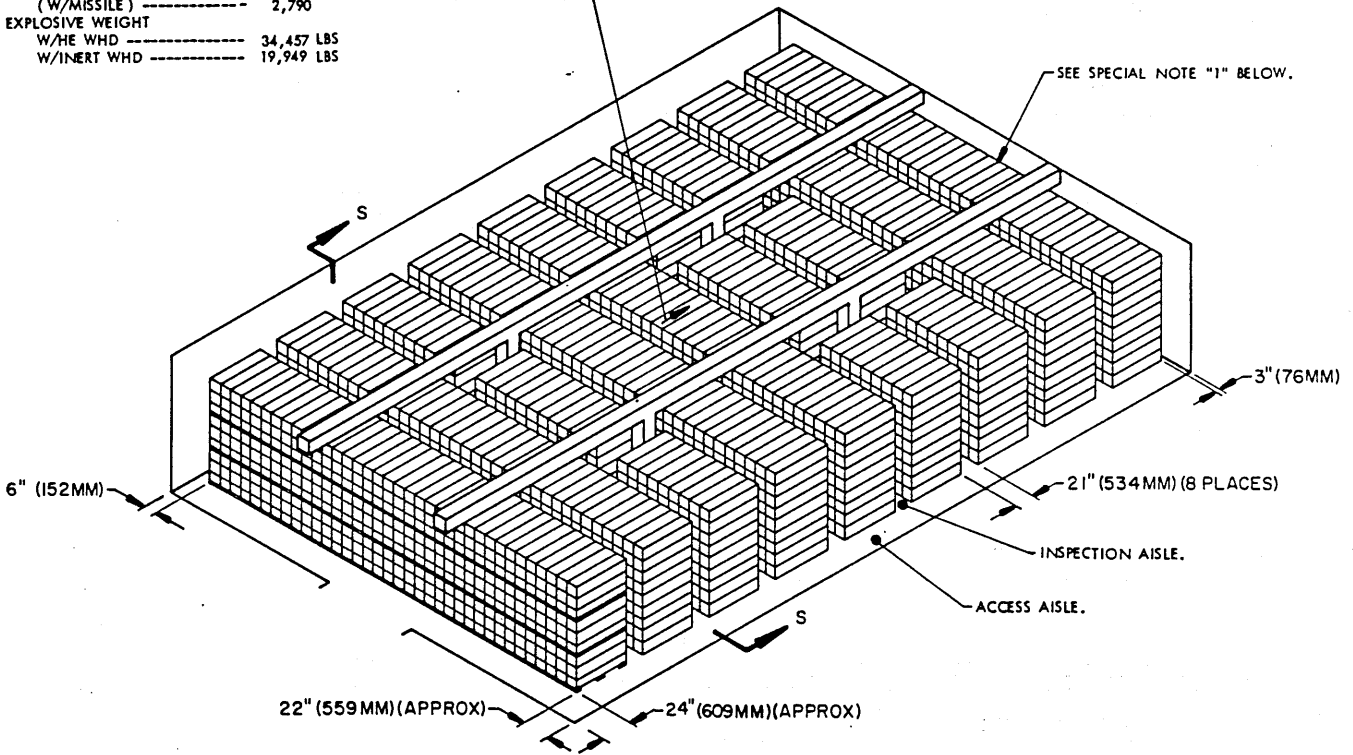


**STORAGE AS SHOWN**

ITEM	QUANTITY
WIREBOUND BOX (W/MISSILE)	2,790
EXPLOSIVE WEIGHT W/HE WHD	34,457 LBS
W/INERT WHD	19,949 LBS

SEE GENERAL NOTE "F" ON PAGE 2.

SEE SPECIAL NOTE "1" BELOW.



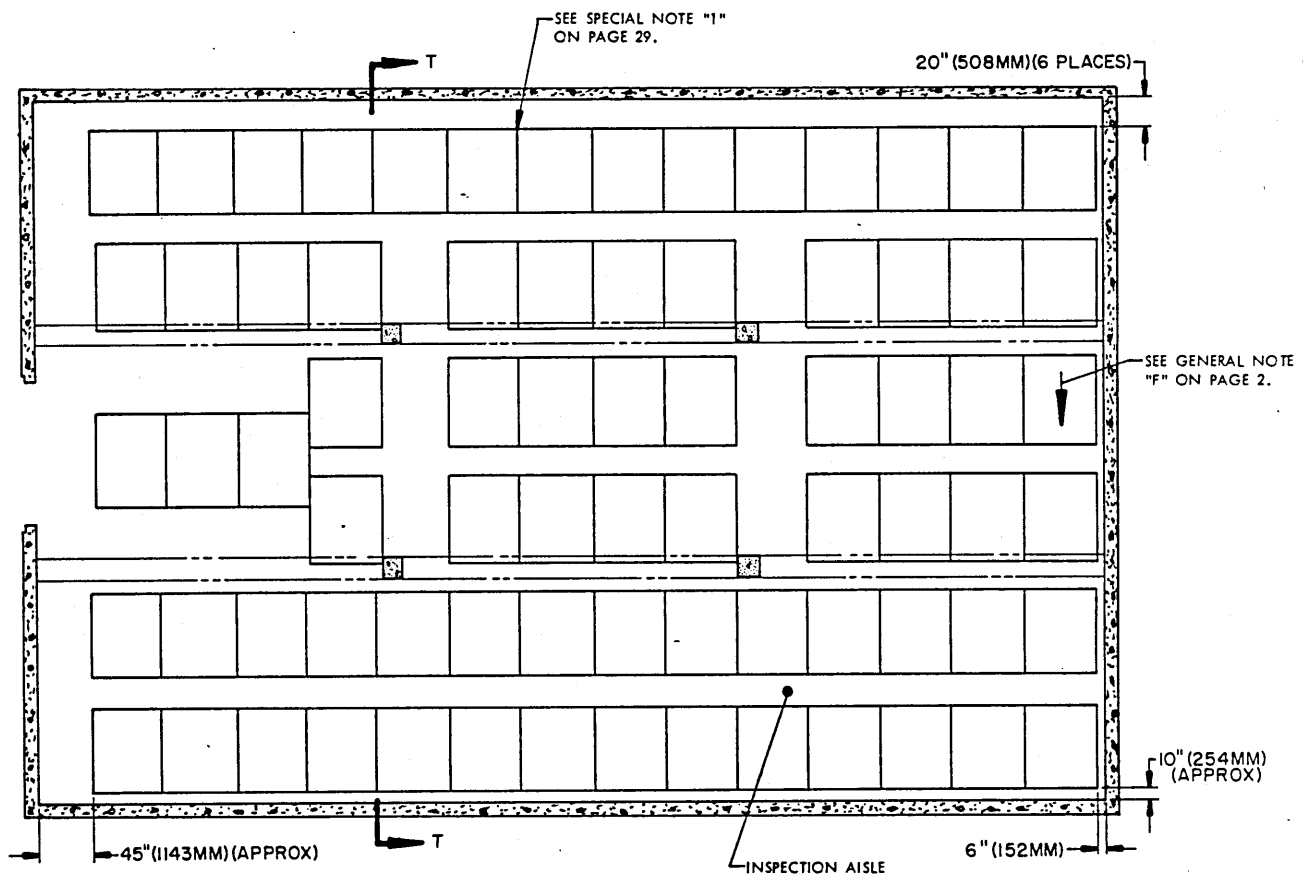
**ISOMETRIC VIEW**

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

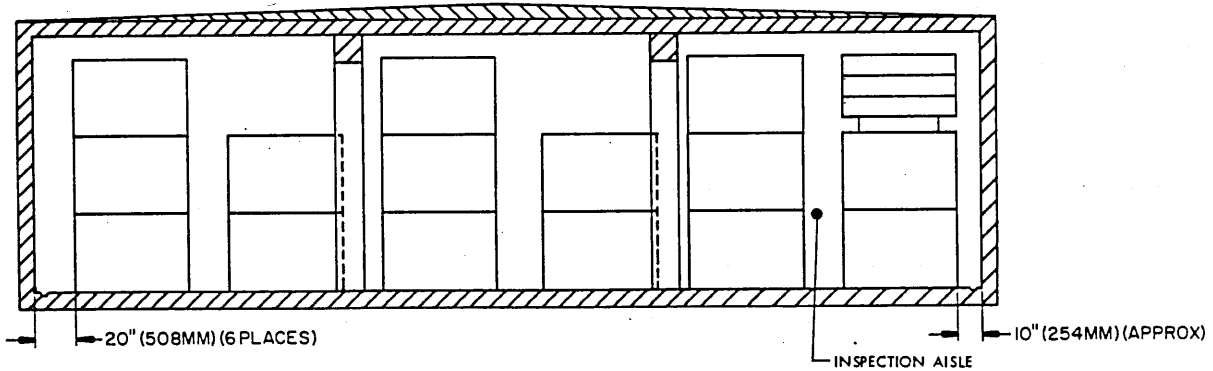
**SPECIAL NOTES:**

1. WHEN CALCULATING DIMENSIONS, A ONE INCH (1") (25.4MM) SPACE WAS ALLOWED BETWEEN EACH CONTAINER TO PROMOTE EASE OF HANDLING BY MHE.
2. CAUTION: THIS ITEM IS IN A "PROPULSIVE STATE". SEE GENERAL NOTE "F" ON PAGE 2.
3. IF DESIRED, CONTAINERS IN THE IMMEDIATE DOORWAY AREA OF THE FORWARD-MOST STACK MAY BE OMITTED.

BILL OF MATERIAL PER STACK		
LUMBER	LINEAR FEET	BOARD FEET
1" X 4"	228	76
2" X 4"	114	76



PLAN VIEW

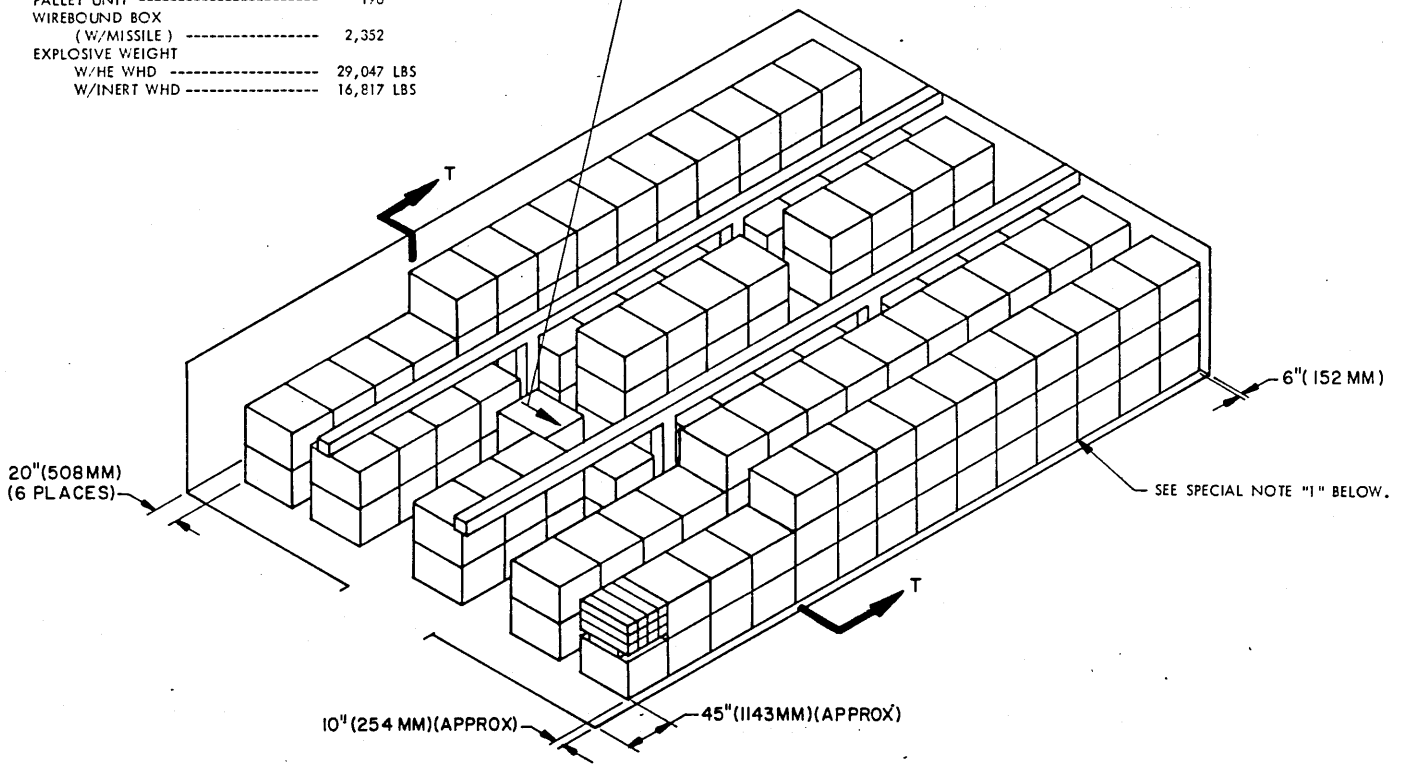


SECTION T-T

STORAGE AS SHOWN

SEE GENERAL NOTE "F"  
ON PAGE 2.

ITEM	QUANTITY
PALLET UNIT -----	196
WIREBOUND BOX (W/MISSILE) -----	2,352
EXPLOSIVE WEIGHT	
W/HE WHD -----	29,047 LBS
W/INERT WHD -----	16,817 LBS

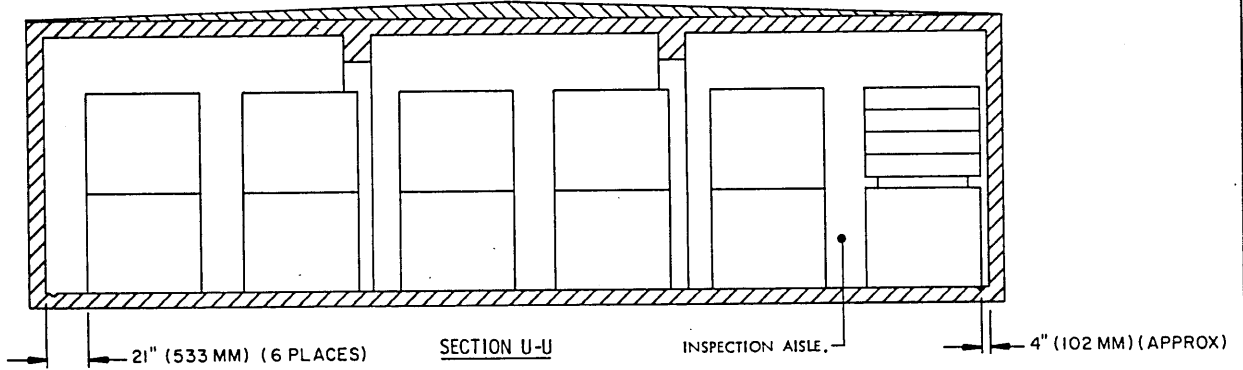
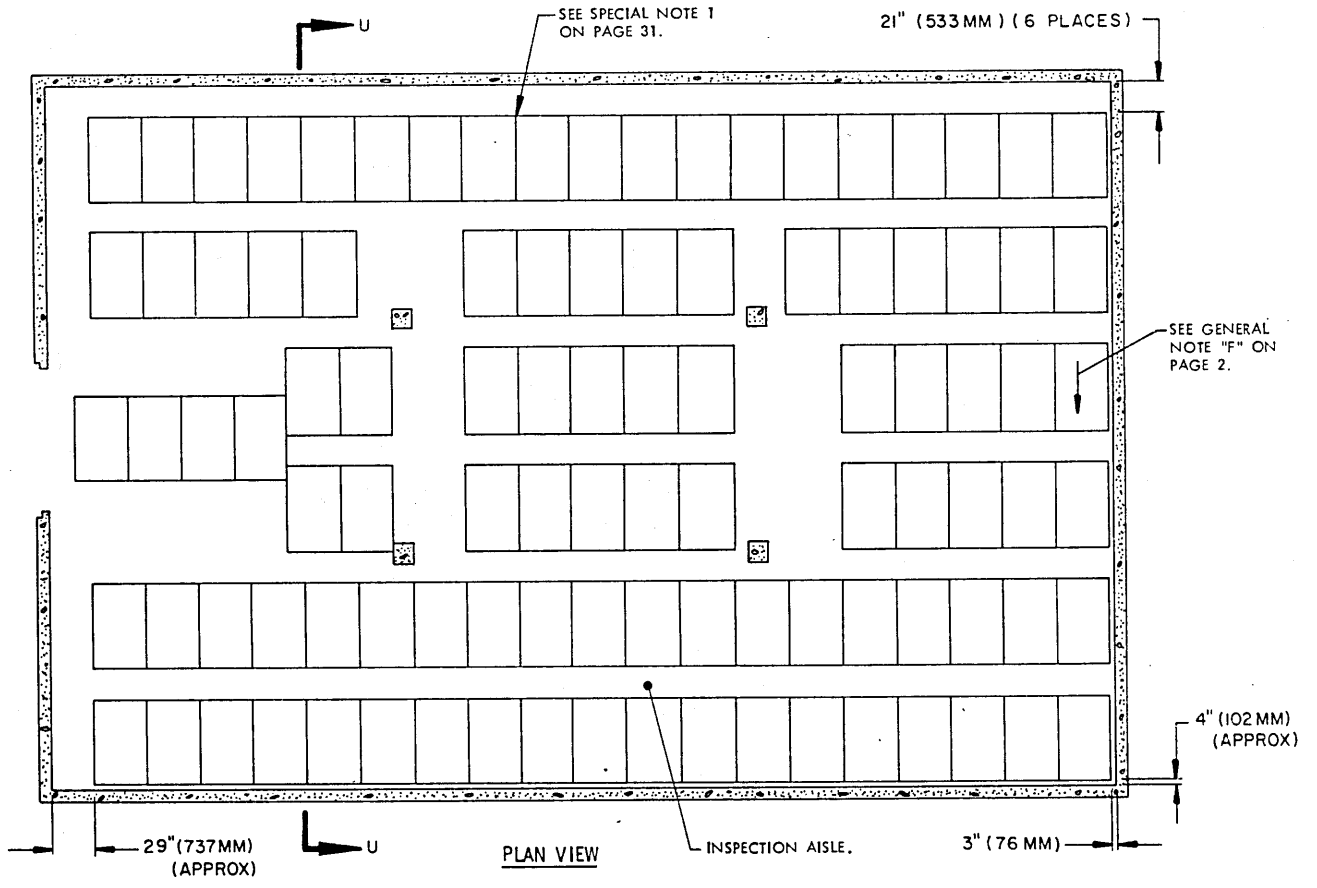


ISOMETRIC VIEW

FOR "GENERAL NOTES" SEE PAGE 2.

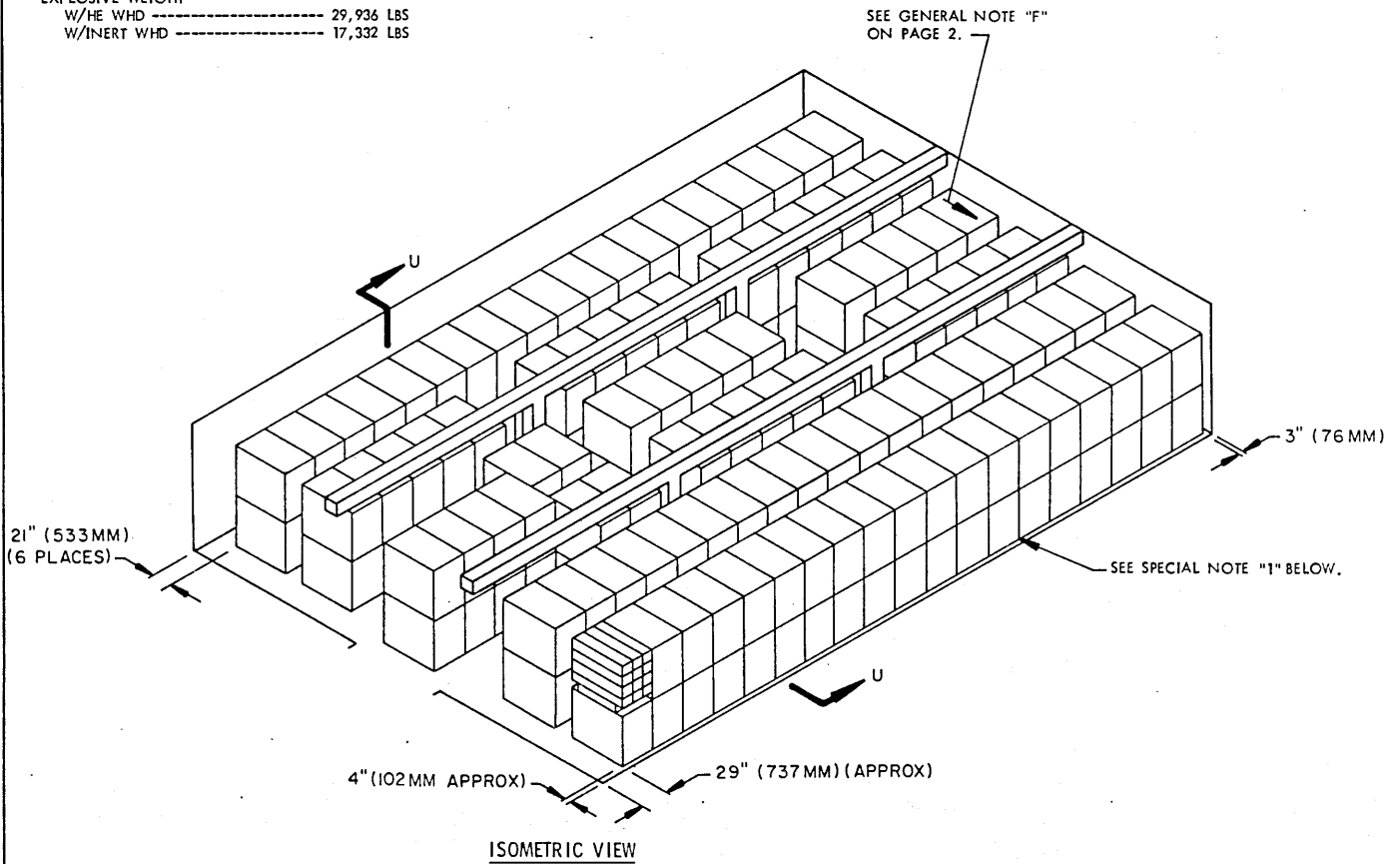
SPECIAL NOTES:

1. WHEN CALCULATING DIMENSIONS, A ONE INCH (1") (25.4MM) SPACE WAS ALLOWED BETWEEN EACH PALLET UNIT TO PROMOTE EASE OF HANDLING BY MHE.
2. **CAUTION:** THIS ITEM IS IN A "PROPULSIVE STATE". SEE GENERAL NOTE "F" ON PAGE 2.
3. IF DESIRED, AND IF AVAILABLE MHE PERMITS, ADDITIONAL PALLET UNITS MAY BE STORED IN THE FRONTAL AREA OF THE MAGAZINE.



**STORAGE AS SHOWN**

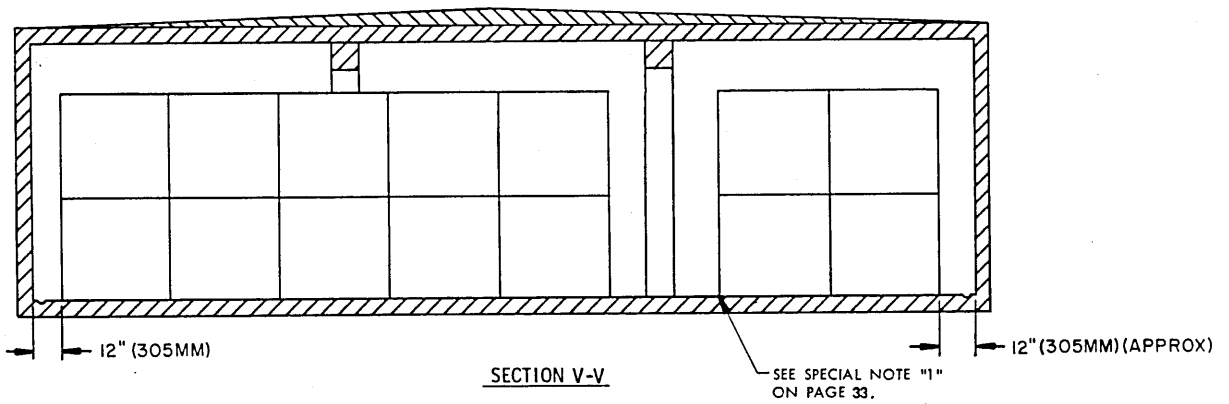
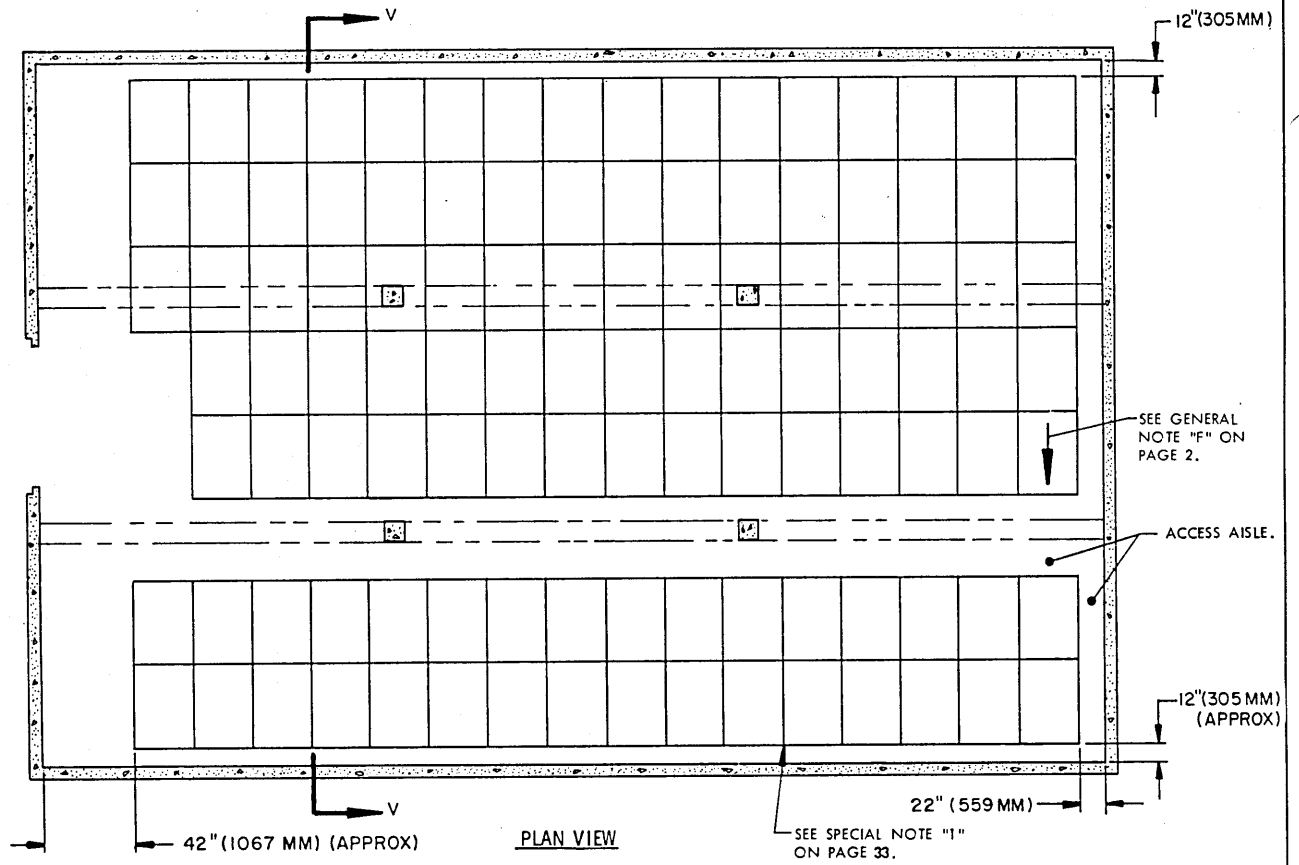
ITEM	QUANTITY
PALLET UNIT -----	202
WIREBOUND BOX ( W/MISSILE ) -----	2,424
EXPLOSIVE WEIGHT W/HE WHD -----	29,936 LBS
W/INERT WHD -----	17,332 LBS



**SPECIAL NOTES:**

1. WHEN CALCULATING DIMENSIONS, A ONE INCH ( 1" ) ( 25.4MM ) SPACE WAS ALLOWED BETWEEN EACH PALLET UNIT TO PROMOTE EASE OF HANDLING BY MHE.
2. CAUTION: THIS ITEM IS IN A "PROPULSIVE STATE". SEE GENERAL NOTE "F" ON PAGE 2.
3. IF DESIRED, AND IF AVAILABLE MHE PERMITS, ADDITIONAL PALLET UNITS MAY BE STORED IN THE FRONTAL AREA OF THE MAGAZINE.

