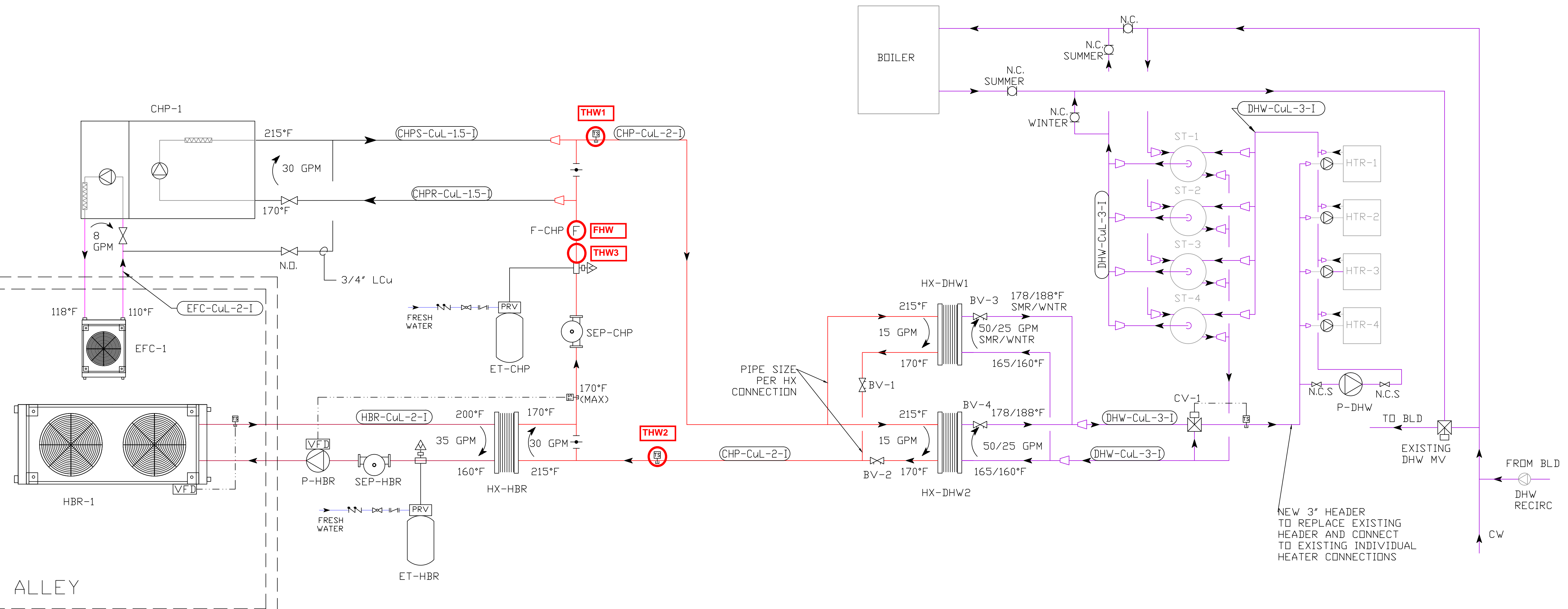


**Hotel Belleclaire**

<b>Logger Channel</b>	<b>Data Point</b>	<b>Description</b>	<b>Eng Units</b>	<b>Instrument / Transducer</b>	<b>Output</b>	<b>Supplied by</b>
MB-001	WT	Gross Power Output	kWh	Tecogen Inverde Unit	Modbus RS-485	Tecogen
-	WP	Parasitic Loads	kWh	-	Calculated	-
MB-001	WB	Building Import Power	kWh	Tecogen Inverde Unit	Modbus RS-485	Tecogen
MB-250 IN1	FG	Cogen Gas Consumption	cf	Roots 3M175	Pulse	Tecogen
MB-024	FHW	Recovered Heat loop Flow	gpm	Onicon F-1100	Modbus RS-485	Tecogen
MB-024	THW1	Recovered Heat Loop - Supply Temp.	°F	Onicon System 10	Modbus RS-485	Tecogen
MB-001	THW2	Recovered Heat Loop - Temp. After DHW HXs	°F	Tecogen Inverde Unit	Modbus RS-485	Tecogen
MB-024	THW3	Recovered Heat Loop - Temp. After Dump Radiator	°F	Onicon System 10	Modbus RS-485	Tecogen
-	QR	Rejected Heat Recovery	MBtu	-	Calculated	-
-	QU	Total Useful Heat Recovery	MBtu	-	Calculated	-

