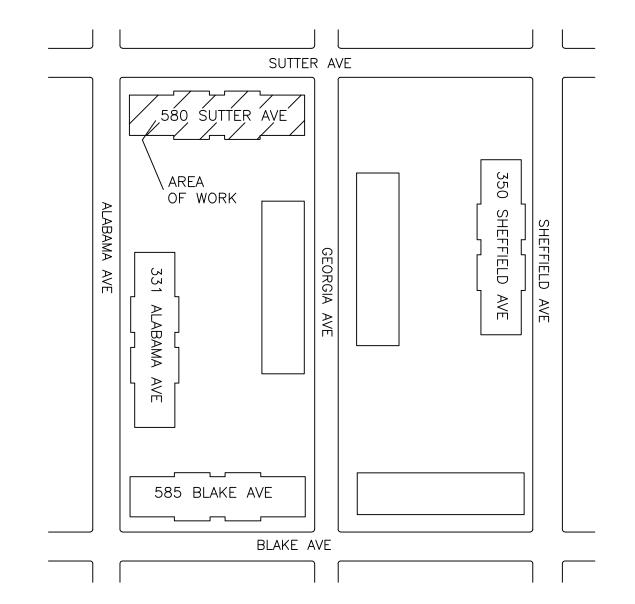
REMEEDER HOUSE 580 SUTTER AVE COGENERATION SYSTEM

(BLOCK 3769, LOT 1)

DRAWING INDEX:

E-201.00

SHEET NO. TITLE OF DRAWING TITLE SHEET, GENERAL NOTES & MECHANICAL SYMBOL LIST T-101.00G-101.00ENERGY ANALYSIS MECHANICAL/HVAC SCHEDULES & FLOW DIAGRAM M-101.00CELLAR MEĆHANICAL PLAN M-201.00MECHANICAL/HVAC DETAILS M - 301.00PLUMBING/GAS PIPING PLAN P-101.00PLUMBING DETAIL & GAS RISER DIAGRAM P-201.00ELECTRICAL CELLAR PLAN E-101.00E-102.00ELECTRICAL CELLAR PLAN



ELECTRICAL DETAILS

REVIEWER NOTE:

THE SCOPE OF WORK FOR THIS PROJECT INCLUDES THE INSTALLATION OF ONE (1) 35KW MODULAR COGENERATION MODULES TO GENERATE HEAT AND ELECTRICITY FOR REMEEDER HOUSE, 580 SUTTER AVE, NEW YORK, NEW YORK, 11207

BIN: 3342520 BLOCK: 3769

BUILDINGS: 3 (ALL WORK AT 3342520)

FLOORS: 6 & CELLAR GROSS AREA: 153,588

DWELLING UNITS: 65 YEAR OF CONSTRUCTION: 1975

GENERAL NOTES

- CONTRACTOR TO VERIFY ALL DIMENSIONS IN FIELD PRIOR TO CONSTRUCTION, AND REPORT TO ENGINEER ALL ERRORS, DISCREPANCIES, OMISSIONS, DEFECTS, OR UNUSUAL WORK CONDITIONS BEFORE COMMENCING CONSTRUCTION.
- ALL WORK IS TO BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE RULES AND REGULATIONS OF ALL GOVERNING AGENCIES INCLUDING BUT NOT LIMITED TO THE CODES AND REGULATIONS AS SET FORTH BY THE CITY OF NEW YORK AND STATE OF NEW YORK.
- CONTRACTOR TO SECURE ALL NECESSARY PERMITS REQUIRED FOR THE STIPULATED WORK PRIOR TO COMMENCING WITH CONSTRUCTION OR DEMOLITION.
- 4. ALL ASBESTOS REMOVAL, PLUMBING, ELECTRICAL, WELDING WORK, ETC. TO BE PERFORMED BY LICENSED CONTRACTORS SUBCONTRACTED BY AEGIS ENERGY SERVICES.
- 5. ALL CONTRACTORS, WORKMEN, AND AGENTS WORKING AT OR VISITING THE SITE SHALL BE COVERED BY ALL
- NECESSARY STATUTORY INSURANCE INCLUDING LIABILITY, WORKMEN'S COMPENSATION, DISABILITY, ETC. ALL WORK SHALL BE PERFORMED IN A NEAT, CLEAN, ORDERLY MANNER AND THE SITE KEPT CLEAN FROM DUST AND
- DEBRIS AT ALL TIMES. CONTRACTORS TO PROVIDE ALL NECESSARY TEMPORARY LIGHTING, POWER, WATER, WATERPROOFING, ETC. NEEDED TO
- ENSURE PROJECT SAFETY AT ALL TIMES. CONTRACTORS TO PROVIDE ALL NECESSARY SHORING, BRIDGING, BARRICADES, SIGNS, ETC. NEEDED TO ENSURE PROJECT SAFETY AT ALL TIMES.
- 9. ALL WORK, INCLUDING TESTING AND TEMPORARY SHUT DOWN OF SERVICES IS TO BE COORDINATED WITH OWNER'S SCHEDULE FOR DELIVERIES, WORKDAYS, TIMES, ETC.
- 10. ALL NEW WORK TO BE THOROUGHLY TIED AND BONDED TO EXISTING WORK
- ALL PATCHING AND JOINING SHALL BE NEAT, CLEAN, AND SQUARE, MATCHING ADJACENT SURFACES IN FINISH AND
- 12. ALL FIRE RETARDANT MATERIALS SHALL BEAR STAMPS, SEALS, AND/OR PERMANENT LABELS AS REQUIRED. AFFIDAVITS SHALL BE PROVIDED WHEN REQUESTED.
- 13. ALL WORK TO BE PLUMB, LEVEL, AND TO THE BEST OF WORKMANSHIP
- CONTRACTOR TO FULLY COORDINATE HIS WORK AND EFFORTS WITH OTHER TRADES TO ENSURE A NEAT, PROPER, DIMENSIONALLY ACCURATE JOB IN ALL RESPECTS TO RELATED WORK.
- 15. THE JOB SHALL BE ADEQUATELY STAFFED AT ALL TIMES TO ENSURE CONTINUITY AND PROGRESS, WITH ALL PHASES/SEGMENTS OF WORK PROPERLY COORDINATED.
- 16. ALL DEFECTIVE OR UNACCEPTABLE WORK SHALL BE REMOVED AND REPLACED, INCLUDING ANY SURROUNDING AFFECTED AREAS. AT NO ADDITIONAL COST TO THE OWNER.
- 17. CONTRACTOR TO SUBMIT SHOP DRAWINGS AND SAMPLES FOR ENGINEER'S APPROVAL WHERE REQUIRED BY DOCUMENTS PRIOR TO PROCEEDING WITH WORK ALL WORK, UNLESS OTHERWISE SPECIFIED, TO BE GUARANTEED FOR A MINIMUM OF ONE YEAR FROM FINAL
- ANY MATERIAL COMPOSITION WHICH IS QUESTIONABLE SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. THE DETERMINATION OF THE ACCEPTABILITY OF ALL MATERIALS SHALL BE AT THE SOLE DISCRETION OF THE ENGINEER.
- 20. ANY CONFLICT BETWEEN THE SPECIFICATIONS AND DRAWINGS IS TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO WORK.
- 21. ALL PIPES TO BE INSULATED WITH 1" HEAVY DENSITY FIBERGLASS INSULATION WITH ALL SURFACE JACKET
- 22. ALL PIPING TO BE HARD COPPER "L" GRADE UNLESS OTHERWISE SPECIFIED.

TENANT PROTECTION PLAN:

ACCEPTANCE.

- THE BUILDING CONTAINS SPACES WHICH WILL BE OCCUPIED DURING CONSTRUCTION.
- EGRESS: DURING THE COURSE OF CONSTRUCTION EGRESS FROM ALL FLOORS SHALL BE MAINTAINED AT ALL TIMES.
- FIRE SAFETY: ALL REQUIRED PRECAUTIONS WILL BE TAKEN TO PROVIDE FIRE SAFETY DURING CONSTRUCTION.
- HEALTH REQUIREMENTS: DUST SHALL BE KEPT AT A MINIMUM AND SHALL BE REMOVED AT THE END OF EACH WORKING DAY. CONSTRUCTION DEBRIS SHALL BE DISPOSED IN A SAFE MANNER. CONSTRUCTION NOISE WILL BE CEASED AFTER NORMAL WORKING HOURS. NOISE SHALL BE LIMITED TO ACCEPTABLE LIMITS. SANITARY FACILITIES SHALL BE PROVIDED AT ALL TIMES. PEST CONTROL SHALL BE PROVIDED AT ALL TIMES DURING THE COURSE OF
- THE CONTRACTOR SHALL COMPLY WITH APPLICABLE LAWS RELATING TO LEAD AND ASBESTOS. IN CASE LEAD OR ASBESTOS ARE FOUND THE OWNER OR ENGINEER SHALL BE INFORMED IMMEDIATELY.
- ELECTRICAL, GAS OR OTHER UTILITIES SHALL NOT BE INTERRUPTED DURING CONSTRUCTION. CONTRACTOR OR OWNER SHALL NOTIFY THE TENANT IN WRITING BEFORE ANY INTERRUPTION OF SERVICES IS PERFORMED.
- BUILDING SECURITY SHALL BE MAINTAINED TO PREVENT UNAUTHORIZED PERSONS FROM ENTERING THE BUILDING.
- FLOORS SHALL NOT BE OVERLOADED BEYOND PERMISSIBLE LIMITS.
- NO STRUCTURAL WORK SHALL BE PERFORMED WHICH MAY ENDANGER THE OCCUPANTS.
- CONSTRUCTION OPERATION SHALL BE CONFINED TO NORMAL WORKING HOURS: 8:00 A.M. THROUGH 5:00 P.M. MONDAY THROUGH FRIDAY, EXCEPT LEGAL HOLIDAYS, UNLESS AUTHORIZED IN WRITING BY OWNERS.

