URGENT INSTRUCTION SUPPLEMENT

CABLE PENETRATIONS - DROP-IN CEILING COVERS - STEEL COVER ORDERING INFORMATION

1. GENERAL

1.1 The purpose of this UIS is to provide Installation with the history and to explain the reason why the floor and wall cable hole cover material is being changed from transite to steel. To inform of a new method of closing cable holes which have inaccessible ceiling plates; floors have thickness in access of 8", and holes for which the modification to a sliding ceiling plate (UIS 15A 2/25/77) is economically not feasible (3 inches or less of cabling space).

NOTE: This UIS does not authorize any job extension for the purpose of replacing existing transite cable hole cover(s) with steel plates(s) or closing cable holes per Optimum Fire Protection requirements.

1.2 The Bell System cable hole assemblies have been accepted throughout the country for over fifty years. However, there are no records of BTL tests establishing their fire resistance capabilities. Accordingly, in 1970, CIE requested AT&T to approve the replacement of transite with steel in order to reduce the Installer's effort in fabricating cable hole penetration closures. In August, 1971, AT&T requested BTL-Whippany to undertake an analytical and experimental program to upgrade the fire policy described in EL 1343. As a result, a group at Whippany was formed and a full scale test facility, equivalent to a Central Office building bay two stories high, was constructed at Chester Laboratories, New Jersey.

1.3 Over the past several years, numerous tests have been conducted to establish minimum standard time requirements for smoke and fire penetration through cable hole assemblies. Tests at Bell Telephone Laboratories are still in progress to determine if any further improvements to the cable hole concept can be made. Based on tests to date, the present cable hole concept is to remain the same.

NOTICE - NOT FOR USE OR DISCLOSURE OUTSIDE THE BELL SYSTEM EXCEPT UNDER WRITTEN AGREEMENT

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1.4 The substitution of steel for transite floor covers will reduce material cost and fabrication time; but more important, it will improve the Installer's environment. When transite material is cut, it produces low levels of airborne asbestos dust particles. Accordingly, the Installer is required to wear a respirator and gloves as protection. Cutting of steel will eliminate this potential health problem and the need for these personnel protection requirements.

1.5 Because of the importance of improving the Installer's environment, a program to replace the transite material used as cable penetration closures with steel plates has been initiated. All orders (requiring material for closing new cable holes) which are shipped after September 1, 1974 will be provided with steel floor and wall plates.

1.6 At the present time, procedures are being established for the Systems Equipment Engineering Department to order out replacing steel covers for existing cable holes whenever they require opening for running additional cables between floors or rooms. Until the steel covers are available through normal ordering routine, the Installer shall order the replacing covers per instructions outlined in PARA. 2.3 of this UIS.

1.7 The new method permits the installation of stirrups and a drop-in ceiling plate from the floor side for cable holes which have inaccessible ceiling plate openings, or the concrete floors are thicker than 8 inches, or when the sliding ceiling plate concept (UIS 15A, Handbook 30, February 25, 1977) is economically not feasible to be installed.

1.8 The drop-in ceiling plate method is applicable to existing cable holes only.

1.9 The drop-in ceiling plate permits the cable hole to be upgraded per requirements outlined in UIS 15A, Handbook 30, dated February 25, 1977.

2. INSTRUCTIONS

2.1 Disregard all figures in Series 15 of Handbook 30 depicting transite material when steel floor and wall closure plates are received on job site. Install steel floor and wall closures in manner similar to transite covers.

2.2 Cut floor and wall steel plates with the R-4355 or R-4355A Nibbler similar to the ceiling steel plates.

2.3 When existing cable hole(s) are opened to run additional cables and the replacing steel cover(s) were not ordered in the job specification, the Installer shall follow or order Options I and II as applicable to meet local job conditions.

Option I Provides procedures for ordering a replacing steel cover piece part(s) from Western Electric Company merchandise. The standard time interval is 6 to 8 weeks from the time the order is originated to the time the covers are received.

