

PURCHASE SPECIFICATION
PRE-ENGINEERED/PRE-FABRICATED
STEEL ARMORY

1. SCOPE

1.1 This specification applies to the manufacture of pre-engineered/pre-fabricated steel armories for storage of small arms and ready-for-issue small arms ammunition. Armories are to be constructed in accordance with Bureau of Alcohol, Tobacco and Firearms Regulation (27CFR Part 55) for Type I and Type II bullet-resistant containers with modifications to meet U.S. Navy AA&E physical security requirements (OPNAVINST 5530.13), U.S. Navy safety requirements (OP5) and requirements herein.

2. APPLICABLE DOCUMENTS

U.S. Code of Federal Regulations Title 27, Part 55.2, Subpart K - Storage of Explosives Materials

(Application for copies should be addressed to the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.)

Naval Ordnance Systems Command OP5 - Ammunition Ashore, Handling, Stowing and Shipping

Chief of Naval Operations Instruction OPNAVINST 5530.13 - Department of the Navy Physical Security Instruction for Sensitive Conventional Arms, Ammunition and Explosives (AA&E)

(Application for copies should be addressed to the Naval Publications and Forms Center, 5801 Tabor Avenue, Philadelphia, Pennsylvania 19120.)

American Society for Testing and Materials (ASTM)
ASTM A-36 - Standard Specification for Structural Steel

Steel Structures Painting Council (SSPC). Steel Structures Painting Manual, Volumes I and II.

(Application for copies of ASTM publication should be addressed to the American Society for Testing and Materials, 1916 Race Street, Philadelphia, Pennsylvania 14103.)

STANDARDS

Military

MIL-STD-731 - Quality of Wood Members for Containers and Pallets

MIL-P-15024 - Plates, Tags and Bands for
Identification of Equipment

(Application for copies should be addressed to the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.)

2.1 Order of precedence. In the event of a conflict between the text of this specification and references cited herein, the text of this specification shall take precedence.

3. REQUIREMENTS

3.1 Description. Pre-fabricated steel, woodlined armories in this specification shall be constructed of at least 1/4 inch steel exterior and woodlined with at least 2 inches of hardwood. Armories shall be constructed on skids/runners, and affixed with lift straps/hooks/eyelets for handling and transportation. Armories shall have a protective exterior coating capable of resisting environmental elements and preventing oxidation/deterioration of the armory. Armory shall also meet all U.S. Navy physical security regulations (OPNAVINST 5530.13) and U.S. Navy safety (OP5) regulations for storage of small arms and ready-for-issue small arms ammunition.

3.2 Design and construction. Armories shall be constructed employing usual and customary design/manufacturing processes. Material shall be as specified herein.

3.3 Materials. Materials not definitely specified shall be of the type and quality necessary for the end item to perform its intended function as described in 3.1, and of the quality normally used in good commercial practice. Request for substitutes or equivalencies shall be submitted to Crane Division, Naval Surface Warfare Center (Code 7095).

3.3.1 Steel exterior shell. All exterior surfaces of the pre-fabricated steel armory shall be manufactured of at least 1/4 inch carbon steel, meeting or exceeding the specifications of ASTM A-36. All exterior joints, seams and other openings shall be continuously welded to provide strength, penetration resistance, and weather tight integrity equivalent to the steel plate itself.

3.3.1.1 Structural stiffeners. Armories with a width exceeding eight (8) feet shall have structural stiffeners as an integral part of the roof construction. Stiffeners shall be of steel construction and shall be of adequate size and spacing to provide for load distribution and structural support during lifting and moving operations.

3.3.1.2 Door drip molding. All doors shall have a drip molding installed above each door. Molding shall be sized and

designed to totally protect the door/steel shell interface from environmental exposure during inclement weather.

3.3.1.3 Water trap. All doors shall have a water trap installed below the flooring (see Attachment (12)). Steel strip shall be fully welded to steel shell (floor) and steel door frame to provide a water-tight reservoir to trap rain water entering armory around door edges. Drain holes shall be drilled through steel shell to allow for drainage. Steel strip shall be a maximum 2 inch height to allow for placement of finish layer of flooring over strip so as to meet non-sparking internal requirement. Reservoir shall extend behind the front face of the wood door jam as a minimum.

3.3.2 Insulation. All interior surfaces of the armory shell shall be sheathed with rigid insulation board prior to installation of wood lining. Insulation board shall have a maximum thickness of 5/8 inch and shall provide, as a minimum, an insulation value of R4.0. Insulation shall be installed in accordance with the manufacturer's standard practice to ensure maximum insulating efficiency.

3.3.3 Wood lining. For purposes of this specification, hardwood is defined as one of the species listed as Group III and IV woods of MIL-STD-731 Section 4.1. The interior of the armory (ceiling, walls, and floor) shall be lined with materials in accordance with 3.3.3.1.

3.3.3.1 At least 2 inches of Group III or IV hardwoods listed in MIL-STD-731 Section 4.1.

3.3.3.1.1 Group IV - Hardwood species:

Beech	Oak
Birch	Pecan
Hackberry	Rock Elm
Hard Maple	White Ash
Hickory	

Group III - Hardwoods of medium density:

Ash (except White Ash)	Soft Elm
Soft Maple	Sycamore
California Black Oak	Sweetgum
California Maple	Tupelo

3.3.3.2 Wood members shall be selected to meet or exceed quality requirements for non-structural members of MIL-STD-731, Table II, and shall not exceed defect limitations of paragraphs 5.3 and 5.4 of MIL-STD-731.

3.3.3.3 Wood lining shall be installed as specified in paragraphs 3.3.3.3.1 and 3.3.3.3.2. The first layer shall be affixed to the steel shell (see Attachment 1). Care shall be taken to ensure that the wood lining cannot separate from the steel exterior due to warpage or shrinkage over time. The second layer shall be secured to the first layer. Adequate spacing shall be provided to prevent buckling of the floor or side walls due to moisture infiltration.

3.3.3.3.1 Wood lining shall be installed using layers of 1 inch maximum stock. Both layers shall be installed in the vertical orientation and the second layer shall be half-lapped with respect to the first layer. Wall/ceiling interface shall be constructed to assure ceiling is interlocked/supported by the side walls.

3.3.3.3.2 A finish layer of 5/8 inch plywood shall be installed on walls/ceiling/floor to provide a smooth, continuous interior surface.

3.3.3.4 Ferrous metal, nails and other spark producing materials in the floor, side walls, ceiling and door, which might be exposed to contact with explosive materials, must be blind nailed, countersunk, and covered with a non-sparking material.

3.3.4 Doors. Armory doors shall be designed and constructed to swing outward and include door jambs (½ inch minimum) (see Attachment 10), to provide positive door location and weather tight integrity. Armory door(s) shall be constructed with 3/8" x 2" HR flat door stiffeners, meeting the specification of ASTM A-36. The stiffener shall be welded to the interior perimeter of the door along the top and both vertical sides and shall be orientated so that the 2" dimension is perpendicular to the door face. Armory doors shall be sized to fit an opening 35 inches minimum in width and seven feet minimum height. Doors shall incorporate the wood lining and insulation as required by sections 3.3.3 and 3.3.2 respectively. Wood lining shall be installed in such a manner to prevent it from pulling away from the metal exterior during prolonged use or as a result from climatic extremes.

3.3.4.1 Door hinge. All armory door hinges shall be provided with grease fitting(s) capable of providing lubrication to the entire active interface between the hinge pin and the hinge leafs.

3.3.4.2 Security hinge interlock. All armory doors, with exposed hinges, shall be provided with supplemental brackets, pins or other interlock devices, not accessible from the exterior of the armory when the door(s) is/are closed and in a secure position, to prevent opening of the door by removal of the hinge pin or destruction of the exposed portion of the hinge. The devices used will provide sufficient positive engagement and resistance to shearing forces to prevent opening of the door at the hinge side

(edge) of the door. Typical designs and materials for this interlock are provided in Attachments 2 and 3. Equivalent systems/approaches must meet or exceed requirements of OPNAVINST 5530.13 and provide the same degree of protection as those identified in Attachments 2 and 3.

3.3.4.3 High security hasp. All primary entrance doors shall be secured with an approved U.S. Navy hasp and lock system (see Attachments 4, 5 and 6). High security hasp(s) shall be installed in accordance with installation drawings provided as appropriate (see Attachments 7 and 8). U.S. Navy approved high security hasps are available from the national stock system (see Attachment 11) or the vendors listed in Attachment 13.

3.3.4.3.1
~~DELETED~~

3.3.4.4 Door pull. All primary entrance doors shall have an exterior U-shaped door pull constructed of 5/8 inch diameter steel or 1 " x 1/4" flat steel, 9 inch overall length and 2 inch projection minimum and installed in accordance with standard manufacturer's practice.

3.3.4.5 Door catch. All external armory doors shall be equipped with a means for securing the door in the open position during normal operations.

