

STORAGE IN APPROVED MAGAZINES OF CBU-MK20 AND MODS (ROCKEYE II) AND CBU-78/B (GATOR) PACKED IN MK18 MOD 0 CRADLE

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| U.S. ARMY MATERIEL COMMAND DRAWING | | | |
|--|---------------------------------|------------------------|----------------------|
| APPROVED, U.S. ARMY ARMAMENT, MUNITIONS AND CHEMICAL COMMAND <i>N/LH</i> <i>David A. Piskovt</i> AMSTA-AR-ESK | DRAFTSMAN | D. WHITMORE | |
| | ENGINEER | M. DAEUMER | |
| APPROVED BY ORDER OF COMMANDING GENERAL, U.S. ARMY MATERIEL COMMAND <i>William F Ernst</i> U.S. ARMY DEFENSE AMMUNITION CENTER AND SCHOOL | SUPPLY ENGINEERING DIVISION | <i>J M Sprague</i> | |
| | LOGISTICS ENGINEERING OFFICE | <i>Thomas J Michel</i> | |
| DECEMBER 1991 | | | |
| REVISION NO. 1 | AUGUST 1995 | CLASS | DIVISION |
| SEE REVISION LISTING ON PAGE 2 | | DRAWING | FILE |
| | | 19 | 48 |
| | | 7136 | SP1-3-4- 14-22J27 |

DO NOT SCALE

GENERAL NOTES

(GENERAL NOTES CONTINUED)

- A. THIS DOCUMENT HAS BEEN PREPARED AND ISSUED IN ACCORDANCE WITH AR 740-1 AND AUGMENTS TM 743-200-1 (CHAPTER 5).
- B. THE STORAGE PROCEDURES SPECIFIED HEREIN ARE APPLICABLE TO THE CBU-MK20 AND MODS (ROCKEYE II) AND CBU-78/B (GATOR) WHEN PACKED IN THE MK18 MOD 0 CRADLE. SUBSEQUENT REFERENCE TO CRADLE MEANS THE MK18 MOD 0 CRADLE WITH CONTENTS. FOR DETAIL OF THE CRADLE SEE PAGE 3.
- CRADLE DIMENSIONS - - - 113" L X 36-1/4" W X 25" H
STACKING HEIGHT - - - 21-3/4"
GROSS WEIGHT - - - - 1,455 LBS (APPROX)
CUBE - - - - - - - - 59.3 CUBIC FEET (APPROX)
- CAUTION: CRADLES MUST NOT BE STACKED MORE THAN SIX (6) CRADLES HIGH.
- C. THE STORAGE PROCEDURES DEPICTED WITHIN THIS DOCUMENT MAY ALSO BE UTILIZED TO STORE CRADLES 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.
- D. 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.
- E. STORED CRADLES MUST NOT CONTACT THE WALLS OR COLUMNS OF A MAGAZINE. TO PROVIDE FOR THIS MANDATORY CLEARANCE REQUIREMENT, UNITS MAY BE ELIMINATED FROM THE DEPICTED STORAGE PATTERN AS NECESSARY.
- F. AISLE DIMENSIONS SHOWN FOR STORAGE PROCEDURES IN MAGAZINES MAY BE ADJUSTED TO SUIT LOCAL CONDITIONS, AND/OR AVAILABLE MATERIALS HANDLING EQUIPMENT (MHE), HOWEVER, AN 18" MINIMUM INSPECTION AISLE MUST BE MAINTAINED AT THE FORWARD END OF ALL CRADLES. SEE NOTE "R" AT RIGHT.
- G. THE MAXIMUM FLOOR LOAD FOR A MAGAZINE AS PRESCRIBED BY LOCAL STANDARDS WILL NOT BE EXCEEDED.
- H. IF AVAILABLE MHE PERMITS, ADDITIONAL CRADLES MAY BE STORED WITHIN THE MHE AREA AND/OR OTHER AVAILABLE AREA OF THE MAGAZINE.
- J. THE HEIGHT OF THE PACKAGE GUARD ON SOME FORKLIFT TRUCKS MAY NOT PERMIT PLACEMENT OF SOME TOP LAYER CRADLES IN THE STACKS SHOWN IN THE STORAGE VIEWS HEREIN, UNLESS TWO UPPER CRADLES ARE HANDLED AS ONE LIFT OR THE PACKAGE GUARD IS REMOVED (TINE CARRIAGE WILL IN MOST INSTANCES PROVIDE ADEQUATE PACKAGE GUARD PROTECTION). ONLY A FORK LIFT TRUCK OF ADEQUATE CAPACITY WILL BE USED WHEN LIFTING TWO CRADLES AS ONE LIFT.
- K. IF THE QUANTITY OF CRADLES FOR A MAGAZINE IS TO BE REDUCED FROM WHAT IS SHOWN HEREIN DUE TO THE PERMITTED "EXPLOSIVE LIMIT" OR FOR ANY OTHER REASON, SUCH AS A LIMITED QUANTITY TO BE STORED, THE DELINEATED PROCEDURES ARE TO BE ADJUSTED BY OMITTING STACKS RATHER THAN BY OMITTING LAYERS.
- L. PORTIONS OF THE MAGAZINES, SUCH AS SIDEWALLS, END WALLS, AND ROOFS, HAVE NOT BEEN SHOWN IN THE STORAGE VIEWS FOR CLARITY PURPOSES.
- M. CRADLES PRESENTLY STORED IN ACCORDANCE WITH A PRIOR APPROVED DRAWING NEED NOT BE RE-STORED SOLELY TO CONFORM TO THE PROCEDURES SPECIFIED IN THIS DOCUMENT.
- N. OTHER COMPATIBLE ITEMS MAY BE STORED IN A MAGAZINE WHICH IS PARTIALLY FILLED WITH THE DESIGNATED ITEM.
- O. THE USE OF "FLOOR DUNNAGE" UNDER EACH FIRST-LAYER CRADLE 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 CRADLE 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.
- P. DUNNAGE LUMBER SPECIFIED THROUGHOUT THIS PROCEDURAL DRAWING IS OF NOMINAL SIZE. FOR EXAMPLE, 2" X 4" MATERIAL IS ACTUALLY 1-1/2" THICK BY 3-1/2" WIDE.
- R. CRADLES MAY BE OFFERED FOR STORAGE IN UNITIZED FLEET ISSUE UNITS OF 2 CRADLES (1 WIDE BY 2 HIGH). IF THE CAPACITY OF THE MHE PERMITS AND IF THESE UNITS CAN BE SAFELY HANDLED THRU THE MAGAZINE DOOR OPENING, THE COMPLETE UNITS CAN BE STACKED IN STORAGE, PROVIDING THE UNIT STRAPS ARE GALVANIZED. LOOSE OR UNSERVICEABLE STRAPS SHOULD BE REPLACED AS NECESSARY. HOWEVER, IF STRAPS ARE NOT GALVANIZED OR ARE LOOSE OR UNSERVICEABLE, IF DESIRED, THEY MAY BE REMOVED AND CRADLES HANDLED INDIVIDUALLY. SEE GENERAL NOTE "J". CAUTION: IT SHOULD BE NOTED THAT DUE TO POSITIONING OF THE CRADLES WITHIN FLEET ISSUE UNITS, AN INSPECTION AISLE MAY BE NECESSARY AT BOTH ENDS OF THE UNIT TO COMPLY WITH THE REQUIREMENTS OF GENERAL NOTE "F". TO PROVIDE FOR MAXIMUM STORAGE WITHIN A MAGAZINE, SINGLE CRADLES MAY BE STACKED IN CONJUNCTION WITH THE FLEET ISSUE UNITS.

(CONTINUED AT RIGHT)

REVISIONS

REVISION NO. 1 DATED AUGUST 1995 CONSISTS OF:

1. UPDATING DRAWING FORMAT, GENERAL NOTES AND MATERIAL SPECIFICATIONS TO CURRENT STANDARDS.
2. ADDING STORAGE PROCEDURES TO INCLUDE THE VARIOUS EARTH COVERED MAGAZINES IN CONUS.
3. CHANGING DRAWING FILE NUMBER TO INCLUDE ADDITIONAL MAGAZINES.

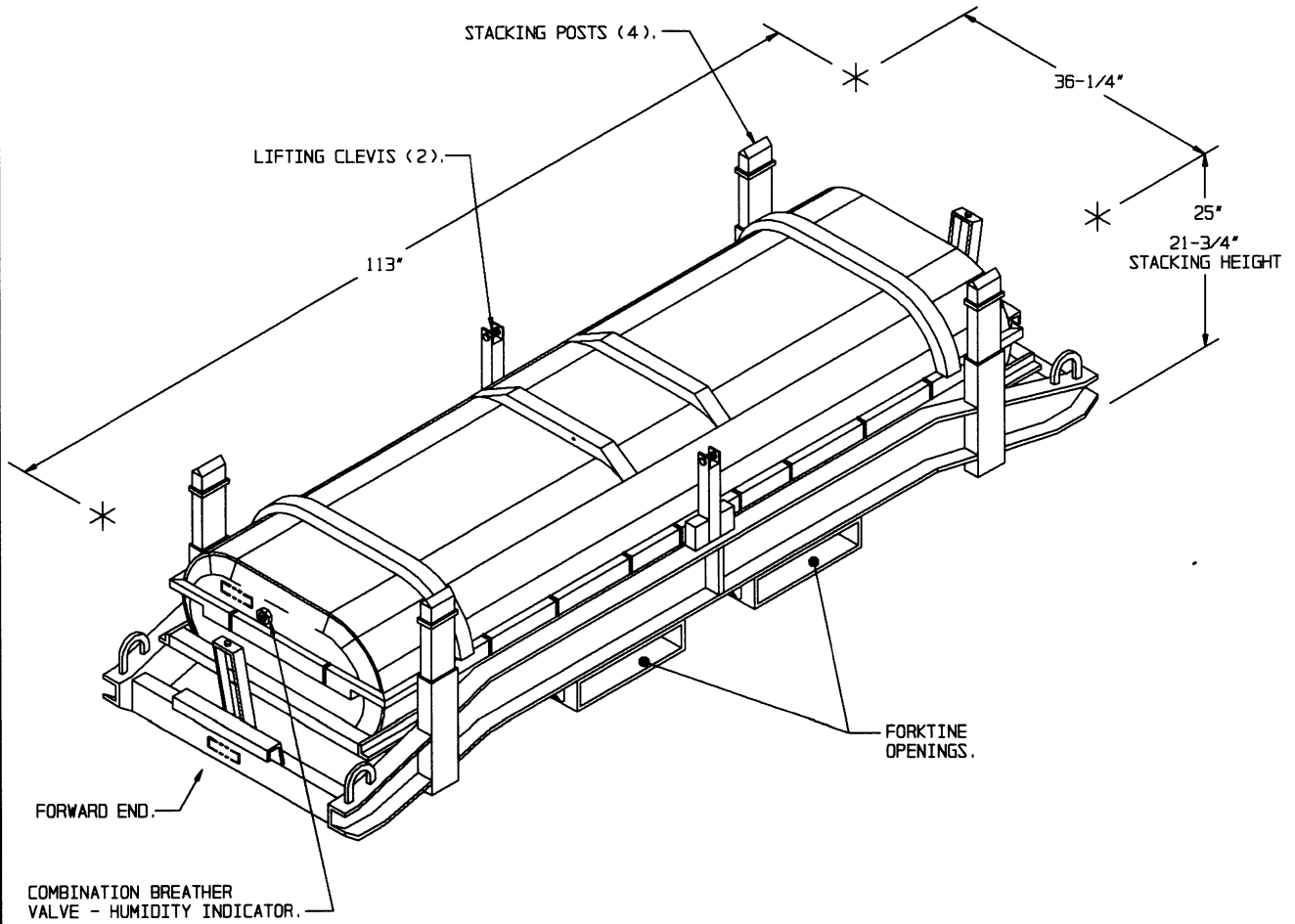
MATERIAL SPECIFICATIONS

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

STRAPPING

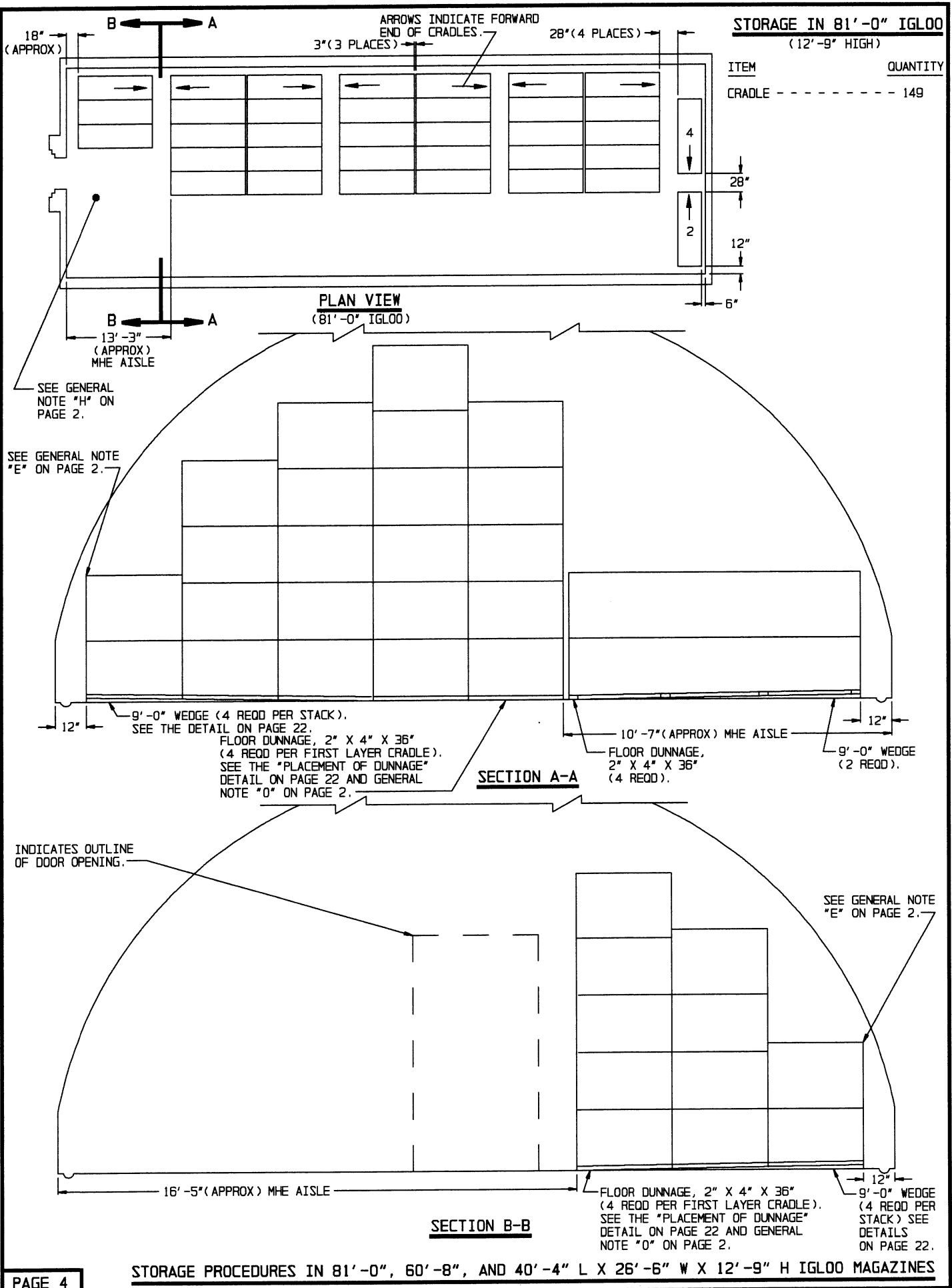
STEEL - - -: ASTM-D3953; FLAT STRAPPING, TYPE I, HEAVY DUTY, FINISH B (GRADE 2). SIZE 1-1/4" X .035" OR .031".