- DRAWINGS ARE TO BE READ, NOT SCALED. ALL WORK SHALL CONFORM TO THE 2014 NEW YORK CITY BUILDING CODE.
- TO THE BEST OF OUR KNOWLEDGE, BELIEF, AND PROFESSIONAL JUDGMENT, SUCH PLANS AND SPECIFICATIONS ARE IN CONFORMANCE WITH THE 2014 NYC ENERGY CONSERVATION CONSTRUCTION CODE. PIPING HAVE BEEN SPECIFIED TO BE INSULATED WITH R-3 INSULATION, DOMESTIC HOT WATER STORAGE TANKS HAVE R-13 INSULATION AND COGENERATION MODULE MEETS EFFICIENCY REQUIREMENTS. SEE ENERGY ANALYSIS ON SHEET G-1.
- ALL CONDITIONS ARE EXISTING EXCEPT AS NOTED. THESE PLANS ARE APPROVED ONLY FOR THE WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON OR TO BE CONSIDERED EITHER APPROVED OR IN ACCORDANCE WITH APPLICABLE CODE. NO CHANGE IN USE, EGRESS OR OCCUPANCY.

SPECIAL/PROGRESS INSPECTION REQUIREMENTS: THE FOLLOWING ITEMS OF WORK SHALL BE SUBJECT TO SPECIAL AND/OR PROGRESS

INSPECTION, MADE AND WITNESSED BY OR UNDER THE DIRECT SUPERVISION OF AN ARCHITECT OR ENGINEER RETAINED BY THE CONTRACTOR WHO SHALL BE QUALIFIED TO PERFORM SUCH INSPECTIONS. A TEST REPORT AND CERTIFICATE OF INSPECTION SHALL BE FILED WITH THE BUILDING DEPARTMENT.

- MECHANICAL SYSTEMS - BC 1704.16 HEATING SYSTEMS
- BC 1704.25 FIRESTOP, DRAFTSTOP & FIREBLOCK

SPECIAL INSPECTIONS/PROGRESS (TR-1) **ENERGY CODE COMPLIANCE INSPECTIONS (TR-8)** BC 1704.16 HVAC & SERVICE WATER HEATING EQUIPMENT HEATING SYSTEMS BC 1704.25 HVAC & SERVICE WATER HEATING CONTROLS FIRE-RESISTANT PENETRATIONS AND JOINTS BC 1704.27 DUCT PLENUM AND PIPING INSULATION & SEALING ☑ ENERGY CODE COMPLIANCE INSPECTION BC 110.3.5 MAINTENANCE INFORMATION

MECHANICAL SYMBOLS LIST:

(M)

CIRCULATION PUMP TEMPERATURE SENSOR

BALL VALVE

BUTTERFLY VALVE

UNION

PRESSURE RELIEF VALVE

THERMOMETER

AQUASTAT

STRAINER - Y TYPE

MANUAL AIR VENT

COGEN TEMPERATURE SENSOR

FLOW DIRECTION

GATE VALVE

CHECK VALVE

→ FLOW CHECK

FAN/COIL UNIT

HEAT EXCHANGER





A: NORMALLY CLOSED B: NORMALLY OPEN AB: MIXED WATER

3-WAY VALVE

NORMALLY OPEN/ON NORMALLY CLOSED/OFF

CLOSED WINTER

C.S. CLOSED SUMMER

POINT OF CONNECTION TO EXISTING

—cw—— COLD WATER (DOMESTIC) -CWF- COLD WATER FILL

--HWS--- BUILDING HEAT SUPPLY

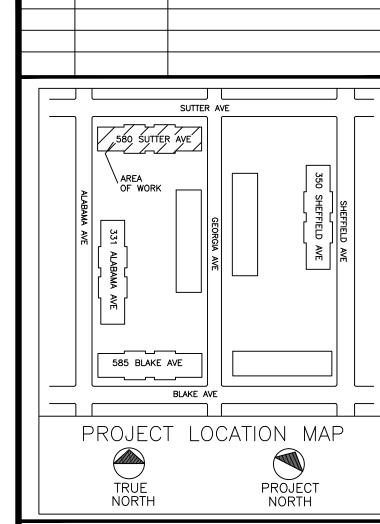
-DHWS- BUILDING DHW CIRCULATION

—c—— COGEN PROCESS LOOP PIPING

- CDHW- COGEN DHW SUPPLY —GS—— GLYCOL SUPPLY

—GR—— GLYCOL RETURN —E—— COGEN EXHAUST PIPE

—G—— COGEN GAS LINE



DATE

REVISION DESCRIPTION

AEGIS ENERGY SERVICES, INC 55 JACKSON STREET

HOLYOKE, MA 01040 TEL.: 413-536-1156 FAX: 413-536-1104 ATTN: KEVIN MAY

ALL DRAWINGS ARE TO BE READ NOT SCALED

IT IS A VIOLATION OF THE LAW FOR ANY PERSON LICENSED ENGINEER/ARCHITECT, TO ALTER IN ANY WAY, ANY ITEM ON THESE DRAWINGS. IF AN ITEM BEARING THE SEAL OF AN ENGINEER/ARCHITECT IS ALTERED, THE ALTERING ENGINEER/ARCHITECT SHALL AFFIX TO THIS ITEM THEIR SEAL AND THE NOTATION "ALTERED BY", FOLLOWED BY HIS/HER SIGNATURE AND THE DATE OF SUCH ALTERATION, ALONG WITH A SPECIFIC DESCRIPTION OF THE ALTERATION ON THE DRAWING.

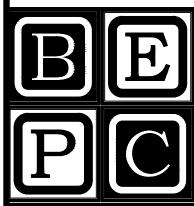
THE PLANS AND SPECIFICATIONS HEREIN ARE

INTENDED FOR THE SUBJECT PROJECT ONLY AND AS A RESULT OF CONTRACTUAL NEGOTIATIONS BETWEEN BECKER ENGINEERING, PC, THESE PLANS AND SPECIFICATIONS WILL BE THE SUBJECT OF A COPYRIGHT PETITION AND MAY NOT BE REVISED C REUSED BY ANYONE WITHOUT THE WRITTEN AUTHORITY OF BECKER ENGINEERING, PC.

PREPARED BY:

BECKER ENGINEERING, PC

777 SUNRISE HIGHWAY, SUITE 300 LYNBROOK, NY 11563 PHONE: (516) 561-5922 FAX: (516) 823-0219 EMAIL: SUPPORT@BEPC.US



WEB: WWW.BEPC.US

REMEEDER HOUSE COGENERATION PROJECT 580 SUTTER AVE BROOKLYN, NY 11207

TITLE SHEET, GENERAL NOTES & MECHANICAL SYMBOL LIST

DESIGN	BY:	SP	DATE:	08/30/16
DRN BY	′ :	SP	DATE:	08/30/16
CKD BY	' :	•	DATE:	•
FINAL C	KD BY:	•	DATE:	•
SCALE:	AS NO	ED	DATE:	
DWG No).	Р	AGE 1 OF	10

T-101.00

	INSPECTION/TEST SCHEDULE	FREQUENCY (MINIMUM)	REFERENCE STANDARD (SEE NYCECC CHAPTER 6)	NYCECC OR OTHER CITATION
IIB3	HVAC, SERVICE WATER HEATING AND POOL EQUIPMENT SIZING AND PERFORMANCE: EQUIPMENT SIZING, EFFICIENCIES AND OTHER PERFORMANCE FACTORS OF ALL MAJOR EQUIPMENT UNITS, AS DETERMINED BY THE APPLICANT OF RECORD, AND NO LESS THAN 15% OF MINOR EQUIPMENT UNITS, SHALL BE VERIFIED BY VISUAL INSPECTION AND, WHERE NECESSARY, REVIEW OF MANUFACTURE'S DATA. POOL HEATERS AND COVERS SHALL BE VERIFIED BY VISUAL INSPECTION.	PRIOR TO FINAL PLUMBING AND CONSTRUCTION INSPECTION	AFTER INSTALLATION AND PRIOR TO CLOSING SHAFTS CEILINGS AND WALLS	C403.1, C404.2, C404.7
IIB4	HVAC SYSTEM CONTROLS AND ECONOMIZERS AND SERVICE HOT SWATER SYSTEM CONTROLS: NO LESS THAN 20% OF EACH TYPE OF REQUIRED CONTROLS AND ECONOMIZERS SHALL BE VERIFIED BY VISUAL INSPECTION AND TESTED FOR FUNCTIONALITY AND PROPER OPERATION	AFTER INSTALLATION AND PRIOR TO FINAL ELECTRICAL AND CONSTRUCTION INSPECTION, EXCEPT THAT FOR CONTROLS WITH EASONALLY DEPENDENT FUNCTIONALITY, SUCH TESTING SHALL B APPROVED CONSTRUCTION DOCUMENTS, INCLUDING CONTROL SYSTEM NARRATIVES; ASHRAE GUIDELINE 1: THE HVAC COMMISSIONING PROCESS WHERE APPLICABLE C403.2.4, C403.2.5.1, C403.2.11, C403.2, C403.3.3, C403.3, C404.6, C404.7 PERFORMED BEFORE SIGNOFF FOR ISSURANCE OF A FINAL CERTIFICATE OF OCCUPANCY		C403.2.4, C403.2.5.1, C403.2.11, C403.2, C403.3.3, C403.3, C404.6, C404.7
IIB5	HVAC INSULATION AND SEALING: INSTALLED DUCTS AND PIPING INSULATION SHALL BE VISUALLY INSPECTED TO VERIFY PROPER INSULATION PLACEMENT AND VALUES. JOINS, LONGITUDINAL AND TRANSVERSE SEAMS AND CONNECTIONS IN DUCTWORK SHALL BE VISUALLY INSPECTED FOR PROPER SEALING.	PERFORMED BEFORE SIGN OFF FOR ISSUANCE OF FINAL CERTIFICATE OF OCCUPANCY	APPROVED CONSTRUCTION DOCUMENTS: SMACNA DUCT CONSTRUCTION STANDARDS. METAL AND FLEXIBLE: UL 181A OR UL 181B	C403.2.7, C403.2.8, C404.5