NOTE: All Regional SEE Organizations, with the exception of Southern Region order a replacement steel cover(s) automatically if the floor plan drawings do not indicate that the transite covers have been replaced. Accordingly, it is the Installer's reponsibility to notify SEE via a JIM if steel covers have not been received on the job to replace the existing transite covers.

Option II Provides procedures for ordering the replacing steel cover(s) from a local machine shop.

NOTE: If the cut-out in the existing transite cover permits the addition of cable(s) without additional cutting or shaping, and it is within the TELCO's regulatory cable upgrading program, the existing transite cover can be reused for closing the cable hole(s) per requirements outlined in UIS 15A, dated 2/25/77.

2.31 When drop-in ceiling plate method is utilized, the Installer shall follow Option II procedures for ordering the stirrups (Fig. 1) from a local machine shop or Option I ordering the stirrups from MMC.

2.311 Place the stirrup (COMCODE No. 842-042-780) as indicated in Fig. 2 and attach to the cable hole sheathing with 1/4 - 20 X 7/8 H.H. Cap Screw P-133102 from below, using the existing cable hole cover threaded hole in the sheathing.

NOTE: The cable hole floor cover will be retained with the protruded bolt and a 1/4 - 20 Hex Nut (CC841064-751)

2.312 The location of the cable hole stirrups is governed by the cable bundle size and shape. Stirrups shall be strategically located for best possible support of the drop-in plate.

2.313 If then existing hole locations in the sheathing do not suit the stirrup positioning, thru-drill the vertical side of the sheathing using 11/32" dia. drill and attach with 1/4 - 20 X 7/8 H.H. Cap Screw (P-133102) and 1/4 - 20 Hex Nut CC841064-751.

2.314 Where the drop-in plate is small and/or narrow, thru-drill the plate and attach to the stirrup with self-tapping screw or a R-4265 Nylon Cable Tie.

Option I - Ordering Standard Piece Parts from W.E. CO. Merchandise

If sufficient time exists (8-10 weeks) prior to completion date of that respective order number, follow steps A, B, C, D, E, F.

A. Identify the type of sheathings of the existing cable hole(s).

B. Measure the existing transite cable hole cover(s).

C. From Para. 2.4 of this UIS with information from Step A and B, determine the proper cable hole cover piece part.
Para. 2.4A depicts floor cable hole covers that have channel type sheathing.
Para. 2.4B depicts floor cable hole covers that have angle type sheathing.
Para. 2.4C depicts wall, partition and cable duct covers.
Para. 2.4D, E, F and G depicts slot cover under MDF, CDF, IDF and Prot. Fr.

D. If Para. 2.4 does not carry the exact size cable hole cover, order the nearest dimensionlly sized piece part and fabricate on job site.

E. The Installer shall originate a Route "A" JIM requiring authorization by the Operating Company based on GL74-10-033, dated September 20, 1974. The respective cable hole cover piece parts shall be ordered on Installer's Requisition under CODE 8B.

F. The Installer shall provide a marked-up floor plan drawing indicating the respective cable holes that transite cover(s) have been replaced by steel plate(s) to Systems Equipment Engineering for record.

Option II - Ordering Steel Plates from Local Machine Shop

If time does not permit to follow steps covered under Option I (less than 8 weeks), order the replacing steel cover(s) from a local machine shop and follow Steps A, B and C:

A. The Installer shall originate a Route "A" JIM requiring authorization by the Operating Company based on GL74-10-033 dated September 20, 1974.

B. The Installer shall originate a Supplier's Voucher SD-23-321, Code 46-43A for material and fabricating charges incurred by the local machine shop.

C. All floor covers shall be of .112" (HRPOCQ) thick steel. All wall partition and cable duct covers shall be of .062" (HRPOCQ) thick steel. All replacing steel covers shall be cleaned as indicated in Handbook 30, Section 70, and painted with KS-8662 Gray Enamel. Also, follow Step F under Option I.

