

CABLE RACKS - ASSEMBLY
TUBULAR CHANNEL OR SOLID STRINGER CONSTRUCTION
BSP 800-614-157 - FIGURES 31 THROUGH 57G

CONTENTS

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| 2. CABLE RACK JUNCTIONS | 5. VERIFICATION ITEMS |
| 3. CROSS AISLE RUNS | |

- | | |
|---|---|
| 1. GENERAL | 1.2 Associated Information |
| 1.1 Scope | 1.21 General information pertaining to workmanship, definition of terms, general requirements for the assembly and location of equipment and other information of a general nature will be found in the "General" sections of this Handbook. |
| 1.11 This section covers methods and requirements for the fabrication of cable rack - BSP 800-614-157, Figures 31 through 57E. | 1.22 Reference should also be made to specifications and cabling, cable rack and auxiliary framing drawings furnished the job. |
| 1.12 The requirements covered in this section shall be followed except as modified by specifications and drawings furnished the job. | |
| 1.13 Refer to Section 13A Figure 1A to identify the cable rack type. ← | |

2. CABLE RACK JUNCTIONS ARE FORMED AS FOLLOWS:

2.1 Splices

Figure	Type of Junction
31	Racks of different widths - smaller rack centered
32	Racks of different widths - smaller rack at one side
33	Three racks of different widths in same plane

2.2 T - Intersections

Figure	Type of Junction
34	Ladder-type to ladder-type cable rack - corner bracket installed where the radius on which the cables are turned require additional support or where the cables are spread out to avoid excessive pile-up.

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2.3 Turns, Vertical and Horizontal

Figure	Note	Type of Junction
35	1, 2	90° Horizontal outside turn - radius more than 6"
36	1, 2	90° Horizontal inside turn - radius more than 6"
37	2	90° Horizontal inside turn - radius 6" or less
38		90° Horizontal outside turn - radius 6" or less
38H		Vertical ladder-type cable rack dropping off the side of bar-type cable rack - radius 6" or less
38J		Vertical ladder-type cable rack dropping off the side of bar-type cable rack - large radius 90° outside turn
38K	2	Cutting dimensions for turns and large offsets
39A		Sloping cable rack at end of distributing frame

NOTE 1: The 45° edge clamps should not be subjected to any load other than the cabling at the turn.

NOTE 2: Cutting dimensions for 90° inside and outside turns and large offsets are shown in Figure 38K. To prevent difficulty in clipping of cables, adhere rigidly to the "R" dimensions.

2.4 Acute and Obtuse Angle Turns and Intersections

Figure	Type of Junction
41	Acute angle turn in same plane
42	Obtuse angle turn in same plane
43	Acute or obtuse angle intersection

2.5 Offsets

Figure	Note	Type of Junction
38K		Offset greater than 9" in parallel planes - cutting dimension
39	1, 2	Small vertical offsets in horizontal rack
40	3, 4	Offset greater than 9" in parallel planes - ladder-type cable rack
40C	3	Offset greater than 9" in parallel planes - bar type cable rack
52		Offsets in exposed vertical cable racks

NOTE 1: Figure 39, View E shows U-shaped brackets which can be used instead of an offset where a small cable rack passes closely under a beam, girder or similar obstruction leaving insufficient room for cabling.

NOTE 2: As illustrated in Figure 39, finishing caps should be used to protect the ends of cable rack stringers and supporting bars (View D).

NOTE 3: The 45° edge clamps should not be subjected to any load other than the cabling at the offset.

NOTE 4: Cutting dimensions for 90° inside and outside turns and large offsets are shown in Figure 38J. To prevent difficulty in clipping of cables, adhere rigidly to the "R" dimensions.

3. CROSS AISLE RUNS

Figure	Note	Type of Run
54		Noncontinuous, at a level higher than cable rack over the frame.
54E	1	Bar-type cross-aisle cable rack supported by auxiliary framing where a row of frames is omitted.
54F	2, 3	Continuous, at a level higher than cable rack over the frame.
55	4	Noncontinuous, where cable runs are not exceptionally heavy.

NOTE 1: If the cable rack is run at a level 2" higher than shown in Figure 54E, where frames are omitted, the cross-aisle cable racks should be supported by additional framing as covered in Section 11C on low-type framing.

NOTE 2: Figure 54F applies only where ceiling heights will permit ultimate cabling. Offices should have a ceiling height of 12' - 6" or greater. Where the height is 12' - 6" the minimum clearance between the top of the cross-aisle cable rack and the overhead obstruction must be 6".

NOTE 3: J-bolts should be located as covered in Figure 54F. It should be noted that spacing fastenings at 5' to 6' intervals will result in the omission of fastenings at some intersections. This is permissible as long as the 6' maximum spacing is not exceeded.

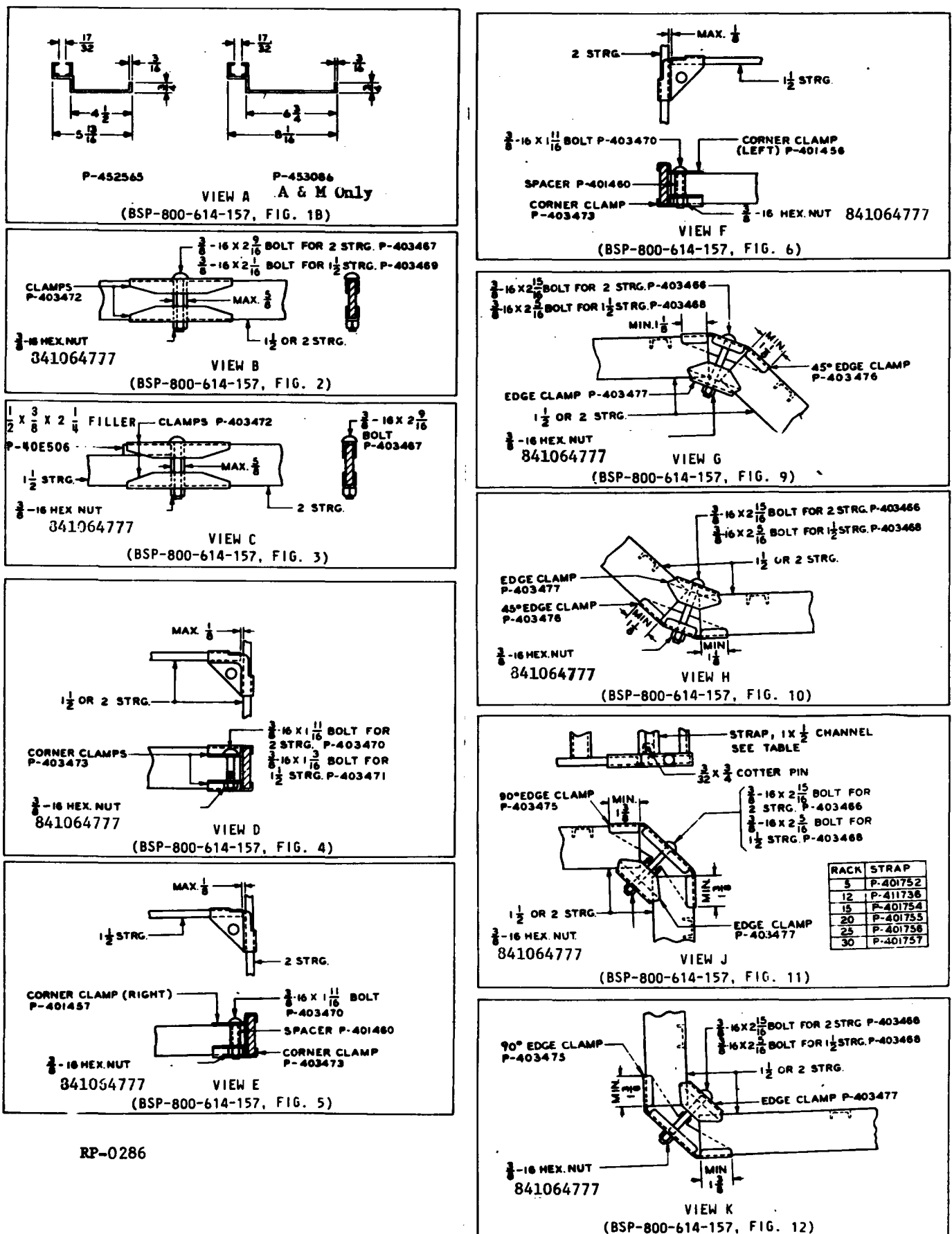
NOTE 4: Figure 55 may be used where the cable run is not exceptionally heavy to span a single aisle or a space where one row of frames is omitted. It should not be used over a space where the unsupported span of framing bars exceeds 8' - 0".

