

STORAGE IN APPROVED MAGAZINES OF 2.75" HYDRA ROCKET, PACKED 4 PER PA150 CYLINDRICAL METAL CONTAINER, UNITIZED 12 PER 78-1/2" X 29-5/16" SPECIAL 4-WAY ENTRY METAL PALLET

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U.S. ARMY MATERIEL COMMAND DRAWING

APPROVED, U.S. ARMY ARMAMENT, MUNITIONS AND
CHEMICAL COMMAND *NKH*

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OFFICE

William F Ernst

OCTOBER 1994

CLASS

DIVISION

DRAWING

FILE

19

48

4250/60

1-2-3-4-14-
22PM1004

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 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 HYDRA ROCKET PALLET 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 FOLLOWED.
- C. THE STORAGE PROCEDURES SPECIFIED HEREIN ARE APPLICABLE FOR THE 2.75" HYDRA ROCKET, PACKED 4 PER PA150 CYLINDRICAL METAL CONTAINER, UNITIZED 12 PER 78-1/2" LONG BY 29-5/16" WIDE SPECIAL METAL PALLET. SUBSEQUENT REFERENCE TO PALLET UNIT MEANS THE PALLET UNIT WITH ROCKETS.
- D. FOR PALLET UNIT DETAILS REFER TO U. S. ARMY AMC DRAWING 19-48-4231/60-20PM1006 AND THE PICTORIAL VIEW ON PAGE 3.
- E. CAUTION: THESE ITEMS ARE IN A "PROPULSIVE STATE" AND MUST BE STORED WITH THE NOSE END FACING TOWARD THE REAR WALL OR A SIDE WALL OF THE MAGAZINE NOT TOWARD THE DOOR/FRONT WALL.
- F. CAUTION: 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.
- G. STORED PALLET UNITS MUST NOT CONTACT THE WALLS OF A MAGAZINE. TO PROVIDE FOR THIS MANDATORY CLEARANCE REQUIREMENT, UNITS MAY BE ELIMINATED FROM THE DEPICTED STORAGE PATTERN AS NECESSARY.
- H. AISLE DIMENSIONS SHOWN FOR STORAGE PROCEDURES IN MAGAZINES MAY BE ADJUSTED TO SUIT LOCAL CONDITIONS, VARIATIONS IN PALLET UNIT DIMENSIONS, AND/OR AVAILABLE MATERIALS HANDLING EQUIPMENT. ADDITIONAL UNITS MAY BE STORED WITHIN THE MHE AREA OR OTHER AVAILABLE AREA OF THE MAGAZINE.
- J. THE MAXIMUM FLOOR LOAD FOR A MAGAZINE AS PRESCRIBED BY LOCAL STANDARDS WILL NOT BE EXCEEDED.
- K. 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 TWO UPPER PALLET UNITS 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 PALLET UNITS AS ONE LIFT.
- L. 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. NOTE: ISOMETRIC VIEWS WITHIN THIS DRAWING DO NOT DEPICT ALL FLOOR DUNNAGE THAT IS REQUIRED WHEN DUNNAGE IS USED. FLOOR DUNNAGE IS SHOWN AT SOME LOCATIONS TO PROVIDE POSITIONING GUIDANCE. SEE NOTE "S" AT RIGHT.
- M. 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.

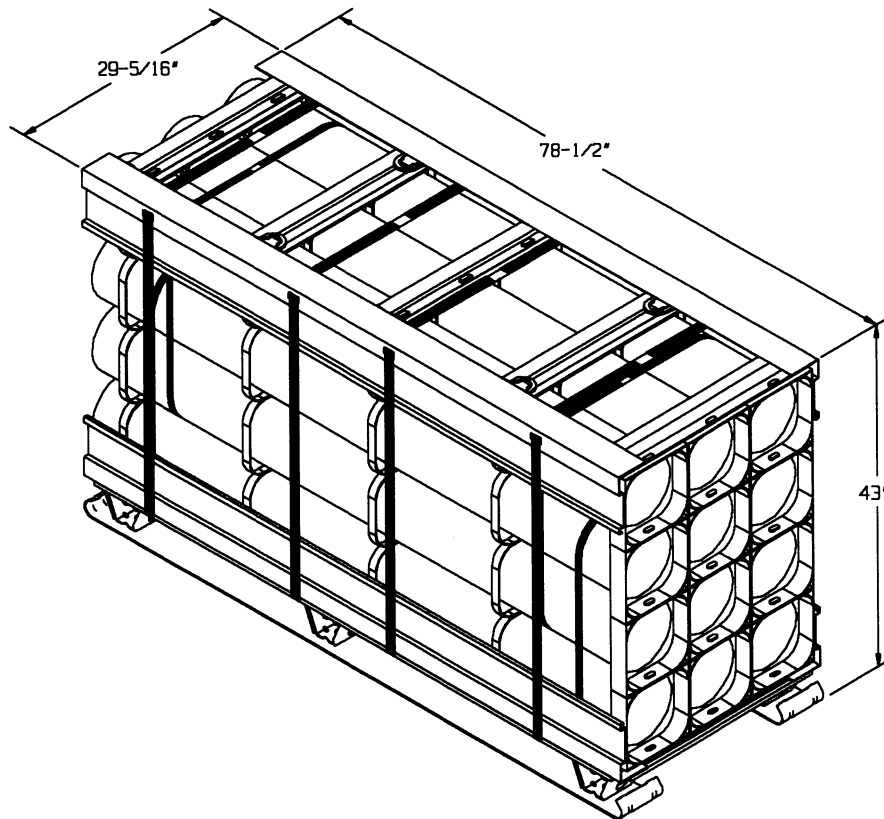
(CONTINUED AT RIGHT)

MATERIAL SPECIFICATIONS

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

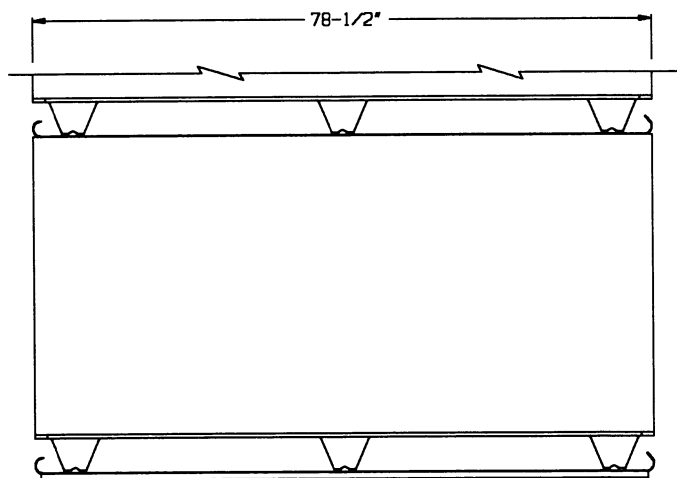
(GENERAL NOTES CONTINUED)

- N. 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 28 THRU 34.
- 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 27 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. IN BASIC STORAGE PATTERNS WHERE THE WIDTH OF A ROW IS ESTABLISHED BY THE 78-1/2" UNIT DIMENSION, EACH ROW MAY BE A DIFFERENT LOT AND READILY REMOVABLE. IN BASIC STORAGE PATTERNS WHERE THE WIDTH OF A ROW IS ESTABLISHED BY THE 29-5/16" 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. THE 1" SPACE BETWEEN LOTS, AS STATED ABOVE WILL NOT BE EXCEEDED SOLELY TO ACCOMMODATE THE WIDTH OF A FORKLIFT TRUCK. FOR ADDITIONAL REQUIREMENTS AND GUIDANCE, SEE THE SPECIAL NOTES FOR MULTIPLE-LOT STORAGE ON PAGES 28 THRU 34.
- P. ANY "LIGHT" PALLET UNIT THAT DOES NOT CONTAIN A FULL QUANTITY OF ROCKETS (48) WILL NOT BE BURIED IN STORAGE. IT MUST BE POSITIONED ADJACENT TO AN AISLE, PREFERABLY IN FRONT OF THE LOT.
- Q. PORTIONS OF THE MAGAZINES, SUCH AS SIDEWALLS, END WALLS, AND ROOFS, HAVE NOT BEEN SHOWN IN THE STORAGE VIEWS FOR CLARITY PURPOSES.
- R. A PRODUCTION OR STORAGE FACILITY IS AUTHORIZED TO HAVE ONE INCOMPLETE, UN-BANDED PARTIAL UNIT LOAD PER LOT IN A STORAGE STRUCTURE. PRIOR TO SHIPMENT OF A PARTIAL UNIT, A LAYER MUST BE COMPLETED, IF APPLICABLE, BY THE POSITIONING OF ONE OR MORE FILLER CONTAINERS AS DELINEATED BY DRAWING 19-48-4231/60-20PM1006. THE UNIT MUST THEN BE RE-BANDED WITH THE SAME SIZE AND QUANTITY OF STRAPS AS THE ORIGINAL UNIT.
- S. IN IGLOO, ARCH TYPE AND STRADLEY MAGAZINES WHICH HAVE SLOPING FLOORS, THE DEPICTED STORAGE PATTERNS, IN SOME CASES, INCLUDE PALLET UNIT STACKS WHICH STRADDLE THE RIDGE OF THE FLOOR AT THE CENTER OF THE MAGAZINE. FLOOR DUNNAGE IN THE FORM OF SHIMS WILL BE USED AS REQUIRED TO ACHIEVE SOUND AND ACCEPTABLE STABLE STACKS.
- T. 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 25.4 MM, AND ONE POUND EQUALS 0.454 KG.



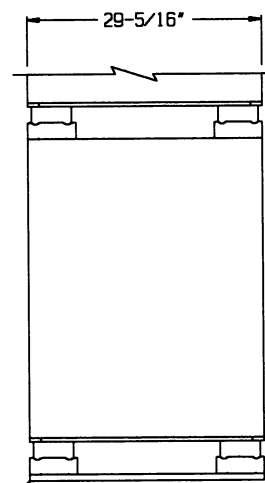
PALLET UNIT

12 CONTAINERS PER PALLET
 GROSS WEIGHT - - - 2,239 LBS. (APPROX)
 CUBE - - - - - 57.3 CU. FT. (APPROX)



LOCATION "B"

FLOOR DUNNAGE, 1" X 6" X 77".
 (2 REQD PER FIRST LAYER UNIT).



LOCATION "A"

FLOOR DUNNAGE, 1" X 6" X 29".
 (3 REQD PER FIRST LAYER UNIT).

FLOOR DUNNAGE

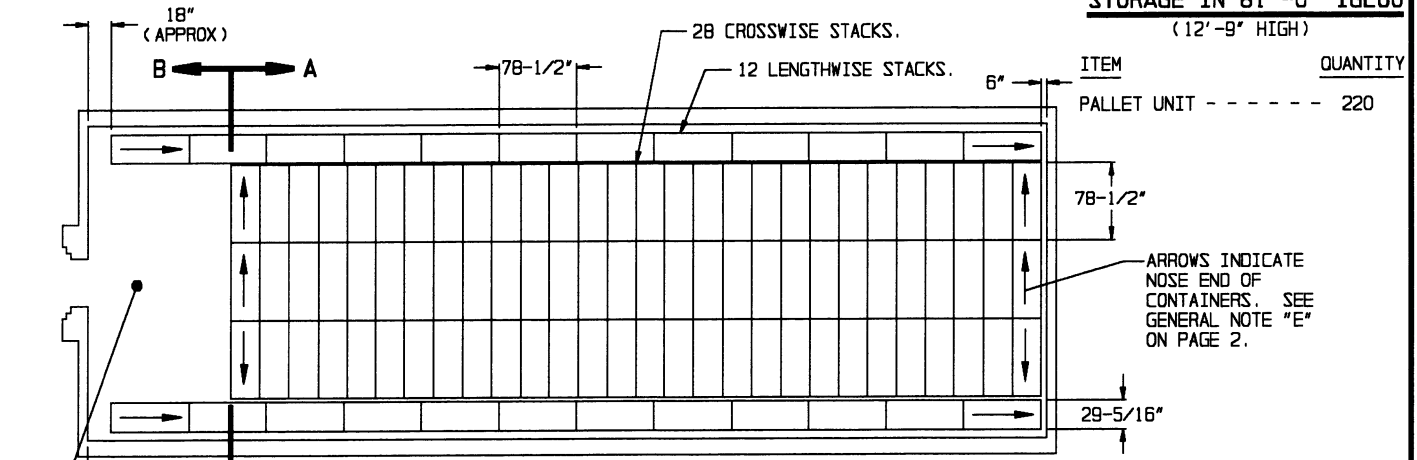
SEE GENERAL NOTE "L" ON PAGE 2.

DETAILS

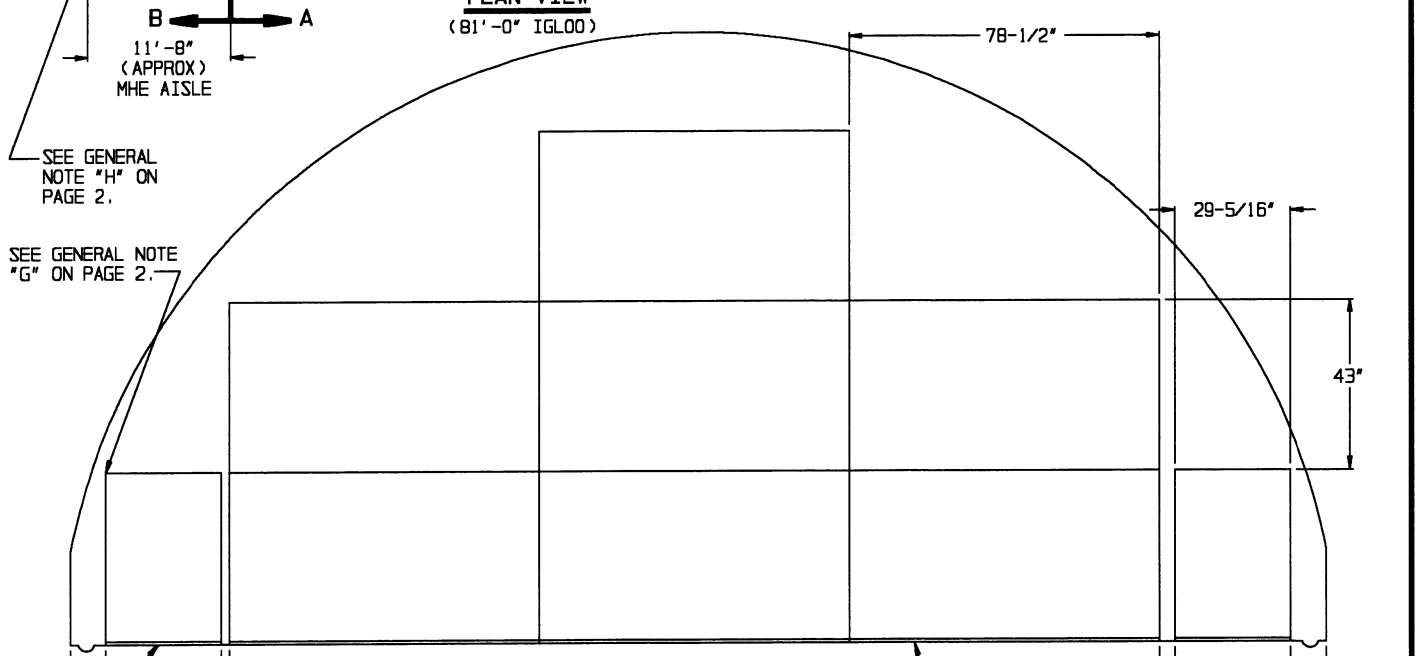
STORAGE IN 81'-0" IGL00

(12'-9" HIGH)

| ITEM | QUANTITY |
|-----------------------|----------|
| PALLET UNIT - - - - - | 220 |



PLAN VIEW
(81'-0" IGL00)

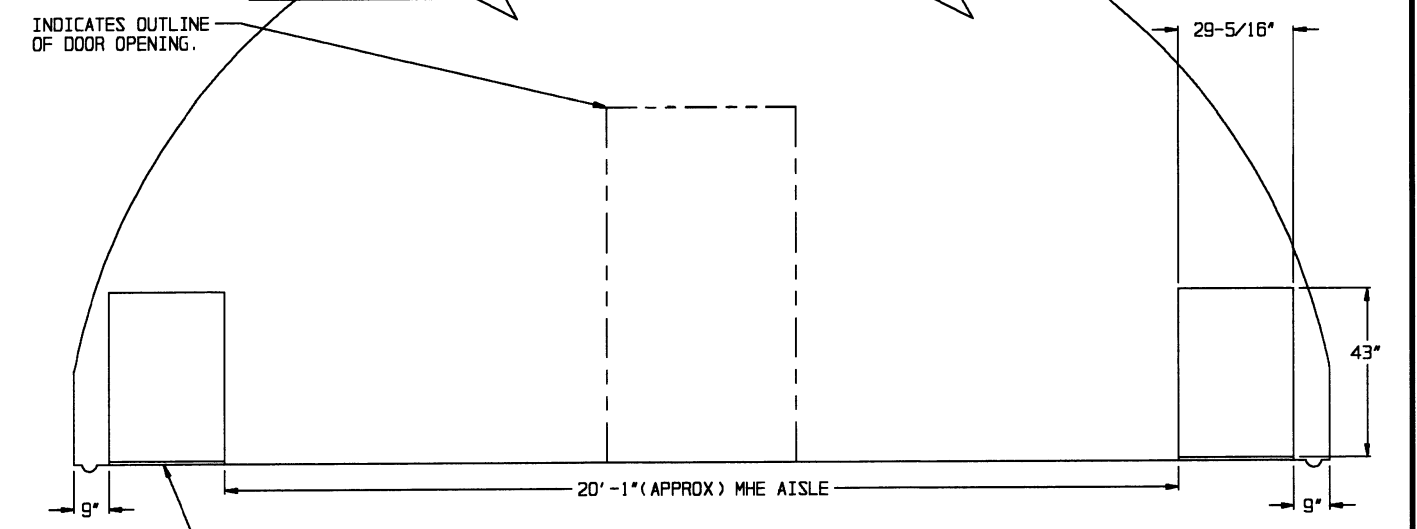


SECTION A-A

FLOOR DUNNAGE, 1" X 6" X 29"
(3 REQD PER FIRST LAYER UNIT).
SEE THE "FLOOR DUNNAGE LOCATION A" DETAIL ON PAGE 3 AND GENERAL NOTE "L" ON PAGE 2.

FLOOR DUNNAGE, 1" X 6" X 77"
(2 REQD PER FIRST LAYER UNIT).
SEE THE "FLOOR DUNNAGE LOCATION B" DETAIL ON PAGE 3.

INDICATES OUTLINE OF DOOR OPENING.



SECTION B-B

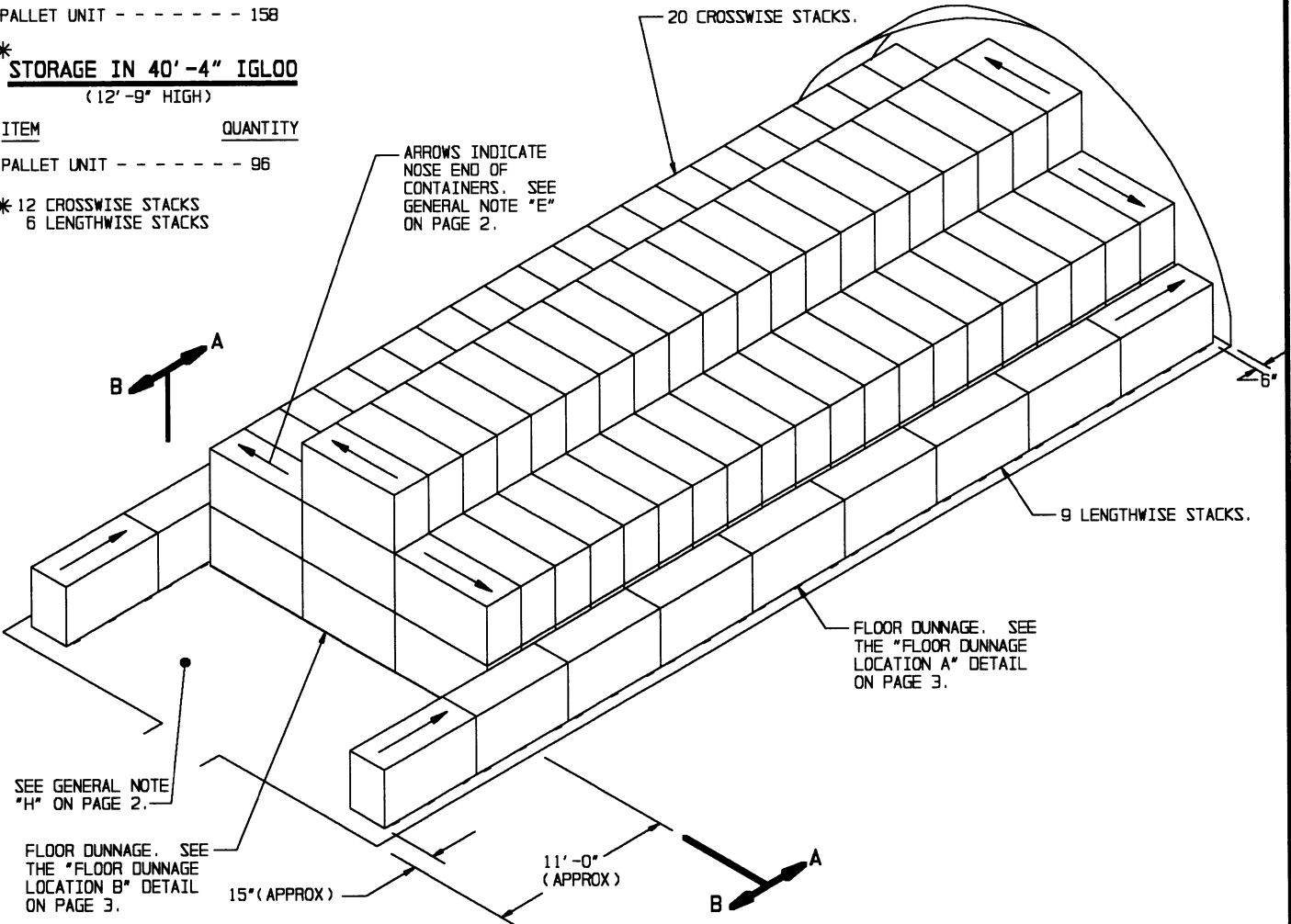
STORAGE IN 60'-8" IGL00
(12'-9" HIGH)

| ITEM | QUANTITY |
|-----------------------|----------|
| PALLET UNIT - - - - - | 158 |

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

| ITEM | QUANTITY |
|-----------------------|----------|
| PALLET UNIT - - - - - | 96 |

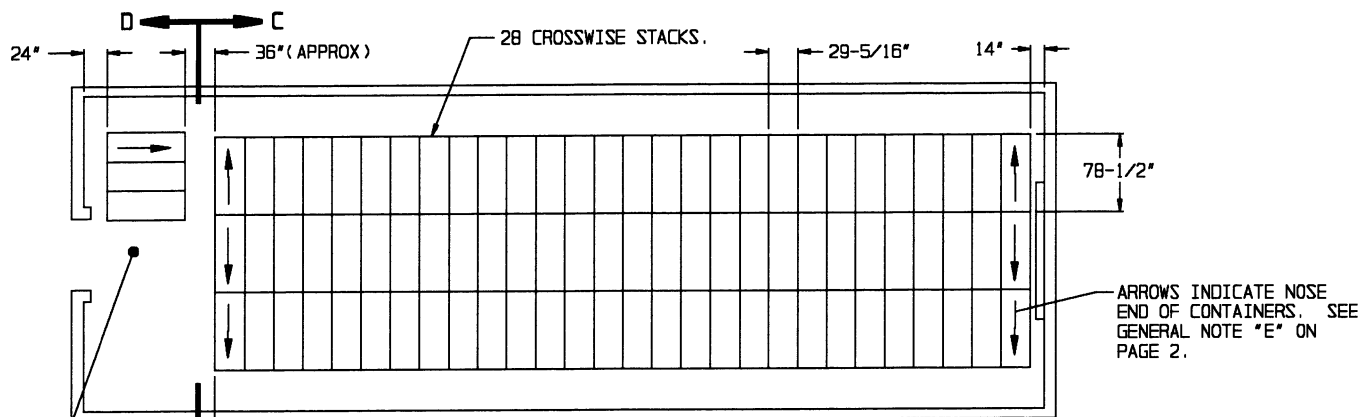
* 12 CROSSWISE STACKS
6 LENGTHWISE STACKS



