

EO-14837-B

REVISIONS

J. BRITO / R.GROGAN 8
 REDRAWN BY CAD, UPDATED THE DRAWING, CREATED NEW SHEET # 2 BILL OF MATERIAL.
 R.A.J. 12/22/04

M. BALDOVIN 9
 ADDED BOLDED TEXT

H. D. 10-29-09

M. BALDOVIN 10
 REVISED NOTES B, F, G, & H
 H. D. 02-15-12

M. BALDOVIN 11
 03-31-17
 REVISED NOTE C TO ALLOW USE OF METFIT FITTINGS. ADDED "PICKING UP AN EXISTING COPPER TUBING SERVICE" DETAIL.
 ADDED NOTE L.
 ADDED ITEM 20, ELECTROFUSION SPA SADDLE.
 ADDED ITEM 21, ADJUSTABLE ELECTROFUSION COUPLING.
 REPLACED SIDEWALL FUSION TAPPING TEE WITH ELECTROFUSION TAPPING TEE IN "PICKING UP AN EXISTING STEEL SERVICE" DETAIL.

J.F. 03-23-17
 C.S. 03-31-17

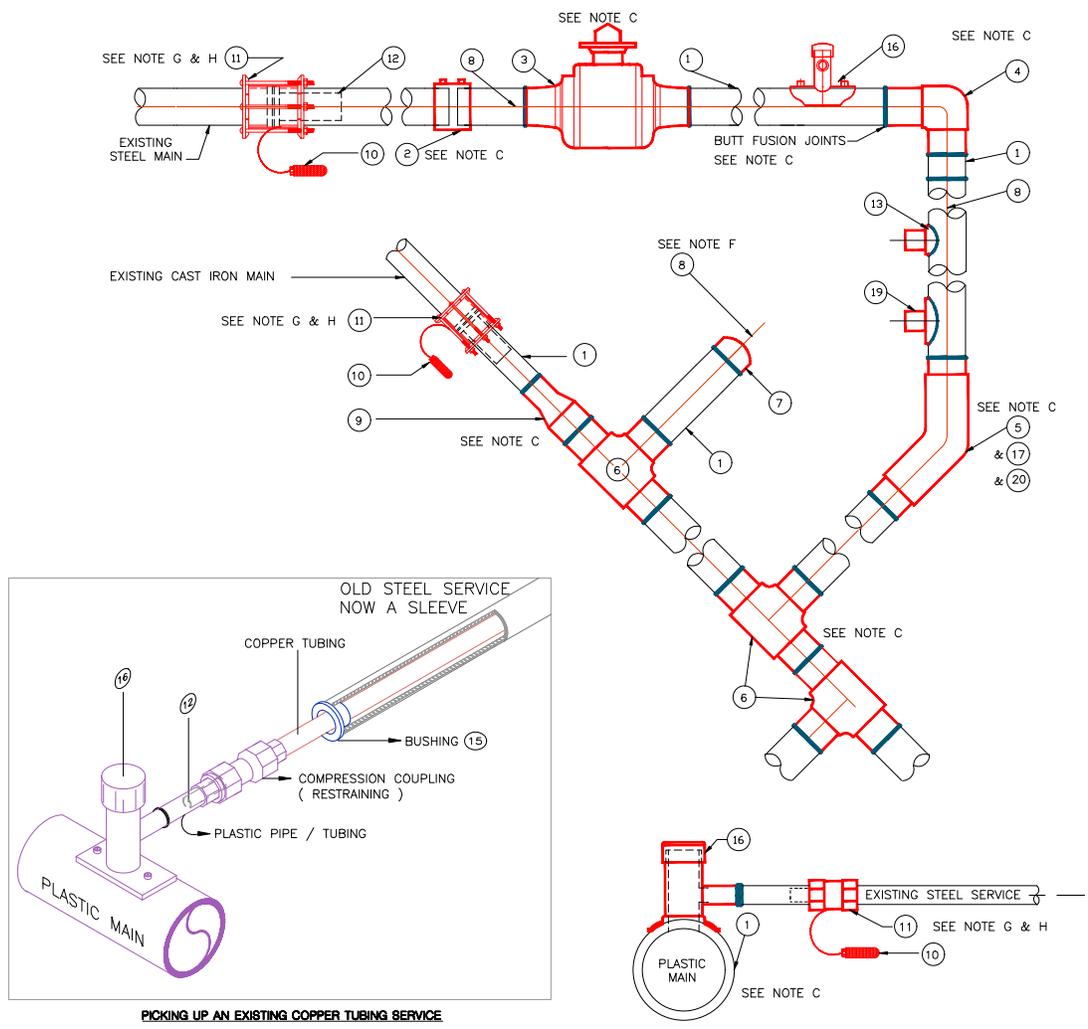
J. MOAWAD 12
 06-10-22

MOVED ITEM 1 TO GAS MAIN
 R.R. 06-10-22

M. KALLOO 13
 07/14/25

REPLACED FABRICATED 4-WAY TEE (FORMERLY ITEM 15) WITH TWO 3-WAY TEES (ITEM 6) DUE TO ABOLISCEANCE OF FABRICATED 4-WAY TEE.
 REMOVED SECTION REGARDING SDR 15.5 BECAUSE IT IS NO LONGER BEING USED.
 DELETED 10" (PE TO C) FROM NOTE G.
 C.S. 07/14/25

CONSTRUCTION STANDARDS VOLUME 2



NOTES:

- A. PLASTIC PIPE WITH AN SDR OF 11.0 IS APPROVED FOR INSTALLATIONS UP TO AND INCLUDING 100 PSIG.
- B. ALL PIPE/TUBING AND ASSOCIATED FITTINGS ARE TO BE INSPECTED PRIOR TO INSTALLATION. ANY PIPE/TUBING OR FITTING FOUND TO BE DAMAGED TO A DEPTH GREATER THAN 10% OF THE WALL THICKNESS SHALL NOT BE USED. SEE SPEC. G-8122 "TRANSPORTATION, HANDLING AND STORAGE OF POLYETHYLENE PLASTIC PIPE/TUBING AND FITTINGS FOR GAS MAINS AND SERVICES." ALL PIPE AND FITTINGS SHALL ALSO BE CHECKED FOR OBSTRUCTIONS (E.G. END CAPS, DEBRIS, DIRT) PRIOR TO TIE-IN AS PER SPEC. G-8005 "GENERAL SPECIFICATION FOR THE INSTALLATION OF GAS DISTRIBUTION MAINS".
- C. PE PLASTIC MOLDED FITTINGS WITHOUT PUP LENGTHS **CAN ONLY** BE JOINED TO PE PLASTIC PIPE, TUBING AND OTHER MOLDED FITTINGS BY HEAT FUSION, ELECTROFUSION, OR METFIT FITTINGS. (SEE GAS SPECIFICATION G-8104 FOR APPROVED FITTINGS WITH PUP LENGTHS OF PE PLASTIC PIPE OR TUBING). (SEE G-100,285 FOR APPROVED METFIT FITTINGS). WITH THE EXCEPTION OF METFIT FITTINGS, MECHANICAL FITTINGS **CANNOT** BE INSTALLED **DIRECTLY** ONTO A PLASTIC MOLDED FITTING WITHOUT PUP LENGTHS OF PE PLASTIC PIPE OR TUBING.
