TYPE 2 SWITCHES

Type 2 switches are satisfactory for Class A or B service. They can be used with any of the light rail tracks (Nos. 34011 through 34031) and with hand propelled carriers having 4 inch or 5 inch diameter wheels.

Type 2 switches are available for 2-way right or left hand, 2-way Y or 3-way operation. They have 45 degree outlets on the curve tracks and 6 inch throw. These switches cannot be electrified.

Rated loads for Type 2 switches are:

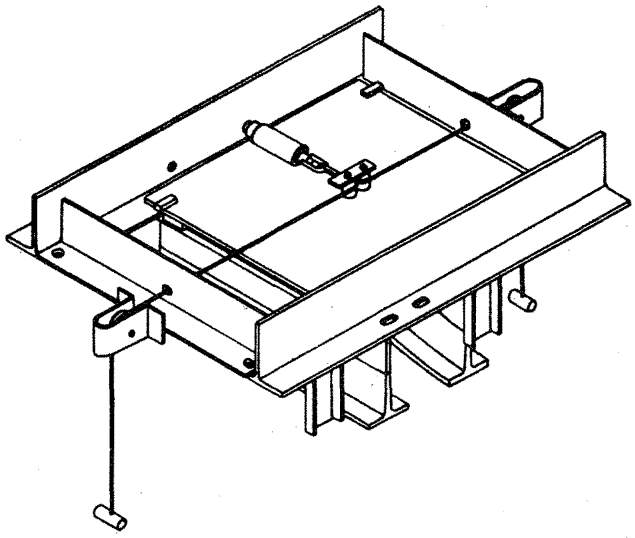
- 1,500 pounds per carrier head.
- 3,000 pounds on the sliding frame and at the outlets of the stationary frame.

The sliding frame is a welded assembly consisting of a steel plate and straight and curve tracks. A stop is provided on the frame to protect the open end of the incoming track when the switch is set against the track. A spring loaded latch holds the switch tracks in alignment with the incoming tracks as the carrier moves through the switch.

The stationary frame is a welded assembly consisting of structural tees and angles. The structural tees serve as ways for the sliding frame and are lubricated through grease fittings in the sliding frame. Guards are provided on the frame to prevent a carrier from running off the open ends of switch tracks in the event a switch is thrown with a carrier on the sliding frame. Tapped holes are provided in the frame for suspension of the switch. Slotted holes are provided for attaching the incoming tracks.

Type 2 switches are suspended by bolting direct to the superstructure using four 3/4 inch bolts (recommended method) or by four 3/4 inch hanger rods. To determine bolt or hanger rod lengths, allow 5-3/4 inch from the top of the stationary frame to the bottom of the bolt or hanger rod. When suspended from rods, the switch is braced laterally and longitudinally to maintain alignment. Suspension hardware is not included with the switch and is ordered separately.

Incoming tracks are bolted to the stationary frame using two 5/8 inch heat treated capscrews, nuts and lock washers. Slotted holes in the frame help in aligning the system by providing adjustment for the incoming tracks. Hardware is included with the switch end preparations for the incoming tracks.



Type 2 switch drawings and dimensional data are shown on Pages SW-4, SW-5 and SW-6. Switch suspension holes are indicated by black dots. The drawing and dimensions for the 2-way right hand and left hand switches on Page SW-4 indicate the dimension for Item No. 41051 2-way right hand switch. Dimensions for Item No. 41052 2-way left hand switch are identical; however, the layout is opposite from that shown and the dimensions are reversed about the centerline of the incoming straight tracks.

Suspension points for the incoming straight tracks are established so that the load on the stationary frame does not exceed its rated load of 3,000 pounds. Preferably, the first suspension point should be as close as possible to the stationary frame. The incoming curve tracks should be supported as recommended in the Track & Fittings Section with a minimum of one suspension point on the curve.

Operating handles on the control ropes are located approximately 8 feet below the track. Additional rope can be furnished as required.

Typical switching arrangements and minimum grouping dimensions for Type 2 switches are provided on Page SW-7.

