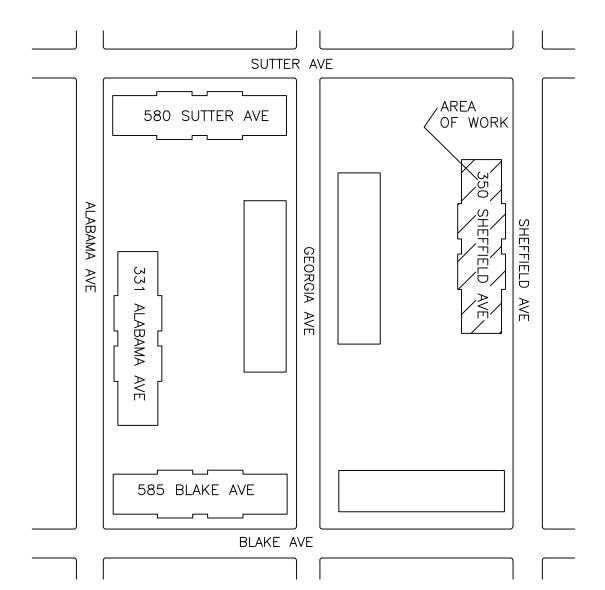
# REMEEDER HOUSE 350 SHEFFIELD AVE COGENERATION SYSTEM

(BLOCK 3770, LOT 22)

# DDAMINIO INIDEV.

E-201.00

DRAWING IN	<u>dex:</u>
SHEET NO.	<u>title of drawing</u>
T-101.00	TITLE SHEET, GENERAL NOTES & MECHANICAL SYMBOL LIST
G-101.00	ENERGY ANALYSIS
M-101.00	MECHANICAL/HVAC SCHEDULES & FLOW DIAGRAM
M-201.00	CELLAR MECHANICAL PLAN
M-301.00	MECHANICAL/HVAC DETAILS
P-101.00	PLUMBING/GAS PIPING PLAN
P-201.00	PLUMBING DETAIL & GAS RISER DIAGRAM
E-101.00	ELECTRICAL CELLAR PLAN
E-102.00	ELECTRICAL 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, 350 SHEFFIELD AVE, NEW YORK, NEW YORK, 11207

ADDRESS: 350 SHEFFIELD AVE BIN: 3328039 BLOCK: 3770 # BUILDINGS: 2 (ALL WORK AT 3328039) # FLOORS: 6 & CELLAR GROSS AREA: 63,288 # DWELLING UNITS: 65

YEAR OF CONSTRUCTION: 1974

# 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.
- 2. 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. 7. CONTRACTORS TO PROVIDE ALL NECESSARY TEMPORARY LIGHTING, POWER, WATER, WATERPROOFING, ETC. NEEDED TO
- ENSURE PROJECT SAFETY AT ALL TIMES. 8. 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
- 11. 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
- 14. 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 18. ALL WORK, UNLESS OTHERWISE SPECIFIED, TO BE GUARANTEED FOR A MINIMUM OF ONE YEAR FROM FINAL
- 19. 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:

- 1. 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 CONSTRUCTION.
- 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.
- 10. 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 2008 NEW YORK CITY BUILDING CODE
- TO THE BEST OF OUR KNOWLEDGE, BELIEF, AND PROFESSIONAL JUDGMENT, SUCH PLANS AND SPECIFICATIONS ARE IN CONFORMANCE WITH THE 2011 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,
- 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 - BC 1704.25 HEATING SYSTEMS 3. FIRESTOP, DRAFTSTOP & FIREBLOCK - BC 1704.27
- SPECIAL INSPECTIONS/PROGRESS (TR-1) **ENERGY CODE COMPLIANCE INSPECTIONS (TR-8)** ✓ MECHANICAL SYSTEMS HVAC & SERVICE WATER HEATING EQUIPMENT ✓ HEATING SYSTEMS BC 1704.25 FIRE-RESISTANT PENETRATIONS AND JOINTS DUCT PLENUM AND PIPING INSULATION & SEALING ☑ ENERGY CODE COMPLIANCE INSPECTION ✓ MAINTENANCE INFORMATION BC 110.3.5 IID1

# MECHANICAL SYMBOLS LIST:

METER

CIRCULATION PUMP TEMPERATURE SENSOR

BALL VALVE

BUTTERFLY VALVE UNION

THERMOMETER

PRESSURE RELIEF VALVE

STRAINER - Y TYPE

AQUASTAT

MANUAL AIR VENT  $\overline{\phantom{a}}$ FLOW DIRECTION

COGEN TEMPERATURE SENSOR

GATE VALVE

CHECK VALVE — FLOW CHECK

FAN/COIL UNIT

HEAT EXCHANGER

3-WAY VALVE

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

NORMALLY OPEN/ON NORMALLY CLOSED/OFF CLOSED WINTER

CLOSED SUMMER POINT OF CONNECTION TO EXISTING

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

-- HWS--- BUILDING HEAT SUPPLY —DHWR— BUILDING DHW RETURN

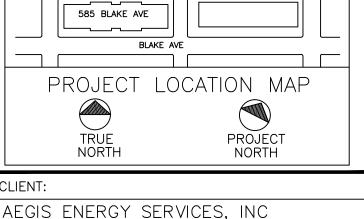
-- DHWS-- BUILDING DHW CIRCULATION

—c—— COGEN PROCESS LOOP PIPING -CDHW- COGEN DHW SUPPLY

—gs— GLYCOL SUPPLY

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

—g—— COGEN GAS LINE



REVISION DESCRIPTION

OF WORK

DATE

580 SUTTER AVE

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

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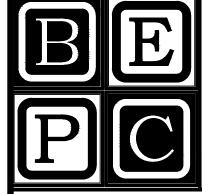
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INTENDED FOR THE SUBJECT PROJECT ONLY AND AS A RESULT OF CONTRACTUAL NEGOTIATIONS BETWEEN BECKER ENGINEERING, PC, THESE PLANS AND SPECIFICATIONS WILL BE THE SUBJECT OF A COPYRIGHT PETITION AND MAY NOT BE REVISED C REUSED BY ANYONE WITHOUT THE WRITTEN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

PREPARED BY:

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FAX: (516) 823-0219 EMAIL: SUPPORT@BEPC.US WEB: WWW.BEPC.US



REMEEDER HOUSE COGENERATION PROJECT 350 SHEFFIELD 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 NOT	ΓED	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 WATER 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 SEASONALLY DEPENDENT FUNCTIONALITY, SUCH TESTING SHALL BE 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	APPROVED CONSTRUCTION DOCUMENTS INCLUDING	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 NYCECO	C — CHAPTER C4, CLIMATE ZONE 4								
EQUIPMENT										
ITEM TAG COGENERATION 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								

