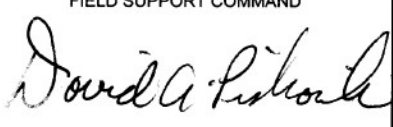

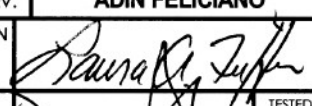
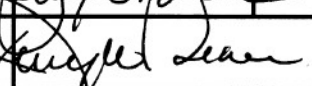


STORAGE IN APPROVED MAGAZINES OF SMALL DIAMETER BOMB SINGLE WEAPON PACKED ONE PER CNU-659 CONTAINER, PALLETIZED

ITEM	INDEX	PAGE(S)
GENERAL NOTES AND MATERIAL SPECIFICATIONS - - - - -		2
PALLET UNIT DETAILS - - - - -		3
TYPICAL STORAGE IN ARCHED OR ROUNDED ROOF MAGAZINES - - - - -		4-7
CORBETTA MAGAZINE - - - - -		8,9
100'-8" L X 50'-0" W RECTANGULAR MAGAZINE - - - - -		10,11
60'-0" L X 40'-0" W X 15'-0" H TYPE II BUNKER MAGAZINE - - - - -		12,13
60'-0" L X 40'-0" W X 11'-0" H TYPE III BUNKER MAGAZINE - - - - -		14,15
40'-0" L X 20'-0" W X 11'-0" H TYPE IV BUNKER MAGAZINE - - - - -		16,17
TYPICAL MULTIPLE-LOT STORAGE PROCEDURES - - - - -		18-23
SHIM LOCATION DETAIL - - - - -		24

U.S. ARMY MATERIEL COMMAND DRAWING

APPROVED, U.S. ARMY FIELD SUPPORT COMMAND		CAUTION: VERIFY PRIOR TO USE AT WWW.DAC.ARMY.MIL THAT THIS IS THE MOST CURRENT VERSION OF THIS DOCUMENT. THIS IS PAGE 1 OF 24.					
 AMSRD-AAR-AIL-TP						DO NOT SCALE	
		ENGINEER OR TECHNICIAN	BASIC REV.	ADIN FELICIANO		REVISION NO. 1	AUGUST 2006
APPROVED BY ORDER OF COMMANDING GENERAL, U.S. ARMY MATERIEL COMMAND  U.S. ARMY DEFENSE AMMUNITION CENTER		TRANSPORTATION ENGINEERING DIVISION			SEE THE REVISION LISTING ON PAGE 2		
		VALIDATION ENGINEERING DIVISION			TESTED	CLASS	DIVISION
		ENGINEERING DIRECTORATE			19	48	8832

PROJECT SP 531-05

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 SMALL DIAMETER BOMB SINGLE WEAPONS 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 TO LOADS OF SMALL DIAMETER BOMB SINGLE WEAPONS PACKED ONE GBU-39/B BOMB PER CNU-659 CONTAINER, PALLETIZED. SUBSEQUENT REFERENCE TO CONTAINER HEREIN MEANS THE CONTAINER WITH AMMUNITION ITEMS. SEE PAGE 3, AMC DRAWING 19-48-8826-SP20J1, AND BOEING DRAWING 70P993152-1003 FOR DETAILS OF THE PALLET UNIT AND CONTAINER.
- 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 PALLET UNITS MUST NOT CONTACT THE SIDES OF A MAGAZINE. THEREFORE, UNITS MUST BE STORED A MINIMUM OF 6" FROM THE SIDEWALL OR CURVATURE OF THE MAGAZINE AS APPLICABLE. TO PROVIDE FOR THIS MANDATORY CLEARANCE REQUIREMENT, UNITS MAY BE ELIMINATED FROM THE DEPICTED STORAGE PATTERN AS NECESSARY.
- F. AISLE DIMENSION SHOWN FOR STORAGE PROCEDURES IN MAGAZINES MAY BE ADJUSTED TO SUIT LOCAL CONDITIONS, VARIATIONS IN PALLET UNIT DIMENSIONS, AND/OR AVAILABLE MATERIALS HANDLING EQUIPMENT (MHE). HOWEVER, A 24" MINIMUM INSPECTION AISLE MUST BE MAINTAINED AT THE END OF THE CONTAINERS WHERE HUMIDITY INDICATORS ARE LOCATED.
- G. THE MAXIMUM FLOOR LOAD FOR A MAGAZINE AS PRESCRIBED WILL NOT BE EXCEEDED.
- H. IF AVAILABLE MHE PERMITS, ADDITIONAL CONTAINERS 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 PALLET 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.

(CONTINUED AT RIGHT)

(GENERAL NOTES CONTINUED)

- K. 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 SHOWN ON PAGES 18 THRU 23.
- L. 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 17 CAN ALSO BE ADAPTED FOR STORAGE MORE THAN ONE LOT, LOTS WHEN STORED IN ACCORDANCE WITH THE 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 45-1/8" PALLET UNIT DIMENSION, EACH ROW MAY BE A DIFFERENT LOT AND READILY REMOVABLE. IN BASIC STORAGE PATTERNS WHERE THE WIDTH OF THE ROW IS ESTABLISHED BY THE 7'-0" PALLET 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 SPECIAL NOTES FOR MULTIPLE-LOT STORAGE ON PAGES 18 THRU 23.
- M. ANY "LIGHT" PALLET UNIT THAT DOES NOT CONTAIN A FULL QUANTITY OF CNU-659 CONTAINERS WILL NOT BE BURIED IN STORAGE, IT MUST BE POSITIONED ADJECENT TO AN AISLE, PREFERABLY IN FRONT OF THE LOT.
- N. PORTIONS OF THE MAGAZINES, SUCH AS SIDEWALLS, END WALLS, AND ROOFS HAVE NOT BEEN SHOWN IN THE STORAGE VIEWS FOR CLARITY PURPOSES.
- O. A PRODUCTION OR STORAGE FACILITY IS AUTHORIZED TO HAVE ONE INCOMPLETE, UN-BANDED PARTIAL UNIT LOAD PER LOT IN A STORAGE STRUCTURE. THE PALLET UNIT MUST BE RE-BANDED WITH THE SAME SIZE AND QUANTITY OF STRAPS AS THE ORIGINAL UNIT.
- P. 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.
- Q. 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 0.454 KG.
- R. OTHER COMPATIBLE ITEMS MAY BE STORED IN A MAGAZINE, WHICH IS PARTIALLY FILLED WITH THE DESIGNATED ITEM.

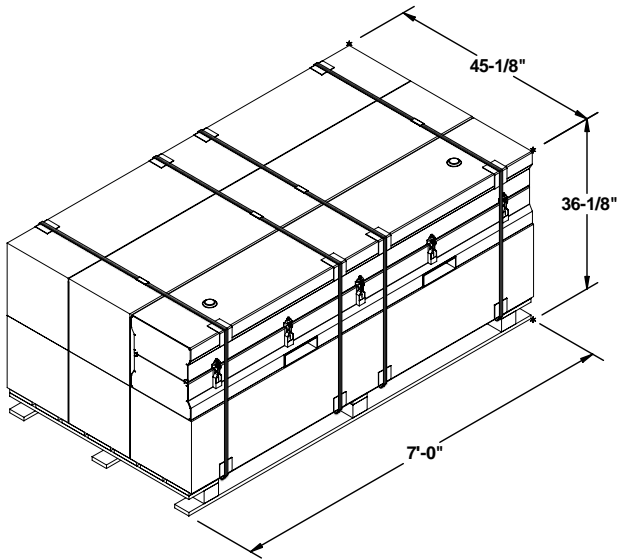
REVISION

REVISION 1, DATED AUGUST 2006, CONSISTS OF:

1. UPDATING THE WEIGHT OF PALLET UNIT.
2. UPDATING THE DRAWING/PART NUMBER.

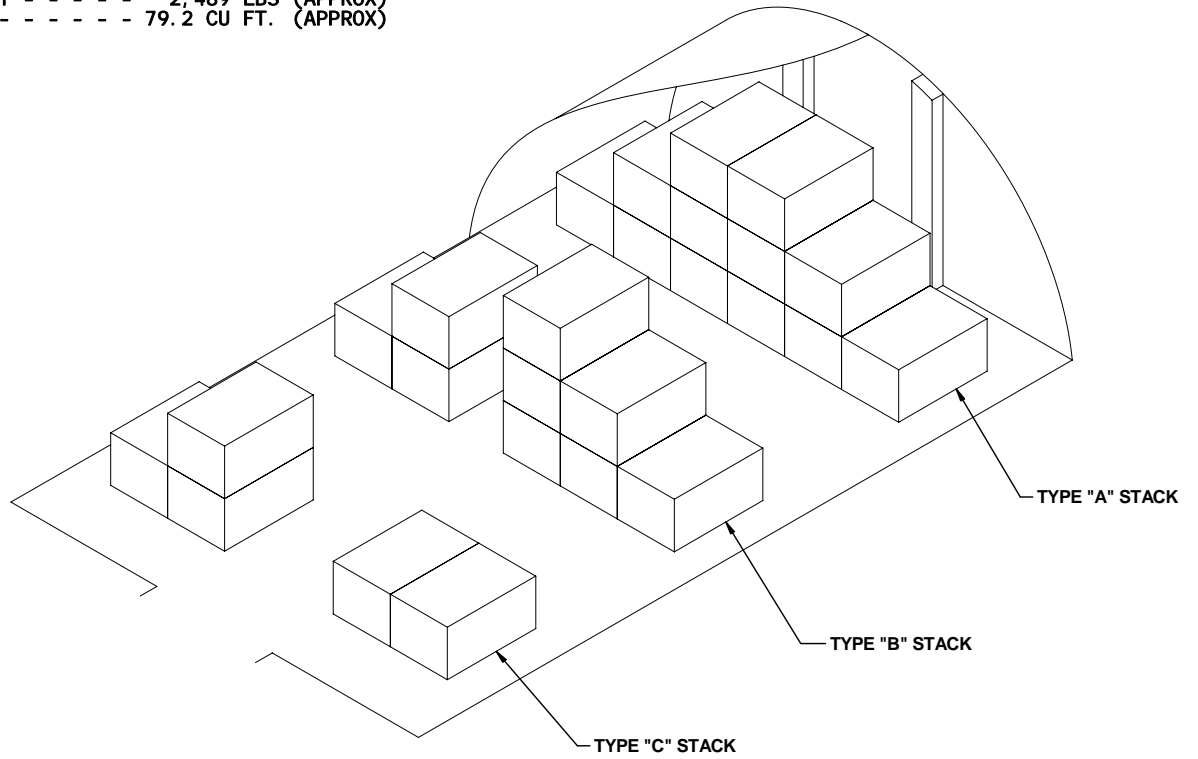
MATERIAL SPECIFICATIONS

LUMBER - - - - - : SEE TM 743-200-1 (DUNNAGE LUMBER) AND VOLUNTARY PRODUCT STANDARD PS 20.



PALLET UNIT

GROSS WEIGHT - - - - - 2,489 LBS (APPROX)
 CUBE - - - - - 79.2 CU FT. (APPROX)

