SAFETY NOTES:

GENERAL: ALL WORK TO BE DONE IN ACCORDANCE WITH THE INTERNATIONAL MECHANICAL CODE AND REGULATIONS OF ALL OTHER AGENCIES HAVING JURISDICTION.

STRUCTURAL: NO STRUCTURAL WORK TO BE DONE UNDER THIS APPLICATION. 2.

MEANS OF EGRESS: ALL EXISTING MEANS OF EGRESS FOR TENANTS OF THE BUILDING TO BE MAINTAINED CLEAR AND FREE OF ALL OBSTRUCTIONS, SUCH AS BUILDING MATERIALS, TOOLS, ETC.

FIRE SAFETY: ALL BUILDING MATERIALS STORED AT CONSTRUCTION AREA, AND/OR IN ANY AREA OF THE BUILDING ARE TO BE SECURED IN A LOCKED AREA. ACCESS TO SUCH AREAS TO BE CONTROLLED BY OWNER AND/OR GENERAL CONTRACTOR.

DUST CONTROL: DEBRIS, DIRT, AND DUST TO BE KEPT TO A MINIMUM, AND BE CONFINED TO THE IMMEDIATE 5. CONSTRUCTION AREA; AND BE CLEANED UP AND CLEARED FROM BUILDING PERIODICALLY TO AVOID ANY EXCESSIVE ACCUMULATION.

NOISE AFTER HOURS: CONSTRUCTION OPERATIONS WILL BE CONFINED TO NORMAL WORKING HOURS: 9 A.M. TO 5 P.M., MONDAYS THROUGH FRIDAYS, EXCEPT LEGAL HOLIDAYS, UNLESS AN AFTER-HOURS WORK PERMIT IS SECURED FROM THE DEPARTMENT OF BUILDINGS AND BUILDING OWNER.

Owner and General Contractor shall provide at least 24 hours notice via email of commencement of work. Dust 7. tents and doors as well as negative air filtration will be installed.

CONSTRUCTION OPERATIONS WILL NOT INVOLVE INTERRUPTION OF HEATING, COLD AND HOT WATER OR ELECTRICAL SERVICES TO TENANTS OF THE BUILDING WITHOUT PRIOR APPROVAL BY THE BUILDING OWNER. ANY BUILDING SHUT DOWNS MUST BE COORDINATED AND AUTHORIZED BY BUILDING OWNER.

DISCONTINUATION OF SERVICES: REPAIRS SHALL BE PERFORMED EXPEDITIOUSLY TO MINIMIZE INCONVENIENCE TO 9. OCCUPANTS IN THE BUILDING. IF SERVICE IS TO BE DISCONTINUED FOR A PERIOD LONGER THAN 8 HOURS, TEMPORARY OR ALTERNATE SERVICES SHALL BE PROVIDED UNTIL PERMANENT SERVICE CAN BE RESTORED. ALTERNATE SERVICES INCLUDED BUT ARE NOT LIMITED TO EXTERIOR MOBILE BOILER PLANTS AND GENERATORS. TEMPORARY OR ALTERNATE SERVICES SHALL BE PROVIDED BY CONTRACTOR AS PART OF THIS CONTRACT AT NO ADDITIONAL COST TO BUILDING OWNER.

10. WORK PHASING PLAN: BEFORE COMMENCING CONSTRUCTION, CONTRACTOR SHALL PROVIDE A WORK PHASING PLAN IDENTIFYING WHEN CONSTRUCTION WILL TAKE PLACE IN EACH AREA WHERE WORK IS TO OCCUR. CONTRACTOR SHALL COORDINATE CLEARING THE AREAS OF CARS, STORED MATERIALS, OR OTHER OBSTRUCTIONS, WITH OWNER, OWNER'S REPRESENTATIVE, AND BUILDING MAINTENANCE STAFF.

D.S.H.A. SAFETY NOTES

G.C. MUST ENFORCE OSHA STANDARDS, MAINTAINING SAFE SITE CONDITIONS, PRACTICES & MAINTAINING EQUIPMENT. 2. G.C. TO REMOVE ALL DAMAGED DEMO. BINS, LADDERS, CARTS, BAKERS & SCAFFOLDING. 3. ALL ELECTRIC LIGHTING, EQUIPMENT & TOOLS MUST BE GROUNDED PROPERLY & UNPLUGGED DURING OFF HOURS. 4. ALL TEMP. ELECTRICAL SERVICE FOR CONSTRUCTION TO BE TURNED OFF AT SOURCE AFTER WORKING HOURS. PROVIDE LOCK AT PANEL.

STOS NOTES

ALL CONTRACTORS ARE HEREBY ADVISED THAT ALTHOUGH NONE IS SUSPECTED, IF THEY FIND OR SUSPECT ASBESTOS WITHIN THE CONTRACT AREAS. THE HANDLING OF THIS MATERIAL SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS PUBLISHED IN THE FEDERAL REGISTER BY DSHA, EPA & DTHER FEDERAL AUTHORITIES HAVING JURISDICTION & IN ADDITION, ANY SUPPLEMENTAL LAWS, RULES & AUTHORITIES HAVING JURISDICTION & REGULATIONS PROMULGATED BY STATE & LOCAL AUTHORITIES.

ANY MATERIAL COMPOSITION WHICH IS QUESTIONABLE SHALL BE BROUGHT TO THE ATTENTION OF THE EN∨IRONMENTAL CONSULTANT. THE DETERMINATION OF THE MATERIAL CONTENT SHALL BE AT THE SOLE DISCRETION OF THE CONSULTANT, IF NECESSARY THE CONSULTANT SHALL REQUEST LAB TESTING, THE CONTRACTOR SHALL IMMEDIATELY STOP THE WORK & NOTIFY THE ARCHITECT & THE CLIENT.