ENERGY	/ ANALYSIS FOR ALTERATION — 2014 NYCECC	- CHAPTER C4, CLIMATE ZONE 4									
EQUIPMENT											
ITEM TAG	COGENERATIC	N MODULE									
NYCECC CITATION	C404.3	C404.5									
PROVISION	TEMPERATURE CONTROLS	PIPE INSULATION									
ITEM DESCRIPTION	TEMPERATURE CONTROLS	PIPE INSULATION									
PROPOSED DESIGN VALUE	MIXED WATER TEMPERATURE SET FOR 110°F	2" INSULATION SHALL BE USED ON ALL HOT WATER SERVICE PIPING									
CODE PRECRIPTIVE VALUE	CONTROLS SHALL ALLOW 110°F SET POINT FOR ALL	CONDUCTIVITY FOR INSULATION SHALL NOT EXCEED 0.27 BTU/INCH/HXFT^2XF									
SUPPORTING DOCUMENTATION	SEE PLUMBING DRAWINGS FOR REFERENCE	SEE PLUMBING DRAWINGS FOR REFERENCE									

	CCUIC	Usage ai	iu Cosis	V V I L I I	AEGIS .	JOK	W Cogen	FIG		
									Total	
		kW		Co	nEd SC8		ESCO	Electric Charges		
Date	Days	Demand	kWh	D	elivery		Supply			
12/22/2014										
1/21/2015	30	93	27,100	\$	3,649	\$	2,908	\$	6,557	
2/20/2015	30	85	23,660	\$	3,014	\$	2,539	\$	5,553	
3/22/2015	30	81	22,140	\$	3,172	\$	2,376	\$	5,547	
4/22/2015	31	60	13,262	\$	2,145	\$	1,423	\$	3,568	
5/21/2015	29	65	14,538	\$	2,113	\$	1,560	\$	3,673	
6/22/2015	32	89	19,584	\$	3,517	\$	2,101	\$	5,618	
7/22/2015	30	131	44,140	\$	5,731	\$	4,736	\$	10,46	
8/22/2015	31	126	43,342	\$	5,714	\$	4,651	\$	10,364	
9/23/2015	32	78	21,984	\$	3,456	\$	2,359	\$	5,815	
10/22/2015	29	88	24,378	\$	3,102	\$	2,616	\$	5,718	
11/22/2015	31	81	22,782	\$	3,024	\$	2,445	\$	5,469	
12/22/2015	30	76	19,820	\$	2,838	\$	2,127	\$	4,96	
Total:	365	<u> </u>	296,730	\$	41,475	\$	31,839	\$	73,31	

Total: 365 46,034 17,263 28,771 11,566 5,372

		Fuell	Jsage W	ithout A	EGIS	AEGIS 3	5 kW Co	gen Plan	t Hours	Fuel U	sage W/	age W/ AEGIS Without AEGIS Costs				With AEGIS Costs										
		Total	DHW	Sp. Ht.	Displ.	Cogen	Cogen	Cogen	Total	Suppl.	Cogen	Total	N	-Grid	Direc	ct Energy			N	-Grid	Direc	t Energy	N-Grid	N-Grid		
		Gas	Gas	Gas	Heat	Run	#1 Daily	Dump	Cogen	Gas	Gas	Gas	T:	3 Gas	Boi	ler Gas	T	otal	T:	3 Gas	Boil	ler Gas	4-A Cogen	4-A Cogen	-	Γotal
Date	Days	Therms	Therms	Therms	Therms	Hours	Hours	Hours	Hours	Therms	Therms	Therms	De	livery	S	upply	Ch	arges	De	livery	Sı	upply	Gas Delivery	Gas Supply	Cł	narges
1/5/15																										
2/4/15	30	9,024	1,419	7,605	951	442	24	242	684	7,680	2,784	10,463	\$	2,431	\$	4,903	\$	7,333	\$	2,087	\$	4,172	\$ 737	\$ 852	\$	7,848
3/7/15	31	8,300	1,466	6,834	982	456	24	251	707	6,911	2,877	9,787	\$	2,249	\$	4,509	\$	6,759	\$	1,894	\$	3,755	\$ 762	\$ 833	\$	7,243
/5/15	29	6,804	1,372	5,432	919	427	24	234	661	5,504	2,691	8,195	\$	1,859	\$	3,697	\$	5,555	\$	1,526	\$	2,990	\$ 713	\$ 642	\$	5,871
/5/15	30	3,467	1,419	2,048	951	442	24	242	684	2,123	2,784	4,906	\$	1,008	\$	1,884	\$	2,892	\$	664	\$	1,153	\$ 737	\$ 681	\$	3,236
/4/15	30	2,049	1,419	630	951	442	24	242	684	705	2,784	3,488	\$	646	\$	1,113	\$	1,759	\$	278	\$	383	\$ 737	\$ 507	\$	1,90
/6/15	32	1,703	1,513	190	1,014	471	24	259	730	269	2,969	3,238	\$	565	\$	925	\$	1,490	\$	135	\$	146	\$ 786	\$ 610	\$	1,678
/5/15	30	1,449	1,449	1	971	450	24	234	684	78	2,784	2,862	\$	492	\$	787	\$	1,279	\$	68	\$	42	\$ 737	\$ 543	\$	1,391
/4/15	30	1,382	1,382	-	926	431	24	253	684	70	2,784	2,854	\$	475	\$	751	\$	1,226	\$	66	\$	38	\$ 737	\$ 577	\$	1,418
0/5/15	31	1,473	1,473	-	987	458	24	249	707	78	2,877	2,954	\$	502	\$	800	\$	1,302	\$	70	\$	42	\$ 762	\$ 648	\$	1,522
1/6/15	32	2,689	1,513	1,176	1,014	471	24	259	730	1,255	2,969	4,224	\$	817	\$	1,461	\$	2,278	\$	450	\$	682	\$ 786	\$ 703	\$	2,622
2/6/15	30	3,278	1,419	1,859	951	442	24	242	684	1,934	2,784	4,717	\$	960	\$	1,781	\$	2,741	\$	616	\$	1,050	\$ 737	\$ 734	\$	3,138
/5/16	30	4,416	1,419	2,997	951	442	24	242	684	3,072	2,784	5,855	\$	1,251	\$	2,399	\$	3,650	\$	907	\$	1,669	\$ 737	\$ 834	\$	4,147

Remeeder House 580 Sutter Ave Brooklyn, NY 11207

Energy Expenses Without AEGIS

ConEd SC8 Electric Delivery	\$ 61,213
ESCO Electric Supply	\$ 63,093
N-Grid T-3 Boiler Gas Delivery	\$ 13,255
Direct Energy Boiler Gas Supply	\$ 25,010
	\$ 162,570

CP35D Unit Type # Of Units

Energy Expenses With AEGIS

ConEd SC8 Electric Delivery	\$ 41,475
ESCO Electric Supply	\$ 31,839
N-Grid T-3 Boiler Gas Delivery	\$ 8,762
Direct Energy Boiler Gas Supply	\$ 16,123
N-Grid 4-A Cogen Gas Delivery	\$ 8,970
N-Grid 4-A Cogen Gas Supply	\$ 8,164
	\$ 115,333
Gross Savings	\$ 47,238

4,077 \$

4,043 \$

4,841 \$

7,305 \$

7,305 \$

5,099 \$

5,099 \$

5,099 \$

4,695 \$

7,942

7,593

10,044

14,629

14,685 10,289

9,604

9,756 9,269

124,305

38,000 \$

37,680 \$

45,120 \$ 68,080 \$

68,080 \$ 47,520 \$

47,520 \$

47,520 \$ 43,760 \$

5,007 \$
3,865 \$
3,550 \$

5,203 \$

7,324 \$

7,380 \$

5,190 \$

4,505 \$

4,657 \$

4,573 \$

155 588,000 \$ 61,213 \$ 63,093 \$

Date Days Demand kWh

112

155

150

100

12/22/2014

1/21/2015 30

2/20/2015 30

3/22/2015 30 4/22/2015 31

5/21/2015 29

6/22/2015 32 7/22/2015 30

8/22/2015 31

9/23/2015 32

10/22/2015 29

11/22/2015 31

12/22/2015 30

Total: 365

2,950 8,322 29,676 33,871 63,547 \$ 13,255 \$ 25,010 \$ 38,265 \$ 8,762 \$ 16,123 \$ 8,970 \$ 8,164 \$ 42,018

			ESCO Ele	C8 Electric Deliver	•	\$ \$	41,4 31,8	339	WAY, ANY ITEM ON THESE DRAWINGS. IF AN ITEM BEARING THE SEAL OF AN ENGINEER/ARCHITECT IS ALTERED, THE ALTERING ENGINEER/ARCHITECT SHALL AFFIX TO THIS ITEM THEIR SEAL AND THE
			Direct End N-Grid 4-A	B Boiler Gas Deli ergy Boiler Gas S A Cogen Gas De A Cogen Gas Su	Supply livery	\$ \$ \$	16,1 8,9	970 1 <u>64</u>	NOTATION "ALTERED BY", FOLLOWED BY HIS/HER SIGNATURE AND THE DATE OF SUCH ALTERATION, ALONG WITH A SPECIFIC DESCRIPTION OF THE ALTERATION ON THE DRAWING. PROPRIETARY STATEMENT: THE PLANS AND SPECIFICATIONS HEREIN ARE INTENDED FOR THE SUBJECT PROJECT ONLY AND
Gross Savings Cogen Maintenance Net Savings:							47,2 (6,2 40,9 9	242)	AS A RESULT OF CONTRACTUAL NEGOTIATIONS BETWEEN BECKER ENGINEERING, PC, THESE PLANS AND SPECIFICATIONS WILL BE THE SUBJECT OF A COPYRIGHT PETITION AND MAY NOT BE REVISED OR REUSED BY ANYONE WITHOUT THE WRITTEN AUTHORITY OF BECKER ENGINEERING, PC.
									PREPARED BY:
Elec	ctric Us		Costs Wi	thout AEGIS		J		Total	BECKER ENGINEERING, PC
Date	Days	kW Demand	kWh	ConEd SC8 Delivery		CO pply		Electric Charges	777 SUNRISE HIGHWAY, SUITE 300 LYNBROOK, NY 11563
22/2014						· • •			PHONE: (516) 561-5922
21/2015	30	116	51,040	\$ 5,434	\$	5,477	\$	10,910	FAX: (516) 823-0219 EMAIL:
_ 1/2010		I	<i>'</i>						
20/2015 20/2015 22/2015	30	108	47,600	\$ 4,525	\$	5,108	\$	9,632	SUPPORT@BEPC.US