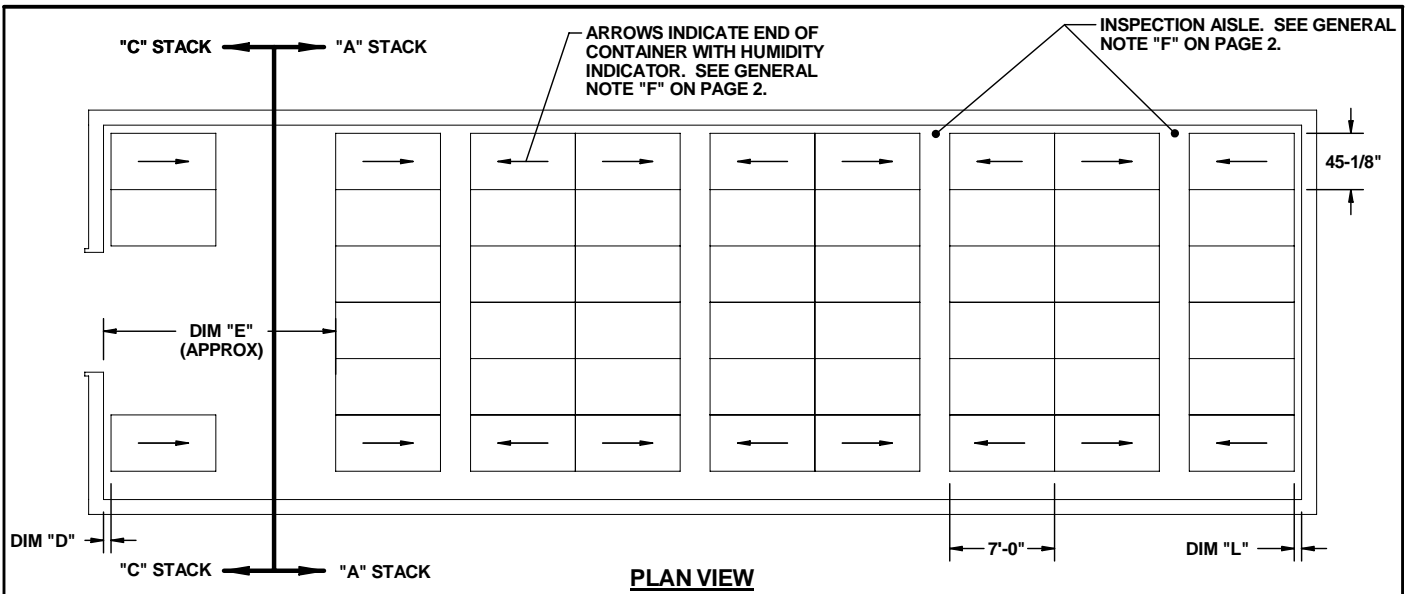


STACK IDENTIFICATION

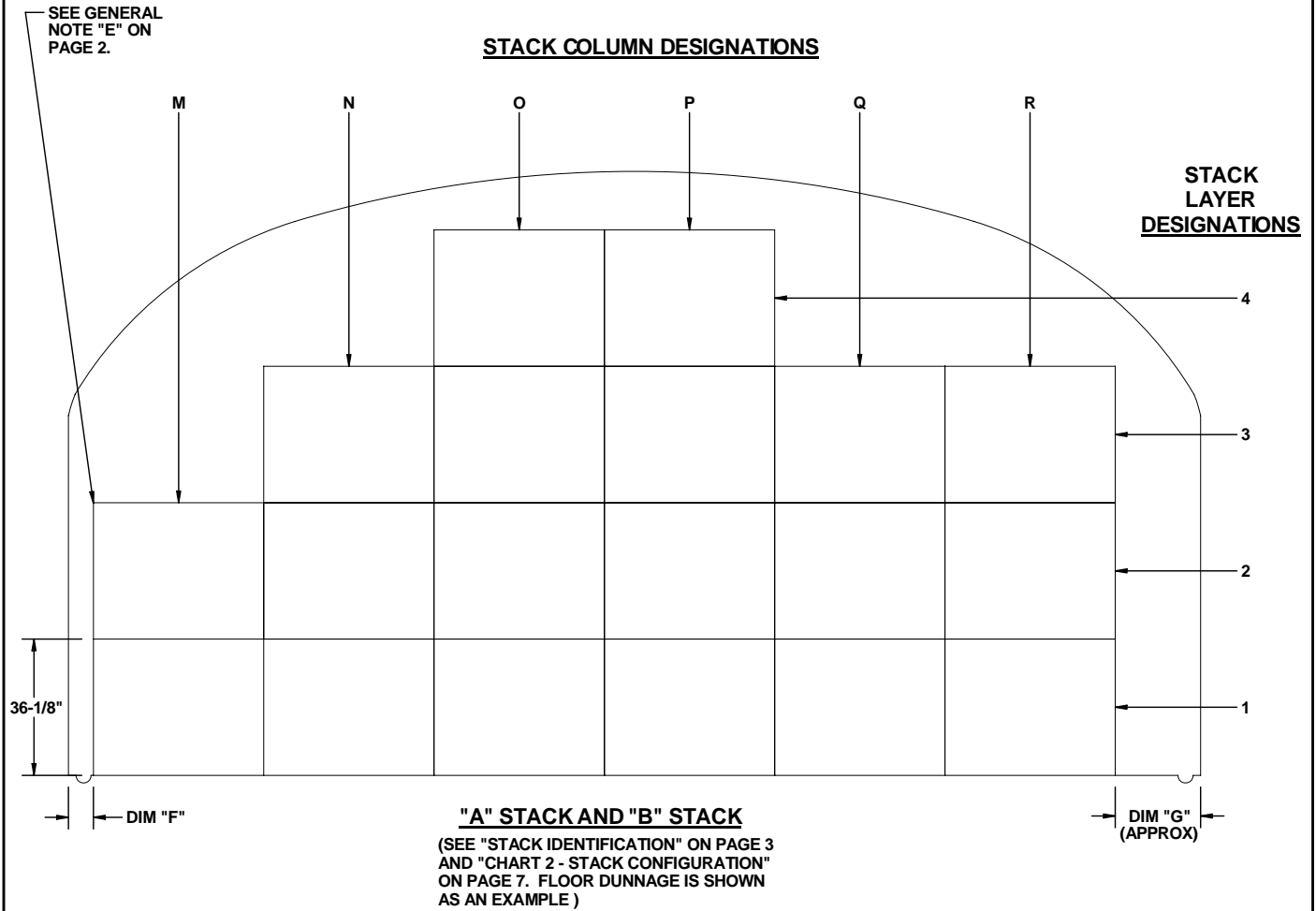
A TYPE "A" STACK IS IDENTIFIED AS A GROUP OF ITEMS /UNITS WHICH EXTENDS FULL WIDTH AND HEIGHT OF THE MAGAZINE, AND IS ONE ITEM/UNIT LONG IN THE LENGTH OF THE MAGAZINE.

A TYPE "B" STACK IS IDENTIFIED AS A GROUP OF ITEMS/UNITS WHICH EXTEND FULL WIDTH AND HEIGHT OF THE MAGAZINE, AND IS ONE UNIT/ITEM LONG, BUT HAS AN AISLE AT OR NEAR THE CENTER OF THE WIDTH OF THE STACK.

A TYPE "C" STACK IS IDENTIFIED AS A GROUP OF ITEMS/UNITS WHICH IS ONE UNIT/ITEM LONG AND CONSISTS OF PARTIAL STACKS ON EACH SIDE OF THE MAGAZINE, USUALLY ONE ITEM/UNIT HIGH ON ONE SIDE OF THE MAGAZINE.



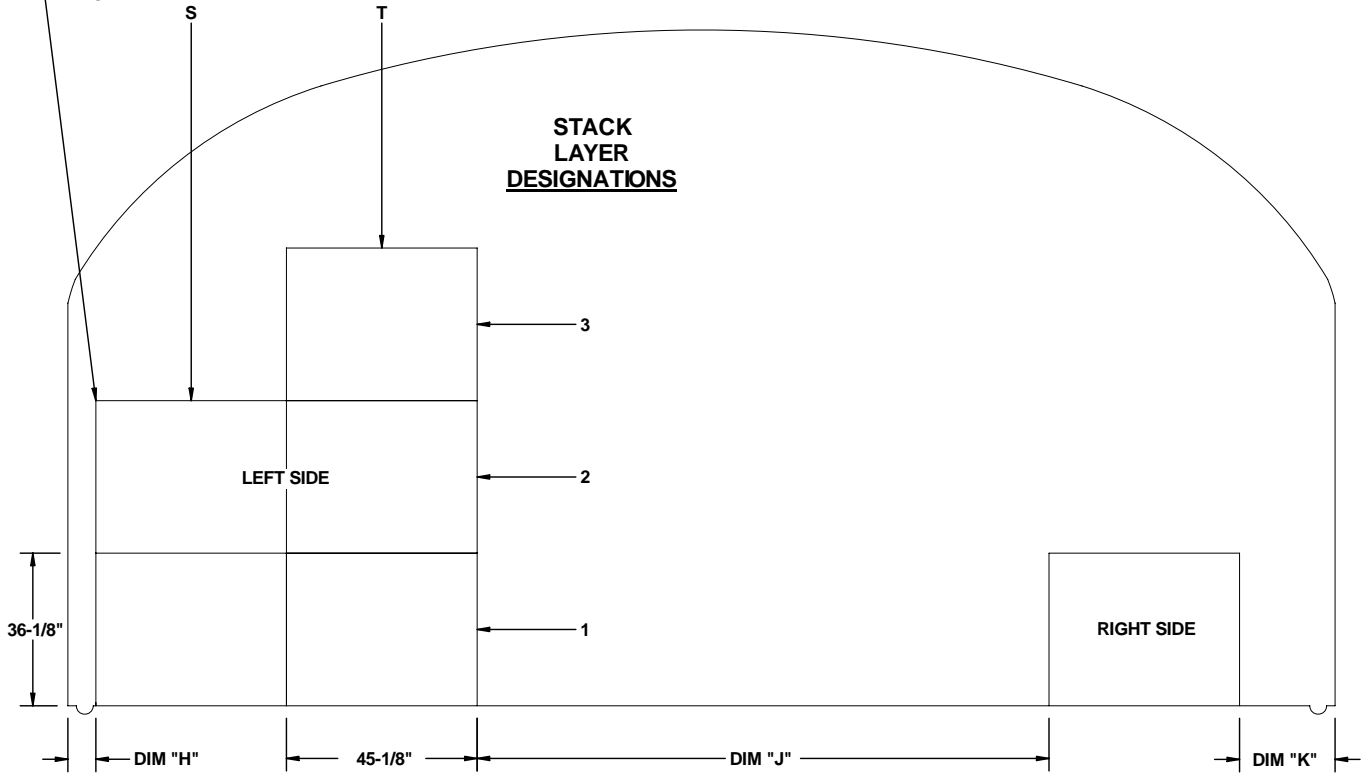
NOTE: FOR IDENTIFICATION OF LETTERED DIMENSIONS REFER TO CHART 1 ON PAGE 6.



**STACK
COLUMN
DESIGNATIONS**

SEE GENERAL
NOTE "E" ON
PAGE 2.

**STACK
LAYER
DESIGNATIONS**

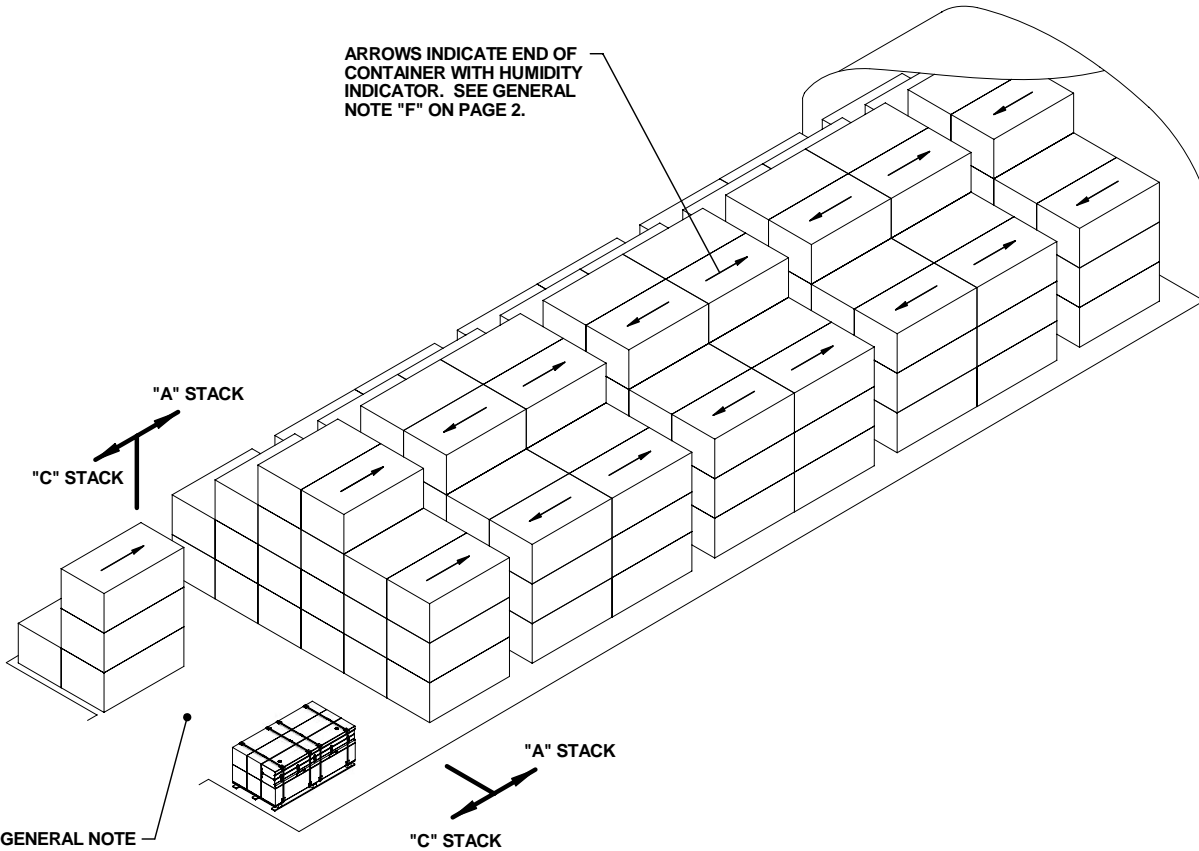


"C" STACK

TYPICAL "C" STACK FOR STRADLEY MAGAZINE.
(SEE "STACK IDENTIFICATION " ON PAGE 3 AND
"CHART 2 - STACK CONFIGURATION" ON PAGE 7)

NOTE: FOR IDENTIFICATION OF
LETTERED DIMENSIONS REFER
TO CHART 1 ON PAGE 6.

ARROWS INDICATE END OF CONTAINER WITH HUMIDITY INDICATOR. SEE GENERAL NOTE "F" ON PAGE 2.



ISOMETRIC VIEW

STRADLEY MAGAZINE SHOWN AS TYPICAL.