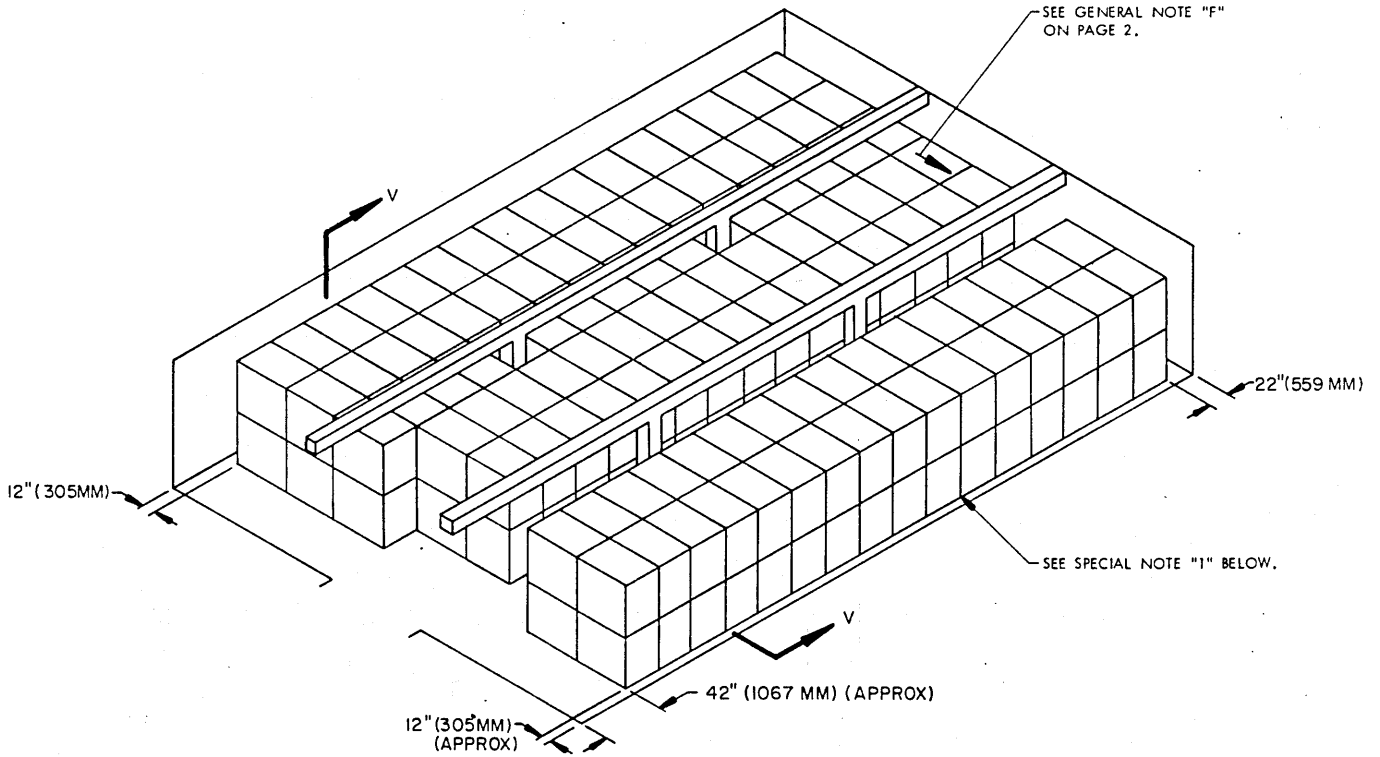
FOR "GENERAL NOTES" SEE PAGE 2.





STORAGE AS SHOWN

<u>ITEM</u>	<u>QUANTITY</u>
UNIPAK -----	216
CONTAINERS -----	2,592
EXPLOSIVE WEIGHT -----	18,144 LBS

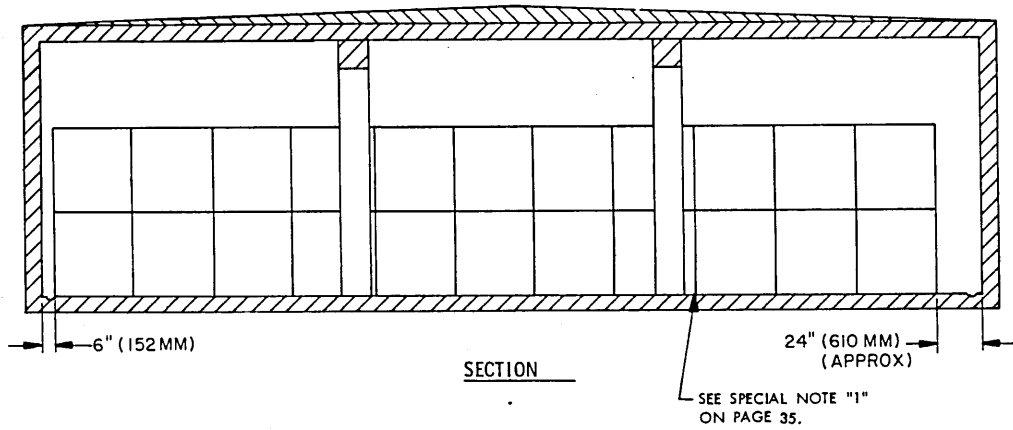
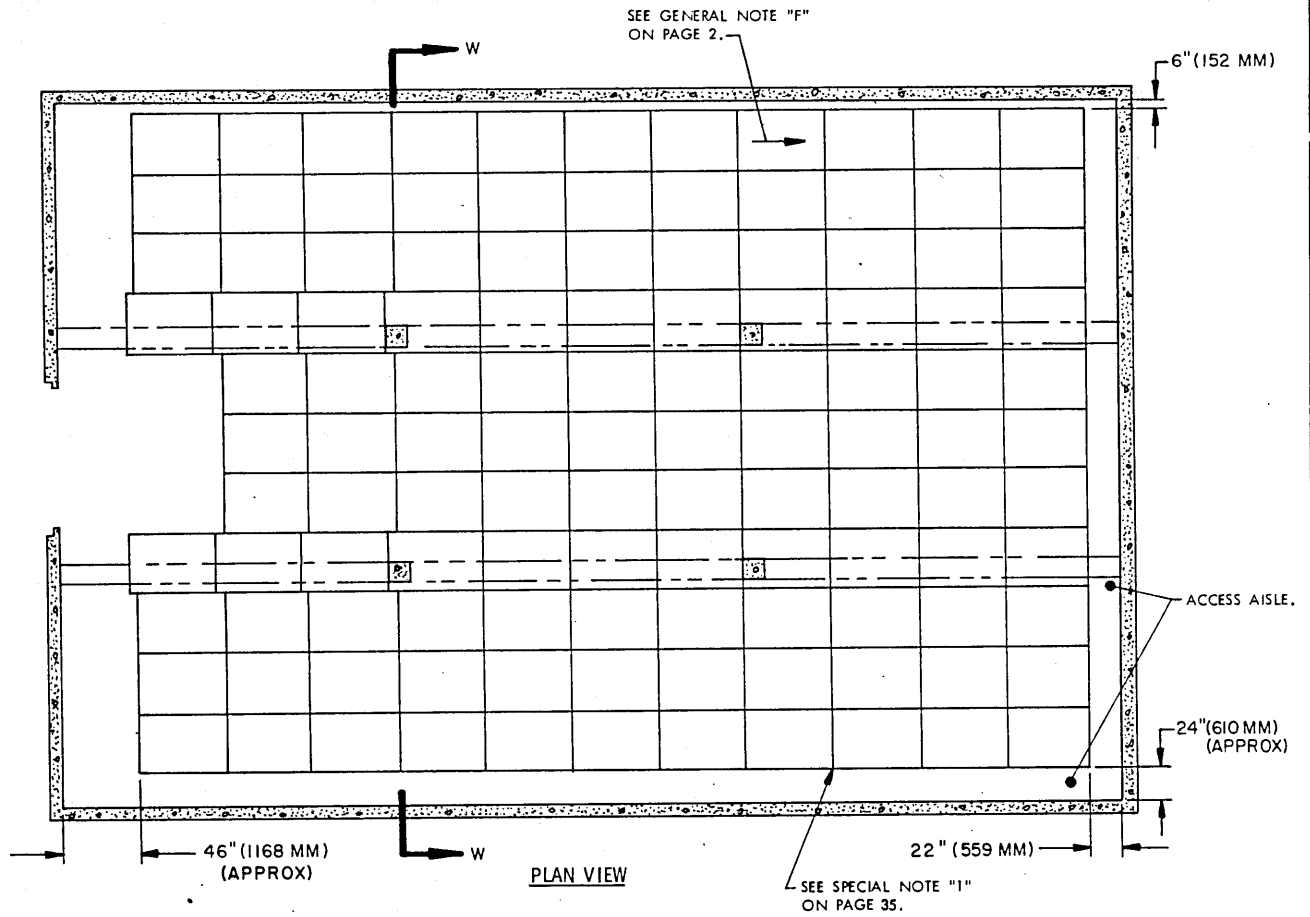


ISOMETRIC VIEW

FOR "GENERAL NOTES" SEE PAGE 2.

SPECIAL NOTES:

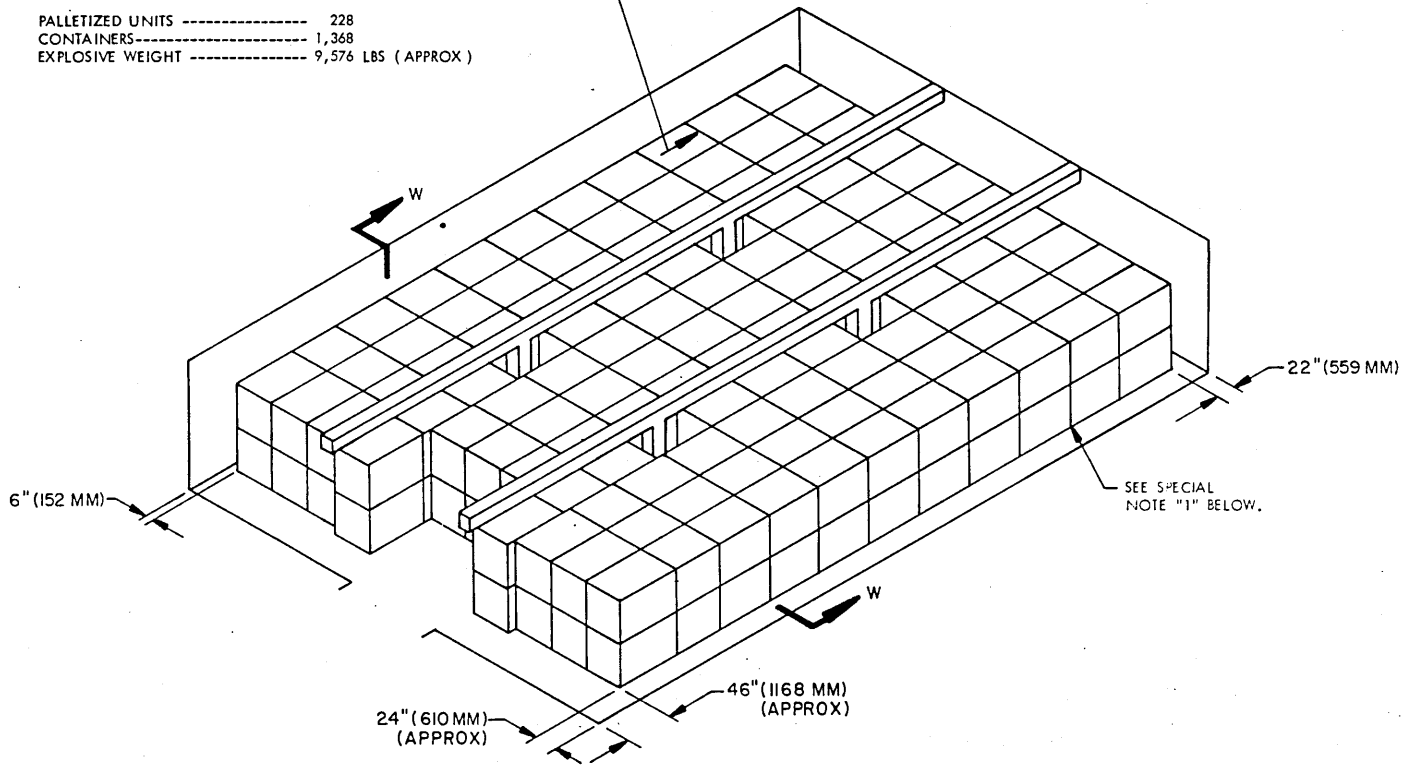
1. WHEN CALCULATING DIMENSIONS, A ONE INCH (1") (25.4MM) SPACE WAS ALLOWED BETWEEN EACH PALLET UNIT TO PROMOTE EASE OF HANDLING BY MHE.
2. CAUTION: THIS ITEM IS IN A "PROPULSIVE STATE". SEE GENERAL NOTE "F" ON PAGE 2.



STORAGE AS SHOWN

<u>ITEM</u>	<u>QUANTITY</u>
PALLETIZED UNITS -----	228
CONTAINERS-----	1,368
EXPLOSIVE WEIGHT -----	9,576 LBS (APPROX)

SEE GENERAL NOTE "F"  
ON PAGE 2.

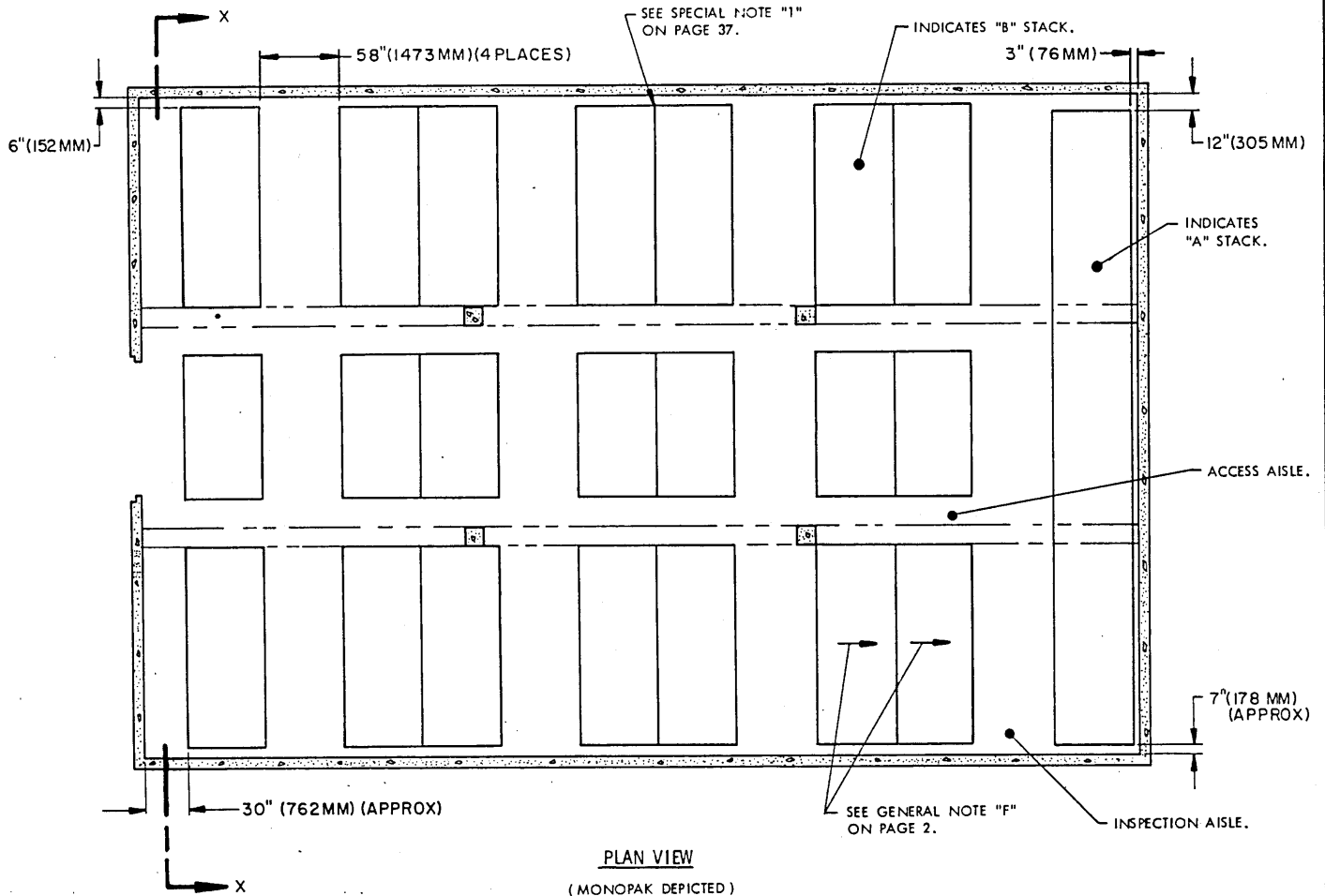


ISOMETRIC VIEW

SPECIAL NOTES:

1. WHEN CALCULATING DIMENSIONS, A ONE INCH (1") (25.4MM) SPACE WAS ALLOWED BETWEEN EACH PALLET UNIT TO PROMOTE EASE OF HANDLING BY MHE.
2. CAUTION: THIS ITEM IS IN A "PROPULSIVE STATE". SEE GENERAL NOTE "F" ON PAGE 2.

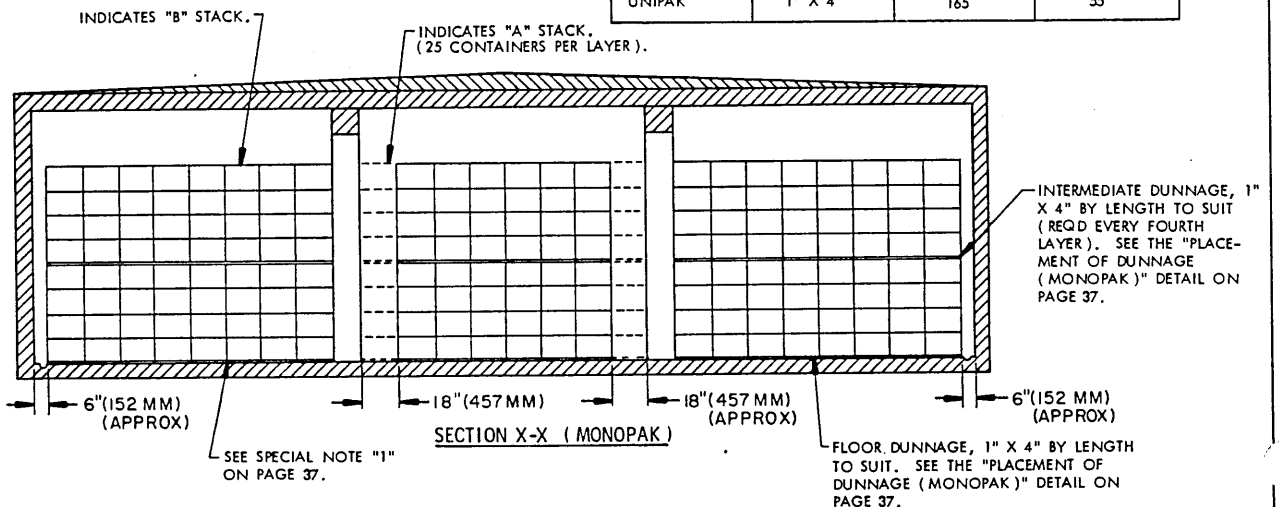
FOR "GENERAL NOTES" SEE PAGE 2.

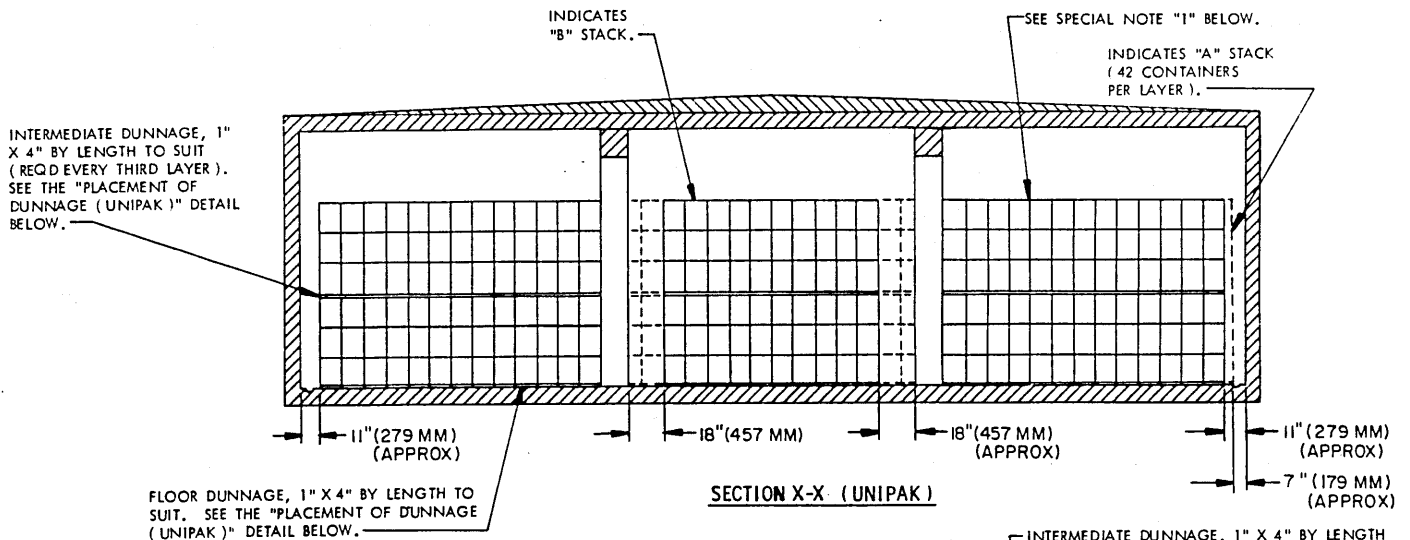


STORAGE AS SHOWN		
ITEM	QUANTITY OF CONTAINERS	EXPLOSIVE WEIGHT (APPROX.)
MONOPAK	1432	10,024 LBS
UNIPAK	1764	12,348 LBS

BILL OF MATERIAL PER "A" STACK			
ITEM	LUMBER	LINEAR FEET	BOARD FEET
MONOPAK	1" X 4"	231	77
UNIPAK	1" X 4"	195	65

BILL OF MATERIAL PER "B" STACK			
ITEM	LUMBER	LINEAR FEET	BOARD FEET
MONOPAK	1" X 4"	204	68
UNIPAK	1" X 4"	165	55





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

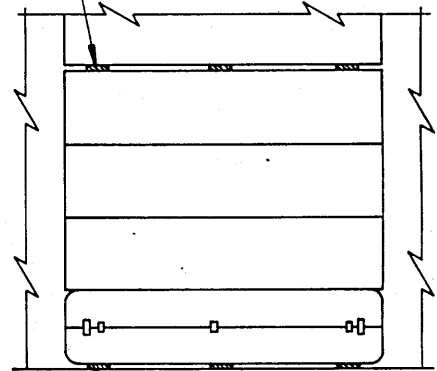
**SPECIAL NOTES:**

1. WHEN CALCULATING DIMENSIONS A ONE INCH (1") (25.4MM) SPACE WAS ALLOWED BETWEEN EACH CONTAINER TO PROMOTE EASE OF HANDLING BY MHE.
2. **CAUTION:** THIS ITEM IS IN A "PROPULSIVE STATE". SEE GENERAL NOTE "F" ON PAGE 2.
3. THE SECTION VIEWS ON PAGE 36 AND ABOVE ARE SHOWN TO INDICATE THE STACKING PATTERN FOR EACH OF THE DESIGNATED CONTAINERS IN AMMUNITION BUNKERS (TYPE 111A-40' X 60'). THE DEPICTED STACKING PATTERNS ALLOW FOR STORAGE OF A MAXIMUM QUANTITY OF CONTAINERS IN A STACK. THE NUMBER OF LAYERS PER STACK OR THE NUMBER OF ROWS PER STACK MAY BE DECREASED AS DESIRED OR AS IS NECESSARY TO SUIT EXISTING REQUIREMENTS.
4. THE PLAN VIEW ON PAGE 36 IS SHOWN TO INDICATE THE STORAGE PATTERN FOR A FULL MAGAZINE, CONSISTING OF DOUBLE STACKS (EXCEPT FOR THE REAR-MOST STACK). IF ONLY ONE END OF A CONTAINER BEARS THE SERIAL NUMBER, THIS STORAGE PATTERN, WITH THE CONTAINERS HAVING THEIR FORWARD ENDS FACING TOWARD THE REAR OF THE MAGAZINE AS THEY MUST, WILL RESULT IN THE SERIAL NUMBERS BEING VISIBLE ON CONTAINERS IN ONLY ONE OF THE DOUBLE STACKS. IT WILL BE NECESSARY TO "TAG" OR OTHERWISE IDENTIFY THE SERIAL NUMBERS OF THE CONTAINERS IN THE ADJACENT STACK IN ORDER TO PROVIDE FOR SUBSEQUENT REMOVAL OF SPECIFIC SERIALLY NUMBERED CONTAINERS.
5. IF A CONTAINER IS IDENTIFIED BY A SERIAL NUMBER ON ONE END ONLY, AND IF THE SPACE IN THE MAGAZINE PERMITS, SINGLE STACKS MAY BE FORMED IN LIEU OF THE DOUBLE-STACK PATTERN DEPICTED. ACCESS AISLES TO PERMIT READING SERIAL NUMBERS NEED NOT BE MORE THAN 30" (762MM) WIDE. HOWEVER, EACH STACK MUST HAVE AN ADJACENT LATERAL INSPECTION AISLE OF APPROXIMATELY 57" (1447MM) TO PERMIT REMOVAL OF CONTAINERS FROM ONE SIDE OF THE STACK.
6. THE MONOPAK CONTAINERS WILL NOT BE STACKED MORE THAN FOUR (4) HIGH WITHOUT BEING TIED TO AT LEAST ONE (1) LATERALLY ADJACENT CONTAINER-STACK WITH INTERMEDIATE DUNNAGE. THE UNIPAK CONTAINERS WILL NOT BE STACKED MORE THAN THREE (3) HIGH WITHOUT BEING TIED TO AT LEAST TWO (2) LATERALLY ADJACENT CONTAINER-STACKS WITH INTERMEDIATE DUNNAGE.