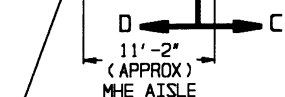
ISOMETRIC VIEW
(60'-8" IGL00)

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

| BILL OF MATERIAL (PER FIRST LAYER UNIT) | | |
|---|------------------------|------------|
| TYPE STACK | 1" X 6" DUNNAGE LUMBER | |
| | LINEAR FEET | BOARD FEET |
| LENGTHWISE | 8 | 4 |
| CROSSWISE | 13 | 6.5 |

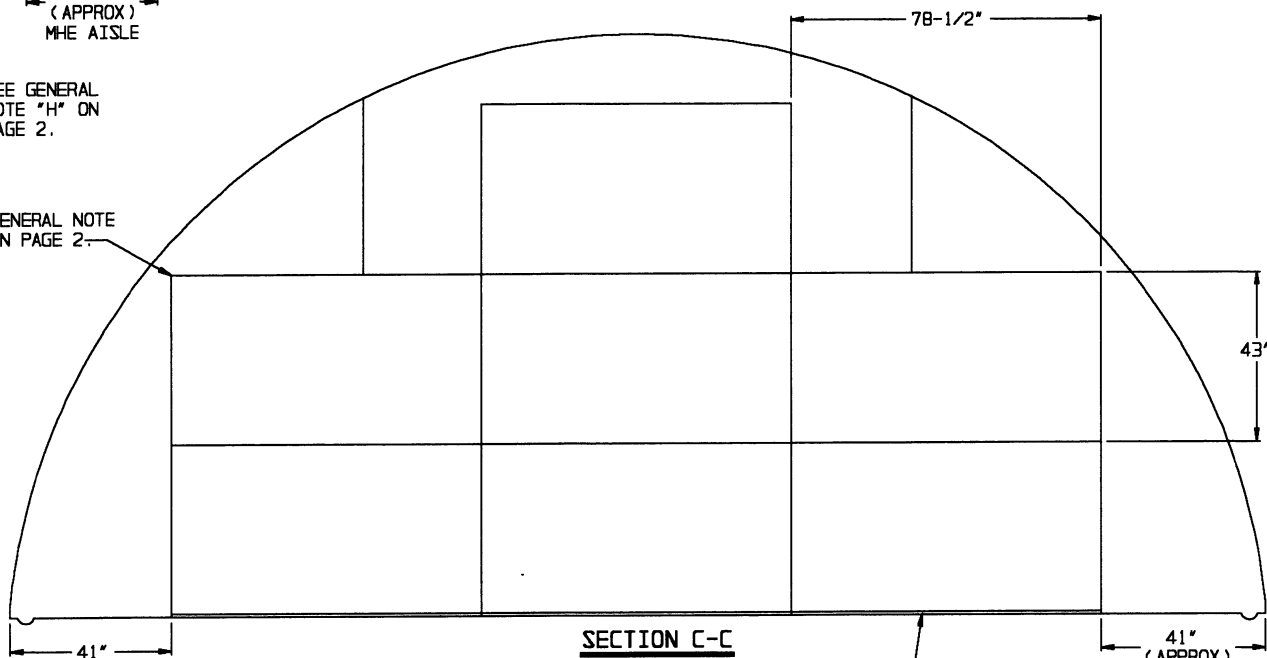


PLAN VIEW
(81'-2" MAGAZINE)



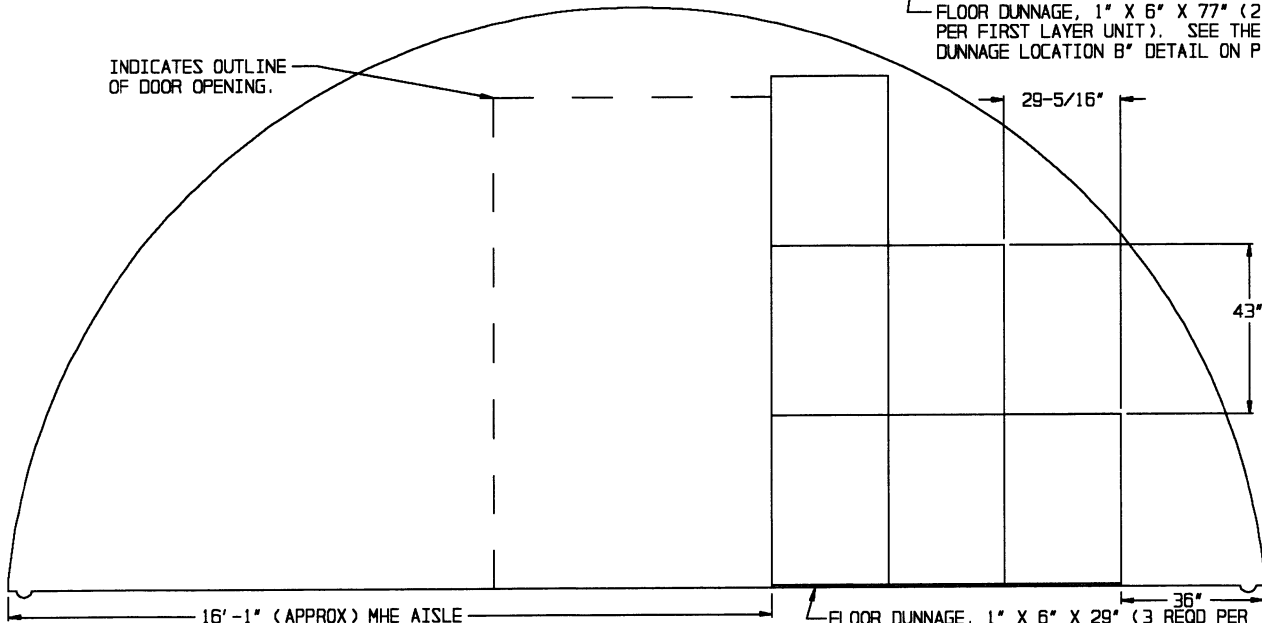
SEE GENERAL NOTE "H" ON PAGE 2.

SEE GENERAL NOTE "G" ON PAGE 2.



SECTION C-C

INDICATES OUTLINE OF DOOR OPENING.

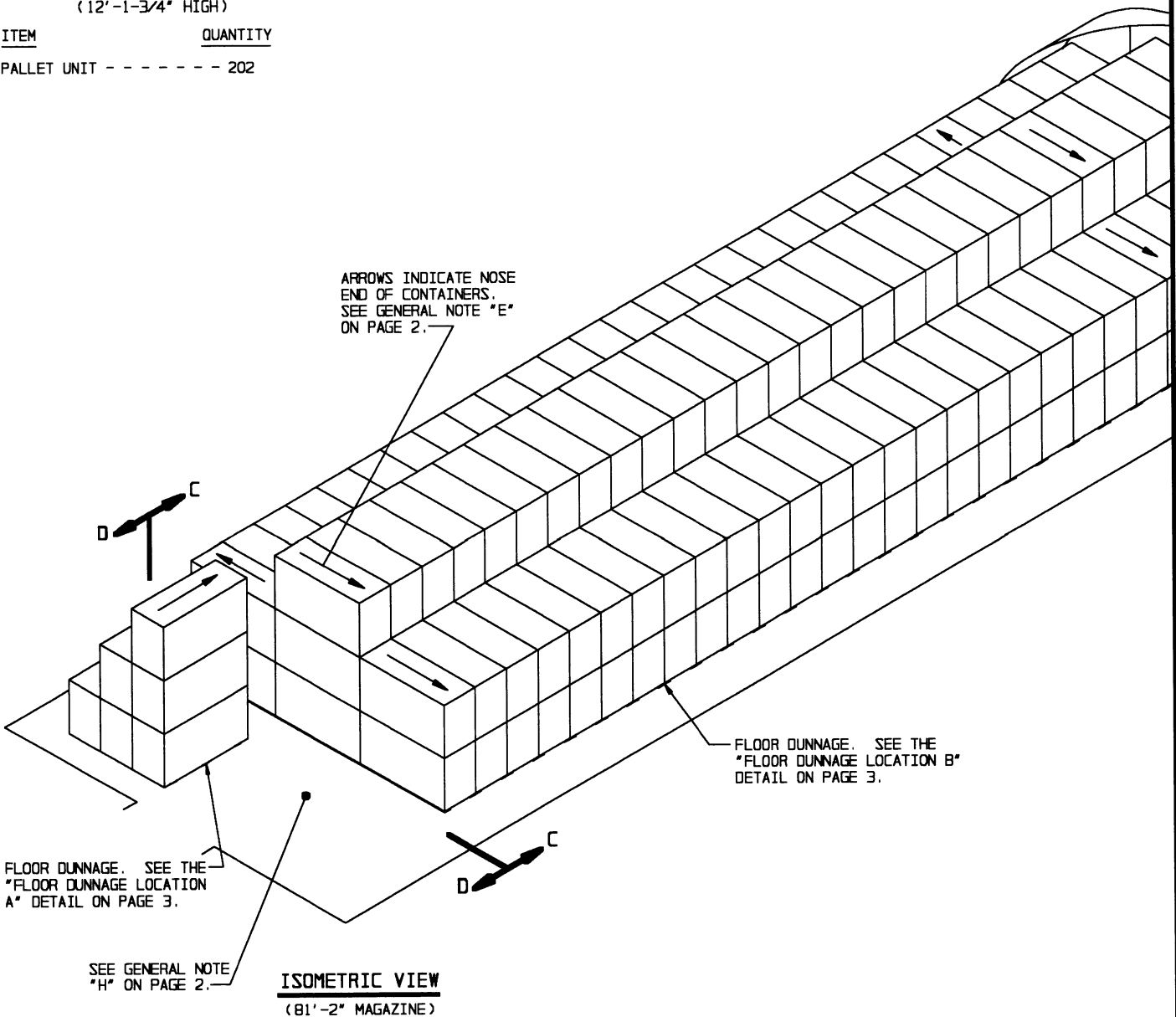


SECTION D-D

STORAGE IN 81'-2" MAGAZINE

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

| ITEM | QUANTITY |
|-----------------------|----------|
| PALLET UNIT - - - - - | 202 |



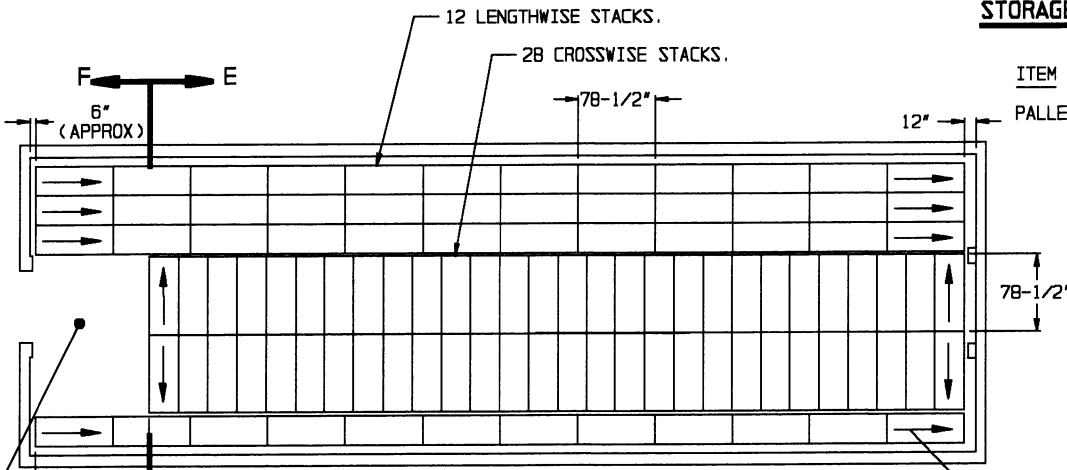
FOR "GENERAL NOTES" AND "MATERIAL SPECIFICATIONS", SEE PAGE 2.

| BILL OF MATERIAL (PER FIRST LAYER UNIT) | | |
|---|------------------------|------------|
| TYPE STACK | 1" X 6" DUNNAGE LUMBER | |
| | LINEAR FEET | BOARD FEET |
| LENGTHWISE | 8 | 4 |
| CROSSWISE | 13 | 6.5 |

STORAGE IN 80'-0" MAGAZINE

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

| ITEM | QUANTITY |
|-----------------------|----------|
| PALLET UNIT - - - - - | 212 |

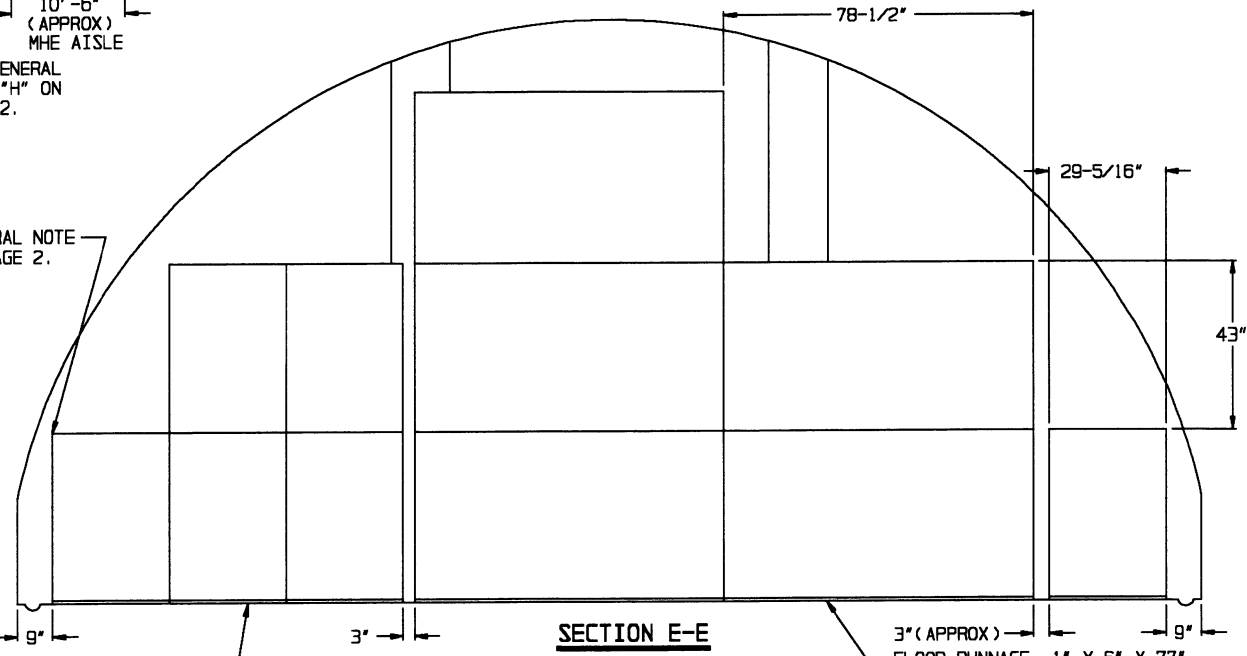


PLAN VIEW
(80'-0" MAGAZINE)

ARROWS INDICATE NOSE END OF CONTAINERS. SEE GENERAL NOTE "E" ON PAGE 2.

SEE GENERAL NOTE "H" ON PAGE 2.
10'-6" (APPROX) MHE AISLE

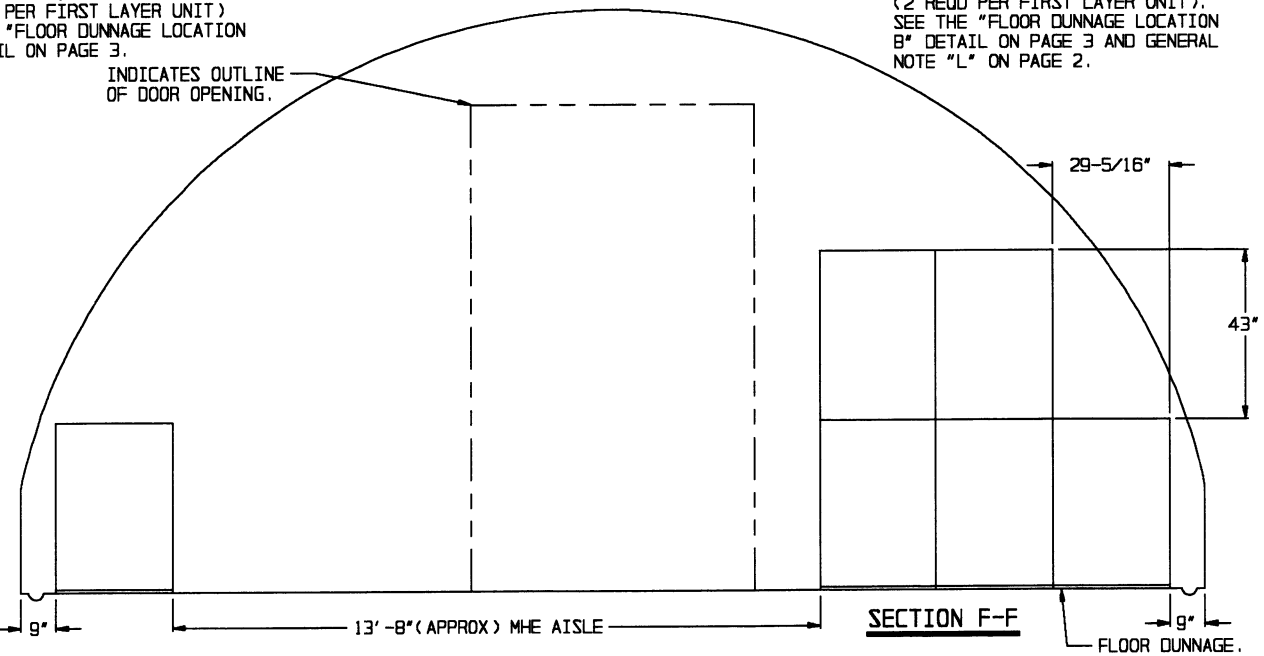
SEE GENERAL NOTE "G" ON PAGE 2.



FLOOR DUNNAGE, 1" X 6" X 29" (3 REOD PER FIRST LAYER UNIT) SEE THE "FLOOR DUNNAGE LOCATION A" DETAIL ON PAGE 3.

FLOOR DUNNAGE, 1" X 6" X 77" (2 REOD PER FIRST LAYER UNIT). SEE THE "FLOOR DUNNAGE LOCATION B" DETAIL ON PAGE 3 AND GENERAL NOTE "L" ON PAGE 2.

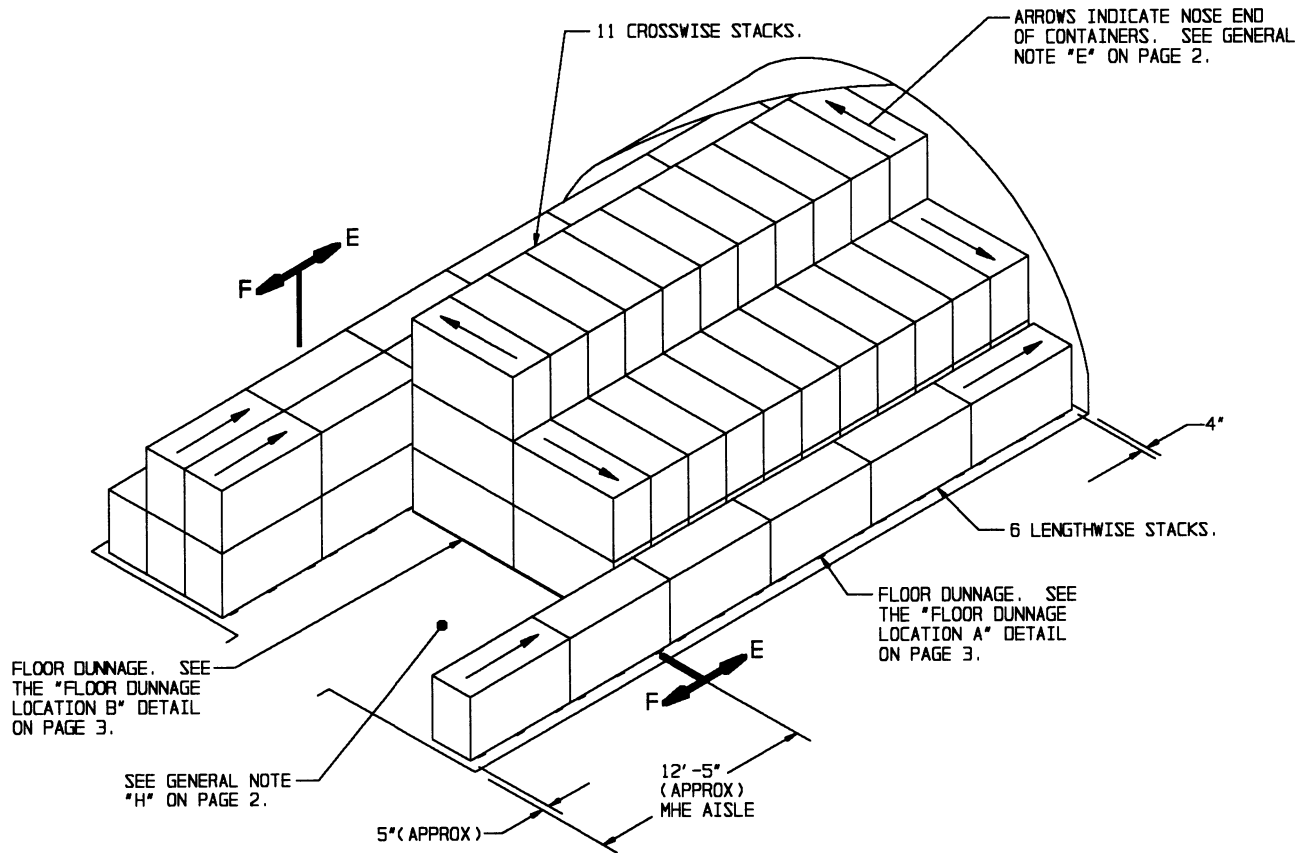
INDICATES OUTLINE OF DOOR OPENING.



