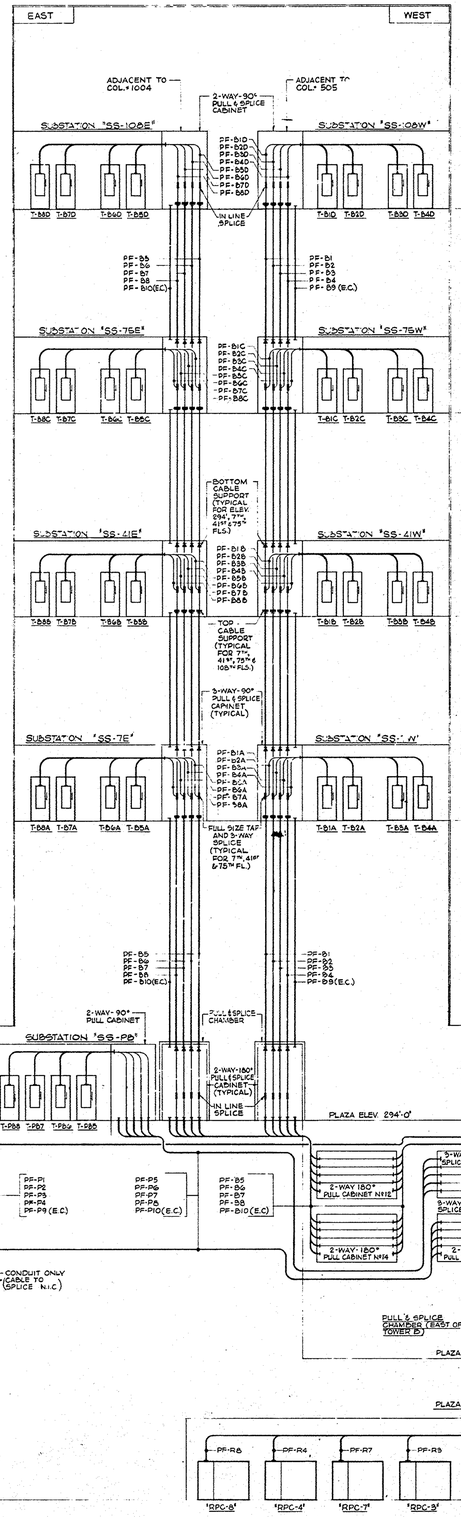
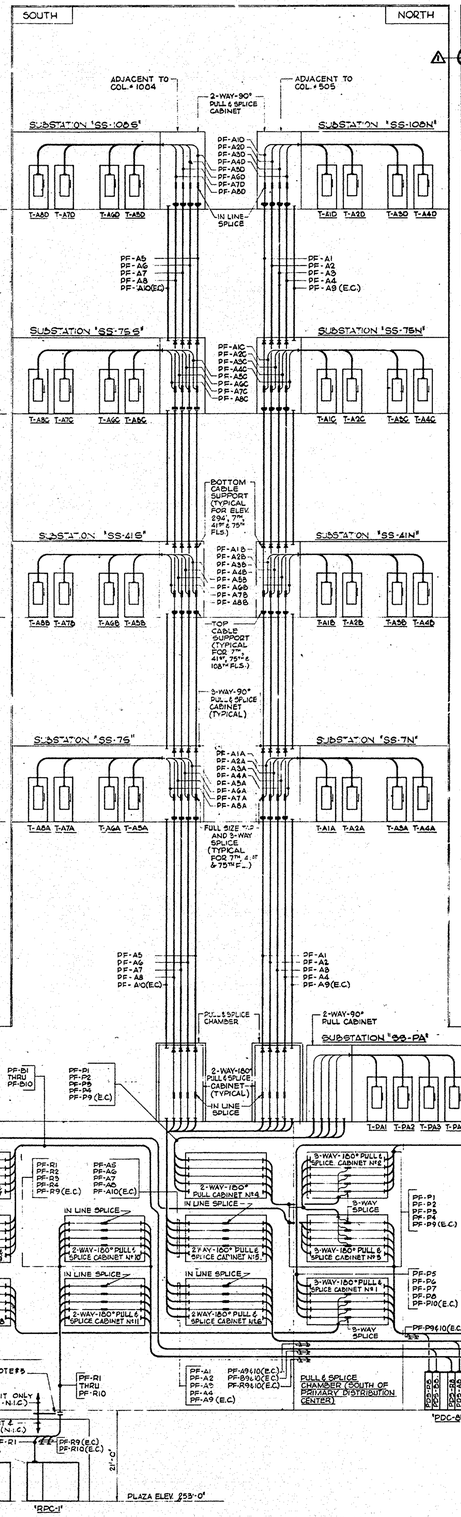
TOWER B



