

# MLRS-BCW

## STORAGE IN APPROVED MAGAZINES OF INJECTOR ASSEMBLY CONTAINER (IAC) FOR THE MULTIPLE LAUNCH ROCKET SYSTEM-BINARY CHEMICAL WARHEAD

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| U. S. ARMY MATERIEL COMMAND DRAWING   |                              |            |                         |
|---|------------------------------|------------|-------------------------|
| APPROVED, U. S. ARMY ARMAMENT, MUNITIONS AND<br>CHEMICAL COMMAND<br><br><i>David A. Piskorik</i><br><br>SMCAR-ESK   | DRAFTSMAN                    | I. DEPPE   |                         |
|   | ENGINEER                     | M. DAEUMER |                         |
| APPROVED BY ORDER OF COMMANDING GENERAL, U. S.<br>ARMY MATERIEL COMMAND<br><br><i>John L. Byrd</i><br><br>U. S. ARMY DEFENSE AMMUNITION CENTER AND SCHOOL | SUPPLY ENGINEERING DIVISION  |            | <i>Thomas J. Michel</i> |
|   | LOGISTICS ENGINEERING OFFICE |            | <i>William F. Ernst</i> |
| SEPTEMBER 1991  |                              |            |                         |
| CLASS   | DIVISION                     | DRAWING    | FILE                    |
| 19  | 48                           | 4526       | CB1-3-4-14-22J4         |

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 IN THIS DRAWING ARE APPLICABLE TO THE INJECTOR ASSEMBLY CONTAINER (IAC) FOR THE MULTIPLE LAUNCH ROCKET SYSTEM-BINARY CHEMICAL WEAPON (MLRS-BCW). SUBSEQUENT REFERENCE TO CONTAINER HEREIN MEANS THE CONTAINER WITH INJECTOR ASSEMBLIES.
- C. FOR DETAILS OF THE INJECTOR ASSEMBLY CONTAINER, SEE PAGE 3.  
  
CONTAINER DIMENSIONS - - - - 91" LONG BY 34" WIDE BY 37" HIGH. (36" STACKING HEIGHT ASSUMED).  
GROSS WEIGHT - - - - - 1,053 POUNDS (APPROX)
- D. CAUTION: THIS ITEM MUST BE STORED WITH THE FORWARD END FACING TOWARD AN INSPECTION AISLE AS INDICATED BY THE DIRECTIONAL ARROWS ON THE STORAGE VIEWS. CONTAINERS MUST BE STACKED NO MORE THAN FOUR (4) CONTAINERS HIGH.
- E. MAGAZINES MUST COMPLY WITH ALL REQUIREMENTS AND BE APPROVED FOR STORAGE OF CHEMICAL ITEMS. THE STORAGE PROCEDURES DEPICTED WITHIN THIS DOCUMENT ARE APPLICABLE FOR STORAGE IN VARIOUS TYPES AND SIZES OF MAGAZINES. THE STORAGE PROCEDURES DEPICTED FOR THE SPECIFIC TYPES OF MAGAZINES MAY ALSO BE UTILIZED TO STORE CONTAINERS 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 FOLLOWED.
- F. STORED CONTAINERS MUST NOT CONTACT THE WALLS, COLUMNS OR BEAMS OF A MAGAZINE. TO PROVIDE FOR THIS MANDATORY CLEARANCE REQUIREMENT, CONTAINERS MAY BE ELIMINATED FROM THE DEPICTED STORAGE PATTERN OR AISLE DIMENSIONS MAY BE ADJUSTED, AS NECESSARY.
- G. AISLE DIMENSIONS AS SHOWN HEREIN MAY BE ADJUSTED TO SUIT LOCAL CONDITIONS AND/OR AVAILABLE MATERIAL HANDLING EQUIPMENT (MHE). HOWEVER, A 24" MINIMUM INSPECTION AISLE MUST BE MAINTAINED AT THE FORWARD END OF ALL CONTAINERS.
- H. IF AVAILABLE MHE PERMITS, ADDITIONAL CONTAINERS MAY BE STORED IN THE FRONTAL AREA AND/OR OTHER AVAILABLE AREA OF THE MAGAZINE.
- J. ANY CONTAINER THAT DOES NOT CONTAIN SIX (6) INJECTOR ASSEMBLIES WILL NOT BE BURIED IN STORAGE. IT SHOULD BE POSITIONED ON TOP OF THE LAST STACK ADJACENT TO OR NEAREST THE MAGAZINE DOOR.
- K. THE HEIGHT OF THE PACKAGE GUARD ON SOME FORKLIFT TRUCKS MAY NOT PERMIT PLACEMENT OF SOME TOP LAYER CONTAINERS IN THE STACKS SHOWN IN THE "SECTION" VIEWS HEREIN, UNLESS TWO UPPER CONTAINERS ARE HANDLED AS ONE LIFT OR THE PACKAGE GUARD IS REMOVED (TINE CARRIAGE WILL IN MOST INSTANCES PROVIDE ADEQUATE PACKAGE GUARD PROTECTION). ONLY A FORKLIFT TRUCK OF ADEQUATE CAPACITY WILL BE USED WHEN LIFTING TWO INJECTOR ASSEMBLY CONTAINERS AS ONE LIFT.

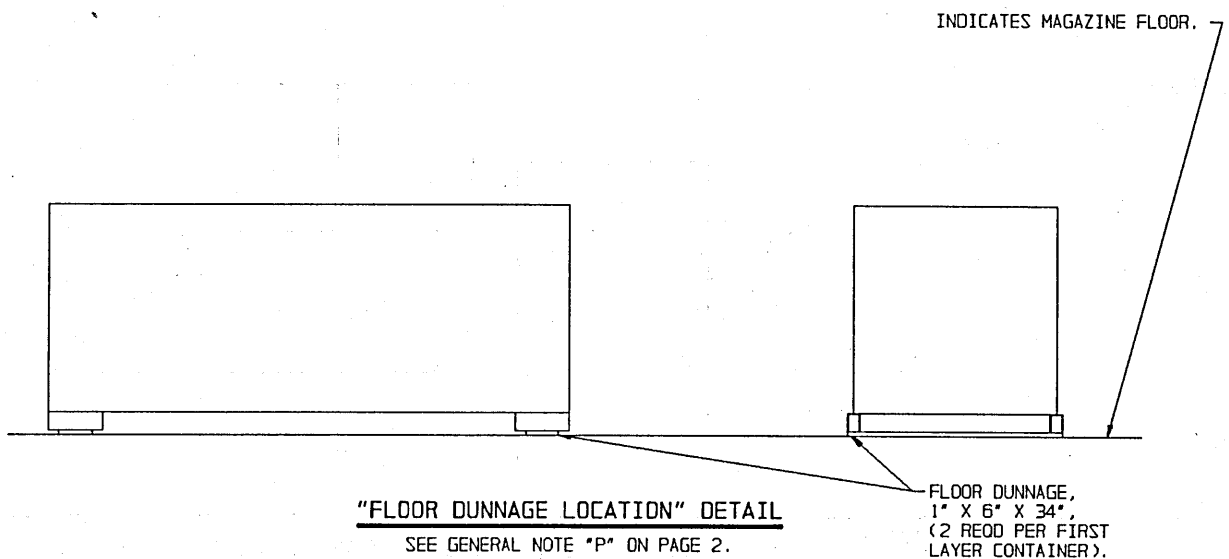
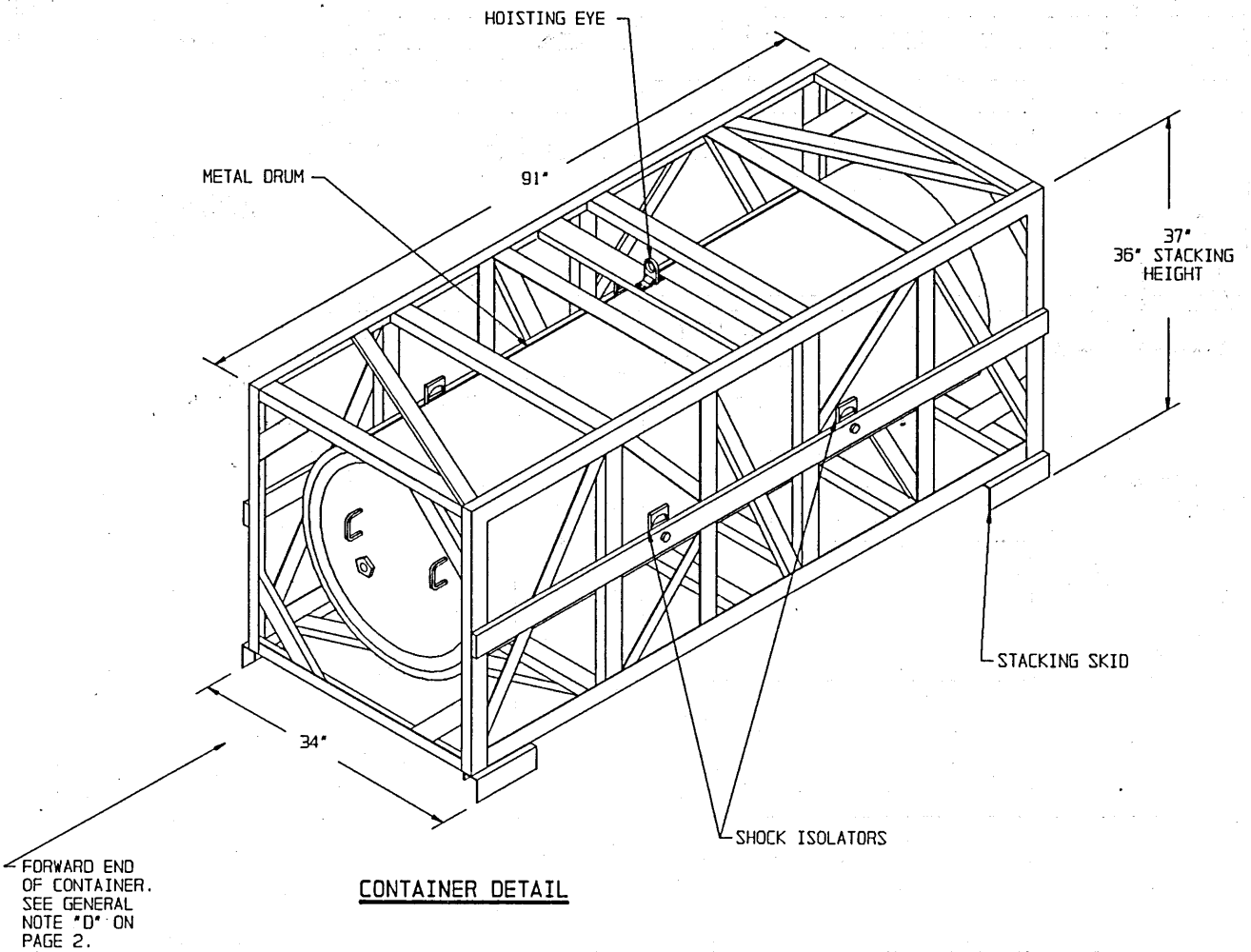
(CONTINUED AT RIGHT)

(GENERAL NOTES CONTINUED)

- L. IF THE QUANTITY OF CONTAINERS FOR A MAGAZINE IS TO BE REDUCED FROM WHAT IS SHOWN HEREIN, DUE TO A LIMITED QUANTITY TO BE STORED OR FOR ANY OTHER REASON, THE DELINEATED PROCEDURES ARE TO BE ADJUSTED BY OMITTING STACKS RATHER THAN BY OMITTING LAYERS.
- M. OTHER COMPATIBLE ITEMS MAY BE STORED IN A MAGAZINE WHICH IS PARTIALLY FILLED WITH THE DESIGNATED ITEM.
- 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. CAUTION: THE ALLOWABLE "EXPLOSIVE LIMIT" ESTABLISHED FOR A MAGAZINE IS NOT TO BE EXCEEDED.
- P. THE USE OF "FLOOR DUNNAGE" UNDER EACH FIRST-LAYER CONTAINER IS OPTIONAL, ALTHOUGH THE USE OF THIS TYPE DUNNAGE IS DELINEATED WITHIN THIS STORAGE PROCEDURE DRAWING. THE PURPOSE OF FLOOR DUNNAGE IS TO HELP KEEP THE SKIDS OF A CONTAINER 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. RANDOM LENGTH FLOOR DUNNAGE MAY BE USED.
- Q. PORTIONS OF THE MAGAZINES, SUCH AS SIDEWALLS, END WALLS, AND ROOFS HAVE NOT BEEN SHOWN IN THE STORAGE VIEWS FOR CLARITY PURPOSES.
- R. CONVERSION TO METRIC EQUIVALENTS: DIMENSIONS WITHIN THIS DOCUMENT ARE EXPRESSED IN INCHES, AND WEIGHTS ARE EXPRESSED IN POUNDS. WHEN NECESSARY, THE METRIC EQUIVALENT MAY BE COMPUTED ON THE BASIS OF ONE INCH EQUALS 25.4MM, AND ONE POUND EQUALS 0.454KG.

MATERIAL SPECIFICATIONS

LUMBER - - - : SEE TM 743-200-1, DUNNAGE LUMBER, FED SPEC MM-L-751

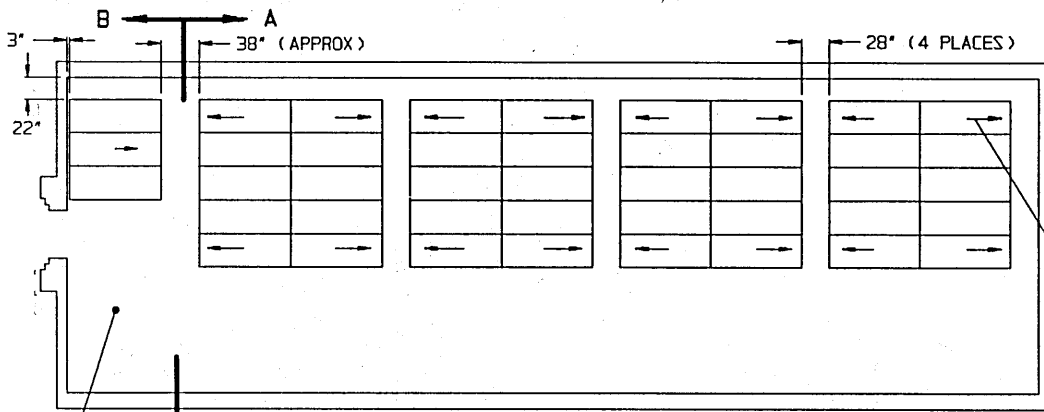


**DETAILS**

**STORAGE IN 81'-0" IGLOO**

(12'-9" HIGH)

| ITEM                | QUANTITY |
|---------------------|----------|
| CONTAINER - - - - - | 128      |



**PLAN VIEW**  
(81'-0" IGLOO)

ARROWS INDICATE FORWARD END OF CONTAINER.

SEE GENERAL NOTE "H" ON PAGE 2.

SEE GENERAL NOTE "F" ON PAGE 2.

**SECTION A-A** 10'-6" (APPROX) MHE AISLE

FLOOR DUNNAGE, 1" X 6" X 34" (2 REED PER FIRST LAYER CONTAINER). SEE THE "FLOOR DUNNAGE LOCATION" DETAIL ON PAGE 3 AND GENERAL NOTE "P" ON PAGE 2.

SEE GENERAL NOTE "F" ON PAGE 2.

INDICATES OUTLINE OF DOOR OPENING.

