D PULLING FRAME
DESCRIPTION AND USE

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1. GENERAL

1.01 This section describes the D pulling frame which is used as a guide for the pulling line and cable when placing and removing cable in manholes that are not equipped with pulling-in irons.

1.02 This section is reissued to delete reference to the C pulling frame. The C pulling frame has been rated manufacture discontinued (Mfr Disc.). Revision arrows are used to emphasize the more significant changes.

1.03 The use of the pulling frame, cable sheaves, and quadrant blocks is covered in Sections 628-200-208 and 628-240-242.

1.04 The D pulling frame is available in 12-1/2 and 15 foot lengths.

2. PRECAUTIONS

2.01 ***The superseded B and C pulling frames should not be used when an exceptionally long length of cable is to be placed, when a difficult cable removal is expected, or in any situation where a severe strain will be placed on the sheave support. In such cases the D pulling frame should be used because of its stronger sheave support.***

2.02 ***Employees should not remain in manholes during cable placing or removal operations. Should it be necessary to check for proper alignment of equipment prior to starting the pulling operation, the employee can enter the manhole if:***

(a) ***He remains clear of the equipment and outside the angle formed by the pulling line***

(b) ***The winch line has only enough tension to provide normal alignment of the equipment.***

2.03 ***When a pulling frame is used, brace the sheave support to prevent it from shifting when a strain is applied on the pulling-in line.***

3. DESCRIPTION

3.01 The D pulling frame consists of one D sheave support, one C or one M cable sheave, one T cable sheave, and two sheave pins (Fig. 1).

3.02 The C quadrant block and the C or M and T cable sheaves are used with the D pulling frame. A typical pulling arrangement is shown in Fig. 2 and 3.

3.03 The cable sheaves and quadrant blocks are held in place in the sheave support with sheave pins. Sheave pins are equipped with a locking device which prevents accidental disengagement of a cable sheave from the sheave support.

3.04 The sheave supports are made of two 6-inch structural aluminum channels bolted rigidly back to back. They are drilled in a manner which provides for location of the sheaves on 6-inch centers along the entire length of the sheave support.

3.05 The sheave supports are available in lengths of 12-1/2 and 15 feet. The 12-1/2 foot sheave support is suitable for use in manholes up to approxi-

mately 11-1/2 feet in depth. The 15-foot sheave support is provided for use in manholes which have a depth greater than 11-1/2 feet.

3.06 The approximate weight of the individual parts of the D pulling frame is as follows:

POUNDS	PART
150	12-1/2 Foot D Sheave Support
180	15-Foot D Sheave Support
44	C Cable Sheave
36	M Cable Sheave
18	T Cable Sheave
5	Sheave Pins.

4. SUPERSEDED TYPE

4.01 ◗The B and C pulling frames (provided in 12-1/2 and 15 foot lengths) are superseded by the D pulling frame and are used in the same manner as the D pulling frame.◖

4.02 The weights of the sheave supports used in the B pulling frame are as follows:

SIZE	POUNDS
12-1/2 Foot	100
15-Foot	120

4.03 ◗The weights of the sheave supports used in the C pulling frame are as follows:

SIZE	POUNDS
12-1/2 Foot	150
15-Foot	180

4.04 The weights of the cable sheaves used with the C pulling frame are as follows:

CABLE SHEAVE	POUNDS
B	38
L	32
S	15◖

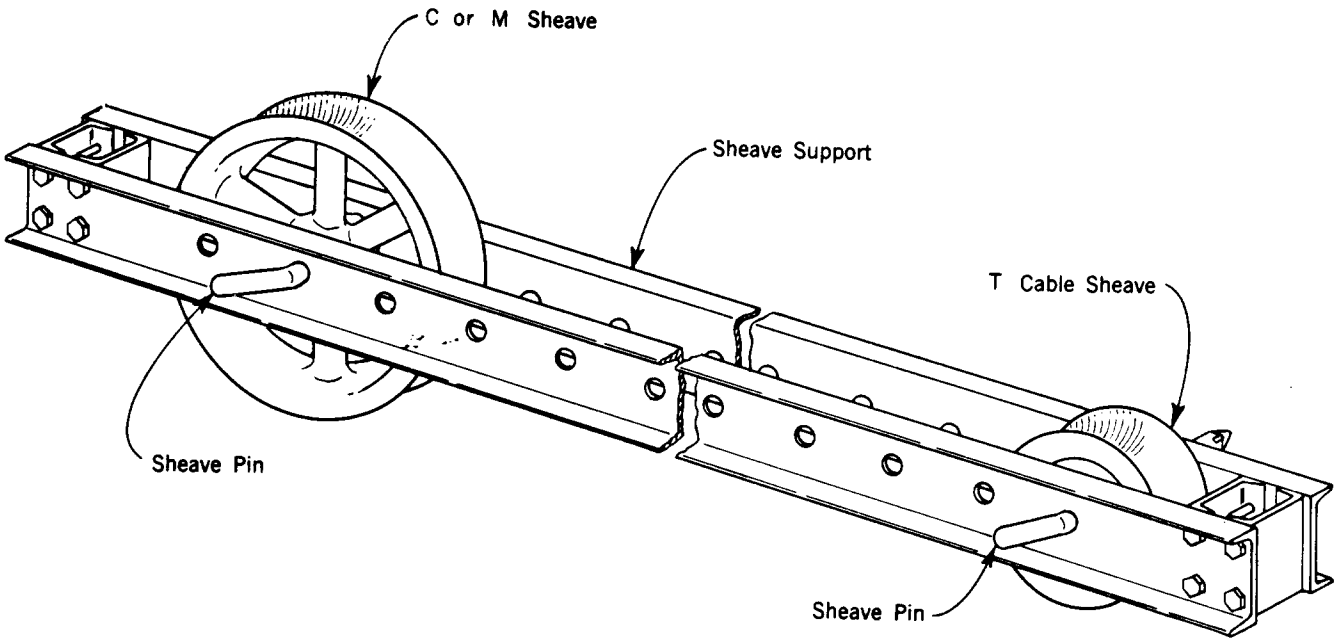

Fig. 1—Pulling Frame