CHART 1 - DIMENSIONS

MAGAZINE DIMENSIONS	MAGAZINE TYPE													
	IGLOO			ARCH 12'		ARCH 11'		ARCH 10'		OVAL ARCH	STRADLEY	STEEL ARCH		
	40'-4"	60'-8"	81'-0"	26'-6"	40'-0"	80'-0"	40'-0"	80'-0"	40'-0"	80'-0"	89'-0"	80'-0"	59'-0"	89'-0"
LENGTH	40'-4"	60'-8"	81'-0"	26'-6"	40'-0"	80'-0"	40'-0"	80'-0"	40'-0"	80'-0"	89'-0"	80'-0"	59'-0"	89'-0"
WIDTH	26'-6"			26'-6"	25'-0"	25'-0"	25'-0"		25'-0"		24'-10"	25'-0"	25'-0"	24'-11"
HEIGHT	12'-9"			12'-1-3/4"		11'-0"		10'-0"		14'-5"	14'-0"	14'-0"	14'-0"	13'-6"
DIMENSIONS	PALLET UNIT SPACING DIMENSIONS													
DIM "D" ("C" STACK FRONT)	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"
DIM "E" (M HE AISLE APPROX)	7'-10"	12'-0"	9'-6"	16'-0"	15'-10"	14'-10"	8'-0"	7'-10"	7'-8"	8'-6"	17'-9"	15'-6"	10'-7"	17'-9"
DIM "F" ("A" STACK LEFT)	12"	12"	12"	24"	15"	15"	20"	20"	23"	23"	15"	7"	15"	14"
DIM "G" ("A" STACK RIGHT)	35"	35"	35"	24"	14"	14"	55"	55"	51"	51"	15"	22"	14"	14"
DIM "H" ("C" STACK LEFT)	NA	12"	12"	24"	15"	15"	NA	NA	NA	NA	15"	7"	15"	14"
DIM "J" (M HE AREA)	NA	11'-5"	11'-5"	11'-4"	11'-3"	11'-3"	NA	NA	NA	NA	11'-3"	11'-3"	11'-3"	11'-3"
DIM "K" ("C" STACK RIGHT)	11"	35"	35"	24"	14"	14"	55"	55"	23"	22"	15"	22"	14"	14"
DIM "L" ("A" STACK BACK)	6"	6"	6"	14"	14"	14"	24"	14"	6"	6"	6"	6"	6"	6"

CHART 2 - STACK CONFIGURATION

QUANTITY PER MAGAZINE	MAGAZINE TYPE													
	IGLOO			ARCH 12'	ARCH 12' X 25' W		ARCH 11'		ARCH 10'		OVAL ARCH	STRADLEY	STEEL ARCH	
	40'-4" L	60'-8" L	81'-0" L	26'-6" W	40'-0" L	80'-0" L	40'-0" L	80'-0" L	40'-0" L	80'-0" L			59'-0" L	89'-0" L
61	95	140	117	47	117	45	100	41	91	206	157	114	168	

"A" STACK CONFIGURATION

LAYER	CONTAINERS PER LAYER													
1	6 (M-R)			6 (M-R)	6 (M-R)		5 (M-Q)		5 (M-Q)		6 (M-R)	6 (M-R)	6 (M-R)	
2	5 (N-R)			4 (N-Q)	4 (N-Q)		4 (N-Q)		4 (N-Q)		6 (M-R)	6 (M-R)	6 (M-R)	
3	4 (N-Q)			4 (N-Q)	4 (N-Q)		2 (O-P)		1 (O)		6 (M-R)	5 (N-R)	4 (N-Q)	
4	0			0	0		0		0		4 (N-Q)	2 (O-P)	2 (O-P)	
SINGLE STACK TOTAL	15			14	14		11		10		22	19	18	
NUMBER OF STACKS	4	6	9	8	3	8	4	9	4	9	9	8	6	9
"A" STACK TOTAL	60	90	135	112	42	112	44	99	40	90	198	152	108	162

"C" STACK CONFIGURATION - LEFT SIDE

LAYER	CONTAINERS PER LAYER									
1		2 (S-T)		2 (S-T)				2 (S-T)	2 (S-T)	2 (S-T)
2	0	1 (T)		1 (T)		0	0	2 (S-T)	1 (T)	2 (S-T)
3		1 (T)		1 (T)				2 (S-T)	1 (T)	1 (T)
4		0		0				1 (T)	0	0
SINGLE STACK TOTAL	0	4		4		0	0	7	4	5
NUMBER OF STACKS	0	1		1		0	0	1	1	1
"C" STACK LF TOTAL	0	4		4		0	0	7	4	5

"C" STACK CONFIGURATION - RIGHT SIDE

"C" STACK RT TOTAL	1	1	1		1		1	1	1	
-----------------------	---	---	---	--	---	--	---	---	---	--

SPECIAL NOTES:

1. THE FOLLOWING NOTES, CHART 1 ON PAGE 6 AND CHART 2 ON THIS PAGE ARE PRESENTED AS GUIDANCE IN THE SELECTION OF A STORAGE PATTERN, AND IN DETERMINING THE QUANTITY OF PALLET UNITS WHICH CAN BE STORED IN THE STORAGE MAGAZINES LISTED IN THESE CHARTS.
2. CHART 1 ON PAGE 6 DESCRIBES THE STORAGE MAGAZINE GENERAL DIMENSIONS AND THE DIMENSIONS OF THE PALLET UNIT SPACING WITHIN THE STORAGE MAGAZINES.
3. DIMENSIONS "A", "B" AND "C" HAVE BEEN OMITTED TO AVOID CONFUSION WITH STACKS "A", "B" AND "C".
4. CHART 2 ON THIS PAGE DETAILS THE QUANTITY OF PALLET UNITS IN EACH TYPE OF MAGAZINE AND THE LAYOUT OF THE STACKS FOR EACH TYPE OF MAGAZINE. THE CHART SHOWS THE NUMBER OF UNITS IN EACH STACK LAYER AND THE LOCATION OF THE PALLET UNIT ON EACH LAYER.

(CONTINUED AT RIGHT)

EXAMPLE:

CHART 2 – "A" STACK CONFIGURATION
MAGAZINE: STRADLEY

LAYER NUMBER 1: 6 (M-R)
LAYER NUMBER 2: 6 (M-R)
LAYER NUMBER 3: 5 (N-R)
LAYER NUMBER 4: 2 (O-P)

EXPLANATION:

LAYER 1 (BOTTOM LAYER) HAS SIX PALLET UNITS FROM THE "M" COLUMN (NEAREST THE LEFT SIDE OF THE MAGAZINE) TO THE "R" COLUMN.

LAYER 2 (ON TOP OF LAYER 1) HAS SIX PALLET UNITS FROM THE "M" COLUMN (NEAREST THE LEFT SIDE OF THE MAGAZINE) TO THE "R" COLUMN.

LAYER 3 (ON TOP OF LAYER 2) HAS FIVE PALLET UNITS FROM THE "N" COLUMN TO THE "R" COLUMN.

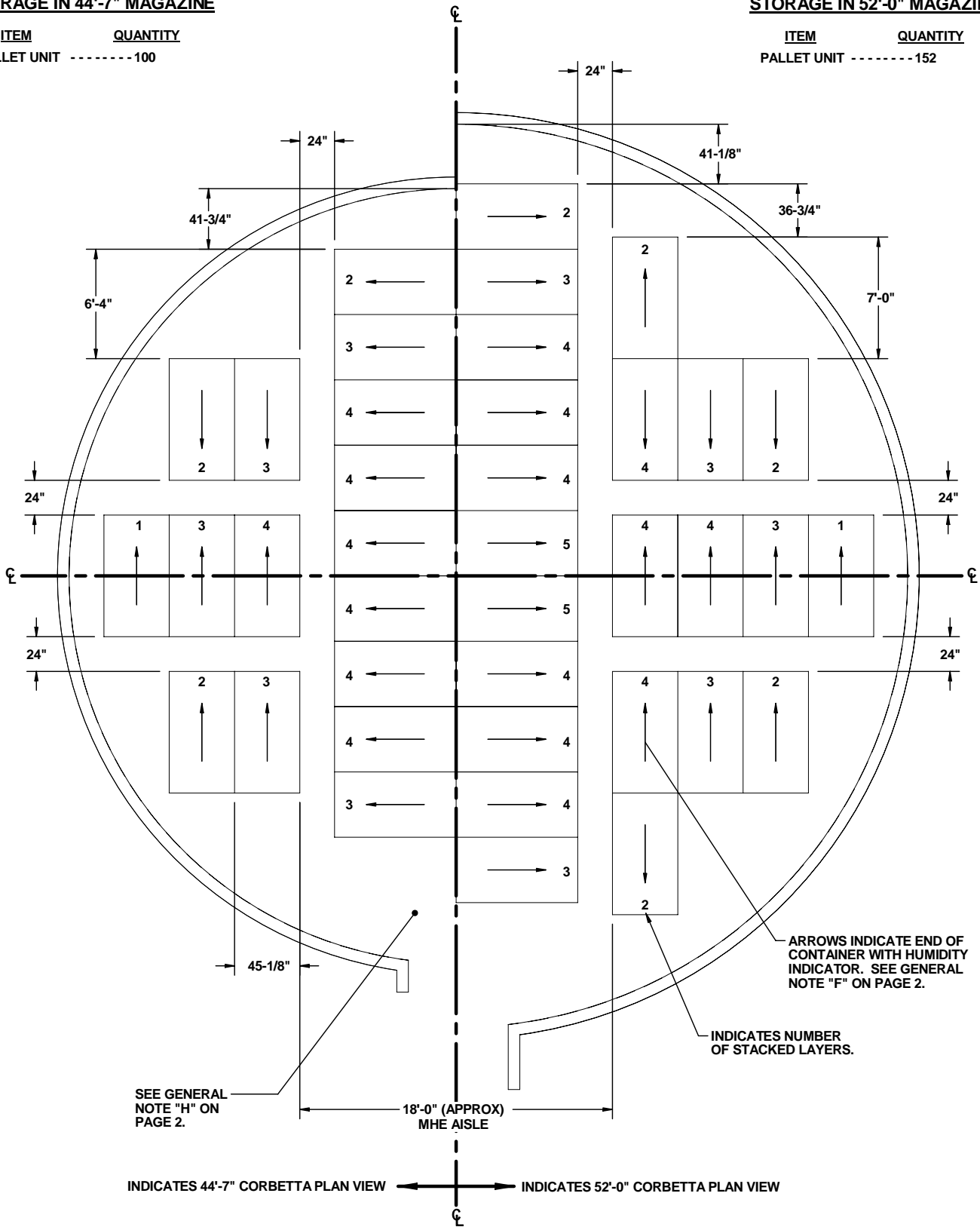
LAYER 4 (ON TOP OF LAYER 3) HAS TWO PALLET UNITS FROM THE "O" COLUMN TO THE "P" COLUMN (NEAREST THE DOOR).

STORAGE IN 44'-7" MAGAZINE

STORAGE IN 52'-0" MAGAZINE

ITEM QUANTITY
 PALLET UNIT -----100

ITEM QUANTITY
 PALLET UNIT -----152



SEE GENERAL NOTE "H" ON PAGE 2.

ARROWS INDICATE END OF CONTAINER WITH HUMIDITY INDICATOR. SEE GENERAL NOTE "F" ON PAGE 2.

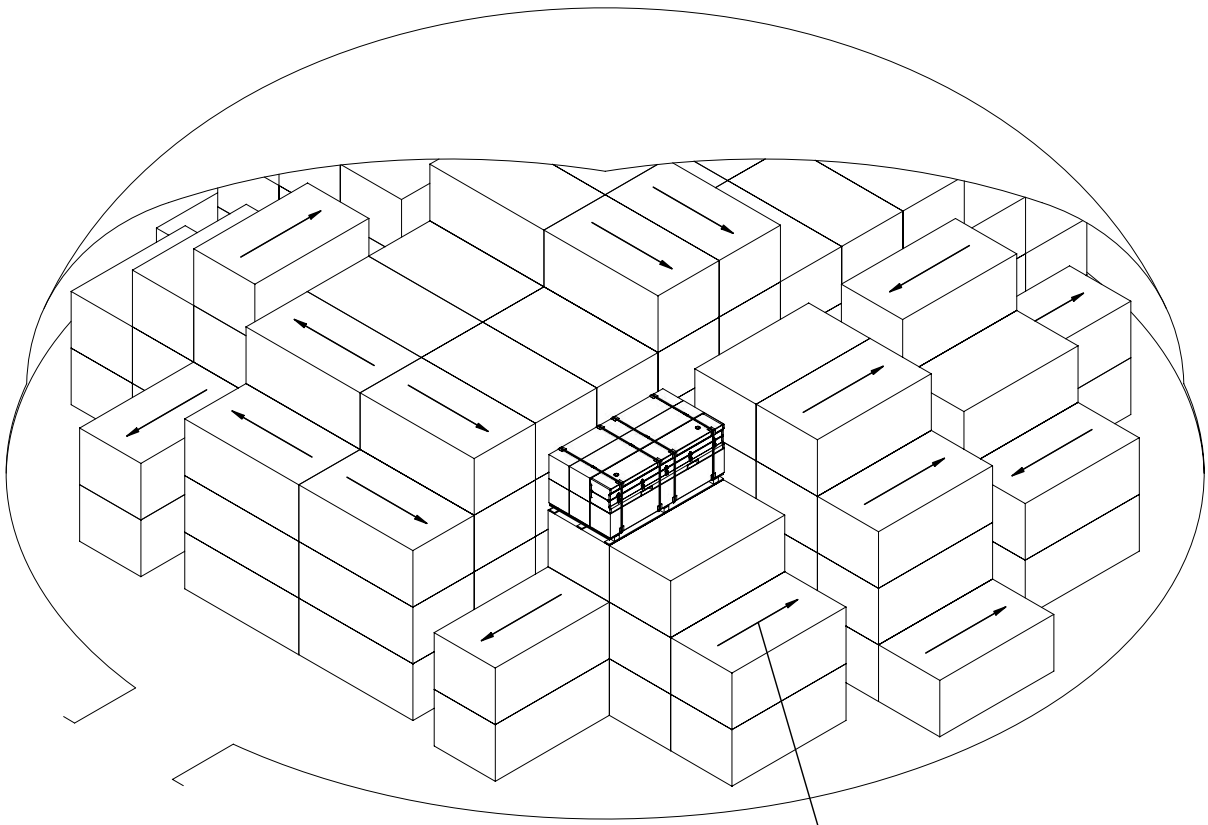
INDICATES NUMBER OF STACKED LAYERS.

