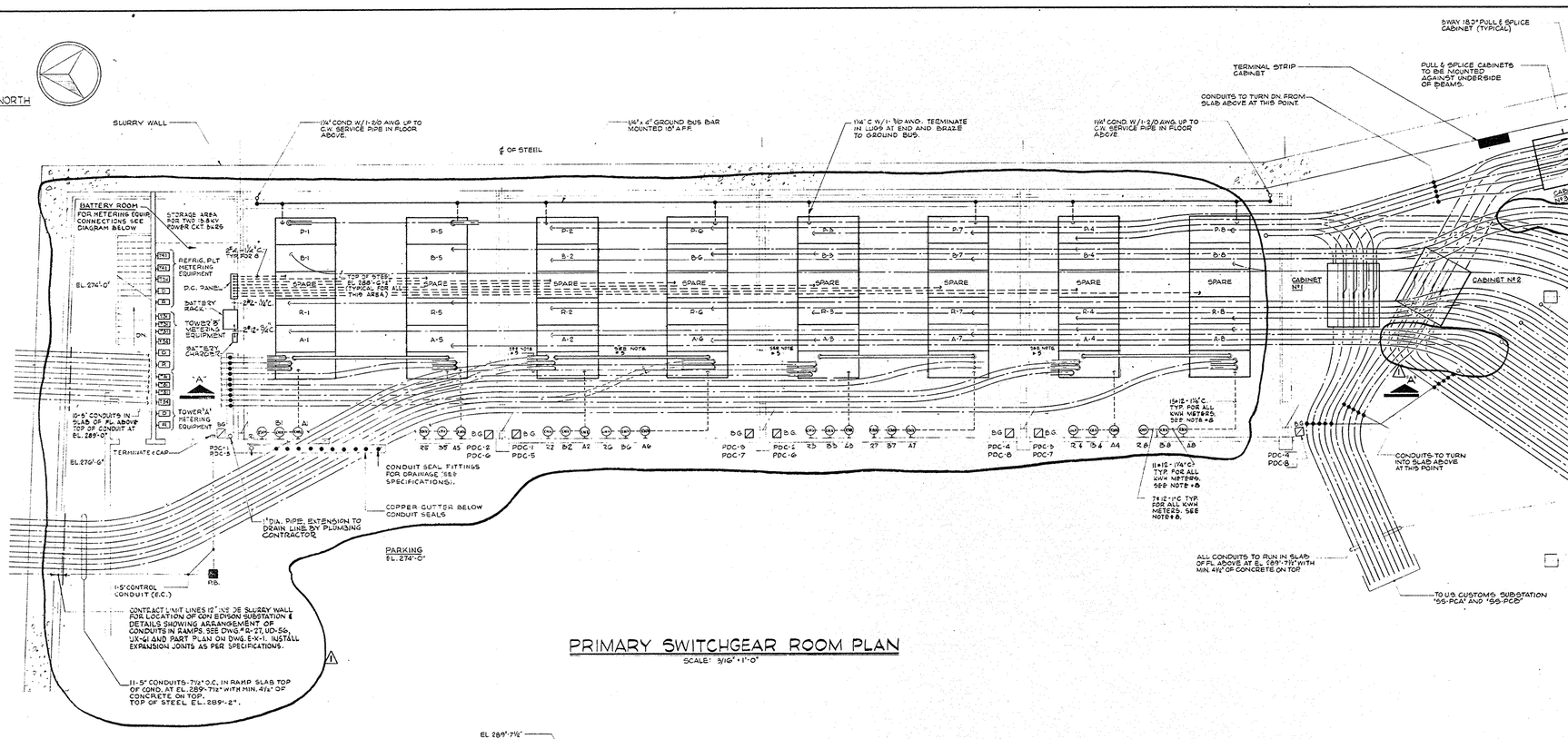
NORTH

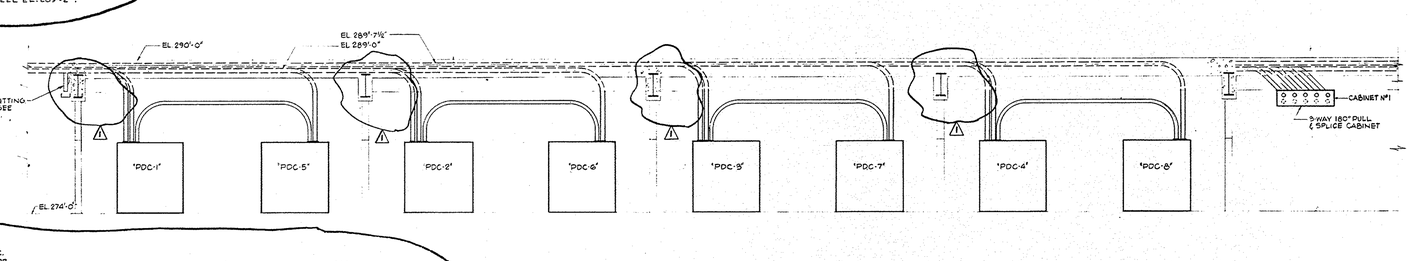


PRIMARY SWITCHGEAR ROOM PLAN

SCALE: 3/16" = 1'-0"

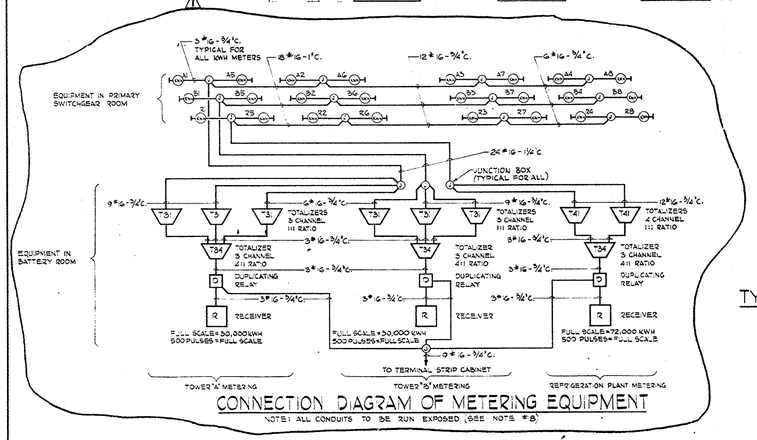
NOTES:

1. FOR LIGHTING CONTROL TERMINAL STRIP CABINETS SEE DETAILS ON DWGS E-A-118 & E-B-118
2. IN ALL TERMINAL STRIP CABINETS PROVIDE CONDUIT KNOCKOUTS AS DIRECTED FOR INSTALLATION BY OTHERS OF REMOTE CONTROL WIRING TO PROJECT CONTROL CENTER.
3. LIGHTING IN PRIMARY SWITCHGEAR RM. & SUPPLY FOR BATTERY CHARGER N.I.C.
4. PROVIDE EXPANSION JOINT FITTINGS AT FOUNDATION WALL (SEE SPECIFICATIONS)
5. PROVIDE CONDUIT SEAL FITTINGS FOR DRAINAGE LOCATED AT COMPARTMENT WALLS. (SEE SPECIFICATIONS).
6. ALL PULL & SPLICE CABINETS SHALL BE PROVIDED WITH BASE, BODY AND CABLE SUPPORTS. (SEE SPECIFICATIONS)
7. FOR TYPICAL GROUNDING SYSTEM DIAGRAM SEE DWGS E-A-120 & E-B-120
8. ALL WIRING FOR KWH METERING SYSTEM SHALL BE IN A 3/4" EMT CONDUIT SYSTEM.
9. ALL KILOWATTHOUR METERS SHOWN IN PRIMARY SWITCHGEAR ROOM SHALL BE OF THE 13.8 KV 3 PHASE 3 WIRE DELTA SYSTEM TYPE.



