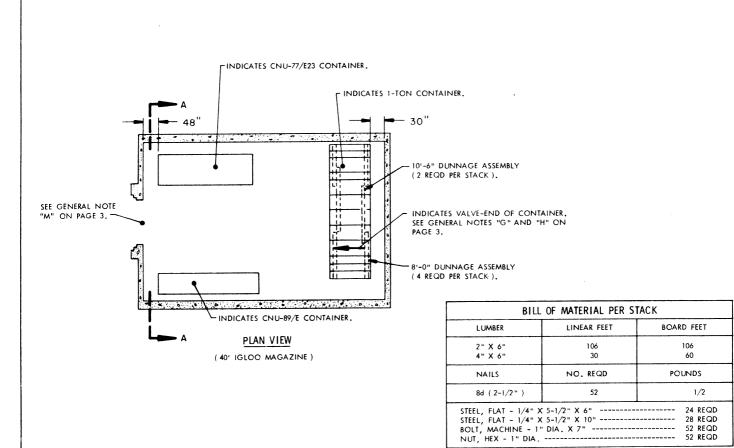
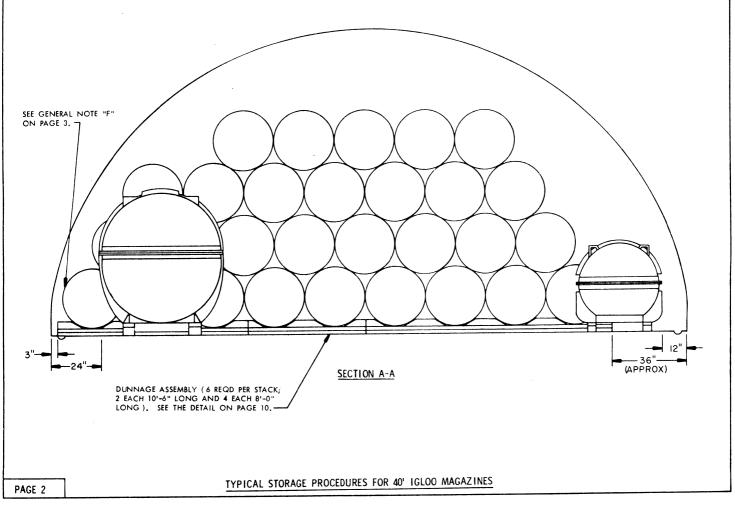
STORAGE IN 40, 60' & 80' IGLOO AND 80' STRADLEY MAGAZINES OF THE I-TON CONTAINER (FILLED), AND THE TMU-28/B SPRAY TANK PACKED IN THE CNU-77/E23 AND/OR CNU-89/E CONTAINER

REVISIONS	DRAFTSMAN	A JN	W/47W	
	APPROVED	RSH Co	HORE OFFICE	
	1			
	1 %	HBO	nton	
	U. S. ARMY	MATERIEL COM	MAND	ERAL.
	1 0	H Eh	mgu y	MC AMMO CENTER
	U.S. /	ARMY MA		OMMAND
	SEPTEMBER 1975			
	CLASS	DIVISION	DRAWING	FILE
	10	40	4500	СВ
	19	48	4506	1-14M4

DO NOT SCALE





STORAGE AS SHOWN 40' IGLOO

(GENERAL NOTES CONTINUED)

ISOMETRIC VIEW
(40' IGLOO MAGAZINE)