BOILER ROOM



NOTES:  
IT IS A VIOLATION OF PROFESSIONAL ENGINEERING LAW TO ALTER ANY ITEM IN ANY WAY CONTAINED IN THIS DRAWING UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER

6		
5		
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2		
1	CONSTRUCTION RELEASE	6/19/15
0	PROGRESS SUBMISSION	022315
NO.	REVISION DESCRIPTION	DATE

Professional Seal

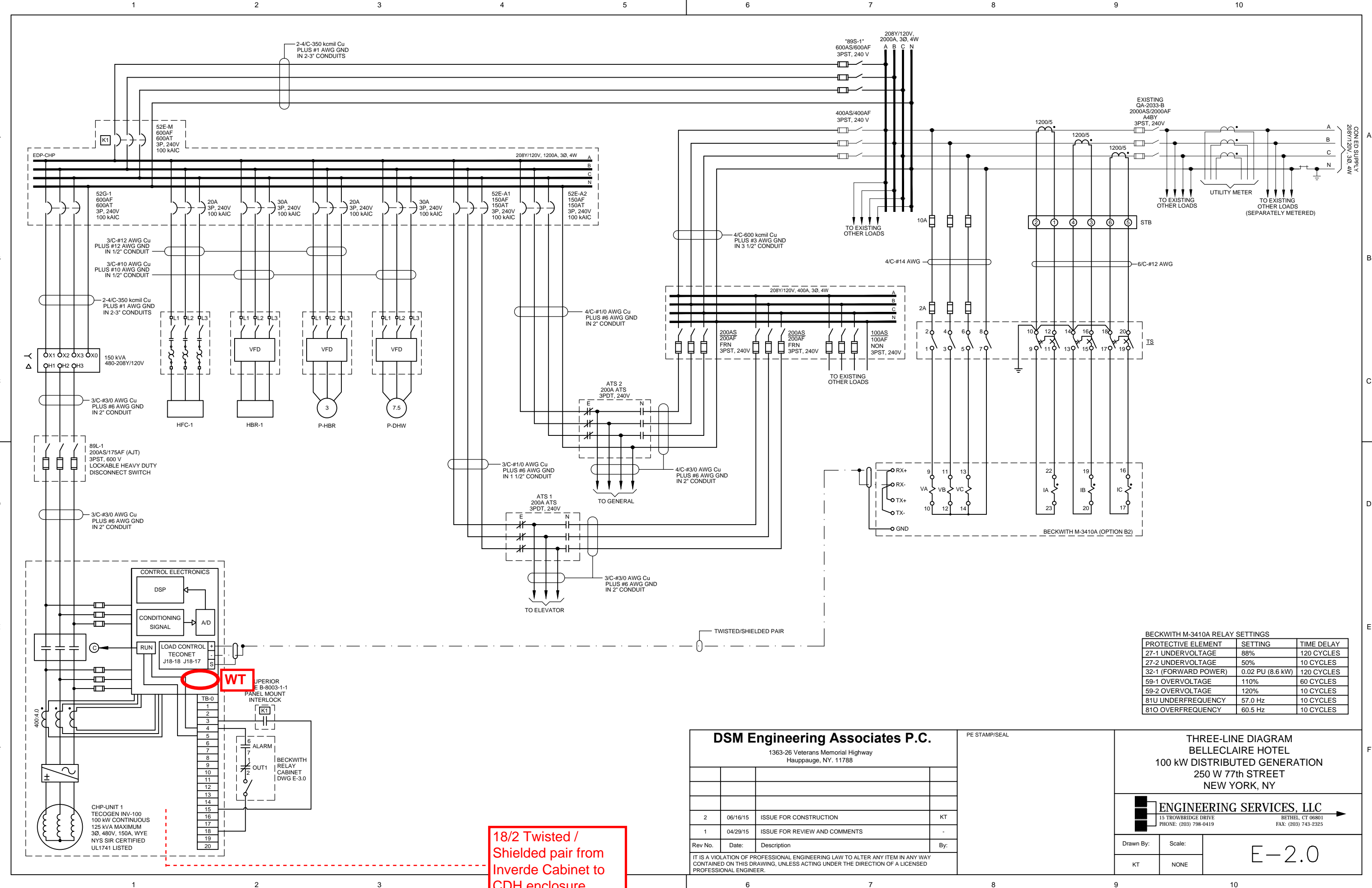
**MECHANICAL**  
**DSM Engineering Associates PC**  
 "Low Carbon" Engineering Specialists  
 1363-26 Veterans Memorial Highway  
 Hauppauge, New York 11788  
 631-360-1208  
 WWW.DSMEA.COM