SEAL, STRAP - -: ASTM-D3953; CLASS H, FINISH B (GRADE 2), DOUBLE NOTCH TYPE, STYLE I, II, OR IV.



MK18 MOD 0 CRADLE

FOR FLEET ISSUE UNIT LOAD DETAILS SEE
 NAVAL WEAPONS HANDLING LABORATORY
 WR - 54/168. ALSO SEE GENERAL
 NOTES "B" AND "R" ON PAGE 2.

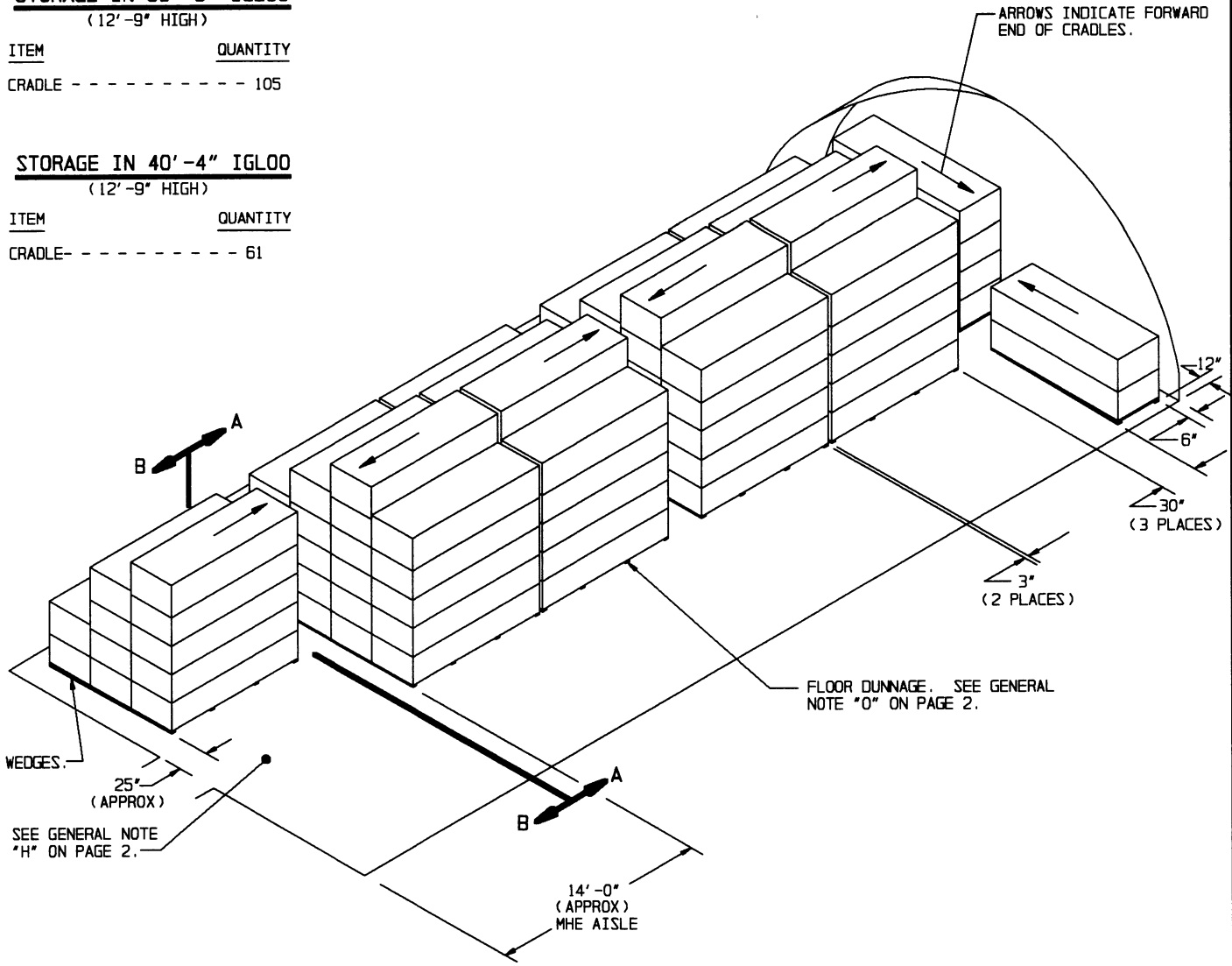


STORAGE IN 60'-8" IGLOO
(12'-9" HIGH)

| ITEM | QUANTITY |
|------------------|----------|
| CRADLE - - - - - | 105 |

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

| ITEM | QUANTITY |
|------------------|----------|
| CRADLE - - - - - | 61 |



ISOMETRIC VIEW
(60'-8" IGLOO)

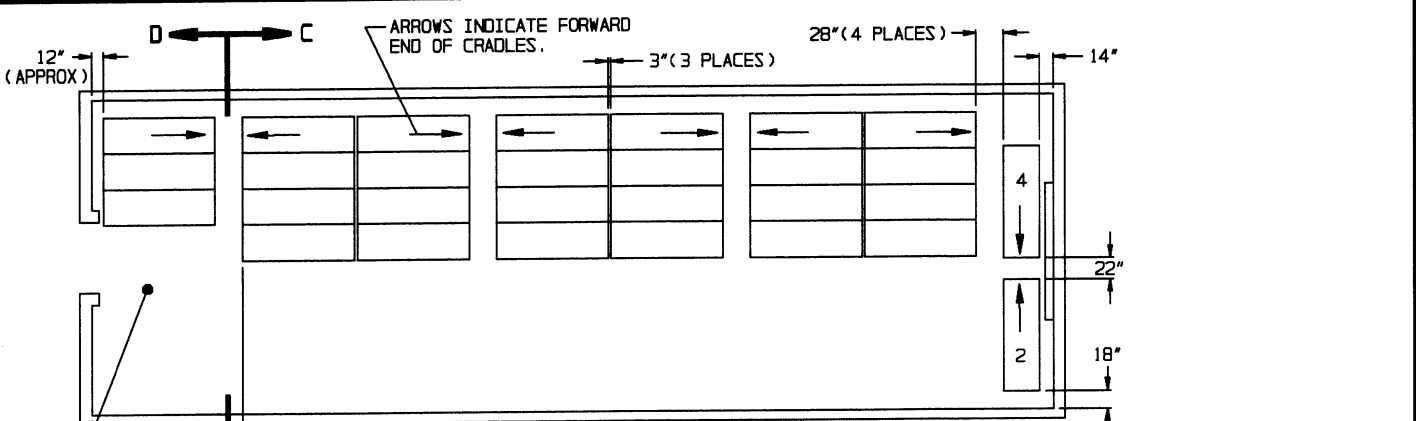
FOR "GENERAL NOTES" AND "MATERIAL SPECIFICATIONS" SEE PAGE 2.

SPECIAL NOTES FOR MULTIPLE-LOT STORAGE

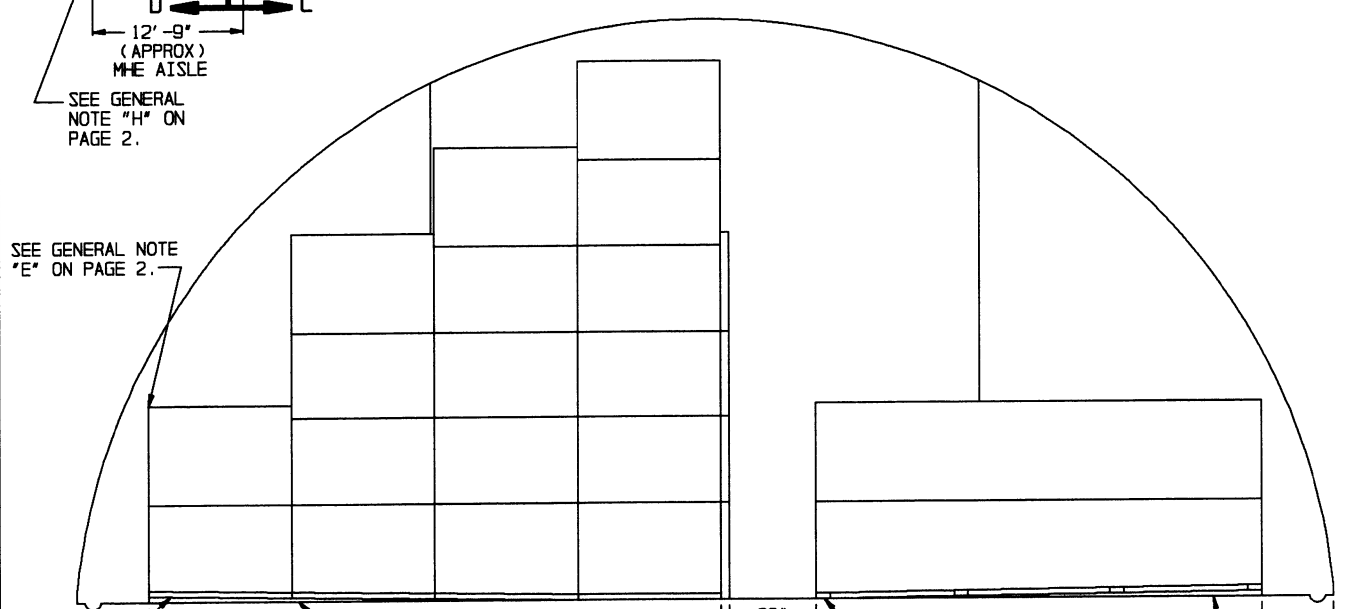
1. THE STORAGE PROCEDURES AS SPECIFIED CAN BE ADAPTED FOR USE IN MULTIPLE-LOT STORAGE. EACH STACK CAN CONSIST OF ONE OR MORE LOTS, EXCEPT THAT CRADLES OF ONE LOT WILL NOT BE STACKED ON TOP OF CRADLES OF ANOTHER LOT. GENERALLY, THE LARGEST LOT SHOULD BE STORED TOWARD THE REAR OF THE MAGAZINE.
2. EACH LOT WITHIN THE MAGAZINE MUST BE "ACCESSIBLE" FOR MOVEMENT BY MHE. A SINGLE-LOT OF CRADLES IS CONSIDERED "ACCESSIBLE" IF NO MORE THAN TWELVE (12) "LIFTS" OF ANOTHER LOT OR LOTS HAVE TO BE MADE TO GAIN ACCESS TO THAT LOT. THE TERM "LIFT" MEANS HANDLING AND MOVING NOT MORE THAN TWO (2) SINGLE CRADLES OR ONE (1) FLEET ISSUE UNIT AT ONE TIME.
3. INSPECTION/INVENTORY AISLES AND OTHER CRITERIA SPECIFIED IN THE GENERAL NOTES ON PAGE 2 MUST BE COMPLIED WITH FOR MULTIPLE-LOT STORAGE.
4. LOT IDENTITY AND ACCOUNTABILITY MUST BE MAINTAINED FOR ALL LOTS STORED WITHIN THE MAGAZINE.

| BILL OF MATERIAL | | | |
|-----------------------------|-------------------------------|----------------|--------------|
| 9'-0" WEDGES (PER STACK) | 2" X 4" X 36" FLOOR DUNNAGE * | | |
| 4 REQD | 4 REQD | 12 LINEAR FEET | 8 BOARD FEET |

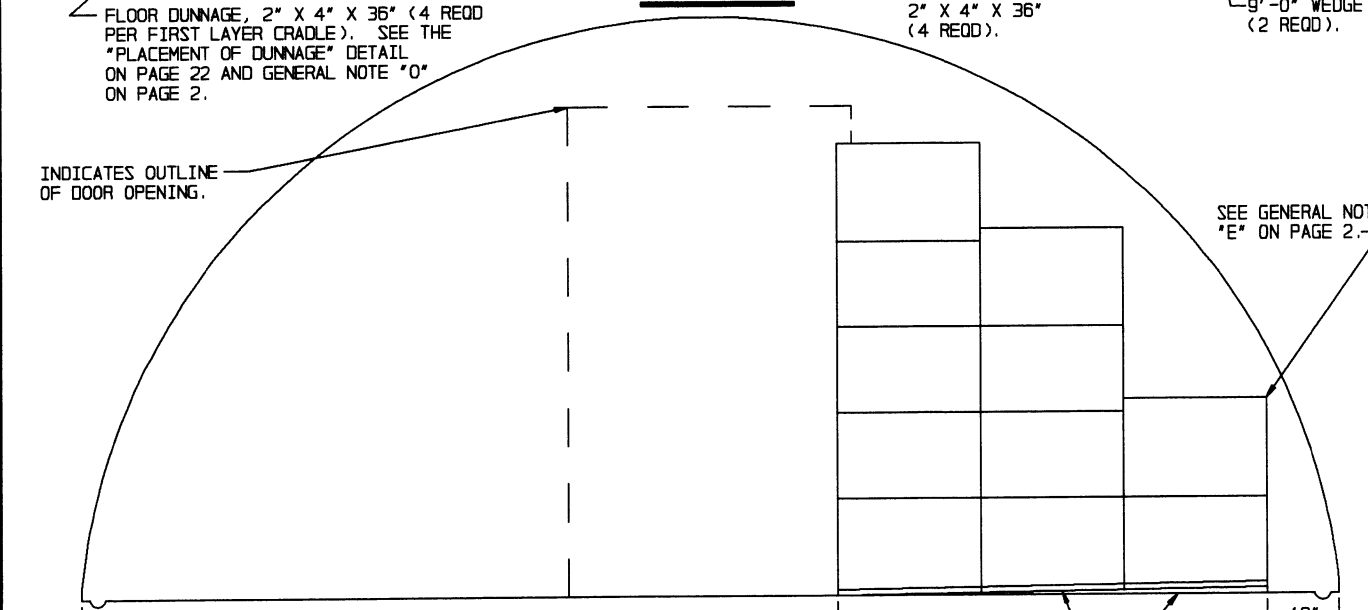
* SEE GENERAL NOTE "O" ON PAGE 2.