3.3.4.6 Day use/issue doors. Each armory entrance/exit shall be fitted with an inward swinging, interior door for daily operation and issue of weapons. Doors shall be a commercial quality steel Dutch style door (split door) with an issue port in the top half. The door shall be equipped with a latch for securing the door sections, and shall meet the requirements of attachment 16.

3.3.5 Identification plate. Each armory shall have at least 1 manufacturer identification plate fabricated in accordance with MIL-P-15024 Type B or Type C (aluminum alloy) Style IV QQA-250/1 or QQA-250/8 and shall contain the information specified (see Attachment 9). The identification plate shall be securely mounted to the interior side of the armory door and affixed with aluminum fasteners.

3.3.6 Surface Preparation.

3.3.6.1 Interior surfaces. Armory interior surfaces shall be free of rust, scale and other foreign substances immediately prior to painting.

3.3.6.2 Exterior surfaces. Commercial blasting (class 3) shall be used to clean all exterior surfaces. Maximum height of cleaned surface profile shall not exceed 2.0 mils. All surfaces shall be free of rust, scale and other foreign substances immediately prior to painting. Reference SSPC-SP6 of Steel Structures Painting Manual, Volume II.

3.3.7 Painting.

3.3.7.1 Interior prime coat. All interior metal surfaces shall be painted with one coat of waterborne acrylic primer (Glidden # 8231-04 green, or equivalent). Dry film thickness shall be 3 mils minimum.

3.3.7.2 Interior finish coat. All interior finish surfaces shall be painted two coats of latex semi-gloss paint. Finish coats shall be white in color.

3.3.7.3 Exterior prime coat. All exterior metal surfaces shall be painted with one coat each of waterborne acrylic primer (Glidden # 8231-04 green, or equivalent) and waterborne acrylic midcoat (Glidden # 8231-05 haze gray, or equivalent).

3.3.7.4 Finish coat. All exterior surfaces shall be painted with one coat of waterborne acrylic topcoat (Glidden # 8231-01, or equivalent). Finish coat(s) shall be white in color.

3.3.7.5 Film thickness. Exterior prime and finish coat dry film thickness shall be 6 mils minimum.

3.3.8 Portability. The armory shall be supported in such a manner as to prevent the floor from having direct contact with the ground and also to allow mobility.

3.3.8.1 Skids/runners. Armories shall be constructed on and affixed to heavy duty steel skids/runners. Skids/runners shall be designed and affixed to the armory to withstand transportation of armory over rough terrain. Skids/runners shall be constructed of at least 6" wide flange beams conforming to specifications of ASTM A-36. Beam width and specifications shall be selected in conformance to engineering design principles according to the size of the armory ordered and environment described above. Armories with a width exceeding eight (8) feet shall have a minimum of three skids/runners. Skids/runners shall have openings located at the ends to allow for attachment of chain and cables for ground transportation. Configuration of openings at the end of the skids shall conform to the following:

a. Armories with 6" skids. Each end of the skid shall be fitted with a 5.563 OD x 0.375 wall thickness x 6" length extra strength steel tube.

b. Armories with 8" skids. Each end of the skid shall be fitted with a 6.625 OD x 0.432 wall thickness x 8" length extra strength steel tube.

The ends of the skids shall be cut on a radius to provide a close fit with the tube. Tube sections shall be fully welded to the skid (see Attachment 14).

3.3.8.2 Hooks/eyelets. Armories shall have lift hooks, straps, eyes, rings as required to allow attachment of chains or cables for air transportation.

3.4 Environmental requirements. Armories shall be designed and constructed to allow utilization in conditions of inclement weather and environmental extremes.

3.4.1 Heating/Ventilation/Air Conditioning. Armories shall be equipped with wall or ceiling mounted heating/air conditioning units to provide internal environmental control. Units shall be self-contained, electric type and shall be sized to maintain a nominal internal temperature of 70° F during normal operations in environmental extremes from -10° F to +120° F. Single unit shall be mounted on the end wall of the armory near the primary entrance. Two smaller units may be utilized and mounted on opposite ends of the armory to provide for more efficient heat exchange and air circulation.

3.4.2 Vents. Four 12" x 12" minimum vents shall be installed as shown in Attachment 14. Vents shall provide ballistic and security equivalent to the armory sidewall. Vents shall be screened to exclude insects, and shall be fitted with closeable louvers to contain heat/air conditioning during armory use.

3.5 Lighting.

3.5.1 Internal lighting. Internal lighting shall be fluorescent type and shall provide a minimum lighting level of 50 foot-candles at a height of three feet when measured from the floor of the armory. Lighting fixtures shall be dust-resistant and shatter-resistant type equipped with positive means of securing diffuser against vibration. Fixtures shall be equipped with high-output fluorescent tubes and shall be installed in two rows along the long axis of the armory. Fixtures shall be placed with equal spacing between rows of lights and side walls of the armory.

3.5.2 External lighting. All external armory doors shall have an incandescent light fixture installed above the door external to the armory. Fixtures shall be moisture/dust/corrosion resistant and shall be equipped with a metal guard to prevent breakage. External lighting shall provide a minimum lighting level of 0.5 foot-candles when measured at a distance three feet from the

door and three feet from the ground. Control switch for external lights shall be located interior to the armory.

3.6 Electrical requirements. Armory shall be wired to support loads from heating/air conditioning unit(s), lights and electrical outlets. Electrical power shall be provided from an internally mounted commercial breaker box supplying standard 220/110 volts, as required. Emergency power shut-off switches shall be located near each entrance/exit door.

3.6.1 Receptacles. One standard four outlet receptacle shall be installed on each end wall of the armory, near the entrance/exit doors. Each receptacle shall be connected to a separate 20 amp circuit. An additional four outlet receptacle shall be installed in the exterior service box as depicted in Attachment 14.

3.6.2 Electrical wiring. All wiring shall be enclosed in rigid conduit. Conduit runs shall be installed along the ceiling so as to minimize interference with available wall space.

3.6.3 Accessories Conduit. One run of one inch conduit shall be installed lengthwise down the center of the ceiling. Junction boxes shall be installed as depicted in Attachment 15 for optional equipment (smoke alarm, etc.) to be installed by the customer.

3.6.4 External power hookup. A weather-resistant electrical junction box shall be mounted on the end wall of the armory, adjacent to the breaker box and exterior to the armory. Junction box shall provide power to the internal breaker box and shall be used to connect external power supply to the armory. Junction box shall be equipped with a means for locking the box and also for locking the main power switch in the on/off position. See Attachment 14.

3.6.5 Exterior Service Boxes. Weather-resistant service boxes shall be installed external to the armory as shown in Attachment 14. Service boxes shall be connected with conduit as shown and fitted with a means for locking them in the closed position.

3.7 Transportation. The completed armory shall be sized and constructed to assure compliance with Motor Freight Transportation requirements/regulations and withstand transportation conditions/environments during shipment.

3.8 Workmanship. Armory interior and exterior shall be constructed in such a manner to be free of sharp edges, burrs and splinters.

4. QUALITY ASSURANCE PROVISIONS

4.1 Responsibility for inspection. Unless otherwise specified in the contract, the contractor is responsible for the performance of all inspection requirements as specified herein. Except as otherwise specified in the contract, the contractor may use his own or any other facilities suitable for the performance of the inspection requirements specified herein, unless disapproved by the Government. The Government reserves the right to perform any of the inspections set forth in the specification where such inspections are deemed necessary to assure supplies and services conform to prescribed requirements.

4.2 End item inspection.

4.2.1 Visual examination. The end item shall be examined for defects classified in Table I. Items shall be inspected 100%. Rejected item(s) shall be set aside (see 4.2.1.1).

4.2.1.1 If defective/rejected items can be corrected in such a manner as to be equivalent in performance and quality to an accepted item, upon correction of the defect(s), by the producer, the end item(s) shall be considered acceptable.

5. PREPARATION FOR DELIVERY

5.1 Preparation for delivery shall be as specified in the contract or order (see 6.2).

6. NOTES

6.1 Intended use. Pre-engineered/pre-fabricated armories are designed for permanent storage of small arms and ready-for-issue small arms ammunition. Armories are manufactured and completely assembled by the manufacturer and transported via manufacturer(s), commercial, or Government carriers to destination (see 6.2).