INDICATES 44'-7" CORBETTA PLAN VIEW ← → INDICATES 52'-0" CORBETTA PLAN VIEW

PLAN VIEW

THE RIGHT HAND PLAN VIEW INDICATES A 52'-0" CORBETTA MAGAZINE, AND THE LEFT HAND PLAN VIEW INDICATES A 44'-7" CORBETTA MAGAZINE. BOTH SIZE MAGAZINE LAYOUTS ARE SYMMETRICAL AROUND THE VERTICAL CENTER LINE.

CORBETTA MAGAZINE



SEE GENERAL
NOTE "H" ON
PAGE 2.

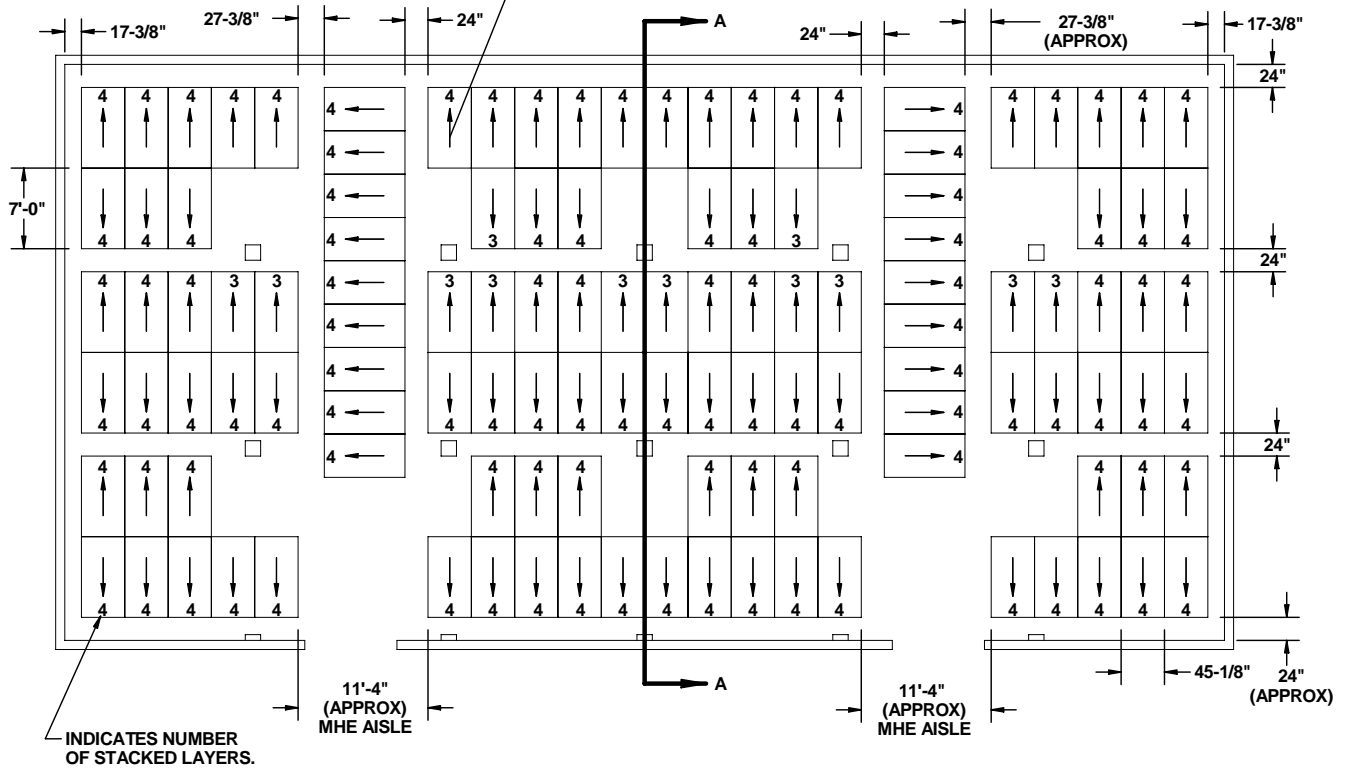
ISOMETRIC VIEW
(52' - 0" DIA MAGAZINE)

ARROWS INDICATE END OF
CONTAINER WITH HUMIDITY
INDICATOR. SEE GENERAL
NOTE "F" ON PAGE 2.

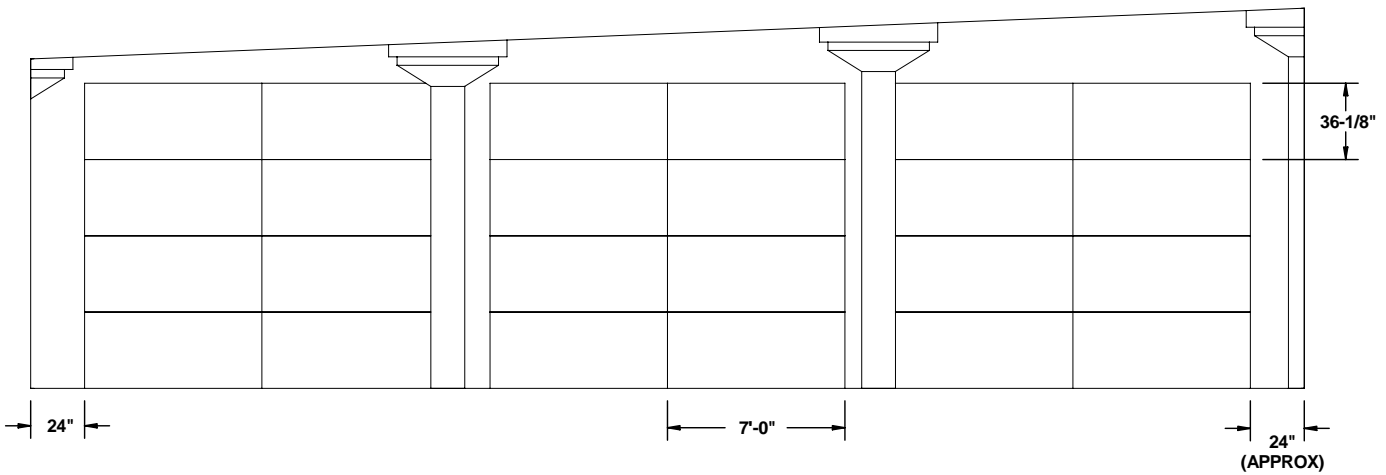
**STORAGE IN RECTANGULAR
MAGAZINE**

ITEM QUANTITY
PALLET UNIT -----476

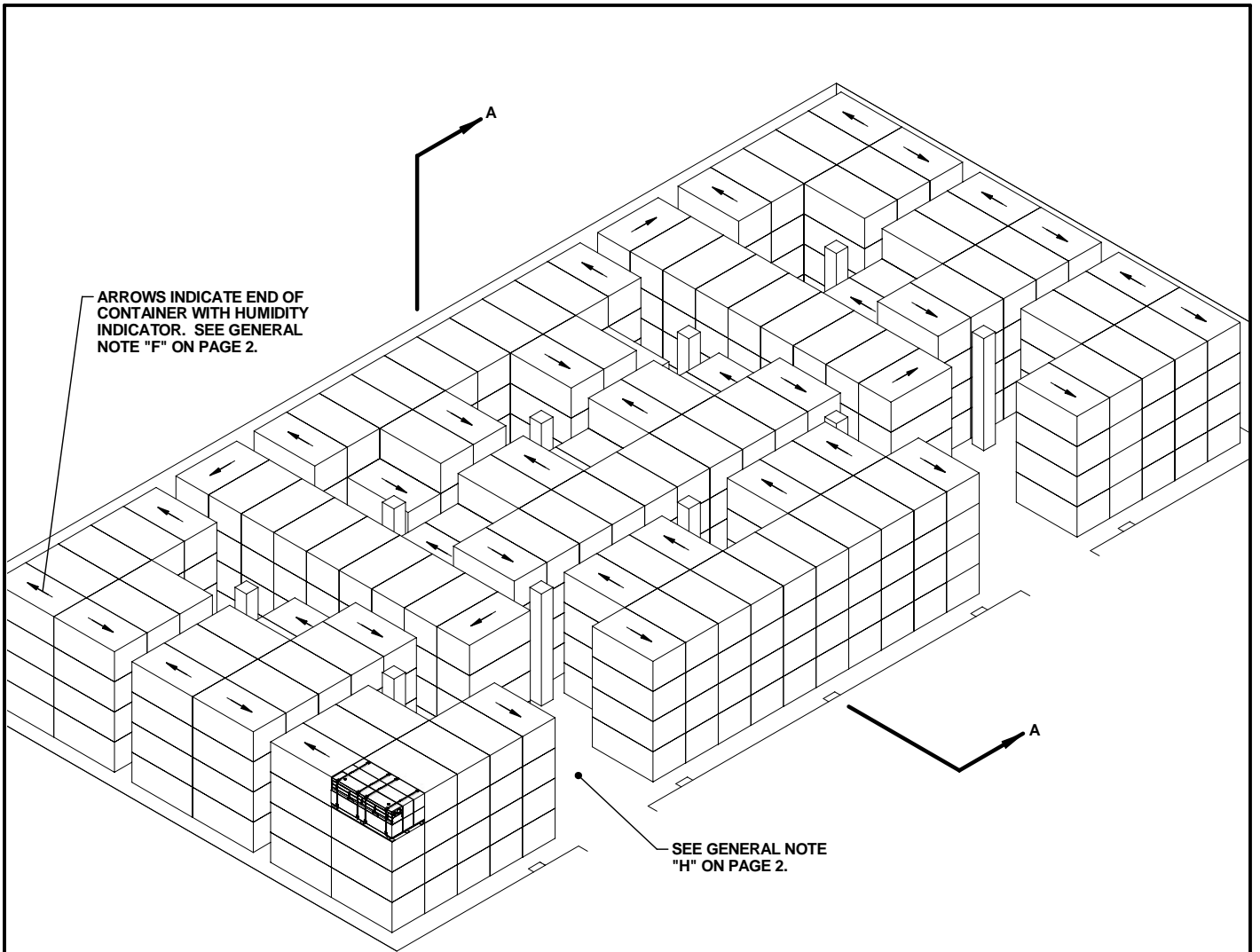
ARROWS INDICATE END OF
CONTAINER WITH HUMIDITY
INDICATOR. SEE GENERAL
NOTE "F" ON PAGE 2.