4. POWER CABLE RACK

Figure	Note	Type of Power Cable Rack
36		Remove intermediate cross straps at the bottom of vertical cable rack carrying power cable exclusively if interrupted cable rise exceeds 2 floors.
53	1	Horizontal and vertical outside turns
56	2, 3	Cable racks for power cables without main- or end-aisle cable racks
56A	5	No. 1 Crossbar and Crossbar Tandem offices where intermediate frames are omitted.
56B	7	Cable racks for power cables without main- or end-aisle cable racks
56C	6	No. 1 Crossbar and Crossbar Tandem offices where intermediate frames are omitted.
57D	4	Power cable bracket attached to bar-type cable rack, P-40C341
57E	4	Power cable bracket attached to bar-type cable rack, P-42D200
57F		Power cable bracket attached to ladder-type cable rack to carry power cable to main- or end-aisles attached to auxiliary framing
57G		Power cable bracket used in main- or end-aisle attached to auxiliary framing
NOTE 1: Turns in racks 1' - 8' wide may be assembled by bolting together, side by side, two 10" turns.		
NOTE 2: Where a power cable rack of the type shown in Figure 56 is located at the ends of frame cable racks, closing bars may be omitted provided that the power cable rack is located so that the outer edge of the channel is flush with the ends of the cable rack stringers.		
NOTE 3: Ordinarily it will not be necessary to junction two sections of cable rack of the type shown in Figure 56. When necessary to make such junctions, two P-401678 clamp bars, two 3/8" - 16" x 2" H.H. cap screws, and two 3/8" - 16 hex nuts should be used. The clamp bars shall be located, one on top and one on the bottom of the channels as shown in Figure 56.		
NOTE 4: Where supporting brackets are required for support of power cables, they should be located as indicated on ED-26026-01, Method of Running and Connecting 48-Volt Power Feeders on No. 5 Crossbar jobs.		
NOTE 5: In No. 1 Crossbar and Crossbar Tandem offices where intermediate frames are omitted in a frame lineup and the gap exceeds 3 ft., the frame line power feeders shall be supported by means of P-452565 or P-47Y176 cable rack assembly for 11'-8" or 11'-9-1/2" auxiliary framing, respectively, as shown in Figure 56A.		
NOTE 6: In No. 1 Crossbar and Crossbar Tandem offices where intermediate frames are omitted in a frame lineup and the gap exceeds 3 ft., the frame line power feeders shall be supported by means of 841210479 or 841565773 cable rack assembly for 11'-8" or 11'-9-1/2" auxiliary framing, respectively, as shown in Figure 56A.		
NOTE 7: Exposed ends of additional auxiliary framing shall be capped with P-32B304 finishing caps except where auxiliary framing is within 3 inches of a wall, column or vertical surface.		

5. VERIFICATION ITEMS

VERIFICATION ITEMS AND BRIEF STATEMENT OF REQUIREMENTS		REFERENCE		
		Sec. No.	Par. No.	Fig. No.
5.1	<u>Assembly of Ladder Type Cable Rack</u>			
5.11	Splices properly fabricated	13C	2.1	31, 32, 33
5.12	T- Intersections properly fabricated	13C	2.2	34
5.13	Turns, vertical and horizontal	13C	2.3	35, 36, 37, 38H, 38J, 38K, 41, 42, 43
5.14	Offsets, vertical and horizontal	13C		39 to 40, 52
5.15	Cross aisle runs	13C	3	54, 54F, 55
5.151	Clearance is 6" minimum between cable rack and overhead obstruction where ceiling height is greater than 12'-6".	13C	3	54F
5.152	Properly fastened at least every 6'	13C	3	
5.16	Terminations properly fabricated.			
5.161	Closing bar details omitted on cable rack offset above other cable rack.	13C	2.5	39
5.2	<u>Assembly of Horn-Type Cable Rack</u>			
5.21	Junctions properly fabricated			
5.211	<u>Turns, offsets, spirals and vertical runs</u> used with horn-type cable rack.			
5.2111	Offset fabricated with bar-type cable rack.	13C	3.5	40C
5.22	Supported at locations where frames have been omitted.	13C	4	54E
5.3	<u>Assembly of Power Cable Rack</u>			
5.31	Vertical and horizontal outside turns fabricated per Figure 53.	13C	4	53
5.32	Cable rack per Figure 56 used where there are no main- or end-aisle cable racks and junctioned properly when required.	13C	4	56
5.33	Support of power cables for main- or end-aisle cable racks per Figure 57 or 57A.	13C	4	57, 57A
5.34	Supported per Figure 57E when parallel to bar type cable rack.	13C	4	57E
5.35	On ladder type cable rack carrying power cable exclusively, intermediate cross strap is removed per Figure 36.	13C	4	36
5.36	No. 1 Crossbar and Crossbar Tandem offices where intermediate frames are omitted.	13C	4	56A



RP-0286

FIG. 30A VIEWS COMMONLY REFERRED TO IN OTHER FIGURES OF THIS SECTION

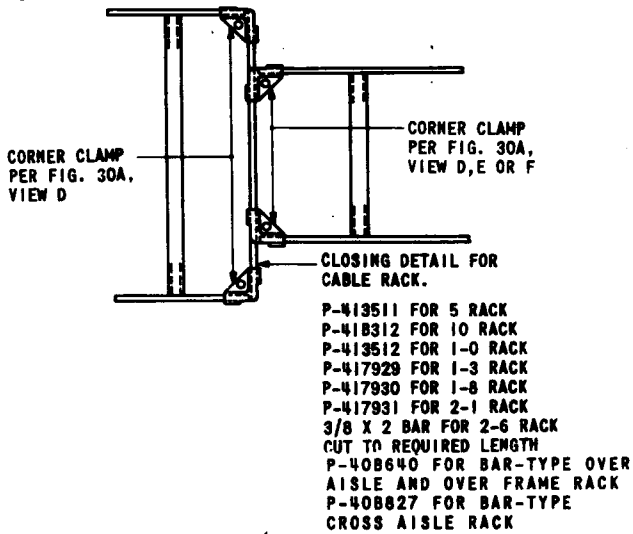


FIG. 31 RP-0287
JOINING RACKS OF DIFFERENT
WIDTHS IN SAME PLANE - SMALL-
ER RACK APPROXIMATELY IN
CENTER (PAR. 2.1)
(BSP 800-614-157, Fig. 31)

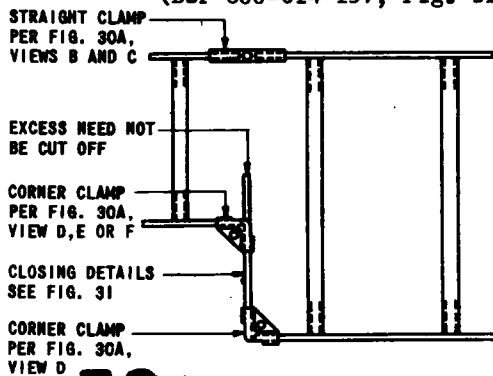


FIG. 32 RP-0288
JOINING RACKS OF DIFFERENT
WIDTHS IN SAME PLANE - SMALL-
ER RACK AT ONE SIDE
(PAR. 2.1)
(BSP 800-614-157, Fig. 32)

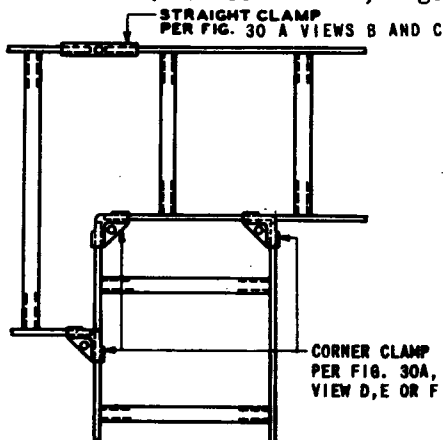


FIG. 33 RP-0289
JOINING THREE RACKS OF DIFF-
ERENT WIDTHS IN SAME PLANE
(PAR. 2.1)
(BSP 800-614-157, Fig. 33)

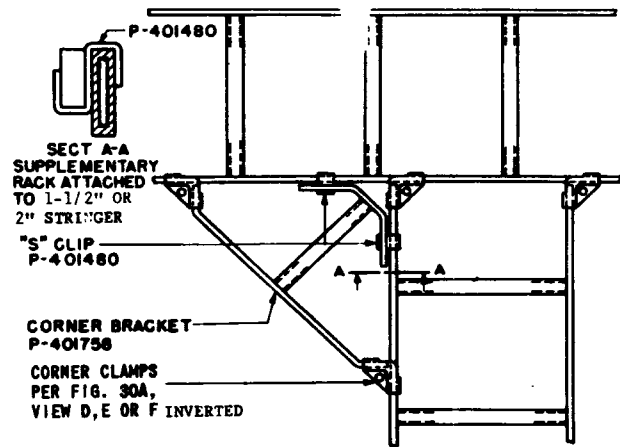


FIG. 34 RP-0290
CORNER BRACKET AT TURN OR
INTERSECTION (PAR. 2.2)
(BSP 800-614-157, Fig. 34)

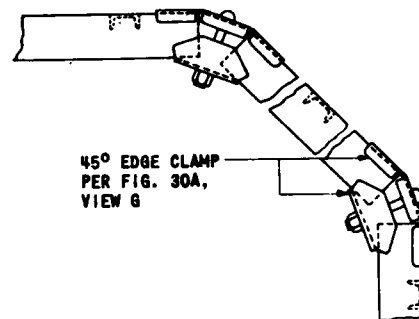


FIG. 35 RP-0291
90-DEGREE OUTSIDE TURN FOR
RADIUS MORE THAN 6" (PAR. 2.3)
(BSP 800-614-157, Fig. 35)

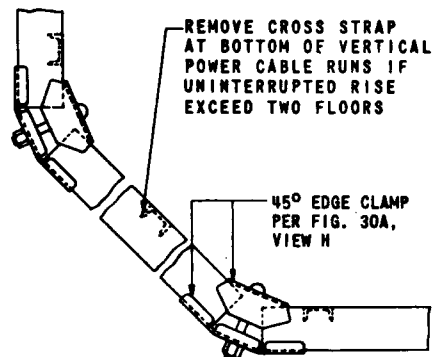


FIG. 36 RP-0292
90-DEGREE INSIDE TURN FOR A
RADIUS OF MORE THAN 6"
(PARS. 2.3, 2.4)
(BSP 800-614-157, Fig. 36)