STORAGE IN 40'-0" MAGAZINE

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

ITEM QUANTITY
 PALLET UNIT - - - - - 91



ISOMETRIC VIEW
 (40'-0" MAGAZINE)

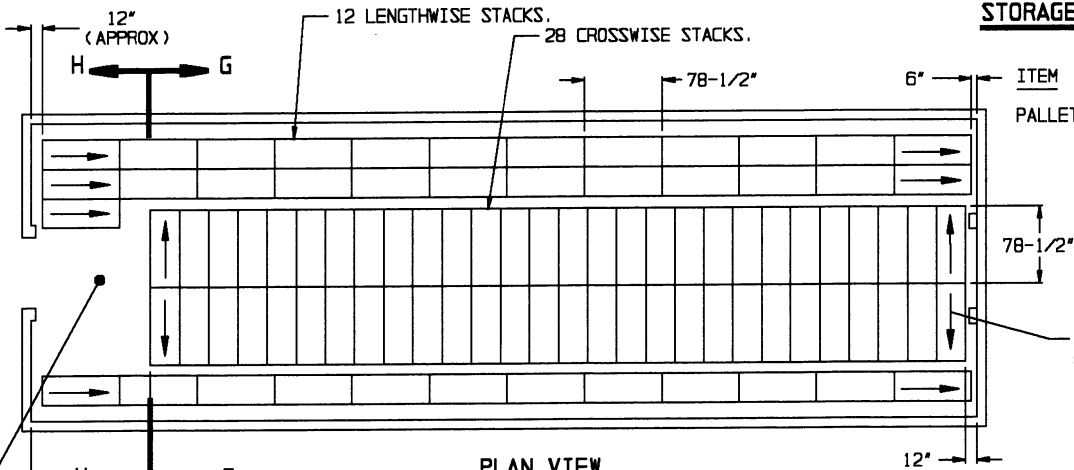
FOR "GENERAL NOTES" AND "MATERIAL SPECIFICATIONS", SEE PAGE 2.

| BILL OF MATERIAL (PER FIRST LAYER UNIT) | | |
|---|------------------------|------------|
| TYPE STACK | 1" X 6" DUNNAGE LUMBER | |
| | LINEAR FEET | BOARD FEET |
| LENGTHWISE | 8 | 4 |
| CROSSWISE | 13 | 6.5 |

STORAGE IN 80'-0" MAGAZINE

(11'-0" HIGH)

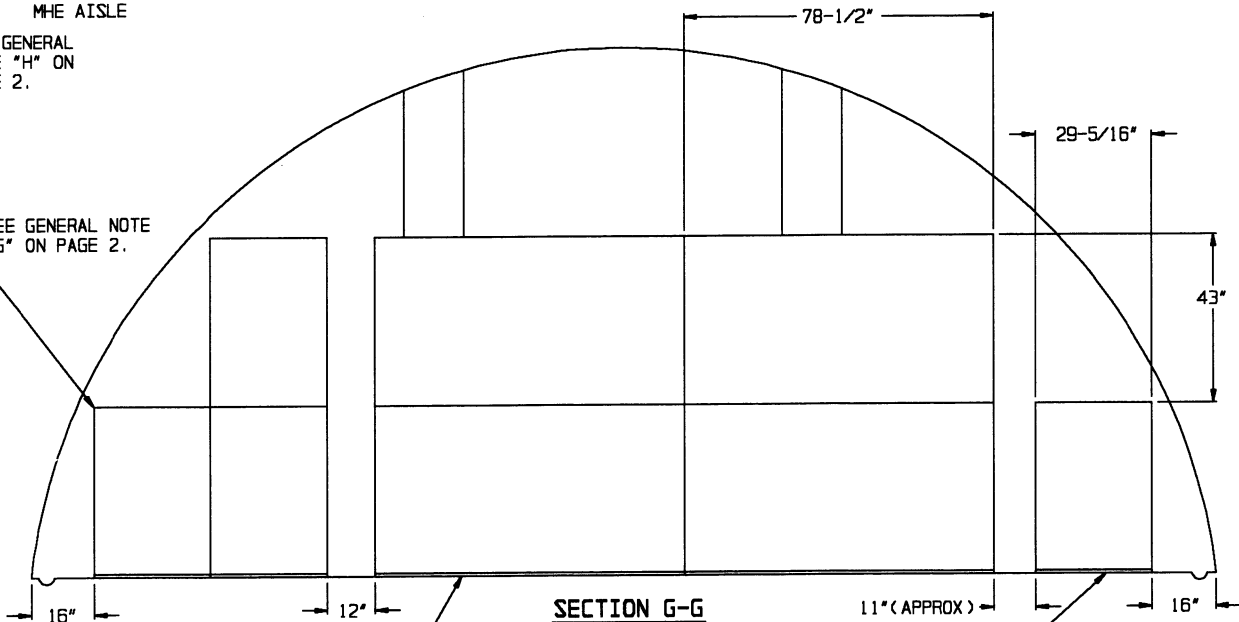
| ITEM | QUANTITY |
|-----------------------|----------|
| PALLET UNIT - - - - - | 162 |



PLAN VIEW
(80'-0" MAGAZINE)

SEE GENERAL NOTE "H" ON PAGE 2.

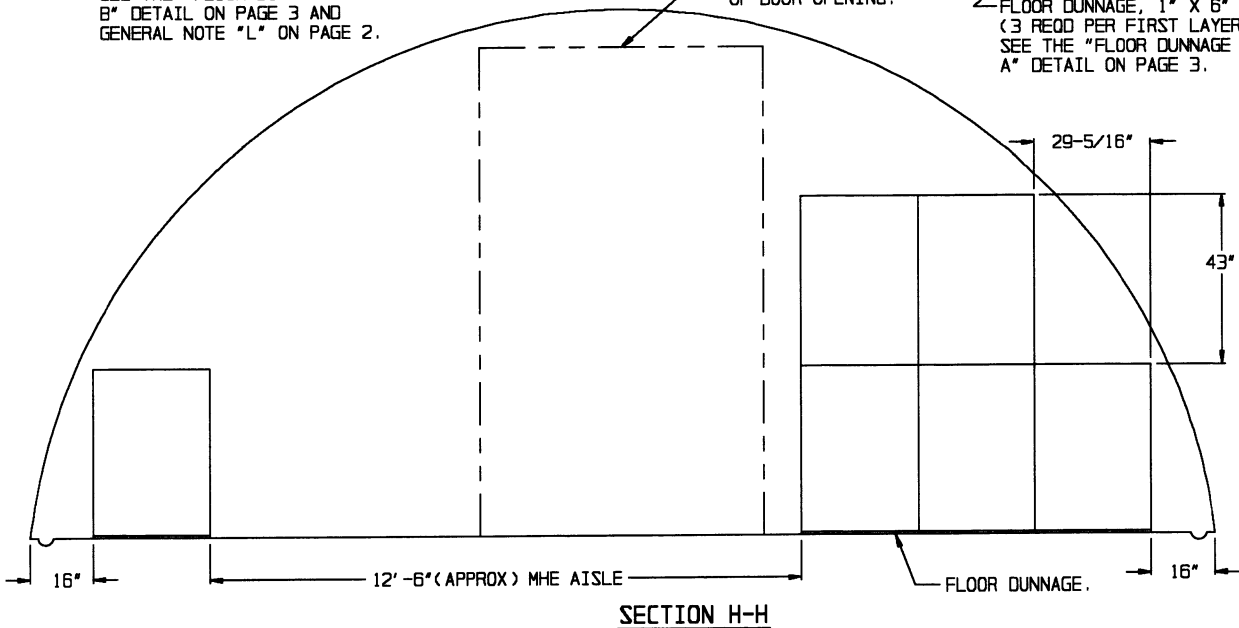
SEE GENERAL NOTE "G" ON PAGE 2.



FLOOR DUNNAGE, 1" X 6" X 77" (2 REOD PER FIRST LAYER UNIT). SEE THE "FLOOR DUNNAGE LOCATION B" DETAIL ON PAGE 3 AND GENERAL NOTE "L" ON PAGE 2.

INDICATES OUTLINE OF DOOR OPENING.

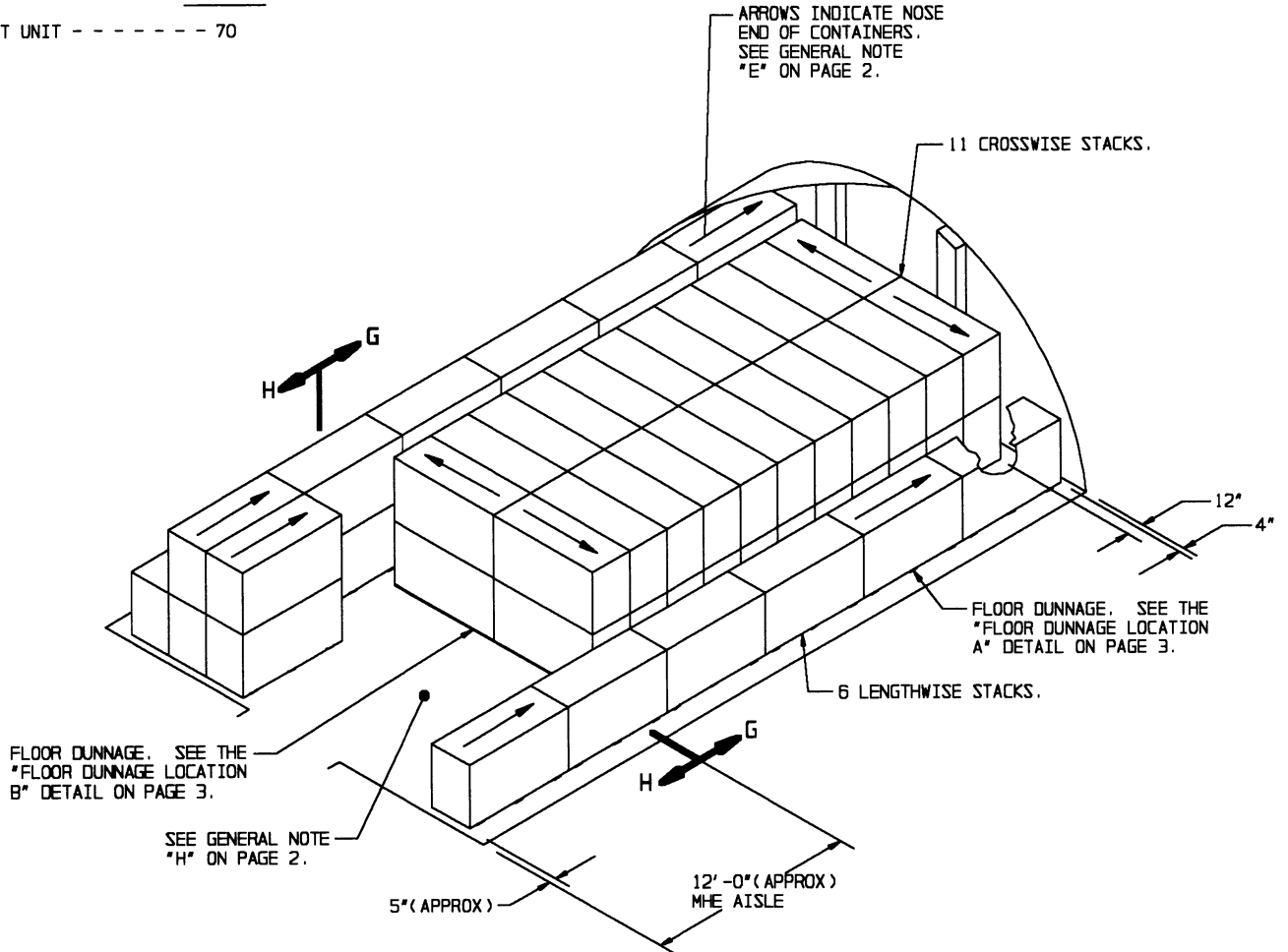
FLOOR DUNNAGE, 1" X 6" X 29" (3 REOD PER FIRST LAYER UNIT). SEE THE "FLOOR DUNNAGE LOCATION A" DETAIL ON PAGE 3.



STORAGE IN 40'-0" MAGAZINE

(11'-0" HIGH)

| ITEM | QUANTITY |
|-----------------------|----------|
| PALLET UNIT - - - - - | 70 |



ISOMETRIC VIEW
(40'-0" MAGAZINE)

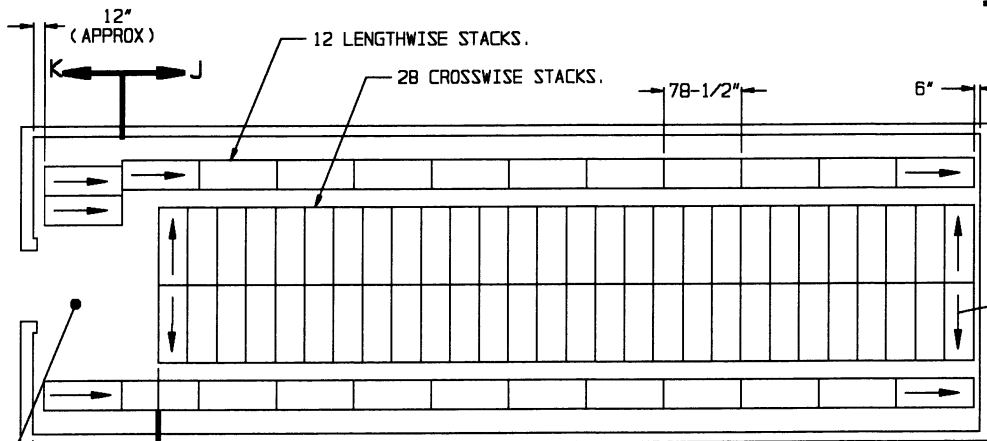
FOR "GENERAL NOTES" AND "MATERIAL SPECIFICATIONS", SEE PAGE 2.

| BILL OF MATERIAL (PER FIRST LAYER UNIT) | | |
|---|------------------------|------------|
| TYPE STACK | 1" X 6" DUNNAGE LUMBER | |
| | LINEAR FEET | BOARD FEET |
| LENGTHWISE | 8 | 4 |
| CROSSWISE | 13 | 6.5 |

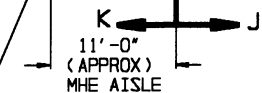
STORAGE IN 80'-0" MAGAZINE

(10'-0" HIGH)

| ITEM | QUANTITY |
|-----------------------|----------|
| PALLET UNIT - - - - - | 138 |

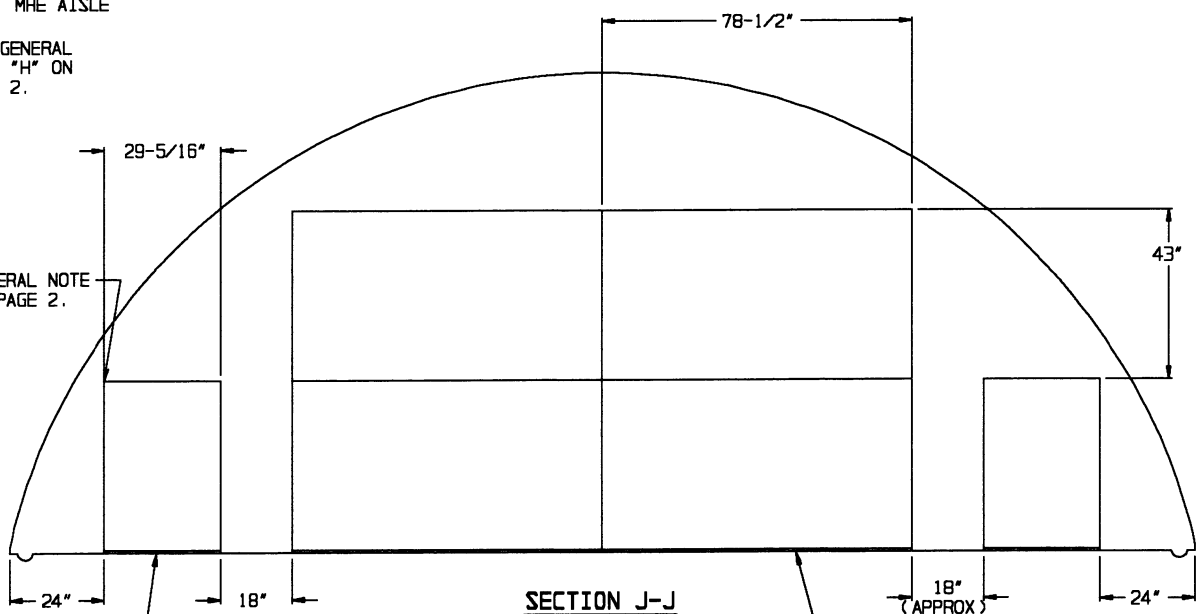


PLAN VIEW
(80'-0" MAGAZINE)



SEE GENERAL NOTE "H" ON PAGE 2.

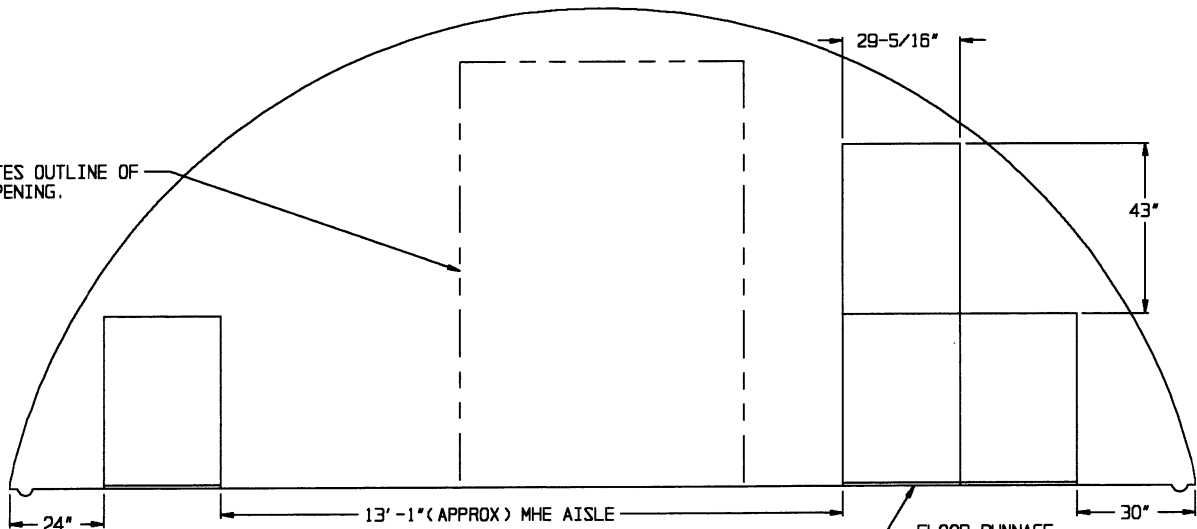
SEE GENERAL NOTE "G" ON PAGE 2.



FLOOR DUNNAGE, 1" X 6" X 29"
(3 REQD PER FIRST LAYER UNIT).
SEE THE "FLOOR DUNNAGE LOCATION A" DETAIL ON PAGE 3.

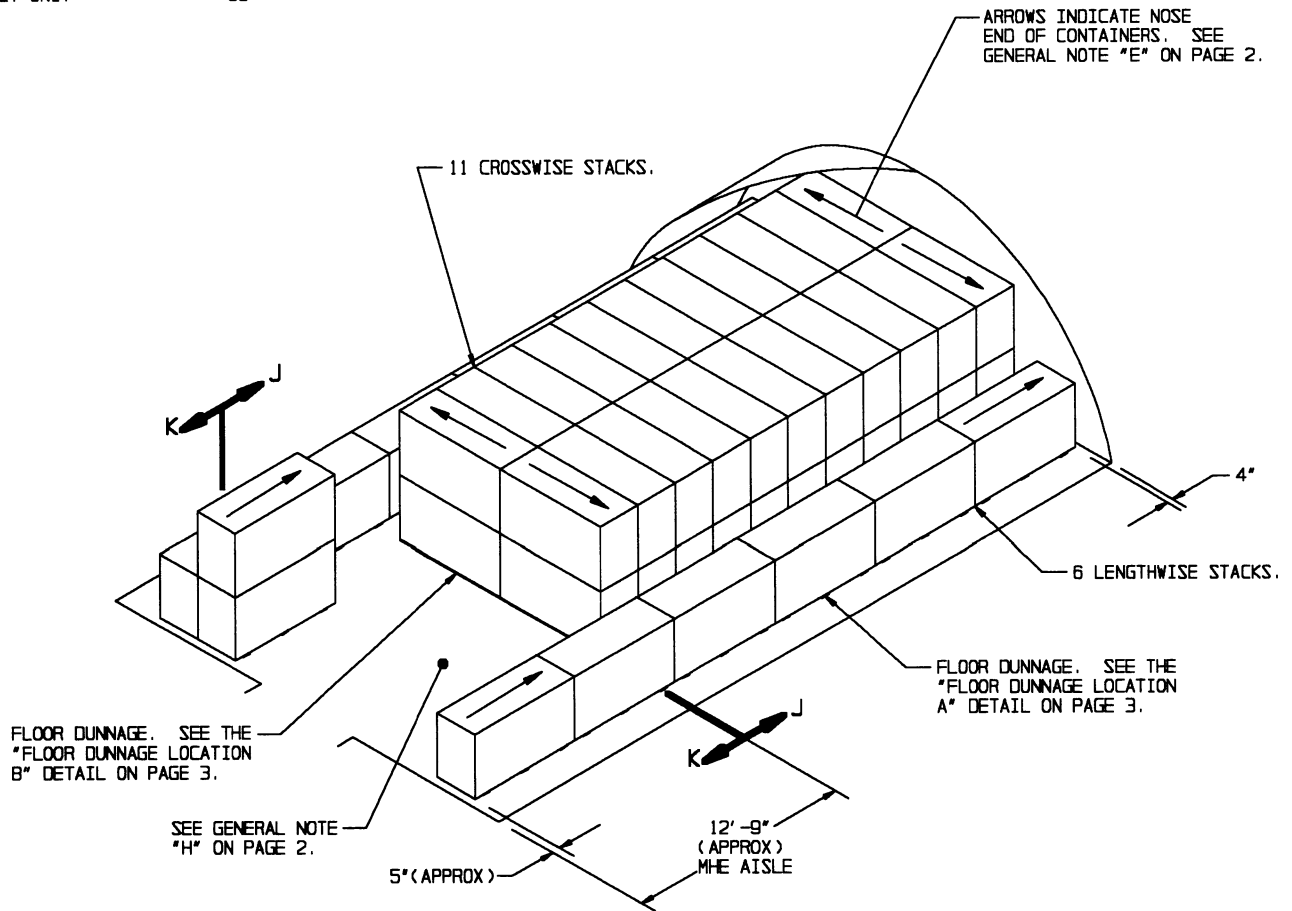
FLOOR DUNNAGE, 1" X 6" X 77"
(2 REQD PER FIRST LAYER UNIT).
SEE THE "FLOOR DUNNAGE LOCATION B" DETAIL ON PAGE 3 AND GENERAL NOTE "L" ON PAGE 2.