- G. THE VALVE END OF 1-TON CONTAINERS WILL BE ORIENTED IN THE SAME DIRECTION WITHIN A STACK. ALSO, EACH STACK WILL BE ORIENTED SO THAT THE VALVE END OF CONTAINERS WILL BE ONLY ON ONE SIDE OF AN ACCESS AISLE. THE BASE END OF CONTAINERS IN AN ADJACENT STACK MUST FACE THE SAME AISLE AS THE VALVE END OF CONTAINERS IN THE PRECEDING STACK. SEE THE STORAGE VIEWS FOR ADDITIONAL GUIDANCE ON CONTAINER ORIENTATION.
- H. VALVES ON EACH 1-TON CONTAINER WILL BE POSITIONED IN THE PROPER VERTICAL OR HORIZONTAL ALIGNMENT, AS REQUIRED FOR THE SPECIFIC CHEMICAL AGENTS IN THE CONTAINER.
- J. THE PROCEDURES AS SHOWN SPECIFY WOODEN DUNNAGE TO SUPPORT THE BOTTOM LAYER OF 1-TON CONTAINERS. IF DESIRED, STEEL DUNNAGE MAY BE USED IN LIEU OF THE WOODEN DUNNAGE. SEE THE "ALTERNATIVE DUNNAGE ASSEMBLY" DETAILS ON PAGE 12.
- K. THE MAGAZINE MUST COMPLY WITH ALL REQUIREMENTS AND BE APPROVED FOR THE STORAGE OF CHEMICAL ITEMS.
- L. THE STORAGE PROCEDURES DEPICTED HEREIN FOR 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 DEPICT-ED HEREIN WILL BE COMPLIED WITH.
- M. STORAGE OF THE CNU-77/E23 CONTAINER REQUIRES UTILIZATION OF A MAGAZINE WHICH HAS DOUBLE DOORS, OR HAS DOORS WHICH ARE OTHERWISE ADEQUATELY WIDE TO PERMIT PASSAGE OF THE 62" WIDE CONTAINER.

(CONTINUED ABOVE)

MATERIAL SPECIFICATIONS

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

NAILS -----:: COMMON, CEMENT COATED OR CHEMICALLY ETCHED, FED SPEC FF-N-105.
ALT: ANNULAR-RING TYPE NAIL OF THE SAME SIZE.

STRUCTURAL STEEL -: ROLLED SHAPES, PLATE, AND BAR, FED SPEC QQ-S-74ID.

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

A. 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.

GENERAL NOTES

- B. DETAILS:
 - 1. CNU-77/E23 CONTAINER:

DIMENSIONS ---- 193" LONG X 62" WIDE X 73" HIGH. WEIGHT ----- 6,100 POUNDS (APPROX).

2. CNU-89/E CONTAINER:

DIMENSIONS ---- 204" LONG X 43-3/8" WIDE X 45-1/2" HIGH. WEIGHT ------ 6,000 POUNDS (APPROX).

3. 1-TON CONTAINER:

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

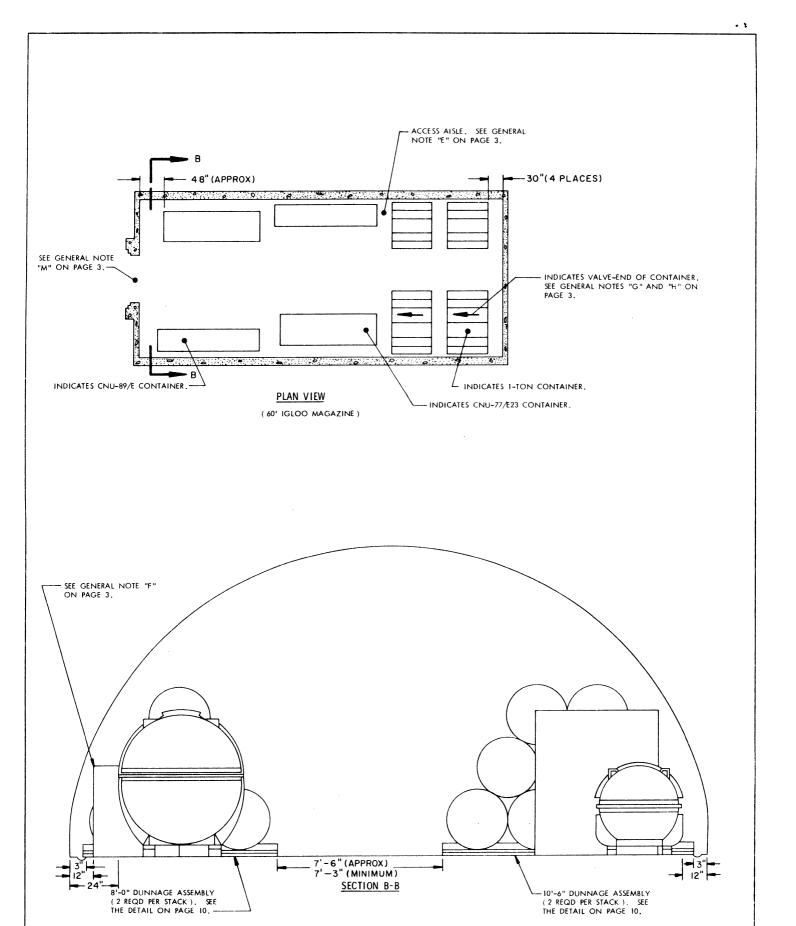
- C. STORAGE PLANS ARE BASED ON USE OF A 6,000 POUND CAPACITY FORKLIFT WITH ADEQUATE TINE EXTENSIONS OR A BOOM FOR MOUNTING A GRAB BEAM WHICH WILL PERMIT END-HANDLING OF 1-TON CONTAINERS. END-HANDLING OF CONTAINERS WILL PERMIT STACKING OF 4 LAYERS; HOWEVER, STACKING ACCOMPLISHED BY SIDE HANDLING OF CONTAINERS IS LIMITED TO A MAXIMUM OF 3 LAYERS. THE LOAD ON THE FORKLIFT WILL BE AT A 40 TO 45 INCH LOAD CENTER. IF ONLY 4,000 POUND CAPACITY FORKLIFTS ARE AVAILABLE, THE 1-TON CONTAINERS MUST BE STACKED AS SHOWN IN THE PROCEDURES ON PAGES 4 AND 5, AND STORAGE WILL BE LIMITED TO A 2-LAYER STACK. OTHER MATERIALS HANDLING EQUIPMENT MAY BE UTILIZED IF AVAILABLE AND OF SUFFICIENT CAPACITY TO HANDLE THE CONTAINERS IN AN APPROVED MANNER.
- D. IF THE FORKLIFT TO BE USED IS EQUIPPED WITH A PACKAGE GUARD AND/OR AN OVERHEAD GUARD WHICH INTERFERES WITH MANEUVERING THE FORKLIFT WITHIN AVAILABLE OPERATING AISLES, THE GUARD(S) MAY BE MODIFIED IN ACCORDANCE WITH APPLICABLE REGULATIONS
- ACCORDANCE WITH APPLICABLE REGULATIONS.

 E. AISLE DIMENSIONS SHOWN IN THIS DRAWING MAY BE ADJUSTED TO SUIT LOCAL CONDITIONS AND/OR AVAILABLE MATERIALS HANDLING EQUIPMENT; HOWEVER, THIRTY-INCH (30") MINIMUM ACCESS AISLES WILL BE PROVIDED, AS SHOWN, UNLESS OTHERWISE INDICATED, TO FACILITATE INSPECTION OF BOTH ENDS OF EACH CONTAINER.
- F. STORED CONTAINERS MUST NOT CONTACT THE WALL OF A MAGAZINE. TO PROVIDE FOR THIS MANDATORY CLEARANCE REQUIREMENT, UNITS MAY BE ELIMINATED FROM THE DEPICTED STORAGE PATTERN AS NECESSARY.