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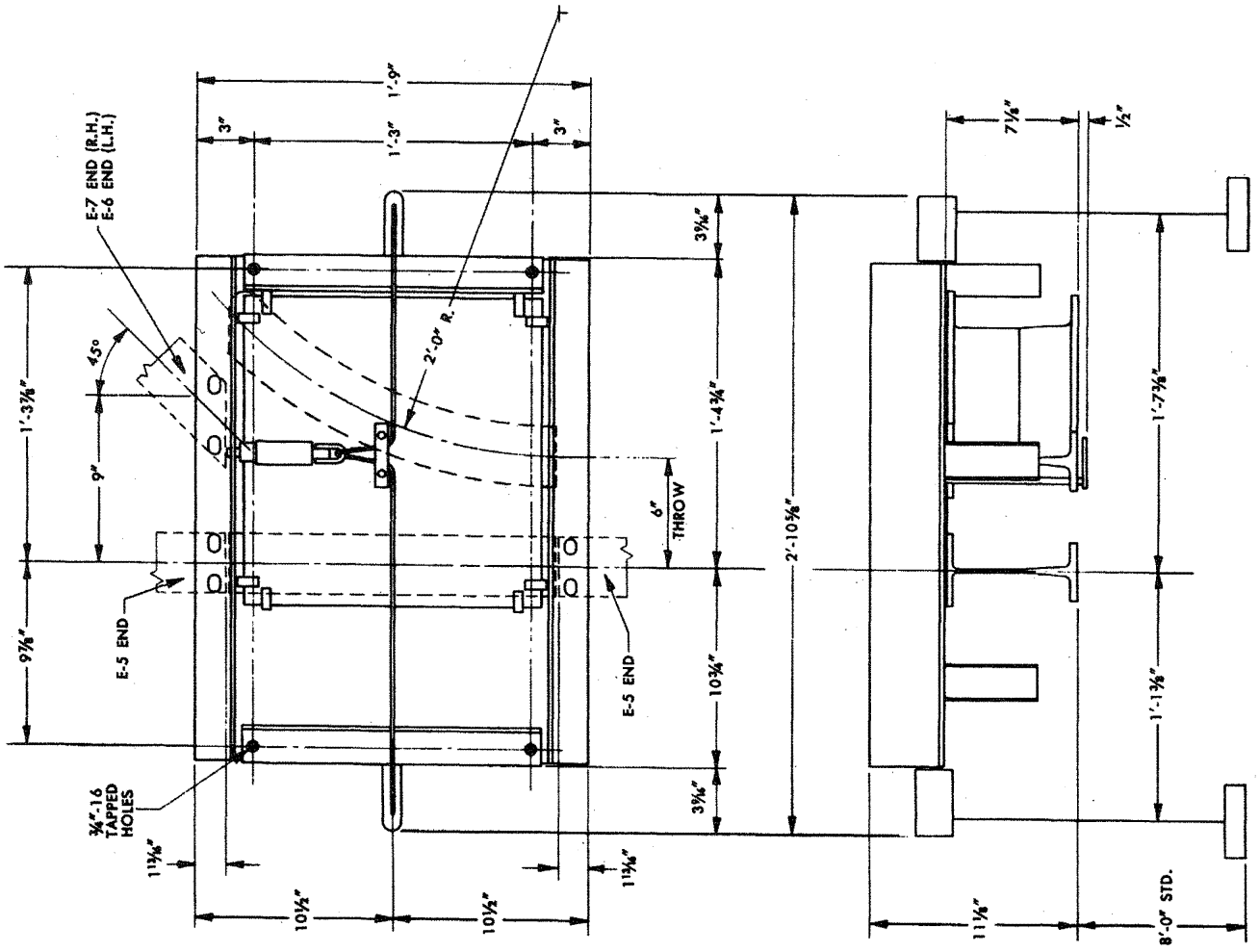
TYPE 2 SWITCHES

OUTLINE DRAWING OF CAT. No. 41051 2-WAY RIGHT HAND SWITCH
OUTLINE DRAWING OF CAT. No. 41052 2-WAY LEFT HAND SWITCH

The drawing shows the layout and dimensions for the Cat. No. 41051 2-way right hand switch. Dimensions for the Cat. No. 41052 left hand switch are identical but the layout is opposite from that shown. (Left hand switch dimensions are reversed about the centerline of the incoming straight tracks.)

The black dots indicate 3/4"-16UNF tapped holes for switch suspension. Four 3/4" diameter hanger rods or bolts are required to support the switch. To determine rod or bolt lengths, allow 5-3/4" from the top of the stationary frame to the bottom of the rod or bolt.