**NOTE ▲:**

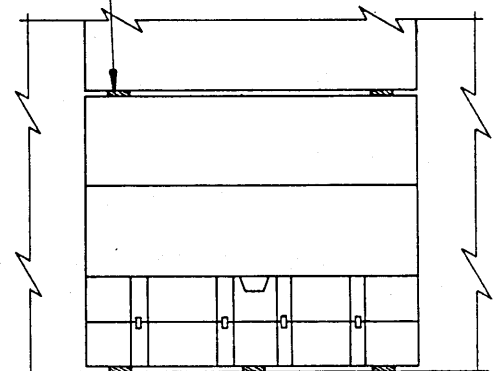
THE JOINTS OF ADJACENT INTERMEDIATE DUNNAGE PIECES WITHIN EACH STACK MUST BE STAGGERED AT LEAST 24" (610MM) TO PROVIDE PROPER STABILITY.

INTERMEDIATE DUNNAGE, 1" X 4" BY LENGTH TO SUIT (3 REQD EVERY FOURTH LAYER). POSITION IN LINE WITH THE FLOOR DUNNAGE.



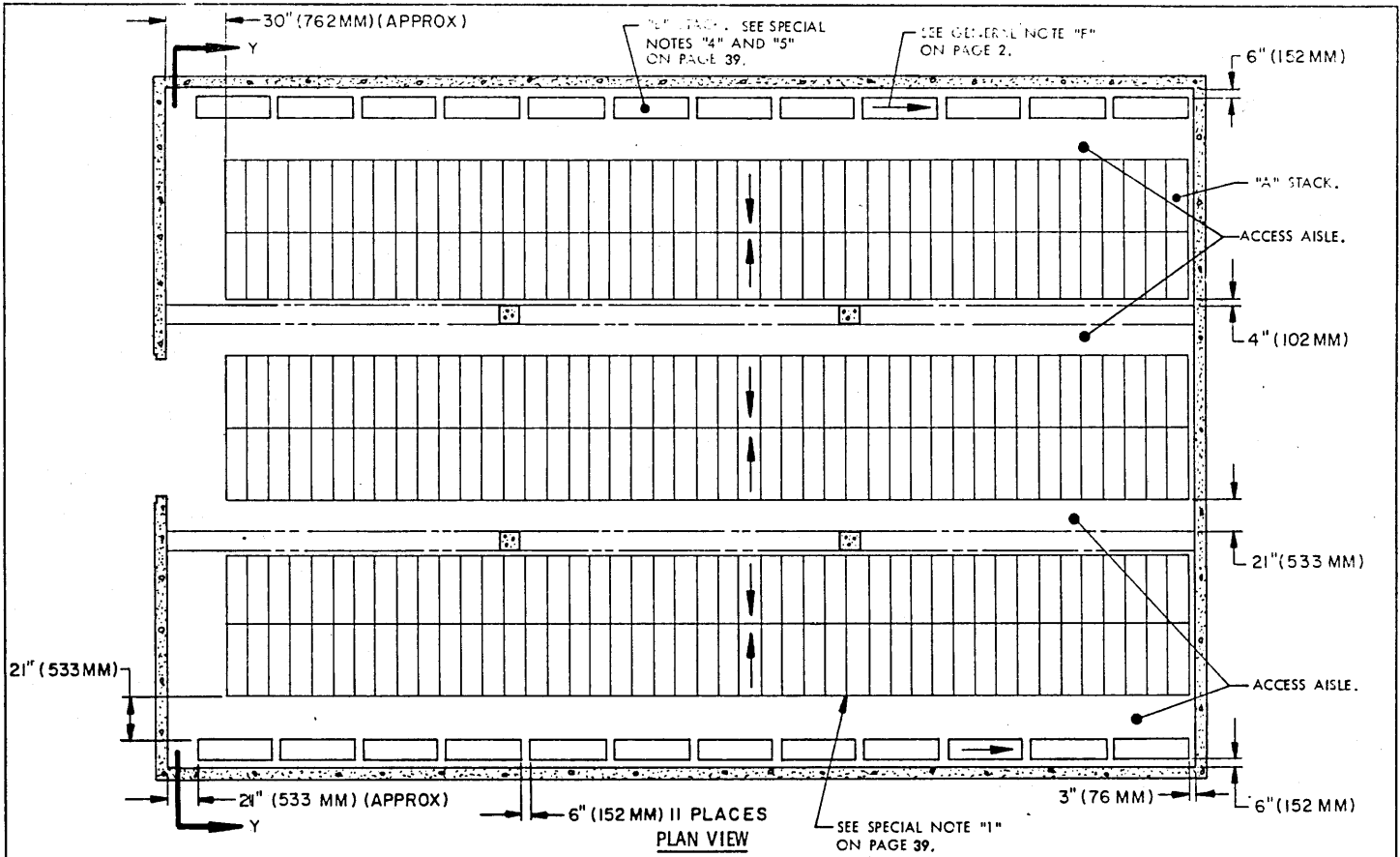
THE DETAIL ABOVE REPRESENTS AN UNPALLETIZED STACK AS VIEWED FROM THE SIDE OF A MAGAZINE. SEE NOTE "▲".

INTERMEDIATE DUNNAGE, 1" X 4" BY LENGTH TO SUIT (2 REQD EVERY THIRD LAYER). POSITION IN LINE WITH THE OUTWARD FLOOR DUNNAGE PIECES.

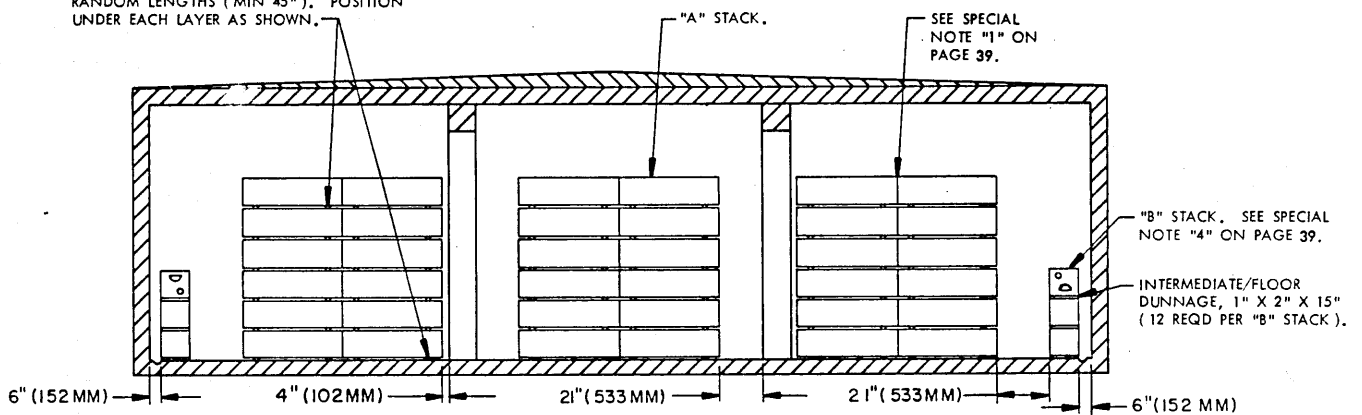


PLACEMENT OF DUNNAGE (UNIPAK)

THE DETAIL ABOVE REPRESENTS AN UNPALLETIZED STACK AS VIEWED FROM THE SIDE OF A MAGAZINE. SEE NOTE "▲" AT THE LEFT.



INTERMEDIATE/FLOOR DUNNAGE, 1" X 2" BY RANDOM LENGTHS (MIN 45"). POSITION UNDER EACH LAYER AS SHOWN.

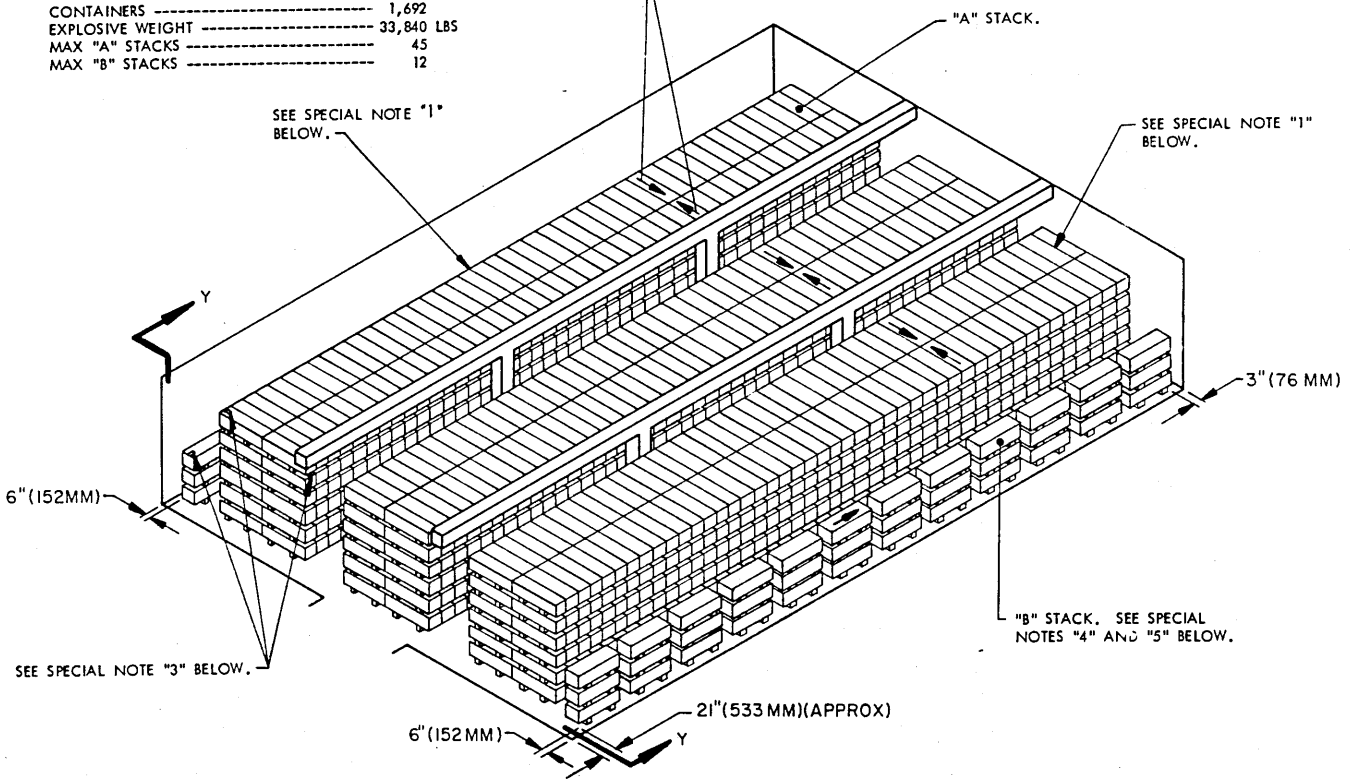


36 CONTAINERS PER "A" STACK.  
6 CONTAINERS PER "B" STACK.

**STORAGE AS SHOWN**

ITEM	QUANTITY
CONTAINERS -----	1,692
EXPLOSIVE WEIGHT -----	33,840 LBS
MAX "A" STACKS -----	45
MAX "B" STACKS -----	12

SEE GENERAL NOTE "F" ON PAGE 2.



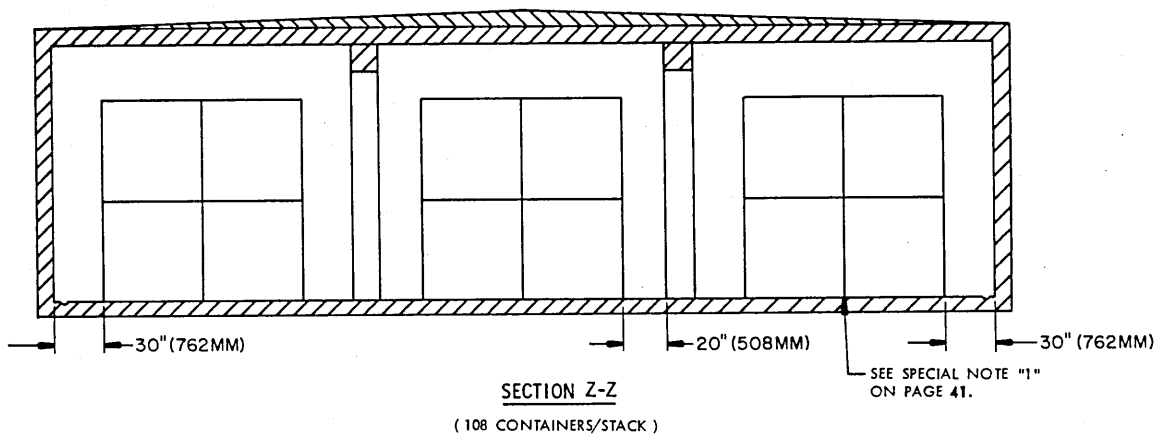
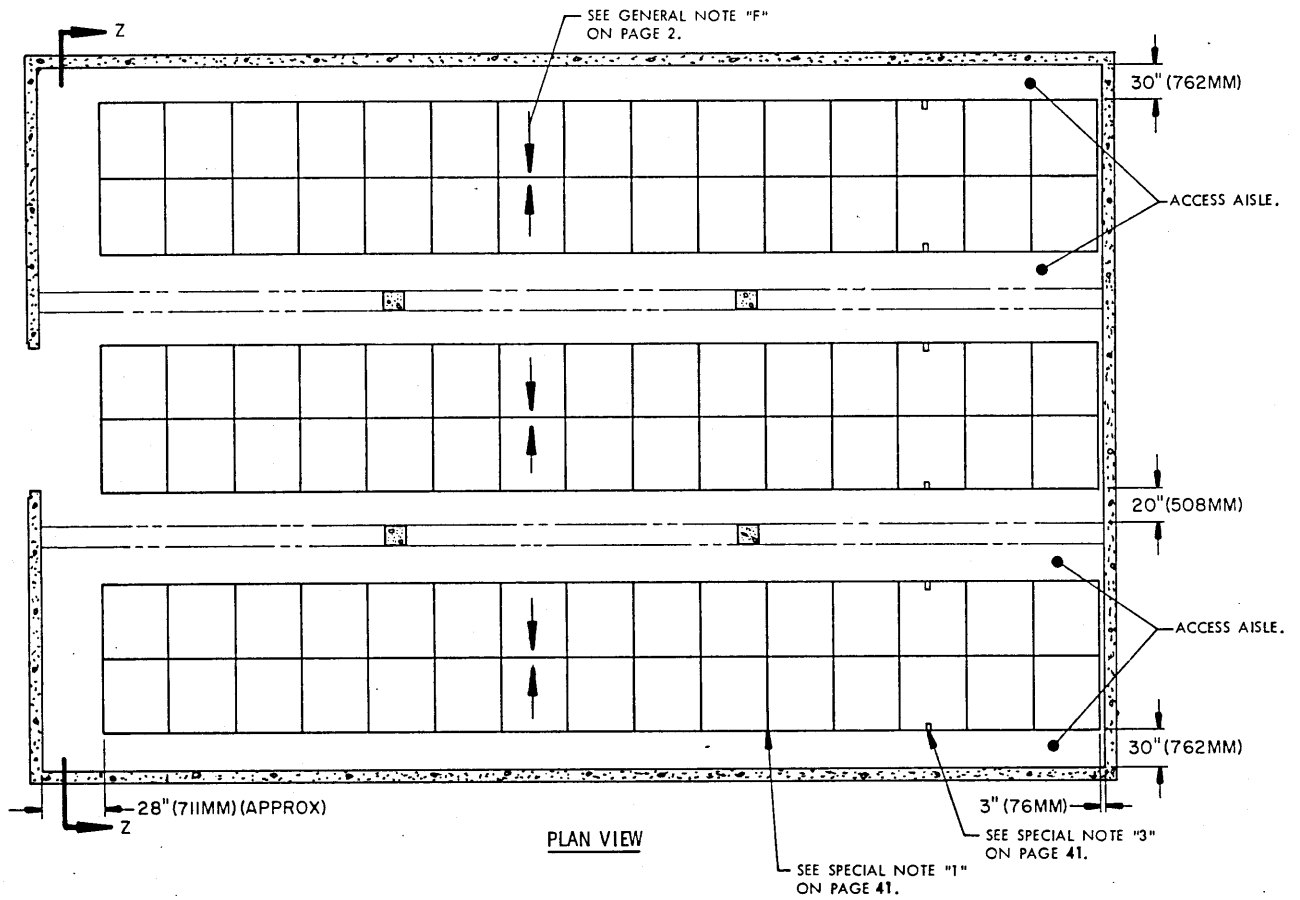
**ISOMETRIC VIEW**

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

BILL OF MATERIAL PER STACK			
STACK TYPE	LUMBER	LINEAR FEET	BOARD FEET
"A"	1" X 2"	90	15
"B"	1" X 2"	15	3

**SPECIAL NOTES:**

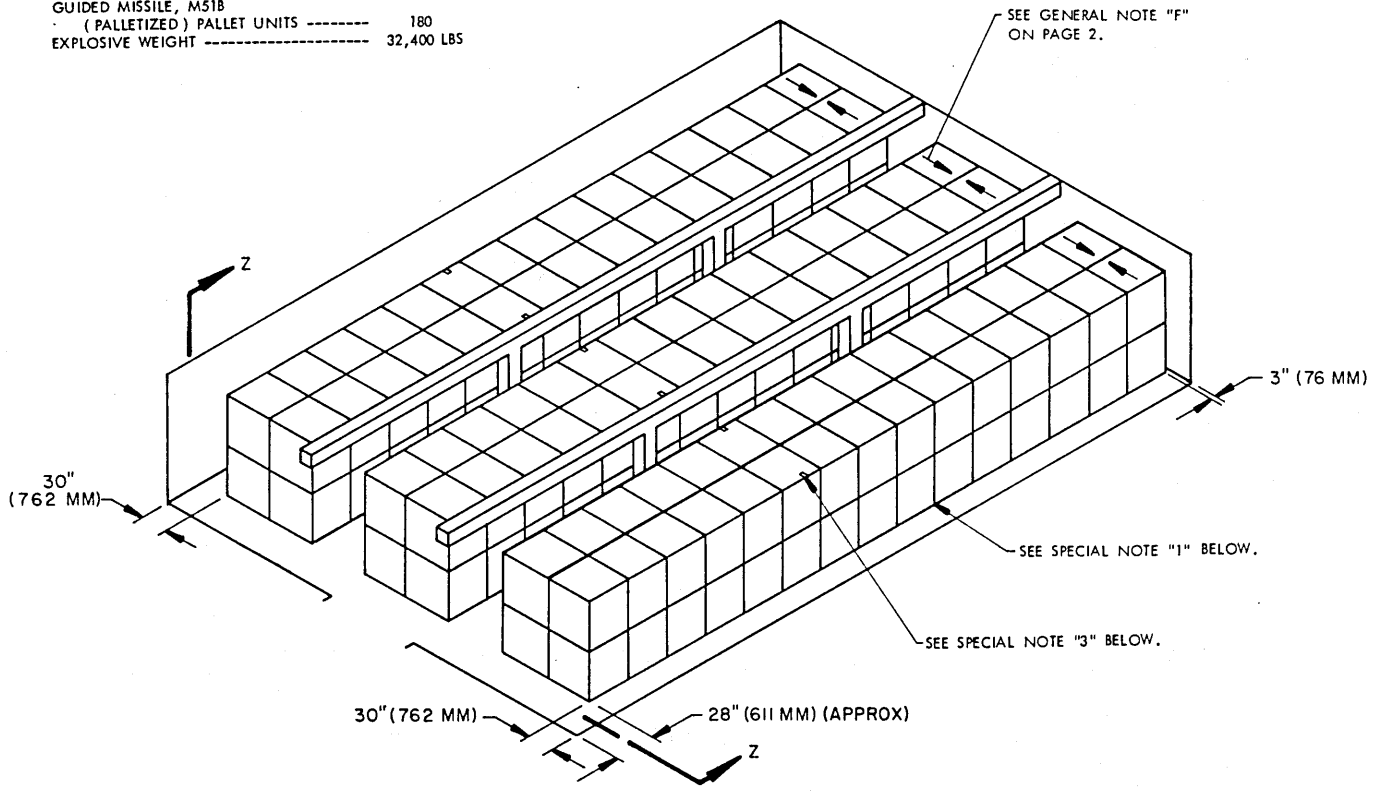
1. WHEN CALCULATING DIMENSIONS, A 1/2" ( 12.7MM ) SPACE WAS ALLOWED BETWEEN EACH CONTAINER TO PROMOTE EASE OF HANDLING BY MHE.
2. **CAUTION:** THIS ITEM IS IN A "PROPULSIVE STATE". SEE GENERAL NOTE "F" ON PAGE 2.
3. THE OPENING ENDS OF THE CONTAINERS MUST BE POSITIONED TO ALLOW INSPECTION OF THE HUMIDITY INDICATORS.
4. IN ORDER TO PROVIDE ACCESS TO THE HUMIDITY INDICATORS, CONTAINERS WITHIN THE "B" STACKS ADJACENT TO THE RIGHT SIDE OF THE MAGAZINE MUST BE STORED IN AN "UP-SIDE-DOWN" POSITION, AS SHOWN IN THE SECTION VIEW ON PAGE 38.
5. STORAGE OF THIS ITEM IS LIMITED TO SIX ( 6 ) LAYERS HIGH. HOWEVER, IN SINGLE STACK STORAGE, AS IN THE "B" STACKS, A MAXIMUM OF THREE ( 3 ) LAYERS IN HEIGHT IS REQUIRED.





STORAGE AS SHOWN

<u>ITEM</u>	<u>QUANTITY</u>
GUIDED MISSILE, M51B (PALLETIZED) PALLET UNITS -----	180
EXPLOSIVE WEIGHT -----	32,400 LBS

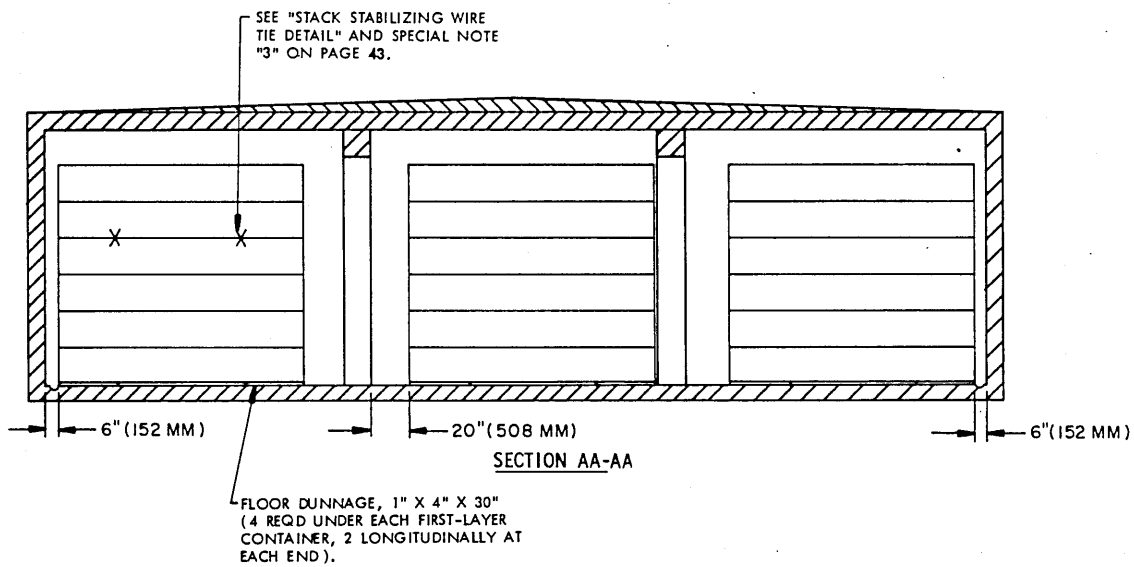
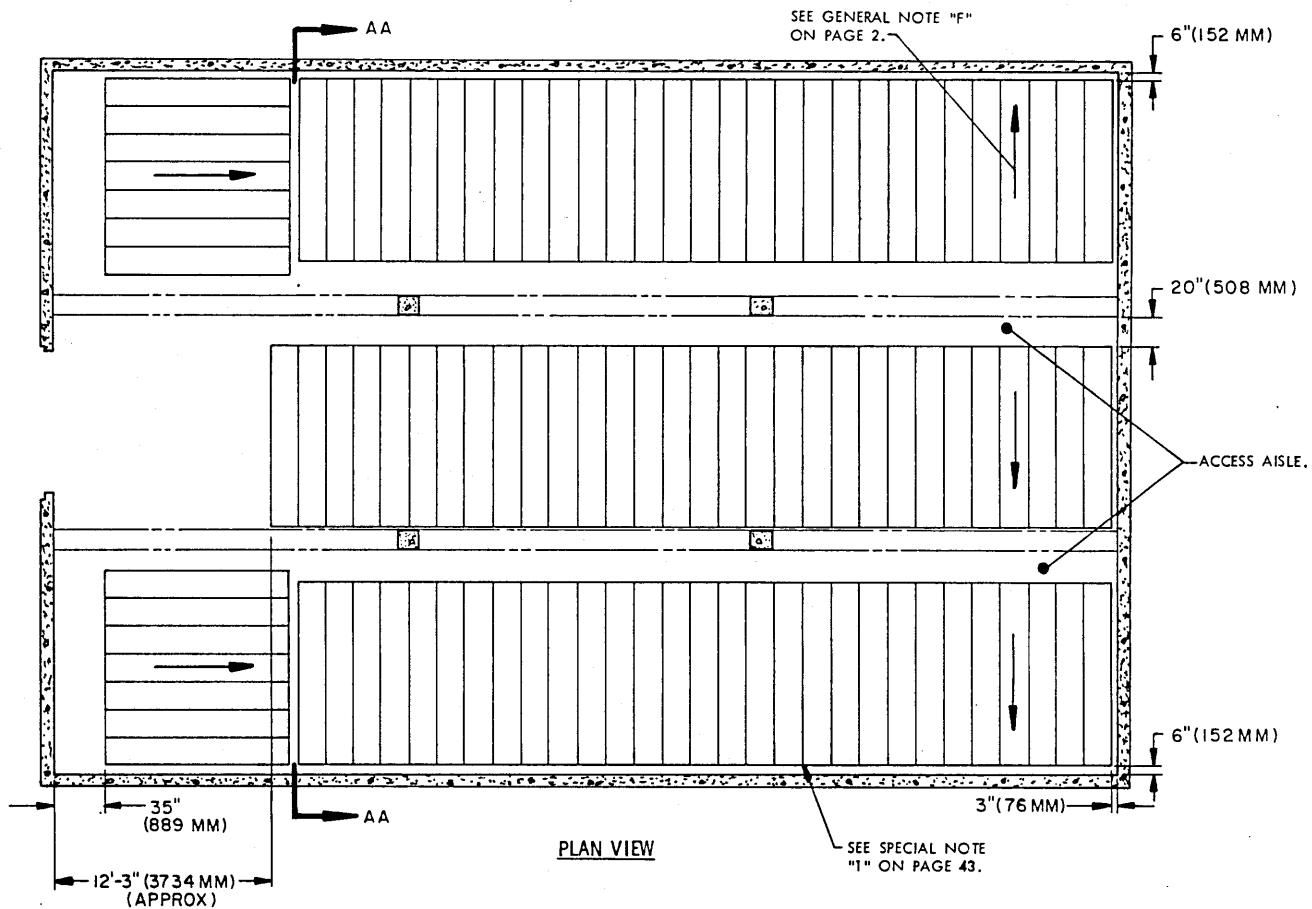


ISOMETRIC VIEW

FOR "GENERAL NOTES" SEE PAGE 2.