(CONTINUED AT LEFT)

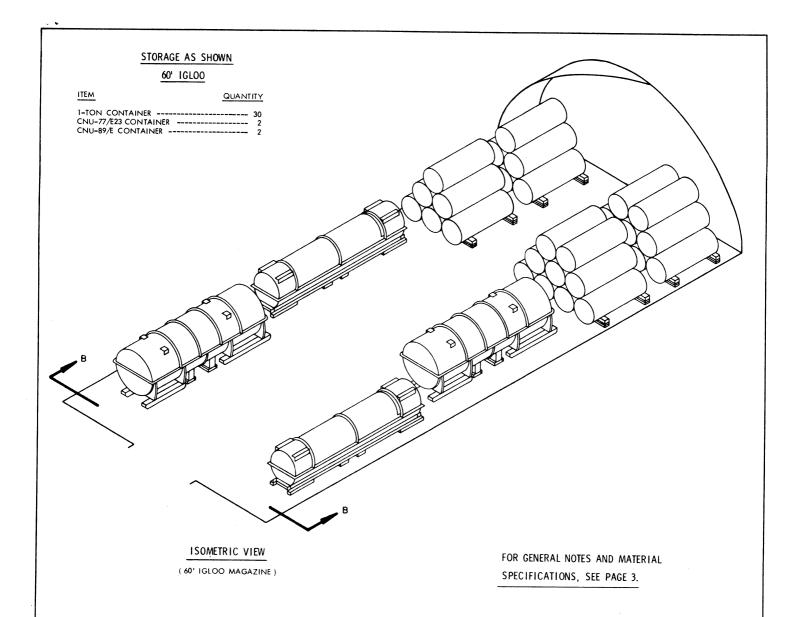
TYPICAL STORAGE PROCEDURES FOR 40' IGLOO MAGAZINES

PAGE 3



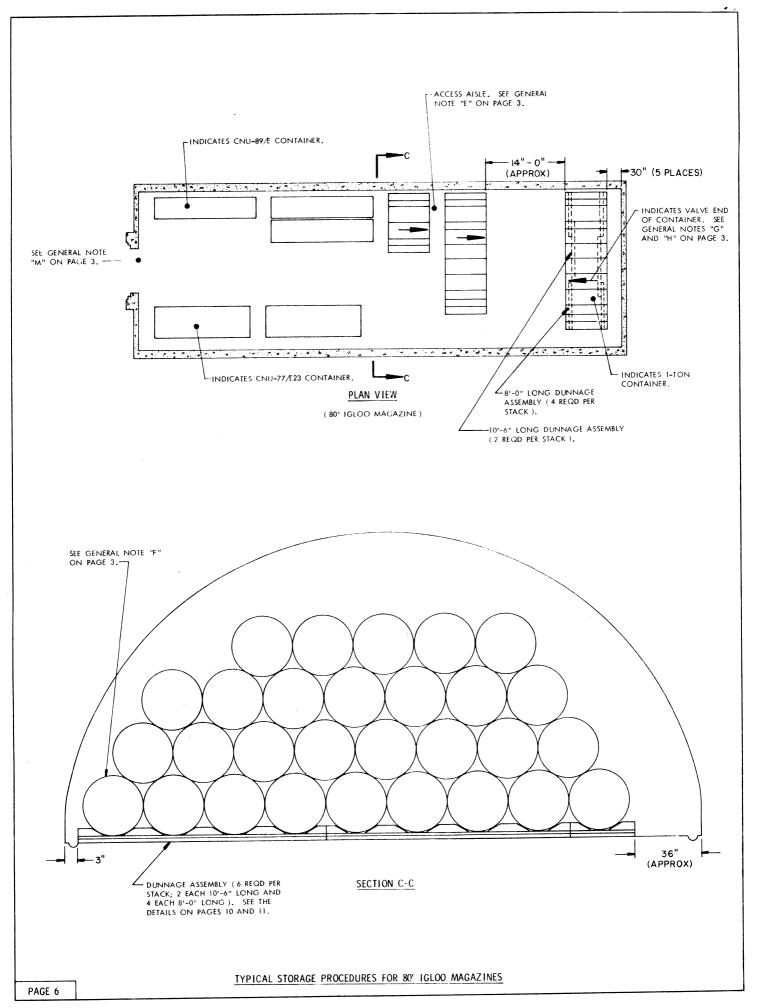
TYPICAL STORAGE PROCEDURES FOR 60' IGLOO MAGAZINES