INDICATES OUTLINE OF DOOR OPENING.



STORAGE IN 40'-0" MAGAZINE
(10'-0" HIGH)

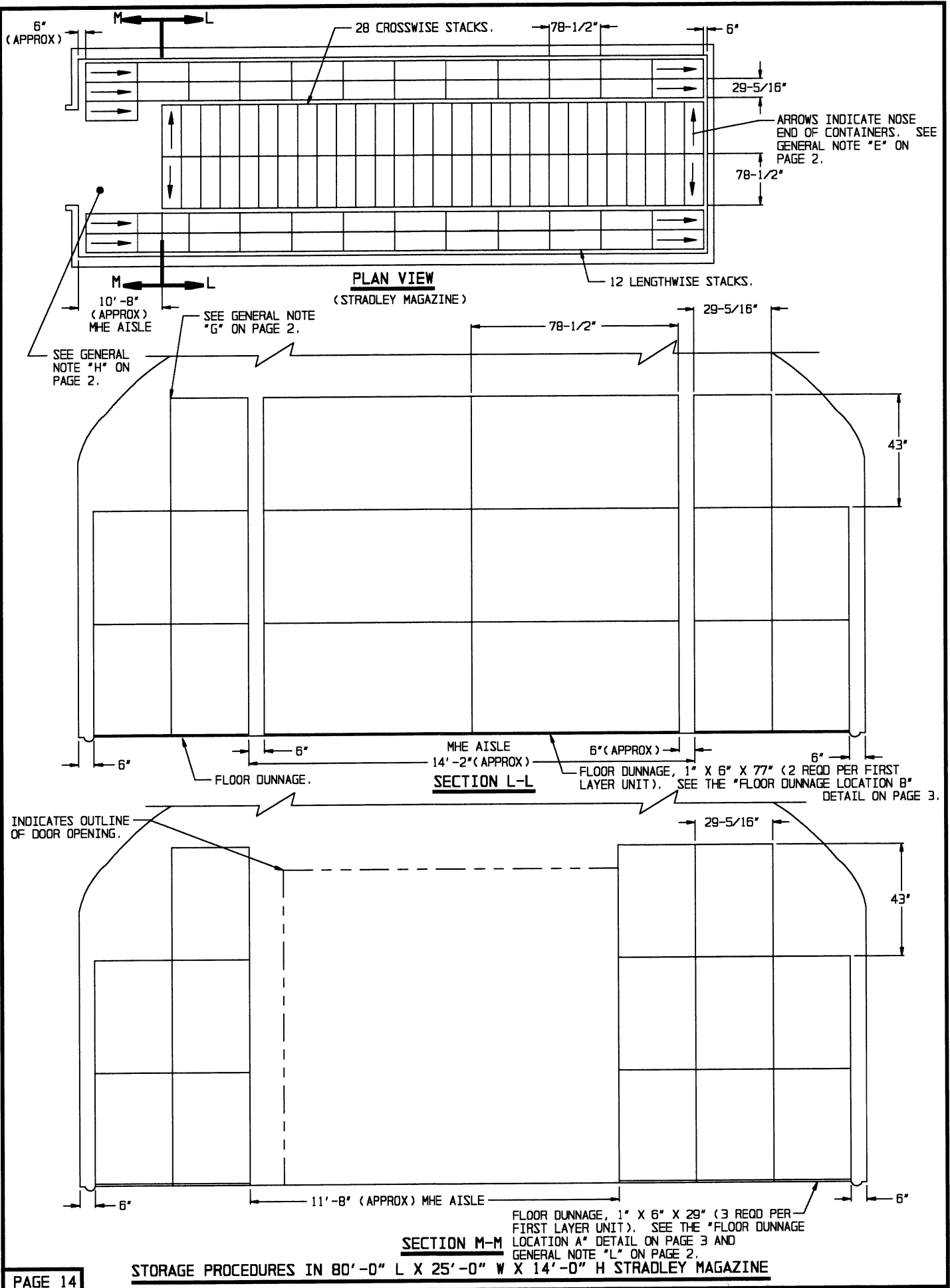
ITEM QUANTITY
PALLET UNIT - - - - - 58



ISOMETRIC VIEW
(40'-0" MAGAZINE)

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

| BILL OF MATERIAL (PER FIRST LAYER UNIT) | | |
|---|------------------------|------------|
| TYPE STACK | 1" X 6" DUNNAGE LUMBER | |
| | LINEAR FEET | BOARD FEET |
| LENGTHWISE | 8 | 4 |
| CROSSWISE | 13 | 6.5 |



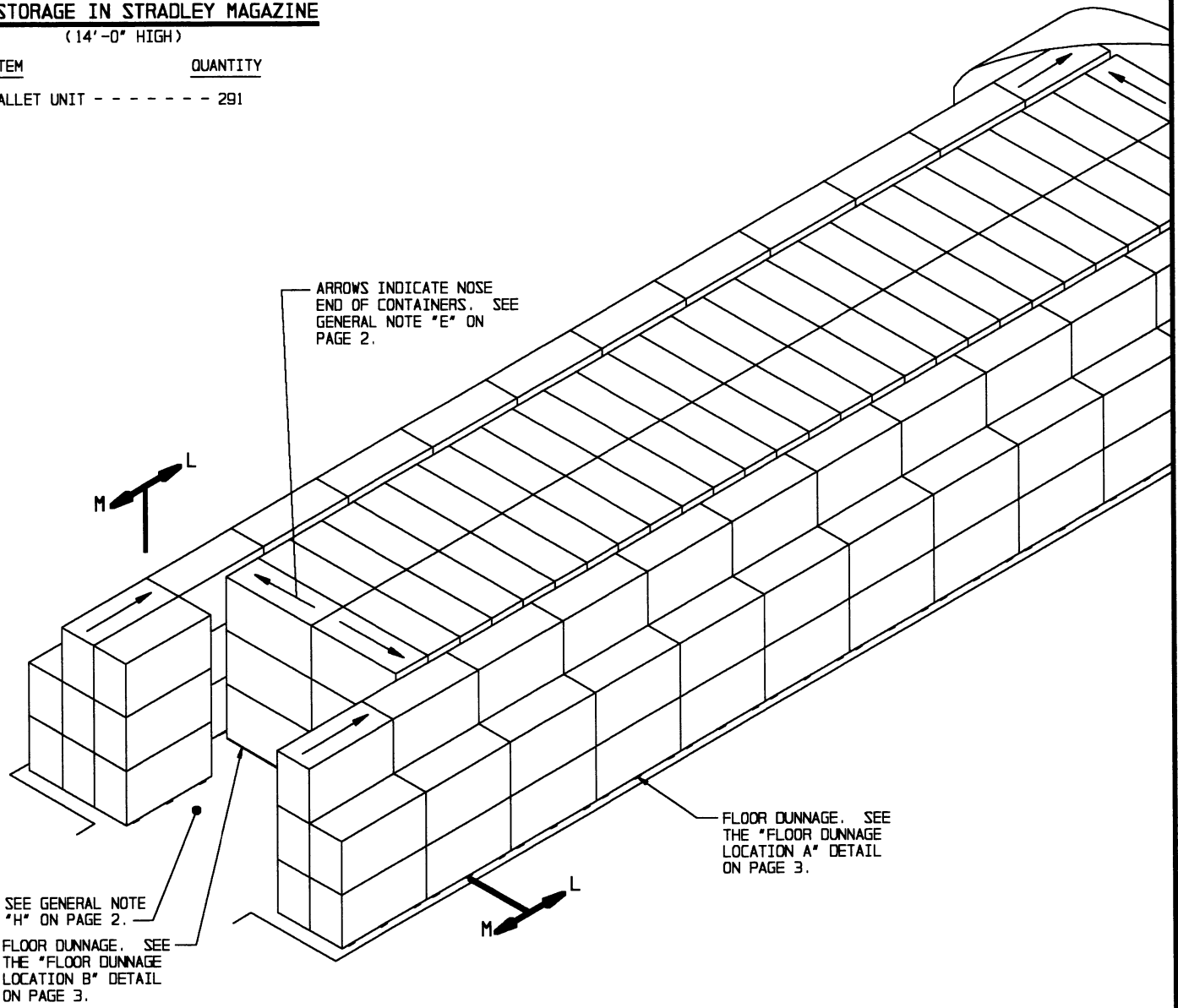
STORAGE IN STRADLEY MAGAZINE

(14'-0" HIGH)

ITEM

QUANTITY

PALLET UNIT - - - - - 291

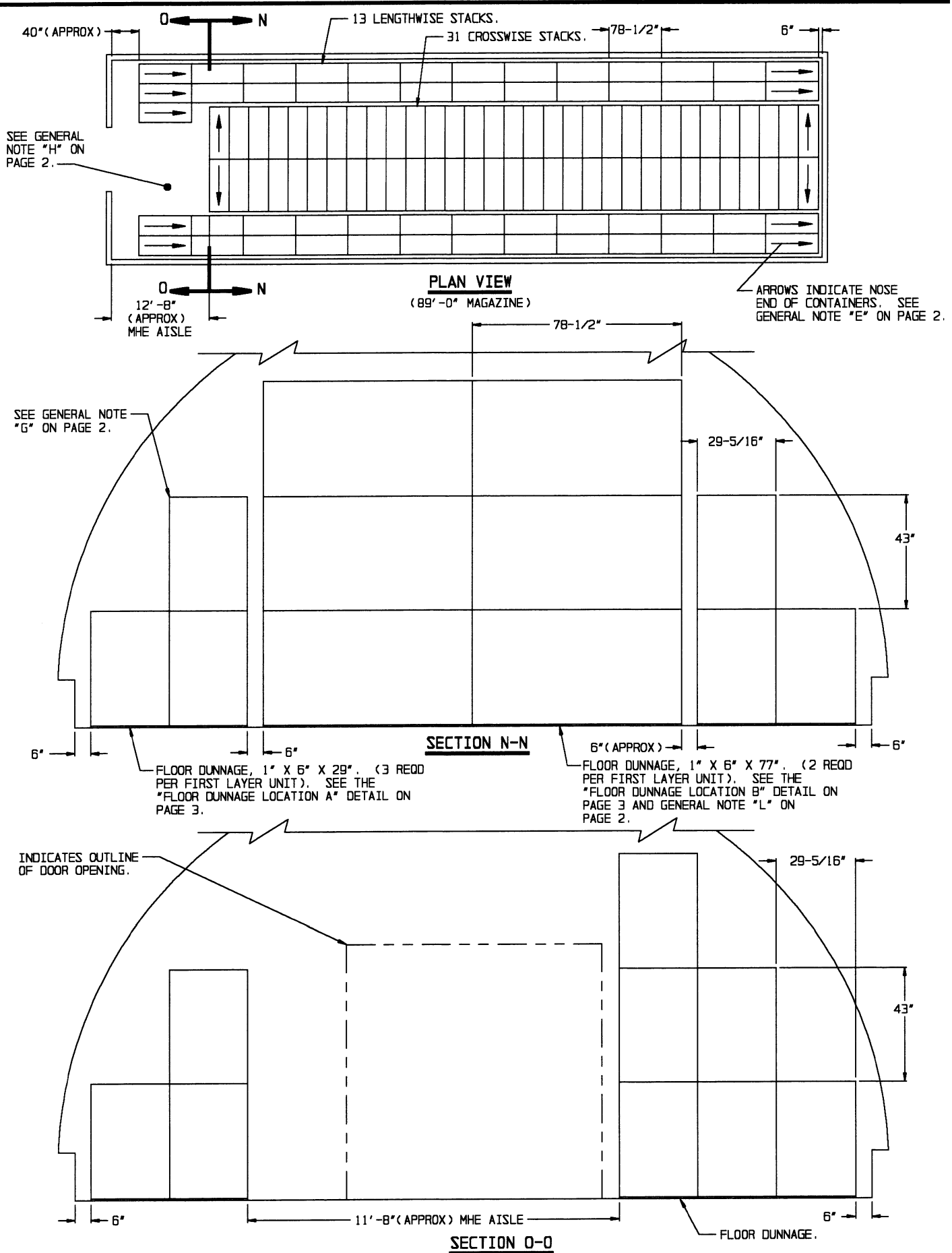


ISOMETRIC VIEW
(STRADLEY MAGAZINE)

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

BILL OF MATERIAL (PER FIRST LAYER UNIT)

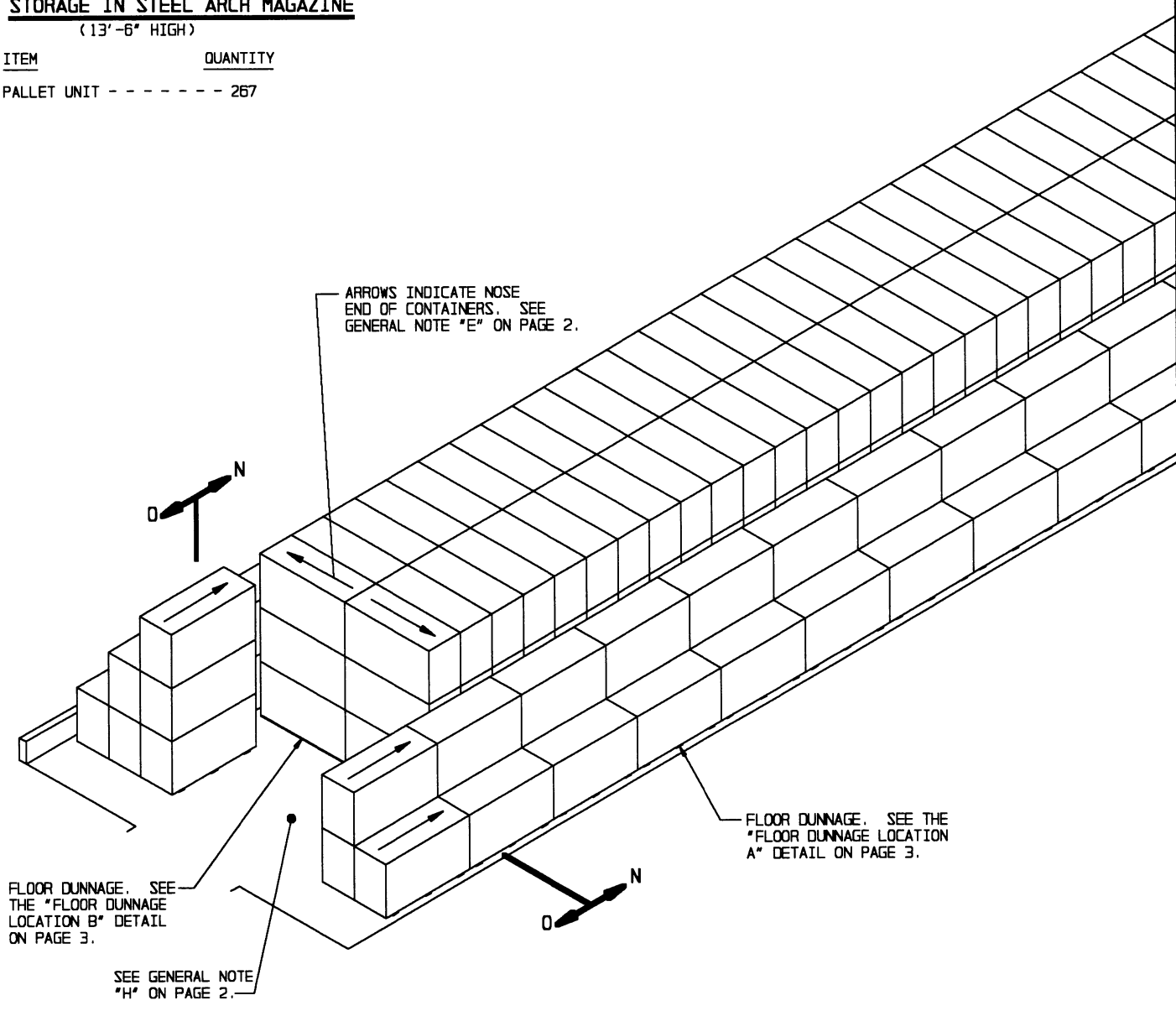
| TYPE STACK | 1' X 6' DUNNAGE LUMBER | |
|------------|------------------------|------------|
| | LINEAR FEET | BOARD FEET |
| LENGTHWISE | 8 | 4 |
| CROSSWISE | 13 | 6.5 |



STORAGE IN STEEL ARCH MAGAZINE

(13'-6" HIGH)

ITEM QUANTITY
 PALLET UNIT - - - - - 267



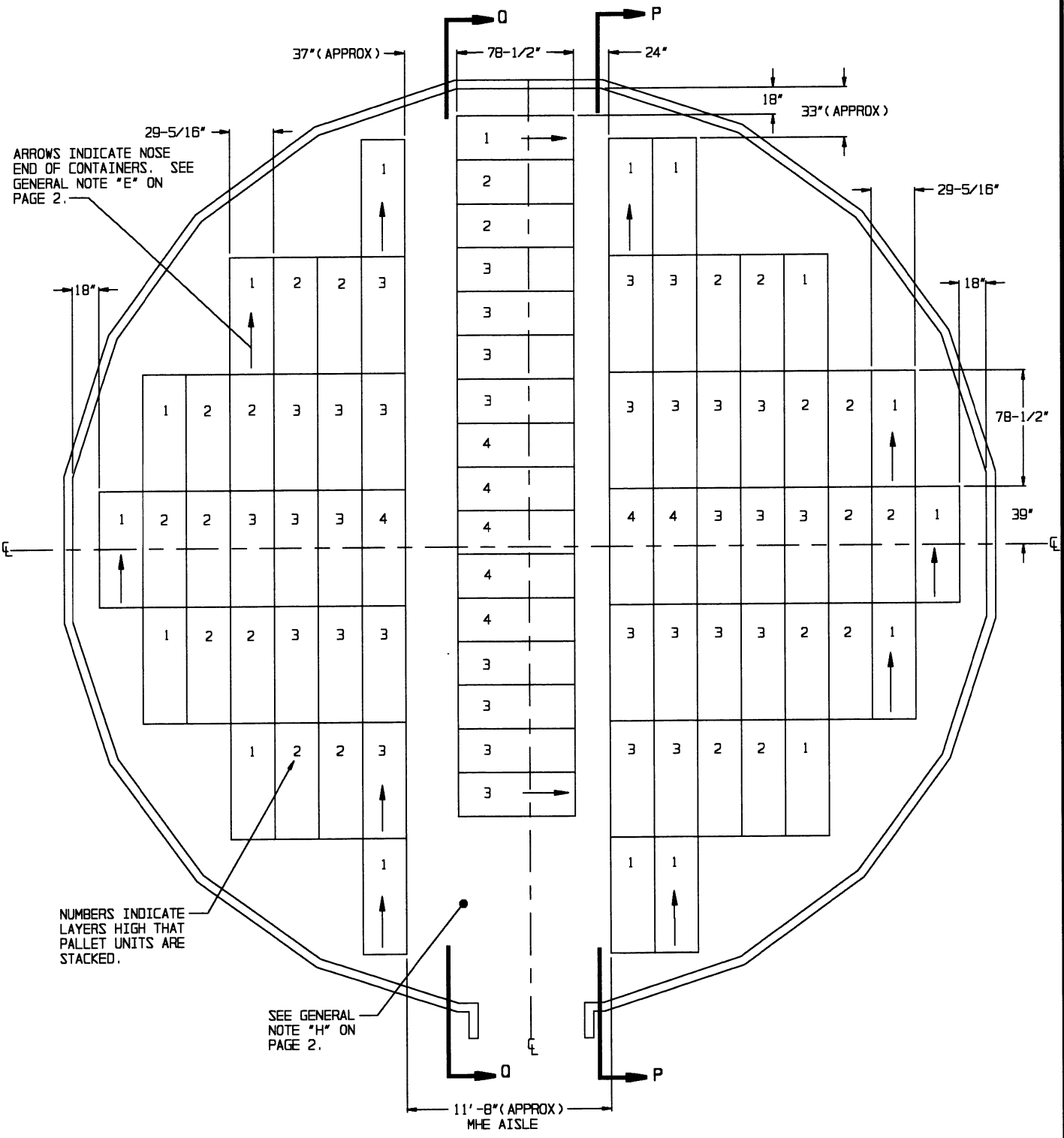
ISOMETRIC VIEW
 (89'-0" MAGAZINE)

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

| BILL OF MATERIAL (PER FIRST LAYER UNIT) | | |
|---|------------------------|------------|
| TYPE STACK | 1" X 6" DUNNAGE LUMBER | |
| | LINEAR FEET | BOARD FEET |
| LENGTHWISE | 8 | 4 |
| CROSSWISE | 13 | 6.5 |

STORAGE IN 52'-0" DIA CORBETTA MAGAZINE

ITEM QUANTITY
 PALLET UNIT - - - - - 195



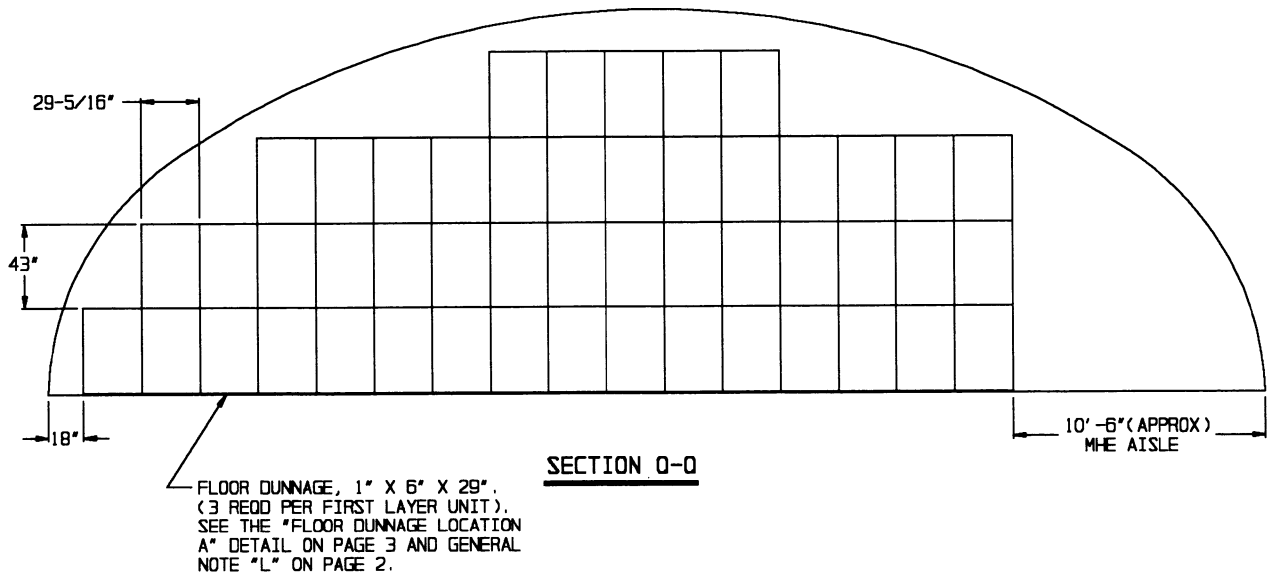
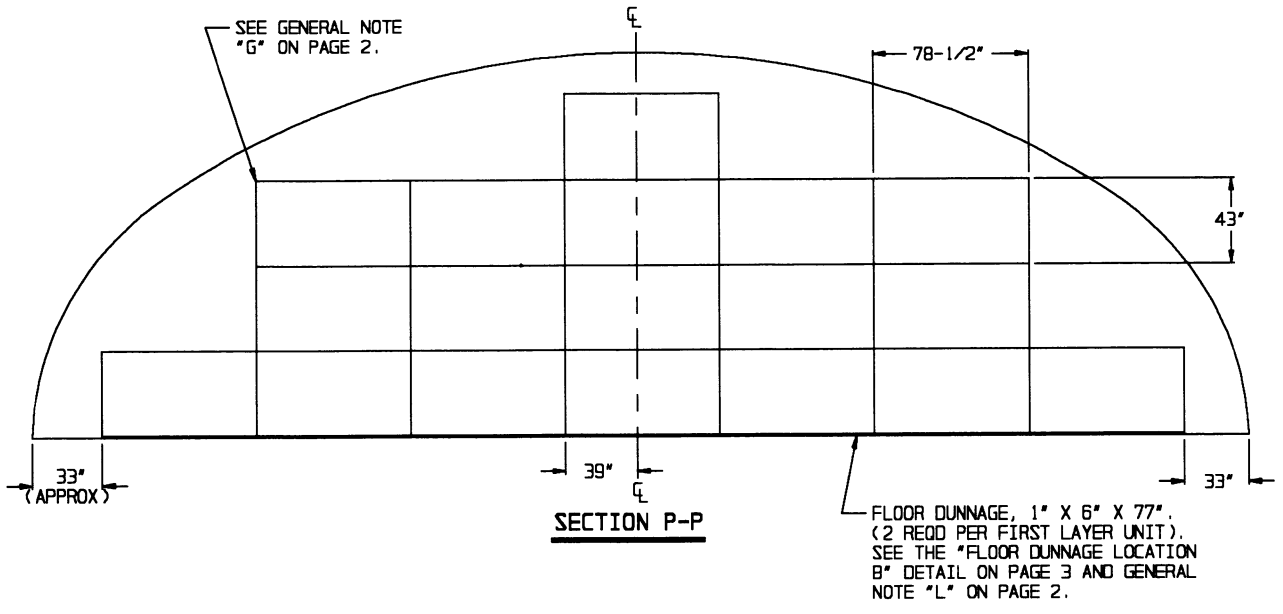
ARROWS INDICATE NOSE END OF CONTAINERS. SEE GENERAL NOTE "E" ON PAGE 2.