SPECIAL NOTES:

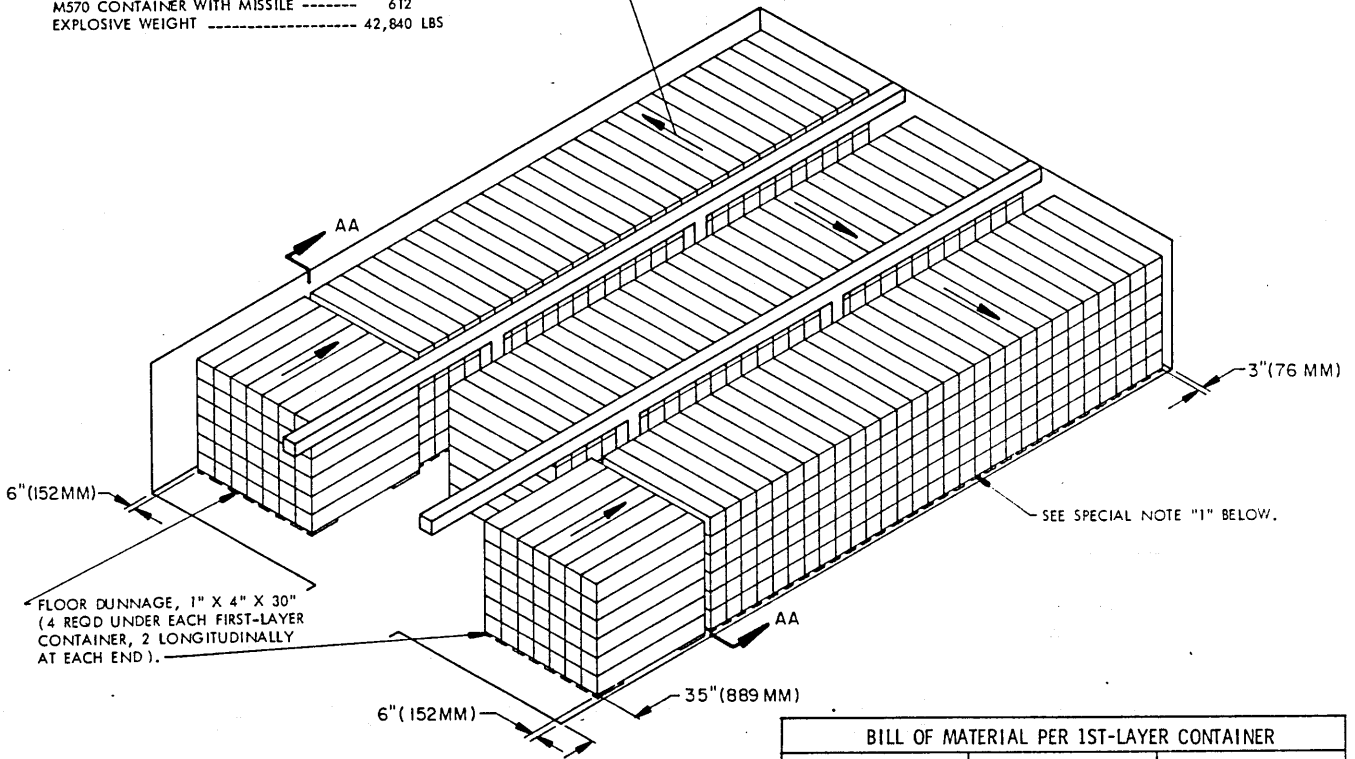
1. WHEN CALCULATING DIMENSIONS, A ONE INCH (1") (25.4MM) SPACE WAS ALLOWED BETWEEN EACH PALLET UNIT TO PROMOTE EASE OF HANDLING BY MHE.
2. **CUTION:** THIS ITEM IS IN A "PROPULSIVE STATE". SEE GENERAL NOTE "F" ON PAGE 2.
3. THE OPENING ENDS OF THE CONTAINERS MUST BE POSITIONED TO ALLOW INSPECTION OF THE HUMIDITY INDICATORS.
4. STACKING OF THIS ITEM IS LIMITED TO TWO (2) PALLET UNITS HIGH.



**STORAGE AS SHOWN**

ITEM	QUANTITY
M570 CONTAINER WITH MISSILE -----	612
EXPLOSIVE WEIGHT -----	42,840 LBS

SEE GENERAL NOTE "F" ON PAGE 2.



**ISOMETRIC VIEW**

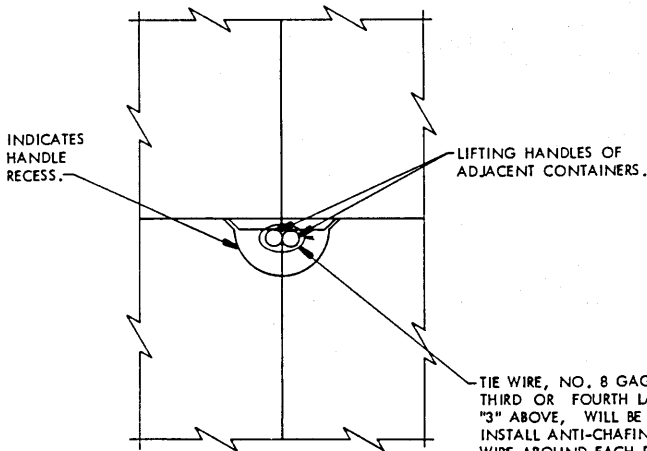
BILL OF MATERIAL PER 1ST-LAYER CONTAINER		
LUMBER	QUANTITY	LINEAR FEET
1" X 4" X 30"	4	10

**NOTE ▲**: IF NO. 8 GAGE WIRE IS NOT READILY AVAILABLE, OTHER SIZES OF WIRE TIES, IF OF EQUAL STRENGTH, MAY BE SUBSTITUTED; SUCH AS, TWO (2) LOOPS OF NO. 14 GAGE WIRE FOR ONE (1) LOOP OF NO. 8 GAGE WIRE WHICH IS SPECIFIED.

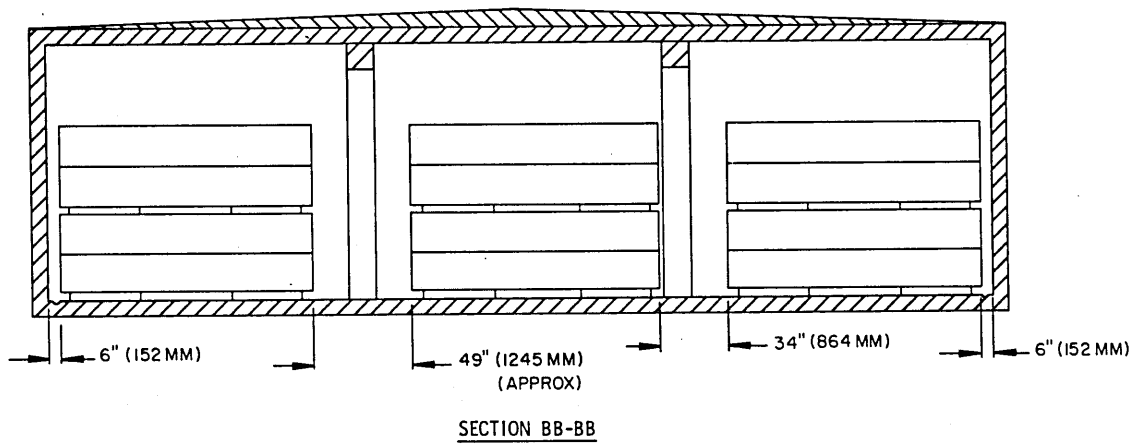
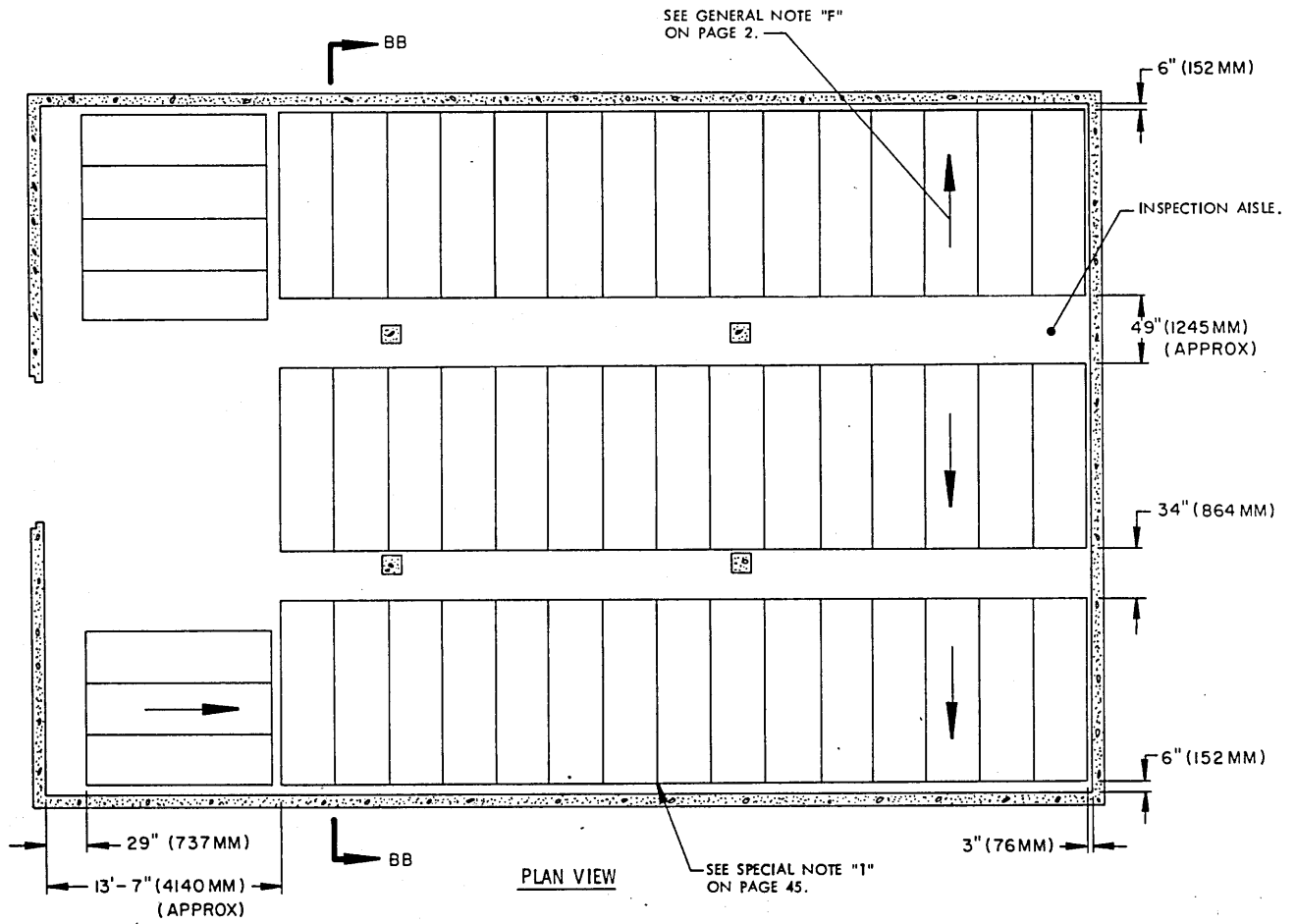
**FOR "GENERAL NOTES" AND "MATERIAL SPECIFICATIONS" SEE PAGE 2.**

**SPECIAL NOTES:**

1. WHEN CALCULATING DIMENSIONS, A ONE INCH (1") (25.4MM) SPACE WAS ALLOWED BETWEEN EACH CONTAINER TO PROMOTE EASE OF HANDLING BY MHE.
2. **CAUTION:** THIS ITEM IS IN A "PROPULSIVE STATE". SEE GENERAL NOTE "F" ON PAGE 2.
3. **CAUTION:** A SINGLE STACK WILL NOT BE STACKED MORE THAN THREE (3) OR FOUR (4) CONTAINERS HIGH WITHOUT BEING WIRE-TIED TO AN ADJACENT STACK AS SPECIFIED IN THE "SECTION AA-AA" VIEW. THE THIRD LAYER IN A FOUR-HIGH CONTAINER STACK OR THE FOURTH LAYER IN A FIVE OR SIX-HIGH CONTAINER STACK WILL BE WIRE-TIED AS DETAILED IN THE "STACK STABILIZING WIRE TIE DETAIL" AT THE LEFT. POSITION ANTI-CHAFING MATERIAL OR TAPE BETWEEN THE TIE WIRE AND THE LIFTING HANDLES. SEE "NOTE ▲" AT THE LEFT.
4. **NOTE:** INSPECTION AISLES NOT LESS THAN 20" WIDE MUST BE MAINTAINED AT THE AFT END OF EACH STORED CONTAINER.

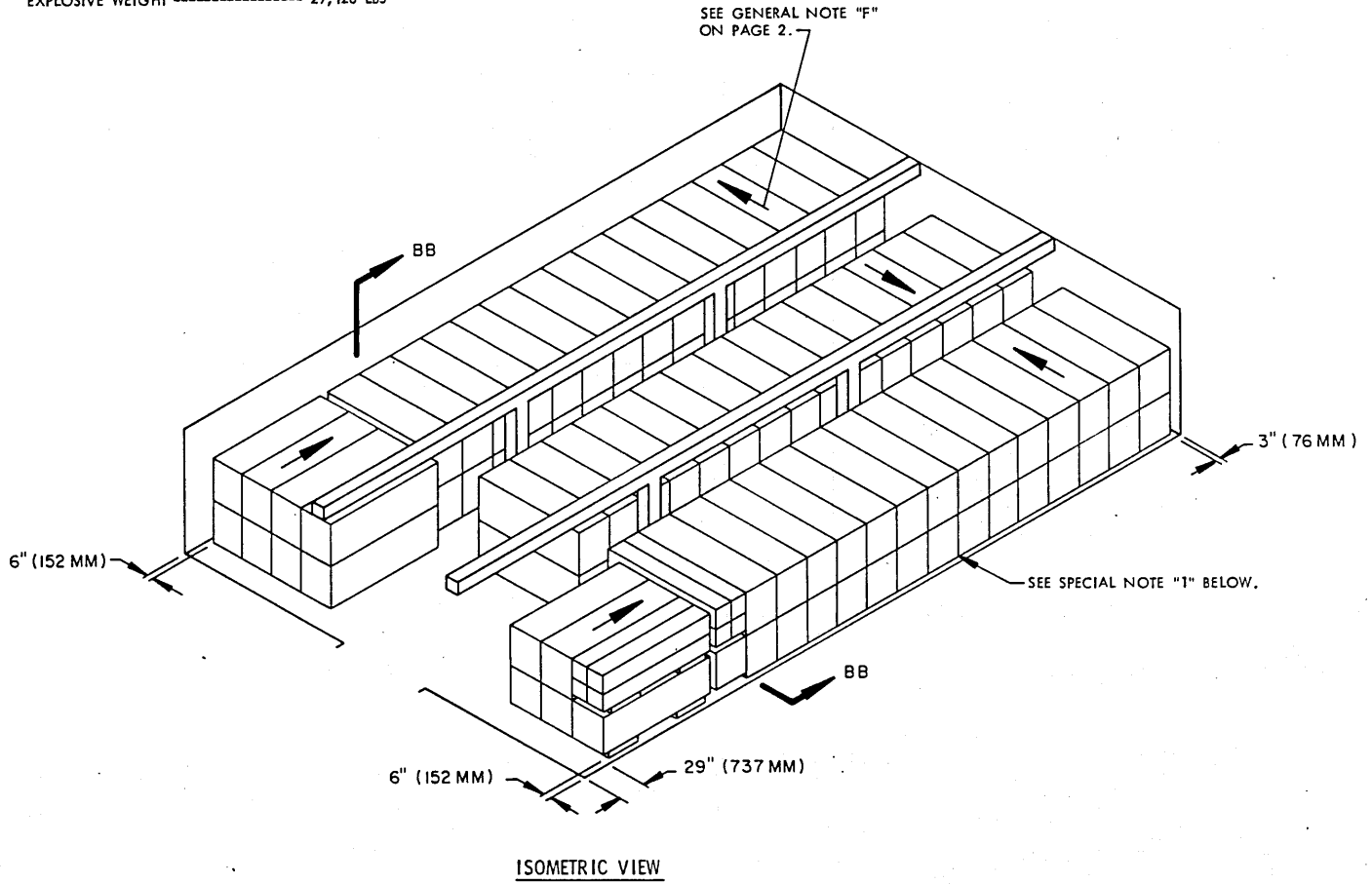


**STACK STABILIZING WIRE TIE DETAIL**



**STORAGE AS SHOWN**

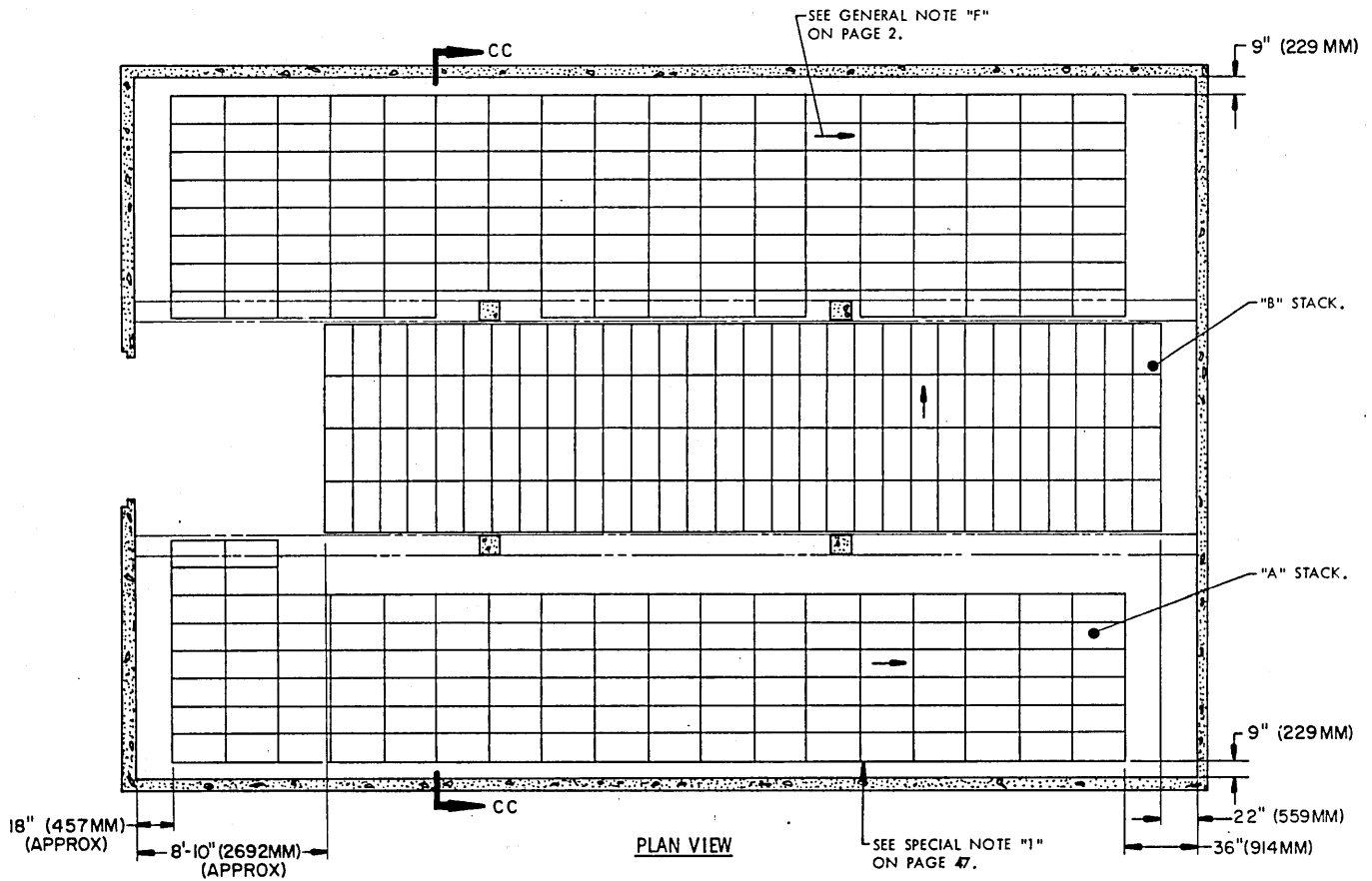
ITEM	QUANTITY
PALLET UNIT -----	104
M570 CONTAINER -----	416
EXPLOSIVE WEIGHT -----	29,120 LBS



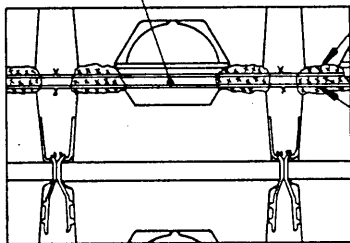
**SPECIAL NOTES:**

1. WHEN CALCULATING DIMENSIONS, A ONE INCH (1") (25.4MM) SPACE WAS ALLOWED BETWEEN EACH PALLET UNIT TO PROMOTE EASE OF HANDLING BY MHE.
2. **CAUTION:** THIS ITEM IS IN A "PROPULSIVE STATE". SEE GENERAL NOTE "F" ON PAGE 2.
3. **NOTE:** INSPECTION AISLES NOT LESS THAN 20" WIDE MUST BE MAINTAINED AT THE AFT END OF EACH STORED CONTAINER.

FOR "GENERAL NOTES" SEE PAGE 2.

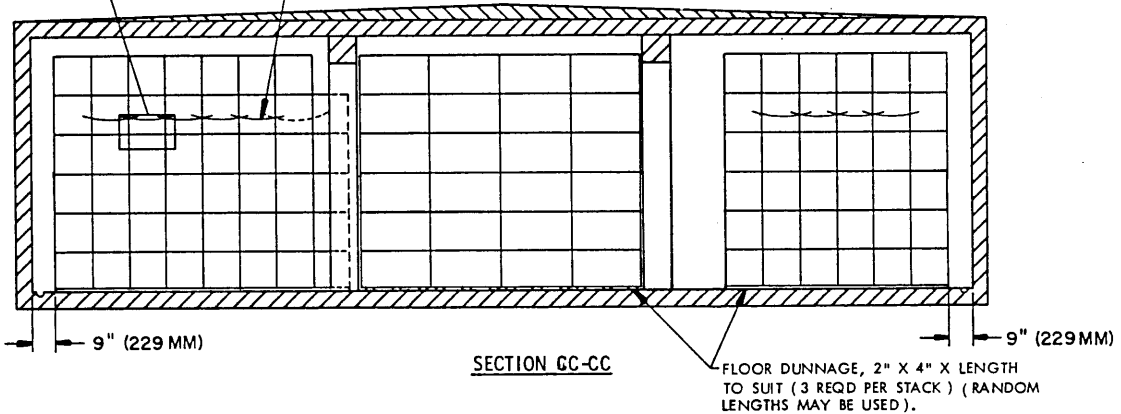


INDICATES HANDLE ON CONTAINER.



INDICATES ANTI-CHAFING MATERIAL OF SUITABLE MATERIAL SUCH AS BURLAP. POSITION AS REQUIRED TO PREVENT DIRECT CONTACT BETWEEN THE CONTAINERS AND THE STACK STABILIZING WIRE TIES.

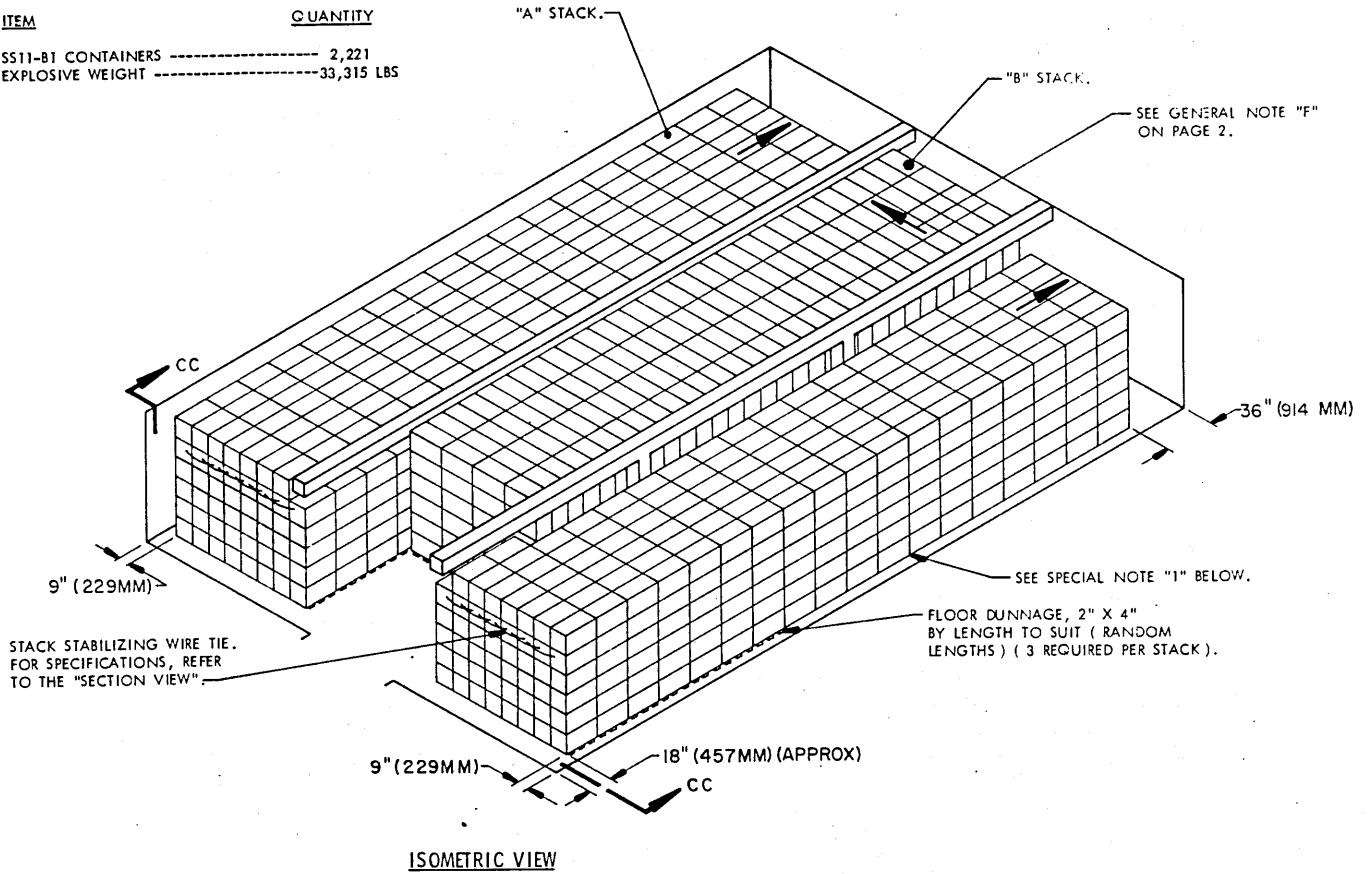
STACK STABILIZING WIRE TIE ( 10 REQD PER "A" STACK AND 4 REQD PER "B" STACK ). INSTALL AS SHOWN AND TO FORM A COMPLETE LOOP. TWIST ENDS OF WIRE TOGETHER TO SECURE. SEE SPECIAL NOTE "3" ON PAGE 47 AND "NOTE 1" BELOW.