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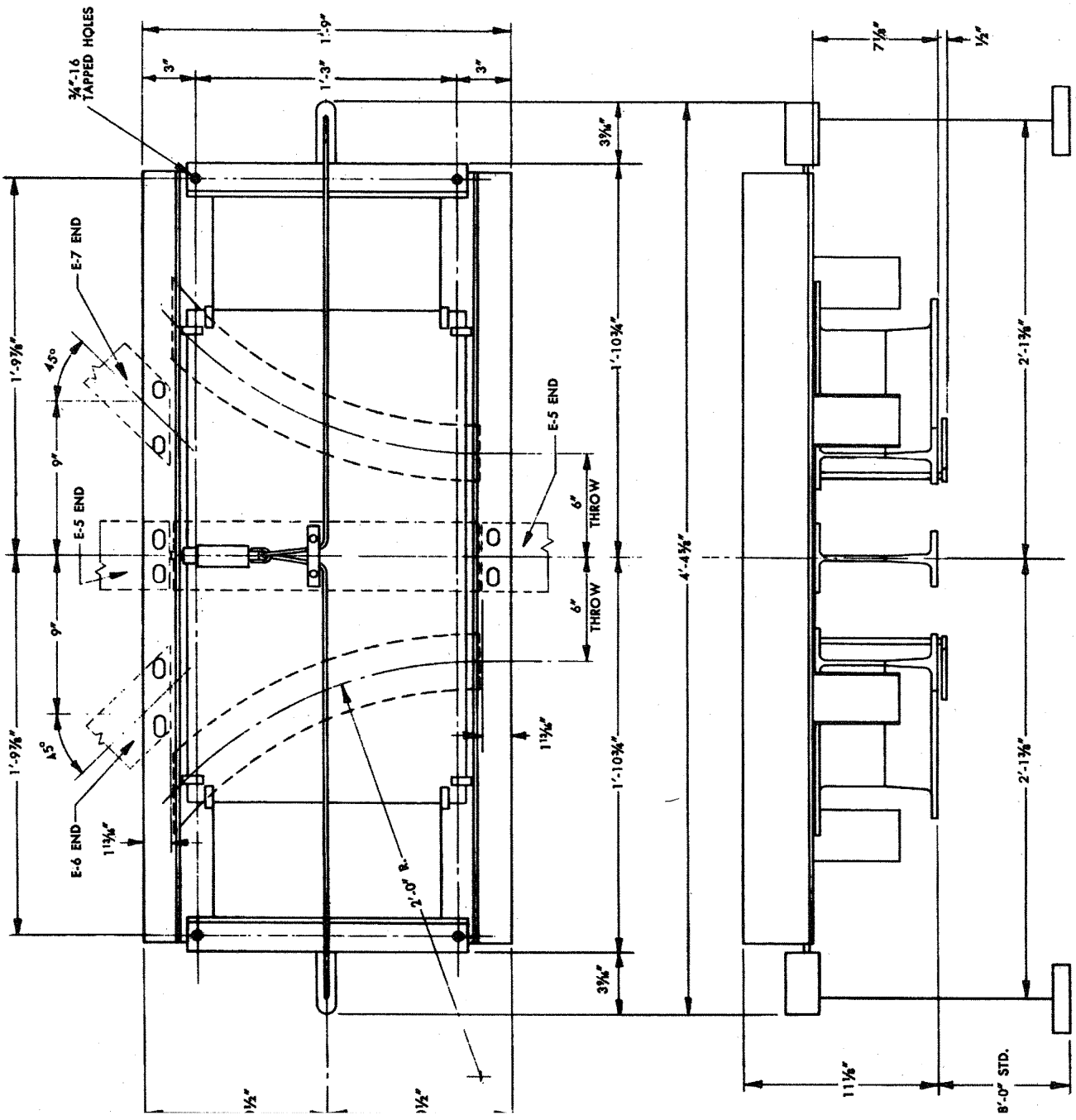
TYPE 2 SWITCHES

OUTLINE DRAWING OF CAT. NO. 41053 3-WAY SWITCH

The drawing shows the layout and dimensions for the Cat. No. 41053 3-way switch. The black dots indicate 3/4"-16UNF tapped holes for switch suspension. Four 3/4" diameter hanger rods or bolts are required to support the switch. To determine rod or bolt length, allow 5-3/4" from the top of the stationary frame to the bottom of the rod or bolt.



