STOCKLIST

AB GR	AC QTY. PER GR	AD CODE	AE DESCRIPTION	AF NOTE	AG	COL. LINE
						101
61,62,70,[illegible]	1	H-253-140	GROUND BAR			
71,[illegible]		DET. 80				105
[illegible]	9	840042100	CABLE SUPPORT			
[illegible]	18	840042100	CABLE SUPPORT			
~~[illegible]~~	~~4~~	~~P-[illegible]~~	~~[illegible] FITTING~~			110
~~[illegible]~~	~~16~~	~~P-[illegible]~~	~~[illegible] FITTING~~			
~~56~~	~~1~~	~~P-[illegible]~~	~~SUPPORT~~			
74	1	P-2[illegible]	SUPPORT			
[illegible]	1	P-[illegible]	CHANNEL (10-0 LONG)			115
[illegible]	1	P-401691	CHANNEL (20-0 LONG)			
63	1	P-448[illegible]	CABLE BRACKET			
~~[illegible]~~	~~5~~	~~P-[illegible]~~	~~CLIP~~			
~~65~~	~~1~~	~~P-274[illegible]~~	~~CLIP~~			120
[illegible]	2	P-3[illegible]				
67	1	840[illegible]473	SUPPORT			
~~[illegible]~~	~~1~~	~~P-[illegible]~~	~~[illegible] SHIELD~~			
~~[illegible]~~	~~10~~	~~P-[illegible]~~				125
~~40~~	~~1~~	~~P-[illegible]~~				
35	3	H-[illegible]-120 GR [illegible]	ANCHOR BOLT ASSEMBLY			
36	5					
61,62	~~4~~ 2	840208795	SELF-DRILL ANCHOR (5/8 BOLT SIZE)	☒		
[illegible]	2	P-407068	"J" BOLT			130
[illegible],61,70,[illegible]	1	P-481702	NAMEPLATE			
[illegible],62,71,[illegible]	1	P-481703	NAMEPLATE			
						135
~~[illegible],70,71~~	~~2~~	~~[illegible]~~	~~PAD~~			
[illegible]		405-807-408	COVER (KS-21852,L-6)			
7 TO 54, [illegible],70,71,	2	P-411719	TAG	4		
						140
~~61,62~~	~~4~~	~~840[illegible]~~	~~TIE~~			
~~67~~	~~8~~	~~P-[illegible]~~	~~THREADED ROD 1/2-13 X 5-0~~			
[illegible]	1	840245211	TIE			
						145
[illegible]	1	[illegible]	KS-16077,L-307 CONNECTOR			
[illegible]	10	103997156	14GC NUMBER PLATE	5		
						150
[illegible],70,71	1	401612590	KS-21500,L-1 PARALLEL CONNECTOR			
4 TO 9	1	[illegible]	KS-16077 L-305 CONNECTOR			
~~[illegible]~~	~~1~~	~~[illegible]~~	~~KS-[illegible], L-309~~ ~~PARALLEL CABLE CONNECTOR~~			155
72	1	999882930	CONNECTOR			
60	2	999380200	3425 SELFORM SHIELD 3/8-16			160
73,74	1					
[illegible]	1	400679217	SELFORIL SHIELD 1/4-20 3415-00200			
~~67~~	~~2~~	~~997212086~~	~~SELFORIL SHIELD 1/2-13~~ ~~3405-00000~~			165
			(SEE COMBINATION ANCHOR DRILL) STAR EXPANSION INDUSTRIES CORP)			
59	1	996798[illegible]	CABLE SUPPORT V2005 FOR 2 INCH PVC PLASTIC CONDUIT FOR ONE 750,000 CM STRANDED CABLE, TYPE RHW, WITH OD OF 1.38 INCHES (O.Z. ELECTRICAL MFG CO)			170
						175
67,68, 70,71	2	400785494	TAP-17 NYLON FASTENER 463250 (US. EXPANSION BOLT CO)			
						180
[illegible]	1	400570016	CABLE SUPPORT GRIP 022-03-008 (THE KELLEMS CO)			
2	1	997719638	GROUND CLAMP AT-6299			
						185
1	1	908142209	GROUND CLAMP 035-71504			
3	1	908142191	035-71499			
4	1	997129749	035-71153-4			
5	1	997126430	035-71153-5			
6	1	996798789	035-71153-6			190
7	1	996798[illegible]	035-71153-7			
8	1	996798795	035-71153-8			
~~9~~	~~1~~	~~[illegible]~~	~~035-71153-9~~			
			(THOMAS & BETTS CO)			
77	1	400[illegible]	WASHER P1062			195
74,77	1		NUT P3006-1420 1/4-20			
~~67,68~~	~~4~~	~~[illegible]~~	~~[illegible] P-[illegible]~~			
~~[illegible]~~	~~1~~	~~[illegible]~~	~~NUT P-1008-1420 1/4-20~~			
~~67,68~~	~~4~~	~~[illegible]~~	~~P-1008-1420 1/4-20~~			
55,57-78	5	997105330	P-1008-1420 1/4-20			200
56,58-79	10	997105330	P-1008-1420 1/4-20			
~~[illegible]~~	~~1~~	~~[illegible]~~	~~P-1008-1420 1/4-20~~			
~~[illegible]~~	~~[illegible]~~	~~[illegible]~~	~~P-4008 1/2-13~~			
~~[illegible]~~	~~1~~	~~[illegible]~~	~~P-4008 1/2-13~~			
[illegible]	[illegible]	[illegible]	[illegible]			205
[illegible]	[illegible]	[illegible]	[illegible]			
			(UNISTRUT CORP)			
						210
~~77~~	~~1~~	~~[illegible]~~	~~SUPPORT~~			
~~77~~	~~1~~	~~[illegible]~~	~~SUPPORT~~			
			~~[illegible]~~			
			~~[illegible] CITY, [illegible]~~			
77	1	[illegible]	[illegible] CLAMP			215
78	1	400[illegible]	[illegible] WASHER			
78	1	400[illegible]	[illegible] WASHER			
77	1	[illegible]	[illegible]			
[illegible]	1	400[illegible]	[illegible], 1" PIPE SIZE			
[illegible],77			(UNISTRUT CORP)			220