NUMBERS INDICATE LAYERS HIGH THAT PALLET UNITS ARE STACKED.

SEE GENERAL NOTE "H" ON PAGE 2.

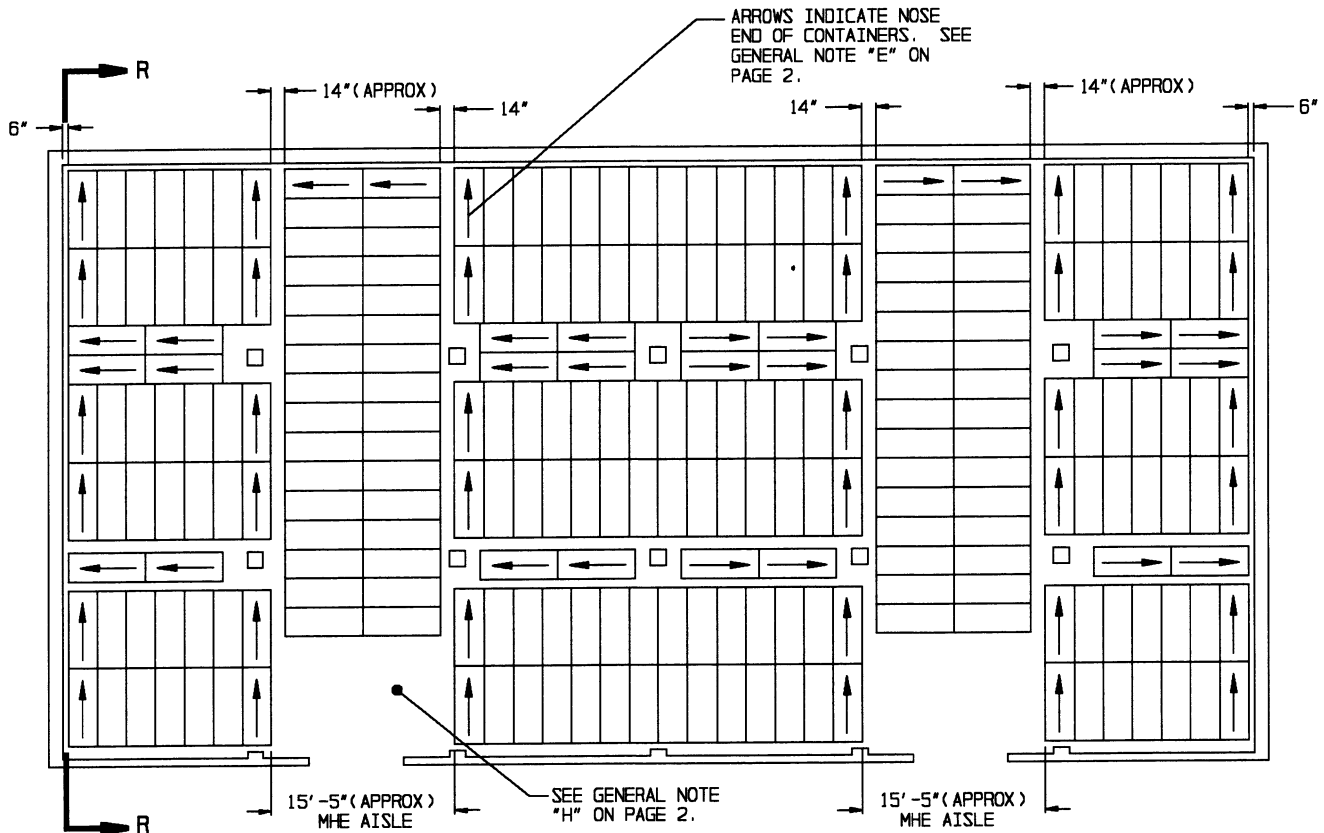
PLAN VIEW
 (52'-0" DIA MAGAZINE)

STORAGE PROCEDURES IN 52'-0" DIA CORBETTA MAGAZINE

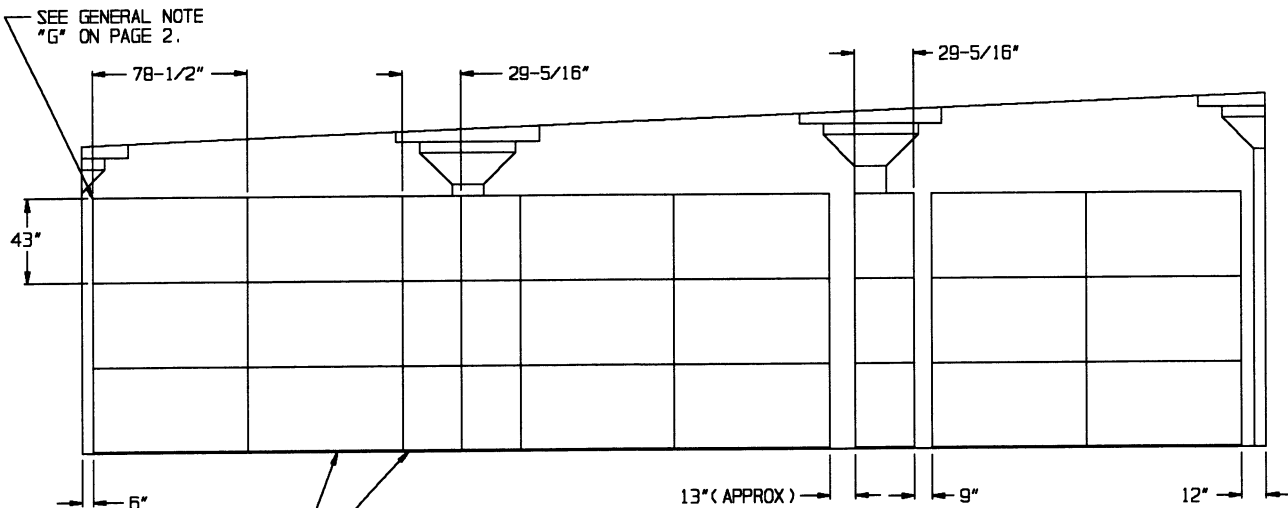


FOR "GENERAL NOTES" AND "MATERIAL SPECIFICATIONS", SEE PAGE 2.

| BILL OF MATERIAL (PER FIRST LAYER UNIT) | | |
|---|------------------------|------------|
| TYPE STACK | 1" X 6" DUNNAGE LUMBER | |
| | LINEAR FEET | BOARD FEET |
| LENGTHWISE | 8 | 4 |
| CROSSWISE | 13 | 6.5 |



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

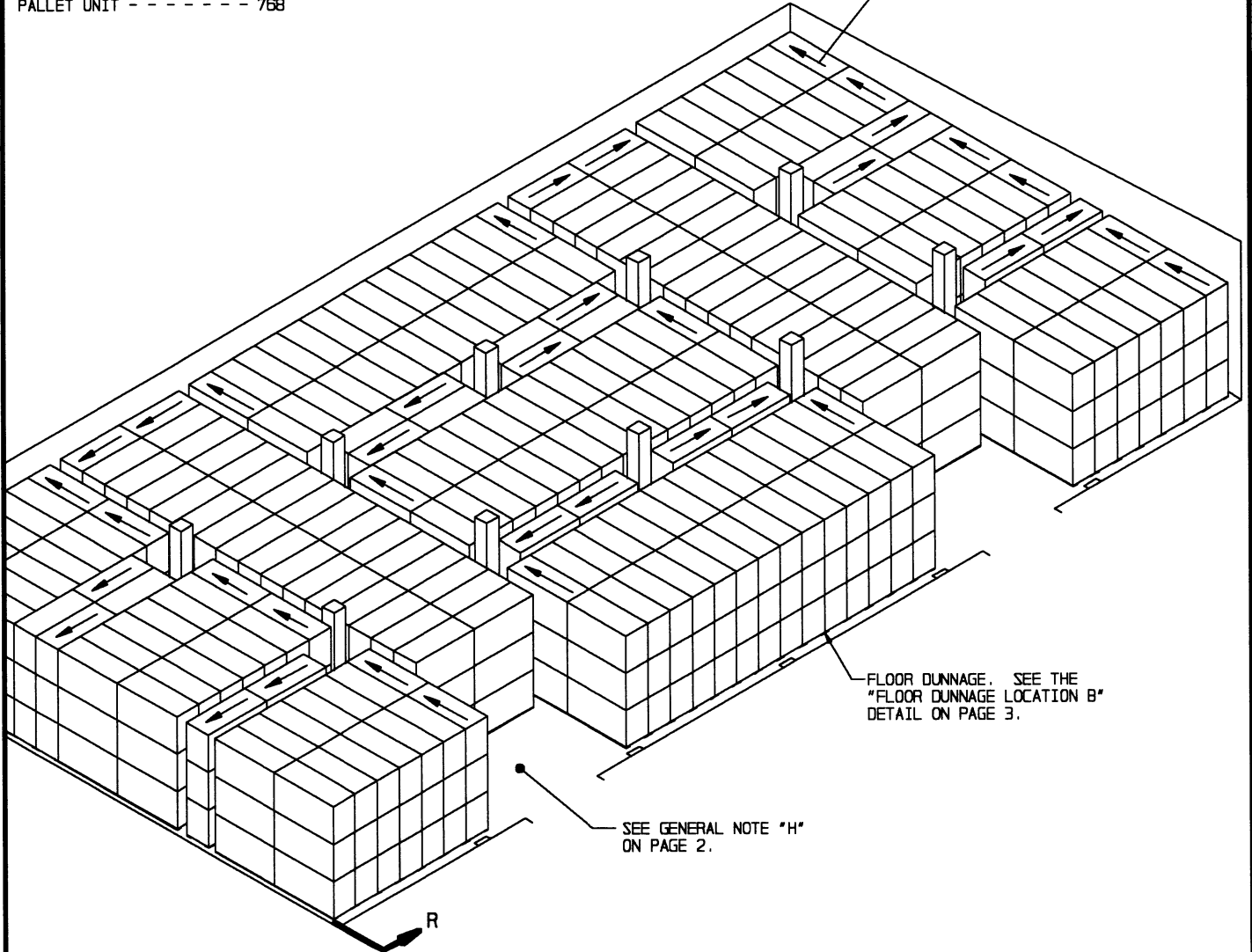


SECTION R-R
FLOOR DUNNAGE, 1" X 6" X 77".
(2 REOD PER FIRST LAYER UNIT).
SEE THE "FLOOR DUNNAGE LOCATION
B" DETAIL ON PAGE 3 AND GENERAL
NOTE "L" ON PAGE 2.

STORAGE IN 100'-8" X 50'-0" MAGAZINE

| ITEM | QUANTITY |
|-----------------------|----------|
| PALLET UNIT - - - - - | 768 |

ARROWS INDICATE NOSE END OF CONTAINERS. SEE GENERAL NOTE "E" ON PAGE 2.



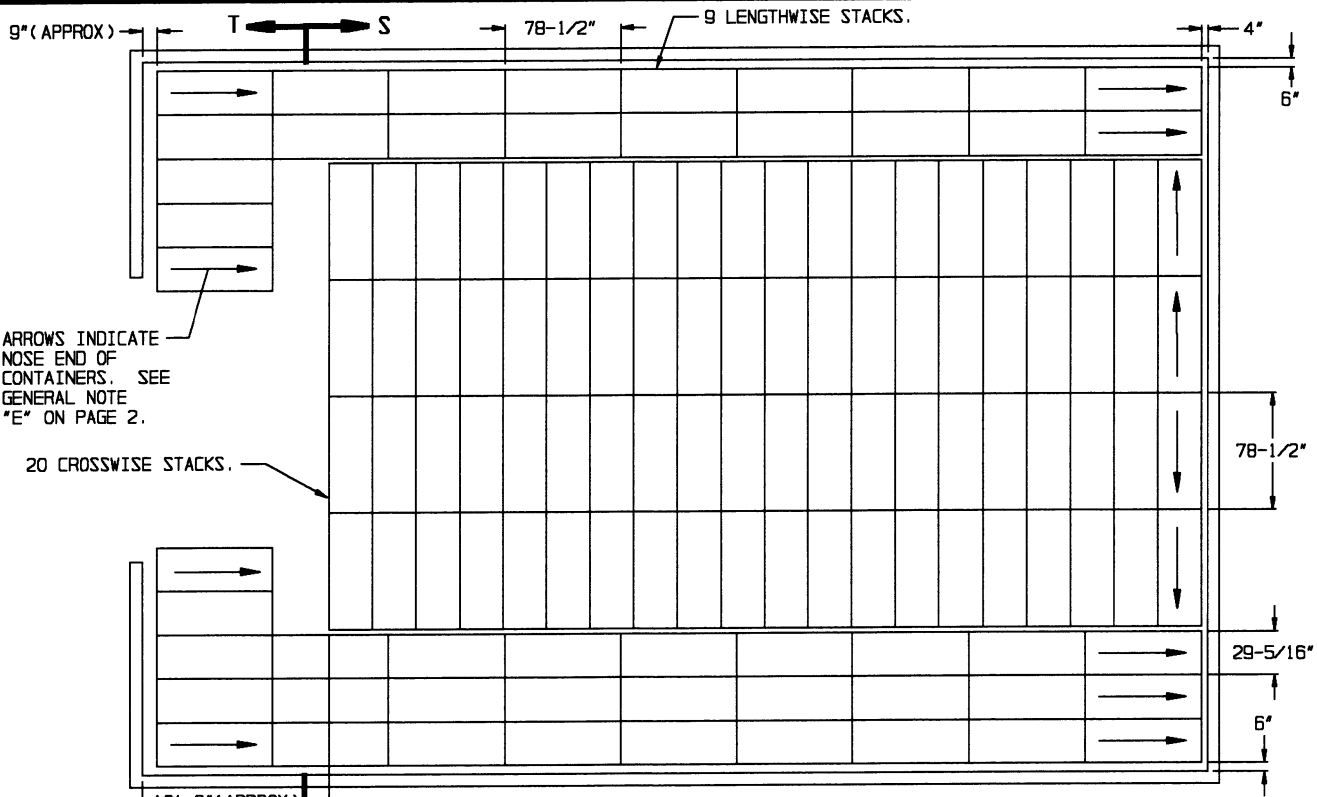
FLOOR DUNNAGE. SEE THE "FLOOR DUNNAGE LOCATION B" DETAIL ON PAGE 3.

SEE GENERAL NOTE "H" ON PAGE 2.

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 UNIT) | | |
|---|------------------------|------------|
| ALL STACKS | 1" X 6" DUNNAGE LUMBER | |
| | LINEAR FEET | BOARD FEET |
| | 13 | 6.5 |

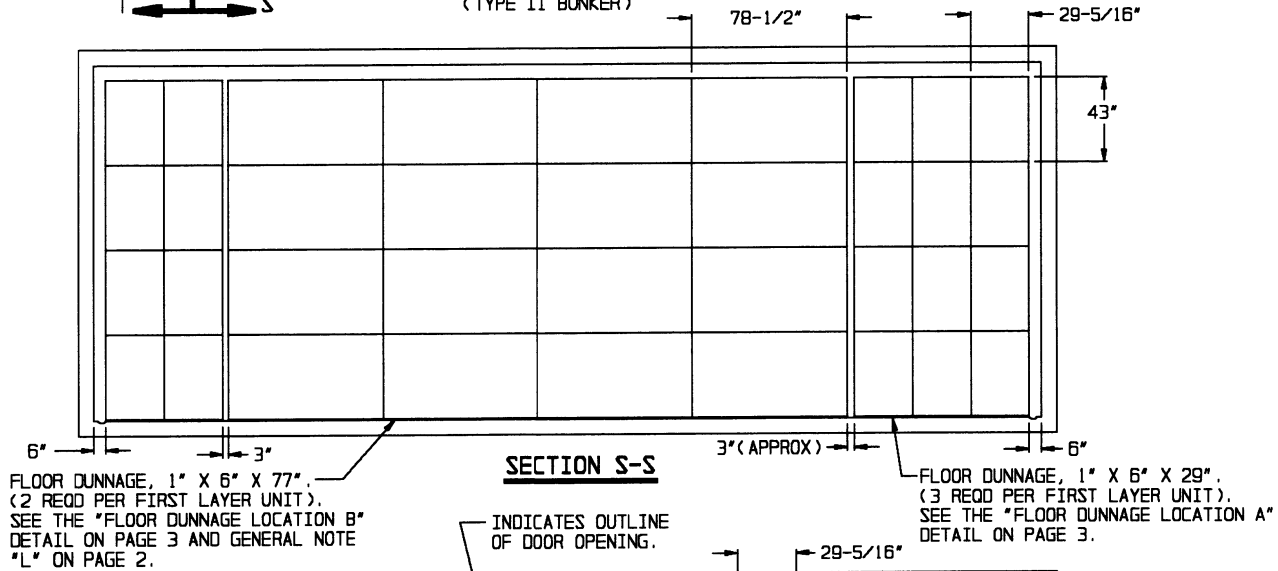


ARROWS INDICATE NOSE END OF CONTAINERS. SEE GENERAL NOTE "E" ON PAGE 2.

20 CROSSWISE STACKS.

10'-6" (APPROX) MHE AISLE

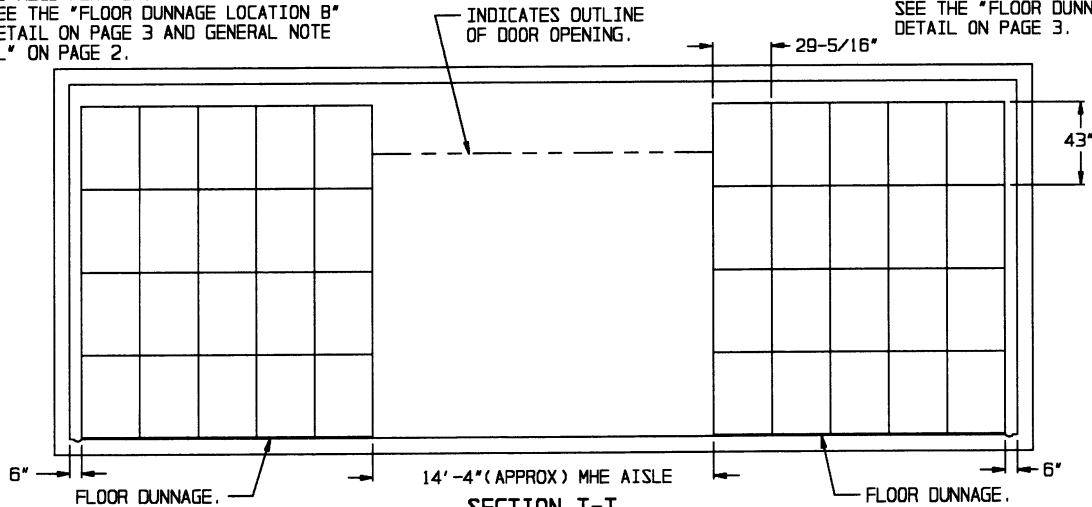
PLAN VIEW
(TYPE II BUNKER)



FLOOR DUNNAGE, 1" X 6" X 77". (2 REQD PER FIRST LAYER UNIT). SEE THE "FLOOR DUNNAGE LOCATION B" DETAIL ON PAGE 3 AND GENERAL NOTE "L" ON PAGE 2.

SECTION S-S

FLOOR DUNNAGE, 1" X 6" X 29". (3 REQD PER FIRST LAYER UNIT). SEE THE "FLOOR DUNNAGE LOCATION A" DETAIL ON PAGE 3.



FLOOR DUNNAGE.