**SECTION B-B** 16'-2" (APPROX) MHE AISLE 22" FLOOR DUNNAGE, 1" X 6" X 34", (2 REED PER FIRST LAYER CONTAINER).

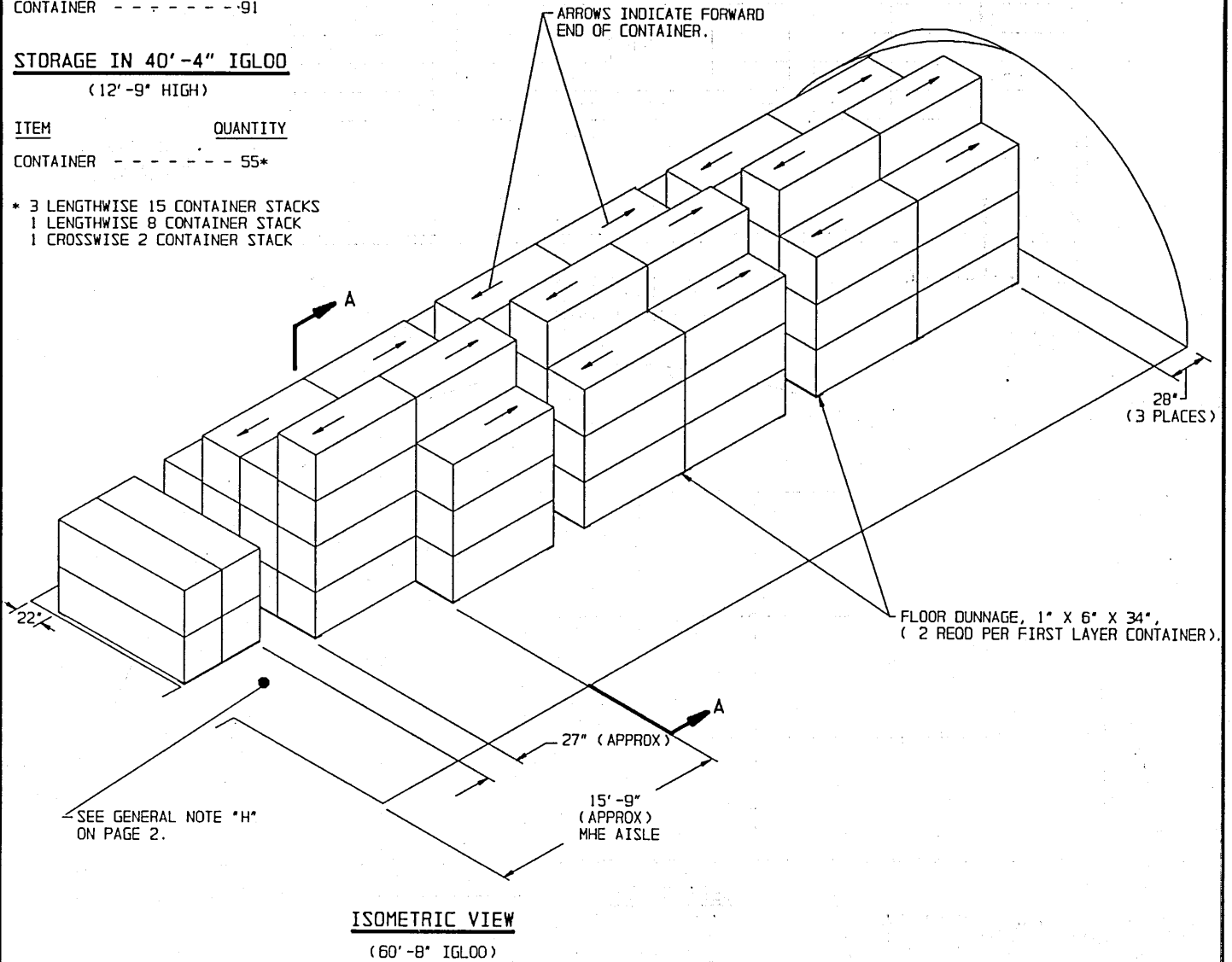
**STORAGE IN 60'-8" IGL00**  
(12'-9" HIGH)

| ITEM                | QUANTITY |
|---------------------|----------|
| CONTAINER - - - - - | 91       |

**STORAGE IN 40'-4" IGL00**  
(12'-9" HIGH)

| ITEM                | QUANTITY |
|---------------------|----------|
| CONTAINER - - - - - | 55*      |

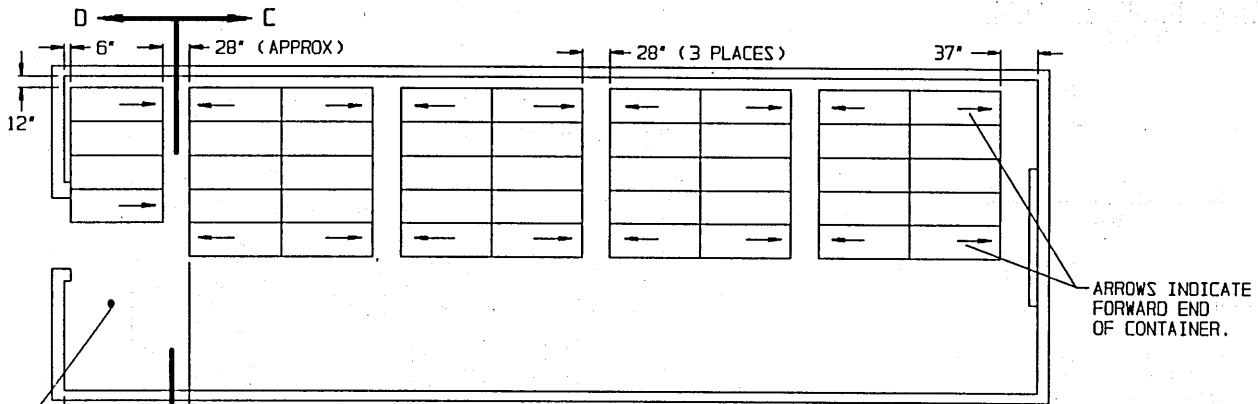
- \* 3 LENGTHWISE 15 CONTAINER STACKS
- 1 LENGTHWISE 8 CONTAINER STACK
- 1 CROSSWISE 2 CONTAINER STACK



**ISOMETRIC VIEW**  
(60'-8" IGL00)

| BILL OF MATERIAL (PER FIRST LAYER CONTAINER) |             |            |
|--|-------------|------------|
| LUMBER                                       | LINEAR FEET | BOARD FEET |
| 1" X 6"                                      | 5.67        | 2.83       |

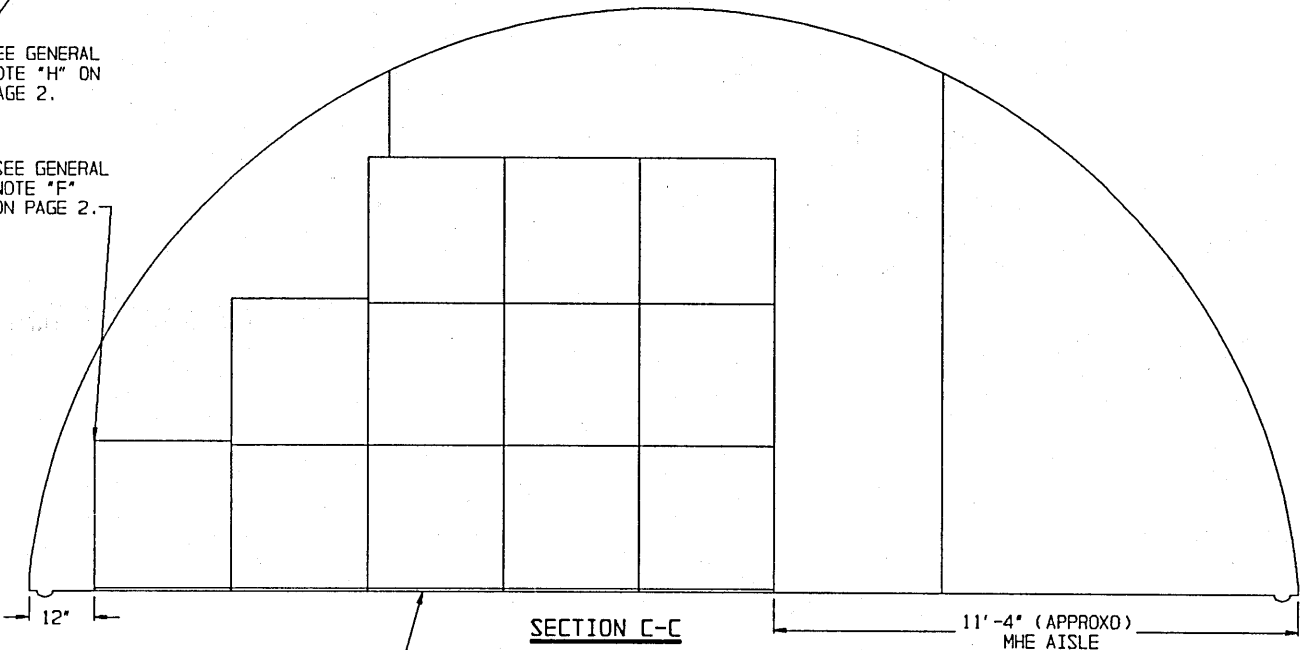
FOR "GENERAL NOTES" AND "MATERIAL SPECIFICATIONS", SEE PAGE 2.



**PLAN VIEW**  
(81'-2" MAGAZINE)

SEE GENERAL NOTE "H" ON PAGE 2.

SEE GENERAL NOTE "F" ON PAGE 2.

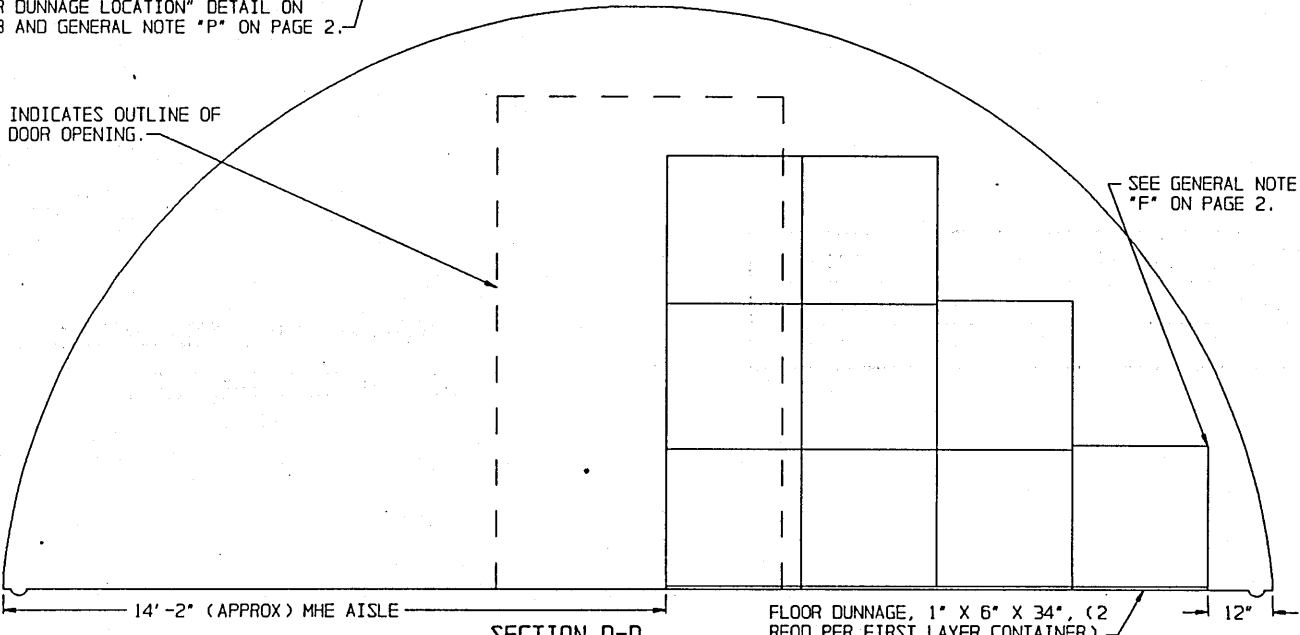


**SECTION C-C**

FLOOR DUNNAGE, 1" X 6" X 34" (2 REED PER FIRST LAYER CONTAINER). SEE THE "FLOOR DUNNAGE LOCATION" DETAIL ON PAGE 3 AND GENERAL NOTE "P" ON PAGE 2.

INDICATES OUTLINE OF DOOR OPENING.

SEE GENERAL NOTE "F" ON PAGE 2.



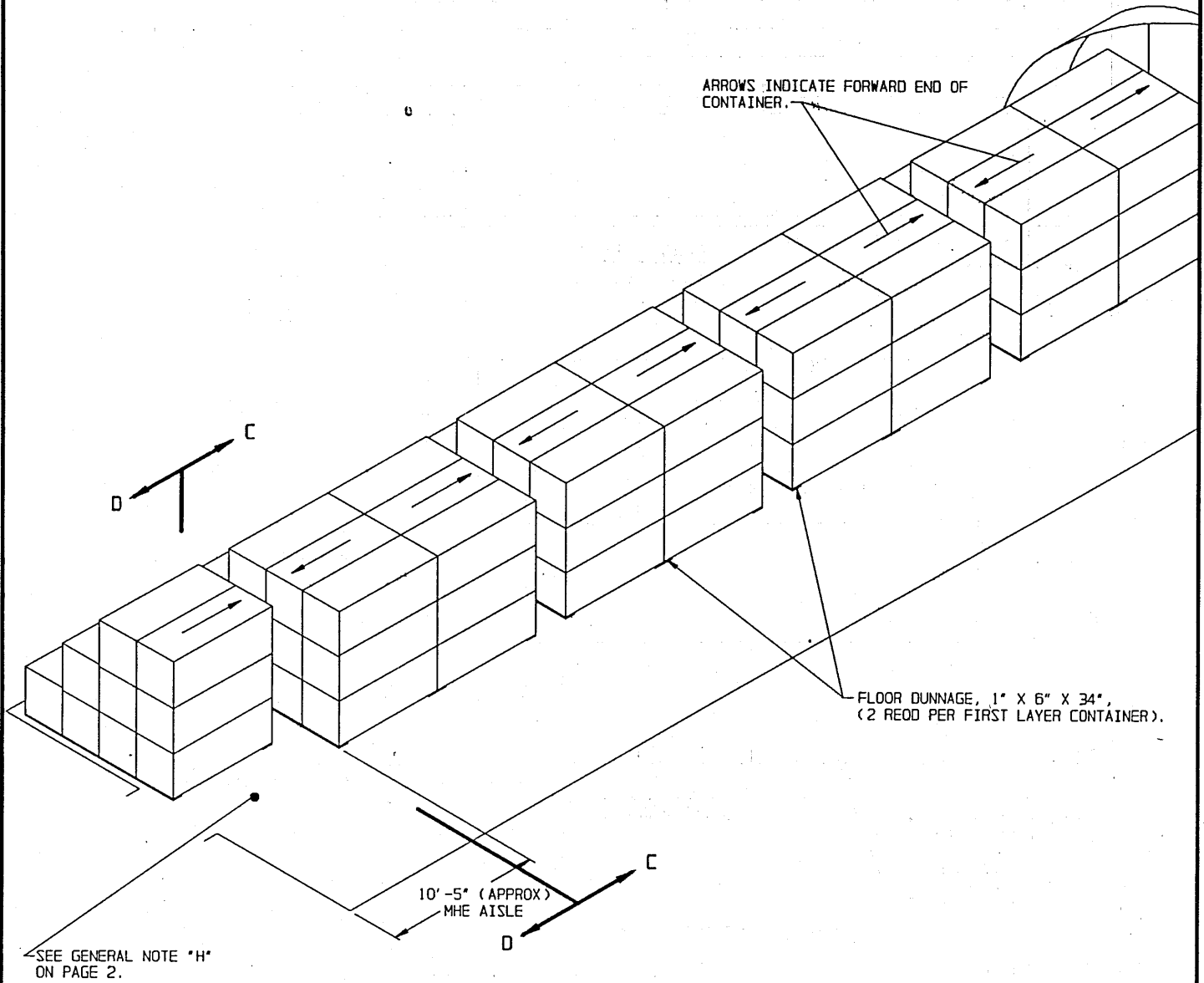
**SECTION D-D**

FLOOR DUNNAGE, 1" X 6" X 34", (2 REED PER FIRST LAYER CONTAINER).