6.2

DELETED

6.3
submitted to:

Requests for substitutes or equivalencies shall be

Commander
Code 7095, Bldg 3252
NAVSURFWARCENDIV
300 Highway 361
Crane, Indiana 47522-5001

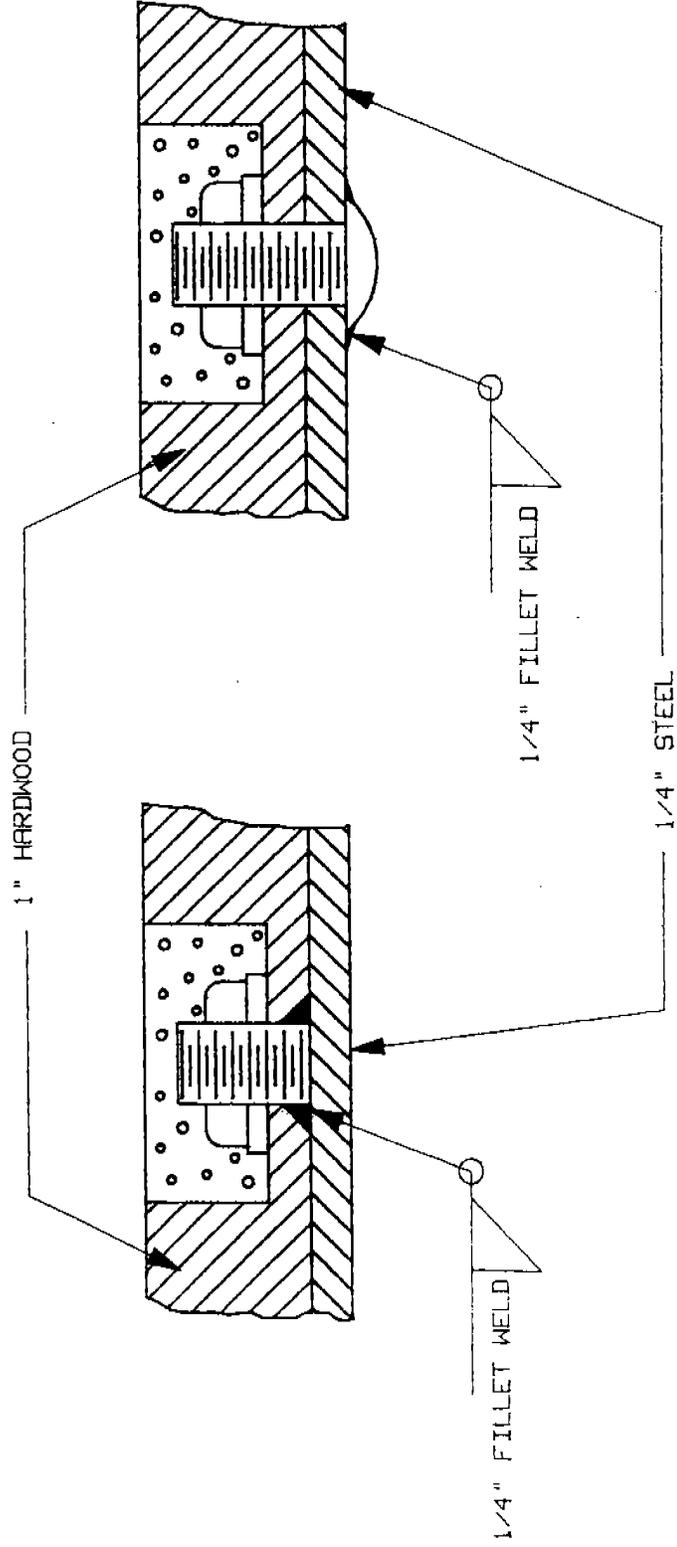
TABLE I

<u>EXAMINE</u>	<u>DEFECT</u>	<u>CLASSIFICATION</u>	
		<u>MAJOR</u>	<u>MINOR</u>
Exterior	Surface preparation not I.A.W. 3.3.6.2		X
Finish	Metal surfaces not primed coated I.A.W. 3.3.7.3	X	
	Metal surface not finish coated I.A.W. 3.3.7.4	X	
	Not free of checking, cracking, flaking, blisters or holidays	X	
	Film thickness not I.A.W. 3.3.7.5	X	
	Interior Surfaces	Not free of loose knots, decay through checks, splits, or shakes	X
	Surface preparation not I.A.W. 3.3.6.1		X
	Metal surface not primed coated I.A.W. 3.3.7.1	X	
	Interior wood surfaces not finished I.A.W. 3.3.7.2	X	
	Exceeds maximum allowable width of knots, slope of cross grain or wane		X
Workmanship	Interior - Not free of exposed ferrous metal, slivers or sharp edges	X	
	Exterior - Not free of burrs, slivers or sharp edges		X
Design and Construction	Any missing functional component or a component that will not operate/function as intended	X	
	Hinge interlock system missing or inadequate	X	
	Door hinge missing grease fittings	X	
	Door pull not installed	X	
	High security hasp not installed or not installed properly	X	

TABLE I (continued)

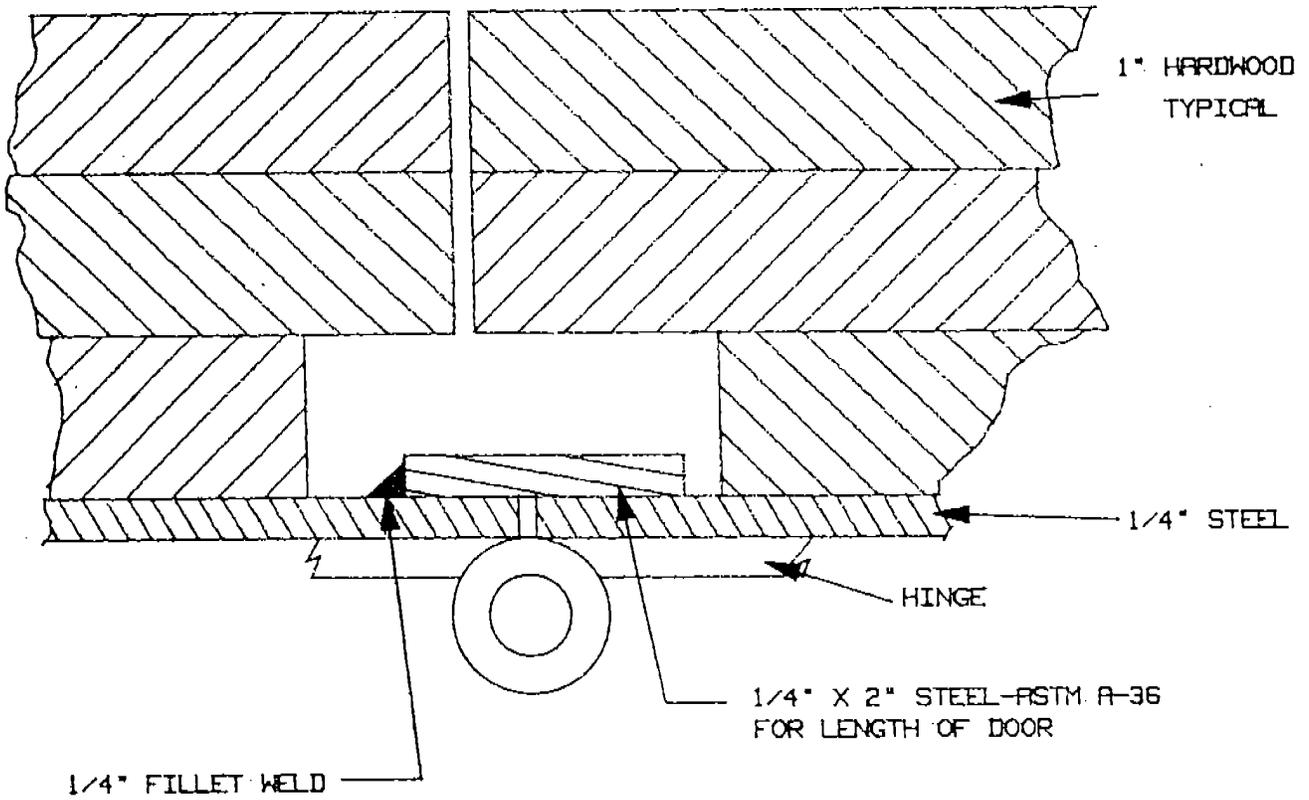
<u>EXAMINE</u>	<u>DEFECT</u>	<u>CLASSIFICATION</u>	
		<u>MAJOR</u>	<u>MINOR</u>
	Incorrect/missing identification plate		X
	Incorrect installation of wood lining	X	
	Exterior joints, seams, not continuously welded I.A.W. 3.3.1	X	
	Incorrect/missing water trap	X	
	Balanced magnetic switch missing or incorrectly installed	X	
	Wiring not enclosed in conduit	X	
	Electrical wiring not I.A.W. section 3.6	X	
	Vents not installed I.A.W. 3.4.2	X	
	Accessory Conduit not I.A.W. 3.6.3	X	
	Exterior entrance boxes not I.A.W. 3.6.4 and 3.6.5	X	
	Electric receptacles not I.A.W. 3.6.1		X
	Interior issue door not I.A.W. 3.3.4.6		X