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AB GR	AC QTY. PER GR	AD CODE	AE DESCRIPTION		AF NOTE	AG	COL. LINE
10	1	401444400	GROUND CLAMP CONN.	GPL-8			221
11	1	401480010		GPL-9			
12	1	401443609		GPL-10			
~~13~~	~~1~~	~~[illegible]~~		~~GPL-11~~			
14	1	401443627		GPL-12			225
15	1	401443635		GPL-14			
16	1	401443643		GPL-15			
17	1	401443650		GPL-16			
18	1	401443668		GPL-17			
19	1	401443676		GPL-18			230
20	1	401443684		GPL-20			
21	1	401443692		GPL-21			
22	1	401443700		GPL-22			
23	1	401443718		GPL-23			
24	1	401443726		GPL-24			235
25	1	401443734		GPL-26			
26	1	401443742		GPL-27			
27	1	401443759		GPL-28			
28	1	401443767		GPL-29			
29	1	401443775		GPL-30			240
30	1	401443783		GPL-32			
31	1	401443791		GPL-33			
32	1	401443809		GPL-34			
33	1	401443817		GPL-35			
34	1	401443825		GPL-36			245
35	1	401443833		GPL-38			
36	1	401443841		GPL-39			
37	1	401443858		GPL-40			
38	1	401443866		GPL-41			
39	1	401443874		GPL-42			250
40	1	401443882		GPL-44			
41	1	401443890		GPL-45			
42	1	401443908		GPL-46			
43	1	401443916		GPL-47			
44	1	401443924		GPL-48			255
45	1	401443932		GPL-50			
46	1	401443940		GPL-51			
47	1	401443957		GPL-52			
48	1	401443965		GPL-53			
49	1	401443973		GPL-54			260
50	1	401443981		GPL-56			
51	1	401443999		GPL-57			
52	1	401444005		GPL-58			
53	1	401444013		GPL-59			
54	1	401444021		GPL-60			265
				(PENN UNION)			
78	3	900523564	POWDER DRIVEN PIN				
79	5	900523564					
81, 82	6	900523556					270
81, 82,85,86	2	900523549					
80	2	900523580	POWDER DRIVEN STUD				
83, 84	1	900523572					
80	2	402698771	ADAPTER				
							275
~~87~~	~~1~~	~~900407535~~	~~SPRING [illegible]~~				
87	1	840640198	SPRING				
74	1	840059892		PHM .250-20 X 1	☒		
77	1	801462987		HH CAP .250-20 X 1	☒		280
~~72~~	~~2~~	~~P-[illegible]~~		~~HH CAP .250-20 X 1/2~~	☒		
65, 66,72	2	P-125616	SCREW —	HH CAP .250-20 X 3/4	☒		
~~67,68~~	~~4~~	~~P-146298~~		~~HH CAP .250-20 X 1~~	☒		
~~55,57~~	~~6~~	~~P-100102~~		~~HH CAP .250-20 X 1 1/2~~	☒		
~~56,58~~	~~10~~	~~P-100102~~		~~HH CAP .250-20 X 1 1/2~~	☒		285
55,57-78	5	P-210235		FHM .250-20 X 1	☒		
56,58-79	10	P-210235		FHM .250-20 X 1	☒		
69	1	P-210532		HH CAP .250-20 X 2 3/4	☒		
~~66~~	~~2~~	~~P-210532~~		~~HH CAP .250-20 X 2 3/4~~	☒		
[illegible], 82	2	P-423943		HH CAP .750-10 X 4	☒		290
75, 76	1	P-108511		HH CAP .375-16 X 3/4	☒		
[illegible]	2	P-127312		HH CAP .375-16 X 1	☒		
72	2	P-182995	WASHER LOCK	.250	☒		
[illegible]	4	P-284463		.401 X .765 X .058	☒		
72	2	P-109896		.276 X .745 X .056	☒		295
[illegible]	1	P-108898	WASHER — PLAIN	.276 X .745 X .056	☒		
~~66~~	~~6~~	~~P-108898~~		~~.276 X .745 X .056~~	☒		
~~67~~	~~4~~	~~P-108898~~		~~.276 X .745 X .056~~	☒		
~~55,57~~	~~5~~	~~P-402190~~		~~.401 X1.015 X .058~~	☒		
~~56,58~~	~~10~~	~~P-402190~~		~~.401 X1.015 X .058~~	☒		300
80	2	P-422190		.404 X1.140 X .130	☒		
~~67~~	~~2~~	~~P-402130~~		~~.588 X1.250 X .083~~	☒		
[illegible], 82	50	P-210104		.828 X1.469 X .083	☒		
~~61,62~~	~~8~~	~~P-[illegible]~~		~~.438~~	☒		
73,76	1	P-428189		.401 X1.089 X.086	☒		305
[illegible],70,71,	1-8	P-459969		.8125 X 2.000 X .063	☒		
[illegible]	2	840084777	NUT, HEX —	.375-16	☒		
~~66~~	~~1~~	~~P-[illegible]~~		~~HEX .375-16~~	☒		
~~67~~	~~6~~	~~P-[illegible]~~		~~HEX .500-13~~	☒		310
~~55,56~~	~~6~~	~~840084777~~		~~HEX 3/8-16~~	☒		
69	1	P-220758		HEX .250-20	☒		
~~66~~	~~5~~	~~P-220758~~		~~HEX .250-20~~	☒		
72	2	P-220756		HEX .250-20	☒		
66	1	P-220758		HEX .250-20	☒		315
[illegible],70,71, [illegible]	4	P-230461		.750-10	☒		
88	1	840084780		HEX .250-20	☒		
~~64~~	~~1~~	~~P-[illegible]~~	~~CARRIAGE BOLT~~	~~.375-16 X 3~~	☒		
							320
~~61,62~~	~~6~~	~~840125897~~	~~STUD~~	~~3/8-16 X 3 1/2~~	☒		
86	1	900007735	CABLE CLAMP 3/8-7 NA				
88	1	900083580	POWER DRIVE STUD [illegible]-11-270-1[illegible]				325
61, 62	2	845402192	ADAPTER		☒		
61, 62	2	P-410244	INSULATOR 5/8-11X13/4		☒		
61, 62	2	P-426436	HHCAP SCREW 5/8 SIZE		☒		330
61, 62	2	P-425153	WASHER		☒		