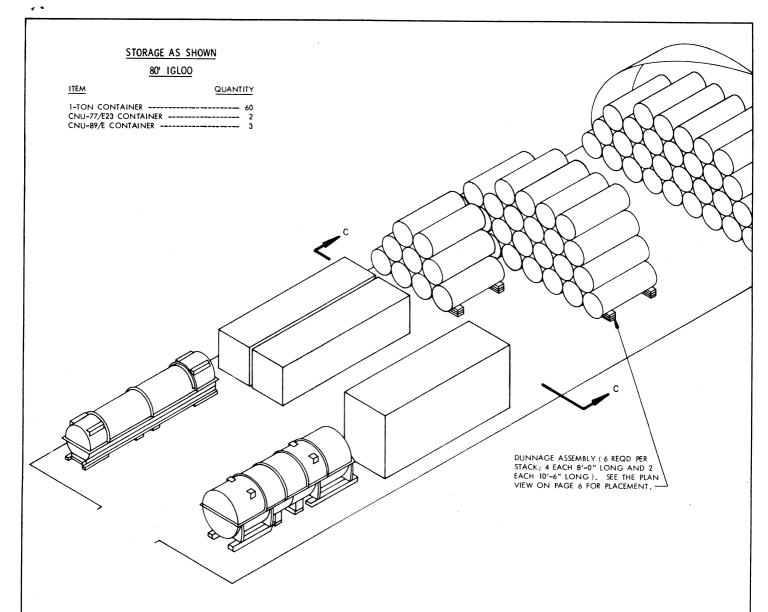
PAGE 4



E	BILL OF MATERIAL PER	RSTACK	
LUMBER	LINEAR FEET	BOARD FEET	
2" X 6" 4" X 6"	74 21	74 42	
NAIL S	NO. REQD	POUNDS	
8d (2-1/2")	38	1/2	
BOLT, MACHINE, 1"	5-1/2" X 6" 5-1/2" X 10" DIA. X 7"	20 REQD	