CLIENT:

STATEMENT:

NO. DATE

REVISION DESCRIPTION

SUTTER AVE

580 SUTTER AVE

585 BLAKE AVE ____

BLAKE AVE

AEGIS ENERGY SERVICES, INC

55 JACKSON STREET HOLYOKE, MA 01040

TEL.: 413-536-1156 FAX: 413-536-1104 ATTN: KEVIN MAY

PROJECT LOCATION MAP

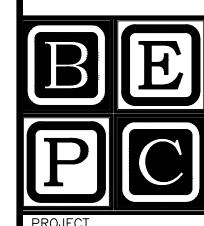
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IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A

LICENSED ENGINEER/ARCHITECT, TO ALTER IN ANY

PROJECT NORTH



REMEEDER HOUSE COGENERATION PROJECT 580 SUTTER AVE BROOKLYN, NY 11207

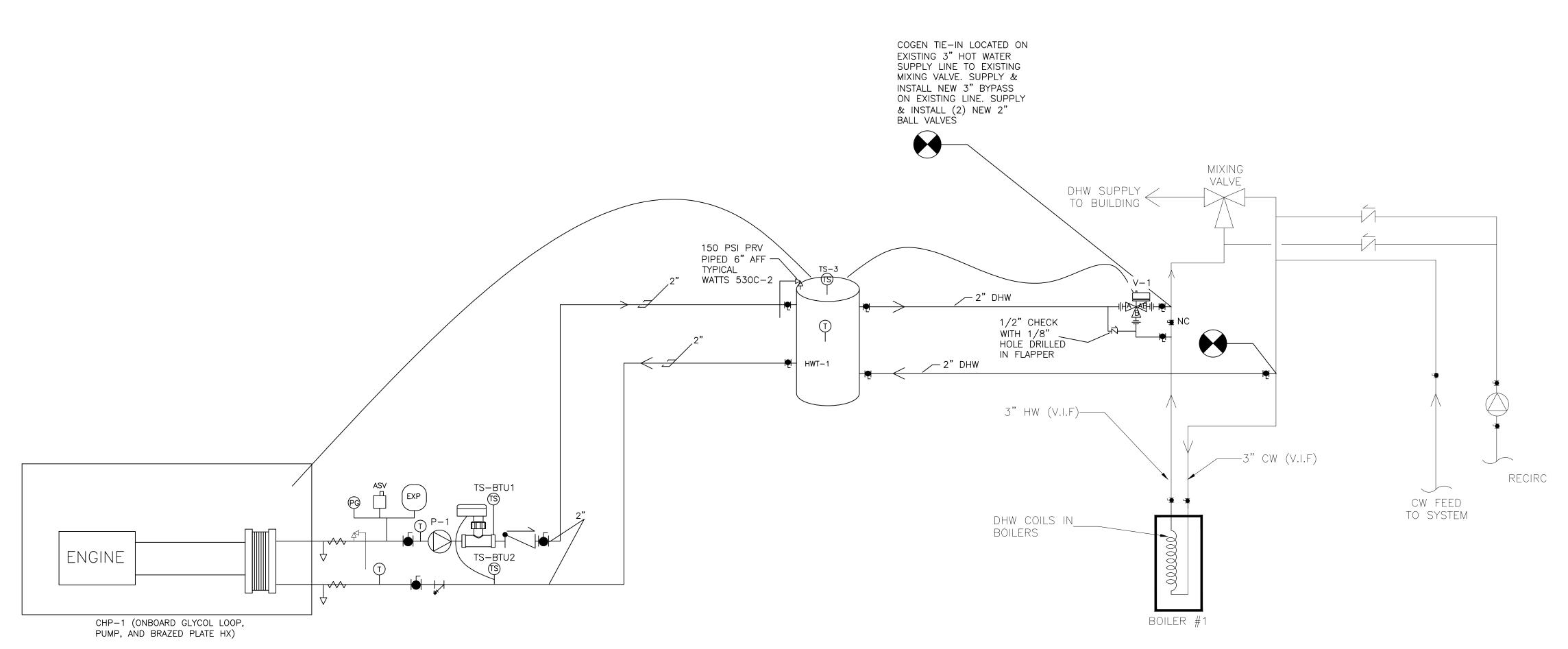
DRAWING TITLE

ENERGY ANALYSIS

DESIGN	BY:	SP	DATE:		08/30/16
DRN BY	':	SP	DATE:		08/30/16
CKD BY	':	•	DATE:		•
FINAL C	KD BY:	•	DATE:		•
SCALE:	AS NOT	ΓED	DATE:		
DWG No) .	Р	AGE 2	OF	10

G-101.00

60 - 341



DHW STORAGE TA	NK SCHEDULE HWT-1					
MANUFACTURER	AO SMITH					
WEIGHT	~800 LBS					
CAPACITY	120 GAL					
ORIENTATION	VERTICAL					
LINING	GLASS					
DIAMETER	28"					
HEIGHT	62"					
MODEL	TJV-120M					
MANWAY	N/A					
MAX PRESSURE	160 PSI					
PRESSURE RELIEF VALVE	WATTS530C-2 SET AT 150 PSI					

COGENERATION S	CHEDULE CHP-1
DESIGN MANUFACTURER	YANMAR
FUEL	NATURAL GAS
FUEL INPUT	408 CFH
THERMAL OUTPUT	202,000 BTU/H
ELECTRICAL OUTPUT	35 KW, 208V
POWER GENERATOR	DG GENERATOR - INVERTER
ACOUSTIC LEVEL	64 dB (A)
VIBRATION ISOLATION	YES
CONTROLS	MICROPROCESSOR BASED
UNIT WEIGHT	3,374 LBS
MODEL	CP35D1
NOMINAL INLET TEMP	167 F
NOMINAL OUTLET TEMP	176 F
NOMINAL WATER FLOW RATE	39.6 GPM

					NOMINAL \	WATER FLO	W RATE	39.6 GPM		
PUN	MP SCHEDULE									
PUMP NO.	SERVICE	FLOW	HEAD	PΙ	JMP H.P.	PHASE	PUMP M	ODEL		
'-1	COGEN LOOP	40 GPM	17 FT		1/2 HP	1 PH	GRUNDFO	S UPS 43-100 SF]

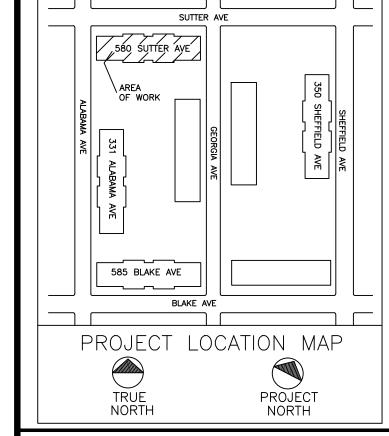
CON	ITROL VALVE SCHEDULE					
VALVE NO.	SERVICE	FLOW TYPE	SIZE	VOLTAGE	VALVE MODEL	ACTUATOR
V-1	BUILDING DHW LOOP	NORMALLY B	2"	24 V	BARBER COLMAN VA2313-526-9-67	MA40-7043 ON/OFF

TEMPER	TEMPERATURE SENSOR SCHEDULE						
TS NO.	SERVICE	SENSOR MODEL NO.	WELL TYPE				
TS-BTU1	COGEN SUPPLY	MAMAC TE-703-C-5A	AT-225				
TS-BTU2	COGEN LOOP LEAVING H.X1	MAMAC TE-703-C-5A	AT-225				
TS-3	TANK TEMPERATURE	MAMAC TE-703-C-5A	AT-225				

- 1. ALL PIPE TO BE COPPER "L" UNLESS OTHERWISE NOTED
 2. COGEN HEAT DISSIPATION LOOP TO BE 40% PROP. GLYCOL. ALL
- FILLING OF GLYCOL LOOP BY AEGIS.