NOTE 1: THE STRAND OF AN INSTALLED TIE-WIRE WILL PASS BEHIND THE HANDLE ON ONE CONTAINER, RUN COMPLETELY ACROSS THE END OF THE ADJACENT CONTAINER, PASS BEHIND THE HANDLE ON THE THIRD CONTAINER, AND RUN BACK ACROSS THE END OF THE SECOND CONTAINER. THE TWISTED WIRE JOINT SHOULD BE MADE IN FRONT OF A VOID BETWEEN CONTAINERS.

**STORAGE AS SHOWN**

ITEM	QUANTITY
SS11-B1 CONTAINERS	2,221
EXPLOSIVE WEIGHT	33,315 LBS



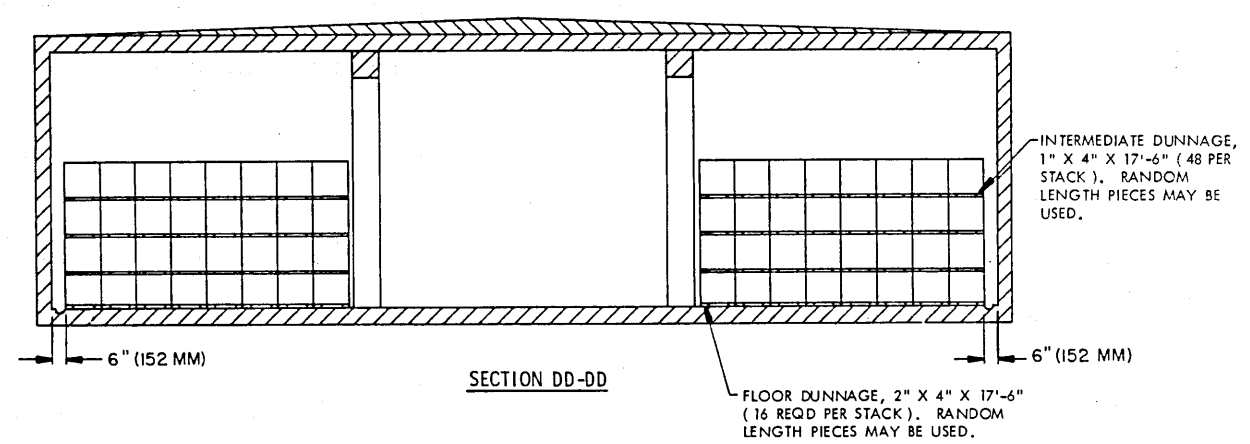
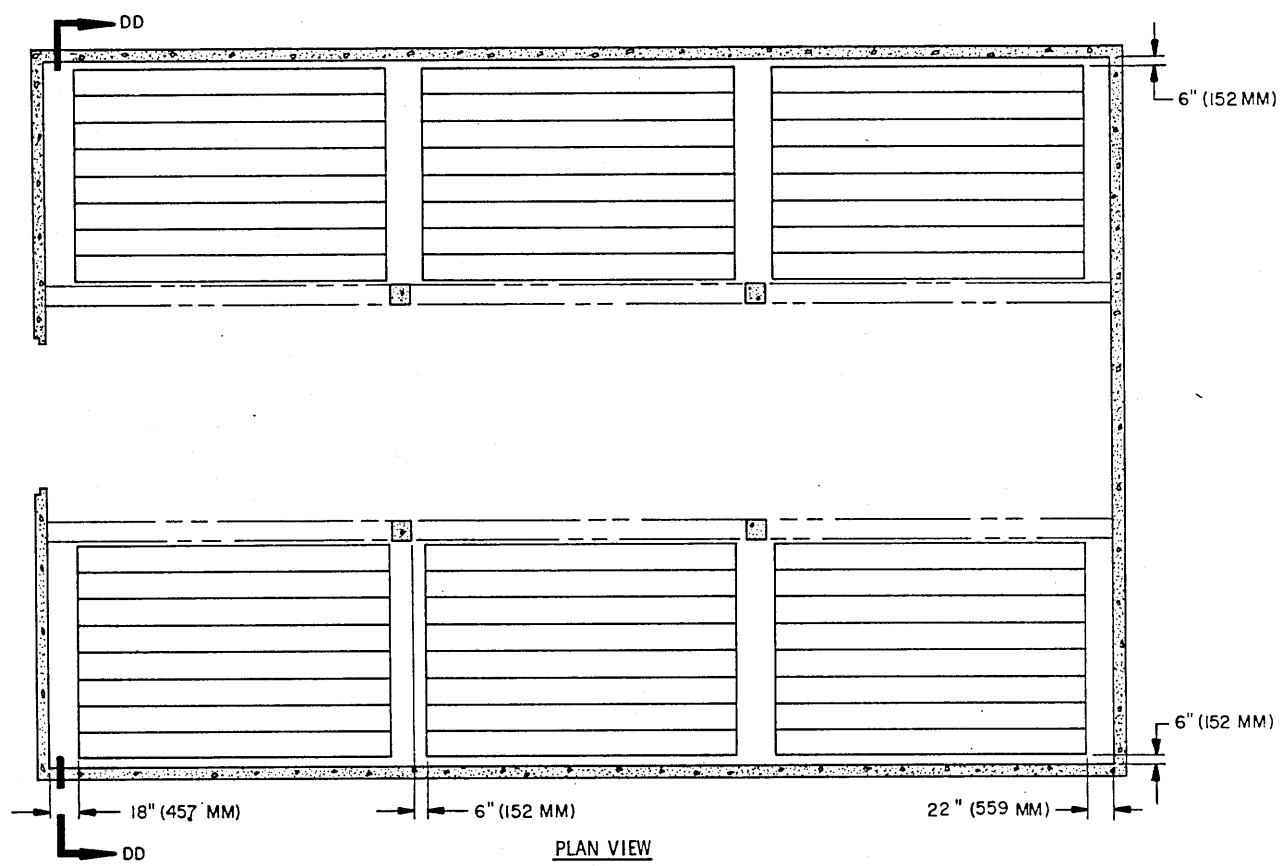
**ISOMETRIC VIEW**

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

BILL OF MATERIAL PER STACK			
STACK TYPE	LUMBER	LINEAR FEET	BOARD FEET
"A"	2" X 4"	39	26
"B"	2" X 4"	19	13

**SPECIAL NOTES:**

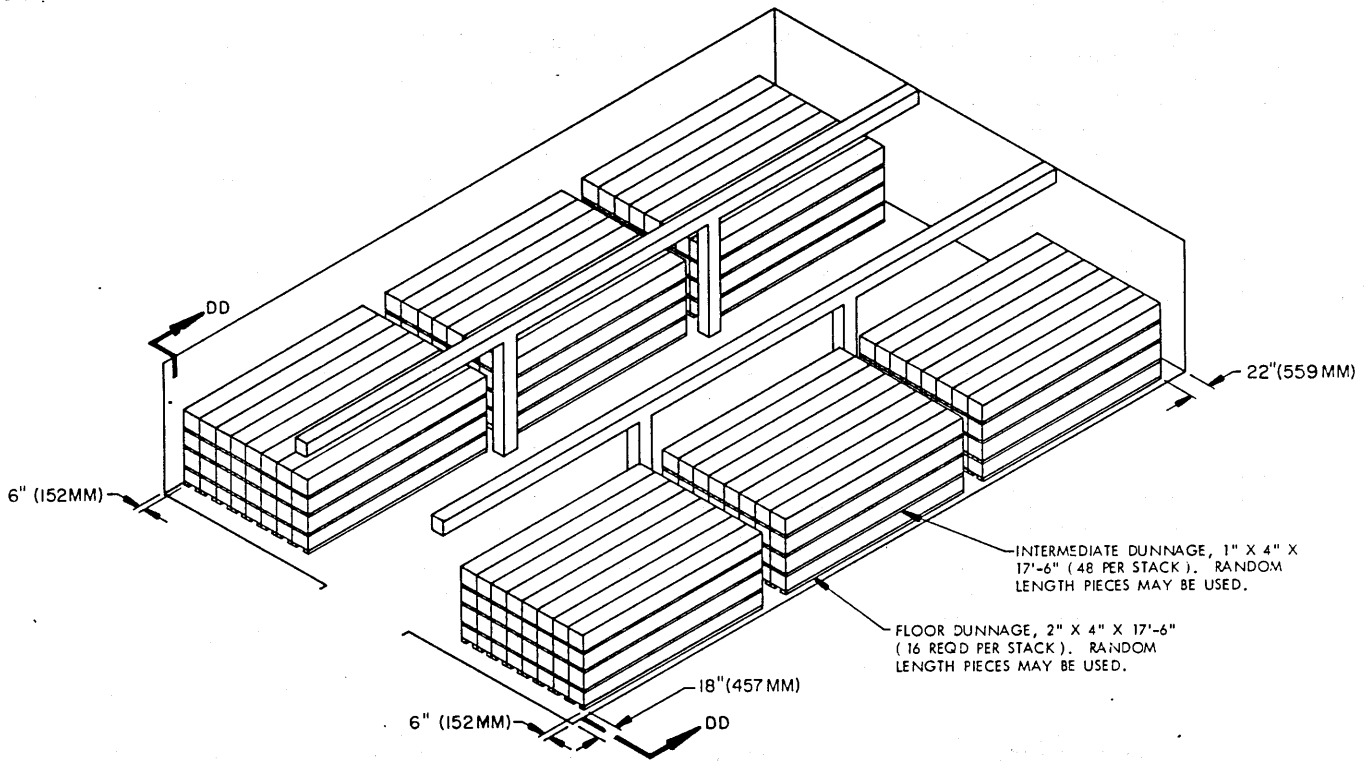
1. WHEN CALCULATING DIMENSIONS, A ONE INCH (1") (25.4MM) SPACE WAS ALLOWED BETWEEN EACH CONTAINER TO PROMOTE EASE OF HANDLING BY MHE.
2. **CAUTION:** THIS ITEM IS IN A "PROPULSIVE STATE". SEE GENERAL NOTE "F" ON PAGE 2.
3. IF THE CONTAINERS ARE STACKED SIX (6) HIGH, "WIRE TYING" MUST BE ACCOMPLISHED AS SHOWN TO STABILIZE THE STACKS; IF STACKED ONLY FIVE (5) OR LESS CONTAINERS IN HEIGHT, "WIRE TYING" IS NOT REQUIRED.





STORAGE AS SHOWN

ITEM QUANTITY  
 BATS ----- 192



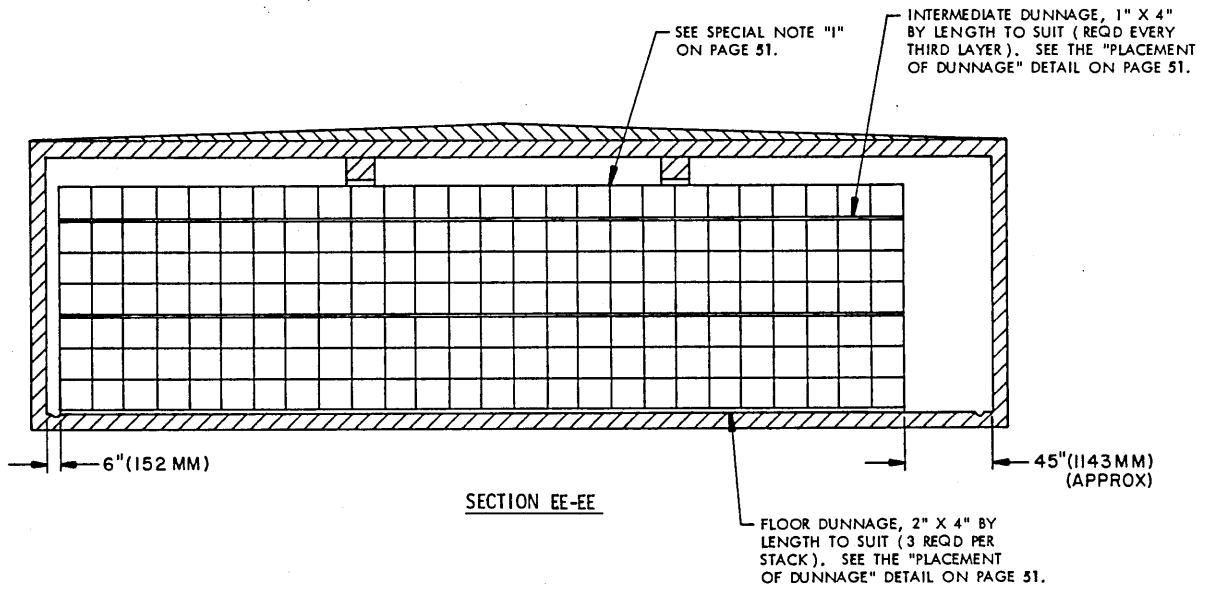
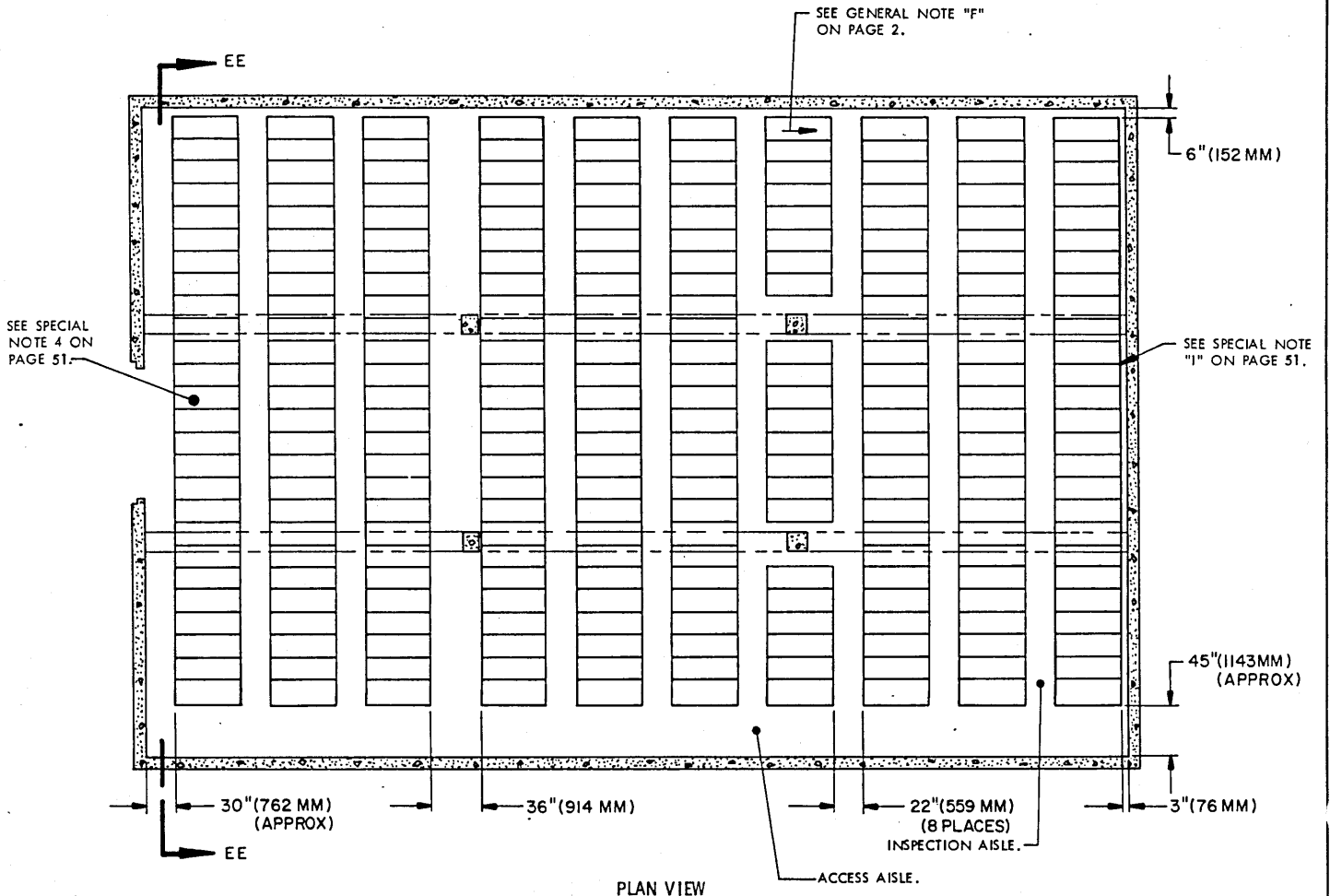
ISOMETRIC VIEW

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

BILL OF MATERIAL PER STACK		
LUMBER	LINEAR FEET	BOARD FEET
1" X 4"	840	280
2" X 4"	280	187

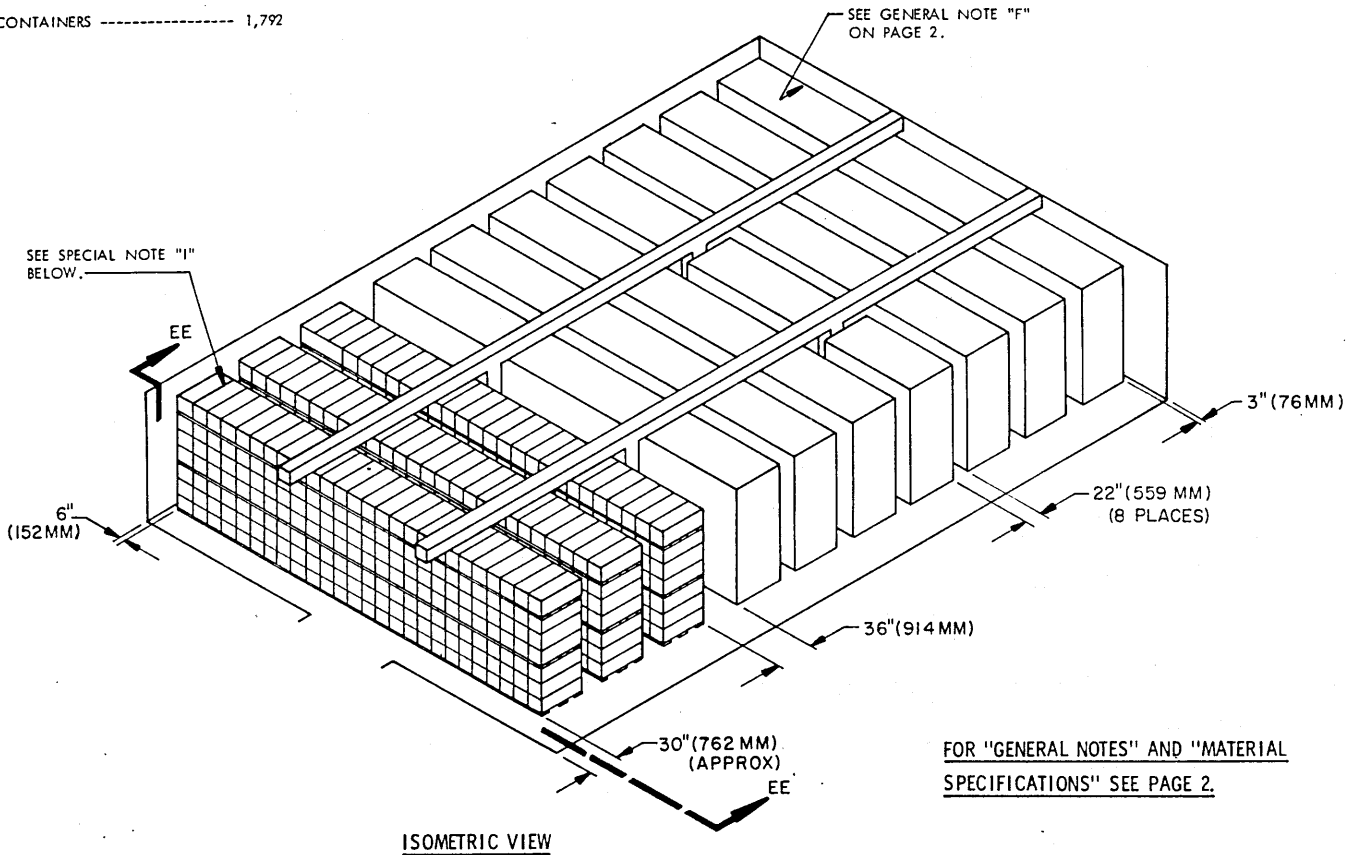
SPECIAL NOTE:

1. THIS ITEM IS PACKAGED IN A HEAVY FIBERBOARD CONTAINER, THEREFORE SUFFICIENT PERSONNEL SHALL BE USED TO INSURE SAFE HANDLING DURING STORAGE OPERATIONS. IF SUITABLE MHE IS AVAILABE, IT MAY BE USED TO TRANSPORT THE UNITS WITHIN THE MAGAZINE.
2. STORAGE OF THIS ITEM IS LIMITED TO FOUR (4) LAYERS HIGH.



**STORAGE AS SHOWN**

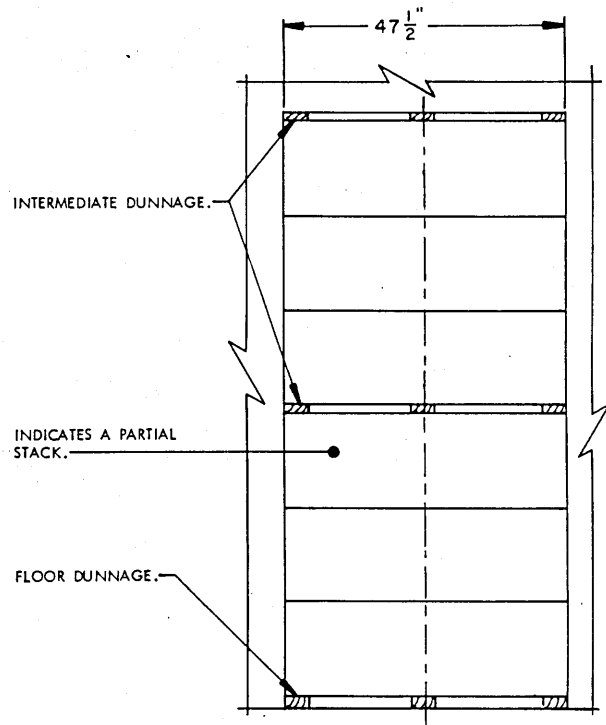
ITEM	QUANTITY
CONTAINERS -----	1,792



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

**SPECIAL NOTES:**

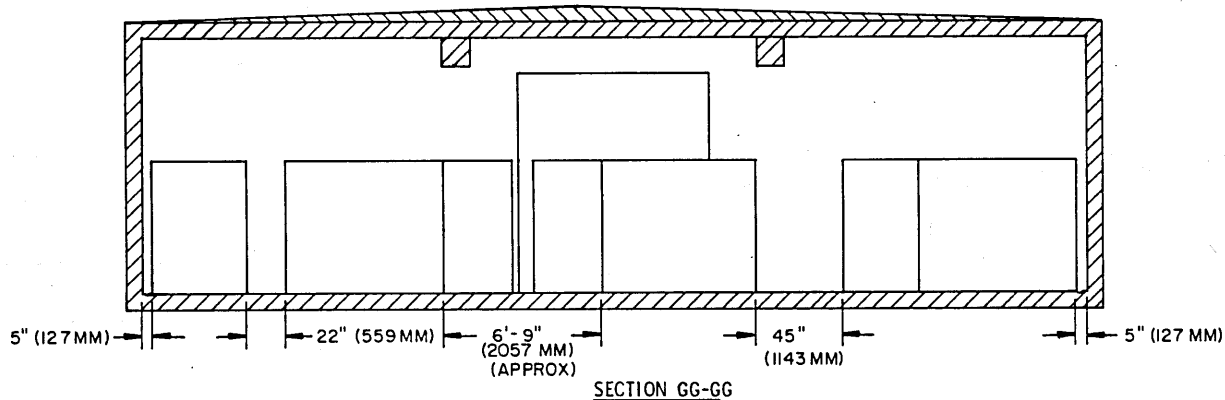
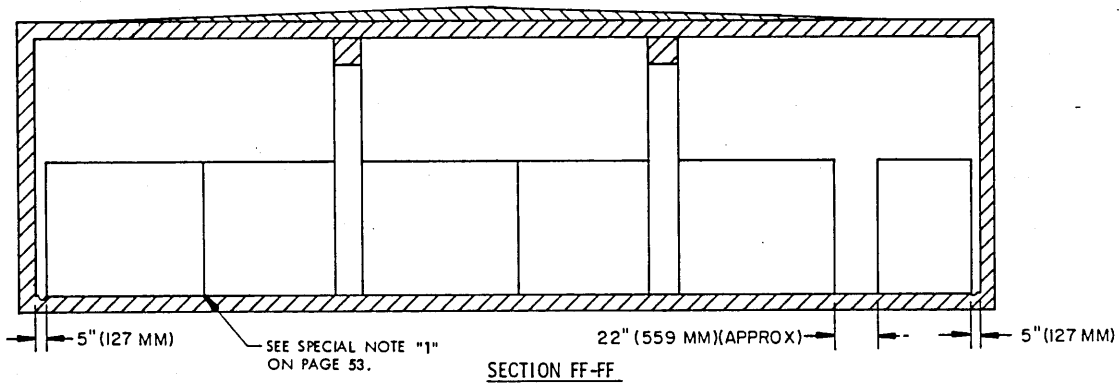
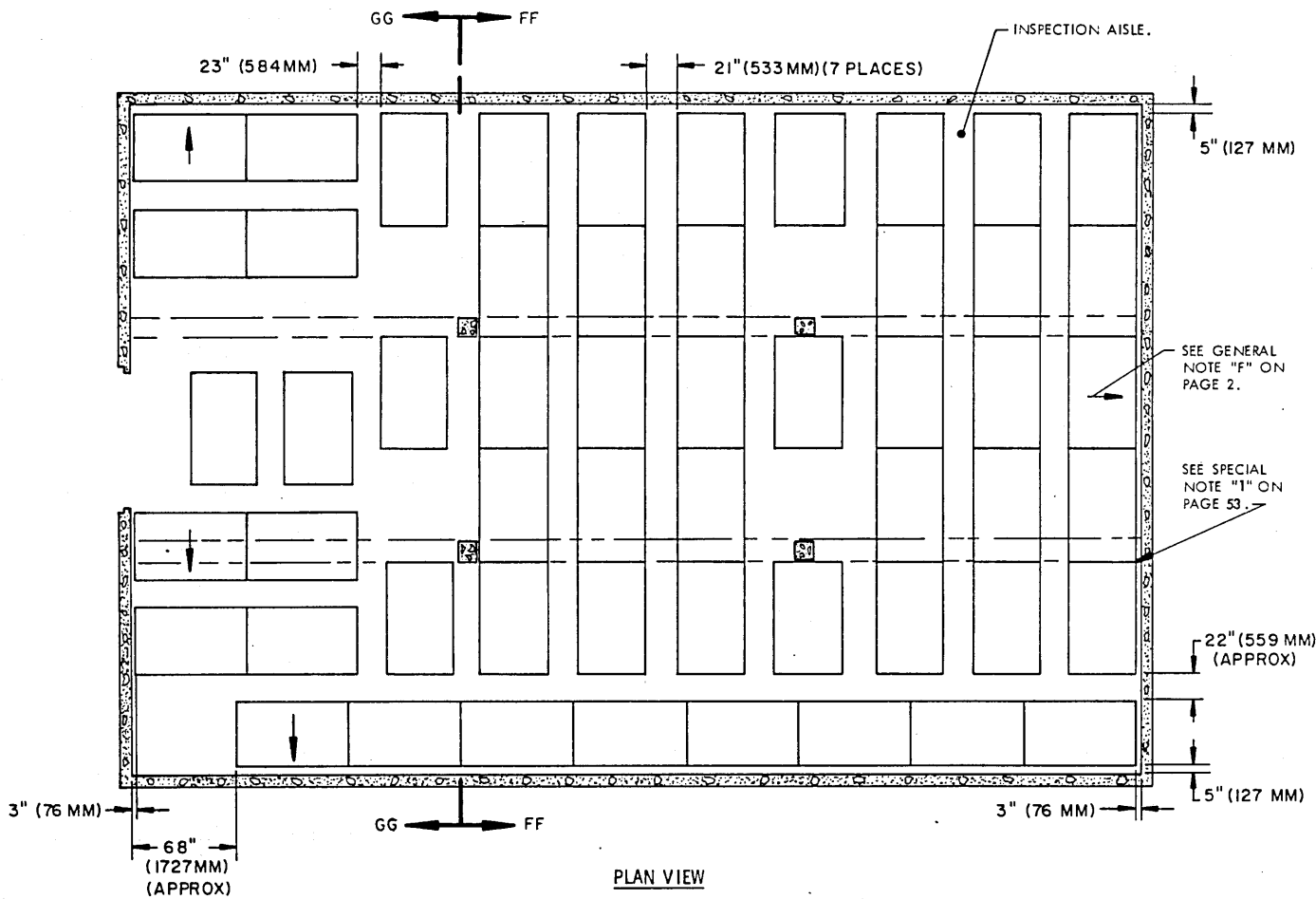
1. WHEN CALCULATING DIMENSIONS, A ONE INCH (1") (25.4MM) SPACE WAS ALLOWED BETWEEN EACH CONTAINER TO PROMOTE EASE OF HANDLING BY MHE.
2. CAUTION: THIS ITEM IS IN A "PROPULSIVE STATE". SEE GENERAL NOTE "F" ON PAGE 2.
3. CONTAINERS MUST BE POSITIONED SO AS TO ALLOW ACCESS TO THE HUMIDITY INDICATORS AND SERIAL NUMBERS.
4. IF DESIRED, CONTAINERS IN THE IMMEDIATE DOORWAY AREA OF THE FORWARDMOST STACK MAY BE OMITTED.