TYPICAL STORAGE PROCEDURES FOR 60' IGLOO MAGAZINES





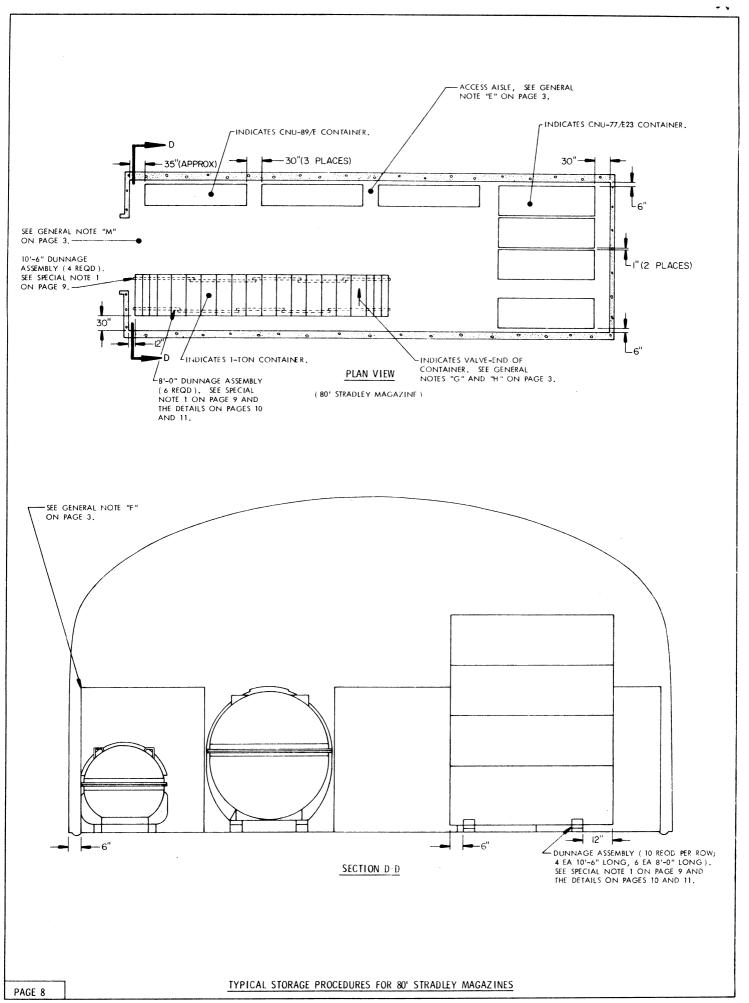
ISOMETRIC VIEW

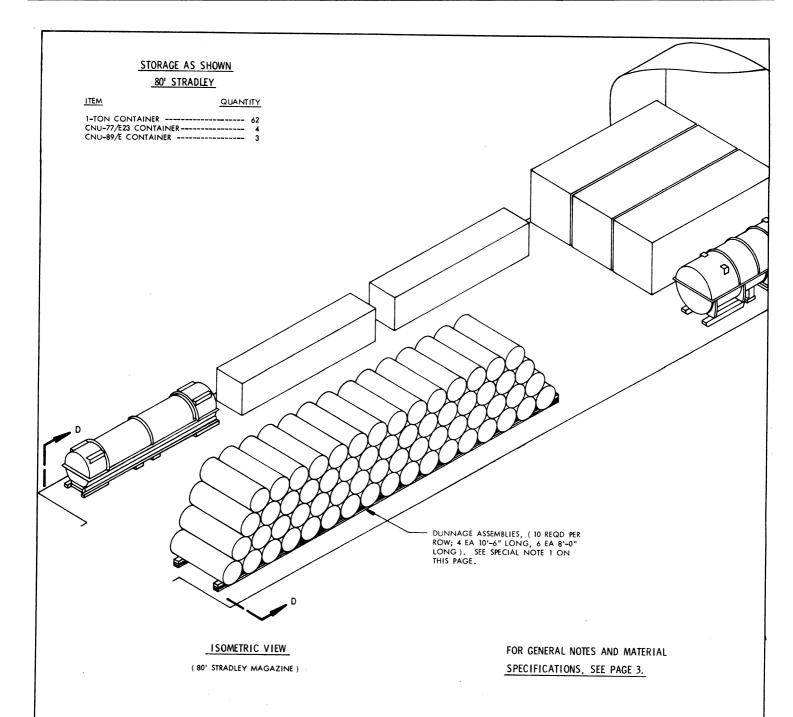
(80' IGLOO MAGAZINE)

FOR GENERAL NOTES AND MATERIAL SPECIFICATIONS, SEE PAGE 3.

BILL OF MATERIAL PER STACK				
LUMBER	LINEAR FEET	BOARD FEET		
2" X 6" 4" X 6"	106 30	106 60		
NAILS	NO. REQD	POUNDS		
8d (2-1/2")	52	1/2		
STEEL, FLAT, 1/4" X 5-1/2" X 6" 24 REQD STEEL, FLAT, 1/4" X 5-1/2" X 10" 28 REQD BOLT, MACHINE, 1" DIA. X 7" 52 REQD NUT, HEX - 1" DIA. 52 REQD				