El	ectric	Usage ar	nd Costs \	With	AEGIS :	35k'	W Cogen	Pla	nt Total	
		kW		Со	ESCO	Electric				
Date	Days	Demand	kWh	D	elivery		Supply	(	Charges	
12/22/2014	·				-				<u>_</u>	
1/21/2015	30	94	31,060	\$	3,888	\$	3,333	\$	7,221	
2/20/2015	30	91	29,380	\$	3,380	\$	3,152	\$	6,532	
3/22/2015	30	80	24,380	\$	3,255	\$	2,616	\$	5,871	
4/22/2015	31	77	23,582	\$	3,027	\$	2,530	\$	5,557	
5/21/2015	29	89	27,678	\$	3,174	\$	2,970	\$	6,144	
6/22/2015	32	98	18,784	\$	3,771	\$	2,016	\$	5,786	
7/22/2015	30	82	25,220	\$	3,497	\$	2,706	\$	6,203	
8/22/2015	31	78	24,422	\$	3,465	\$	2,620	\$	6,085	
9/23/2015	32	84	27,784	\$	3,859	\$	2,981	\$	6,840	
10/22/2015	29	66	17,458	\$	2,309	\$	1,873	\$	4,182	
11/22/2015	31	51	11,102	\$	1,770	\$	1,191	\$	2,961	
12/22/2015	30	91	29,340	\$	3,652	\$	3,148	\$	6,800	
 Total:	365	98	290,190	\$	39,046	\$	31,138	\$	70,183	

Elec	tric Us	sage and	Costs Wi	tho	ut AEGIS	35	kW Coge	n F	Plant Total	
		kW			nEd SC8		ESCO	Electric		
Date	Days	Demand	kWh	D	elivery		Supply		Charges	
12/22/2014										
1/21/2015	30	118	55,000	\$	5,673	\$	5,902	\$	11,57	
2/20/2015	30	114	53,320	\$	4,890	\$	5,721	\$	10,61	
3/22/2015	30	103	48,320	\$	5,091	\$	5,185	\$	10,270	
4/22/2015	31	100	48,320	\$	4,747	\$	5,185	\$	9,93	
5/21/2015	29	112	50,820	\$	4,611	\$	5,453	\$	10,06	
6/22/2015	32	121	44,320	\$	5,457	\$	4,756	\$	10,21	
7/22/2015	30	105	49,160	\$	5,090	\$	5,275	\$	10,36	
8/22/2015	31	102	49,160	\$	5,131	\$	5,275	\$	10,40	
9/23/2015	32	107	53,320	\$	5,593	\$	5,721	\$	11,31	
10/22/2015	29	90	40,600	\$	3,711	\$	4,356	\$	8,06	
11/22/2015	31	74	35,840	\$	3,403	\$	3,846	\$	7,24	
12/22/2015	30	114	53,280	\$	5,387	\$	5,717	\$	11,10	
 Total:	365	121	581,460	\$	58,783	\$	62,391	\$	121,17	

Remeeder House

350 Sheffield Ave Brooklyn, NY 11207

Energy Expenses Without AEGIS

**Energy Expenses With AEGIS** 

58,783

62,391

14,164

26,938

CP35D

39,046

31,138

17,414

8,970

8,164

48,170

(6,242)

\$ 114,106

\$ 41,929

9,375

162,276

ConEd SC8 Electric Delivery

N-Grid T-3 Boiler Gas Delivery

ConEd SC8 Electric Delivery

N-Grid T-3 Boiler Gas Delivery

Direct Energy Boiler Gas Supply

N-Grid 4-A Cogen Gas Delivery

N-Grid 4-A Cogen Gas Supply

ESCO Electric Supply

**Gross Savings** 

Cogen Maintenance

**Net Savings:** 

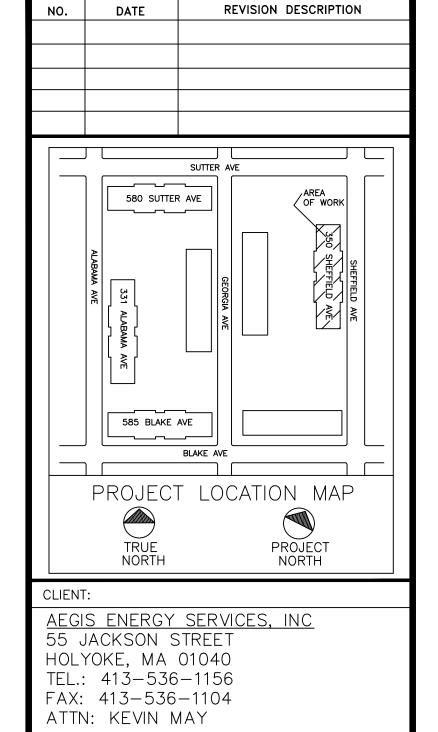
Direct Energy Boiler Gas Supply

ESCO Electric Supply

Unit Type

# Of Units

		Fuell	Jsage W	ithout A	EGIS	AEGIS 3	5 kW Co	gen Plan	t Hours	Fuel U	sage W	AEGIS		With	out	AEGIS C	osts	S				With	ı AEC	GIS Co	sts			
		Total	DHW	Sp. Ht.	Displ.	Cogen	Cogen	Cogen	Total	Suppl.	Cogen	Total		l-Grid	Dire	ct Energy			N	-Grid	Dir	ect Energy	N-	Grid	N-	-Grid		
		Gas	Gas	Gas	Heat	Run	#1 Daily	Dump	Cogen	Gas	Gas	Gas	∥ т	3 Gas	Во	iler Gas	-	Total	Т	3 Gas	В	oiler Gas	4-A	Cogen	4-A	Cogen	,	Total
Date	Days	Therms	Therms	Therms	Therms	Hours	Hours	Hours	Hours	Therms	Therms	Therms	De	elivery	5	Supply	Cł	narges	De	livery		Supply	Gas E	Delivery	Gas	Supply	C	harges
1/5/15																												
2/4/15	30	9,347	1,528	7,819	1,024	473	24	211	684	7,906	2,784	10,690	\$	2,513	\$	5,078	\$	7,592	\$	2,145	\$	4,295	\$	737	\$	852	\$	8,029
3/7/15	31	8,912	1,579	7,333	1,058	489	24	218	707	7,423	2,877	10,300	\$	2,406	\$	4,842	\$	7,248	\$	2,025	\$	4,033	\$	762	\$	833	\$	7,652
4/5/15	29	7,288	1,477	5,811	989	457	24	204	661	5,895	2,691	8,586	\$	1,982	\$	3,959	\$	5,942	\$	1,626	\$	3,203	\$	713	\$	642	\$	6,184
5/5/15	30	3,559	1,528	2,031	1,024	473	24	211	684	2,118	2,784	4,902	\$	1,032	\$	1,934	\$	2,966	\$	663	\$	1,151	\$	737	\$	681	\$	3,232
6/4/15	30	2,057	1,528	529	1,024	473	24	211	684	616	2,784	3,400	\$	648	\$	1,118	\$	1,765	\$	249	\$	335	\$	737	\$	507	\$	1,827
7/6/15	32	1,922	1,630	292	1,092	505	24	225	730	385	2,969	3,355	\$	621	\$	1,044	\$	1,665	\$	174	\$	209	\$	786	\$	610	\$	1,780
8/5/15	30	1,555	1,555	ı	1,042	481	24	203	684	90	2,784	2,874	\$	519	\$	845	\$	1,364	\$	72	\$	49	\$	737	\$	543	\$	1,402
9/4/15	30	1,503	1,503	ı	1,007	466	24	218	684	84	2,784	2,868	\$	506	\$	817	\$	1,322	\$	70	\$	46	\$	737	\$	577	\$	1,430
10/5/15	31	1,576	1,576	ı	1,056	488	24	219	707	89	2,877	2,966	\$	528	\$	856	\$	1,385	\$	74	\$	49	\$	762	\$	648	\$	1,532
11/6/15	32	3,344	1,630	1,714	1,092	505	24	225	730	1,807	2,969	4,777	\$	985	\$	1,817	\$	2,802	\$	592	\$	982	\$	786	\$	703	\$	3,063
12/6/15	30	3,742	1,528	2,214	1,024	473	24	211	684	2,301	2,784	5,085	\$	1,079	\$	2,033	\$	3,112	\$	710	\$	1,250	\$	737	\$	734	\$	3,431
1/5/16	30	4,779	1,528	3,251	1,024	473	24	211	684	3,338	2,784	6,122	\$	1,344	\$	2,596	\$	3,941	\$	975	\$	1,814	\$	737	\$	834	\$	4,360
Total:	365	49,584	18,587	30,997	12,453	5,758		2,564	8,322	32,053	33,871	65,924	\$	14,164	\$	26,938	\$	41,102	\$	9,375	\$	17,414	\$	8,970	\$	8,164	\$	43,923