SCHEDULE OF TERMINAL STRIP CABINETS FOR REMOTE CONTROL & SIGNALS (SEE NOTES 1 & 2)

CABINET LOCATION	TERMINAL NUMBERS	PART CONTROLLED AND/OR SUPERVISED	REMOTE CONTROL	INDICATION
PRIMARY DISTRIBUTION CENTER	1,2	SECTION PDC-1 MAIN CKT. BKR.	OPEN BKR.	
	3,4	SECTION PDC-1 MAIN CKT. BKR.	———	OPEN POSITION
	4,5	SECTION PDC-1 MAIN CKT. BKR.	———	CLOSED POSITION
	6,7	SECTION PDC-1 BRANCH CKT. BKR. #1	OPEN BKR.	
	8,9	SECTION PDC-1 BRANCH CKT. BKR. #1	———	OPEN POSITION
	9,10	SECTION PDC-1 BRANCH CKT. BKR. #1	———	CLOSED POSITION
	11,12	SECTION PDC-1 BRANCH CKT. BKR. #2	OPEN BKR.	
	13,14	SECTION PDC-1 BRANCH CKT. BKR. #2	———	OPEN POSITION
	14,15	SECTION PDC-1 BRANCH CKT. BKR. #2	———	CLOSED POSITION
	16,17	SECTION PDC-1 BRANCH CKT. BKR. #3	OPEN BKR.	
	18,19	SECTION PDC-1 BRANCH CKT. BKR. #3	———	OPEN POSITION
	19,20	SECTION PDC-1 BRANCH CKT. BKR. #3	———	CLOSED POSITION
	21,22	SECTION PDC-1 BRANCH CKT. BKR. #4	OPEN BKR.	
	23,24	SECTION PDC-1 BRANCH CKT. BKR. #4	———	OPEN POSITION
	24,25	SECTION PDC-1 BRANCH CKT. BKR. #4	———	CLOSED POSITION
	26,27	SECTION PDC-1 FUTURE CKT. BKR. #5	OPEN BKR.	
	28,29	SECTION PDC-1 FUTURE CKT. BKR. #5	———	OPEN POSITION
	29,30	SECTION PDC-1 FUTURE CKT. BKR. #5	———	CLOSED POSITION
	31-60	DITTO FOR SECTION PDC-5		
	61-90	DITTO FOR SECTION PDC-2		
	91-120	DITTO FOR SECTION PDC-6		
	121-150	DITTO FOR SECTION PDC-3		
	151-180	DITTO FOR SECTION PDC-7		
	181-210	DITTO FOR SECTION PDC-4		
	211-240	DITTO FOR SECTION PDC-8		
	241,242	BATTERY CHARGER A.C. FAILURE RELAY		POWER FAILURE
	242-244	FUTURE REFRIG. PLT METERING TERMINALS		
	245-247	FUTURE TOWER "B" METERING TERMINALS		
	248-250	FUTURE TOWER "A" METER. ING TERMINALS		
	251-278	SPARES		
NETWORK SUBSTATION (TYPICAL)	1	TRANSFORMER #1 OR 5 TEMPERATURE	———	MEDIUM TEMP.
	2	TRANSFORMER #1 OR 5 TEMPERATURE	———	NORMAL TEMP.
	3	TRANSFORMER #1 OR 5	———	COMMON WIRE
	4	NETWORK PROTECTOR #1 OR 5	———	OPEN POSITION
	5	NETWORK PROTECTOR #1 OR 5	———	COMMON WIRE
	6	NETWORK PROTECTOR #1 OR 5	———	CLOSED POSITION
	7-12	DITTO FOR TRANSFORMER AND NETWORK PROTECTOR #2 OR 6		
	13-18	DITTO FOR TRANSFORMER AND NETWORK PROTECTOR #3 OR 7		
	19-24	DITTO FOR TRANSFORMER AND NETWORK PROTECTOR #4 OR 8		
	25	SERVICE PROTECTOR-LEFT SWBD.	———	OPEN POSITION
	26	SERVICE PROTECTOR-LEFT SWBD.	———	COMMON WIRE
	27	SERVICE PROTECTOR-LEFT SWBD.	———	CLOSED POSITION
	28-30	DITTO FOR SERVICE PROTECTOR-RIGHT SWBD.		
	31-40	SPARES		