PLAN VIEW
(81'-2" MAGAZINE)



SECTION C-C



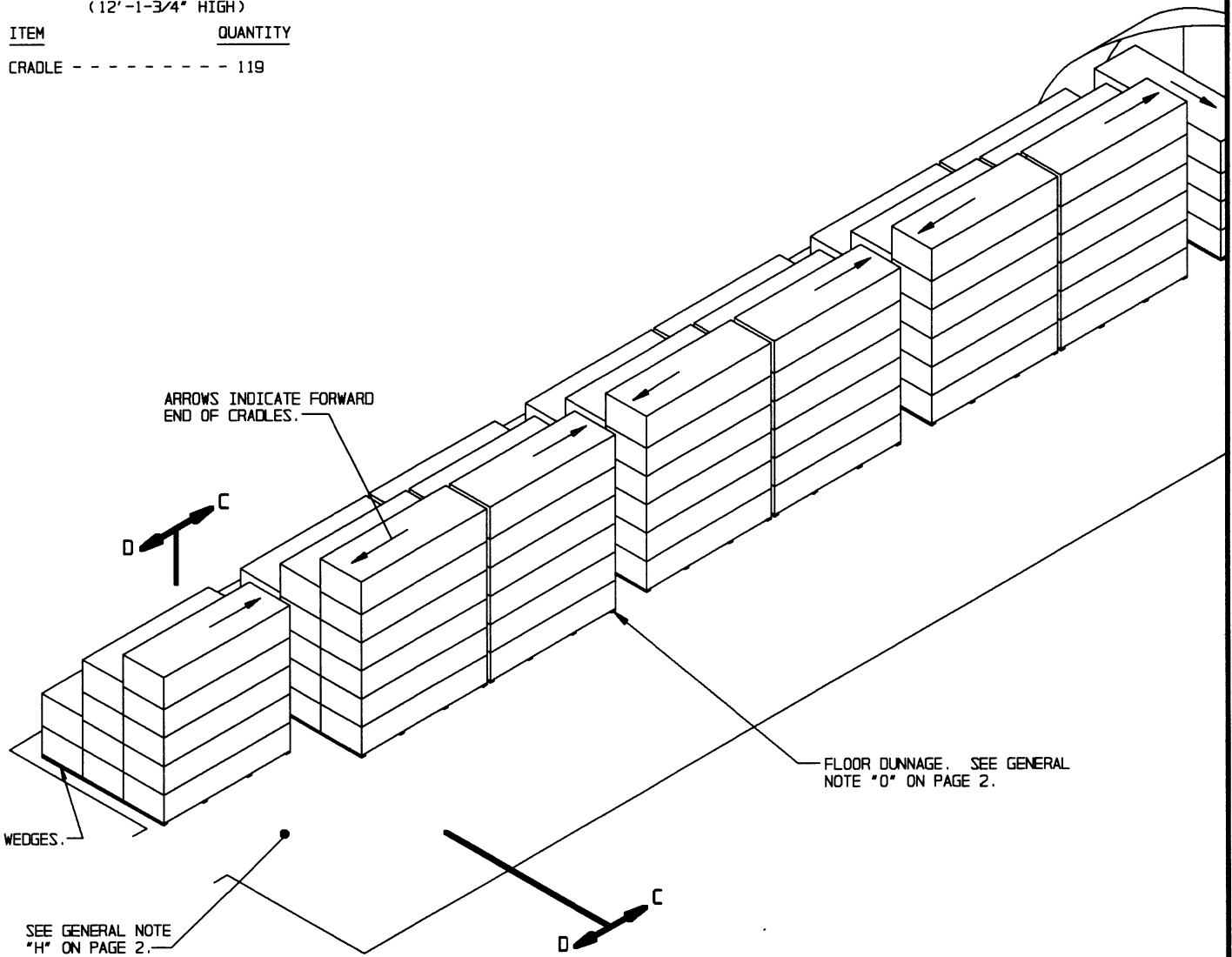
SECTION D-D

STORAGE PROCEDURES IN 81'-2" L X 26'-6" W X 12'-1-3/4" H ARCH TYPE MAGAZINE

STORAGE IN 81'-2" MAGAZINE

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

| ITEM | QUANTITY |
|------------------|----------|
| CRADLE - - - - - | 119 |



ISOMETRIC VIEW
(81'-2" MAGAZINE)

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

SPECIAL NOTES FOR MULTIPLE-LOT STORAGE

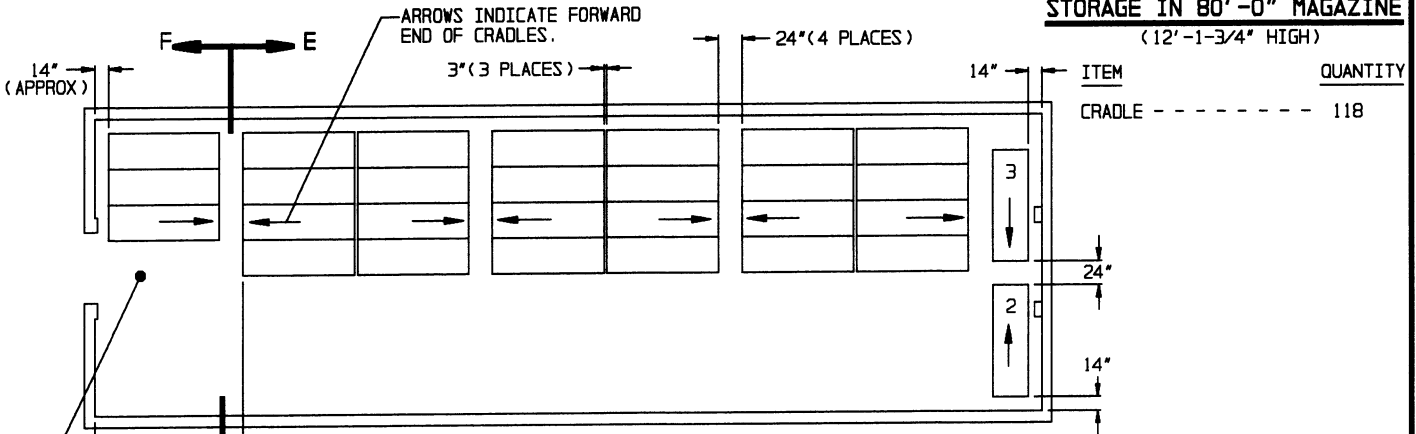
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| BILL OF MATERIAL | | | |
|-----------------------------|-------------------------------|----------------|--------------|
| 9'-0" WEDGES (PER STACK) | 2' X 4" X 36" FLOOR DUNNAGE * | | |
| | (PER FIRST LAYER CRADLE) | | |
| 4 REQD | 4 REQD | 12 LINEAR FEET | 8 BOARD FEET |

* SEE GENERAL NOTE "0" ON PAGE 2.

STORAGE IN 80'-0" MAGAZINE

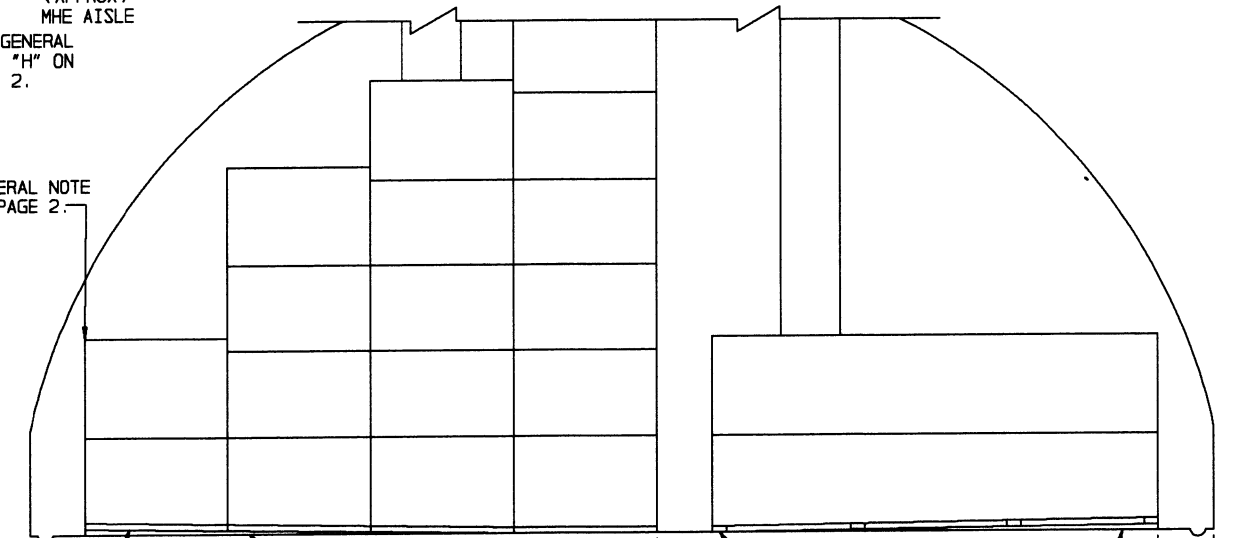
(12'-1-3/4" HIGH)



PLAN VIEW
(80'-0" MAGAZINE)

SEE GENERAL NOTE "H" ON PAGE 2.

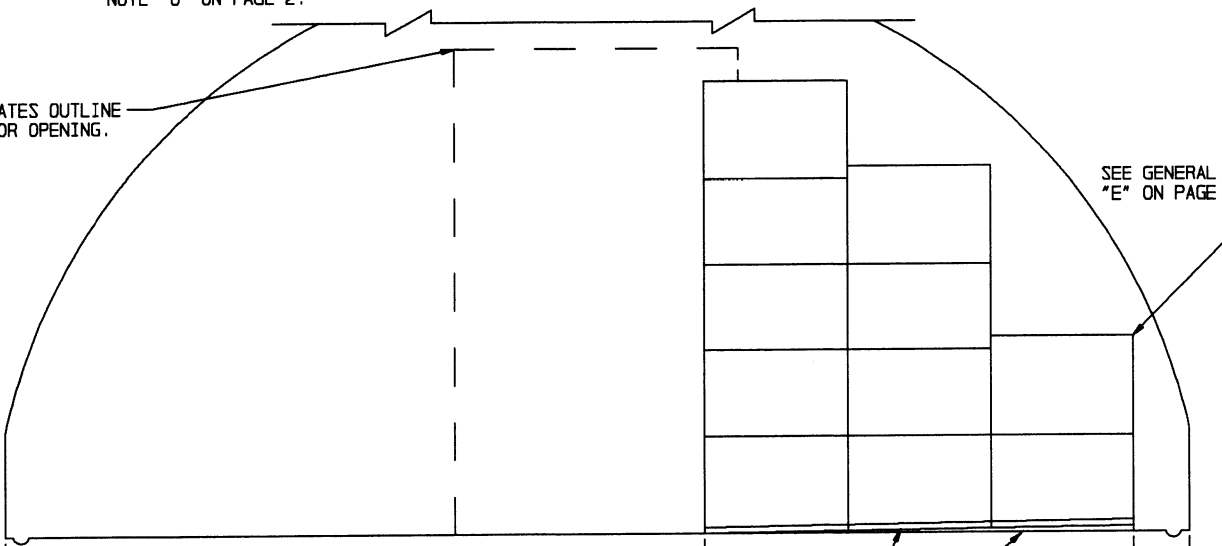
SEE GENERAL NOTE "E" ON PAGE 2.



SECTION E-E

INDICATES OUTLINE OF DOOR OPENING.

SEE GENERAL NOTE "E" ON PAGE 2.



