Environmental Assessment Statement and Supplemental Report

for

51 White Street Special Permit 51 White Street New York, NY

Prepared by:

Compliance Solutions Services, LLC 175 West 60th Street New York, NY 10023

August 2018

EAS FORM



City Environmental Quality Review ENVIRONMENTAL ASSESSMENT STATEMENT (EAS) FULL FORM Please fill out and submit to the appropriate and submit to the appropr

Part I: GENERAL INFORMAT	ION		et are appropriate agency (<u>,</u>			
		mit					
PROJECT NAME 51 White Street Special Permit 1. Reference Numbers							
CEQR REFERENCE NUMBER (to be	assigned by lead age	ancy)	BSA REFERENCE NUMBER (if appli	cable)			
18DCP092M	assigned by lead age	incy)	BOX NET ENERGE NOWBER (II appli	casicy			
ULURP REFERENCE NUMBER (if ap	nlicable)		OTHER REFERENCE NUMBER(S) (if	applicable)			
180439ZSM	,		(e.g., legislative intro, CAPA) Pro				
2a. Lead Agency Informatio	n		2b. Applicant Information				
NAME OF LEAD AGENCY			NAME OF APPLICANT				
NYC Department of City Plan	nning		51 White Street LLC				
NAME OF LEAD AGENCY CONTACT	PERSON		NAME OF APPLICANT'S REPRESEN	TATIVE OR CONTACT PERSON			
Robert Dobruskin			John J. Strauss, Compliance	Solutions Services, LLC			
ADDRESS 120 Broadway, 31s	t floor		ADDRESS 348 West 57 th Stre	et, # 214			
CITY New York	STATE NY	ZIP 10271	CITY New York	STATE NY ZIP 10019			
TELEPHONE 212-720-3423	EMAIL		TELEPHONE 212-741-3432	EMAIL jstrauss.css@gmail.com			
	rdobrus@planr	ning.nyc.gov					
3. Action Classification and	Туре						
SEQRA Classification							
UNLISTED TYPE I: Spe	ecify Category (see 6	NYCRR 617.4 and N	NYC Executive Order 91 of 1977, as a	amended): 617.4(b)(9)			
Action Type (refer to Chapter 2	, "Establishing the Ar	nalysis Framework"	for guidance)				
LOCALIZED ACTION, SITE SPEC	CIFIC	LOCALIZED ACTION	N, SMALL AREA GEN	NERIC ACTION			
4. Project Description							
The Applicant, 51 White Stre	eet LLC, is seeking	g a City Planning	Commission (CPC) Special Po	ermit pursuant to Zoning			
Resolution (ZR) Section 74-7	11 ("Landmarks	preservation in	all districts") for a property lo	ocated at 51-53 White Street in			
Manhattan Community Dist	rict 1 to waive th	e height limitati	ons of ZR Section 23-692 ("H	eight limitations for narrow			
buildings or enlargements"),	, the front setbac	ck requirements	of ZR Section 23-662 ("Maxir	num height of buildings and			
setback regulations"), the re	quired 30-foot d	istance betweer	n legally required windows ar	nd the rear lot line of ZR Section			
	•		mensions of the rear inner co				
				by the Applicant to construct a			
-			ry building at 51-53 White Sti				
York, NY (the "Project Site").	_	•	,	, , ,			
Project Location							
BOROUGH Manhattan	COMMUNITY DIS	STRICT(S) 1	STREET ADDRESS 51-53 White	Street			
TAX BLOCK(S) AND LOT(S) Block	175, Lot 24		ZIP CODE 10013				
DESCRIPTION OF PROPERTY BY BO	·	STREETS Between					
EXISTING ZONING DISTRICT, INCLU			·	NG SECTIONAL MAP NUMBER 12a			
5. Required Actions or Appr	<i>ovals</i> (check all tha	t apply)	,				
City Planning Commission:		NO	UNIFORM LAND USE REVIEW	/ PROCEDURE (ULURP)			
CITY MAP AMENDMENT		ZONING CERTIFICA		NCESSION			
ZONING MAP AMENDMENT	H	ZONING AUTHORIZ	=	AAP			
ZONING TEXT AMENDMENT	H	ACQUISITION—REA	=	OCABLE CONSENT			
SITE SELECTION—PUBLIC FAC	шту 📙	DISPOSITION—REA	=	NCHISE			
HOUSING PLAN & PROJECT		OTHER, explain:	LT NOT ENT	Weinst			
SPECIAL PERMIT (if appropriate, specify type: modification; renewal; other); EXPIRATION DATE:							
SPECIFY AFFECTED SECTIONS OF THE ZONING RESOLUTION 23-692, 23-662, 23-861, 23-851, 74-711							
Board of Standards and Appeals: YES NO							
VARIANCE (use)	. L.J	<u> </u>					
VARIANCE (bulk)							
VIIIII II VEL (DUIK)							

SPECIAL PERMIT (if appropriate, specify type: modification; renewal; other); EXPIRATION DATE:
SPECIFY AFFECTED SECTIONS OF THE ZONING RESOLUTION
Department of Environmental Protection: ☐ YES ☐ NO If "yes," specify:
Other City Approvals Subject to CEQR (check all that apply)
LEGISLATION FUNDING OF CONSTRUCTION, specify:
RULEMAKING POLICY OR PLAN, specify:
CONSTRUCTION OF PUBLIC FACILITIES FUNDING OF PROGRAMS, specify:
384(b)(4) APPROVAL PERMITS, specify:
OTHER, explain:
Other City Approvals Not Subject to CEQR (check all that apply)
PERMITS FROM DOT'S OFFICE OF CONSTRUCTION MITIGATION APPROVAL
AND COORDINATION (OCMC) OTHER, explain: Dept. of Buildings building permit
State or Federal Actions/Approvals/Funding: YES NO If "yes," specify:
6. Site Description: The directly affected area consists of the project site and the area subject to any change in regulatory controls. Except
where otherwise indicated, provide the following information with regard to the directly affected area.
Graphics: The following graphics must be attached and each box must be checked off before the EAS is complete. Each map must clearly depict
the boundaries of the directly affected area or areas and indicate a 400-foot radius drawn from the outer boundaries of the project site. Maps may
not exceed 11 x 17 inches in size and, for paper filings, must be folded to 8.5 x 11 inches.
SITE LOCATION MAP ZONING MAP SANBORN OR OTHER LAND USE MAP
TAX MAP FOR LARGE AREAS OR MULTIPLE SITES, A GIS SHAPE FILE THAT DEFINES THE PROJECT SITE(S)
PHOTOGRAPHS OF THE PROJECT SITE TAKEN WITHIN 6 MONTHS OF EAS SUBMISSION AND KEYED TO THE SITE LOCATION MAP
Physical Setting (both developed and undeveloped areas)
Total directly affected area (sq. ft.): 3,900 Waterbody area (sq. ft.) and type: 0
Roads, buildings, and other paved surfaces (sq. ft.): 3,900 Other, describe (sq. ft.): 0
7. Physical Dimensions and Scale of Project (if the project affects multiple sites, provide the total development facilitated by the action)
SIZE OF PROJECT TO BE DEVELOPED (gross square feet): 5,025 gsf enlargement
NUMBER OF BUILDINGS: 1 GROSS FLOOR AREA OF EACH BUILDING (sq. ft.): 31,905
HEIGHT OF EACH BUILDING (ft.): 100'-8" NUMBER OF STORIES OF EACH BUILDING: 7 + cellar & sub-cellar
Does the proposed project involve changes in zoning on one or more sites? YES NO
If "yes," specify: The total square feet owned or controlled by the applicant:
The total square feet not owned or controlled by the applicant:
Does the proposed project involve in-ground excavation or subsurface disturbance, including, but not limited to foundation work, pilings, utility
lines, or grading? XES NO
If "yes," indicate the estimated area and volume dimensions of subsurface disturbance (if known):
AREA OF TEMPORARY DISTURBANCE: sq. ft. (width x length) VOLUME OF DISTURBANCE: 50 cubic ft. (width x length x depth)
AREA OF PERMANENT DISTURBANCE: 10 sq. ft. (width x length)
8. Analysis Year CEQR Technical Manual Chapter 2
ANTICIPATED BUILD YEAR (date the project would be completed and operational): 2020
ANTICIPATED PERIOD OF CONSTRUCTION IN MONTHS: 8
WOULD THE PROJECT BE IMPLEMENTED IN A SINGLE PHASE? YES NO IF MULTIPLE PHASES, HOW MANY?
BRIEFLY DESCRIBE PHASES AND CONSTRUCTION SCHEDULE:
9. Predominant Land Use in the Vicinity of the Project (check all that apply)
RESIDENTIAL MANUFACTURING COMMERCIAL PARK/FOREST/OPEN SPACE OTHER, specify:

DESCRIPTION OF EXISTING AND PROPOSED CONDITIONS

The information requested in this table applies to the directly affected area. The directly affected area consists of the project site and the area subject to any change in regulatory control. The increment is the difference between the No-Action and the With-Action conditions.

	EXISTING		NO-ACTION				WITH-ACTION				INICDEMENT		
	CONDITION			CONDITION				CONDITION				INCREMENT	
LAND USE													
Residential	YE	s 🔀	NO		YES	П	NO	X	YES		NO		
If "yes," specify the following:		*											
Describe type of residential structures				mult	i-family	dwelling	25 1	mul	ti-family	dwell	ings		
No. of dwelling units				4	,		-	6	,			+2	
No. of low- to moderate-income units				0			(0					
Gross floor area (sq. ft.)				13,20	60		2	20,7	790			+7,530	
Commercial	YE	s 🔀	NO	\boxtimes	YES	N	10	\times	YES		NO		
If "yes," specify the following:													
Describe type (retail, office, other)				office	e		,	offic	ce				
Gross floor area (sq. ft.)				13,62	21		:	11,1	L15			-2,506	
Manufacturing/Industrial	YE	s 🔀	NO		YES	×	10		YES	\boxtimes	NO		
If "yes," specify the following:		<u>*</u>											
Type of use													
Gross floor area (sq. ft.)													
Open storage area (sq. ft.)													
If any unenclosed activities, specify:													
Community Facility	YE	s 🔀	NO		YES	×	NO		YES	\boxtimes	NO		
If "yes," specify the following:													
Туре													
Gross floor area (sq. ft.)													
Vacant Land	YE	s 🔀	NO		YES	×	10		YES	\boxtimes	NO		
If "yes," describe:							ľ						
Publicly Accessible Open Space	YE	s 🔀	NO		YES	×	10		YES	\boxtimes	NO		
If "yes," specify type (mapped City, State, or	r												
Federal parkland, wetland—mapped or													
otherwise known, other):	<u> </u>												
Other Land Uses	XE YE	s	NO	Ш	YES	<u> </u>	NO		YES		NO		
If "yes," describe:		5-story 24,	375 gs1	f									
	building	5											
PARKING													
Garages	YE	s 🔀	NO		YES	✓ I	NO		YES	\boxtimes	NO		
If "yes," specify the following:													
No. of public spaces													
No. of accessory spaces													
Operating hours													
Attended or non-attended	<u> </u>			<u> </u>									
Lots	YE	s 🔀	NO		YES	<u> </u>	NO		YES	\boxtimes	NO		
If "yes," specify the following:													
No. of public spaces													
No. of accessory spaces													
Operating hours	<u> </u>			<u> </u>									
Other (includes street parking)	YE	s 🔀	NO		YES	✓ I	NO		YES	\boxtimes	NO		
If "yes," describe:													
POPULATION													
Residents	YE	s 🛚	NO		YES		10	\times	YES		NO		
If "yes," specify number:				8				12				+ 4	
Briefly explain how the number of residents	Based c	n average	housel	nold si	ze of 2.0	08 perso	ns in	cen	sus tract	33 (20	010 Ce	nsus)	

EAS FULL FORM PAGE 4

	EXISTING	NO-ACTION	WITH-ACTION	
	CONDITION	CONDITION	CONDITION	INCREMENT
was calculated:				
Businesses	YES NO	YES NO	YES NO	
If "yes," specify the following:				
No. and type		offices	offices	
No. and type of workers by business		54 office workers	44 office workers	-10 office workers
No. and type of non-residents who are not workers		20 daily visitors (vendors, customers)	16 daily visitors (vendors, customers)	-4 daily visitors (vendors, customers)
Briefly explain how the number of businesses was calculated:	Office workers calculated	at 4 workers per 1,000 gs	f of office space	
Other (students, visitors, concert-goers, etc.)	YES NO	YES NO	YES NO	
If any, specify type and number:				
Briefly explain how the number was calculated:				
ZONING				
Zoning classification	C6-2A	C6-2A	C6-2A	
Maximum amount of floor area that can be	23,478 zsf residential	23,478 zsf residential	23,478 zsf residential	
developed	(FAR 6.02), 23,400 zsf commercial (FAR 6.0), or	(FAR 6.02), 23,400 zsf commercial (FAR 6.0), or	(FAR 6.02), 23,400 zsf commercial (FAR 6.0), or	
	25,350 zsf comm facil (FAR 6.5)	25,350 zsf comm facil (FAR 6.5)	25,350 zsf comm facil (FAR 6.5)	
Predominant land use and zoning	Residential, commercial,	Residential, commercial,	Residential, commercial,	
classifications within land use study area(s)	comm facility; C6-2A,	comm facility; C6-2A,	comm facility; C6-2A,	
or a 400 ft. radius of proposed project	C6-4, C6-4A, M1-5, TMU		C6-4, C6-4A, M1-5, TMU	
Attach any additional information that may	be needed to describe the	project.		

If your project involves changes that affect one or more sites not associated with a specific development, it is generally appropriate to include total development projections in the above table and attach separate tables outlining the reasonable development scenarios for each site.

Part II: TECHNICAL ANALYSIS

INSTRUCTIONS: For each of the analysis categories listed in this section, assess the proposed project's impacts based on the thresholds and criteria presented in the CEQR Technical Manual. Check each box that applies.

- If the proposed project can be demonstrated not to meet or exceed the threshold, check the "no" box.
- If the proposed project will meet or exceed the threshold, or if this cannot be determined, check the "yes" box.
- For each "yes" response, provide additional analyses (and, if needed, attach supporting information) based on guidance in the CEQR Technical Manual to determine whether the potential for significant impacts exists. Please note that a "yes" answer does not mean that an EIS must be prepared—it means that more information may be required for the lead agency to make a determination of significance.
- The lead agency, upon reviewing Part II, may require an applicant to provide additional information to support the Full EAS Form. For example, if a question is answered "no," an agency may request a short explanation for this response.

	YES	NO
1. LAND USE, ZONING, AND PUBLIC POLICY: CEQR Technical Manual Chapter 4		
(a) Would the proposed project result in a change in land use different from surrounding land uses?		
(b) Would the proposed project result in a change in zoning different from surrounding zoning?		\boxtimes
(c) Is there the potential to affect an applicable public policy?		\boxtimes
(d) If "yes," to (a), (b), and/or (c), complete a preliminary assessment and attach.		
(e) Is the project a large, publicly sponsored project?		\boxtimes
If "yes," complete a PlaNYC assessment and attach.		
(f) Is any part of the directly affected area within the City's Waterfront Revitalization Program boundaries?		\boxtimes
o If "yes," complete the <u>Consistency Assessment Form</u> .		
2. SOCIOECONOMIC CONDITIONS: CEQR Technical Manual Chapter 5		
(a) Would the proposed project:		
 Generate a net increase of more than 200 residential units or 200,000 square feet of commercial space? 		\boxtimes
If "yes," answer both questions 2(b)(ii) and 2(b)(iv) below.		
Directly displace 500 or more residents?		\boxtimes
■ If "yes," answer questions 2(b)(i), 2(b)(ii), and 2(b)(iv) below.		
Directly displace more than 100 employees?		\boxtimes
■ If "yes," answer questions under 2(b)(iii) and 2(b)(iv) below.		
Affect conditions in a specific industry?		\boxtimes
■ If "yes," answer question 2(b)(v) below.		
(b) If "yes" to any of the above, attach supporting information to answer the relevant questions below. If "no" was checked for each category above, the remaining questions in this technical area do not need to be answered.		
i. Direct Residential Displacement		
 If more than 500 residents would be displaced, would these residents represent more than 5% of the primary study area population? 		
 If "yes," is the average income of the directly displaced population markedly lower than the average income of the rest of the study area population? 		
ii. Indirect Residential Displacement		
 Would expected average incomes of the new population exceed the average incomes of study area populations? 		
o If "yes:"		
Would the population of the primary study area increase by more than 10 percent?		
• Would the population of the primary study area increase by more than 5 percent in an area where there is the potential to accelerate trends toward increasing rents?		
 If "yes" to either of the preceding questions, would more than 5 percent of all housing units be renter-occupied and unprotected? 		
iii. Direct Business Displacement		
 Do any of the displaced businesses provide goods or services that otherwise would not be found within the trade area, either under existing conditions or in the future with the proposed project? 		
o Is any category of business to be displaced the subject of other regulations or publicly adopted plans to preserve,		

	YES	NO
enhance, or otherwise protect it?		
iv. Indirect Business Displacement		
Would the project potentially introduce trends that make it difficult for businesses to remain in the area?		
 Would the project capture retail sales in a particular category of goods to the extent that the market for such goods would become saturated, potentially resulting in vacancies and disinvestment on neighborhood commercial streets? 		
v. Effects on Industry		
 Would the project significantly affect business conditions in any industry or any category of businesses within or outside the study area? 		
 Would the project indirectly substantially reduce employment or impair the economic viability in the industry or category of businesses? 		
3. COMMUNITY FACILITIES: CEQR Technical Manual Chapter 6		
(a) Direct Effects		
 Would the project directly eliminate, displace, or alter public or publicly funded community facilities such as educational facilities, libraries, health care facilities, day care centers, police stations, or fire stations? 		
(b) Indirect Effects		
i. Child Care Centers		
 Would the project result in 20 or more eligible children under age 6, based on the number of low or low/moderate income residential units? (See Table 6-1 in <u>Chapter 6</u>) 		\boxtimes
 If "yes," would the project result in a collective utilization rate of the group child care/Head Start centers in the study area that is greater than 100 percent? 		
o If "yes," would the project increase the collective utilization rate by 5 percent or more from the No-Action scenario?		
ii. Libraries		
 Would the project result in a 5 percent or more increase in the ratio of residential units to library branches? (See Table 6-1 in <u>Chapter 6</u>) 		
o If "yes," would the project increase the study area population by 5 percent or more from the No-Action levels?		
 If "yes," would the additional population impair the delivery of library services in the study area? 		
iii. Public Schools		
 Would the project result in 50 or more elementary or middle school students, or 150 or more high school students based on number of residential units? (See Table 6-1 in <u>Chapter 6</u>) 		
 If "yes," would the project result in a collective utilization rate of the elementary and/or intermediate schools in the study area that is equal to or greater than 100 percent? 		
o If "yes," would the project increase this collective utilization rate by 5 percent or more from the No-Action scenario?		
iv. Health Care Facilities		
 Would the project result in the introduction of a sizeable new neighborhood? 		
 If "yes," would the project affect the operation of health care facilities in the area? 		
v. Fire and Police Protection		
 Would the project result in the introduction of a sizeable new neighborhood? 		\boxtimes
o If "yes," would the project affect the operation of fire or police protection in the area?		
4. OPEN SPACE: CEQR Technical Manual Chapter 7		
(a) Would the project change or eliminate existing open space?		\boxtimes
(b) Is the project located within an under-served area in the Bronx, Brooklyn, Manhattan, Queens, or Staten Island?		\boxtimes
(c) If "yes," would the project generate more than 50 additional residents or 125 additional employees?		\boxtimes
(d) Is the project located within a well-served area in the Bronx, Brooklyn, Manhattan, Queens, or Staten Island?		\boxtimes
(e) If "yes," would the project generate more than 350 additional residents or 750 additional employees?		
(f) If the project is located in an area that is neither under-served nor well-served, would it generate more than 200 additional residents or 500 additional employees?		\boxtimes
(g) If "yes" to questions (c), (e), or (f) above, attach supporting information to answer the following:		
o If in an under-served area, would the project result in a decrease in the open space ratio by more than 1 percent?		
o If in an area that is not under-served, would the project result in a decrease in the open space ratio by more than 5		

	YES	NO
percent?		
 If "yes," are there qualitative considerations, such as the quality of open space, that need to be considered? Please specify: 		
5. SHADOWS: CEQR Technical Manual Chapter 8		
(a) Would the proposed project result in a net height increase of any structure of 50 feet or more?		\boxtimes
(b) Would the proposed project result in any increase in structure height and be located adjacent to or across the street from a sunlight-sensitive resource?	\boxtimes	
(c) If "yes" to either of the above questions, attach supporting information explaining whether the project's shadow would reach	any sun	light-
sensitive resource at any time of the year. See attached report.		
6. HISTORIC AND CULTURAL RESOURCES: CEQR Technical Manual Chapter 9		
(a) Does the proposed project site or an adjacent site contain any architectural and/or archaeological resource that is eligible for or has been designated (or is calendared for consideration) as a New York City Landmark, Interior Landmark or Scenic Landmark; that is listed or eligible for listing on the New York State or National Register of Historic Places; or that is within a designated or eligible New York City, New York State or National Register Historic District? (See the GIS System for Archaeology and National Register to confirm)	\boxtimes	
(b) Would the proposed project involve construction resulting in in-ground disturbance to an area not previously excavated?		\boxtimes
(c) If "yes" to either of the above, list any identified architectural and/or archaeological resources and attach supporting informa	tion on	
whether the proposed project would potentially affect any architectural or archeological resources. See attached report.		
7. URBAN DESIGN AND VISUAL RESOURCES: CEQR Technical Manual Chapter 10		
(a) Would the proposed project introduce a new building, a new building height, or result in any substantial physical alteration to the streetscape or public space in the vicinity of the proposed project that is not currently allowed by existing zoning?		
(b) Would the proposed project result in obstruction of publicly accessible views to visual resources not currently allowed by existing zoning?		\boxtimes
(c) If "yes" to either of the above, please provide the information requested in Chapter 10. See attached report.		
8. NATURAL RESOURCES: CEQR Technical Manual Chapter 11		
(a) Does the proposed project site or a site adjacent to the project contain natural resources as defined in Section 100 of Chapter 11?		\boxtimes
 If "yes," list the resources and attach supporting information on whether the project would affect any of these resources. 		
(b) Is any part of the directly affected area within the <u>Jamaica Bay Watershed</u> ?		\boxtimes
 If "yes," complete the <u>Jamaica Bay Watershed Form</u> and submit according to its <u>instructions</u>. 		
9. HAZARDOUS MATERIALS: CEQR Technical Manual Chapter 12		
(a) Would the proposed project allow commercial or residential uses in an area that is currently, or was historically, a manufacturing area that involved hazardous materials?		\boxtimes
(b) Does the proposed project site have existing institutional controls (<i>e.g.</i> , (E) designation or Restrictive Declaration) relating to hazardous materials that preclude the potential for significant adverse impacts?		
(c) Would the project require soil disturbance in a manufacturing area or any development on or near a manufacturing area or existing/historic facilities listed in Appendix 1 (including nonconforming uses)?		\boxtimes
(d) Would the project result in the development of a site where there is reason to suspect the presence of hazardous materials, contamination, illegal dumping or fill, or fill material of unknown origin?		\boxtimes
(e) Would the project result in development on or near a site that has or had underground and/or aboveground storage tanks (e.g., gas stations, oil storage facilities, heating oil storage)?		
(f) Would the project result in renovation of interior existing space on a site with the potential for compromised air quality;		\boxtimes
vapor intrusion from either on-site or off-site sources; or the presence of asbestos, PCBs, mercury or lead-based paint? (g) Would the project result in development on or near a site with potential hazardous materials issues such as government-		
listed voluntary cleanup/brownfield site, current or former power generation/transmission facilities, coal gasification or gas storage sites, railroad tracks or rights-of-way, or municipal incinerators?		\boxtimes
(h) Has a Phase I Environmental Site Assessment been performed for the site?		\boxtimes
If "yes," were Recognized Environmental Conditions (RECs) identified? Briefly identify:	一一	Ħ
(i) Based on the Phase I Assessment, is a Phase II Investigation needed?		Ħ
10. WATER AND SEWER INFRASTRUCTURE: CEQR Technical Manual Chapter 13		
(a) Would the project result in water demand of more than one million gallons per day?		\boxtimes
(b) If the proposed project located in a combined sewer area, would it result in at least 1,000 residential units or 250,000		
square feet or more of commercial space in Manhattan, or at least 400 residential units or 150,000 square feet or more of		\boxtimes

	YES	NO
(c) If the proposed project located in a <u>separately sewered area</u> , would it result in the same or greater development than that listed in Table 13-1 in <u>Chapter 13</u> ?		\boxtimes
(d) Would the project involve development on a site that is 5 acres or larger where the amount of impervious surface would increase?		\boxtimes
(e) If the project is located within the <u>Jamaica Bay Watershed</u> or in certain <u>specific drainage areas</u> , including Bronx River, Coney Island Creek, Flushing Bay and Creek, Gowanus Canal, Hutchinson River, Newtown Creek, or Westchester Creek, would it involve development on a site that is 1 acre or larger where the amount of impervious surface would increase?		\boxtimes
(f) Would the proposed project be located in an area that is partially sewered or currently unsewered?		
(g) Is the project proposing an industrial facility or activity that would contribute industrial discharges to a Wastewater		\boxtimes
Treatment Plant and/or contribute contaminated stormwater to a separate storm sewer system? (h) Would the project involve construction of a new stormwater outfall that requires federal and/or state permits?		
(i) If "yes" to any of the above, conduct the appropriate preliminary analyses and attach supporting documentation.		
11. SOLID WASTE AND SANITATION SERVICES: CEQR Technical Manual Chapter 14		
(a) Using Table 14-1 in Chapter 14, the project's projected operational solid waste generation is estimated to be (pounds per we	eek): 601	l
 Would the proposed project have the potential to generate 100,000 pounds (50 tons) or more of solid waste per week? 		
(b) Would the proposed project involve a reduction in capacity at a solid waste management facility used for refuse or		
recyclables generated within the City?		
 If "yes," would the proposed project comply with the City's Solid Waste Management Plan? 		
12. ENERGY: CEQR Technical Manual Chapter 15		
(a) Using energy modeling or Table 15-1 in <u>Chapter 15</u> , the project's projected energy use is estimated to be (annual BTUs): 5,0	39,788	
(b) Would the proposed project affect the transmission or generation of energy?		
13. TRANSPORTATION: CEQR Technical Manual Chapter 16		
(a) Would the proposed project exceed any threshold identified in Table 16-1 in Chapter 16?		
(b) If "yes," conduct the appropriate screening analyses, attach back up data as needed for each stage, and answer the following	question	ns:
 Would the proposed project result in 50 or more Passenger Car Equivalents (PCEs) per project peak hour? 		
If "yes," would the proposed project result in 50 or more vehicle trips per project peak hour at any given intersection? **It should be noted that the lead agency may require further analysis of intersections of concern even when a project generates fewer than 50 vehicles in the peak hour. See Subsection 313 of Chapter 16 for more information.		
 Would the proposed project result in more than 200 subway/rail or bus trips per project peak hour? 		
If "yes," would the proposed project result, per project peak hour, in 50 or more bus trips on a single line (in one direction) or 200 subway/rail trips per station or line?		
 Would the proposed project result in more than 200 pedestrian trips per project peak hour? 		
If "yes," would the proposed project result in more than 200 pedestrian trips per project peak hour to any given pedestrian or transit element, crosswalk, subway stair, or bus stop?		
14. AIR QUALITY: CEQR Technical Manual Chapter 17		
(a) Mobile Sources: Would the proposed project result in the conditions outlined in Section 210 in Chapter 17?		\boxtimes
(b) Stationary Sources: Would the proposed project result in the conditions outlined in Section 220 in Chapter 17?		
 If "yes," would the proposed project exceed the thresholds in Figure 17-3, Stationary Source Screen Graph in <u>Chapter</u> 17? (Attach graph as needed) See attached report. 		
(c) Does the proposed project involve multiple buildings on the project site?		\boxtimes
(d) Does the proposed project require federal approvals, support, licensing, or permits subject to conformity requirements?		\boxtimes
(e) Does the proposed project site have existing institutional controls (e.g., (E) designation or Restrictive Declaration) relating to air quality that preclude the potential for significant adverse impacts?		
(f) If "yes" to any of the above, conduct the appropriate analyses and attach any supporting documentation. See attached repo	rt.	
15. GREENHOUSE GAS EMISSIONS: CEQR Technical Manual Chapter 18		
(a) Is the proposed project a city capital project or a power generation plant?		\boxtimes
(b) Would the proposed project fundamentally change the City's solid waste management system?		
(c) Would the proposed project result in the development of 350,000 square feet or more?		
(d) If "yes" to any of the above, would the project require a GHG emissions assessment based on guidance in Chapter 18?		
o If "yes," would the project result in inconsistencies with the City's GHG reduction goal? (See Local Law 22 of 2008; § 24-		

	YES	NO
803 of the Administrative Code of the City of New York). Please attach supporting documentation.		
16. NOISE: CEQR Technical Manual Chapter 19		
(a) Would the proposed project generate or reroute vehicular traffic?		
(b) Would the proposed project introduce new or additional receptors (see Section 124 in <u>Chapter 19</u>) near heavily trafficked roadways, within one horizontal mile of an existing or proposed flight path, or within 1,500 feet of an existing or proposed rail line with a direct line of site to that rail line?		\boxtimes
(c) Would the proposed project cause a stationary noise source to operate within 1,500 feet of a receptor with a direct line of sight to that receptor or introduce receptors into an area with high ambient stationary noise?		
(d) Does the proposed project site have existing institutional controls (e.g., (E) designation or Restrictive Declaration) relating to noise that preclude the potential for significant adverse impacts?		
(e) If "yes" to any of the above, conduct the appropriate analyses and attach any supporting documentation. See attached rep	ort.	
17. PUBLIC HEALTH: CEQR Technical Manual Chapter 20		
(a) Based upon the analyses conducted, do any of the following technical areas require a detailed analysis: Air Quality; Hazardous Materials; Noise?		
(b) If "yes," explain why an assessment of public health is or is not warranted based on the guidance in Chapter 20 , "Public He preliminary analysis, if necessary.	alth." Atta	ach a
18. NEIGHBORHOOD CHARACTER: CEQR Technical Manual Chapter 21		
(a) Based upon the analyses conducted, do any of the following technical areas require a detailed analysis: Land Use, Zoning, and Public Policy; Socioeconomic Conditions; Open Space; Historic and Cultural Resources; Urban Design and Visual Resources; Shadows; Transportation; Noise?		
(b) If "yes," explain why an assessment of neighborhood character is or is not warranted based on the guidance in <u>Chapter 21</u>Character." Attach a preliminary analysis, if necessary.	"Neighbo	rhood
19. CONSTRUCTION: CEQR Technical Manual Chapter 22		
(a) Would the project's construction activities involve:		
Construction activities lasting longer than two years?	,•	
 Construction activities within a Central Business District or along an arterial highway or major thoroughfare? 		
 Closing, narrowing, or otherwise impeding traffic, transit, or pedestrian elements (roadways, parking spaces, bicycle routes, sidewalks, crosswalks, corners, etc.)? 		
 Construction of multiple buildings where there is a potential for on-site receptors on buildings completed before the final build-out? 		
 The operation of several pieces of diesel equipment in a single location at peak construction? 		
Closure of a community facility or disruption in its services?		
 Activities within 400 feet of a historic or cultural resource? 		
 Disturbance of a site containing or adjacent to a site containing natural resources? 		
 Construction on multiple development sites in the same geographic area, such that there is the potential for several construction timelines to overlap or last for more than two years overall? 		
(b) If any boxes are checked "yes," explain why a preliminary construction assessment is or is not warranted based on the guid 22 , "Construction." It should be noted that the nature and extent of any commitment to use the Best Available Technolog equipment or Best Management Practices for construction activities should be considered when making this determination. See attached report.	for const	napter ruction
20. APPLICANT'S CERTIFICATION		
I swear or affirm under oath and subject to the penalties for perjury that the information provided in this Environme Statement (EAS) is true and accurate to the best of my knowledge and belief, based upon my personal knowledge are with the information described herein and after examination of the pertinent books and records and/or after inquiry have personal knowledge of such information or who have examined pertinent books and records. Still under oath, I further swear or affirm that I make this statement in my capacity as the applicant or representative	d familia of perso	rity ns who
that seeks the permits, approvals, funding, or other governmental action(s) described in this EAS. APPLICANT/REPRESENTATIVE NAME John J. Strauss, Compliance Solutions Services, LLC DATE Augustian	st 3, 2018	3

PLEASE NOTE THAT APPLICANTS MAY BE REQUIRED TO SUBSTANTIATE RESPONSES IN THIS FORM AT THE DISCRETION OF THE LEAD AGENCY SO THAT IT MAY SUPPORT ITS DETERMINATION OF SIGNIFICANCE.

Da	ST III. DETERMINATION OF SIGNIFICANCE ITS BE COMPLE	tod by Load Agancy)	-				
	art III: DETERMINATION OF SIGNIFICANCE (To Be Comple		OC / [
	STRUCTIONS: In completing Part III, the lead agency should be seen as a second		Jo (Execut	ive			
Or	rder 91 or 1977, as amended), which contain the State an		Datas	A!= -			
	1. For each of the impact categories listed below, consider whether the project may have a significant Potentially						
	adverse effect on the environment, taking into account its (a) location; (b) probability of occurring; (c) duration; (d) irreversibility; (e) geographic scope; and (f) magnitude. Significant Adverse Impact						
		magnitude.					
- 1	IMPACT CATEGORY		YES	NO			
	Land Use, Zoning, and Public Policy						
	Socioeconomic Conditions						
-	Community Facilities and Services	,					
	Open Space			X			
	Shadows						
	Historic and Cultural Resources		<u> </u>				
	Urban Design/Visual Resources						
	Natural Resources						
	Hazardous Materials						
	Water and Sewer Infrastructure						
ļ	Solid Waste and Sanitation Services						
	Energy						
Į	Transportation						
	Air Quality						
	Greenhouse Gas Emissions						
	Noise						
	Public Health						
	Neighborhood Character	2					
	Construction						
	2. Are there any aspects of the project relevant to the dete significant impact on the environment, such as combined covered by other responses and supporting materials?			\boxtimes			
	If there are such impacts, attach an explanation stating where a significant impact on the environment.	whether, as a result of them, the project may					
	3. Check determination to be issued by the lead agency:						
	 Positive Declaration: If the lead agency has determined that the project may have a significant impact on the environment, and if a Conditional Negative Declaration is not appropriate, then the lead agency issues a Positive Declaration and prepares a draft Scope of Work for the Environmental Impact Statement (EIS). Conditional Negative Declaration: A Conditional Negative Declaration (CND) may be appropriate if there is a private applicant for an Unlisted action AND when conditions imposed by the lead agency will modify the proposed project so that 						
no significant adverse environmental impacts would result. The CND is prepared as a separate document and is subject to the requirements of 6 NYCRR Part 617.							
Negative Declaration: If the lead agency has determined that the project would not result in potentially significant adverse environmental impacts, then the lead agency issues a Negative Declaration. The Negative Declaration may be prepared as a separate document (see template) or using the embedded Negative Declaration on the next page.							
	4. LEAD AGENCY'S CERTIFICATION		40.0				
De	TITLE Deputy Director, Environmental Assessment and Review Division LEAD AGENCY Department of City Planning, acting on behalf of the City Planning Commission						
NAME DATE			_				
	ga Abinader	8/3/2018					
SIG	OL & OLL						

Project Name: 51 White Street

CEQR #: 18DCP092M

SEQRA Classification: Type I

NEGATIVE DECLARATION (Use of this form is optional)

Statement of No Significant Effect

Pursuant to Executive Order 91 of 1977, as amended, and the Rules of Procedure for City Environmental Quality Review, found at Title 62, Chapter 5 of the Rules of the City of New York and 6 NYCRR, Part 617, State Environmental Quality Review, the Department of City Planning, acting on behalf of the City Planning Commission assumed the role of lead agency for the environmental review of the proposed project. Based on a review of information about the project contained in this environmental assessment statement and any attachments hereto, which are incorporated by reference herein, the lead agency has determined that the proposed project would not have a significant adverse impact on the environment.

Reasons Supporting this Determination

The above determination is based on information contained in this EAS, which finds that the proposed project: and related actions sought before the City Planning Commission would have no significant effect on the quality of the environment. Reasons supporting this Determination are noted below.

1. Historic and Cultural Resources

The proposed action would facilitate the two story enlargement of a contributing building in the Tribeca East Historic District. LPC has issued a Certificate of Appropriateness and agrees with the conclusion of no significant adverse impacts to Historic and Cultural Resources. An LPC Restrictive Declaration will be recorded on the property which includes a continuing maintenance plan designed to ensure that the subject building will be preserved in a sound first-class condition in perpetuity.

Land Use, Zoning and Public Policy

2. This EAS includes a detailed Land Use, Zoning and Public Policy section, which analyzes the potential significance of the proposed action on land use, zoning and public policy in the study area. The proposed action would modify bulk regulations to facilitate a two story enlargement and the residential use of a mezzanine level in an existing building at 51 White Street in the Tribeca East Historic District of Manhattan. The study area is characterized by diverse uses including residential, commercial, mixed residential/commercial and community facility uses. The analysis concludes that no significant adverse impacts related to Land Use, Zoning and Public Policy would result from the proposed action.

Air Quality

3. The proposed action would not result in any significant adverse impacts related to air quality. In both the no-action and with-action scenarios, the approved DOB plans and proposed site plans include details for an electric HVAC system with no emissions stack. Accordingly, a detailed air quality analysis is not warranted.

No other significant effects upon the environment that would require the preparation of a Draft Environmental Impact Statement are foreseeable. This Negative Declaration has been prepared in accordance with Article 8 of the New York State Environmental Conservation Law (SEQRA).

otato zirin oriintari oorioori vatiori tari (ozali iri)	
TITLE	LEAD AGENCY
Deputy Director, Environmental Assessment and Review	Department of City Planning, acting on behalf of the City
Division	Planning Commission
NAME	DATE
Olga Abinader	8/3/2018
SIGNATURE CALL	

TITLE						
Chair, Department of City Planning						
NAME	DATE					
Marisa Lago	8/6/2018					
SIGNATURE						

PROJECT DESCRIPTION

51 White Street Project Description

Introduction

The Applicant, 51 White Street LLC, is seeking a City Planning Commission (CPC) Special Permit pursuant to Zoning Resolution (ZR) Section 74-711 ("Landmarks preservation in all districts") to waive the height limitations of ZR Section 23-692 ("Height limitations for narrow buildings or enlargements"), the front setback requirements of ZR Section 23-662 ("Maximum height of buildings and setback regulations"), the required 30-foot distance between legally required windows and the rear lot line of ZR Section 23-861 ("General provisions"), and the minimum required dimensions of the rear inner courts of ZR Section 23-851(b) ("Minimum dimensions of inner courts"). The Proposed Action would facilitate a proposal by the Applicant to construct a two-story vertical enlargement and to allow for the residential occupancy of a mezzanine level in a building located on a property at 51-53 White Street (Block 175, Lot 24, the "Project Site") in the Tribeca East Historic District in the Tribeca neighborhood of Manhattan, Community District 1. The existing building on the project site is currently vacant.

Existing Conditions

Description of the Surrounding Area

The area surrounding the project site is characterized by mid-rise commercial, mixed commercial and residential, and residential buildings. The area surrounding the site is zoned C6-2A, C6-4A, and M1-5. The Special Tribeca Mixed Use District is located to the west.

The project site is located within the Tribeca East Historic District. The Tribeca East Historic District is defined by ornate store and loft buildings which reflect the district's role as the center for dry goods and related businesses in New York City. The site is bordered by the NYC Landmarks Preservation Commission (LPC) designated individual landmark Condict Store at 55 White Street to the east. There are also a number of other LPC designated individual landmarks in the immediately surrounding area including the Woods Mercantile Building at 46-50 White Street; the New York Life Insurance Company building at 346 Broadway (interior landmark); the Kitchen, Montross and Wilcox Store at 85 Leonard Street; 87 Leonard Street; the James White Building at 361 Broadway; and the 359 Broadway Building.

The Civic Centre Synagogue, which borders the project site to the west, is a two-story community facility building that rises to a height of 66′-7″ and is not a designated landmark. The landmarked 55 White Street, which borders the project site to the east, is a seven-story mixed-use building with ground floor retail space and residential space above. The north and south sides of White Street between Church Street and Franklin Place are characterized by five-to seven-story residential and mixed-residential and commercial buildings, many of which contribute to the historic character of the Tribeca East Historic District.

Description of the Project Site

The project site is identified as 51-53 White Street (Block 175, Lot 24). The site consists of an interior lot located along the southerly side of White Street on a block that is bounded by White Street to the north, Franklin Place to the east, Franklin Street to the south, and Church Street to the west in the Tribeca neighborhood of Manhattan. The property is located within the LPC

designated Tribeca East Historic District and is adjacent to the individually designated Condict Store landmark at 55 White Street to the east.

The property consists of a 3,900 square foot rectangular shaped lot with 39' of frontage along the south side of White Street between Church Street and Broadway and a depth of 100'. White Street is a narrow street with a width of 50 feet. The property is zoned C6-2A.

The property is developed with a five-story, cellar, and sub-cellar vacant building which was constructed in 1857-58. The existing 24,375 gross square foot (gsf) building rises to a height of 76′-2″ and contains 13,260 gsf of residential floor area and 11,115 gsf of commercial floor area. The existing building has a rear yard of 6 feet up to a height of 38′-9″ and then has a 15-foot rear yard.