 3. CONTRACTOR SHALL PROTECT FROM HARM AND MAINTAIN ALL EXISTING EQUIPMENT, PLANT, FACILITY, ETC. TO REMAIN.

NO.	DATE	REVISION DESCRIPTION



CLIENT:

AEGIS ENERGY SERVICES, INC 55 JACKSON STREET HOLYOKE, MA 01040 TEL.: 413-536-1156 FAX: 413-536-1104 ATTN: KEVIN MAY

ALL DRAWINGS ARE TO

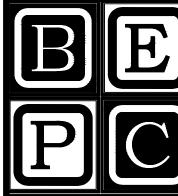
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PREPARED BY:

BECKER ENGINEERING, PC

777 SUNRISE HIGHWAY, SUITE 300 LYNBROOK, NY 11563 PHONE: (516) 561-5922 FAX: (516) 823-0219 EMAIL: SUPPORT@BEPC.US WEB: WWW.BEPC.US



REMEEDER HOUSE COGENERATION PROJECT 580 SUTTER AVE BROOKLYN, NY 11207

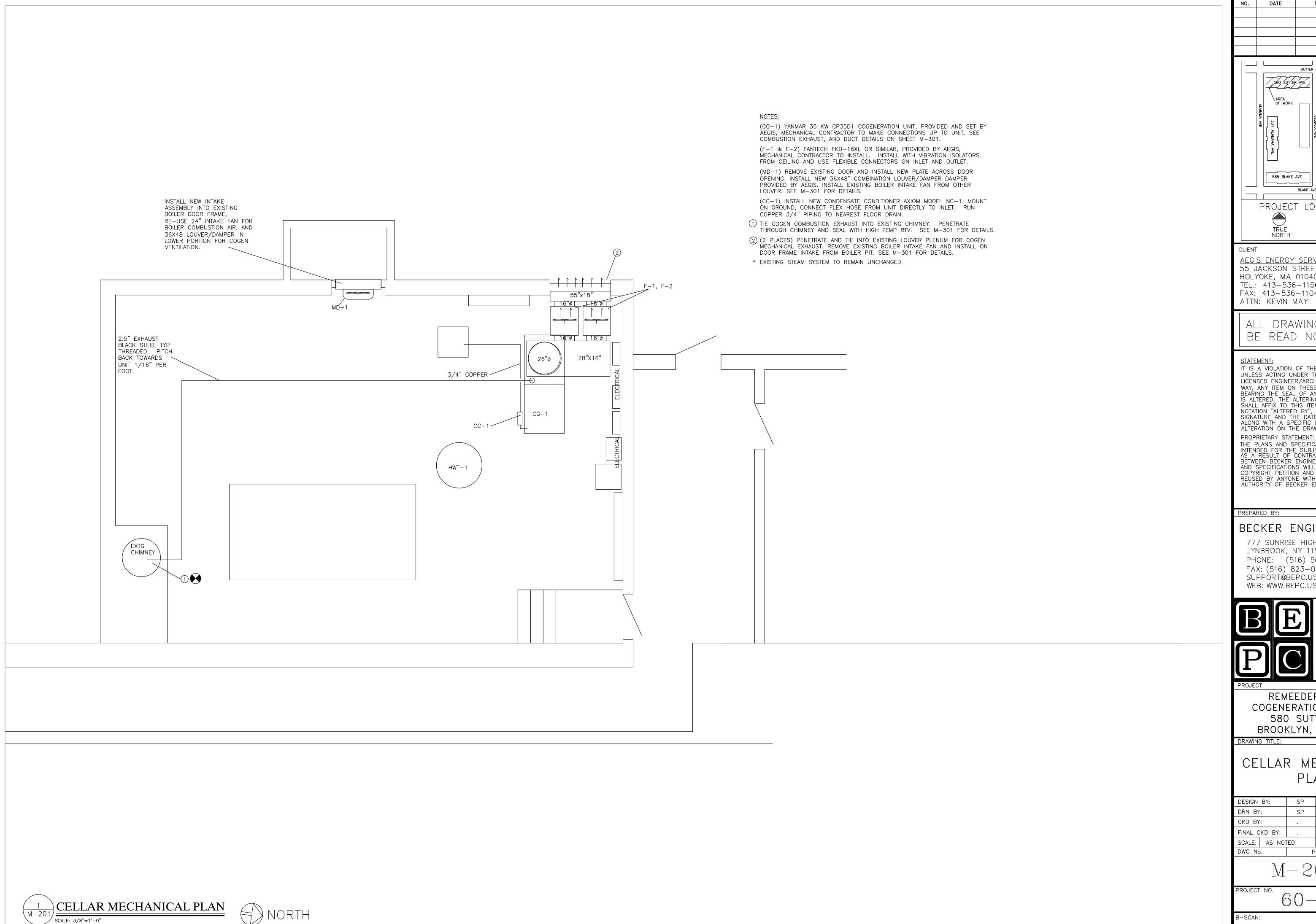
MECHANICAL/HVAC SCHEDULES & FLOW DIAGRAM

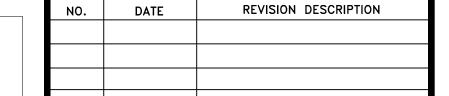
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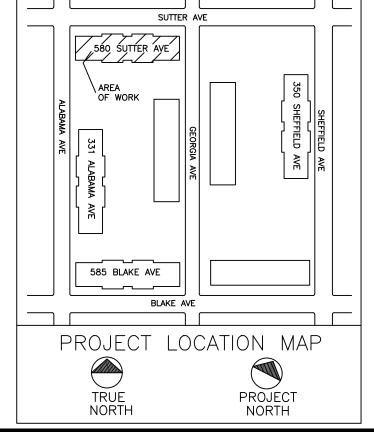
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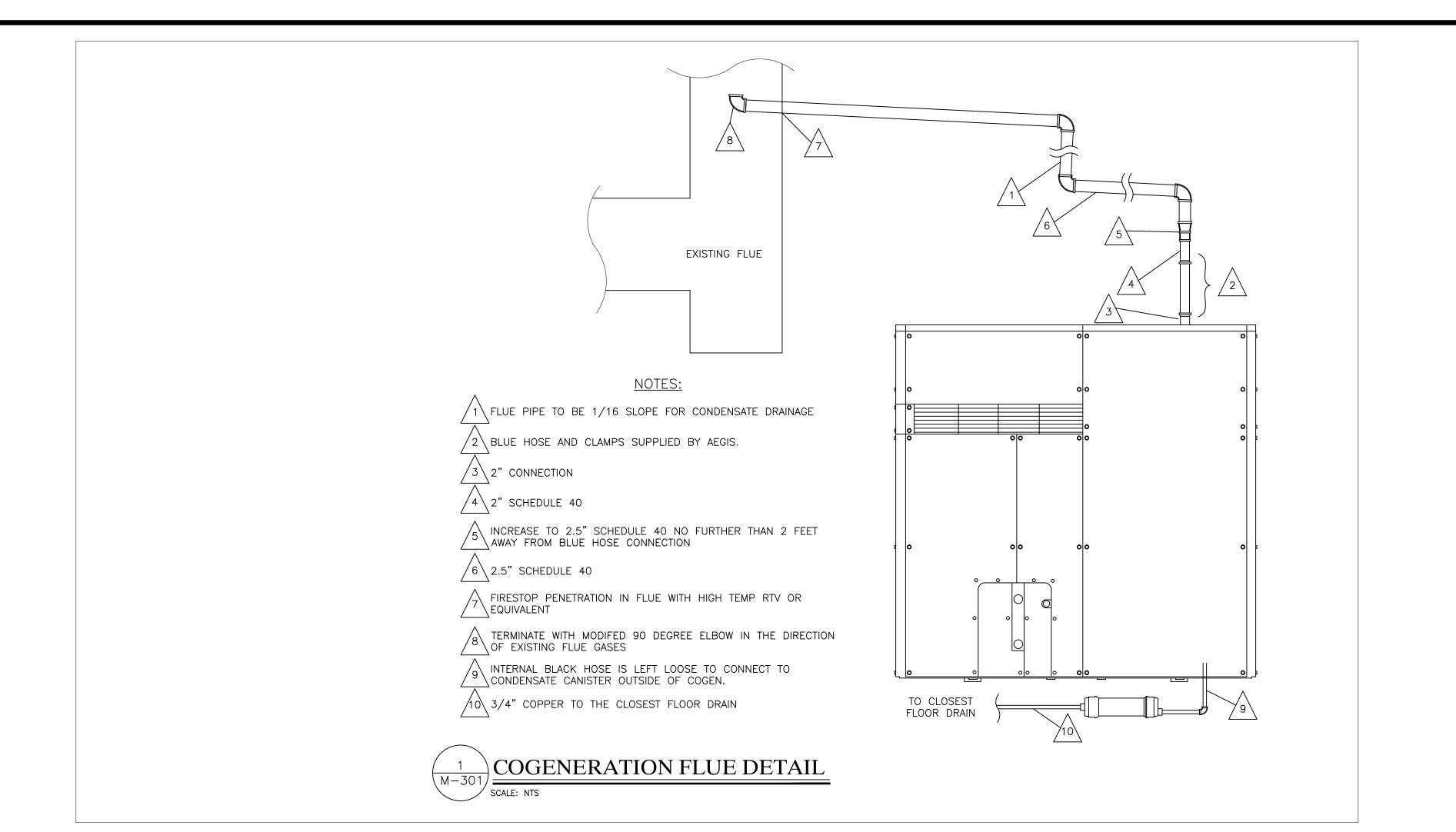
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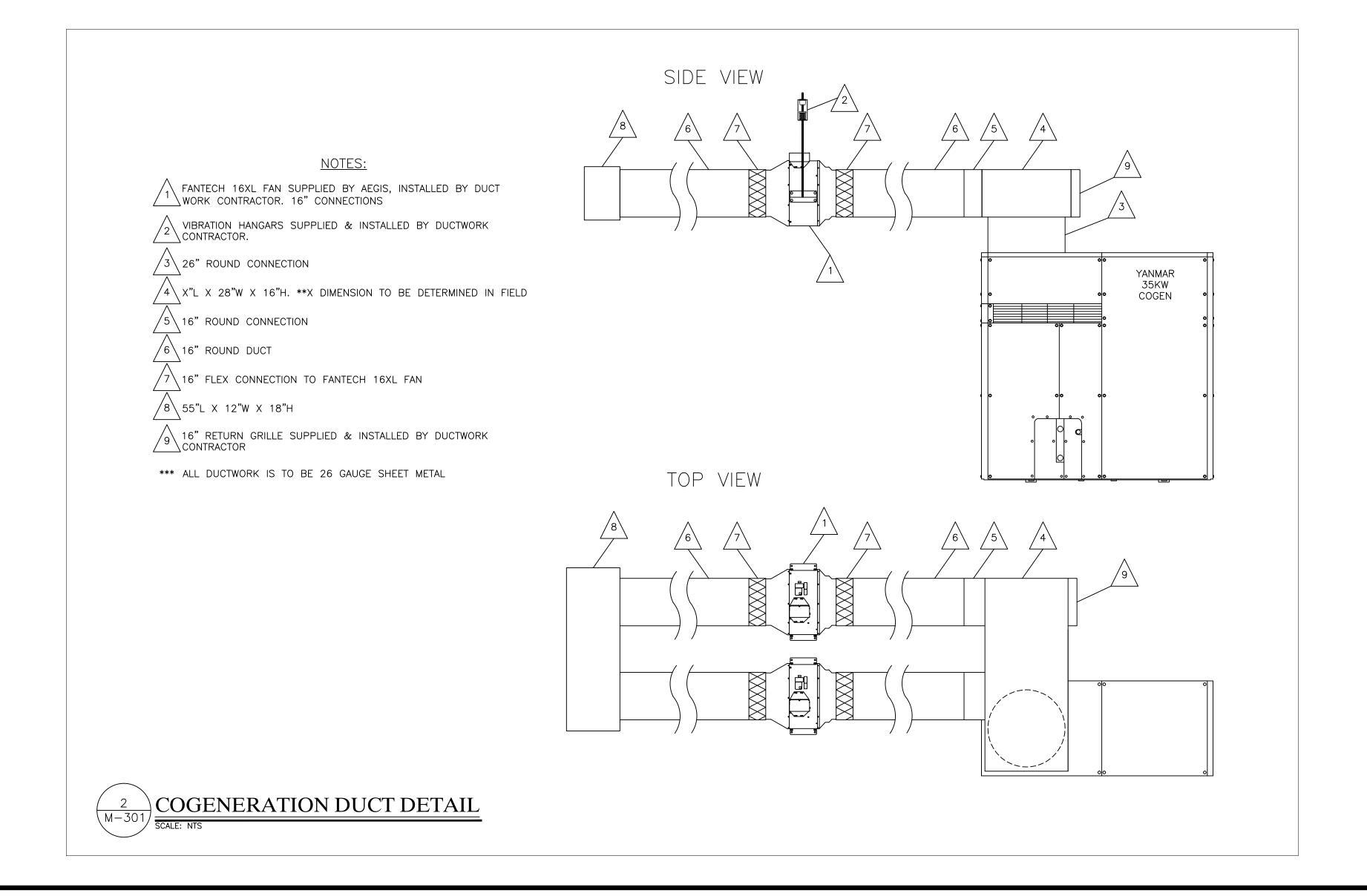
CELLAR MECHANICAL PLAN