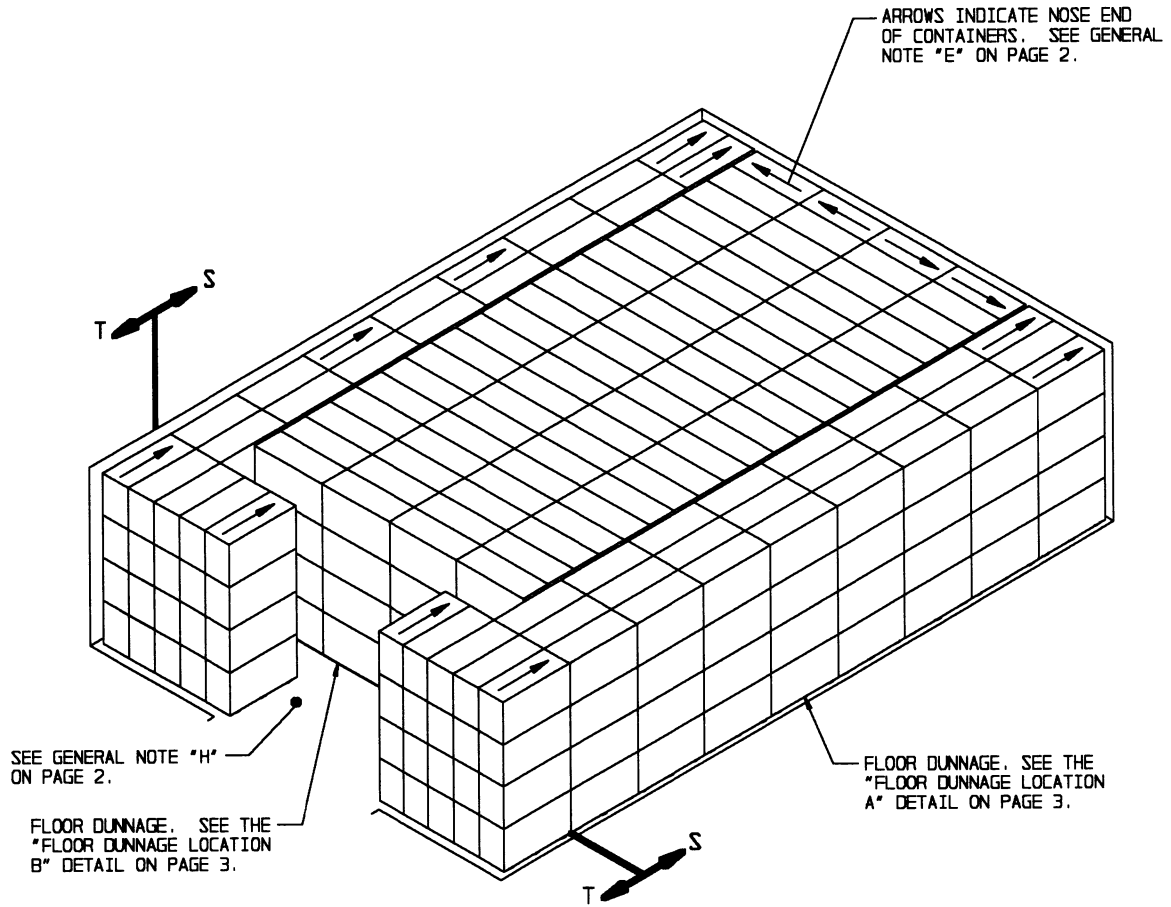
14'-4" (APPROX) MHE AISLE

SECTION T-T

FLOOR DUNNAGE.

STORAGE IN TYPE II BUNKER

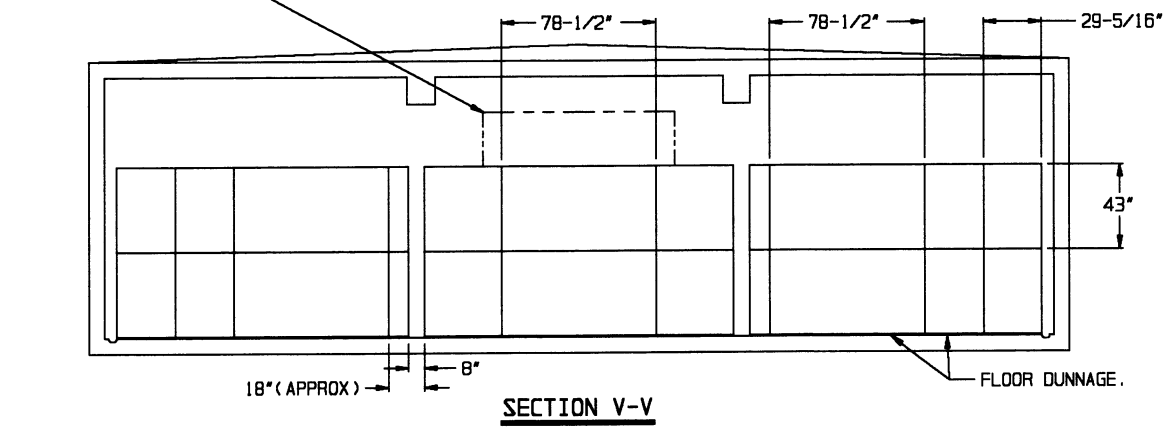
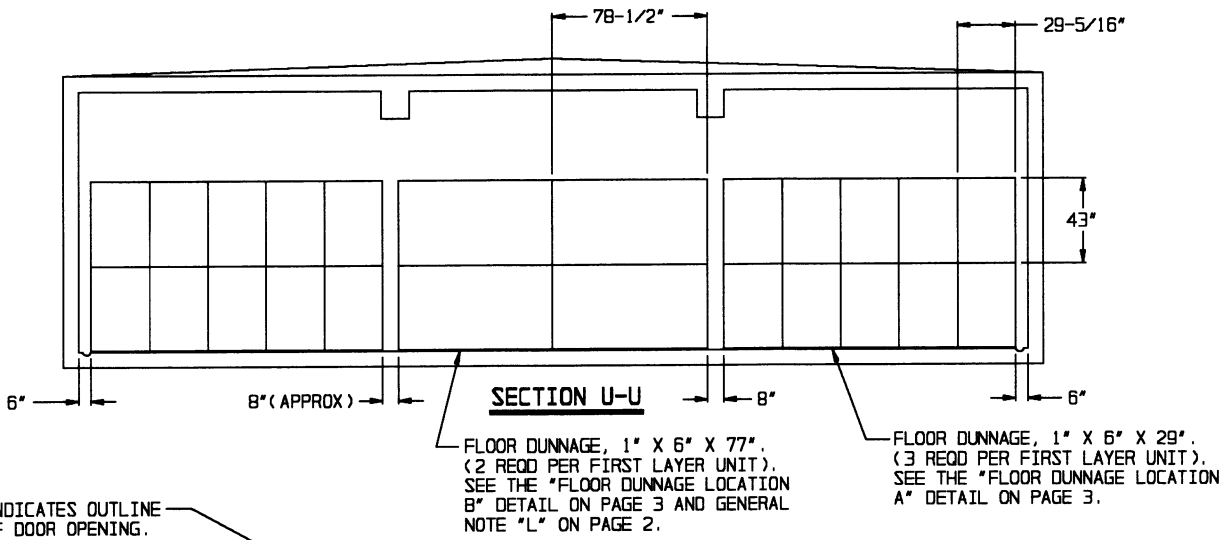
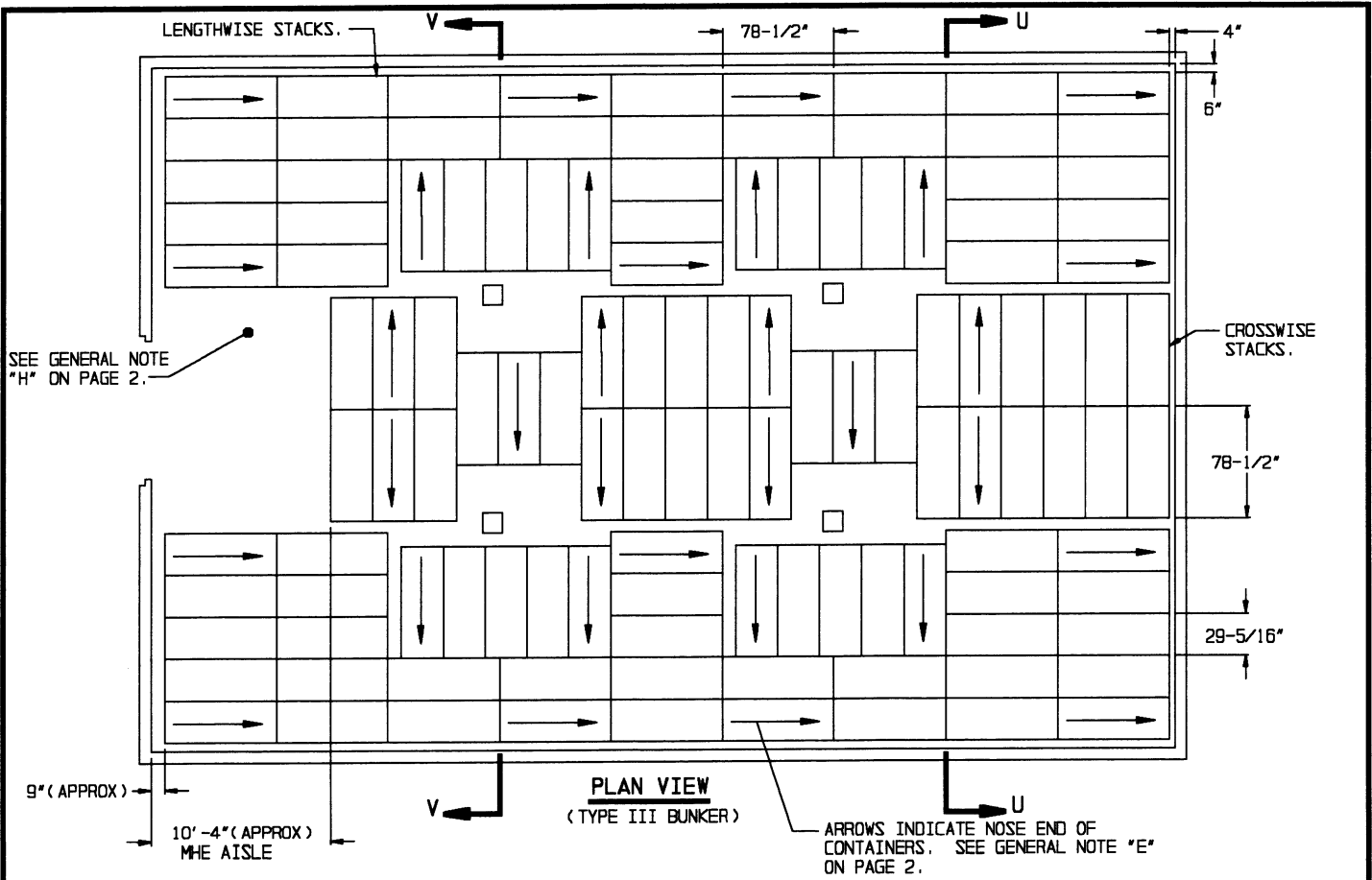
| ITEM | QUANTITY |
|-----------------------|----------|
| PALLET UNIT - - - - - | 520 |



ISOMETRIC VIEW
(TYPE II BUNKER)

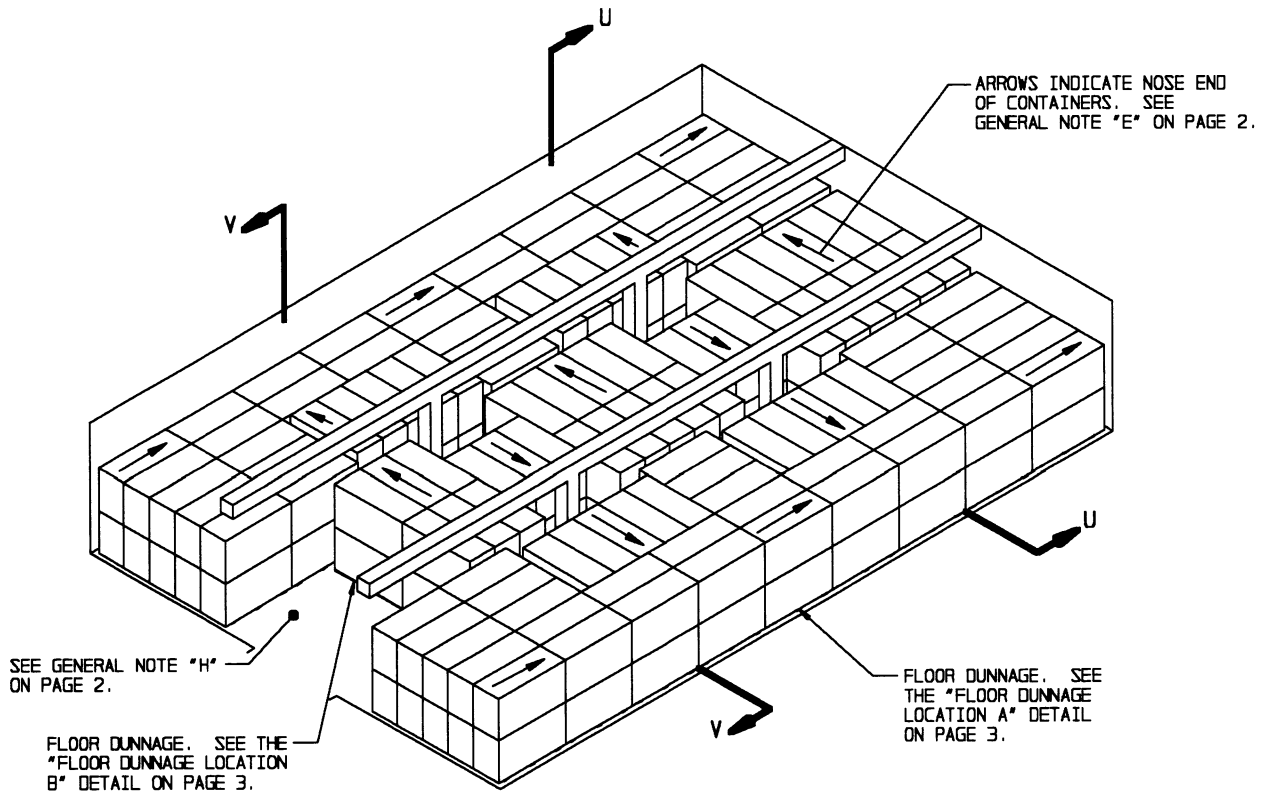
FOR "GENERAL NOTES" AND "MATERIAL SPECIFICATIONS", SEE PAGE 2.

| BILL OF MATERIAL (PER FIRST LAYER UNIT) | | |
|---|------------------------|------------|
| TYPE STACK | 1" X 6" DUNNAGE LUMBER | |
| | LINEAR FEET | BOARD FEET |
| LENGTHWISE | 8 | 4 |
| CROSSWISE | 13 | 6.5 |



STORAGE IN TYPE III BUNKER

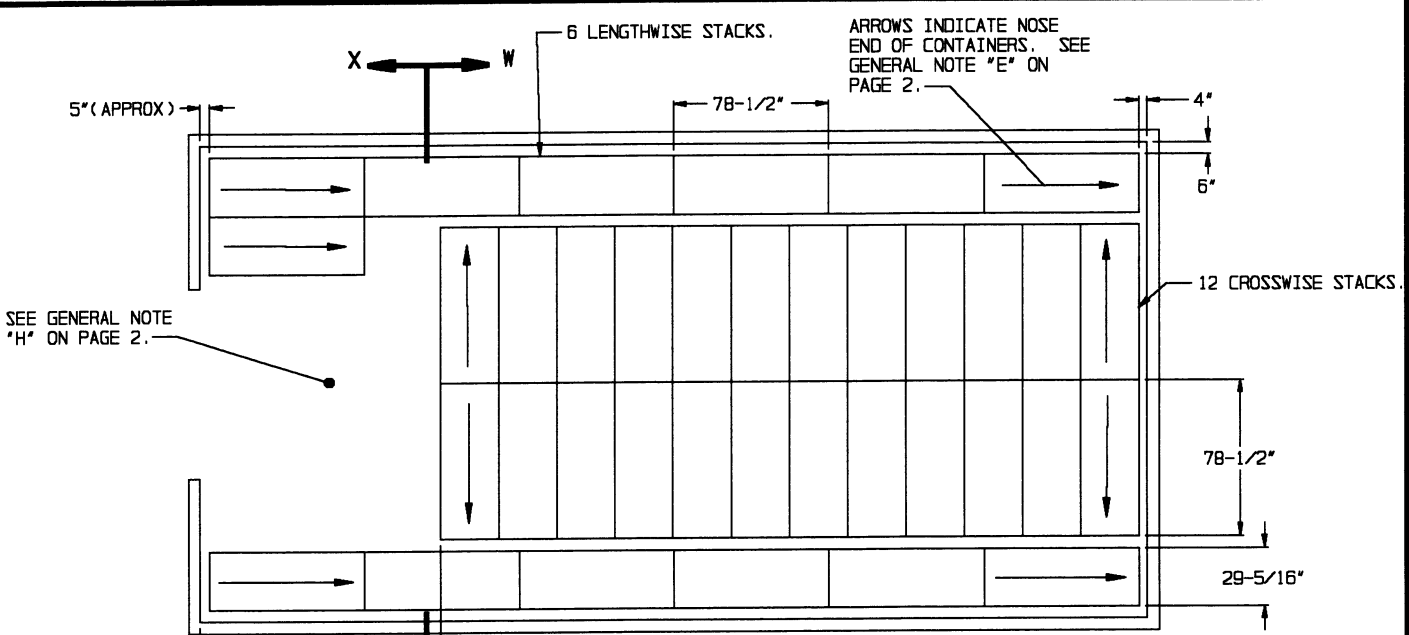
| ITEM | QUANTITY |
|-----------------------|----------|
| PALLET UNIT - - - - - | 240 |



ISOMETRIC VIEW
(TYPE III BUNKER)

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

| BILL OF MATERIAL (PER FIRST LAYER UNIT) | | |
|---|------------------------|------------|
| TYPE STACK | 1" X 6" DUNNAGE LUMBER | |
| | LINEAR FEET | BOARD FEET |
| LENGTHWISE | 8 | 4 |
| CROSSWISE | 13 | 6.5 |

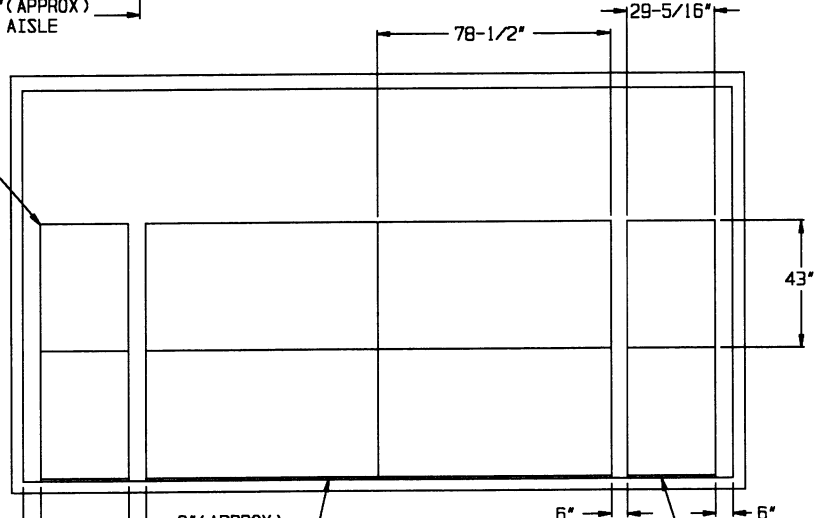


SEE GENERAL NOTE "H" ON PAGE 2.

ARROWS INDICATE NOSE END OF CONTAINERS. SEE GENERAL NOTE "E" ON PAGE 2.

PLAN VIEW
(TYPE IV BUNKER)

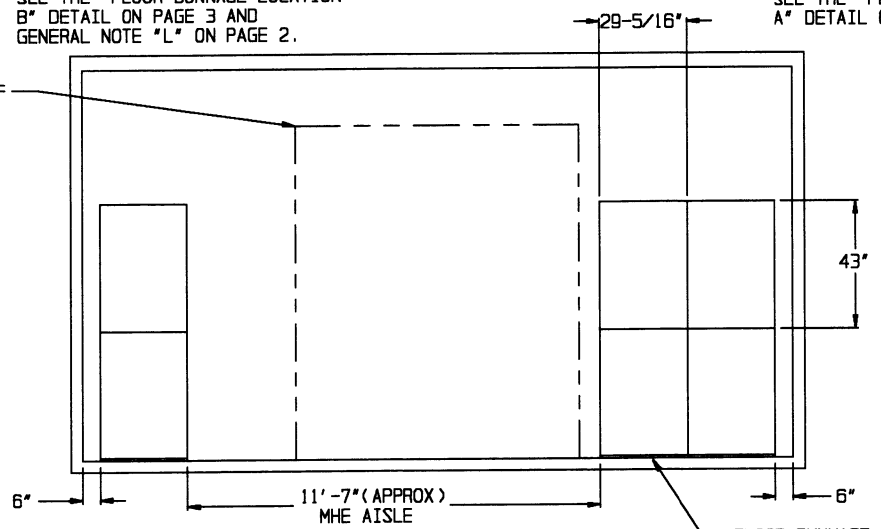
SEE GENERAL NOTE "G" ON PAGE 2.



SECTION W-W
FLOOR DUNNAGE, 1" X 6" X 77"
(2 REQD PER FIRST LAYER UNIT).
SEE THE "FLOOR DUNNAGE LOCATION B" DETAIL ON PAGE 3 AND GENERAL NOTE "L" ON PAGE 2.

FLOOR DUNNAGE, 1" X 6" X 29"
(3 REQD PER FIRST LAYER UNIT).
SEE THE "FLOOR DUNNAGE LOCATION A" DETAIL ON PAGE 3.

INDICATES OUTLINE OF DOOR OPENING.