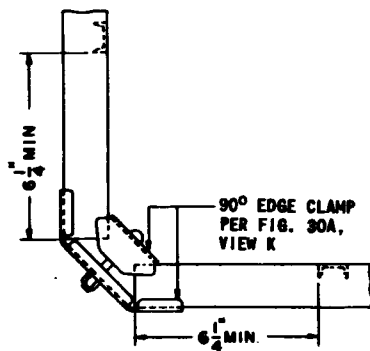


FIG. 37 RP-0293
90-DEGREE INSIDE TURN FOR A
RADIUS OF 6" OR LESS
(PAR. 2.3)
(BSP 800-614-157, Fig. 37)

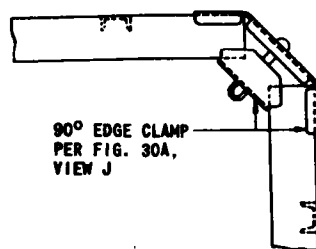


FIG. 38 RP-0294
90-DEGREE OUTSIDE TURN FOR
RADIUS OF 6" OR LESS
(PAR. 2.3)
(BSP 800-614-157, Fig. 38)

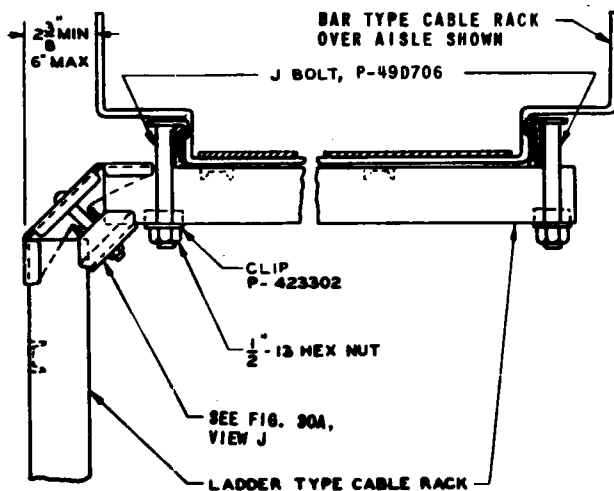


FIG. 38H RP-0295
VERTICAL LADDER-TYPE CABLE
RACK DROPPING OFF THE SIDE
OF BAR-TYPE CABLE RACK - 90
DEGREE OUTSIDE TURN OF 6"
OR LESS (PAR. 2.3)
(BSP 800-614-157, Fig. 38H)

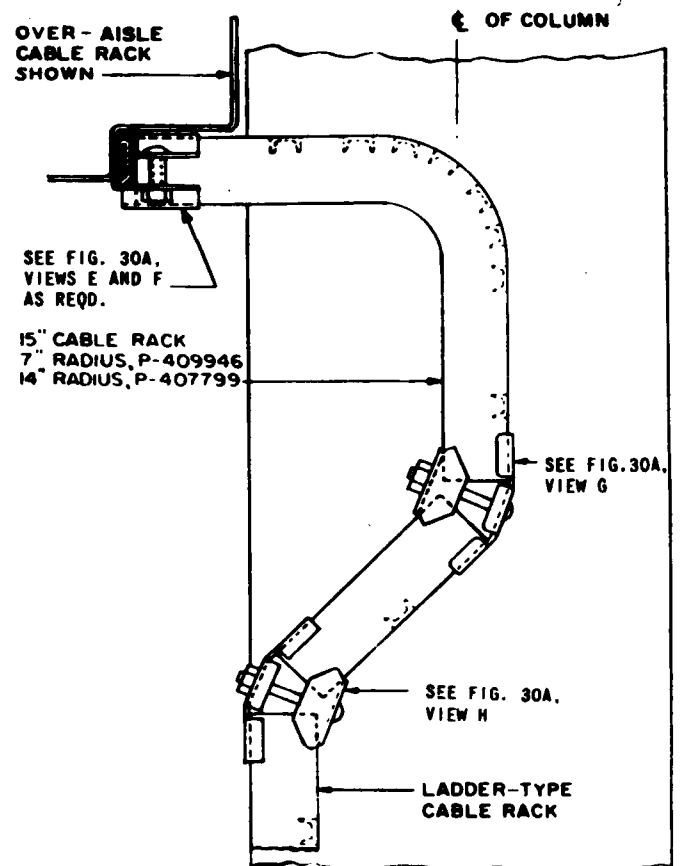
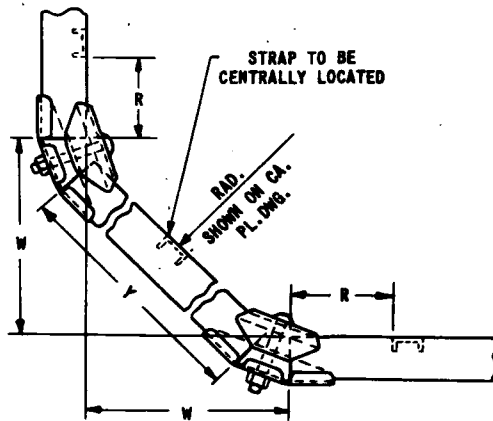


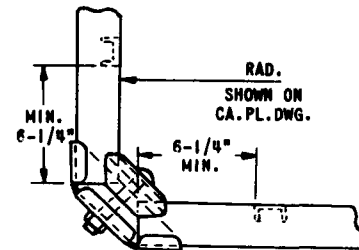
FIG. 38J RP-0296
VERTICAL LADDER-TYPE CABLE
RACK DROPPING OFF THE SIDE
OF BAR-TYPE CABLE RACK - 90
DEGREE LARGE OUTSIDE RADIUS
TURN (PAR. 2.3)
(BSP 800-614-157, Fig. 38J)



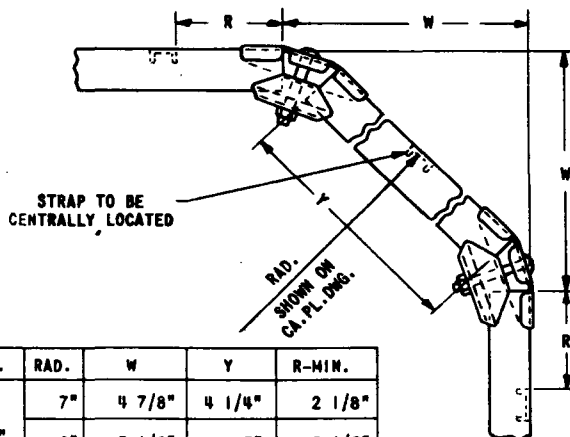
RAD.	Y	W	R-MIN.	RAD.	Y	W	R-MIN.
7" TO 1'	9 1/2"	7 5/16"	4 5/8"	1'-11"	1'-6 1/2"	1'-1 3/4"	9 1/4"
1'-3"	1'-0"	9"	5 7/8"	2'-1"	1'-8 1/4"	1'-3"	-
1'-6"	1'-2 1/2"	10 7/8"	7 1/8"	2'-5"	1'-11 1/2"	1'-5 1/4"	-
1'-8"	1'-4"	11 3/4"	8"	2'-8"	2'-2"	1'-7"	-

NOTE: WHEN RAD. SHOWN ON CA. PL. DWG. IS NOT IN THIS TABLE, USE THE NEXT LARGER IN TABLE.

90° INSIDE TURN FOR RADIUS MORE THAN 6"



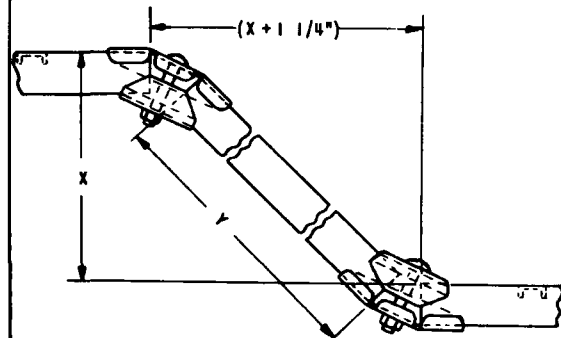
90° INSIDE TURN FOR RADIUS 6" OR LESS



STRG.	RAD.	W	Y	R-MIN.
1 1/2"	7"	4 7/8"	4 1/4"	2 1/8"
	8"	5 1/2"	5"	2 1/2"
	1'-0"	7 3/8"	8 1/4"	4 1/8"
2"	7"	5 1/8"	3 3/4"	1 7/8"
	8"	5 11/16"	4 5/8"	2 5/16"
	1'-0"	8 1/16"	7 7/8"	3 15/16"

NOTE: WHEN RAD. SHOWN ON CA. PL. DWG. IS NOT IN THIS TABLE, USE THE NEXT LARGER IN TABLE.

