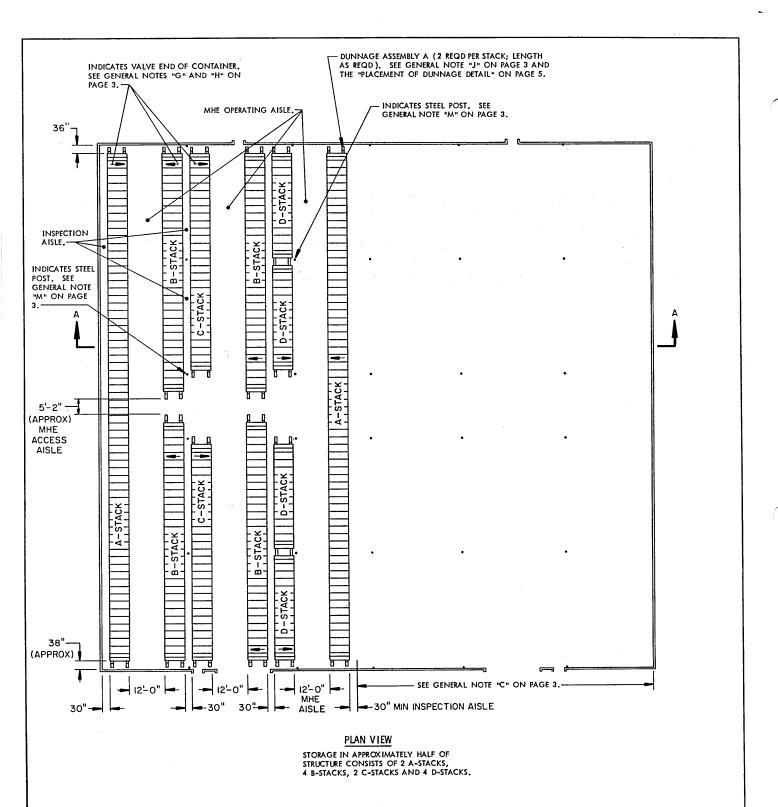
# STORAGE IN 187-8" L X 179-0" W BULK AGENT STORAGE BUILDING OF THE I-TON CONTAINER (FILLED)

REVISIONS	P.B.	AT MW			
	GRG R		Bust	•	
	APPROVED, U. S. ARBY ARRAMENT MATERIEL READINESS COMMAND				
	APPROVED BY ORDER OF COMMANDING BENERAL, U. S. ARMY MATERIEL DEVELOPMENT AND READINESS COMMAND (DARCOM)				
		U.S. ARMY DEFENSE AMMINITION CENTER AND SCHOOL			
	U. S. ARMY DARCOM DRAWING				
	MARCH 1981				
	CLASS	DIVISION	DRAWING	FILE	
	19	48	4521	CB IO MI3	

DO NOT SCALE



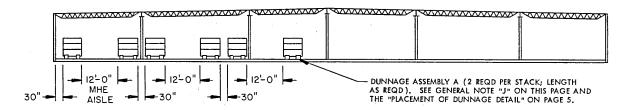
CONTAINERS PER STACK							
TYPE STACK	1ST LAYER	2ND LAYER	3RD LAYER	TOTAL			
Α	68	67	66	201			
В	32	31	30	93			
c	29	28	27	84			
D	14	13	12	39			

PAGE 2

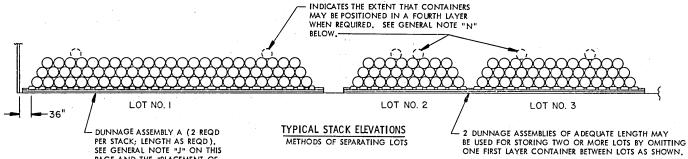
### STORAGE AS SHOWN

(APPROX HALF OF BULK AGENT STORAGE BUILDING )

ITEM 1-TON CONTAINER -----QUANTITY



### SECTION A-A



SEE GENERAL NOTE "J" ON THIS
PAGE AND THE "PLACEMENT OF DUNNAGE DETAIL" ON PAGE 5.