EAD NOTES

THE DWNER, GENERAL CONTRACTOR & DEMOLITION SUBCONTRACTOR ARE ADVISED THAT THERE IS THE POSSIBILITY OF LEAD PAINT HAVING BEEN USED IN THE EXISTING CONSTRUCTION. 2. ALL WORK WILL COMPLY WITH APPLICABLE LAWS RELATING TO LEAD PAINT REMOVAL. IF ANY OF THESE MATERIALS ARE DISCOVERED, THE CONTRACTOR SHALL STOP WORK AND NOTIFY THE ARCHITECT IMMEDIATELY,

3. THE DEMOLITION PORTION OF THE WORK MUST BE PERFORMED ACCORDING TO SAFE WORK PRACTICES (OSHA) INCLUDING WORKER PROTECTION, PREVENTION OF SPREAD OF LEAD DUST & NOTIFICATION OF THE PUBLIC & GOVERNMENT AGENCIES & PROPER DISPOSAL OF CONTAMINATED REFUSE. AFTER THE DEMO IS PERFORMED & THE SPACE IS CLEANED IT IS NO LONGER A LEAD ABATEMENT JOB. THE OWNER IS OBLIGED TO COMPLY WITH LOCAL CODES.

<u>plan n</u>dte

"THIS PLAN IS APPROVED ONLY FOR THE WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL DTHER MATTERS SHOWN ARE NOT TO BE RELIED UPDN, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES,"

SCOPE OF WORK IS SOLELY FOR THE INSTALLATION OF THE PROPOSED ROOF DECK, ALL OTHER WORK IS NOT TO BE RELIED UPON AS BEING APPROVED AND/OR PERMITTED BY THE BUILDINGS DEPARTMENT.

ECCCNYS COMPLIANCE TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THIS APPLICATION IS IN COMPLIANCE WITH THE ECCCNYS. <u>NDTES:</u>

1. INSTALLATION TO COMPLY WITH SECTIONS 302.7, 302.8, & 302.9 OF THE OF THE EXISTING BUILDING CODE OF THE STATE OF NEW YORK 2. VENTILATION FOR THE BOILER/BURNER TO COMPLY WITH THE REQUIREMENTS OF CHAPTER 4, 7, 10, AND 13 OF THE MECHANICAL CODE OF NEW YORK STATE 3. BOILER INSTALLATION WILL BE ACCORDANCE WITH ASME BOILER AND PRESSURE VESSEL CODE 4. GAS PIPING TO COMPLY WITH THE FUEL GAS CODE FGC 401,402, 403, 404, 406, 407, 408, 409, & 410.



NOTES:

AGENT AND DESIGN.

MINIMUM PIPE FLUID OPERATING TEMP RANGE AND USAGE > 350 251 - 350 201 - 250 141 - 200 105 - 140 40 - 60 > 40 t = r((1 + t/r)K/k - 1)where

r = Actual 1 outside radius of pipe,

C 403.81 PROTECTION OF PIPING INSULATION.



- 1) BOILER FINAL ACCEPTANCE TESTING REQUIREMENTS / DOCUMENTATION AS REQUIRED PER NYS DEPARTMENT OF LABOR UNDER SECTION 204 OF LABOR LAW AND 2020 NYSMC 1011.1
- 2) BACKFLOW PREVENTION DEVICES SHALL BE ACCEPTANCE TESTED BY A NYS DEPARTMENT OF HEALTH APPROVED TESTING AGENT. RESULTS MUST BE RECORDED ON THE DOH FORM SIGNED BY THE TESTING
- 3) CO DETECTION REQUIRED WHERE FOSSIL FUEL IS USED FOR COMBUSTION SUCH AS BOILERS, PER 2020 NYSFC SECTION 915.
- 4) THE REQUIRED BOILER EMERGENCY SHUTDOWN SWITCH IN ACCORDANCE WITH 2020 NYSMC 1006.8. AND ASME 2016 CSD-1 1004.1
- 5) BOILER BLOWDOWNS FOR MAINTENANCE AND PRESSURE RELIEF VALVES ARE REQUIRED TO BE PIPED TO DRAINS, AS PER 2020 NYSMC 1004.6
- 6) PIPE INSULATION SHALL COMPLY WITH THE 2020 NYSMC 1204.1 AND ECCCNYS C403.11.3 CONDITIONS OF PERMIT

TABLE C403.2.8
INSULATION THICKNESS(thinkness in inches)

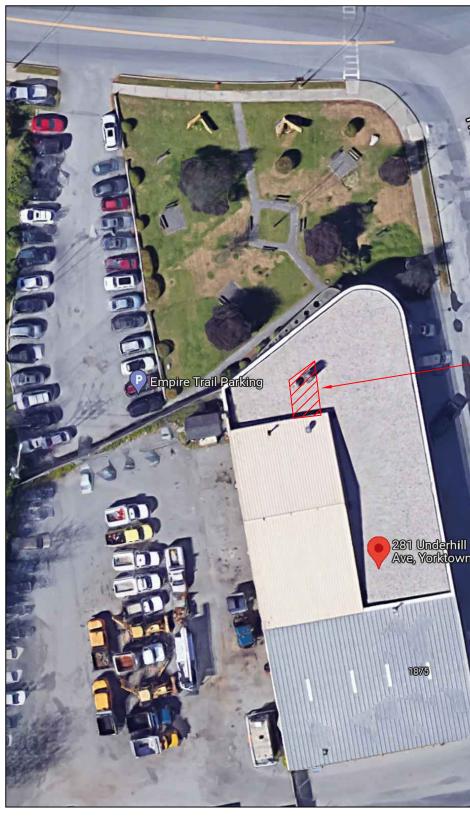
IPERATURE (*F)		NOMINAL PIPE OR TUBE SIZE (inches)					
	Conductivity Btu * in./(h * f	Mean Rating t * Temperature,	•F <1	1 to < 1 1/2	1 1/2 to 4	<4 to < 8	< 8 -
	0.32 - 0.34	250	4.5	5.0	5.0	5.0	5.0
	0.29 - 0.32	200	3.0	4.0	4.5	4.5	4.5
	0.27 - 0.30	150	2.5	2.5	2.5	3.0	3.0
	0.25 - 0.29	125	1.5	1.5	2.0	2.0	2.0
	0.21 - 0.28	100	1.0	1.0	1.5	1.5	1.5
	0.20 - 0.26	75	0.5	0.5	1.0	1.0	1.0
	0.20 - 0.26	75	0.5	1.0	1.0	1.0	1.5