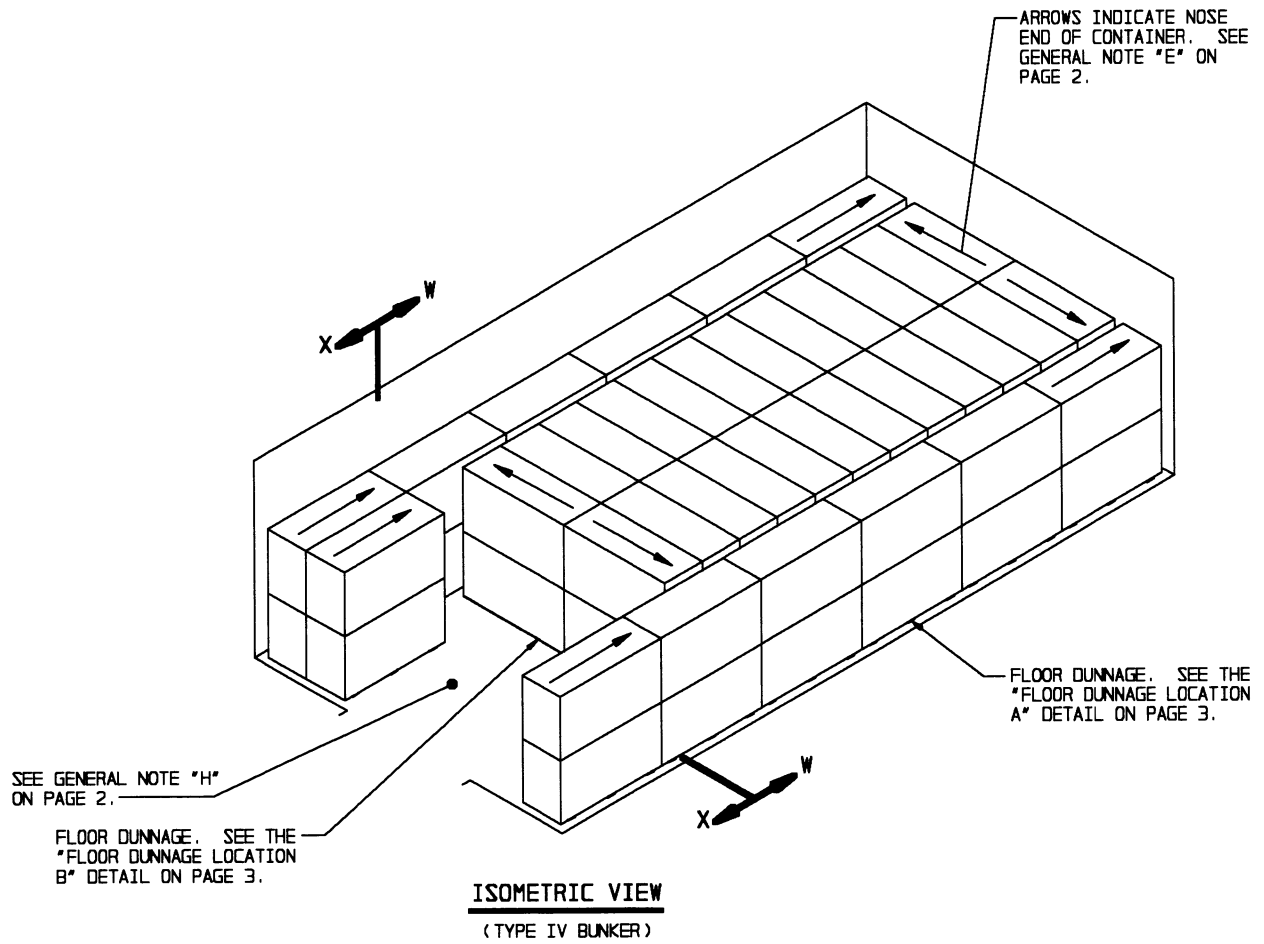


SECTION X-X

STORAGE PROCEDURES IN 40'-0" L X 20'-0" W X 11'-0" H TYPE IV BUNKER

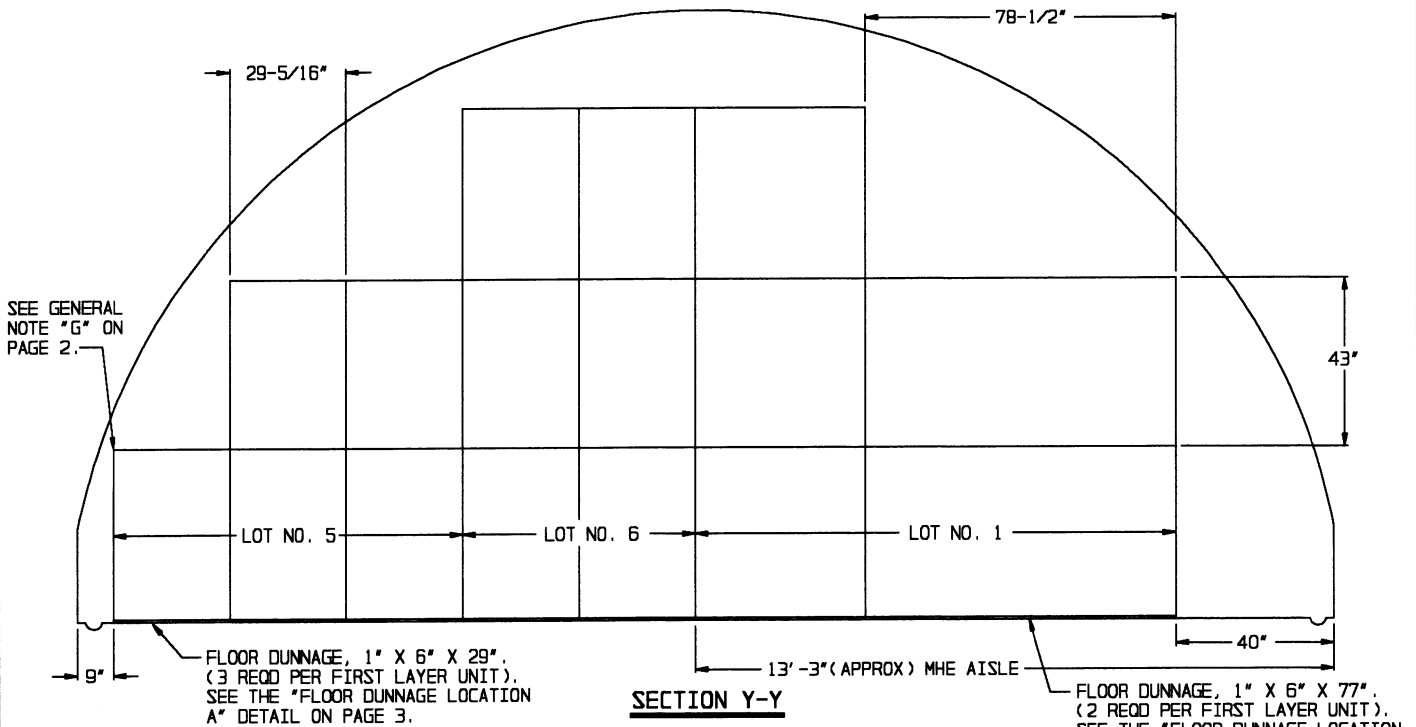
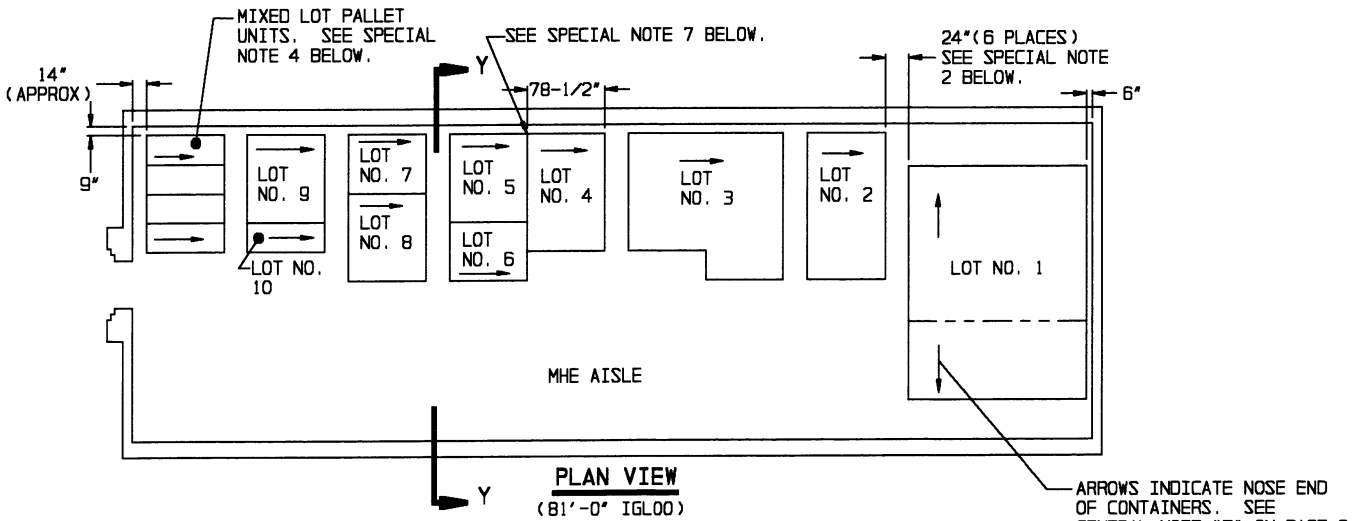
STORAGE IN TYPE IV BUNKER

| ITEM | QUANTITY |
|---------------------|----------|
| CONTAINER - - - - - | 74 |



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

| BILL OF MATERIAL (PER FIRST LAYER UNIT) | | |
|---|------------------------|------------|
| TYPE STACK | 1" X 6" DUNNAGE LUMBER | |
| | LINEAR FEET | BOARD FEET |
| LENGTHWISE | 8 | 4 |
| CROSSWISE | 13 | 6.5 |



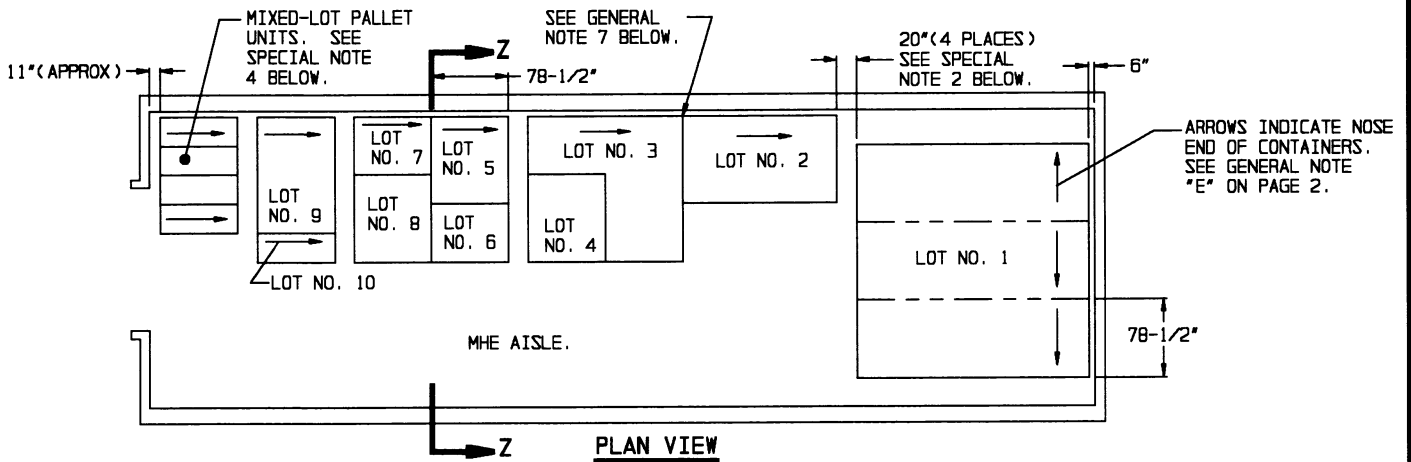
SPECIAL NOTES:

1. THE STORAGE PLANS AND CONFIGURATIONS SHOWN ON THIS PAGE ARE TYPICAL ONLY AND APPLY TO STORAGE OF NUMEROUS LOTS. ADAPTATIONS MAY BE MADE AS NUMBER AND SIZES OF LOTS TO BE STORED IN MAGAZINE REQUIRE.
2. AN INSPECTION/INVENTORY AISLE NOT LESS THAN 18" WIDE MUST BE PROVIDED AT ONE SIDE OR END OF EACH LOT.
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 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 CONTAINERS WITHIN THAT UNIT. HOWEVER, ALL LOTS WITHIN THE PALLET UNIT MUST HAVE THE SAME NATIONAL STOCK NUMBER AND CONDITION CODE.

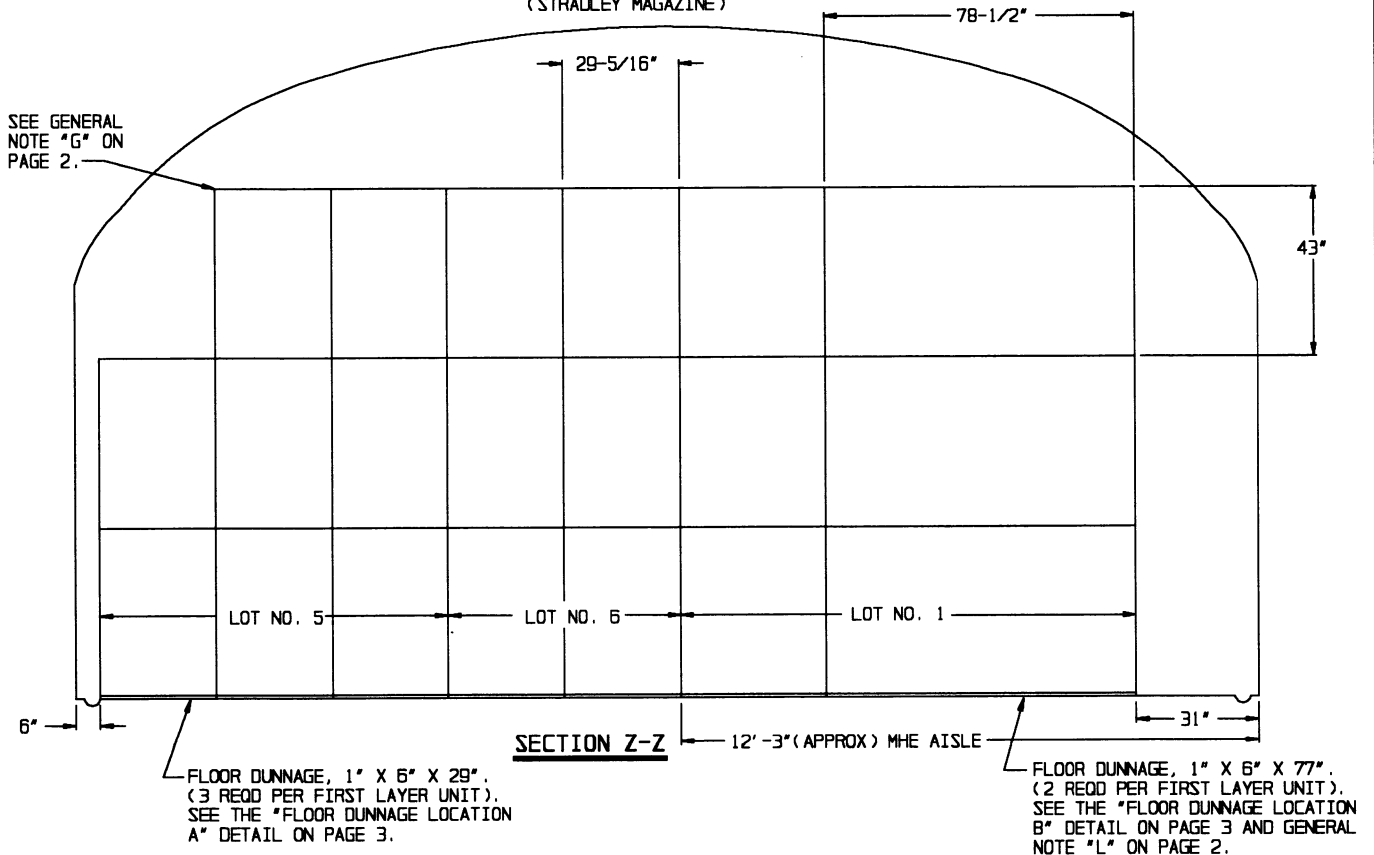
(CONTINUED AT RIGHT)

(SPECIAL NOTES CONTINUED)

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 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.
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, THEY SHOULD BE SEPARATED BY AT LEAST 1" TO PROVIDE CLEARANCE FOR REMOVAL OF EITHER LOT.



PLAN VIEW
(STRADLEY MAGAZINE)



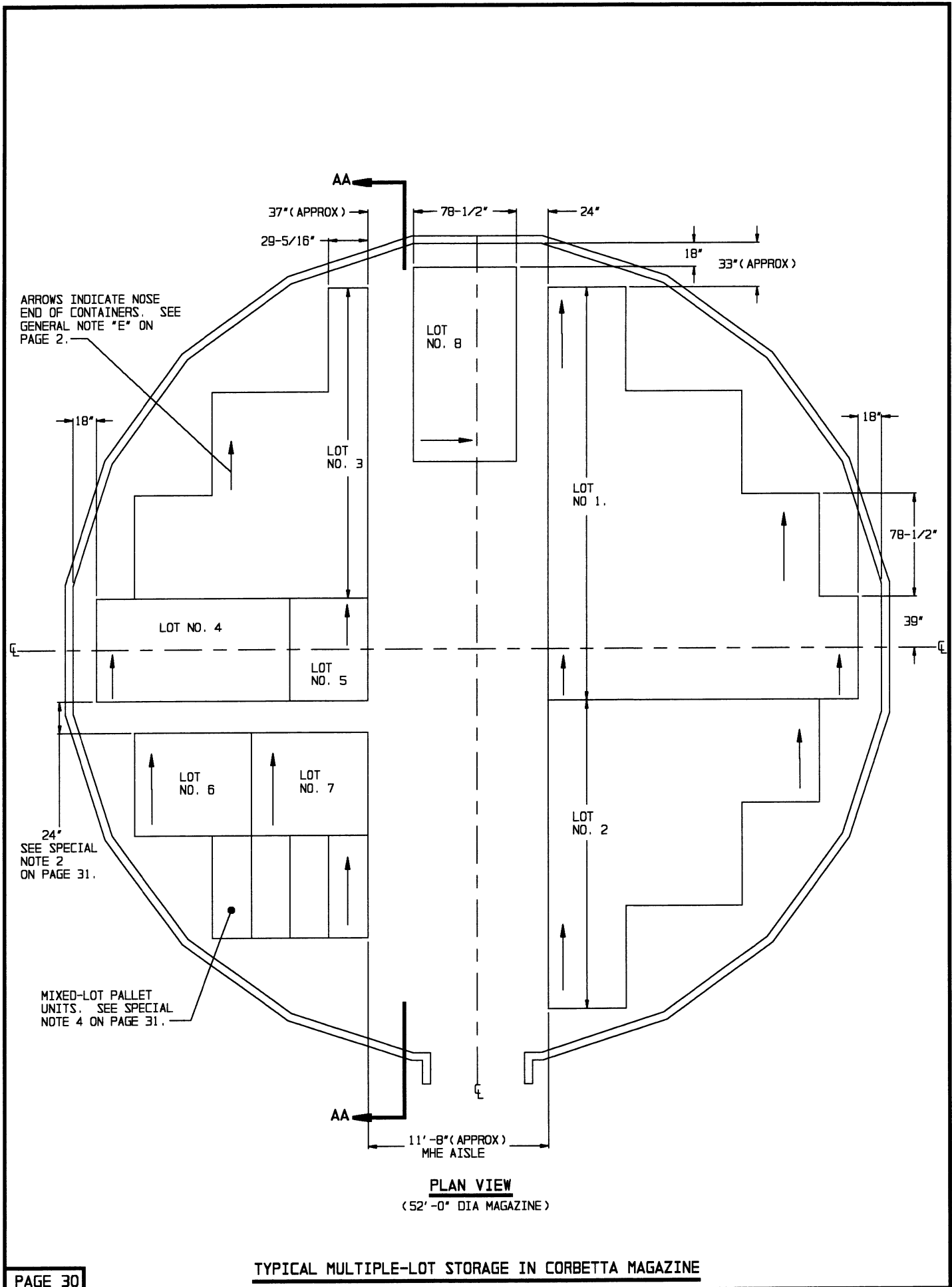
SPECIAL NOTES:

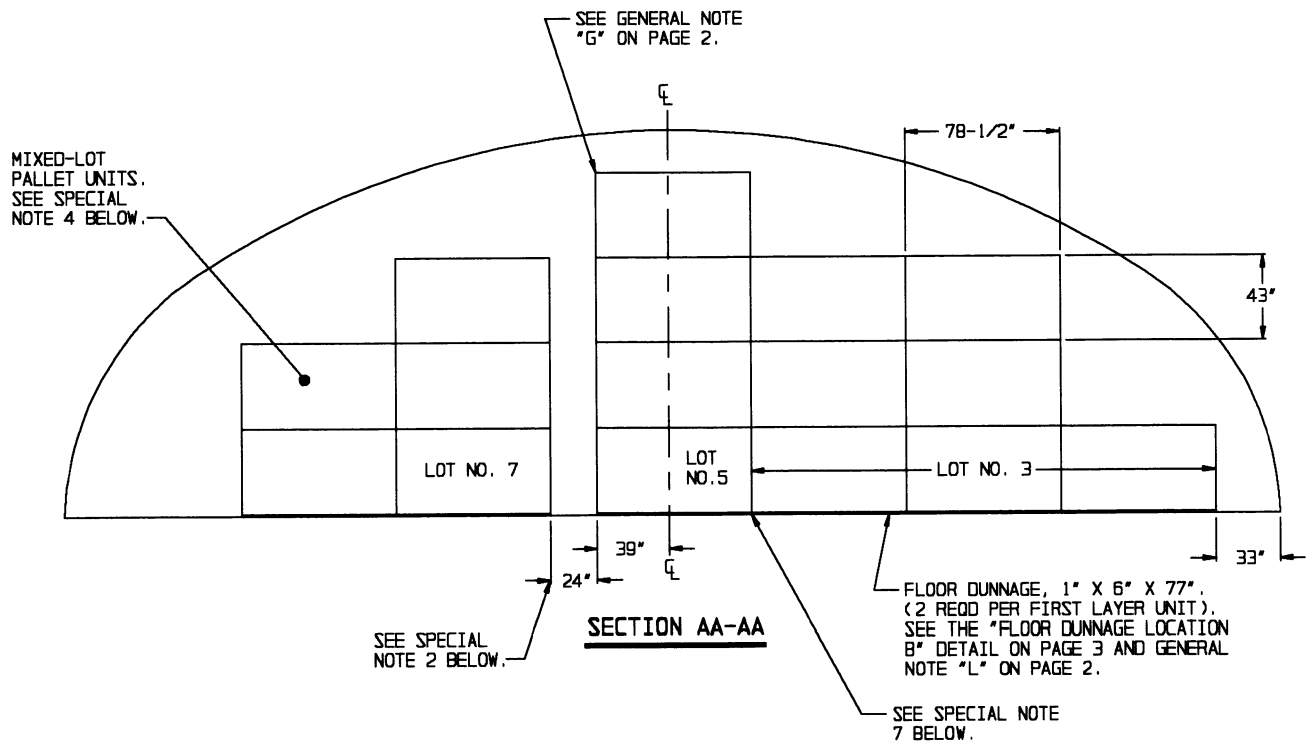
1. THE STORAGE PLANS AND CONFIGURATIONS SHOWN ON THIS PAGE ARE TYPICAL ONLY AND APPLY TO STORAGE OF NUMEROUS LOTS. ADAPTATIONS MAY BE MADE AS NUMBER AND SIZES OF LOTS TO BE STORED IN MAGAZINE REQUIRE.
2. AN INSPECTION/INVENTORY AISLE NOT LESS THAN 18" WIDE MUST BE PROVIDED AT ONE SIDE OR END OF EACH LOT.
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 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 CONTAINERS WITHIN THAT UNIT. HOWEVER, ALL LOTS WITHIN THE PALLET UNIT MUST HAVE THE SAME NATIONAL STOCK NUMBER AND CONDITION CODE.

