OVERALL WIRING DIAGRAM FOR VORTEX METER WITH LIMITORQUE VALVE & PRESSURE TRANSMITTER
CONSORTIUM EDISON COMPANY OF N.Y., INC.
STEAM DISTRIBUTION ENGINEERING

CONVERTED TO MICROSTATION
RD(SEA) 01/20/06

STEAM METER PANEL WIRING DIAGRAM

#1 VORTEX METER
#2 VORTEX METER
#3 VORTEX METER

KEP TOTALIZER #1 METER
KEP TOTALIZER #2 METER
KEP TOTALIZER #3 METER

PRESSURE TRANSMITTER

18 AWG. TWISTED STRANDED, COPPER, BRAID SHIELDED PAIR w/ 600V RATING (1/2 INCH CONDUIT)

14 AWG. STRANDED (TYP.)

#18 AWG. TWISTED STRANDED, COPPER, BRAID SHIELDED w/ 600V RATING (TYP.)

30 AMP, 1P FUSIBLE KEP DISCONNECT SWITCH #1

5 AMP, 2P FUSIBLE KEP DISCONNECT SWITCH #2

5 AMP, 2P FUSIBLE KEP DISCONNECT SWITCH #3

30 AMP, 3P FUSIBLE MAIN DISCONNECT SWITCH

60 VAC SUPPLY

CON ED NOTE:
GROUND SUPPLIED FROM BUILDING STEEL,
WATER MAIN, OR BUILDING GROUND BUS BAR

30 AMP, 3P FUSIBLE DISCONNECT SWITCH #2

60 AMP, 3P FUSIBLE DISCONNECT SWITCH #1

5 AMP, 2P FUSIBLE KEP DISCONNECT SWITCH #2

5 AMP, 2P FUSIBLE KEP DISCONNECT SWITCH #3

ALLEN-BRADLEY REVERSING CONTACTOR #1

ALLEN-BRADLEY REVERSING CONTACTOR #2

30 AMP, 3P FUSIBLE (POWER SUPPLY TO MOTOR OPERATED VALVE)

3#10 TO #2 MOV (POWER SUPPLY TO MOTOR OPERATED VALVE) SEE DETAIL "C"

4#10 TO #1 MOV (POWER SUPPLY TO MOTOR OPERATED VALVE) SEE DETAIL "C"

#14 STRANDED

#14 STRANDED (TYP.)

TO #1 M.O.V. MOTOR COMPARTMENT

5#14 (70 & X2 ARE CONNECTED TO CLOSE LIMIT SWITCH; 7 & 53 ARE CONNECTED TO CLOSE LIMIT SWITCH; 7 & 43 ARE CONNECTED TO OPEN LIMIT SWITCH) SEE DETAIL "F"

TO #2 M.O.V. MOTOR COMPARTMENT

5#14 (70 & X2 ARE CONNECTED TO CLOSE LIMIT SWITCH; 7 & 53 ARE CONNECTED TO CLOSE LIMIT SWITCH; 7 & 43 ARE CONNECTED TO OPEN LIMIT SWITCH) SEE DETAIL "F"

CON ED NOTE:
GROUNDED SUPPLIED FROM BUILDING STEEL,
WATER MAIN, OR BUILDING GROUND BUS BAR

#18 AWG. TWISTED STRANDED, COPPER, BRAID SHIELDED PAIR w/ 600V RATING (TYP.) (ONLY IF PRESSUER TRANSMITTER IS PRESENT)

#18 AWG. TWISTED STRANDED, COPPER, BRAID SHIELDED (1/2 INCH CONDUIT)

#18 AWG. TWISTED STRANDED, COPPER, BRAID SHIELDED w/ 600V RATING (TYP.) (1/2 INCH CONDUIT)