**STORAGE IN 81'-2" MAGAZINE**

(12'-1-3/4" HIGH)

| ITEM                | QUANTITY |
|---------------------|----------|
| CONTAINER - - - - - | 105      |



**ISOMETRIC VIEW**  
(81'-2" MAGAZINE)

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

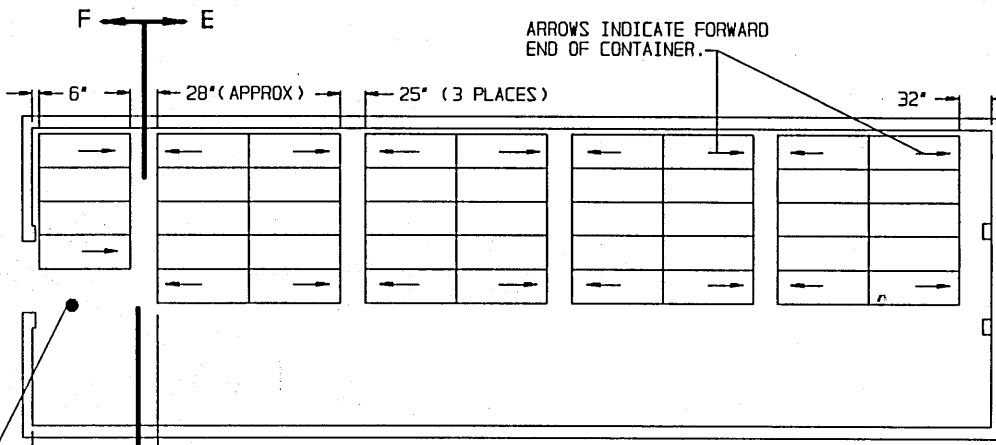
| BILL OF MATERIAL (PER FIRST LAYER CONTAINER) |             |            |
|--|-------------|------------|
| LUMBER                                       | LINEAR FEET | BOARD FEET |
| 1" X 6"                                      | 5.67        | 2.83       |

**STORAGE IN 80'-0" MAGAZINE**

(12'-1-3/4" HIGH)

| ITEM      | QUANTITY |
|-----------|----------|
| CONTAINER | 105      |

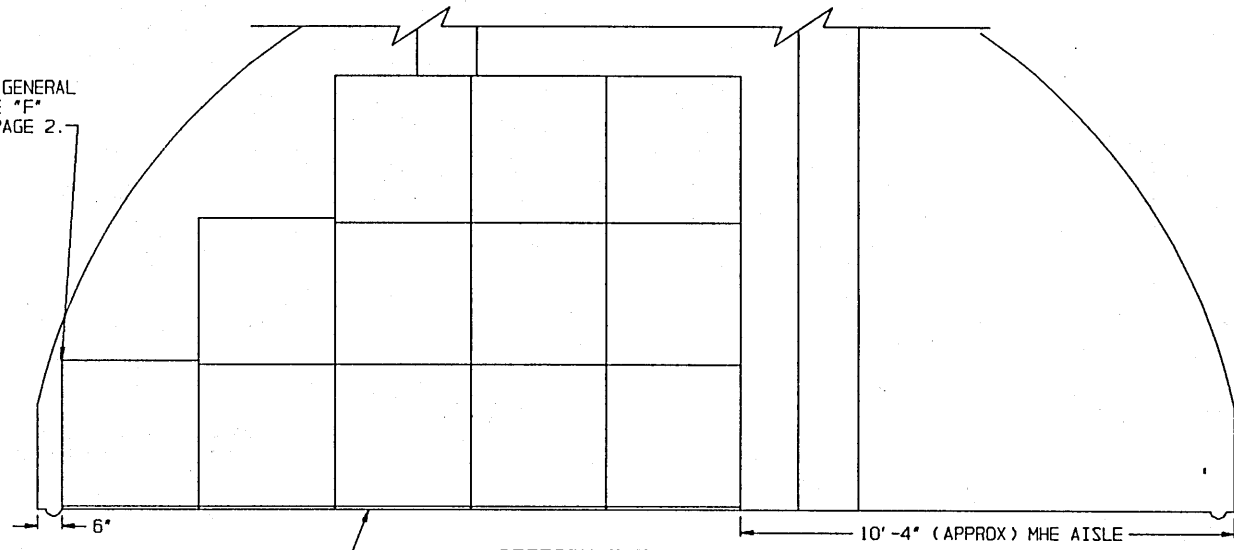
ARROWS INDICATE FORWARD END OF CONTAINER.



**PLAN VIEW**  
(80'-0" MAGAZINE)

SEE GENERAL NOTE "H" ON PAGE 2.

SEE GENERAL NOTE "F" ON PAGE 2.

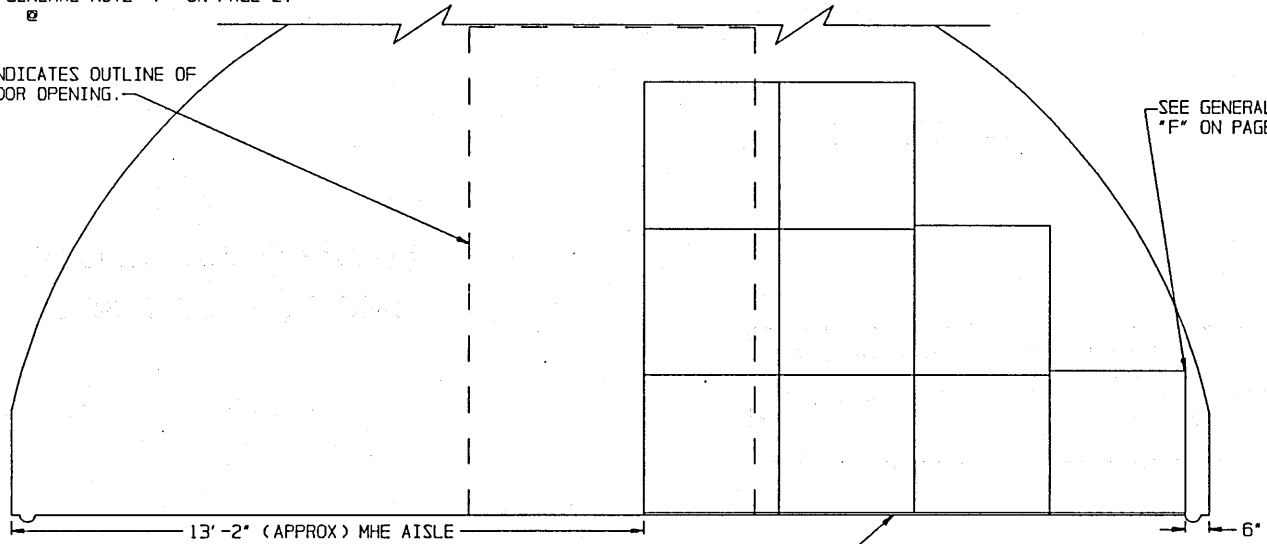


**SECTION E-E**

FLOOR DUNNAGE, 1" X 6" X 34", (2 REOD PER FIRST LAYER CONTAINER). SEE THE "FLOOR DUNNAGE LOCATION" DETAIL ON PAGE 3 AND GENERAL NOTE "P" ON PAGE 2.

INDICATES OUTLINE OF DOOR OPENING.

SEE GENERAL NOTE "F" ON PAGE 2.



**SECTION F-F**

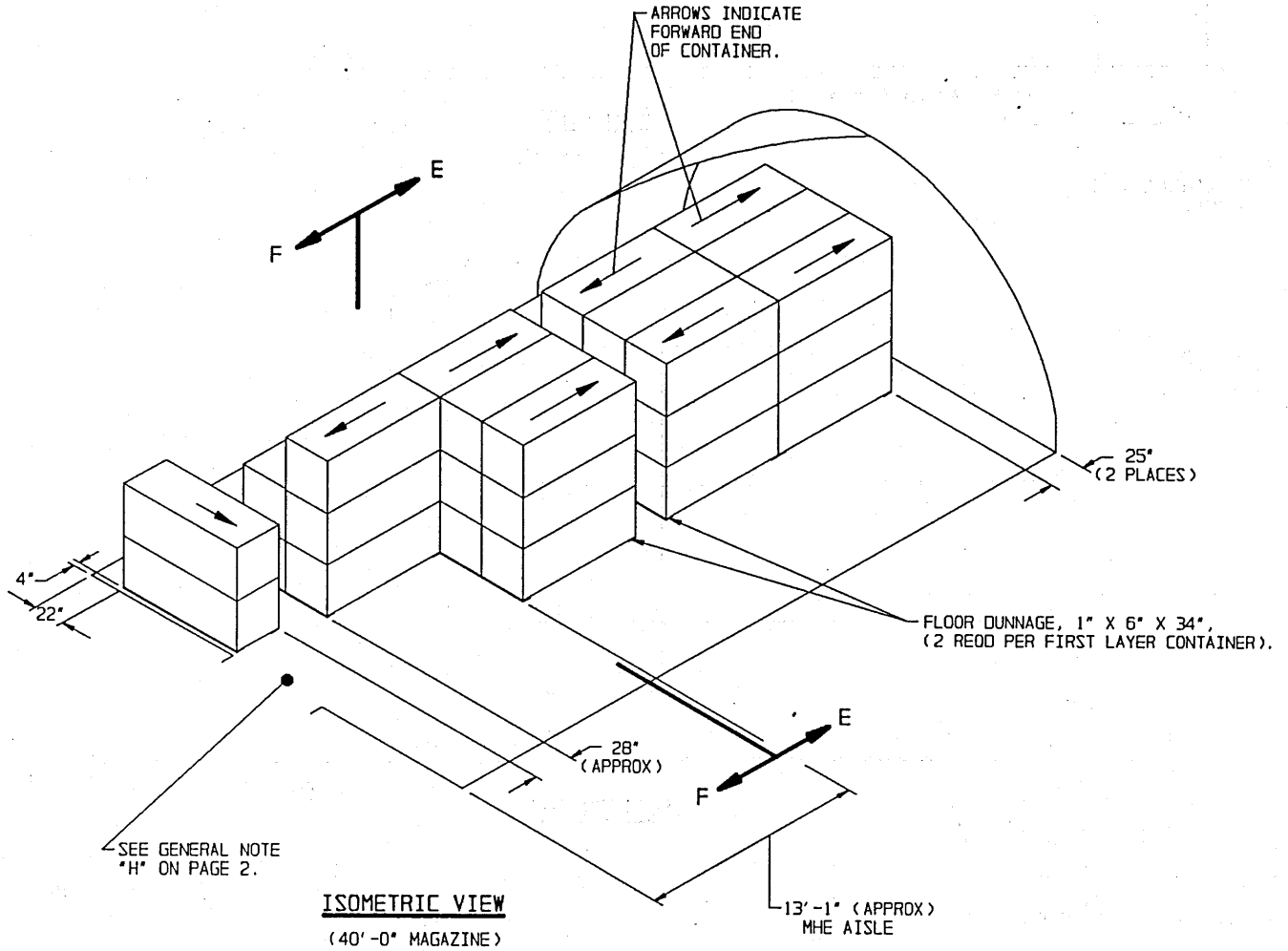
FLOOR DUNNAGE, 1" X 6" X 34", (2 REOD PER FIRST LAYER CONTAINER).



**STORAGE IN 40'-0" MAGAZINE**

(12'-1-3/4" HIGH)

ITEM QUANTITY  
CONTAINER - - - - - 44



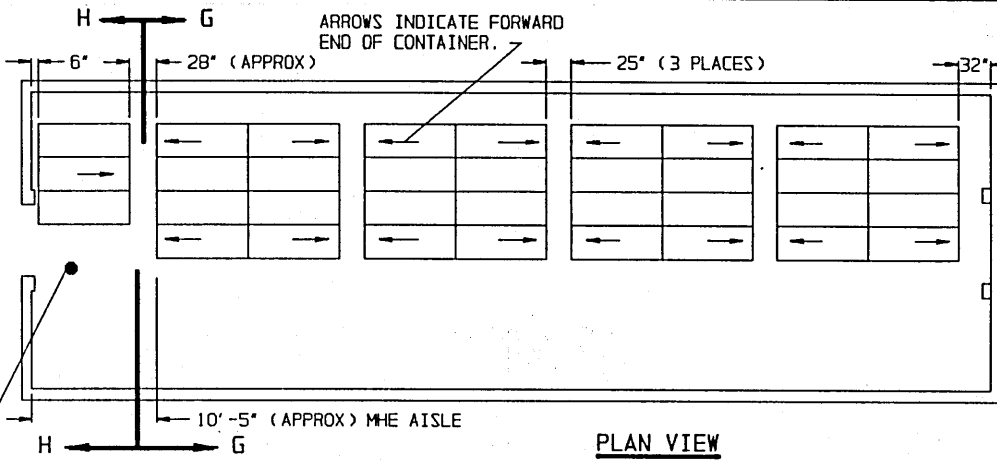
| BILL OF MATERIAL (PER FIRST LAYER CONTAINER) |             |            |
|--|-------------|------------|
| LUMBER                                       | LINEAR FEET | BOARD FEET |
| 1" X 6"                                      | 5.67        | 2.83       |

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

**STORAGE IN 80'-0" MAGAZINE**

(11'-0" HIGH)

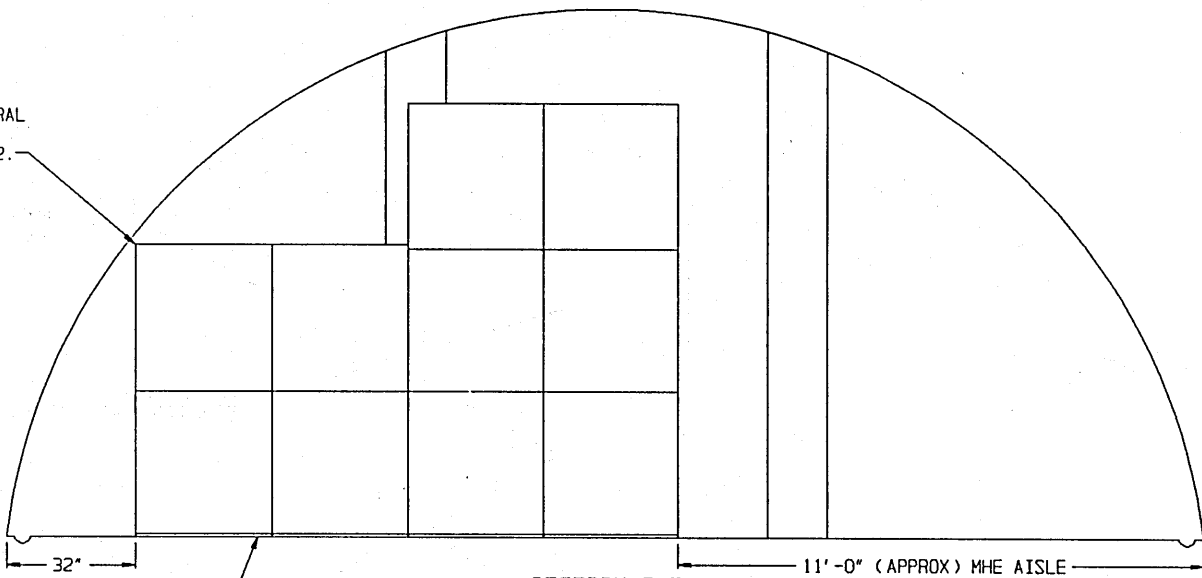
| ITEM                | QUANTITY |
|---------------------|----------|
| CONTAINER - - - - - | 87       |



**PLAN VIEW**  
(80'-0" MAGAZINE)

SEE GENERAL NOTE "H" ON PAGE 2.

SEE GENERAL NOTE "F" ON PAGE 2.

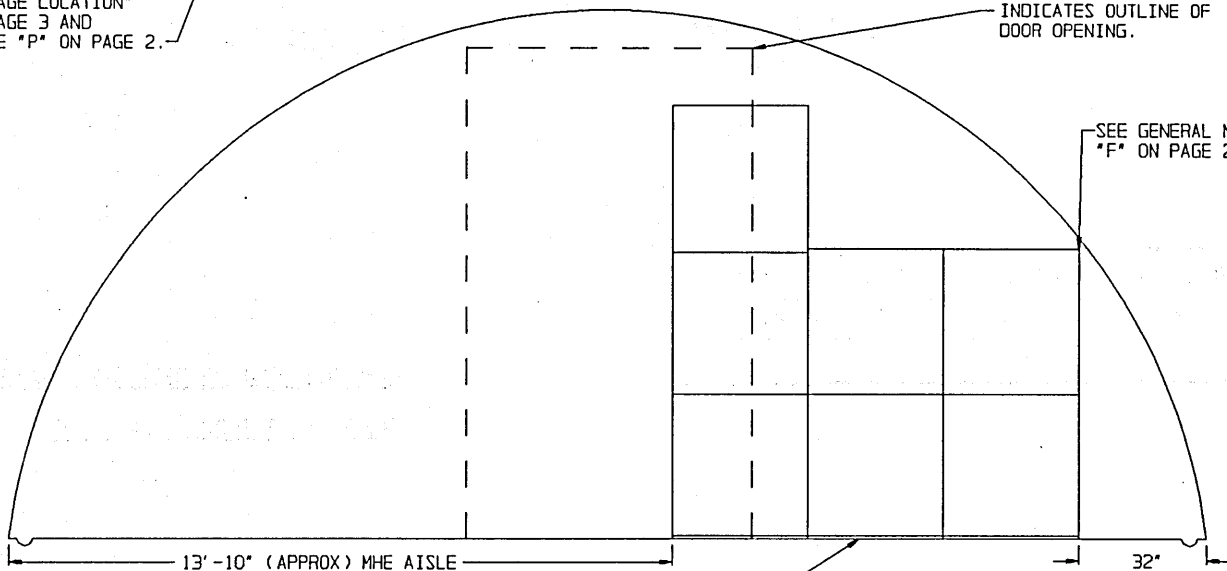


**SECTION G-G**

FLOOR DUNNAGE, 1" X 6" X 34", (2 REOD PER FIRST LAYER CONTAINER). SEE THE "FLOOR DUNNAGE LOCATION" DETAIL ON PAGE 3 AND GENERAL NOTE "P" ON PAGE 2.

INDICATES OUTLINE OF DOOR OPENING.

SEE GENERAL NOTE "F" ON PAGE 2.



**SECTION H-H**

FLOOR DUNNAGE, 1" X 6" X 34", (2 REOD PER FIRST LAYER CONTAINER).