TABLE B

WIRE OR CABLE SIZE	PIPE SIZE (INCHES)								
	1/2-3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4
6 SOL-4STR	GR 10	GR 15	GR 20	GR 25	GR 30	GR 35	GR 40	GR 45	GR 50
4 SOL-00STR	GR 11	GR 16	GR 21	GR 26	GR 31	GR 36	GR 41	GR 46	GR 51
00STR-250 MCM	GR 12	GR 17	GR 22	GR 27	GR 32	GR 37	GR 42	GR 47	GR 52
300 MCM-500 MCM G-LINE REPL. BY G-44	GR 13	GR 18	GR 23	GR 28	GR 33	GR 38	GR 43	GR 48	GR 53
750 MCM	GR 14	GR 19	GR 24	GR 29	GR 34	GR 39	GR 44	GR 49	GR 54

TABLE A

COL. A GROUP	B STATUS	C [illegible]	D MATERIAL FOR	E [illegible]	F NOTES
1 2			CONDUIT GROUND CLAMPS TO PERMIT GROUNDING CONTINUITY: 3/4 TO 1; 1/2 TO 3	FURNISHED AS REQUIRED FOR CONDUIT RUNS	
3 TO 9	MFR DISC	AS REQD	PIPE GROUND CLAMP: 1/2 [illegible] 3/4 ... [illegible]	FURNISH ONE CLAMP FOR EACH VERTICAL RISER TO BE TERMINATED AT WATER PIPE	SEE BSP 802-001-190 FIG. 2 SK. A,B & C
10 TO 54	G-6 ADD	AS REQD	PIPE GROUND CLAMP	SEE TABLE B ON THIS DRAWING	[illegible] NOTE 70 SEE BSP 802-001-190 FIG. 2 SK. D
55		AS REQD	SUPPORTING MAIN VERTICAL GROUND RISER TO WALL OR COLUMN USING 10-0 LONG UNISTRUT.	FURNISH ONE SUPPORT FOR EVERY 10-0 OF VERTICAL RISER ORDERED.	SEE BSP-802-001-192 NOTE 60
56		AS REQD	SUPPORTING MAIN VERTICAL GROUND RISER TO WALL OR COLUMN USING 20-0 LONG UNISTRUT.	FURNISH ONE SUPPORT FOR EVERY 20-0 OF VERTICAL RISER ORDERED.	
57	MFR DISC	AS REQD	SUPPORTING MAIN VERTICAL GROUND RISER TO WALL OR COLUMN IN HORIZONTAL POSITION USING 10-0 LONG UNISTRUT	FURNISH ONE SUPPORT FOR EVERY 10-0 OF HORIZONTAL RISER ORDERED	SEE GR 55
58	MFR DISC	AS REQD	SUPPORTING MAIN VERTICAL GROUND RISER TO WALL OR COLUMN IN HORIZONTAL POSITION USING 20-0 LONG UNISTRUT.	FURNISH ONE SUPPORT FOR EVERY 20'-0" OF HORIZONTAL RISER ORDERED.	SEE GR 56
59		AS REQD	SUPPORTING MAIN VERTICAL GROUND RISER AT SLEEVE AT FLOOR LEVEL.	FURNISH ONE SUPPORT, FOR EVERY 40-0 OF VERTICAL RISER ORDERED OR AT EVERY SECOND FLOOR.	SEE BSP-802-001-192 NOTE 60
60		AS REQD	SUPPORTING MAIN VERTICAL GROUND RISER AT SLEEVE AT CEILING LEVEL.		
61		1	ONE CENTRAL OFFICE GROUND BAR, GROUND BAR NAMEPLATE AND SUPPORTS. FIRST RISER.	FURNISH ONE PER FLOOR WHEN ONE MAIN VERTICAL GROUND RISER IS USED, SEE NOTE 60	SEE BSP 800-614-[illegible] FIGS 56,57A AND 57E SEE BSP 802-001-190 FIG. 5,6 & 7 NOTE 60
62		1	ONE SUPPLEMENTARY CENTRAL OFFICE GROUND BAR, GROUND BAR NAMEPLATE AND SUPPORTS, RISER IN ADDITION TO FIRST	FURNISH ONE PER FLOOR WHEN SECOND MAIN VERTICAL GROUND RISER IS USED.	
63		AS REQD	SUPPORTING MAIN HORIZONTAL GROUND FEEDER FROM LADDER TYPE CABLE RACK (1 1/2 INCH OR 2 INCH STRINGER) OR AUXILIARY FRAMING.	PROVIDE SUPPORTS ON APPROX 1-6 CENTERS.	FOR OTHER SUPPORTS SEE BSP 800-614-197 & BSP 802-001-192
64	MFR DISC	AS REQD	SUPPORTING MAIN HORIZONTAL GROUND FEEDER FROM AUXILIARY FRAMING BARS	FURNISH ONE SUPPORT ON THE BASIS OF 1-7 1/2 SPACING BETWEEN SUPPORTS	FOR OTHER SUPPORTS SEE BSP 800-100-197 & BSP 802-001-192
65		AS REQD	HORIZONTAL RUNS ATTACHED TO WALLS.	PROVIDE SUPPORTS ON APPROX 1-6 CENTERS.	FOR VERT SUPTS USE GR 55,56 NOTE 60
66		AS REQD	HORIZONTAL RUNS ATTACHED TO CEILING	PROVIDE SUPPORTS ON APPROX 1-6 CENTERS.	NOTE 60
67	MFR DISC	AS REQD	HORIZONTAL RUNS HUNG FROM CEILING USING 1/2-13 THREADED ROD.	INCLUDES ALL MATERIAL REQUIRED FOR 10-0 LG OF UNISTRUT RUN.	REPL BY GR 77
68	MFR DISC	AS REQD	HORIZONTAL RUNS FASTENED TO UNISTRUT CHANNEL. (NOT FOR USE IN EQUIPMENT AREAS)		REPL BY GR77