TYPICAL STORAGE PROCEDURES FOR 80' IGLOO MAGAZINES



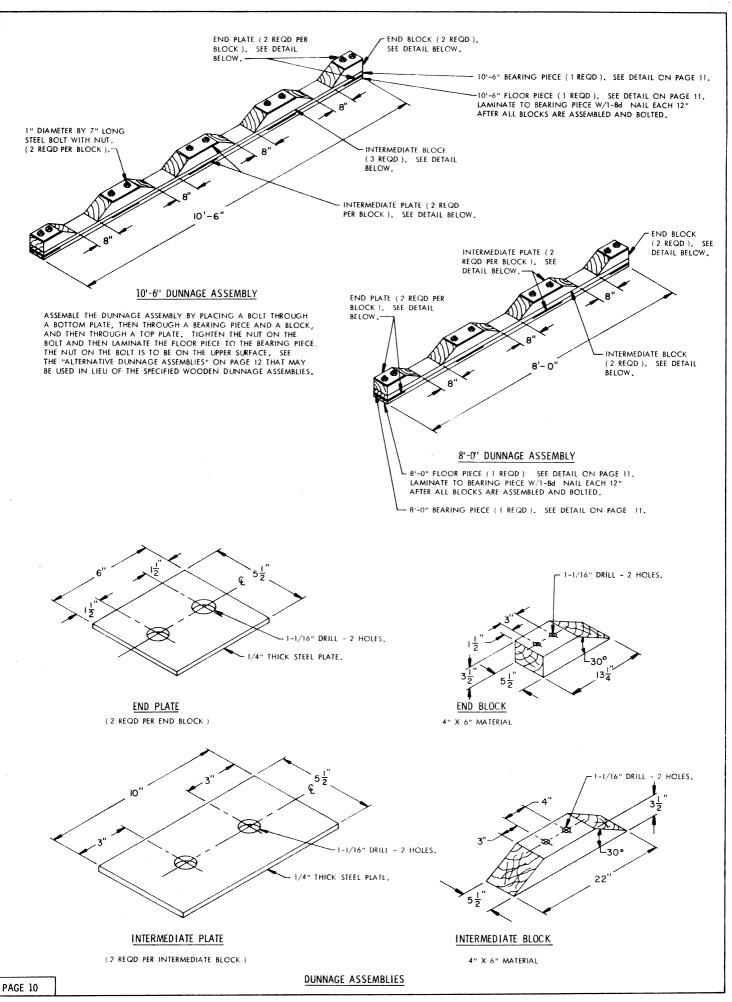


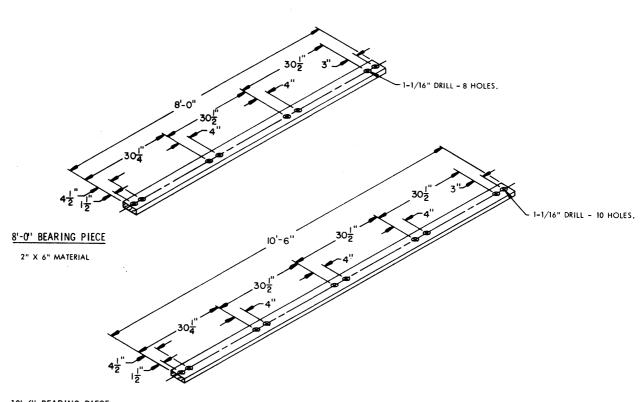
B	ILL OF MATERIAL PER RO	W	
LUMBER	LINEAR FEET	BOARD FEET	
2" X 6" 4" X 6"	180 52	180 104	
NAILS	NO. REQD	POUNDS	
8d (2-1/2")	92	1	
STEEL, FLAT, 1/4" STEEL, FLAT, 1/4" BOLT, MACHINE - 1 NUT, HEX - 1" DIA	X 5-1/2" X 10" I" DIA, X 7"	40 REQD 48 REQD 88 REQD	

SPECIAL NOTE:

1. LONGITUDINAL LAP JOINTS OF DUNNAGE ASSEMBLIES ON THE OPERATING AISLE SIDE OF A ROW OF CONTAINERS MUST BE STAGGERED FROM THE LAP JOINTS ON THE WALL SIDE OF THE ROW AS SHOWN IN THE PLAN VIEW ON PAGE 8.

TYPICAL STORAGE PROCEDURES FOR 80' STRADLEY MAGAZINES





10'-6" BEARING PIECE 2" X 6" MATERIAL