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(SPECIAL NOTES CONTINUED)

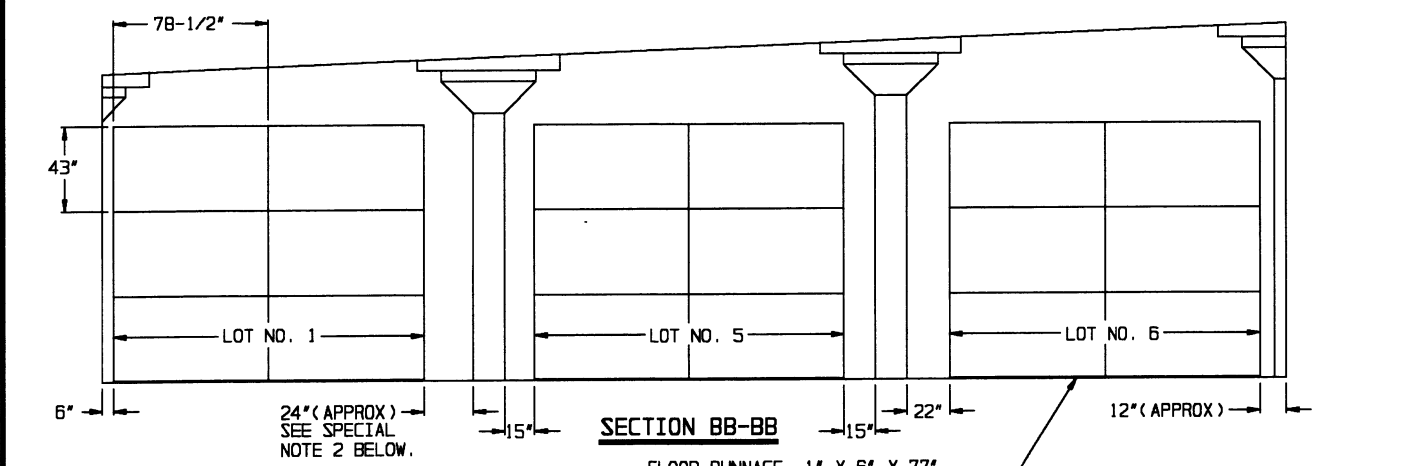
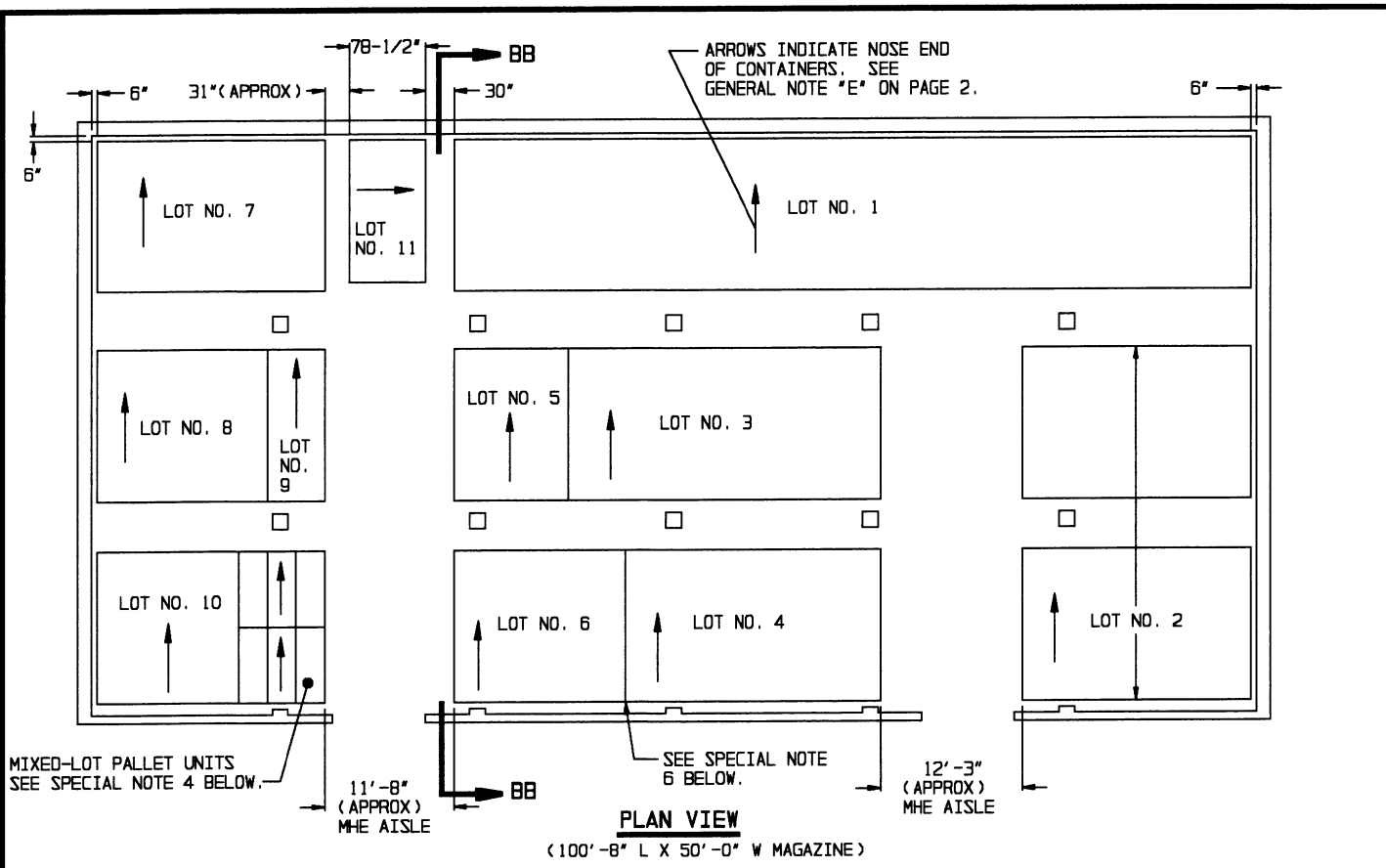
5. EACH LOT WITHIN THE MAGAZINE MUST BE ACCESSIBLE FOR MOVEMENT BY MHE. PALLET UNITS OF A SINGLE-LOT OR MIXED-LOT PALLET UNITS ARE CONSIDERED "ACCESSIBLE" IF NO MORE THAN TWELVE (12) "LIFTS" OF ANOTHER LOT OR LOTS HAVE TO BE MADE TO GAIN ACCESS TO THE SINGLE-LOT OR MIXED-LOT UNITS. A "LIFT" MAY CONSIST OF ONE (1) OR MORE PALLET UNITS, PROVIDING THE CAPACITY OF MHE PERMITS, AND SAFE HANDLING IS NOT JEOPARDIZED.
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, THEY SHOULD BE SEPARATED BY AT LEAST 1" TO PROVIDE CLEARANCE FOR REMOVAL OF EITHER LOT.





SPECIAL NOTES:

1. THE STORAGE PLANS AND CONFIGURATIONS SHOWN ON THIS PAGE AND ON PAGE 30 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 18" WIDE MUST BE PROVIDED AT ONE SIDE OR END OF EACH LOT.
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 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 CONTAINERS WITHIN THAT UNIT, HOWEVER, ALL 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 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 TWO (2) PALLET UNITS, PROVIDING THE CAPACITY OF MHE PERMITS, AND SAFE HANDLING IS NOT JEOPARDIZED.
6. FOR STORAGE OF MULTIPLE LOTS, THE DISTANCE FROM THE WALL WILL BE BASED ON THE OVERHEAD CLEARANCE REQUIRED FOR MHE.
7. WHEN TWO LOTS ARE STORED ADJACENT TO EACH OTHER, THEY SHOULD BE SEPARATED BY AT LEAST 1" TO PROVIDE CLEARANCE FOR REMOVAL OF EITHER LOT.

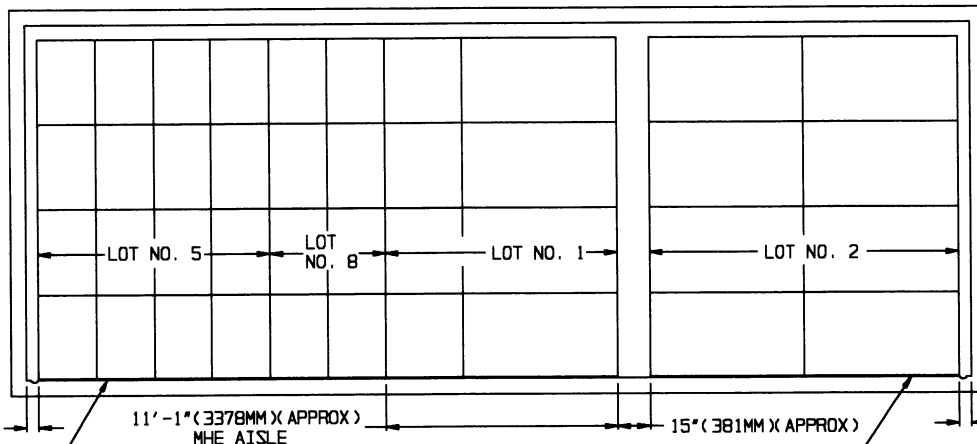
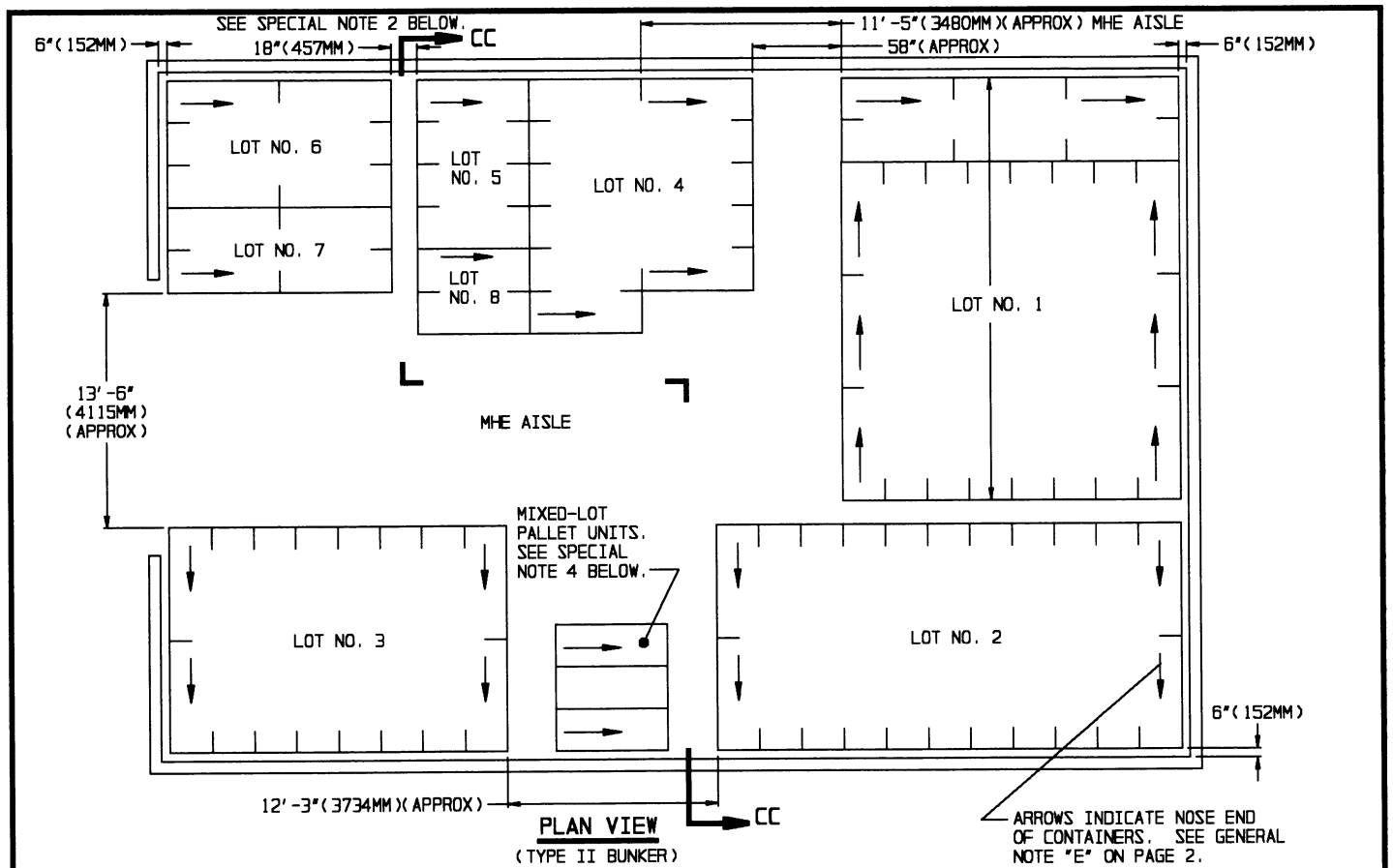


SPECIAL NOTES:

1. THE STORAGE PLANS 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 18" WIDE MUST BE PROVIDED AT ONE SIDE OR END OF EACH LOT.
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 IN THE CENTER AREA. 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 CONTAINERS WITHIN THAT UNIT. HOWEVER, ALL CONTAINERS 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 NO 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 MHE PERMITS, AND SAFE HANDLING IS NOT JEOPARDIZED.
6. WHEN TWO LOTS ARE STORED ADJACENT TO EACH OTHER THEY SHOULD BE SEPARATED BY AT LEAST 1" TO PROVIDE CLEARANCE FOR REMOVAL OF EITHER LOT.

(SPECIAL NOTES CONTINUED)

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SPECIAL NOTES:

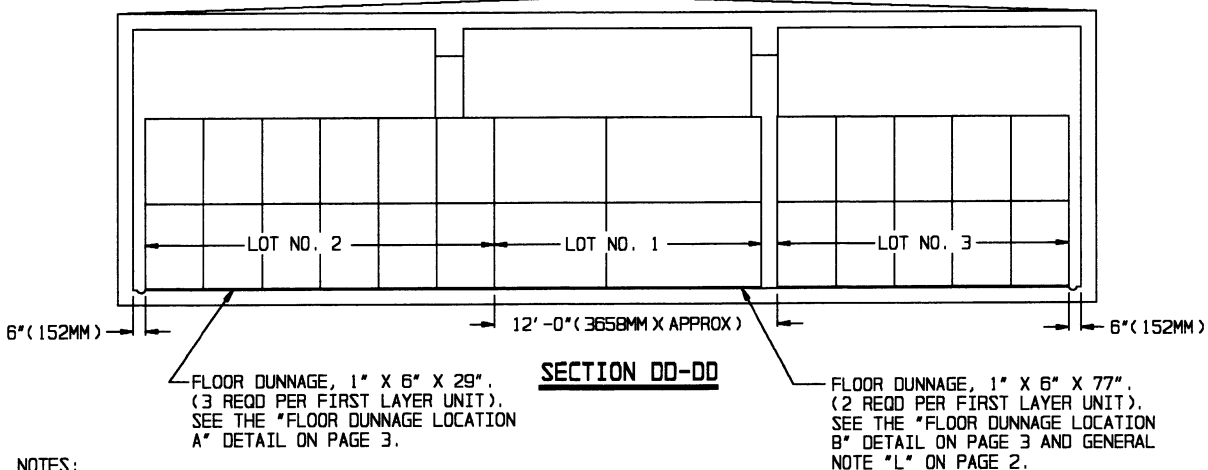
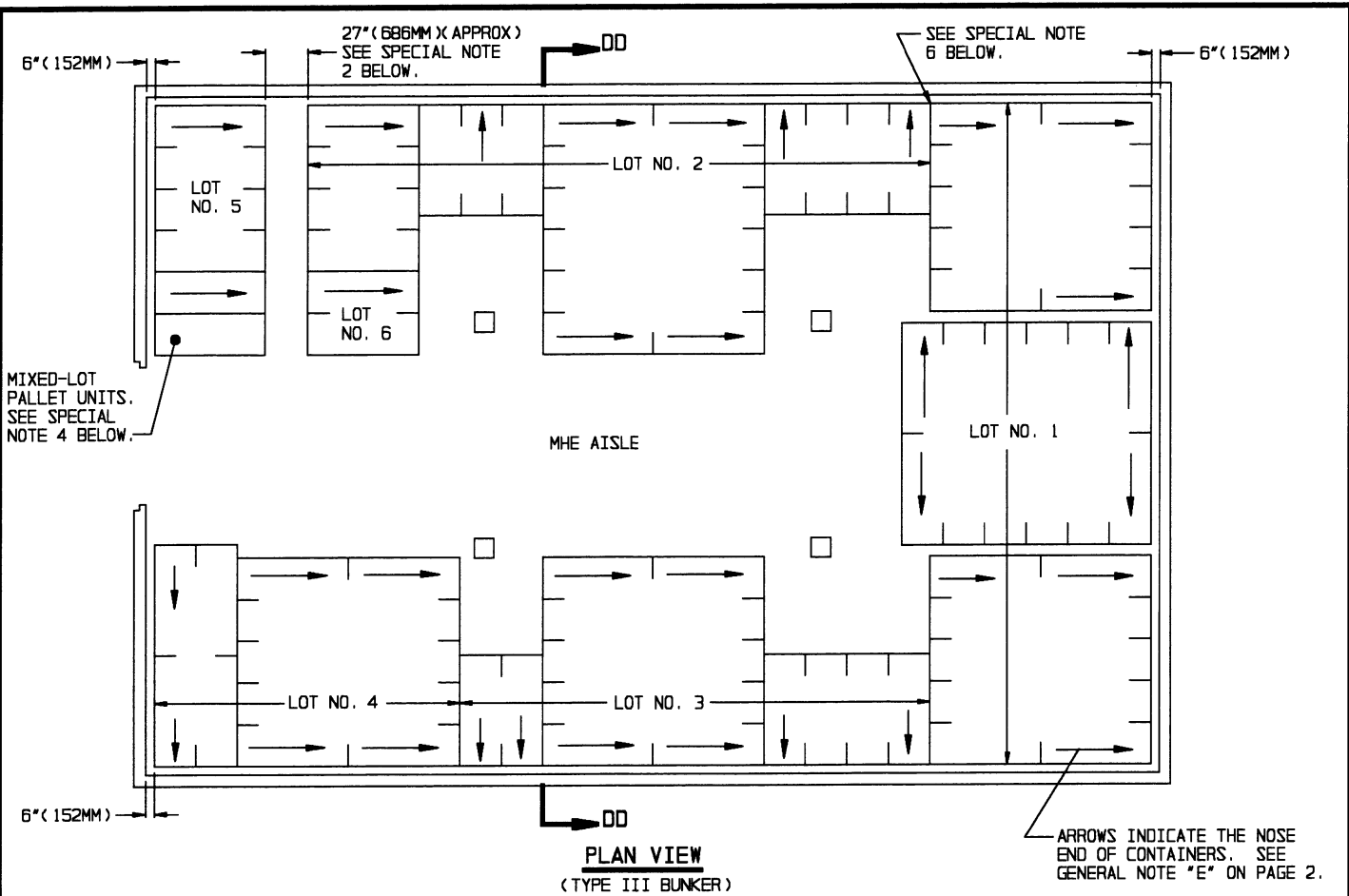
1. THE STORAGE PLANS AND CONFIGURATIONS SHOWN ON THIS PAGE ARE TYPICAL ONLY, AND APPLY TO STORAGE OF NUMEROUS LOTS. ADAPTATIONS MAY BE MADE AS NUMBER AND SIZES OF LOTS TO BE STORED IN BUNKER REQUIRE.
2. AN INSPECTION/INVENTORY AISLE NOT LESS THAN 18" WIDE MUST BE PROVIDED AT ONE SIDE OR END OF EACH LOT.
3. GENERALLY, THE LARGEST LOT SHOULD BE STORED IN THE REAR OF THE BUNKER, 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 PROVIDED AS REQUIRED SO THAT 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. A MIXED-LOT PALLET UNIT MAY HAVE FROM TWO LOTS PER PALLET UNIT UPWARDS TO AS MANY DIFFERENT LOTS AS CONTAINERS WITHIN THAT UNIT. HOWEVER, ALL CONTAINERS AND LOTS WITHIN THE PALLET UNIT MUST HAVE THE SAME NATIONAL STOCK NUMBER AND CONDITION CODE.

(SPECIAL NOTES CONTINUED)

5. EACH LOT WITHIN THE BUNKER MUST BE ACCESSIBLE FOR MOVEMENT 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 TWO (2) PALLET UNITS, PROVIDING THE CAPACITY OF MHE PERMITS, AND SAFE HANDLING IS NOT JEOPARDIZED.
6. WHEN TWO LOTS ARE STORED ADJACENT TO EACH OTHER THEY SHOULD BE SEPARATED BY AT LEAST 1" TO PROVIDE CLEARANCE FOR REMOVAL OF EITHER LOT.

(CONTINUED AT RIGHT)

TYPICAL MULTIPLE-LOT STORAGE IN 60'-0" L X 40'-0" W X 15'-0" H TYPE II BUNKER



SPECIAL NOTES:

1. THE STORAGE PLANS AND CONFIGURATIONS SHOWN ON THIS PAGE ARE TYPICAL ONLY, AND APPLY TO STORAGE OF NUMEROUS LOTS. ADAPTATIONS MAY BE MADE AS NUMBER AND SIZES OF LOTS TO BE STORED IN BUNKER REQUIRE.
2. AN INSPECTION/INVENTORY AISLE NOT LESS THAN 18" WIDE MUST BE PROVIDED AT ONE SIDE OR END OF EACH LOT.
3. GENERALLY, THE LARGEST LOT SHOULD BE STORED IN THE REAR OF THE BUNKER, HOWEVER, THE REAR AREA MAY BE USED TO STORE MORE THAN ONE LOT BY ERECTING STACKS SIMILAR TO THOSE SHOWN IN THE FRONT AREA. AN MHE AISLE WILL BE PROVIDED AS REQUIRED SO THAT 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. A MIXED-LOT PALLET UNIT MAY HAVE FROM TWO LOTS PER PALLET UNIT UPWARDS TO AS MANY DIFFERENT LOTS AS CONTAINERS WITHIN THAT UNIT. HOWEVER, ALL CONTAINERS AND LOTS WITHIN THE PALLET UNIT MUST HAVE THE SAME NATIONAL STOCK NUMBER AND CONDITION CODE.

(SPECIAL NOTES CONTINUED)

5. EACH LOT WITHIN THE BUNKER MUST BE ACCESSIBLE FOR MOVEMENT 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 TWO (2) PALLET UNITS, PROVIDING THE CAPACITY OF MHE PERMITS, AND SAFE HANDLING IS NOT JEOPARDIZED.
6. WHEN TWO LOTS ARE STORED ADJACENT TO EACH OTHER THEY SHOULD BE SEPARATED BY AT LEAST 1" TO PROVIDE CLEARANCE FOR REMOVAL OF EITHER LOT.

(CONTINUED AT RIGHT)

TYPICAL MULTIPLE-LOT STORAGE IN 60'-0" L X 40'-0" W X 11'-0" H TYPE III BUNKER