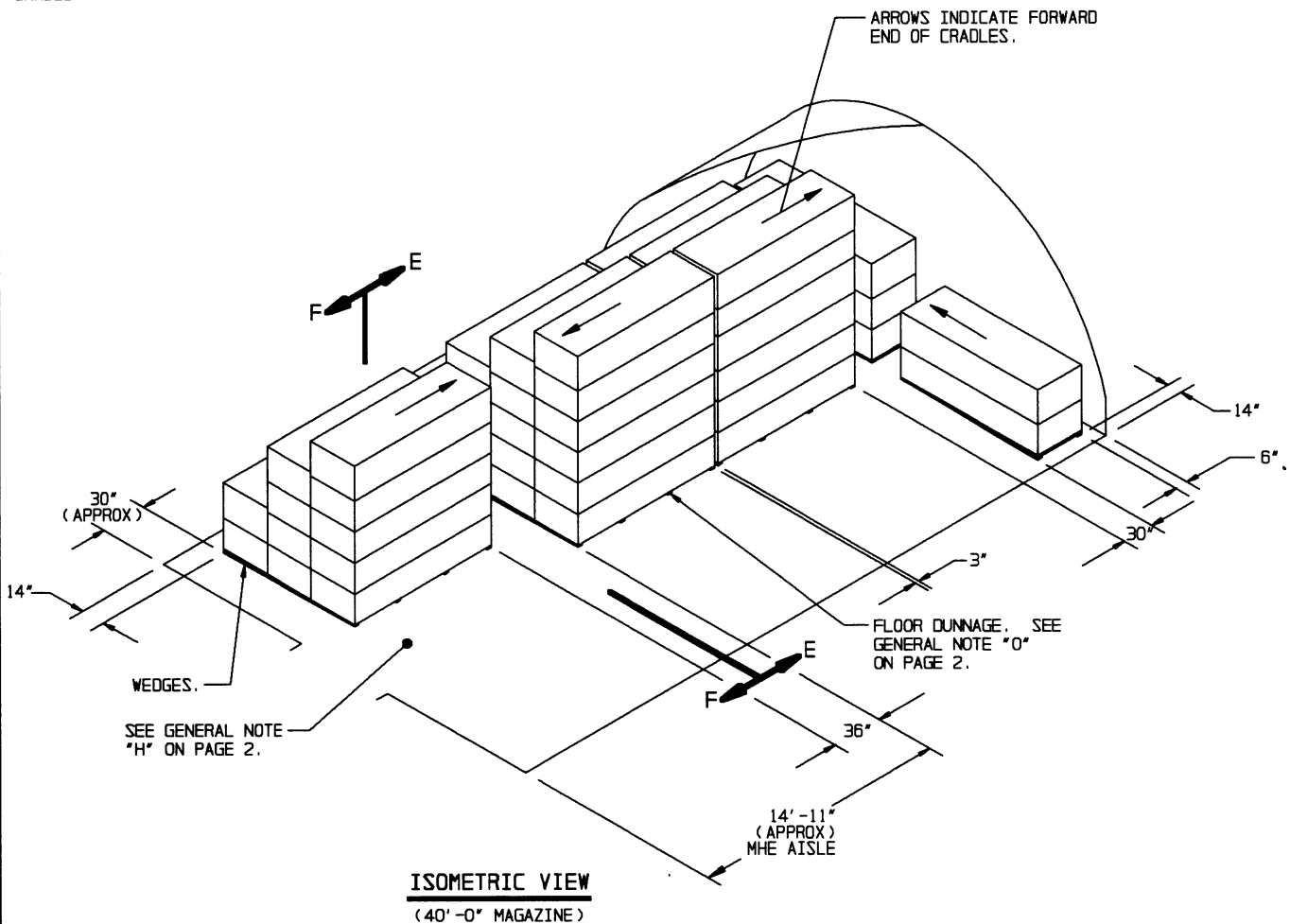
SECTION F-F

STORAGE PROCEDURES IN 80'-0" AND 40'-0" L X 25'-0" W X 12'-1-3/4" H ARCH TYPE MAGAZINES

STORAGE IN 40'-0" MAGAZINE

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

| ITEM | QUANTITY |
|------------------|----------|
| CRADLE - - - - - | 50 |



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

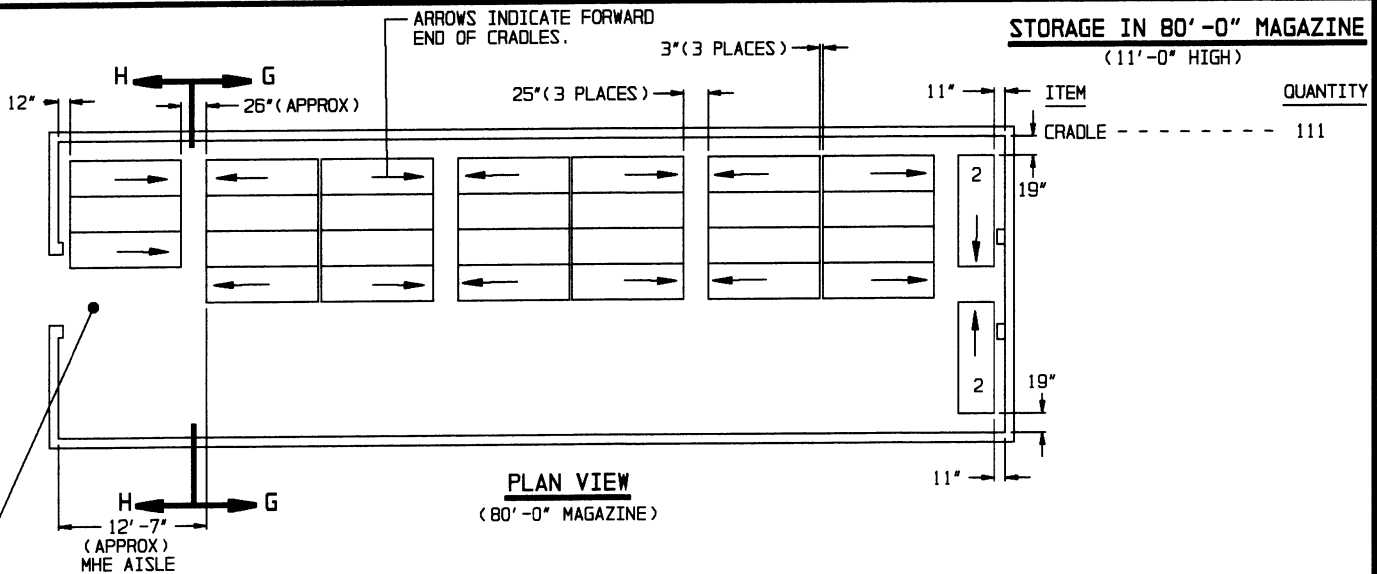
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4. LOT IDENTITY AND ACCOUNTABILITY MUST BE MAINTAINED FOR ALL LOTS STORED WITHIN THE MAGAZINE.

| BILL OF MATERIAL | | | |
|-----------------------------|---|----------------|--------------|
| 9'-0" WEDGES (PER STACK) | 2" X 4" X 36" FLOOR DUNNAGE * (PER FIRST LAYER CRADLE) | | |
| 4 REQD | 4 REQD | 12 LINEAR FEET | 8 BOARD FEET |

* SEE GENERAL NOTE "O" ON PAGE 2.

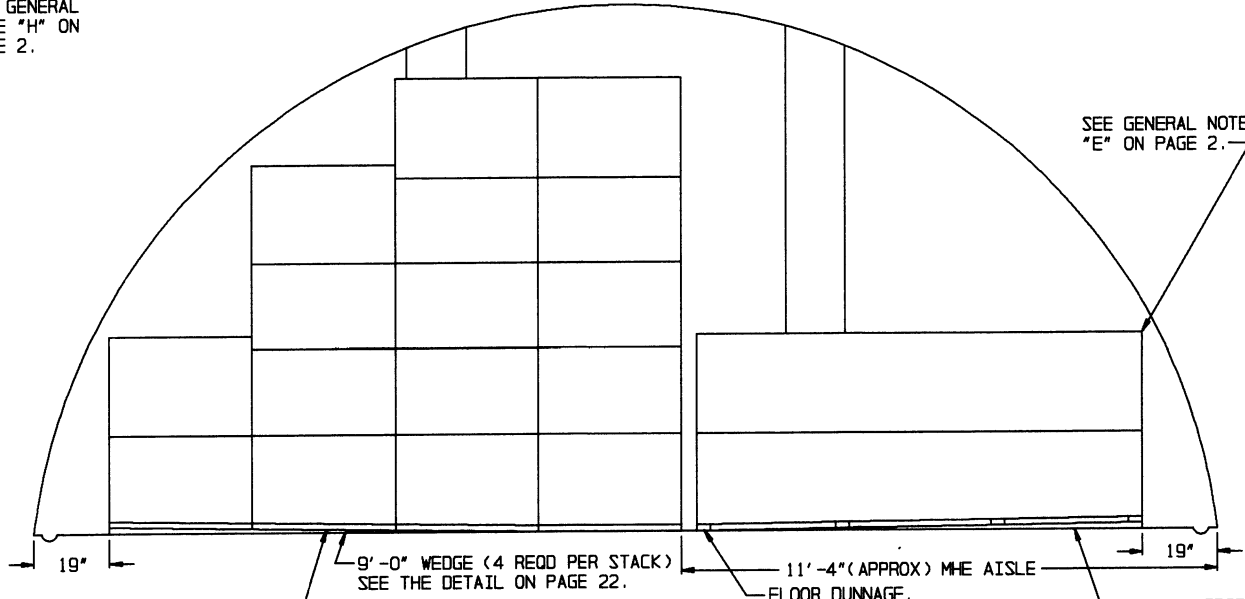
STORAGE IN 80'-0" MAGAZINE
(11'-0" HIGH)



PLAN VIEW
(80'-0" MAGAZINE)

SEE GENERAL NOTE "H" ON PAGE 2.

SEE GENERAL NOTE "E" ON PAGE 2.

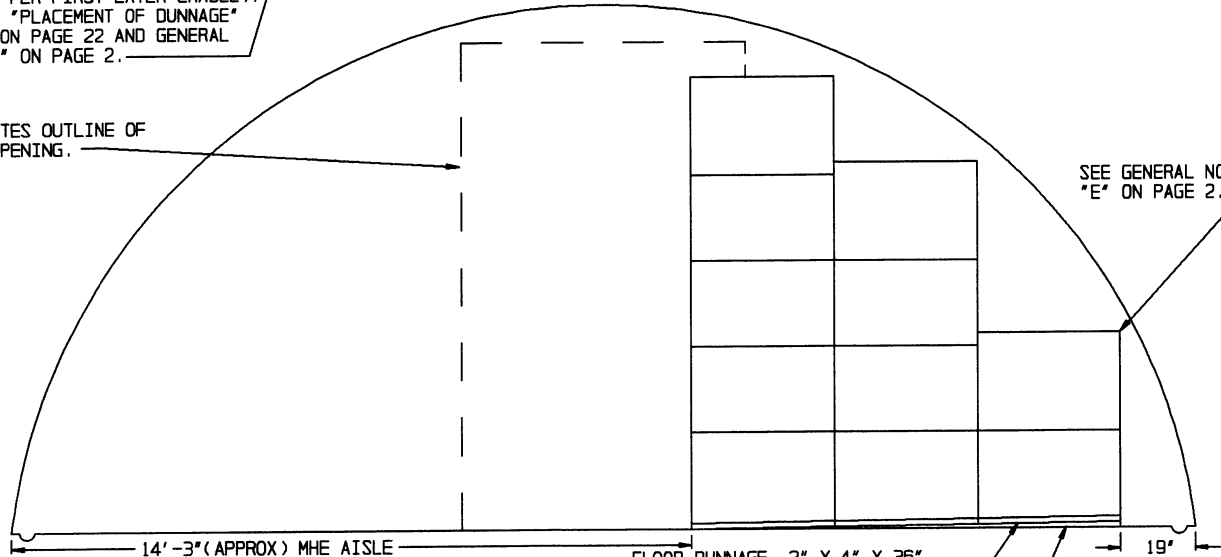


SECTION G-G

FLOOR DUNNAGE, 2" X 4" X 36" (4 REQD PER FIRST LAYER CRADLE). SEE THE "PLACEMENT OF DUNNAGE" DETAIL ON PAGE 22 AND GENERAL NOTE "O" ON PAGE 2.

SEE GENERAL NOTE "E" ON PAGE 2.

INDICATES OUTLINE OF DOOR OPENING.



SECTION H-H

FLOOR DUNNAGE, 2" X 4" X 36" (4 REQD PER FIRST LAYER CRADLE). SEE THE "PLACEMENT OF DUNNAGE" DETAIL ON PAGE 22 AND GENERAL NOTE "O" ON PAGE 2.

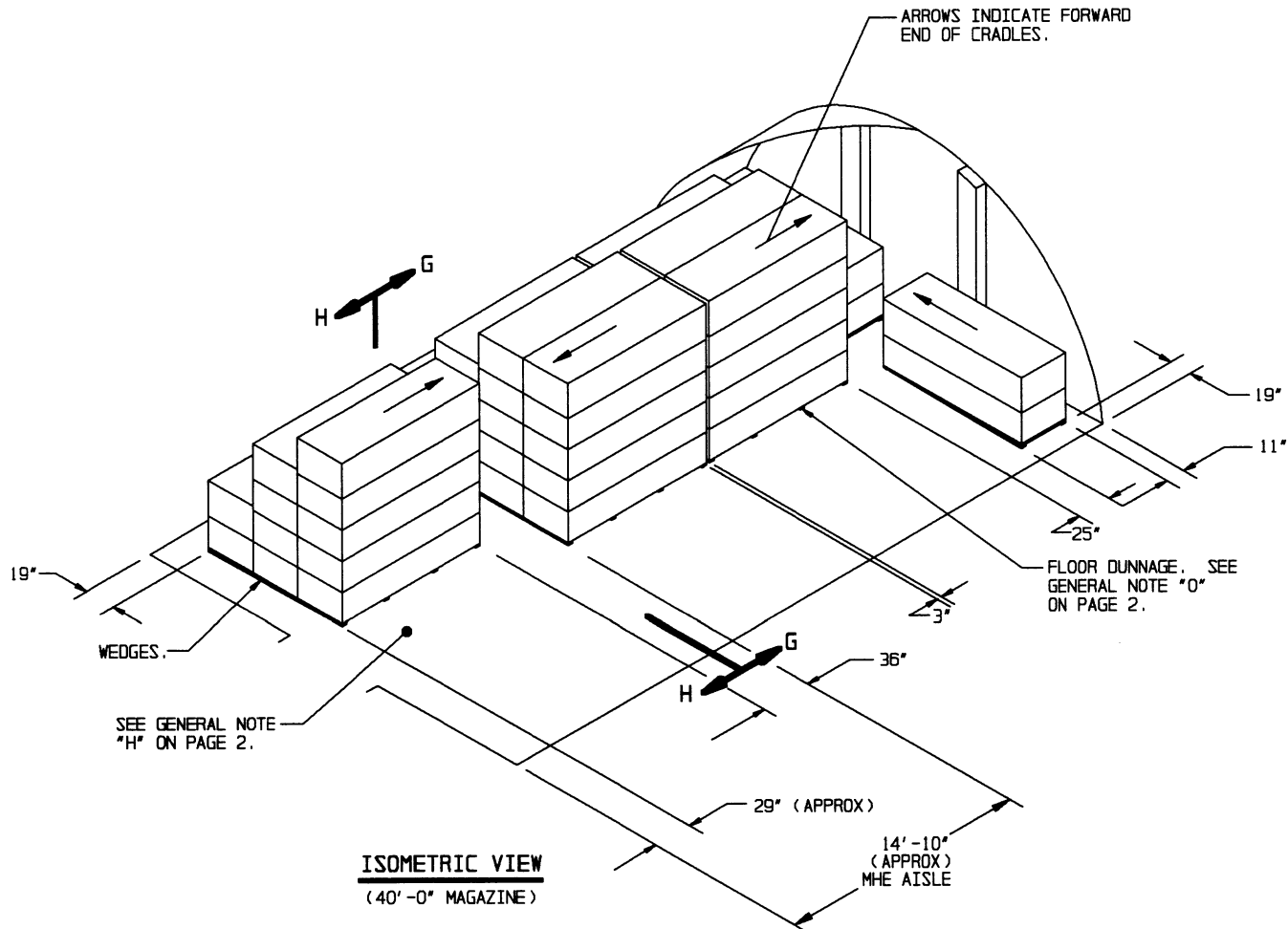
9'-0" WEDGE (4 REQD PER STACK) SEE DETAILS ON PAGE 22.

