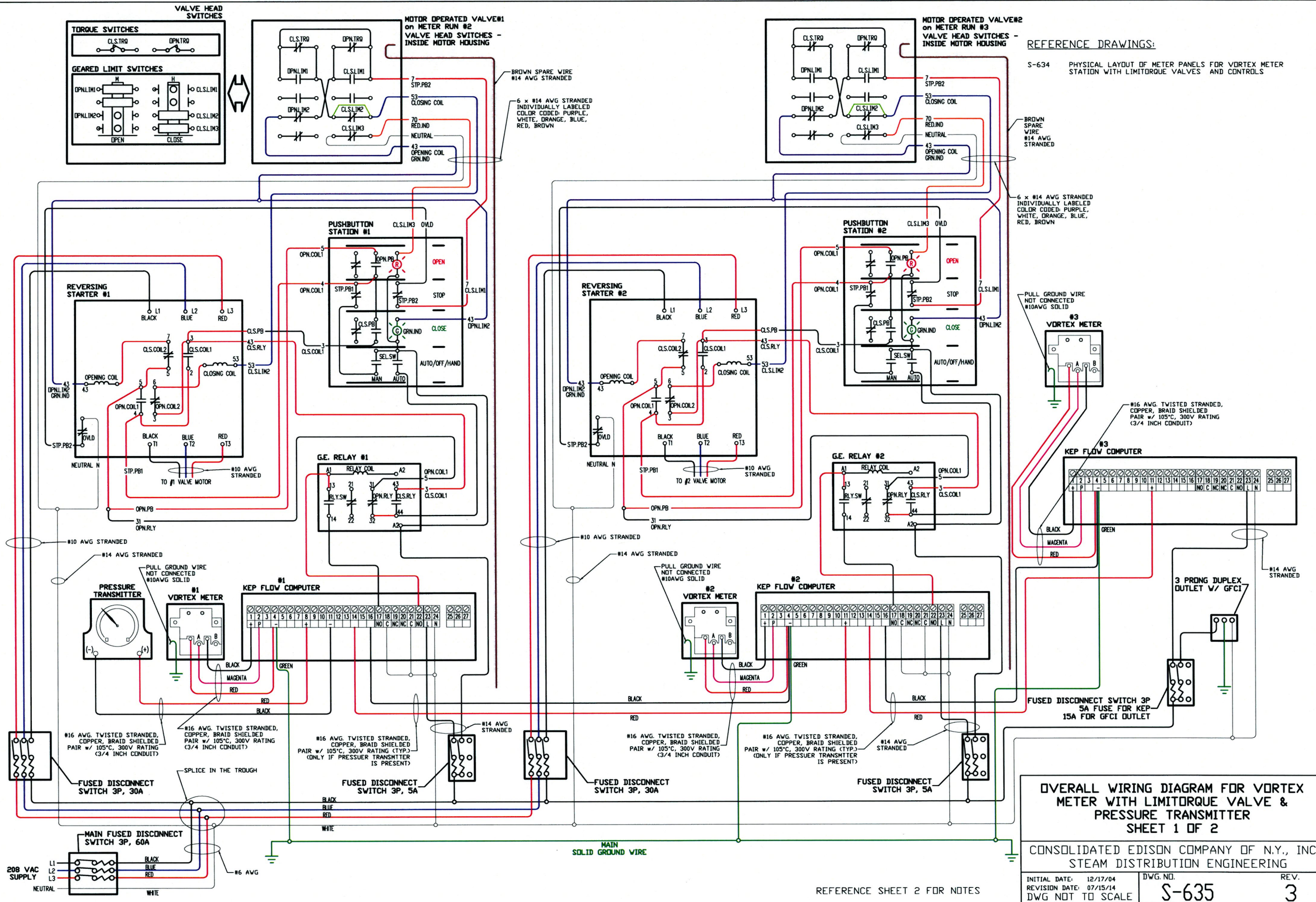


S89-S

REVISIONS

01/20/06 RD (SEA)	2
CONVERTED TO MICROSTATION	
07/15/14 JP, DK	3
ADDED USE OF TORQUE SWITCHES, REDRAWN WITH COMPLETE WIRING	



REFERENCE DRAWINGS:
S-634 PHYSICAL LAYOUT OF METER PANELS FOR VORTEX METER STATION WITH LIMITORQUE VALVES AND CONTROLS

#3 VORTEX METER
#16 AWG TWISTED STRANDED COPPER, BRAID SHIELDED PAIR w/ 105°C, 300V RATING (3/4 INCH CONDUIT)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
+	P	-																									

