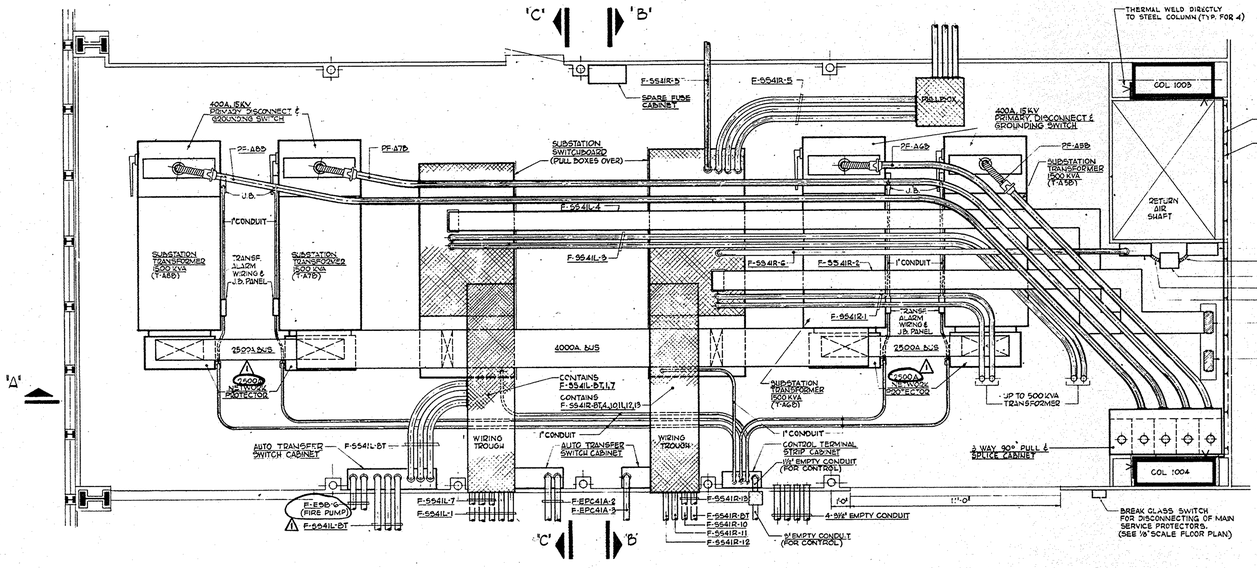
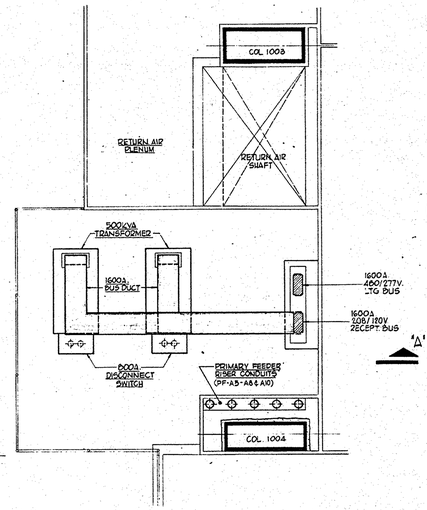