69		AS REQD	HORIZONTAL RUNS FASTENED UNDER AND IN LINE WITH HIGH TYPE AUX FRMG IN UN-EQUIPPED AREAS.	PROVIDES SUPPORTS ON APPROX 1-6 CENTERS.	
70		AS REQD	ONE CENTRAL OFFICE GROUND BAR, GROUND BAR NAMEPLATE & SUPPORTS-FIRST RISER.	FURNISH 1 PER FLOOR WHEN 1 MAIN GROUND RISER IS FURNISHED (SEE NOTE 61)	NOTE 60
71		AS REQD	ONE CENTRAL OFFICE GROUND BAR, GROUND BAR NAMEPLATE & SUPPORTS, RISER IN ADDITION TO FIRST	FURNISH 1 PER FLOOR WHEN SECOND VERTICAL GROUND IS USED. (SEE NOTE 61)	NOTE 60
72		1	GROUNDING MATERIAL FOR #6 LEAD TERMINATION	FURNISH ONE FOR EACH BATTERY STAND, DISTR. FRAME, CABINET OR OTHER PERIPHERY MATERIAL REQUIRING #6 GROUND.	SEE BSP 802-001-192 & BSP 802-001-199
73		AS REQ'D	SUPPORTING 00 AWG OR LARGER MAIN HORIZONTAL GROUND FEEDER FROM AUXILIARY FRAMING CHANNELS.	FURNISH SUPPORTS ON APPROX 1-6 CENTERS.	FOR OTHER SUPPORTS SEE B.S.P. 800-614-197 B.S.P. 802-001-192 OR FIELD.
74		AS REQ'D	SUPPORTING MAIN HORIZONTAL GROUND FEEDER FROM CHANNELS (UNISTRUT OR EQUIV)	PROVIDE SUPPORTS ON APPROX 1-6 CENTERS.	68
75		AS REQ'D	SUPPORTING OF 2 1/2" DIA PVC PIPE USED TO CARRY 750 MCM MAIN HORIZ GRD FEEDER SHORT DISTANCES IN NON-EQPT AREAS.	PROVIDE SUPPORTS ON APPROX 5-0 CENTERS.	67
76		AS REQ'D	SUPPORTING OF 3" DIA PVC PIPE USED TO CARRY 750 MCM MAIN HORIZ GRD FEEDER AS REQUIRED IN NON-EQPT AREAS.	PROVIDE SUPPORTS ON APPROX 5-0 CENTERS.	67
77		AS REQ'D	HORIZONTAL RUNS FASTENED TO UNISTRUT CHANNEL.	PROVIDES SUPPORTS ON APPROX 1-6 CENTERS.	68
78		AS REQ'D	SUPPORTING MAIN VERTICAL GROUND RISER TO WALL OR COLUMN USING 10-0 LONG UNISTRUT	FURNISH ONE SUPPORT FOR EVERY 10-0 OF VERTICAL RISER ORDERED.	SEE BSP-802-001-192
79		AS REQ'D	SUPPORTING MAIN VERTICAL GROUND RISER TO WALL OR COLUMN USING 20-0 LONG UNISTRUT.	FURNISH ONE SUPPORT FOR EVERY 20-0 OF VERTICAL RISER ORDERED.	NOTE 69
80		AS REQ'D	SUPPORTING MAIN VERTICAL GROUND RISER AT SLEEVE; AT CEILING LEVEL.	FURNISH ONE SUPPORT FOR EVERY 40-0 OF VERTICAL RISER ORDERED OR AT EVERY SECOND FLOOR.	SEE BSP-802-001-192 NOTE 59
81		1	ONE CENTRAL OFFICE GROUND BAR, GROUND BAR NAMEPLATE AND SUPPORTS. FIRST RISER.	FURNISH ONE PER FLOOR WHEN ONE MAIN VERTICAL GROUND RISER IS USED. (SEE NOTE 60)	SEE BSP 800-614-197 FIGS. 56,57A & 57E SEE BSP 802-001-190 FIGS. 5,6 AND 7
82		1	ONE SUPPLEMENTARY CENTRAL OFFICE GROUND BAR, GROUND BAR NAMEPLATE AND SUPPORTS. RISER IN ADDITION TO FIRST.	FURNISH ONE PER FLOOR WHEN SECOND MAIN VERTICAL GROUND RISER IS USED. (SEE NOTE 60)	NOTE 69
83		AS REQ'D	HORIZONTAL RUNS ATTACHED TO WALLS.	PROVIDE SUPPORTS ON APPROX. 1-6 CENTERS	FOR VERTICAL SUPPORTS SEE G-55,56,69 & 70
84		AS REQ'D	HORIZONTAL RUNS ATTACHED TO CEILING.		
85		AS REQ'D	ONE CENTRAL OFFICE GROUND BAR, GROUND BAR NAME PLATE & SUPPORTS-FIRST RISER.	FURNISH 1 PER FLOOR WHEN MAIN GROUND RISER IS FURNISHED (SEE NOTE 61)	
86		AS REQ'D	ONE CENTRAL OFFICE GROUND BAR, GROUND BAR NAMEPLATE & SUPPORTS, RISER IN ADDITION TO FIRST.	FURNISH 1 PER FLOOR WHEN SECOND VERTICAL GROUND IS USED (SEE NOTE 61)	
87		AS REQ'D	SUPPORTING 00 AWG OR LARGER HORIZONTAL GROUND FEEDER CABLE FROM AUXILIARY FRAMING CHANNEL, [illegible]	PROVIDE SUPPORTS ON APPROX 1-6 CENTERS	FOR OTHER SUPPORTS SEE FIG D
88		AS REQ'D	SUPPORT FOR VERTICAL GROUND WIRE ATTACHED TO WALL OR BLDG COLUMN	PROVIDE SUPPORTS ON APPROX 2-0 CENTERS	