NOTE: ELECTRIC STUD WELDING PERMISSIBLE



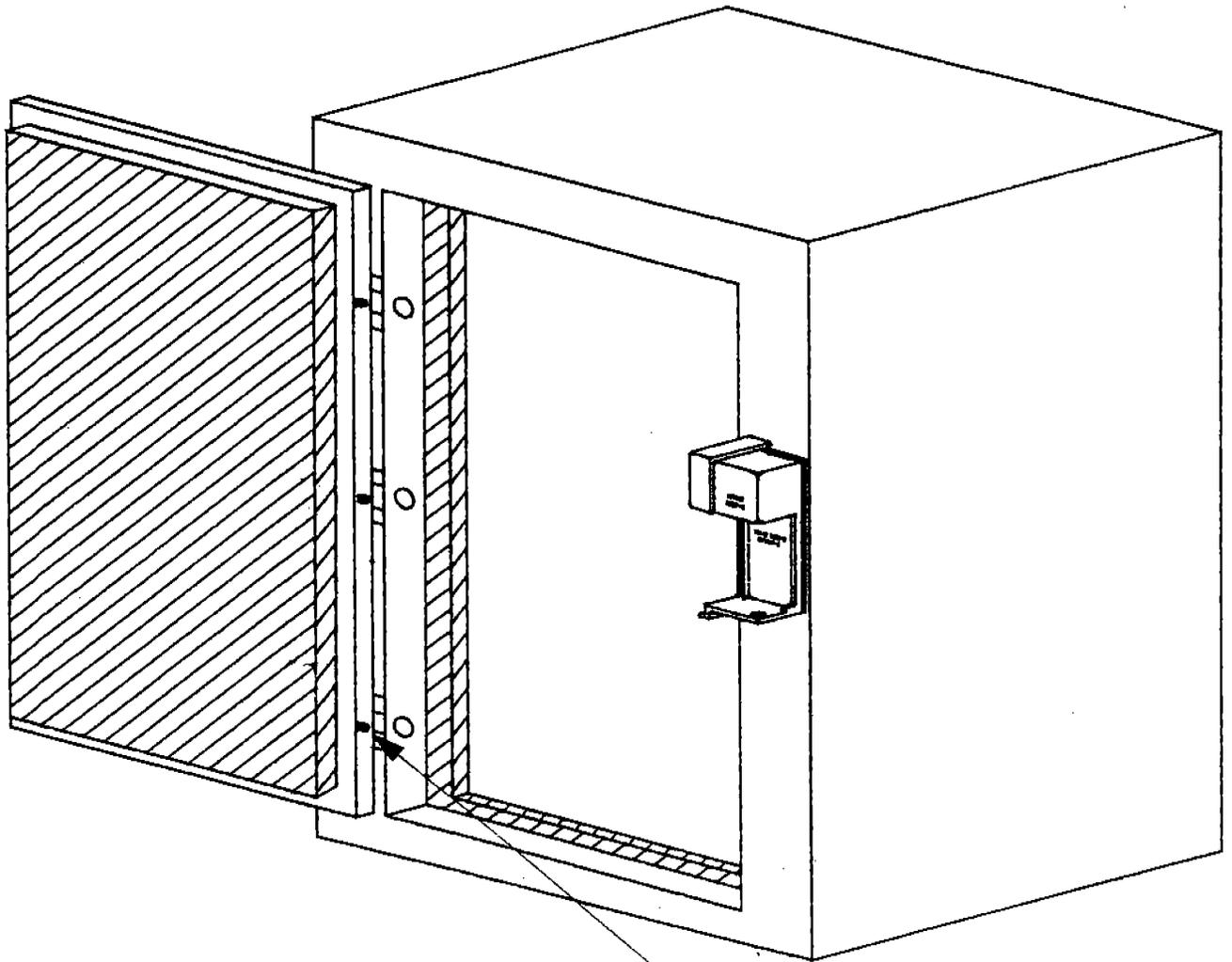
TYPICAL

ATTACHMENT 1



HARDENING TYPICAL

ATTACHMENT 2



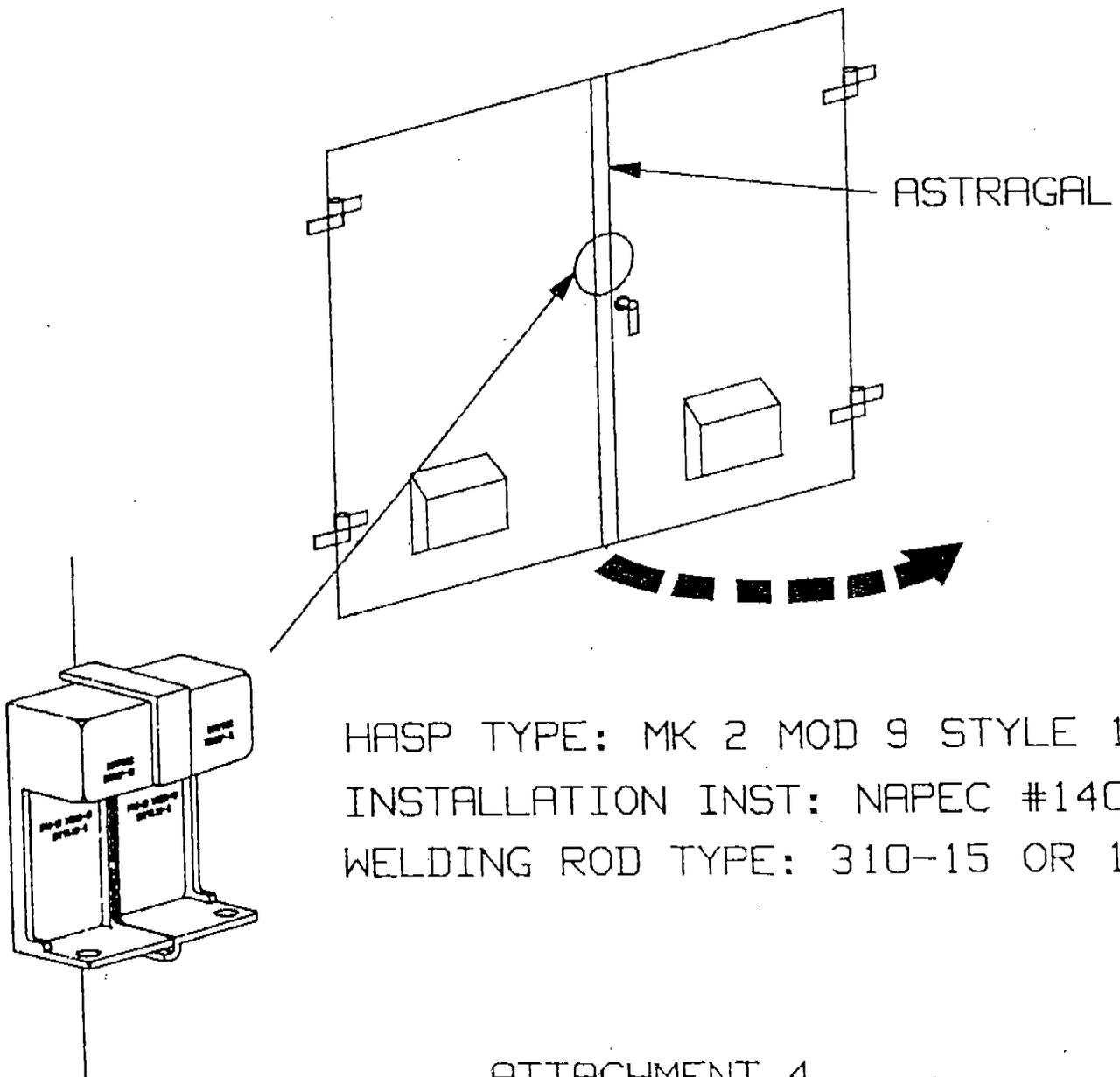
1 1/2" X 1 1/2" HRS
ASTM A-36 OR EQUIVALENT