a. for piping smaller than 1 1/2 inch (28mm) and located in partitions within conditioned spaces, reduction of these thickness by 1 inch (25mm) shall be permitted (before thickness adjustment required infootnote b)but not to a thickness less than 1 inch (25mm). b. For insulation outside the stated conductivity range, the minimum thickness (1)shall be determined as folloes"

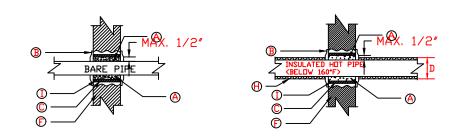
t = Insulation thickness listed in the table for applicable fluid temperature and pipe size, K = Conductivity of alternate material at mean rating temperature indicated for the applicable fluid temperature (Btu ×in/h ×ft2 ×°F) and k = The upper value of the conductivity range listed in the table for the applicable fluid temperature.

c. For direct heating and hot water system piping, reduction of these thicknesses by 1-1/2 inches (38 mm) shall be permitted (before thickness adjustment required in footnote b but not to thicknesses less than 1 inch (25 mm).

Piping insulation exposed to weather shall be protected from damage, including that due to sunlight, moisture, equipment maintenance and wind, and shall provide shielding from solar radiation that can cause degradation of the material Adhesives tap shall not be permitted.



AERIAL IMAGE



- ᢙ ALL SPECES PACKED FULL DEPTH WITH MINERAL DR DTHER EQUALLY APPRDVED FIRE RESISTIVE MATERIAL ASBESTORS OR FIBERGLASS SHALL NOT BE FIRE RESISTANT FOAM SEAL ANT CHASE FOAM CTC P2-855
- (NYC MEA#58-79 M#1&11 MAY BE USED. INSTALLATION AS PER MANUFACTURER.
- B ESCUTCHEON BOTH SIDES SLEEVE
- DIAMETER OF INSULATED PIPE ANHYDROUS CALCIUM SILICATE INSULATION THRU SLEEVE) FIRE RATED PARTITION WALL OR FLOOR
- FIBERGLASS INSULATION
- TERMINATE INSULATION AT ESCUTCHEON ① 1/2" DEPTH FIRE STOP FINISH SEALANT <SEE H∨AC SPEC>

FIRESTOP DETAIL

WALLS & CEILINGS TO BE REPAIRED OR FIRE STOPPED TO MATCH REQUIRED RATINGS OF BOILER ROOM. AGENCY HAVING JURISDICTION (AHJ) SHALL INSPECT ALL FIRESTOPPING PRIOR TO FINAL SIGN-OFF.

	BOILER MAKE/MODEL	RATED INPUT(BTUH)	RATED DUTPUT(BTUH)	EFFICIENCY
EXISTING	SLANT/FIN GG-399HEC	399,000	327,000	81%
PROPOSED	VIESSMAN VITODENS 200-W	352,000	332,640	94.5%

PAGE	SHEET	DESCRIPTION
1	EN-001.00	INDEX, LOT DIAG
2	EN-002.00	EQUIPMENT DETA
3	EN-003.00	EQUIPMENT DETA
4	DM-001.00	DEMOLITION PLAN
5	M-001.00	NEW EQUIPMENT
6	M-002.00	NEW EQUIPMENT
7	P-001.00	PLUMBING DETAIL

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<u>WARNING</u> - IT IS A VIOLATION OF					
STATE EDUCATION LAW FOR ANY REASON, UNLESS HE IS ACTING UNDER THE DIRECTION OF LICENSED PROFESSIONAL ENGINEER, TO					
ALTER ANY ITEM IN ANY WAY ON THESE PLANS.					





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	Size			285	311	352	399	530
	Rated Input*	MBH		71-285	71-311	71-352	113-399	113-530
	Efficiency	% AFUE		92%				
(9	Thermal E	fficiency**			94.5%	94.5%	93.9%	93.5%
	Dimension							
	Width	in.		19	19	19	23.63	23.63
	Height	in.		43.5	43.5	43.5	44.5	44.5
	Depth	in.		21	21	21	27.1	27.1
	Weight	lbs		194	194	194	298	298
			_					
Boiler water con	tent	USG L		3.4 (12.8)	3.4 (12.8)	3.4 (12.8)	4 (15)	4 (15)
Boiler max. flow	rate	GPM L/h		25 (5700)	25 (5700)	25 (5700)	38 (8600)	38 (8600
/lax. operating p max. allowable w t 210°F (99°C)	p ressure vorking pressure)	psig bar		60 (4)	60 (4)	60 (4)	80 (5.5)	80 (5.5)
Adjustable high I space heating (st DHW productio Fixed high limit	imit (AHL) range teady state) n (set-point)	°F ℃ °F(°C) °F(°C)		68 to 185 (20 to 85) 185 (85) 210 (99)				
Boiler connectio Boiler heating sup Pressure relief va Drain valve	oply and return lve	NPTM" NPTF" (male thread)		1 ^{1/2} 3/4 3/4	1 ^{1/2} 3⁄4 3⁄4	1 ^{1/2} 34 34	2 3⁄4 3⁄4	3
Boiler supply/retu indirect-fired DHV (field supplied) Gas valve connec	V storage tank	NPT"		11/2	11/2	11/2	2	
		NPTF"		1	1	1	1	