ENGINEERING NOTES (CONTINUATION)

~~64-THE 841210499 CABLE BRACKET PER GROUP 73 REPLACES THE P-259849 SUPPORT ASSOCIATED WITH GROUP 64.~~

65-FIG.C ILLUSTRATES A METHOD OF SUPPORTING A BATTERY STAND FRAMEWORK GROUND LEAD WHEN BUS BARS ARE EMPLOYED AND CABLE RACKS ARE NOT AVAILABLE.

WHEN ONE BATTERY STAND IS TO BE GROUNDED, A #6 KS-5482-01 CABLE MAY BE USED BETWEEN THE BATTERY STAND AND THE OFFICE GROUND TERMINATION.

WHEN TWO OR MORE BATTERY STANDS ARE TO BE GROUNDED USE A #2 KS-5482-01 CABLE AS A MAIN FEEDER AND TAP INTO IT WITH A #6 KS-5482-01 CABLE, USING A PARALLEL CONNECTOR, FOR EACH BATTERY STAND.

66-A-PROVIDE A P-411719 "DO NOT DISCONNECT" TAG AT THE PRINCIPAL GROUND POINT OF THE BUS BAR OR WATER PIPE SERVING AS THE MAIN C.O. BUILDING GROUND WHEN A BOLTED TONGUE CONNECTOR OR OTHER DEVICE THAT COULD BE INADVERTENTLY DISCONNECTED IS USED. CADWELDED OR BRAZED CONNECTIONS DO NOT REQUIRE A TAG.

B-PROVIDE A 14GC NUMBER PLATE (103997156) FOR EACH GROUND CONDUCTOR TERMINATED AT THE C.O. GROUND BUS.

67-THESE GROUPS ARE PROVIDED FOR USE IN EXTREMELY CONGESTED AREAS SUCH AS THE BASEMENT OF AN OLD BUILDING; AND WHERE APPEARANCE IS IMPORTANT SUCH AS IN OFFICE AREAS, ENTRANCE OR HALLWAYS.

68-PROVIDE CHANNEL AND CHANNEL SUPPORT MATERIAL AS REQUIRED.

69-USE G-55,56,60,61,62,65,66,70 OR 71 WHERE QUANTITIES OF 1 TO 4 ARE REQUIRED. USE G-78, 79,80,81,82,83,84,85 OR 86 WHERE QUANTITIES OF 5 OR MORE ARE REQUIRED. GROUPS 55 & 78, 56 & 79 ETC, RESPECTIVELY ARE SAME, EXCEPT THE HIGHER GROUP NUMBERS USE POWER DRIVEN PINS TO EXPEDITE INSTALLATION, INSTEAD OF ANCHORS AND BOLTS.

70-G-43 REPLACED BY G-14.

MANUFACTURING NOTES (CONTINUATION)

9-INSTALLER SHALL UTILIZE "T" BOLT FURNISHED WITH PIPE HANGER TO SECURE PIPE IN PLACE AS REQUIRED TO RUN GROUND CONDUCTOR. AFTER THE CONDUCTOR IS INSTALLED THE "T" BOLTS SHALL BE DISCARDED AND REPLACED BY 840245211 CABLE TIE.

MANUFACTURING NOTES:

1-ALL [illegible]

2-[illegible] FOR [illegible].

3-ALL [illegible] CONNECTING MATERIAL [illegible] KS-5482-01 [illegible] CENTRAL OFFICE GROUND BAR [illegible]

4-ATTACH P-411719 TAG "DO NOT DISCONNECT" [illegible] CENTRAL OFFICE GROUND BAR [illegible] VERTICAL GROUND RISER.

5-ATTACH [illegible] TYPE [illegible] PLATE AT TERMINATION OF [illegible] HORIZONTAL [illegible] AT CENTRAL OFFICE GROUND BAR AND STRAP FOR FIGURE A.

6-USE P-[illegible] WASHERS (15 TO 20) FOR [illegible] AS REQUIRED BY LENGTH OF THREADS ON BOLT.

7-FINISH MOUNTING SURFACE TO A [illegible] FINISH AND COAT WITH CORROSION PREVENTIVE COMPOUND (KS-[illegible], [illegible] "B" COMPOUND, TYPICAL)

8-INSTALLER SHALL DRILL ONE 13/16 HOLE AND COUNTERBORE 2 1/16-7/8 DEEP FOR 3/4 HEX BOLT, FOR BOLTS AND WASHERS TO EACH 2 X 4 WOOD BLOCK. WHEN BLOCKS ARE TO BE FASTENED TO WALL WITH [illegible] OR POWDER DRIVEN PINS SUPPLIED BY STOCKLIST, INSTALLER TO DRILL THREE 7/16 HOLES IN EACH BLOCK, APPLY [illegible] FINISH TO BLOCKS BEFORE ASSEMBLY.

(CONTINUED)

ENGINEERING NOTES

51-INFORMATION FURNISHED FOR THIS DRAWING IS IN ACCORDANCE WITH BSP [illegible].

52-THIS DRAWING AND THE FOLLOWING BSP [illegible] THE GROUNDING ARRANGEMENT TO BE APPLIED IN CENTRAL OFFICES.