2.4 A. Floor Cable Hole Covers Having Channel Type Sheathing

NOTE: COMCODE Numbers indicate steel covers stocked at MMC.

COMCODE	Piece Part #	Cover Size	Hole Size
	P-47G350	13.12 X 15.12	0'-10" X 1'
814773511	351	9.12 X 16.12	0'-6" X 1'-1"
	352	19.12 X 21.12	1'-6" X 1'-4"
814773537	353	9.12 X 9.12	0'-6" X 0'-6"
814773545	354	15.12 X 27.12	1'-0" X 2'-0"
	355	15.12 X 32.12	1'-0" X 2'-5"
814773560	356	15.12 X 21.12	1'-0" X 1'-6"
814773578	357	15.12 X 36.12	1'-0" X 2'-9"
814773586	358	15.12 X 39.12	1'-0" X 3'-0"
814773594	359	15.12 X 51.12	1'-0" X 4'-0"
814773602	360	9.12 X 21.12	0'-6" X 1'-6"
	361	9.12 X 27.12	0'-6" X 2'-0"
	362	9.12 X 33.12	0'-6" X 2'-6"
814773636	363	21.12 X 21.12	1'-6" X 1'-6"
814773644	364	21.12 X 27.12	1'-6" X 2'-0"
814773651	365	27.12 X 27.12	2'-0" X 2'-0"
	367	27.12 X 39.12	2'-0" X 3'-0"
814773685	368	27.12 X 51.12	2'-0" X 4'-0"
	369	33.12 X 33.12	2'-6" X 2'-6"
	370	39.12 X 39.12	3'-0" X 3'-0"
	371	39.12 X 51.12	3'-0" X 4'-0"
	P-47G668	25.53 C 51.12 (2)	4'-0" X 4'-0"
	P-45V014	17.12 X 17.12	1'-2" X 1'-2"
	840031785	18.34 X 30.34	1'-0" X 2'-0"
	P-187825	26.12 X 28.12	1'-11" X 2'-1"
	826	26.12 X 36.12	1'-11" X 2'-9"
813025236	P-30B523	15.12 X 15.12	1'-0" X 1'-0"

B. Floor Cable Hole Covers Having Angle Type Sheathing

Piece Part #	Cover Size	Hole Size
P-432550	13.00 X 13.00"	1'-0" X 1'-0"
551	13.00 X 19.00	1'-0" X 1'-6"
552	19.00 X 25.00	1'-6" X 2'-0"
553	19.00 X 35.00	1'-6" X 2'-10"
554	25.00 X 25.00	2'-0" X 2'-0"
555	25.00 X 37.00	2'-0" X 3'-0"
556	11.00 X 16.00	10" X 1'-3"
557	15.00 X 16.00	1'-2" X 1'-3"
558	13.00 X 25.00	1'-0" X 2'-0"
P-171224	17.00 X 19.00	1'-4" X 1'-6"

2.4 Cont. C. Cable Hole Covers for Walls, Partitions and Ducts

COMCODE	Piece Part #	Cover Size	Hole Size
804264496	P-427449	10" X 10"	6" X 6"
804276905	P-427690	16" X 22"	1-0" X 1-6"
804276913	P-427691	22" X 28"	1-6" X 2-0"
804294080	P-429408	16" X 16"	1-0" X 1-0"
804294171	P-429417	22" X 22"	1-6" X 1-6"
804322998	P-432299	28" X 28"	2-0" X 2-0"
804323004	P-432300	28" X 34"	2-0" X 2-6"
814012761	P-40A276	28" X 40"	2-0" X 3-0"
814012779	P-40A277	16" X 28"	1-0" X 2-0"
814028304	P-40B830	16" X 34"	1-0" X 2-6"
814028312	P-40B831	22" X 34"	1-6" X 2-6"
814050258	P-40E025	12" X 12"	6" X 6"
814050026	026	18" X 18"	1-0" X 1-0"
814050274	027	18" X 24"	1-0" X 1-6"
814050282	028	24" X 24"	1-6" X 1-6"
814050290	029	24" X 30"	2-0" X 2-0"
	030	30" X 30"	2-0" X 2-6"
814050316	031	30" X 36"	2-0" X 2-6"
	032	30" X 42"	2-0" X 3-0"
	033	36" X 36"	2-6" X 2-6"
	034	36" X 42"	2-6" X 3-0"
	035	42" X 42"	3-0" X 3-0"
	P-40E641	34" X 34"	2-6" X 2-6"
	642	34" X 40"	2-6" X 3-0"
	643	40" X 40"	3-0" X 3-0"