 INSTALL AND INSPECT METFIT MECHANICAL FITTINGS AS PER MANUFACTURER'S PROCEDURES. MOLDED FITTINGS SHALL **NOT** BE ALTERED IN ORDER TO UTILIZE METFIT FITTINGS.
- D. THE SDR SIZE OF THE STIFFENER **MUST** CORRESPOND WITH THE SDR SIZE OF THE PIPE.
- E. INSTALL THE "WARNING BURIED GAS LINES BELOW" TAPE A MINIMUM OF 12" ABOVE THE TOP OF THE DIRECT BURIED NEW / REPLACEMENT MAIN. WHEN NEW / REPLACEMENT MAINS ARE TO BE INSERTED, THE TAPE IS TO BE INSTALLED IN ALL TIE-IN AND SERVICE EXCAVATIONS.
- F. TAPE A #14 OR #12 INSULATED COPPER TRACER WIRE TO ALL DIRECT BURIED/ TRENCHLESS/ INSERTED PLASTIC MAINS AS PER SPEC. G-8005. ENSURE THE TRACER WIRE IS EITHER CONNECTED TO THE EXISTING TRACER WIRE OR BROUGHT UP INSIDE A CURB VALVE BOX FOR FUTURE LOCATING OF THE GAS MAIN.
- G. RESTRAINING COUPLINGS SHALL BE USED TO MAKE COUPLED PIPE CONNECTIONS. SEE SPEC. G-8153 "REINFORCING COMPRESSION FITTINGS." TRANSITION FITTINGS SHALL ONLY BE USED TO JOIN PE PIPE TO CAST IRON OR STEEL FOR 16" SINCE RESTRAINING COUPLINGS ARE NOT AVAILABLE IN THESE SIZES. SEE SPEC. G-8100 "GENERAL SPECIFICATION FOR THE INSTALLATION OF GAS DISTRIBUTION SERVICES."
- H. METALLIC FITTINGS AND STEEL MAINS SHALL BE COATED AND HAVE ANODES INSTALLED AS PER SPEC. G-8205 "CORROSION CONTROL OF BURIED STEEL GAS DISTRIBUTION MAINS AND SERVICES."
- I. IF THE EO DRAWING CONFLICTS WITH G-8005 "GENERAL SPECIFICATION FOR THE INSTALLATION OF GAS DISTRIBUTION MAINS", THEN THE SPECIFICATION G-8005 SHALL PREVAIL.
- J. WHEN JOINING DISSIMILAR SDR PLASTIC PIPE (e.g., 9.3 TO 11 OR 11- 15.5) USE AN ELECTROFUSION COUPLING TO ACCOMPLISH THE JOINING.
- K. WHEN "TIE-IN" NEW PLASTIC PIPE TO AN EXISTING PLASTIC PIPE, USE AN ELECTROFUSION COUPLING FOR THE "TIE-IN".
- L. IN ADDITION TO TRACER WIRE AND WARNING TAPE, INSTALL ELECTRONIC MARKERS (EM) PER GAS DRAWING 502664 (E.G. AT THE END OF EACH CASING PIPE, CHANGE IN MATERIAL, MAIN TIES OR CROSSES, OFF-SETS, MAIN VALVES, STUB ENDS, MAIN-TO-SERVICE CONNECTIONS).