Vitodens 200-W gas-fired wall-mounted condensing boiler Multi-boiler installation - 71 to 4240 MBH for models 285 to 530

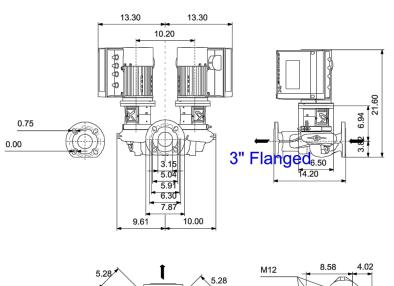
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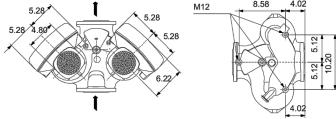
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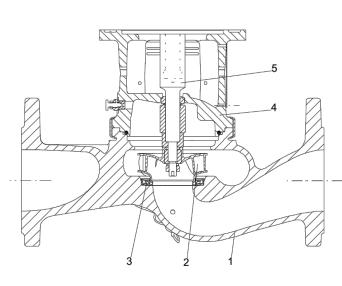
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PROVED BY:	DATE:
DER NO.:	DATE:

Technical information subject to change without notice. 9441 034 - 06 / 2021 Printed in Canada

Technical Data







Materials: Pump housing: Cast iron Pump housing: ASTM class 35 Impeller: Composite Material code: A

Submittal Data

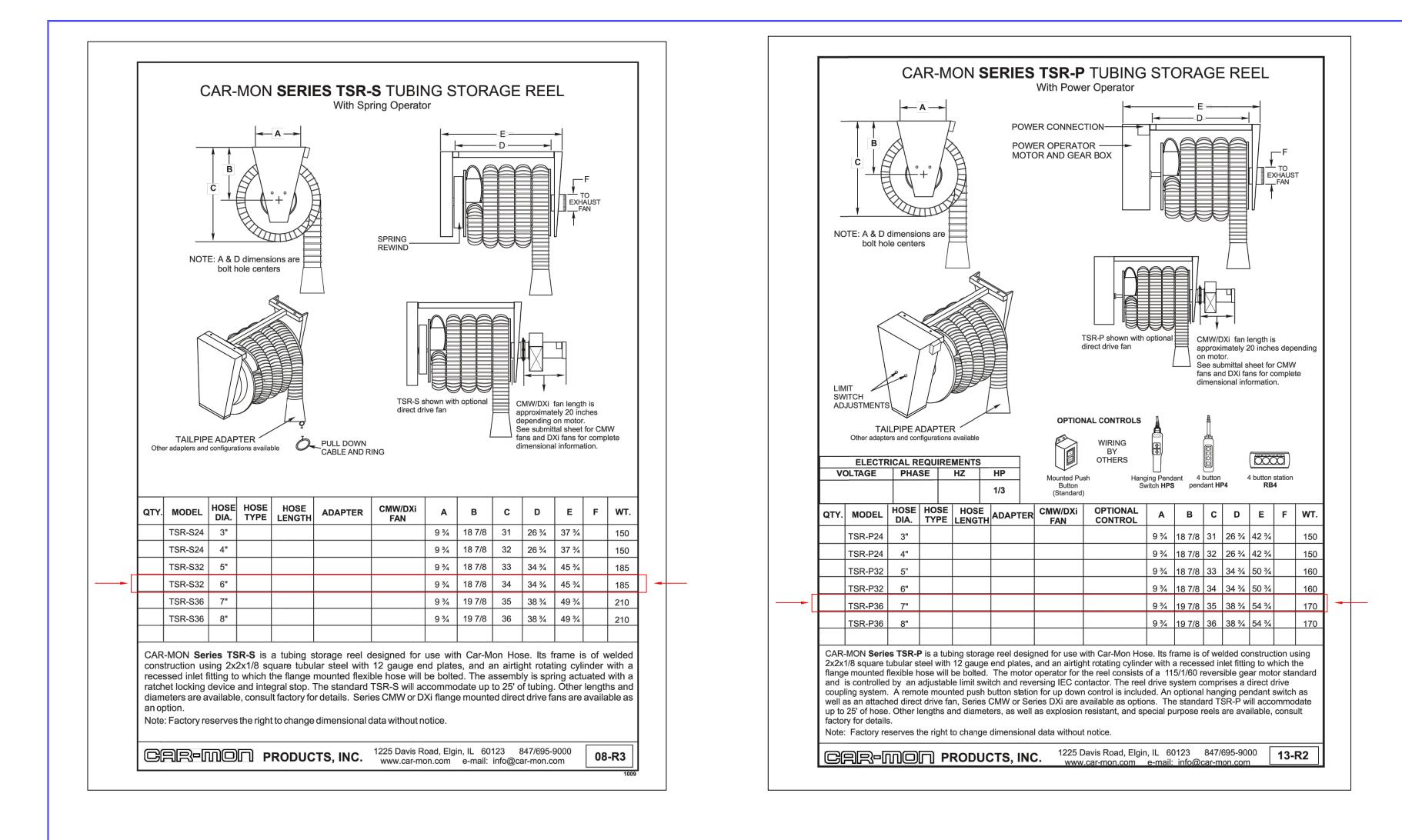
Viessmann Manufacturing Company Inc. Waterloo, ON Canada 1-800-387-7373 www.viessmann.ca