D. Covers for 1'-0" Cable Beneath IDF

COMCODE	Piece Part #	Cover Size	Description
804269884	P-426988	6.50" X 15.12"	Intermediate on 6-1/2
	P-432537	5.56" X 15.12"	LT End
	P-432538	4.06" X 15.12"	RT End
	P-258705	8.00" X 15.12"	Intermediate on 8" C
	P-258706	4.56" X 15.12"	RT End
	P-258704	6.56" X 15.12"	LT End

E. Covers for 10" Cable Slot Beneath IDF

P-47G698	6.50" X 13.12"	Intermediate on 6-1/2 C
P-47G700	5.56" X 13.12"	LT End
P-47G701	4.06" X 13.12"	RT End
P-47G699	8.00" X 13.12"	Intermediate on 8" C
P-47G702	6.56" X 13.12"	LT End
P-47G703	4.56" X 13.12"	RT End

F. Covers for 10" Cable Slot Under MDF, CDF or PROT. FR.

COMCODE	Piece Part #	Cover Size	Description
804235273	P-423527	1'-4" X 0'-8"	Intermediate
804235281	P-423528	1'-4" X 0'-3-1/8"	RT End
804235299	P-423529	1'-4" X 0'-5-1/8"	LT End

G. Covers for 6" Cable Slot Under MDF, CDF or PROT. FR.

COMCODE	Piece Part #	Cover Size	Description
814043014	P-40D301	1'-0" X 0'-8"	Intermediate
814043022	P-40D302	1'-0" X 0'-3-1/8"	RT End
	P-40D303	1'-0" X 0'-5-1/8"	LT End

2.5 The above piece parts listed in PARA. 2.4 A-G have standard hole locations based on standard sheathings. They may or may not match the hole locations in the existing sheathings. When this occurs, punch additional holes using the Perforating Punch R-2922 or drill 7/16"clear holes with an electric drill. When it is necessary to order an oversized cover, cut the cover approximately flush or under with the sheathing, using the R-4355 or R-4355A Nibbler.