CONSULTANT DISCIPLINE

CONSULTANT DISCIPLINE

Project Name and Address  
**MECHANICAL SCHEMATIC**  
**HOTEL BELLECLAIRE**  
**CHP PROJECT**  
**250 WEST 77TH STREET**  
**NEW YORK, NY 10024**  
 BLOCK: 1168 LOT: 56

Project No.	Drawing Number:
Date: 10/10/2014	<b>M-300.0</b>
Scale: NTS	
Drawn by: SM	Approved by: JWA
Sheet #:	of



18/2 Twisted /  
Shielded pair from  
Inverde Cabinet to  
CDH enclosure

BECKWITH M-3410A RELAY SETTINGS

PROTECTIVE ELEMENT	SETTING	TIME DELAY
27-1 UNDERVOLTAGE	88%	120 CYCLES
27-2 UNDERVOLTAGE	50%	10 CYCLES
32-1 (FORWARD POWER)	0.02 PU (8.6 kW)	120 CYCLES
59-1 OVERVOLTAGE	110%	60 CYCLES
59-2 OVERVOLTAGE	120%	10 CYCLES
81U UNDERFREQUENCY	57.0 Hz	10 CYCLES
81O OVERFREQUENCY	60.5 Hz	10 CYCLES

**DSM Engineering Associates P.C.**  
1363-26 Veterans Memorial Highway  
Hauppauge, NY. 11788

Rev No.	Date:	Description	By:
2	06/16/15	ISSUE FOR CONSTRUCTION	KT
1	04/29/15	ISSUE FOR REVIEW AND COMMENTS	-