TOWER A



13.8 KV DISTRIBUTION SYSTEM FEEDER SCHEDULE

FEEDER DESIGNATIONS	NO. OF FEEDERS	CABLE SIZE PER FEEDER	COND SIZE PER FEEDER	ORIGINATION	SERVES	REMARKS
PF-1 TO PF-8	8	1-500 MCM	2-3"C.	CON ED. SUBSTATION RING BUS.	PRI. DIST. CENTERS 'PDC-1' TO 'PDC-8'	SPARE CONDUITS
PF-9 TO PF-12	4	"	1-5"E.C.			
PF-A1 TO PF-A4	4	1-3/C-350AWG*	1-4"C. ⊕	PRI. DIST. CENTERS 'PDS-A1' TO 'PDS-A4'	TOWER 'A' NORTH SUBSTATIONS	SPARE CONDUIT
PF-A9	1	"	1-4"E.C. ⊕			
PF-A5 TO PF-A8	4	1-3/C-350AWG*	1-4"C. ⊕	PRI. DIST. CENTERS 'PDS-A5' TO 'PDS-A8'	TOWER 'A' SOUTH SUBSTATIONS	SPARE CONDUIT
PF-A10	1	"	1-4"E.C. ⊕			
PF-B1 TO PF-B4	4	1-3/C-350AWG*	1-4"C. ⊕	PRI. DIST. CENTERS 'PDS-B1' TO 'PDS-B4'	TOWER 'B' WEST SUBSTATIONS	SPARE CONDUIT
PF-B9	1	"	1-4"E.C. ⊕			
PF-B5 TO PF-B8	4	1-3/C-350AWG*	1-4"C. ⊕	PRI. DIST. CENTERS 'PDS-B5' TO 'PDS-B8'	TOWER 'B' EAST SUBSTATIONS	SPARE CONDUIT
PF-B10	1	"	1-4"E.C. ⊕			
PF-P1 TO PF-P4	4	1-3/C-350AWG*	1-4"C. ⊕	PRI. DIST. CENTERS 'PDS-P1' TO 'PDS-P4'	SUBSTATIONS 'SS-9A', 'PCA', & 'PE'	SPARE CONDUIT
PF-P9	1	"	1-4"E.C. ⊕			
PF-P5 TO PF-P8	4	1-3/C-350AWG	1-4"C. ⊕	PRI. DIST. CENTERS 'PDS-P5' TO 'PDS-P8'	SUBSTATIONS 'SS-9B', 'PCB' & 'PF'	SPARE CONDUIT
PF-P10	1	"	1-4"E.C. ⊕			
PF-R1 TO PF-R8	8	1-250 MCM	1-2"C.	PRI. DIST. CENTERS 'PDS-R1' TO 'PDS-R8'	REFR. PLANT PWR. CTRS 'RPC-1' TO 'RPC-8'	SPARE CONDUIT
PF-R9 & PF-R10	2	"	1-4"E.C.			

* ALL VERTICALLY SUPPORTED TOWER AND CUSTOMS BUILDING FEEDERS SHALL BE HELICALLY WIRE ARMORED BETWEEN THE TOP AND BOTTOM CABLE SUPPORT AND SPLICING CABINETS SHOWN IN DIAGRAM FOR FULL HEIGHT OF RISE SEE SPECIFICATIONS FOR ALTERNATE CABLE DESIGNS AND SUPPORT METHODS.

⊕ ALL VERTICAL RISERS WITH WIRE ARMOR SHALL BE IN 5" CONDUITS., HORIZONTAL RUNS AS SHOWN IN SCHEDULE.

NOTE:

ALL PRIMARY FEEDER TAPS SERVING TOWER SUBSTATION TRANSFORMER SHALL BE FULL SIZE TAP 1-3/C. # 350 AWG.- 4" CONDUIT DESIGNATED WITH SUFFIXED AS FOLLOWS.

SUFFIX A 7TH FLOOR SUBSTATION TRANSFORMER.
SUFFIX B 41ST FLOOR SUBSTATION TRANSFORMER.
SUFFIX C 75TH FLOOR SUBSTATION TRANSFORMER.
SUFFIX D 108TH FLOOR SUBSTATION TRANSFORMER.

GENERAL NOTES

1. 13.8KV. FEEDER TAPS TO ALL TOWER SUBSTATIONS SHALL BE 3/C CABLE.
2. FOR SINGLE LINE DIAGRAM OF PLAZA SEE DWG. E-X-8 .
3. FOR SINGLE LINE DIAGRAM OF TOWER SEE DWG. E-X-9 .
4. FOR CABLE SUPPORTS, PULL & SPLICE CABINETS, AND SPLICE DETAILS SEE DWGS. E-A-127 & E-B-127.
5. SEE FLOOR PLANS FOR EXACT DIVISION OF WORK NOT IN CONTRACT (N.I.C.)
6. FOR PRIMARY DISTRIBUTION CENTER LAYOUT DETAIL SEE DWG. E-X-5.
7. FOR TOWER 'A' SUBSTATION DETAILS SEE DWGS. E-A-72—80.
8. FOR TOWER 'B' SUBSTATION DETAILS SEE DWGS. E-B-72—80.
9. FOR LOCATION OF CON EDISON SUBSTATION & DETAILS SHOWING ARRANGEMENT OF CONDUITS IN DUCTBANKS SEE DWG. R-27, UD-59, UX-61 AND PART PLAN ON DWG. E-X-1.

U.S. CUSTOMS



NORTH EXHIBIT BUILDING

SOUTH EXHIBIT BUILDING

CONTRACT BID DRAWING date OCT. 16, 1967

NO.	DATE	BUL. NO.	BY
1	10-15-67		

REVISIONS

APPROVED

CHIEF, PLANNING DIVISION

DATE

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: 13.8 KV SERVICE AND DISTRIBUTION SYSTEM RISER DIAGRAM

DRAWN	R.F.H.	CHECKED	J.R.L.
SCALE	NONE.	DATE	OCT. 16, 1967
PROJECT NUMBER		SHEET	7 OF 12
DRAWING NUMBER	E-X-7		

FileJuicer