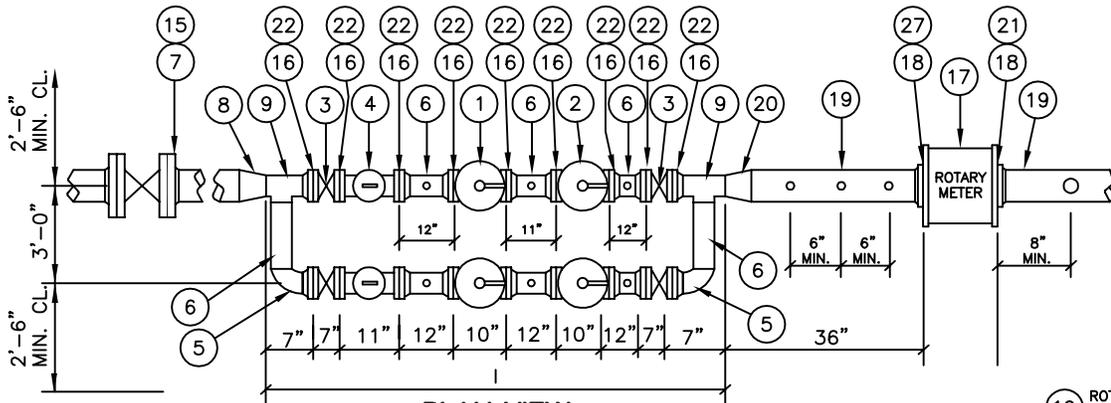


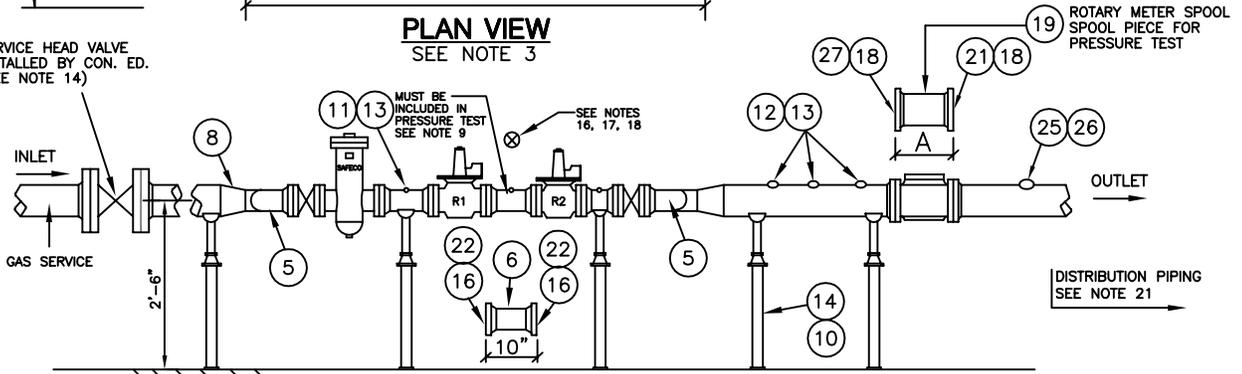
REVISIONS

K. LOOK	5/23/07	0
NEW ISSUE		
P.L.S.	5/23/07	
G. LUDWIG	3/1/12	1
ADDED ITEM 27. REVISED NOTE 4.		
D.J.	3/1/12	
G. LUDWIG	5/22/12	2
ADDED NOTE 20.		
D.J.	5/22/12	
G. LUDWIG	7/15/14	3
REVISED NOTES 10,11 & 13. REVISED ITEM 3 DESCRIPTION. ADDED REFERENCE TO YELLOW BOOK.		
D.J.	6/27/14	
G. LUDWIG	4/14/15	4
REVISED NOTE 10, ADDED NOTES 21 & 22. REVISED 6" METERS IN TABLE 2.		
G.L.	4/2/15	



PLAN VIEW  
SEE NOTE 3

SERVICE HEAD VALVE  
INSTALLED BY CON. ED.  
(SEE NOTE 14)



REGULATOR SPOOL PIECE FOR  
PRESSURE TEST (4 REQUIRED)  
ELEVATION VIEW

TABLE 1 - DIMENSION 'V', 'M', 'A' (SEE NOTES 6 & 7)

SIZE OF HEAD OF SERVICE VALVE	V	
SIZE OF METER FLANGE/PIPING	M	
SIZE OF METER FLANGE TO FLANGE	A	

TABLE 2 - DIMENSIONS 'A' & 'M'