HARDENING TYPICAL
HINGE SIDE PROTECTION

HARDENING TYPICAL HIGH SECURITY HASP INSTALLATION

TYPE 1

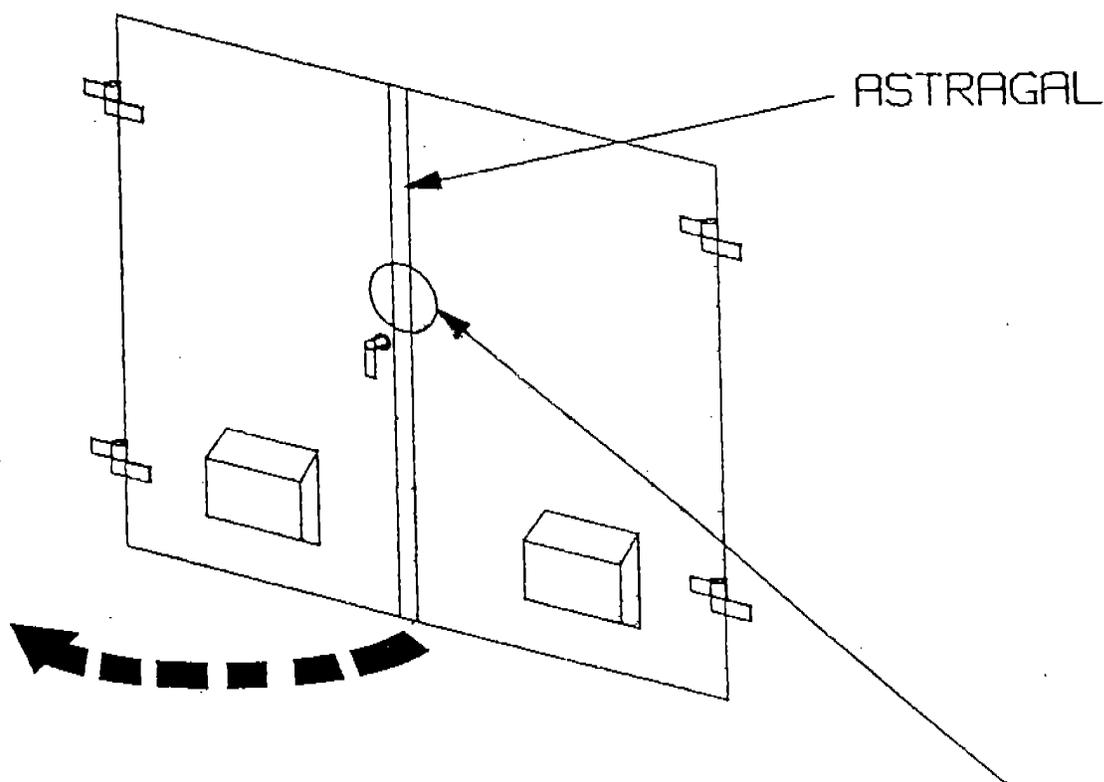
RIGHT HAND DOOR OPENING FIRST WITH ASTRAGAL



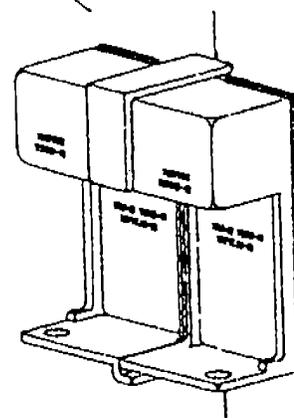
HARDENING TYPICAL HIGH SECURITY HASP INSTALLATION

TYPE II

LEFT HAND DOOR OPENING FIRST WITH ASTRAGAL



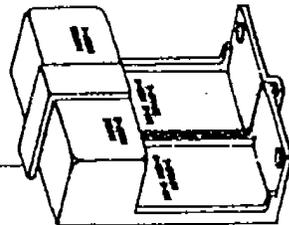
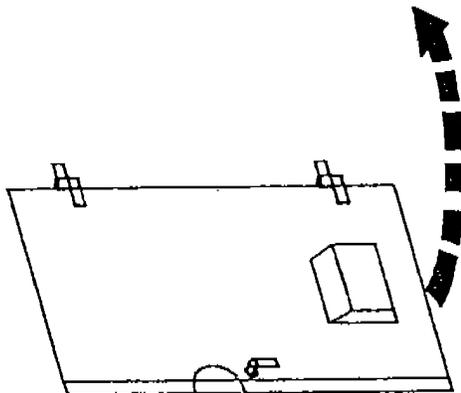
HASP TYPE: MK 2 MOD 9 STYLE 2
INSTALLATION INST: NAPEC #1404
WELDING ROD TYPE: 310-15 OR 16



HARDENING TYPICAL
HIGH SECURITY HASP INSTALLATION

TYPE III

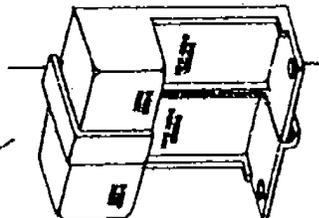
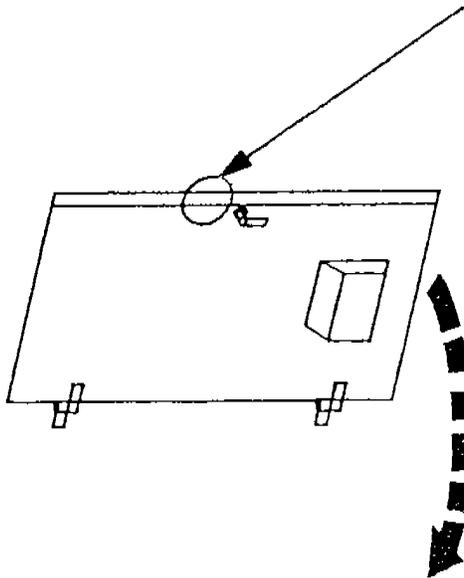
SINGLE DOOR
HINGED RIGHT SWINGING OUT



HASP TYPE: MK 2 MOD 9 STYLE 1
INSTALLATION INST: NAPEC #1403
WELDING ROD TYPE: 310-15 OR 16

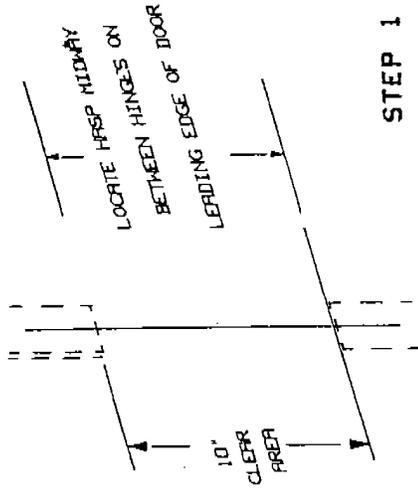
TYPE IV

SINGLE DOOR
HINGED LEFT SWINGING OUT



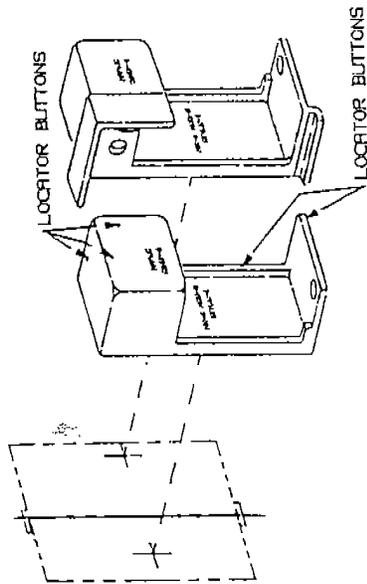
HASP TYPE: MK 2 MOD 9 STYLE 2
INSTALLATION INST: NAPEC #1404
WELDING ROD TYPE: 310-15 OR 16

INSTALLATION INSTRUCTIONS



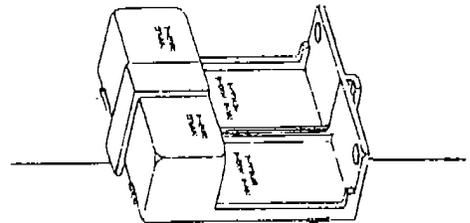
STEP 1

CUT AWAY 10 INCHES OF ASTRAGAL FROM MAGAZINE DOOR IF ASTRAGAL IS PRESENT.



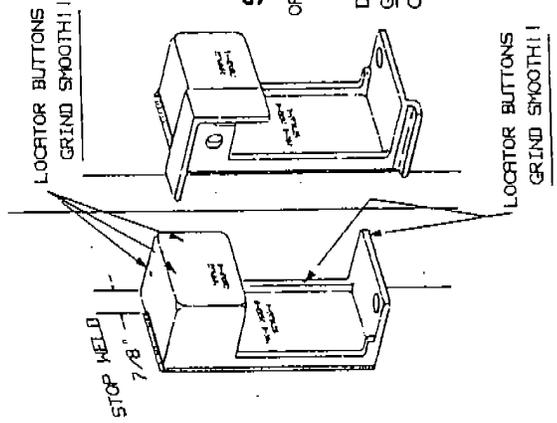
STEP 2

NOTE: LOCATOR BUTTONS HAVE BEEN CAST ONTO THE HASP TO AID INSTALLATION. POSITION HASP ON DOORS USING THE BUTTONS TO ESTABLISH CLEARANCE. TACK WELD HASP ONTO DOORS.



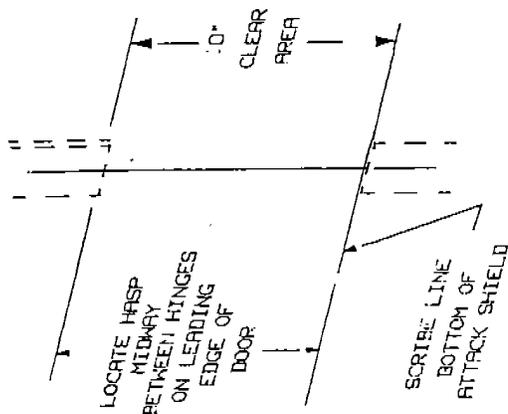
STEP 3

OPEN DOOR AND FINISH WELDING.*
CAUTION
 DO NOT WELD ON DOOR EDGES.
 GRIND OFF LOCATOR BUTTONS!!
 CLOSE DOORS.