90° OUTSIDE TURN FOR RADIUS MORE THAN 6"



X	Y	X	Y	X	Y
10"	1'-0 3/4"	1'-7"	2'-1 1/2"	2'-4"	3'-2 1/4"
11"	1'-2 3/16"	1'-8"	2'-2 15/16"	2'-5"	3'-3 5/8"
1'-0"	1'-3 9/16"	1'-9"	2'-4 5/16"	2'-6"	3'-5 1/16"
1'-1"	1'-5"	1'-10"	2'-5 3/4"	2'-7"	3'-6 1/2"
1'-2"	1'-6 7/16"	1'-11"	2'-7 1/8"	2'-8"	3'-7 7/8"
1'-3"	1'-7 13/16"	2'-0"	2'-8 9/16"	2'-9"	3'-9 1/4"
1'-4"	1'-9 1/4"	2'-1"	2'-10"	2'-10"	3'-10 3/4"
1'-5"	1'-10 5/8"	2'-2"	2'-11 3/8"	2'-11"	4'-0 1/8"
1'-6"	2'-0 1/16"	2'-3"	3'-0 13/16"	3'-0"	4'-1 1/2"

OFFSET GREATER THAN 9" IN PARALLEL PLANES

RP-0297

FIG. 38K CUTTING DIMENSIONS FOR 90° INSIDE AND OUTSIDE TURNS AND LARGE OFFSETS (PARS. 2.3, 2.5)

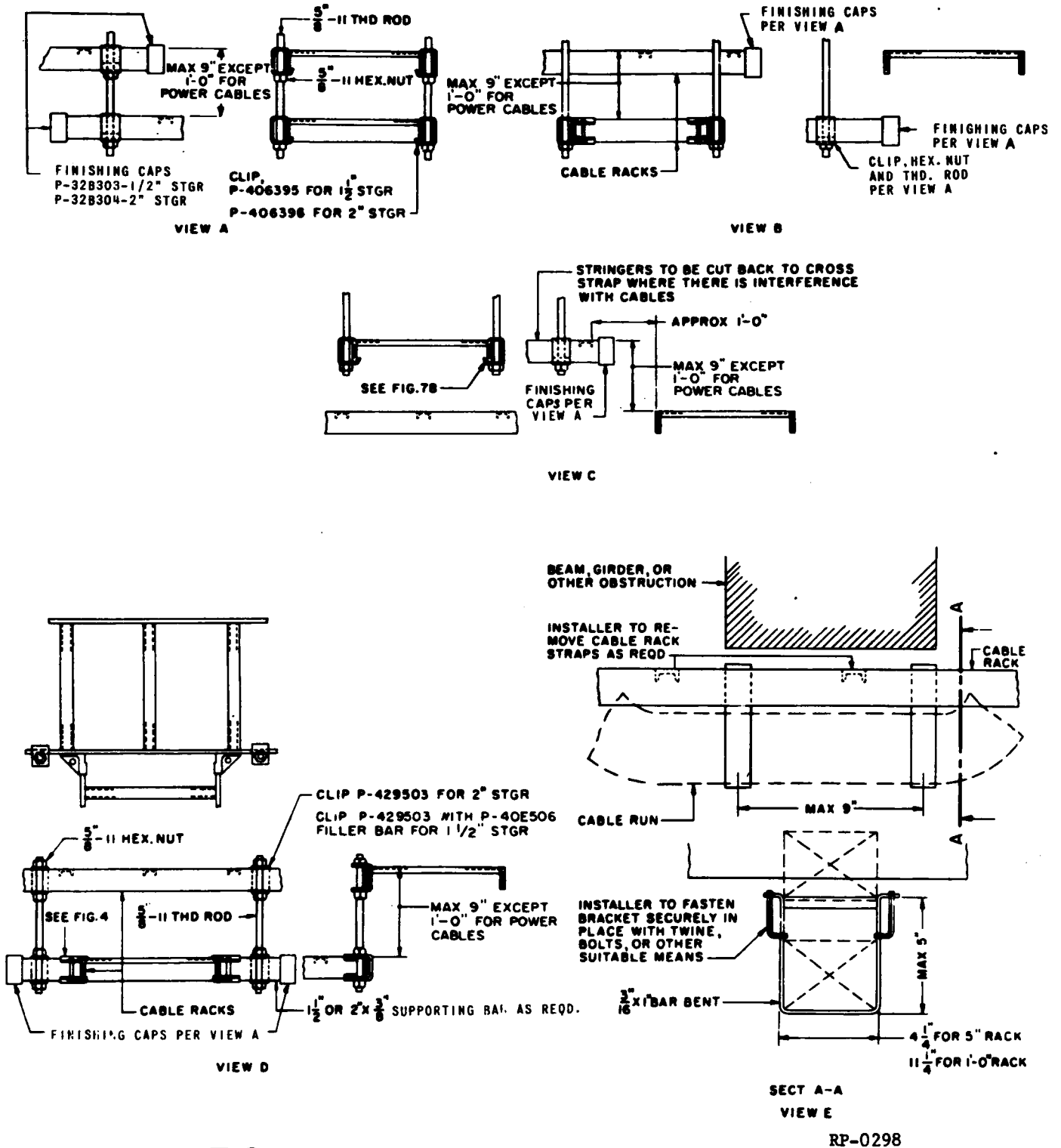


FIG. 39 SMALL VERTICAL OFFSETS IN HORIZONTAL RACKS
(PAR. 2.5)
(BSP 800-614-157, Fig. 39)

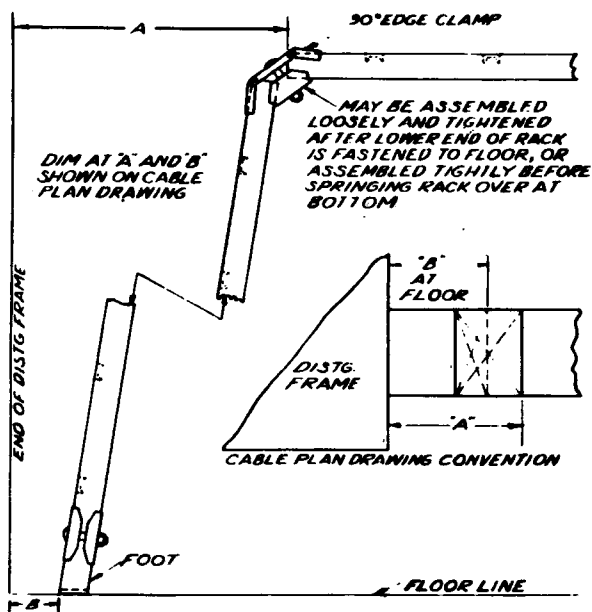


FIG. 39A SLOPING RACK AT END OF DISTRIBUTING FRAME (PAR. 2.3)

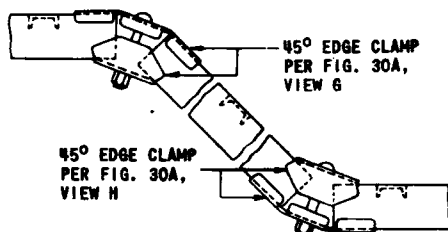


FIG. 40 OFFSET GREATER THAN 9" IN PARALLEL PLANES USING 45-DEGREE EDGE CLAMPS - LADDER-TYPE CABLE RACKS (PAR. 3.5) (BSP 800-614-157, Fig. 40)

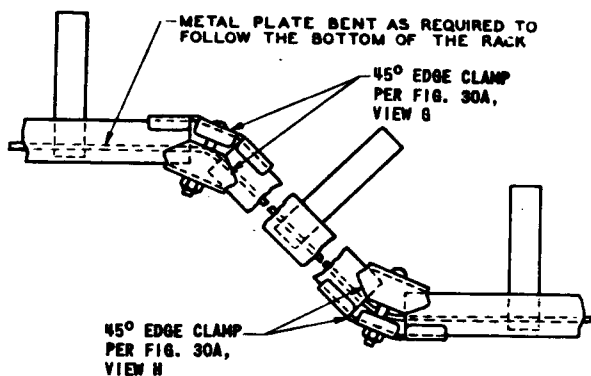


FIG. 40C OFFSET GREATER THAN 9" IN PARALLEL PLANES USING 45-DEGREE EDGE CLAMPS - BAR-TYPE CABLE RACKS (PAR. 2.5) (BSP 800-614-157, Fig. 40C)

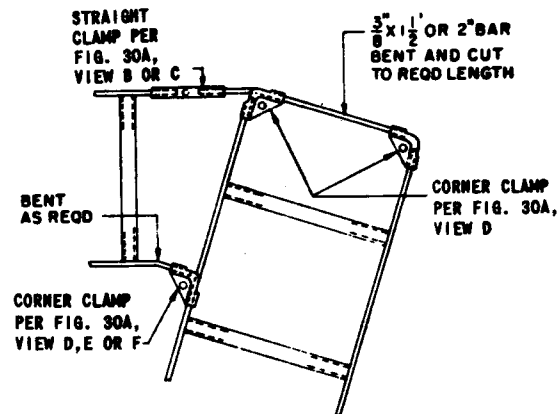


FIG. 41 ACUTE ANGLE TURN IN SAME PLANE (PAR. 2.4) (BSP 800-614-157, Fig. 41)

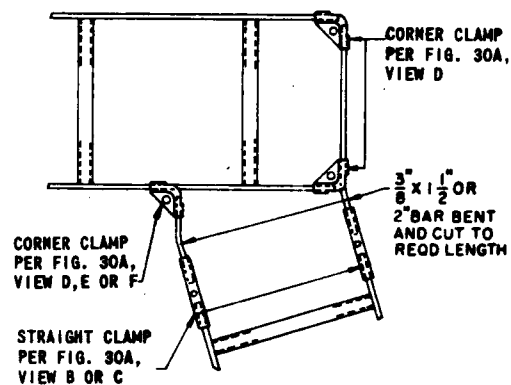


FIG. 42 OBTUSE ANGLE TURN IN SAME PLANE (PAR. 2.4) (BSP 800-614-157, Fig. 42)

