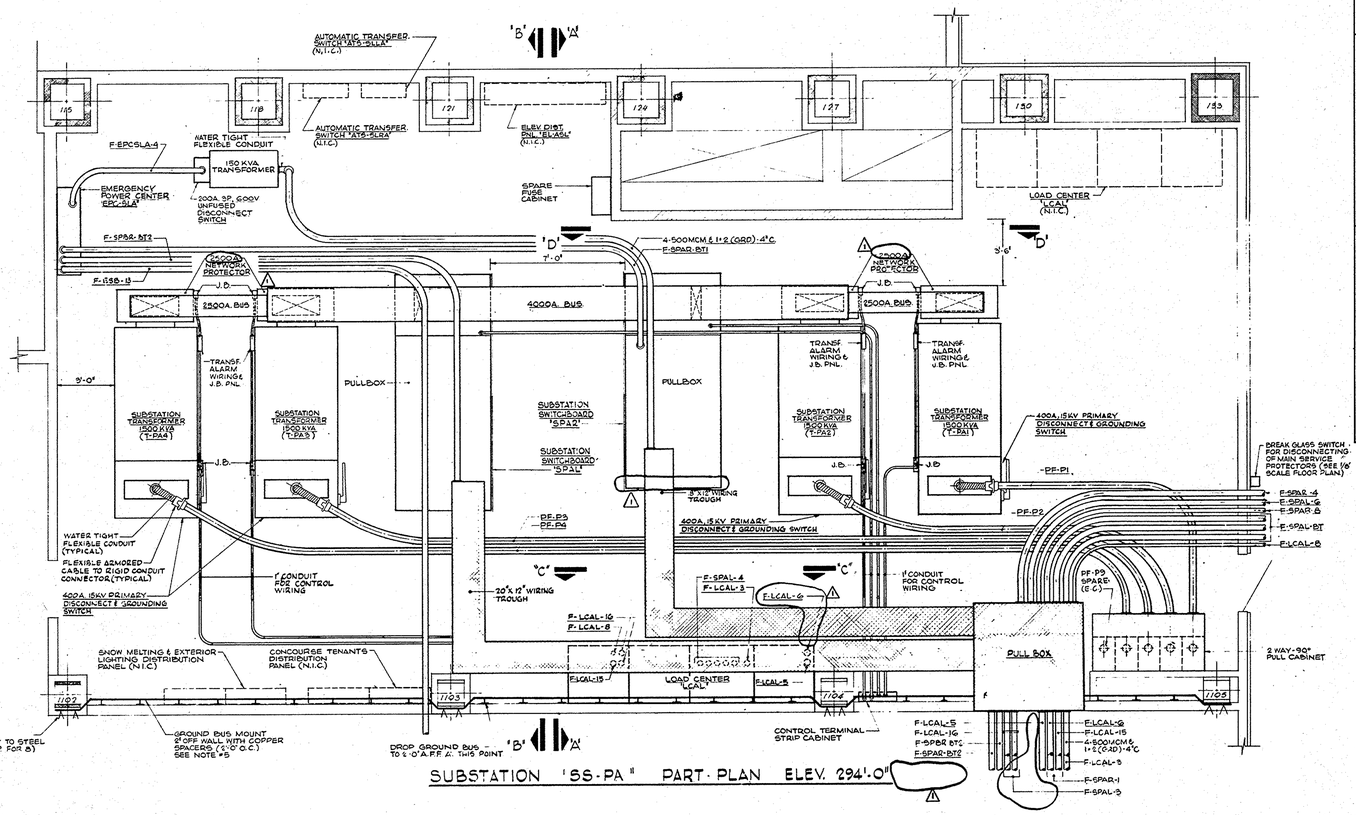


SUBSTATION "SS-PA" PART-PLAN ELEV. 294'-0"