The building, which became vacant in April 2016, was previously occupied by Use Group (UG) 6 commercial office space and accessory storage on the building's first, cellar, and sub-cellar floors, and by 12 units of UG 2 residential space on the building's second through fifth floors. The second through fifth floors of the building were converted to Class A apartments as-of-right in 1984 but no Certificate of Occupancy was issued for residential use in connection with that job application, which would have been permitted within the C6-4 district that existed at the time.

The site was contextually rezoned from C6-4 to C6-2A on May 24th, 1995 as a part of application C 940309 ZMM to enhance land use development in portions of the Special Lower Manhattan Mixed Use Districts (LMM) by creating a transition from the higher density downtown Central Business District and Civic Center to the loft character of TriBeCa and LMM areas, reinforcing existing building context by requiring street walls for new developments, permitting infill residential construction in the LMM area, and promoting a range of as-of-right uses that reflect the existing land use and trends.

The 3,900 square foot site is currently developed with 16,965 zoning square feet (zsf) of total floor area which represents an FAR of 4.35. The 13,260 zsf of residential floor area on the site represents an FAR of 3.4 and the 3,705 zsf of commercial floor area represents an FAR of 0.95. The project site's C6-2A zoning permits a maximum base residential FAR of 6.02 and a maximum base commercial FAR of 6.0 which would allow up to 23,478 zsf of residential floor area or 23,400 zsf of commercial floor area on the property.

A summary of the status of NYC Department of Buildings filed plans and construction work that have recently occurred or are currently occurring in the building follows below. All items listed below would occur in the absence of the proposed project and would be completed before the analysis year, 2020, absent the Proposed Action.

- 1. DOB Job #140681180, 140681233 & 140681215 for new sidewalk shed, scaffolding, and fence during construction. (This item is completed and the new sidewalk shed, scaffolding, and fence will remain in place until construction is completed.)
- 2. DOB Job #121788048 for removal of interior partitions, dropped ceilings, interior doors, walls, flooring, plumbing and mechanical. (This item is 95% complete pending the existing roof. Completion is expected by May 2018.)

- 3. DOB Job #122913062 for interior renovation of existing 5 story building including new HVAC, plumbing, elevator, sprinkler and standpipe, new windows and storefront within the existing building envelope as further detailed below. (This item is 30% complete. Completion is expected in late 2018. Item 3 will be amended to become the DOB application that requires the proposed action.)
 - Sub-cellar excavation to accommodate a new elevator and provide additional headroom in the sub-cellar;
 - New elevator and 2 stairs cores sub-cellar to roof bulkhead;
 - New first floor White Street storefront remove existing infill and replace infill with new building entry locations for first floor residential and commercial spaces (restore the storefront to its original 19th Century appearance by exposing and restoring the original cast iron columns that are covered in stucco and terra-cotta brick);
 - New first floor mezzanine between existing first and second floors (floor 1A);
 - New rear façade windows and doors;
 - At the rear façade raise the existing first floor parapet five feet higher than the existing adjacent west retaining wall parapet; and
 - Plumbing, mechanical, sprinkler, and standpipe work associated with the above work.

Description of the Proposed Development

The Applicant is requesting a Special Permit in order to construct a two-story vertical enlargement to the existing five-story mixed-use building on the project site, resulting in a building that rises to a height of 100′-8″ with a 10-foot front setback at the sixth floor and a 12-foot front setback at the seventh floor at the maximum building base height of 85 feet. The proposed materials for the north and south walls of the addition would be metal and glass while the proposed material for the east and west walls of the addition would be stucco. The proposed two-story vertical enlargement would contain approximately 5,025 gsf of residential floor area and would result in the addition of two new dwelling units in the building. The proposed sixth and seventh floor additions would have 20-foot rear yards. A balcony is proposed to extend 3′-8″ into the rear yard at the seventh floor. The Applicant proposes to raise the west wall of the existing building to a height varying from 3′-6″ to 4′-6″ for a depth of 40 feet to lessen the visual impact of the addition from White Street.

As part of the Special Permit application, the Applicant also proposes to remove the fire escape on the façade of the building; clean and make all necessary repairs to the stone face of the building; replace all 24 front façade windows from the second through fifth floors with windows that match historic profiles of 19th century windows; and restore the fire shutters of the building.

A 2,506 gsf mezzanine would be constructed between the existing first and second floors of the building (floor 1A) in the absence of the Proposed Action. In order to construct the proposed floor 1A, the Applicant proposes to raise the existing rear first floor roof parapet by five feet, which would also occur in the absence of the Proposed Action. Although floor 1A would be constructed in the future without the action, the Special Permit is needed to provide legally required light and air per ZR Section 23-861 for the bedrooms that would be created at the rear of floor 1A. Floor 1A would be used as a separate residential unit in the proposed development.

The combined vertical enlargement and floor 1A would result in a total increase of 7,531 gsf of residential floor area. The proposed development would contain one residential unit per floor on floors 1a, 2, 3, 4, and 5, and a duplex unit on floors 6 and 7 for a total of 6 dwelling units.

The LPC Restrictive Declaration includes a continuing maintenance plan which is a program designed to ensure that the subject building will be preserved in a sound first-class condition in perpetuity. This obligation includes a thorough inspection of the building every five years and the preparation of an existing conditions report that shall be submitted to the LPC. All work identified in the existing conditions report as necessary to maintain this building in a sound, first-class condition must be expeditiously undertaken. See Historic and Cultural Resources Appendix.

The Landmarks Committee of Manhattan Community Board 1 has issued a favorable resolution for the proposed renovation and two-story addition of the existing building at 51-53 White Street on October 25th, 2016, which was required prior to the LPC public hearing. LPC voted to approve the proposal at their December 6, 2016 meeting and will issue a report to the CPC. LPC issued a Certificate of Appropriateness (COFA-19-11467) dated December 29, 2017 in conjunction with Certificate of No Effect 19-1576, issued June 5, 2017, and Modification of Use 19-11468, issued December 22, 2017. The COFA permit will remain in effect until December 6, 2022. See Historic and Cultural Resources Appendix.

Build Year

Based on an estimated 12- to 18-month approval process (including a ULURP approval process of up to 215 days) and an 8-month construction period, the Build Year is assumed to be 2020.

Purpose and Need

The Applicant requests a Special Permit pursuant to ZR Section 74-711 ("Landmarks preservation in all districts") to waive the height limitations of ZR Section 23-692 ("Height limitations for narrow buildings or enlargements"), the front setback requirements of ZR Section 23-662 ("Maximum height of buildings and setback regulations"), the required 30-foot distance between legally required windows and the rear lot line of ZR Section 23-861 ("General Regulations"), and the minimum required dimensions of the rear inner courts for the proposed floor 1A and the proposed sixth and seventh floors of ZR Section 23-851(b) ("Minimum dimensions of inner courts") to allow a two-story vertical enlargement to the existing five-story building on the project site.

The City Planning Commission may, by Special Permit pursuant to Section 74-711, permit the modification of bulk regulations for zoning lots that are located within an LPC designated Historic District or that contain an LPC designated Individual Landmark. The project site is located within the LPC designated Tribeca East Historic District and is therefore eligible for the requested Special Permit.

The project site is zoned C6-2A which allows a maximum building height of 120 feet, but since the project site is situated on an interior lot that contains a building with a street wall width of less than 45 feet, the height of any building located on that lot is limited to the width of the street that the streetwall fronts up to a maximum of 100 feet pursuant to ZR Section 23-692 ("Height limitations for narrow buildings or enlargements"). Since White Street has a width of 50 feet, the effective height limit for the project site is 50 feet. However, this provision is further

modified by the provisions of ZR Section 23-692 which limit the building height to that of the lowest adjacent building, that being the 67-foot height of the synagogue on Block 175, Lot 22. The existing building is legally non-compliant based on the fact that the building was converted from office/storage to office/residential in 1986 (see drawings in the Architectural Plans Appendix). Article 1, Chapter 5 of the Zoning Resolution allows for existing non-compliances to remain when commercial buildings are converted to residential occupancy. A Special Permit is requested to waive the height limit to allow a total building height of 100'-8".

ZR Section 23-662 ("Maximum height of building and setback requirements") requires a 15-foot setback no lower than 65 feet and no higher than 85 feet in a C6-2A zoning district. A Special Permit is requested to waive these requirements to allow the construction of a two-story vertical enlargement to the existing five-story building on the site with a 12-foot front setback at the seventh floor at the maximum building base height of 85 feet. There will also be a permitted 10-foot front setback at the sixth floor.

C6-2A zoning districts require a 30-foot rear yard but since the site is located 95.46 feet of the point of intersection of White Street and Franklin Place, no rear yards are required pursuant to ZR Section 23-541 (Within one hundred feet of corners). However, pursuant to ZR Section 23-861 ("General provisions"), all legally required windows must be located 30 feet from a wall, rear lot line or side lot line in a C6-2A zoning district. A Special Permit is requested to waive these requirements to allow the construction of a two-story vertical enlargement to the existing five-story building on the site with legally required windows that are located 20 feet from the rear lot line.

The existing five story building has an existing non-compliant inner court from the second to the fifth floor under ZR Section 15-10. ZR Section 23-851(b) ("Minimum dimensions of inner courts"), which describes the minimum dimensions of inner courts, must be waived because the open area between the building and the rear lot line is an inner court. At the rear of the site, a waiver of ZR Section 23-851(b) is required for the minimum required dimensions of inner courts at floor 1A and the sixth and seventh floors.

A 2,506 gsf mezzanine would be constructed between the existing first and second floors of the building (floor 1A) in the absence of the Proposed Action. In order to construct the proposed floor 1A, the Applicant proposes to raise the existing rear first floor roof parapet by five feet which would also occur in the absence of the Proposed Action. Although floor 1A would be constructed in the future without the action, the Special Permit is needed to provide legally required light and air per ZR Section 23-861 for the bedrooms that would be created at the rear of floor 1A.

Future No-Action Scenario

Under the No-Action Scenario for the Project Build Year of 2020, new mezzanine floor area (floor 1A) would be added to the existing building on the project site. A new 2,506 gsf floor 1A would be constructed between the existing first and second floors of the building in the absence of the Proposed Action. Therefore, the existing 24,375 gsf vacant building would be increased in size to 26,881 gsf and would contain 13,260 gsf of residential floor area for four residential dwelling units and 13,621 gsf of commercial floor area. The building would also be re-occupied by residential and commercial uses. The sub-cellar and cellar of the building would contain office space and residential amenities such as storage and gym; the first floor would contain the

residential lobby and office space; and floors 1a, 2, 3, 4, and 5 would be occupied by residential space. The existing 76′-2″ height of the building would not change.

The 2,506 gsf floor 1A that would be constructed between the existing first and second floors of the building would be used as a storage room for the residential unit on the second floor of the building. Under the No-Action scenario, the building would be renovated as approved by the DOB and described below. All items listed below would occur in the absence of the proposed project and would be completed before the analysis year, 2020, absent the Proposed Action.

- 1. DOB Job #140681180, 140681233 & 140681215 for new sidewalk shed, scaffolding, and fence during construction. (This item is completed and the new sidewalk shed, scaffolding, and fence will remain in place until construction is completed.)
- 2. DOB Job #121788048 for removal of interior partitions, dropped ceilings, interior doors, walls, flooring, plumbing and mechanical. (This item is 95% complete pending the existing roof. Completion is expected by May 2018.)
- 3. DOB Job #122913062 for interior renovation of existing 5 story building including new HVAC, plumbing, elevator, sprinkler and standpipe, new windows and storefront within the existing building envelope as further detailed below. (This item is 30% complete. Completion is expected in late 2018. Item 3 will be amended to become the DOB application that requires the proposed action.)
 - Sub-cellar excavation to accommodate a new elevator and provide additional headroom in the sub-cellar;
 - New elevator and 2 stairs cores sub-cellar to roof bulkhead;
 - New first floor White Street storefront remove existing infill and replace infill with new building entry locations for first floor residential and commercial spaces (restore the storefront to its original 19th Century appearance by exposing and restoring the original cast iron columns that are covered in stucco and terra-cotta brick);
 - New first floor mezzanine between existing first and second floors (floor 1A);
 - New rear façade windows and doors;
 - At the rear façade raise the existing first floor parapet five feet higher than the existing adjacent west retaining wall parapet; and
 - Plumbing, mechanical, sprinkler, and standpipe work associated with the above work.

The 3,900 square foot site is currently developed with 16,965 zsf of total floor area which represents an FAR of 4.35. With the addition of the 2,327 zsf floor 1A¹ the total floor area would be 19,103 zsf which would represent an FAR of 4.90. The new 13,073 zsf of residential floor area on the site would represent an FAR of 3.35 and the 6,030 zsf of commercial floor area would represent an FAR of 1.55. The project site's C6-2A zoning permits a maximum base residential FAR of 6.02 and a maximum base commercial FAR of 6.0 which would allow up to 23,478 zsf of residential floor area and 23,400 zsf of commercial floor area on the property. The existing building has a rear yard of 6 feet up to a height of 38′-9″ and then has a 15-foot rear yard.

¹ Floor 1A would be considered a Use Group 6 storage use since the proposed special permit is required to provide light and air at the back windows to allow for a residential occupancy.

With the exception of the new floor 1A, no additional as-of-right new development would occur as the existing building footprint and/or height would need to be increased to accommodate additional floor area. The building footprint could not be enlarged as it would not comply with the requirement that legally required windows be located at least 30 feet from a wall, rear lot line or side lot line. As the maximum permitted height on the site is 67 feet and the existing building is 76′-2″ in height, no additional building height would be permitted. The existing building is legally non-compliant based on the fact that the building was converted from office/storage to office/residential in 1986. Article 1, Chapter 5 of the Zoning Resolution allows for existing non-compliances to remain when commercial buildings are converted to residential occupancy.

Future With-Action Scenario

The With-Action RWCDS for the Project Build Year of 2020 would entail the construction of a two-story vertical enlargement to the existing five-story mixed-use building on the project site, resulting in a building that rises to a height of 100′-8″ with a 10-foot front setback at the sixth floor and a 12-foot front setback at the seventh floor at the maximum building base height of 85 feet. The proposed materials for the north and south walls of the addition would be metal and glass while the proposed material for the east and west walls of the addition would be stucco. The proposed two-story vertical enlargement would contain approximately 5,025 gsf of residential floor area (this refers to the vertical enlargement only and not the total additional residential floor area). The proposed sixth and seventh floor additions would have 20-foot rear yards. A balcony is proposed to extend 3′-8″ into the rear yard at the seventh floor. The Applicant proposes to raise the west wall of the existing building to a height varying from 3′-6″ to 4′-6″ for a depth of 40 feet to lessen the visual impact of the addition from White Street.

As part of the Special Permit application, the Applicant also proposes to remove the fire escape on the façade of the building; clean and make all necessary repairs to the stone face of the building; replace all 24 front façade windows from the second through fifth floors with windows that match historic profiles of 19th century windows; and restore the fire shutters of the building. A 2,506 gsf mezzanine (floor 1A) would be constructed in the absence of the proposed action between the existing first and second floors of the building. The Special Permit is needed to provide legally required light and air per ZR Section 23-861 for the bedrooms that would be created at the rear of floor 1A. (Under the No-Action Scenario, floor 1A would be used as a storage room for the residential unit on the second floor of the building.) The proposed development would contain one residential unit per floor on floors 1a, 2, 3, 4, and 5, and a duplex unit on floors 6 and 7 for a total of 6 dwelling units.

With the addition of 6,375 zsf (7,531 gsf) of residential floor area, comprised of the 2,331 zsf (2,506 gsf) floor 1A and the 4,494 zsf (5,025 gsf) enlargement minus 450 zsf (0 gsf) to accommodate a double height space² in the rear of the first floor, the building would contain 23,150 zsf (31,905 gsf) of total floor area, representing an FAR of 5.94 on the 3,900 sf lot. The 19,895 zsf (20,790 gsf) of proposed residential floor area on the site represents an FAR of 5.10 and the 3,255 zsf (11,115 gsf) of commercial floor area represents an FAR of 0.83. The project site's C6-2A zoning permits a maximum base residential FAR of 6.02 and a maximum base commercial FAR of 6.0 which would allow up to 23,478 zsf of residential floor area or 23,400 zsf

-

² A double height space is an area above a floor that is double the normal floor-to-floor height with no floor, stairs, or other area on which to stand.

of commercial floor area on the property. Following the proposed enlargement, the building would contain 31,905 gsf and 23,150 zsf of floor area and no additional floor area would be developed on the project site.

FIGURES & PHOTOGRAPHS

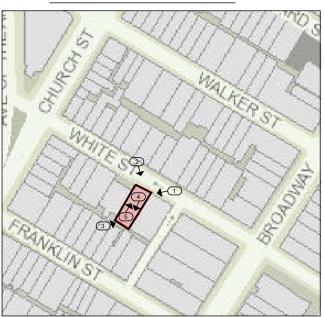






PHOTO 3 - VIEW OF FRONT REAR FACADE FROM COURT

PHOTO LOCATION PLAN



ALL PHOTOS TAKEN 11/11/2017

PHOTO 4 - VIEW OF ROOF FROM NORTH



PHOTO 5 - VIEW OF ROOF FROM SOUTH

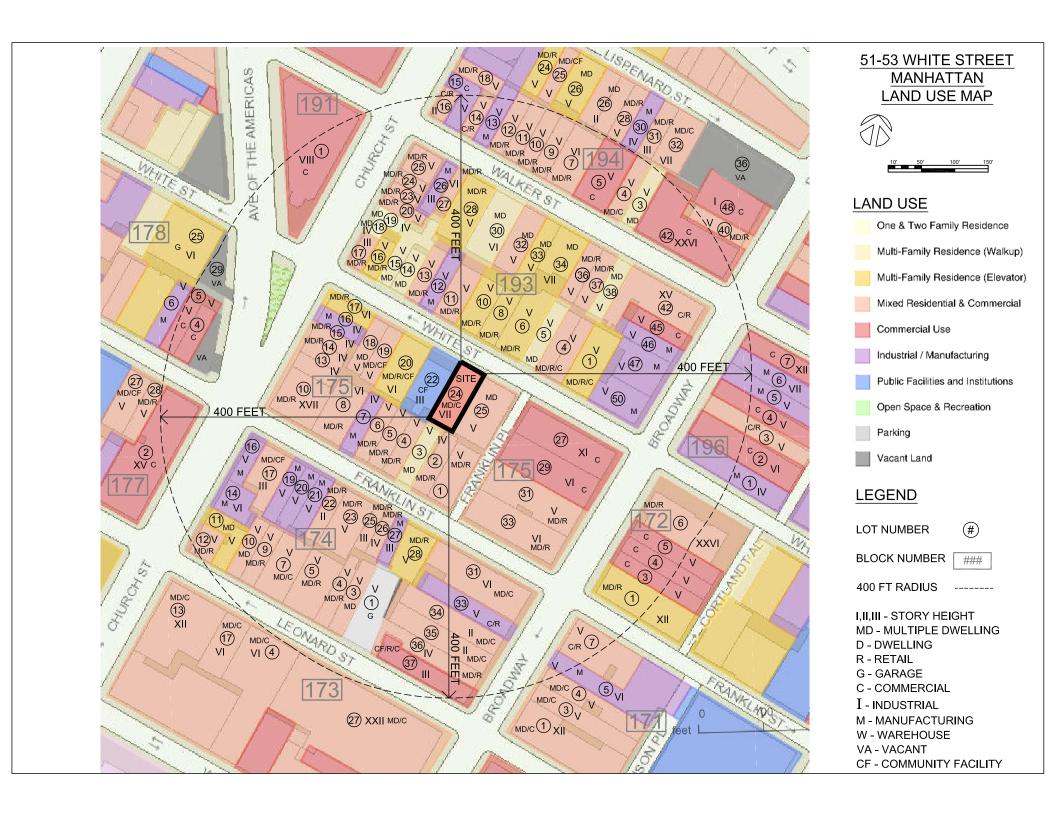
51WHITE STREET

MANHATTAN

BLOCK: 175, LOT: 24

PROJECT ID P2017M0085

SITE PHOTOGRAPHS



51-53 WHITE STREET MANHATTAN

ZONING MAP 12a



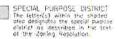
ZONING MAP

THE NEW YORK CITY PLANNING COMMISSION

Major Zoning Classifications:

The number(s) and/or letter(s) that follows to R. C or M District designation indicates use, butk and other controls as described in the text of the Zaning Resolution.

- R RESIDENTIAL DISTRICT
- C COMMERCIAL DISTRICT
- M MANUFACTURING DISTRICT



AREA(S) REZONED

Effective Date(s) of Rezoning:

63-20-2013 C 120380 ZMM

Special Requirements:

For a list of lots subject to CEGR environmental requirements, see APPENDIX C.

For a list of lats subject to "D" restrictive declarations, see APPENDIX D.

For inclusionary Housing designated areas on this map, see APPENDIX F.

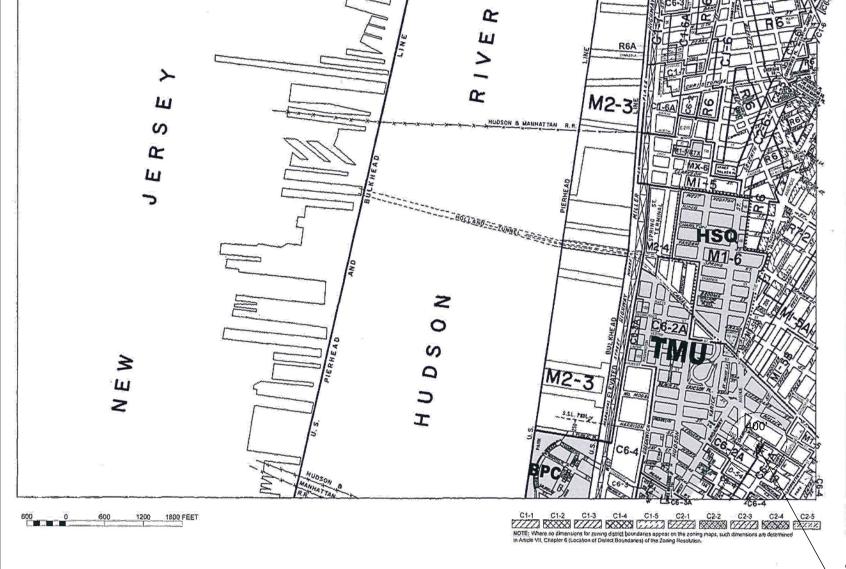
CITY MAP CHANGE(S): **A** 8-28-2015 C 150203 MMM

	EY	-
	8b	8d
	12a	120
DATE -	12b	12d

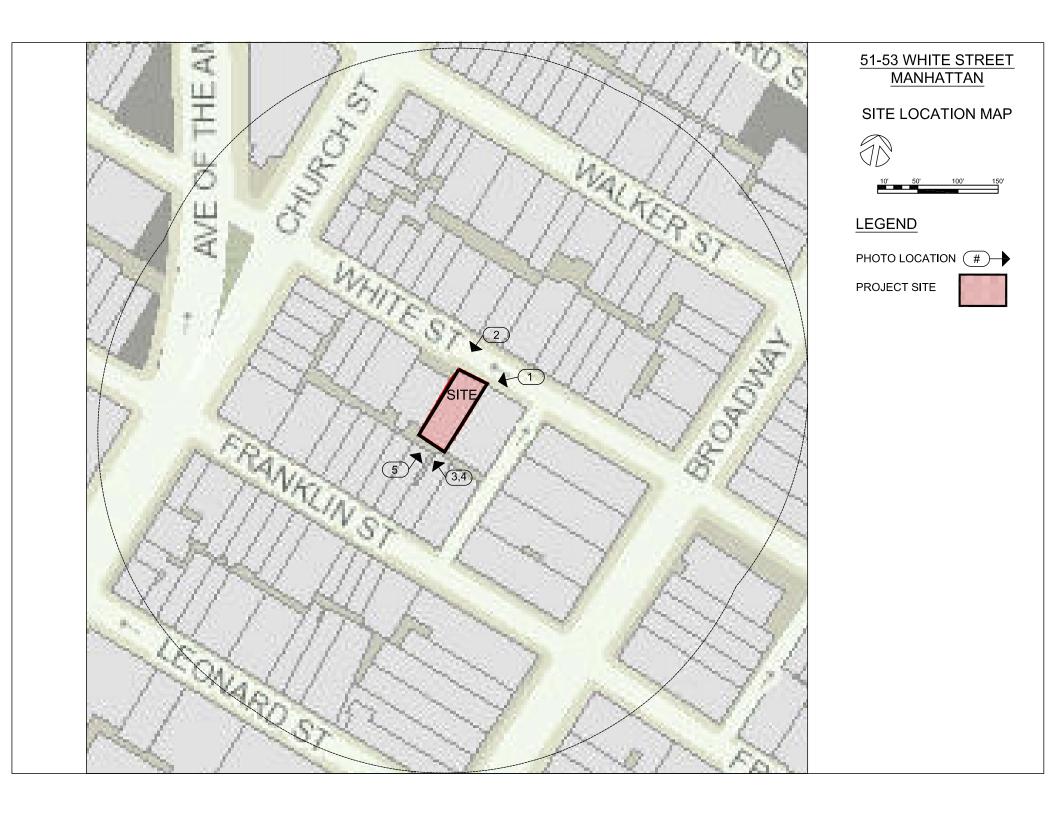
3

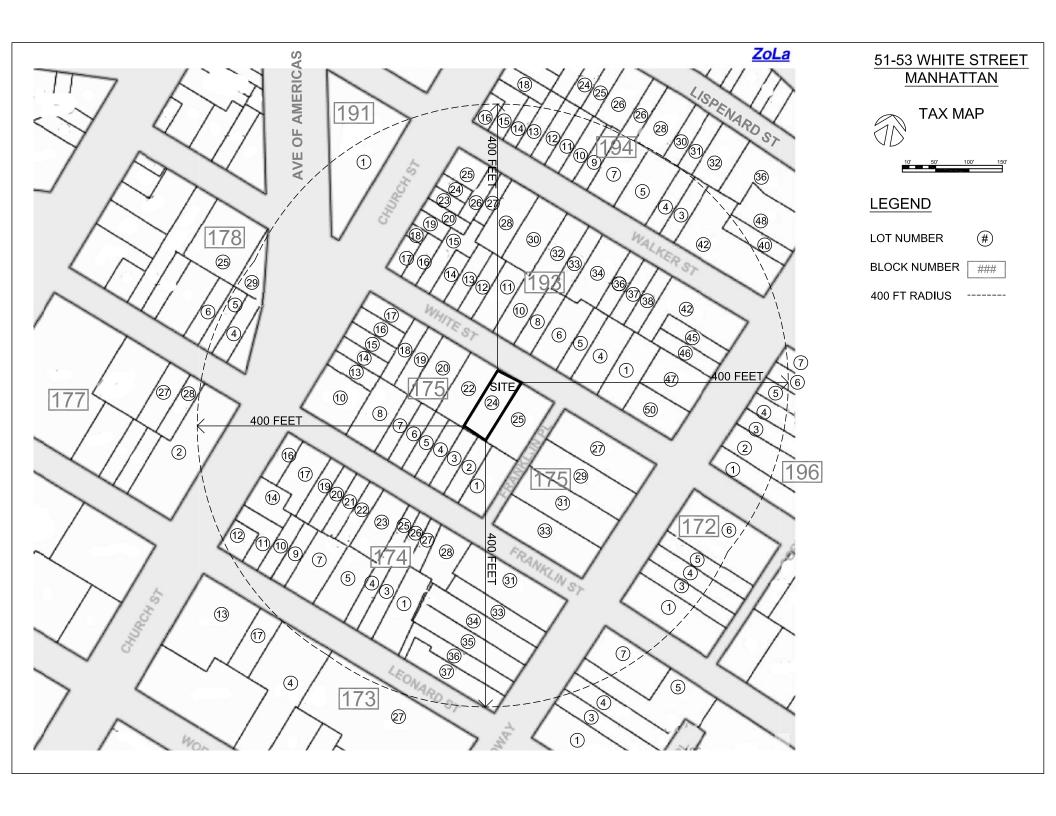
@ Copyrighted by the City of New York

NOTE: Zoning information as shown on this map is subject to change. For the most up-to-date zoning information for his map, visit the Zoning action of the Department of CVP Planning webster: www.nye-gov/planning or conflact the Zoning information Oesk at (212) 720-329.



SITE





SUPPLEMENTAL REPORT

EAS NARRATIVE ATTACHMENT 51 WHITE STREET - CPC SPECIAL PERMIT

ENVIRONMENTAL ASSESSMENT STATEMENT

INTRODUCTION

Based on the analysis and the screens contained in the Environmental Assessment Statement Full Form, the analysis areas that require further explanation include land use, zoning, and public policy (required for all projects); shadows; historic and cultural resources; urban design and visual resources; air quality; noise; and construction as further detailed below. The section numbers below correspond to the relevant chapters of the 2014 CEQR Technical Manual.

4. LAND USE, ZONING, AND PUBLIC POLICY

EXISTING CONDITIONS

Land Use

Project Site

The project site is identified as 51-53 White Street (Block 175, Lot 24). The site consists of an interior lot located along the southerly side of White Street on a block that is bounded by White Street to the north, Franklin Place to the east, Franklin Street to the south, and Church Street to the west in the Tribeca neighborhood of Manhattan. The property is located within the NYC Landmarks Preservation Commission (LPC) designated Tribeca East Historic District and is adjacent to the individually designated Condict Store landmark at 55 White Street to the east.

The property consists of a 3,900 square foot rectangular shaped lot with 39' of frontage along the south side of White Street between Church Street and Broadway and a depth of 100'. White Street is a narrow street with a width of 50 feet.

The property is developed with a five-story, cellar, and sub-cellar vacant building which was constructed in 1857-58. The existing 24,375 gross square foot (gsf) building rises to a height of 76′-2″ and contains 13,260 gsf of residential floor area and 11,115 gsf of commercial floor area. The existing building has a rear yard of 6 feet up to a height of 38′-9″ and then has a 15-foot rear yard.

The building, which became vacant in April 2016, was previously occupied by Use Group (UG) 6 commercial office space and accessory storage on the building's first, cellar, and sub-cellar floors, and by 12 units of UG 2 residential space on the building's second through fifth floors. The second through fifth floors of the building were converted to Class A apartments as-of-right in 1984 but no Certificate of Occupancy was issued for residential use in connection with that job application.

A summary of the status of NYC Department of Buildings filed plans and construction work that have recently occurred or are currently occurring in the building follows below. All items listed below would occur in the absence of the proposed project and would be completed before the analysis year, 2020, absent the Proposed Action.

- 1. DOB Job #140681180, 140681233 & 140681215 for new sidewalk shed, scaffolding, and fence during construction. (This item is completed and the new sidewalk shed, scaffolding, and fence will remain in place until construction is completed.)
- 2. DOB Job #121788048 for removal of interior partitions, dropped ceilings, interior doors, walls, flooring, plumbing and mechanical. (This item is 95% complete pending the existing roof. Completion is expected by May 2018.)
- 3. DOB Job #122913062 for interior renovation of existing 5 story building including new HVAC, plumbing, elevator, sprinkler and standpipe, new windows and storefront within the existing building envelope as further detailed below. (This item is 30% complete. Completion is expected in late 2018. Item 3 will be amended to become the DOB application that requires the proposed action.)
 - Sub-cellar excavation to accommodate a new elevator and provide additional headroom in the sub-cellar;
 - New elevator and 2 stairs cores sub-cellar to roof bulkhead;
 - New first floor White Street storefront remove existing infill and replace infill with new building entry locations for first floor residential and commercial spaces (restore the storefront to its original 19th Century appearance by exposing and restoring the original cast iron columns that are covered in stucco and terra-cotta brick);
 - New first floor mezzanine between existing first and second floors (floor 1A);
 - New rear façade windows and doors;
 - At the rear façade raise the existing first floor parapet five feet higher than the existing adjacent west retaining wall parapet; and
 - Plumbing, mechanical, sprinkler, and standpipe work associated with the above work.

Study Area

The primary study area extends approximately 400 feet in all directions from the project site. The study area is roughly bounded by an area midway between Walker and Lispenard Streets on the north, Leonard Street on the south, an area east of Broadway to the east, and an area west of Church Street and the Avenue of the Americas to the west. In order to assess existing land use conditions for the proposed development, a parcel by parcel inventory was undertaken within the 400-foot radius study area surrounding the site. The inventory included a survey of ground floor uses and upper floors by predominant use.

The surrounding 400-foot radius area is primarily characterized by mid-rise commercial, mixed commercial and residential, and residential buildings. Many of the residential and commercial buildings contain a ground floor retail component. The Civic Centre Synagogue, which borders the project site to the west, is a two-story community facility building that rises to a height of 66'-

7" and is not a designated landmark. The landmarked 55 White Street, which borders the project site to the east, is a seven-story mixed-use building with ground floor retail space and residential space above. The north and south sides of White Street between Church Street and Franklin Place are characterized by five- to seven-story residential and mixed-residential and commercial buildings, many of which contribute to the historic character of the Tribeca East Historic District in which the project site is located.

Block 175, on which the project site is located, is bisected by Franklin Place to the east of the site extending through the block connecting White and Franklin Streets. In addition to the buildings adjoining the project site to the east and west as described above, the block is primarily developed with four- to six-story buildings containing multiple residential dwelling units on the upper floors with either retail space or community facility space on the ground floor. The block also contains one 11-story commercial building and one 17-story residential building, both of which also contain ground floor retail space.

Block 174 to the south of the project site block across Franklin Street is primarily developed with two- to six-story buildings containing multiple dwelling units, many of which also contain ground floor retail space. The block also contains a five- story garage and several five- to six-story industrial loft buildings primarily occupied by industrial/manufacturing uses (see Air Toxics discussion in Air Quality section below).

Block 193 to the north of the project site block across White Street is primarily developed with three- to seven-story buildings containing residential dwelling units on the upper floors and ground floor retail space below. The block also contains a 15-story commercial/retail building, a five-story garage, and several five-story loft buildings primarily occupied by industrial/manufacturing uses (see Air Toxics discussion in Air Quality section below). Approximately one-half of Block 194 further to the north across Walker Street is primarily developed with five- to six-story commercial buildings and multiple dwellings, many of which also contain ground floor retail space. The included portion of the block also contains a 26-story commercial building.

Small portions of six other blocks are located within 400 feet of the project site. At the western edge of the study area, Blocks 177, 178, and 191 located along the Avenue of the Americas contain an 8-story commercial building (Block 191), a 15-story commercial building (Block 177), and two 5-story commercial buildings as well as two vacant parcels (Block 178). At the eastern edge of the study area, Blocks 171, 172, and 196 located along Broadway contain three 5-story buildings occupied by commercial, residential, and loft uses (Block 171), three 5-story commercial buildings, and a 12-story and a 26-story residential building with ground floor retail space (Block 172), and seven 4- to 12-story commercial and loft buildings (Block 196).

ZONING

Project Site

The New York City Zoning Resolution shows that the project site is located in a C6-2A commercial district. C6 districts permit a wide range of high-bulk commercial uses requiring a central location. Corporate headquarters, large hotels, department stores, and entertainment facilities in high-rise mixed buildings are permitted in C6 districts. C6-2 district are typically mapped in areas outside central business cores and have a commercial FAR of 6.0. Floor area may

be increased with a bonus for a public plaza or Inclusionary Housing. The C6-2A district in this area permits a residential FAR of 6.02, and has the residential district equivalent to the R8A district. The C6-2A district is a contextual district with maximum building heights. The C6-2A district is well served by mass transit, and off-street parking is not required.

The site was contextually rezoned from C6-4 to C6-2A on May 24, 1995 as a part of application C 940309 ZMM to enhance land use development in portions of the Special Lower Manhattan Mixed Use Districts (LMM) by creating a transition from the higher density downtown Central Business District and Civic Center to the loft character of TriBeCa and LMM areas, reinforcing existing building context by requiring street walls for new developments, permitting infill residential construction in LMM area, and promoting a range of as-of-right uses that reflect the existing land use and trends.

The 3,900 square foot site is currently developed with 16,965 zoning square feet (zsf) of total floor area which represents an FAR of 4.35. The 13,260 zsf of residential floor area on the site represents an FAR of 3.4 and the 3,705 zsf of commercial floor area represents an FAR of 0.95. As stated above, the project site's C6-2A zoning permits a maximum base residential FAR of 6.02 and a maximum base commercial FAR of 6.0 which would allow up to 23,478 zsf of residential floor area or 23,400 zsf of commercial floor area on the property. The site is therefore underbuilt relative to the maximum permitted FAR.

The project site is zoned C6-2A which allows a maximum building height of 120 feet, but since the project site is situated on an interior lot that contains a building with a street wall width of less than 45 feet, the height of any building located on that lot is limited to the width of the street that the streetwall fronts up to a maximum of 100 feet pursuant to ZR Section 23-692 ("Height limitations for narrow buildings or enlargements"). Since White Street has a width of 50 feet, the effective height limit for the project site is 50 feet. However, this provision is further modified by the provisions of ZR Section 23-692 which would limit the building height to that of the lowest adjacent building, that being the 67-foot height of the synagogue on Block 175, Lot 22. The building's current 76'-2" height does not comply with this zoning requirement. The existing building is legally non-compliant based on the fact that the building was converted from office/storage to office/residential in 1986 (see drawings in the Architectural Plans Appendix). Article 1, Chapter 5 of the Zoning Resolution allows for existing non-compliances to remain when commercial buildings are converted to residential occupancy.

The Department of City Planning (DCP) and the New York City Council have approved two zoning text amendments that have implications for actions currently undergoing environmental review: the Zoning for Quality and Affordability (ZQA) text amendment and the Mandatory Inclusionary Housing (MIH) text amendment. The ZQA text amendment affects residential developments in community districts throughout the city, while the MIH text amendment only affects residential developments in areas that are designated for inclusionary housing. Because this application is for a special permit where no significant amount of residential floor area is being added (approximately 7,531 gsf (6,375 zsf) of residential floor area to be added), and is located in a C6-2A district, these text amendments would not apply to this project.

Study Area

Most of the area within 400 feet of the project site shares the property's C6-2A zoning. Therefore, the zoning use and bulk provisions relevant to the project site also apply to this portion of the project study area.

Several other zoning districts are located within 400 feet of the site. A C6-4A district is mapped to the east of the site across Franklin Place. The Special Tribeca Mixed-Use District is mapped within 400 feet of the project site to the north across Walker Street and is also located west of the site west of the intersection of Church Street and the Avenue of the Americas.

The C6-4A district shares the basic characteristics of the property's C6-2A zoning described above. However, the C6-4A district permits a higher maximum commercial and residential FAR of 10.0. The district has a residential district equivalent of the R10A district and the maximum residential FAR of 10.0 can be increased to 12.0 with inclusionary housing. The C6-4A district is a contextual district with a maximum building height of 185 feet on a narrow street such as White Street.

The Special Tribeca Mixed Use District (TMU) was originally enacted in 1976 as the Lower Manhattan Mixed Use District to permit limited residential development in an otherwise industrial 62-block area in Manhattan within the triangle below Canal Street, west of Broadway. Revised in 1995 and in 2010, the underlying zoning throughout the district is now commercial but unique provisions limit the size of ground floor retail uses and hotels. New contextual mixed buildings house a growing residential community while special rules encourage a mix of uses by allowing light industries.

PUBLIC POLICY

Project Site

The project site is located within the LPC designated Tribeca East Historic District. The Tribeca East Historic District is defined by ornate store and loft buildings which reflect the district's role as the center for dry goods and related businesses in New York City. The project site is therefore subject to New York City landmarks preservation regulations.

The site is not located within the City's Coastal Zone Boundary and is therefore not subject to the provisions of the New York City Waterfront Revitalization Program. The project site is not covered by any 197-a or other community plans, and it is not within an urban renewal area and is therefore not subject to the provisions of an urban renewal plan.

Study Area

Portions of the land use study area surrounding the project site are also subject to the requirements of public policy documents. Most of the 400-foot radius project study area to the north, south, and west of the project site is located within the LPC designated Tribeca East Historic District. Seven individually LPC designated historic properties are located within 400 feet of the project site. The site is bordered by the LPC designated individual landmark Condict Store at 55 White Street to the east. The Woods Mercantile Buildings at 46 and 50 White Street are located diagonally across White Street from the project site to the northwest. The Kitchen, Montross and Wilcox Store at 85 Leonard Street; 87 Leonard Street; the James White Building at

361 Broadway; and the 359 Broadway Building are located on the block south of the project site. The study area is therefore generally subject to the provisions of the New York City Landmarks Law.

Although the project site is not located within the City's Coastal Zone Boundary, the Coastal Zone is mapped within 400 feet of the project site in the area north of Walker Street and west of Church Street. Therefore, this area is subject to the City's Waterfront Revitalization Program.

The 400-foot radius project study area east of Broadway and north of White Street is located within the Chinatown Business Improvement District (BID). The Chinatown BID covers an approximately 0.1 square mile area located roughly between White, Worth, and Madison Streets to the south, Broome Street to the north, Broadway to the west, and Allen Street to the east. Under the BID program, property owners and taxpayers of record are charged a special assessment to generate funds to support activities including street maintenance services that include street sweeping, garbage bagging, power washing where needed, and the maintenance of lampposts and street furniture seven days a week; holiday lighting; and advocacy for fair share of government services for Chinatown.

The Chinatown/Lower East Side Empire Zone is located within 400 feet of the project site generally to the east of Broadway. This Empire Zone extends from Broadway to the East River south of East Houston Street and north of Chambers, Pearl, and Catherine Streets. The Empire Zone program is a New York State program that offers special incentives to encourage economic and community development, business investment, and job creation. Businesses certified by the Empire Zone program located within the Chinatown/Lower East Side Empire Zone are eligible to receive tax credits and benefits.

No other public policy programs apply to the project study area.