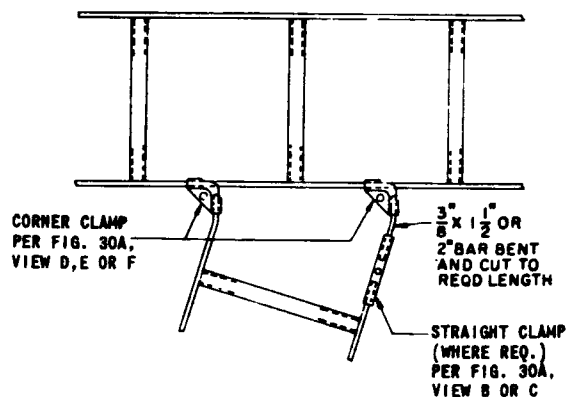


FIG. 43 ACUTE OR OBTUSE ANGLE INTERSECTION (PAR. 2.4) (BSP 800-614-157, Fig. 43)

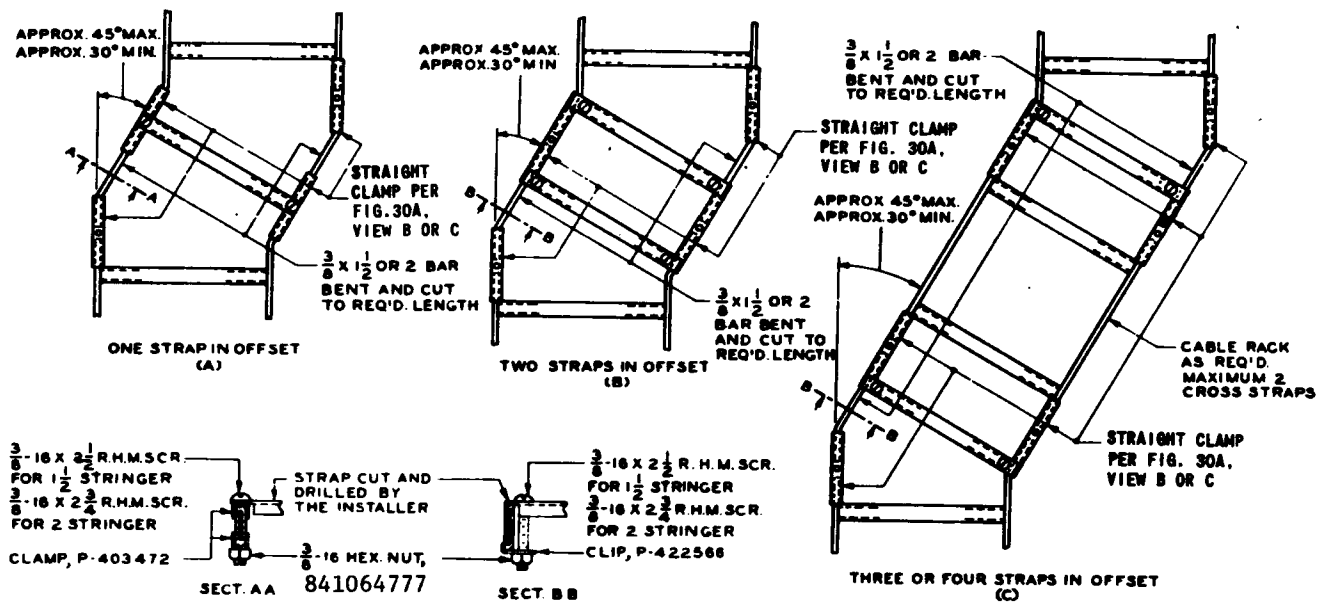


FIG. 52 OFFSETS IN EXPOSED VERTICAL CABLE RACKS
(PAR. 2.5)
(BSP 800-614-157, Fig. 52)

RP-0305

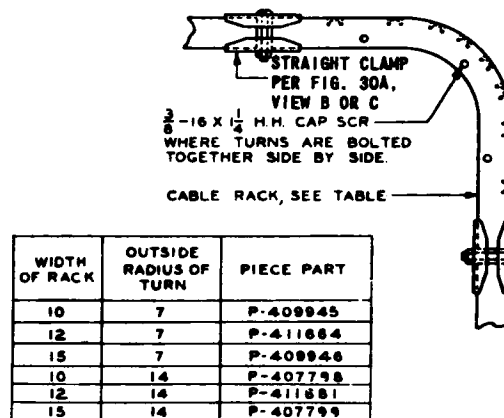
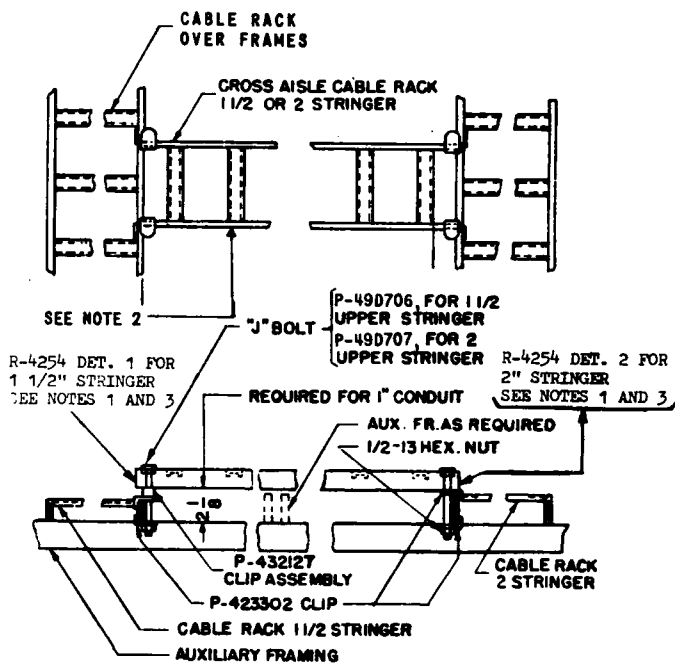


FIG. 53 CABLE RACK TURN FOR POWER CABLE RACKS
(PAR. 4)
(BSP 800-614-157, Fig. 53)

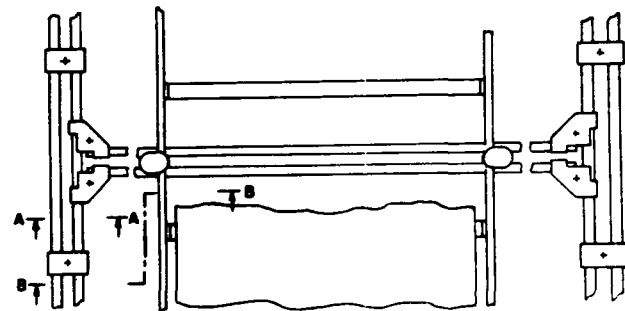
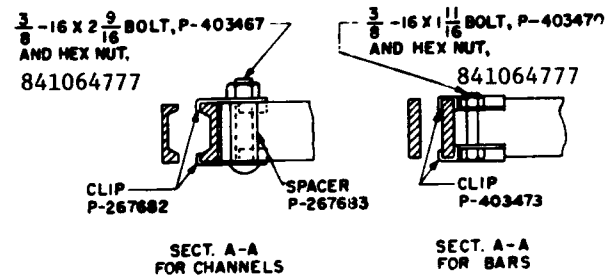
RP-0306



NOTES:

1. THE STRINGERS ON THE CROSS CABLE RACK SHOULD OVERLAP THE CABLE RACK OVER THE FRAMES SUFFICIENTLY TO BE AT LEAST FLUSH WITH THE INSIDE SURFACE OF STRINGERS ON THE CABLE RACKS OVER THE FRAMES BUT NOT ENOUGH TO INTERFERE WITH THE CABLES ON THE CABLE RACK.
2. CUT ALL CROSS-AISLE CABLE RACKS WITHOUT REGARD TO THE LOCATION OF CROSS STRAPS. HOWEVER, CROSS STRAPS SHALL NOT INTERFERE WITH THE ASSEMBLY OF J-BOLTS. ANY CABLE RACK LONGER THAN 12" SHALL HAVE AT LEAST 2 CROSS STRAPS.
3. THE ENDS OF THE CABLE RACK STRINGERS SHALL BE COVERED WITH A PREFORMED PVC END COVER R-4254. DET. 1 FOR 1 1/2" STRINGERS AND DET. 2 FOR 2" STRINGERS. INSTALL PRIOR TO ASSEMBLY OF RACK.

FIG. 54 RP-0307
CROSS-AISLE CABLE RACKS RUN
NON-CONTINUOUSLY OVER AISLES
AT HIGHER LEVEL THAN CABLE
RACKS OVER THE FRAME
(PAR. 3)
(BSP 800-614-157, Fig. 54)