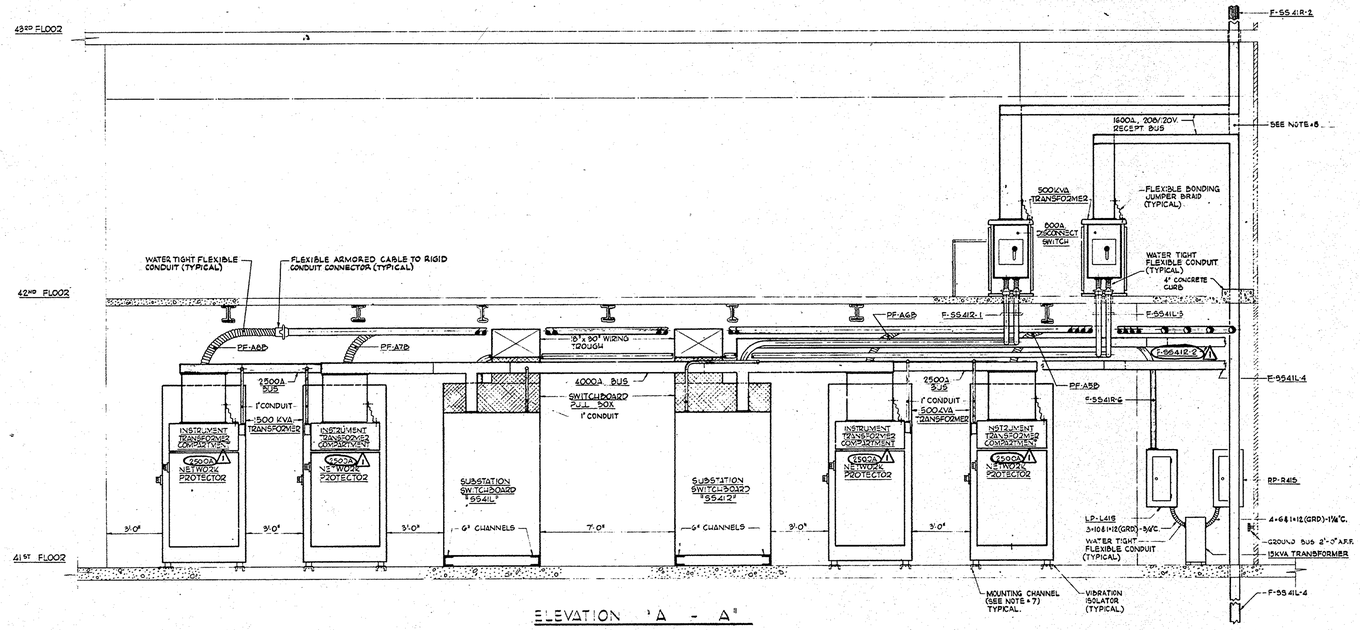
SUBSTATION "SS 41S" PART PLAN 41ST FL.



SUBSTATION 'SS41S' ROOF PART PLAN
42ND FL.

GENERAL NOTES:

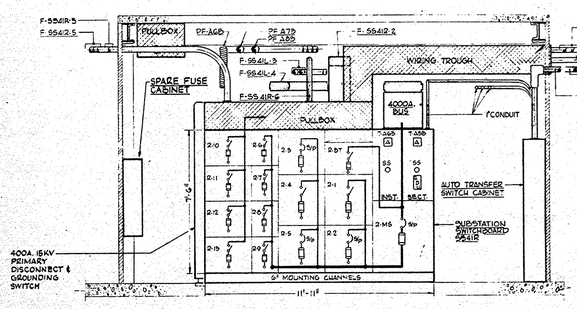
1. FOR SINGLE LINE DIAGRAM SEE DWG. E-X-9.
2. FOR 15.5 KV SERVICE & DISTRIBUTION SYSTEM RISER & SCHEDULES SEE DWG. E-X-7.
3. FOR DETAILS SHOWING VERTICAL SUPPORT OF BUS DUCT SEE DWGS. E-A-131.
4. SEE SPECIFICATIONS FOR SPECIAL CONSTRUCTION OF SUBSTATION SWITCHBOARDS.
5. FOR AUTO TRANSFER SWITCH DETAILS AND SCHEDULE SEE DRAWING E-A-99.
6. FOR PRIMARY SPLICE AND CABLE COMPARTMENT DETAILS SEE DRAWING E-A-126 THRU E-A-128.
7. CONTRACTOR SHALL TAKE EXTREME CARE TO PREVENT DAMAGE TO WATERPROOF MEMBRANE.
8. PROVIDE FULL CAPACITY BUS DUCT TIE SECTION (AND 800A 3P, 250V FUSED DISCONNECT SWITCH FOR 208/120V BUS DUCT ONLY) FOR TEMPORARY LIGHT & POWER. DISCONNECT BAR AND INSTALL 90° ELBOWS AS SHOWN FOR PERMANENT INSTALLATION. DISCONNECT SWITCH NOT SHOWN, SEE SPECIFICATIONS.
9. FOR TYPICAL GROUNDING SYSTEM DIAGRAM SEE DWG. E-A-120.
10. FOR SUBSTATION REMOTE CONTROL WIRING DETAILS SEE DWG.# E-X-3