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PE STAMP/SEAL

THREE-LINE DIAGRAM  
BELLECLAIRE HOTEL  
100 kW DISTRIBUTED GENERATION  
250 W 77th STREET  
NEW YORK, NY

**ENGINEERING SERVICES, LLC**  
15 TROWBRIDGE DRIVE  
PHONE: (203) 798-0419

BETHEL, CT 06801  
FAX: (203) 743-2325

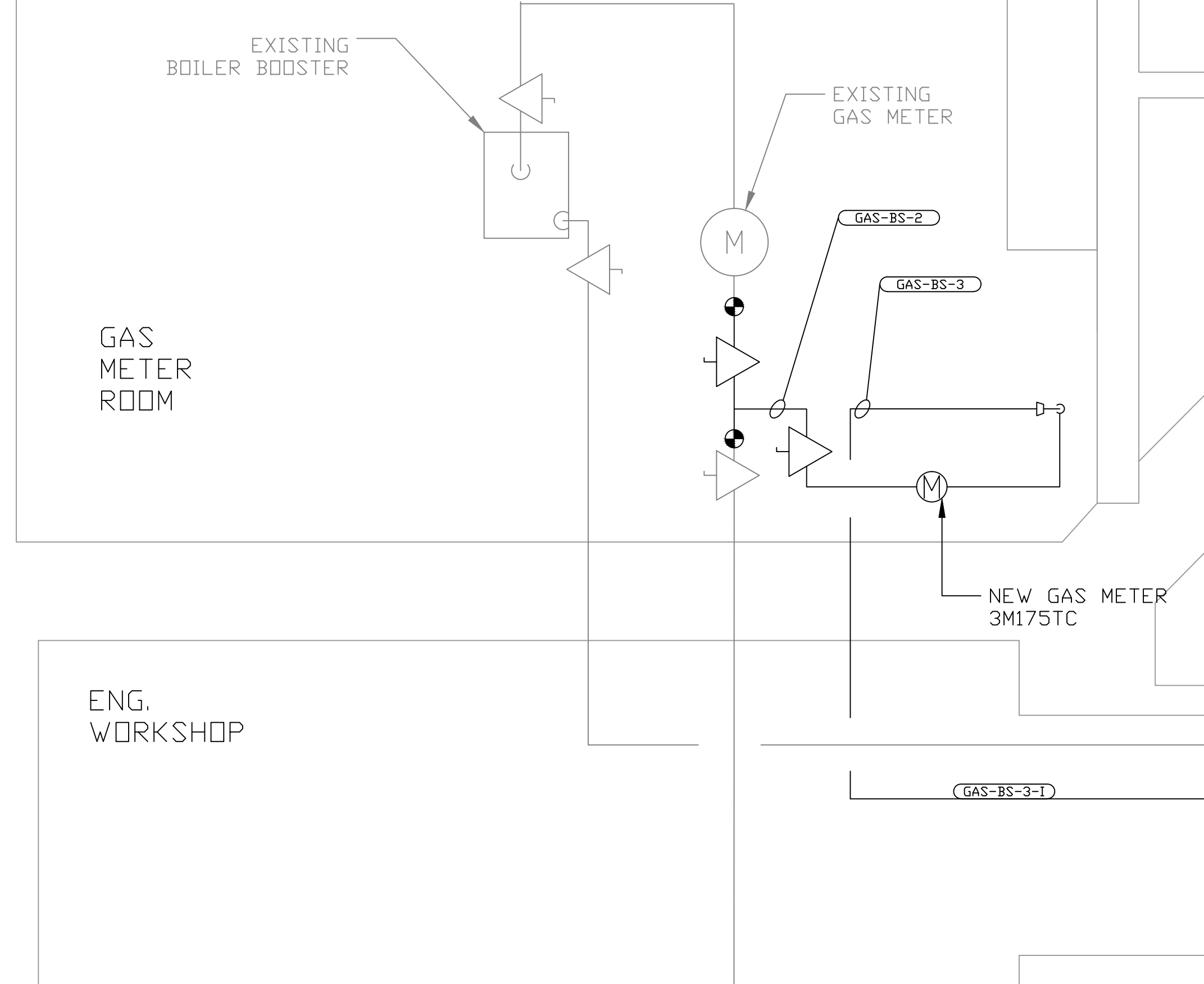
Drawn By: Scale: NONE  
KT NONE

**E-2.0**

**D1 GAS DETAIL CONNECTIONS**  
Scale: NTS

STAFF CAFETERIA

ELECTRICAL ROOM



STORAGE

ELEV. MACHINE ROOM

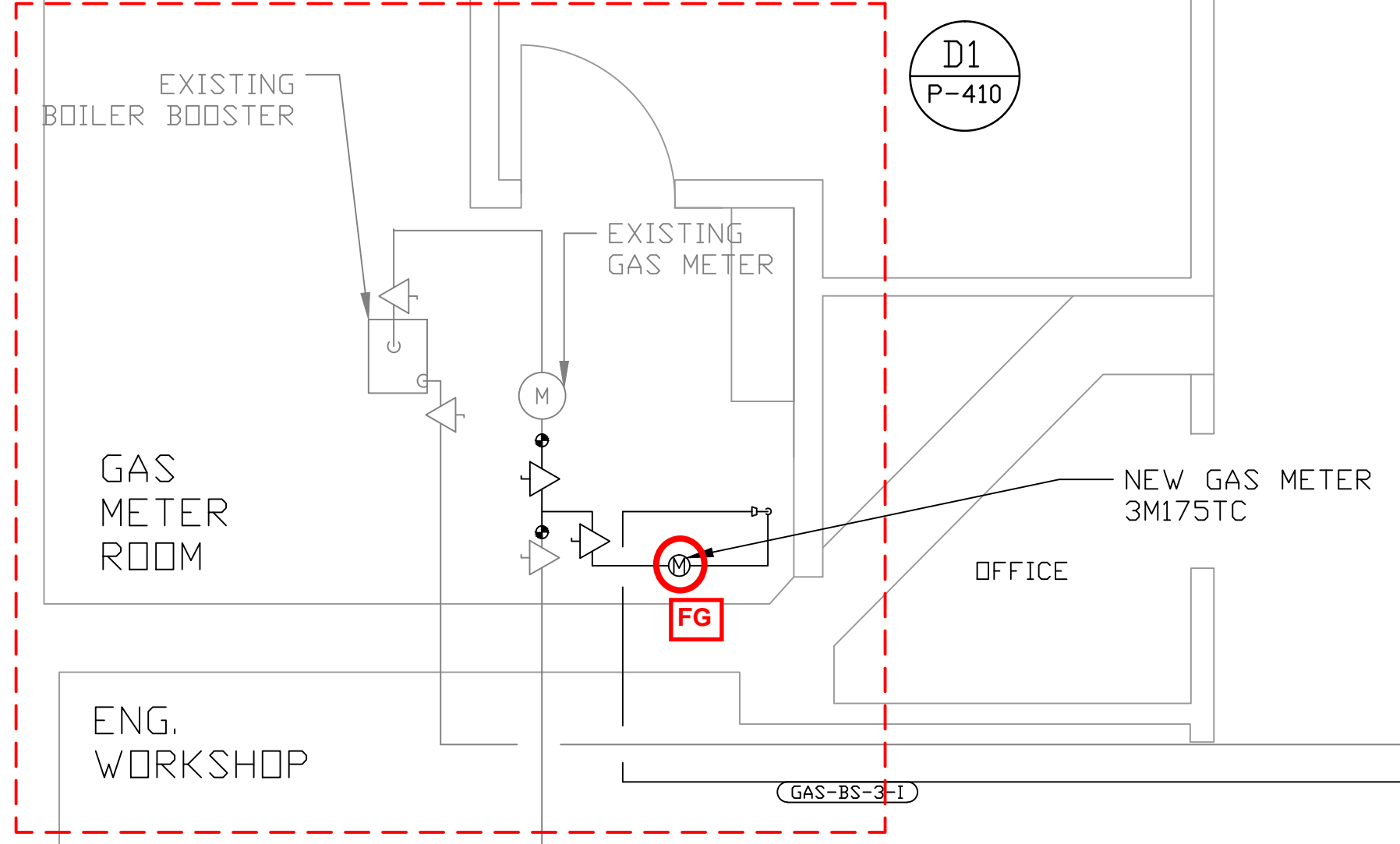
ENG. WORKSHOP

(GAS-BS-3-T)

STORAGE

STAFF CAFETERIA

HOUSE KEEPING OFFICE



D1 P-410

2" GAS TO BUILDING

NEWSTAND STORAGE

EXISTING GAS SERVICE (6")

NEW GAS POE AND SIZE OF SERVICE TO BE DETERMINED BY CONED

(GAS-BS-6)

GAS METER ROOM

ENG. WORKSHOP

NEW GAS METER 3M175TC

OFFICE

LOCKER ROOM

EXISTING GAS SUPPLY TO BOILER

NEW GAS SUPPLY TO CHP UNITS

LOCKER ROOM

CONTINUED ON DRAWING P-412

NOTES:  
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6		
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4		
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2		
1	CONSTRUCTION RELEASE	6/19/15
0	PROGRESS SUBMISSION FOR COMMENTS	02/23/15
NO.	REVISION DESCRIPTION	DATE

Professional Seal

**MECHANICAL**  
**DSM Engineering Associates PC**  
"Low Carbon" Engineering Specialists  
1363-26 Veterans Memorial Highway  
Hauppauge, New York 11788  
631-360-1208  
WWW.DSMEA.COM

CONSULTANT DISCIPLINE

CONSULTANT DISCIPLINE

Project Name and Address  
**CHP INSTALLATION  
HOTEL BELLECLAIRE**  
**PLUMBING LAYOUT  
BASEMENT LEVEL**  
250 WEST 77TH STREET  
NEW YORK, NY 10024  
BLOCK: 1168 LOT: 56

Project No.	Drawing Number:
Date: 12/20/14	<b>P-410.00</b>
Scale: 1/4" = 1' 0"	
Drawn by: SM	Approved by: JWA
Sheet #:	of