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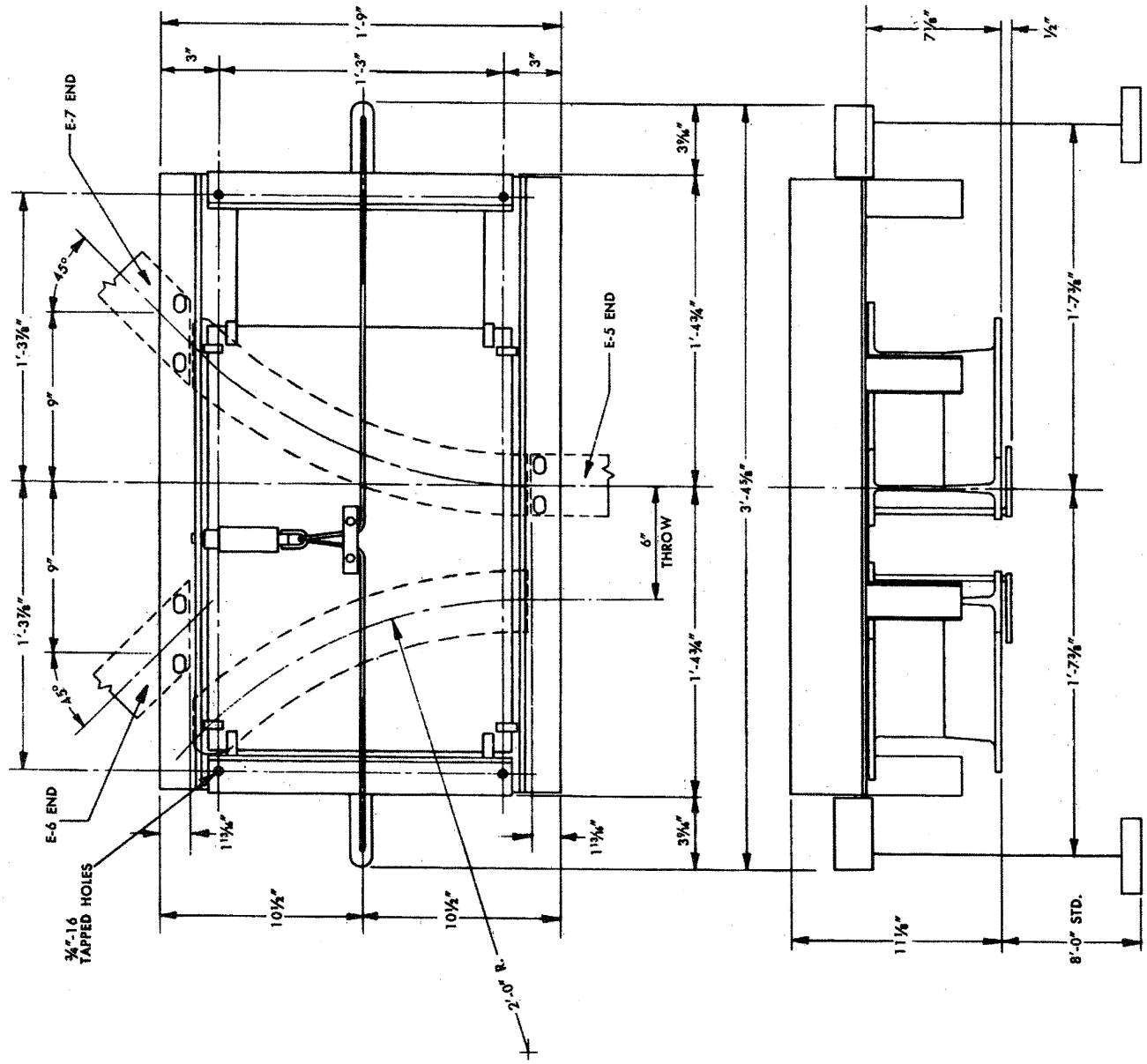
TYPE 2 SWITCHES

OUTLINE DRAWING OF CAT. NO. 41054 2-WAY SWITCH

The drawing shows the layout and dimensions for the Cat. No. 41054 2-way Y switch. The black dots indicate 3/4"-16UNF tapped holes for switch suspension. Four 3/4" diameter hanger rods or bolts are required to support the switch. To determine rod or bolt length, allow 5-3/4" from the top of the stationary frame to the bottom of the rod or bolt.