STORAGE PROCEDURES IN 80'-0" AND 40'-0" L X 25'-0" W X 11'-0" H ARCH TYPE MAGAZINES

STORAGE IN 40'-0" MAGAZINE

(11'-0" HIGH)

| ITEM | QUANTITY |
|------------------|----------|
| CRADLE - - - - - | 47 |



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

SPECIAL NOTES FOR MULTIPLE-LOT STORAGE

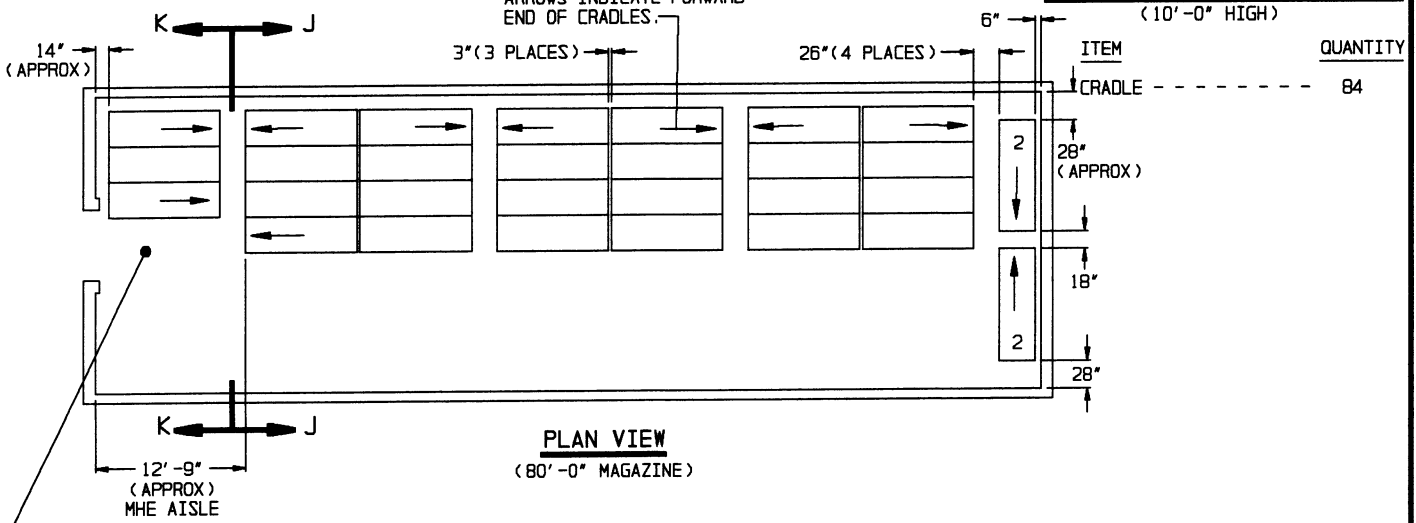
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| BILL OF MATERIAL | | | |
|-----------------------------|---|----------------|--------------|
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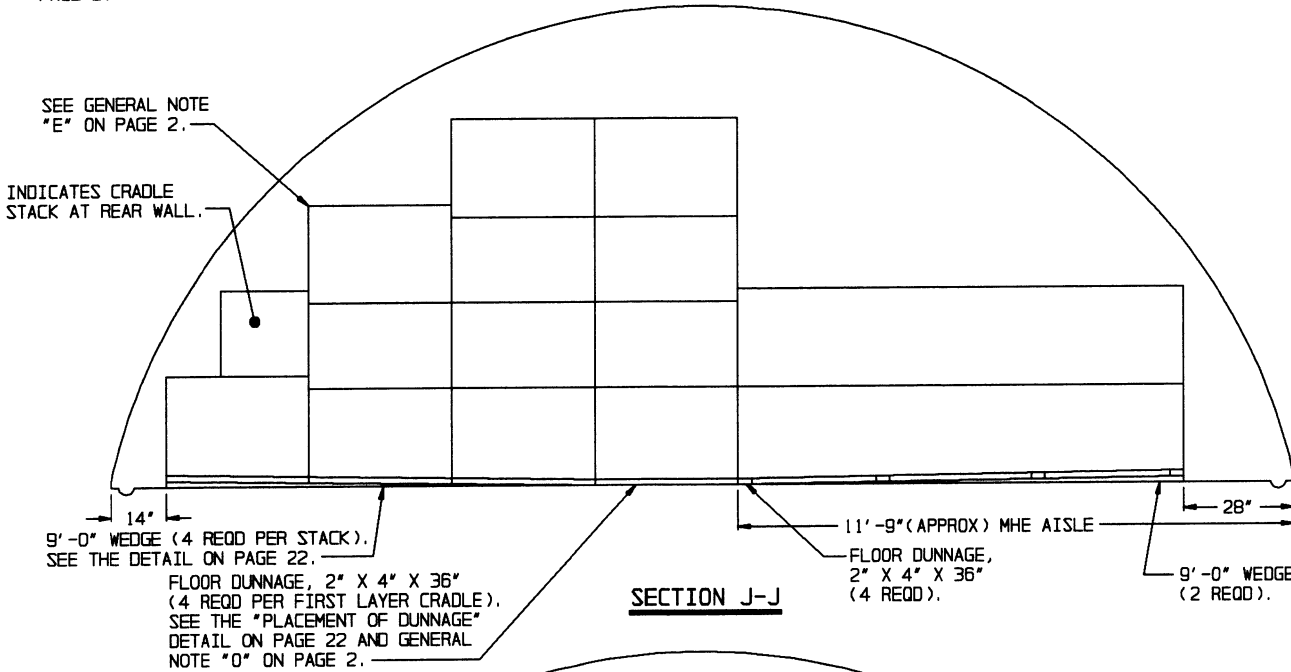
* SEE GENERAL NOTE "O" ON PAGE 2.

STORAGE IN 80'-0" MAGAZINE

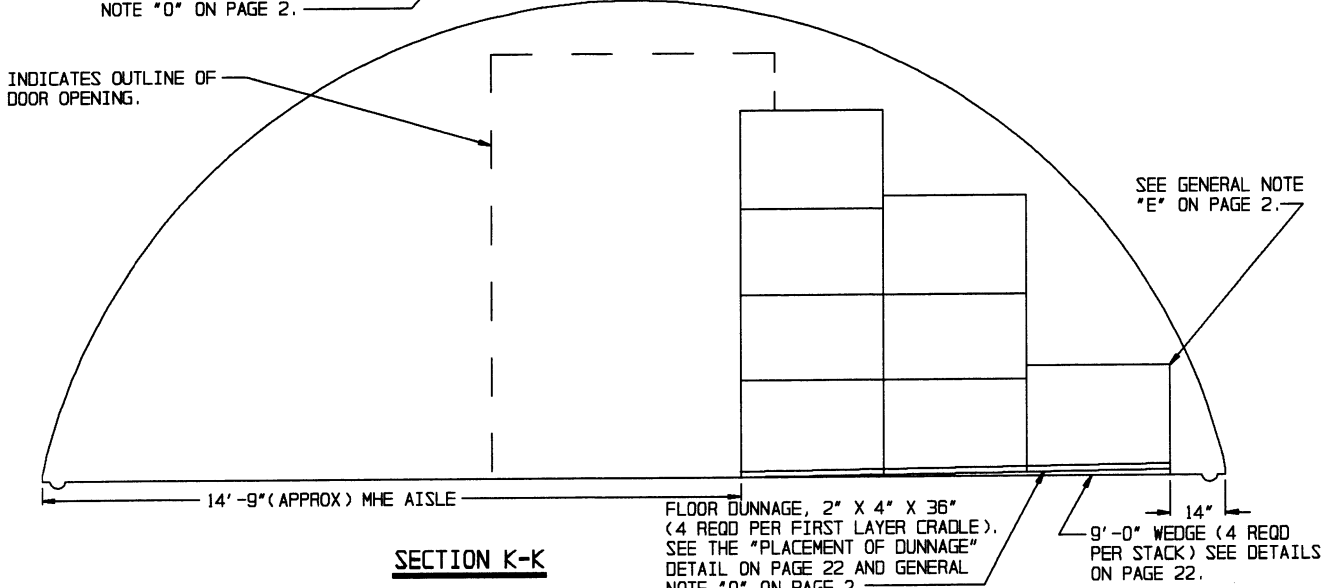
(10'-0" HIGH)



SEE GENERAL NOTE "H" ON PAGE 2.



INDICATES OUTLINE OF DOOR OPENING.

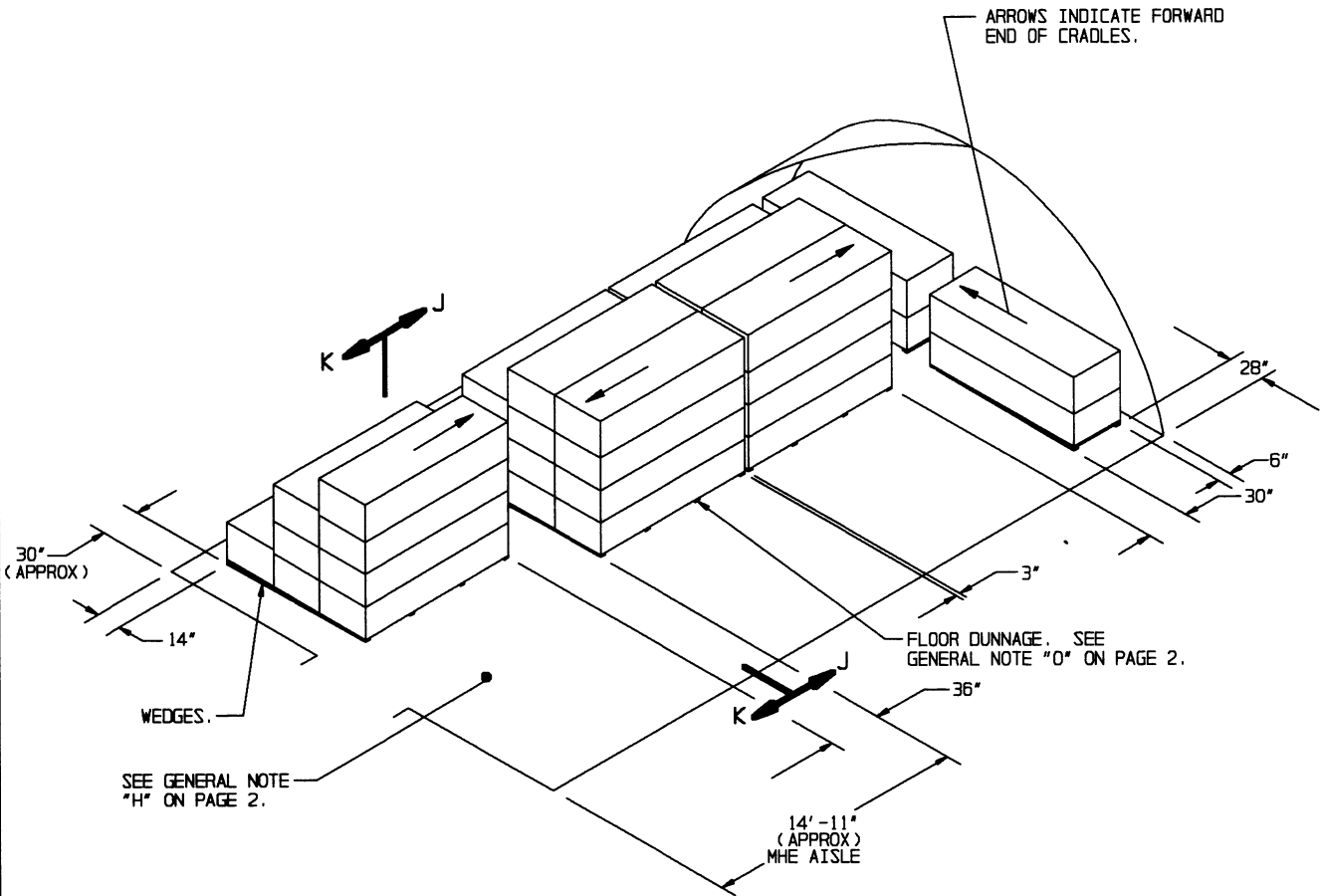


STORAGE PROCEDURES IN 80'-0" AND 40'-0" L X 25'-0" W X 10'-0" H ARCH TYPE MAGAZINES

STORAGE IN 40'-0" MAGAZINE

(10'-0" HIGH)

| ITEM | QUANTITY |
|------------------|----------|
| CRADLE - - - - - | 36 |



ISOMETRIC VIEW
(40'-0" MAGAZINE)

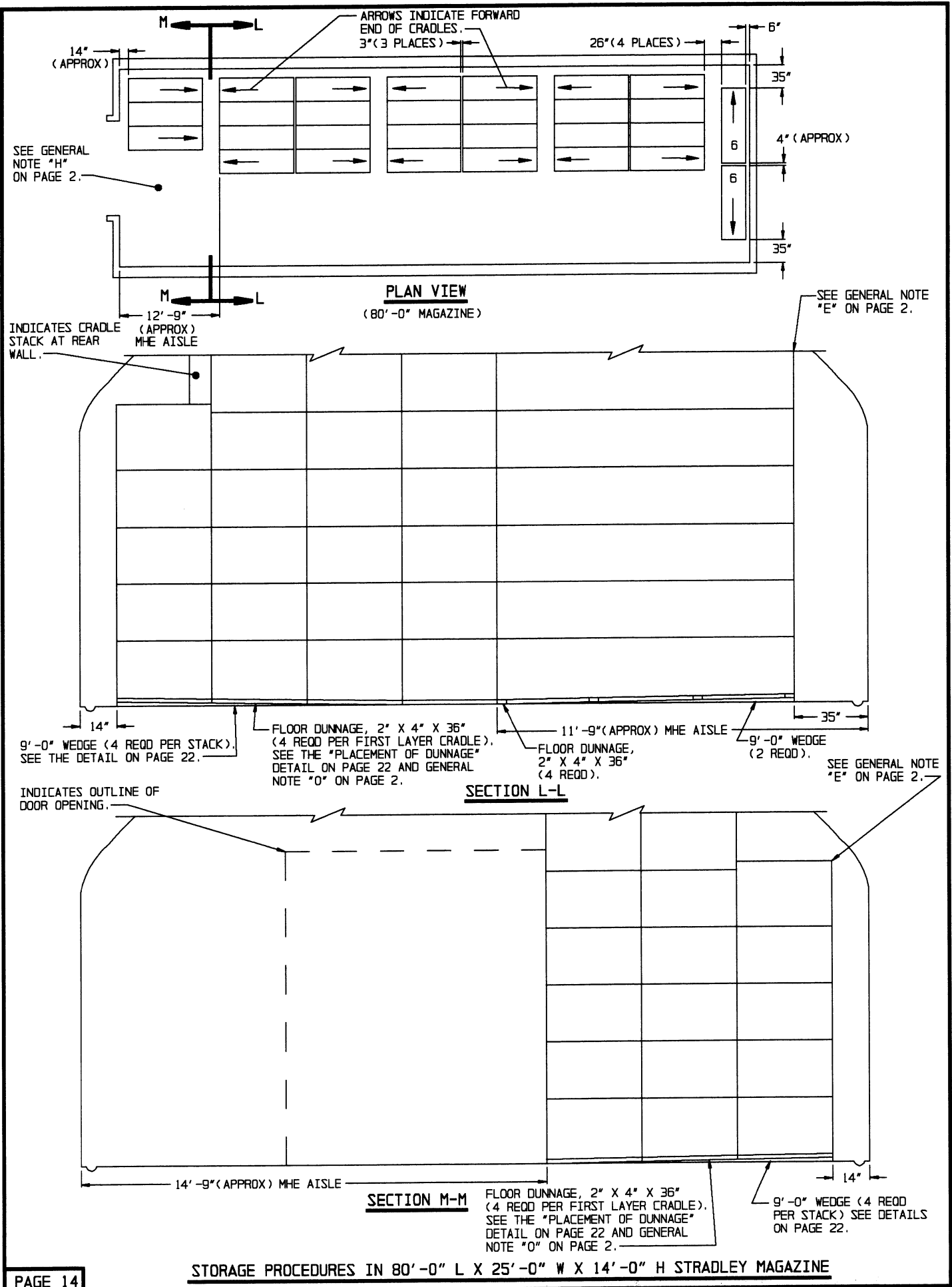
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SPECIAL NOTES FOR MULTIPLE-LOT STORAGE