BSP [illegible] BSP [illegible]

53-FURNISH MAIN VERTICAL GROUND RISER FOR KS-5482-01 750 [illegible] WIRE, LENGTH AS REQUIRED [illegible] SPECIFICATION.

54-THE 750,000 CM GROUND RISER IS [illegible]

55-ALL [illegible] MATERIAL [illegible]

56-THE VERTICAL [illegible] A WALL OR COLUMN [illegible] PLACED AT EVERY [illegible] BE 40 FEET.

57-THE LOCATION AND INSTALLATION OF [illegible] SLEEVES [illegible] TELEPHONE COMPANY [illegible] MAY BE INSTALLED BY EITHER THE [illegible] COMPANY OR [illegible]

58-IT IS THE RESPONSIBILITY OF THE [illegible] JOB SPECIFICATION.

~~59-[illegible]~~

60-[illegible] TO [illegible] CONCRETE [illegible]

61-[illegible]

62-FURNISH ED-[illegible], G-6, CABLE RACK SUPPORTS, ON A JOB BASIS, WHEN CABLE RACK IS NOT PROVIDED.

63-FURNISH KS-5482-01 POWER WIRE & [illegible], LENGTH AS REQUIRED.

(CONTINUED)

IN TABLE A, GRPS 73 & 87 "CHANNEL" READ "BAR" [illegible] "2.75" READ "3.04".

SHT. 1, IN STOCKLIST, CHGD LINES 129,290,305,304,306,311,316,322 & ADDED LINES 329,129,330, & 331. RMVD ANCHORS FROM NOTE 9. SHT. 2, RMVD G-61 & 62 FROM FIG. WITH G-81 & 82. SHT. 4, ADD SHT. 4 & NEW FIG FOR G-81 & 82.

IN SL LINE 129 WAS 84120729(3/4 SIZE) VIEW ON SH 4 CHGD ACCORDINGLY.

IN SL LINE 136 REPLACED BY LINE 137

12-5-95

(CONTINUED AT LEFT)

G.H. 10

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SHEET	ISSUE									
4	-	-	-	-	-	-	-	36	38	39
3	30	32	32	34	34	36	37	37	37	37
2	31	31	31	34	35	35	35	36	38	38
1	31	32	33	34	35	36	37	38	39	40

SHEET INDEX

ISSUE +6

GROUND SYSTEMS
SPECIFICATION FOR PROTECTIVE
GROUNDING SYSTEMS FOR
CENTRAL OFFICE EQUIPMENT

STANDARD

ED-97729-11
4 SHEETS, SHEET 1

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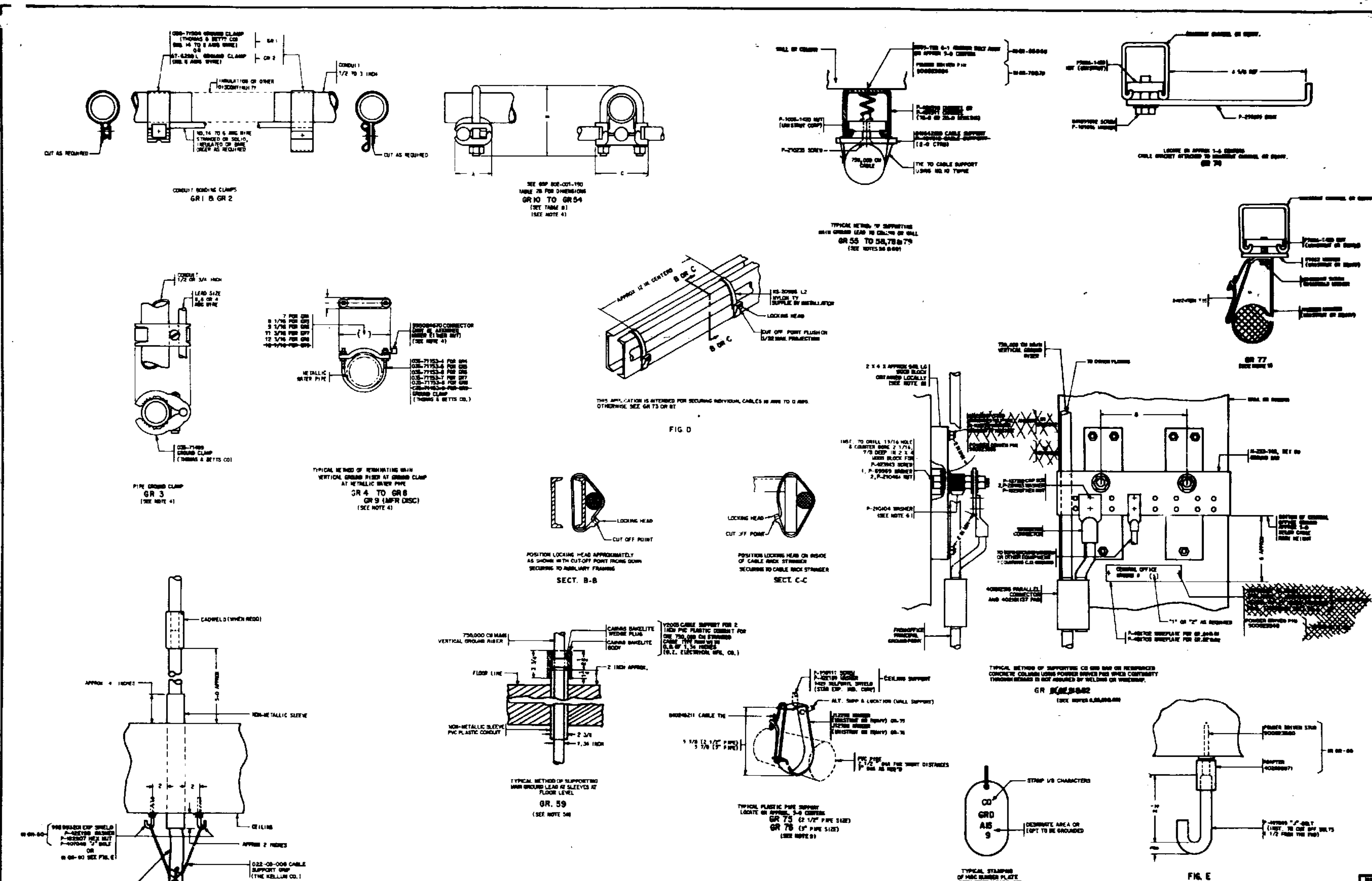