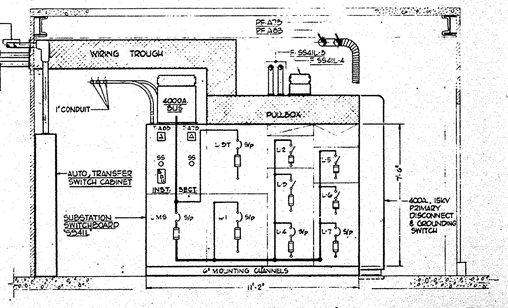
ELEVATION 'A - A'

480/277V		MAIN SWITCHBOARD SCHEDULES					3Φ-1/2 NEUTRAL
SECTION / CUBICLE NUMBER	FEEDER SYMBOL	PROTECTIVE DEVICE: DEVICE RATING AMPS	POLES	TYPE	FUSE SIZE AMPS.	FEEDER	SERVICE TO	REMARKS
	L-MS	4000	3	SERV. PROT.	4000	4000A., 3Φ, SWBD BUS	SWBD BRANCH UNITS L-1 THRU L-7	REMOTE TRIP #
	L-BT F-5541L-BT	2500	3	SERV. PROT.	2500	9 SETS OF 3-500MCM, 1"Ø (GRD) IN 3-3½"C.	500 I.P. FIRE PUMP	VIA AUTO XFER SW.
	L-1 F-5541L-1	2500	3	SERV. PROT.	2000	9 SETS OF 3-500MCM, 1"Ø (GRD) IN 3-3½"C.	ELEV. DIST. PNLS "EL-A41W & E" (EL-A41E)	ZONE 3, 2000 HP ELEV. VIA AUTO XFER SW.
	L-2	400	3	GMQD SW.	400		SPARE	
	L-3 F-5541L-3	800	3	GMQD SW.	600	2 SETS OF 3-500MCM, 1"Ø (GRD) IN 2-3½"C.	REC. PNLS 2255 THRU R2C5	VIA 500KVA XFMR
	L-4 F-5541L-4	1600	3	SERV. PROT.	1600	4000A., 3Φ, FN. BUS DUCT W/GRD.	LTG. PNLS L295 THRU L4C5	
	L-5	400	3	GMQD SW.	400		SPARE	
	L-6	400	3	GMQD SW.	400		SPARE	
"5541L"	L-7 F-5541L-7	1600	3	SERV. PROT.	1600	9 SETS OF 3-500MCM & 1" Ø (GRD) IN 3-3½"C.	MOTOR CONTROL CENTER "MS41L"	#
	2-MS	4000	3	SERV. PROT.	4000	4000A., 3Φ, SWBD BUS	SWBD BRANCH UNITS 2-1 THRU 2-9	REMOTE TRIP #
	2-BT F-5542-BT	400	3	GMQD SW.	200	3 #1/0 & 1"Ø (GRD) 2½"C.	EM. LTG. PNLS EEPC26A THRU EEPC30A	VIA AUTO XFER SW & 150 KVA XFMR.
	2-1 F-5542-1	800	3	GMQD SW.	600	2 SETS OF 3-500MCM, 1"Ø (GRD) IN 2-3½"C.	REC. PNLS 2A65 THRU 2S65	VIA 500 KVA XFMR
	2-2 F-5542-2	1600	3	SERV. PROT.	1600	1600A., 3Φ, FN. BUS DUCT W/GRD.	LTG. PNLS L495 THRU L585	
	2-3 F-5542-3	800	3	SERV. PROT.	500	5-250 MCM & 1"Ø (GRD) - 2½" C.	WATER SUPPLY PUMPS (1-75 & 1-40 HP)	#
	2-4 F-5542-4	1200	3	GMQD SW.	1200	3 SETS OF 3-500 MCM, 1"Ø (GRD) IN 3-3½"C.	SPLIT BUS SECTION OF SWBD	VIA AUTO XFER SW
	2-5 F-5542-5	1200	3	SERV. PROT.	1200	3 SETS OF 3-500 MCM & 1" Ø (GRD) IN 3-3½"	MOTOR CONTROL CENTER "MS42"	#
	2-6 F-5542R-6	200	3	GMQB SW.	200	4-3#1/0 & 1#6 (GRD) - 2½"C.	LTG. PNL. L415	
	2-7	400	3	GMQB SW.	400		SPARE	
	2-8	400	3	GMQB SW.	400		SPARE	
	2-9	400	3	GMQB SW.	400		SPARE	
"5542"	SPLIT BUS SECTION 1200A., 3Φ, BUS						SWBD BRANCH UNITS 2-10 THRU 2-15	
	2-10 F-5542-10	400	3	GMQB SW.	250	6-250 MCM & 1"Ø (GRD) 2½" C.	ELEV. DIST. PNL "EL-A1B-B"	ZONE 1, BANK "A" 5-6GP ELEVS.
	2-11 F-5542-11	400	3	GMQB SW.	400	3-500 MCM & 1"Ø (GRD) - 3½"C.	ELEV. DIST. PNL "EL-A2G-B"	ZONE 1, BANK "B" 3-9GP ELEVS
	2-12 F-5542-12	400	3	GMQB SW.	400	3-500 MCM & 1"Ø (GRD) -3½"C.	ELEV. DIST. PNL "EL-A3A-B"	ZONE 2, BANK "C" 3-5GP ELEVS.
	2-15 F-5542-15	600	3	GMQB SW.	800	2 SETS OF 5-556 MCM & 1#4 (GRD) IN 3-4"C.	ELEV. DIST. PNL "EL-A4E-B"	ZONE 2, BANK "B" 5-8GP ELEVS.