### (GENERAL NOTES CONTINUED)

- DUNNAGE LUMBER SPECIFIED THROUGHOUT THIS PROCEDURAL DRAWING IS OF NOMINAL SIZE. FOR EXAMPLE, 2" X 6" MATERIAL IS ACTUALLY 1-1/2" THICK BY 5-1/2" WIDE. ĸ.
- THE MAXIMUM FLOOR LOAD FOR A STRUCTURE, AS PRESCRIBED BY LOCAL STANDARDS, WILL NOT BE EXCEEDED. L.
- IF STEEL POSTS OR OTHER STRUCTURAL FEATURES OF THE BUILDING DO NOT PERMIT SUITABLE CLEARANCE FOR PLACEMENT, REMOVAL OR INSPECTION OF CONTAINERS, IT MAY BE NECESSARY TO OMIT CONTAINERS AT SUCH LOCATIONS. Μ.
- STORAGE WILL BE LIMITED TO THREE LAYERS HIGH. HOWEVER, TO PRECLUDE BUILDING SEVERAL PARTIAL STACKS TO HANDLE THE END OF A LOT, CONTAINERS CAN BE PLACED IN A FOURTH LAYER. NOTE: FOURTH LAYER CONTAINERS WILL NOT BE PLACED IN THE FIRST TWO STORAGE N. LOCATIONS AT BOTH ENDS OF A STACK AS IS TYPICALLY SHOWN IN THE ELEVATION VIEWS.
- ο. THE DEPICTED PROCEDURES MAY ALSO BE UTILIZED TO STORE 1-TON CONTAINERS IN OTHER APPROVED WAREHOUSE TYPE STRUCTURES. MINOR ADJUSTEMNTS MAY BE MADE TO FACILITATE STORAGE IN OTHER STRUCTURES, HOWEVER, THE BASIC PRINCIPLES AS DEPICTED HEREIN WILL BE FOLLOWED.

### **GENERAL NOTES**

- THIS DOCUMENT HAS BEEN PREPARED AND ISSUED IN ACCORDANCE WITH AR 740-1, AND AUGMENTS TM 743-200-1 (CHAPTER 5), TM 9-1300-206 (CHAPTER 4), AND TM 3-250.
- DETAILS OF CONTAINER:

DIMENSIONS ------81-1/2" LONG X 30-1/2" DIAMETER, GROSS WEIGHT-----3,500 POUNDS (APPROX ).

- C. THE STORAGE PROCEDURES WITHIN THIS DOCUMENT DEPICT STORAGE OF THE STORAGE PROCEDURES WITHIN THIS DOCUMENT DEPICT STORAGE OF 1-TON CONTAINERS IN A BULK AGENT STORAGE BUILDING 187'-8" LONG BY 179'-0" WIDE. THE BUILDING MUST COMPLY WITH REQUIREMENTS OF APPLICABLE SAFETY AND SECURITY REGULATIONS AND MUST BE APPROVED FOR THE STORAGE OF CHEMICAL ITEMS. THE STORAGE AS SHOWN IS BASED ON USE OF APPROXIMATELY ONE-HALF OF THE STRUCTURE. ADDITIONAL 1-TON CONTAINERS AND/OR OTHER COMPATIBLE ITEMS MAY BE STORED TO FULLY UTILIZE THE SPACE WITHIN THE STRUCTURE.
- THIS STORAGE PLAN IS BASED ON THE USE OF A 6000 POUND MINIMUM THIS STORAGE PLAN IS BASED ON THE USE OF A 6000 POUND MINIMUM CAPACITY FORKLIFT TRUCK OR A MOBILE WAREHOUSE TYPE CRANE, MHE WILL BE EQUIPPED WITH AN M1 LIFTING BEAM (NSN 1730-00-368-6195) WHICH PERMITS A CONTAINER TO BE REMOVED FROM ANY LOCATION WITHIN A STACK WITHOUT EXCESSIVE RELOCATION OF OTHER CONTAINERS, ATTACHMENT DEVICES USED FOR SECURING THE M1 LIFTING BEAM TOTHE FORKLIFT TRUCK OR MOBILE CRANE WILL BE OF A TYPE AND DESIGN AS APPROVED BY THE DEFENSE AMMUNITION CENTER AND SCHOOL AND THE FIELD SAFETY ACTIVITY OF THE MATERIEL DEVELOPMENT AND READINESS COMMAND (DARCOM).
- AISLE DIMENSIONS SHOWN IN THIS DRAWING MAY BE ADJUSTED TO SUIT LOCAL CONDITIONS AND/OR MATERIALS HANDLING EQUIPMENT; HOWEVER, BOTH ENDS OF EACH CONTAINER MUST BE ACCESSIBLE BY NOT LESS THAN A 30" WIDE AISLE TO PERMIT ADEQUATE INSPECTION.
- STORED CONTAINERS MUST NOT CONTACT THE WALLS OF THE BUILDING.
- THE VALVE END OF ALL CONTAINERS WILL BE ORIENTED TO FACE THE MHE OPERATING AISLES. SEE THE STORAGE VIEWS FOR ADDITIONAL GUIDANCE ON CONTAINER ORIENTATION.
- VALVES ON EACH CONTAINER WILL BE POSITIONED IN THE PROPER VERTICAL OR HORIZONTAL ALIGNMENT, AS REQUIRED FOR THE SPECIFIC CHEMICAL AGENTS IN THE CONTAINER.
- THE PROCEDURES AS SHOWN SPECIFY "DUNNAGE ASSEMBLY A" TO SUPPORT BOTTOM LAYER OF CONTAINERS. DUNNAGE ASSEMBLIES "A", "B", AND/OR "C" MAY BE USED, AS DESIRED. SEE THE APPROPRIATE DETAILS ON PAGES 4 THROUGH 8.