480/277V — MAIN SWITCHBOARD SCHEDULE — 3Ø-1/2 NEUTRAL

SECTION	CIRCUIT NUMBERS	FEEDER SYMBOL	PROTECTIVE DEVICE: DEVICE RATING AMPS	POLES	TYPE	FUSE SIZE AMPS	FEEDER	SERVICE TO	REMARKS
'SPAL'	L-M5	—	4000	3	SERV. PROT.	4000	4000A., 3Ø SWBD BUS	SWBD. BRANCH UNITS L-1 THRU L-12	REMOTE TRIP ‡
	L-BT	F-SPAL-BT	2500	3	SERV. PROT	2500	3 SETS OF 5-500MCM & 1-#2(GRD) IN 5-3½"C.	300 HP FIRE PUMP	VIA. AUTO XFER. SW.
	L-1	F-SPAL-1	1200	3	QMQB. SW.	1000	— — —	SNOW MLTG. & EXT. LTG. PNL-A (FUTURE)	— — —
	L-2	F-SPAL-2	200	3	QMQB. SW.	150	— — —	ELEV. DIST. PNL "EL-ASL" A (FUTURE)	VIA AUTO XFER SW.
	L-3	F-SPAL-3	1200	3	SERV. PROT.	1000	2 SETS OF 3-500MCM & 1-#2(GRD) IN 2-4"C.	MOTOR CONTROL CENTER "MCC5"	‡ —
	L-4	F-SPAL-4	1600	3	SERV. PROT.	1600	3 SETS OF 4-350MCM & 1-#4(GRD) IN 3-4"C.	LOAD CENTER "LCALA"	— — —
	L-5	F-SPAL-5	600	3	QMQB. SW.	600	— — —	CONCOURSE TENANTS DIST. PNL-A (FUT.)	— — —
	L-6	F-SPAL-6	800	3	SERV. PROT.	800	3-500 MCM & 1-#2(GRD) IN 1-3½"C.	WATER SUPPLY PUMPS (1-100 & 1-60 HP)	‡ —
	L-7	F-SPAL-7	600	3	SERV. PROT.	450	— — —	NORTH PROJECTION FAN RM. (FUT.)	‡ —
	L-8	—	400	3	QMQB. SW.	400	— — —	SPARE	— — —
	L-9	—	400	3	QMQB. SW.	400	— — —	SPARE	— — —
	L-10	—	400	3	QMQB. SW.	400	— — —	SPARE	— — —
	L-11	—	400	3	QMQB. SW.	400	— — —	SPARE	— — —
'SPAR'	R-M5	—	4000	3	SERV. PROT.	4000	4000A., 3Ø SWBD. BUS	SWBD BRANCH UNITS R-1 THRU R-12	REMOTE TRIP ‡
	R-BT1	F-SPAR-BT1	400	3	QMQB. SW.	200	3-#3/0 & 1-#6 (GRD) - 2½"C.	ENT. LTG. PNLS. ERPCSLSA-ERPCAA & 200A. 3P. DISC. SW.	VIA. AUTO XFER SW. (150 KVA XFMER
	R-BT2	F-SPAR-BT2	400	3	QMQB. SW.	200	3-#3/0 & 1-#6 (GRD) - 2½"C.	ENT. LTG. PNLS. ERPCSLSB-ERPCAE & 100A. 3P. DISC. SW.	VIA-AUTO XFER SW. (150 KVA XFMER
	R-1	F-SPAR-1	1200	3	SERV. PROT.	1000	2 SETS OF 3-500MCM & 1-#2(GRD) IN 2-4"C.	MOTOR CONTROL CENTER "MCC5"	‡ —
	R-2	F-SPAR-2	1600	3	SERV. PROT.	1200	— — —	LOAD CENTER "LCARA" (FUTURE)	— — —
	R-3	F-SPAR-3	600	3	QMQB. SW.	600	— — —	CONCOURSE TENANTS DIST. PNL-B (FUT)	— — —
	R-4	F-SPAR-4	800	3	SERV. PROT.	800	6-250MCM & 1-#2(GRD) - 3½"C.	WATER SUPPLY PUMPS (2-100 HP)	‡ —
	R-5	F-SPAR-5	1200	3	QMQB. SW.	1200	— — —	SNOW MLTG & EXT. LTG. PNL-B (FUTURE)	— — —
	R-6	—	400	3	QMQB. SW.	400	— — —	SPARE	— — —
	R-7	F-SPAR-7	200	3	QMQB. SW.	150	— — —	ELEV. DIST. PNL "EL-ASL" B (FUTURE)	VIA. AUTO XFER SW. (FUTURE)
	R-8	F-SPAR-8	800	3	SERV. PROT.	500	3-1/0 & 1-#6 (GRD) - 2"C.	SPKLR & JOCKEY PUMPS (1-75 & 1-25 H.P.)	VIA. AUTO XFER SW. ‡
	R-9	—	400	3	QMQB. SW.	400	— — —	SPARE	— — —
	R-10	—	400	3	QMQB. SW.	400	— — —	SPARE	— — —
	R-11	—	400	3	QMQB. SW.	400	— — —	SPARE	— — —