INSTALLATION OF DIRECT BURIED POLYETHYLENE GAS MAINS	
CONSOLIDATED EDISON COMPANY OF N.Y., INC. GAS ENGINEERING DEPT	
DATE CREATED: 12/22/04	DWG. NO. EO-14837-B REV. 13
LAST REVISED: 07/14/25	SHEET 1 OF 2

E0-14837-B

REVISIONS	
J. BRITO / R.GROGAN	0
REDRAWN BY CAD. CREATED NEW SHEET # 2. UPDATED BILL OF MATERIAL FOR DWG E0-14837-B RAL 12/22/04	
M. BALDOVIN	1
UPDATED BILL OF MATERIALS FOR DWG. E0-14837-B H. D. 10-29-09	
M. BALDOVIN	2
UPDATED BILL OF MATERIALS FOR DWG. E0-14837-B H. D. 02-15-12	
M. BALDOVIN	3
CORRECTED ITEM NO.1; DELETED REDUCED PORT BALL VALVES FROM ITEM 3 H. D. 03-12-12	
M. BALDOVIN	4
UPDATED ITEM 8. UPDATED ITEM 12. REMOVED OLD ITEM 16, SIDEWALL FUSION TAPPING TEE. ADDED NEW ITEM 16, BUSHING END PROTECTOR. ADDED ITEM 20, ADJUSTABLE ELECTROFUSION COUPLINGS. J.F. 03-23-17 C.S. 03-31-17	
J. MOAWAD	5
UPDATED ITEM 7 UPDATED ITEM 17 R.R. 08-22-22	
M. KALLOO	6
DELETED FORMER ITEM 15 (FABRICATED CROSS TEE) UPDATED BILL OF MATERIALS FOR ITEM 6,13,20. C.S. 07/14/25	
CONSTRUCTION STANDARDS VOLUME 2	