$\frac{1}{2}$ - 13 J BOLT AND HEX. NUT

CABLE RACK STRG. SIZE	J BOLT	
	PLAIN	SPANNER
1 1/2	P-49D706	P-420915
2	P-49D707	P-420916

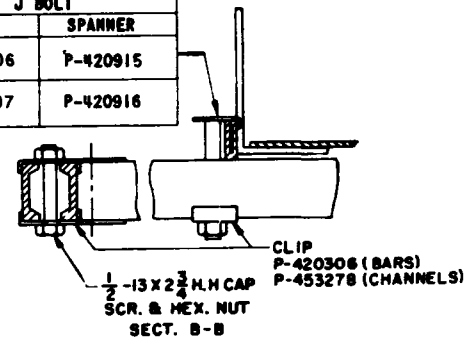
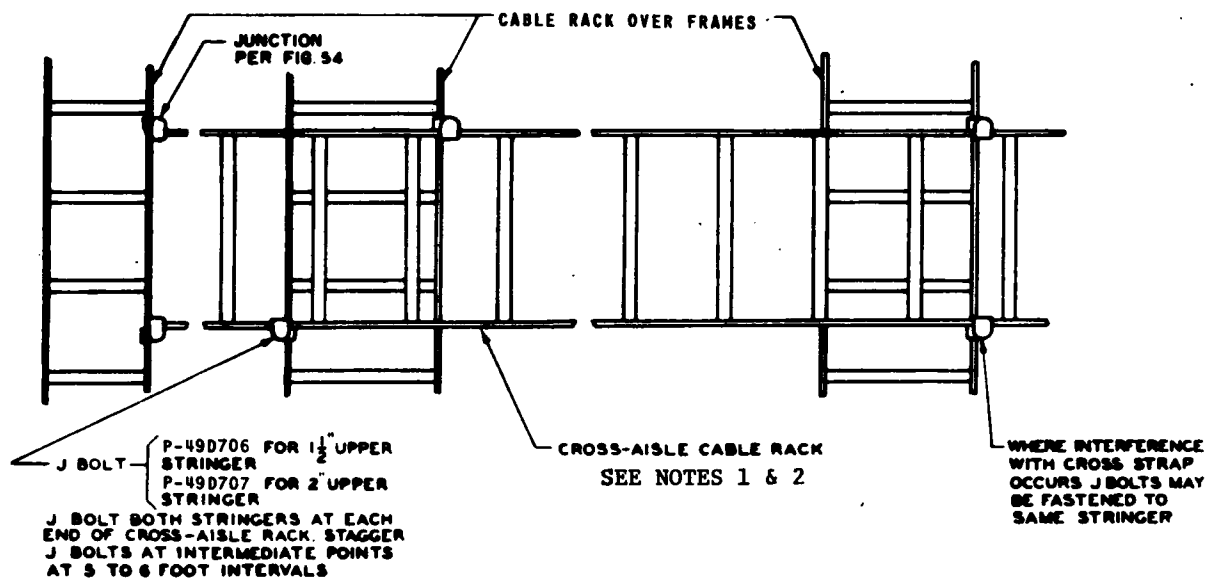


FIG. 54E RP-0308
BAR-TYPE CROSS-AISLE CABLE
RACK SUPPORTED BY AUXILIARY
FRAMING WHERE A ROW OF
FRAMES IS OMITTED
(PAR. 3)
(BSP 800-614-157, Fig. 54E)



NOTE 1: THE ENDS OF THE CABLE RACK STRINGERS SHALL BE COVERED WITH A PREFORMED PVC END COVER R-4254. DET. 1 FOR 1 1/2" STRINGERS AND DET. 2 FOR 2" STRINGERS. INSTALL PRIOR TO ASSEMBLY OF RACK.

NOTE 2: Cable rack splice shall be avoided within area of fluorescent fixture.

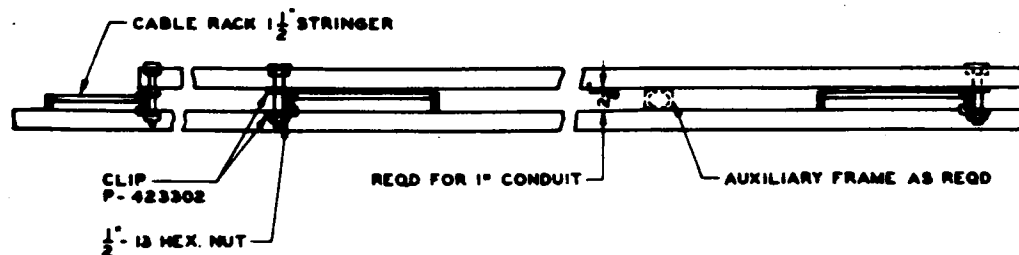


FIG. 54F

CROSS-AISLE CABLE RACKS RUN CONTINUOUSLY AT HIGHER LEVEL THAN CABLE RACKS OVER THE FRAME (PAR. 3)
(BSP 800-614-157, Fig. 54F)

RP-0309

PIECE PART	ASSEMBLY	STANDARD LENGTH
P-263000	THREE BRACKET	2-1 1/2
P-263002	TWO BRACKET	1-0

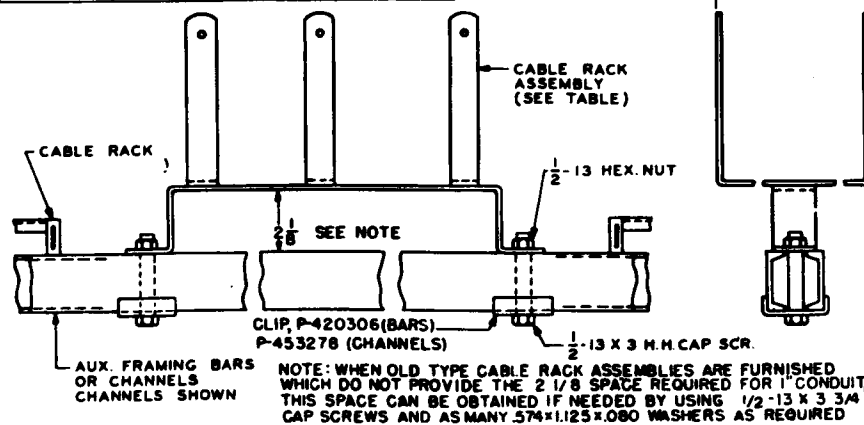


FIG. 55

CABLE RACKS WHERE CABLE RUN IS NOT EXCEPTIONALLY HEAVY (PAR. 3)
(BSP 800-614-157, Fig. 55)

RP-0310

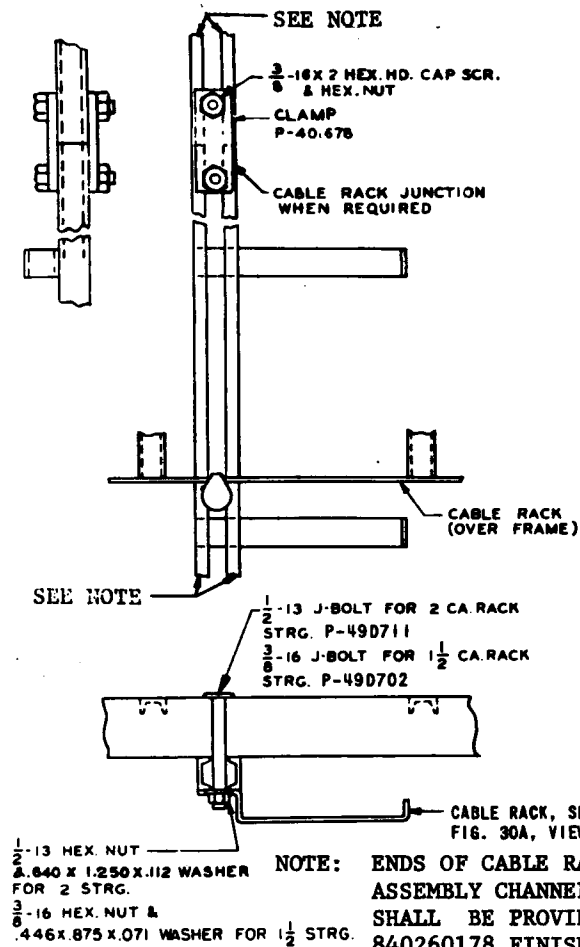


FIG. 56 CABLE RACKS FOR POWER CABLES WITHOUT MAIN-AISLE OR END-AISLE CABLE RACKS (PAR. 4) (BSP 800-614-157, Fig. 56) A&M only-replaced by Fig. 56B

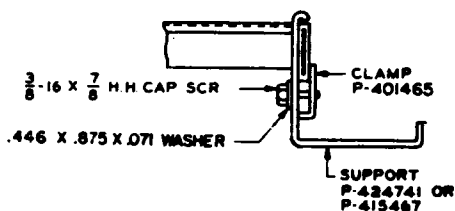
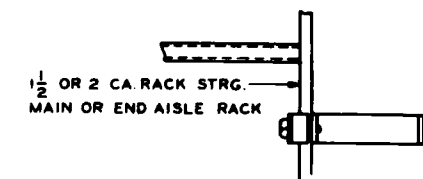


FIG. 57 POWER CABLE BRACKETS ATTACHED TO LADDER-TYPE CABLE RACKS-A&M only - replaced (PAR. 4) by Fig. 57F (BSP 800-614-157, Fig. 57)

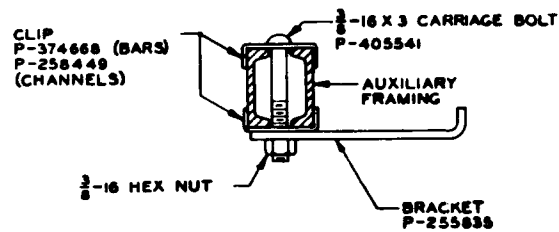


FIG. 57A POWER CABLE BRACKET ATTACHED TO AUXILIARY FRAMING A&M Only- (PAR. 4) replaced by Fig. 57G (BSP 800-614-157, Fig. 57A)

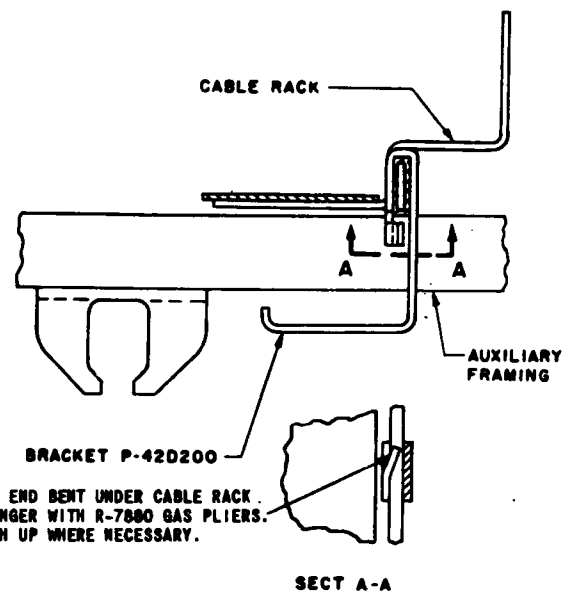


FIG. 57E POWER CABLE BRACKET ATTACHED TO BAR-TYPE OVER-AISLE CABLE RACK (PAR. 4) (BSP 800-614-157, Fig. 57E)