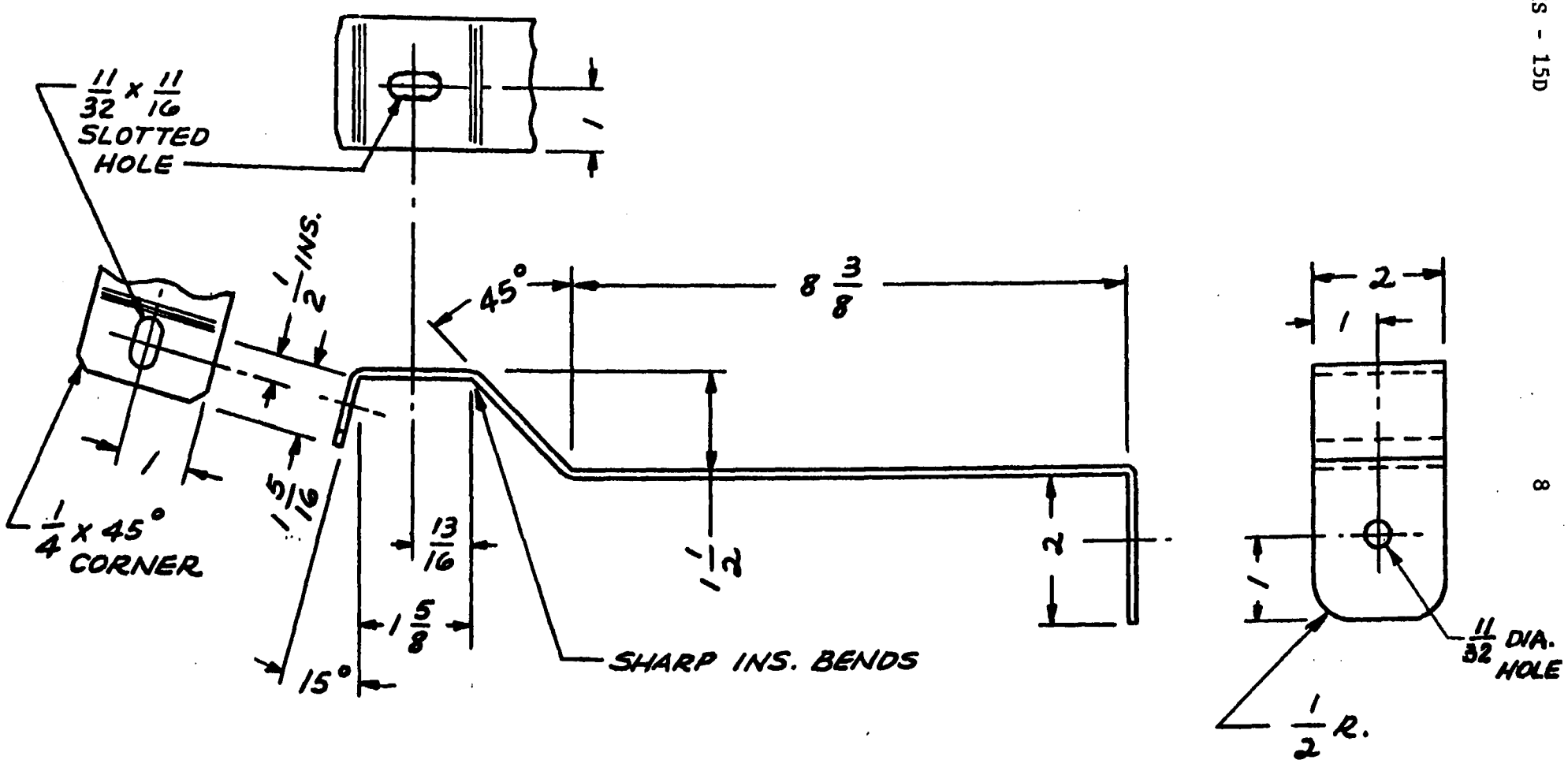
2.6 The replaced transite wall and floor covers are not to be cut-up or in any way reduced in size prior to disposal via the local scavanger service.

Indicates additional information

Engineering Planning Manager
Common Installation Engineering

Reason for Reissue:
1. Add information that the drop-in ceiling plate stirrups can be ordered from MMC.
2. Add note in Pars 2.3; "Installer must notify SEE if steel covers have not been received on job".
3. Add Note in Para 2.4 COMCODE Numbers indicate steel covers stocked at MMC.