PLAN VIEW



SECTION A-A



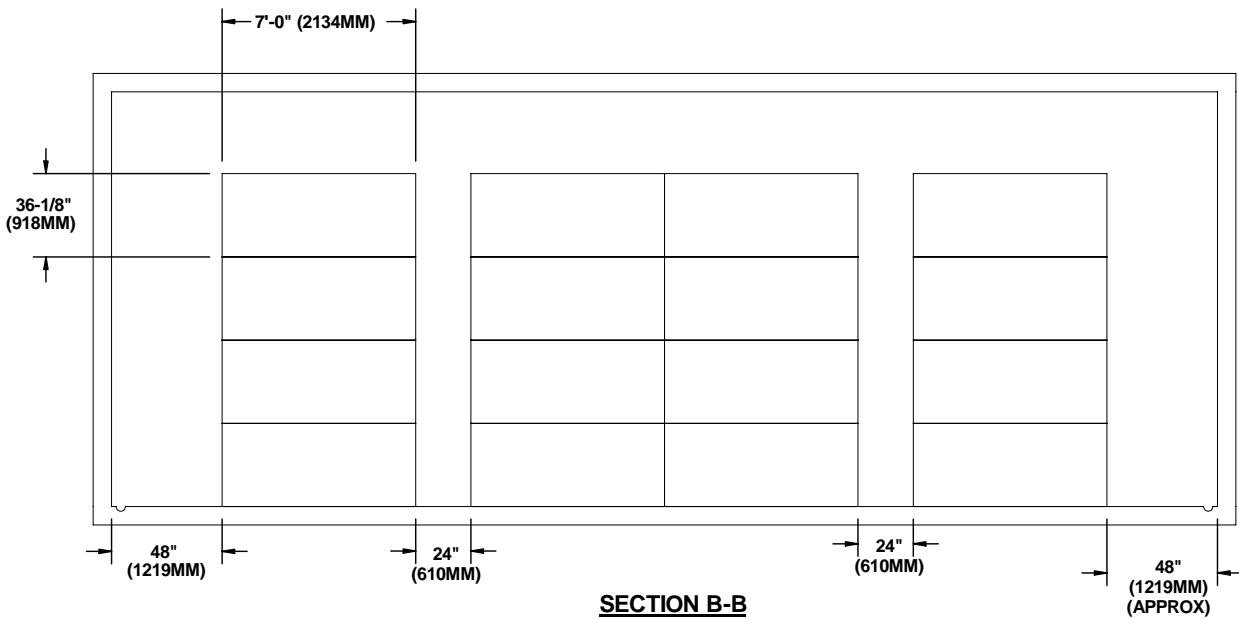
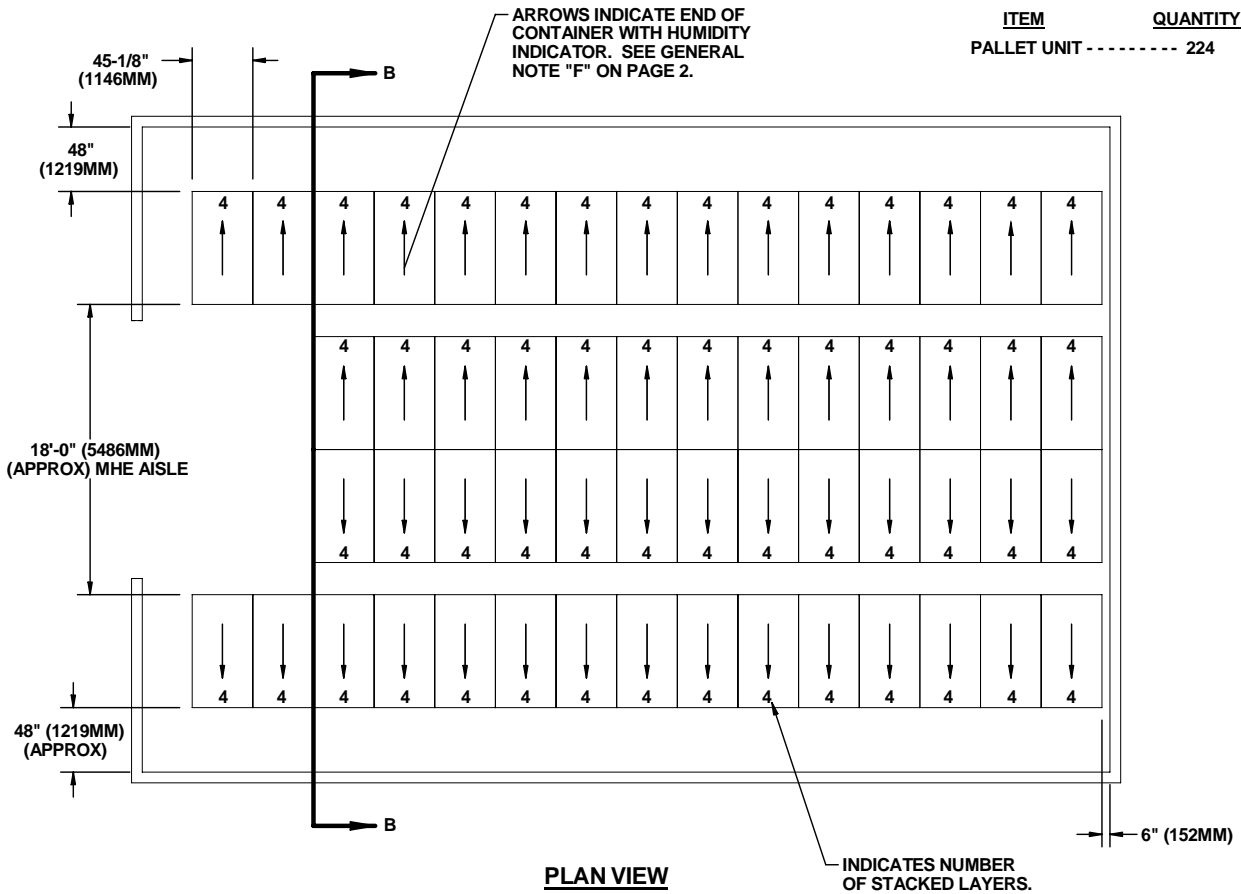
ISOMETRIC VIEW

(50'-0" MAGAZINE)

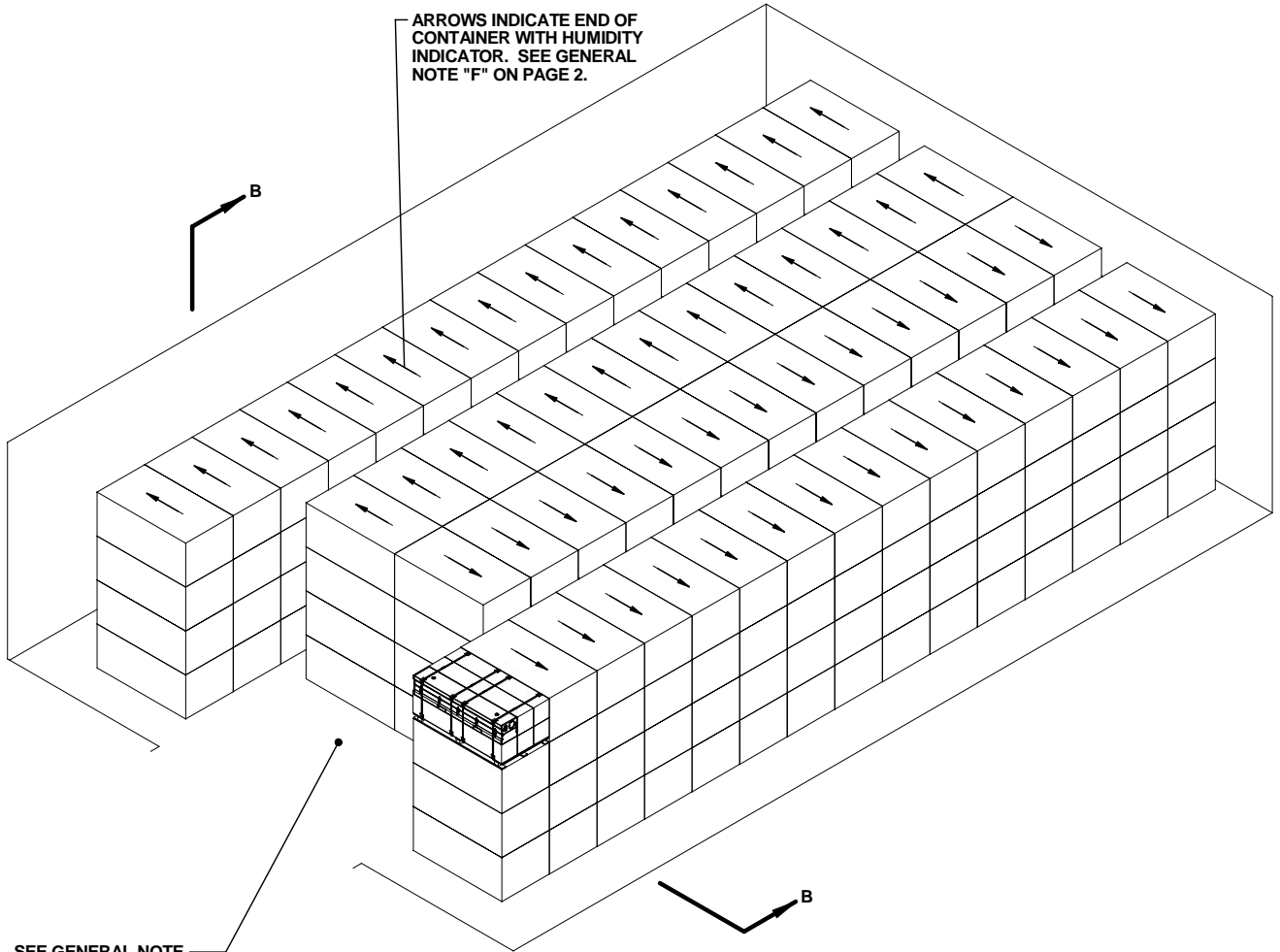
100'-8" L X 50'-0" W RECTANGULAR MAGAZINE

**STORAGE IN TYPE II BUNKER
MAGAZINE**

ITEM QUANTITY
PALLET UNIT ----- 224

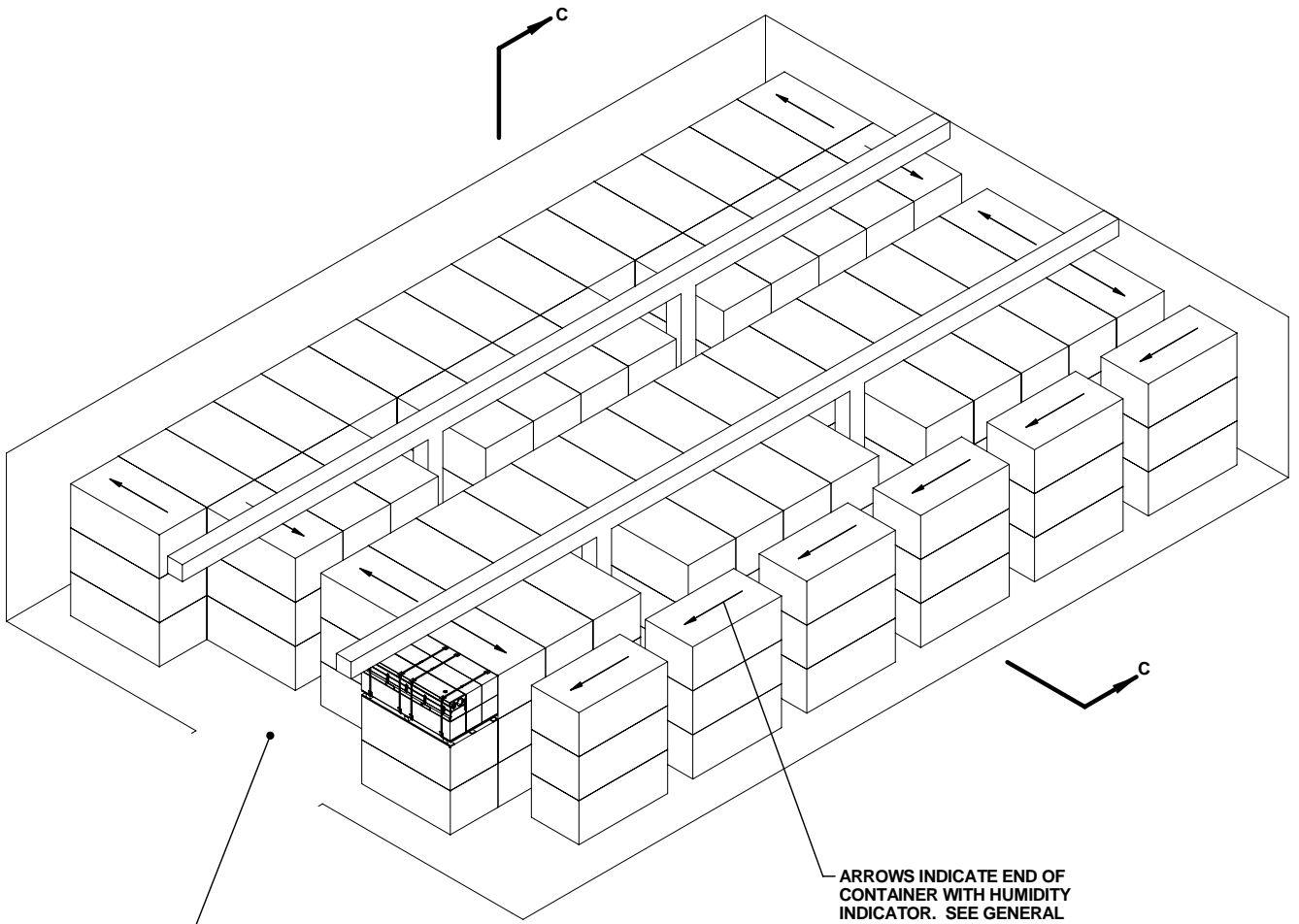


ARROWS INDICATE END OF CONTAINER WITH HUMIDITY INDICATOR. SEE GENERAL NOTE "F" ON PAGE 2.



SEE GENERAL NOTE "H" ON PAGE 2.

ISOMETRIC VIEW
(TYPE II BUNKER MAGAZINE)



SEE GENERAL NOTE
"H" ON PAGE 2.