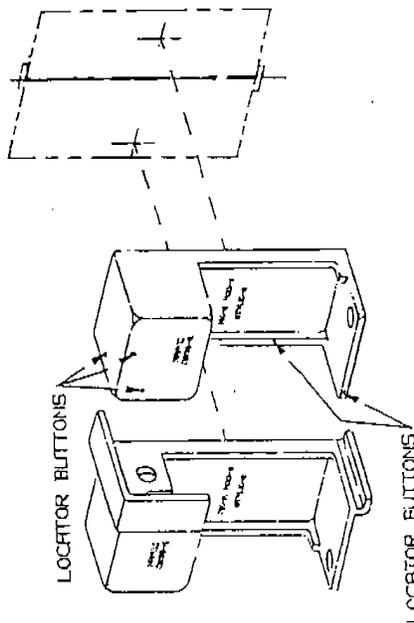
*NOTE: USE WELDING ELECTRODE (A) 310-15 OR 310-16, 3/32 DIA.

INSTALLATION INSTRUCTIONS



STEP 1

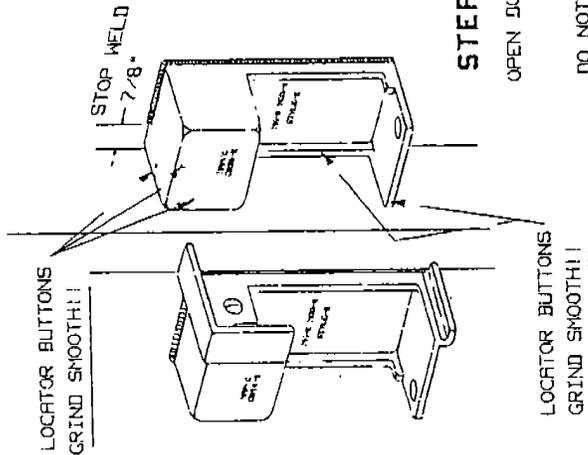
CUT AWAY 1/8 INCHES OF ASTRAGAL FROM MAGAZINE DOOR IF ASTRAGAL IS PRESENT.



STEP 2

NOTE: LOCATOR BUTTONS HAVE BEEN CAST ONTO THE HASP TO AID INSTALLATION. POSITION HASP ON DOORS USING THE BUTTONS TO ESTABLISH CLEARANCE. TACK WELD HASP ONTO DOORS.

NOTE: USE WELDING ELECTRODE (A) 3/16" DIA. OR 3/32 DIA.

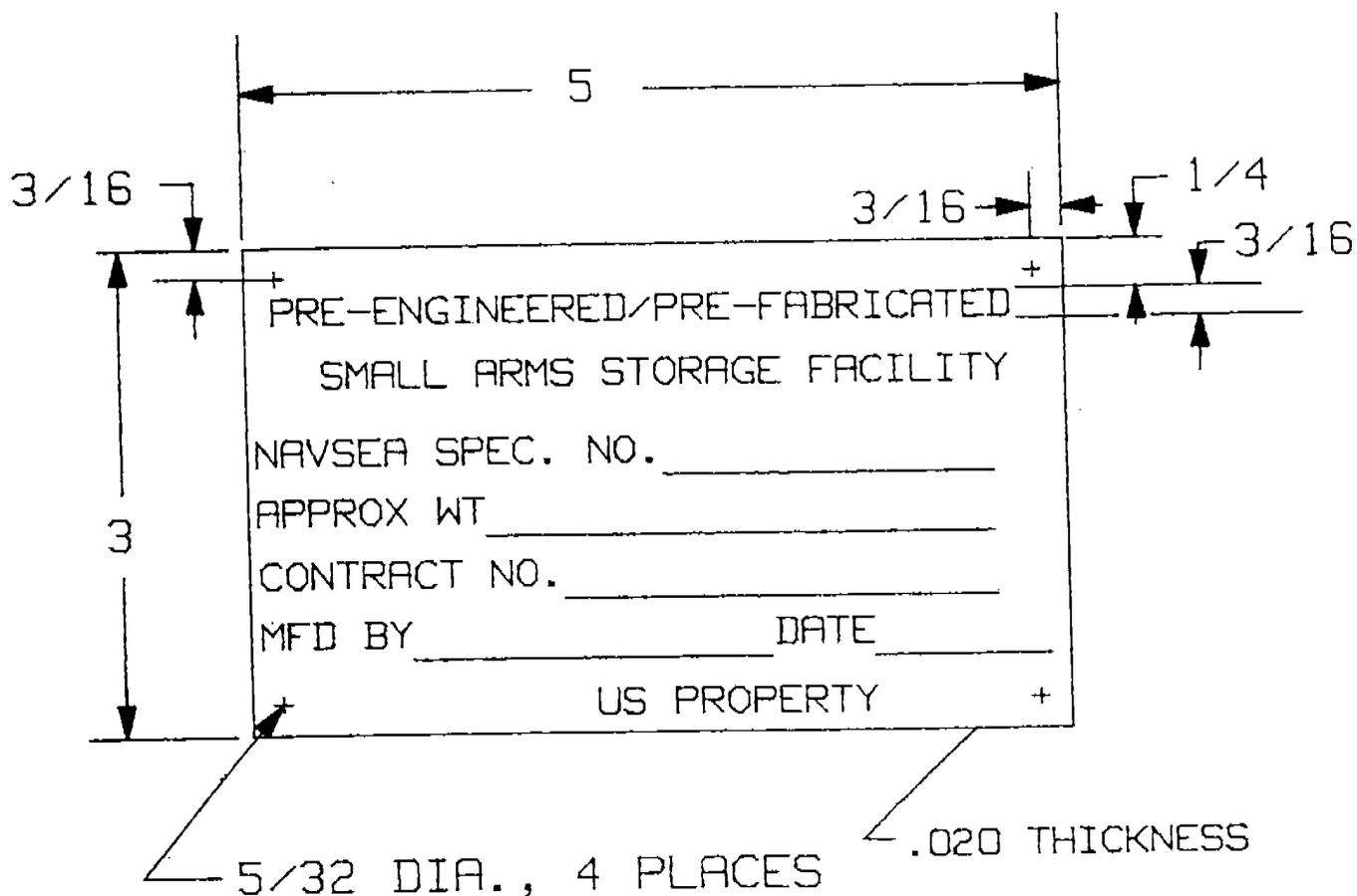


STEP 3

OPEN DOOR AND FINISH WELDING.*

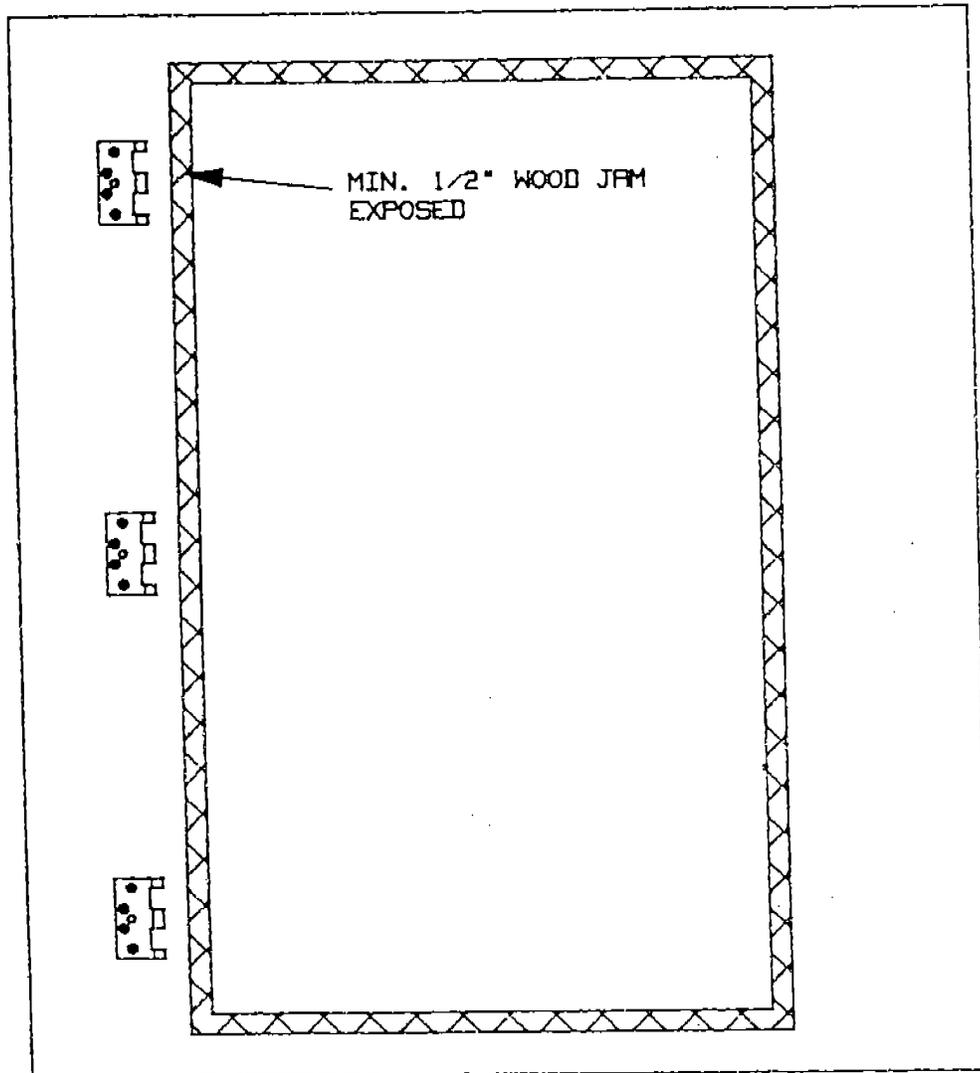
CAUTION

DO NOT WELD ON DOOR EDGES.
GRIND OFF LOCATOR BUTTONS!!
CLOSE DOORS.