FIGURE 1



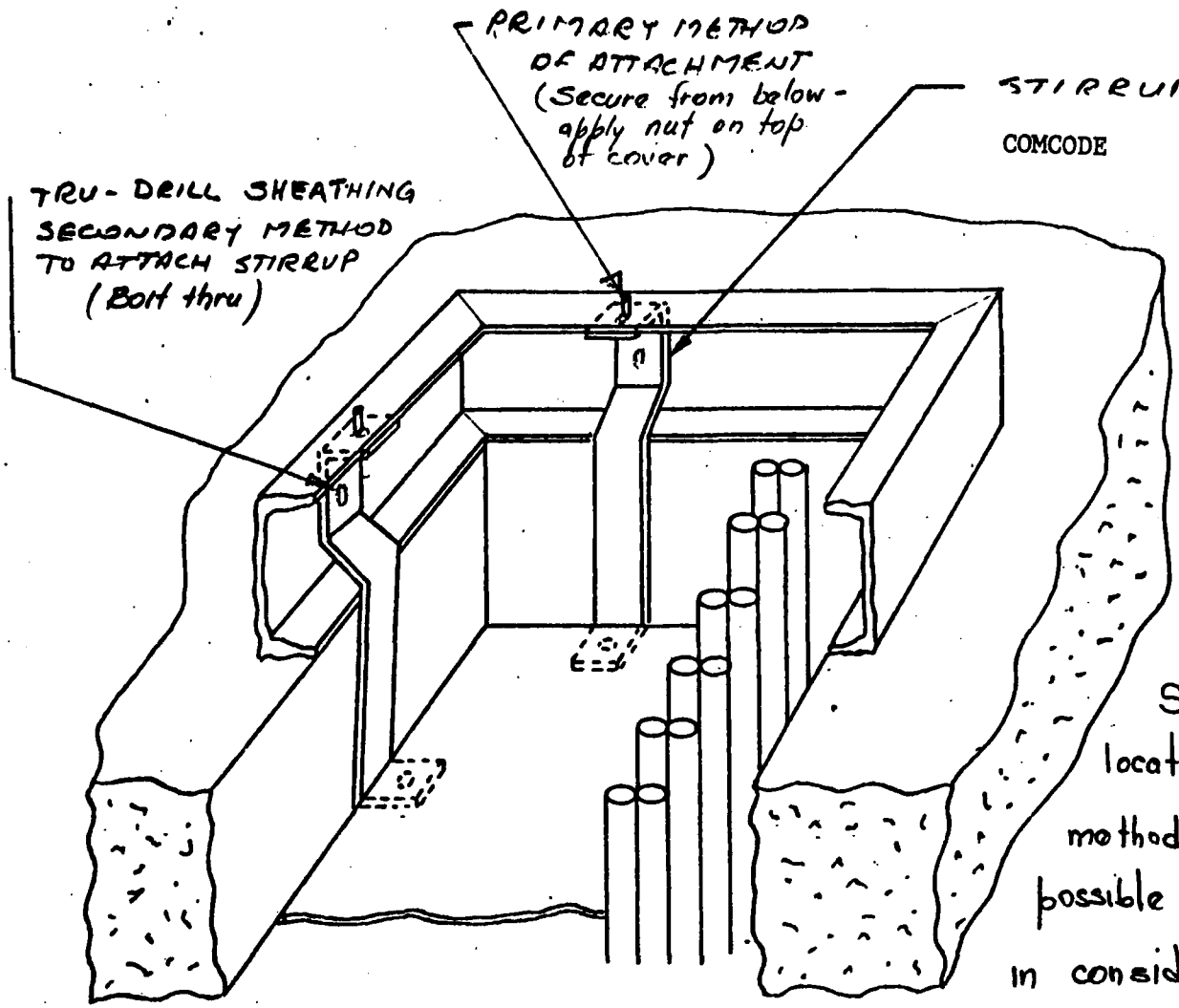
1/8 x 2 C.R. STEEL

525 A. FINISH GRAY

(5301 GRAY BRUSHING ENAMEL)

STIRRUP - CABLE HOLE DROP-IN PLATE

COMCODE 842-042-780



TYPICAL

STIRRUP SUPPORT FOR DROP-IN PLATE

Stirrups shall be strategically located - using *primary* &/or *secondary* method of attachment - for best possible support of the drop-in plate in consideration of the plate as cut to reasonably fit the hole interrior and cable bundle configuration.