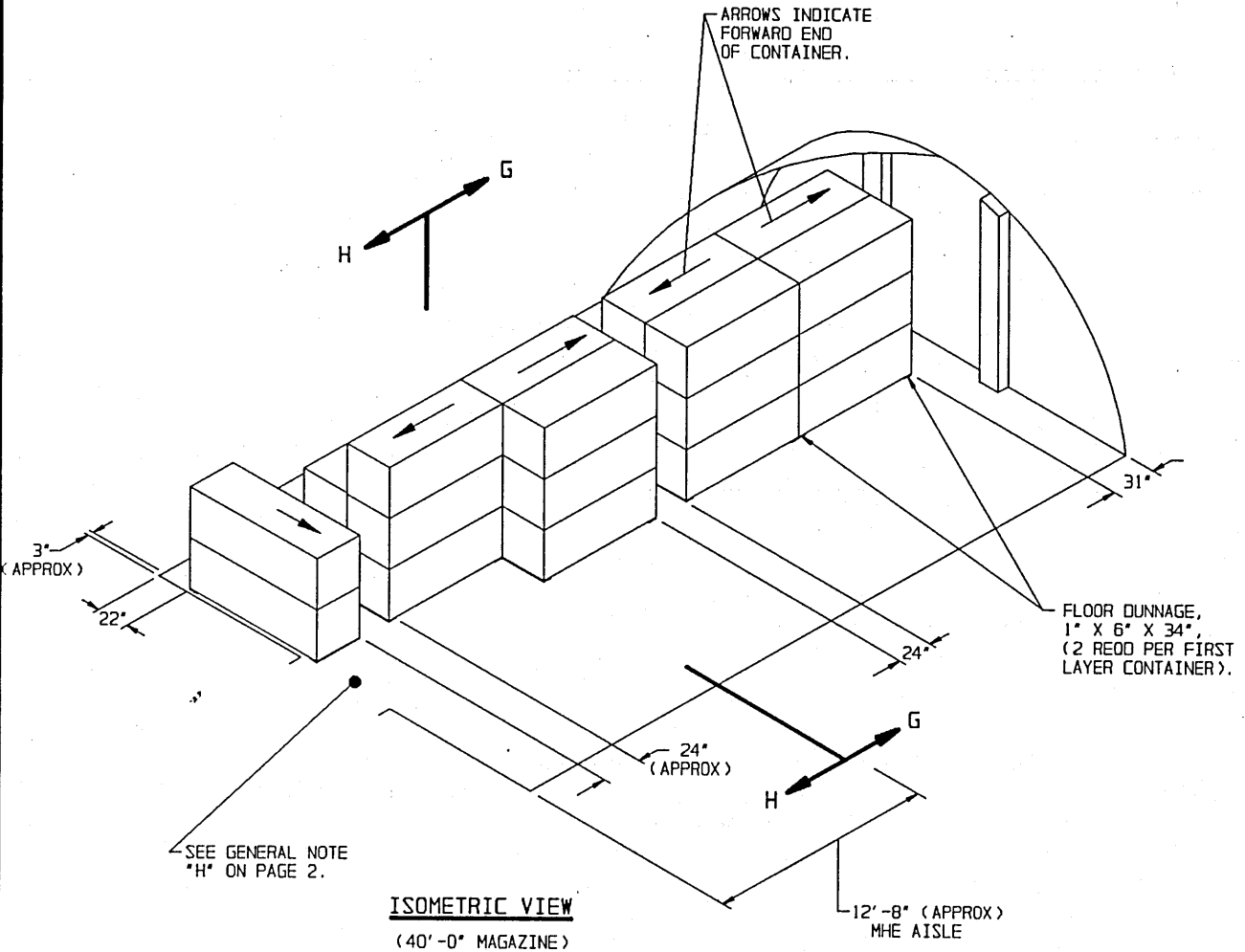
**STORAGE IN 40'-0" MAGAZINE**

(11'-0" HIGH)

ITEM

QUANTITY

CONTAINER ----- 39



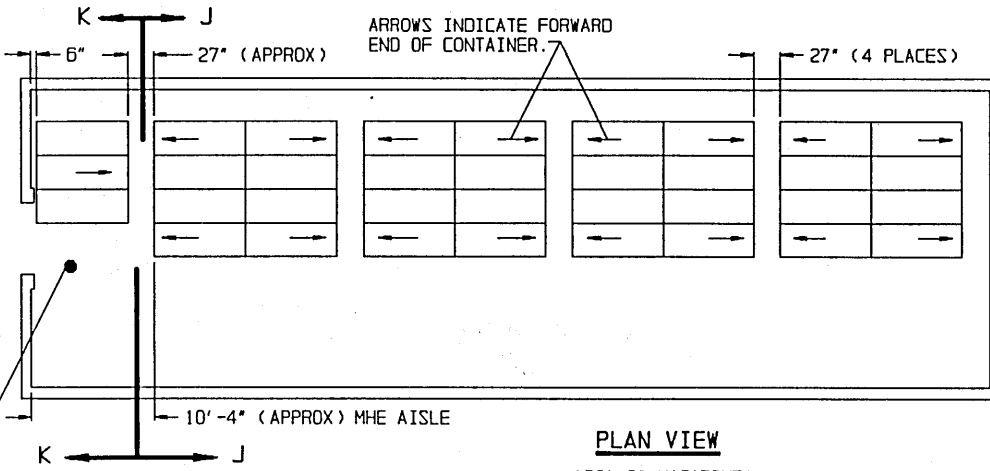
| BILL OF MATERIAL (PER FIRST LAYER CONTAINER) |             |            |
|--|-------------|------------|
| LUMBER                                       | LINEAR FEET | BOARD FEET |
| 1" X 6"                                      | 5.67        | 2.83       |

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

**STORAGE IN 80'-0" MAGAZINE**

(10'-0" HIGH)

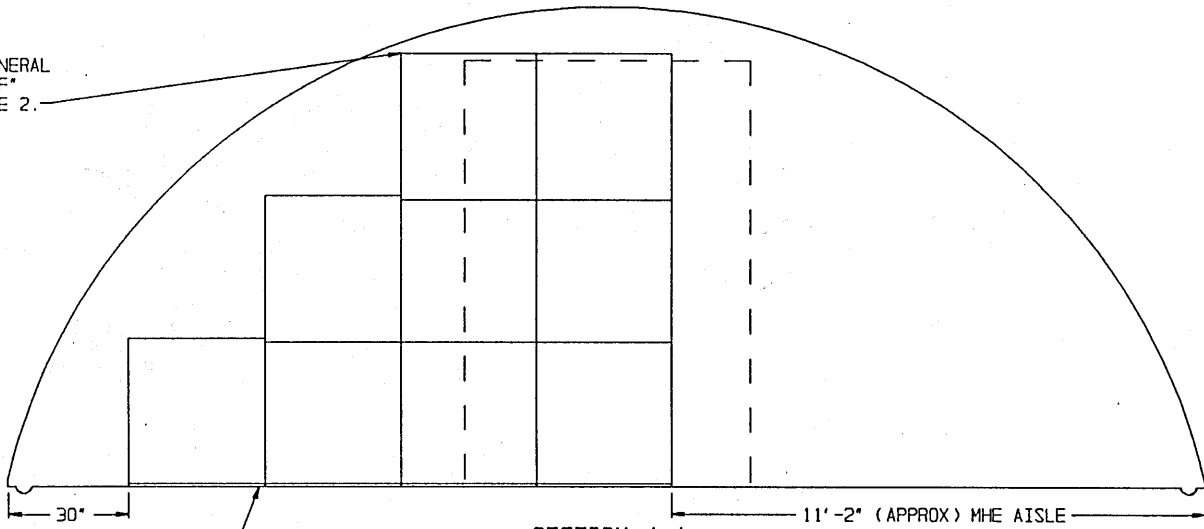
| ITEM      | QUANTITY |
|-----------|----------|
| CONTAINER | ----- 78 |



**PLAN VIEW**  
(80'-0" MAGAZINE)

SEE GENERAL NOTE "H" ON PAGE 2.

SEE GENERAL NOTE "F" ON PAGE 2.

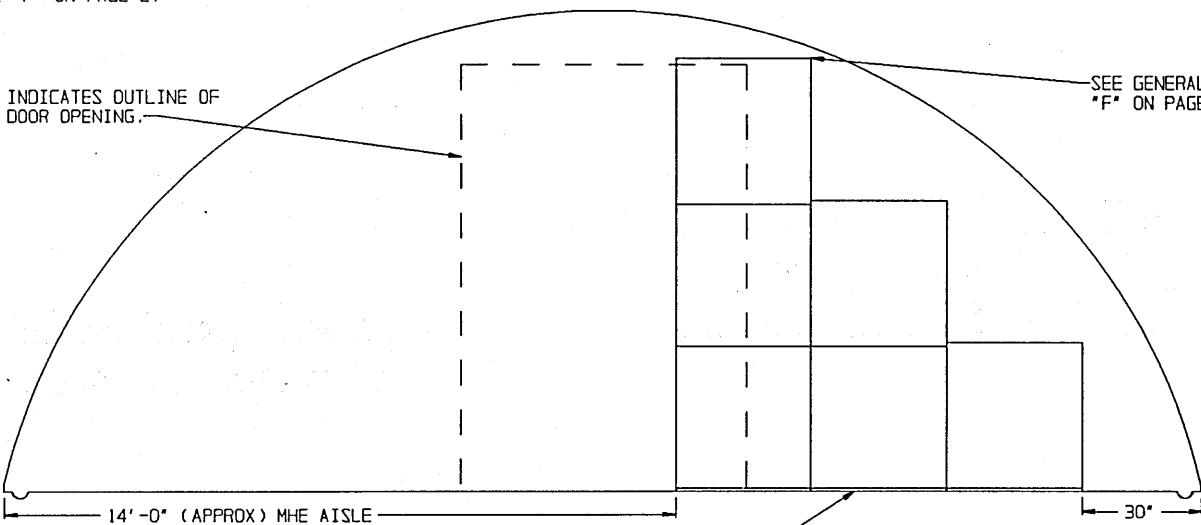


**SECTION J-J**

FLOOR DUNNAGE, 1" X 6" X 34", (2 REOD PER FIRST LAYER CONTAINER). SEE THE "FLOOR DUNNAGE LOCATION" DETAIL ON PAGE 3 AND GENERAL NOTE "P" ON PAGE 2.

INDICATES OUTLINE OF DOOR OPENING.

SEE GENERAL NOTE "F" ON PAGE 2.



**SECTION K-K**

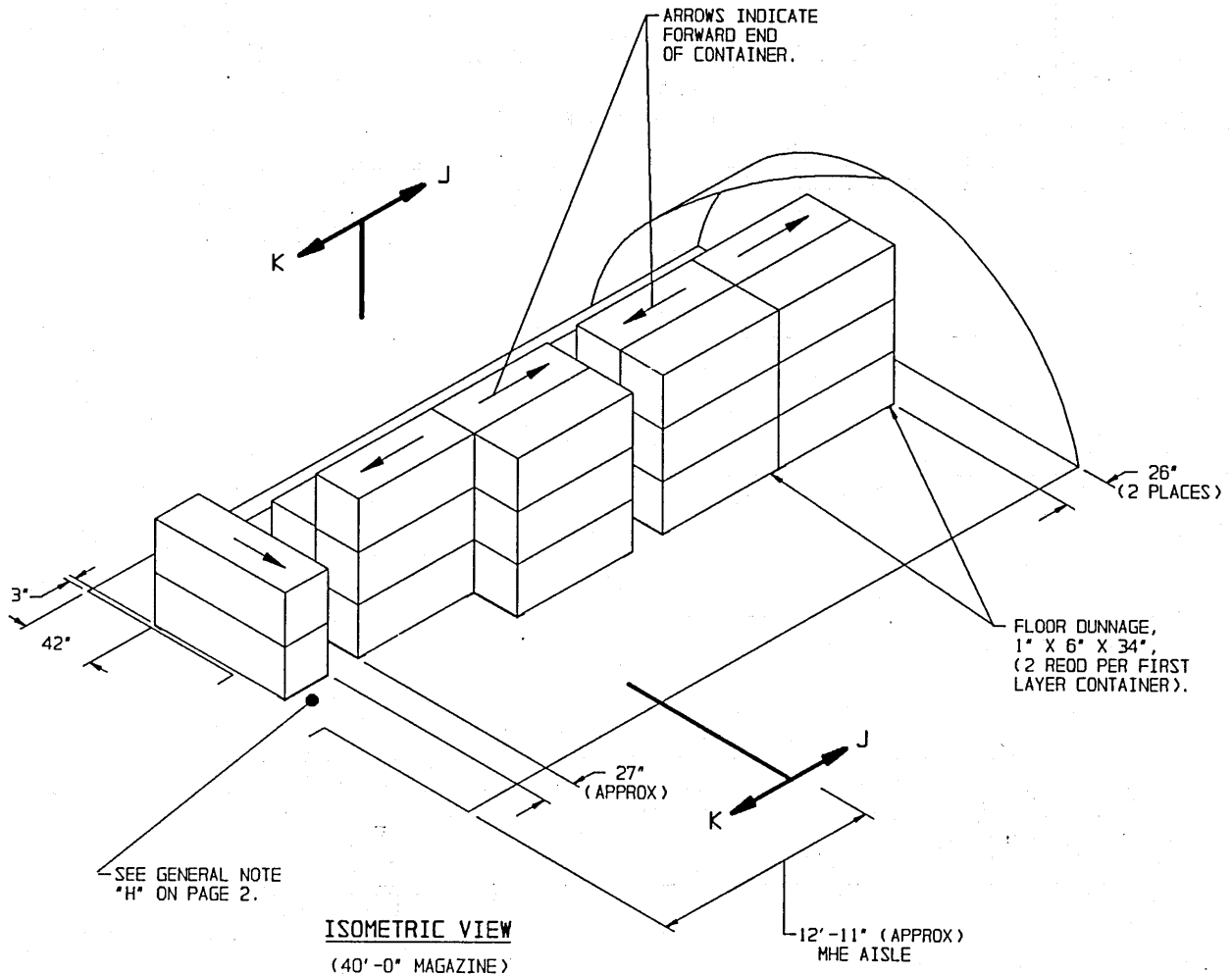
FLOOR DUNNAGE, 1" X 6" X 34", (2 REOD PER FIRST LAYER CONTAINER).

**STORAGE IN 40'-0" MAGAZINE**

(10'-0" HIGH)