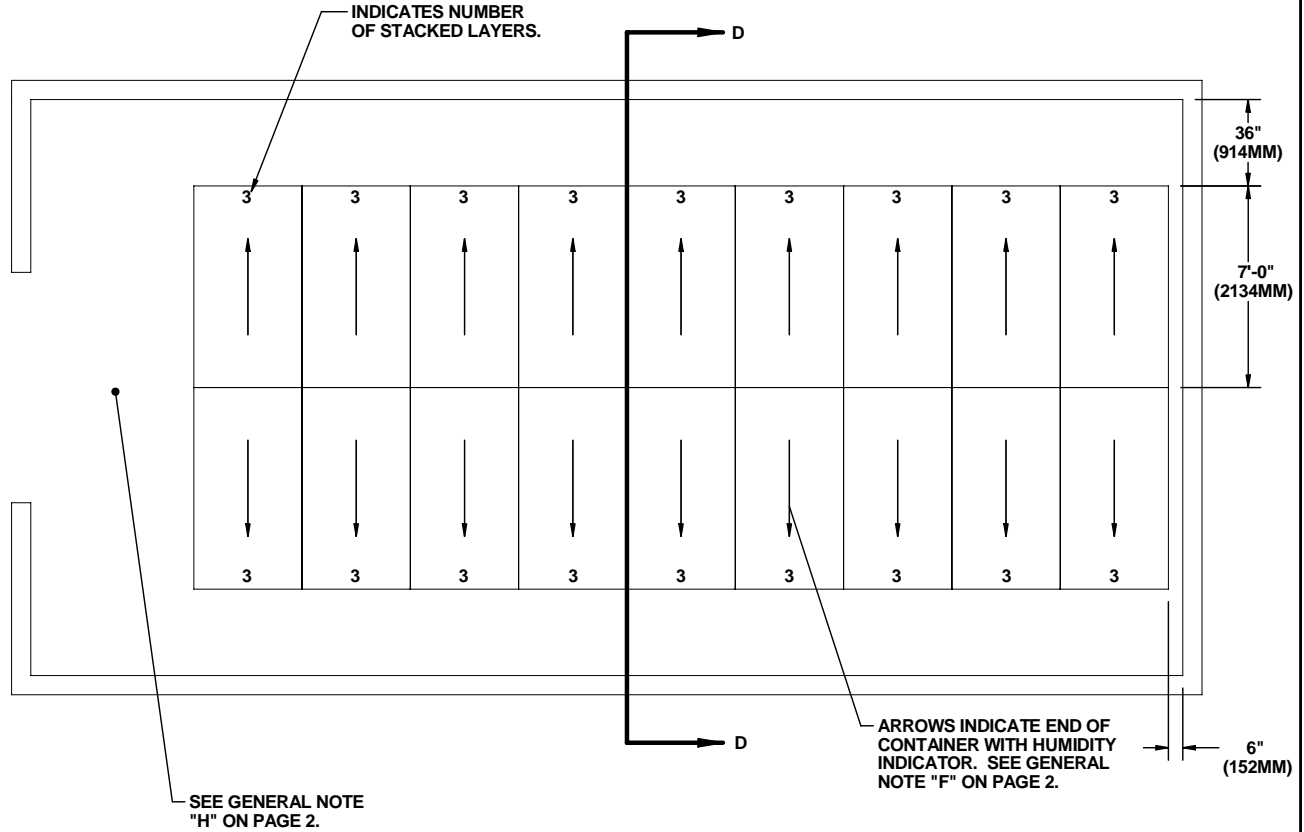
ARROWS INDICATE END OF
CONTAINER WITH HUMIDITY
INDICATOR. SEE GENERAL
NOTE "F" ON PAGE 2.

ISOMETRIC VIEW
(TYPE III BUNKER MAGAZINE)

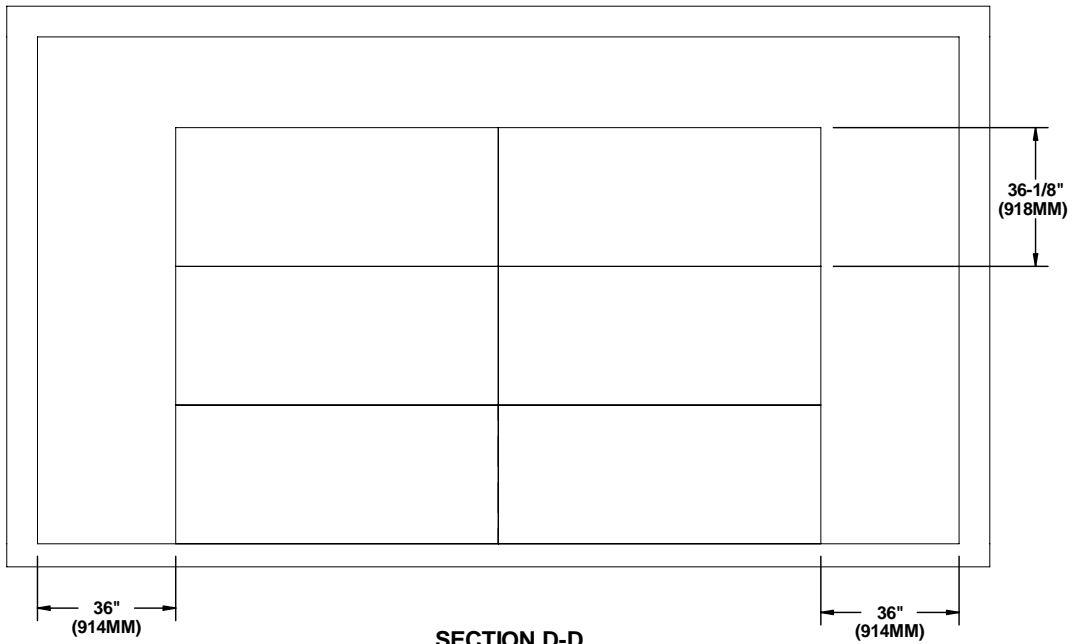
60'-0" L X 40'-0" W X 11'-0" H TYPE III BUNKER MAGAZINE

**STORAGE IN TYPE IV BUNKER
MAGAZINE**

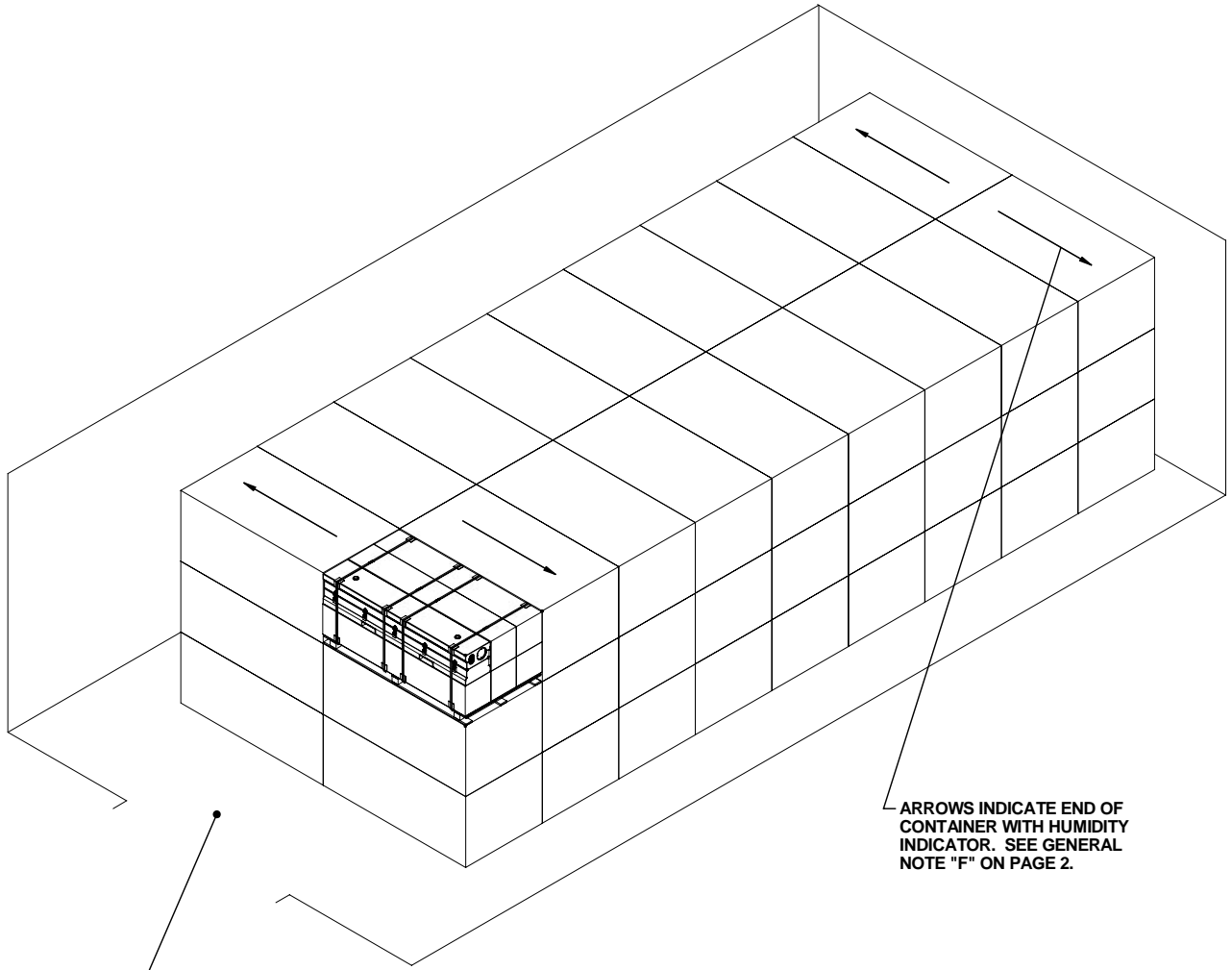
ITEM QUANTITY
PALLET UNIT ----- 54



PLAN VIEW



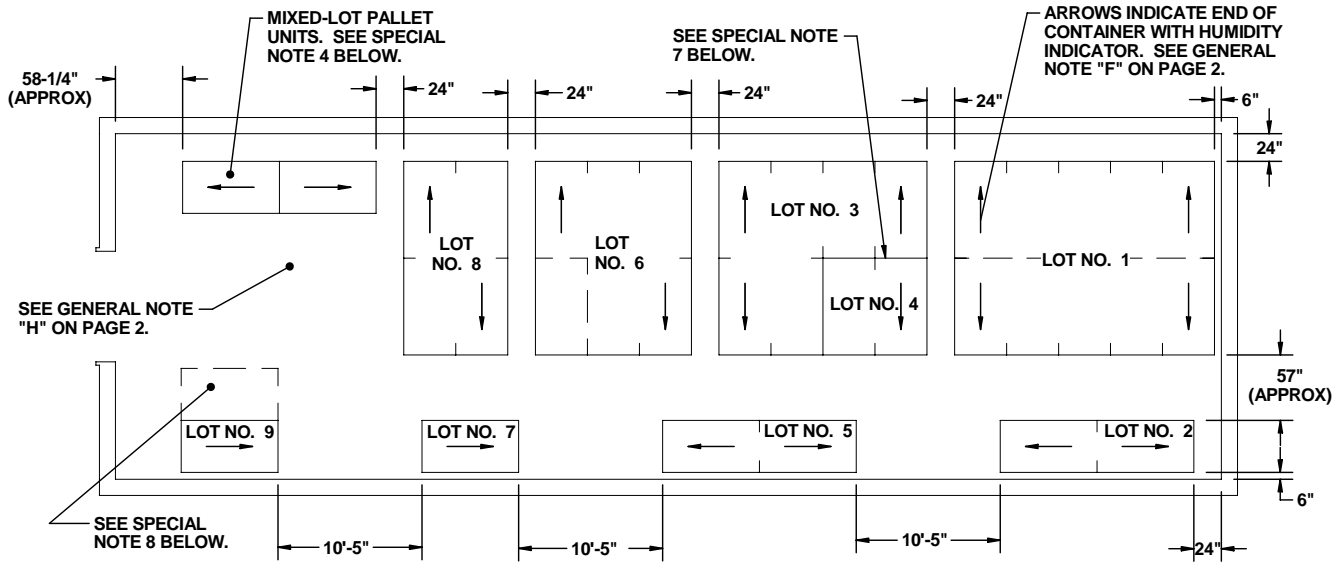
SECTION D-D



ARROWS INDICATE END OF CONTAINER WITH HUMIDITY INDICATOR. SEE GENERAL NOTE "F" ON PAGE 2.

SEE GENERAL NOTE "H" ON PAGE 2.

ISOMETRIC VIEW
(TYPE IV BUNKER MAGAZINE)



PLAN VIEW

SPECIAL NOTES:

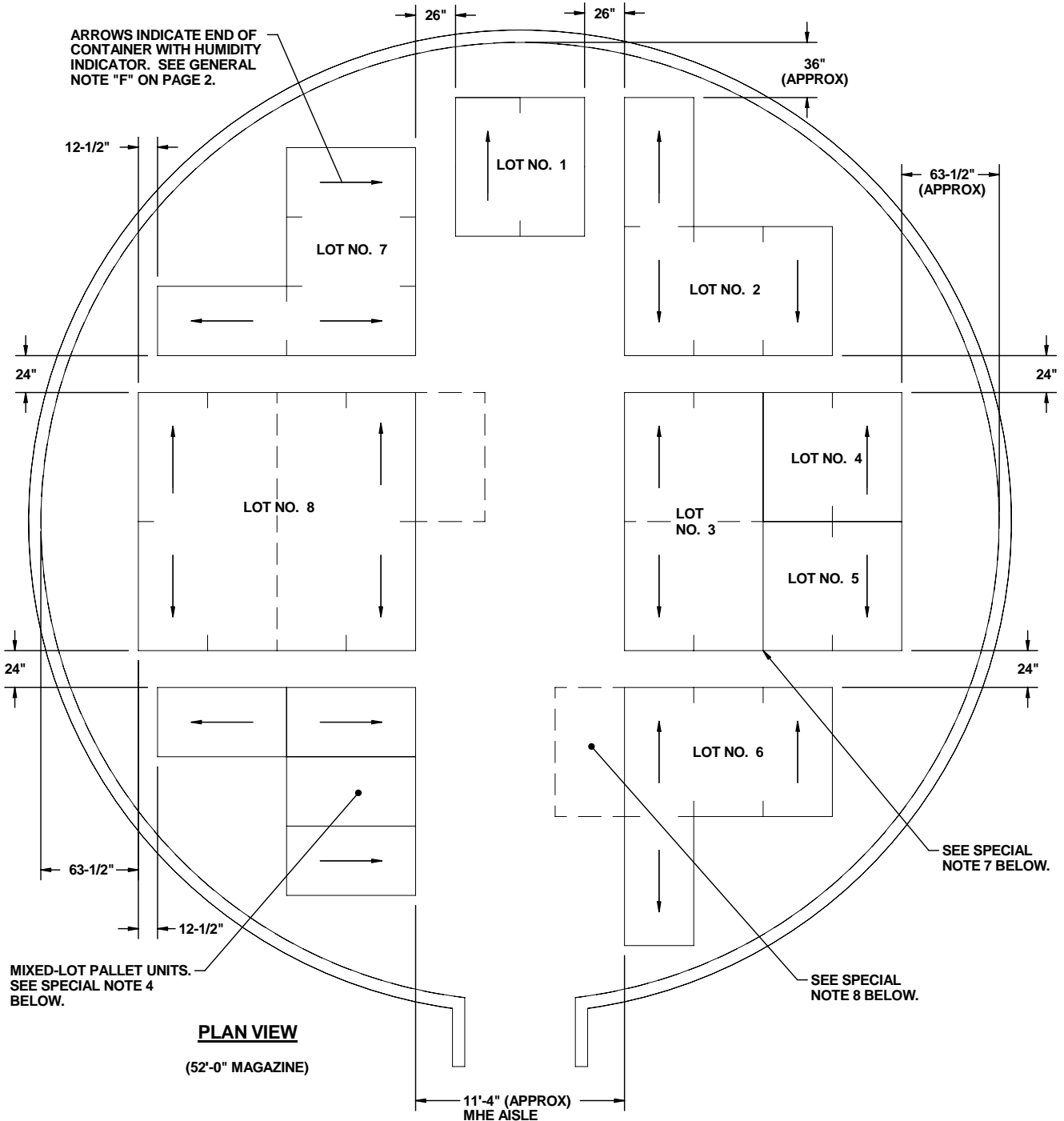
1. THE STORAGE PLAN SHOWN IN THIS PAGE IS TYPICAL ONLY, AND APPLIES TO NUMEROUS LOTS. ADAPTATIONS MAY BE MADE AS NUMBER AND SIZES OF LOTS TO BE STORED IN MAGAZINE REQUIRE.
2. AN INSPECTION/INVENTORY AISLE NOT LESS THAN 24" WIDE MUST BE PROVIDED AT ONE SIDE OR END OF EACH LOT.
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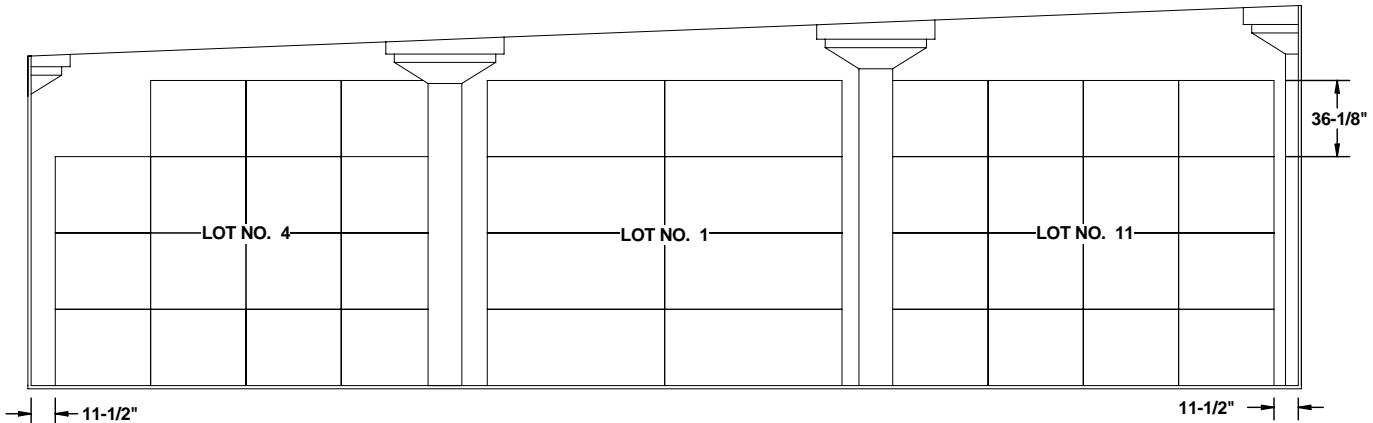
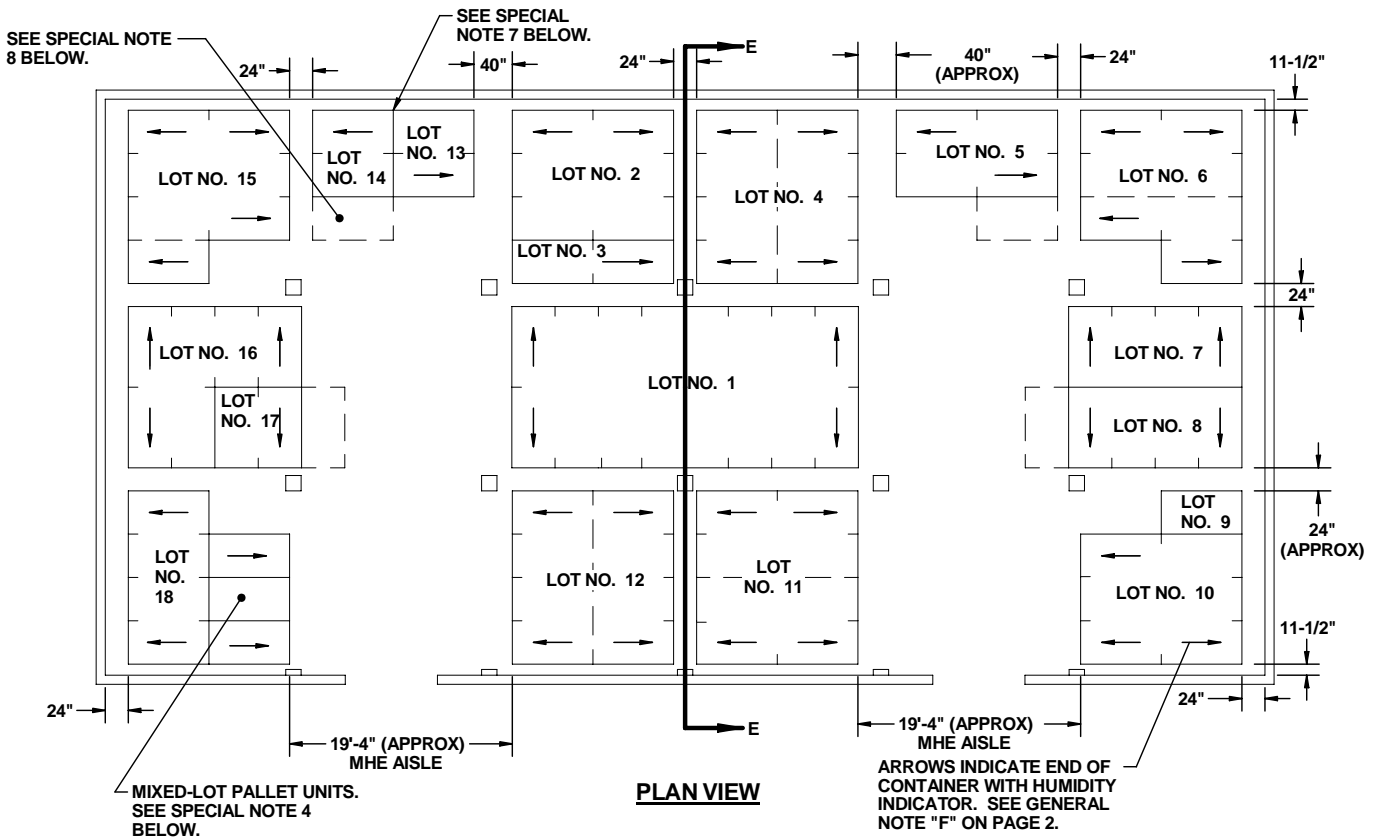
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TYPICAL MULTIPLE-LOT STORAGE IN CORBETTA MAGAZINE

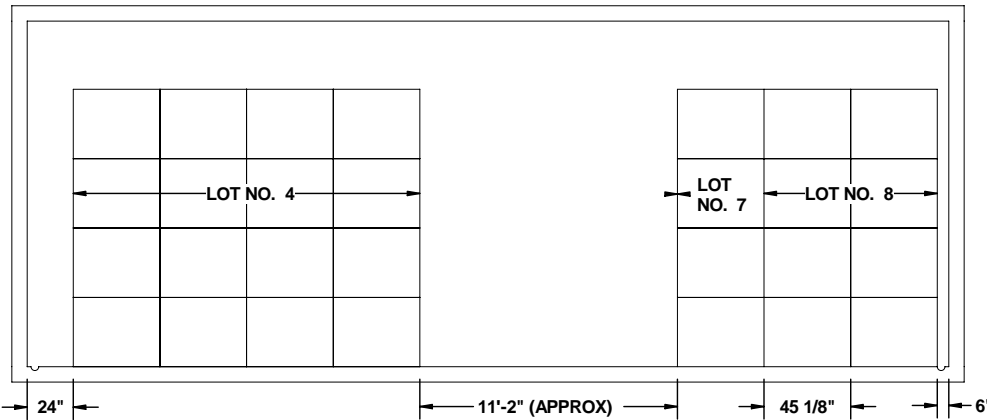
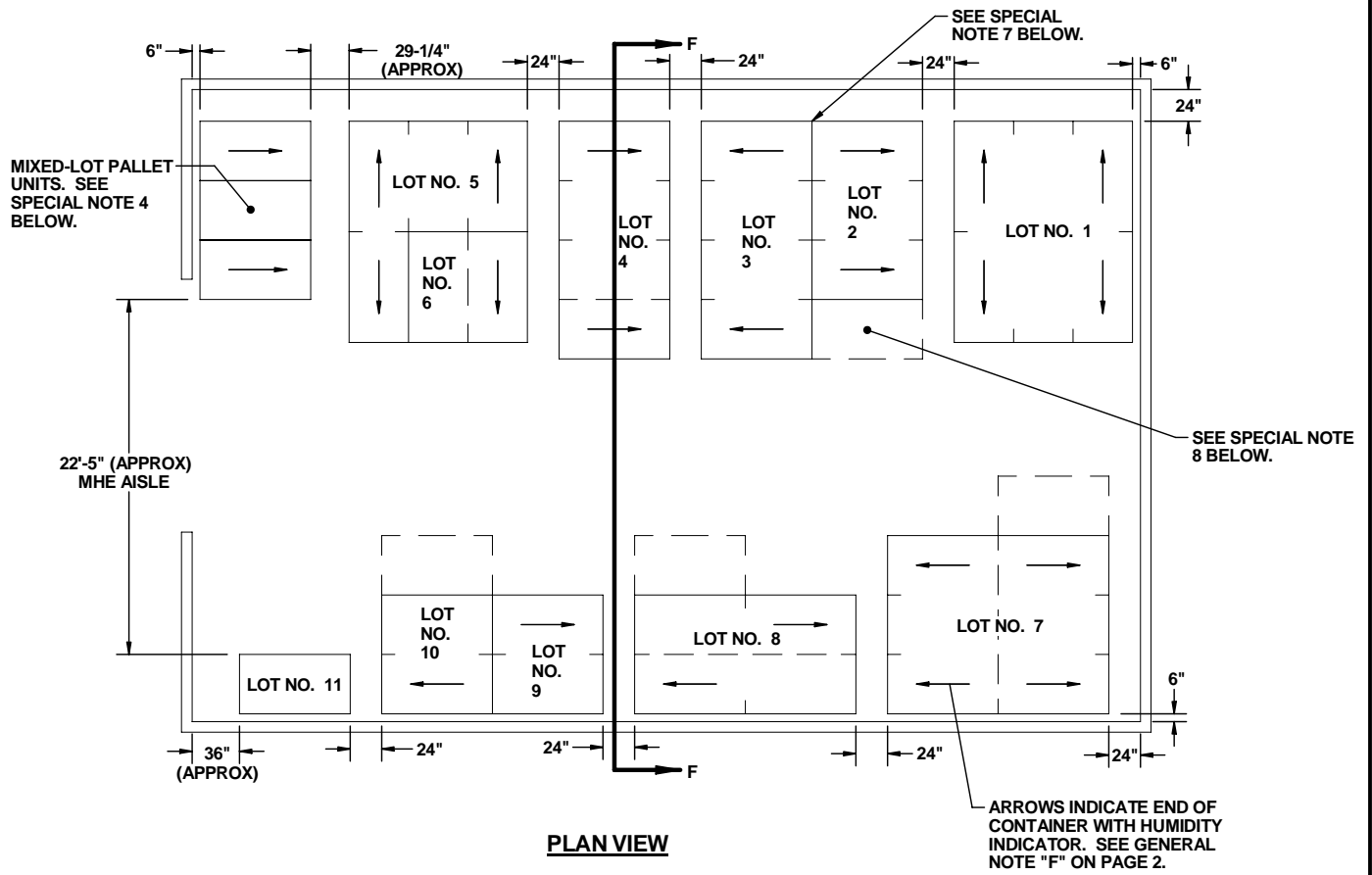