ALL DRAWINGS ARE TO BE READ NOT SCALED.

STATEMENT:

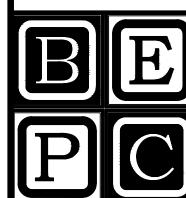
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PREPARED B

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



PROJECT

REMEEDER HOUSE COGENERATION PROJECT 350 SHEFFIELD AVE BROOKLYN, NY 11207

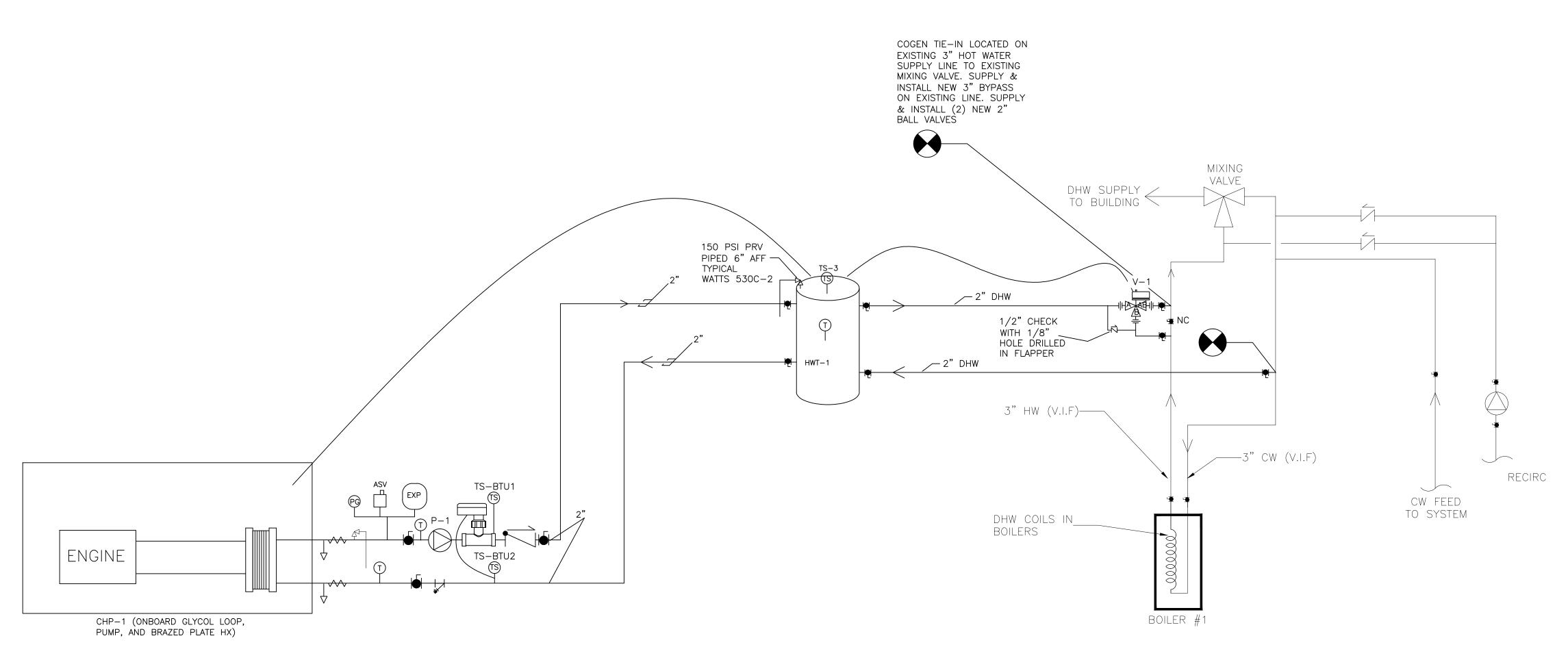
DRAWING TITLE

ENERGY ANALYSIS

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

G-101.00

60 - 339



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 SC	HEDULE 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

TEMPERATURE SENSOR SCHEDULE

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.

SENSOR MODEL NO.

MAMAC TE-703-C-5A

MAMAC TE-703-C-5A

MAMAC TE-703-C-5A

WELL TYPE

AT-225

AT-225

AT-225

SERVICE

TS-BTU2 COGEN LOOP LEAVING H.X.-1

TS-BTU1 COGEN SUPPLY

TS-3 TANK TEMPERATURE

TS NO.

PUI	MP SCHEDULE					
PUMP NO.	SERVICE	FLOW	HEAD	PUMP H.P.	PHASE	PUMP MODEL
P-1	COGEN LOOP	40 GPM	17 FT	1/2 HP	1 PH	GRUNDFOS UPS 43-100 SF

CON	NTROL 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

SHEFFIELD AVE  SHORGIA AVE  SHORGIA AVE  SHEFFIELD AVE	
PROJECT LOCATION MAP	

REVISION DESCRIPTION

PROJECT

CLIENT:

NO.

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

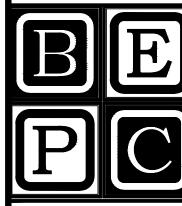
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PREPARED BY:

# 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 350 SHEFFIELD AVE BROOKLYN, NY 11207

MECHANICAL/HVAC SCHEDULES & FLOW DIAGRAM

	DESIGN	BY:	SP	DATE:	08/30/16
	DRN BY	<b>':</b>	SP	DATE:	08/30/16
	CKD BY:  FINAL CKD BY:  SCALE: AS NOT DWG No.		•	DATE:	•
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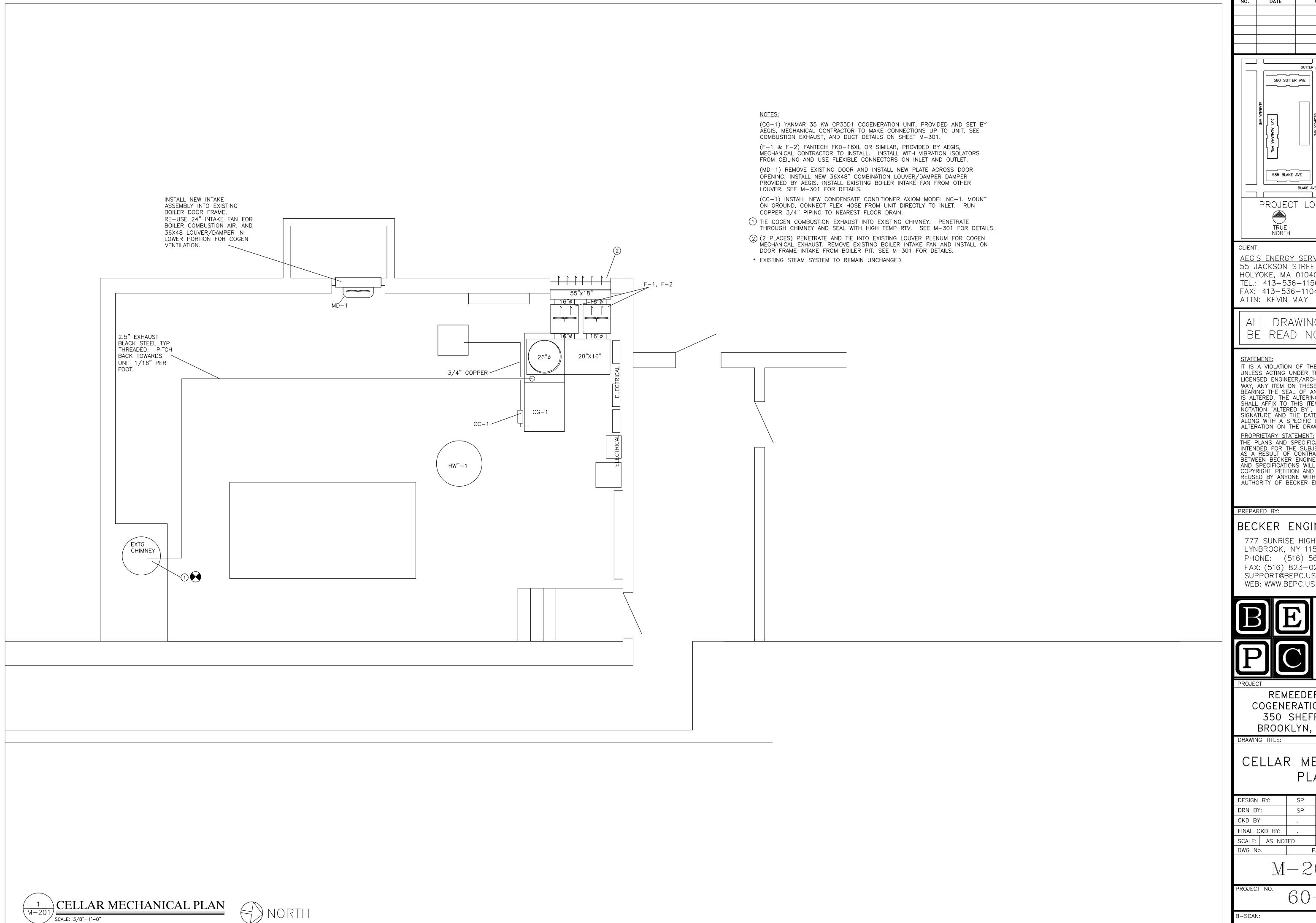
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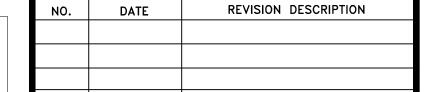
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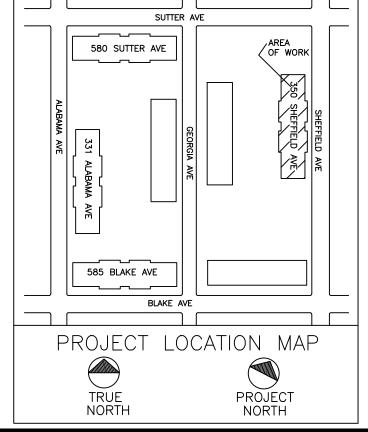
B-SCAN:

COGENERATION MECHANICAL FLOW DIAGRAM

SCALE: NTS







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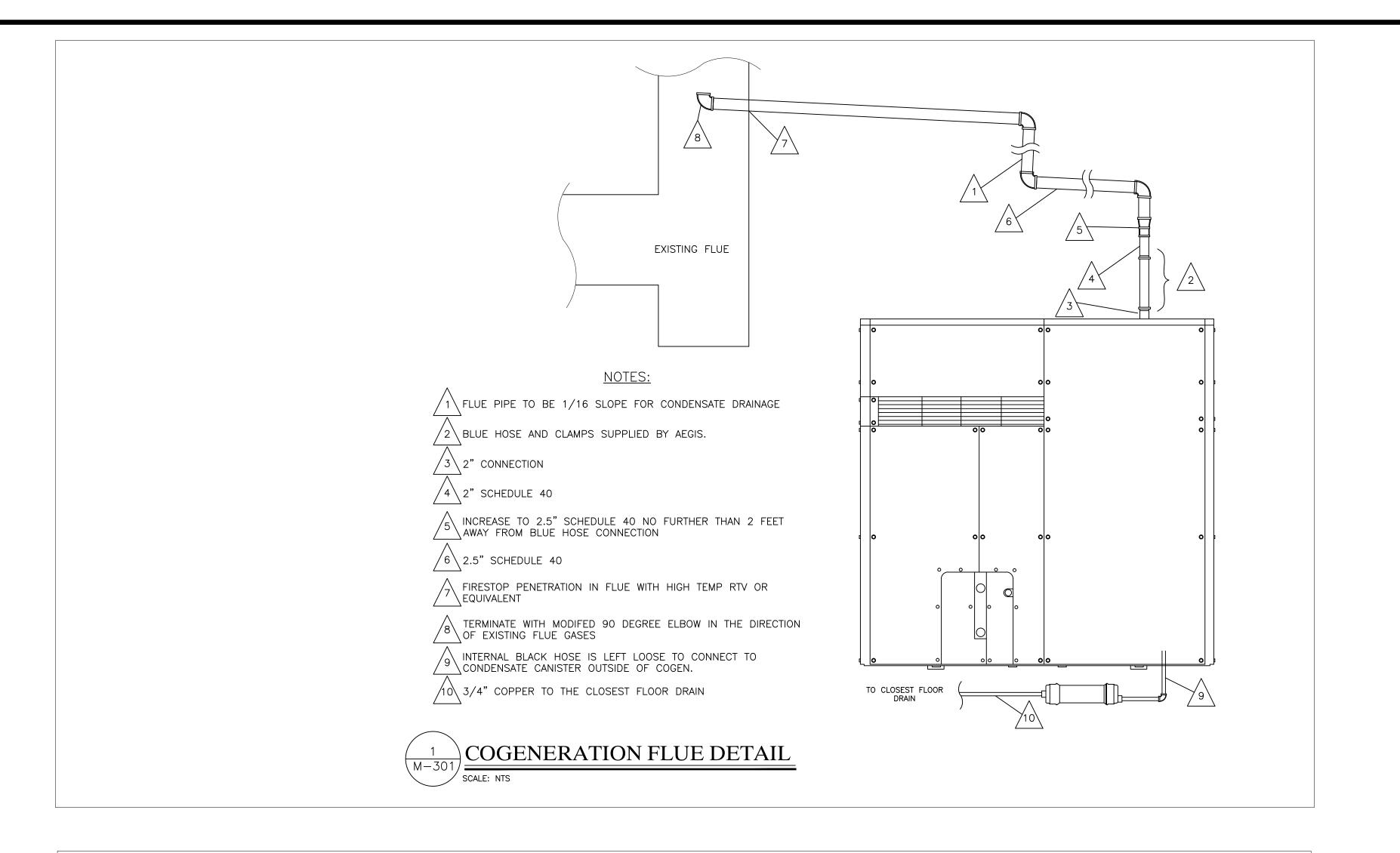
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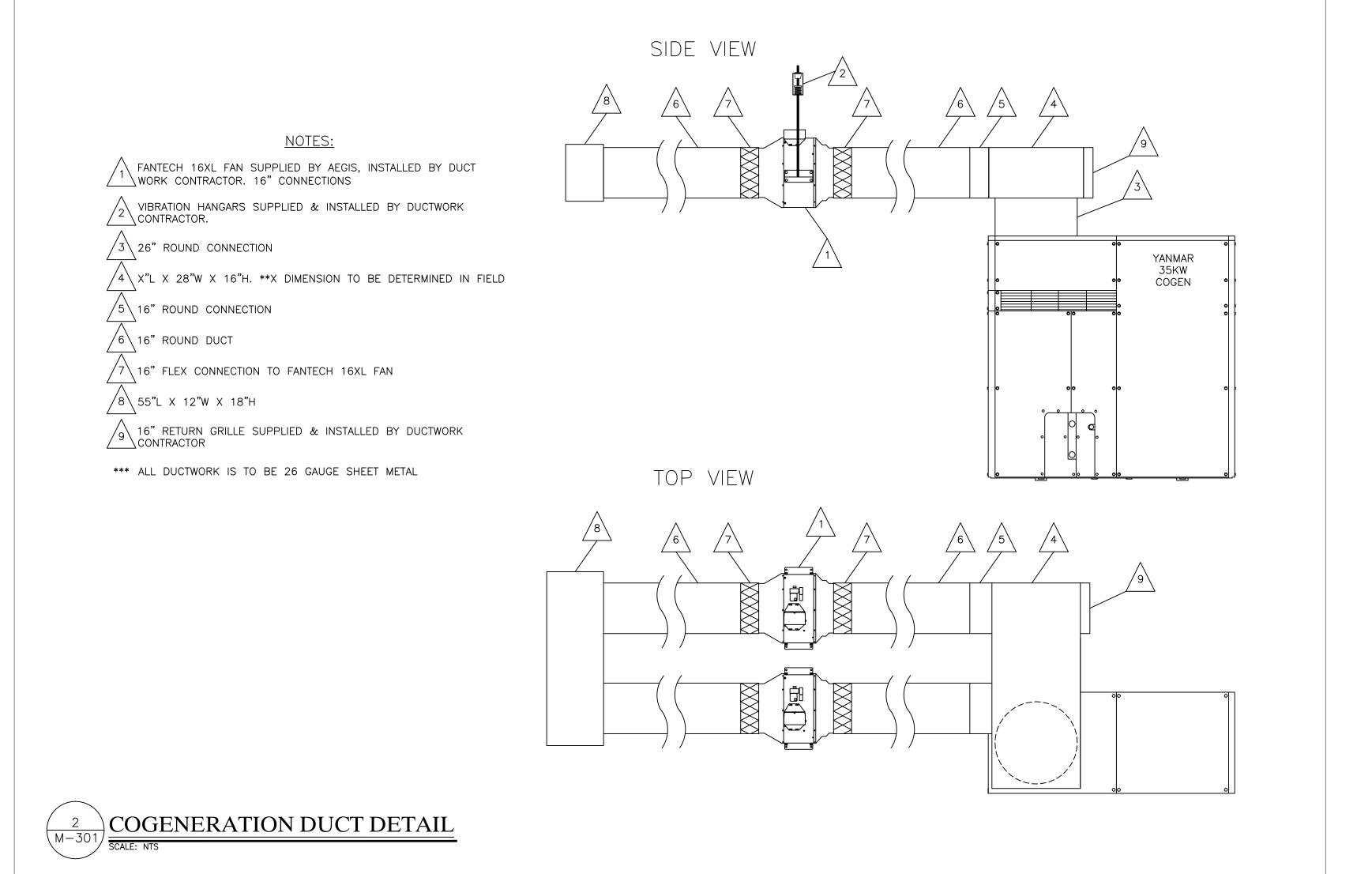
# CELLAR MECHANICAL PLAN

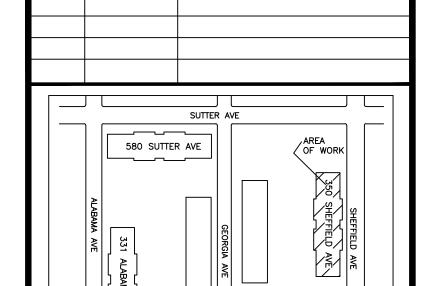
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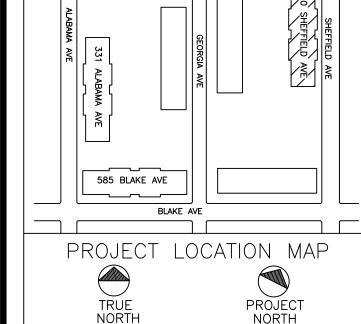
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REVISION DESCRIPTION



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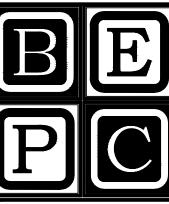
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PROJECT