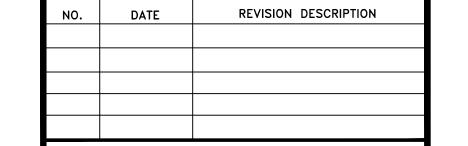
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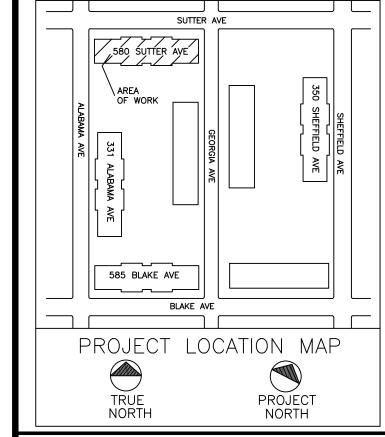
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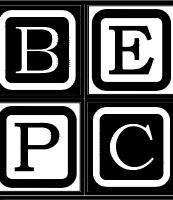
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PROJECT

REMEEDER HOUSE COGENERATION PROJECT 580 SUTTER AVE BROOKLYN, NY 11207

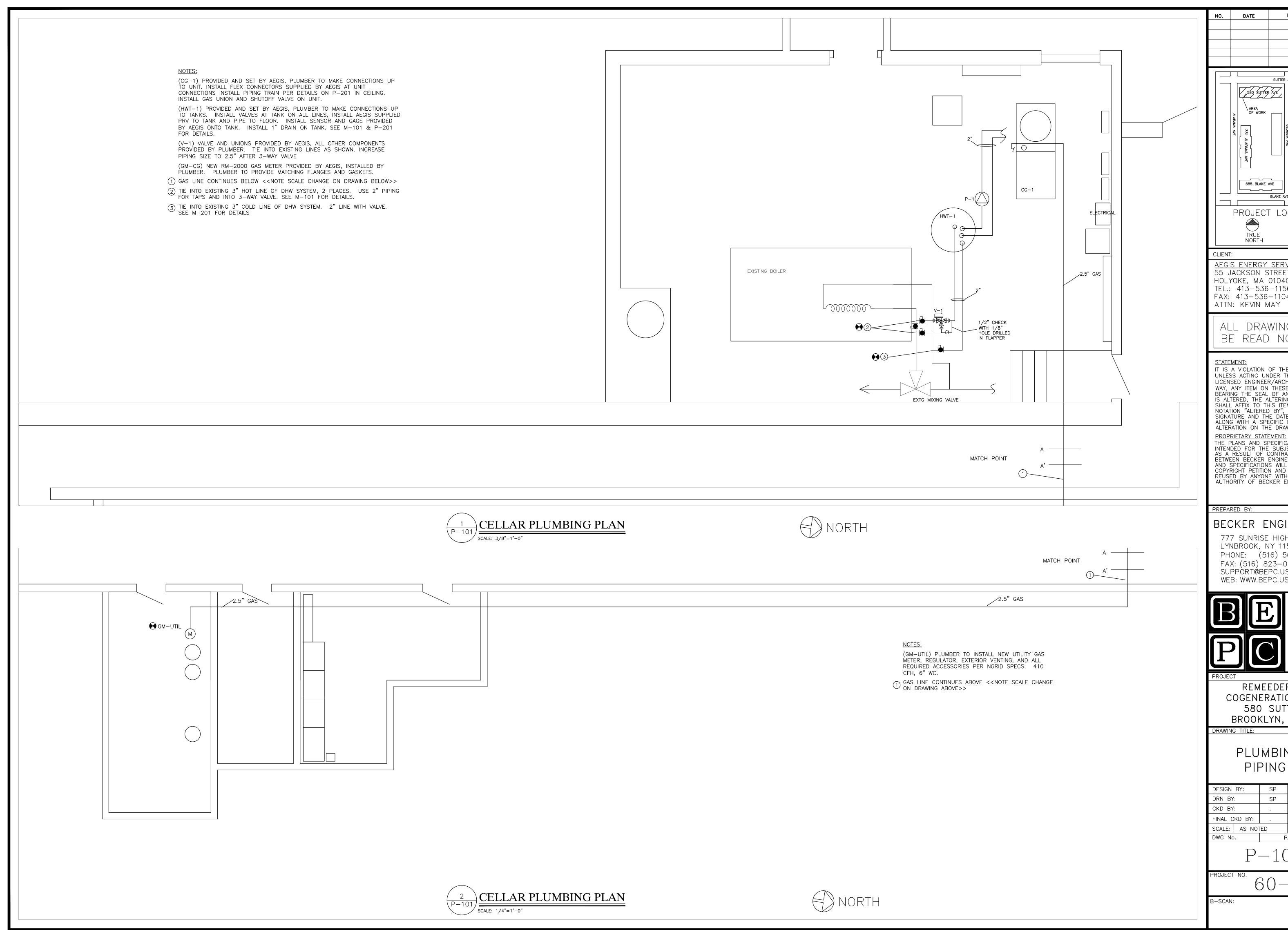
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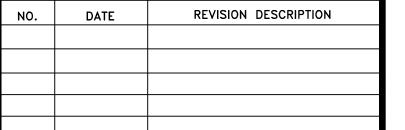
MECHANICAL/ HVAC DETAILS