THE FUTURE WITHOUT THE PROJECT

Land Use

Under the No-Action Scenario for the Project Build Year of 2020, new mezzanine floor area would be added to the existing building on the project site. A new 2,506 gsf mezzanine (floor 1A) would be constructed between the existing first and second floors of the building in the absence of the Proposed Action. Floor 1A would be used as a storage room for the residential unit on the second floor of the building. Therefore, the existing 24,375 gsf vacant building would be increased in size to 26,881 gsf and would contain 13,260 gsf of residential floor area for four residential dwelling units and 13,621 gsf of commercial floor area. The building would be re-occupied by residential and commercial uses. The sub-cellar and cellar of the building would contain office space and residential amenities such as storage and gym; the first floor would contain the residential lobby and office space; and floors 1a, 2, 3, 4, and 5 would be occupied by residential space. The existing 76'-2" height of the building would not change. With the exception of the new floor 1A, no additional as-of-right new development would occur as the existing building footprint and/or height would need to be increased to accommodate additional floor area.

Under the No-Action scenario, the building would be renovated as approved by the DOB and described below. All items listed below would occur in the absence of the proposed project and would be completed before the analysis year, 2020, absent the Proposed Action.

- 1. DOB Job #140681180, 140681233 & 140681215 for new sidewalk shed, scaffolding, and fence during construction. (This item is completed and the new sidewalk shed, scaffolding, and fence will remain in place until construction is completed.)
- 2. DOB Job #121788048 for removal of interior partitions, dropped ceilings, interior doors, walls, flooring, plumbing and mechanical. (This item is 95% complete pending the existing roof. Completion is expected by May 2018.)
- 3. DOB Job #122913062 for interior renovation of existing 5 story building including new HVAC, plumbing, elevator, sprinkler and standpipe, new windows and storefront within the existing building envelope as further detailed below. (This item is 30% complete. Completion is expected in late 2018. Item 3 will be amended to become the DOB application that requires the proposed action.)
 - Sub-cellar excavation to accommodate a new elevator and provide additional headroom in the sub-cellar;
 - New elevator and 2 stairs cores sub-cellar to roof bulkhead;
 - New first floor White Street storefront remove existing infill and replace infill with new building entry locations for first floor residential and commercial spaces (restore the storefront to its original 19th Century appearance by exposing and restoring the original cast iron columns that are covered in stucco and terra-cotta brick);
 - New first floor mezzanine between existing first and second floors (floor 1A);
 - New rear façade windows and doors;
 - At the rear façade raise the existing first floor parapet five feet higher than the existing adjacent west retaining wall parapet; and
 - Plumbing, mechanical, sprinkler, and standpipe work associated with the above work.

Study Area

No development plans are known to exist for the 400-foot radius project study area by the project build year of 2020. No recent new development projects (filed in 2010 or later) have been identified for the 400-foot radius project study area based on a review of the CEQR listings of the NYC Department of City Planning's (DCP) Land Use & CEQR Application Tracking System (LUCATS) for Manhattan Community District 1. The study area is fully developed primarily with buildings of substantial size where limited new development potential exists.

Zoning and Public Policy

The 3,900 square foot site is currently developed with 16,965 zsf of total floor area which represents an FAR of 4.35. With the addition of the 2,327 zsf mezzanine (floor 1A¹) discussed

¹ Floor 1A would be considered a Use Group 6 storage use since the proposed special permit is required to provide light and air at the back windows to allow for a residential occupancy.

under the land use discussion above, the total floor area would be 19,103 zsf which would represent an FAR of 4.90. The new 13,073 zsf of residential floor area on the site would represent an FAR of 3.35 and the 6,030 zsf of commercial floor area would represent an FAR of 1.55. The project site's C6-2A zoning permits a maximum base residential FAR of 6.02 and a maximum base commercial FAR of 6.0 which would allow up to 23,478 zsf of residential floor area and 23,400 zsf of commercial floor area on the property. The existing building has a rear yard of 6 feet up to a height of 38'-9" and then has a 15-foot rear yard.

With the exception of the new mezzanine (floor 1A), no additional as-of-right new development would occur as the existing building footprint and/or height would need to be increased to accommodate additional floor area. The building footprint could not be enlarged as it would not comply with the requirement that legally required windows be located at least 30 feet from a wall, rear lot line or side lot line. As the maximum permitted height on the site is 67 feet and the existing building is 76'-2" in height, no additional building height would be permitted.

Based on a review of the CEQR listings of the DCP's LUCATS list for Manhattan Community District 1, no rezonings are proposed for the 400-foot radius project study area by the project build year of 2020. In addition, the DCP website does not indicate any proposed changes to the zoning districts and zoning regulations or to any public policy documents relating to the project site or the surrounding study area in the near future.

THE FUTURE WITH THE PROJECT

Land Use

The With-Action RWCDS for the Project Build Year of 2020 would entail the construction of a two-story vertical enlargement to the existing five-story mixed-use building on the project site, resulting in a building that rises to a height of 100′-8″ with a 10-foot front setback at the sixth floor and a 12-foot front setback at the seventh floor at the maximum building base height of 85 feet. The proposed materials for the north and south walls of the addition would be metal and glass while the proposed material for the east and west walls of the addition would be stucco. The proposed addition would contain approximately 5,025 gsf of residential floor area. The proposed sixth and seventh floor additions would have 20-foot rear yards. A balcony is proposed to extend 3′-8″ into the rear yard at the seventh floor. The Applicant proposes to raise the west wall of the existing building to a height varying from 3′-6″ to 4′-6″ for a depth of 40 feet to lessen the visual impact of the addition from White Street.

As part of the Special Permit application, the Applicant also proposes to remove the fire escape on the façade of the building; clean and make all necessary repairs to the stone face of the building; replace all 24 front façade windows from the second through fifth floors with windows that match historic profiles of 19th century windows; and restore the fire shutters of the building.

A 2,506 gsf mezzanine (floor 1A) would be constructed between the existing first and second floors of the building in the absence of the Proposed Action. In order to construct the proposed floor 1A, the Applicant proposes to raise the existing rear first floor roof parapet by five feet, which would also occur in the absence of the Proposed Action. Although floor 1A would be constructed in the future without the action, the Special Permit is needed to provide legally required light and air per ZR Section 23-861 for the bedrooms that would be created at the rear

of the mezzanine. (Under the No-Action Scenario, floor 1A would be used as a storage room for the residential unit on the second floor of the building.) The proposed development would contain one residential unit per floor on floors 1a, 2, 3, 4, and 5, and a duplex unit on floors 6 and 7 for a total of 6 dwelling units.

An LPC Restrictive Declaration will be recorded on the property which includes a continuing maintenance plan designed to ensure that the subject building will be preserved in a sound first-class condition in perpetuity. This obligation includes a thorough inspection of the building every five years and the preparation of an existing conditions report that shall be submitted to the LPC. All work identified in the existing conditions report as necessary to maintain this building in a sound, first-class condition must be expeditiously undertaken. See Historic and Cultural Resources Appendix.

The CPC findings per ZR 74-711 as related to land use include the following (see also the Discussion of Findings filed as part of the zoning application):

ZR 74-711

Landmark preservation in all districts

In all districts, for zoning lots containing a landmark designated by the Landmarks Preservation Commission, or for zoning lots with existing buildings located within Historic Districts designated by the Landmarks Preservation Commission, the City Planning Commission may permit modification of the #use# and #bulk# regulations, except floor area ratio regulations, provided that:

- (b) In order to grant a special permit, the City Planning Commission shall find that:
 - (1) Such bulk modifications shall have minimal adverse effects on the structures or #open space# in the vicinity in terms of scale, location and access to light and air; and

The proposed development is an existing five-story plus cellar and sub-cellar building in the Tribeca East Historic District. The existing building is underbuilt, 39 feet wide and rises to a height of 76.14 feet. Due to the restrictions of ZR 23-692 (*Maximum permitted height for narrow buildings*), the existing building does not qualify for an as-of-right vertical enlargement of any dimension. The proposed development would require a waiver of the maximum height limit of 50 feet (ZR 23-692) to permit the construction of new sixth and seventh floors with a height of 92.63 feet and a small penthouse with a proposed building height of 100.63 feet. While taller than the existing building height of 76.14 feet, the sixth and seventh floors would be slightly higher than the existing building height by 16.49 feet. The proposed sixth floor, seventh floor and penthouse would be setback sufficiently from White Street and the northwestern roof parapet wall would be raised to 82.15 feet to avoid being visible from surrounding streets. The vertical two-story enlargement would add 6,185 zoning square feet to the existing 16,965 zoning square feet for a total of 23,150 zoning square feet.

Although most of the buildings on the block on which the proposed development is located are five-story buildings, several, including one of the buildings that abut the proposed development, are seven-story buildings. The building abutting the proposed development to the east, 55 White Street, is an individually designated landmark building. The existing building height of 55 White Street, excluding the building's water tower, is approximately 98.74 feet. The building abutting the proposed development to the west, 47-49 White Street a.k.a The Civic

Center Synagogue, is a contemporary, windowless, three story building with an irregular street wall built in 1967. The lot was once occupied by a six-story building built in 1909, subsequently demolished and replaced with the existing 67-foot tall building. Another seven-story building, 43-45 White Street, is 50 feet to the west of the proposed development. Built in 1909 as a seven-story manufacturing building, it was converted to apartments in 2008. 43-45 White Street is approximately 93 feet tall excluding roof bulkheads and its Mansard roof line at the top two floors are setback less than 5 feet from the street wall.

Other seven-story buildings on the same block to the southwest of the proposed development include 80 and 86 Franklin Street. 80 and 86 Franklin Street have building heights of approximately 90 feet and 84 feet respectively.

Across the street on the north side of White Street and to the west are several buildings that were originally built as five- story manufacturing buildings, later converted to residential apartments and vertically enlarged to become seven story buildings. 42, 46 and 48-50 White Street each have setback sixth and seventh stories and building heights of approximately 92 feet.

The placement of the proposed floors and the proposed development will ensure it has the least impact on the light and air to neighboring buildings. The proposed floors will rise to nearly the identical height as the abutting building to the east blocking no legal windows or the view west from terraces. The proposal to raise the western roof parapet to conceal the vertical enlargement will enhance the view of 47-49 White Street from the west by creating a taller more uniform stucco wall improving the backdrop for the unique curved form of the building's front façade and front yard. The absence of any windows at 47-49 White Street will guarantee that access to light and air to the West of the proposed development will not be affected. Thus, the proposed vertical enlargement is unlikely to have any negative impact on current conditions.

The proposed waiver of ZR 23-662 (*Maximum Height and Setback Regulations*) for the requirements of the minimum setback at the maximum building base height of 85 feet to be at least 15 feet would also not have an adverse effect on the surrounding structures or open space in the vicinity in terms of scale, location, and access to light and air. There would be a 10-foot front setback from White Street at the sixth floor and a 12-foot front setback from White Street at the seventh floor at the maximum building base height of 85 feet. In fact, the setback would occur below the existing building roof height of 76.14 feet where the proposed sixth floor height is 70.91 feet. The proposed penthouse would be setback 34 feet from White Street and rises an additional 8 feet to a total proposed building height of 100.63 feet. The White Street block between Broadway and Church Streets has at least five buildings with setbacks above their buildings' street wall of 20 feet or less at an average of 76 feet such as building numbers 42, 43-45, 46, 48-50 and 55 White Street.

The proposed waivers of ZR 23-861 & 23-851(b) (*Minimum Required Distance Between Legally Required Windows and Lot Line & Minimum Dimension of Inner Courtyard*) at the new floor 1A and the new sixth and seventh floor addition setback from the rear property line and the existing five story rear wall is consistent with the rear setbacks and heights of existing abutting buildings. A majority of the buildings on the block share the same existing conditions for light and air at the rear of the building as the proposed development. On the lower floors of all the buildings on the interior of the block there exist shallow inner courts and rear yards ranging

from 5 feet to 15 feet from the sub-cellar through the fifth floors. This is a result of the majority of buildings in the vicinity having been converted from non-residential to residential uses under ZR 15-10 (*Residential Conversions Within Existing Buildings*) and the existing windows of these adjacent non-complying courts and rear yards are a source of legal light and air for the surrounding buildings that will not be negatively affected by the addition of 5 new lot line windows between the existing first and second floor rear windows.

The proposal to raise the existing rear skylight to create windows for the new floor 1A and parapet to 42.25 feet from the courtyard ground level is consistent with other adjacent rear walls at this level. The ground level courtyards and yards at the rear of the block are an average of -17.28 feet lower than the White Street curb level elevation. To the east, the rear western wall of 55 White Street at this location stands five stories and 97.28 feet tall from rear courtyard ground level. 47-49 White Street to the west has a two-story rear yard structure that rises 32.28 feet higher than the courtyard ground level. Additionally, 80, 82 and 84 Franklin Street have vertically enlarged their rear yard skylights to similar heights as 47-49 White Street and added windows to the rear walls of these structures.

At the proposed sixth and seventh floors of the proposed development the rear inner court would be 20 feet deep. The adjacent buildings' existing inner court depths vary, but are less than the required minimum depth of 30 feet. To the east, 55 White Street has a 5'-6" deep inner court at floors sub-cellar through fifth and 12-foot depth at the sixth floor. To the southeast, 74 Franklin Street has an existing inner court that is 5 feet deep from the sub cellar through fourth floors and 18 feet deep at the fifth floor. Directly to the south, 76 Franklin Street has an existing 13-foot deep inner court from the second through fifth floors.

In addition to the enlargement, major work will be done to restore the building's exterior to first-class condition and all the historical architectural elements to their original appearance. This work includes the removal of a labor law fire-escape, a top-to-bottom restoration of the marble façade, reconstruction of the original cast iron columns, repair of all the rear façade fire shutters and the installation of five bays of storefront infill.

This proposed development meets the criteria of ZR 74-711, and it is therefore appropriate that the City Planning Commission grant the proposed special permit application requesting bulk modifications allowing the construction of two additional floors on the roof of the existing five story building.

(2) Such use modification shall have minimal adverse effects on the conforming uses within the building and in the surrounding areas.

No use modifications are being requested as part of this application. Not applicable.

Conclusion

As set forth above, this application satisfies the requirements of ZR Section 74-711, and the applicant requests that the City Planning Commission approve the requested special permit to allow the construction of a sixth, seventh and penthouse floor and increasing the degree of inner court non-compliance on the building at 51-53 White Street.

In addition, the LPC Certificate of Appropriateness dated 12/29/2017 and included in the Historic and Cultural Resources Appendix states that the proposed plans for the new 6th and 7th floors relate harmoniously to the subject landmark building by limiting the overall height and setbacks of the additional floors and raising the existing west roof parapet wall to create a minimally visible vertical enlargement.

No adverse impact to land use patterns in the area is expected to arise as a result of the proposed project, and further assessment of land use is not warranted.

Zoning

The proposed action involves the request for a Special Permit pursuant to ZR Section 74-711 ("Landmark preservation in all districts") from the City Planning Commission (CPC), as further discussed below, to facilitate the construction of a two-story vertical enlargement to the existing five-story building on the project site. ZR Section 74-711 allows for modification of the use and bulk regulations (except floor area) in order to further the preservation of designated landmark buildings or buildings located within historic districts.

The Special Permit seeks to waive the height limitations of ZR Section 23-692 ("Height limitations for narrow buildings or enlargements"), the front setback requirements of ZR Section 23-662 ("Maximum height of buildings and setback regulations"), the required 30-foot distance between legally required windows and the rear lot line of ZR Section 23-861 ("General Regulations"), and the minimum required dimensions of the rear inner courts for the proposed floor 1A and the proposed sixth and seventh floors of ZR 23-861(b) ("Minimum dimensions of inner courts") to allow the proposed two-story addition to the existing five-story building on the site.

The City Planning Commission may, by Special Permit pursuant to Section 74-711, permit the modification of bulk regulations for zoning lots that are located within an LPC designated Historic District or that contain an LPC designated Individual Landmark. The project site is located within the LPC designated Tribeca East Historic District and is therefore eligible for the requested Special Permit.

The project site is zoned C6-2A which allows a maximum building height of 120 feet, but since the project site is situated on an interior lot that contains a building with a street wall width of less than 45 feet, the height of any building located on that lot is limited to the width of the street that the streetwall fronts up to a maximum of 100 feet pursuant to ZR Section 23-692 ("Height limitations for narrow buildings or enlargements"). Since White Street has a width of 50 feet, the effective height limit for the project site is 50 feet. However, this provision is further modified by the provisions of ZR Section 23-692 which would limit the building height to that of the lowest adjacent building, that being the 67-foot height of the synagogue on Block 175, Lot 22. A Special Permit is requested to waive the height limit to allow a total building height of 100'-8''.

ZR Section 23-662 ("Maximum height of building and setback requirements") requires a 15-foot setback no lower than 65 feet and no higher than 85 feet in a C6-2A zoning district. A Special Permit is requested to waive these requirements to allow the construction of a two-story vertical enlargement to the existing five-story building on the site with a 10-foot front setback at the

sixth floor and a 12-foot front setback at the seventh floor at the maximum building base height of 85 feet.

C6-2A zoning districts require a 30-foot rear yard but since the site is located 95.46 feet of the point of intersection of White Street and Franklin Place, no rear yards are required pursuant to ZR Section 23-541 (Within one hundred feet of corners). However, pursuant to ZR Section 23-861 ("General provisions"), all legally required windows must be located 30 feet from a wall, rear lot line or side lot line in a C6-2A zoning district. A Special Permit is requested to waive these requirements to allow the construction of a two-story vertical enlargement to the existing five-story building on the site with legally required windows that are located 20 feet from the rear lot line.

The existing five story building has an existing non-compliant inner court from the second to the fifth floor under ZR Section 15-10. ZR Section 23-851(b) ("Minimum dimensions of inner courts"), which describes the minimum dimensions of inner courts, must be waived because the open area between the building and the rear lot line is an inner court. At the rear of the site, a waiver of ZR Section 23-851(b) is required for the minimum required dimensions of inner courts at floor 1A and the sixth and seventh floors.

A 2,506 gsf mezzanine (floor 1A) would be constructed in the absence of the Proposed Action between the existing first and second floors of the building. Although floor 1A would be constructed in the future without the action, the Special Permit is needed to provide legally required light and air per ZR Section 23-861 for the bedrooms that would be created at the rear of floor 1A.

With the addition of 6,375 zsf (7,531 gsf) of residential floor area, comprised of the 2,331 zsf (2,506 gsf) floor 1A and the 4,494 zsf (5,025 gsf) enlargement minus 450 zsf (0 gsf) to accommodate a double height space² in the rear of the first floor, the building would contain 23,150 zsf (31,905 gsf) of total floor area, representing an FAR of 5.94 on the 3,900 sf lot. The 19,895 zsf (20,790 gsf) of proposed residential floor area on the site represents an FAR of 5.10 and the 3,255 zsf (11,115 gsf) of commercial floor area represents an FAR of 0.83. The project site's C6-2A zoning permits a maximum base residential FAR of 6.02 and a maximum base commercial FAR of 6.0 which would allow up to 23,478 zsf of residential floor area or 23,400 zsf of commercial floor area on the property. Following the proposed enlargement, the building would contain 31,905 gsf and 23,150 zsf of floor area and no additional floor area would be developed on the project site.

The CPC conditions per ZR 74-711 as related to zoning include the following (see also the Discussion of Conditions filed as part of the zoning application). The discussion of findings is provided in the Land Use section above.

13

² A double height space is an area above a floor that is double the normal floor-to-floor height with no floor, stairs, or other area on which to stand.

ZR 74-711

Landmark preservation in all districts

In all districts, for zoning lots containing a landmark designated by the Landmarks Preservation Commission, or for zoning lots with existing buildings located within Historic Districts designated by the Landmarks Preservation Commission, the City Planning Commission may permit modification of the use and bulk regulations, except floor area ratio regulations, provided that:

- (a) The following conditions are met:
 - (1) any application pursuant to this Section shall include a report from the Landmarks Preservation Commission stating that a program has been established for continuing maintenance that will result in the preservation of the subject #building# or #buildings#, and that such #use# or #bulk# modifications, or restorative work required under the continuing maintenance program, contributes to a preservation purpose;

This application includes a report from the LPC dated 12/22/17 stating that a program has been established for the continuing maintenance that will result in the preservation of the subject building, and further that the proposed restorative work required under the continuing maintenance program contributes to the preservation purpose. The continuing maintenance program is contained within a Restrictive Declaration entered into in accordance with the guidelines and specifications of the LPC.

(2) Any application pursuant to this Section shall include a Certificate of Appropriateness, other permit, or report from the Landmarks Preservation Commission stating that such #bulk# modifications relate harmoniously to the subject landmark #building# or #buildings# in the Historic District, as applicable; and...

A Certificate of Appropriateness from LPC dated 12/29/2017 is included in the Historic and Cultural Resources Appendix stating the proposed plans for new 6th and 7th floors relate harmoniously to the subject landmark building by limiting the overall height and setbacks of the additional floors and raising the existing west roof parapet wall to create a minimally visible vertical enlargement.

(3) The maximum number of dwelling units should be as set forth in Section 15-111 (Number of permitted dwelling units)

The project area is mapped within a C6-2A zoning district with an R8A residential equivalent. ZR Section 15-111 references ZR Section 23-20 which establishes a dwelling unit factor of 680 for R8A zoning districts. The maximum allowable maximum dwelling units for the proposed building is (23,478/680) = 34 dwelling units. 6 dwelling units are proposed for the development. The proposed 6 dwelling units is less than the maximum 34 dwelling units and therefore will be within the requirements of ZR Section 15-111 and 23-20.

Conclusions

The requested Special Permit is required in order to modify bulk regulations applicable to the building which is located within an LPC designated Historic District. The proposed action would meet all the required CPC conditions and findings as specified in the zoning application filed with this report.

As set forth above, this application satisfies the requirements of ZR Section 74-711, and the applicant requests that the City Planning Commission approve the requested special permit to allow the construction of a sixth, seventh and penthouse floor and increasing the degree of inner court non-compliance on the building at 51-53 White Street.

The proposed development would not result in significant adverse zoning impacts. The proposed residential occupancy of the rooftop addition would have the same residential occupancy as the residential floors in the building below. This use would be compatible with the existing occupancies in the immediately surrounding buildings. The bulk and form of the proposed building addition would also be compatible with surrounding development and would not result in adverse impacts related to access to light and air. The proposed action would not have a significant impact on the extent of conformity with the current zoning in the surrounding area, and it would not adversely affect the viability of conforming uses on nearby properties.

Potentially significant adverse impacts related to zoning are not expected to occur as a result of the proposed action, and further assessment of zoning is not warranted.

Public Policy

No adverse impacts to public policies would occur as a result of the proposed action as the proposed development would be compatible with the New York City landmarks preservation regulations applicable to the site and the immediately surrounding area (see the Historic and Cultural Resources section below).

The Landmarks Committee of Manhattan Community Board 1 has issued a favorable resolution for the proposed renovation and two-story addition of the existing building at 51-53 White Street on October 25th, 2016, which was required prior to the LPC public hearing. LPC voted to approve the proposal at their December 6, 2016 meeting and will issue a report to the CPC. LPC issued a Certificate of Appropriateness (COFA-19-11467) dated December 29, 2017 in conjunction with Certificate of No Effect 19-1576, issued June 5, 2017, and Modification of Use 19-11468, issued December 22, 2017. The COFA permit will remain in effect until December 6, 2022.

No potentially significant adverse impacts related to public policy are anticipated to occur as a result of the proposed action, and further assessment of public policy is not warranted.

8. SHADOWS

Introduction

A preliminary shadows screening is relevant for the proposed action as the project would result in the construction of rooftop additions to the existing five-story building on the property which is located within the LPC designated Tribeca East Historic District. The proposed action would also occur within the vicinity of several individually designated historic resources. Seven individually LPC designated historic properties are located within 400 feet of the project site and within the maximum shadow radius of the proposed building enlargement of 432.87 feet as further discussed below. The site is bordered by the LPC designated individual landmark Condict Store at 55 White Street to the east. The Woods Mercantile Buildings at 46 and 50 White Street are located diagonally across White Street from the project site to the northwest. The Kitchen, Montross and Wilcox Store at 85 Leonard Street; 87 Leonard Street; the James White Building at 361 Broadway; and the 359 Broadway Building are located on the block south of the project site.

The existing five-story building on the property is 76'-2" in height and 80'-2" with the parapet wall. With the proposed rooftop additions, the building would contain seven stories and reach a height of 100'-8". Based on 2014 *CEQR Technical Manual* criteria, the longest shadow that any building or structure would cast during the year (except within an hour and a half of sunrise or sunset which is not deemed to be of concern) is 4.3 times its height. Applying the 4.3 factor to the current building height of 80'-2" results in a maximum shadow distance of approximately 344.69 feet. With the proposed additions, including the building's bulkhead, the 100'-8" building would cast a maximum shadow of approximately 432.87 feet.

A shadows assessment would be required if the surrounding Historic District and/or the individually designated resources within the vicinity of the site contain architectural resources that are sunlight-sensitive and could be adversely affected by shadows cast by the proposed building additions. There are no other potentially shadow sensitive resources such as open space and recreation areas within the vicinity of the project site that could be affected by shadows from the proposed development. Potentially sunlight-sensitive architectural resources include the following:

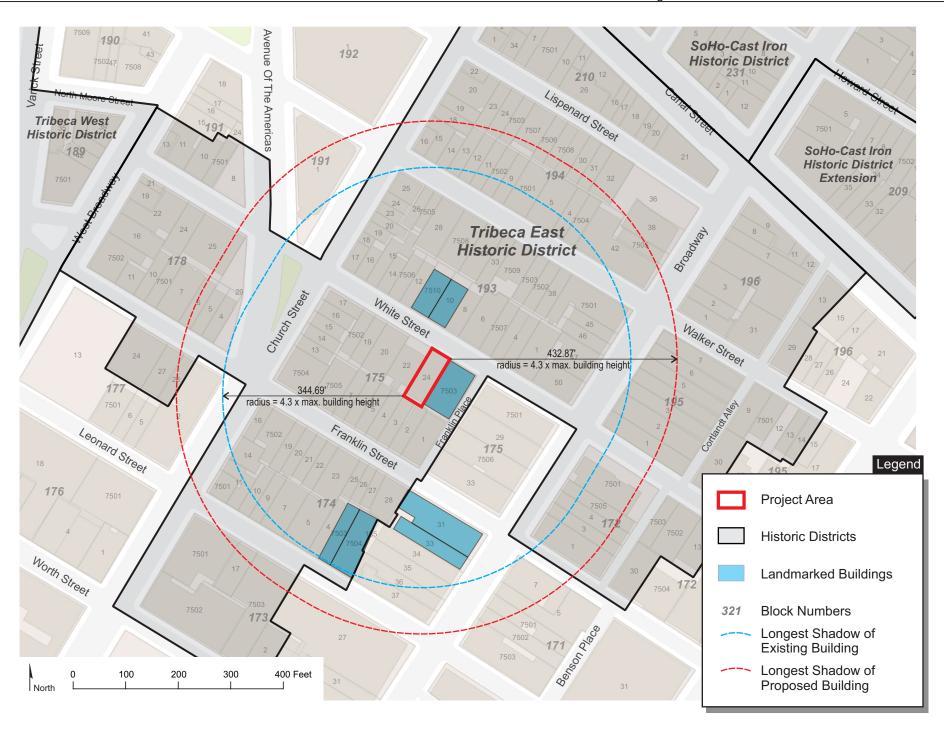
- Buildings containing design elements that are part of a recognized architectural style that depends on the contrast between light and dark design elements.
- Buildings distinguished by elaborate, highly carved ornamentation.
- Buildings with stained glass windows.
- Exterior materials and color that depend on direct sunlight for visual character.
- Historic landscapes, such as scenic landmarks including vegetation recognized as an historic feature of the landscape.
- Features in structures where the effect of direct sunlight is described as playing a significant role in the structure's significance as an historic landmark.

In a letter dated 2/14/18, the LPC determined that the proposed project would not result in any shadows impacts (see Historic and Cultural Resources Appendix). Therefore, there would be no

shadows impacts to the seven individually designated historic resources noted above or any other resources within the surrounding Tribeca East Historic District. See Tier 1 Shadow Screening Assessment/Historic Districts and Landmarks Map which follows.

It should also be noted that the proposed rooftop additions at the project site would not cast any new shadows on the Condict Store at 55 White Street as this building is directly adjacent to the project site to the east and any new shadows would not fall on the façade of this building. New shadows would not be cast on the designated facades of the buildings at 85 Leonard Street, 87 Leonard Street, 361 Broadway, or 359 Broadway as these building facades face away from the direction of any new shadows that would be cast by the proposed building additions. These buildings are also located to the south of the project site in an area where shadows would not be cast by the proposed additions and even if shadows were to be cast in this direction, they would be blocked by intervening development consisting of 5- and 6-story structures. Although shadows could be cast by the proposed building additions on the buildings at 46 and 50 White Street located diagonally across White Street from the project site to the northwest, the existing 5-story building on the project site already casts the maximum shadow possible on these two 5-story structures. No other shadow sensitive resources exist within the surrounding Tribeca East Historic District.

Based on the above it is concluded that any additional shadows cast by the proposed building additions would not result in any significant adverse shadows impacts to historic resources. Therefore, no further assessment of shadows is needed for the project.



9. HISTORIC AND CULTURAL RESOURCES

EXISTING CONDITIONS

Project Site

The project site at 51-53 White Street (Block 175, Lot 24) consists of an interior lot located along the southerly side of White Street on a block that is bounded by White Street to the north, Franklin Place to the east, Franklin Street to the south, and Church Street to the west in the Tribeca neighborhood of Manhattan. The property is located within the LPC designated Tribeca East Historic District and is adjacent to the individually designated Condict Store landmark at 55 White Street to the east.

The property consists of a 3,900 square foot rectangular shaped lot with 39' of frontage along the south side of White Street between Church Street and Broadway and a depth of 100'. The property is developed with a five-story, cellar, and sub-cellar vacant building which was constructed in 1857-58. The existing 24,375 gross square foot (gsf) building rises to a height of 76'-2" and contains 13,260 gsf of residential floor area and 11,115 gsf of commercial floor area. The existing building has a rear yard of 6 feet up to a height of 38'-9" and then has a 15-foot rear yard.

The building, which became vacant in April 2016, was previously occupied by Use Group (UG) 6 commercial office space and accessory storage on the building's first, cellar, and sub-cellar floors, and by 12 units of UG 2 residential space on the building's second through fifth floors. The second through fifth floors of the building were converted to Class A apartments as-of-right in 1984 but no Certificate of Occupancy was issued for residential use in connection with that job application.

The Tribeca East Historic District Designation Report describes 51-53 White Street as follows:

This five-story store and loft building, approximately thirty-nine feet wide and 100 feet deep, is located on the south side of White Street, in the middle of the block between Church Street and Broadway. It was constructed in 1857-58 for Daniel and A.C. Kingsland, prosperous New York merchants who owned other property in the area. The building is faced in marble above the first story and has six bays of window openings which have elaborate window hoods and sills, a treatment typical of the Italianate style. Some of the windows retain historic double-hung wood sash. The facade is capped by a stone and metal cornice. At the first story, the original cast-iron storefront cornice is visible; other historic cast-iron storefront elements may survive behind the current stucco surface. An historic fire escape fronts the two center bays.

The present building replaced two structures, one of which was a masonry store building. It continues in a long tradition of housing textile and dry goods firms.

Study Area

The project site is located near the center of the Tribeca East Historic District. The Tribeca East Historic District is bordered by Canal Street on the north, Worth Street on the south, West Broadway and Church Street on the west, and an area west of Lafayette Street on the east. Seven individually LPC designated historic properties are located within 400 feet of the project site. The

site is bordered by the LPC designated individual landmark Condict Store at 55 White Street to the east. The Woods Mercantile Buildings at 46 and 50 White Street are located diagonally across White Street from the project site to the northwest. The Kitchen, Montross and Wilcox Store at 85 Leonard Street; 87 Leonard Street; the James White Building at 361 Broadway; and the 359 Broadway Building are located on the block south of the project site. The Tribeca East Historic District and the seven individually designated resources are illustrated in the Historic District Landmarked Building Map which follows. A brief discussion of these Districts and properties follows below.

<u>Tribeca East Historic District</u> – The District is bordered by Canal Street on the north, Worth Street on the south, West Broadway and Church Street on the west, and an area west of Lafayette Street on the east. The LPC Designation Report (December 8, 1992) contains the following statements about the District (excerpted as most relevant to the area of the project site):

The Tribeca East Historic District encompasses 197 buildings and four undeveloped lots. While many of the district's cast-iron and masonry commercial buildings were erected beginning at mid-nineteenth century and continuing into the early twentieth century, when the dry goods district was located in this area, later buildings in the district -- office buildings and banks -- also served the textile trade. The Tribeca East Historic District has a distinct and special character within the larger Tribeca area defined by its many blockfronts of ornate store and loft buildings which reflect the district's role as the center for dry goods and related businesses in New York City. The many store and loft buildings, which now define this district, were characterized by nineteenth-century critics as palatial and substantial, enabling New York "to vie with the greatest continental cities of Europe." These buildings have trabeated cast-iron storefronts, many of which retain such historic elements as paneled and glazed wood doors, wood-framed transoms, show windows, roll-down shutters, and stepped vaults. The upper facades are faced with highquality materials, such as marble, sandstone, brick, or cast iron, and terminated by prollinent cornices. Multiple signbands and fire escapes were often attached to these facades. Within the district, there is a significant number of buildings with cast-iron facades. The side streets of the district extending between Broadway and Church Street, which are filled with nineteenth-century store and loft buildings, form exceptionally strong streetscapes. Twentieth-century development patterns have bounded this area by Worth Street on the south and Canal Street on the north, helping to reinforce the district's distinct sense of place. The long expanse of White Street within the district contains buildings which represent the full historical context of the area -- a few early nineteenth century dwellings converted at mid-century for commercial use, many five- and six-story store and loft buildings in a variety of materials and mid-nineteenth- nineteenth-century styles, and a limited number of late-nineteenth-century structures.

<u>Condict Store Building (55 White Street)</u> - The LPC Designation Report (March 22, 1988) summarizes this building as follows:

Fifty-five White Street was commissioned in 1861 by cousins John Eliot and Samuel L Condict as a store and warehouse for their saddlery business. The building was designed by John Kellum, one of the most important commercial architects of the mid-nineteenth century, whose many buildings had a strong impact on the redevelopment of the Lower Broadway area as a thriving commercial center. Kellum was also a major figure in the

development and design of cast-iron architecture. Daniel D. Badger, the iron founder who fabricated the building's facade, was second only to James Bogardus in his importance to the promotion and manufacture of this distinctively American building material and methods of construction. The building has an especially noteworthy example of the so-called "sperm candle" facade, characterized by double-height arcades with tall and slender columns which reminded nineteenth century observers of candles made from sperm whale oil. Although this type of facade, with its emphasis on verticality, light and openness, seems particularly suited to the structural properties of cast iron, it was also employed for contemporary marble facades, which apparently imitate, in traditional materials, an innovation. Only a handful of these "sperm candle" designs, which seem to be indigenous to New York, now survive. Fifty-five White Street is the largest, one of the finest, and unique in that the facade is continued in a one-bay return on the Franklin Place side elevation.

<u>Woods Mercantile Buildings (46 and 50 White Street)</u> – The LPC Designation Report (September 11, 1979) summarizes this building as follows:

The Woods Mercantile Buildings at Nos. 46-50 White Street are handsome examples of mid-19th century commercial architecture. Built of marble with a cast-iron ground floor, these two buildings were designed as a single unit in a simplified style based on Renaissance architecture. They were erected in 1865 by Samuel and Abraham Wood as first class storehouses. The Commission finds that, among its important qualities, the Woods Mercantile Buildings are fine examples of the palazzo node of architecture which was based on Italian Renaissance prototypes, that the elegant simplicity and restraint of the facades indicate their original utilitarian function; and that they are representatives of a period of the city's history when White Street was part of the country's textile and dry goods center.

<u>Kitchen, Montross and Wilcox Store (85 Leonard Street)</u> - The LPC Designation Report (November 26, 1974) summarizes this building as follows:

The building at 85 Leonard Street is a fine example of cast-iron architecture and the only remaining building in New York City attributed to James Bogardus, self-described "inventor of cast-iron buildings". Built in 1860-61 on land owned by the estate of Thomas Swords, this is one of the later buildings by James Bogardus. The Commission further finds that, among its important qualities, the 85 Leonard Street Building is the last remaining building in New York City by James Bogardus, that it is one of the few extant buildings of cast iron designed in the so-called "sperm candle" style, a style which uses classical elements in combination with a non-classical emphasis on verticality, lightness, and openness, and that the fine quality and wealth of detail enhance the basic forms of the building and illustrate the desirability of cast iron as a building material in the 19th century.

<u>87 Leonard Street</u> – 87 Leonard Street is shown as an individual landmark on ZoLa however no LPC Designation Reports were found for this address. 87 Leonard Street adjoins 85 Leonard Street (discussed above) to the east.

<u>James White Building (361 Broadway)</u> – The LPC Designation Report (July 27, 1982) summarizes this building as follows:

No. 361 Broadway, built in 1881-1882 for James L. White, was designed by W. Wheeler Smith, a well respected architect active in New York during the last two decades of the nineteenth century. It was one of the last commercial buildings produced during the transformation of lower Broadway, beginning in the mid-nineteenth century, from a residential boulevard into the city's commercial center. One of Wheeler's few forays into the field of cast-iron architecture, No. 361 Broadway is also one of the small number of late (post-1880) cast-iron buildings in the city. Its elevations, composed of rows of columns supporting heavy entablatures, are adorned with some of the finest and most inventive cast-iron ornament anywhere in New York or the United States. Based on abstract floral forms, the ornamentation changes from floor to floor, providing No. 361 with two unusually handsome and richly varied facades, which make the building one of the most prominent surviving on lower Broadway. W. Wheeler Smith's building is one of the few late cast-iron designs in an area largely built up before the Civil War, one of the most prominent cast-iron buildings south of Canal Street, and one of the last 11 commercial palaces erected in lower Manhattan. It is also one of the largest remaining cast-iron structures in the city, one of the relatively few late, stylized designs in that medium, and, in fact, one of the handsomest cast-iron buildings in New York. A graceful and elegant design, No. 361 Broadway survives as a remarkable example of style adapted to material, and of one of the country's most extraordinary indigenous artistic developments: cast-iron architecture.

<u>359 Broadway Building (359 Broadway)</u> - The LPC Designation Report (October 16, 1990) summarizes this building as follows:

No. 359 Broadway, on the west side of Broadway between Leonard and Franklin Streets, is a distinguished early Italianate commercial building constructed in 1852, a time when this section of Broadway was the city's most prestigious shopping area, containing a number of fashionable daguerreotype studios. An important and unusual example of the Italianate style, this stone-fronted commercial building, with its distinctive and varied window openings and abundant ornament, is a blend of Italianate elements from several sources. The 359 Broadway Building has special historical significance because it was occupied by noted photographer Mathew B. Brady from 1853-59. Brady, one of the most important photographers in American history, was renowned for both his portraits and his numerous photographs of the Civil War which are still the primary visual document of that conflict. As the city expanded northward from the southern tip of Manhattan in the 1840s and 1850s, this area became a prosperous neighborhood of shops, saloons, and photographers devoted to serving the fashionable clientele that made Broadway the city's most distinguished promenade. Remarkably intact, No. 359 Broadway serves as a significant reminder of the area's glittering past as a premier shopping district and as a home to the studio of one of America's most noted nineteenth-century photographers, Mathew Brady.

FUTURE NO-ACTION CONDITIONS

Project Site

In the future without the action, a new mezzanine floor would be added to the existing building on the project site. A new 2,506 gsf mezzanine (floor 1A) would be constructed between the existing first and second floors of the building and would be used as a storage room for the residential unit on the second floor of the building. Therefore, the existing 24,375 gsf vacant building would be increased in size to 26,881 gsf and would contain 13,260 gsf of residential floor area for four residential dwelling units and 13,621 gsf of commercial floor area. The building would also be re-occupied by residential and commercial uses. The existing 76'-2" height of the building would not change.

Under the No-Action scenario, the building would be renovated as approved by the DOB and described below. All items listed below would occur in the absence of the proposed project and would be completed before the analysis year, 2020, absent the Proposed Action.

- 1. DOB Job #140681180, 140681233 & 140681215 for new sidewalk shed, scaffolding, and fence during construction. (This item is completed and the new sidewalk shed, scaffolding, and fence will remain in place until construction is completed.)
- 2. DOB Job #121788048 for removal of interior partitions, dropped ceilings, interior doors, walls, flooring, plumbing and mechanical. (This item is 95% complete pending the existing roof. Completion is expected by May 2018.)
- 3. DOB Job #122913062 for interior renovation of existing 5 story building including new HVAC, plumbing, elevator, sprinkler and standpipe, new windows and storefront within the existing building envelope as further detailed below. (This item is 30% complete. Completion is expected in late 2018. Item 3 will be amended to become the DOB application that requires the proposed action.)
 - Sub-cellar excavation to accommodate a new elevator and provide additional headroom in the sub-cellar;
 - New elevator and 2 stairs cores sub-cellar to roof bulkhead;
 - New first floor White Street storefront remove existing infill and replace infill with new building entry locations for first floor residential and commercial spaces (restore the storefront to its original 19th Century appearance by exposing and restoring the original cast iron columns that are covered in stucco and terra-cotta brick);
 - New first floor mezzanine between existing first and second floors (floor 1A);
 - New rear façade windows and doors;
 - At the rear façade raise the existing first floor parapet five feet higher than the existing adjacent west retaining wall parapet; and
 - Plumbing, mechanical, sprinkler, and standpipe work associated with the above work.

Study Area

No development plans are known to exist for the 400-foot radius project study area by the project build year of 2020. No recent new development projects (filed in 2010 or later) have been

identified for the 400-foot radius project study area based on a review of the CEQR listings of the NYC Department of City Planning's (DCP) Land Use & CEQR Application Tracking System (LUCATS) for Manhattan Community District 1. The study area is fully developed primarily with buildings of substantial size where limited new development potential exists.

