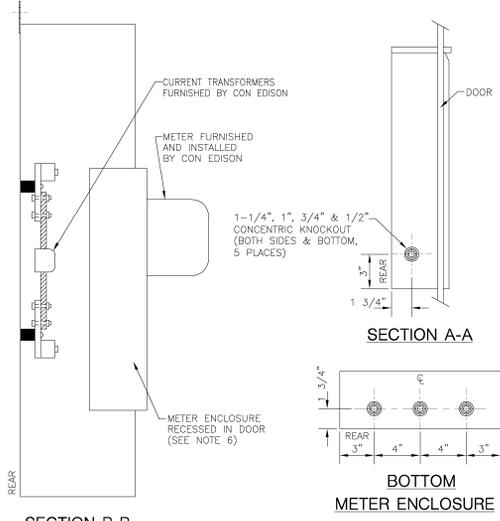
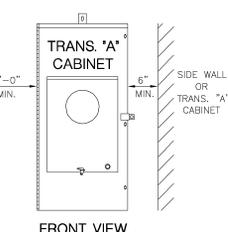
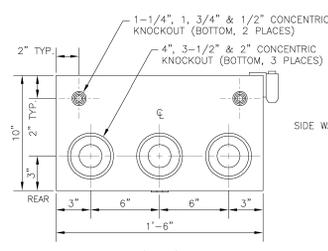
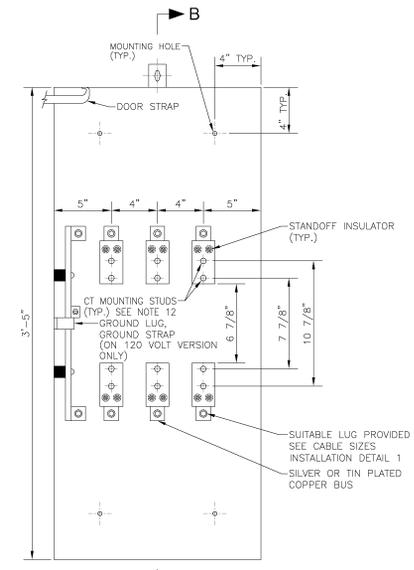
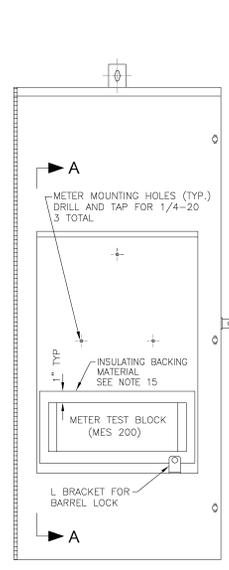
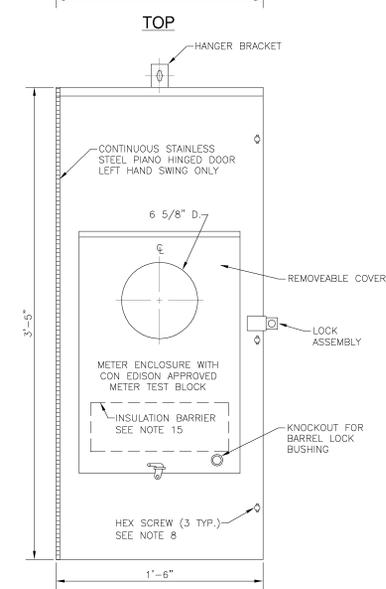
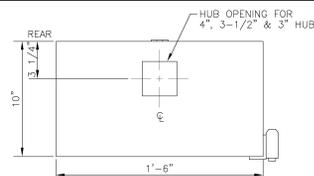


REVISIONS	
V.FERGUSON 11/3/97	0
V.FERGUSON 5/23/98	1
ADDED INSTALLATION DETAIL. CHANGED INSTALLATION DETAILS NO. 3 C.D.	6/23/98
V.FERGUSON 9/2/99	2
CHANGED INSTALLATION DETAILS NO. 2 ADDED NOTES NO. 15, 16 & 17. C.D.	9/2/99



NOTES:

- CABINET SHALL BE RATED NEMA 3R AND SHALL BE CONSTRUCTED FROM CODE GAUGE GALVANIZED OR GALVANNEALED STEEL.
- BUS BAR SHALL BE SILVER OR TIN PLATED AND SHALL BE SIZED PER THE NEC.
- BUS BAR SHALL BE MOUNTED IN THE CABINET BY MEANS OF STANDOFF INSULATORS OR INSULATED MOUNTING BRACKETS. INSULATING MATERIAL SHALL CONFORM TO THE APPLICABLE SECTIONS OF UL 746 AND ILL 94. CABINET SHALL BE UL AND N.Y.C. ADVISORY BOARD APPROVED.
- THE RIGHT HAND SIDE OF THE CABINET SHALL ALLOW FOR LINE AND LOAD CABLES TO ENTER AND EXIT THROUGH THE BOTTOM OF THE CABINET. THIS SPACE SHALL ALLOW FOR THE CABLES TO MEET MINIMUM BENDING RADIUS TO NEAREST PHASE OR NEUTRAL BUS AS PER NEC.
- THE SHORT CIRCUIT WITHSTAND CAPABILITY OF THE CABINET ASSEMBLY SHALL BE A MINIMUM OF 18,000 SYMMETRICAL AMPERES.
- METERING COMPARTMENT TO BE TOTALLY ISOLATED FROM C.T. COMPARTMENT.
- CABINET MAY BE DESIGNED WITH A SINGLE DOOR OR DOUBLE DOOR AS NECESSARY TO CONFORM WITH APPLICABLE STANDARDS. OVERALL DIMENSIONS TO BE KEPT TO A MINIMUM.
- HEX HEAD OR THUMB SCREWS MAY BE FURNISHED INSTEAD OF A THREE POINT LATCH.
- PROVISIONS FOR INSTALLATION OF CON EDISON APPROVED LOCKING DEVICES AND LOCKING DEVICE HARDWARE MUST BE PROVIDED. TO BE INSTALLED BY CONTRACTORS.
- CABINET DESIGN SHALL HAVE PROVISIONS FOR A SOLID DOOR TO ALLOW FOR THE METER ENCLOSURE TO BE MOUNTED REMOTELY FROM THE CABINET.
- METER ENCLOSURES MOUNTED ON CABINET DOOR WILL BE PROVIDED WITH #12 AWG STRANDED (19/25) THIN COPPER COLOR CODED WIRE FROM TEST SWITCH METERING COMPARTMENT INTO THE CT COMPARTMENT. LEAVE 5 FEET OF WIRE FOR FUTURE CONNECTION TO CURRENT TRANSFORMERS. ALL COLOR CODING AND WIRING CONNECTIONS TO BE IN ACCORDANCE WITH MES 195. EITHER HOOK OR RING TYPE INSULATED LUGS MAY BE PROVIDED AS TERMINATIONS FOR THE STRANDED WIRES TO THE BOTTOM OF THE TEST SWITCH.
- METER ENCLOSURES MOUNTED ON CABINET DOOR SHALL HAVE #12 WHITE SOLID COPPER WIRE, 12" LONG LEFT ABOVE THE METER TEST SWITCH FOR FINAL CONNECTIONS BY COMPANY FORCES.
- MANUFACTURER SHALL FURNISH AND INSTALL 1/2-13 STUDS, SPLIT LOCK WASHERS, RING WASHERS AND HEX NUT FOR CT MOUNTING.
- THIS STANDARD SHALL NOT BE USED AS A DESIGN CRITERIA. DIMENSIONS SHOWN ARE RECOMMENDED MINIMUMS ONLY.
- CABINET DOOR MUST HAVE PROVISIONS FOR GROUNDING TO THE CABINET.
- MINIMUM 1/8" THICK INSULATING MATERIAL OPPOSITE THE TEST SWITCH ON ALL METER COVERS. INSULATING BACKING MATERIAL MOUNTED UNDER THE METER TEST BLOCK, TO EXTEND 1" BEYOND TEST SWITCH, 265/460 VOLTS VERSION ONLY.
- A RED LABEL WITH BLACK LETTERING ON THE OUTSIDE OF METER ENCLOSURE "DANGER 277/480 VOLTS".
- A YELLOW LABEL WITH BLACK LETTERING INSIDE BOTH METER ENCLOSURE AND CT COMPARTMENT "CAUTION 277/480 VOLTS".

INSTALLATION DETAILS:

- MAXIMUM CABLE SIZES: 1 SET OF 500 KCMILS OR 2 SETS OF 4/0 AWG CU. LUG SIZE RANGES FROM 600 MCM- #4 DR (2) 250 KCMILS- 1/0 IF AL CABLES ARE USED.
- USE ONLY MANUFACTURER'S APPROVED LUG AND PREFABRICATED KNOCKOUTS PROVIDED.
- 1 FOOT CLEARANCE REQUIRED ON THE LEFT (HINGED) SIDE OF THE CABINET TO A WALL OR OBSTRUCTION FOR METER CLEARANCE. MINIMUM OF 6" CLEARANCE ON THE RIGHT (NON-HINGED) SIDE OF THE CABINET, NEEDED FOR INSTALLATION OF LOCKING DEVICES. SPACE BETWEEN ADJACENT CABINETS NO LESS THAN 6 INCHES. (SEE INSTALLATION DETAIL)
- 265/460 VOLT SERVICE REQUIRES A DISCONNECT SWITCH BEFORE THE CT CABINET.
- METER ENCLOSURES MOUNTED REMOTELY MUST CONFORM WITH MES 195 IN WIRE SIZING CONNECTIONS, COLOR CODING, ETC
- FINAL CONNECTIONS PER MES 195- FOR 4 WIRE INSTALLATIONS.
- FINAL CONNECTIONS PER MES 732- FOR 3 WIRE INSTALLATIONS. ORANGE, WHITE AND WHITE/TRACER WIRES ARE NOT USED.
- WHEN USED OUTDOORS, NEOPRENE GASKET (IF SUPPLIED) MUST BE PLACED AROUND METER BEFORE METER ENCLOSURE COVER IS INSTALLED.
- FINAL CONNECTIONS MADE AND LOCKS INSTALLED BY COMPANY FORCES.

REFERENCES:

- MES 195 - WIRING DIAGRAM FOR 200-800 AMP, BAR TYPE CURRENT TRANSFORMERS
- MES 200 - TEN POLE CONNECTION BLOCK
- MES 732 - WIRING DIAGRAM FOR TRANS.-A- CABINET RATED UP TO 400 AMPS FOR RESIDENTIAL USE IN WESTCHESTER COUNTY

**TRANS. "A" CABINET FOR LOW VOLTAGE
200A OR 400A SERVICE
SPEC. NO. MES 745**

CONSOLIDATED EDISON COMPANY of N.Y., INC.
DISTRIBUTION ENGINEERING DEPT

DATE 11/3/97	DWG. 310491	REV. 2
LAST REV. 9/2/99	NO.	

FIELD MANUALS
NO. 4: SERVICE INSTALLATIONS
SECT. 6: METER INSTALLATIONS
NO. 16: SERVICE INSP. & CONTROL
SECT. 3: ELECT. METERING