REMEEDER HOUSE COGENERATION PROJECT 350 SHEFFIELD AVE BROOKLYN, NY 11207

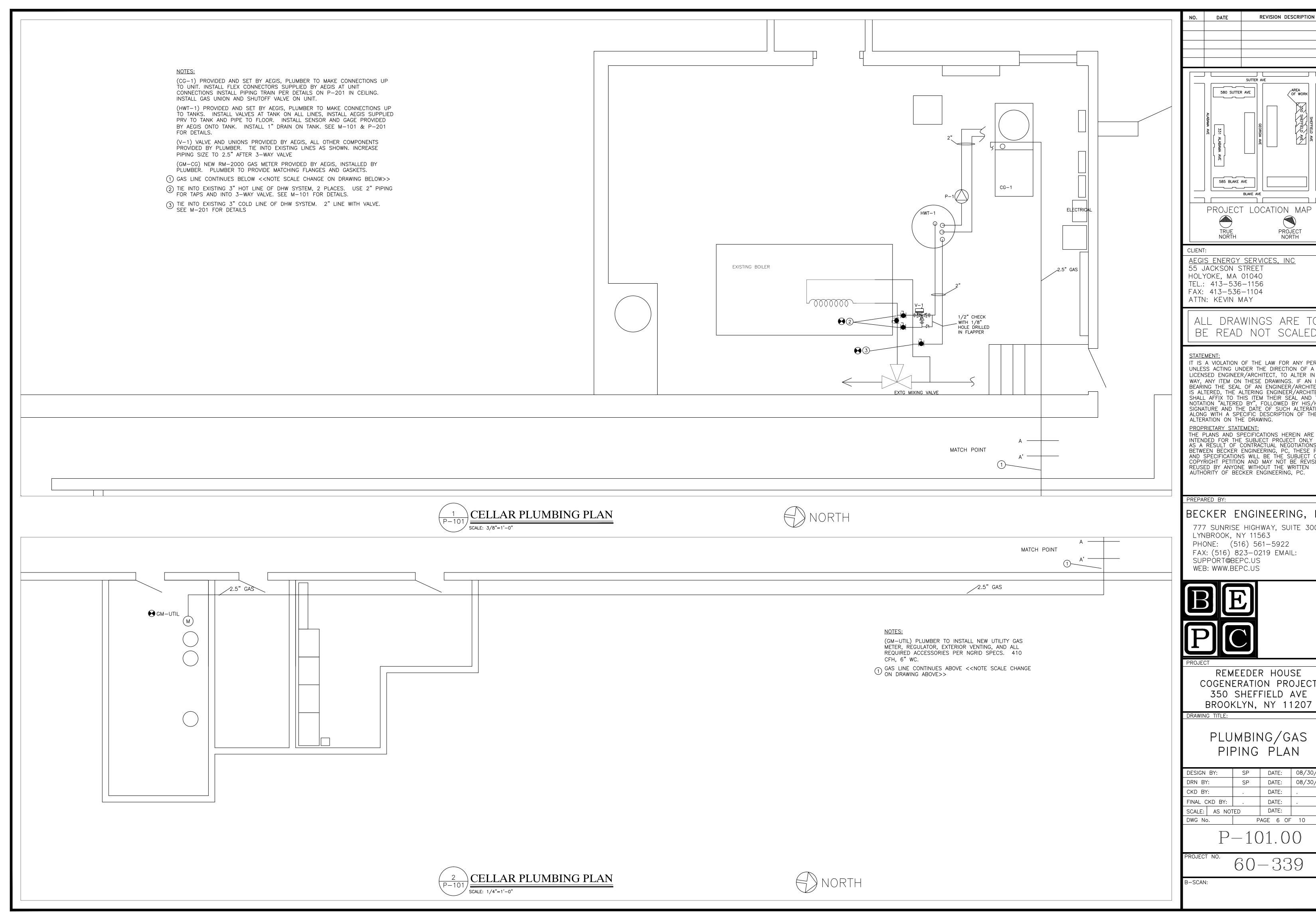
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MECHANICAL/ HVAC DETAILS

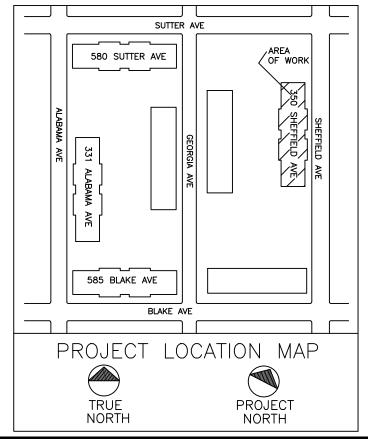
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REVISION DESCRIPTION



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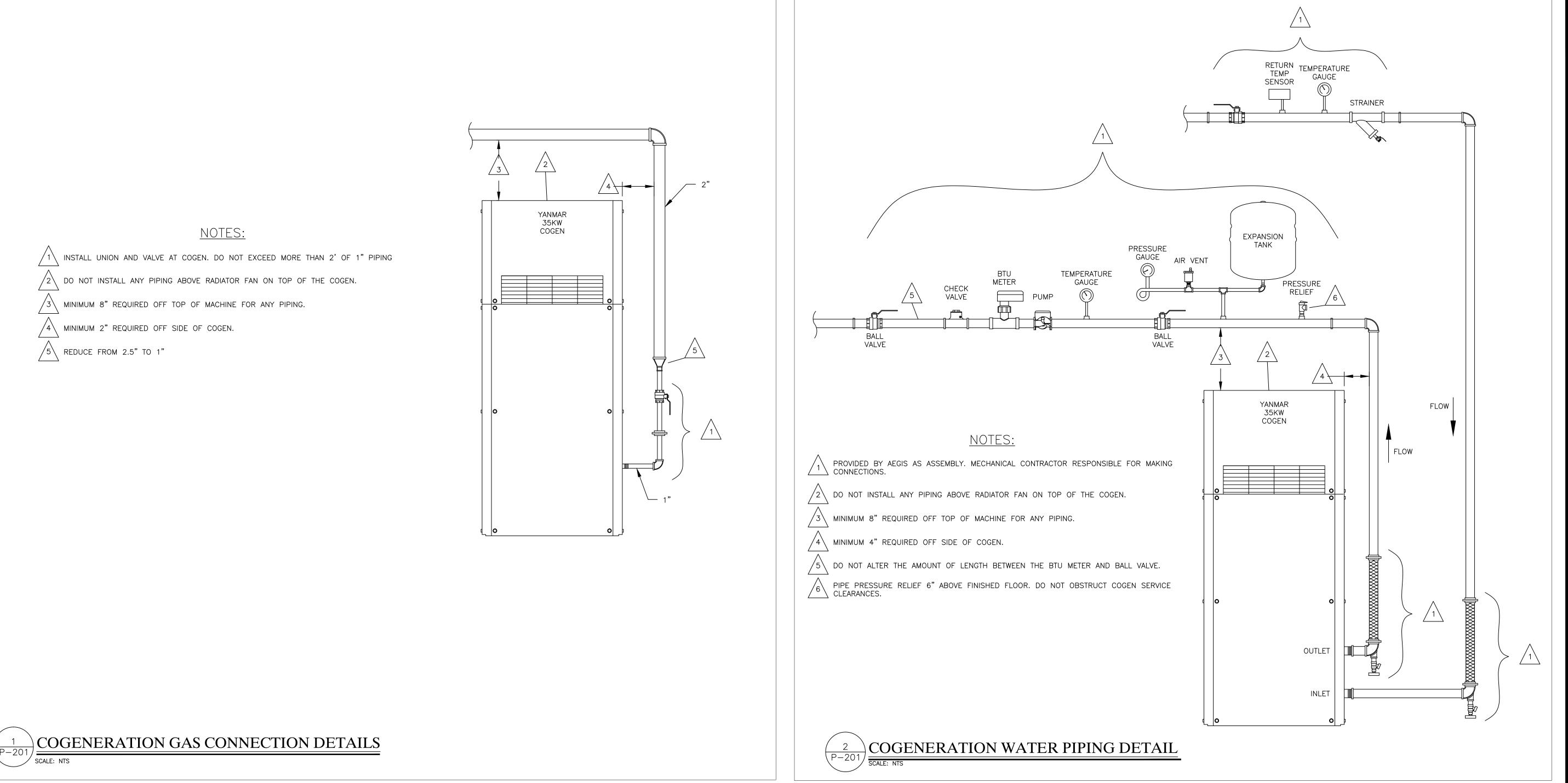
COGENERATION PROJECT 350 SHEFFIELD AVE BROOKLYN, NY 11207