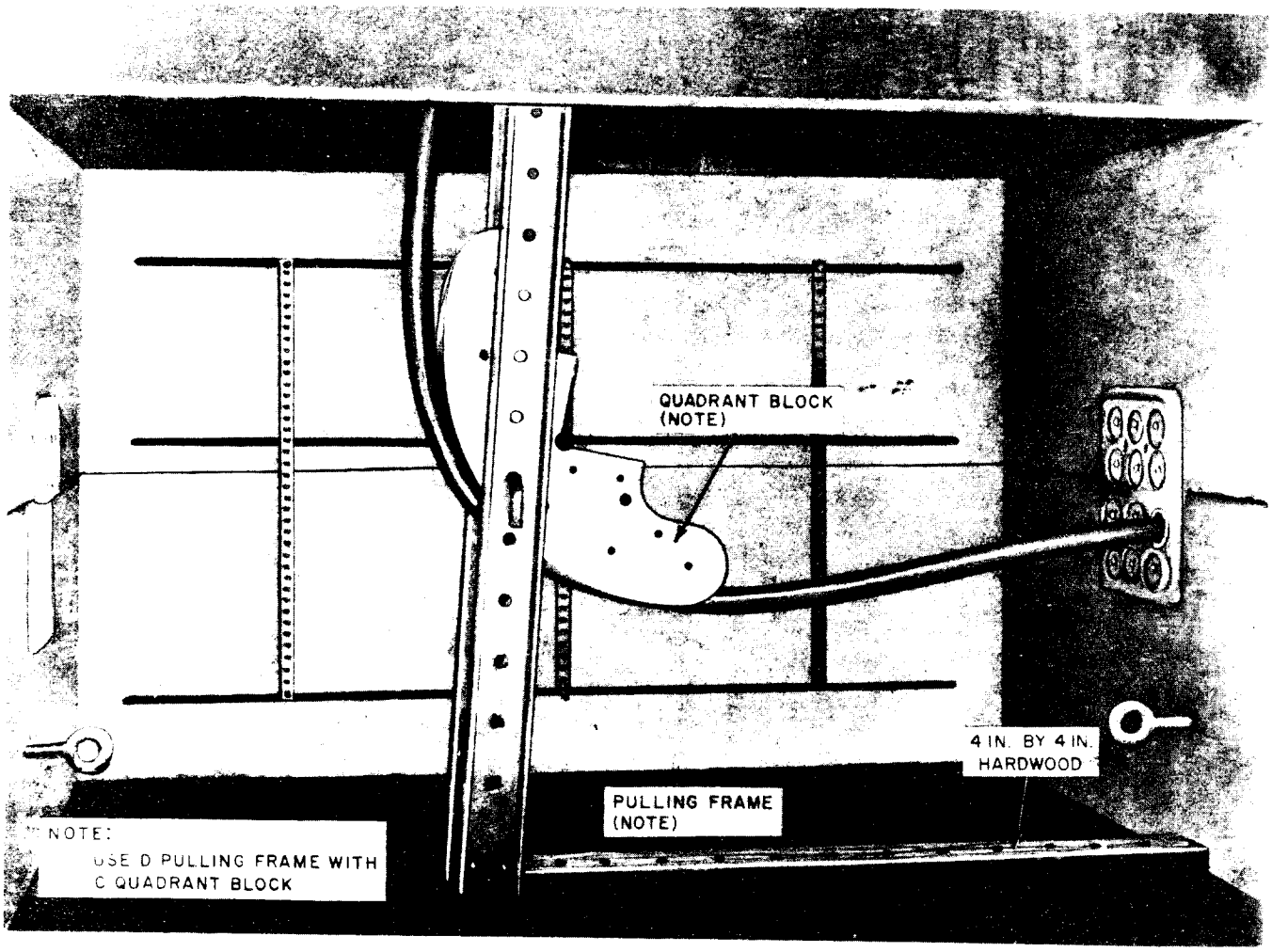

Fig. 2—Pulling Arrangement Using Pulling Frame and Quadrant Block

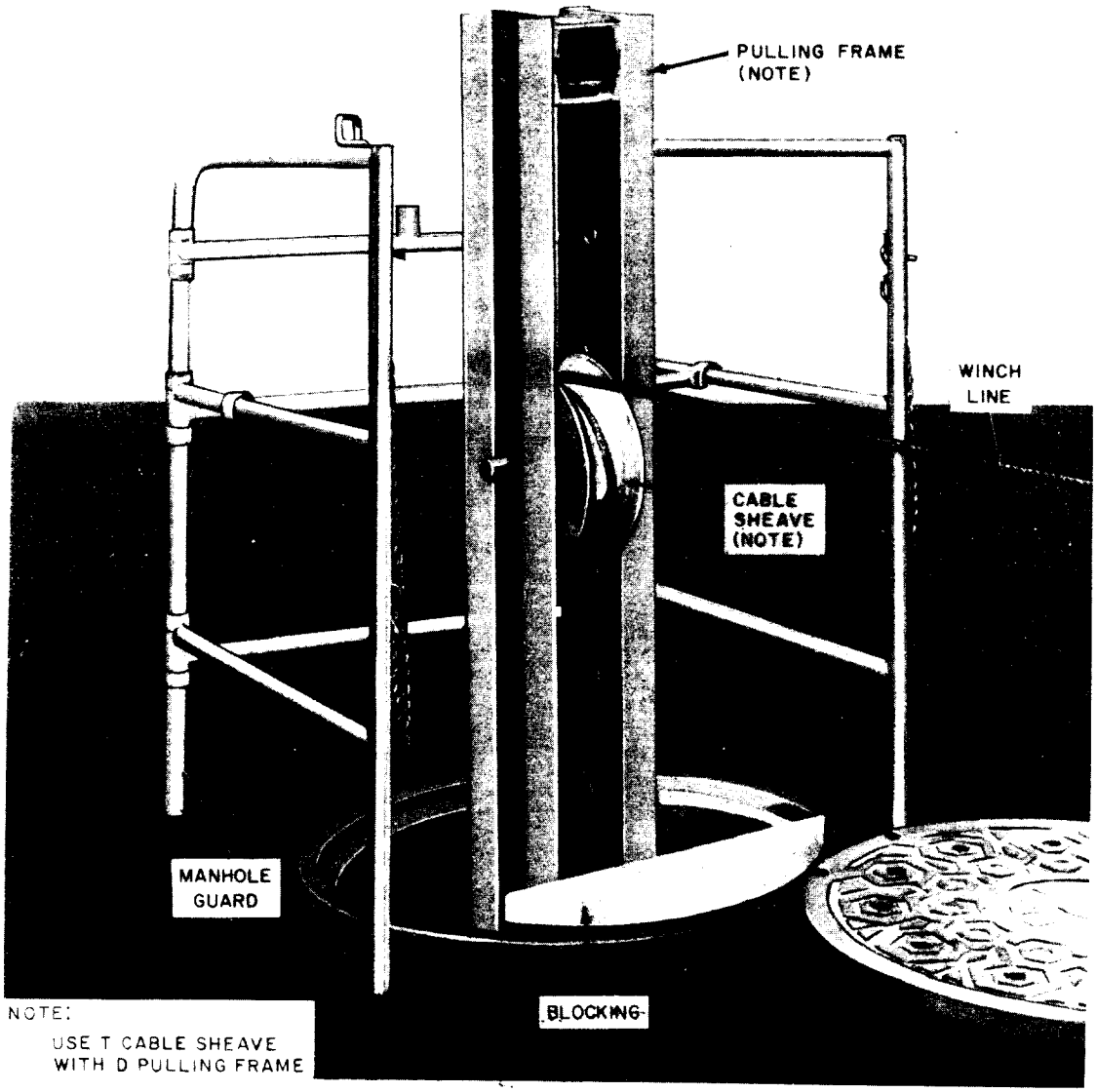

Fig. 3—View Above Manhole Showing Pulling Frame and Cable Sheave