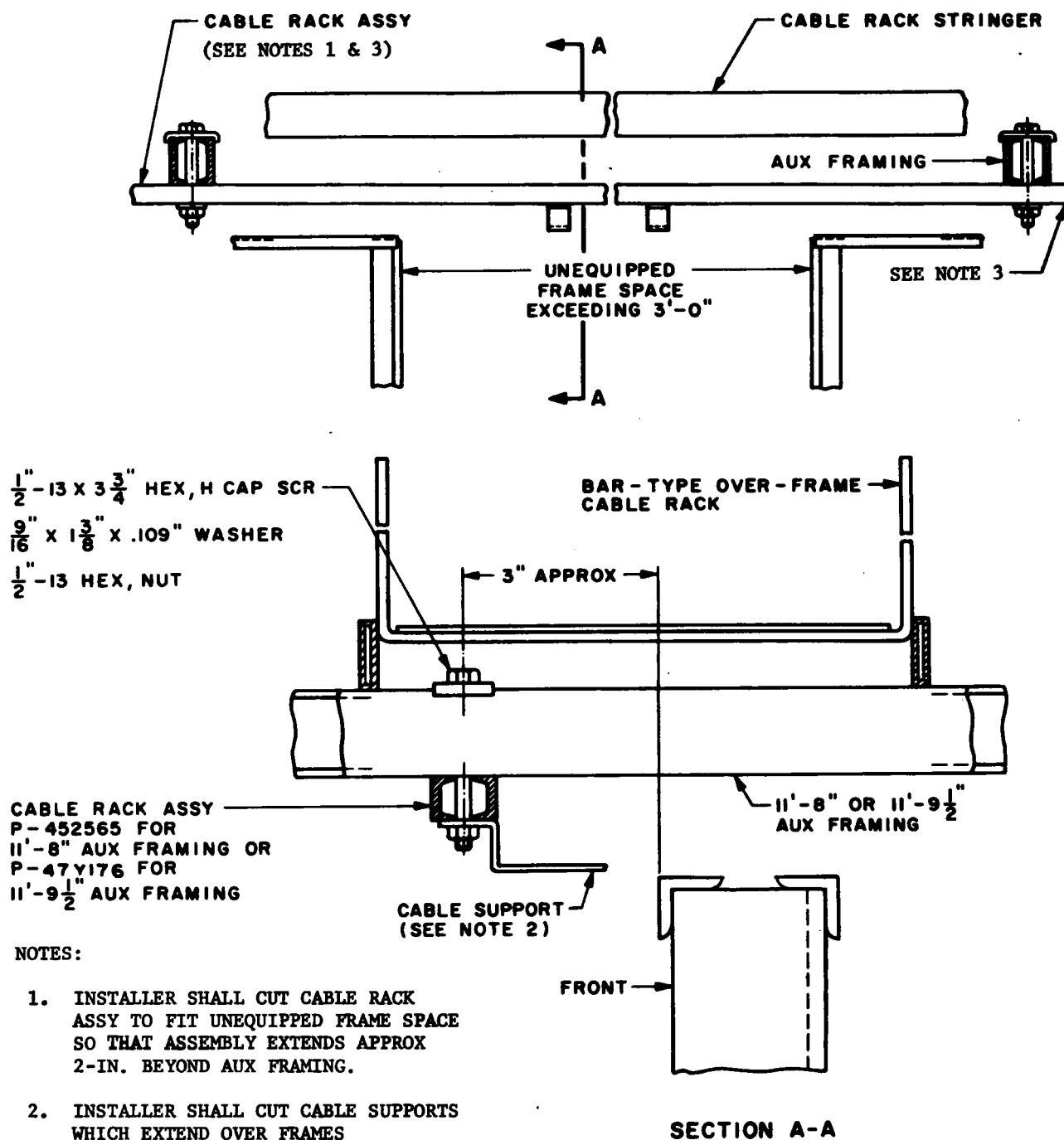
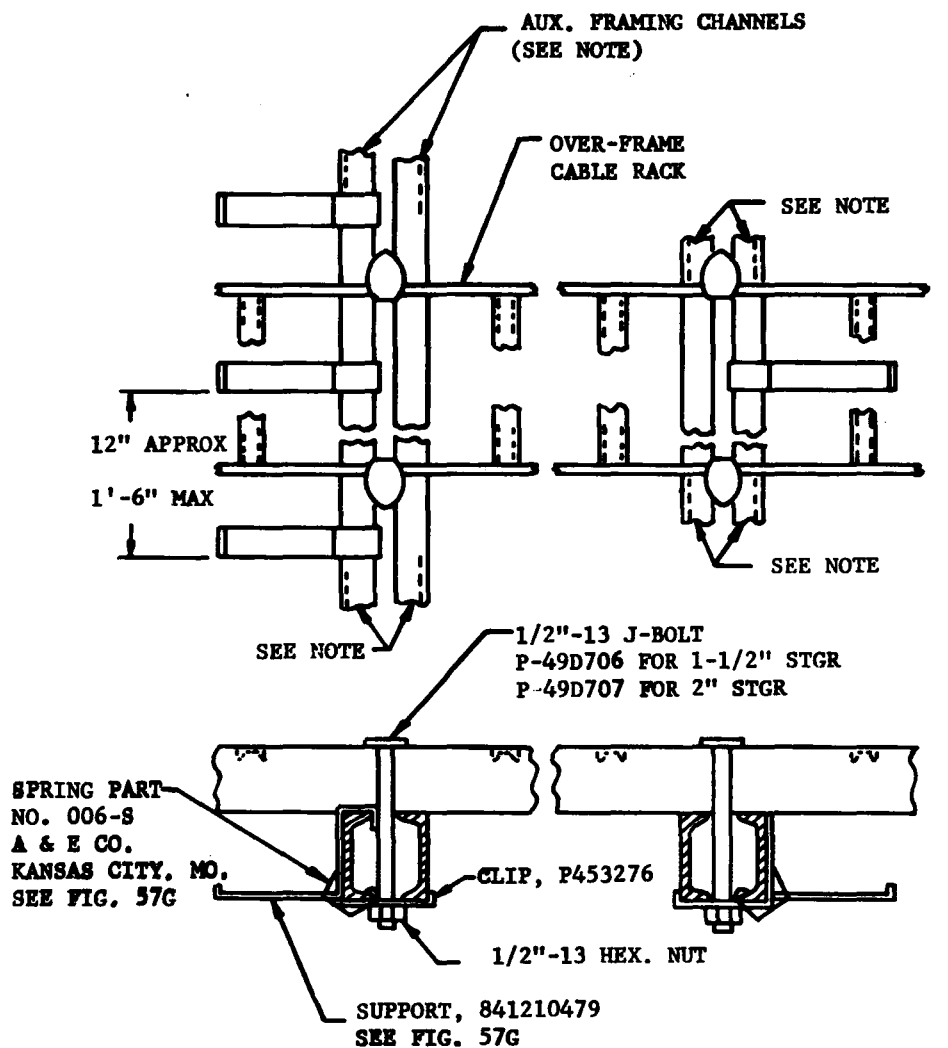


FIG. 56A

CABLE RACK FOR SUPPORTING FRAME LINE POWER FEEDERS WHERE
INTERMEDIATE FRAMES ARE OMITTED AND GAP EXCEEDS 3'-0" -
11'-9 1/2" AUXILIARY FRAMING
(PAR. 4, Note 5)
(BSP 800-614-157, Fig. 56A)
A & M ONLY - REPLACED BY FIG. 56C