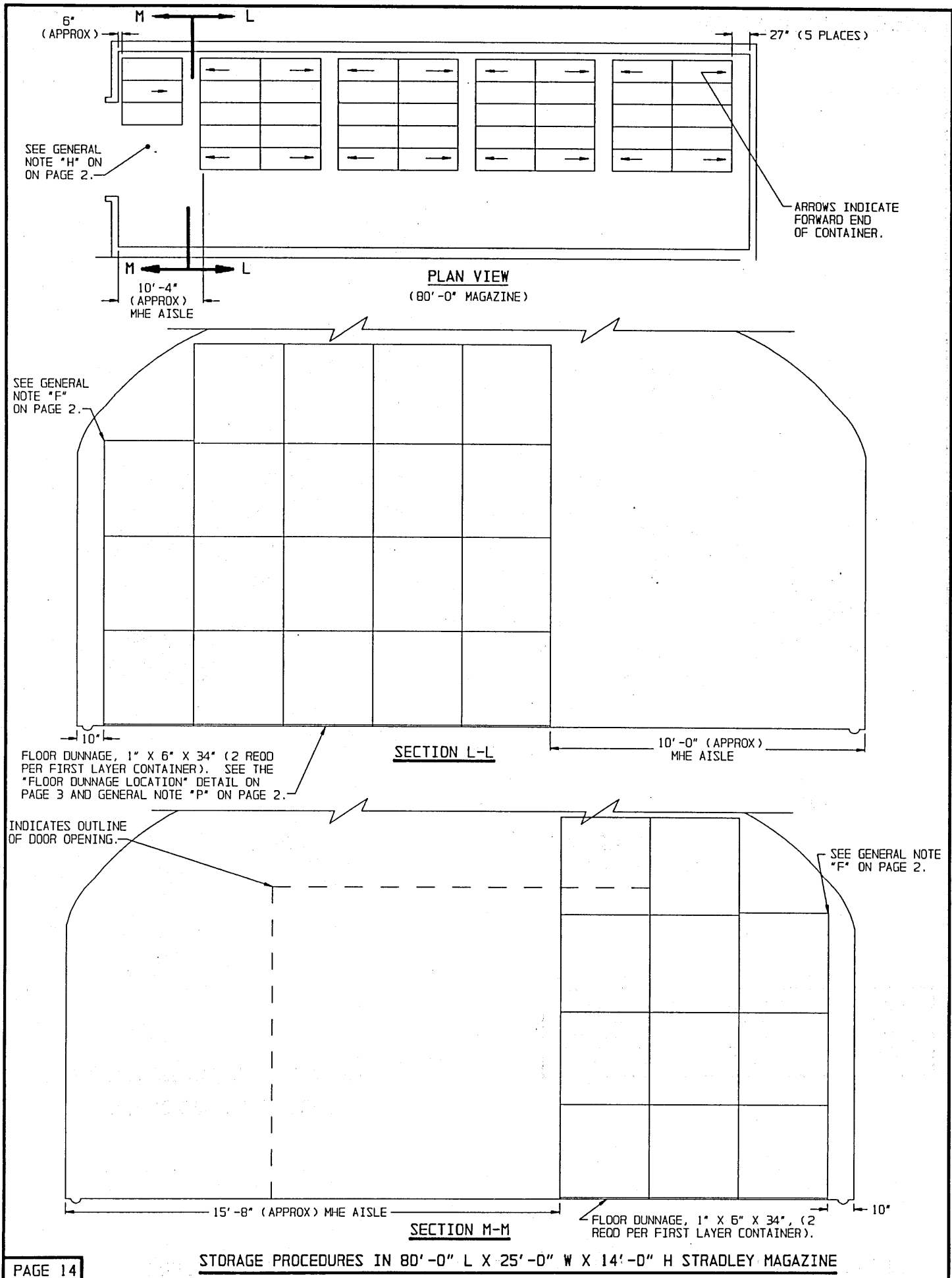
ITEM QUANTITY

CONTAINER ----- 35



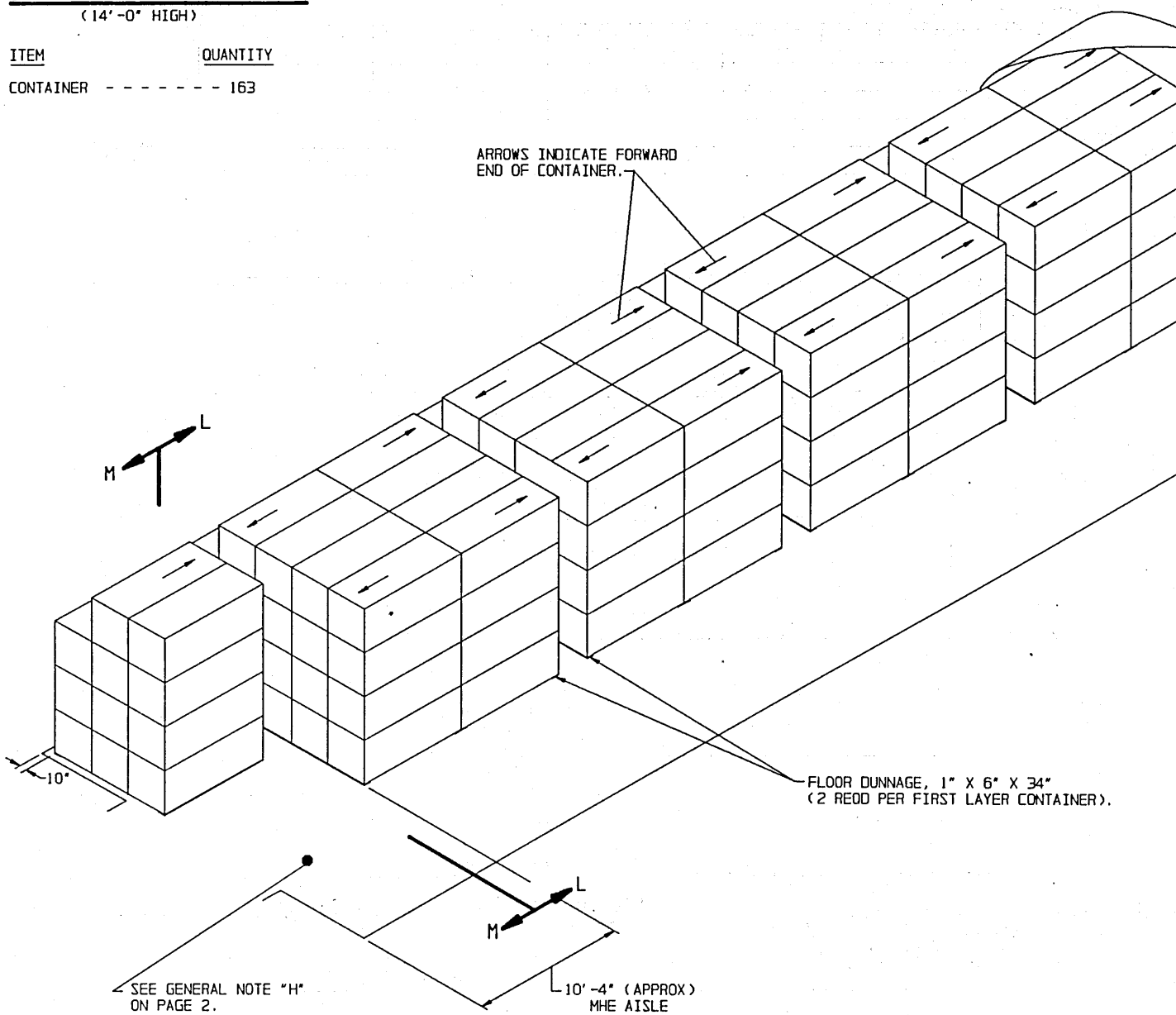
| BILL OF MATERIAL (PER FIRST LAYER CONTAINER) |             |            |
|--|-------------|------------|
| LUMBER                                       | LINEAR FEET | BOARD FEET |
| 1" X 6"                                      | 5.67        | 2.83       |

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



**STORAGE IN 80'-0" MAGAZINE**  
(14'-0" HIGH)

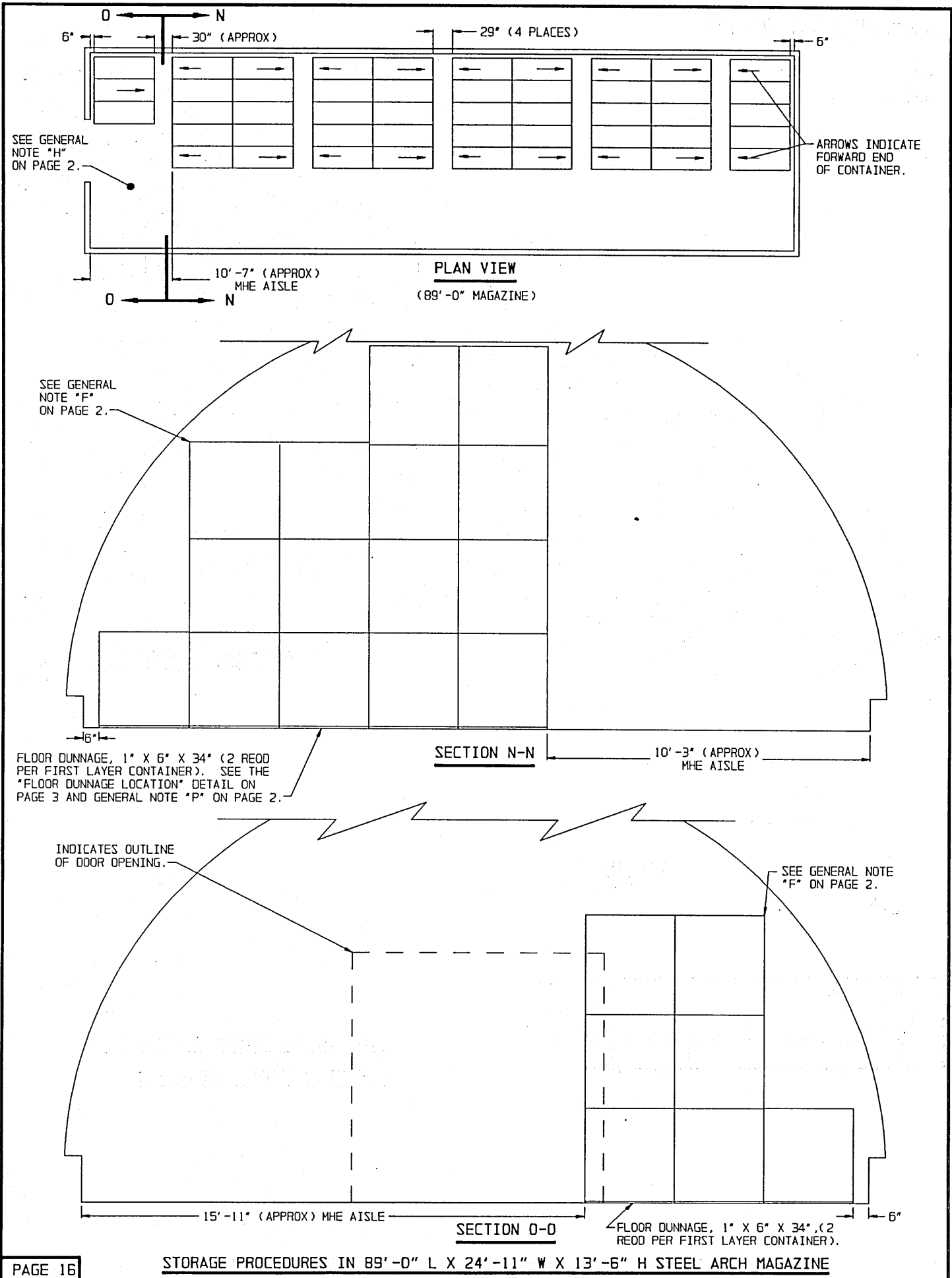
ITEM                      QUANTITY  
CONTAINER - - - - - 163



**ISOMETRIC VIEW**  
(80'-0" MAGAZINE)

| BILL OF MATERIAL (PER FIRST LAYER CONTAINER) |             |            |
|--|-------------|------------|
| LUMBER                                       | LINEAR FEET | BOARD FEET |
| 1" X 6"                                      | 5.67        | 2.83       |

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



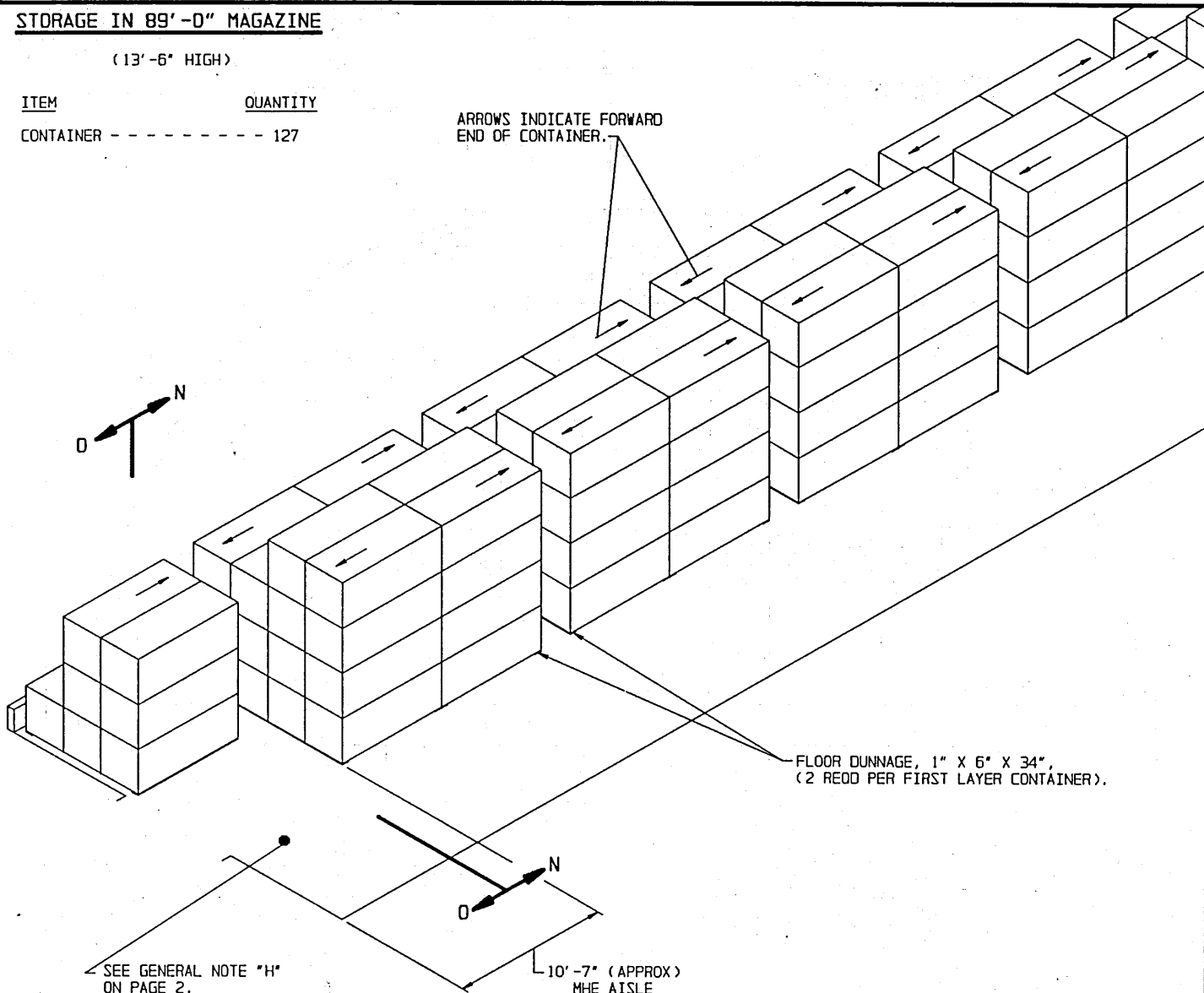


**STORAGE IN 89'-0" MAGAZINE**

(13'-6" HIGH)

| ITEM                | QUANTITY |
|---------------------|----------|
| CONTAINER - - - - - | 127      |

ARROWS INDICATE FORWARD END OF CONTAINER.



SEE GENERAL NOTE "H" ON PAGE 2.

10'-7" (APPROX) MHE AISLE

**ISOMETRIC VIEW**  
(89'-0" MAGAZINE)

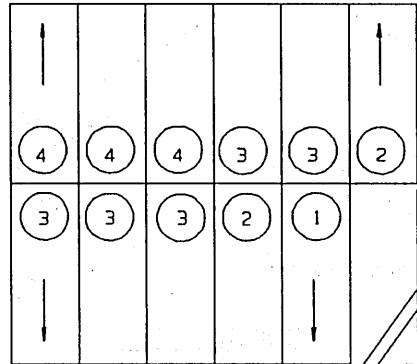
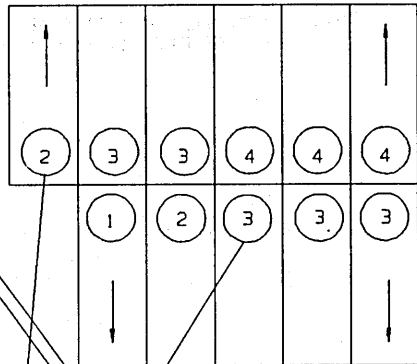
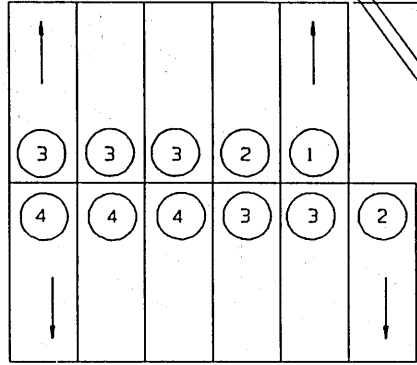
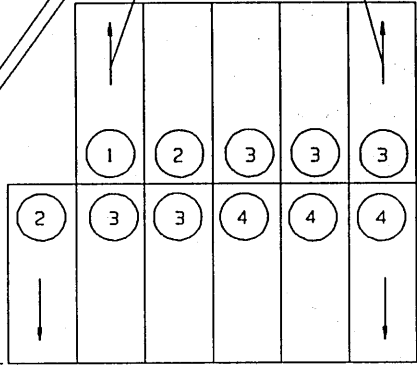
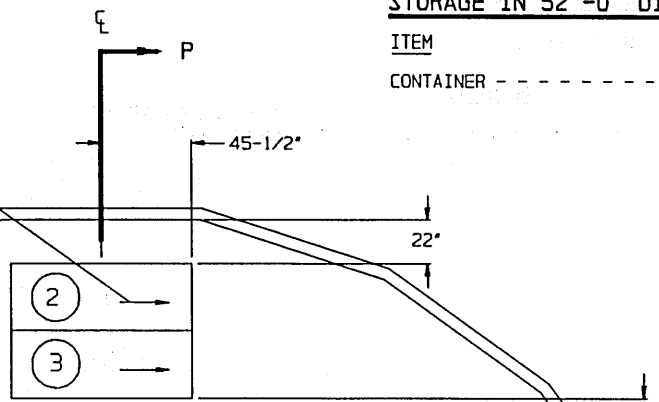
| BILL OF MATERIAL (PER FIRST LAYER CONTAINER) |             |            |
|--|-------------|------------|
| LUMBER                                       | LINEAR FEET | BOARD FEET |
| 1" X 6"                                      | 5.67        | 2.83       |

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

**STORAGE IN 52'-0" DIA MAGAZINE**

| ITEM                | QUANTITY |
|---------------------|----------|
| CONTAINER - - - - - | 133      |

ARROWS INDICATE FORWARD END OF CONTAINER.



THE CIRCLED NUMBERS INDICATE THE LAYERS HIGH THAT CONTAINERS ARE STACKED.