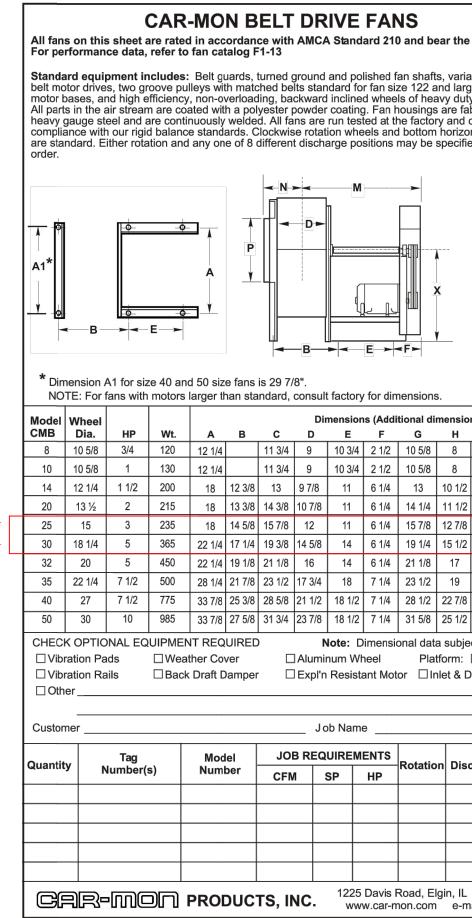
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DESCRIPTION: REPLACE (5) EXISTING LOW PRESSURE WATER BDILERS WITH (4) NEW LOW PRESSURE WATER BDILERS. REPLACE ANCILLARY EQUIPMENT ASSOCIATED WITH BDILERS. REPLACE NEW VENTILATION EQUIPMENT FOR GARAGE SPACE.	ND CHANGE IN MEANS DF EGRESS, USE GRDUP, DR DCCUPANCY.
PRDJECT LDCATION: YORKTOWN HIGHWAY GARAGE 281 UNDERHILL AVE YORKTOWN HEIGHTS, NY 10598	TOWN OF YORKTOWN 363 UNDERHILL AVE Yorktown Heights, NY 10598
REVANS DES 60 SOMER YORKTOWN, 914-22	SIGN, PE PC STON RD NY 10598
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<u>WARNING</u> - IT IS A VIOLATION OF STATE EDUCATION LAW FOR ANY REASON,

UNLESS HE IS ACTING UNDER THE DIRECTION OF LICENSED PROFESSIONAL ENGINEER, TO ALTER ANY ITEM IN ANY WAY ON THESE PLANS.