METER	5M175TC 5M175TCID RM5000TC RM5000TCID	7M175TC 7M175TCID RM7000TC RM7000TCID	11M175TC 11M175TCID RM11000TC RM11000TCID 16M175TC 16M175TCID RM16000TC RM16000TCID RM23000TC RM23000TCID	RM38000DCID RM56000DCID
A	6.75"	9.5"	9.5"	16.0"
M	3"	4"	4"	6"

TABLE 3 - REGULATOR CONFIGURATIONS

SPECIFIED REGULATORS	APPLICABLE PRESSURE SYSTEM	R1	R2
2"-133HP	MEDIUM/HIGH	2"-133HP	2"-133HP
2"-99 / 2"-133HP	MEDIUM/HIGH	2"-133HP	2"-99
2"-133L	MEDIUM	2"-133L	2"-133L
2" MOONEY FLOWGRID	HIGH	2" FLOWGRID	2" FLOWGRID

BILL OF MATERIALS

ITEM	DESCRIPTION	SPEC. OR STD.	QUANTITY
1	2" REGULATOR (R1), 150 LB. SUPPLIED BY CON ED (TABLE 3)		2
2	2" REGULATOR (R2), 150 LB. SUPPLIED BY CON ED (TABLE 3)		2
3	2" 150 LB. BALL VALVE (SEE TABLE 2, YELLOW BOOK)		4
4	2" GFR - APOLLO GAS FILTER, SUPPLIED BY CON ED		2
5	2" SHORT RADIUS 90° ELBOW, SCH. 40	ASME B16.28	2
6	2" STEEL PIPE, SCH. 40	ASTM - A106 GRADE "B"	AS REQ'D.
7	V" STEEL FLANGE, 150 LB., FLAT OR RAISED FACE (TO MATCH VALVE FLANGE) (SEE NOTE 6)	ASME B16.5	1
8	V" x 2" CONCENTRIC STD. STEEL REDUCER, IF REQUIRED	ASME B16.9	1
9	2" x 2" x 2" STEEL TEE, SCH. 40	ASME B16.9	2
10	BAKELITE, NEOPRENE, OR EQUIV. INSULATING MAT'L (SEE NOTE 8)		AS REQ'D.
11	2" x 1/2" THREADOLET		9
12	M" x 1/2" THREADOLET		3
13	1/2" STEEL SQUARE HEAD PLUG	ASME B16.4	9
14	PIPE SUPPORT	EO-7043	AS REQ'D.
15	FLANGE INSULATING KIT V" (SEE NOTE 6)		1
16	2" STEEL FLANGE, RAISED FACE, 150 LB.		24
17	M" ROTARY METER, 3", 4" OR 6" SUPPLIED BY CON ED (TABLE 2)		1
18	M" STEEL FLANGE, FLAT FACE 150 LB.	ASME B16.5	4
19	M" STEEL PIPE, SCH. 40	ASTM - A106 GRADE "B"	AS REQ'D.
20	M" x 2" STEEL REDUCER	ASME B16.9	1
21	M" x 1/16" 150 LB. FULL FACE GASKET (SEE NOTES 4 & 19)		4
22	M" x 1/16" 150 LB. RING GASKET (SEE NOTE 4)		26
23	2" VENT CAP 90 ELBOW WITH SCREEN - UPSCO		2
24	2" ELBOW MALLEABLE, THREADED, 150 LB.	ASME B16.3	2
25	M" x 1" TREADOLET (SEE NOTE 5)		1
26	1" STEEL SQUARE HEAD PLUG	ASME B16.4	1
27	M" x 1/16" 150 LB. FULL FACE GASKET STRAINER (SEE NOTE 4)	G-8220	1

METERING SPECIFICATIONS  
AND PROCEDURES  
VOLUME #3  
YELLOW BOOK

NOTES:

- ALL MATERIAL SHALL BE FURNISHED AND INSTALLED BY THE CUSTOMER EXCEPT FOR THE FILTERS AND REGULATORS WHICH ARE FURNISHED BY THE COMPANY AND INSTALLED BY THE CUSTOMER, AND THE METER WHICH IS FURNISHED AND INSTALLED BY THE COMPANY.
- DO NOT INCLUDE REGULATORS OR METER IN PRESSURE TEST. USE SPOOL PIECES SHOWN ON DRAWING.
- IF THE INSTALLATION CANNOT BE MADE AS SHOWN, CONTACT GAS MEASUREMENT.
- GASKET MATERIAL SHALL BE GARLOCK 3000 (1/16" THICK). GASKET STRAINER CONTAINS A 60 MESH STAINLESS STEEL SCREEN.
- ALL THREADOLETS MUST BE FULL BORE, FILLET WELDED AND PLUGGED. DO NOT WELD WITH METERS INSTALLED.
- THE LETTER V REPRESENTS THE SERVICE HEAD VALVE FLANGE SIZE, THE LETTER M REPRESENTS THE METER FLANGE SIZE, AND THE LETTER A REPRESENTS THE METER FLANGE TO FLANGE DIMENSION. SEE TABLE 1 FOR EXACT SIZES. IF TABLE 1 IS NOT COMPLETED, CONTACT THE ASSIGNED ENERGY SERVICE REPRESENTATIVE.
- TABLE 1 MUST BE COMPLETED BY ASSIGNED ENERGY SERVICE REPRESENTATIVE BEFORE PROVIDING TO CONTRACTOR.
- INSULATING MATERIAL MUST BE INSTALLED BETWEEN THE PIPE SUPPORTS AND THE PIPE, SO THAT THE PIPE NEVER MAKES CONTACT WITH THE PIPE SUPPORT.
- A PRESSURE TEST MUST BE CONDUCTED AT 200 PSIG.
- EXCEPT FOR WHERE FLANGED COMPONENTS ARE CALLED FOR, ALL METER PIPING (PIPING FROM THE HEAD OF SERVICE VALVE TO METER OUTLET) SHALL BE BUTT WELDED. ALL BUTT WELDS FROM THE HEAD OF SERVICE VALVE TO THE REGULATOR CLOSEST TO THE METER SHALL BE RADIOGRAPHED. FOR CUSTOMER DELIVERY PRESSURES EXCEEDING 5 PSIG, ALL BUTT WELDS ON METER PIPING SHALL BE RADIOGRAPHED.
- PIPE SUPPORT OR ANY BRACING SHALL NOT BE WELDED TO METER/DISTRIBUTION PIPING AND SHALL BE INSTALLED PER G-695.
- IF A DOMESTIC REGULATOR METER SET IS REQUIRED, IT SHALL BE INSTALLED IMMEDIATELY AFTER SERVICE HEAD VALVE WITH AN ISOLATION VALVE.
- REFER TO YELLOW BOOK FOR FURTHER INFORMATION.
- FOR WESTCHESTER, CUSTOMER'S CONTRACTOR SHALL INSTALL SERVICE HEAD VALVE WHERE APPLICABLE.
- ALL OUTDOOR PIPING SHALL BE PAINTED WITH SUITABLE NON-LEAD OUTDOOR PAINT FOR USE ON METAL SURFACES.
- REFER TO EO-17118 - "REGULATOR VENT INSTALLATION" FOR VENT PIPE INSTALLATION, CAPS AND TERMINUS LOCATION REQUIREMENTS. SINCE THESE REGULATORS DO NOT UTILIZE FULL CAPACITY RELIEF, VENT PIPING SHALL BE 2" IN DIAMETER.
- EACH REGULATOR SHALL BE SEPARATELY VENTED.
- FOR INSIDE REGULATOR INSTALLATIONS, THE CUSTOMER SHALL INSTALL 2" VENT PIPE FROM OUTDOOR VENT CAP ALONG INSIDE WALL TO A POINT WITHIN 2' OF EACH REGULATOR RUN. COMPANY TO MAKE FINAL CONNECTION TO VENT LINE.
- FOR ANY DOWNSTREAM PIPING BELOW GRADE REFER TO SPEC G-8205.
- OUTDOOR METER SETS SHALL BE PROTECTED BY A 6 FOOT HIGH LOCKABLE FENCE, CHAIN-LINK, OR EQUIVALENT. THE FENCE SHALL BE EQUIPPED WITH A DOUBLE HASP LOCK TO ALLOW ACCESS BY CON EDISON AND THE CUSTOMER.
- DISTRIBUTION PIPING EXCLUDING METER PIPING MUST MEET ALL WELDING, SPECIAL INSPECTION, AND RADIOGRAPHY REQUIREMENTS OF THE NYC BUILDING CODE OR OTHER AUTHORITY HAVING JURISDICTION.
- FOR INSTALLATIONS HAVING BRANCH LINES THAT ARE SEPARATELY METERED AND/OR SEPARATELY REGULATED, REFER TO SPEC. G-703 FOR PIPE SIZING REQUIREMENTS.

INSTALLATION OF PARALLEL 2" REGULATORS  
WITH ROTARY METER INDOORS AND  
OUTDOORS 10,000 CFH TO 50,000 CFH

CONSOLIDATED EDISON COMPANY OF N.Y., INC.  
GAS ENGINEERING DEPT.

DATE 4/9/07  
LAST REV. 4/14/15

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