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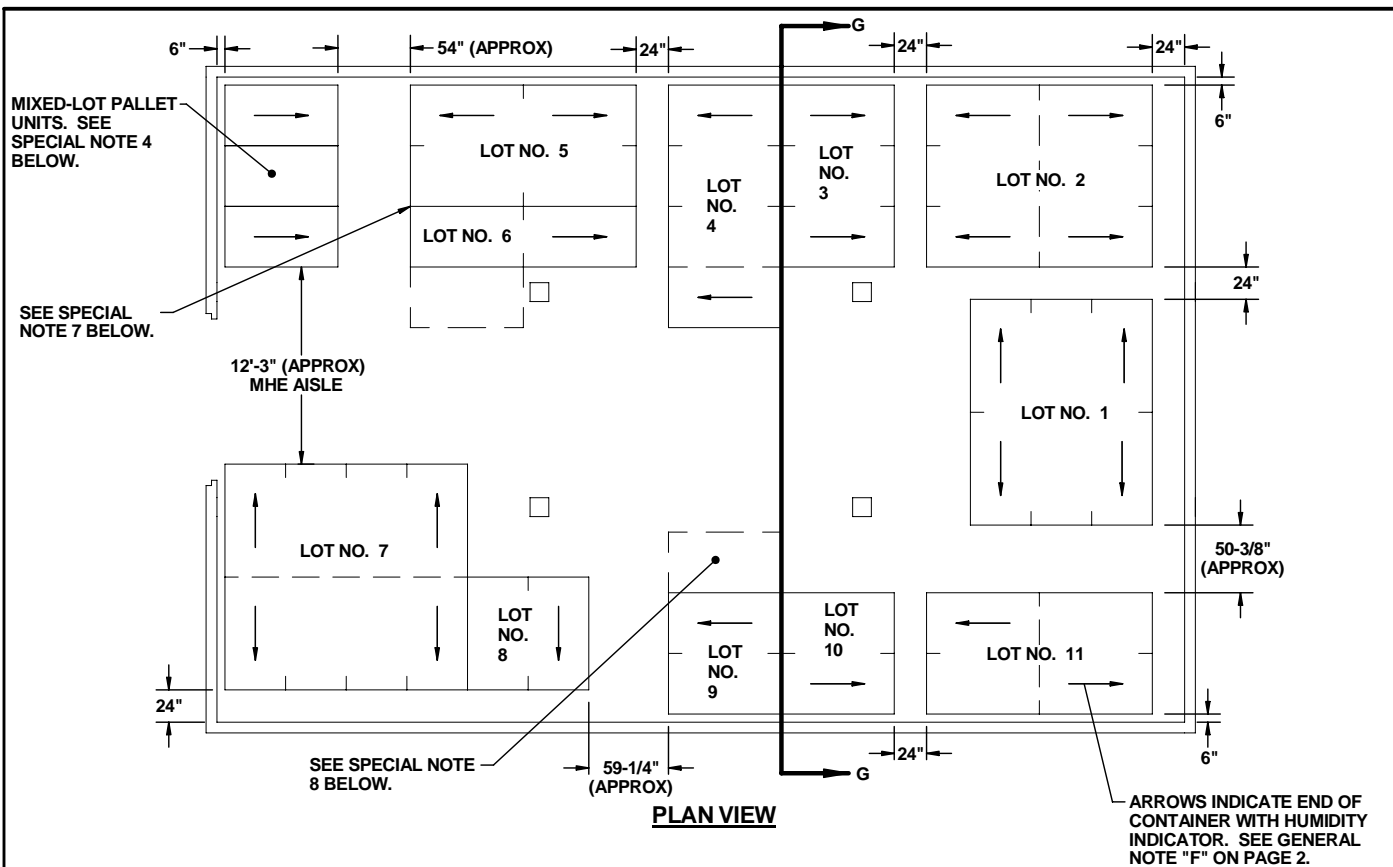
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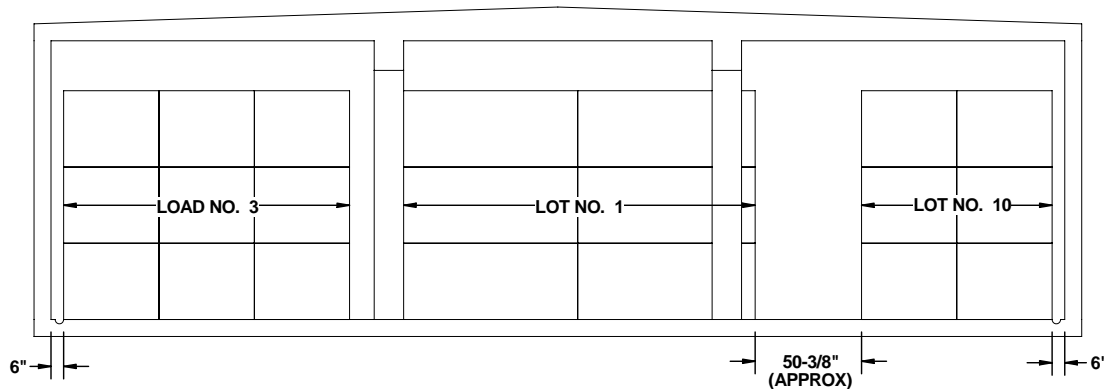
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TYPICAL MULTIPLE-LOT STORAGE IN A TYPE II BUNKER MAGAZINE



PLAN VIEW

ARROWS INDICATE END OF CONTAINER WITH HUMIDITY INDICATOR. SEE GENERAL NOTE "F" ON PAGE 2.



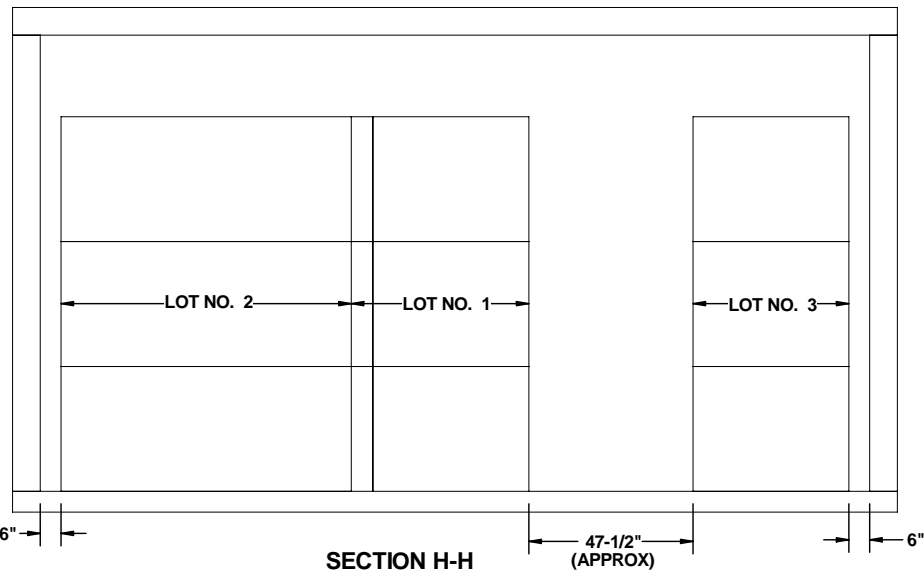
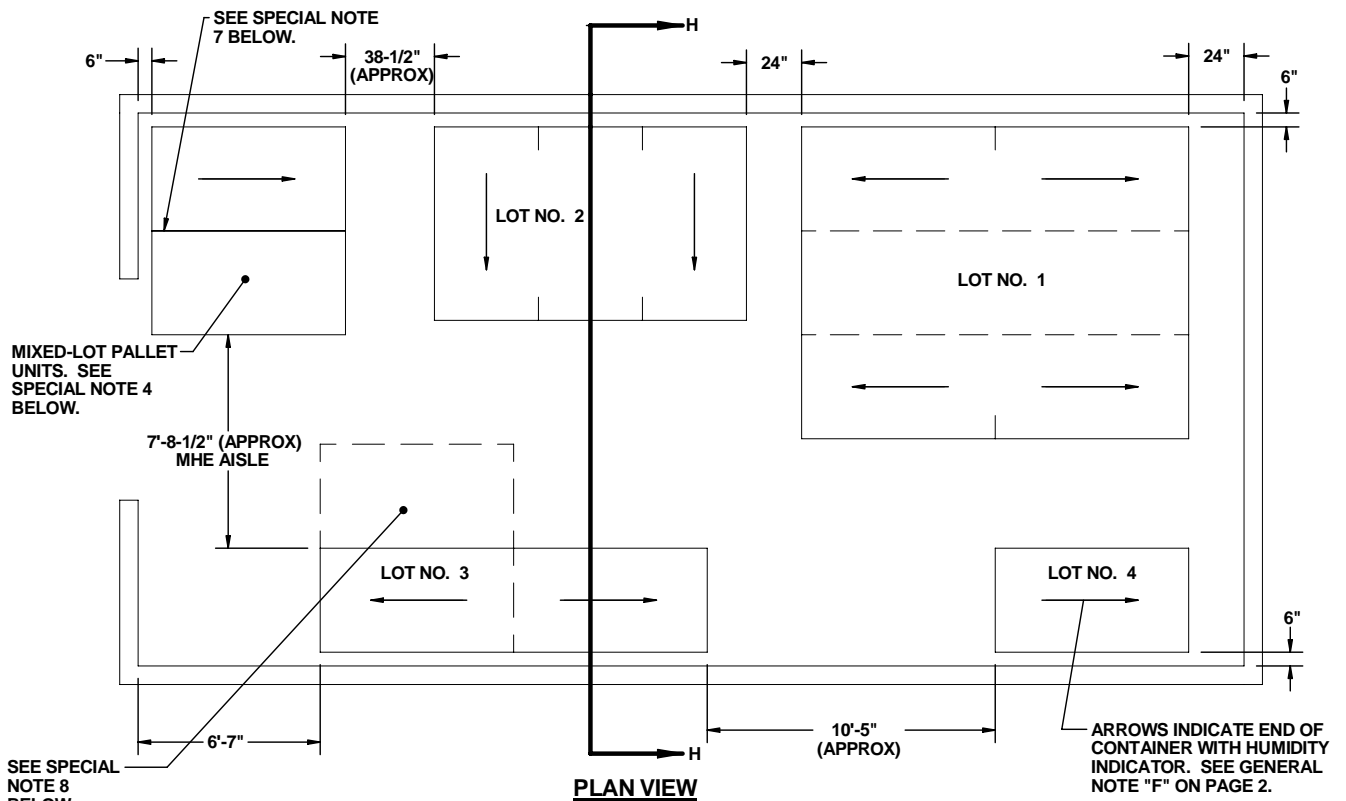
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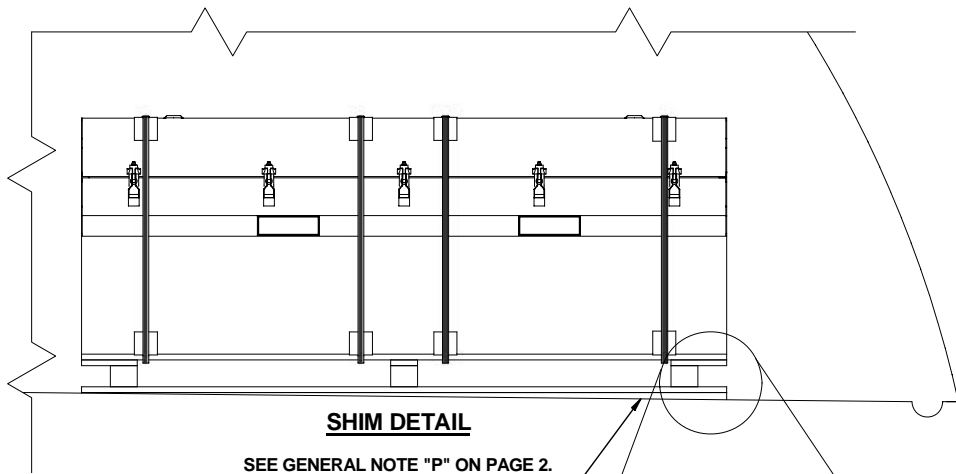
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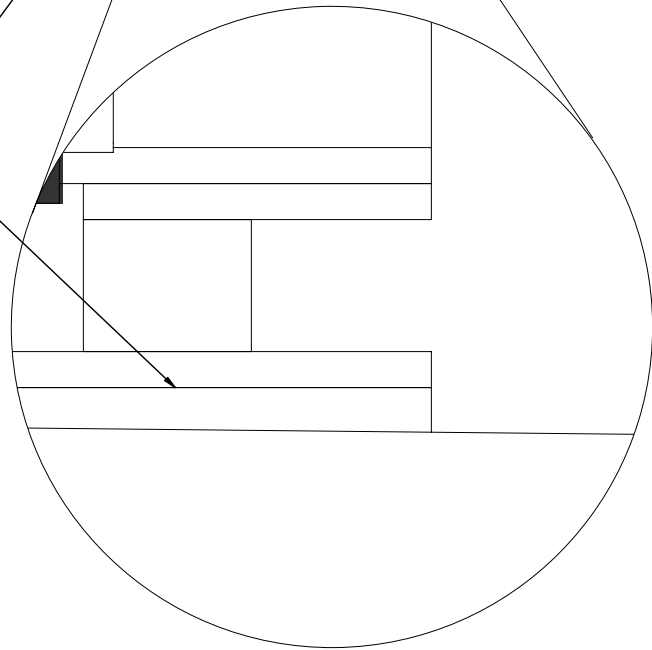
TYPICAL MULTIPLE-LOT STORAGE IN A TYPE IV BUNKER MAGAZINE



SHIM DETAIL

SEE GENERAL NOTE "P" ON PAGE 2.

SHIM (AS REQD TO PROVIDE A LEVEL BEARING SURFACE FOR THE PALLET SKIDS). POSITION UNDER PALLET SKIDS. SEE GENERAL NOTE "P" ON PAGE 7.



SHIM LOCATION DETAIL