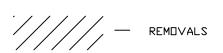


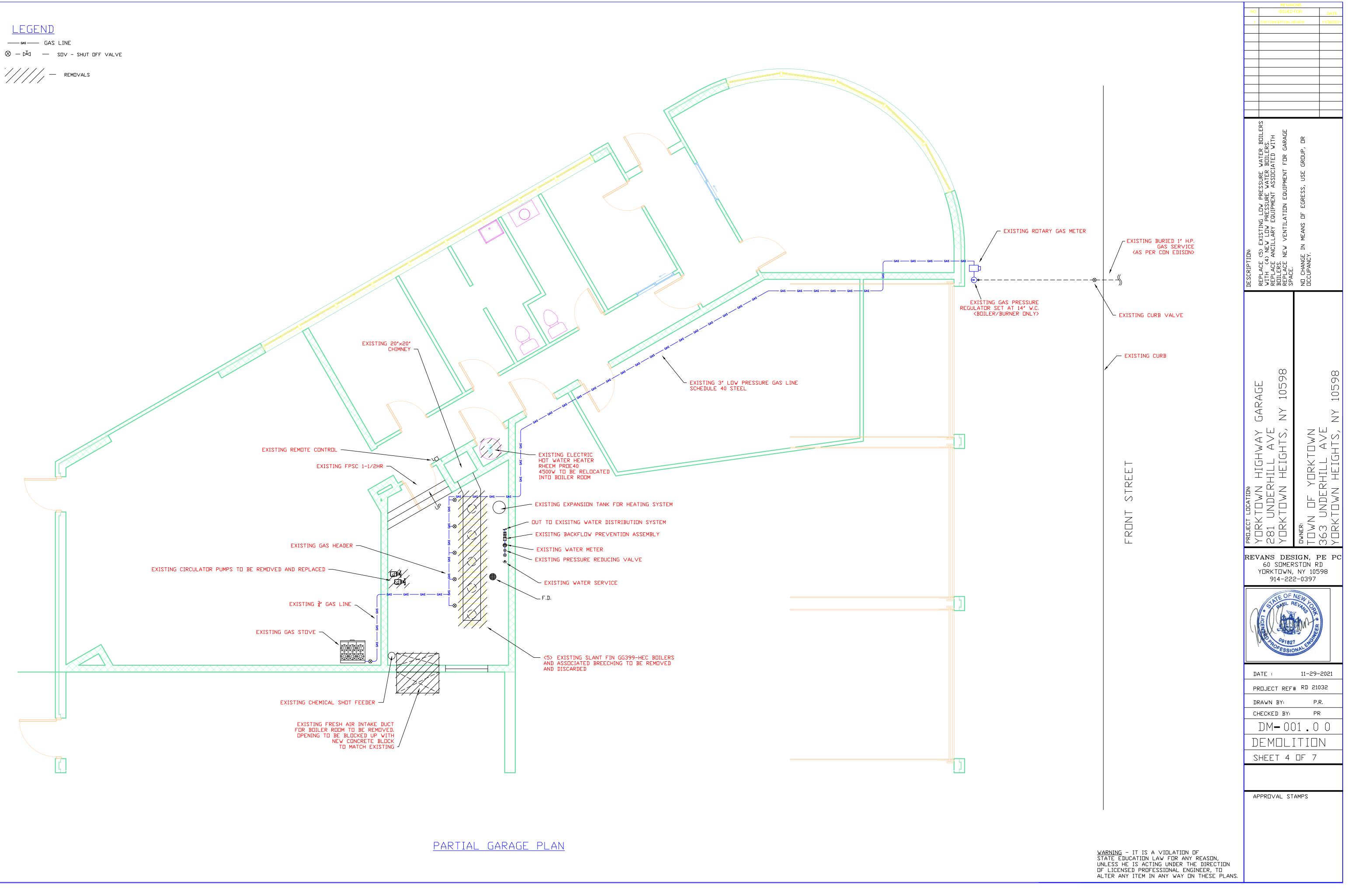


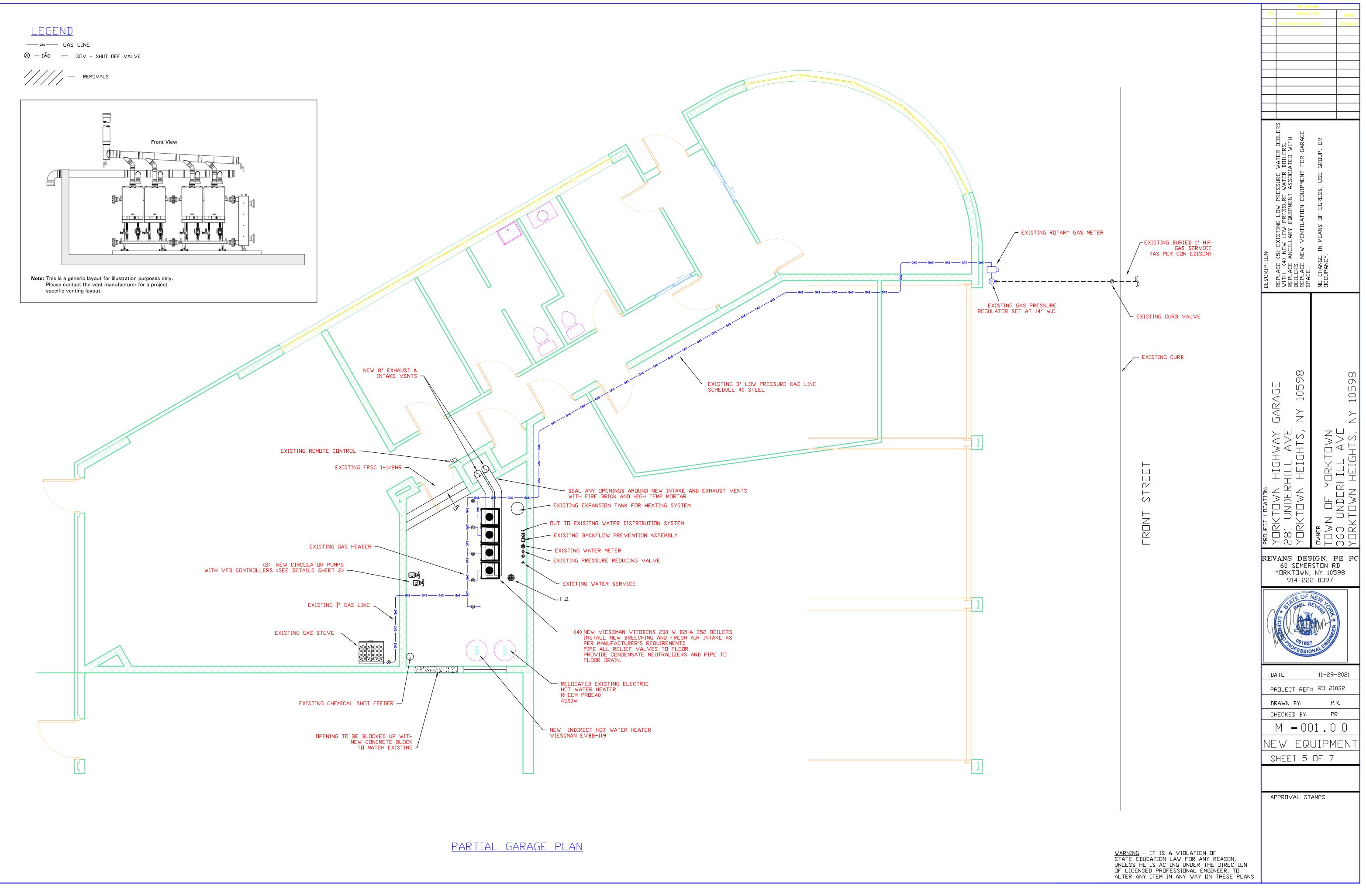
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the AMCA seal. ariable pitch V- arger, adjustable buty construction. Ind checked for izontal discharge cified at time of Cer-Mon Products, Inc. certifies that the centrifugal fans shown herein are licensed to bear the AMCA seal. The ratings shown are based on tests made in accordance with AMCA Standard 210 and comply with the requirements of the AMCA Certified Ratings Program.						
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1/2	18	15 1/8	29 3/8	9 1/2	18 1/2	23
7	19 3/4	16 5/8	30	11 1/4	21	23
9	22	18 1/2	36 7/8	12 1/8	24	31
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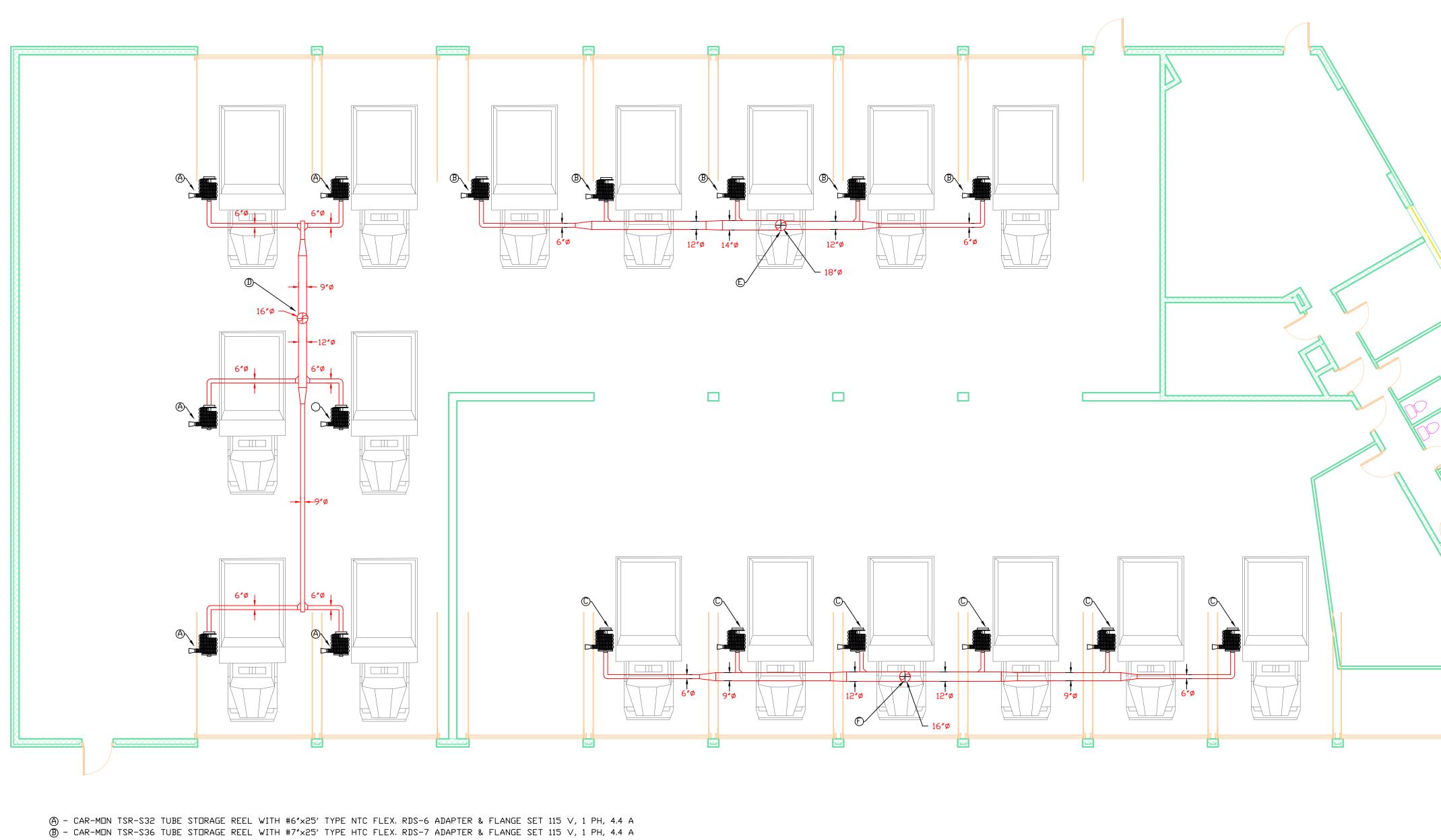