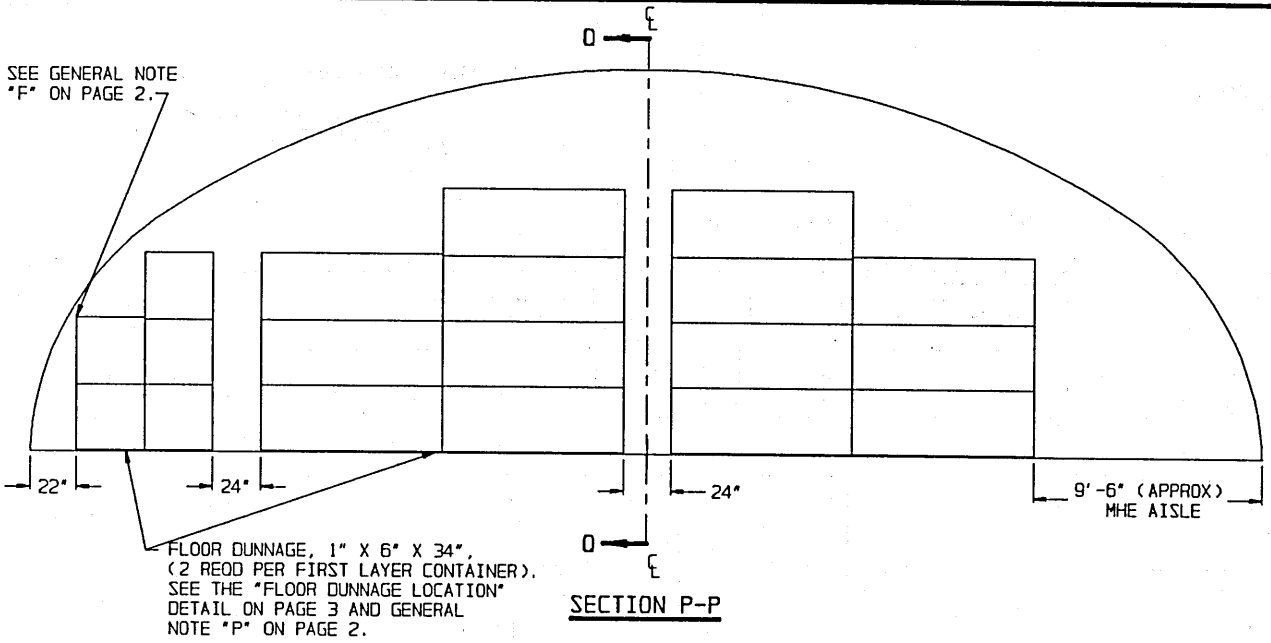
10'-6" (APPROX) MHE AISLE

SEE GENERAL NOTE "H" ON PAGE 2.

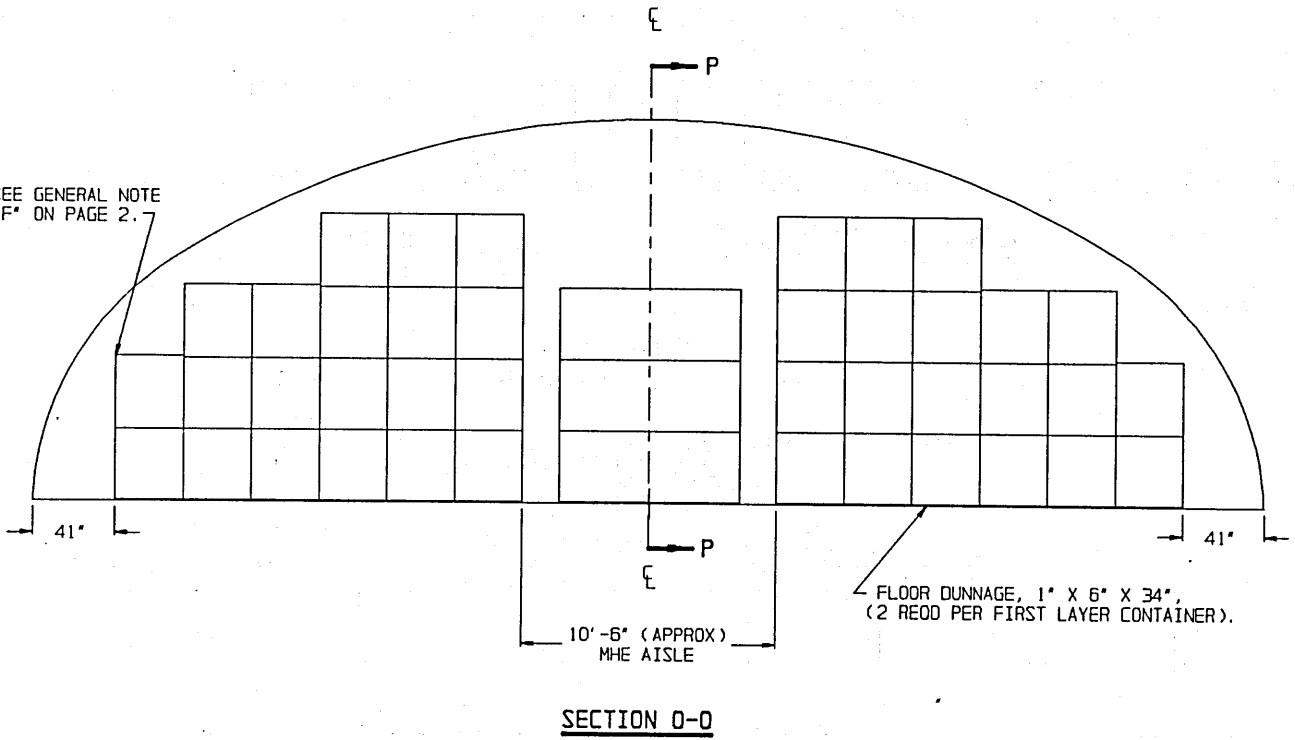
**PLAN VIEW**

(52' DIA MAGAZINE)

SEE GENERAL NOTE  
"F" ON PAGE 2.

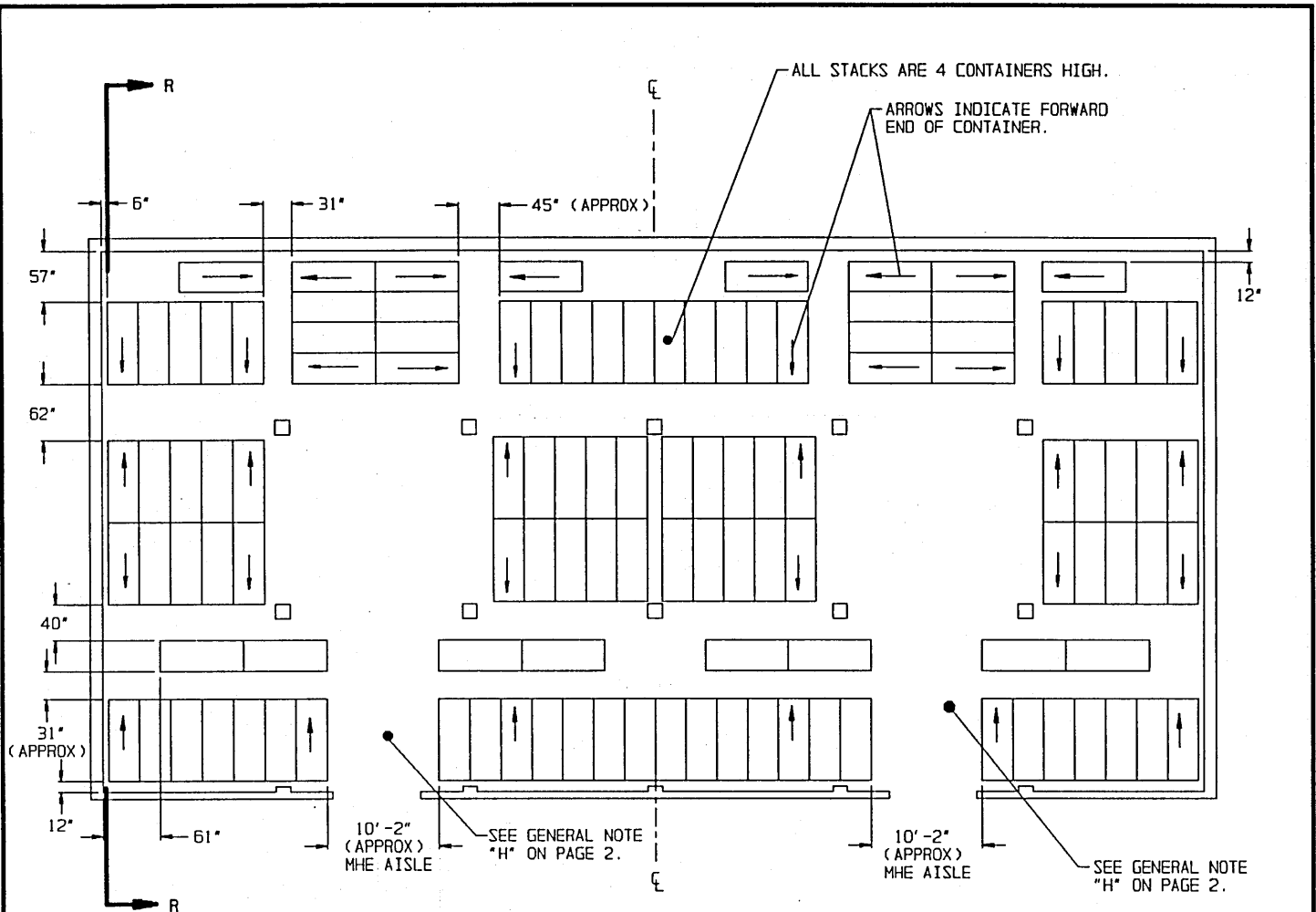


SEE GENERAL NOTE  
"F" ON PAGE 2.



| BILL OF MATERIAL (PER FIRST LAYER CONTAINER) |             |            |
|--|-------------|------------|
| LUMBER                                       | LINEAR FEET | BOARD FEET |
| 1" X 6"                                      | 5.67        | 2.83       |

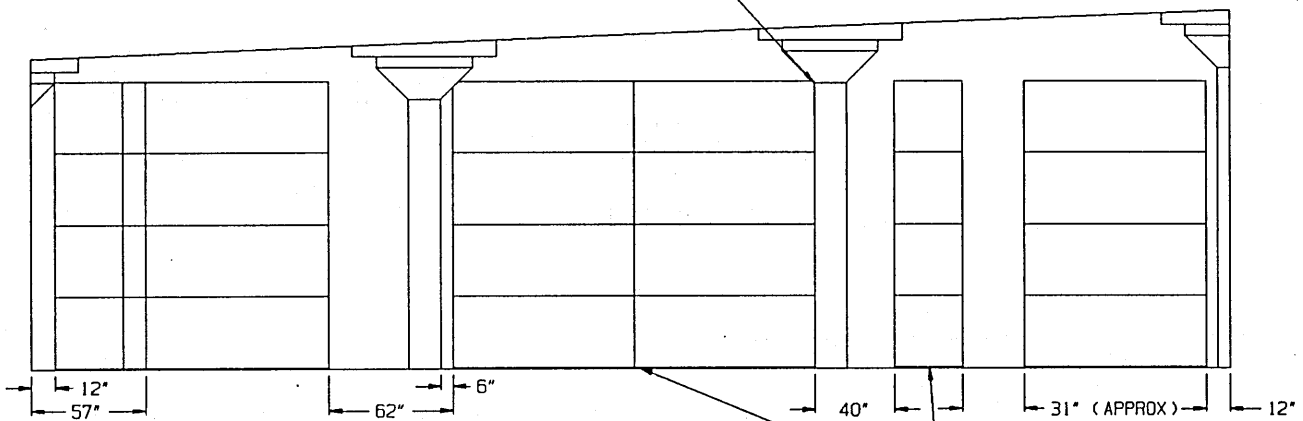
FOR "GENERAL NOTES" AND "MATERIAL  
SPECIFICATIONS", SEE PAGE 2.



**PLAN VIEW**

(100'-8" L X 50'-0" W MAGAZINE)

CONTAINERS IN THE TOP LAYER  
WILL BE OMITTED AS REQUIRED  
TO CLEAR ROOF SUPPORT CAPS  
AT TOP OF COLUMNS.



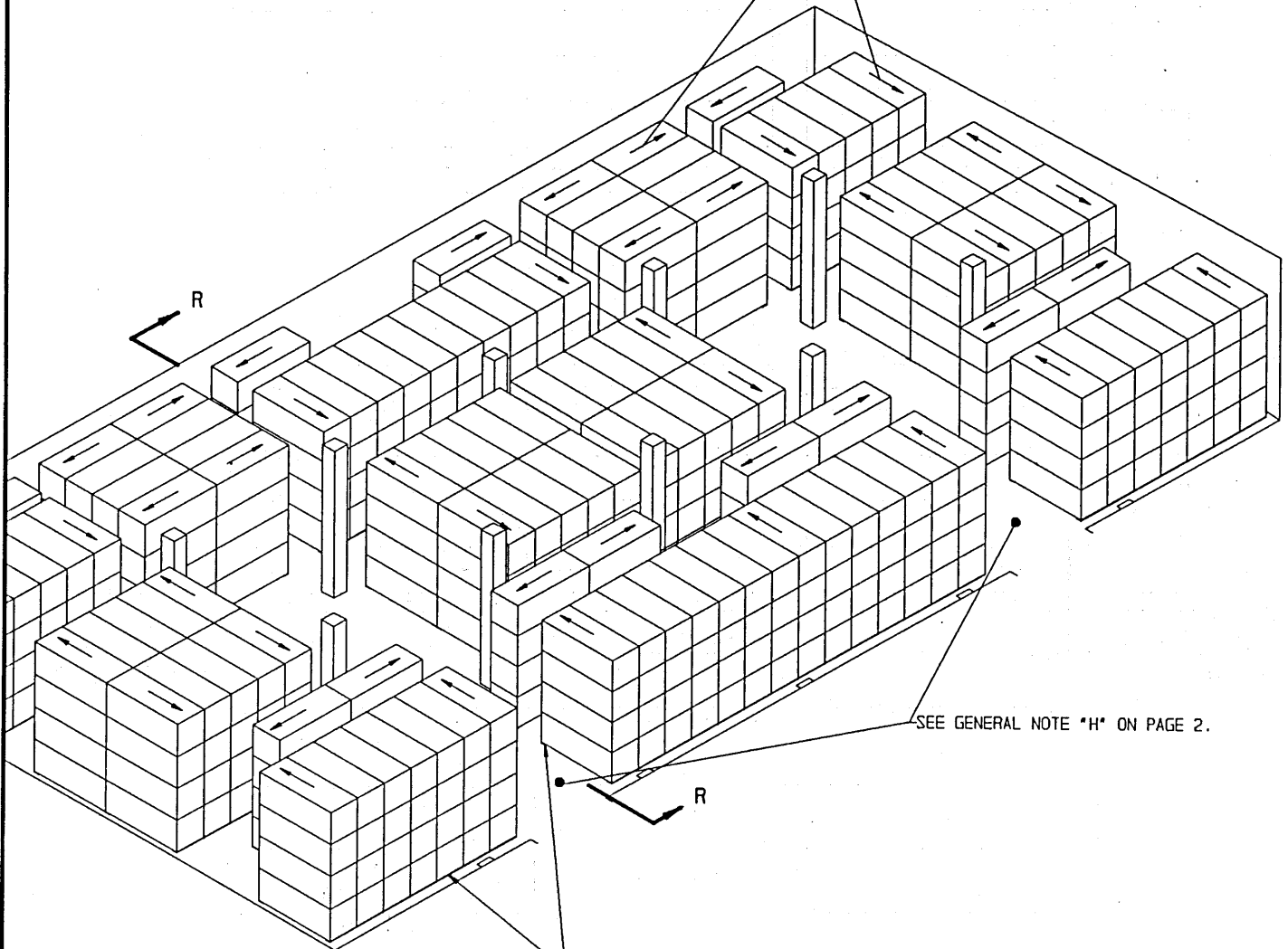
**SECTION R-R**

FLOOR DUNNAGE, 1" X 6" X 34".  
(2 REOD PER FIRST LAYER CONTAINER).  
SEE THE "FLOOR DUNNAGE LOCATION"  
DETAIL ON PAGE 3 AND GENERAL NOTE  
"P" ON PAGE 2.

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

| ITEM                | QUANTITY |
|---------------------|----------|
| CONTAINER - - - - - | 240      |

ARROWS INDICATE FORWARD END OF CONTAINER.



SEE GENERAL NOTE "H" ON PAGE 2.