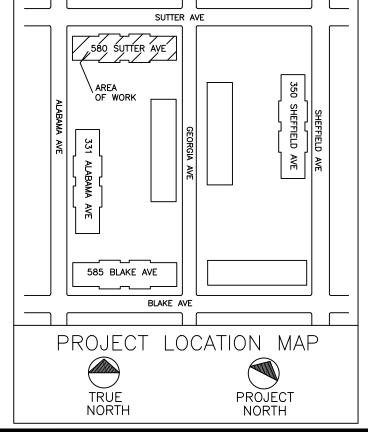
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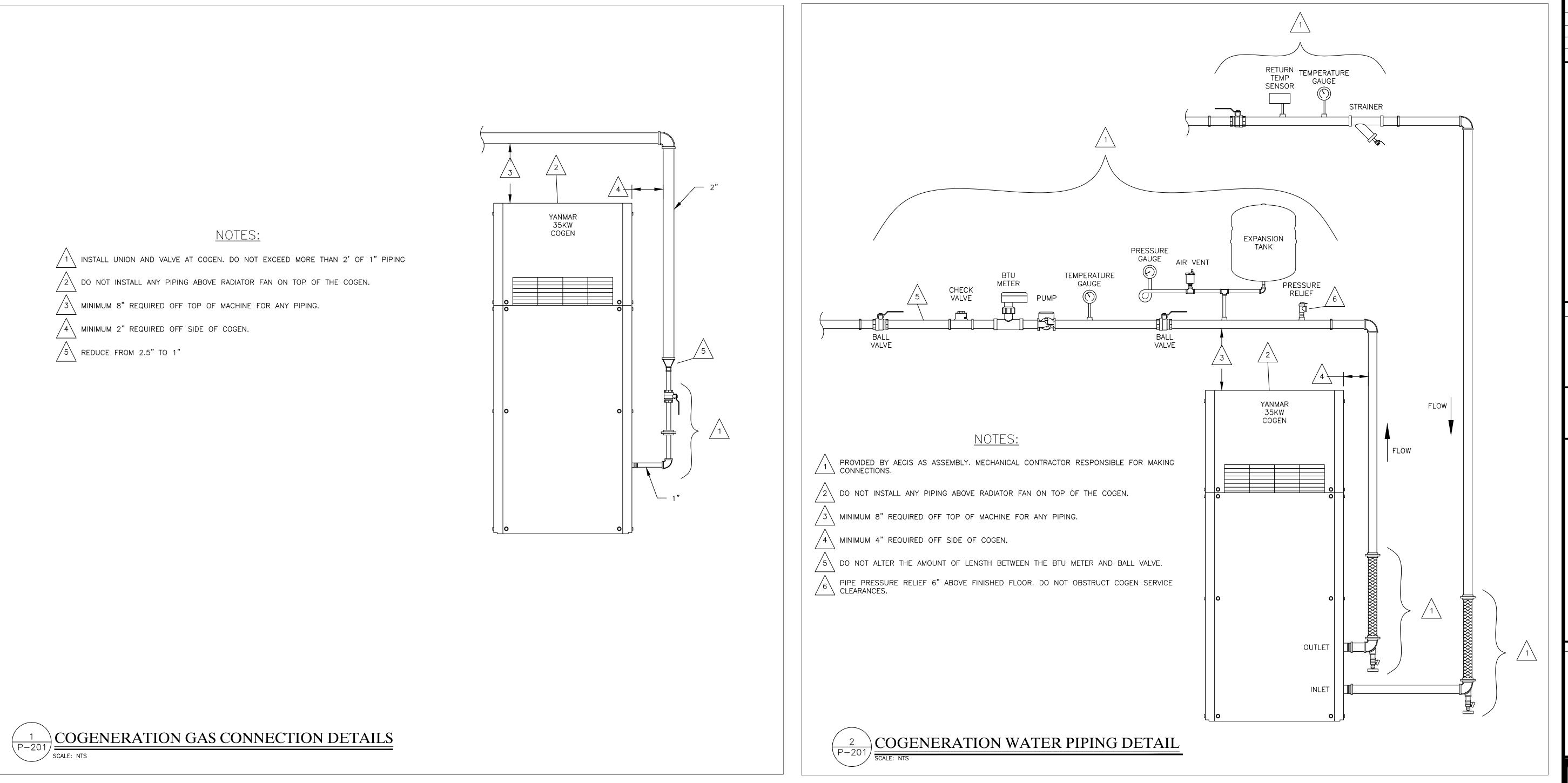
REMEEDER HOUSE COGENERATION PROJECT 580 SUTTER AVE BROOKLYN, NY 11207

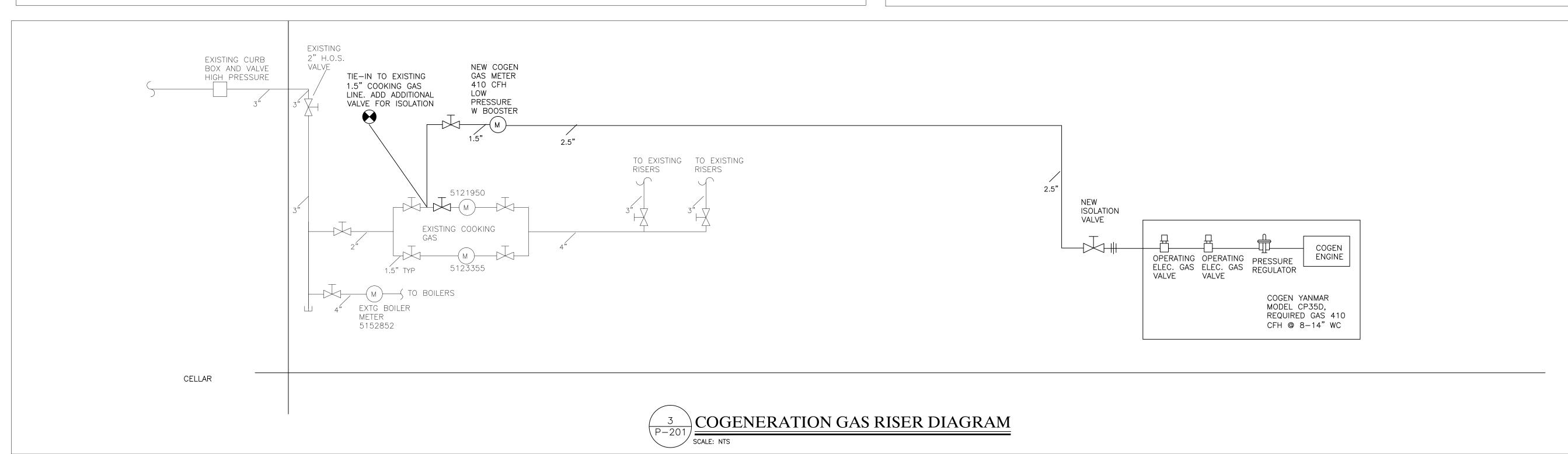
PLUMBING/GAS PIPING PLAN

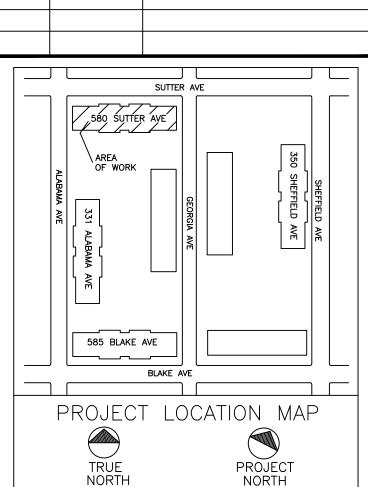
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REVISION DESCRIPTION

CLIENT:

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PROJECT

REMEEDER HOUSE COGENERATION PROJECT 580 SUTTER AVE BROOKLYN, NY 11207

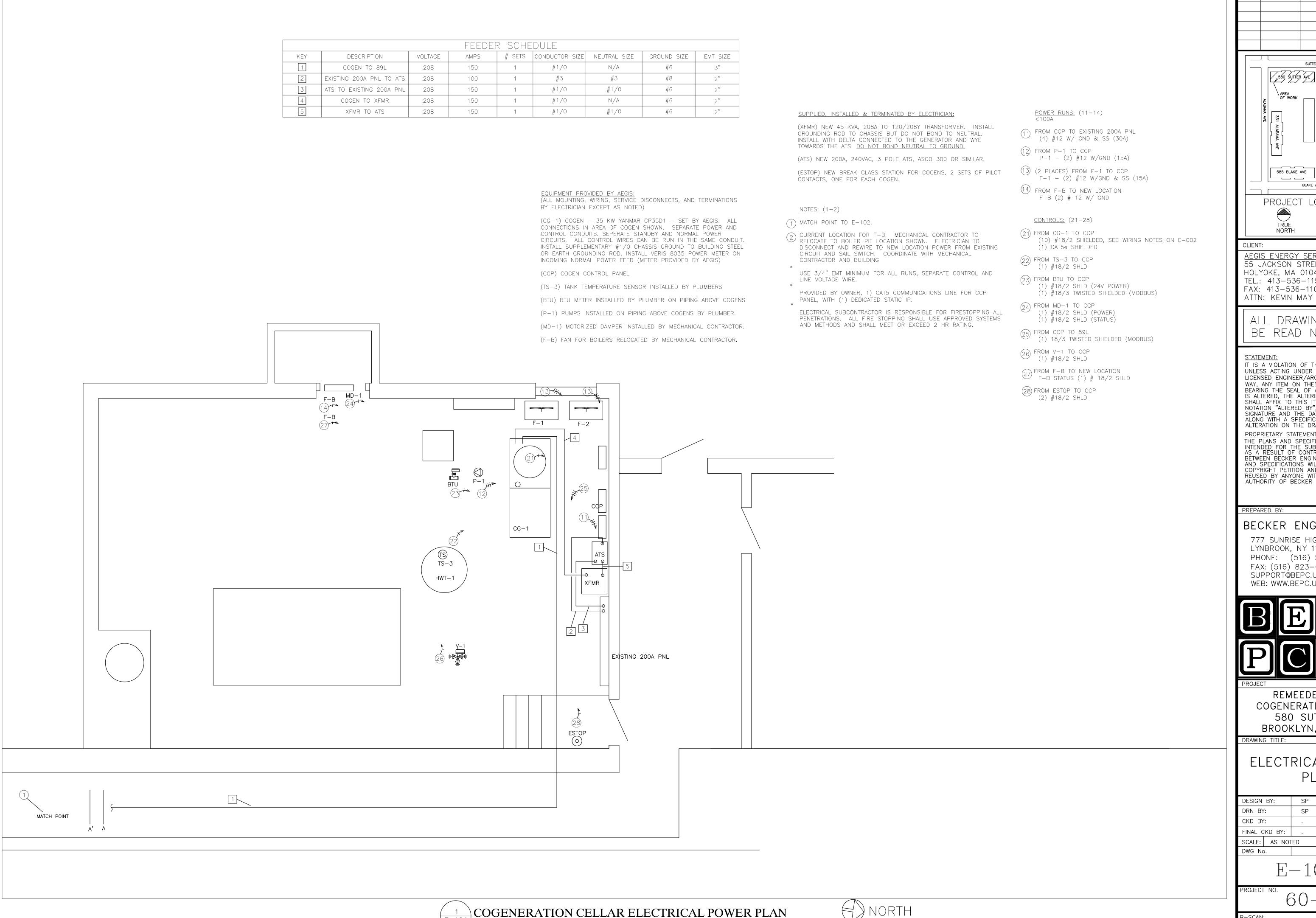
DRAWING 1

GAS RISER DIAGRAM

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AEGIS ENERGY SERVICES, INC 55 JACKSON STREET HOLYOKE, MA 01040 TEL.: 413-536-1156 FAX: 413-536-1104

> DRAWINGS ARE TO READ NOT SCALED

REVISION DESCRIPTION

SUTTER AVE

585 BLAKE AVE

BLAKE AVE

PROJECT LOCATION MAP

PROJECT

NO.