<u>legend</u>

 \longrightarrow GAS LINE \bigotimes — \bowtie GAS LINE \bigotimes — \bowtie SOV - SHUT DFF VALVE

. _____ REMOVALS



(B) - CAR-MON TSR-S36 TUBE STORAGE REEL WITH #7"×25' TYPE HTC FLEX. RDS-7 ADAPTER & FLANGE SET 115 ∨, 1 PH, 4.4 A
(C) - CAR-MON TSR-S32 TUBE STORAGE REEL WITH #6"×25' TYPE NTC FLEX. RDS-6 ADAPTER & FLANGE SET 115 ∨, 1 PH, 4.4 A
(D) - CAR-MON CMB-25 EXHAUST FAN 3,000 CFM @ 4.5 S.P., 5HP 208/230 ∨, 3 PH, 13 A

€ - CAR-M⊡N CMB-30 EXHAUST FAN 4,000 CFM @ 5.5 S.P., 5HP 208/230 V, 3 PH, 19 A
€ - CAR-M⊡N CMB-25 EXHAUST FAN 3,000 CFM @ 4.5 S.P., 5HP 208/230 V, 3 PH, 13 A

NDTES: 1. CLEANDUTS IN EXHAUST DUCT NDT TO EXCEED 15' MAX INTERVALS 2. FINAL LOCATION OF EACH STORAGE REEL TO BE COORDINATED WITH THE HIGHWAY SUPERINTENDENT.

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	DESCRIPTION	REPLACE (5) EXISTING LOW PRESSURE WATER BDILERS WITH (4) NEW LOW PRESSURE WATER BDILERS. REPLACE ANCILLARY EQUIPMENT ASSOCIATED WITH BDILERS. REPLACE NEW VENTILATION EQUIPMENT FOR GARAGE SPACE.	ND CHANGE IN MEANS DF EGRESS, USE GROUP, DR DCCUPANCY.	
		YORKTOWN HIGHWAY GARAGE 281 UNDERHILL AVE YORKTOWN HEIGHTS, NY 10598		
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<u>WARNING</u> – IT IS A VIOLATION OF STATE EDUCATION LAW FOR ANY REASON, UNLESS HE IS ACTING UNDER THE DIRECTION OF LICENSED PROFESSIONAL ENGINEER, TO ALTER ANY ITEM IN ANY WAY ON THESE PLANS.		APPROVAL SI	AMPS	