FUTURE WITH-ACTION CONDITIONS

The Applicant proposes to construct a two-story vertical enlargement to the existing five-story mixed-use building on the project site, resulting in a building that rises to a height of 100′-8″, including the building's bulkhead, with a 10-foot front setback at the sixth floor and a 12-foot front setback at the seventh floor at the maximum building base height of 85 feet. The proposed materials for the north and south walls of the addition would be metal and glass while the proposed material for the east and west walls of the addition would be stucco. The proposed addition would contain approximately 5,025 gsf of residential floor area. The proposed sixth and seventh floor additions would have 20-foot rear yards. A balcony is proposed to extend 3′-8″ into the rear yard at the seventh floor. The Applicant proposes to raise the west wall of the existing building to a height varying from 3′-6″ to 4′-6″ for a depth of 40 feet to lessen the visual impact of the addition from White Street. With the addition of 7,531 gsf of residential floor area, comprised of the 2,506 gsf mezzanine (floor 1A) and the 5,025 gsf enlargement, the building would contain 31,905 gsf of total floor area.

A 2,506 gsf mezzanine (floor 1A) would be constructed in the absence of the proposed action between the existing first and second floors of the building. The Special Permit is needed to provide legally required light and air per ZR Section 23-861 for the bedrooms that would be created at the rear of floor 1A. (Under the No-Action Scenario, floor 1A would be used as a storage room for the residential unit on the second floor of the building.) The proposed development would contain one residential unit per floor on floors 1a, 2, 3, 4, and 5, and a duplex unit on floors 6 and 7 for a total of 6 dwelling units.

As part of the Special Permit application, the Applicant also proposes to remove the fire escape on the façade of the building; clean and make all necessary repairs to the stone face of the building; replace all 24 front façade windows from the second through fifth floors with windows that match historic profiles of 19th century windows; and restore the fire shutters of the building.

An LPC Restrictive Declaration will be recorded on the property which includes a continuing maintenance plan designed to ensure that the subject building will be preserved in a sound first-class condition in perpetuity. This obligation includes a thorough inspection of the building every five years and the preparation of an existing conditions report that shall be submitted to the LPC. All work identified in the existing conditions report as necessary to maintain this building in a sound, first-class condition must be expeditiously undertaken. See Historic and Cultural Resources Appendix.

The Landmarks Committee of Manhattan Community Board 1 has issued a favorable resolution for the proposed renovation and two-story addition of the existing building at 51-53 White Street on October 25th, 2016, which was required prior to the LPC public hearing. LPC voted to approve the proposal at their December 6, 2016 meeting and will issue a report to the CPC. LPC issued a Certificate of Appropriateness (COFA-19-11467) dated December 29, 2017 in

conjunction with Certificate of No Effect 19-1576, issued June 5, 2017, and Modification of Use 19-11468, issued December 22, 2017. The COFA permit will remain in effect until December 6, 2022. See Historic and Cultural Resources Appendix.

Archaeological Resources

In the future without the project, sub-cellar excavation would occur to accommodate a new elevator and provide additional headroom in the sub-cellar. The extent of disturbance would be approximately 10 square feet and 50 cubic feet. No additional subsurface ground disturbance would occur to accommodate the proposed action. Therefore, the proposed action would not result in any significant adverse archaeological impacts on the project site.

As stated in the August 1, 2017 letter from Versatile Engineering (See Historic and Cultural Resources Appendix):

"In regards to the matters of "Subsurface Disturbance" in the sub-cellar of 51-53 White Street, the No-Action scenario has been approved and permitted by NYC DOB for identical levels and areas of "Subsurface Disturbance" as proposed under the With-Action scenario.

As such, the Applicant would construct the following within the existing building envelope on the project site without a special permit (as it is not required):

- Sub-cellar excavation to accommodate a new elevator and provide additional headroom in the sub-cellar;

As part of the NYC DOB approved and permitted Alteration 1 application number 122913062, the applicant has approved plans for a new 5-foot deep, approximately 10 square [foot] elevator pit and sump pump in the middle of the building's sub-cellar floor plan to accommodate for a new passenger elevator. There is no other ground disturbance proposed under this application. No further "Subsurface Disturbance" is proposed under NYC Department of City Planning application number."

In summary, in ground disturbance is occurring as-of-right pursuant to DOB approved plans, and there will be no additional in ground disturbance between the no-action and with-action scenarios.

Historic Resources

The proposed action would result in the construction of two additional floors on the roof of the existing building. The Applicant also proposes to remove the fire escape on the façade of the building; clean and make all necessary repairs to the stone face of the building; replace all 24 front façade windows from the second through fifth floors with windows that match historic profiles of 19th century windows; and restore the fire shutters of the building. As these additions constitute a change from the existing condition on the property and would be occurring within a designated Historic District and adjacent to and across the street from individually designated properties, potential impacts on historic resources would be of concern. The CEQR Technical Manual indicates that architectural resources should be surveyed and assessed if the proposed project would result in any of the conditions noted in italics below.

 New construction, demolition, or significant physical alteration to any building, structure, or object.

The proposed action would result in new construction on the project site. As stated above, the proposed project would result in the construction of two additional floors on the roof of the existing building. The Applicant also proposes to remove the fire escape on the façade of the building; clean and make all necessary repairs to the stone face of the building; replace all 24 front façade windows from the second through fifth floors with windows that match historic profiles of 19th century windows; and restore the fire shutters of the building.

As stated above, the Landmarks Committee of Manhattan Community Board 1 has issued a favorable resolution for the proposed renovation and two-story addition of the existing building at 51-53 White Street on October 25th, 2016, which was required prior to the LPC public hearing. LPC voted to approve the proposal at their December 6, 2016 meeting and will issue a report to the CPC. LPC issued a Certificate of Appropriateness (COFA-19-11467) dated December 29, 2017 in conjunction with Certificate of No Effect 19-1576, issued June 5, 2017, and Modification of Use 19-11468, issued December 22, 2017. The COFA permit will remain in effect until December 6, 2022.

Based on the above, it is concluded that the proposed action would have no significant adverse effect on the historic character of the property or the surrounding area.

• A change in scale, visual prominence, or visual context of any building, structure, or object or landscape feature. Visual prominence is generally the way in which a building, structure, object, or landscape feature is viewed. Visual context is the character of the surrounding built or natural environment. This may include the following: the architectural components of an area's buildings (e.g., height, scale, proportion, massing, fenestration, ground-floor configuration, style), streetscapes, skyline, landforms, vegetation, and openness to the sky.

The proposed project would entail the construction of a two-story vertical enlargement to the existing five-story building on the project site, resulting in a building that rises to a height of 100'-8", including the building's bulkhead, with a 10-foot front setback at the sixth floor and a 12-foot front setback at the seventh floor at the maximum building base height of 85 feet. The proposed materials for the north and south walls of the addition would be metal and glass while the proposed material for the east and west walls of the addition would be stucco. The proposed addition would contain approximately 5,025 gsf of residential floor area (this refers to the vertical enlargement only and not the total additional residential floor area). The proposed sixth and seventh floor additions would have 20-foot rear yards. A balcony is proposed to extend 3'-8" into the rear yard at the seventh floor. The Applicant proposes to raise the west wall of the existing building to a height varying from 3'-6" to 4'-6" for a depth of 40 feet to lessen the visual impact of the addition from White Street. The Applicant also proposes to remove the fire escape on the façade of the building; clean and make all necessary repairs to the stone face of the building; replace all 24 front façade windows from the second through fifth floors with windows that match historic profiles of 19th century windows; and restore the fire shutters of the building.

The project would result in a change in scale and visual prominence relative to the surrounding area. However, as stated above, the proposed setbacks and the raising of the west wall would limit the visual impact of the addition from White Street. The facade work including the removal of the fire escape, the replacement of the windows matching the historic profiles of 19th century windows, and the restoration of the fire shutters would bring the building into greater compliance with its surrounding architectural context.

As stated above, the Landmarks Committee of Manhattan Community Board 1 has issued a favorable resolution for the proposed renovation and two-story addition of the existing building at 51-53 White Street on October 25th, 2016, which was required prior to the LPC public hearing. LPC voted to approve the proposal at their December 6, 2016 meeting and will issue a report to the CPC. LPC issued a Certificate of Appropriateness (COFA-19-11467) dated December 29, 2017 in conjunction with Certificate of No Effect 19-1576, issued June 5, 2017, and Modification of Use 19-11468, issued December 22, 2017. The COFA permit will remain in effect until December 6, 2022. See Historic and Cultural Resources Appendix.

• Construction, including but not limited to, excavating vibration, subsidence, dewatering, and the possibility of falling objects.

LPC-approved construction procedures would be followed to protect other historic structures in the area from damage from vibration, subsidence, dewatering, or falling objects. Construction procedures would comply with the NYC Department of Buildings Memorandum Technical Policy and Procedure Notice # 10/88 (TPPN # 10/88) and with the site safety requirements of the 2008 NYC Building Code, as amended, which stipulate that certain procedures be followed for the avoidance of damage to historic and other structures resulting from construction. TPPN # 10/88 pertains to any structure which is a designated NYC Landmark or located within a historic district, or listed on the National Register of Historic Places and is contiguous to or within a lateral distance of 90 feet from a lot under development or alteration.

• Additions to or significant removal, grading, or replanting of significant historic landscape features.

Not applicable to the proposed action.

• Screening or elimination of publicly accessible views.

Not applicable to the proposed action.

• Introduction of significant new shadows or significant lengthening of the duration of existing shadows on an historic landscape or on an historic structure if the features that make the structure significant depend on sunlight.

On the basis of the CEQR Technical Manual criteria above, the project would not result in significant shadows impacts on historic resources. As discussed in the Shadows section above, the proposed building additions would reach a height of 100′-8″ which would cast a maximum shadow of approximately 432.87 feet. The Tribeca East Historic District and seven individually designated historic resources, including the Condict Store at 55 White Street, the Woods Mercantile Buildings at 46 and 50 White Street, the Kitchen, Montross

and Wilcox Store at 85 Leonard Street, 87 Leonard Street, the James White Building at 361 Broadway, and the 359 Broadway Building are located within the projected shadows radius of the project. However, it is not believed that these resources are shadow sensitive historic resources.

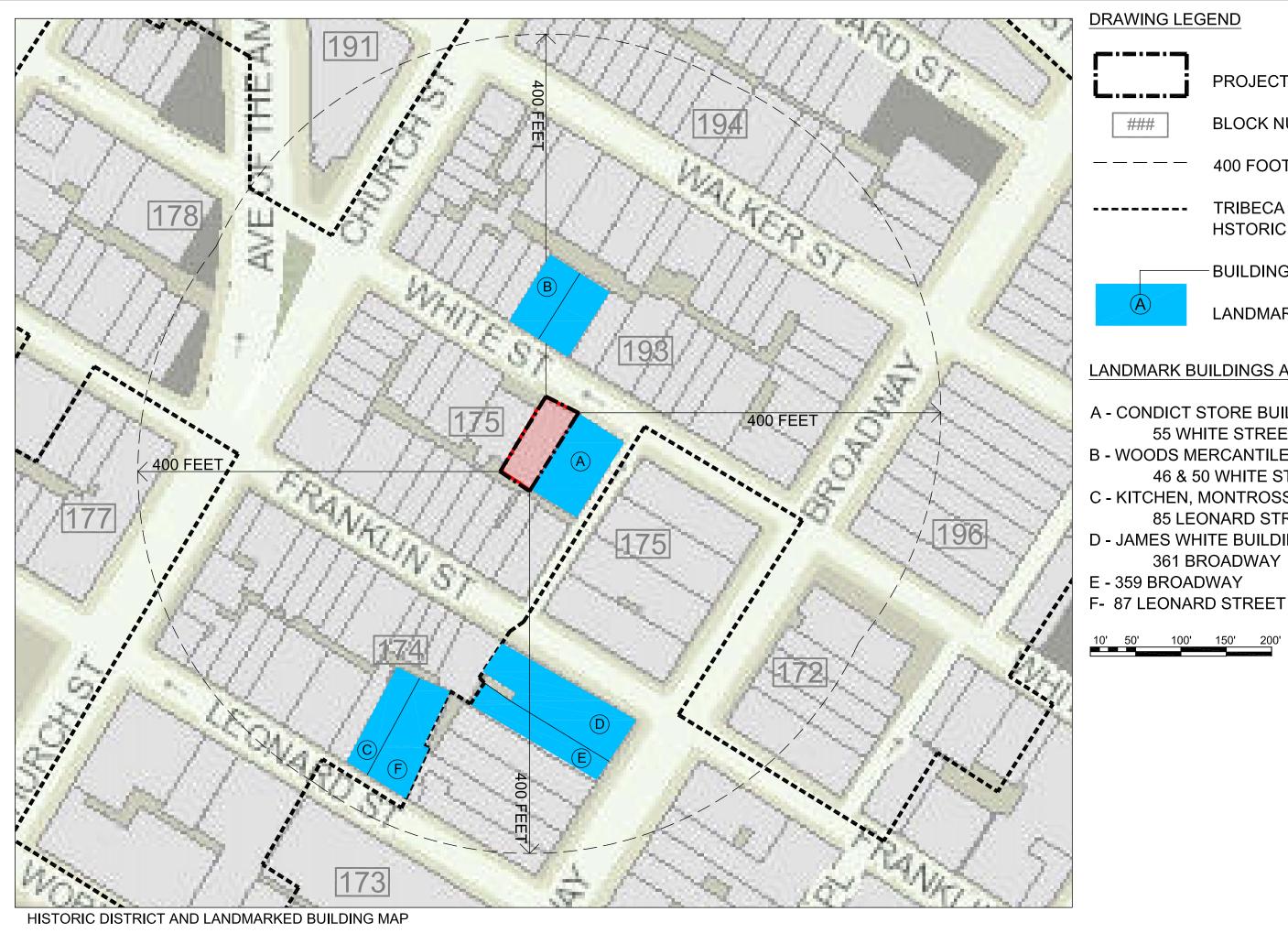
It should also be noted that the proposed rooftop additions at the project site would not cast any new shadows on the Condict Store at 55 White Street as this building is directly adjacent to the project site to the east and any new shadows would not fall on the façade of this building. New shadows would not be cast on the designated facades of the buildings at 85 Leonard Street, 87 Leonard Street, 361 Broadway, or 359 Broadway as these building facades face away from the direction of any new shadows that would be cast by the proposed building additions. These buildings are also located to the south of the project site in an area where shadows would not be cast by the proposed additions and even if shadows were to be cast in this direction, they would be blocked by intervening development consisting of 5- and 6-story structures. Although shadows could be cast by the proposed building additions on the buildings at 46 and 50 White Street located diagonally across White Street from the project site to the northwest, the existing 5-story building on the project site already casts the maximum shadow possible on these two 5-story structures.

In a letter dated 2/14/18, the LPC determined that the proposed project would not result in any shadows impacts (see Historic and Cultural Resources Appendix). Therefore, there would be no shadows impacts to the individually designated historic resources noted above or any other resources within the surrounding Tribeca East Historic District.

It is therefore concluded that the proposed project would not result in any significant adverse shadows impacts on historic resources.

Based on the above analysis, it is concluded that the proposed building additions and the other proposed changes to the exterior of the building on the project site would be compatible with the historic context and with the surrounding Tribeca East Historic District and the seven individually designated properties within 400 feet of the project site. No impact to these Historic Districts or individual historic properties would be expected as a result of the proposed action.

Based on the above analysis and the referenced LPC correspondence, it is concluded that the proposed project would not result in any significant adverse impacts to historic architectural or archaeological resources.



PROJECT AREA

BLOCK NUMBER

400 FOOT RADIUS

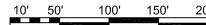
TRIBECA EAST **HSTORIC DISTRICT**

BUILDING ADDRESS

LANDMARK BUILDING

LANDMARK BUILDINGS ADDRESSES

- A CONDICT STORE BUILDING 55 WHITE STREET
- **B-WOODS MERCANTILE BUILDING** 46 & 50 WHITE STREET
- C KITCHEN, MONTROSS & WILCOX STORE **85 LEONARD STREET**
- **D JAMES WHITE BUILDINGS** 361 BROADWAY





51WHITE STREET MANHATTAN BLOCK: 175, LOT: 24 PROJECT ID P2017M0085

HISTORIC DISTRICTS AND LANDMARK BUILDINGS

10. URBAN DESIGN AND VISUAL RESOURCES

Introduction

An assessment of urban design is needed when a project may have effects on any of the elements that contribute to the pedestrian experience of public space. A preliminary assessment is appropriate when there is the potential for a pedestrian to observe, from the street level, a physical alteration beyond that allowed by existing zoning, including the following:

- 1. Projects that permit the modification of yard, height, and setback requirements;
- 2. Projects that result in an increase in built floor area beyond what would be allowed 'as-of-right' or in the future without the proposed project.

1. Yard, Height, and Setback Requirements

The proposed action would result in the modification of yard, height, and setback requirements as follows.

The Applicant requests a Special Permit pursuant to ZR Section 74-711 ("Landmarks preservation in all districts") to waive the height limitations of ZR Section 23-692 ("Height limitations for narrow buildings or enlargements"), the front setback requirements of ZR Section 23-662 ("Maximum height of buildings and setback regulations"), the required 30-foot distance between legally required windows and the rear lot line of ZR Section 23-861 ("General Regulations"), and the minimum required dimensions of the rear inner courts of ZR Section 23-851(b) ("Minimum dimensions of inner courts")³ to allow a two-story addition to the existing five-story building on the project site.

- Modification of Height Requirements The project site is zoned C6-2A which allows a maximum building height of 120 feet, but since the project site is situated on an interior lot that contains a building with a street wall width of less than 45 feet, the height of any building located on that lot is limited to the width of the street that the streetwall fronts up to a maximum of 100 feet pursuant to ZR Section 23-692 ("Height limitations for narrow buildings or enlargements"). Since White Street has a width of 50 feet, the effective height limit for the project site is 50 feet. However, this provision is further modified by the provisions of ZR Section 23-692 which would limit the building height to that of the lowest adjacent building, that being the 67-foot height of the synagogue on Block 175, Lot 22. A Special Permit is requested to waive the height limit to allow a total building height of 100′-8″ (including bulkhead).
- <u>Modification of Setback Requirements</u> Section 23-662 (Maximum height of building and setback requirements) requires a 15-foot setback no lower than 65 feet and no higher than 85 feet in a C6-2A zoning district. A Special Permit is requested to waive these requirements to allow the construction of a two-story vertical enlargement to the existing five-story building on the site with a 10-foot front setback at the sixth floor and a 12-foot front setback at the seventh floor at the maximum building base height of 85 feet.

³ This Special Permit request would have no relevance to the Urban Design and Visual Resources analysis as the rear inner courts of the building would not be visible to the public at street level.

- <u>Modification of Yard Requirements</u> - C6-2A zoning districts require a 30-foot rear yard but since the site is located 95.46 feet of the point of intersection of White Street and Franklin Place, no rear yards are required pursuant to ZR Section 23-541 (Within one hundred feet of corners). However, pursuant to ZR Section 23-861 (General provisions), all legally required windows must be located 30 feet from a wall, rear lot line or side lot line in a C6-2A zoning district. A Special Permit is requested to waive these requirements to allow the construction of a two-story vertical enlargement to the existing five-story building on the site with legally required windows that are located 20 feet from the rear lot line.

As discussed in the Historic and Cultural Resources section above, the proposed setbacks and the raising of the west wall would limit the visual impact of the addition from White Street. In addition, the requested rear yard modifications would not be visible from street level. Therefore, there would not be the potential for a pedestrian to observe, from the street level, a significant physical alteration beyond that allowed by existing zoning. See attached Existing, No-Action, and With-Action Urban Design drawings.

The proposed action would not result in the obstruction of publicly accessible views to visual resources that are not allowed by the existing zoning of the property.

As discussed in the Historic and Cultural Resources section above, the Landmarks Committee of Manhattan Community Board 1 has issued a favorable resolution for the proposed renovation and two-story addition of the existing building at 51-53 White Street on October 25th, 2016, which was required prior to the LPC public hearing. LPC voted to approve the proposal at their December 6, 2016 meeting and will issue a report to the CPC. LPC issued a Certificate of Appropriateness (COFA-19-11467) dated December 29, 2017 in conjunction with Certificate of No Effect 19-1576, issued June 5, 2017, and Modification of Use 19-11468, issued December 22, 2017. The COFA permit will remain in effect until December 6, 2022.

2. Floor Area

The proposed action would result in the construction of two additional floors and a penthouse on the roof of the existing building totaling 4,494 zsf. With the addition of 6,375 zsf of residential floor area, comprised of the 2,331 zsf floor 1A and the 4,494 zsf enlargement minus 450 zsf to accommodate a double height space⁴ in the rear of the first floor, the building would contain 23,150 zsf of total floor area, representing an FAR of 5.94 on the 3,900 sf lot. The 19,895 zsf of proposed residential floor area on the site represents an FAR of 5.10 and the 3,255 zsf of commercial floor area represents an FAR of 0.83. The project site's C6-2A zoning permits a maximum base residential FAR of 6.02 and a maximum base commercial FAR of 6.0 which would allow up to 23,478 zsf of residential floor area or 23,400 zsf of commercial floor area on the property. Following the proposed enlargement, the building would contain 31,905 gsf and 23,150 zsf of floor area and no additional floor area would be developed on the project site.

Although the project would result in an increase of 4,047 zsf of floor area, it would not result in an increase in built zoning floor area beyond what would be allowed 'as-of-right' or in the future

⁴ A double height space is an area above a floor that is double the normal floor-to-floor height with no floor, stairs, or other area on which to stand.

without the proposed project. The project would result in the building on the site being built out to 23,150 zsf, which is slightly below the maximum permitted 23,478 zsf under its C6-2A zoning.

Conclusion

Based on the above, an urban design assessment would not be required and the proposed action would not result in significant adverse impacts to urban design or visual resources.







WITH ACTION-DEVELOPMENT

DEVELOPMENT SITE BOUNDARY

WHITE ST LOOKING EAST (SITE LEFT)

NOTE: VISIBILITY OF THE HEIGHT INCREASE OF THE WITH-ACTION DEVELOPMENT FROM THIS POINT-OF-VIEW ON WHITE STREET IS LIMITED BY THE RAISING OF THE BUILDINGS EXISTING WEST ROOF PARAPET AND BECAUSE IT IS SETBACK FROM THE STREET

URBAN DESIGN DIAGRAM

G-007.00



NO-ACTION DEVELOPMENT



WITH ACTION-DEVELOPMENT

DEVELOPMENT SITE BOUNDARY

6TH AVE LOOKING EAST (SITE IN MIDDLE)

NOTE: THERE IS NO VISIBILITY OF THE HEIGHT INCREASE OF THE WITH-ACTION DEVELOPMENT FROM THIS POINT-OF-VIEW ON CHURCH STREET BECAUSE IT IS SETBACK FROM THE STREET AND STREET WALLS OF ADJACENT BUILDINGS BLOCK IT.

URBAN DESIGN DIAGRAM

G-006.00



NO-ACTION DEVELOPMENT



WITH ACTION-DEVELOPMENT

DEVELOPMENT SITE BOUNDARY

WHITE STREET FACING SOUTH (SITE)

NOTE: THERE IS NO VISIBILITY OF THE HEIGHT INCREASE OF THE WITH-ACTION DEVELOPMENT FROM THIS POINT-OF-VIEW ON WHITE STREET BECAUSE IT IS SETBACK FROM THE STREET WALL AND THE STREET IS NARROW

URBAN DESIGN DIAGRAM

G-005.00

17. AIR QUALITY

Introduction

Under *CEQR*, two potential types of air quality impacts are examined. These are mobile and stationary source impacts. Potential mobile source impacts are those which could result from an increase in traffic in the area, resulting in greater congestion and higher levels of carbon monoxide (CO). Potential stationary source impacts are those that could occur from stationary sources of air pollution, such as the heat and hot water boiler of a proposed development which could adversely affect other buildings in proximity to the proposed development.

Mobile Source

Under guidelines contained in the 2014 CEQR Technical Manual, and in this area of New York City, projects generating fewer than 170 additional vehicular trips in any given hour are considered as highly unlikely to result in significant mobile source impacts, and do not warrant detailed mobile source air quality studies.

The proposed action would result in the addition of two residential units relative to the No-Action development on the project site. Therefore, the project would generate fewer than 170 additional vehicular trips in any given hour.

No significant adverse mobile source air quality impacts would be generated by the project.

Stationary Source

A stationary source analysis is typically required for projects that would use fossil fuels (*i.e.*, fuel oil or natural gas) for heating/hot water, ventilation, and air conditioning systems. The concern is that emissions from boiler stacks on these buildings could adversely affect nearby buildings. The proposed development would not utilize a standard boiler system for the generation of heat and hot water, as further detailed below, and would therefore not generate emissions that could adversely affect nearby receptors.

Building heat for the proposed condition will be provided via electrically powered split-system Mitsubishi heat pumps with outdoor condensing units on the rear of the penthouse roof and ceiling-hung air handlers on each floor. (See Drawing A-102.00, 3- Proposed Penthouse in the Air Quality Appendix. Eleven condensing units are shown behind the Apt. Stair Bulkhead.) The existing boiler stack on the roof will be removed. Domestic hot water will be provided via electrically powered instantaneous hot water heaters on each floor. This system will be used to provide heat and hot water to the entire building. Specifications for these systems are included in the Air Quality Appendix to this document.

The proposed ductless AC system consists of electrically operated outdoor units (compressors) that are connected to electrically powered indoor units (evaporators) by refrigerant lines that run through holes in the outside wall of the building. A ductless AC system provides both heating and cooling. Using reversible technology, ductless air conditioners move warm air indoors from outside when in heating mode and move warm air outdoors from inside when in cooling mode. They use like components with each inside unit containing an evaporator and fan to treat and distribute the air and each outside unit consisting of a variable-speed compressor condensing coil, fan and expansion valve.

As heat and hot water for the proposed development would be entirely generated by electricity and the existing boiler system in the building and boiler stack on the roof will be removed, no stationary source emissions would be generated by the project and there would be no effects on nearby receptors. Therefore, no significant adverse impacts due to boiler stack emissions from the proposed project would occur, and a detailed analysis of stationary source impacts is not required.

The Proposed Action would not result in any potentially significant adverse stationary or mobile source air quality impacts, and further assessment is not warranted.

Air Toxics

An air permit search of potential industrial sources within 400 feet of the project site has been conducted including an in-person land use survey and accompanying research regarding air quality permit folders at the NYC Department of Environmental Protection (DEP). The work began with an in-person survey of the 400-foot radius surrounding the project site that identified active manufacturing uses and commercial uses with a potential for noxious emissions. That survey was performed on March 22, 2018. A list of properties researched is included in Table 17-1 below. It identified six sites that might have an air quality permit on file at DEP (see sites showing "CURRENT" permits).

Table 17-1
51 White Street - Air Permit Search Locations

Block	Lot(s)	Address	Use	Permits
171	5	358 Broadway	Shoe Repair	CURRENT: CB274901, CANCELLED: CA104994, CA067776
173	27	343 Broadway (a.k.a. 88 Leonard Street)	Nail Salon	CURRENT: CB195506
174	14	253 Church Street	Industrial/ Manufacturing	EXPIRED: CA386086
174	16	97 Franklin Street	Industrial/ Manufacturing	NO RECORD FOUND
174	19	91 Franklin Street	Industrial/ Manufacturing	CURRENT: CR681014, CANCELLED: CA544785
174	20	89 Franklin Street	Industrial/ Manufacturing	CURRENT: CB131709, CANCELLED: CA033379
174	21	87 Franklin Street	Industrial/ Manufacturing	CURRENT: CB021102, CANCELLED: CA496485, CA059789

174	27	75 Franklin Street	Industrial/ Manufacturing	EXPIRED: CA006589
174	33	359 Broadway	Industrial/ Manufacturing	CANCELLED: CA375586
175	7	84 Franklin Street	Industrial/ Manufacturing	NO RECORD FOUND
175	16	279 Church Street	Industrial/ Manufacturing	CANCELLED: CA060286, EXPIRED: CB073803
193	12	44 White Street	Industrial/ Manufacturing	NO RECORD FOUND
193	26	35 Walker Street	Industrial/ Manufacturing	NO RECORD FOUND
193	46	391 Broadway	Industrial/ Manufacturing	EXPIRED: CA090884
193	47	385 Broadway	Industrial/ Manufacturing	NO RECORD FOUND
193	50	381 Broadway	Cleaners	CANCELLED: CA043384, EXPIRED: CA347389
193	7501	395 Broadway	Hardware Store	EXPIRED: CA023776, CA121081
193	7505	37 Walker Street	Nail Salon	NO RECORD FOUND
194	13	38 Walker Street	Industrial/ Manufacturing	NO RECORD FOUND
194	15	34 Walker Street	Textile Company	CURRENT: CB057307, CANCELLED: CA420085, EXPIRED: CA247790
195	1	380 Broadway	Industrial/ Manufacturing	NO RECORD FOUND
195	5	392 Broadway	Industrial/ Manufacturing	CANCELLED: CB080408, CA355185
195	6	394 Broadway	Industrial/ Manufacturing	CANCELLED: CB200402, CA549985, CA235393, CA121991, CB454503, CB100501, CB100401, CA112191, CB092001, CB479603, CB452703

The six identified sites were researched on the DEP website to determine if they have active air quality permits. The research found one permit corresponding to one of the sites, and five boiler certificates corresponding to the other five.

We requested the opportunity to review the relevant permits folders at DEP. A copy of the email communication to DEP is included in the Air Quality Appendix. On April 4, 2018, research staff visited DEP offices to review the folders. The one air quality permit was available for review. It was:

Address; Permit #; Owner/Tenant/User

88 Leonard Street (a.k.a. 343 Broadway); CB195506; Andria Puckett Waterton Residential NY, LLC

Scans of the above permit files and boiler certificates are included in the Air Quality Appendix.

Conclusion

The proposed project would not create any significant adverse mobile or stationary source air quality impacts relative to the surrounding area.

19. NOISE

Introduction

Two types of potential noise impacts are considered under CEQR. These are potential mobile source and stationary source noise impacts. Mobile source impacts are those which could result from a proposed project adding a substantial amount of traffic to an area. Potential stationary source noise impacts are considered when a proposed action would cause a stationary noise source to be operating within 1,500 feet of a receptor, with a direct line of sight to that receptor, if the project would include unenclosed mechanical equipment for building ventilation purposes, or if the project would introduce receptors into an area with high ambient noise levels. The 2014 CEQR Technical Manual requires an assessment of a proposed project's potential effects on sensitive noise receptors, including in this instance, the effects on the interior noise levels of residential uses in the subject building.

Mobile Source

Relative to mobile source impacts, a noise analysis would only be required if a proposed project would at least double existing passenger car equivalent (PCE) traffic volumes along a street on which a sensitive noise receptor (such as a residence, a park, a school, etc.) is located. Residential uses are located along White Street which provides vehicular access to the project site. White Street would therefore be of concern relative to mobile source noise impacts. The proposed action would result in the addition of two residential units relative to the No-Action development on the project site. Therefore, PCE values on White Street or other area roadways would not be doubled under the proposed action, and a detailed mobile source analysis is therefore not warranted.

No significant adverse mobile source noise impacts would be generated by the project.

Stationary Source

Potential Impacts of Proposed Project on Surrounding Development

The proposed action, which is the two-story vertical enlargement to the existing five-story building on the project site, would not cause a substantial stationary source, such as unenclosed mechanical equipment for building ventilation purposes or a playground, to be operating within 1,500 feet of a receptor, with a direct line of sight to that receptor. The proposed project would not include any unenclosed heating or ventilation equipment that could adversely impact other sensitive uses in the surrounding area. In addition, the proposed project would not include any active outdoor recreational space that could result in stationary source noise impacts to the surrounding area.

Potential Impacts of Surrounding Development on the Proposed Project

The proposed action would not introduce a receptor in an area with high ambient noise levels resulting from stationary sources, such as unenclosed manufacturing activities or other loud uses. No such uses are located within 400 feet of the project site. However, DCP has requested an assessment of ambient noise in the immediately surrounding area to determine whether occupants of the proposed building enlargement would be subjected to unacceptable noise levels. This noise analysis was conducted in September 2017 and the results are summarized below.

Noise Study

Project Area

Noise Monitoring was conducted to assess the need for noise attenuation at an enlargement proposed for the building at 51-53 White Street in Manhattan ("The Project Site"). The Project Site is the subject of a zoning action that would allow for construction of a two-story vertical enlargement of the existing five-story building at the Project Site. The additional floors would be occupied by dwelling units, therefore, the proposed development would introduce a new noise-sensitive land use and warrants an assessment of the potential for adverse effects on project occupants from ambient noise.

The Project Site is located on the south side of White Street on a block bounded by Franklin Place to the east and Church Street the west. White Street is a one-way, single lane, west-bound road that has intersections controlled by stop signs. The surrounding land uses consist primarily of multi-family residential and former industrial buildings predominantly occupied by commercial and residential uses.

Vehicular traffic, specifically commercial vans and heavy trucks, are the predominant source of noise in this area. The proposed development would not create a significant stationary noise generator. Additionally, project-generated traffic would not double vehicular traffic on nearby roadways, and therefore would not result in a perceptible increase in vehicular noise. This noise assessment is limited to an assessment of ambient noise that could adversely affect occupants of the development.

Framework of Noise Analysis

Noise is defined as any unwanted sound, and sound is defined as any pressure variation that the human ear can detect. Humans can detect a large range of sound pressures, from 20 to 20 million micropascals, but only those air pressure variations occurring within a particular set of frequencies are experienced as sound. Air pressure changes that occur between 20 and 20,000 times a second, stated as units of Hertz (Hz), are registered as sound.

Because the human ear can detect such a wide range of sound pressures, sound pressure is converted to sound pressure level (SPL), which is measured in units called decibels (dB). The decibel is a relative measure of the sound pressure with respect to a standardized reference quantity. Because the dB scale is logarithmic, a relative increase of 10 dB represents a sound pressure that is 10 times higher. However, humans do not perceive a 10-dB increase as 10 times louder. Instead, they perceive it as twice as loud. The following Table Noise-1 lists some noise levels for typical daily activities.

Table Noise-1: Noise Levels of Common Sources

Table 19-1 Noise Levels of Common Sources				
Sound Source	SPL (dB(A))			
Air Raid Siren at 50 feet	120			
Maximum Levels at Rock Concerts (Rear Seats)	110			
On Platform by Passing Subway Train	100			
On Sidewalk by Passing Heavy Truck or Bus	90			
On Sidewalk by Typical Highway	80			

On Sidewalk by Passing Automobiles with Mufflers	70			
Typical Urban Area	60-70			
Typical Suburban Area	50-60			
Quiet Suburban Area at Night	40-50			
Typical Rural Area at Night	30-40			
Isolated Broadcast Studio	20			
Audiometric (Hearing Testing) Booth	10			
Threshold of Hearing	0			
Notes: A change in 3dB(A) is a just noticeable change in SPL. A change in 10 dB(A) Is perceived as a doubling or halving in SPL.				
Source: 2014 CEOR Technical Manual				

Sound is often measured and described in terms of its overall energy, taking all frequencies into account. However, the human hearing process is not the same at all frequencies. Humans are less sensitive to low frequencies (less than 250 Hz) than mid-frequencies (500 Hz to 1,000 Hz) and are most sensitive to frequencies in the 1,000- to 5,000-Hz range. Therefore, noise measurements are often adjusted, or weighted, as a function of frequency to account for human perception and sensitivities. The most common weighting networks used are the A- and C-weighting networks. These weight scales were developed to allow sound level meters, which use filter networks to approximate the characteristic of the human hearing mechanism, to simulate the frequency sensitivity of human hearing. The A-weighted network is the most commonly used, and sound levels measured using this weighting are denoted as dBA. The letter "A" indicates that the sound has been filtered to reduce the strength of very low and very high frequency sounds, much as the human ear does. C-weighting gives nearly equal emphasis to sounds of most frequencies. Mid-range frequencies approximate the actual (unweighted) sound level, while the very low and very high frequency bands are significantly affected by C-weighting.

The following is typical of human response to relative changes in noise level:

- 3-dBA change is the threshold of change detectable by the human ear;
- 5-dBA change is readily noticeable; and
- 10-dBA change is perceived as a doubling or halving of the noise level.

The SPL that humans experience typically varies from moment to moment. Therefore, various descriptors are used to evaluate noise levels over time. Some typical descriptors are defined below.

- Leq is the continuous equivalent sound level. The sound energy from the fluctuating SPLs is averaged over time to create a single number to describe the mean energy, or intensity, level. High noise levels during a measurement period will have a greater effect on the Leq than low noise levels. Leq has an advantage over other descriptors because Leq values from various noise sources can be added and subtracted to determine cumulative noise levels.
 - Leq(24) is the continuous equivalent sound level over a 24-hour time period.

The sound level exceeded during a given percentage of a measurement period is the percentile-exceeded sound level (LX). Examples include L10, L50, and L90. L10 is the A-weighted sound level that is exceeded 10% of the measurement period.

The decrease in sound level caused by the distance from any single noise source normally follows the inverse square law (i.e., the SPL changes in inverse proportion to the square of the distance from the sound source). In a large open area with no obstructive or reflective surfaces, it is a general rule that at distances greater than 50 feet, the SPL from a point source of noise drops off at a rate of 6 dB with each doubling of distance away from the source. For "line" sources, such as vehicles on a street, the SPL drops off at a rate of 3 dBA with each doubling of the distance from the source. Sound energy is absorbed in the air as a function of temperature, humidity, and the frequency of the sound. This attenuation can be up to 2 dB over 1,000 feet. The drop-off rate also will vary with both terrain conditions and the presence of obstructions in the sound propagation path.

Measurement Location and Equipment

Because the predominant noise sources in the area of the proposed project consist of vehicular movements, noise monitoring was conducted during peak vehicular travel periods (AM, Midday, and PM). Pursuant to *CEQR Technical Manual* methodology, measurement periods of twenty-minute monitoring sessions were conducted at locations one (1) and two (2) during three peak periods of vehicular traffic. Noise Monitoring Locations are identified in **Figure 1** below.

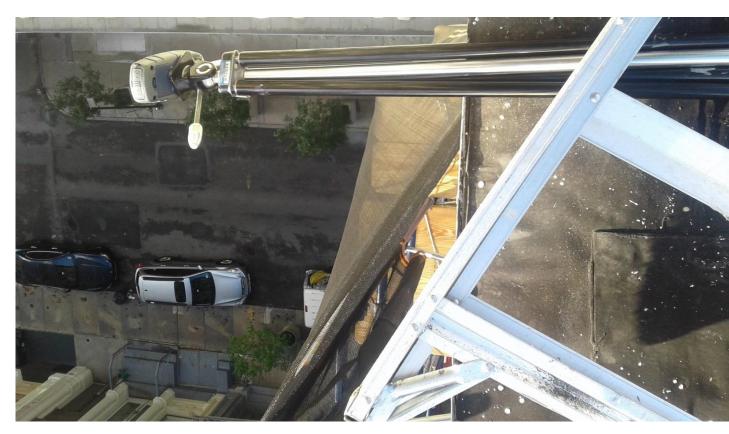
Noise monitoring was conducted using a Type 1 Casella CEL-63X sound meter with wind screen. The monitor was placed on a tripod off of the edge of the building with a clear sight of view of the ground, away from any other noise-reflective surfaces. The monitor was calibrated prior to and following each monitoring session. Periods of peak vehicular traffic around the Project Site constitute a worst-case condition for noise.

Photo 1



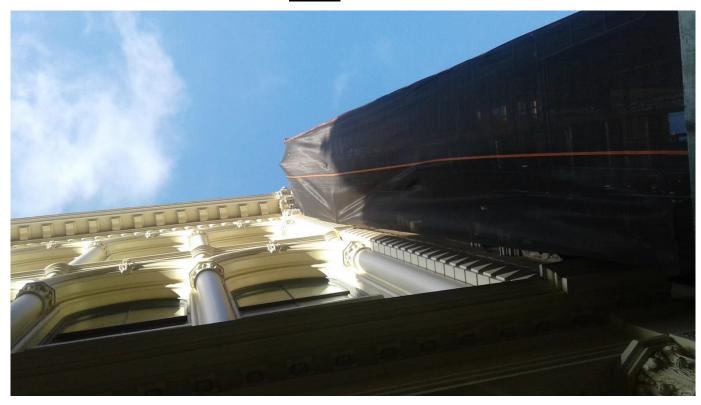
Location 1: Rear of the Building, Clear sight of view to the Ground.

Photo 2



Location 2: Front of the Building. Clear sight of view looking down onto White Street.

Photo 3



Location 2: Looking up at Location 2 from White Street.

Measurement Conditions

Monitoring was conducted during typical midweek conditions, on Thursday, September 7, 2017. Weather was warm (approximately 70 degrees Fahrenheit), and wind speeds were mild during the monitoring sessions. Noise levels at Location One (1) at the rear of the building were affected by construction of a building approximately two blocks away. Measurements conducted at Location Two (2), in the front of the building over White Street, reflect typical ambient noise conditions. Traffic volumes and vehicle classification were documented during the noise monitoring. The sound meters were calibrated before and after each monitoring session.

Existing Conditions

Based on the noise measurements taken around the Project Area, the predominant source of noise is vehicular traffic from heavy trucks and commercial vehicles. The level of noise was mild at Location One (1) and Location Two (2).

Table Noise-2 below contains the results for the measurements taken at the Project Area: Note: **Bold** denotes highest recorded L10 noise level.