* PROVIDE SERVICE PROTECTOR WITH ANTI-SINGLE PHASE DEVICE.



ELEVATION 'B - B'



ELEVATION "C - C'

CONTRACT BID DRAWING date OCT. 16, 1967

NO.	DATE	SUB. NO.	BY	NO.	DATE	SUB. NO.	BY
1	12-15-67						

REVISIONS

APPROVED

CHIEF, PLANNING DIVISION

DATE

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

THE WORLD TRADE CENTER
THE PORT OF NEW YORK AUTHORITY

MINORU YAMASAKI & ASSOCIATES
MINORU YAMASAKI, ARCHITECT

EMERY ROTH & SONS
RICHARD ROTH, ARCHITECT

WORTHINGTON, SKILLING, HELLE & JACKSON
STRUCTURAL ENGINEERS

JAROS, BAUM & BOLLES
MECHANICAL ENGINEERS

JOSEPH R. LORING & ASSOCIATES
ELECTRICAL ENGINEERS

THE PORT OF NEW YORK AUTHORITY
PAVING, UTILITIES & FOUNDATIONS

TITLE: SUB-STATION SS-41S 41ST FLOOR SOUTH

DRAWN	R.F.H.	CHECKED	J.R.L.
SCALE	3/8"-1'-0"	DATE	OCT. 16, 1967
PROJECT NUMBER		SHEET 67 OF 114	
DRAWING NUMBER	E-A-76		

FileJuicer