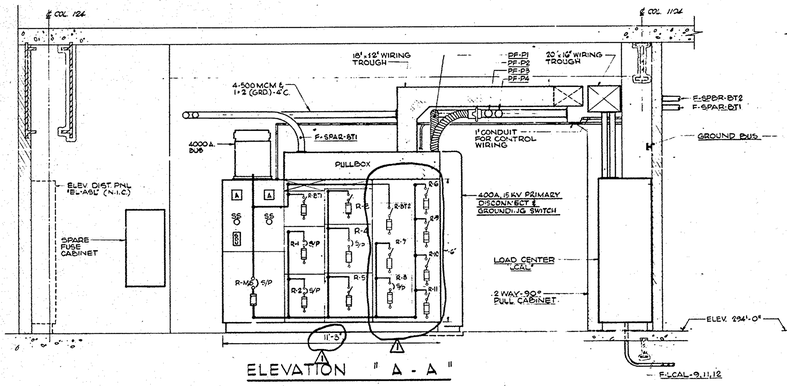
* PROVIDE SERVICE PROTECTOR WITH ANTI-SINGLE PHASE DEVICE.

LOAD CENTER SCHEDULE

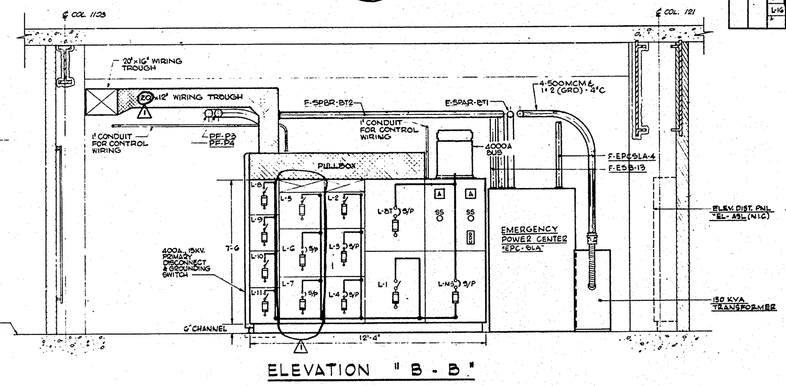
DESIGN.	SECTION	CIRCUIT NUMBERS	FEEDER SYMBOL	PROTECTIVE DEVICE: DEVICE RATING AMPS	POLES	TYPE	FUSE SIZE AMPS	FEEDER	SERVICE TO	REMARKS
'LCAL'	480/277 VOLT	L-1	—	200	3	QMQB. SW.	200	— — —	SPARE	— — —
		L-2	—	200	3	QMQB. SW.	200	— — —	SPARE	— — —
		L-3	F-LCAL-3	400	3	QMQB. SW.	300	4-350MCM & 1-#4 (GRD)-3½"C.	UNDERSIDE OF BALCONY LTG.	VIA 400A. DISC. SWITCH
		L-4	F-LCAL-4	400	3	QMQB. SW.	400	400A. BUS.	BRANCH UNITS L-5 THRU L-16	VIA 300 KVA TRANSFORMER
		L-5	F-LCAL-5	400	3	QMQB. SW.	300	4-350 MCM & 1-#4 (GRD)-3½"C.	LTG. PNLS. LPCSLA THRU LPCG4	— — —
		L-6	F-LCAL-6	400	3	QMQB. SW.	300	4-350 MCM & 1-#4 (GRD)-3½"C.	LTG. PNLS. LPCSLSA THRU. LPCSLJA	— — —
		L-7	—	400	3	—	—	— — —	SPACE	— — —
	120/208 VOLT	L-8	F-LCAL-8	60	3	QMQB. SW.	60	3-#6 & 1-#12 (GRD)-1¼"C.	EL. 294' POWER	VIA. 60A. DISC. SWITCH
		L-9	F-LCAL-9	60	3	QMQB. SW.	60	3-#6 & 1-#12 (GRD)-1¼"C.	EL. 284' POWER	VIA. 60A. DISC. SWITCH
		L-10	—	60	3	QMQB. SW.	60	— — —	SPARE	— — —
		L-11	F-LCAL-11	100	3	QMQB. SW.	100	3-#2 & 1-#10 (GRD)-1½"C.	EL. 284' POWER	VIA 100A. DISC. SWITCH
		L-12	F-LCAL-12	100	3	QMQB. SW.	100	3-#2 & 1-#10 (GRD)-1½"C.	EL. 284' POWER	VIA 100A. DISC. SWITCH
		L-13	—	100	3	QMQB. SW.	100	— — —	SPARE	— — —
		L-14	—	200	3	QMQB. SW.	200	— — —	SPARE	— — —
		L-15	F-LCAL-15	400	3	QMQB. SW.	250	4-250 MCM & 1-#0 (GRD)-3"C.	REC. PNLS. RPCSLS THRU RPCGA	— — —
		L-16	F-LCAL-16	600	3	QMQB. SW.	600	2 SETS OF 4-350MCM & 1-#4 (GRD) IN 3-4"C.	UNDERSIDE OF BALCONY LTG.	VIA 600A. DISC. SWITCH