Table Noise-2 (1 of 2): Noise Levels (dB)

Location 1: Noise Levels on the Roof at the Rear of the Building

Thursday, September 7, 2017						
Time	07:39 am - 07:59 am	12:01 pm - 12:21 pm	16:30 pm - 16:49 pm			
Lmax	73.9	80.4	81.3			
L10	64.0	63.0	65.5			
Leq	62.4	61.6	63.5			
L50	61.5	60.5	63.0			
L90	60.5	59.5	60.5			
Lmin	59.5	58.9	58.6			

Table Noise-2 (2 of 2): Noise Levels (dB)

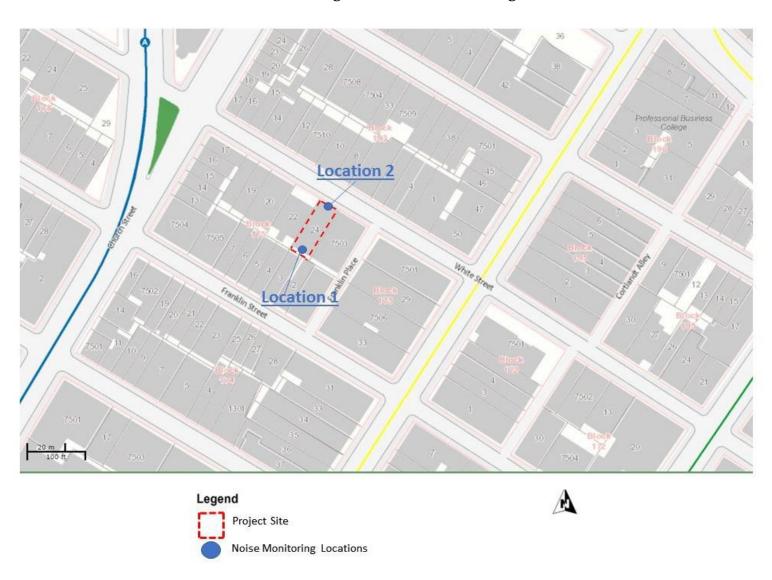
Location 2: Noise Levels on the Roof at the Front of the Building Overlooking White Street

Thursday, September 7, 2017						
Time	08:01 am - 08:22 am	12:24 pm - 12:44 pm	16:50 pm - 17:10 pm			
Lmax	76.3	78.5	91.9			
L10	66.5	66.5	65.5			
Leq	64.4	65.1	66.2			
L50	62.5	63.5	62.0			
L90	61.0	62.0	60.5			
Lmin	58.7	60.4	58.0			

The 2014 CEQR Technical Manual Table 19-2 contains noise exposure guidelines. For a residential use such as would occur under the proposed action, an L10 of between 65 and 70 dB(A) is identified as marginally acceptable general external exposure. The highest recorded L10 at Location One (1) of the subject property was 65.5 dB during the evening monitoring period. The highest recorded L10 at Location Two (2) of the subject property was 66.5 dB during the morning and afternoon monitoring periods. Based on these results, no attenuation measures would be required and no significant adverse impacts related to noise would result from the proposed action.

It should also be noted that the 24 new windows to be installed in the building will have an OITC rating of 24.

Figure 1: Noise Monitoring Locations



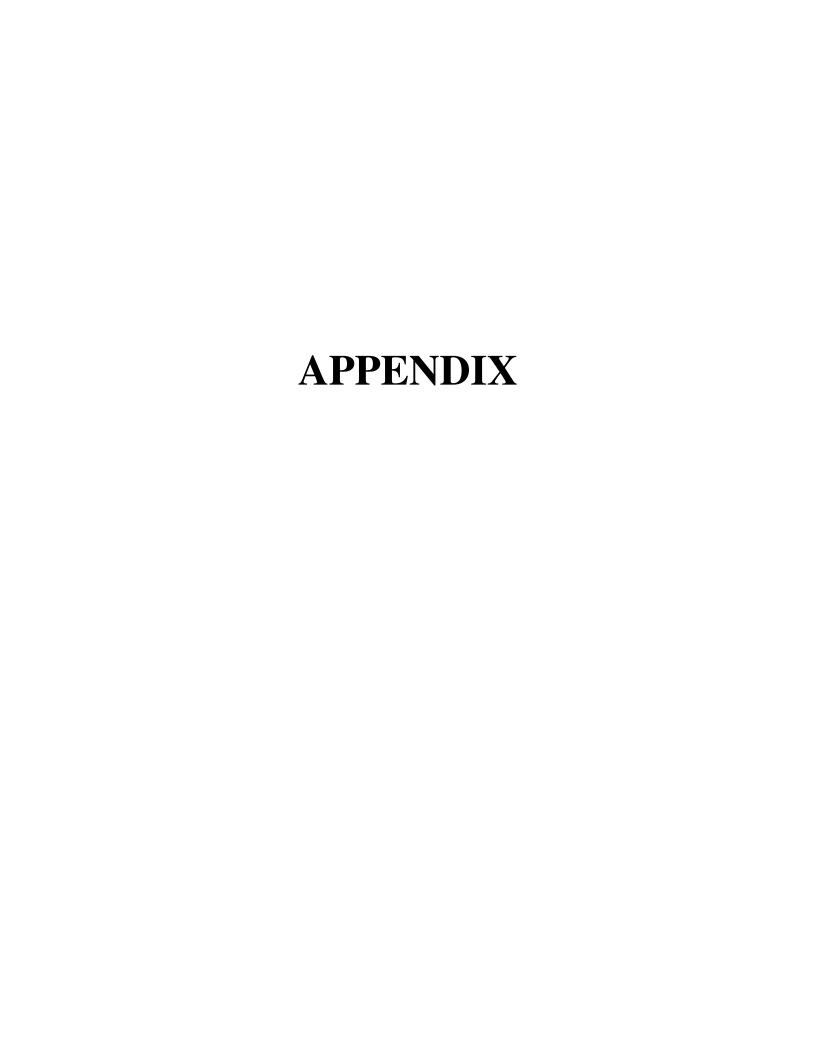
22. CONSTRUCTION

Based on *CEQR Technical Manual* guidelines, where the duration of construction is expected to be short-term (less than two years), any impacts resulting from construction generally do not require detailed assessment. Construction of the proposed project is expected to be completed within eight months. However, a preliminary screening of construction impacts resulting from the project is potentially required because construction activities on the site would be occurring within 400 feet of historic and cultural resources, as identified in the Historic and Cultural Resources section above.

The CEQR Technical Manual indicates that construction impacts may occur to historic and cultural resources if in-ground disturbances or vibrations associated with project construction could undermine the foundation or structural integrity of nearby resources. In the future without the project, sub-cellar excavation would occur to accommodate a new elevator and provide additional headroom in the sub-cellar. No additional subsurface ground disturbance would occur to accommodate the proposed action. Therefore, the proposed action would not involve any inground disturbance and minimal if any vibrations are anticipated to occur as part of project construction.

A construction assessment may be needed for historic and cultural resources if the project involves construction activities within 400 feet of a historic resource. LPC-approved construction procedures would be followed to protect historic structures in the area from damage from vibration, subsidence, dewatering, or falling objects. Construction procedures would comply with the NYC Department of Buildings memorandum Technical Policy and Procedure Notice # 10/88 (TPPN # 10/88) and with the site safety requirements of the 2008 NYC Building Code, as amended, which stipulate that certain procedures be followed for the avoidance of damage to historic and other structures resulting from construction. TPPN # 10/88 pertains to any structure which is a designated NYC Landmark or located within a historic district, or listed on the National Register of Historic Places and is contiguous to or within a lateral distance of 90 feet from a lot under development or alteration. No adverse construction impacts would occur to any historic resources within 400 feet of the project site.

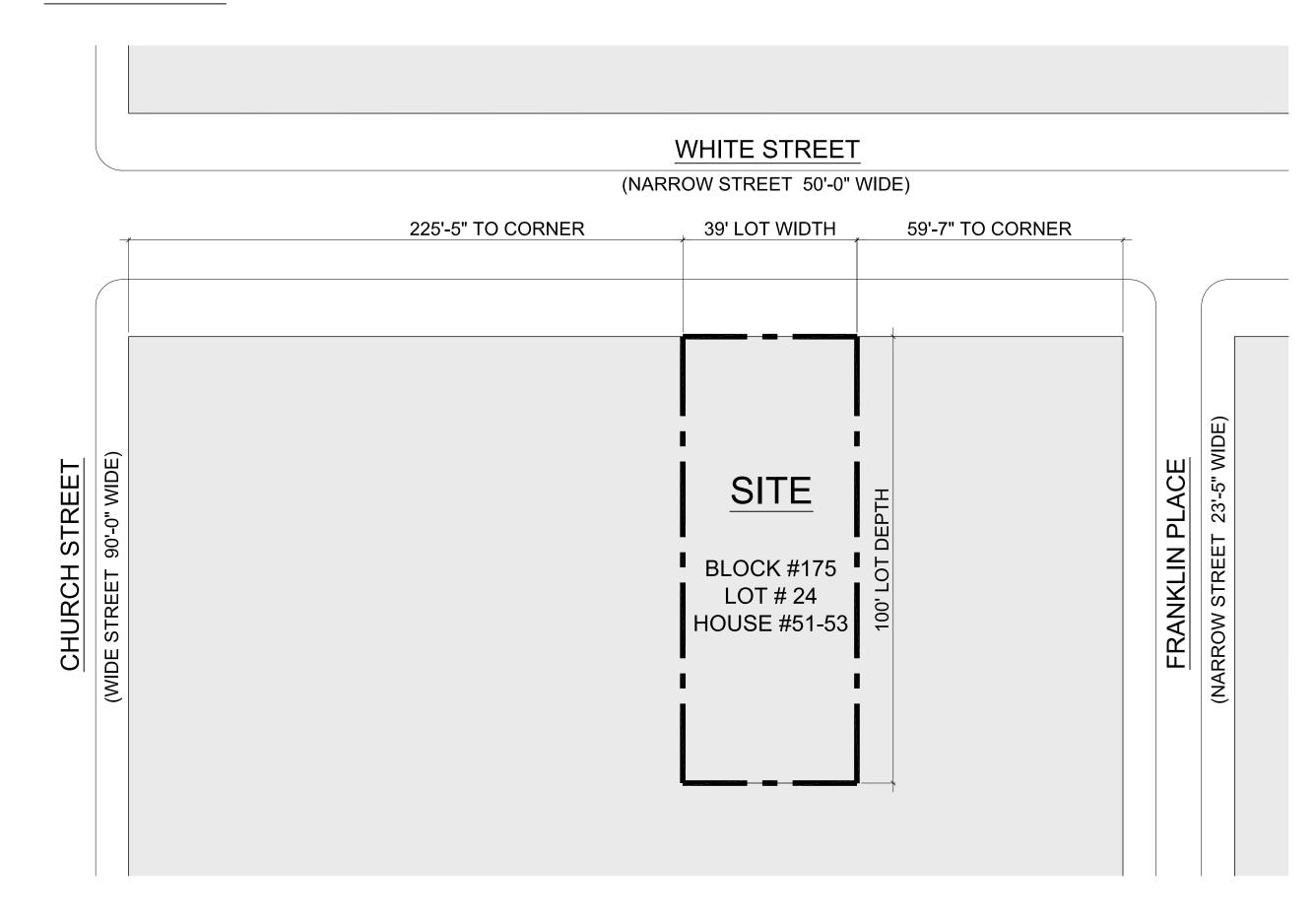
On the basis of the above analysis, the proposed action would not have any potentially significant adverse construction impacts, and further analysis would not be warranted.



Architectural Plans

51-53 WHITE STREET - MANHATTAN

PLOT PLAN



DRAWING INDEX

G-000 COVER SHEET

TAX MAP

ZONING MAP

SITE SURVEY

SITE PHOTOGRAPHS

G-001 RADIUS DIAGRAM LAND USE MAP

G-002 ZONING LOT SITE PLAN

G-003 WAIVER PLAN

A-004 PROPOSED BUILDING SECTION A-A AND WAIVER DIAGRAM

A-005 PROPOSED BUILDING SECTION B-B AND WAIVER DIAGRAM

G-006 REAR YARD OPEN SPACE DIAGRAM

Z-001 ZONING ANALYSIS

A-100 PROPOSED SUB CELLAR, CELLAR AND 1ST FLOOR PLANS

A-101 PROPOSED FLOOR 1A, 2ND AND 3RD-5TH FLOOR PLANS

A-102 PROPOSED 6TH, 7TH AND PENTHOUSE FLOOR PLANS

A-200 PROPOSED FRONT AND REAR ELEVATIONS

A-201 EXISTING WEST FACADE

A-202 PROPOSED WEST FACADE

A-203 NEIGHBORHOOD CHARACTERISTIC DIAGRAM

A-300 EXISTING BUILDING SECTION A-A

EXISTING BUILDING CHARACTERISTICS

ADDRESS: 51-53 WHITE STREET

BOROUGH: MANHATTAN

BLOCK: 175 LOT: 24 ZONING MAP NUMBER: 12a

NORTH

ZONING DISTRICT: C6-2A (R8A EQUIVALENT)

EXISTING BUILDING HEIGHT: 75' 5 STORIES, CELLAR & SUB-CELLAR

CONSTRUCTION CLASS: 3 NON-FIREPROOF BUILDING

LOT AREA: 3,900 SQUARE FEET

SITE SURVEY DATED: 08-31-2016
BUILDING CODE: PRIOR TO 1968

LPC DESIGNATION PHOTOGRAPH



SEAL:

51-53 WHITE STREET MANHATTAN BLOCK: 175, LOT: 24

DATE: 05-04-18

REVISION DATES: 1ST DRAFT APPLICATION: 08-08-2017

2ND DRAFT APPLICATION: 11-28-2017 3RD DRAFT APPLICATION: 03-08-2018

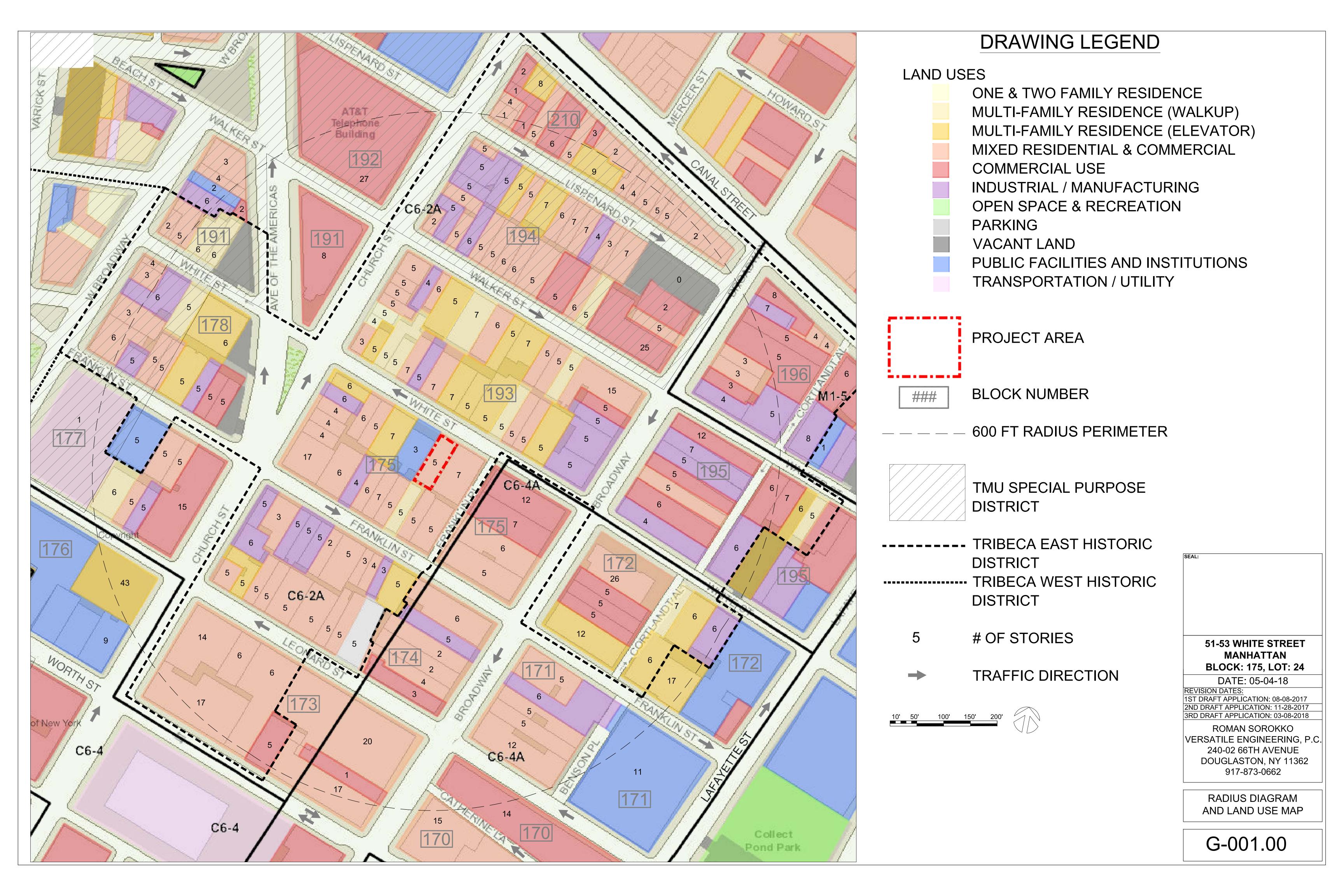
ROMAN SOROKKO
VERSATILE ENGINEERING, P.C.
240-02 66TH AVENUE
DOUGLASTON, NY 11362
917-873-0662

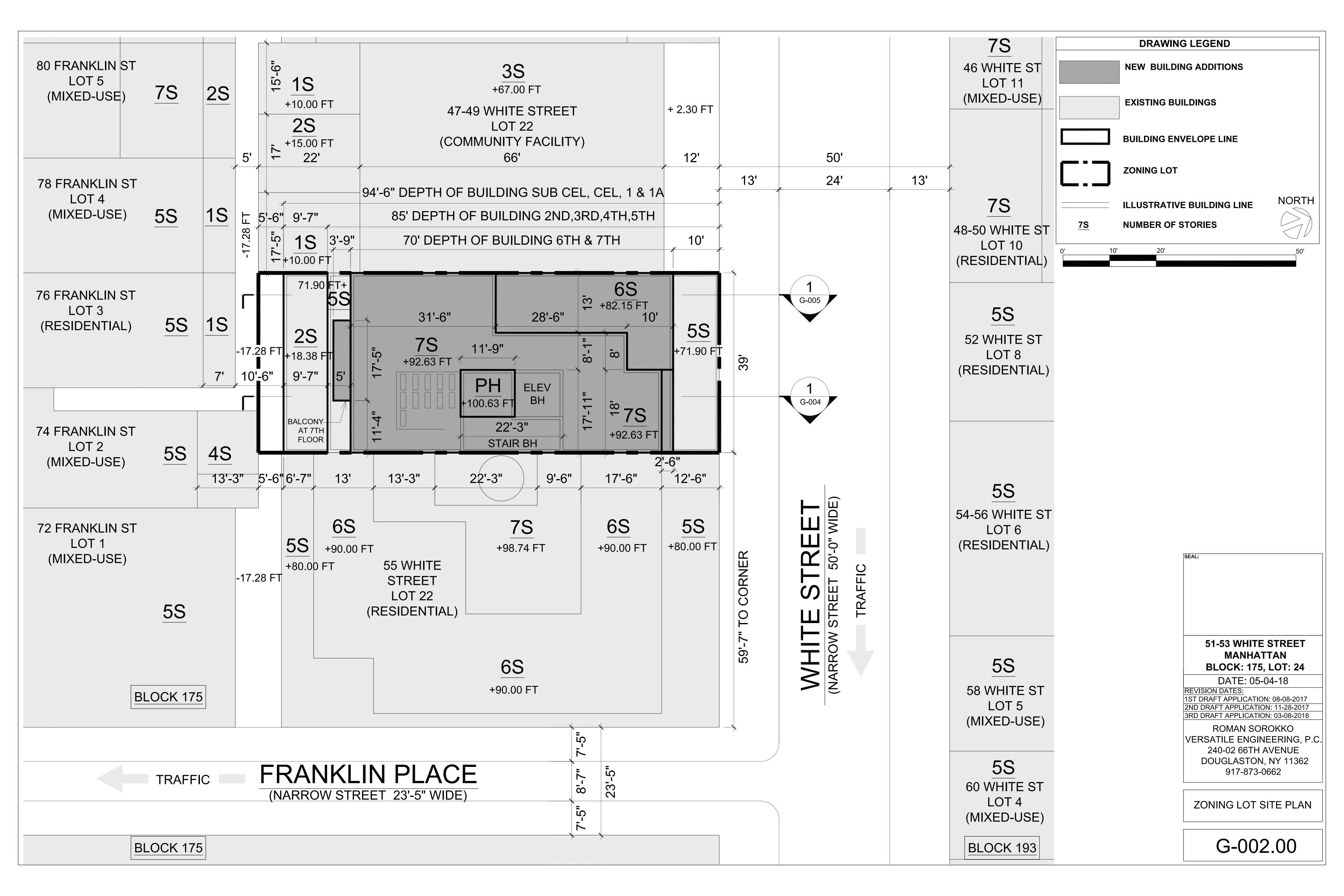
DRAWING TIT

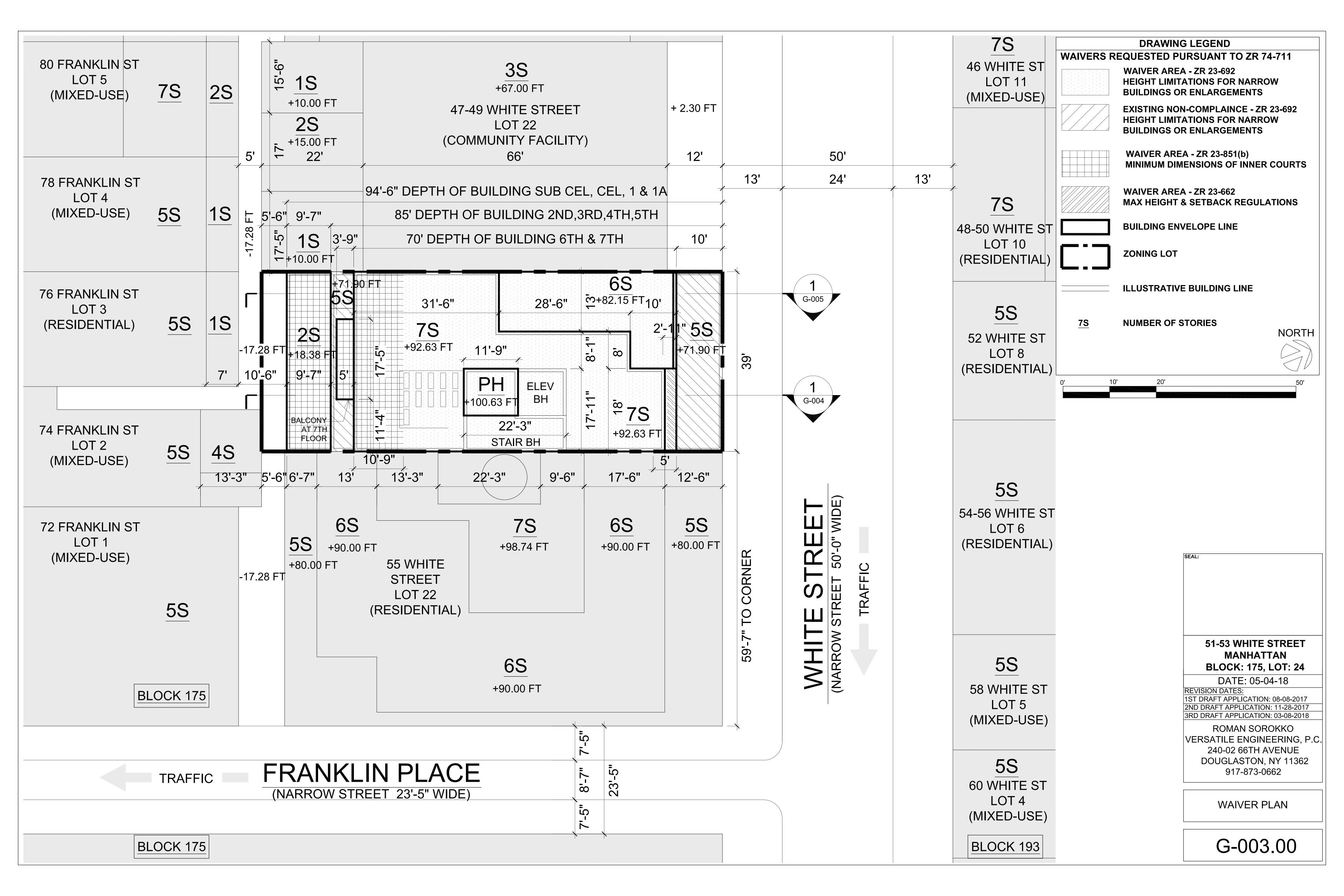
COVER SHEET

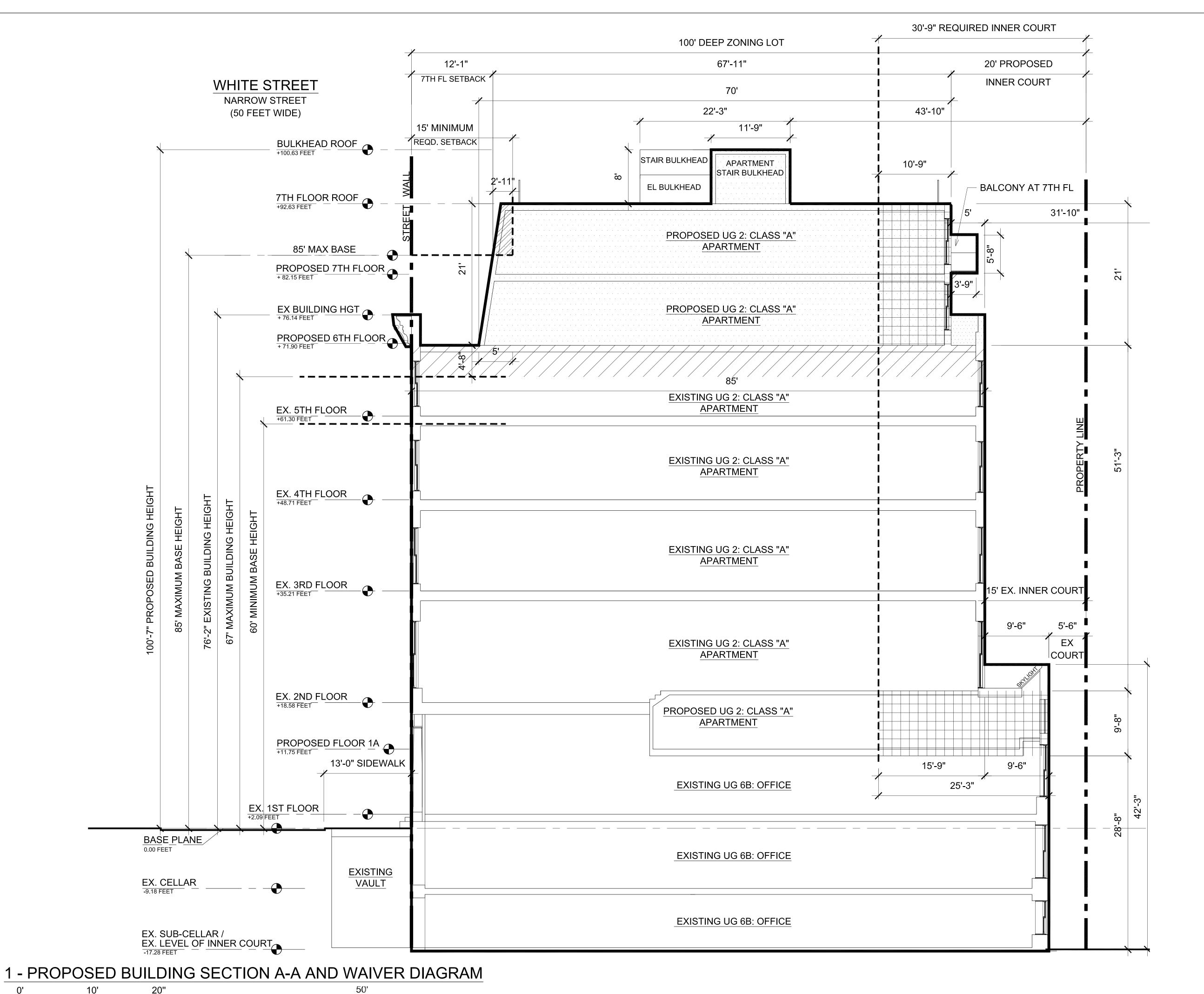
DRAWING NO:

G-000.00









DRAWING LEGEND **WAIVERS REQUESTED PURSUANT TO ZR 74-711** WAIVER AREA - ZR 23-692 **HEIGHT LIMITATIONS FOR NARROW BUILDINGS OR ENLARGEMENTS EXISTING NON-COMPLAINCE - ZR 23-692** HEIGHT LIMITATIONS FOR NARROW **BUILDINGS OR ENLARGEMENTS WAIVER AREA - ZR 23-851(b)** MINIMUM DIMENSIONS OF INNER COURTS WAIVER AREA - ZR 23-662 MAX HEIGHT & SETBACK REGULATIONS **BUILDING ENVELOPE LINE ZONING LOT LINE AS-OF-RIGHT ZONING LIMITS**

> 51-53 WHITE STREET **MANHATTAN**

BLOCK: 175, LOT: 24 DATE: 05-04-18

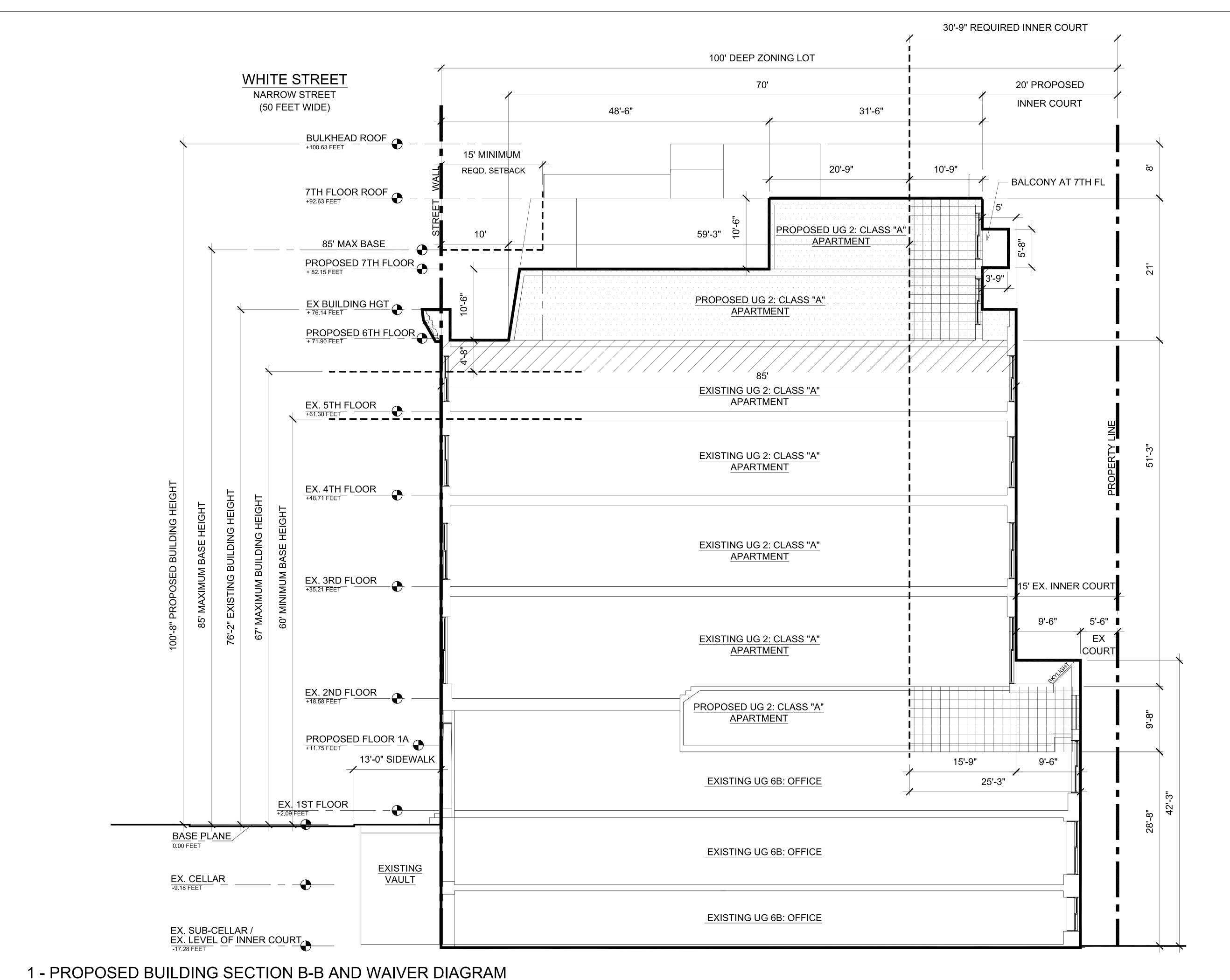
REVISION DATES: 1ST DRAFT APPLICATION: 08-08-2017

2ND DRAFT APPLICATION: 11-28-2017 3RD DRAFT APPLICATION: 03-08-2018

ROMAN SOROKKO VERSATILE ENGINEERING, P.C. 240-02 66TH AVENUE DOUGLASTON, NY 11362 917-873-0662

PROPOSED BUILDING SECTION A-A AND WAIVER DIAGRAM

G-004.00



DRAWING LEGEND **WAIVERS REQUESTED PURSUANT TO ZR 74-711** WAIVER AREA - ZR 23-692 **HEIGHT LIMITATIONS FOR NARROW BUILDINGS OR ENLARGEMENTS EXISTING NON-COMPLAINCE - ZR 23-692 HEIGHT LIMITATIONS FOR NARROW BUILDINGS OR ENLARGEMENTS WAIVER AREA - ZR 23-851(b)** MINIMUM DIMENSIONS OF INNER COURTS WAIVER AREA - ZR 23-662 MAX HEIGHT & SETBACK REGULATIONS **BUILDING ENVELOPE LINE ZONING LOT LINE AS-OF-RIGHT ZONING LIMITS**

> **51-53 WHITE STREET MANHATTAN BLOCK: 175, LOT: 24**

DATE: 05-04-18

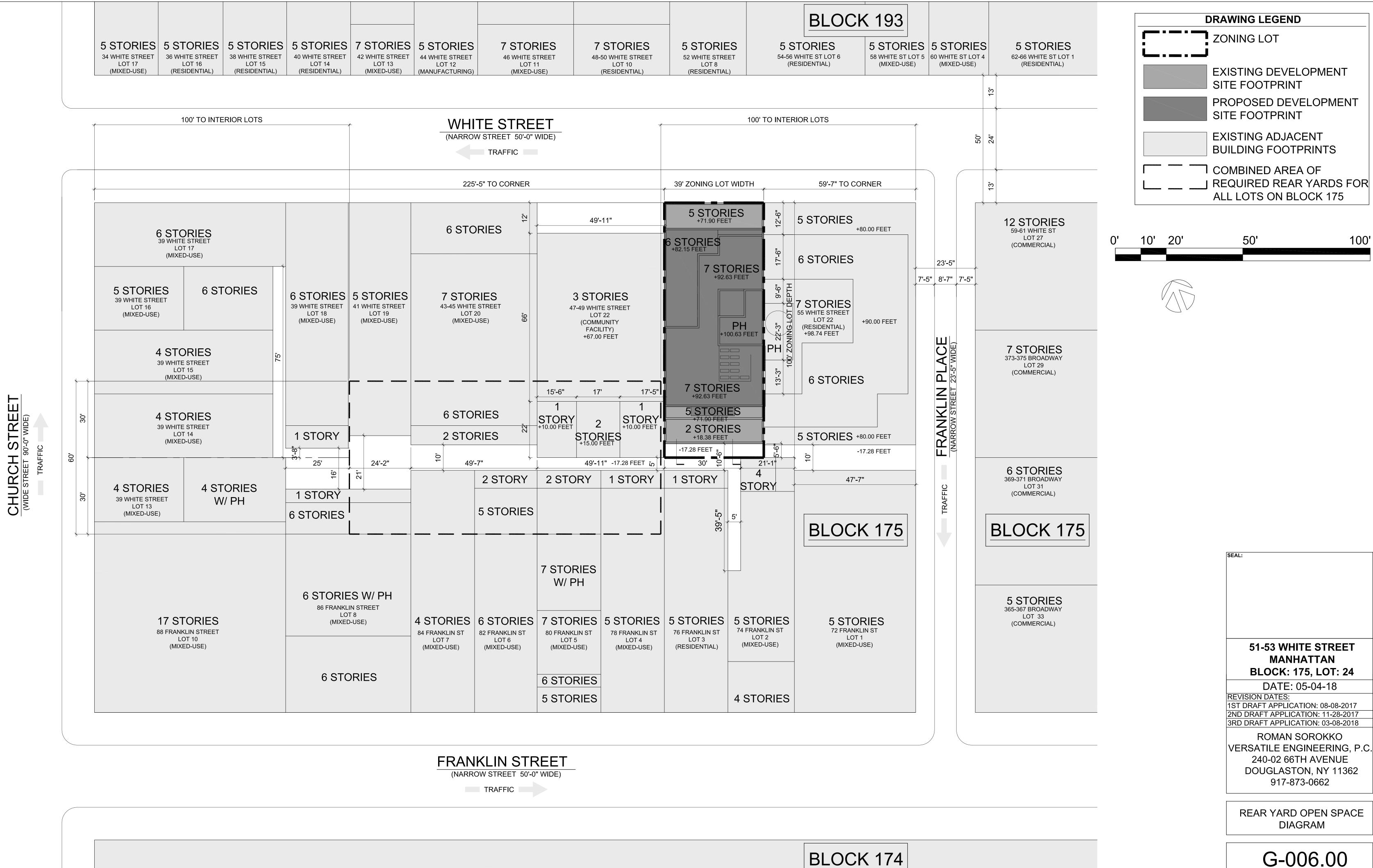
REVISION DATES:

1ST DRAFT APPLICATION: 08-08-2017 2ND DRAFT APPLICATION: 11-28-2017 3RD DRAFT APPLICATION: 03-08-2018

ROMAN SOROKKO VERSATILE ENGINEERING, P.C. 240-02 66TH AVENUE DOUGLASTON, NY 11362 917-873-0662

PROPOSED BUILDING SECTION B-B AND WAIVER DIAGRAM

G-005.00



LIST OF REQUIRED ACTIONS

REQUESTED WAIVERS PURSUANT TO ZR 74-711

23-662 MAXIMUM HEIGHT OF BUILDINGS AND SETBACK REGULATIONS

23-692 MAXIMUM PERMITTED BUILDING HEIGHT FOR NARROW BUILDINGS

23-851(b) MINIMUM DIMENSIONS AND AREA OF INNER COURTYARD

SITE DATA

ADDRESS: 51-53 WHITE STREET 175

LOT: 24 LOT AREA: 39' x 100' = 3,900 SF

EXISTING FLOOR AREA: 16,965 ZSF
ZONING DISTRICT: C6-2A / R8A EQUIVALENT
ZONING MAP 12A

STREET TYPE: NARROW STREET LOT TYPE: INTERIOR

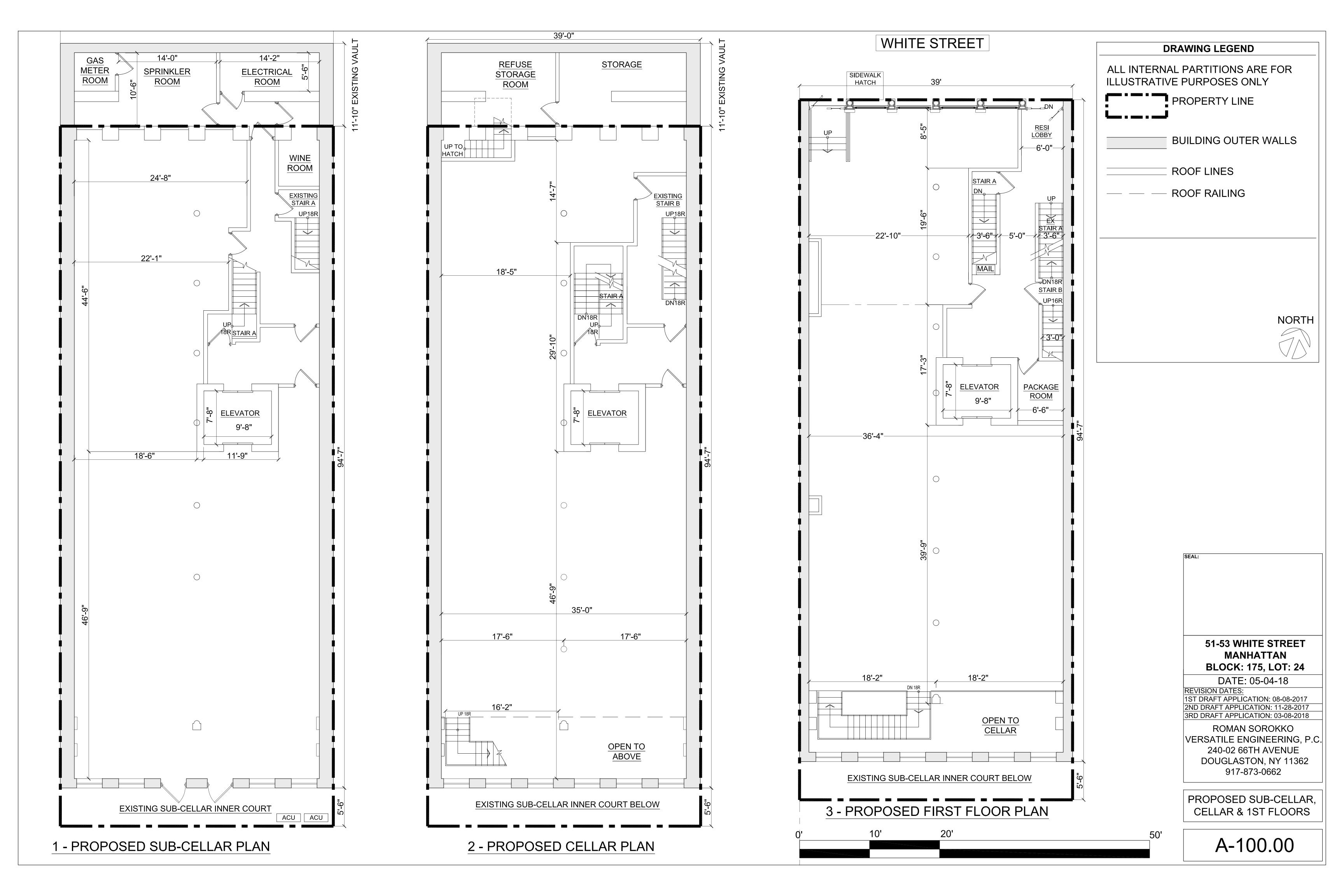
SUMMARY OF FLOOR AREA AND USE (THIS TABLE IS FOR ILLUSTRATIVE PURPOSES ONLY)