IDENTIFICATION PLATE

ALL LETTERING 5/32 EXCEPT AS NOTED
SPACING BETWEEN LINES TO BE 3/16



MAGAZINE WITH DOOR REMOVED

HARDENING TYPICAL
1/2" MINIMUM DOOR JAM

ATTACHMENT 10

SECURITY BULLETIN
AUGUST 1989

ORDERING INFORMATION

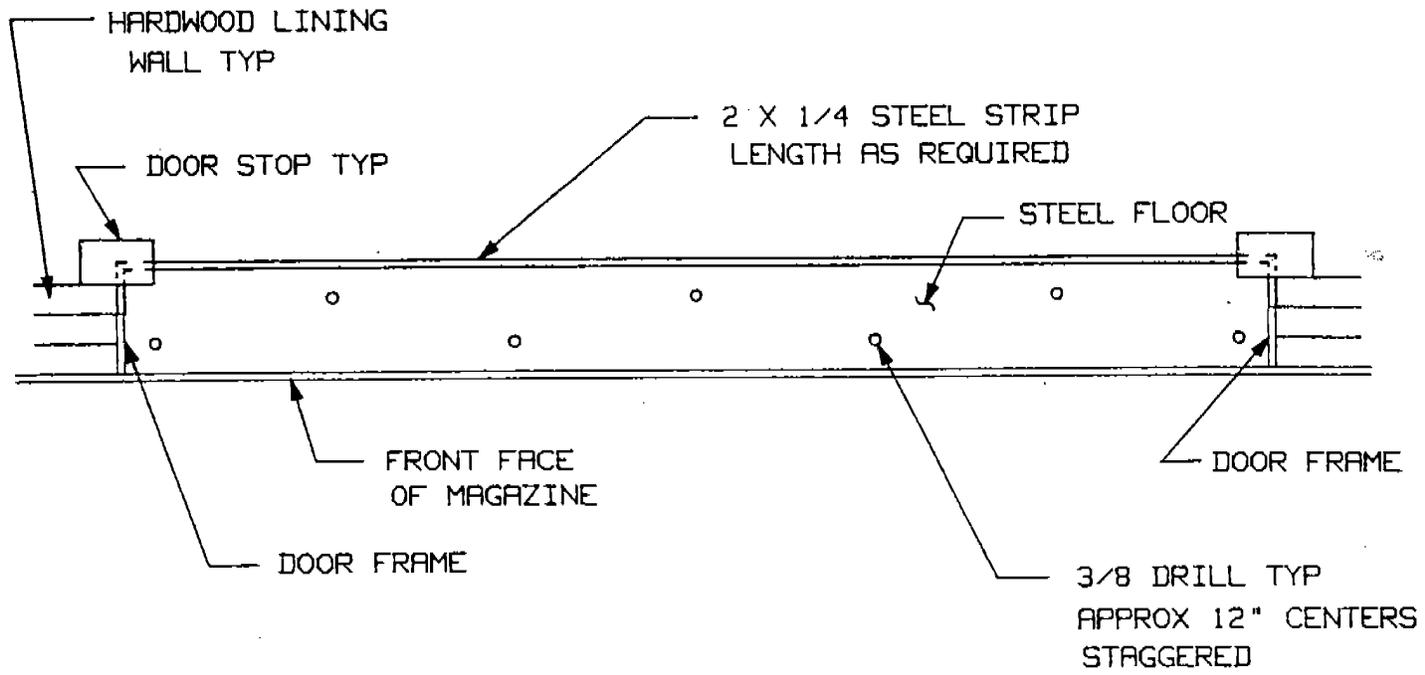
FOR THE MK 2 MOD 9 STYLE 1 AND 2 ASHORE
MAGAZINE HIGH SECURITY HASPS

1. PLACE ORDER THROUGH THE NAVY STOCK
SYSTEM.
2. NSN FOR THE MK 2 MOD 9 STYLE 1 IS:
5340-01-196-2547
(THIS IS THE NEW 0957 RIGHT HAND HASP)

NSN FOR THE MK 2 MOD 9 STYLE 2 IS:
5340-01-235-6907
(THIS IS THE NEW 0958 LEFT HAND HASP)

3. THESE ITEMS ARE NO LONGER GOVERNMENT
FURNISHED.

THIS BULLETIN SUPERSEDES ALL INFORMATION
THAT STATE THE ABOVE HASPS ARE GFM.



WATER TRAP TYPICAL

NSWC 3046-93-2
24 October 1997

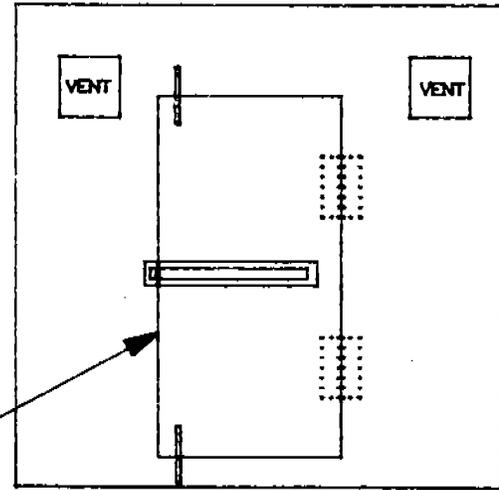
ALTERNATE SOURCES OF SUPPLY FOR HIGH SECURITY HASPS

Shellcast Inc.
3282-T E. Colby Road
P.O. Box 128
Whitehall, Michigan 49461
(616) 893-8245

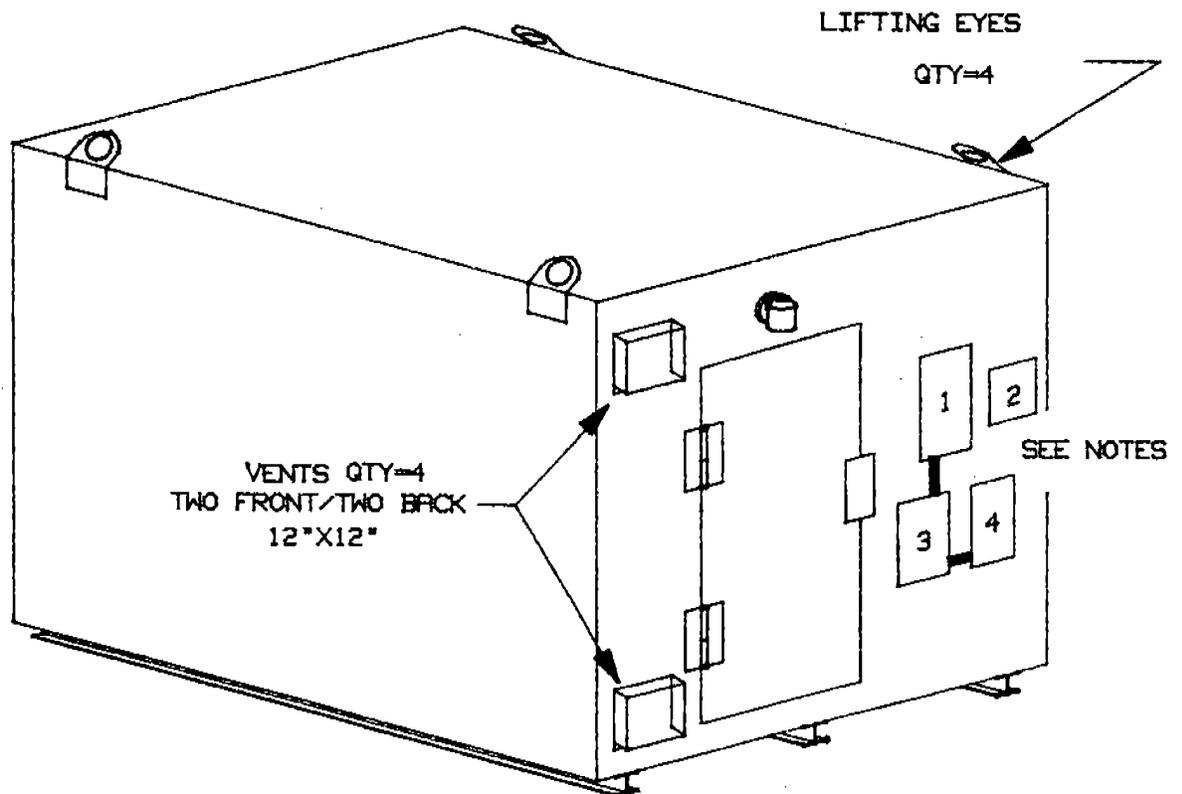
Tennessee Investment Casting Co.
Rt. 2 Blountville Highway
Bristol, Tennessee 37620
(615) 968-4252

- NOTE: 1. BOX 1=100 AMP SERVICE ENTRANCE
 BOX 2=WEATHRPROOF PHONE BOX
 (12x12x8")
 BOX 3=100 AMP PANIC DISCONNECT
 BOX 4=IDS SERVICE ENTRANCE
 (12x12x6" DEEP ELECT. BOX)
2. INSTALL A FOUR-OUTLET, 20 AMP
 110 VOLT RECPTACLE IN BOX 4.
3. HAVE A 1" CONDUIT ENTRANCE INTO
 ARMORY INTERIOR THROUGH THE
 BACK OF BOX 4.