ITEM NO.	ITEM	DESCRIPTION	CLASS & STOCK NO.		
1	POLYETHYLENE (PE) GAS MAIN SPEC G-8104	1" IPS 500' COIL	SDR 11.0 328-0351		
		1-1/4" IPS 500' COIL	SDR 11.0 328-0359		
		2" IPS 20' LENGTH	SDR 11.0 328-0561		
		2" IPS 40' LENGTH	SDR 11.0 328-0856		
		2" IPS 350' COIL	SDR 11.0 328-0377		
		3" IPS 20' LENGTH	SDR 11.0 328-0553		
		3" IPS 40' LENGTH	SDR 11.0 328-0385		
		4" IPS 20' LENGTH	SDR 11.0 328-0575		
		4" IPS 40' LENGTH 1	SDR 11.0 328-0393		
		6" IPS 20' LENGTH	SDR 11.0 328-0567		
		6" IPS 40' LENGTH	SDR 11.0 328-0401		
		8" IPS 20' LENGTH	SDR 11.0 328-0569		
		8" IPS 40' LENGTH	SDR 11.0 328-0541		
		12" IPS 40' LENGTH	SDR 11.0 328-0541		
		16" IPS 40' LENGTH	SDR 11.0 320-0053		
		2	ELECTROFUSE COUPLING SPEC. G-8104	1-1/4" IPS	341-3916
2" IPS	341-5387				
3" IPS	341-5403				
4" IPS	341-5379				
6" IPS	341-5395				
8" IPS	341-5411				
12" IPS	341-5429				
16" IPS	341-5858				
3	REDUCER SPEC. G-100,298			1" IPS FULL PORT BALL	SDR 11.0 374-1369
				1-1/4" IPS FULL PORT BALL	SDR 11.0 374-1369
		2" IPS FULL PORT BALL	SDR 11.0 379-4229		
		3" IPS FULL PORT BALL	SDR 11.0 379-7412		
		4" IPS FULL PORT BALL	SDR 11.0 379-7271		
		6" IPS FULL PORT BALL	SDR 11.0 374-2921		
		8" IPS FULL PORT BALL	SDR 11.0 374-2939		
		12" IPS FULL PORT BALL	SDR 11.0 379-7198		
		16" IPS FULL PORT BALL	SDR 11.0 374-0263		
		1" IPS	MOLDED 341-1378		
		1-1/4" IPS	ELECTROFUSE 341-1350		
		2" IPS	MOLDED 341-1360		
		3" IPS	ELECTROFUSE 341-1207		
		4" IPS	MOLDED 341-1362		
		6" IPS	ELECTROFUSE 341-1357		
		8" IPS	MOLDED 341-1345		
4	90° ELBOW SPEC. G-8104	4" IPS	ELECTROFUSE 341-1208		
		4" IPS	MOLDED 341-1337		
		6" IPS	ELECTROFUSE 341-1203		
		6" IPS	MOLDED 341-2055		
		8" IPS	ELECTROFUSE 341-1210		
		8" IPS	MOLDED 341-3044		
		10" IPS	MOLDED 341-4141		
		12" IPS	MOLDED 341-3796		
		1-1/4" IPS	ELECTROFUSE 341-1353		
		2" IPS	ELECTROFUSE 341-1203		
		3" IPS	ELECTROFUSE 341-1354		
		3" IPS	MOLDED 341-2103		
		4" IPS	ELECTROFUSE 341-1205		
		4" IPS	MOLDED 341-2111		
		6" IPS	MOLDED 341-2160		
		8" IPS	ELECTROFUSE 341-1211		
5	45° ELBOW SPEC. G-8104	6" IPS	MOLDED 341-2806		
		10" IPS	MOLDED 341-4091		
		12" IPS	MOLDED 341-3804		
		1" IPS	MOLDED 341-1329		
		1-1/4" IPS	ELECTROFUSE NS0247959		
		1-1/4" IPS	MOLDED 341-1311		
		2" IPS	ELECTROFUSE NS0247960		
		2" IPS	MOLDED 341-1303		
		3" IPS	ELECTROFUSE NS0247961		
		3" IPS	MOLDED 341-1295		
		4" IPS	ELECTROFUSE NS0247962		
		4" IPS	MOLDED 341-1287		
		6" IPS	ELECTROFUSE NS0247963		
		6" IPS	MOLDED 341-2137		
		8" IPS	ELECTROFUSE NS0247966		
		6	3 WAY TEE SPEC. G-8104	8" IPS	MOLDED 341-2830
12" IPS	ELECTROFUSE NS0247966				
12" IPS	MOLDED 341-3853				
12" X 4" IPS	332-2181				
12" X 6" IPS	332-2182				
12" X 8" IPS	332-2183				
12" IPS DRIP TEE	341-1937				
16" X 4" IPS	341-2485				
16" X 6" IPS	341-2486				
16" X 8" IPS	341-2487				
16" X 12" IPS	341-2488				
1-1/4" IPS	MOLDED 341-1279				
2" IPS	ELECTROFUSE 341-1869				
2" IPS	MOLDED 341-1261				
3" IPS	ELECTROFUSE 341-1870				
3" IPS	MOLDED 341-1253				
4" IPS	ELECTROFUSE 341-1871				
4" IPS	MOLDED 341-1246				
6" IPS	ELECTROFUSE 341-1872				
6" IPS	MOLDED 341-1238				
8" IPS	ELECTROFUSE 341-1873				
8" IPS	MOLDED 341-3184				
10" IPS	MOLDED 341-4133				
12" IPS	MOLDED 341-2225				
16" IPS	MOLDED 341-5841				
8	YELLOW INSULATED COPPER TRACER WIRE SPEC. G-8005 (SEE NOTE 6)	12# GAUGE	563-0040		
9	REDUCER SPEC. G-8104	1-1/4" IPS X 1" IPS	MOLDED 341-4620		
		2" IPS X 1-1/4" IPS	ELECTROFUSE 341-0441		
		2" IPS X 1-1/4" IPS	MOLDED 341-1220		
		3" IPS X 2" IPS	MOLDED 341-1212		
		4" IPS X 2" IPS	MOLDED 341-2855		
		6" IPS X 4" IPS	ELECTROFUSE 341-1362		
		6" IPS X 4" IPS	MOLDED 341-4057		
		8" IPS X 6" IPS	ELECTROFUSE 341-1364		
		8" IPS X 6" IPS	MOLDED 341-2817		
		10" IPS X 8" IPS	MOLDED 341-4109		
12" IPS X 8" IPS	MOLDED 341-3861				
12" IPS X 10" IPS	MOLDED 341-4927				
10	MAGNESIUM ANODES (SEE NOTE 6) SPEC. G-8102 & G-8205	31 R	079-0014		
		17 LB	079-0030		
		32 LB	079-0046		