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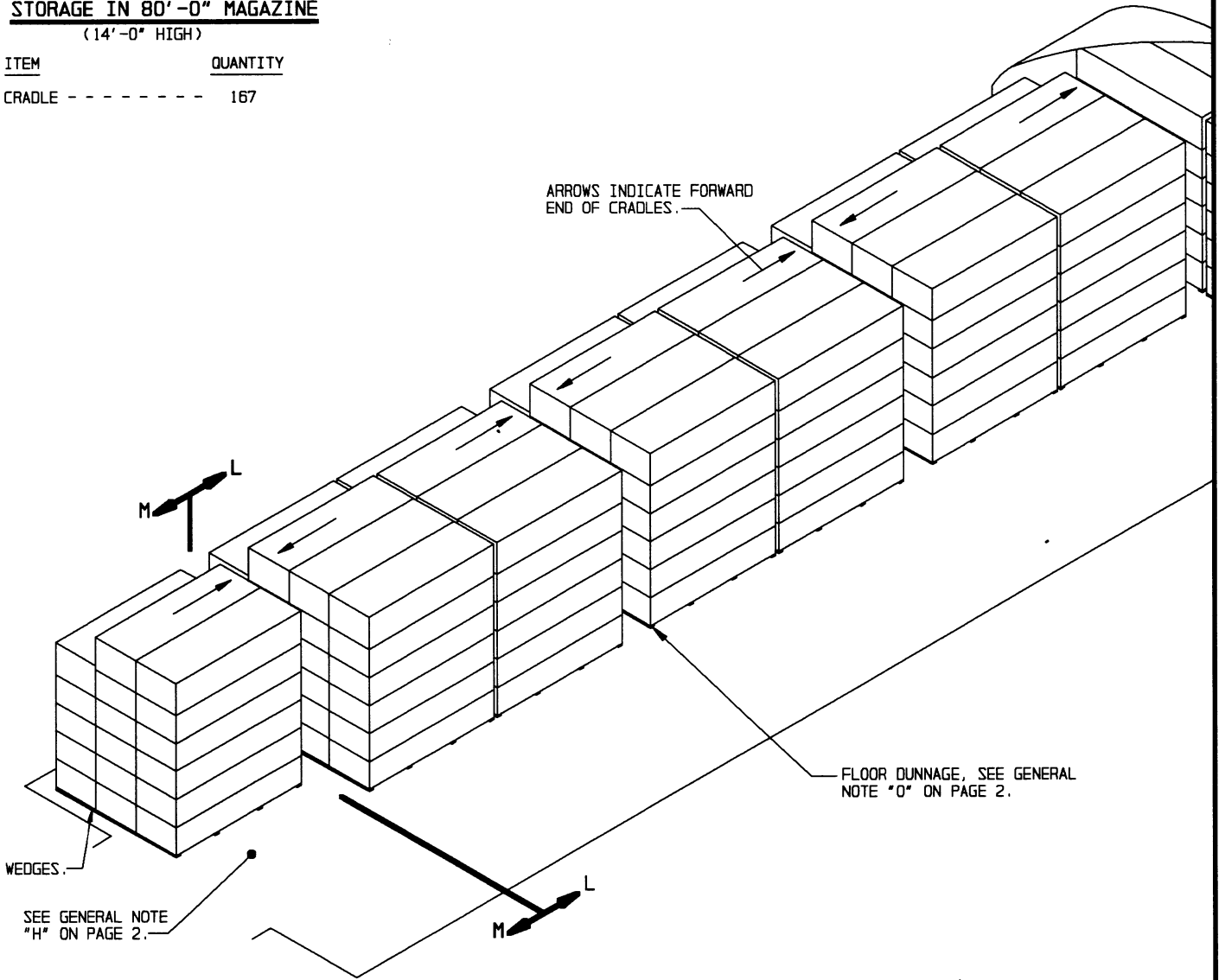
| BILL OF MATERIAL | | | |
|-----------------------------|---|----------------|--------------|
| 9'-0" WEDGES (PER STACK) | 2" X 4" X 36" FLOOR DUNNAGE * (PER FIRST LAYER CRADLE) | | |
| 4 REQD | 4 REQD | 12 LINEAR FEET | 8 BOARD FEET |

* SEE GENERAL NOTE "O" ON PAGE 2.



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

| ITEM | QUANTITY |
|------------------|----------|
| CRADLE - - - - - | 167 |



ISOMETRIC VIEW
(80'-0" MAGAZINE)

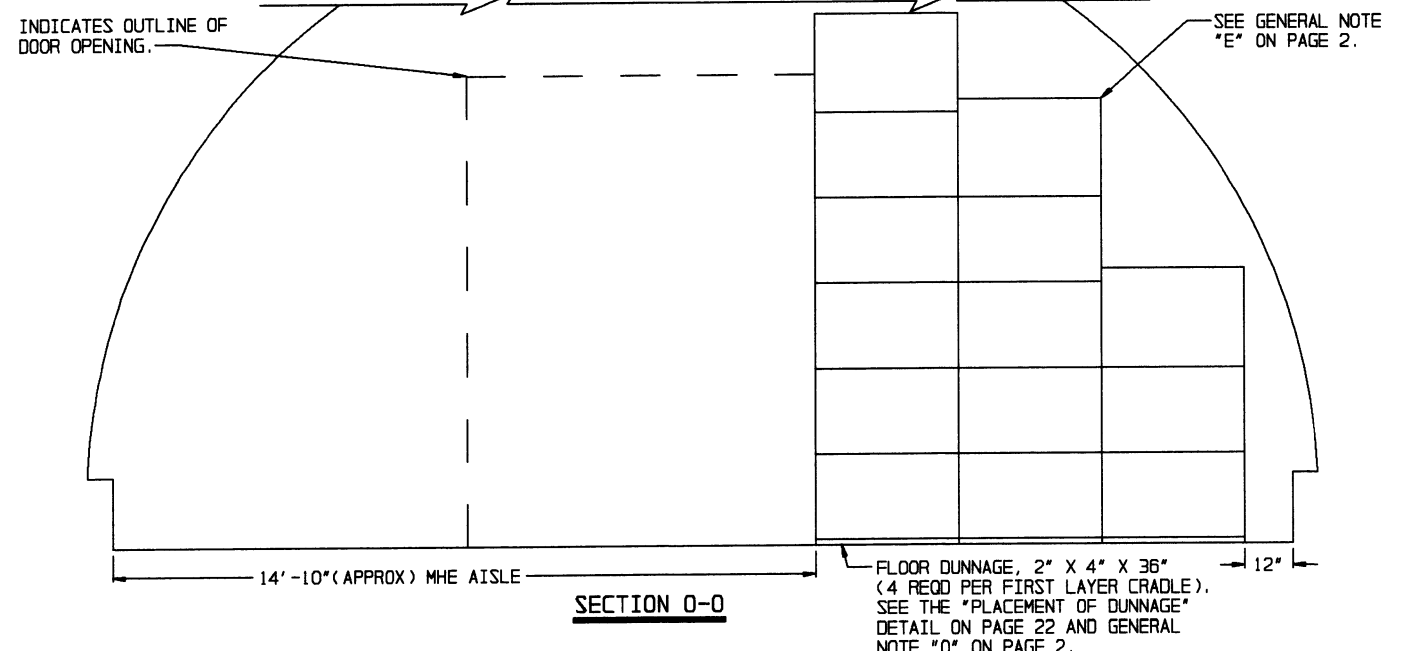
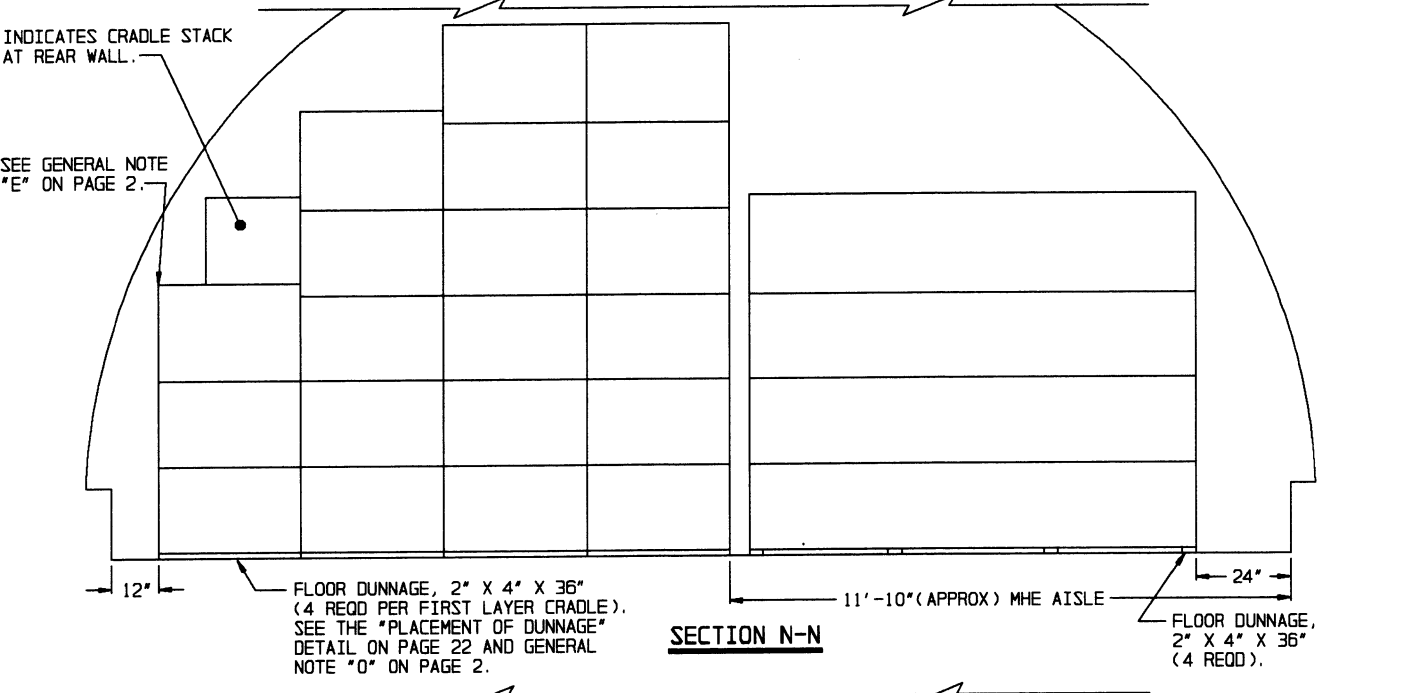
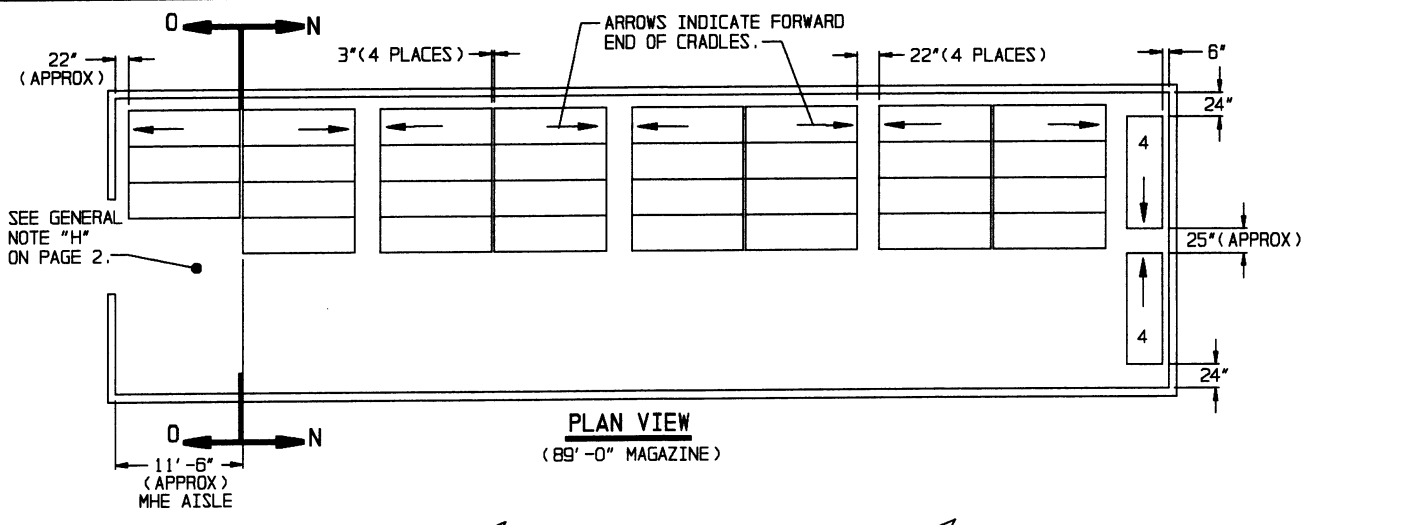
**FOR "GENERAL NOTES" AND
"MATERIAL SPECIFICATIONS" SEE PAGE 2.**

| BILL OF MATERIAL | | | |
|-----------------------------|---|----------------|--------------|
| 9'-0" WEDGES (PER STACK) | 2" X 4" X 36" FLOOR DUNNAGE * (PER FIRST LAYER CRADLE) | | |
| 4 REQD | 4 REQD | 12 LINEAR FEET | 8 BOARD FEET |

* SEE GENERAL NOTE "O" ON PAGE 2.