**PLACEMENT OF DUNNAGE**

NOTE: THE JOINT OF INTERMEDIATE DUNNAGE OR FLOOR DUNNAGE SHOULD BE STAGGERED A MINIMUM OF 36" (914MM) HORIZONTALLY AND VERTICALLY WITHIN A STACK.

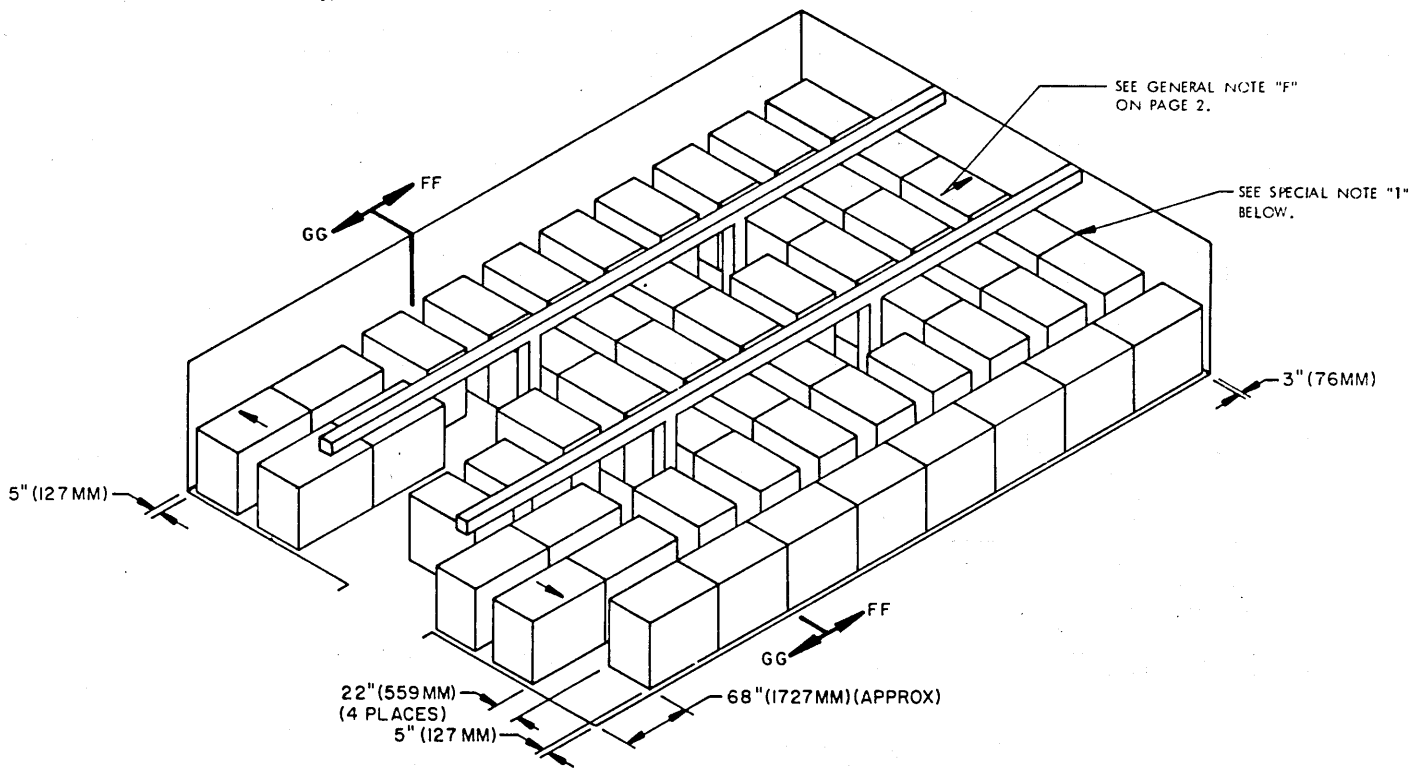
BILL OF MATERIAL PER STACK		
LUMBER	LINEAR FEET	BOARD FEET
1" X 4"	210	70
2" X 4"	105	70



**DRAGON ( PALLETIZED )**

STORAGE AS SHOWN

ITEM                      QUANTITY  
PALLET UNIT ----- 54

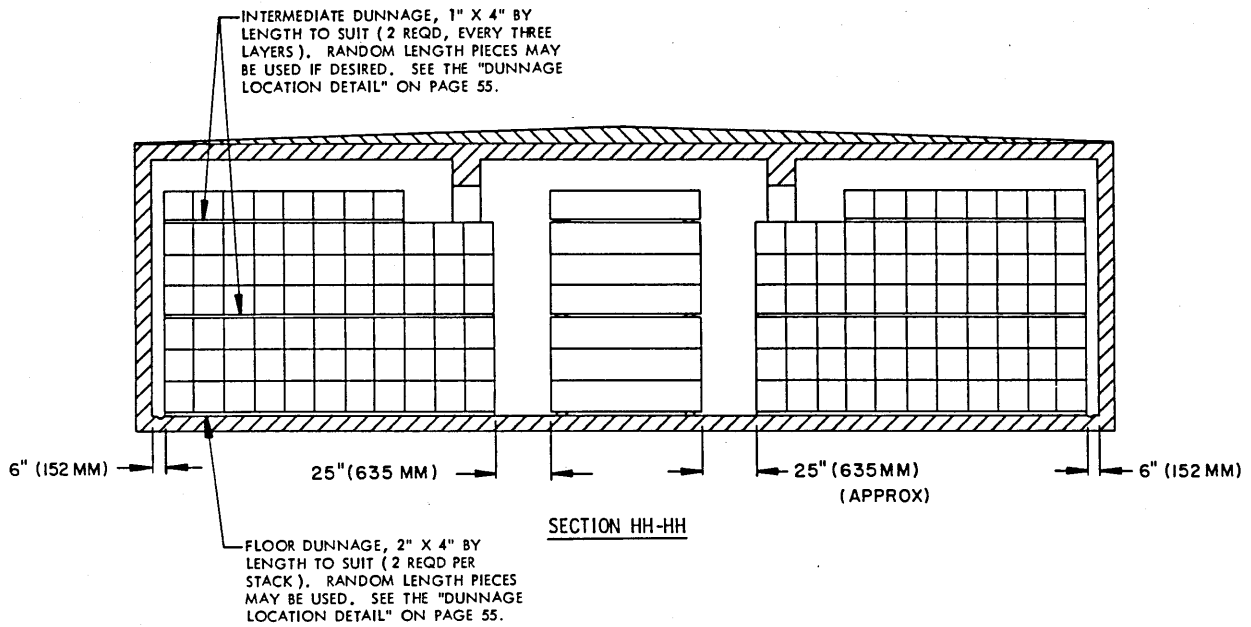
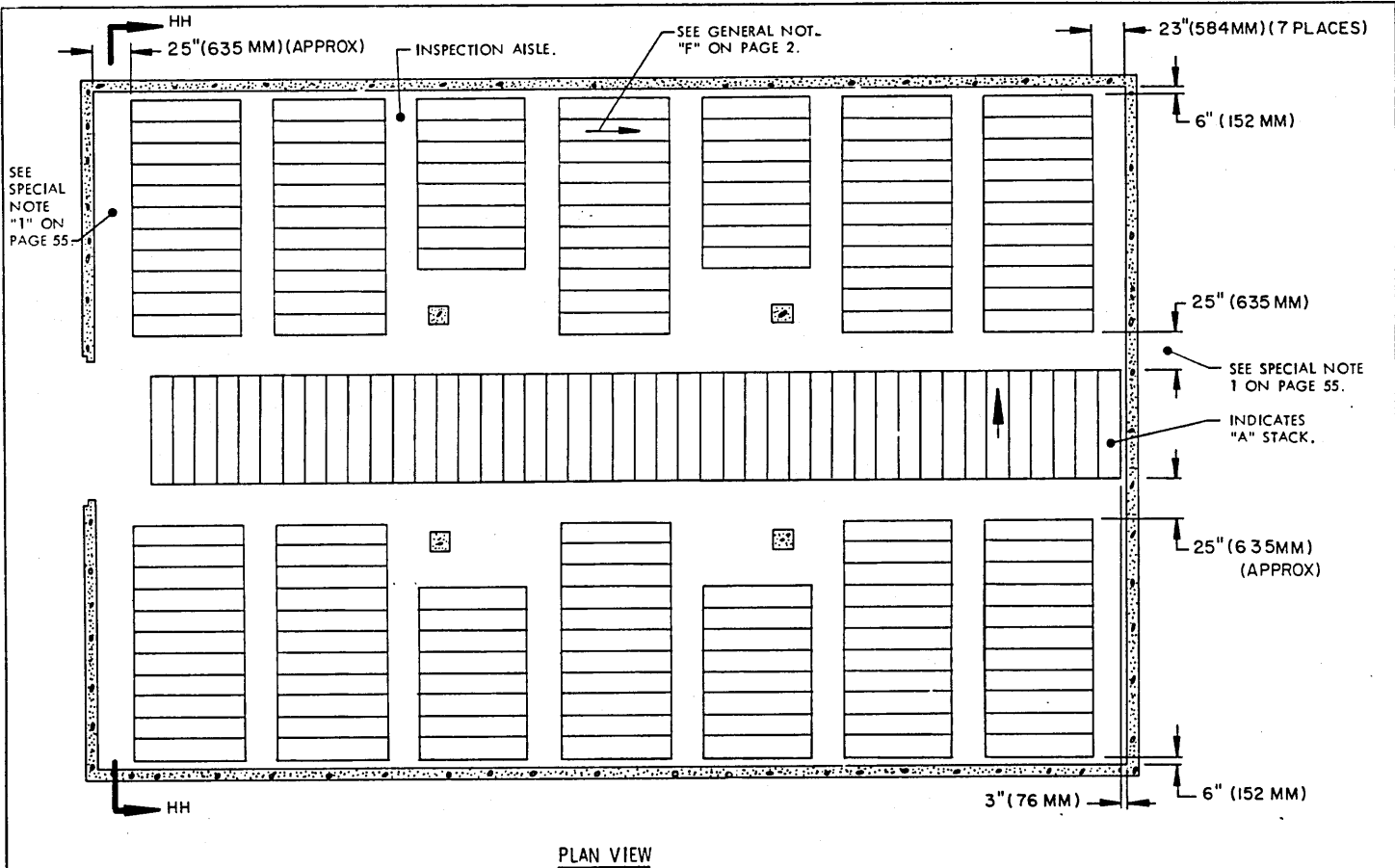


ISOMETRIC VIEW

FOR "GENERAL NOTES" SEE PAGE 2.

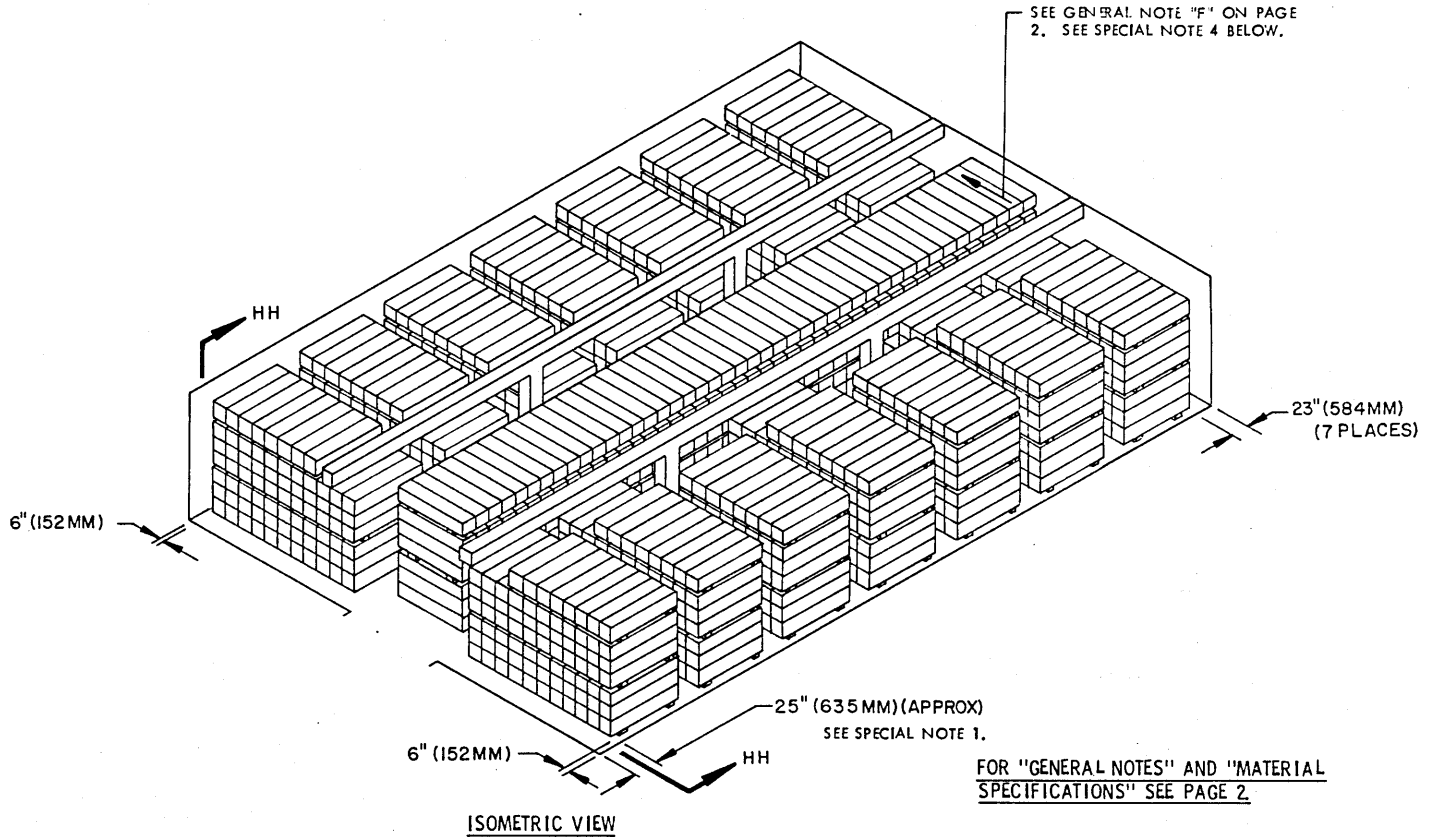
SPECIAL NOTES:

1. WHEN CALCULATING DIMENSIONS, A ONE INCH (1") (25.4MM) SPACE WAS ALLOWED BETWEEN EACH PALLET UNIT TO PROMOTE EASE OF HANDLING BY MHE.
2. CAUTION: THIS ITEM IS IN A "PROPULSIVE STATE". SEE GENERAL NOTE "F" ON PAGE 2.
3. PALLET UNITS MUST BE POSITIONED SO AS TO ALLOW ACCESS TO THE HUMIDITY INDICATORS AND SERIAL NUMBERS.



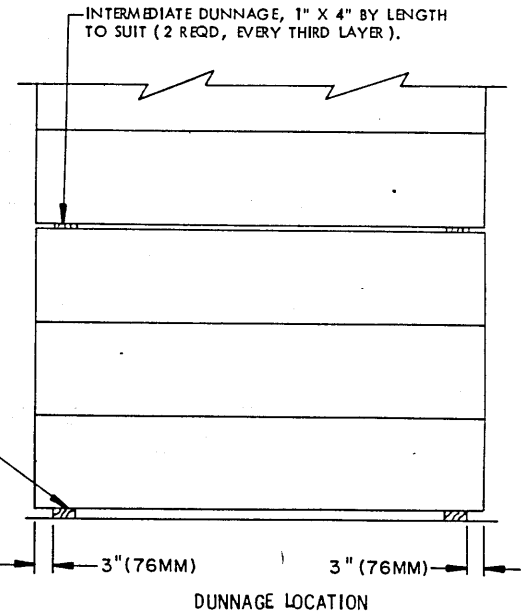
**STORAGE AS SHOWN**

ITEM QUANTITY  
CONTAINERS ----- 1,272



**SPECIAL NOTES:**

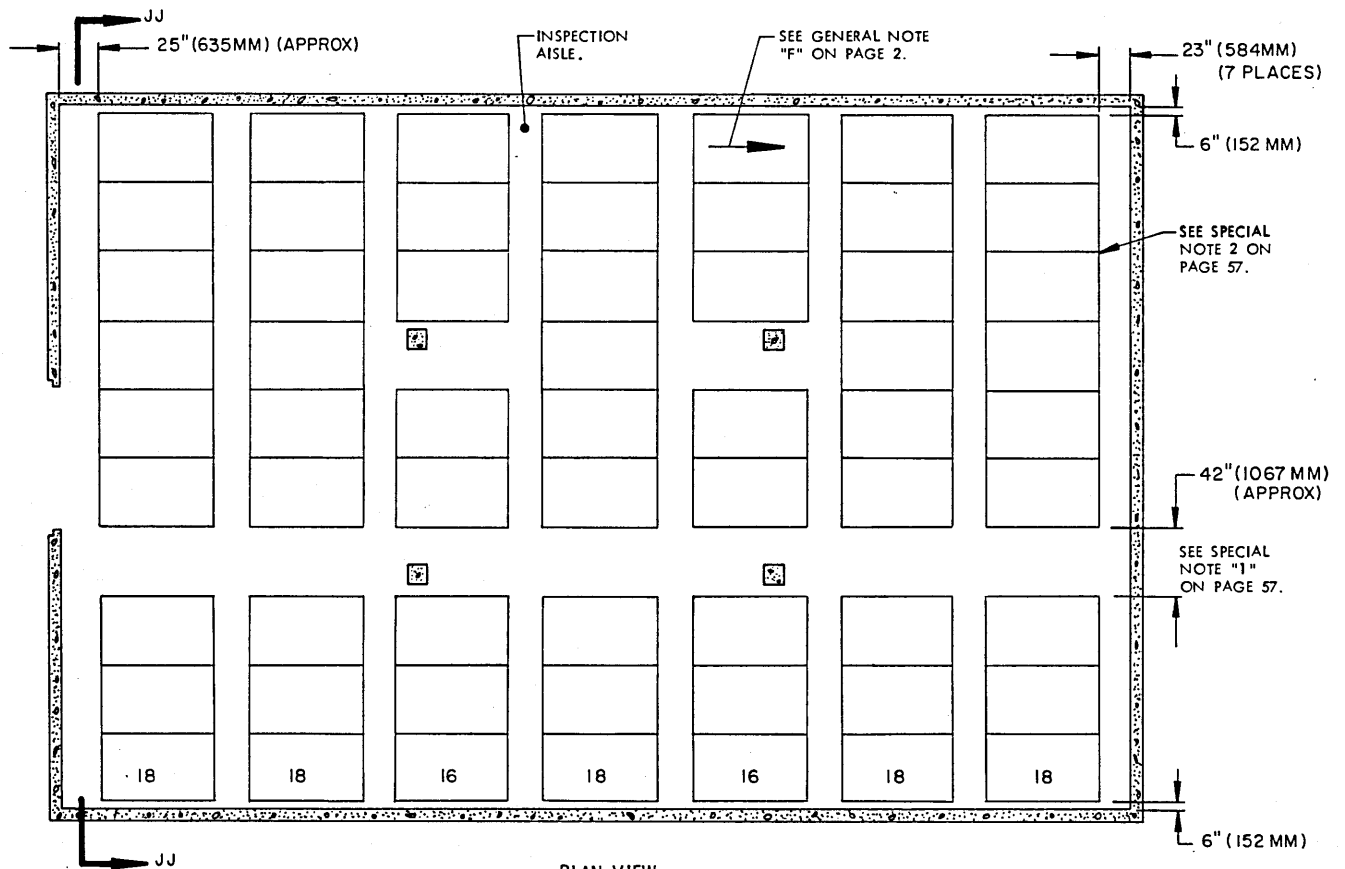
1. THE STORAGE PROCEDURES SHOWN DEPICT THE UNSEALED CONTAINER. THE SAME PROCEDURES WILL BE USED TO STORE SEALED CONTAINERS, HOWEVER, THE AISLE DIMENSIONS WILL BE ADJUSTED AS APPLICABLE.
2. **CAUTION:** THIS ITEM IS IN A "PROPULSIVE STATE". SEE GENERAL NOTE "F" ON PAGE 2.
3. CONTAINERS ARE POSITIONED SO AS TO ALLOW ACCESS TO THE SERIAL NUMBER.
4. IF DESIRED, CONTAINERS IN THE CENTER AREA OF THE BUNKER MAY BE OMITTED.



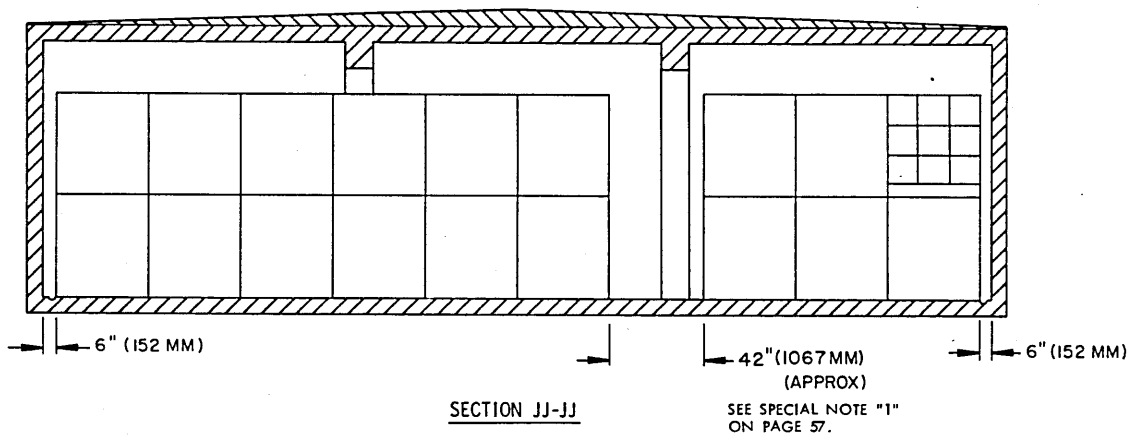
**BILL OF MATERIAL PER CONTAINER**

LUMBER	LINEAR FEET	BOARD FEET
* 1" X 4"	2.54	.85
** 2" X 4"	2.54	1.69

- \* ONLY REQUIRED FOR EVERY THREE LAYERS OF CONTAINERS.
- \*\* ONLY REQUIRED UNDER FIRST LAYER CONTAINERS.