CONDUIT BONDING CLAMPS
GR 1 & GR 2
CUT AS REQUIRED
CONDUIT 1/2 TO 3 INCH
INSULATION OR OTHER DISCONTINUITY
SEE BSP 802-001-190 TABLE 2B FOR DIMENSIONS
GR10 TO GR54
(SEE TABLE B)
(SEE NOTE 4)
PIPE GROUND CLAMP
GR 3
(SEE NOTE 4)
TYPICAL METHOD OF TERMINATING MAIN VERTICAL GROUND RISER AT GROUND CLAMP AT METALLIC WATER PIPE
GR 4 TO GR 8
GR 9 (MFR DISC)
(SEE NOTE 4)
FIG. D
SECT. B-B
SECT. C-C
LOCKING HEAD
CUT OFF POINT
TYPICAL METHOD OF SUPPORTING MAIN GROUND LEAD AT SLEEVES AT CEILING LEVEL
GR 60 & 80
CADWELD (WHEN REQD)
NON-METALLIC SLEEVE
CEILING
APPROX 2 INCHES
TYPICAL METHOD OF SUPPORTING MAIN GROUND LEAD AT SLEEVES AT FLOOR LEVEL
GR. 59
FLOOR LINE
TYPICAL PLASTIC PIPE SUPPORT
GR 75 (2 1/2" PIPE SIZE)
GR 76 (3" PIPE SIZE)
STAMP 1/8 CHARACTERS
CO
GRD
AIS
9
DESIGNATE AREA OR OPT TO BE GROUNDED
TYPICAL STAMPING
FIG. A
(SEE NOTE 5)
GR 77
FIG. E
CENTRAL OFFICE GROUND BAR
"1" OR "2" AS REQUIRED

"SEE PROPRIETARY NOTICE ON SHEET ONE"

ISSUE 38

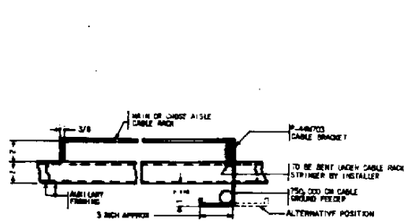
COMMON SYSTEMS
SPECIFICATION FOR PROTECTIVE
GROUNDING SYSTEMS FOR
CENTRAL OFFICE EQUIPMENT

AT&T TECHNOLOGIES, INC.

ED-97729-11

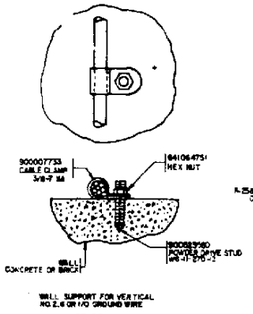
SHEET 2

ED-97729-11



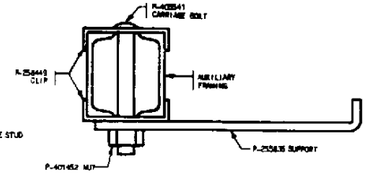
TYPICAL METHOD OF SUPPORTING HORIZONTAL GROUND FEEDER FROM LADDER TYPE CABLE RACK OF AUXILIARY FRAMING

GR-63



WALL SUPPORT FOR VERTICAL NO.2/0 OR I/O GROUND WIRE

GR-68

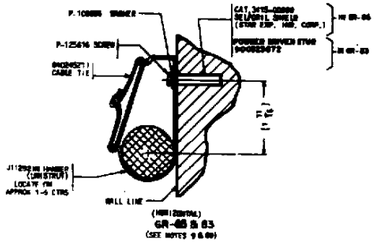


CABLE BRACKET ATTACHED TO AUXILIARY FRAMING

GR-64

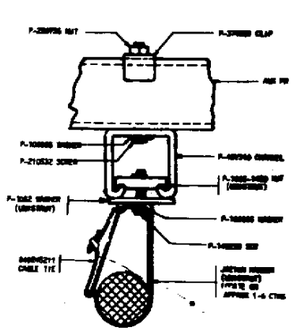
(MFR DISC)

SEE GR-73



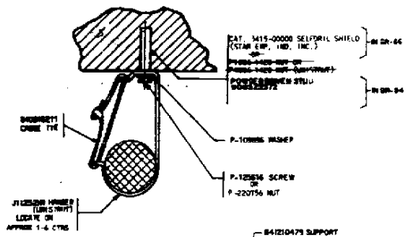
GR-65 & 83

(SEE NOTES 9 & 89)



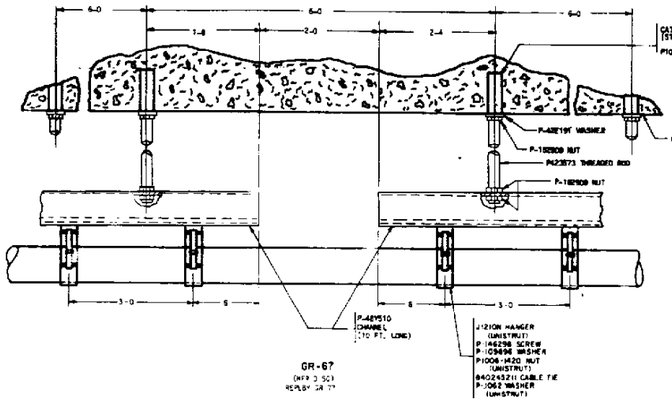
GR-66

(MFR DISC)