#3 KEP FLOW COMPUTER

3 PRONG DUPLEX OUTLET w/ GFCI
FUSED DISCONNECT SWITCH 3P, 5A FUSE FOR KEP 15A FOR GFCI OUTLET

OVERALL WIRING DIAGRAM FOR VORTEX METER WITH LIMITORQUE VALVE & PRESSURE TRANSMITTER SHEET 1 OF 2

CONSOLIDATED EDISON COMPANY OF N.Y., INC.
STEAM DISTRIBUTION ENGINEERING

INITIAL DATE: 12/17/04	DWG. NO.	REV.
REVISION DATE: 07/15/14	S-635	3
DWG NOT TO SCALE		

REFERENCE SHEET 2 FOR NOTES

SE9-S

REVISIONS

01/20/06 RD (SEA)	2
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CONVERTED TO
MICROSTATION

07/15/14 JP, DK	3
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ADDED USE OF
TORQUE SWITCHES,
REDRAWN WITH
COMPLETE WIRING

NOTES FOR ELECTRICAL INSTALLATION:

- A. INSTALLATION SHALL MEET THE REQUIREMENTS OF THE 'ELECTRIC CODE OF THE CITY OF NEW YORK' AND BE SUBJECT TO THE APPROVAL OF REGULATORY AUTHORITIES HAVING JURISDICTION.
- B. ALL CONDUCTORS SHALL BE COLOR CODED AND NUMBERED AS INDICATED AND BE OF SUFFICIENT AWG SIZE. ALL CONNECTIONS SHALL BE MADE ON TERMINALS AS SHOWN AND NOT SPLICED. STRANDED WIRE SHALL BE CONNECTED TO TERMINAL BY CRIMPS
- C. ALL MATERIAL AND WIRING SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR EXCEPT AS NOTED.
- D. THE METER PAN SHALL BE INSTALLED AT A MINIMUM HEIGHT OF 1' FROM FLOOR TO BOTTOM OF PAN.
- E. TO FACILITATE CHANGE OF EQUIPMENT, A MINIMUM OF 18"-30" OF FLEXIBLE, METALLIC, LIQUID TIGHT CONDUIT SHALL BE USED. A TERMINAL BOX SHALL BE USED TO CONNECT THE FLEXIBLE CONDUIT TO THE CONDUIT. THE TERMINAL BOX SHALL BE LOCATED AT A HORIZONTAL DISTANCE OF APPROXIMATELY 9" FROM THE VORTEX METER BODY.
- F. ALL POWER SUPPLY CABLE SHALL BE STRANDED WIRE, THHN TYPE (OR EQUIVALENT), AWG SIZE AS REQUIRED BY 'ELECTRIC CODE OF THE CITY OF NEW YORK.'
- G. VORTEX METER & PRESSURE TRANSMITTER: GROUND SHIELDS AT KEP ONLY.
- H. SIGNAL WIRE AND/OR CONDUCTORS WITHIN INSTRUMENT PANEL SHALL BE #16 AWG, STRANDED, (4 CONDUCTOR 2 TWISTED SHIELDED PAIRS), OVERALL SILVER PLATED COPPER SHIELDING (300V, 105°C MINIMAL RATING) TYPE UNLESS NOTED OTHERWISE IN DRAWINGS COLOR COATED AS INDICATED
- I. A.C. SUPPLY TO BE UNMETERED, CONNECT TO LINE SIDE OF COMPANY ELECTRIC METER. COMPANY TO MAKE FINAL CONNECTION TO ELECTRIC SERVICE.
- J. LEAVE ENOUGH SLACK WIRE AT ALL TERMINAL POINTS. 12" IN MOTOR TERMINAL BOX AND PANEL TROUGH.
- K. ALL EQUIPMENT, ENCLOSURE AND CONDUIT FITTINGS PROVIDING ACCESS TO UNMETERED ELECTRIC WIRING SHALL BE SEALABLE.
- L. PULL SHIELDS AND SHEATH ALL THE WAY INTO FLOW COMPUTER (TOTALIZER).
- M. GROUNDING REQUIREMENTS:
 - 1) BUILDING PROVIDED GROUNDING STRAP
 - 2) WATER MAIN SHUT-OFF, STREET SIDE
 - 3) BUILDING STEEL, SCRAPED CLEAN
 - 4) #10 AWG SOLID COPPER
 - 5) TEST FOR 1 OHM RESISTANCE TO GROUND
 - 6) NO GROUND CT CABINET OR 10PT METER PAN

OVERALL WIRING DIAGRAM FOR VORTEX
METER WITH LIMITORQUE VALVE &
PRESSURE TRANSMITTER
SHEET 2 OF 2

CONSOLIDATED EDISON COMPANY OF N.Y., INC.
STEAM DISTRIBUTION ENGINEERING

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