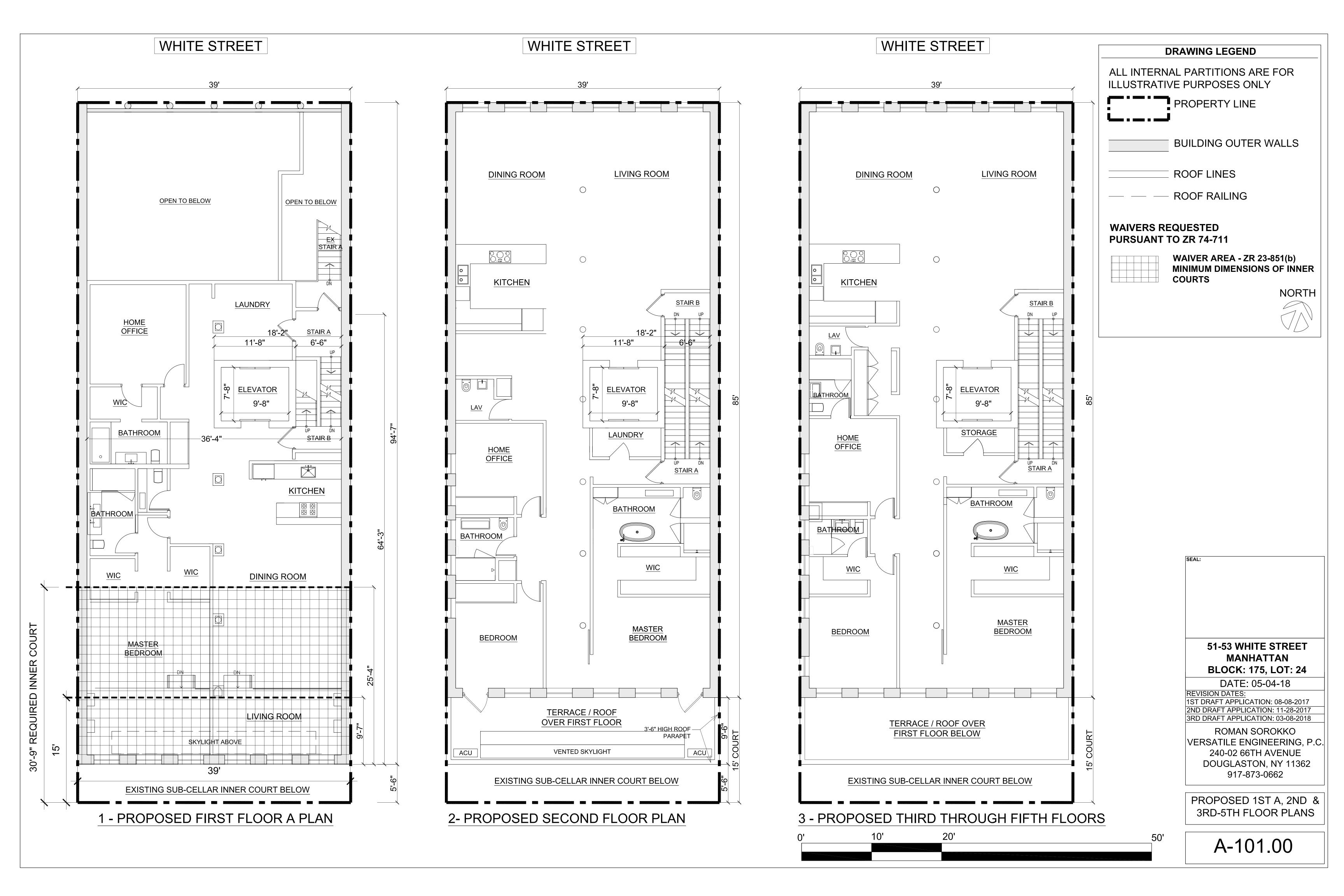
FLOOR	EXISTING USE	PROPOSED USE	EXISTING ZSF	PROPOSED ZSF
SUB-CELLAR	UG 2 & 6	UG 2 & 6	N/A	N/A
CELLAR	UG 2 & 6	UG 2 & 6	N/A	N/A
FIRST FLOOR	UG 2 & 6	UG 2 & 6	3,705 SF	3,255 ZSF
FIRST FLOOR A	N/A	UG 2	N/A	2,331 ZSF
SECOND FLOOR	UG 2	UG 2	3,315 SF	3,275 ZSF
THIRD FLOOR	UG 2	UG 2	3,315 SF	3,265 ZSF
FOURTH FLOOR	UG 2	UG 2	3,315 SF	3,265 ZSF
FIFTH FLOOR	UG 2	UG 2	3,315 SF	3,265 ZSF
SIXTH FLOOR	N/A	UG 2	N/A	2,462 ZSF
SEVENTH FLOOR	N/A	UG 2	N/A	1,932 ZSF
PENTHOUSE	N/A	UG 2	N/A	100 ZSF
		PROPOSED TOTALS	16,965 SF	23,150 ZSF

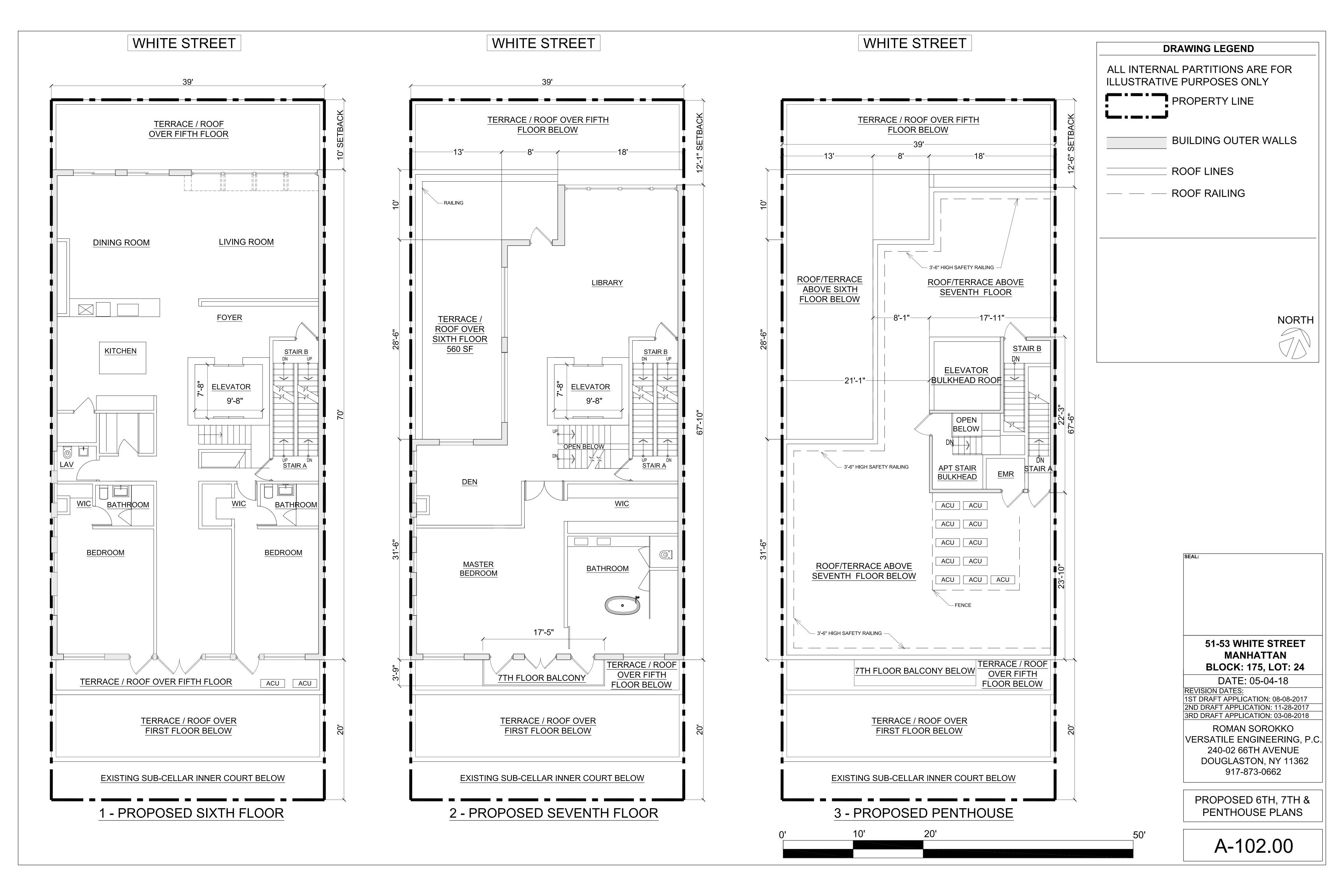
ZONING ANALYSIS

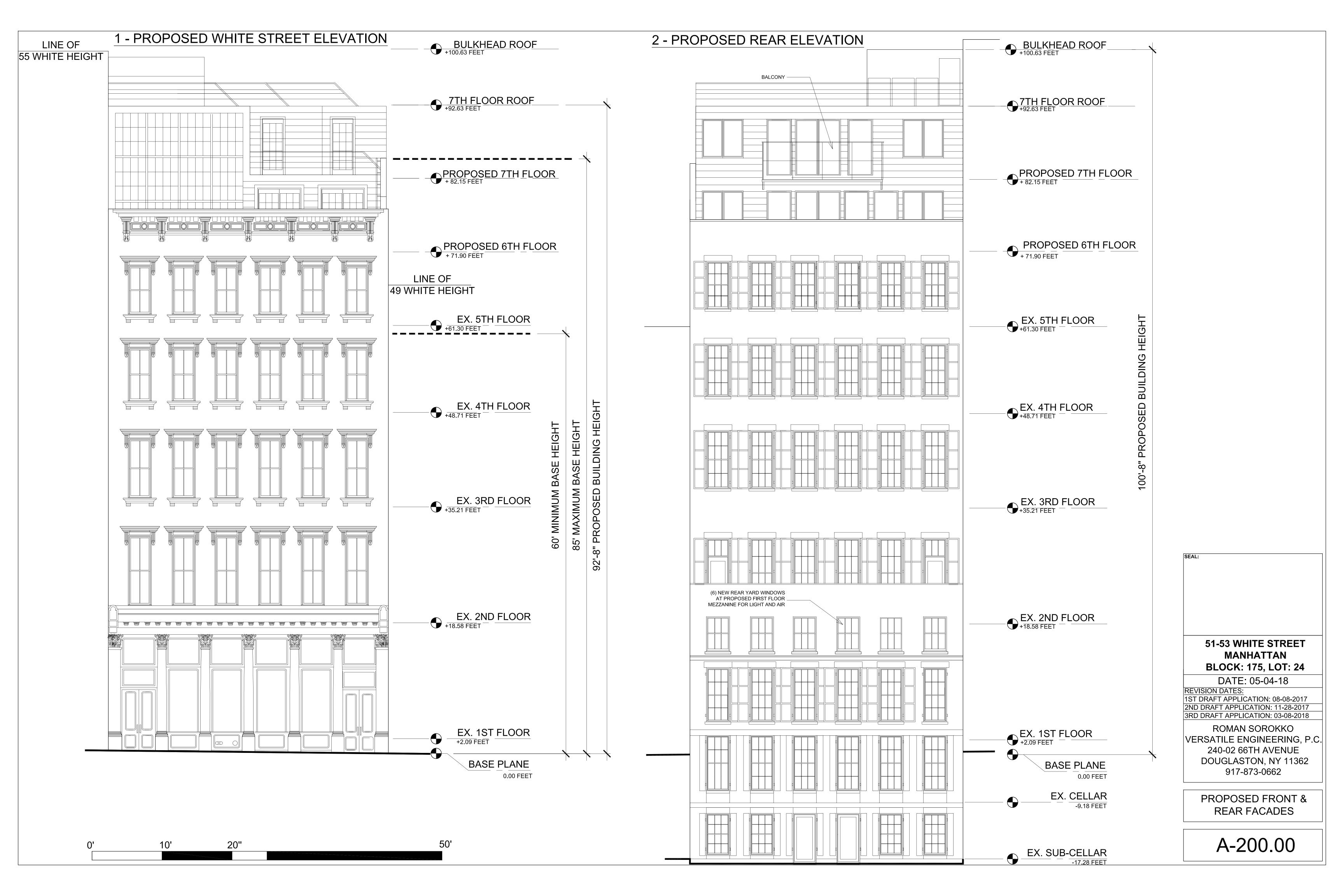
							<u></u>
ZONING RESOLUTION SECTION	TOPIC	TITLE / DESCRIPTION	PERMITTED / REQUIRED	EXISTING	PROPOSED TOTAL	COMPLIANCE NOTES	
ZR 22-10 ZR 32-10	USES	PERMITTED USES	RESIDENTIAL; USE GROUPS 1,2 COMMUNITY FACILITY; USE GROUPS 3,4 COMMERCIAL, USE GROUPS 5-12	USE GROUP 6: SUB, CEL & 1 USE GROUP 2: FLOORS 2,3,4,5	USE GROUP 6: SUB, CEL & 1 USE GROUP 2: FLOORS 1A, 2-7	COMPLIES	
ZR 23-32	LOT SIZE / AREA	MINIMUM REQUIRED LOT AREA AND WIDTH FOR RESIDENCES	MINIMUM LOT AREA = 1,700 SF MINIMUM WIDTH = 18'	3,900 SF 39'	3,900 SF 39'	COMPLIES	
ZR 23-03	STREET TREES	STREET TREE PLANTING IN RESIDENTIAL DISTRICTS	PROVIDE 1 STREET TREE FOR EACH 25 FEET OF STREET FRONTAGE. 39' (STREET FRONTAGE) / 25 = 2 STREET TREES	0 TREES	2 TREES	COMPLIES	
ZR 23-153 ZR 23-156	FLOOR AREA RATIO LOT COVERAGE FOR LOTS WITHIN 100 FEET OF THE CORNER	MAXIMUM LOT COVERAGE AND FLOOR AREA FOR QUALITY HOUSING BUILDINGS (RESIDENTIAL)	MAXIMUM PERMITTED LOT COVERAGE = 100% FLOOR AREA RATIO = 6.02	LOT COVERAGE= 3,705/3,900 = 95% FLOOR AREA RATIO = 3.4 3.4 X 3,900 = 13,260 ZSF	3,705/3,900 = 95% NO CHANGE FLOOR AREA RATIO = 5.10 19,895 / 3,900	COMPLIES	
ZR 33-122	FLOOR AREA RATIO	MAXIMUM COMMERCIAL FLOOR AREA IN ALL OTHER COMMERCIAL DISTRICTS	FLOOR AREA RATIO = 6.00 6.00 X 3,900 = 23,400 ZSF	FLOOR AREA RATIO = 0.95 3,705 ZSF 3,705 / 3,900	FLOOR AREA RATIO = 0.83 3,256 ZSF 3,256 / 3,900	COMPLIES	
	TOTAL PERMITTED FAR AND FLOOR AREA	MAXIMUM FAR AND FLOOR AREA FOR THE BUILDING	FLOOR AREA RATIO = 6.02 6.02 X 3,900 = 23,478 ZSF	FLOOR AREA RATIO = 4.35 16,965 ZSF	FLOOR AREA RATIO = 5.94 23,150 ZSF	COMPLIES	
ZR 23-22	DWELLING UNITS	MAXIMUM NUMBER OF DWELLING UNITS	MAXIMUM PERMITTED DWELLING UNITS FLOOR AREA / 680 (FACTOR OF DWELLING UNITS) MAX PERMITTED RESIDENTIAL FA = 23,478 ZSF 23,478 ZSF / 680 = 34 MAXIMUM DU	EXISTING DU = 12	PROPOSED DU = 6	COMPLIES	
ZR 23-45 ZR 23-46 ZR 23-47	YARDS	MINIMUM REQUIRED FRONT YARDS MINIMUM REQUIRED SIDE YARDS MINIMUM REQUIRED REAR YARDS	NONE REQUIRED NONE REQUIRED WITHIN 100' OF THE CORNER - NONE REQUIRED AS PER ZR 23-541	NONE	NONE	COMPLIES	
ZR 23-662	HEIGHT AND SETBACK CONTROLS	BASIC HEIGHT AND SETBACK REQUIREMENTS	MINIMUM BASE HEIGHT= 60' MAXIMUM BASE HEIGHT= 85' *				SEAL:
			MAXIMUM BUILDING HEIGHT = 120' * MINIMUM SETBACK (NARROW STREET) = 15'	BUILDING HEIGHT = 76'-2" NONE	BUILDING HEIGHT = 100'-8" SETBACK AT 85' = 12'	WAIVER PURSUANT TO ZR 74-711	
ZR 23-692	BUILDING HEIGHT	HEIGHT LIMITATIONS FOR NARROW BUILDINGS AND ENLARGEMENTS	MAXIMUM BUILDING HEIGHT = 50'	BUILDING HEIGHT = 76'-2"	BUILDING HEIGHT = 100'-8"	WAIVER PURSUANT TO ZR 74-711	
ZR 23-851(b) ZR 15-11	COURTS	MINIMUM DIMENSIONS OF INNER COURTS	MINIMUM DIMENSION OF 30' AND NO LESS THAN 1,200 SF 1,200 SF / 39' LOT WIDTH = 30'-9" MINIMUM DEPTH	NONE, PURSUANT TO ARTICLE 1: CHAPTER 5	VARIES: 5'-6" T0 43'-0" SEE DRAWINGS G-004 AND G-005	WAIVER PURSUANT TO ZR 74-711	51-53 WHITE STREET MANHATTAN BLOCK: 175, LOT: 24
							DATE: 05-04-18 REVISION DATES: 1ST DRAFT APPLICATION: 08-08-2017 2ND DRAFT APPLICATION: 11-28-2017
ZR 23-861	MINIMUM DISTANCE BETWEEN BUILDINGS	MINIMUM REQUIRED DISTANCE BETWEEN LEGALLY REQUIRED WINDOWS AND WALLS OR LOT LINE	30' MINIMUM DIMENSION	NOT APPLICABLE AS PER ARTICLE 1: CHAPTER 5	VARIES: 5'-6" T0 20'-0" SEE DRAWINGS G-004 AND G-005	WAIVER PURSUANT TO ZR 74-711	ROMAN SOROKKO VERSATILE ENGINEERING, P
ZR 15-11	CONVERSIONS						240-02 66TH AVENUE DOUGLASTON, NY 11362 917-873-0662
ZR 13-10	PARKING	PERMITTED OFF STREET PARKING IN MANHATTAN CORE	NO PARKING SHALL BE REQUIRED WITHIN THE MANHATTAN CORE	NONE	NONE	COMPLIES	ZONING ANALYSIS

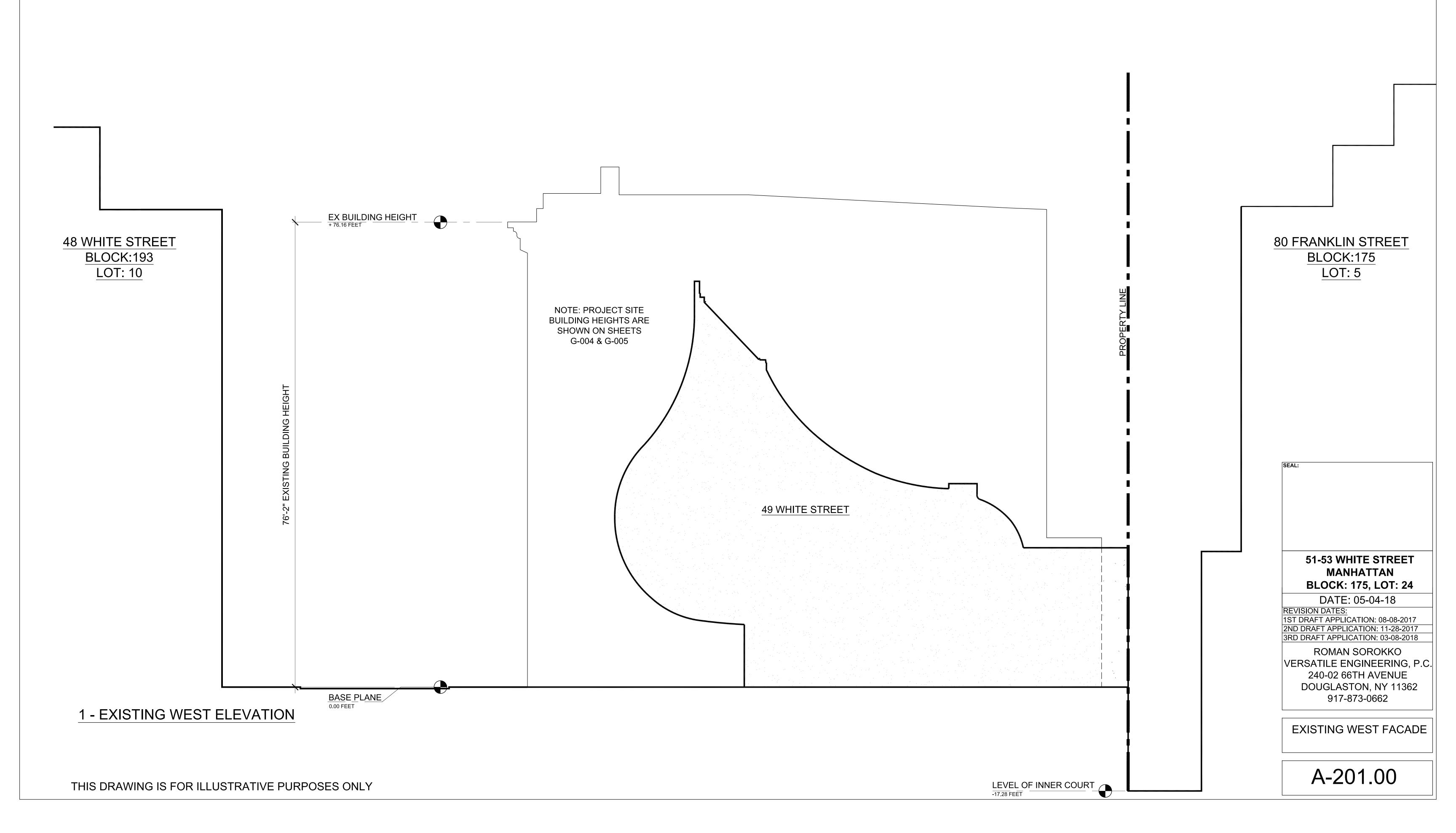
^{*} THESE HEIGHTS ARE PREEMPTED BY THE 67' HEIGHT LIMITATIONS OF ZR 23-692.

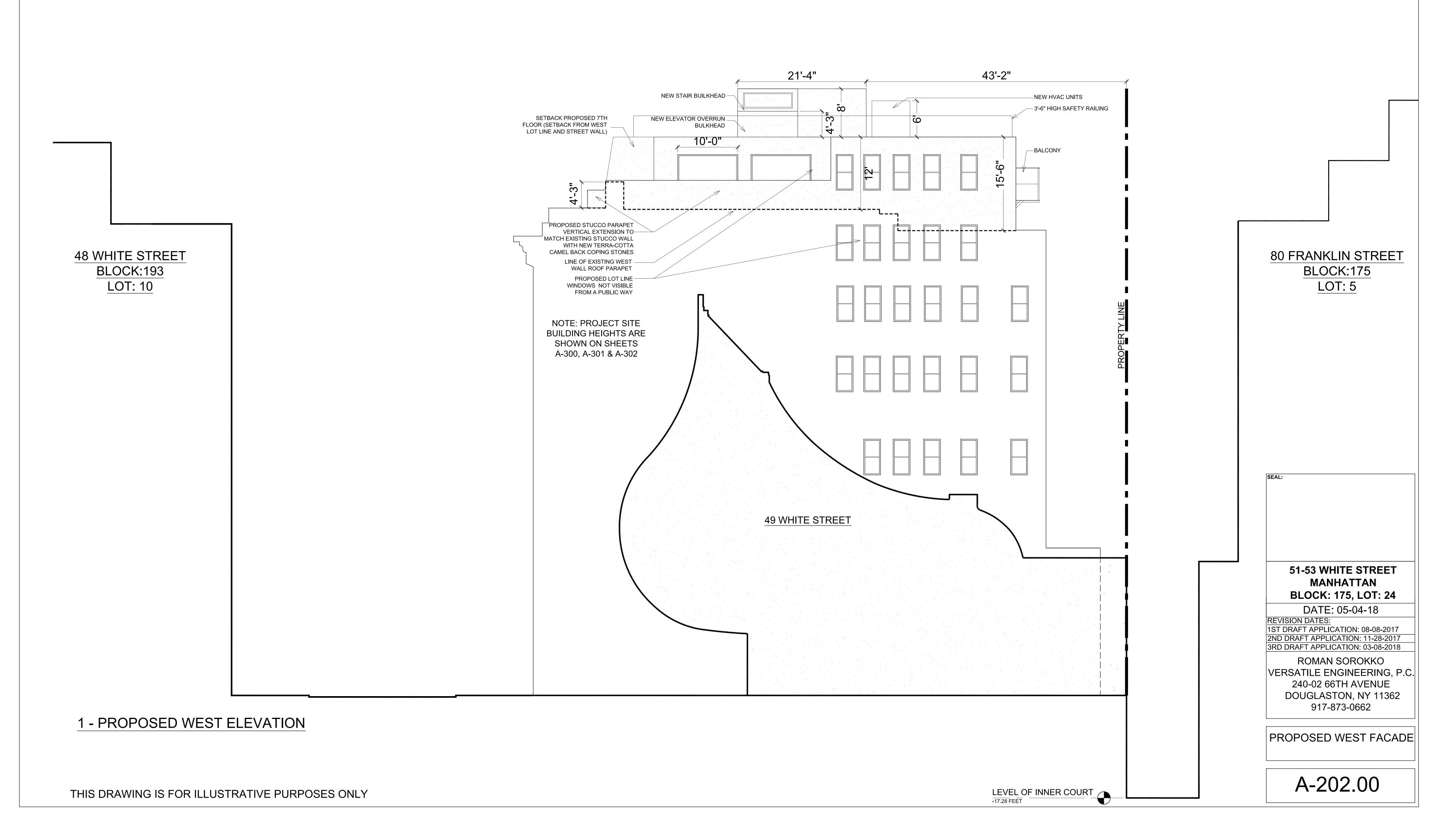


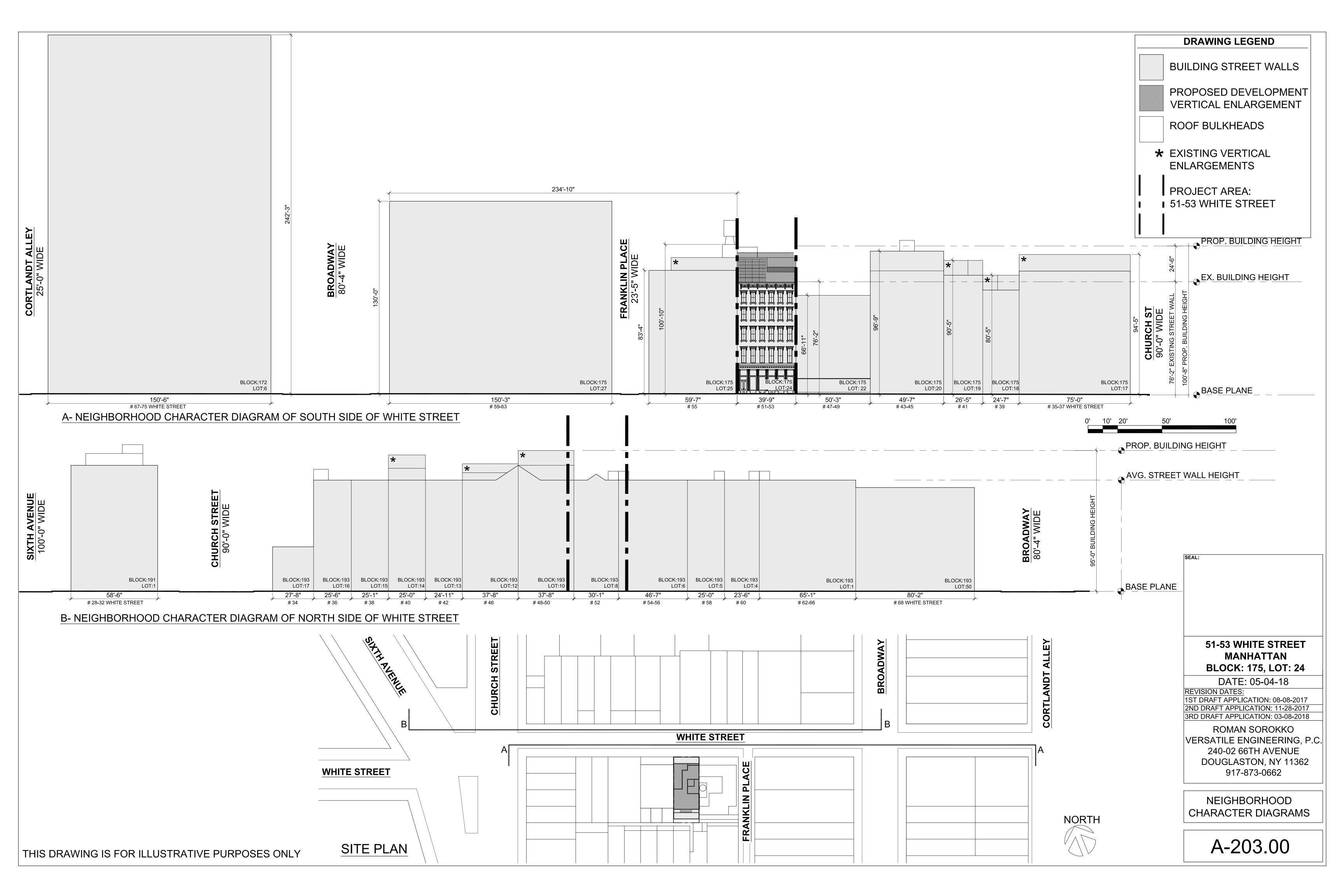


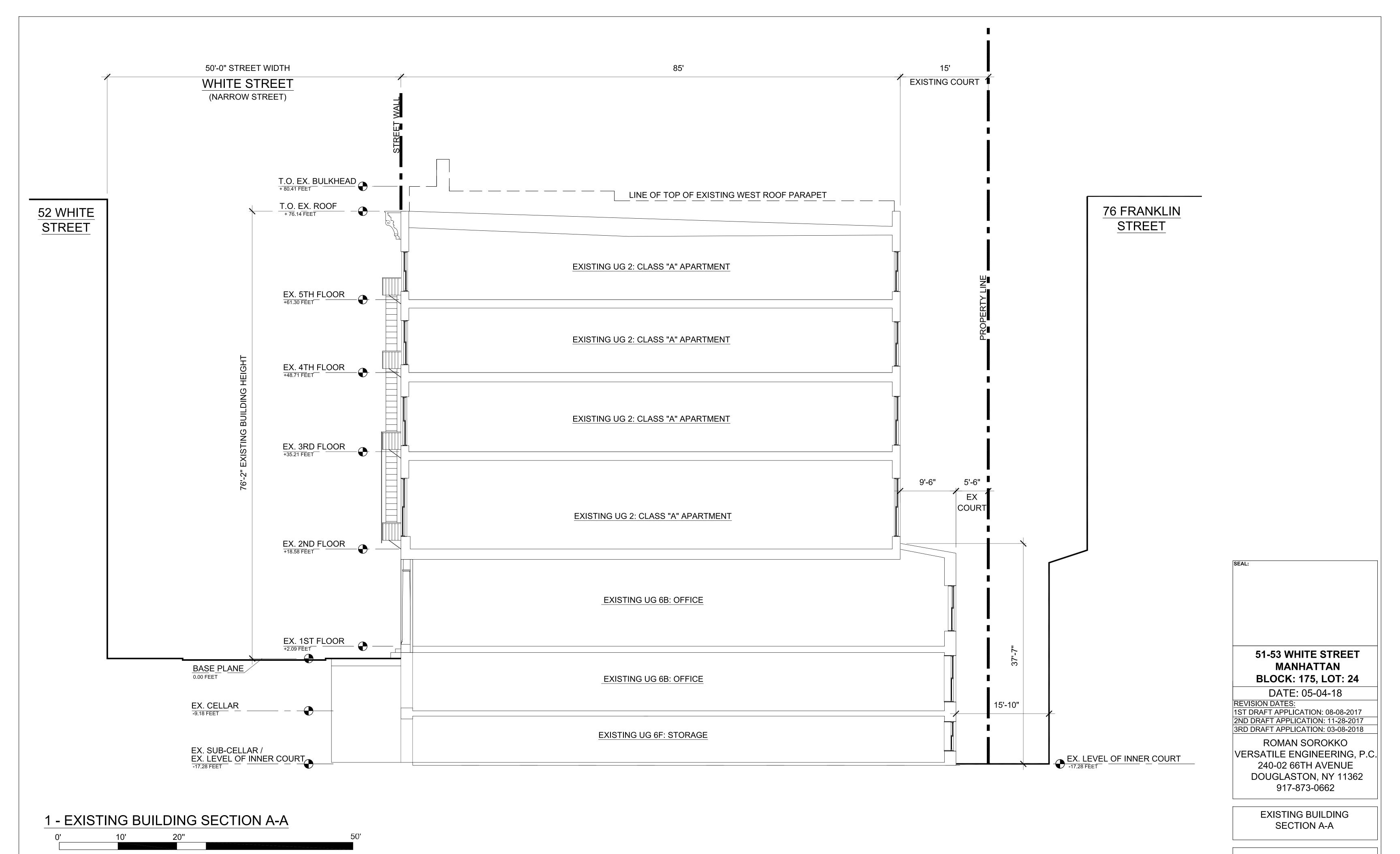












A-300.00

51-53 WHITE STREET, MANHATTAN

NEW MEZZANINE & APT. LAYOUTS, CHANGE OF EGRESS & RESTORATION WORK

DRAWING LIST

ARCHITECTURAL

T-000 SCOPE OF WORK, HISTORIC DISTRICT MAP, DRAWING LIST, SITE SURVEY, INSPECTIONS, DOB NOTES & LEGEND Z-001 PLOT PLAN, TABLE 3-4 AND ZONING ANALYSIS Z-002 FLOOR AREA DIAGRAMS A-001 MULTIPLE DWELLING, GENERAL & CONSTRUCTION NOTES A-002 **GENERAL NOTES** DM-100 SUB-CELLAR, CELLAR & FIRST FLOOR DEMOLITION PLANS DM-101 SECOND THROUGH FIFTH FLOOR DEMOLITION PLANS SUB-CELLAR, CELLAR & 1ST FLOOR PROPOSED PLANS 1ST MEZZ,2ND,3RD 4TH & 5THFLOOR PROPOSED PLANS A-101 A-102 **ROOF PLAN** A-200 EXISTING AND PROPOSED WHITE STREET ELEVATIONS EXISTING AND PROPOSED REAR ELEVATIONS A-201

A-300 **EXISTING BUILDING SECTION A-A** A-301 PROPOSED BUILDING SECTION A-A

EXISTING AND PROPOSED BUILDING SECTION B-B. A-302

EXISTING WOOD WINDOW DETAILS A-400

A-401 PROPOSED WOOD WINDOW DETAILS A-402 WINDOW & DOOR TYPES AND SCHEDULES

PARTITION AND FLOOR DETAILS A-403 A-404 STAIR DETAILS

A-405 HANDICAP DETAILS A-406 HANDICAP DETAILS EN-001 **ENERGY ANALYSIS**

EN-002 LIGHTING PLANS AND NOTES

STRUCTURAL

S-001 **GENERAL NOTES** S-002 FOUNDATION PLAN S-003 **CELLAR PLAN** S-004 FIRST FLOOR PLAN

S-005 FIRST FLOOR MEZZANINE PLAN

S-006 SECOND FLOOR PLAN

S-007 THIRD, FOURTH & FIFTH FLOOR PLANS

S-008 **ROOF PLAN**

S-110 **BUILDING SECTION** S-111 SECTIONS AND DETAILS

SPRINKLER & STANDPIPE

SPRINKLER NOTES & SYMBOLS SP-002 SPRINKLER NOTES & PLOT PLAN SP-003 SPRINKLER SUB-CELLAR AND CELLAR PLANS SP-004 SPRINKLER FIRST FLOOR & FIRST FLOOR PLANS SP-005 SPRINKLER 2ND THROUGH FIFTH FLOOR PLANS

SPRINKLER RISER DIAGRAM SP-006 SP-007 SPRINKLER DETAILS

P-001 PLUMBING NOTES AND PLOT PLAN P-002 PLUMBING SUB-CELLAR & CELLAR PLANS P-003 PLUMBING 1ST & 1ST FLOOR MEZZ PLANS P-004 PLUMBING 2ND-5TH FLOOR PLANS P-005 **ROOF PLAN & GAS RISER** P-006 PLUMBING SANITARY RISER DIAGRAM

P-007 PLUMBING DOMESTIC RISER DIAGRAM

P-008 PLUMBING RISER DIAGRAM

P-009 PLUMBING DETAILS

P-110 PLUMBING RPZ & DCDA INSTALLATION

SCOPE OF WORK

- 1. SUB-CELLAR EXCAVATION FOR ELEVATOR PIT. 2. INTERIOR RESIDENTIAL AND COMMERCIAL
- RENOVATIONS INCLUDING NEW VERTICAL CORE
- 3. NO CHANGE OF USE IS BEING PROPOSED UNDER THIS APPLICATION.
- 4. DOMESTIC HOT WATER AND HEATING WILL BE PROVIDED BY EXISTING BOILER AND STORAGE TANKS.

LPC NOTE

- 1. EXTERIOR RESTORATION WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE DRAWINGS.
- 2. SEE CULTURAL HERITAGE CONSERVATION' RESTORATION REPORT FOR COMPLETE SCOPE OF

OTHER APPLICATIONS

- 1. LPC CNE #19-01576
- 2. ALT 2 #122336748 INTERIOR DEMO
- 3. SUBSEQUENT STRUCTURAL & FOUNDATION (DOC 2)
- 4. SUBSEQUENT SPRINKLER & STANDPIPE (DOC 3)
- 5. SUBSEQUENT PLUMBING & MECHANICAL (DOC 4)
- 6. SUBSEQUENT FENCE (DOC 5)

DOB NOTES

- 1. TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE **ENERGY CONSERVATION CONSTRUCTION CODE** OF NEW YORK STATE.
- 2. THIS PROPERTY IS NOT LOCATED IN A FLOOD HAZARD ZONE.
- 3. THE ENGINEER DESIGNATED FOR CONTROLLED INSPECTION OF CONSTRUCTION REQUIRED FOR OR AFFECTING THE SUPPORT OF ADJACENT PROPERTIES OR BUILDINGS REQUIRED BY SECTION 27-724 (C26-1112.6) SHALL INSTITUTE A MONITORING PROGRAM FOR ADJACENT HISTORIC STRUCTURES AND FOR ANY EXISTING STRUCTURE DESIGNATED BY THE COMMISSIONER WITHIN A LATERAL DISTANCE OF NINETY FEET FROM THIS
- 4. TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE **ENERGY CONSERVATION CONSTRUCTION CODE** OF NEW YORK STATE.
- 5. ALL WORK SHALL COMPLY WITH TPPN 10/88
- 6. JOB HAS BEEN FILED TO COMPLY WITH 1968 BC.