OPTIONAL DOOR
 3' WIDE METAL DOOR
 WITH PANIC HARDWARE &
 DEADBOLTS (QTY=2)



REAR - INSIDE VIEW



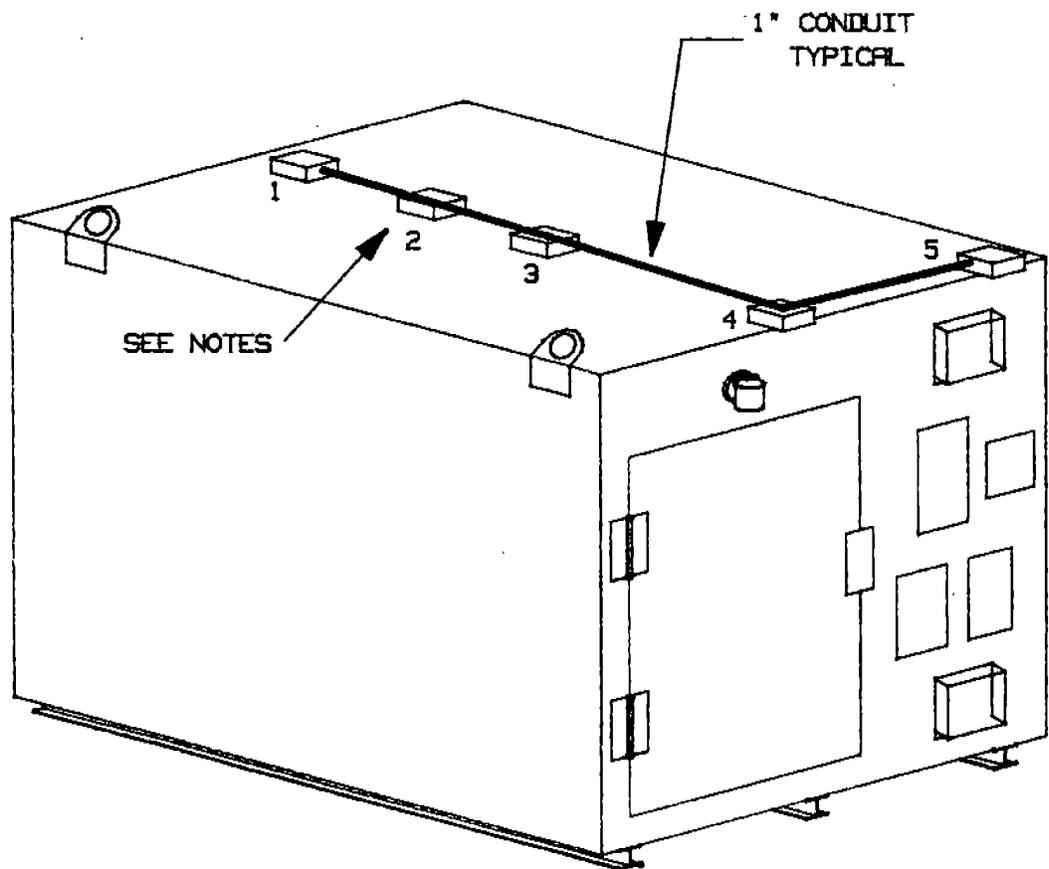
NOTES:

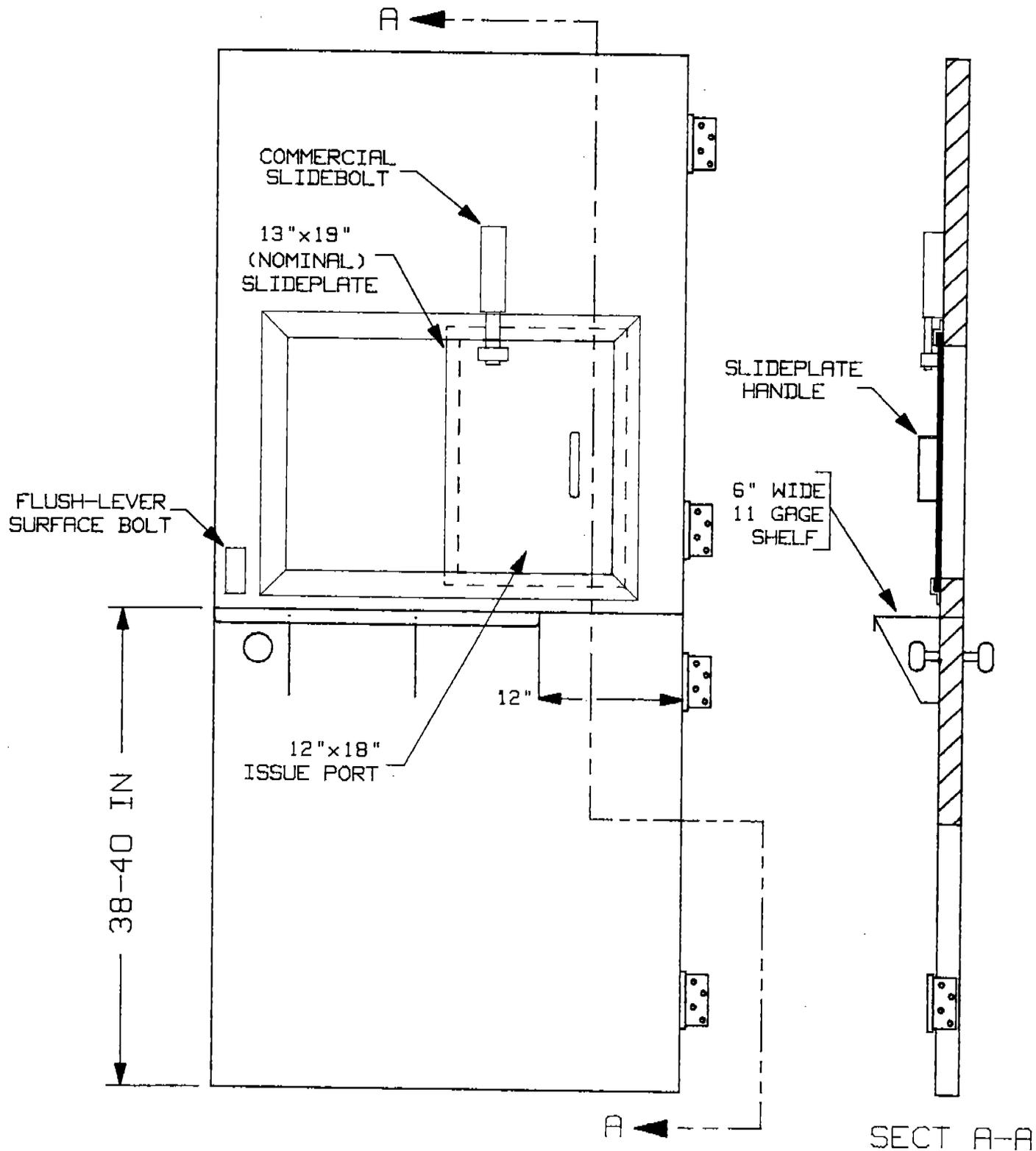
1. BOX 1=JUNCTION BOX WITH UNUSED OPENING FOR BALANCED MAGNETIC SWITCH.

BOX 2=JUNCTION BOX FOR SMOKE DETECTOR.
LOCATE HALFWAY BETWEEN BOX 1 AND BOX 3

BOX 3=JUNCTION BOX FOR PIR (CENTER OF ROOM)

BOX 4=JUNCTION BOX WITH UNUSED OPENING FOR BALANCED MAGNETIC SWITCH.





INTERIOR DOOR FACE

ATTACHMENT 16

AA&E/PADOOR