<u>legend</u>

- SPRING CHECK ↓ ● 1/4 TURN BALL VALVE

①- TEMPERATURE GAGE

 \heartsuit pressure gage

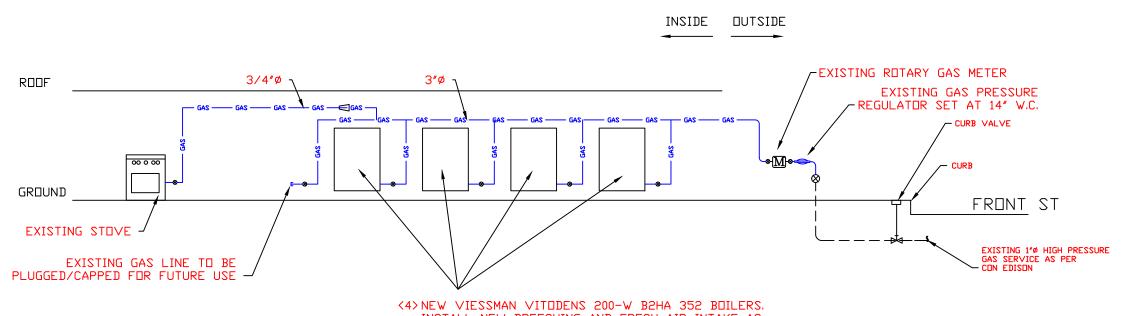
----- EXPANSION TANK

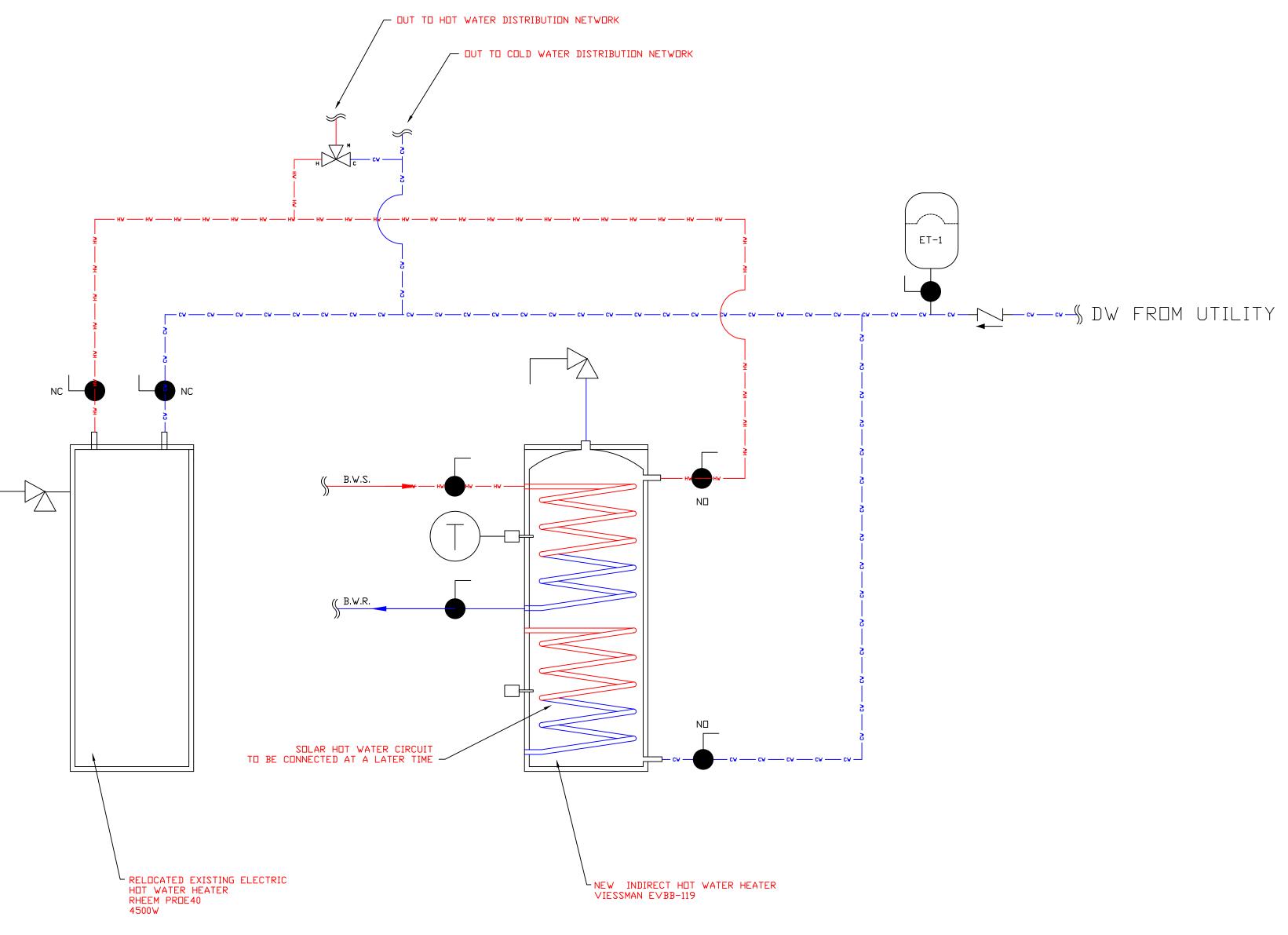
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C 3 WAY TEMPERING VALVE

RELIEF VALVE

cv	COLI) WATER
— ну —	ΗΟΤ	WATER
GAS	GAS	PIPING

ND - NORMALLY OPENED NC - NORMALLY CLOSED





<4>NEW VIESSMAN VITODENS 200-W B2HA 352 BOILERS. INSTALL NEW BREECHING AND FRESH AIR INTAKE AS PER MANUFACTURER'S REQUIREMENTS

<u>GAS RISER DIAGRAM</u>

<u>Domestic water piping schematic</u>

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	DESCRIPTI	REPLACE (5) EXISTING LOW PRESSURE WATER BDILERS WITH (4) NEW LOW PRESSURE WATER BDILERS. REPLACE ANCILLARY EQUIPMENT ASSOCIATED WITH	BDILERS. REPLACE 1 SPACE.	ND CHANGE IN MEANS DF EGRESS, USE GROUP, DR DCCUPANCY.		
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