SPECIAL & PROGRESS INSPECTIONS

		STRUCTURAL STEEL - WELDING	BC1704.3.1
	2.	STRUCTURAL STEEL - ERECTION AND BOLTING	BC1704.3.2,BC1704.3.3
	3.	CONCRETE - CAST-IN-PLACE	BC1704.4
	4.	MASONRY	_BC1704.5
	5.	SOILS - INVESTIGATIONS (BORING / TEST PITS)	BC1704.7.4
	6.	STRUCTURAL SAFETY - STRUCTURAL STABILITY	BC1704.19
	7.	EXCAVATION - SHEETING, SHORING AND BRACING_	BC1704.19,BC 3304.4.1
		FIRE-RESTIVE RATED CONSTRUCTION	
	9.	FIRESTOP, DRAFTSTOP AND FIREBLOCK SYSTEMS_	BC1704.25
	10.	CONCRETE - DESIGN MIX	BC1905.3
	11.	CONCRETE - TEST CYLINDERS	BC1905.6
	12.	MECHANICAL SYSTEMSSPRINKLER SYSTEMS	_BC1704.15
_	14.	SPRINKLER SYSTEMS	_BC1704.23
	15.	STANDPIPE SYTEMS	BC1704.24
	16.	FOOTING AND FOUNDATIONS	BC110.3.1
	17.	ENERGY CODE COMPLIANCE	_BC109.3.5
		a.INSULATION AND PLACEMENT OF R VALUES (IA1,	
		b.FENESTRATION U-FACTOR AND PRODUCT RATING	G (IA23),(IIA3)
		c.FENESTRATION AREAS (IA5), (IIA5)	
		d.AIR SEALING AND INSULATION (IA6),(IIA6)	
		e.HVAC AND SERVICE WATER HEATING EQUIPMENT	-
		f. HVAC AND SERVICE WATER HEATING CONTROLS	
		g. HVAC INSULATION AND SEALING	
		h. DUCT LEAKAGE TESTING	
		I. LIGHTING IN DWELLING UNITS	
		j. INTERIOR POWER AND LIGHTING	
		k. LIGHTING CONTROLS	
		I. EXIT SIGNS	
		m. MAINTENANCE INFORMATION	

EXAMINED FOR ZONING EGRESS AND FIRE PREVENTION ONLY, AS PEAIDIR NO. 2 OF 1975

KENNETH FLADEN, R.A.

TPP1 NOTES

1.EGRESS WILL BE MAINTAINED FOR THE DURATION OF THE RENOVATION FROM ALL FLOORS FOR CONSTRUCTION WORKERS AND FIRST RESPONDERS FROM ALL FLOORS BY WAY OF THE EXISTING FIRE STAIR IN THE BUILDING TO REMAIN UNTIL NEW STAIRS ARE INSTALLED.

2.THE BUILDING IS VACANT AND WILL REMAIN VACANT DURING CONSTRUCTION.

3/4. ALL WORK WILL BE DONE IN ACCORDANCE WITH DOB DEBRIS REMOVAL POLICIES AND SANITARY STANDARDS. THE BUILDING IS VACANT.

5. STRUCTURAL STABILITY IS AFFECTED BY THIS APPLICATION SHORING WILL BE PROVIDED WHILE INTERIOR PARTITION WALLS ARE REMOVED.

6. WORK WILL BE DONE IN ACCORDANCE WITH ALL DOB NOISE RESTRICTIONS.

LEGEND



X WALL TYPE

ILLUMINATED EXIT SIGN WITH **EMERGENCY LIGHTS EXIT SIGN** SHOULD HAVE MAX 5WATT/SIDE.

EXISTING 3-HOUR FIRE-RATED WALL EXISTING WALL

EXISTING WALL TO BE DEMOLISHED

NEW 2-HOUR FIRE-RATED WALL

NEW 3-HOUR FIRE-RATED WALL NEW PARTITION (SEE TYPE TAG)



CO/SD

 \triangle

ILLUMINATED EXIT SIGN

X MECHANICAL DEDUCTION TAG

COMBINATION HARD-WIRED CARBON MONOXIDE AND SMOKE DETECTOR (TO COMPLY WITH RS 17-13 AND INSTALLED IN ACCORDANCE WITH RS 17-14).

X-Y DOOR TYPE

REVISION NUMBER

NEW (N)

EXISTING (E) **FPSC** FIREPROOF, SELF-CLOSING

FOR DOB APPROVAL 04 20 2017 FOR PRE-BID 03.30.2017 Date:

Versatile Engineering P.C 240-02 66TH AVF. DOUGLASTON, NY 11362-1925 Tel.(917) 873-0662 Fax.(718) 247-5943 E mail. versatile.pc@gmail.com

51-53 WHITE STREET NEW YORK, N.Y. 10013

NOTES, SPECIAL INSPECTIONS, DRAWING LIST, SCOPE



& CICMATURE	DATE:	05.09.2017
OF NEW AN SOR	PROJECT No:	05-2012
AN SOROTE OF	DRAWING BY:	L.N.
*	СНК ВҮ:	R.S.
2800	T-00	0.00
SUCULAL END	CAD EILE No:	10

EXISTING BUILDING CHARACTERISTICS

ADDRESS: 51-53 WHITE STREET BOROUGH MANHATTAN BLOCK: LOT:

ZONING MAP NUMBER ZONING DISTRICT: C6-2A (R8A EQUIVALENT) EXISTING BUILDING HEIGHT: 75' 5 STORIES, CELLAR &

CONSTRUCTION CLASS: LOT AREA: SITE SURVEY DATED: **ERECTED UNDER BC:**

COMPLIES WITH BC: USE REGULATIONS AS PER ZR 22-12 & 32-12

ALL DWELLING UNITS MUST COMPLY WITH MDL 277.7(b)(i)(D) EXISTING USE: CLASS "A" APARTMENTS; UG 2 & COMMERCIAL UG 6 EXISTING CELLAR: UG 2 & 6 (ACCESSORY USE); METER, STORAGE

3 NON-FIREPROOF BUILDING

3,900 SQUARE FEET

08-31-2016

1938

& MECH ROOM EXISTING FIRST FLOOR: UG 6: COMMERCIAL & APT LOBBY EXISTING SECOND FLOOR: UG 2; (3) CLASS "A" APARTMENTS EXISTING THIRD FLOOR: UG 2; (3) CLASS "A" APARTMENTS EXISTING FOURTH FLOOR: UG 2; (3) CLASS "A" APARTMENTS EXISTING FIFTH FLOOR: UG 2; (2) CLASS "A" APARTMENTS

PROPOSED SUB-CELLAR USE: ACCESSORY STORAGE FOR CLASS "A" APARTMENTS & COMMERCIAL UG 6 (OFFICE) PROPOSED CELLAR: UG 2 ACCESSORY STORAGE FOR CLASS "A" APARTMENTS; MECHANICAL ROOMS & COMMERCIAL UG 6 (OFFICE) PROPOSED FIRST FLOOR: UG 6 (APT LOBBY) & UG 6 (OFFICE) PROPOSED FIRST FLOOR MEZZ: UG 2; CLASS "A" APARTMENT PROPOSED SECOND FLOOR: UG 2: CLASS "A" APARTMENT PROPOSED THIRD FLOOR: UG 2; CLASS "A" APARTMENT PROPOSED FOURTH FLOOR: UG 2; CLASS "A" APARTMENT PROPOSED FIFTH FLOOR: UG 2; CLASS "A" APARTMENT

MAXIMUM LOT COVERAGE AS PER ZR 23-145
MAXIMUM PERMITTED LOT COVERAGE = 80% (CORNER LOT LESS THAN 100' FROM CORNER 39'-0" X 100'-0" = 3,900 S.F. EXISTING FIRST FLOOR LOT COVERAGE 39-0" X 95'-0" = 3,705 S.F.

REQUIRED STREET TREES AS PER ZR 23-03 & 33-03

1 STREET TREE IS REQUIRED FOR EVERY 25-'0" OF FRONTAGE. EXISTING FRONTAGE = 39'-0" --- 39/25 = 1.56

PROPOSED WORK IS EXEMPT BECAUSE THIS IS NOT AN ENLARGEMENT EXCEEDING 20% OF FLOOR AREA AS PER THEREFOR 0 STREET TREES ARE REQUIRE AND 0 STREET TREES

REQUIRED PARKING AS PER ZR 25-20 40% OF PROPOSED DWELLING UNIT

EXISTING NON-COMPLIANCE - NO CHANGE

40* 4 = 1.6 = 2 PARKING SPACES PARKING SPACE REQUIREMENT IS WAIVED FOR LESS THAN 15

2 SPACES (REQUIRED) < 15 SPACES (AMOUNT OF SPACES ELIGIBLE

THEREFOR 0 PARKING SPACES ARE REQUIRED AND 0 PARKING

MINIMUM REQUIRED ENCLOSED BICYCLE PARKING SPACES AS PER ZR 25-80(a) BICYCLE PARKING SPACES WAIVED FOR BUILDINGS CONTAINING 10 OR LESS DWELLING UNITS

MAXIMUM NUMBER OF DWELLING UNITS AS PER ZR 23-22 & 15-111 ACTOR FOR DWELLING UNITS = 680

PROPOSED RESIDENTIAL FLOOR AREA = 15,036 SF 15,036 SF / 680 = 22 MAXIMUM DWELLING UNITS. 4 DWELLING UNITS (PROPOSED) < 23 (PERMITTED)

THEREFOR PROPOSED DWELLING UNIT COUNT COMPLIES MINIMUM SIZE OF DWELLING UNIT AS PER ZR 23-23 MINIMUM UNIT SIZE EQUALS 300 SQUARE FEET

PROPOSED MINIMUM UNIT SIZE =3,315 SF 3,315 SF(PROPOSED) > 300 SF (ALLOWABLE) THEREFOR PROPOSED MIN SIZE OF DWELLING UNIT COMPLIES MINIMUM LOT AREA OR WIDTH FOR RESIDENCES AS PER ZR 23-32

EXISTING = 100 X 39' =3,900 SF 3,900 SF (EXISTING) > 1,700 SF (MIN. PERMITTED) 39' (EXISTING WIDTH) > 18' (MIN. WIDTH)

THÈREFOR LOT AREA AND WIDTH COMPLY MINIMUM REQUIRED REAR YARDS AS PER ZR 23-47 & 23-541 & 33-26 EXISTING FIRST FLOOR REAR YARD = 5'-0" - NO CHANGE

EXISTING SECOND THROUGH FIFTH FLOOR REAR YARDS = 15'-0" - NO CHANGE

SIDE YARD REQUIREMENTS AS PER ZR 23-462(C) NO SIDE YARD REQUIRED, NO SIDE YARD PROPOSED THEREFOR BUILDING COMPLIES

FRONT YARD REQUIREMENTS AS PER ZR 35-51
NO SIDE FRONT REQUIRED, NO FRONT YARD PROPOSED

3,705 SF

THEREFOR BUILDING COMPLIES LAUNDRY FACILITIES AS PER ZR 28-13

THIRD

FOURTH

1.700 SF AND 18' WIDE MINIMUM

AT LEAST 1 WASHING MACHINE AS PER 20 DWELLING UNITS

AT LEAST 1 DRYER PER 40 DWELLING UNITS.

A WASHER AND DRYER IS PROPOSED WITHIN EACH DWELLING UNIT FOR A TOTAL OF4 WASHERS AND 4 DRYERS.

4 WASHER (PROPOSED) > 1 WASHER (MINIMUM) & 4 DRYERS (PROPOSED) > 1 DRYER (MINIMUM)

REQUIRED RECREATION SPACE AS PER ZR 28-21

AMOUNT OF RECREATION SPACE AS SET FORTH IN TABLE. 4 UNITS ARE PROPOSED THEREFOR RECREATION SPACE IS NOT REQUIRED

11.115 SE

FLOOR AREA CALCUALTIONS - SEE SHEET Z-002 FOR FLOOR AREA DIAGRAMS

BUILDING GROSS EXISTING NET PROPOSED GROSS EXISTING NET PROPOSED COMMERCIAL FA COMMERCIAL FA RESIDENTIAL FA RESIDENTIAL FA FLOOR SUB-CELLAR CELLAR* 3,705 SF 3,705 SF N/A N/A N/A 1,776 SF 3,705 SF 3,705 SF FIRST MEZZ 3,315 SF SECOND 3,315 SF

3.315 SF

3,315 SF

13,260 SF

3 315 SF

3,315 SF

HEIGHT AND SETBACK REGULATIONS AS PER ZR 23-641 & 23-662
MINIMUM BASE HEIGHT = 60'-0"; MAXIMUM BASE HEIGHT = 85'-0"

EXISTING BUILDING HEIGHT = 75'-0"

MAXIMUM HEIGHT OF FRONT WALL = 85'-0" OR NINE STORIES WHICHEVER IS LESS PROPOSED FRONT WALL = 75'-0" - NO CHANGE.

MAXIMUM BUILDING HEIGHT 120'-0" PROPOSED BUILDING HEIGHT = 75'-0" - NO CHANGE

MAXIMUM PERMITTED FLOOR AREA RATIOS FOR RESIDENTIAL BUILDING IN A R8A DISTRICT AS PER ZR 23-145 MAXIMUM PERMITTED RESIDENTIAL FLOOR AREA RATIO = 6.02

MAXIMUM PERMITTED RESIDENTIAL FLOOR AREA 3,900 S.F. (LOT SIZE) X 6.02 = 23,478 S.F. PROPOSED RESIDENTIAL FLOOR AREA = 15,036 S.F. (3.86 FAR)

SEE SHEET Z-002 FOR FLOOR AREA DIAGRAMS 15,036 S.F. (PROPOSED) < 23,478 S.F. (PERMITTED) THEREFORE PROPOSED FLOOR AREA COMPLIES

MAXIMUM PERMITTED COMMERCIAL FLOOR AREA RATIO AS PER 33-MAXIMUM COMMERCIAL FLOOR AREA RATIO = 6.00

MAXIMUM PERMITTED COMMERCIAL FLOOR AREA 3.900 S.F. (LOT SIZE) X 6.0 = 23.400 S.F.

FIRST FLOOR (EXISTING) = 3,705 S.F. 3,705 S.F. (PROPOSED) < 23,400 S.F. (PERMITTED).

THEREFORE PROPOSED COMMERCIAL FLOOR AREA COMPLIES.

YARD REQUIREMENTS AS PER ZR 33-25, 33-301 & 33-302 FOR BUILDINGS WITHIN 100'-0" OF THE CORNER

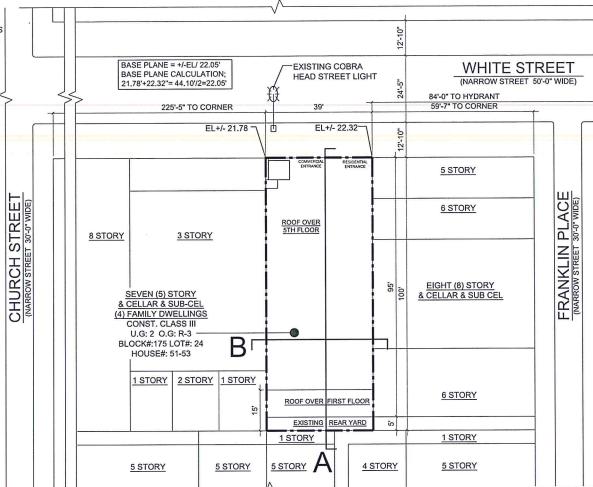
REAR YARD REQUIREMENTS AS PER ZR 23-471
THE BUILDING IS 60 FEET FROM THE CORNER., MINIMUM REQUIRED REAR YARD FOR BUILDINGS WITHIN 100 FEET OF THE CORNER = 30'-0" EXISTING SUB-CELLAR REAR YARD = 5'-0" NO CHANGE

EXISTING CELLAR REAR YARD = 5'-0" NO CHANGE EXISTING FIRST FLOOR REAR YARD = 5'-0" NO CHANGE

ALL DEVELOPMENTS WITH 9 OR MORE UNITS SHALL PROVIDE AT LEAST THE MINIMUM EXISTING SECOND-FIFTH FLOOR REAR YARDS = 15"-0" NO CHANGE

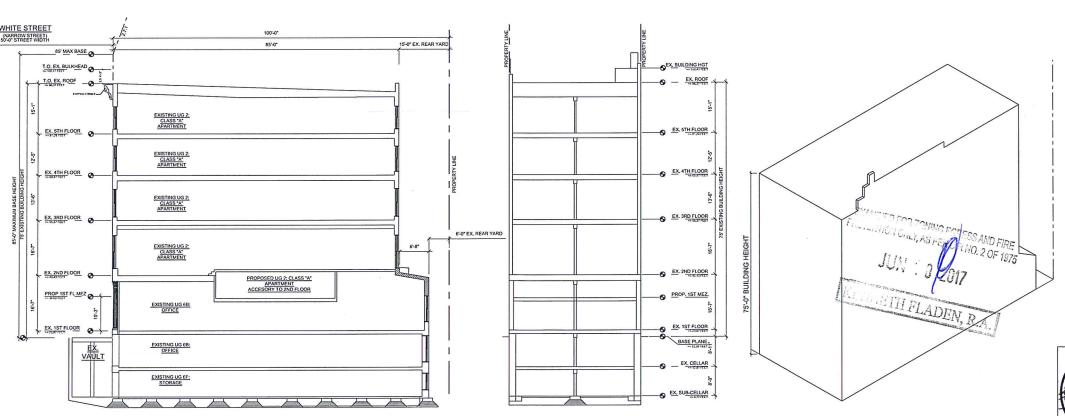
WINDOWS AS PER ZR 28-22 ALL PROPOSED WINDOWS ARE TO BE DOUBLE-GLAZED.

EXISTING GROSS COMMERCIAL SF = 11.115 SF EXISTING GROSS RESIDENTIAL SF = 13,260 SF TOTAL EXISTING GROSS SQUARE FEET = 24.375 SF EXISTING NET ZONING COMMERCIAL SF = 3,705 SF EXISTING NET ZONING RESIDENTIAL SF = 13,260 SF TOTAL EXISTING NET ZONING = TOTAL PROPOSED GROSS SQUARE FEET = 26,151 SF TOTAL PROPOSED NET ZONING SQUARE FEET = 18.741 SF 19,515 (TOTAL PROPOSED NET ZONING SF)< 23,478 SF (ALLOWABLE TOTAL NET ZONING SF) THEREFOR PROPOSED BULK COMPLIES



BULK DIAGRAM

SITE PLAN 1/16" = 1'-0"



FOR DOB APPROVAL FOR PRE-BID 03.30.2017 No: Description Date:

Versatile Engineering P.C. 240-02 66TH AVE. DOUGLASTON, NY 11362-1925 Tel.(917) 873-0662 Fax.(718) 247-5943 E mail. versatile.pc@gmail.com

PROJECT

51-53 WHITE STREET NEW YORK, N.Y. 10013

ZONING ANALYSIS PLOT PLAN, TABLE 3-4



DATE: 05.09.2017 PROJECT No: 05-2012 DRAWING BY: L.N. CHK BY: Z-001 CAD FILE NO

SECTION A-A

SECTION B-B

FLOOR AREA DIAGRAMS

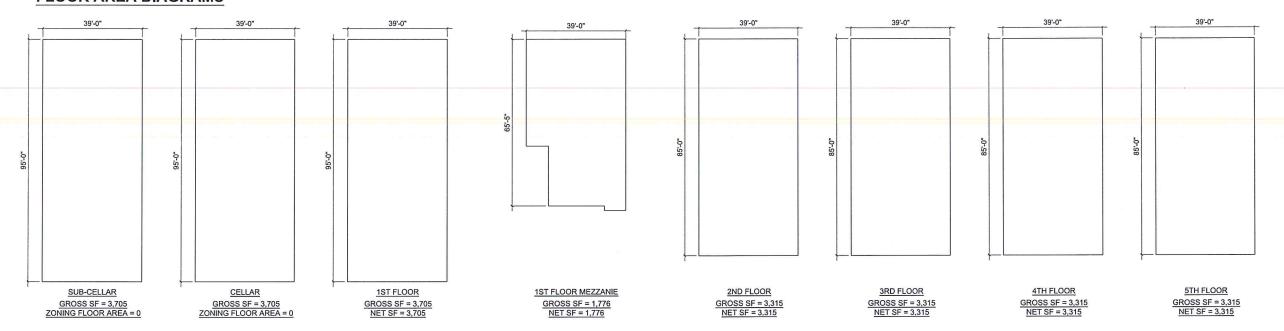


TABLE 3-4

Title 27 / Subchapter 3

				TABLE 3-4 (continu							v			
†TABLE 3-4 CONSTRUCTION		CONSTRUCTIO	ON ELEN	MENT	Rating		Rating	Ext. a.b. Open'g	ating		Rating	Ext. 4.5	Rating	Ext *
CLASSIFICATIONS (continued)	ith an	3'-0" or less		Bearing Non-bearing ^f	2 2	N.P.	2 2	N.P.	2	N.P.	2	N.P.	2	N.P.
	Walls with Separation	More than 3'- less than 15'-		Bearing Non-bearing ^c	2 2	3 1/3 % protected		3 1/3 % protected	2	3 1/3 % protected		6 2/3 %	1	6 2/3 9
CONSTRUCTION GROUP II		15'-0" or mor less than 30'-		Bearing Non-bearing ^f	2	3 1/3 %	2 2	3 1/3 %	2	3 1/3 %	1	N.L.	0	N.L.
COMBUSTIBLE	Exterior Exterior	30'-0" or mo		Bearing Non-bearing ^f	0	N.L.	11/2	N.L.	11/2	N.L.	0	IV.D.	0	14.6.
Required fire-resistance Interior bearing walls and bearing ratings of construction the fire divisions and fire separation for the divisions and fire separation.	vertical exits , exit pas	sageways	s, holstways " and shafts.	E320	2	57.00	2	See A	0 1 ¹ rticle 5	a de la composition della comp	LOPES		1	
based on the test procedures of reference	Columns ^k , girders, trusses Supporting one f		g one floor	27-6			1	0	or 1 ¹		1		0	
standard RS 3-1.	framing.				27-6	section 23		1	0 or 1 J			1		0
Key:	Structural me	mbers supporting a w	rating required f						sistance of wall supported, but not less than member by the class of construction.					
N.P.—Not permited	Floor constru	Floor construction including beams.			see section 27-623			1	0	or 1 i		1		0
N.L.—No limit	Roof constru	tion including beams.		or less in ht. above floor est member	27-6			3/4		0	3	/4		0
Noncombustible	trusses and fr arches, dome	ction including beams, aming, including s, shells, cable	15'-0" floor t	to 20'-0" in ht. above o lowest member	900 s 27-6	section 523		1/4		0	3	/4	_	0
Materials	supported roc	fs and roof decksh.	20'-0"	or more in ht. above to lowest member	27-6	section 23		3/4		0	3	/4		0

The ce subdivision (II of section 27-375 of article five of subchapter six of this chapter for subficilization impact pristance requirements applicable to certain said recoloures and for comise receptions to said recoloures confidence requirements. When two or more helitalizance constructed on the same lot, and the conducted force area of the buildings does not accord the limits containing the subdivision of the resistance states that the subdivision on the permitted same under containing shall be required for modestering protons of the tention value of rhose buildings facing each other, and there shall be no limitation on the permitted same of extrainer openings.

The translated sected wood complying with the requirements of section 27-328 of article three of subchapter (five of fills chapter may be used.)

Materials which are not necombestible, as defined in subchapter two of chapter one of this title, may be used in notbearing construction elements if they full into one of the following enterpoire.

1. Materials leving a structural base of nearconbestible meterials as defined in subchapter two, and having a surface not over one-eight in the high within when tested in accordance with the provisions of reference standard 83-32-las a finane spread ruling not higher than fifty.

2. Materials which when treated in accordance with the provisions of reference standard 83-32-las as finane spread ruling not higher than fifty or continued in the standard response of the composition that performs which would be exposed by cutting through the material in any way would not have a fame aprend ruling higher than twenty-five without avidence of continued progressive combustion.

121

EXAMINED FOR ZONING EGRESS AND FIRE PREVENTION ONLY, AS PER DIR NO. 2 OF 1975

KENNETH FLADEN, R.A.

2	FOR DOB APPROVAL	04.20.2017
1	FOR PRE-BID	03.30.2017
No:	Description:	Date:

Versatile Engineering P.C. 240-02 66TH AVE. DOUGLASTON, NY 11362-1925 Tel.(917) 873-0662 Fax.(718) 247-5943 E mail. versatile.pc@gmail.com

51-53 WHITE STREET NEW YORK, N.Y. 10013

PROPOSED FLOOR AREA **DIAGRAMS**

	SEAL & SIGNATURE
	TATE OF NEW LONAN SOROLOD
1	OMAN SOROLL OR
	100
樫	
13	POTESSIONAL EN
~	2800 ET
	-SSIONA-

& SIGNATURE	DATE:	05.09.201
F NEW	PROJECT No:	05-2012
SOROL OF	DRAWING BY:	L.N.
617	CUK BV.	D.C.

revision: October 1, 2004

MULTIPLE DWELLING LAW #277 OCCUPANCY PERMITTED

PARAGRAPH 1, SUBDIVISION (B):

1 WINDOW OPENINGS IN EXTERIOR WALLS ARE EXISTING AND THEY CONFORM TO TABLE 3-4

1. NON-FIRE PROOF CONSTRUCTION TO COMPLY WITH SECTION 101, TITLE #1, AS PER SUBDIVISION #2.

PARAGRAPH 3:

1. ANY PART OF THE BUILDING MAY BE OCCUPIED FOR MANUFACTURING OR COMMERCIAL PURPOSES (AS PERMITTED BY LOCAL ZONING LAW OR RESOLUTION) PROVIDED HOWEVER THAT ONLY ON THE SECOND FLOOR AND BELOW MAY BE OCCUPIED FOR LISTED AS MEDIUM FIRE HAZARD IN RULES OF THE BIS A LIMPLEMENTING THE LABOR LAW LINLESS THE ENTIRE BUILDING IS WET SPRINKLED; IN ADDITION, HIGH FIRE HAZARD OCCUPANCIES SHALL NOT BE PERMITTED IN ANY PORTION OF THE BUILDING

1. ALL MANUFACTURING AND COMMERCIAL AREAS SHALL BE PROTECTED BY AN APPROVED WET SPRINKLED SYSTEM, EXTENDING TO PUBLIC CORRIDORS, HALLWAYS AND STAIRS. WHICH COINCIDENTALLY SERVE RESIDENTIAL OCCUPANCIES.

PARAGRAPH 5

1. ALL TENANCIES, SHALL BE SEPARATED BY A VERTICAL FIRE SEPARATION, EXTENDING TO THE UNDERSIDE OF THE FLOOR ABOVE, AND HAVING A MIN. FIRE RESISTANCE OF ONE (1) HOUR. NO SEPARATION SHALL BE REQUIRED BETWEEN THE JOINT LIVING-WORKING QUARTERS FOR ARTIST.

PARAGRAPH 6:

1 THE BUILDING SHALL COMPLY WITH SURDIVISION (A) "OLD LAW TENAMENT", SECTION'(S) 212 AND 216, AND ON "CONVERTED DWELLINGS", SECTION'(S) 185, 186, 188, 189, 199, 191, AND 194 OF THIS CHAPTER.

PARAGRAPH 7. SUBDIVISION (B):

EVERY LIVING ROOM SHALL:

- 1. EVERY DWELLING UNIT SHALL HAVE ONE OR MORE WINDOWS:
- (E) IN NO EVENT SHALL THE DISTANCE BETWEEN SUCH WINDOWS AND REAR LOT LINE BE LESS THAN FIVE FEET. 2. MINIMUM REQUIRED RATIO OF WINDOW AREA OPENING ONTO A STREET, REAR YARD, OR COURT TO THE FLOOR AREA OF
- (D) AT LEAST 50% OF THE REQUIRED WINDOW AREA SHALL BE OPERARIE-
- (c) VENTILATION OF OTHER SPACES OTHER THAN LIVING ROOMS AS PER THIS SECTION OR IN ACCORDANCE WITH N.Y.C. ADMINISTRATIVE CODE.
- (d) NO INTERIOR FLOOR ENLARGEMENT, EXCEPT THAT OF A MEZZANINE SHALL BE PERMITTED WHICH DOES NOT EXCEED ONE-THIRD, OF THE FLOOR AREA AND WITH HEAD ROOM OF 7'-0' (e) OPEN KITCHENS WITH FLOOR AREA'(S) FOR VENTILATION AS
- (1) NATURAL VENTILATION AND OR:
- (2) MECHANICAL VENTILATION
- (f) VENTILATION OF BATHROOMS AND TOILETS. (NATURAL OR MECHANICAL)
- (g) SMOKE DETECTOR COMPLIANCES.

1. OPENINGS FROM APARTMENTS TO HALLWAYS SHALL BE PROVIDED WITH F.P.S.C. DOORS: PARTITIONS TO BE ONE (1) HOUR RATED BETWEEN APARTMENTS, AND ALL WINDOWS AT FIRE ESCAPE SHALL HAVE WIRE GLASS UNLESS A WET SPRINKLED WITH ONE (1) HEAD PER WINDOW IS PROVIDED.

PARAGRAPH 9, SUBDIVISION B:

- 1. AS PER (4) EGRESS CONFORMING WITH THE PROVISIONS OF SECTION 102, OF THIS CHAPTER:
- (4) TWO HOUR FIRE RATED IN ALL OTHER CASES. (c) NO MORE THAN TWO (2) APARTMENTS SHALL OPEN DIRECTLY TO A STAIR WITHOUT AN INTERVENING ENCLOSED HALL WAY:
- (f) THE TRAVEL DISTANCE TO THE MEANS OF EGRESS SHALL COMPLY WITH THE N.Y.C. ADMINISTRATIVE CODE. (b) REQUIRED STAIRS TO EXTEND THRU THE ROOF BY A BULKHEAD ON BUILDINGS, WHICH EXCEED 4-STORIES AND OR HAS 15, PITCHED ROOF.

PARAGRAPH 10:

1. WINDOWS TO BE PROVIDED IN STAIRWAYS, WITH MOVABLE VENTILATORS, WIRE SCREEN, AND GLAZED WITH PLAIN GLASS, VENTILATION OF 144 SF.

GENERAL CONDITIONS

- 1. THE "ARCHITECT" REFERRED TO THROUGHOUT THE GENERAL NOTES SHALL MEAN JOSEPH PELL LOMBARDI & ASSOCIATES, THE "OWNER" SHALL MEAN ETOILE 660 MADISON, LLC.
- 2. THE GENERAL CONTRACTOR AND/OR BUILDING CONTRACTOR IS TO PROVIDE EVERYTHING NECESSARY FOR THE COMPLETION OF THE WORK SHOWN IN ALL DRAWINGS, WITH THE EXCEPTION OF THOSE ITEMS INDICATED BY OTHERS: IN ALL CASES, THE CONTRACTOR IS TO COORDINATE HIS WORK WITH THE VARIOUS "BY OTHERS", WHICH WILL MEAN CONTRACTORS UNLESS SPECIFICALLY
- 3. THE CONTRACTOR WILL BE FURNISHED, FREE OF CHARGE, ONE SEPIA TRANSPARENCY AND ONE SET OF BLACK AND WHITE PRINTS OF THE DRAWINGS AND SPECIFICATIONS FOR THE EXECUTION OF THE WORK, IF REQUESTED IN WRITING, ADDITIONAL COPIES WILL BE PROVIDED AT REPRODUCTION AND HANDLING COST.
- 4. THE CONTRACTOR SHALL CAREFULLY STUDY AND COMPARE THE CONTRACT DOCUMENTS AND 4. THE CONTRACTOR SHALL CAREFULLY STUDY AND COMPARE THE CONTRACT DOCUMENTS AND SHALL AT ONCE REPORT TO THE ARCHITECT ANY ERROR, INCONSISTENCY OR OMISSION THAT HE MAY DISCOVER. THE CONTRACTOR SHALL BE LIABLE TO THE OWNER AND THE ARCHITECT FOR ANY DAMAGE RESULTING FROM ANY SUCH ERRORS, INCONSISTENCIES, OR OMISSIONS IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL DO NO WORK WITHOUT DRAWINGS, SPECIFICATIONS, OR MODIFICATIONS. THE DRAWINGS AND SPECIFICATIONS RELATIVE TO EXISTING CONSTRUCTION SHOW CONDITIONS AS THEY ARE BELIEVED TO EXIST, BUT IT IS NOT INTENDED OR TO BE INFERRED THAT THE CONDITIONS SHOWN ON THE DRAWINGS CONSTITUTE A REPRESENTATION BY OWNER OF SUCH CONDITIONS.
- 5. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK USING HIS BEST SKILL AND ATTENTION. HE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES, AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
- LAYING OUT THE WORK: THE CONTRACTOR SHALL VERIFY THE LAYOUT OF THE WORK, AND ALL RELATED WORK, AND SHALL PROVIDE FOR HIMSELF AND FOR ALL SUB-CONTRACTORS AND SEPARATE CONTRACTORS THE NECESSARY LINES, LEVELS, MEASUREMENTS, AND LOCATIONS, AND SEPARATE CONTRACTORS THE NECESSARY LINES, LEVELS, MEASUREMENTS, AND LOCATIONS, AND SHALL ASSUME COMPLETE RESPONSIBILITY FOR THEIR CORRECTINESS. EXTRA CHARGES OR COMPENSATION WILL NOT BE ALLOWED ON ACCOUNT OF DIFFERENCES BETWEEN ACTUAL MEASUREMENTS AND THE DIMENSIONS SHOWN ON THE DRAWINGS. BUT ANY SUCH DIFFERENCES THAT MAY BE FOUND SHALL BE SUBMITTED TO THE ARCHITECT FOR ADJUSTMENT BEFORE PROCEEDING WITH WORK.

 SUPERINTENDENCE: THE CONTRACTOR SHALL PROVIDE A FULLY QUALIFIED AND ADEQUATE FIELD STAFF, INCLUDING AN APPROVED PROJECT PROJECT SUPERINTENDENT AND ADMINISTRATOR AND OTHER PERSONNEL REQUIRED IN ORDER TO A SSUME COMPLETE AND COMPREHENSIVE SUPERVISION, ADMINISTRATION AND COORDINATION OF ALL WORK, SUCH SUPERINTENDENCE OF A DESIGNATIVE MEMBERS OF HIS STAFF IN HIS ABSENCE.
- WORK BY THE PROJECT SUPERINTENDENT OR A DESIGNATED MEMBER OF HIS STAFF IN HIS ABSENCE SHALL BE CONTINUOUS AT ALL TIMES WHEN WORK OF ANY KIND IS IN PROGRESS.
- 6. UNLESS OTHERWISE NOTED, THE CONTRACTOR SHALL PROVIDE AND PAY FOR ALL LABOR MATERIALS, EQUIPMENT, TOOLS, CONSTRUCTION EQUIPMENT AND MACHINERY, WATER, HEAT UTILITIES, TRANSPORTATION AND OTHER FACILITIES AND SERVICES NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK
- 7 THE CONTRACTOR SHALL AT ALL TIMES ENFORCE STRICT DISCIPLINE AND GOOD ORDER AMONG
- 8. CONTRACTOR WARRANTS TO THE OWNER AND THE ARCHITECT THAT ALL MATERIAL AND EQUIPMENT FURNISHED UNDER THIS CONTRACT WILL BE NEW UNLESS OTHERWISE SPECIFIED, AND THAT ALL WORK WILL BE COMPLETED IN GOOD, CAREFUL AND WORKMAN LIKE MANNER, IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, AND WILL BE OF FIRST-CLASS QUALITY, FREE FROM FAULTS AND DEFECTIS. ALL WORK NOT CONFORMING TO THESE STANDARDS WILL BE CONSIDERED DEFECTIVE. CONTRACTOR AGREES THAT HE WILL REPLACE OR REPAIR ANY DEFECTIVE WORK, OR WORK THAT IS OTHER THAN SPECIFIED, OR DOES NOT PERFORM THE FUNCTION FOR WHICH IT WAS DESIGNED, AND WILL REIMBURSE THE OWNER FOR ANY EXPENSE IN CONNECTION WITH ANY DAMAGE DONE TO ANY PROPERTY BY REASON OF ANY OF SAID CAUSES, OR BY REASON OF THE REMOVAL AND REPLACEMENT OF WORK DOME BY CONTRACTORS, OR OF THE REMOVAL AND REPLACEMENT OF WORK DONE BY CONTRACTOR, SUBCONTRACTORS, OF
- 10. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS. GOVERNMENTAL FEES AND APPLICABLE AT THE TIME THE BIDS ARE RECEIVED.
- 11. THE CONTRACTOR SHALL BE RESPONSIBLE AND PAY FOR CONTROLLED INSPECTION OF 11. THE CONTRACTOR SHALL BE RESPONSIBLE AND PAY FOR CONTROLLED INSPECTION OF MATERIALS AND CONSTRUCTION METHODS IN ACCORDANCE WITH ALL LAWS, ORDINANCES, RULES AND REGULATIONS OF THE NEW YORK CITY BUILDING DEPARTMENT AND OTHER AUTHORITIES HAVING JURISDICTION. THIS SHALL INCLUDE, BUT NOT LIMITED TO, CONTROLLED INSPECTION OF CONTRACTORS PERMITS; FILING AND APPROVAL, OF MISCELLANEOUS APPLICATIONS; HEALTH DEPARTMENT APPROVALS; FIRE DEPARTMENT APPROVALS; CONSTRUCTION SIGH-OFF AND RELATED FIELD INSPECTIONS; SECURING OF AMENDED CERTIFICATE OF OCCUPANCY, ETC.
- ALL OF HIS EMPLOYEES AND ALL SUBCONTRACTORS, THEIR AGENTS AND EMPLOYEES, AND ALL OTHER PERSONS PERFORMING ANY OF THE WORK UNDER A CONTRACT WITH THE CONTRACTOR.
- 13. THE CONTRACTOR, IMMEDIATELY AFTER BEING AWARDED THE CONTRACT, SHALL PREPARE AND SUBMIT FOR THE ARCHITECT'S APPROVAL AN ESTIMATED PROGRESS SCHEDULE FOR THE WORK, THE PROGRESS SCHEDULE SHALL BE RELATED TO THE ENTIRE PROJECT TO THE EXTENT REQUIRED BY THE CONTRACT DOCUMENTS, THIS SCHEDULE SHALL INDICATE THE DATES FOR THE START AND COMPLETION OF THE VARIOUS STAGES OF CONSTRUCTION, AND SHALL BE REVISED AS REQUIRED BY THE CONDITIONS OF THE WORK, SUBJECT TO THE ARCHITECT'S APPROVAL
- 14. THE CONTRACTOR SHALL MAINTAIN AT THE SITE FOR THE OWNER ONE COPY OF ALL DRAWINGS. SPECIFICATIONS, ADDENDA, APPROVED SHOP DRAWINGS, CHANGE ORDERS, AND OTHER MODIFICATIONS, IN GOOD ORDER AND MARKED TO RECORD ALL CHANGES MADE DURING TRUCTION, SHALL BE DELIVERED TO HIM FOR THE OWNER UPON COMPLETION OF THE WORK.
- 15 THE CONTRACTOR SHALL REVIEW STAMP WITH HIS APPROVAL AND SURMIT WITH REASONABLE 15. THE CONTRACTOR SHALL REVIEW, STAMP WITH HIS APPROVAL AND SUBMIT, WITH REASONABLE PROMPTHESS AND IN ORDERLY SEQUENCE SO AS TO AVIO DELAY IN THE WORK OF ANY OTHER CONTRACTOR, ALL SHOP DRAWINGS AND SAMPLES REQUIRED BY THE CONTRACTOR ALL SHOP DRAWINGS AND SAMPLES REQUIRED BY THE CONTRACT DOCUMENTS OR SUBSCOLDENTLY BY THE ARCHITECT AS COVERED BY MODIFICATIONS, SHOP DRAWINGS AND SAMPLES SHALL BE PROPERLY DENTIFIED AS SPECIFED, OR AS THE ARCHITECT MAY REQUIRE AT THE TIME OF SUBMISSION THE CONTRACTOR SHALL INFORM THE ARCHITECT IN WRITING OF ANY DEVARTION IN THE SHOP DRAWING OF SAMPLES FROM THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
- 16. BY APPROVING AND SUBMITTING SHOP DRAWINGS AND SAMPLES, THE CONTRACTOR THEREBY REPRESENTS THAT HE HAS DETERMINED AND VERIFIED ALL FIELD MEASUREMENTS, FIELD CONSTRUCTION CRITERIA, MATERIALS, CATALOGUE NUMBERS AND SIMILAR DATA-OR WILL DO SO-AND THAT HE HAS CHECKED AND COORDINATED EACH SHOP DRAWING AND SAMPLE WITH THE REQUIREMENTS OF THE WORK AND OF THE CONTRACT DOCUMENTS.
- 17. THE ARCHITECT WILL REVIEW AND APPROVE SHOP DRAWINGS AND SAMPLES WITH REASONABLE PROMPTNESS SO AS TO CAUSE NO DELAY, BUT ONLY FOR CONFORMITY WITH THE DESIGN CONCEPT OF THE PROJECT AND WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. THE TOVAL OF A SEPARATE ITEM SHALL NOT INDICATE APPROVAL OF AN ASSEMBLY IN
- 18. THE CONTRACTOR SHALL MAKE ANY CORRECTIONS REQUIRED BY THE ARCHITECT AND SHALL RESUBMIT THE REQUIRED NUMBER OF CORRECTED COPIES OF SHOP DRAWINGS OR NEW SAMPLE UNTIL APPROVED.

19. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY SERVICES, INCLUDING ELECTRIC POWER, LIGHT, WATER AND HEAT REQUIRED TO EXECUTE THE WORK PROPERLY, INCLUDING TEMPORARY PIPING CONNECTIONS, ETC. AND THE REMOVAL OF SAME AS AND WHEN REQUIRED, WATER AND ELECTRIC CURRENT (AS AVAILABLE) WILL BE WITHOUT COST TO THE CONTRACTOR AT LOCATIONS DESIGNATED BY THE OWNER, ANY OTHER CHARGES INCURRED IN CONNECTION WITH TEMPORARY SERVICES SHALL BE BORNE BY THE CONTRACTOR, OFFICE AND TELEPHONE THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY OFFICE SPACE AT THE PREMISES, WHERE HE SHALL KEEP ON FILE AT ALL TIMES A COPY OF THE LATEST DRAWINGS, SPECIFICATIONS AND SHOP DRAWINGS AND SAMPLES OF MATERIALS, THE OFFICE LOCATION SHALL BE APPROVED BY THE OWNER AND PROVIDED WITH LIGHT, HEAT AND TELEPHONE, THE CONTRACTOR SHALL ARRANGE AND PAY FOR THE COSTS OF TELEPHONE INSTALLATION, WHICH SHALL BE FOR THE USE OF ALL EMPLOYED LIPON THE WORK, TELEPHONE SHALL BE LOCATED IN THE TEMPORARY FIELD OFFICE AND SHALL BE REMOVED UPON COMPLETION OF THE WORK

IN ADDITION, TELEPHONE SERVICES SHALL BE PROVIDED IN THE FIELD QUARTERS FOR USE OF OWNER'S AND ARCHITECT'S REPRESENTATIVES, AND CONTRACTOR SHALL ASSUME COST FOR SAME.