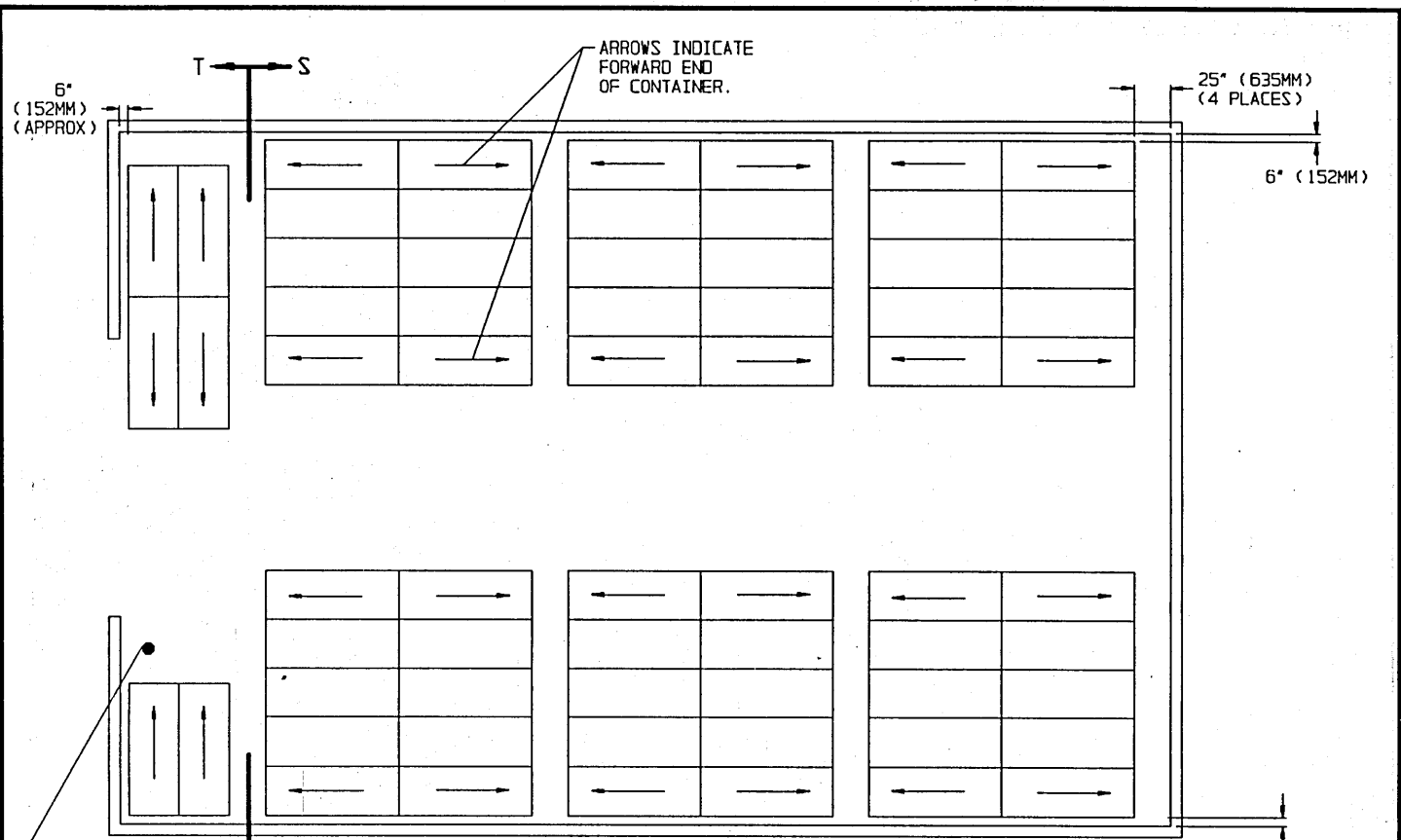
FLOOR DUNNAGE, 1" X 6" X 34",  
(2 REOD PER FIRST LAYER CONTAINER).

**ISOMETRIC VIEW**

(100'-8" L X 50'-0" W MAGAZINE)

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

| BILL OF MATERIAL (PER FIRST LAYER CONTAINER) |             |            |
|--|-------------|------------|
| LUMBER                                       | LINEAR FEET | BOARD FEET |
| 1" X 6"                                      | 5.67        | 2.83       |



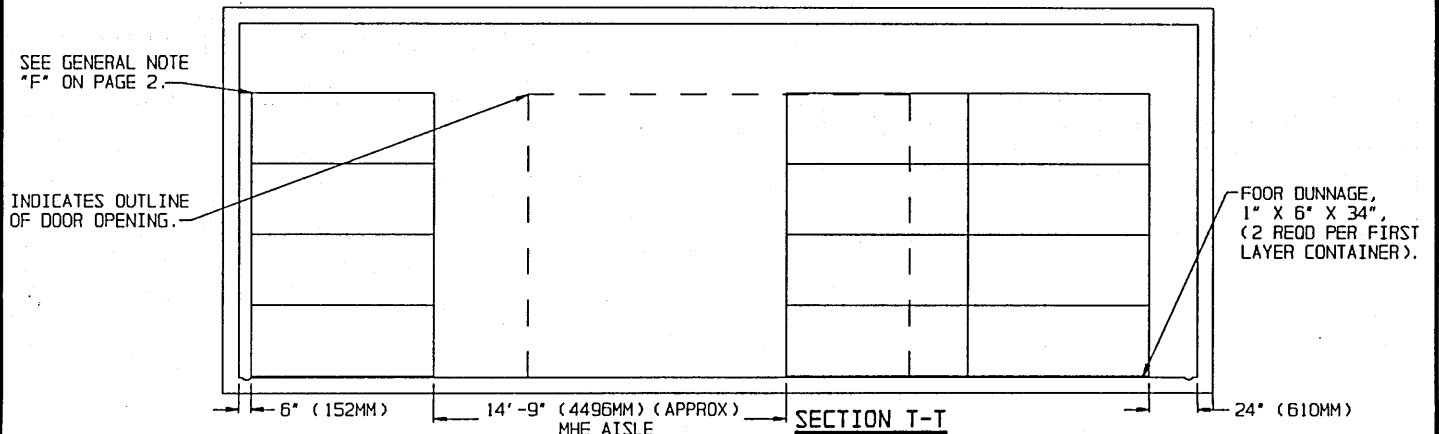
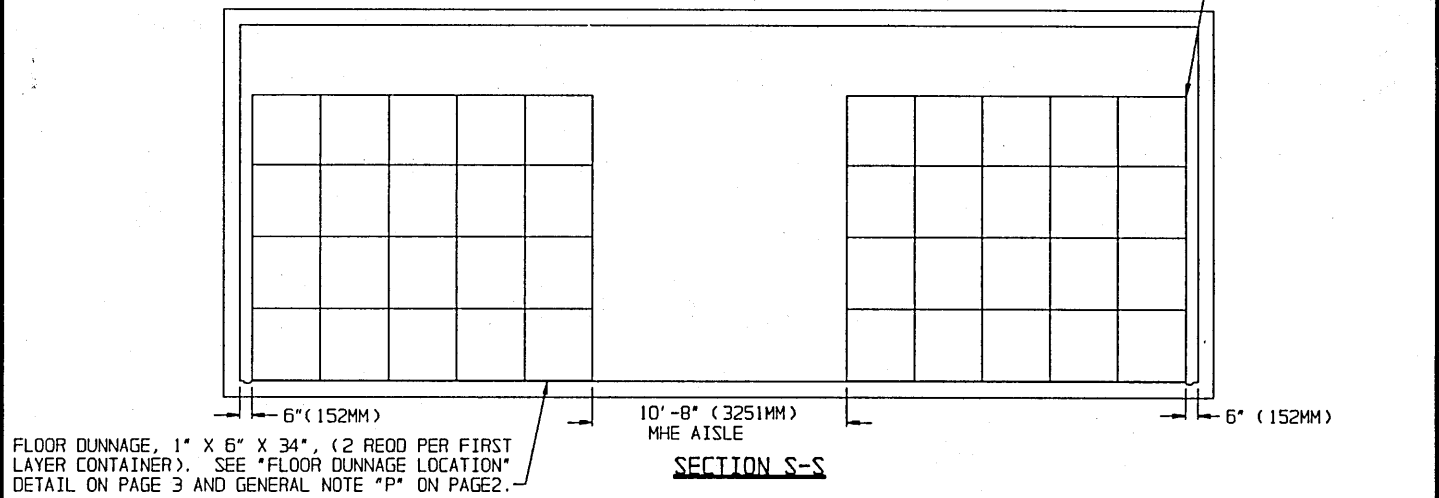
SEE GENERAL NOTE "H" ON PAGE 2.

T ← S

**PLAN VIEW**  
(TYPE II BUNKER MAGAZINE)

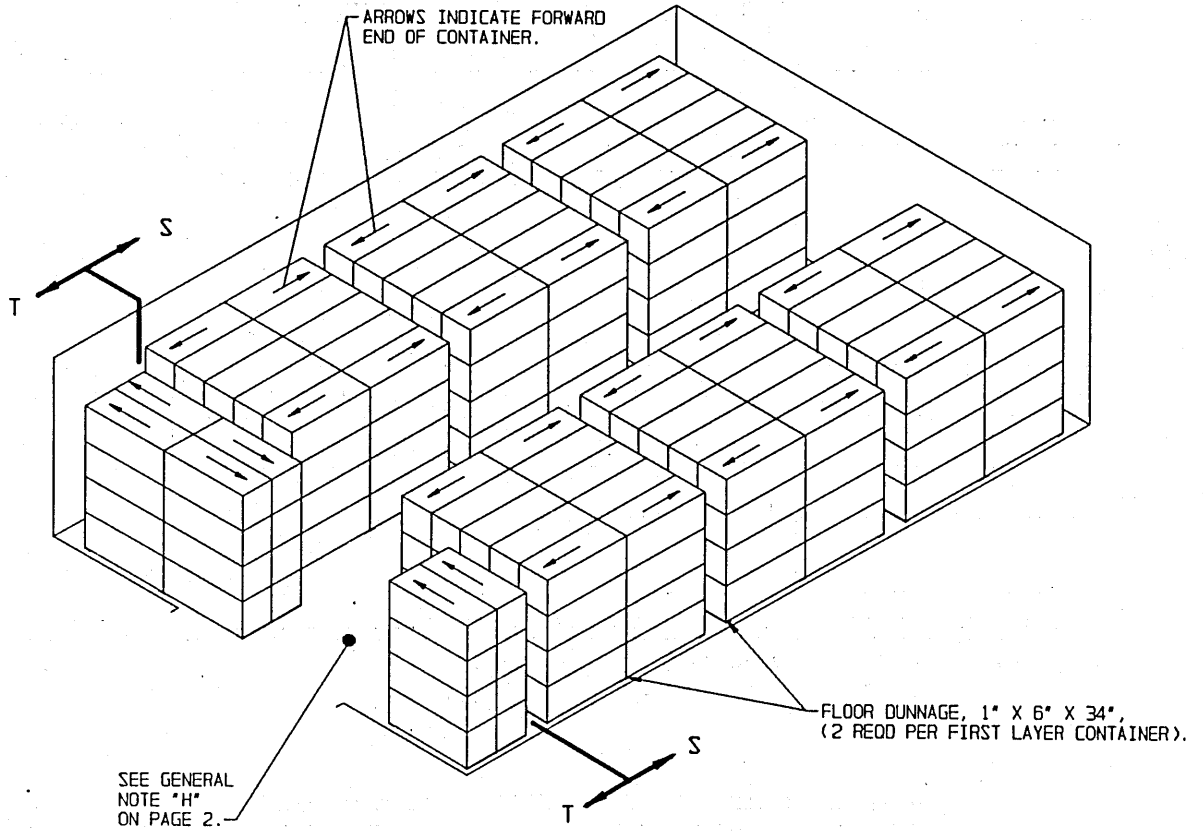
6" (152MM)

SEE GENERAL NOTE "F" ON PAGE 2.



**STORAGE IN TYPE II BUNKER MAGAZINE**

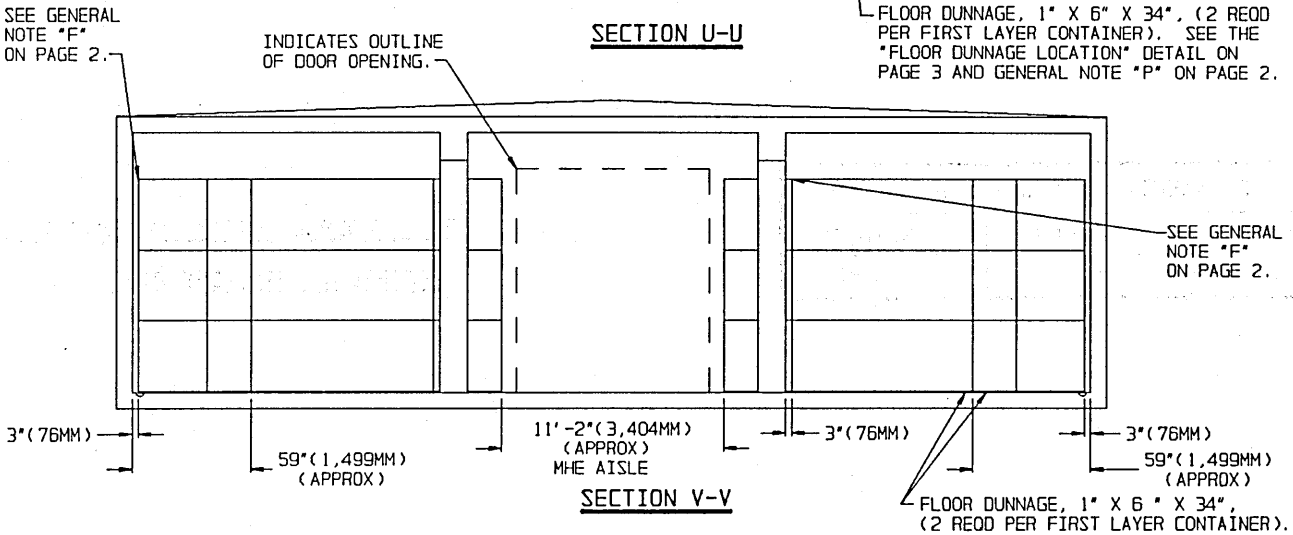
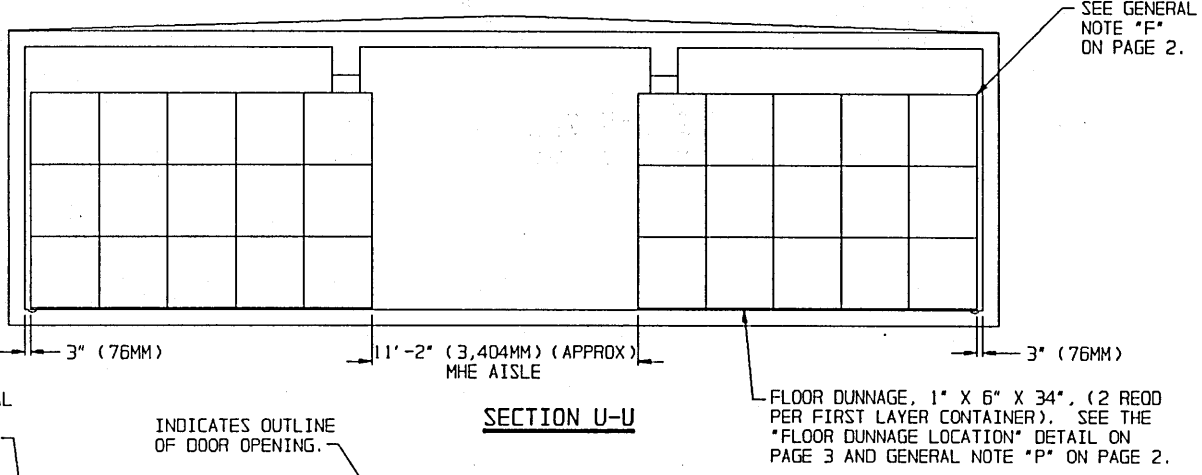
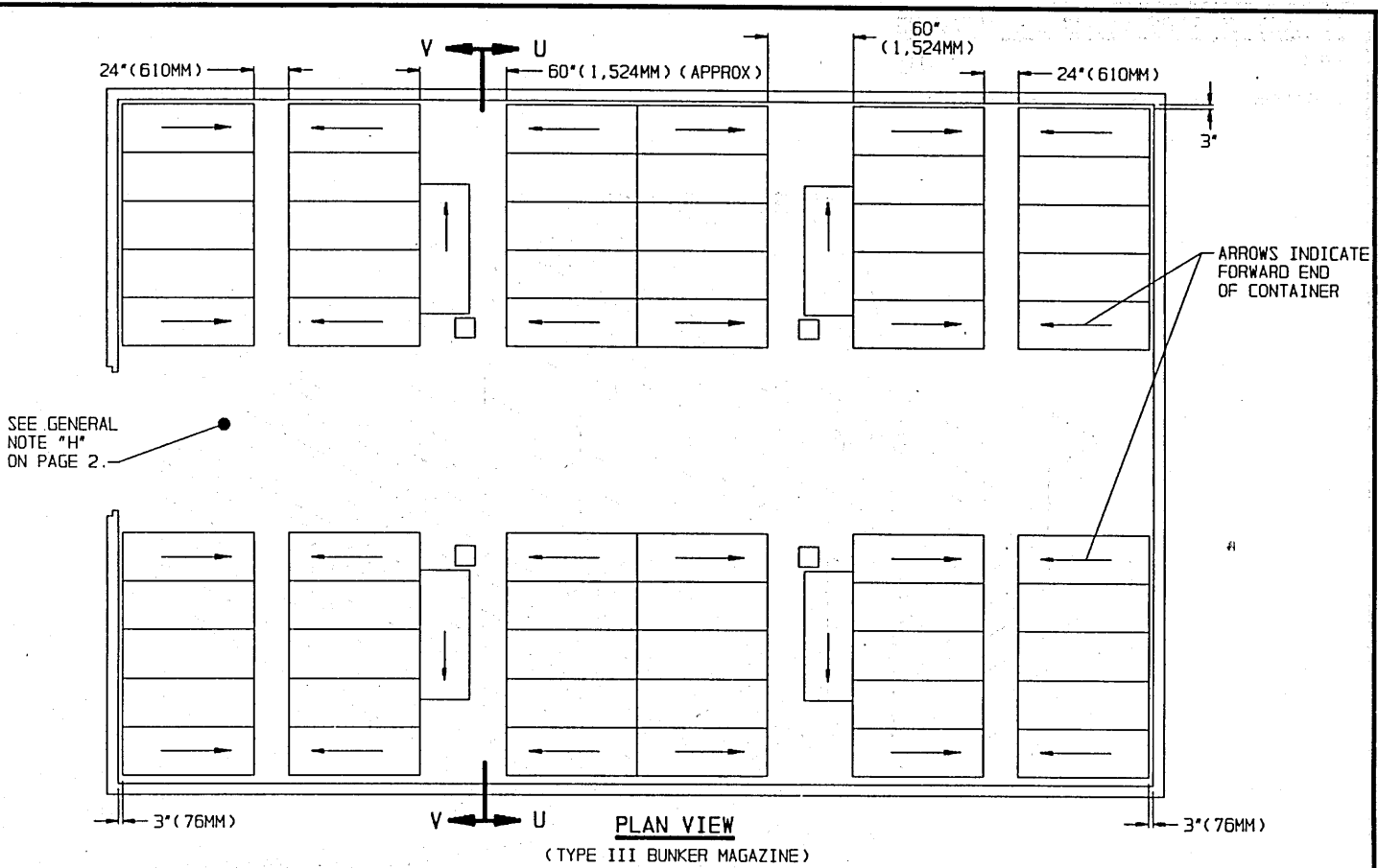
ITEM QUANTITY  
CONTAINER - - - - - 264