GR-66 & 84

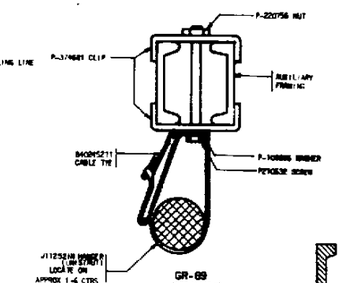
(SEE NOTE 9&9)



GR-67

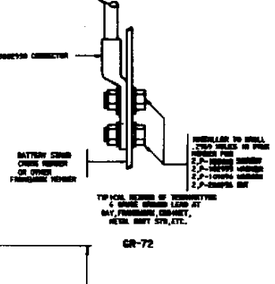
(REF'D SO)

REPLACE GR-77

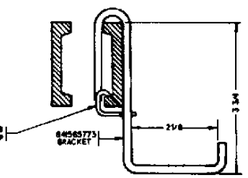


GR-69

(SEE NOTE 9)

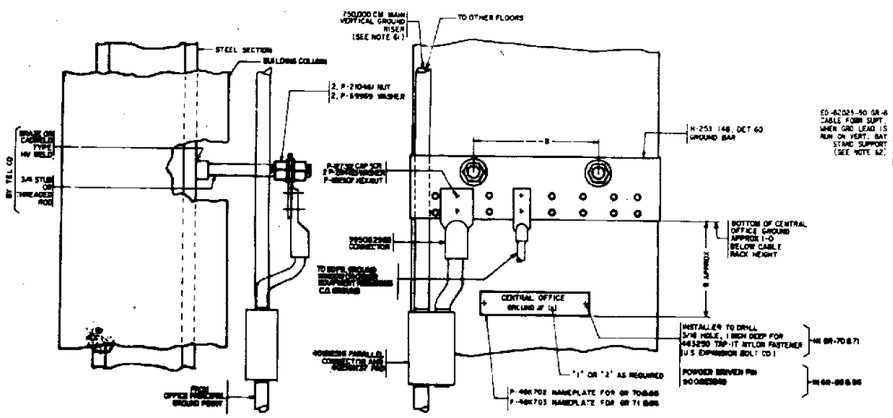


GR-72



CABLE BRACKET ATTACHED TO AUXILIARY FRAMING FOR CABLES 00 AWG OR LARGER, OTHERWISE SEE FIG D.

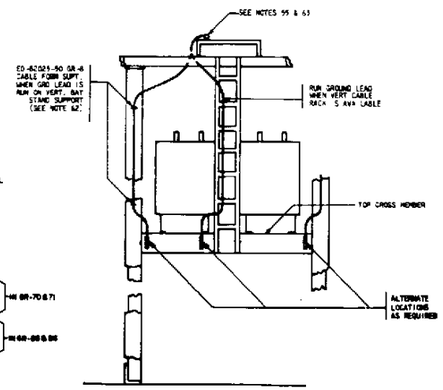
GR-73



TYPICAL METHOD OF SUPPORTING CO GRD BAR ON COLUMN STEEL OF STRUCTURAL STEEL BUILDING

GR 70,71,85&86

(SEE NOTES 60 & 69)



TYPICAL METHOD OF CONNECTING METAL BATTERY STAND TO CENTRAL OFFICE GROUND SYSTEM

FIG. B

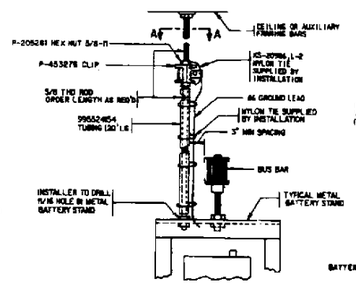
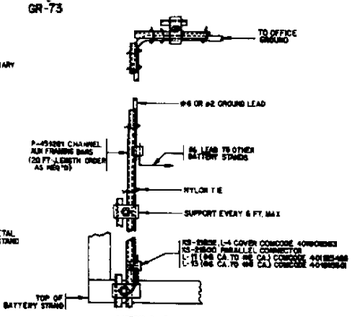


FIG C



VIEW A-A

SEE PROPRIETARY NOTICE ON SHEET ONE

ISSUE 37

ED-97729-11

GENERIC SYSTEMS SPECIFICATION FOR PROTECTIVE GROUNDING SYSTEMS FOR CENTRAL OFFICE EQUIPMENT

ED-97729-11

SHEET 3

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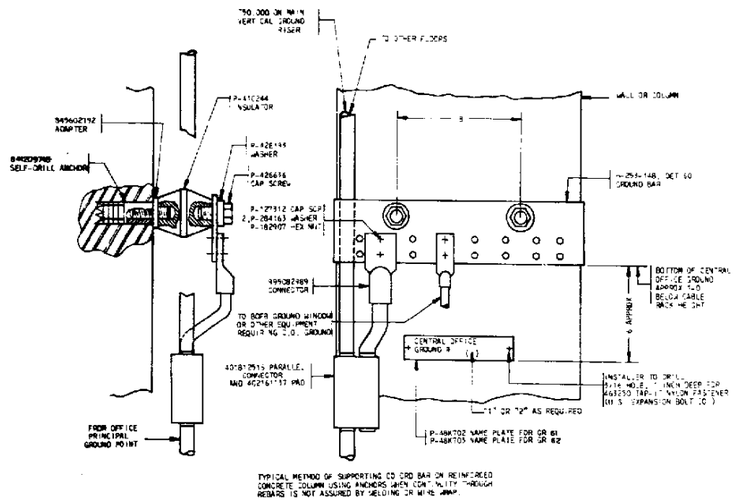

TYPICAL METHOD OF SUPPORTING CO GRD BAR ON REINFORCED CONCRETE COLUMN USING ANCHORS WHEN CONTINUITY THROUGH REBARS IS NOT ASSURED BY WELDING OR WIRE WRAP.

GR 61 & 62
(SEE NOTES 55.60 & 69)