(CONTINUED AT LEFT)

# MATERIAL SPECIFICATIONS

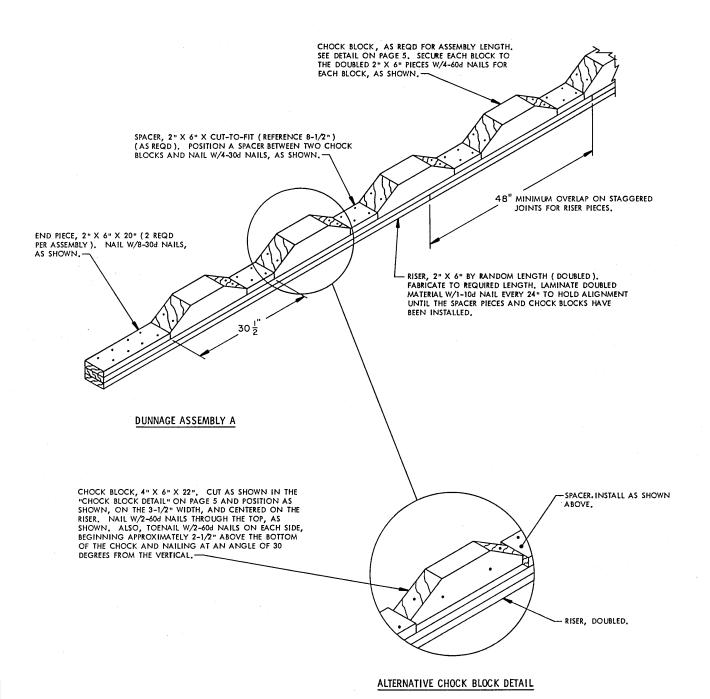
LUMBER-------- : SEE TM 743-200-1, DUNNAGE LUMBER, FED SPEC MM-L-751.

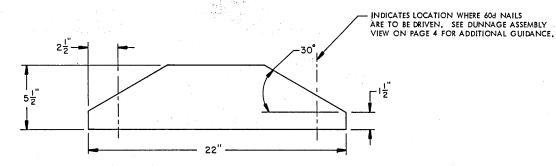
NAILS ---- : COMMON, FED SPEC FF-N-105.

STRUCTURAL STEEL----- : ROLLED SHAPES, PLATE AND BAR; FED SPEC QQ-S-741D.

BOLTS -----: SAE GRADE 1 CARBON STEEL.

PAGE 3





# CHOCK BLOCK

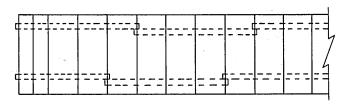
6" X 6" MATERIAL

USE 4" X 6" MATERIAL FOR ALTERNATIVE.

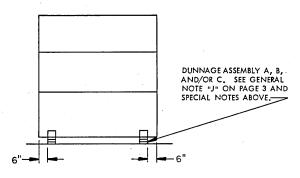
ALTHOUGH THE SPECIFICATIONS FOR BOTH CHOCK BLOCKS (6" X 6" AND 4" X 6" ) ARE BASED ON THE USE OF NOMINAL SIZED LUMBER, FULL SIZE LUMBER MAY BE USED.

## SPECIAL NOTES:

- WHEN USING DUNNAGE ASSEMBLY A, THE ASSEMBLY SHALL BE CONSTRUCTED OF THE LENGTH AS REQUIRED TO HOLD THE NUMBER OF CONTAINERS IN THE BOTTOM LAYER OF A STACK.
- 2. WHEN USING DUNNAGE ASSEMBLY B AND/OR C, AS DETAILED ON PAGES 6 THRU B, THE LONGITUDINAL LAP JOINTS OF DUNNAGE ASSEMBLIES ON ONE SIDE OF A STACK OF CONTAINERS MUST BE STAGGERED FROM THE LAP JOINTS ON THE OTHER SIDE OF THE SAME STACK OF CONTAINERS. SEE THE PARTIAL PLAN VIEW ON THE RIGHT OF THIS PAGE FOR ADDITIONAL GUIDANCE RELATIVE TO THE POSITIONING OF DUNNAGE ASSEMBLIES B AND/OR C.



PARTIAL PLAN VIEW
SEE SPECIAL NOTE 2 AT LEFT.



PLACEMENT OF DUNNAGE DETAIL

PAGE 5