PLAN VIEW

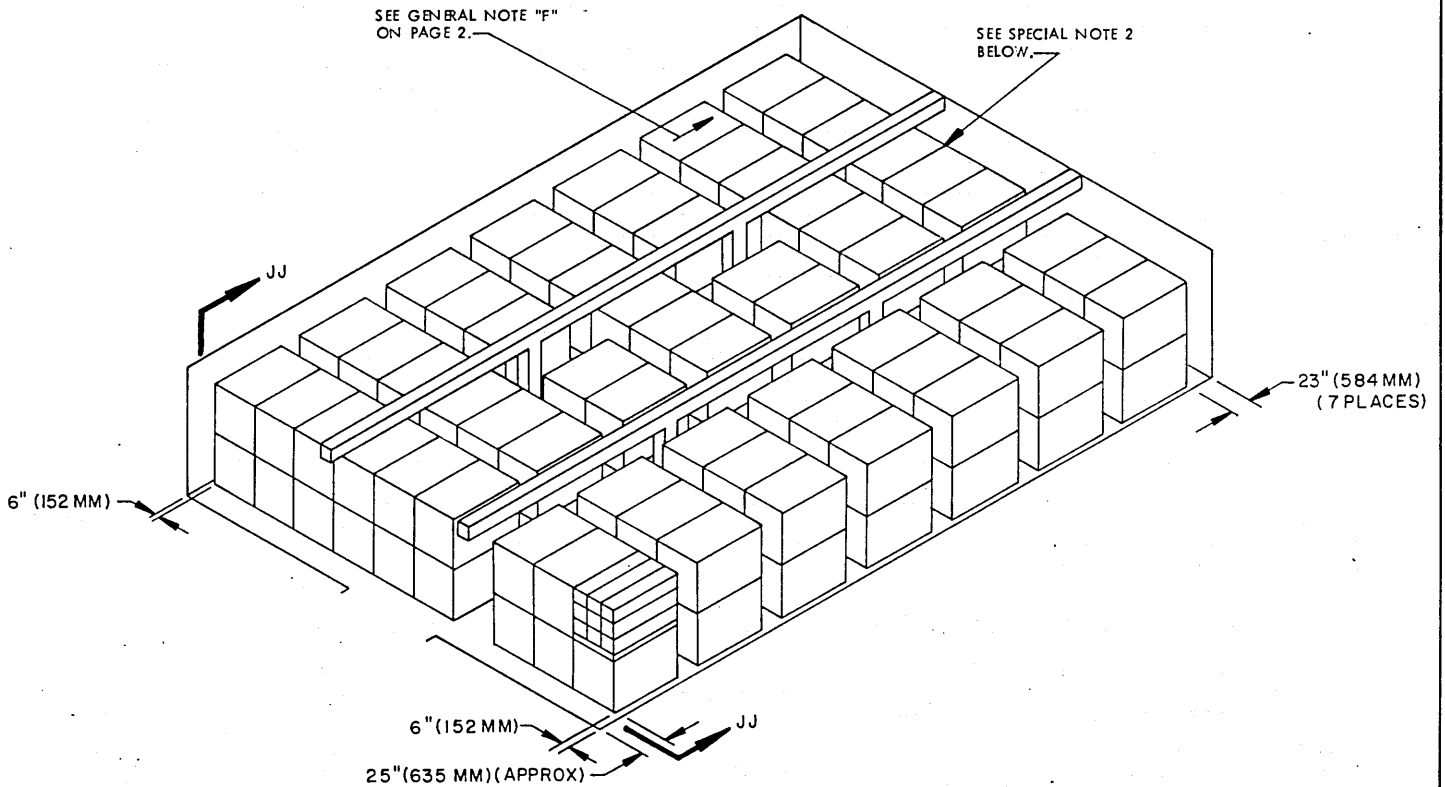




STORAGE AS SHOWN

ITEM                      QUANTITY

PALLET UNIT ----- 122

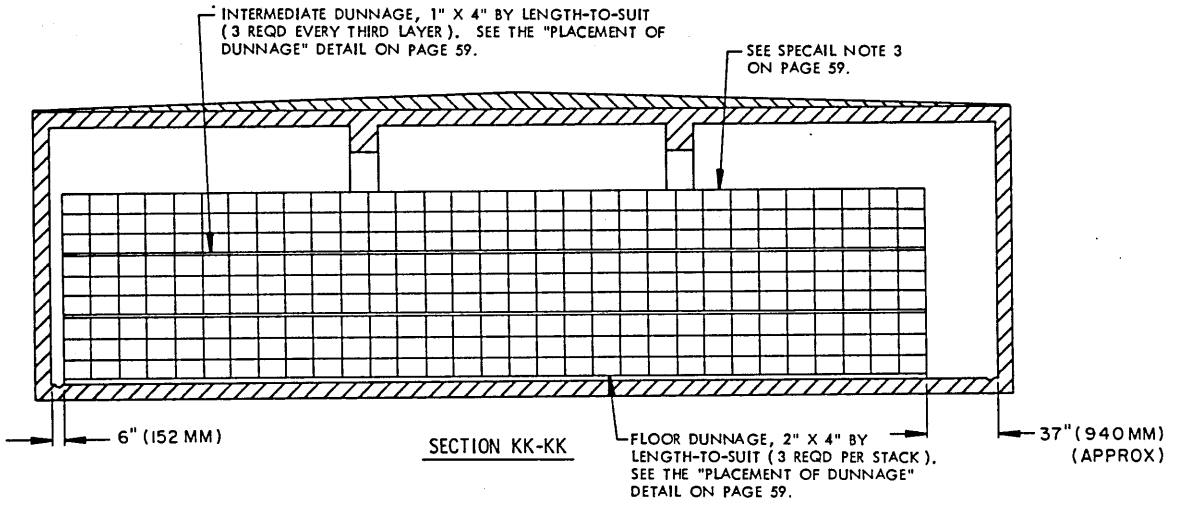
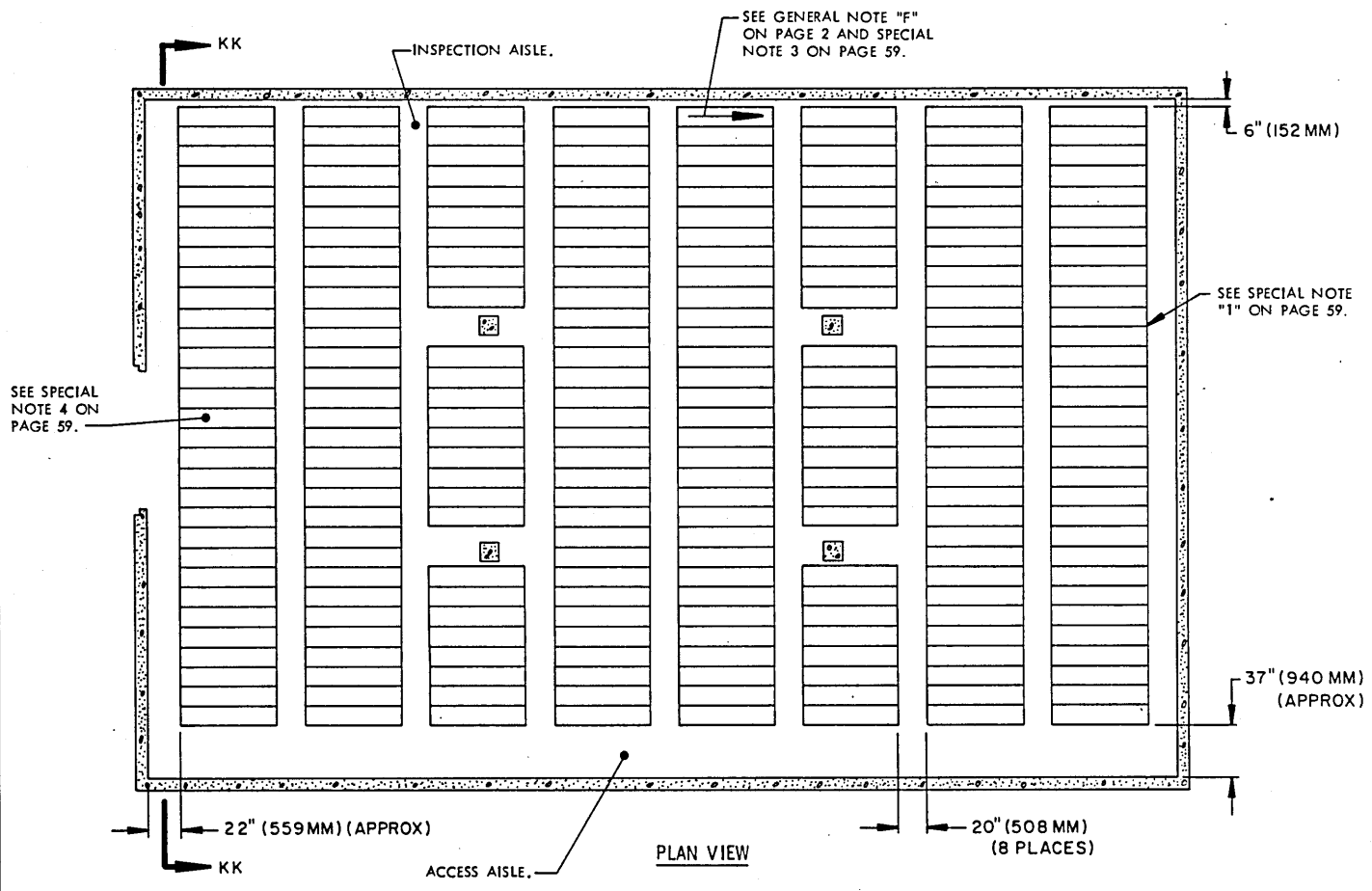


ISOMETRIC VIEW

SPECIAL NOTES:

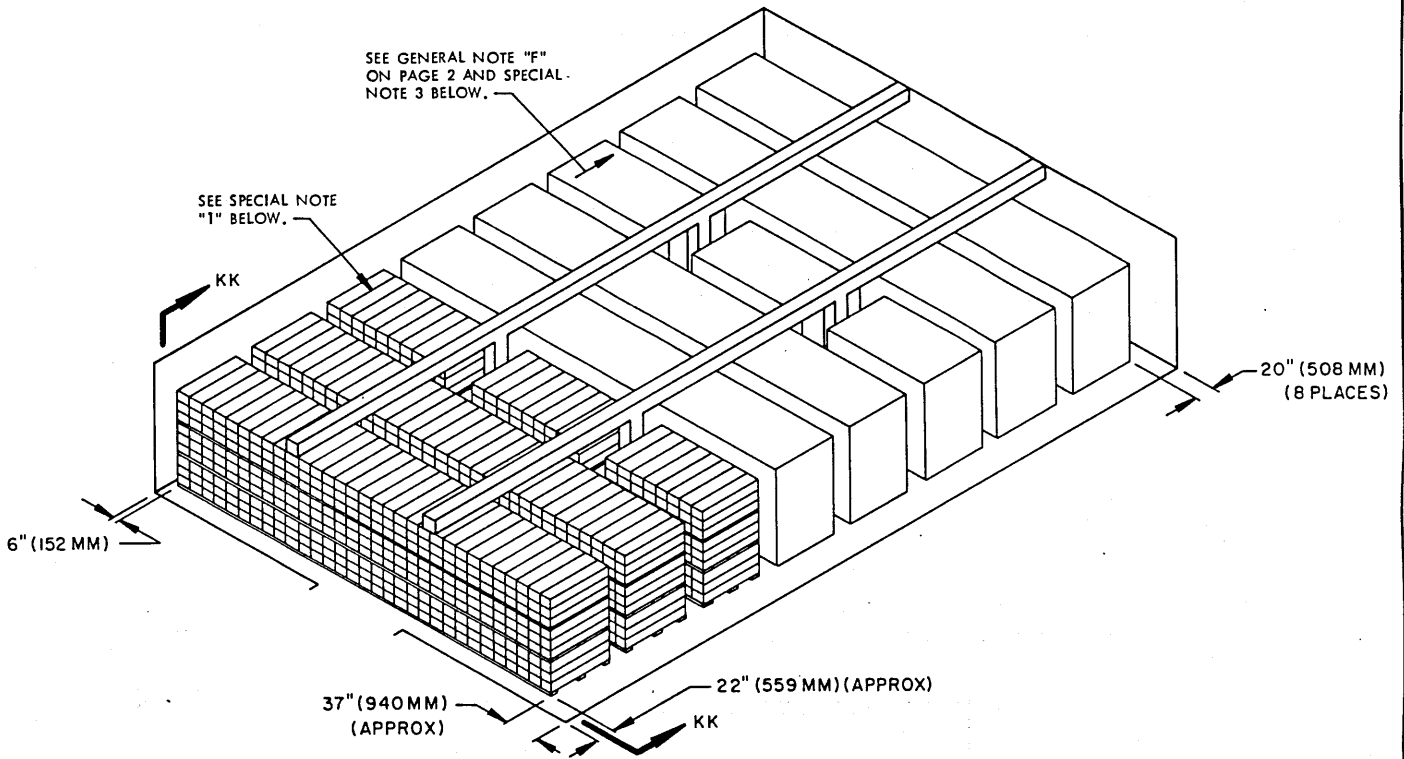
1. THE STORAGE PROCEDURES SHOWN DEPICT THE UNSEALED CONTAINER. THE SAME PROCEDURES WILL BE USED TO STORE THE SEALED CONTAINERS, HOWEVER, THE AISLE DIMENSION WILL BE ADJUSTED AS APPLICABLE.
2. WHEN CALCULATING DIMENSIONS, A ONE INCH (1") (25.4MM) SPACE WAS ALLOWED BETWEEN EACH PALLET UNIT TO PROMOTE EASE OF HANDLING BY MHE.
3. CAUTION: THIS ITEM IS IN A "PROPULSIVE STATE". SEE GENERAL NOTE "F" ON PAGE 2.
4. PALLET UNITS MUST BE POSITIONED SO AS TO ALLOW ACCESS TO THE SERIAL NUMBERS.

FOR "GENERAL NOTES" SEE PAGE 2.



**STORAGE AS SHOWN**

ITEM	QUANTITY
CONTAINERS -----	2,160

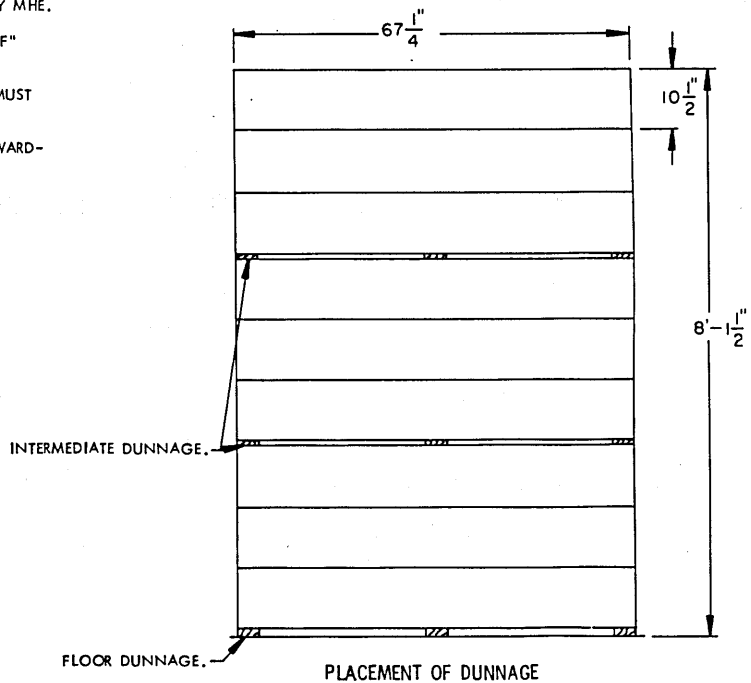


**ISOMETRIC VIEW**

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

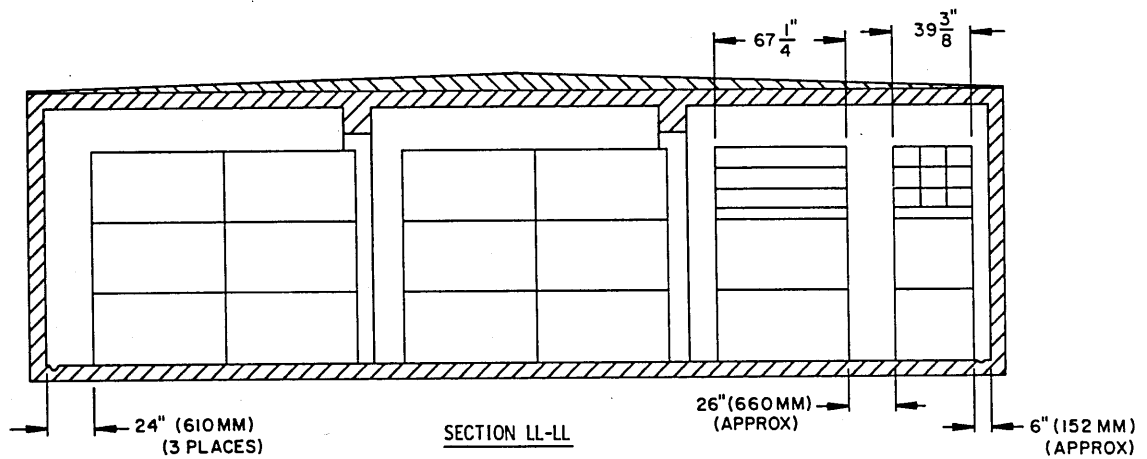
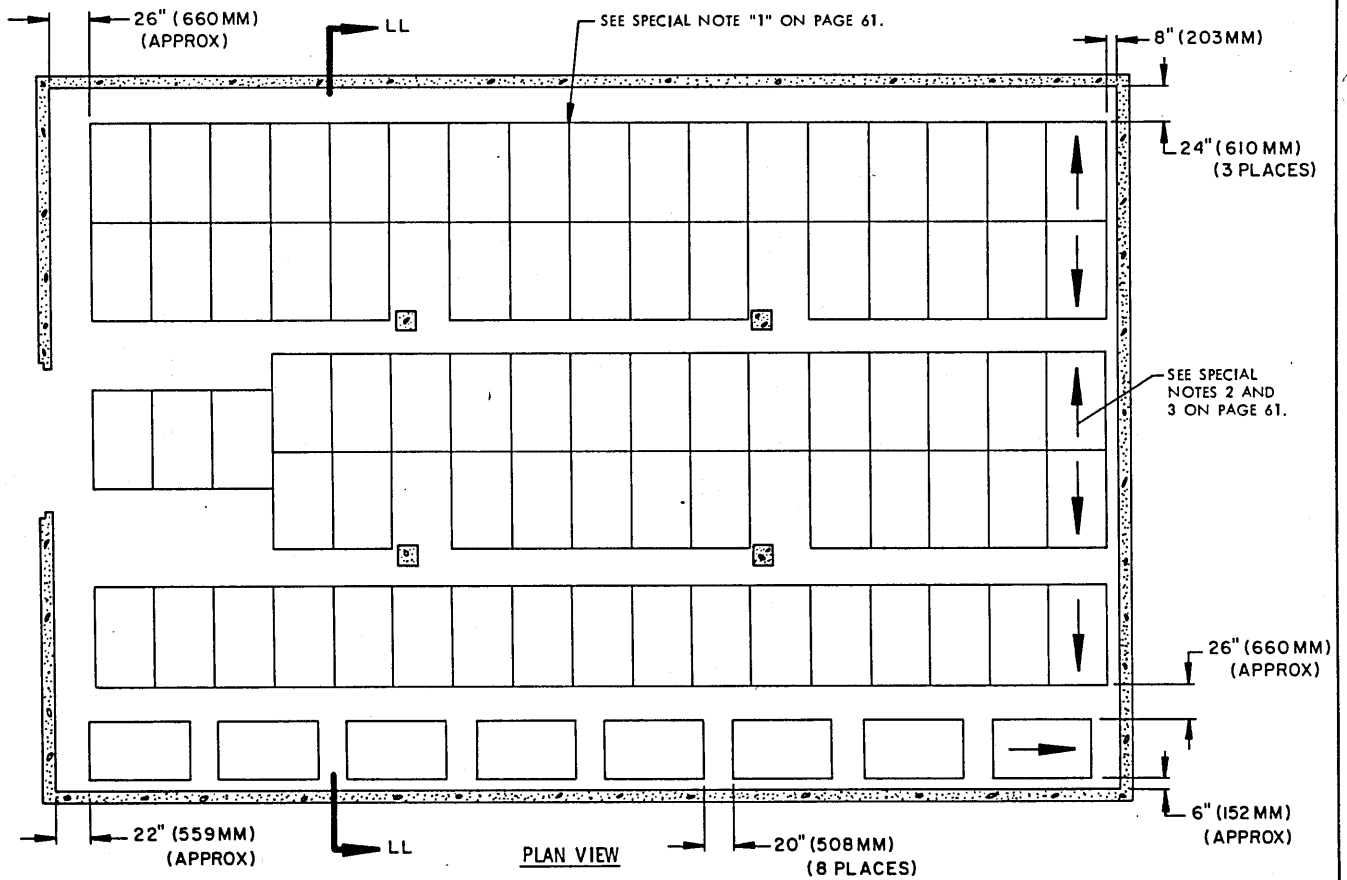
**SPECIAL NOTES:**

1. WHEN CALCULATING DIMENSIONS, A ONE INCH (1") (25.4MM) SPACE WAS ALLOWED BETWEEN EACH CONTAINER TO PROMOTE EASE OF HANDLING BY MHE.
2. CAUTION: THIS ITEM IS IN A "PROPULSIVE STATE". SEE GENERAL NOTE "F" ON PAGE 2.
3. CONTAINERS MUST NOT BE STACKED MORE THAN NINE (9) HIGH, AND MUST BE POSITIONED SO AS TO ALLOW ACCESS TO THE HUMIDITY INDICATORS.
4. IF DESIRED, CONTAINERS IN THE IMMEDIATE DOORWAY AREA OF THE FORWARD-MOST STACK MAY BE OMITTED.



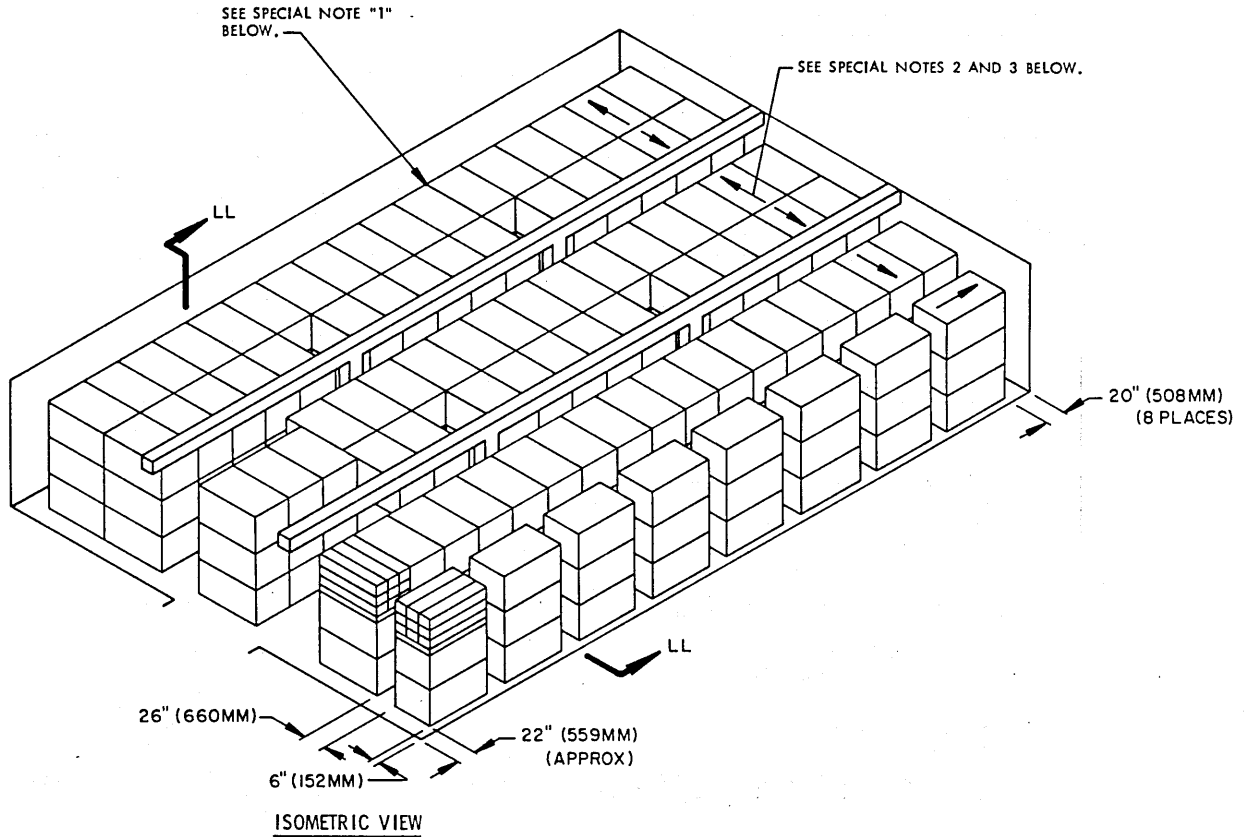
NOTE: THE JOINT OF INTERMEDIATE DUNNAGE OR FLOOR DUNNAGE SHOULD BE STAGGERED A MINIMUM OF 36" (914MM) HORIZONTALLY AND VERTICAL WITHIN A STACK.