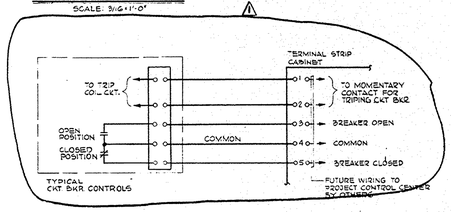


CONNECTION DIAGRAM OF METERING EQUIPMENT

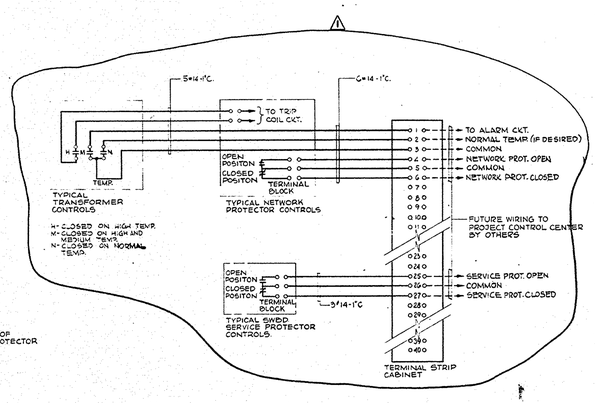
NOTE: ALL CONDUITS TO BE RUN EXPOSED (SEE NOTE #8)

SECTION "A-A"

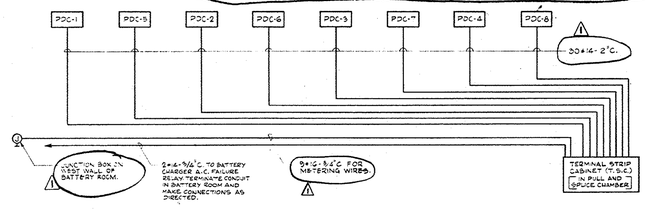
SCALE: 3/16"=1'-0"



TYPICAL REMOTE CONTROL WIRING CONNECTIONS FOR PRIMARY DISTRIBUTION CENTER

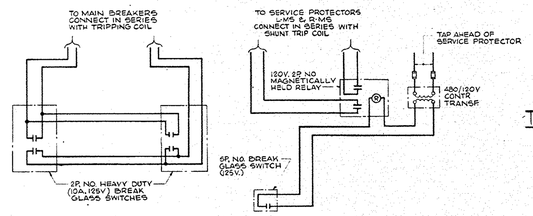


TYPICAL REMOTE CONTROL WIRING CONNECTIONS FOR NETWORK SUBSTATIONS



BLOCK DIAGRAM OF PRIMARY DISTRIBUTION CENTER REMOTE CONTROL WIRING

NOTE: RUN ALL CONDUITS EXPOSED



NOTE: PROVIDE CONTROL TRANSF & RELAY IN EITHER SWBD

BREAK GLASS SWITCH WIRING DIAGRAMS

CONTRACT BID DRAWING date OCT. 16, 1967

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

REVISIONS

APPROVED

CHIEF, PLANNING DIVISION

DATE

3/16" = 1'0" scale 0 4 8 12 16 feet

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: PRIMARY DISTRIBUTION CENTER PLAN, ELEVATIONS & SCHEDULES

DRAWN	R.F.H.	CHECKED	J.R.L.
SCALE	AS SHOWN	DATE	OCT. 16, 1967
PROJECT NUMBER		SHEET 5	OF 12
DRAWING NUMBER	E-X-3		

FileJuicer