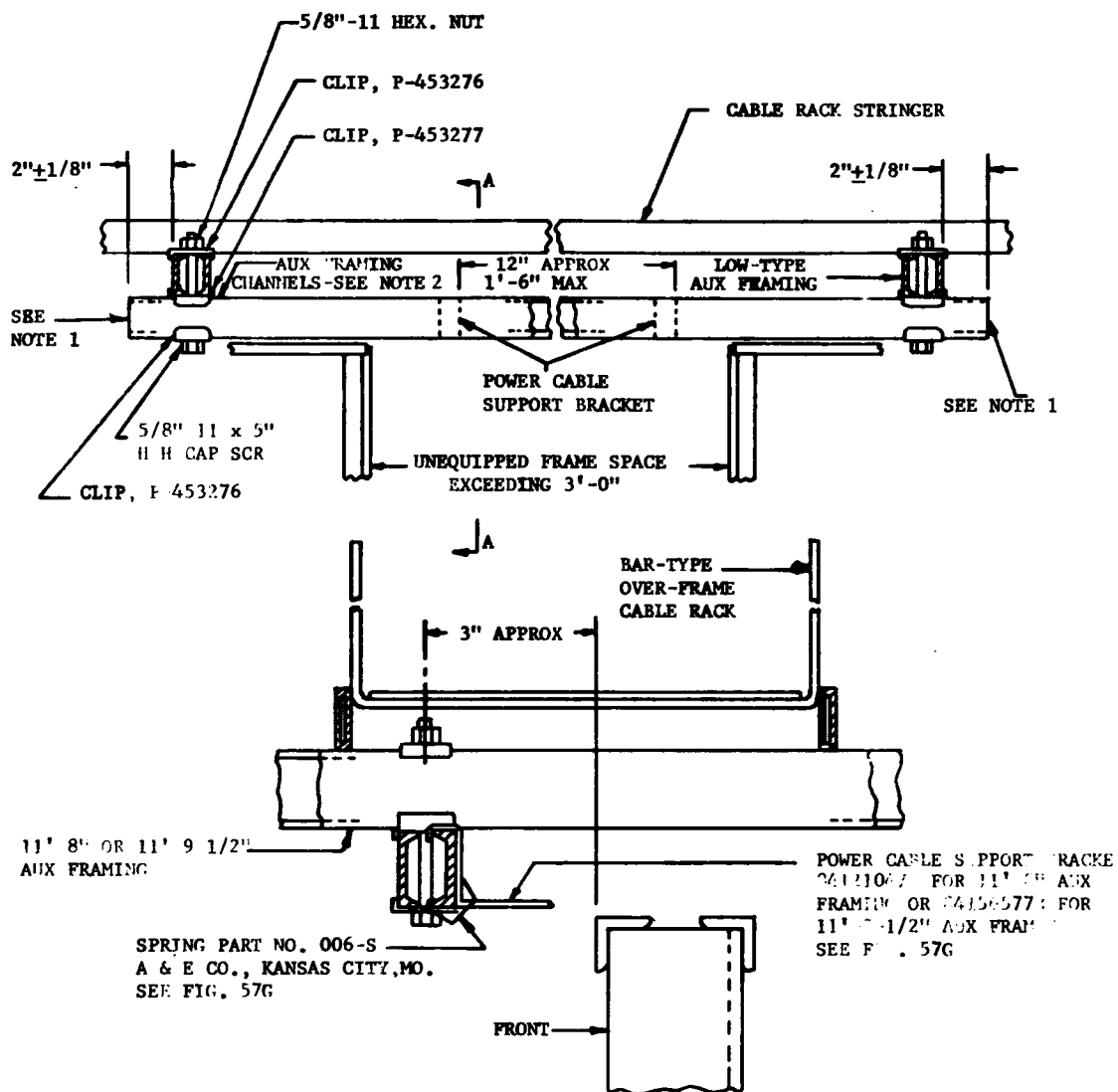
RP-0315



NOTE: END OF AUX FRAMING CHANNELS (FOR POWER CABLE SUPPORT BRACKETS) SHALL BE CLOSED WITH FINISHING CLIPS PER BSP 800-614-155, FIG. 10.

RP-0878

FIG. **56B** POWER CABLE SUPPORT BRACKET FOR POWER CABLES WITHOUT MAIN-AISLE OR END-AISLE CABLE RACK
(PAR. 4, NOTE 7)
(BSP 800-614-157, FIG. 56B)



NOTES:

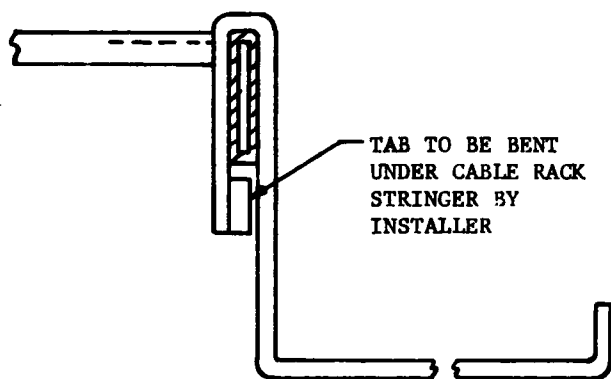
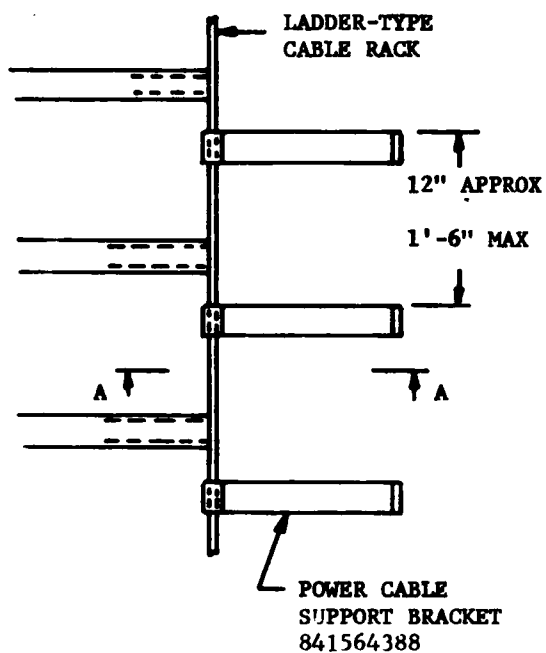
1. ENDS OF AUX FRAMING CHANNELS (FOR POWER CABLE SUPPORT BRACKETS) SHALL BE CLOSED WITH FINISHING CLIPS PER BSP 800-614-155, FIG. 10.
2. AUX FRAMING CHANNELS FOR POWER CABLE SUPPORT BRACKETS SHALL BE SUPPORTED FROM REGULAR AUX FRAMING AT EACH INTERSECTION. SPLICES ARE NOT REQUIRED IF POWER CABLE SUPPORT AUX FRAMING CHANNELS ARE SUPPORTED IN AT LEAST TWO PLACES. OTHERWISE, SPLICE PER BSP 800-614-155, FIG. 10A.

SECTION A-A

RP-0879

FIG. 56C

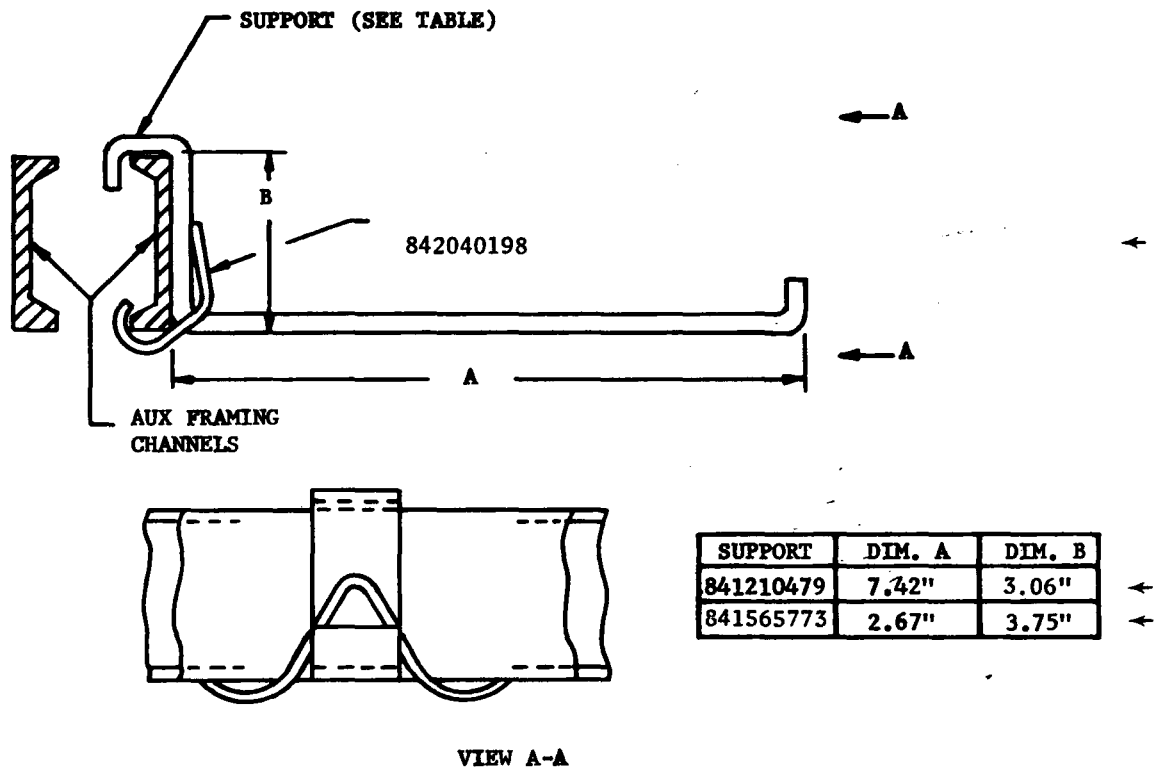
POWER CABLE SUPPORT BRACKET FOR SUPPORTING FRAME LINE POWER FEEDERS WHERE INTERMEDIATE FRAMES ARE OMITTED AND GAP EXCEEDS 3'-0" STEP-BY-STEP, NO. 1 CROSSBAR AND CROSSBAR TANDEM SYSTEMS - 11'-8" OR 11'-9-1/2" AUXILIARY FRAMING. (PAR. 4, NOTE 6) (BSP 800-614-157, Fig. 56C)



SECT. A-A

RP-0880

FIG. **57F** POWER CABLE BRACKET
ATTACHED TO LADDER -
TYPE CABLE RACK
(PAR. 4)
(BSP 800 614-157, FIG. 57F)



RP-0881

→ FIG. **57G** POWER CABLE SUPPORT BRACKET ATTACHED TO AUXILIARY FRAMING WITH RETAINING SPRING (PAR. 4) (BSP 800-614-157, FIG. 57G)

→ Indicates new or changed information.

[Vertical lines at side of paragraphs
indicate requirements.

Engineering Planning Manager
(Installation)

REASON FOR REISSUE

1. Add Paragraph 1.13.
2. Add COMCODE #842040198 to Figure 57G.
3. Change COMCODE 841210479 to 841565773.
4. Change Dimension 2.04" to 3.06".