GENERAL NOTES:

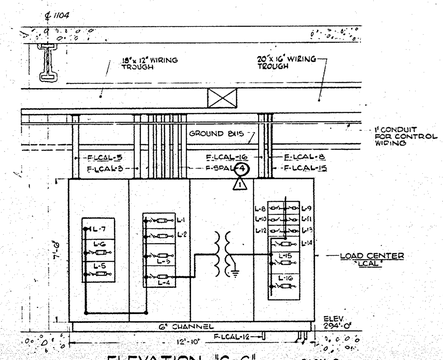
1. FOR SINGLE LINE DIAGRAM SEE DWG. E-X-9.
2. FOR 15 & 5 KV SERVICE & DISTRIBUTION SYSTEM RISER & SCHEDULES SEE DWG. E-X-7.
3. SEE SPECIFICATIONS FOR SPECIAL CONSTRUCTION OF SUBSTATION SWITCHBOARDS.
4. FOR PRIMARY SPLICE AND CABLE COMPARTMENT DETAILS SEE DWGS. E-A-12G THRU E-A-12S.
5. FOR TYPICAL GROUNDING SYSTEM DIAGRAM SEE DWG. E-A-120.
6. FOR EMERGENCY POWER CENTER SCHEDULE SEE DWG. E-A-99.
7. WIREWAYS CONTAINING MORE THAN 30 CURRENT CARRYING CONDUCTORS SHALL BE PROVIDED WITH BARRIERS.
8. FOR SUBSTATION REMOTE CONTROL WIRING DETAILS SEE DWG. E-X-5.



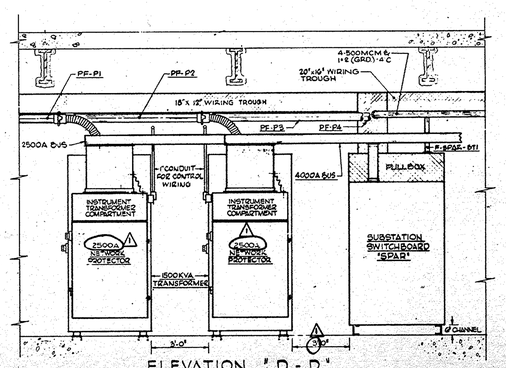
ELEVATION "A - A"



ELEVATION "B - B"



ELEVATION "C-C"



ELEVATION "D - D"

CONTRACT BID DRAWING.. date OCT. 16, 1967

NO.	DATE	BUL. NO.	BY	NO.	DATE	BUL. NO.	BY
1	12-18-67						

REVISIONS | REVISIONS

APPROVED

CHIEF, PLANNING DIVISION

DATE

3/8"-1'-0" 0 6" 1' 2' 3' 4' 5' 6' 7" 8'

DRAWING NE E-A-69, E-A-70, & E-A-71 NOT PART OF THIS CONTRACT.

THE WORLD TRADE CENTER

THE PORT OF NEW YORK AUTHORITY

MINORU YAMASAKI & ASSOCIATES
MINORU YAMASAKI, ARCHITECT

WORTHINGTON, SKILLING, HELLE & JACKSON
STRUCTURAL ENGINEERS

JOSEPH R. LORING & ASSOCIATES
ELECTRICAL ENGINEERS

EMERY ROTH & SONS
RICHARD ROTH, ARCHITECT

JAROS, BAUM & BOLLES
MECHANICAL ENGINEERS

THE PORT OF NEW YORK AUTHORITY
PAVING, UTILITIES, FOUNDATIONS

TITLE: SUB-STATION SS-PA SERVICE LEVEL ELEV. 294'

DRAWN	R.P.H.	CHECKED	J.R.L.
SCALE	3/8"=1'-0"	DATE	OCT. 16, 1967
PROJECT NUMBER		SHEET 68	OF 114
DRAWING NUMBER	E-A-72		

FileJuicer