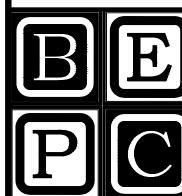
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REMEEDER HOUSE COGENERATION PROJECT 580 SUTTER AVE BROOKLYN, NY 11207

DRAWING TITLE:

ELECTRICAL CELLAR PLAN

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B-SCAN:

COGENERATION CELLAR ELECTRICAL POWER PLAN SCALE: 3/8"=1'-0"

	FEEDER SCHEDULE							
KEY	DESCRIPTION	VOLTAGE	AMPS	# SETS	CONDUCTOR SIZE	NEUTRAL SIZE	GROUND SIZE	EMT SIZE
1	COGEN TO 89L	208	150	1	#1/0	N/A	#6	3"
2	89L TO MAINS PANEL	208	150	1	#1/0	N/A	#1/0	2"

EQUIPMENT PROVIDED BY AEGIS:

(ALL MOUNTING, WIRING, SERVICE DISCONNECTS, AND TERMINATIONS BY ELECTRICIAN EXCEPT AS NOTED)

(MTR-MAINS) MAINS POWER METERING PANEL, INCLUDES VERIS E51 METER AND TERMINALS FOR POWER CT'S

(CT'S) INSTALL (6) CT'S ONTO MAINS ON LOAD SIDE OF CONED CT'S. DO NOT INSTALL IN CONED CT COMPARTMENT. INSTALL (3) 600A:5 FLEXCORE CT'S AND (3) FLEXIBLE "ROPE CT'S ON A/B/C CONDUCTORS.

SUPPLIED, INSTALLED & TERMINATED BY ELECTRICIAN:

(DC-VT'S) NEW 3P, 208V RATED, 30 AMP RATED, FUSED DISCONNECT WITH 15 AMP FUSES. VISIBLE BREAK, GANG OPERATED. TAP FROM ANY PANEL IN MAIN ELECTRIC ROOM

(89L) NEW 200A, 240A RATED 3 POLE FUSED DISCONNECT WITH 125A FUSES. TAP BUS ON EXISTING 1200A DISTRIBUTION PANEL. VISIBLE BREAK, GANG OPERATED, AT ARMS HEIGHT.

<u>NOTES:</u> (1-10)

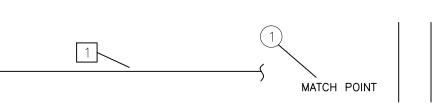
- * USE 3/4" EMT MINIMUM FOR ALL RUNS, SEPARATE CONTROL AND LINE VOLTAGE WIRE.
- * PROVIDED BY OWNER, 1) CATS COMMUNICATIONS LINE FOR CCP PANEL, WITH (1) DEDICATED STATIC IP.
- * ELECTRICAL SUBCONTRACTOR IS RESPONSIBLE FOR FIRESTOPPING ALL PENETRATIONS. ALL FIRE STOPPING SHALL USE APPROVED SYSTEMS AND METHODS AND SHALL MEET OR EXCEED 2 HR RATING.

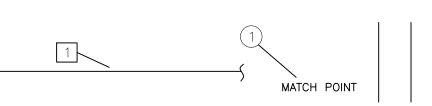
<u>POWER RUNS:</u> (11-12)

- (11) FROM DC-VT'S TO MTR-MAINS (4) #12 & GND (15A)
- 12) FROM CT'S TO MTR-MAINS (6) #12 W/GND (FLEXCORE CT'S) (3) #18/2 SHLD (ROPE CT'S)

CONTROLS: (21 ONLY) CONTROLS:

(1) #18/2 SHLD



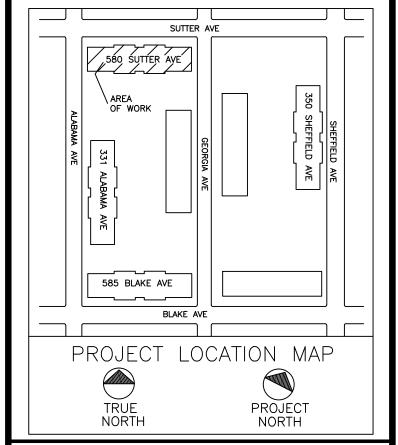


MTR-MAINS DC-VT'S

> CELLAR ELECTRICAL PLAN E-102 SCALE: 3/8"=1'-0"



NO. REVISION DESCRIPTION



CLIENT:

AEGIS ENERGY SERVICES, INC 55 JACKSON STREET HOLYOKE, MA 01040 TEL.: 413-536-1156 FAX: 413-536-1104 ATTN: KEVIN MAY

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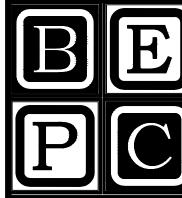
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REMEEDER HOUSE COGENERATION PROJECT 580 SUTTER AVE BROOKLYN, NY 11207

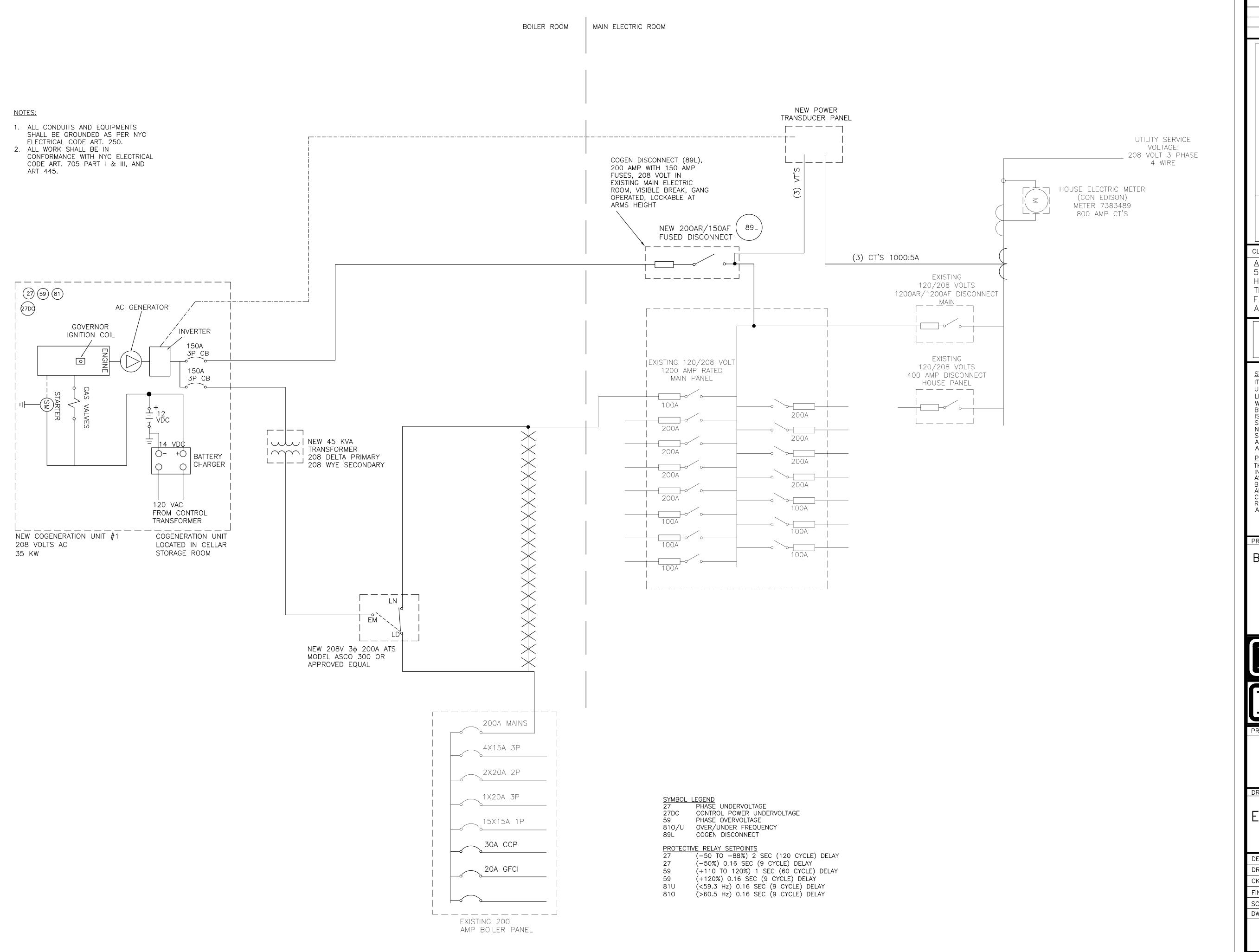
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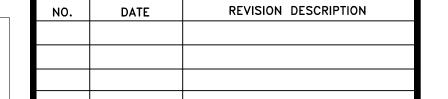
ELECTRICAL CELLAR PLAN

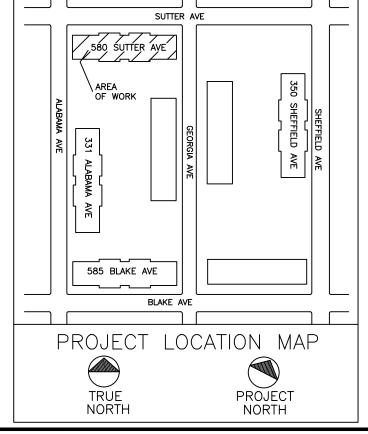
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<u>STATEMENT</u>

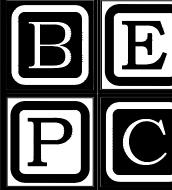
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PROJECT

REMEEDER HOUSE COGENERATION PROJECT 580 SUTTER AVE BROOKLYN, NY 11207

DRAWING TITLE:

ELECTRICAL ONE LINE DIAGRAM

	DESIGN	BY:	SP	DATE:	08/30/16
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B-SCAN:

COGENERATION ONE LINE DIAGRAM
SCALE: NTS