ITEM NO.	ITEM	DESCRIPTION	CLASS & STOCK NO.		
11	RESTRAINING COUPLING SPEC. G-100,298	1" CTS (CU-PE)	PLASTIC COUPLING 341-5551		
		1" IPS (ST-PE, PE-PE)	BOLTLESS COUPLING 337-8841		
		1-1/4" CTS (CU-PE)	PLASTIC COUPLING 341-5535		
		1-1/4" IPS (ST-PE, PE-PE)	BOLTLESS COUPLING 337-8838		
		1-1/4" X 1" IPS (ST-PE, PE-PE)	BOLTLESS COUPLING 337-8882		
		1-1/2" IPS (ST-PE, PE-PE)	BOLTLESS COUPLING 337-8858		
		1-1/2" X 1" IPS (ST-PE, PE-PE)	BOLTLESS COUPLING 337-8890		
		1-1/2" X 1-1/4" IPS (ST-PE, PE-PE)	BOLTLESS COUPLING 337-8908		
		2" IPS (ST-PE, PE-PE)	BOLTLESS COUPLING 337-8106		
		2" X 1" IPS (ST-PE, PE-PE)	BOLTLESS COUPLING 337-8910		
		2" X 1-1/4" IPS (ST-PE, PE-PE)	BOLTLESS COUPLING 337-8924		
		2" X 1-1/2" IPS (ST-PE, PE-PE)	BOLTLESS COUPLING 337-8932		
		3" IPS (ST-PE, PE-PE, ST-ST)	BOLTLESS COUPLING 337-8700		
		4" IPS (ST-PE, PE-PE, ST-ST)	BOLTLESS COUPLING 337-7970		
		4" X 3" IPS (ST-PE, PE-PE, ST-ST)	BOLTLESS COUPLING 337-8742		
		4" X 3" IPS (ST-PE, PE-PE, ST-ST)	BOLTLESS COUPLING 337-8754		
		6" IPS (CU-PE)	BOLTLESS COUPLING 337-8757		
		6" X 4" IPS (ST-PE, PE-PE, ST-ST)	BOLTLESS COUPLING 337-8665		
		6" X 4" IPS (ST-PE, PE-PE, ST-ST)	BOLTLESS COUPLING 337-8892		
		8" IPS (ST-PE, PE-PE, ST-ST)	BOLTLESS COUPLING 337-8007		
		8" IPS (CU-PE)	BOLTLESS COUPLING 337-8759		
		8" IPS (OS, CI-PE, CI-ST)	BOLTLESS COUPLING 337-8783		
		12" IPS (SI-PE, PE-PE, ST-SI)	BOLTLESS COUPLING 337-9534		
		1/2" CTS	090° WT 337-5938		
1" CTS (CU-PE)	090° WT 337-7314				
1-1/4" CTS (CU-PE)	090° WT 337-7322				
12	GIT TRENCH SPEC. G-100,291 (SEE NOTE 6)	1" IPS	SDR 11 337-9351		
		1-1/4" IPS	SDR 11 337-8080		
		2" IPS	SDR 11 337-8072		
		3" IPS	SDR 11 337-8718		
		4" IPS	SDR 11 337-7819		
		6" IPS	SDR 11 337-7199		
		8" IPS	SDR 11 337-7991		
		12" IPS	SDR 11 337-9666		
		13	BRANCH SADDLE SPEC. G-8104 (CONTACT GAS DEVELOPMENT LAB FOR ELECTROFUSION BRANCH SADDLE ITEMS)	4" IPS X 4" IPS	ELECTROFUSE
				6" IPS X 4" IPS	ELECTROFUSE
				6" IPS X 6" IPS	ELECTROFUSE
				8" IPS X 4" IPS	ELECTROFUSE