BILL OF MATERIAL PER STACK		
LUMBER	LINEAR FEET	BOARD FEET
1" X 4"	218.50	72.83
2" X 4"	109.25	72.83



STORAGE AS SHOWN

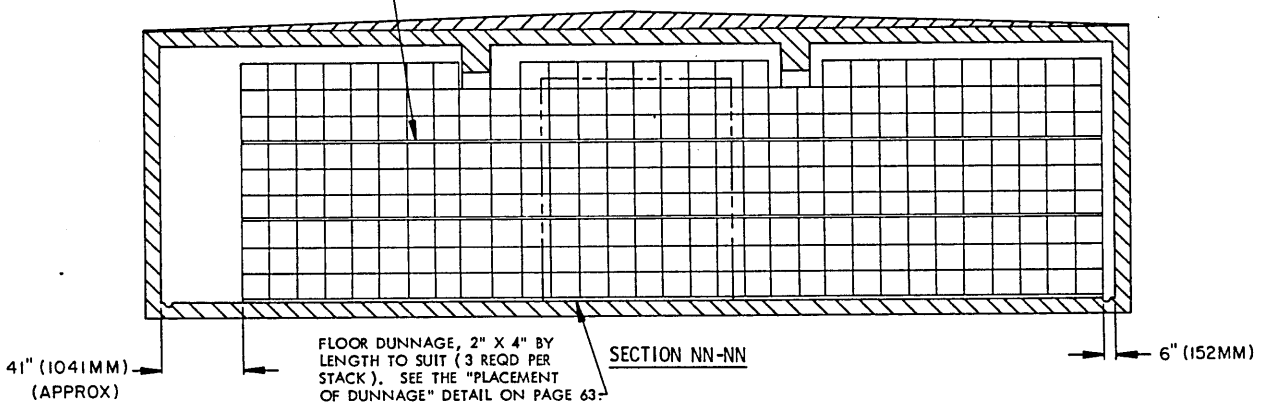
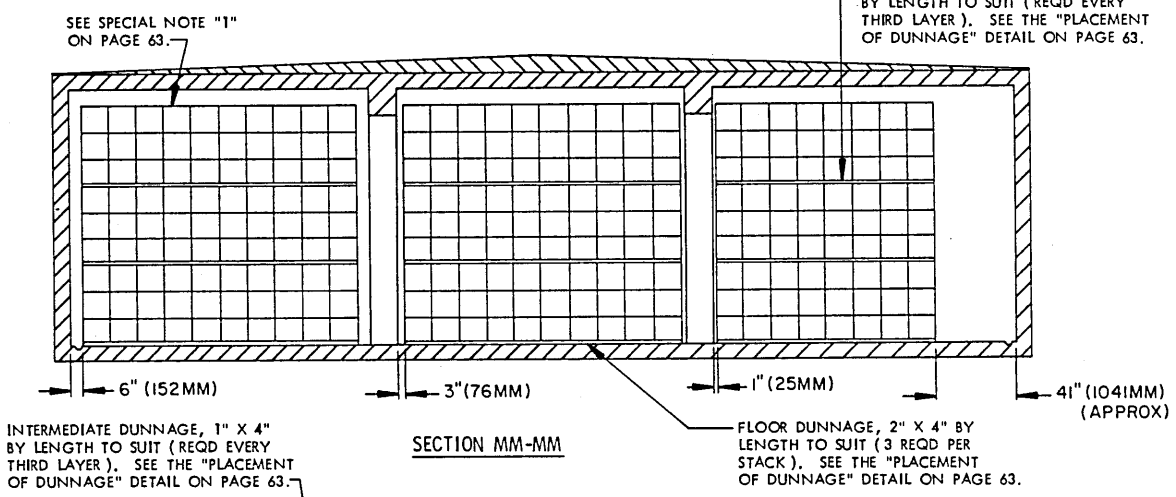
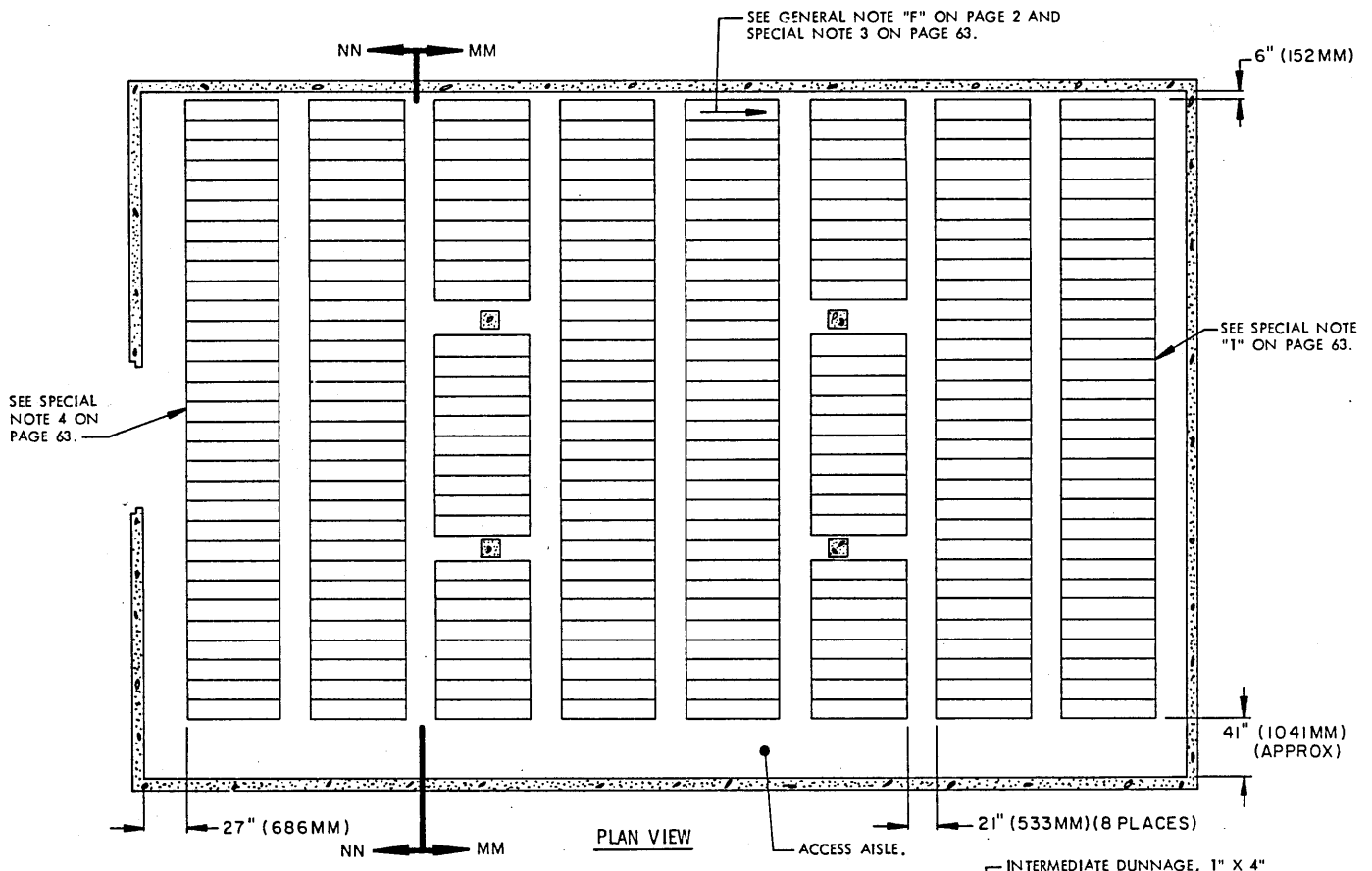
<u>ITEM</u>	<u>QUANTITY</u>
SKIDDED UNIT -----	258



SPECIAL NOTES:

1. WHEN CALCULATING DIMENSIONS, A ONE INCH (1") (25.4MM) SPACE WAS ALLOWED BETWEEN EACH SKIDDED UNIT TO PROMOTE EASE OF HANDLING BY MHE.
2. CAUTION: THIS ITEM IS IN A "PROPULSIVE STATE". SEE GENERAL NOTE "F" ON PAGE 2.
3. SKIDDED UNITS MUST BE POSITIONED SO AS TO ALLOW ACCESS TO THE HUMIDITY INDICATORS.

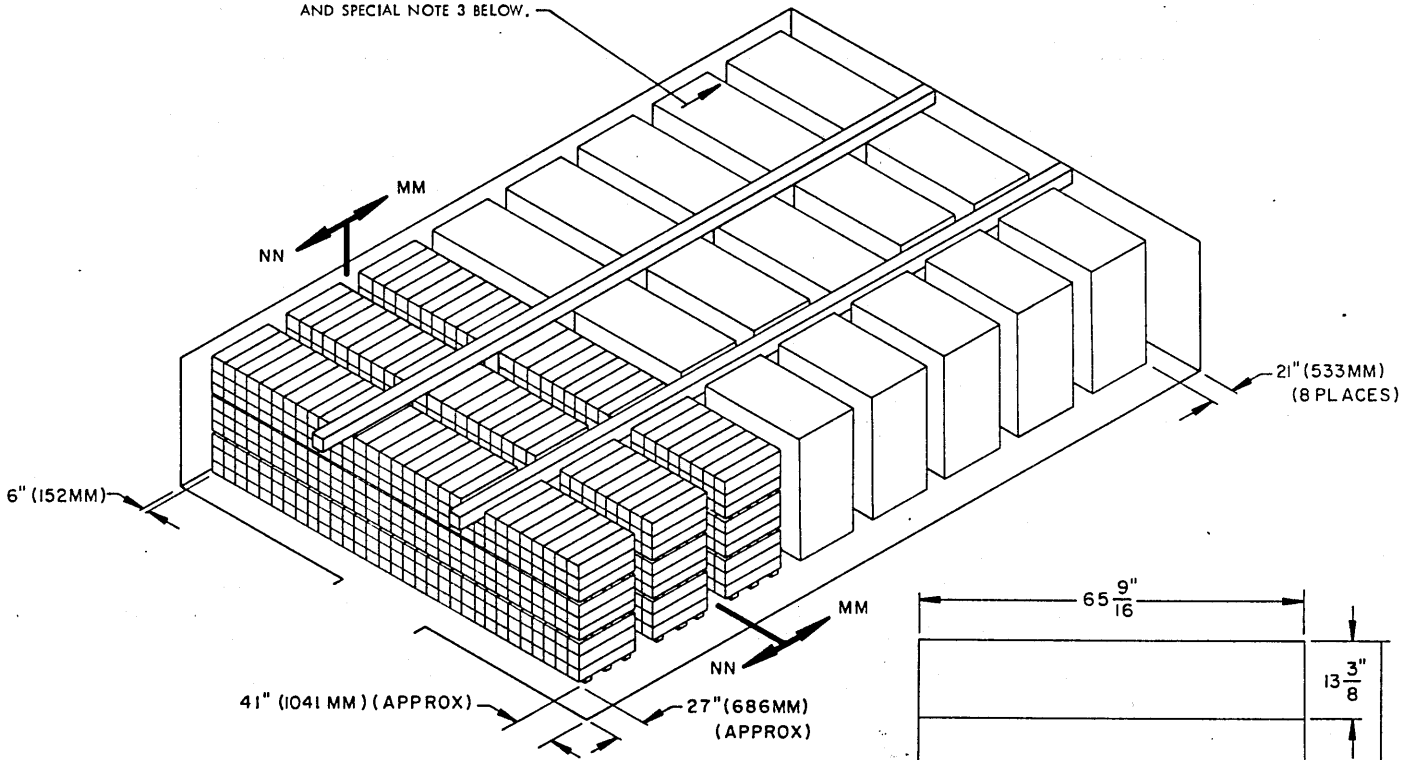
FOR "GENERAL NOTES" SEE PAGE 2.



**STORAGE AS SHOWN**

ITEM	QUANTITY
CONTAINERS -----	2,154

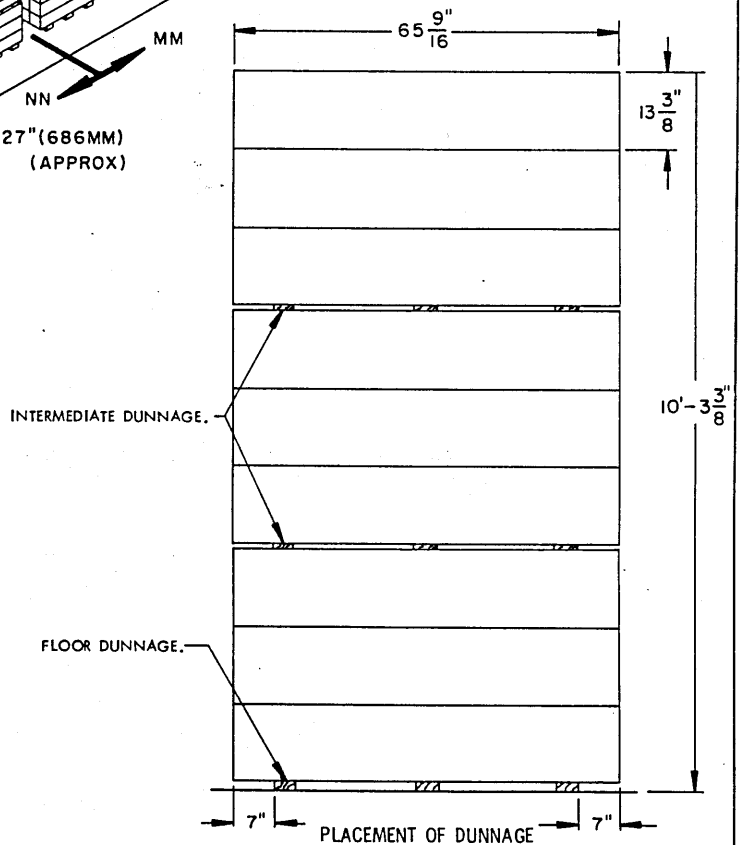
SEE GENERAL NOTE "F" ON PAGE 2 AND SPECIAL NOTE 3 BELOW.



**ISOMETRIC VIEW**

**SPECIAL NOTES:**

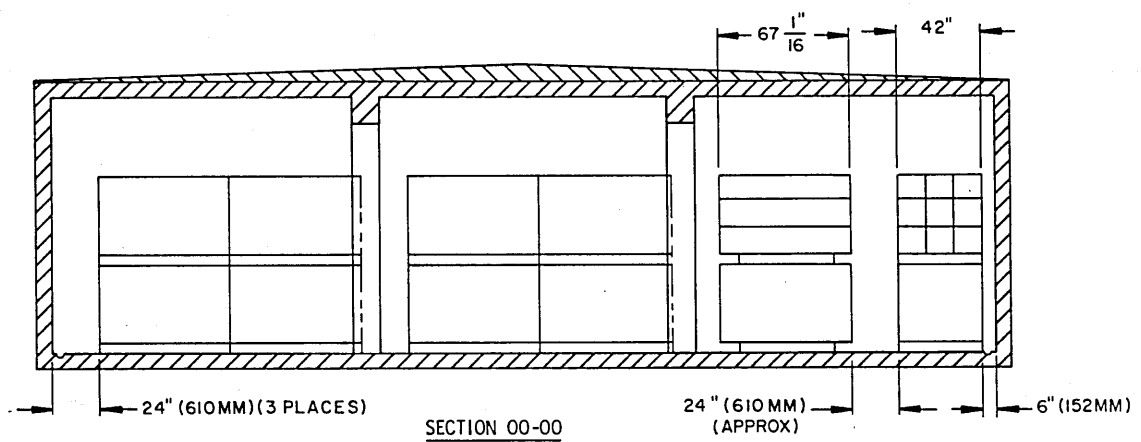
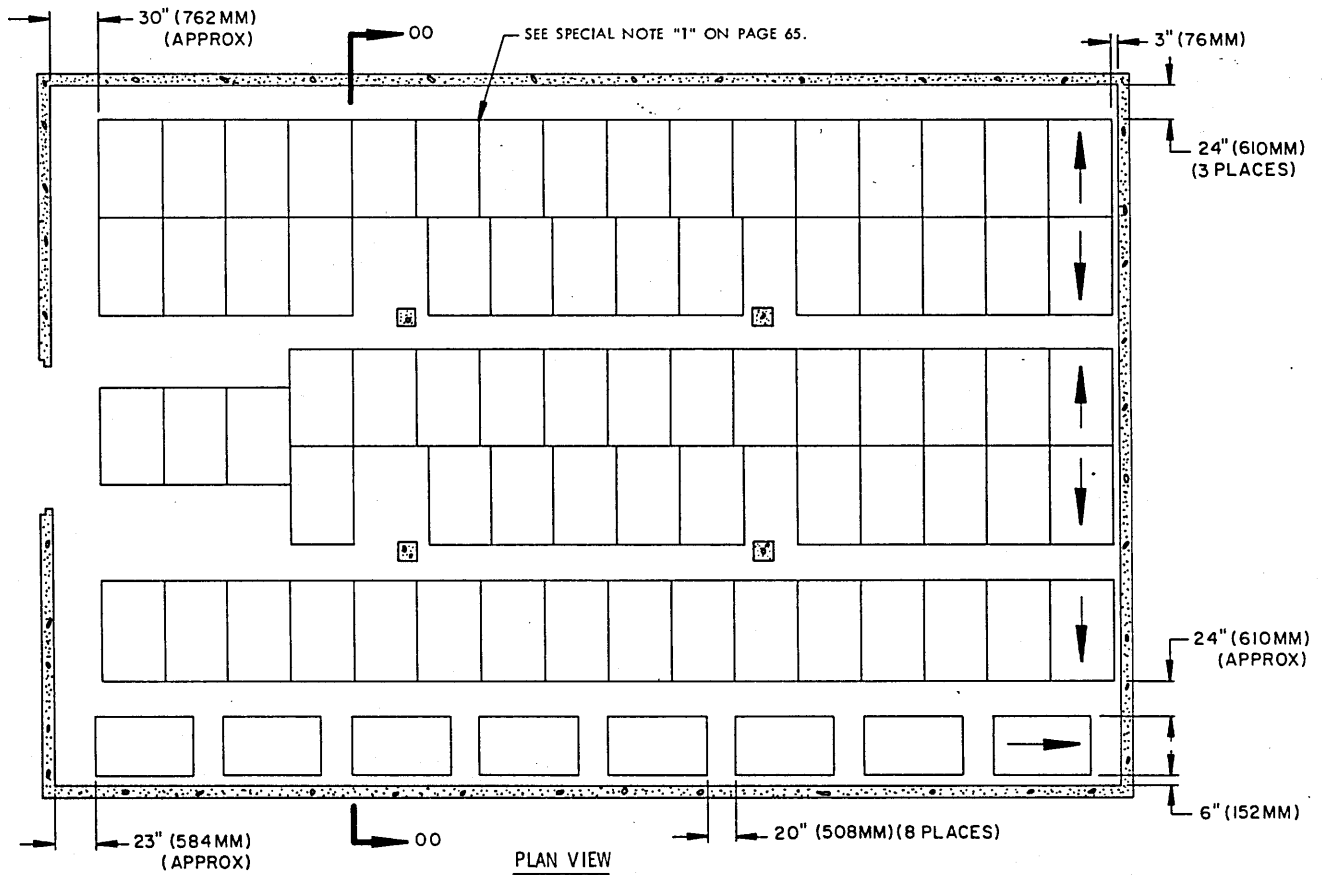
1. WHEN CALCULATING DIMENSIONS, A ONE INCH (1") (25.4MM) SPACE WAS ALLOWED BETWEEN EACH CONTAINER TO PROMOTE EASE OF HANDLING BY MHE.
2. CAUTION: THIS ITEM IS IN A "PROPULSIVE STATE". SEE GENERAL NOTE "F" ON PAGE 2.
3. CONTAINERS MUST BE POSITIONED SO AS TO ALLOW ACCESS TO THE HUMIDITY INDICATORS.
4. IF DESIRED, CONTAINERS IN THE IMMEDIATE DOORWAY AREA OF THE FORWARD-MOST STACK MAY BE OMITTED.



NOTE: THE JOINT OF INTERMEDIATE DUNNAGE OR FLOOR DUNNAGE SHOULD BE STAGGERED A MINIMUM OF 36" (914MM) HORIZONTALLY AND VERTICALLY WITHIN A STACK.

BILL OF MATERIAL PER STACK		
LUMBER	LINEAR FEET	BOARD FEET
1" X 4"	216.50	72.16
2" X 4"	108.25	72.16

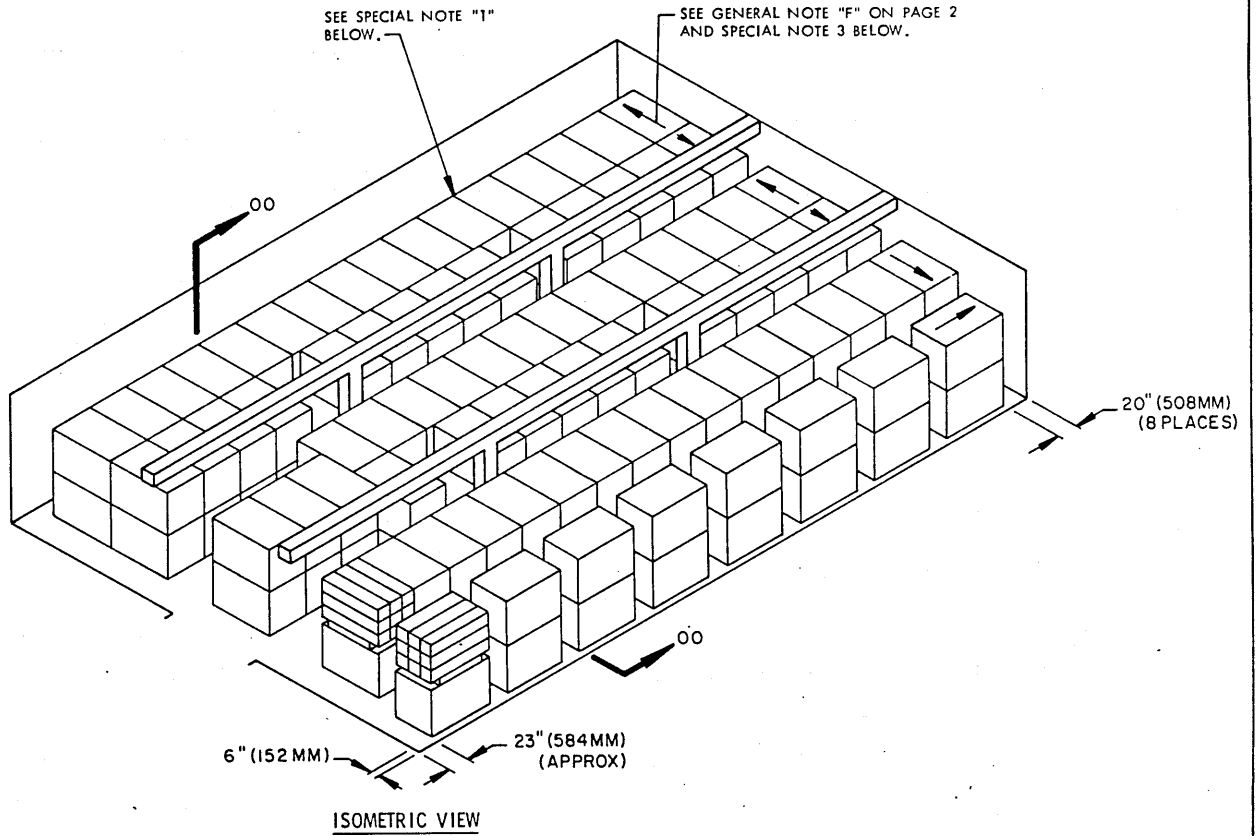
FOR "GENERAL NOTES" AND "MATERIAL SPECIFICATIONS" SEE PAGE 2





STORAGE AS SHOWN

<u>ITEM</u>	<u>QUANTITY</u>
PALLET UNIT -----	162



SPECIAL NOTES:

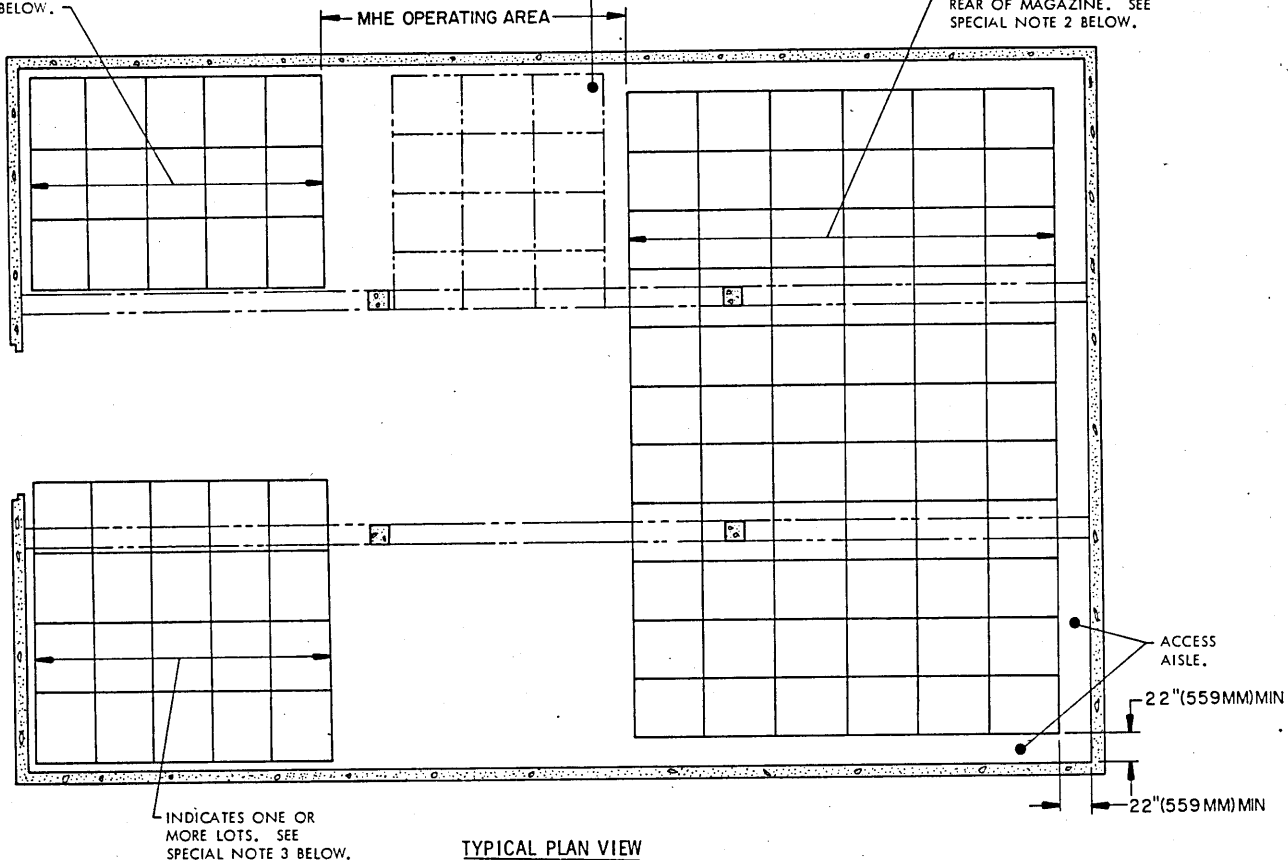
1. WHEN CALCULATING DIMENSIONS, A ONE INCH (1") (25.4MM) SPACE WAS ALLOWED BETWEEN EACH PALLET UNIT TO PROMOTE EASE OF HANDLING BY MHE.
2. CAUTION: THIS ITEM IS IN A "PROPULSIVE STATE". SEE GENERAL NOTE "F" ON PAGE 2.
3. PALLET UNITS MUST BE POSITIONED SO AS TO ALLOW ACCESS TO THE HUMIDITY INDICATORS.

FOR "GENERAL NOTES" SEE PAGE 2.

INDICATES ONE OR MORE LOTS. SEE SPECIAL NOTE 3 BELOW.

SEE SPECIAL NOTE 4 BELOW.

INDICATES LARGEST LOT IN REAR OF MAGAZINE. SEE SPECIAL NOTE 2 BELOW.



TYPICAL PLAN VIEW

SPECIAL NOTES:

1. THE TYPICAL PLAN VIEW ON THIS PAGE DEPICTS STORAGE OF MORE THAN ONE ITEM LOT PER MAGAZINE WHEN IT IS DESIRED OR REQUIRED TO HAVE ACCESS TO EACH LOT FOR REMOVAL. THE STORAGE PLAN IS TYPICAL ONLY AND MAY BE ADJUSTED AS NECESSARY TO SUIT EXISTING REQUIREMENTS.
2. THE LARGEST LOT WILL BE STORED IN STACKS ACROSS THE REAR OF THE MAGAZINE. REFER TO THE BASIC STORAGE VIEW FOR STACKING PATTERNS AND AISLE DIMENSIONS APPLICABLE FOR THE ITEMS (PALLETIZED OR UNPALLETIZED) BEING STORED. IF THE LOT WILL OCCUPY LESS THAN ONE-FOURTH OF THE MAGAZINE, STORAGE IN THE REAR PORTION OF THE MAGAZINE MAY BE OF MORE THAN ONE LOT, ERECTED IN BLOCKS OR ROWS SIMILAR TO THAT SHOWN IN THE FRONTAL AREA.
3. WHEN STORING PALLETIZED ITEMS, STORAGE IN THE FRONTAL AREA OF A MAGAZINE AS SHOWN CAN BE FOR ONE LOT STORED ON BOTH SIDES OF THE ACCESS AISLE, OR FOR ONE OR MORE LOTS ON EACH SIDE OF THE AISLE. IF MORE THAN ONE SMALL LOT IS TO BE STORED ON ONE SIDE OF AN AISLE, AND ALSO IF SEVERAL SMALL LOTS ARE TO BE STORED AT THE REAR OF A MAGAZINE, LOTS MUST BE SPACED LATERALLY WITH A THREE-INCH (3") MINIMUM SEPARATION. IF A LOT CONSISTS OF ONLY ONE LONGITUDINAL ROW, SUFFICIENT SPACE MUST BE ALLOWED ON EACH SIDE OF THE ROW TO PROVIDE AN ACCESS AISLE OF ADEQUATE WIDTH TO PERMIT FORKLIFT OPERATIONS.
4. ADDITIONAL PALLET UNITS MAY BE STORED WITHIN ONE SIDE OF THE MHE OPERATING AREA IF STORAGE ON THAT SIDE OF THE MAGAZINE CONSISTS OF ONLY ONE LOT, AND PROVIDING THE PALLET UNIT BEING STORED HAS 4-WAY PICK-UP CAPABILITIES.
5. ALL ACCESS AISLES SHALL BE MAINTAINED AT LEAST 22" (559MM) IN WIDTH.