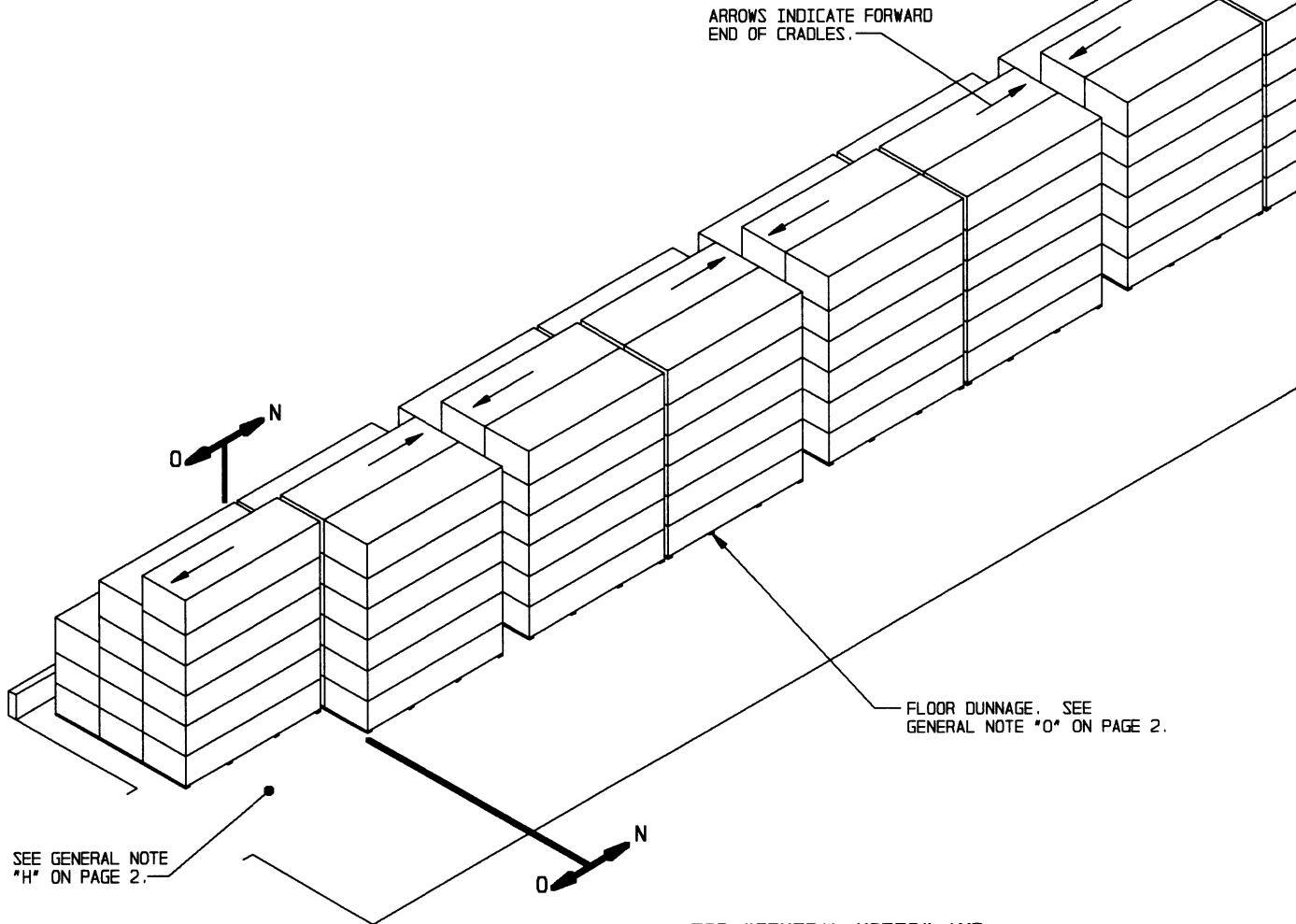
SPECIAL NOTES FOR MULTIPLE-LOT STORAGE

1. THE STORAGE PROCEDURES AS SPECIFIED CAN BE ADAPTED FOR USE IN MULTIPLE-LOT STORAGE. EACH STACK CAN CONSIST OF ONE OR MORE LOTS, EXCEPT THAT CRADLES OF ONE LOT WILL NOT BE STACKED ON TOP OF CRADLES OF ANOTHER LOT. GENERALLY, THE LARGEST LOT SHOULD BE STORED TOWARD THE REAR OF THE MAGAZINE.
2. EACH LOT WITHIN THE MAGAZINE MUST BE "ACCESSIBLE" FOR MOVEMENT BY MHE. A SINGLE-LOT OF CRADLES IS CONSIDERED "ACCESSIBLE" IF NO MORE THAN TWELVE (12) "LIFTS" OF ANOTHER LOT OR LOTS HAVE TO BE MADE TO GAIN ACCESS TO THAT LOT. THE TERM "LIFT" MEANS HANDLING AND MOVING NOT MORE THAN TWO (2) SINGLE CRADLES OR ONE (1) FLEET ISSUE UNIT AT ONE TIME.
3. INSPECTION/INVENTORY AISLES AND OTHER CRITERIA SPECIFIED IN THE GENERAL NOTES ON PAGE 2 MUST BE COMPLIED WITH FOR MULTIPLE-LOT STORAGE.
4. LOT IDENTITY AND ACCOUNTABILITY MUST BE MAINTAINED FOR ALL LOTS STORED WITHIN THE MAGAZINE.



STORAGE IN 89'-0" MAGAZINE
(13'-6" HIGH)

| ITEM | QUANTITY |
|------------------|----------|
| CRADLE - - - - - | 162 |



ISOMETRIC VIEW
(89'-0" MAGAZINE)

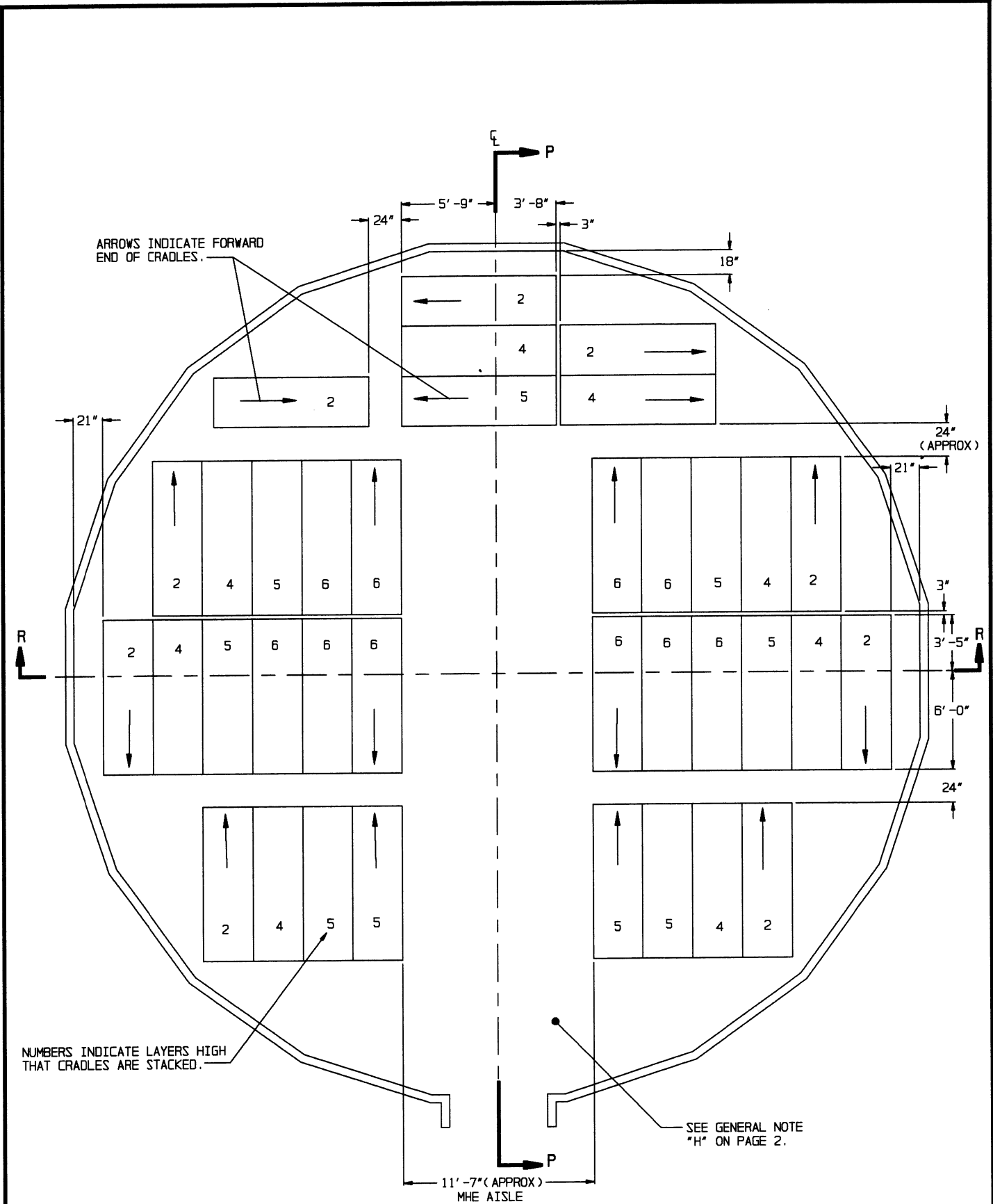
FOR "GENERAL NOTES" AND "MATERIAL SPECIFICATIONS" SEE PAGE 2.

| BILL OF MATERIAL | | |
|-------------------------------|----------------|--------------|
| 2" X 4" X 36" FLOOR DUNNAGE * | | |
| (PER FIRST LAYER CRADLE) | | |
| 4 REQD | 12 LINEAR FEET | 8 BOARD FEET |

* SEE GENERAL NOTE *O* ON PAGE 2.

SPECIAL NOTES FOR MULTIPLE-LOT STORAGE

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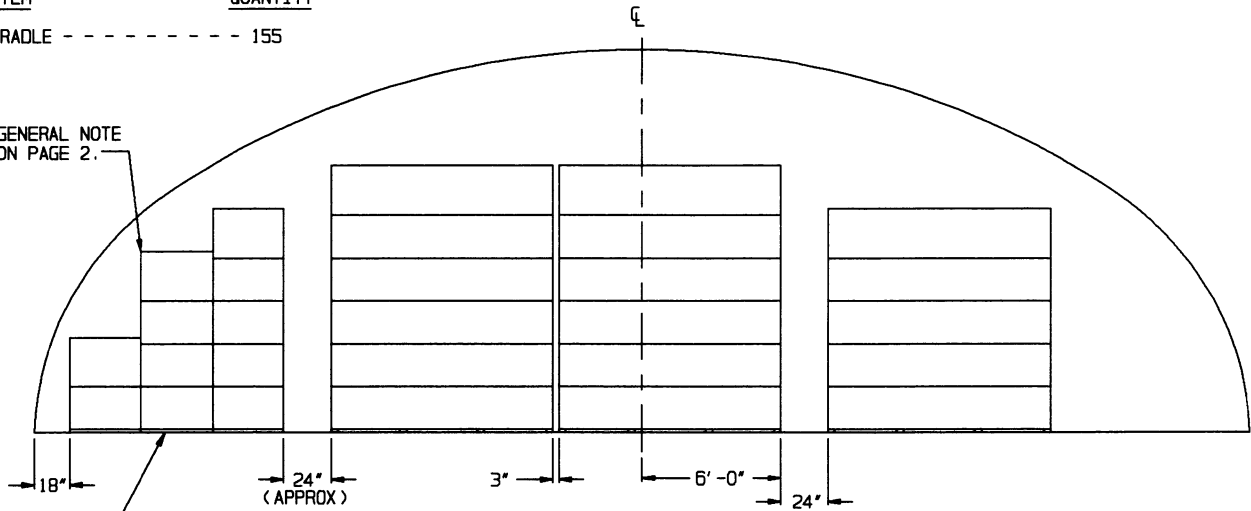
PLAN VIEW
(52'-0" DIA MAGAZINE)

STORAGE PROCEDURES IN 52'-0" DIA CORBETTA MAGAZINE

STORAGE IN 52'-0" DIA MAGAZINE

| ITEM | QUANTITY |
|------------------|----------|
| CRADLE - - - - - | 155 |

SEE GENERAL NOTE "E" ON PAGE 2.

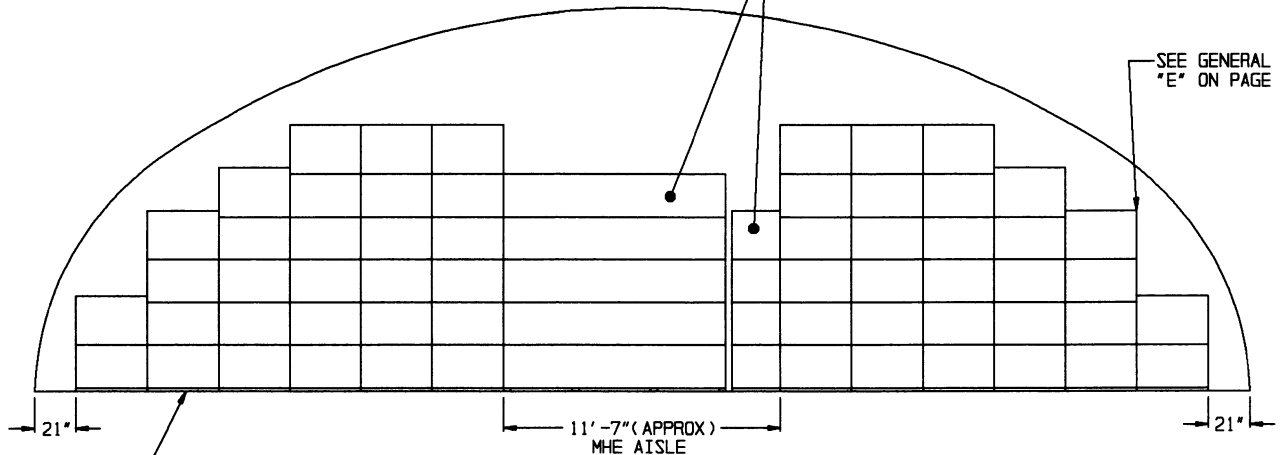


FLOOR DUNNAGE, 2" X 4" X 36"
(4 REQD PER FIRST LAYER CRADLE).
SEE THE "PLACEMENT OF DUNNAGE"
DETAIL ON PAGE 22 AND GENERAL
NOTE "O" ON PAGE 2.