10" IPS X 6" IPS	ELECTROFUSE				
10" - 22" IPS X 2" IPS	ELECTROFUSE				
10" - 16" IPS X 4" IPS	ELECTROFUSE				
12" IPS X 4" IPS	ELECTROFUSE				
12" IPS X 6" IPS	ELECTROFUSE				
12" IPS X 8" IPS	ELECTROFUSE				
16" IPS X 6" IPS	MOLDED				
16" IPS X 8" IPS	MOLDED				
14	"WARNING BURIED GAS LINES BELOW" TAPE (SEE NOTE 6)		024-6660		
15	BUSHING END PROTECTOR SPEC. G-8005	2" IPS	341-2269		
		1-1/2" IPS	341-2251		
		1-1/4" IPS	341-2244		
		1" IPS	341-2236		
		3/4" IPS	341-2228		
16	ELECTROFUSION TAPPING TEE SPEC. G-8104	1-1/4" IPS X 1/2" CTS	338-7099		
		1-1/4" IPS X 1" IPS	341-7081		
		2" IPS X 1/2" CTS	341-5635		
		2" IPS X 1" IPS	341-5643		
		2" IPS X 2" IPS	337-9757		
		3" IPS X 1" IPS	341-1036		
		3" IPS X 1-1/4" CTS	341-1035		
		3" IPS X 2" IPS	341-6021		
		4" IPS X 1/2" CTS	341-1037		
		4" IPS X 1" IPS	341-1038		
		4" IPS X 1-1/4" CTS	337-9716		
		4" IPS X 2" IPS	337-0781		
6" IPS X 1/2" CTS	341-1051				
6" IPS X 1" IPS	341-1039				
6" IPS X 1-1/4" CTS	333-9724				
6" IPS X 2" IPS	337-0785				
8" IPS X 1/2" CTS	341-1040				
8" IPS X 2" IPS	337-9773				
10" - 16" IPS X 2" IPS	341-1055				
12" IPS X 1" IPS	341-1138				
12" IPS X 2" IPS	341-0900				
17	22.5° ELBOW SPEC. G-8104	12" IPS	ELECTROFUSE 328-1374		
		12" IPS	BUTT FUSION 341-5791		
18	TRANSITION FITTING SPEC. G-8104 (SEE NOTE 6)	16" IPS	SDR 11 341-0278		
19	ELECTROFUSION SPA SADDLE SPEC. G-8104	3" IPS MAIN	341-1044		
		4" IPS MAIN	341-1045		
		6" IPS MAIN	341-1046		
		8" IPS MAIN	341-1047		
10" - 12" IPS MAIN	341-1049				
20	ELECTROFUSION ADJUSTABLE ELBOW SPEC. G-8104	4" IPS	341-1062		
		6" IPS	341-1064		
		8" IPS (ONE SIDED)	341-1605		
		8" IPS (TWO SIDED)	341-1600		
21	ELECTROFUSION BOTTOM OUT SADDLE SPEC. G-8104	12" IPS X 4" IPS			
		12" IPS X 6" IPS			
		12" IPS X 8" IPS			

** 8100 PIPE NO LONGER STOCKED.

INSTALLATION OF DIRECT BURIED POLYETHYLENE GAS MAINS		
CONSOLIDATED EDISON COMPANY OF N.Y., INC. GAS ENGINEERING DEPT		
DATE CREATED: 12/22/04	DWG. NO. E0-14837-B	REV. 6
LAST REVISED: 07/14/25	SHEET 2 OF 2	