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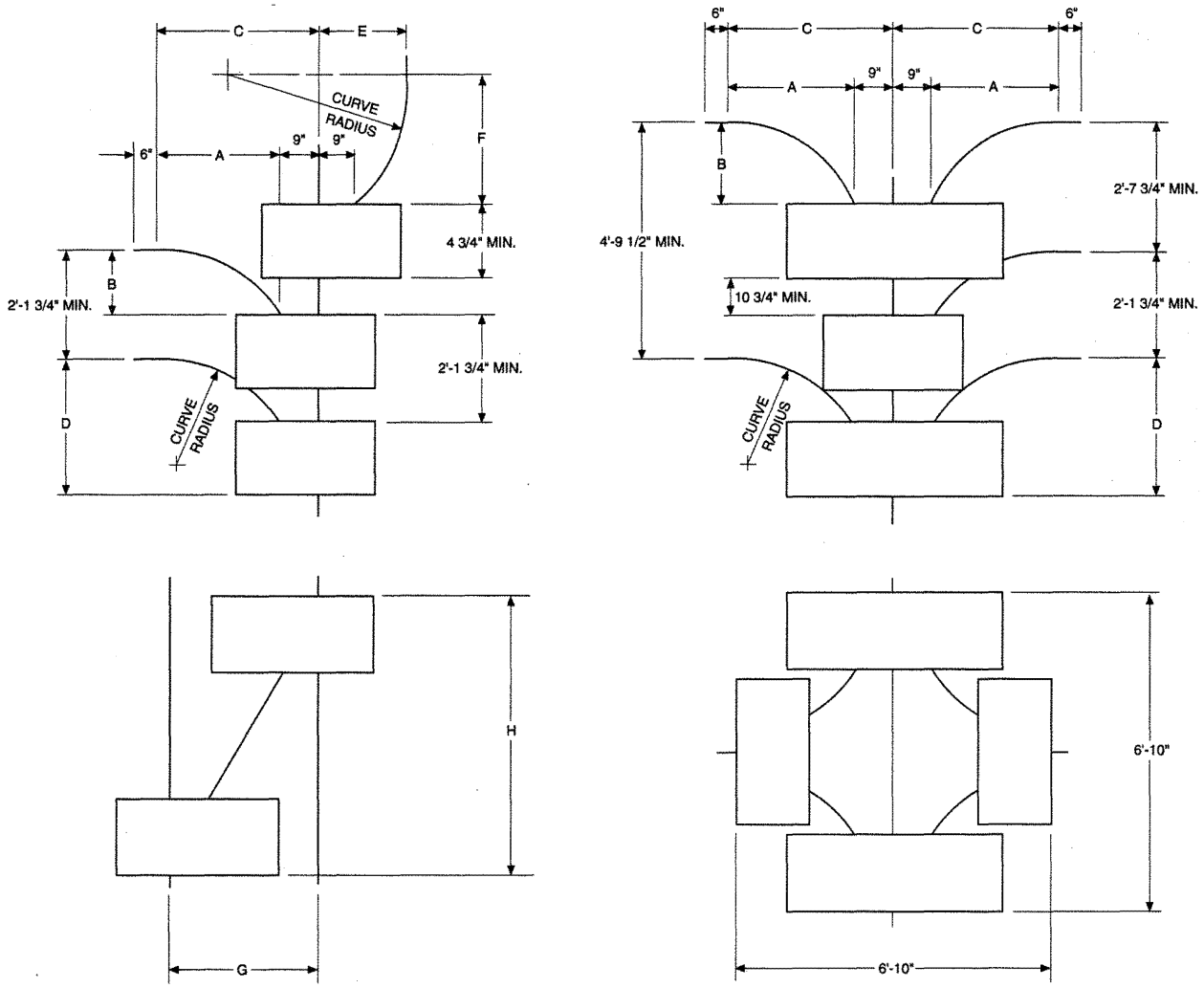
TYPE 2 SWITCHES

TYPICAL SWITCHING ARRANGEMENTS

The layouts illustrate some of the more frequently used switching arrangements and provide minimum grouping dimensions. The table lists dimensions for the more commonly used curve radii.

Close grouping of switches may require outriggers for remote operation of the control ropes to avoid interference between the ropes on one switch and a carrier leaving an adjacent switch. Consult factory for information on outriggers and remote operation.



Curve Radius	A	B	C	D	E	F	G	H
3'-6	2'-5-11/16	1'-0-5/16	3'-2-11/16	2'-9-5/16	1'-9-5/16	2'-5-11/16	2'-0	4'-0
4'-0	2'-9-15/16	1'-2-1/16	3'-6-15/16	2'-11-1/16	1'-11-1/16	2'-9-15/16	3'-0	5'-0
6'-0	4'-2-15/16	1'-9-1/16	4'-11-15/16	3'-6-1/16	2'-6-1/16	4'-2-15/16	4'-0	6'-0
8'-0	5'-7-7/8	2'-4-1/8	6'-4-7/8	4'-1-1/8	3'-1-1/8	5'-7-7/8	5'-0	7'-0
10'-0	7'-0-7/8	2'-11-1/8	7'-9-7/8	4'-8-1/8	3'-8-1/8	7'-0-7/8	6'-0	8'-0

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