**ISOMETRIC VIEW**  
(TYPE II BUNKER MAGAZINE)

| BILL OF MATERIAL (PER FIRST LAYER CONTAINER) |             |            |
|--|-------------|------------|
| LUMBER                                       | LINEAR FEET | BOARD FEET |
| 1" X 6"                                      | 5.67        | 2.83       |

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



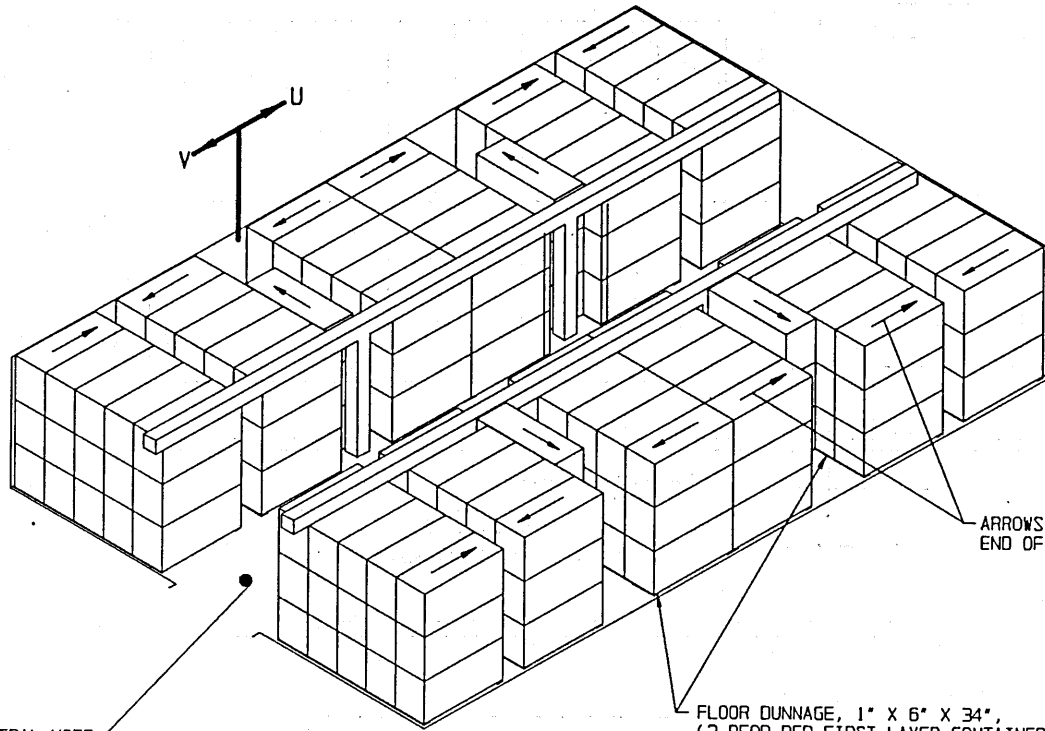


**STORAGE IN TYPE III BUNKER MAGAZINE**

ITEM

QUANTITY

CONTAINER - - - - - 192



ARROWS INDICATE FORWARD END OF CONTAINER.

FLOOR DUNNAGE, 1" X 6" X 34",  
(2 REOD PER FIRST LAYER CONTAINER).

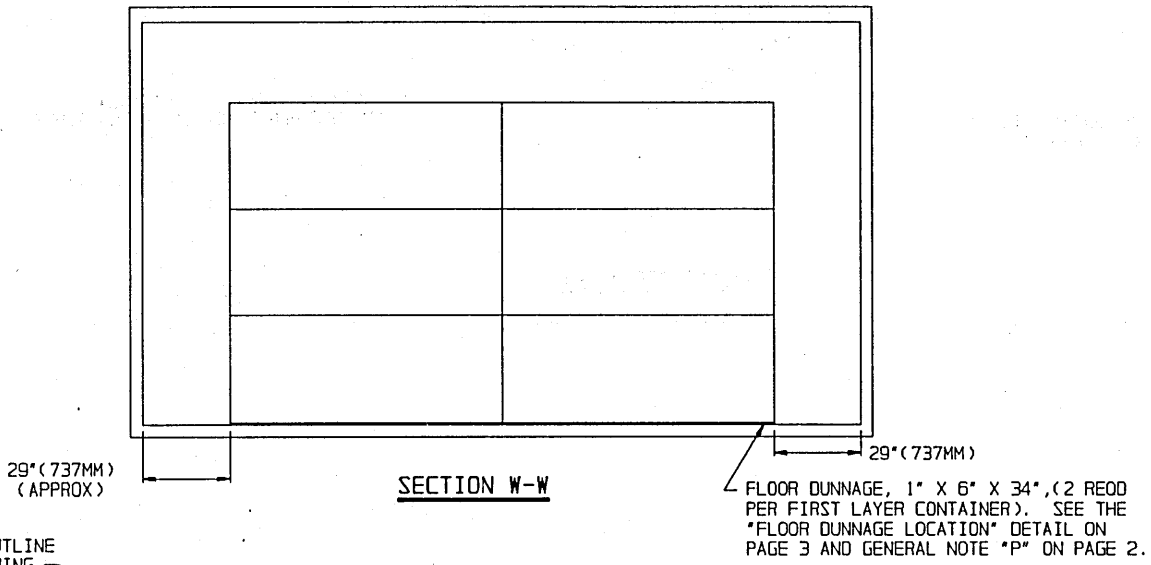
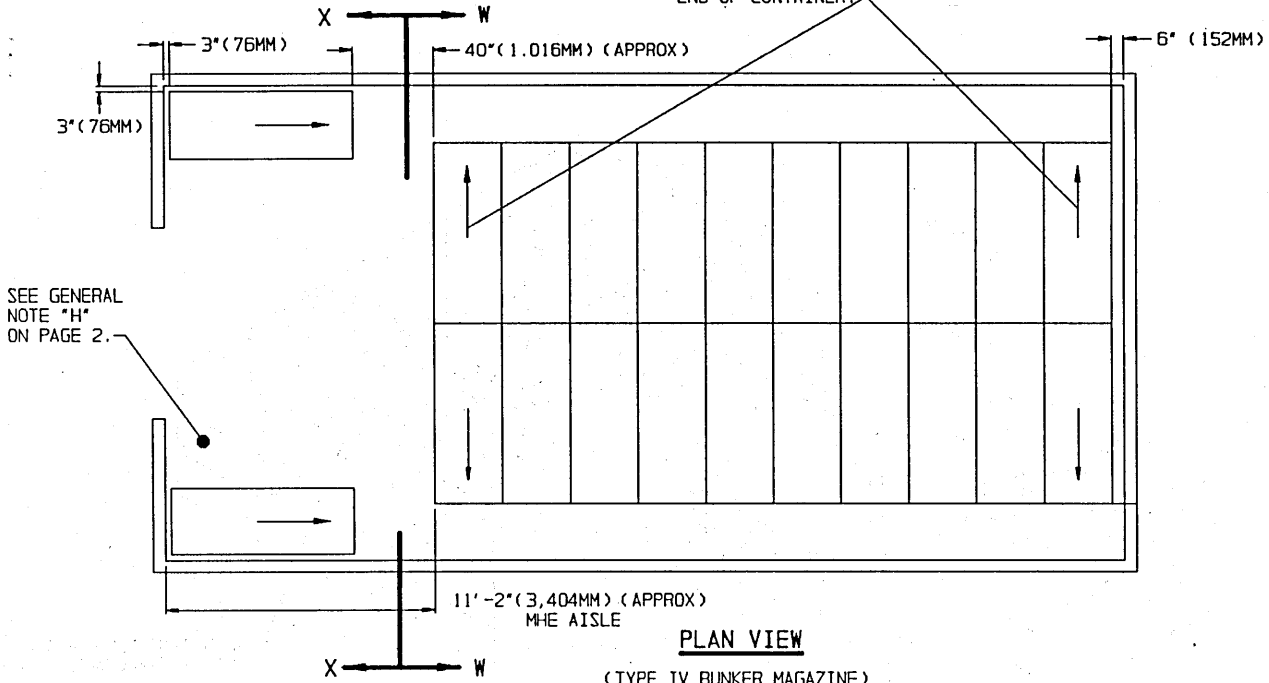
SEE GENERAL NOTE  
"H" ON PAGE 2.

**ISOMETRIC VIEW**  
(TYPE III BUNKER MAGAZINE)

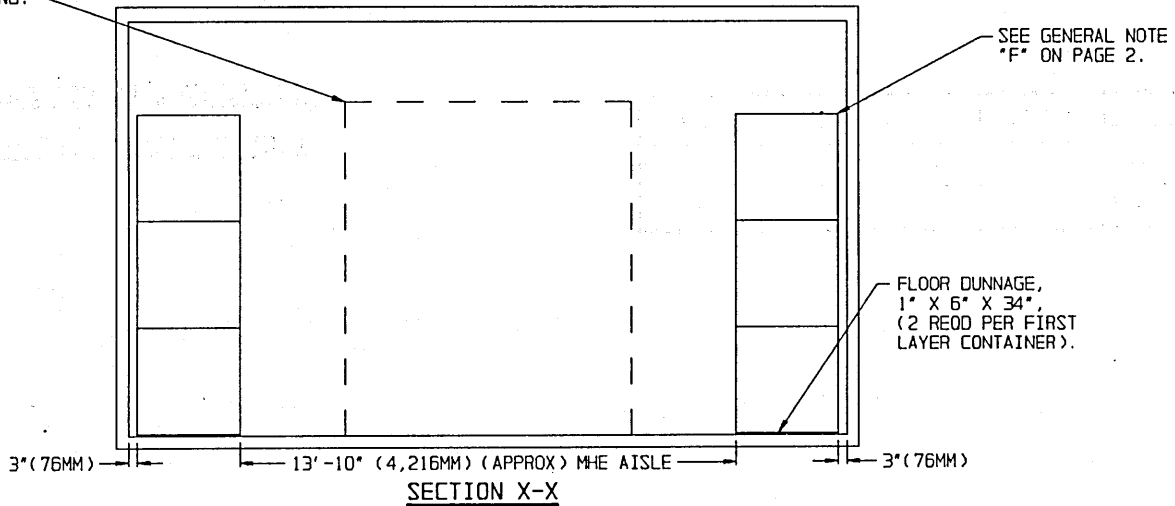
| BILL OF MATERIAL (PER FIRST LAYER CONTAINER) |             |            |
|--|-------------|------------|
| LUMBER                                       | LINEAR FEET | BOARD FEET |
| 1" X 6"                                      | 5.67        | 2.83       |

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

ARROWS INDICATE FORWARD  
END OF CONTAINER.



INDICATES OUTLINE OF DOOR OPENING.

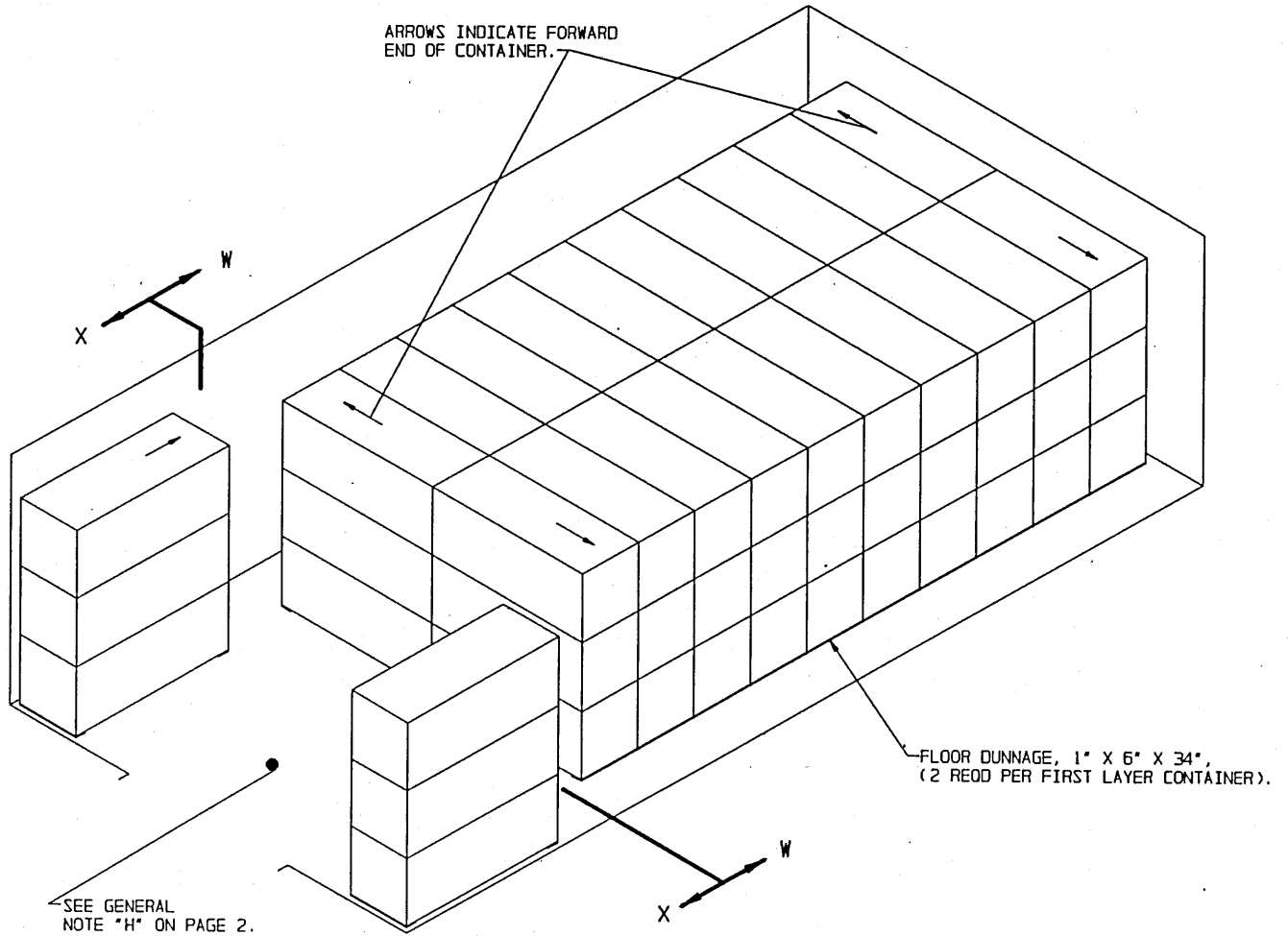


**STORAGE IN TYPE IV BUNKER MAGAZINE**

ITEM

QUANTITY

CONTAINER - - - - - 66



**ISOMETRIC VIEW**  
(TYPE IV BUNKER MAGAZINE)

| BILL OF MATERIAL (PER FIRST LAYER CONTAINER) |             |            |
|--|-------------|------------|
| LUMBER                                       | LINEAR FEET | BOARD FEET |
| 1' X 6"                                      | 5.67        | 2.83       |

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