SECTION P-P

INDICATES STACKS OF CRADLES
AT REAR OF MAGAZINE.

SEE GENERAL NOTE "E" ON PAGE 2.



FLOOR DUNNAGE, 2" X 4" X 36"
(4 REQD PER FIRST LAYER CRADLE).
SEE THE "PLACEMENT OF DUNNAGE"
DETAIL ON PAGE 22 AND GENERAL
NOTE "O" ON PAGE 2.

SECTION R-R

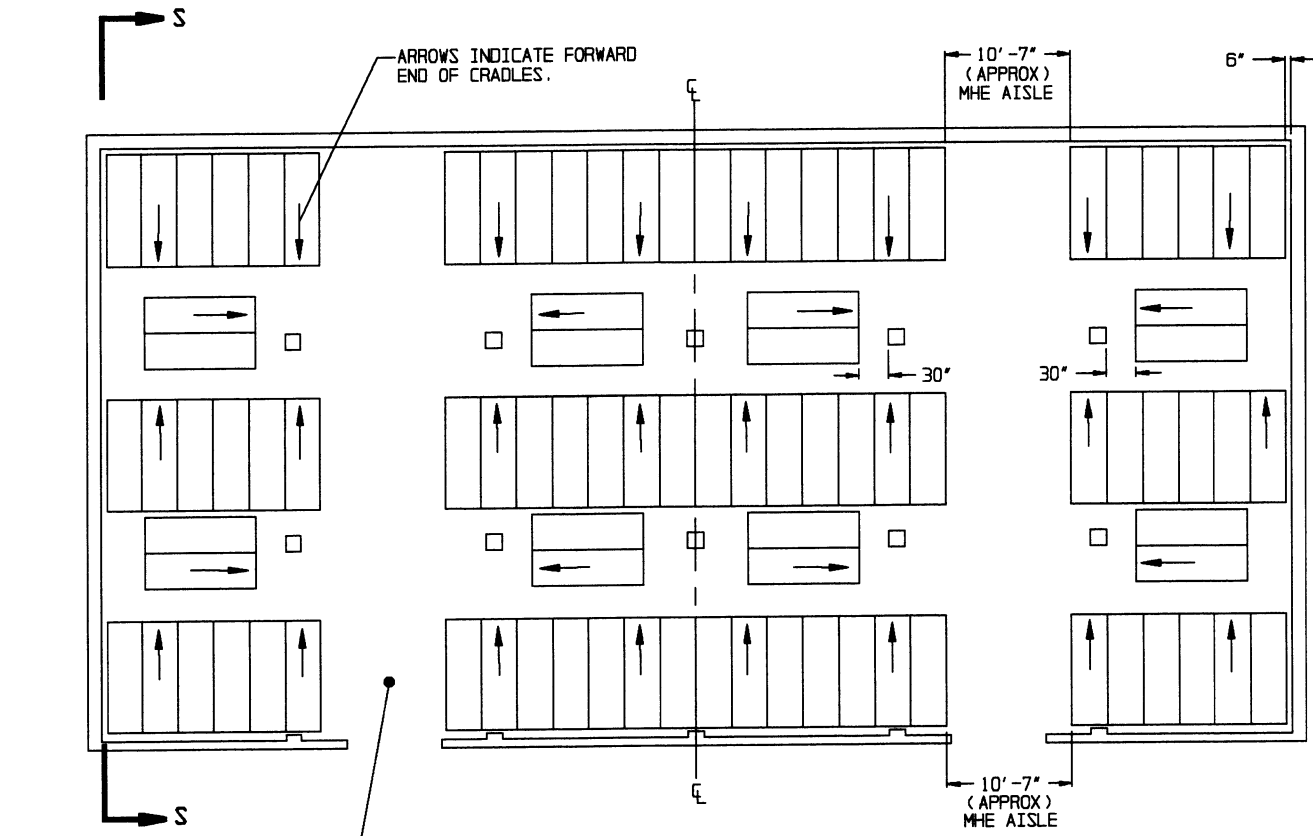
SPECIAL NOTES FOR MULTIPLE-LOT STORAGE

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| BILL OF MATERIAL | | |
|-------------------------------|----------------|--------------|
| 2" X 4" X 36" FLOOR DUNNAGE * | | |
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| 4 REQD | 12 LINEAR FEET | 8 BOARD FEET |

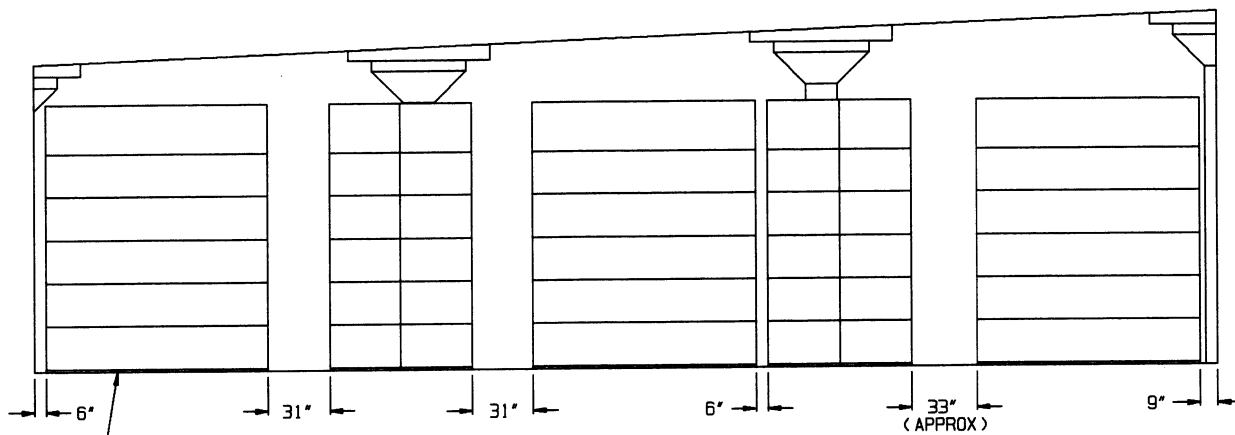
* SEE GENERAL NOTE "O" ON PAGE 2.

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



SEE GENERAL NOTE "H" ON PAGE 2.

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

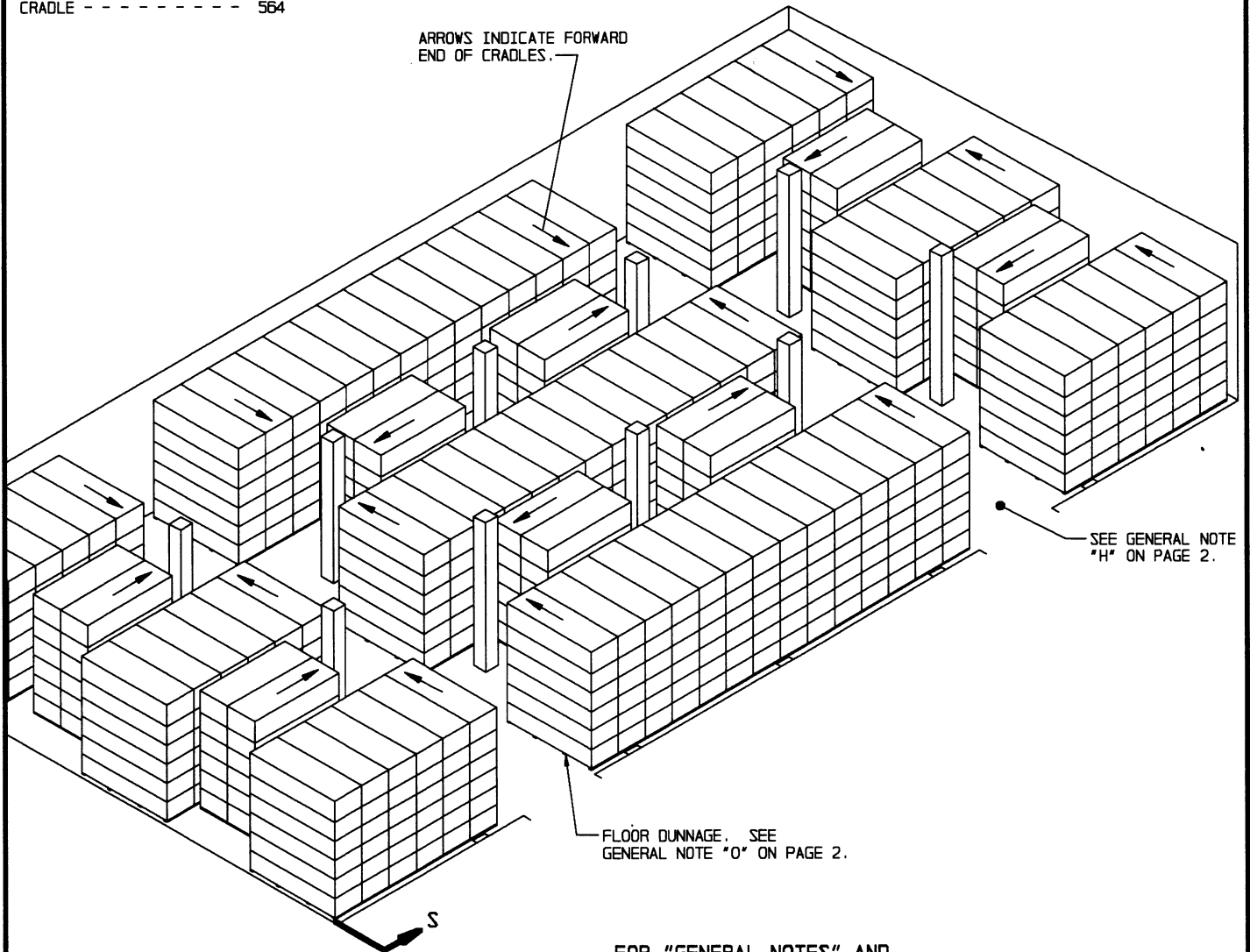


FLOOR DUNNAGE, 2" X 4" X 36"
(4 REOD PER FIRST LAYER CRADLE).
SEE THE "PLACEMENT OF DUNNAGE" DETAIL
ON PAGE 22 AND GENERAL NOTE "O"
ON PAGE 2.

SECTION S-S

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

| ITEM | QUANTITY |
|------------------|----------|
| CRADLE - - - - - | 564 |



ISOMETRIC VIEW
(100'-8" X 50'-0" MAGAZINE)

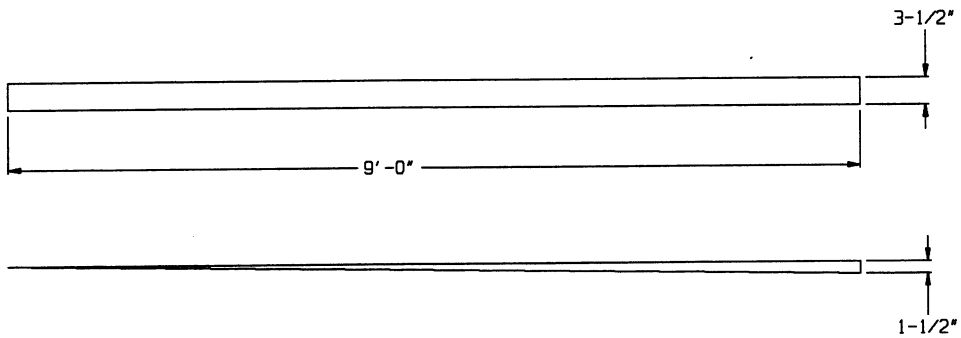
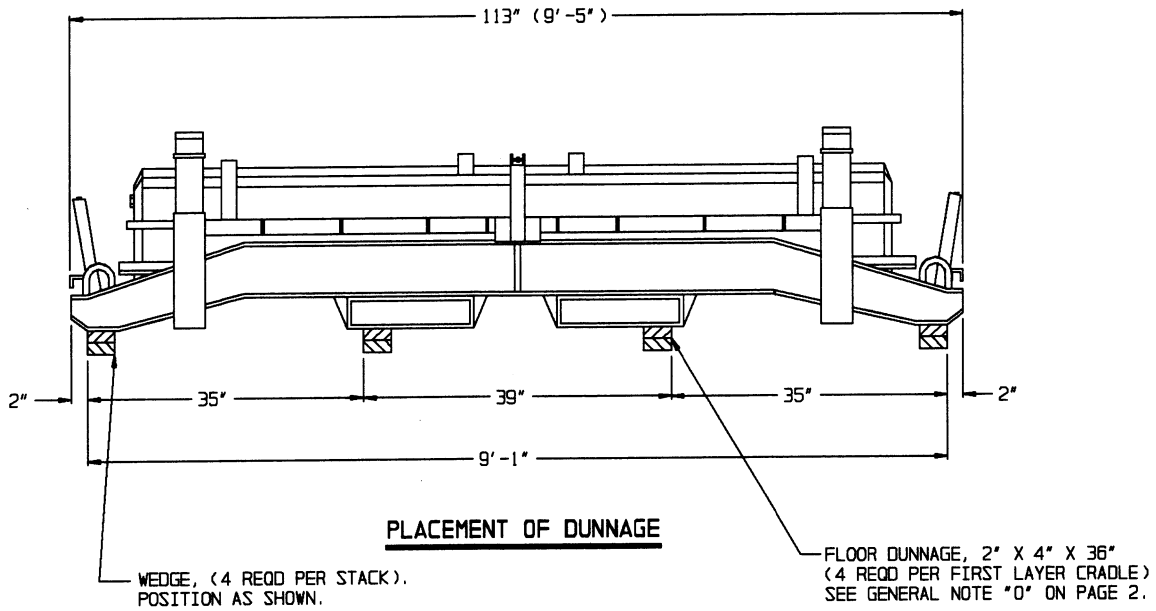
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| BILL OF MATERIAL | | |
|-------------------------------|----------------|--------------|
| 2" X 4" X 36" FLOOR DUNNAGE * | | |
| (PER FIRST LAYER CRADLE) | | |
| 4 REQD | 12 LINEAR FEET | 8 BOARD FEET |

* SEE GENERAL NOTE "O" ON PAGE 2.



NOMINAL SIZED 2" X 4" X 9'-0" MATERIAL CUT AS DETAILED.
NOTE: IF DESIRED 9'-0" WEDGES WHICH MAY BE ON HAND MAY
BE USED. THE QUANTITY REQUIRED IS AS SPECIFIED WITHIN
THE SECTION VIEW.