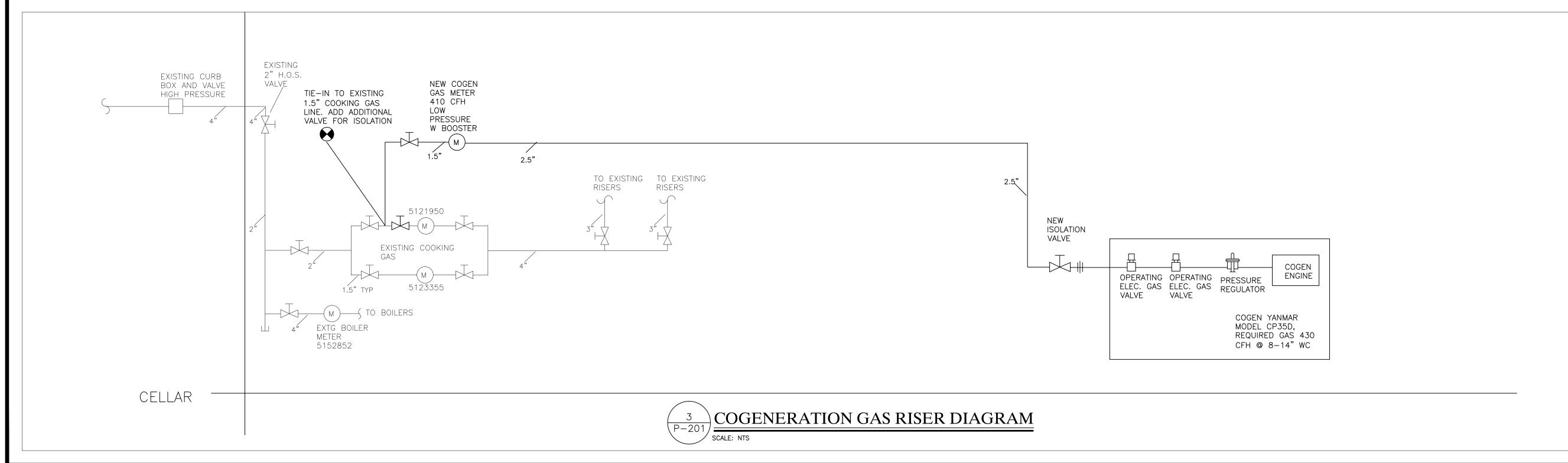
# PLUMBING/GAS PIPING PLAN

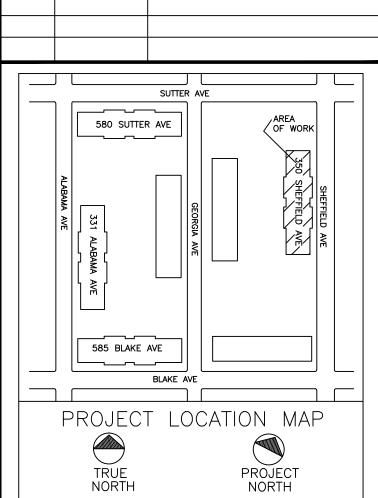
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60 - 339







REVISION DESCRIPTION

## CLIENT:

NO.

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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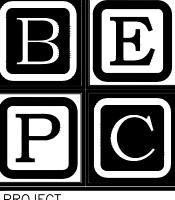
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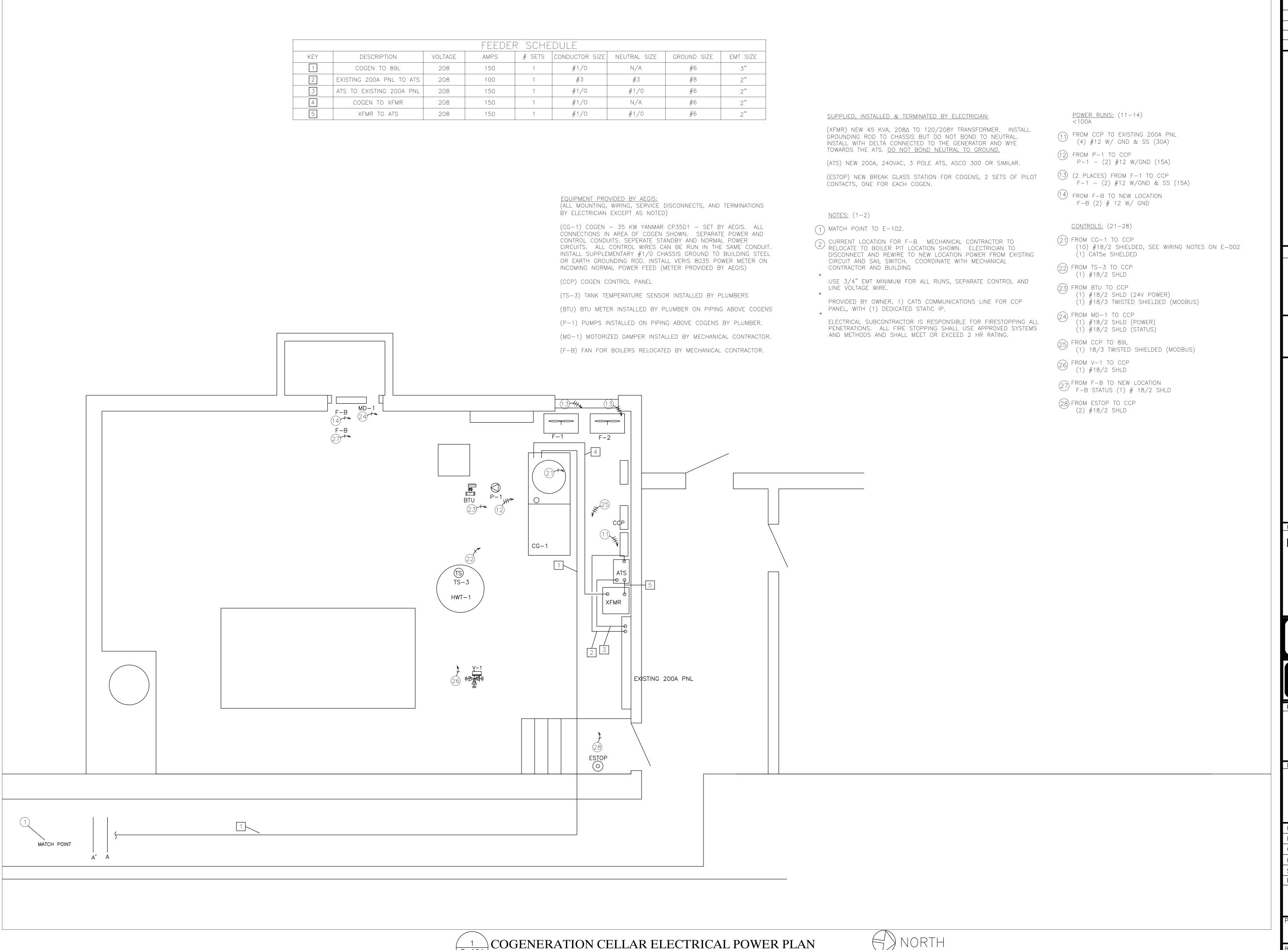
REMEEDER HOUSE COGENERATION PROJECT 350 SHEFFIELD AVE BROOKLYN, NY 11207

# PLUMBING DETAIL & GAS RISER DIAGRAM

DESIGN BY:	SP	DATE:	08/30/16
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SCALE: 3/8"=1'-0"

CLIENT:

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REVISION DESCRIPTION

AREA OF WORK

SUTTER AVE

\_\_\_\_

580 SUTTER AVE

585 BLAKE AVE

\_\_\_\_

BLAKE AVE

PROJECT LOCATION MAP

PROJECT

TATEMENT:

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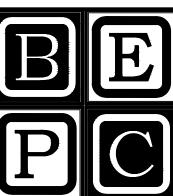
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PROJECT

REMEEDER HOUSE COGENERATION PROJECT 350 SHEFFIELD AVE BROOKLYN, NY 11207

DRAWING TITLE:

# ELECTRICAL CELLAR PLAN

DESIGN BY:  DRN BY:  CKD BY:  FINAL CKD BY:  SCALE: AS NOT DWG No.		SP	DATE:	08/30/16
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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)

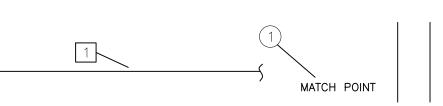
- \* USE 3/4" EMT MINIMUM FOR ALL RUNS, SEPARATE CONTROL AND LINE VOLTAGE WIRE.
- \* PROVIDED BY OWNER, 1) CATS COMMUNICATIONS LINE FOR CCP PANEL, WITH (1) DEDICATED STATIC IP.
- \* ELECTRICAL SUBCONTRACTOR IS RESPONSIBLE FOR FIRESTOPPING ALL PENETRATIONS. ALL FIRE STOPPING SHALL USE APPROVED SYSTEMS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

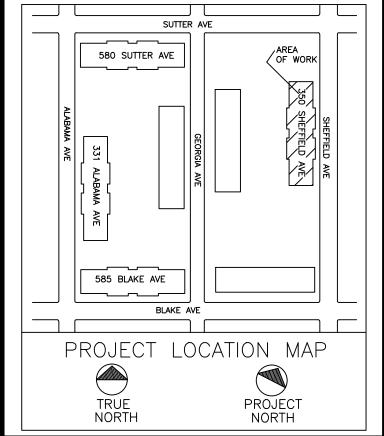


MTR-MAINS DC-VT'S





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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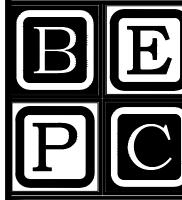
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PREPARED BY:

# BECKER ENGINEERING, PC

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REMEEDER HOUSE COGENERATION PROJECT 350 SHEFFIELD AVE BROOKLYN, NY 11207

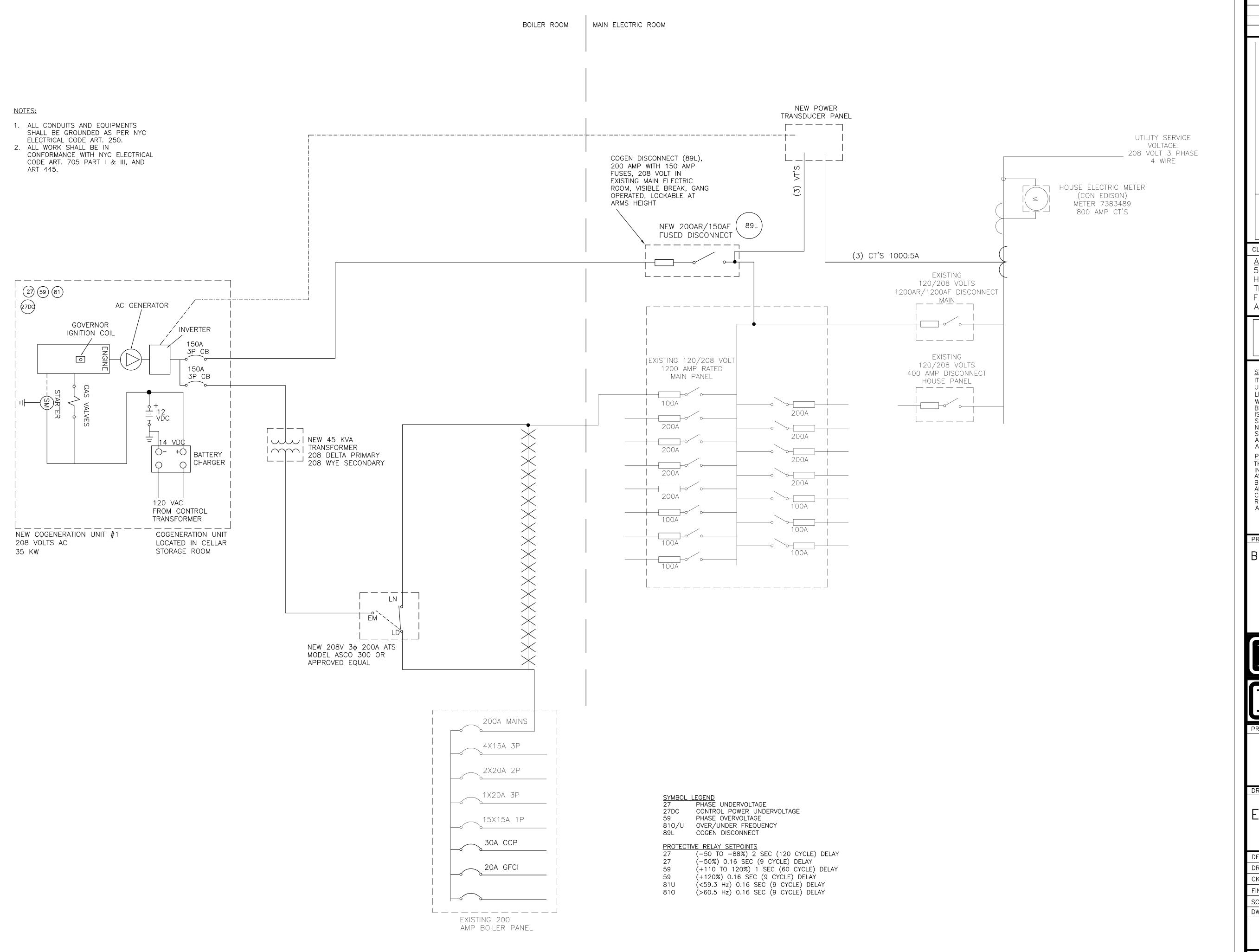
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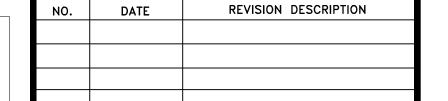
# ELECTRICAL CELLAR PLAN

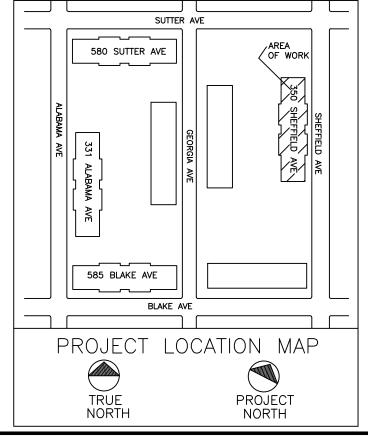
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PROJECT

REMEEDER HOUSE COGENERATION PROJECT 350 SHEFFIELD AVE BROOKLYN, NY 11207

DRAWING TITLE:

# ELECTRICAL ONE LINE DIAGRAM

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B-SCAN:

COGENERATION ONE LINE DIAGRAM
SCALE: NTS