20. THE CONTRACTOR SHALL DO ALL CUTTING, FITTING OR PATCHING OF HIS WORK THAT MAY BE REQUIRED TO MAKE ITS SEVERAL PARTS FIT TOGETHER PROPERLY, AND SHALL NOT ENDANGER ANY WORK BY CUTTING, EXCAVATING OR OTHERWISE ALTERING THE WORK OR ANY PART OF IT.

21, THE CONTRACTOR AT ALL TIMES SHALL KEEP THE PREMISES FREE FROM ACCUMULATION OF WASTE MATERIALS OR RUBBISH CAUSED BY HIS OPERATIONS, AT THE COMPLETION OF THE WORK HE SHALL REMOVE ALL HIS WASTE MATERIALS AND RUBBISH FROM AND ABOUT THE PROJECT, AS WELLAS ALL HIS TOOLS, CONSTRUCTION FOUIPMENT, MACHINERY AND SURPLUS MATERIALS, AND SHALL CLEAN ALL GLASS SURFACES AND LEAVE THE WORK BROOM-CLEAN OR ITS EQUIVALENT, EXCEPT AS OTHERWISE SPECIFIED

22. THE CONTRACTORS SHALL INDEMNIFY AND HOLD HARMLESS THE OWNER AND THE 22. THE CONTRACTORS SHALL INDEMNIFY AND HOLD HARMLESS THE OWNER AND THE ARCHITECT AND THEIR AGENTS AND EMPLOYEES FROM AND AGAINST ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES - INCLUDING ATTORNEYS' FEES ARISING OUT OF OR RESULTING FROM THE PERFORMANCE OF THE WORK, PROVIDED THAT ANY SUCH CLAIM, DAMAGE, LOSS OR EXPENSE (1) IS ATTRIBUTABLE TO BODIL'I INJURY, SICKNESS, DISEASE OR DEATH, OR TO INJURY TO OR DESTRUCTION OF TANGIBLE PROPERTY (OTHER THAN THE WORK ITSELF) INCLUDING THE LOSS OF USE RESULTING THEEREFROM; AND (2) IS CAUSED IN WHOLE OR IN PART BY ANY NEGLIGENT ACT OR OMISSION OF THE CONTRACTOR, ANY SUBCONTRACTOR, ANYONE DIRECTLY OR INDIRECTLY EMPLOYED BY ANY OF THEM, OR ANYONE FOR WHOSE ACTS ANY OF THEM MAY BE LIBBLE. RECARDLESS OF WHETHER OR NOT IT IS CAUSED IN PART BY A PARTY INDEMNIFIED HEREI MINDIE

23. UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS OR IN THE INSTRUCTIONS TO BIDDERS, THE CONTRACTOR, AS SOON AS PRACTICABLE AFTER THE AWARD OF THE CONTRACT SHALL FURNISH TO THE ARCHITECT IN WRITING FOR ACCEPTANCE BY THE OWNER AND THE ARCHITECT A LIST OF THE NAMES OF THE SUBCONTRACTORS PROPOSED FOR THE PRINCIPAL PORTIONS OF THE WORK. THE ARCHITECT SHALL PROMPTLY NOTIFY THE CONTRACTOR IN WRITING IF EITHER THE OWNER OR THE ARCHITECT, AFTER DUE INVESTIGATION HAS REASONABLE OBJECTION TO ANY SUBCONTRACTOR IN SUCH LIST, AND DOES NOT ACCEPT HIM. FAILURE OF THE OWNER OR ARCHITECT TO MAKE OBJECTION PROMPTLY TO ANY SUBCONTRACTOR ON THE LIST SHALL CONSTITUTE ACCEPTANCE OF SUCH SUBCONTRACTOR.

24. THE CONTRACTOR SHALL NOT MAKE ANY SUBSTITUTION FOR ANY SUBCONTRACTOR OR PERSON OR ORGANIZATION WHO HAS BEEN ACCEPTED BY THE OWNER AND THE ARCHITECT, UNLESS THE SUBSTITUTION IS ACCEPTABLE TO THE OWNER AND THE ARCHITECT.

25 THE CONTRACTOR SHALL AFFORD OTHER CONTRACTORS REASONABLE OPPORTUNITY FOR THE CONTRACTOR SHALL AFFORD OTHER CONTRACTORS REASONABLE OFFORD UNIT FOR IEINTRODUCTION AND STORAGE OF THEIR MATERIALS AND EQUIPMENT AND THE EXECUTION THEIR WORK, AND SHALL CONNECT AND COORDINATE HIS WORK WITH THEIRS PROPERLY.

26. IF ANY PART OF THE CONTRACTOR'S WORK DEPENDS FOR PROPER EXECUTION OR RESULTS UPON THE WORK OF ANY OTHER SEPARATE CONTRACTOR, THE CONTRACTOR SHALL INSPECT AND PROMPTLY REPORT TO THE ARCHITECT ANY APPARENT DISCREPANCIES OR DEFECTS IN SUCH WORK THAT RENDER IT UNSUITABLE FOR SUCH PROPER EXECUTION AND RESULTS. FAILURE OF THE CONTRACTOR TO INSPECT AND REPORT SHALL CONSTITUTE AN ACCEPTANCE OF THE OTHER CONTRACTOR'S WORK AS FIT AND PROPER TO RECEIVE HIS WORK, EXCEPT AS TO DEFECTS WHICH MAY DEVELOP IN THE OTHER SEPARATE CONTRACTOR'S WORK AFTER THE EXECUTION OF THE CONTRACTOR'S WORK.

27. THE CONTRACTOR SHALL BE GOVERNED BY THE LAW OF THE PLACE WHERE THE PROJECT IS LOCATED BUILDING OFFICIALS AND CODE ADMINISTRATORS AND ALL OTHER AGENCIES HAVING JURISDICTION OVER CODES AND REQUIREMENTS SHALL GOVERN THE CONSTRUCTION OF THIS

28. THE OWNER SHALL HAVE THE RIGHT TO REQUIRE THE CONTRACTOR TO FURNISH BONDS 26. THE VIWEN SHALL FAVE HE ADMINISTRATION TO REJUIN THE CONTRACT AND THE PAYMENT OF ALL OBLIGATIONS ARISING THEREOUNDER, AND AS REQUIRED IN THE INSTRUCTIONS TO BIDDERS OR ELSEWHERE IN THE CONTRACT DOCUMENTS, OWNER WILL ADVICE THE CONTRACTOR IN WRITIN IF SUCH BONDS ARE REQUIRED, AND THE OWNER WILL PAY THE COST.

29 THE CONTRACT DOCUMENTS LAWS ORDINANCES BUILES REGULATIONS OR ORDERS OF ANY 23. THE CONTINGL TO DOCUMENTS, LIVES, ORDINANCES, RULES, REQUESTIONS OF ROBERS OF ANY PUBLIC AUTHORITY HAVING JURISDICTION REQUIRE ANY WORK TO BE INSPECTED, TESTED OR APPROVED, THE CONTRACTOR SHALL GIVE THE ARCHITECT CERTIFICATION OF INSPECTION, TESTING OR APPROVAL THE CONTRACTOR SHALL BEAR ALL COSTS OF SUCH INSPECTIONS, TESTS AND APPROVALS UNLESS OTHERWISE PROVIDED.

30. REQUIRED CERTIFICATES OF INSPECTION, TESTING, OR APPROVAL SHALL BE SECURED BY THE CONTRACTOR, AND PROMPTLY DELIVERED BY HIM TO THE ARCHITECT.

31. THE CONTRACTOR SHALL TAKE ALL REASONABLE PRECAUTIONS FOR THE SAFETY OF, AND SHALL PROVIDE ALL REASONABLE PROTECTION TO PREVENT DAMAGE, INJURY OR LOSS TO:

1 ALL EMPLOYEES ON THE WORK AND ALL OTHER PERSONS

- WHO MAY BE AFFECTED THEREBY,
 2 ALL THE WORK AND ALL MATERIALS AND EQUIPMENT TO BE INCORPORATED THEREIN, WHETHER IN STORAGE ON OR OFF THE SITE, UNDER THE CARE, CUSTODY OR CONTROL OF THE CONTRACTOR OR ANY OF HIS SUBCONTRACTORS OR SUB-SUBCONTRACTORS: AND

SUBCONTRACTORS OR SUB-SUBCONTRACTORS; AND
3 OTHER PROPERTY AT THE SITE OR ADJACENT THERETO,
INCLUDING TREES, SHRUBS, LAWNS, WALKS, UTILITIES NOT
DESIGNATED FOR REMOVAL, RELOCATION OR REPLACEMENT
IN THE COURSE OF CONSTRUCTION.
32. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, RULES,
REGULATIONS AND LAWFUL (ORDERS OR PUBLIC AUTHORITY HAVING JURISDICTION FOR THE
SAFETY OF PERSONS OR PROPERTY OR TO PROTECT THEM FROM DAMAGE, INJURY, OR LOSS, HE
SHALL ERECT AND MAINTAIN, AS REQUIRED BY EXISTING CONDITIONS AND PROGRESS OF THE
WORK, ALL REASONABLE SAFEGUARDS FOR SAFETY AND PROTECTION, INCLUDING POSTING
DAMECES SIGNS AND OTHER WARPINGS AGAINST HAZABDS PROMILIC SAFETY REGULATIONS DANGER SIGNS AND OTHER WARNINGS AGAINST HAZARDS, PROMULGATING SAFETY REGULATIONS AND NOTIFYING OWNERS AND USERS OF ADJACENT UTILITIES.

33. THE CONTRACTOR SHALL SECURE, PAY FOR, AND MAINTAIN UNTIL ALL WORK IS COMPLETED, SUCH INSURANCE AS WILL PROTECT HIM, THE OWNERS AND ARCHITECT FROM CLAIMS UNDER WORKMEN'S COMPENSATION ACT, WORKMEN'S OCCUPATIONAL DESEASES ACT, AND FROM ANY OTHER CLAIMS FOR DAMAGES TO PROPERTY OR BODILY INJURY, INCLUDING DEATH, WHICH MAY ARISE FROM OPERATIONS UNDER THIS CONTRACT. WHETHER SUCH OPERATIONS BE BY THE CONTRACTOR OR ANY SUBCONTRACTOR OR ANYONE DIRECTLY OR INDIRECTLY EMPLOYED BY EITHER OF THEM REFORE PROCEEDING WITH ANY WORK, THE CONTRACTOR SHALL FURNISH TO EITHER VF THEM, BEFORE PROCEEDING WITH ANY WORK, THE CONTRACT OF ANALL PRIMISES THE OWNER CERTIFICATES OF INSURANCE IN DUPLICATE, AND ONE COPY O' THE ARCHITECT EXECUTED BY INSURANCE COMPANIES, APPROVED BY THE OWNER, TO EVIDENCE COVERAGE BY THE CONTRACTOR. THE CONTRACTOR SHALL KEEP SAID INSURANCE IN FULL FORCE UNTIL.

SUCH INSURANCE SHALL BE MODIFIED OR CANCELABLE ONLY ON WRITTEN NOTICE FROM SUCH INSURANCE COMPANIES, MAILED TO THE OWNER THIRTY (30) DAYS IN ADVANCE OF MODIFICATION OF CANCELLATION. HOLD HARMLESS OF OWNER AND ARCHITECT, THE CONTRACTOR AGREES TO PROTECT, DEFEND, INDEMNIFY AND SAVE HARMLESS THE OWNER, ARCHITECT, AND THEIR AGENTS AND EMPLOYEES, AGAINST ANY AND ALL LIABILITY ARISING FROM ANY ACT, OMISSION OR NEGLIGENCE, WHETHER REAL OR ALLEGED, OF CONTRACTOR AND ALL SUBCONTRACTORS, OR OF THE OFFICERS, AGENTS, SERVANTS OR EMPLOYEES OR EITHER, OR ARISING FROM ANY INJURY OR DAMAGE, WHETHER REAL OR ALLEGED, CAUSED TO ANY PERSON OF TO THE PROPERTY OF ANY PERSON OCCURING IN, ON, OR ABOUT THE PROJECT SITE DURING THE PERFORMANCE OF THE CONTRACT, AND THE CONTRACTOR SHALL INDEMNIFY OWNER, ARCHITECT, AND THEIR AGENTS AND EMPLOYEES, FOR ANY AND ALL COSTS, EXPENSES, ANDIOR LOSSES RESULTANT HEREFROM, EXCEPTING ONLY THE ACT, OMISSIONS AND INEGLIGENCE OF OWNER, AND ARCHITECT, NO PROVISIONS REQUIRING THE PURNISHING OF INSURANCE SHALL BE CONSTRUED TO A FFECT, IMPAIR OR EXCUSE CONTRACTOR'S OBLIGATION TO INDEMNIFY AND SAVE OWNER AND ARCHITECT HAD THE ACT. FITHER, OR ARISING FROM ANY INJURY OR DAMAGE, WHETHER REAL OR ALLEGED

- 34, ALL CUTTING AND PATCHING FOR ALL TRADES TO BE PERFORMED BY THE
- 35. ALL WORK PERFORMED BY CONTRACTOR AND SUBCONTRACTORS SHALL COMPLY WITH BUILDING RULES REGARDING SUCH WORK, AS PROVIDED BY THE BUILDING MANAGEMENT

CEILINGS

1. BEFORE WORK BEGINS THE CONTRACTOR SHALL INSPECT SPACE AND ASSURE THAT SPACE IS DRY, AND THAT ALL WORK THAT MIGHT CAUSE DAMPNESS HAS BEEN COMPLETED AREA TO RECEIVE CEILING TO BE THOROUGHLY CLEAN.

2. REGINNING WORK SHALL CONSTITUTE ACCEPTANCE OF SPACE AS FOUND. CEILING THAT DEVELOPS DEFECTS AND THAT FAILS TO MEET SPECIFIED PARDS REGARDLESS OF CAUSE SHALL BE CORRECT AT NO ADDITIONAL COST

3. MECHANICAL AND ELECTRICAL WORK ABOVE CEILING SHALL BE INSTALLED AND TESTED BEFORE CEILING WORK IS STARTED. LIGHTING FIXTURES ABOVE CEILING SHALL BE SUSPENDED AT REQUIRED LEVELS AND LOCATIONS.

4. CEILING TO BE 5/8" FIREPROOF SHEETROCK, PERFECTLY LEVELED, SMOOTH TAPED AND SPACKLED CEILING HEIGHT "AS SHOWN

5. PROVIDE ACCESS DOORS IN HUNG CEILING AS REQUIRED. ACCESS DOORS TO BE FLUSH WITH CEILING, AND THE LOCATIONS TO BE DETERMINED IN CONJUNCTION WITH, AND SUBJECT TO THE APPROVAL OF JOSEPH PELL LOMBARDI AND ASSOCIATES, ARCHITECTS, ACCESS DOORS TO BE FRAMES FOR SUPPORT. VENTILATING DEVICES IN CEILING TO BE FRAMED.

6. AT FULL-HEIGHT DOORS, HARDWARE TO BE RECESSED FLUSH TO CEILING AND IDE WOOD GROUND ABOVE SHEETROCK.

7. ALL LIGHT FIXTURES (FLORESCENT, INCANDESCENT, AND TRACKS FOR FIXTURES) RECESSED IN CEILINGS UNLESS OTHERWISE INDICATED, CONTRACTOR TO PR ALL CUTOUTS AND GROUND REQUIRED.

8. ALL DUCT GRILLS AND DIFFUSERS TO BE PAINTED TO MATCH CEILING, UNLESS

9. CEILING BREAKS AND LEVELS TO BE LIMITED TO THOSE ON PLANS

10. CONTRACTOR SHALL EXAMINE CLOSELY AND COORDINATE HIS WORK WITH THE HVAC, PLUMBING, CABINET WORK, ELECTRICAL AND SPECIAL EFFECTS. PRIOR TO CLOSING OF CEILING, ALL SYSTEMS TO BE CHECKED AND TESTED BY CONTRACTORS AND BY AUTHORITIES HAVING JURISDICTION TO INSURE THEIR PROPER INSTALLATION AND FUNCTION.

11, EXISTING WOOD-BOARD CEILING WHERE EXPOSED, TO BE CLEANED AND SEAL IN A MANNER ACCEPTABLE TO THE DEPARTMENT OF HEALTH AND SHALL MEET THE REQUIREMENTS OF ALL OTHER ADMINISTRATIVE CODES HAVING JURISDICTION. A FINISHED SAMPLE ON SITE SHALL BE PREPARED FOR APPROVAL OF JOSEPH PELL LOMBARDI AND ASSOCIATES, ARCHITECTS AS WELL, SUGGESTED TREATMENT ACCEPTABLE TO JOSEPH PELL LOMBARDL& ASSOCIATES, ARCHITECTS SHALL BE 1 COAT CLEAR SHELLAC MIXED 1:1 WITH ALCOHOL, FOLLOWED BY 1 COAT SATIN

ELECTRICAL, TELEPHONE, AND LIGHTING SPECIFICATIONS

1 THE GENERAL CONTRACTOR SHALL COORDINATE ALL WORK AND OBTAIN 1. THE GENERAL CURT MALTOR SHALL COORDINATE ALL WORK AND OBTAIN FORDINGERING DRAWINGS FOR ELECTRICAL INSTALLATIONS IF REQUIRED, MODIFY AND REUSE EXISTING ELECTRICAL RUNS, CONDUITS, AND EQUIPMENT ONLY WHERE NECESSARY, ENGINEERING DRAWINGS TO BE DONE ON TRANSPARENCIES OF JOSEPH PELL LOMBARDI AND ASSOCIATES, ARCHITECTS PLANS.

2. ELECTRICAL/ENGINEERING DRAWINGS SHALL BE USED FOR CIRCUITING AND PANEL INFORMATION AND LOCATION OF OUTLETS, FIXTURES, ETC.

A TEMPORARY LIGHT AND POWER FOR ALL TRADES.

B. CONCEALED WIRING THROUGHOUT, INCLUDING TELEPHONE, CASHIERS, AND ENTIRE WORK UNLESS OTHERWISE INSTRUCTED.

PRESENTED FOR ZONING EGRESS AND FIRE WORK UNLESS OTHERWISE INSTRUCTED.

D. FINAL CONNECTION OA ANY EQUIPMENT, FIXTURES, AND REQUIRING ELECTRICAL CONNECTION.

3. VERIFY TELEPHONE CABLE SIZES. CONDUIT OR SAME ONLY WHERE REQUIRED BY THE FLADEN, RA

S WELL AS COORDINATING ALL DRAWINGS WITH TELEPHONE COMPANY, AUDIO QUIPMENT, HVAC, ETC.

5. ELECTRICAL CONTRACTOR TO SUPPLY AND INSTALL ALL LAMPS AND FIXTURES CALLED FOR. FLORESCENT FIXTURES TO BE PROVIDED WITH WARM, COLOR T 8 TUBES. SEE REFLECTED CEILING PLAN AND LIGHTING FIXTURES FOR ALL FIXTURE

6. ALL SPECIAL SECURITY AND ALARM REQUIREMENTS TO BE SPECIFIED BY OWNER

CABINET AND WOODWORKING

- ALL DIMENSIONS AND CONDITIONS ON CABINETWORK DRAWINGS TO BE VERIFIED IN RELATION TO FINISHED CONSTRUCTION CONDITIONS BEFORE ANY
- 2 SHOP DRAWINGS TO BE PREPARED PER ITEM AND APPROVED BY ARCHITECT

3. CABINETMAKER TO REVIEW ARCHITECTURAL DRAWINGS AND BECOME AWARE DE ALL ITEMS TO BE INSTALLED BY HIM, I.E., MIRRORED SURFACES, WOOD TRIM AT CEILING SECURITY LOCKING-SYSTEMS, ETC.

4. CABINETMAKER TO COORDINATE HIS WORK IN ACCORDANCE WITH RELATED

5. SUBMIT TO ARCHITECT FOR APPROVAL 6" X 12" SAMPLES FOR ALL MATERIALS SPECIFIED, SHOWING WOOD GRAIN AND FINISHES.

6. ALL MATERIALS SHALL BE FREE OF CHIPPING, BRASURES, DISTRESS, WARPING, CRACKING, FLAKING, SPLITTING, OR ANY MARRING THAT WOULD RESULT IN AN UNEVEN OR DAMAGED SURFACE.

7. ASSEMBLE CABINETWORK FINISHED IN AS LARGE UNITS AS POSSIBLE AT MILL. READY FOR ERECTION, INSURE AMPLE ALLOWANCE FOR CUTTING AND BACKING

8. AFTER COMPLETION OF ERECTION, ALL NAIL HOLES, SCRATCHES, AND OPEN JOINTS SHALL BE FILLED AND TOUCHED UP SO AS TO BE INVISIBLE.

10. CABINETMAKER TO COORDINATE LOCKING DEVICES, SECURITY, OR SPECIAL

PAINTING

1. BEFORE PAINTING BEGINS, AREA MUST BE FREE OF DEBRIS AND AIRBORNE

2. CONTRACTOR SHALL PREPARE AND SUBMIT TO JOSEPH PELL LOMBARDI AND ASSOCIATES, ARCHITECTS AN 8 1/2" SAMPLE FOR APPROVAL BEFORE BEGINNING

3. ONLY MATERIALS APPROVED OR SPECIFIED MAY BE DELIVERED TO, OR ACCEPTED AT THE PROJECT SITE.

A REFORE REGINNING WORK THE PAINTING SURCONTRACTOR SHALL INSPECT ALL 4. BEFORE BEDINNING WIND AND THE PRINCE OF THIS HELD AND THE CONTRACTOR IN WRITING OF ANY UNSUITABLE CONDITIONS.

5. THE PRIME COAT ON ALL SURFACES MUST APPROXIMATE THE COLOR OF THE

6. ALL PAINTED SURFACES TO RECEIVE 2 COATS OF FINISH PAINT

7. FINISHED SURFACE TO BE PERFECTLY SMOOTH AND TO THE PATCHED WHERE

8. AT COMPLETION OF WORK, ANY DAMAGED SURFACES TO BE PATCHED WHERE

TILE & FLOORING

EXAMINED FOR ZONING EGRESS AND FIRE

TILE AND GROUT SHALL BE AS SPECIFIED, ANY CHANGES IN TILE TO BE SUBMITTED TO JOSEPH PELL LOMBARDI & ASSOCIATES, ARCHITECTS FOI

2. ALL TILE SURFACES TO BE SET FLUSH UNLESS NOTED OTHERWISE

3. SURFACE TO RECEIVE TILE SHALL BE DRY, CLEAN, FIRM, LEVEL, AND PLUM

4. DO NOT START WORK UNTIL ALL ELECTRICAL AND/OR MECHANICAL WORK IN OR BEHIND TILES HAS BEEN INSTALLED.

5. USE FULL TILES THROUGHOUT, CUTTING ONLY WHERE NECESSARY, ANY CUTTING OR DRILLING TO BE DONE WITHOUT MARRING FACE OF TILE

6. AT COMPLETION OF WORK, ALL TILE SHALL BE THOROUGHLY CLEANED, JOINTS REGROUTED WHERE REQUIRED, AND ANY DEFECTIVE WORK REPLACED IN A MANNER SUITABLE TO JOSEPH PELL LOMBARDI AND ASSOCIATES, ARCHITECTS AT

7. FINISHED WOOD FLOOR TO BE LEVEL, AND FLUSH WITH ANY ADJOINING AREAS UNLESS NOTED OTHERWISE.

1 FOR PRE-BID 03.30.2017 No: Description: Date: Versatile Engineering P.C

240-02 66TH AVE. DOUGLASTON, NY 11362-1925 Tel.(917) 873-0662 Fax.(718) 247-5943

PROJECT

51-53 WHITE STREET NEW YORK, N.Y. 10013

MULTIPLE DWELLING, **GENERAL & CONSTRUCTION** NOTES

SEAL & SIGNATURE

DATE: 05 09 2017 PROJECT No: 05-2012 DRAWING BY: L.N. CHK BY: R.S.

A-001.00

SEC. 28. TWO OR MORE BUILDINGS ON SAME LOT.

- 1. IF ANY SEPARATE MULTIPLE DWELLING IS ERECTED AFTER APRIL EIGHTEENTH, NINETEEN HUNDRED TWENTY-NINE, UPON THE REAR OF A LOT WHICH HAS ANOTHER MULTIPLE DWELLING ON THE FRONT OR UPON THE FRONT OF A LOT WHICH HAS ANOTHER MULTIPLE DWELLING ON THE REAR, ACCESS SHALL BE PROVIDED TO THE REAR DWELLING FROM A STREET BY MEANS OF AN UNOBSTRUCTED COURT AT LEAST TWENTY FEET
- 2. EXCEPT AS OTHERWISE PROVIDED FOR MOTOR VEHICLE STORAGE SPACE IN SECTION SIXTY AND FOR DWELLINGS ERECTED, ENLARGED, CONVERTED OR ALTERED PURSUANT TO PLANS FILED PRIOR TO DECEMBER FIFTEENTH NINETEEN HUNDRED SIXTY-ONE IN ACCORDANCE WITH THE PROVISIONS OF SUBDIVISION ONE OF SECTION TWENTY- SIX, IF ANY BUILDING OR DWELLING IS PLACED ON THE REAR OF THE SAME LOT WITH A MULTIPLE DWELLING OR A MULTIPLE DWELLING IS PLACED ANYWHERE ON THE SAME LOT WITH ANOTHER BUILDING, THERE SHALL BE LEFT BETWEEN THE TWO BUILDINGS AN OPEN SPACE UNOCCUPIED FROM THE GROUND UP AND AT LEAST FORTY FEET IN DEPTH, MEASURED IN THE DIRECTION FROM ONE BUILDING TO THE OTHER FOR THE FIRST ONE HUNDRED TWENTY-FIVE FEET ABOVE THE CURB LEVEL. AND EIGHTY FEET ABOVE THAT POINT. THE PROVISIONS OF THIS SUBDIVISION REQUIRING AN OPEN SPACE EIGHTY FEET IN DEPTH BETWEEN PORTIONS OF BUILDINGS IN EXCESS OF ONE HUNDRED TWENTY-FIVE FEET ABOVE THE CURB LEVEL SHALL NOT BE APPLIED WHEN BOTH SUCH PORTIONS ARE TOWERS
- 3. IF ON THE REAR OF A LOT ANY SUCH BUILDING OR ANY PORTION THEREOF IS LISED FOR BUSINESS PURPOSES. A SEPARATE PASSAGEWAY AT LEAST THREE FEET SIX INCHES WIDE AND SEVEN FEET HIGH SHALL BE PROVIDED LEADING FROM EVERY SUCH OPEN SPACE ADJACENT TO SUCH BUILDING TO A STREET. NO SUCH PASSAGEWAY SHALL CONNECT WITH, GO THROUGH OR FORM A PART OF ANY ENTRANCE HALL OR OTHER PUBLIC HALL OF A MULTIPLE DWELLING UPON THE FRONT OF THE LOT.

SEC. 29. PAINTING OF COURTS AND SHAFTS.

THE EXTERIOR SURFACE OF ALL WALLS OF ALL COURTS AND SHAFTS OF MULTIPLE DWELLINGS, EXCEPT OF OUTER COURTS OPENING ON A STREET OF THE MINIMUM SET FORTH IN SECTION TWENTY-SIX. SHALL BE OF A LIGHT-COLORED BRICK OR STONE. OR BE THOROUGHLY WHITEWASHED OR PAINTED A LIGHT COLOR BY THE OWNER AND BE SO MAINTAINED. SUCH WHITEWASH OR PAINT SHALL BE RENEWED WHENEVER NECESSARY, AS MAY BE DETERMINED AND REQUIRED BY THE DEPARTMENT

SEC. 30. LIGHTING AND VENTILATION OF ROOMS.

- 1. THE PROVISIONS OF THIS SECTION SHALL APPLY ONLY TO MULTIPLE DWELLINGS ERECTED AFTER APRIL EIGHTEENTH, NINETEEN HUNDRED TWENTY-NINE, AND SHALL APPLY TO ALL SUCH DWELLINGS UNLESS OTHERWISE EXPRESSLY LIMITED.
- 2. EXCEPT AS IN THIS SECTION AND IN SECTIONS THIRTY-THREE SEVENTY-SIX, ONE HUNDRED FIFTEEN, ONE HUNDRED SIXTY, ONE HUNDRED SEVENTY-SIX, TWO HUNDRED, TWO HUNDRED THIRTEEN, TWO HUNDRED FIFTY AND TWO HUNDRED FIFTY-ONE OTHERWISE EXPRESSLY PROVIDED, EVERY ROOM, INCLUDING KITCHENS, WATER-CLOSET COMPARTMENTS AND BATHROOMS, SHALL HAVE AT LEAST ONE WINDOW OPENING DIRECTLY UPON A STREET OR UPON A LAWFUL YARD, COURT OR SPACE ABOVE A SETBACK UPON THE SAME LOT AS THAT OCCUPIED BY THE MULTIPLE DWELLING IN WHICH SUCH ROOM IS SITUATED. EVERY SUCH WINDOW SHALL BE SO LOCATED AS TO LIGHT PROPERLY ALL PORTIONS OF THE ROOM.
- 3. NO ROOM IN ANY APARTMENT OF THREE ROOMS OR LESS, AND NO ROOM IN ANY NON-FIREPROOF APARTMENT, SHALL EXTEND IN DEPTH, FROM A STREET OR YARD ON WHICH IT FACES, MORE THAN THIRTY FEET WITHOUT A WINDOW OPENING ON A LAWFUL COURT
- 4.A. NOTHING IN THIS SECTION OR SECTION TWENTY-SIX SHALL BE CONSTRUED AS PROHIBITING THE WINDOWS OR DOORS OF ANY ROOM FROM OPENING ON A PARTIALLY-ENCLOSED BALCONY OR SPACE ABOVE A SETBACK, PROVIDED SUCH BALCONY OR SPACE OPENS DIRECTLY TO A STREET OR TO A LAWFUL YARD. OR COURT AND THE AREA OF THE FRONT OF THE BALCONY OR SPACE WHICH IS OPEN TO THE OUTER AIR IS AT LEAST EOUAL TO SEVENTY-FIVE PER CENTUM OF THE FLOOR SURFACE AREA OF SUCH BALCONY OR SPACE. ANY LIVING ROOM THUS LIGHTED AND VENTILATED BY WINDOWS OR DOORS OPENING ON SUCH BALCONY OR SPACE SHALL BE AT MOST THIRTY FEET IN DEPTH MEASURED FROM THE EXTREME OUTER FACE OF THE WALL FORMING THE PARTIAL ENCLOSURE OF THE BALCONY OR SPACE THE WINDOWS OR DOORS PROVIDING LIGHT AND VENTILATION FOR A ROOM OR ROOMS OPENING EXCLUSIVELY ON SUCH A BALCONY OR SPACE SHALL HAVE ALTOGETHER AT LEAST THE AREA OF ONE-TENTH OF THE COMBINED FLOOR SURFACE OF SUCH ROOM OR ROOMS AND THE PORTION OF THE BALCONY OR SPACE DIRECTLY ADJOINING AND IN FRONT OF SUCH ROOM OR ROOMS.
- B. ON A FIREPROOF DWELLING A BALCONY OR SPACE ABOVE A SETBACK PERMITTED UNDER PARAGRAPH A OF THIS SUBDIVISION MAY BE COMPLETELY ENCLOSED, PROVIDED THE OUTER ENCLOSING WALL OR WALLS AND ROOF ARE CONSTRUCTED OF INCOMBUSTIBLE MATERIALS AND THE WALLS ARE GLAZED WITH CLEAR PLATE GLASS OR PLASTIC FOLIVALENT AND SUCH GLAZED WALL AREA IS EQUAL TO AT LEAST FIFTY PER CENTUM OF THE AREA OF THE INTERIOR WALLS ENCLOSING SUCH BALCONY OR SPACE. AT LEAST FIFTY PER CENTUM OF THE GLAZED AREA SHALL BE OPENABLE DIRECTLY UPON A STREET OR UPON A LAWFUL YARD OR COURT, NO WINDOW SHALL OPEN FROM ANY BATHROOM, WATER-CLOSET COMPARTMENT OR COOKING SPACE UPON SUCH ENCLOSED BALCONY.
- C. THE ENCLOSURE ON ANY BALCONY OR A SPACE ABOVE A SETBACK SHALL NOT (1) BE MORE THAN ONE STORY IN HEIGHT OR (2) BE ERECTED IN VIOLATION OF THE PROVISIONS OF PARAGRAPH A OF SUBDIVISION SIX OF SECTION ONE HUNDRED TWO OF THIS
- 5. NO MULTIPLE DWELLING SHALL BE SO ALTERED AS TO DIMINISH THE LIGHT OR VENTILATION OF ANY ROOM OR PUBLIC HALL OR STAIRS IN

- 6. NO WINDOW SHALL BE REQUIRED IN ANY PUBLIC ROOM OF A FIREPROOF MULTIPLE DWELLING IF SUCH ROOM IS USED SOLELY FOR STORAGE PURPOSES OR HAS ADEQUATE MECHANICAL VENTILATION MAINTAINED TO PROVIDE AT LEAST THE NUMBER OF CHANGES OF THE AIR VOLUME OF SUCH ROOM APPROVED BY THE DEPARTMENT AS NECESSARY FOR THE HEALTH AND SAFETY OF THE OCCUPANTS OF SUCH DWELLING, ANY FRESH AIR SUPPLY SYSTEM REQUIRED BY THE DEPARTMENT FOR SUCH PURPOSES SHALL BE PROVIDED WITH ADEQUATE MEANS FOR REMOVING DUST FROM THE INCOMING AIR AND WITH ADEQUATE MEANS TO HEAT SUCH AIR AT LEAST TO SIXTY DEGREES
- 7. NO REQUIRED WINDOW SHALL OPEN UPON ANY OFFSET OR RECESS LESS THAN SIX FEET IN WIDTH EXCEPT A WINDOW OF A WATER-CLOSET COMPARTMENT, BATHROOM, OR STAIR OR OF A COOKING COMPARTMENT LESS THAN FIFTY-NINE SOUARE FEET IN FLOOR SURFACE AREA.

ARTICLE 4 - FIREPROOF MULTIPLE DWELLINGS

SEC.100. APPLICATION OF ARTICLE FOUR. THE PROVISIONS OF THIS ARTICLE SHALL APPLY TO FIREPROOF MULTIPLE DWELLINGS ERECTED AFTER APRIL EIGHTEENTH, NINETEEN HUNDRED TWENTY-NINE, AND TO SUCH DWELLINGS ONLY. THEY SHALL APPLY TO ALL SUCH FIREPROOF DWELLINGS UNLESS THEIR APPLICATION IS EXPRESSLY LIMITED TO AND NOT IN SUBSTITUTION FOR, THE PROVISIONS OF ARTICLE

TITLE 1 - FIRE PROTECTION

- 1. EVERY SUCH DWELLING EXCEEDING SIX STORIES OR SEVENTY-FIVE FEET IN HEIGHT SHALL BE FIREPROOF AS PER SECTION.101.1 M.D.L.
- 2 EXCEPT AS OTHERWISE SPECIFICALLY PROVIDED IN SUBDIVISIONS THREE AND FOUR AND IN PARAGRAPHS B TO J INCLUSIVE OF SUBDIVISION SIX, EVERY MULTIPLE DWELLING WHICH EXCEEDS TWO STORIES IN HEIGHT FROM THE ENTRANCE STORY TO THE ROOF AND BE EQUIPPED WITH FIREPROOF SELF-CLOSING DOORS GLAZED WITH WIRE GLASS AND WITHOUT TRANSOMS AS PER SECTION 102.1 M.D.L.
- 3. EXCEPT AS PROVIDED IN PARAGRAPH B OF THIS SUBDIVISION, THERE SHALL BE AT LEAST ONE MEANS OF EGRESS FROM EACH APARTMENT ON EACH AND EVERY STORY OF SUCH APARTMENT, AND A SECOND MEANS OF EGRESS IF THE FIRST MEANS IS NOT WITHIN FIFTY FEET OF EVERY LIVING ROOM IN SUCH APARTMENT ON SUCH STORY. WHEN TWO MEANS OF EGRESS ARE REQUIRED, THEY SHALL OPEN FROM DIFFERENT ROOMS AS PER SECTION 103.1.A. M.D.L.
- 4. EVERY STAIR, FIRE-STAIR AND FIRE-TOWER REQUIRED BY THIS CHAPTER TO EXTEND TO THE LEVEL OF THE ROOF OR TO ANY TERRACE FORMED BY A SETBACK SHALL EXTEND TO THE THROUGH A FIREPROOF BULKHEAD OR OTHER FIREPROOF ENCLOSURE IN SUCH ROOF OR TERRACE APPROVED BY
- THE DEPARTMENT AS PER SECTION 104.1 M.D.L.
 5. IN A DWELLING IN WHICH ONE OR MORE PASSENGER ELEVATORS ARE MAINTAINED AND OPERATED OPENING UPON A PUBLIC HALL AT EVERY STORY, ALL STAIRS FIRE-STAIRS AND FIRE-TOWERS SHALL BE COMPLETELY SEPARATED FROM ONE ANOTHER AND FROM EVERY ELEVATOR SHAFT BY FIREPROOF WALLS AS PER SECTION 105.1 M.D.L
- 6. A CELLAR OR BASEMENT STAIR MAY BE LOCATED INSIDE THE DWELLING, BUT SHALL NOT BE LOCATED UNDERNEATH STAIR LEADING TO THE UPPER STORIES UNLESS IT IS A BASEMENT STAIR LEADING UPWARD FROM A BASEMENT WHICH IS THE MAIN ENTRANCE STORY OF THE DWELLING, OR UNLESS IT IS A STAIR LEADING DOWNWARD FROM THE ENTRANCE STORY WHICH IS SEPARATED BY A FIREPROOF ARCH FROM THE STAIR LEADING UPWARD FROM THE ENTRANCE STORY AS PER SECTION 106 M.D.L.
- 7. EVERY PUBLIC VESTIBULE OR OTHER PUBLIC HALL SHALL COMPLY EITHER WITH THE PROVISIONS OF SECTION ONE HUNDRED FORTY-NINE FOR NON-FIREPROOF MULTIPLE DWELLINGS, SO FAR AS APPLICABLE, OR WITH THE PROVISIONS OF SUBDIVISION TWO OF THIS SECTION, EXCEPT THAT THE PROVISIONS AS TO VENTILATION SHALL NOT APPLY TO ANY PART OF AN ENTRANCE HALL WITHIN SIXTY FEET IN A STRAIGHT LINE FROM AN ENTRANCE DOOR AS PER SECTION 107.1 M.D.L
- 8. ALL PARTITIONS SHALL REST DIRECTLY UPON THE FIREPROOF FLOOR CONSTRUCTION AND NEVER UPON ANY WOOD FLOORING, AND SHALL EXTEND TO THE FIREPROOF CONSTRUCTION OF THE FLOOR OR ROOF ABOVE AS PER SECTION 108 M.D.L

- FLOOR PLAN NOTES

 1. ALWAYS USE DIMENSIONS AS SHOWN. DRAWINGS NOT TO BE SCALED.
- 2. REFER TO GENERAL NOTES SHEET DRAWING NUMBER N-1 FOR U.L. LISTED, HARD-WIRED SMOKE DETECTORS
- 3. F.D. DENOTES FLOOR DRAIN. 4. H.R. DENOTES HANDRAIL (SHALL COMPLY WITH SECTION 28.2-1009.11).
- M.S. DENOTES MARBLE SADDLE.
- 6. M.V. DENOTES MECHANICAL VENTILATION. PROVIDE MECHANICAL
- VENTILATION FOR INTERIOR BATHS/ KITCHENETTES. 7. AREA OF DUCT SPACE NOT TO EXCEED TWO (2) SQUARE FEET, UNLESS
- OTHERWISE NOTED. 8 FLOOR JOIST UNDER BATHROOM/LAVATORY AREAS AND
- KITCHEN/KITCHENETTE TO BE SPACED MAXIMUM 12" O.C 9. ALL WINDOW OPENINGS EXCEEDING 4'-0" (EXCEPT WHERE INDICATED ON
- (EXCEPT WHERE NOTED ON PLANS) TO HAVE 4" BRICK RETURNS.
- PLANS) TO HAVE 12" BRICK RETURNS. ALL OTHER WINDOW OPENINGS 10. ALL EXTERIOR SURFACES TO BE BRICK, UNLESS OTHERWISE NOTED.
 11. FOR CONSTRUCTION OF BEARING PARTITIONS, WHERE APPLICABLE, SEE WALL
- 12. FIREPROOF ALL INTERIOR COLUMNS WHERE APPLICABLE.
- 13. SPRINKLER NOTE; IN ALL PUBLIC HALLWAYS OR STAIRWELLS NO TWO SPRINKLER HEADS SHALL BE MORE THAT 15'-0" APART AND NO ONE SPRINKLER HEAD SHALL BE MORE THAN 7'-6" AWAY FROM ANY WALL LOT LINE WINDOW NOTES
 OPENINGS ON LOT LINE SHALL COMPLY WITH SECTION 28.2-704.8, TABLE 704.8.
- EVERY WINDOW AND ITS ASSEMBLY IN A WALL SITUATED ON A LOT LINE, EXCEPT ON A STREET LINE OR OTHERWISE NOTED ON THE CONSTRUCTION DRAWINGS, SHALL BE OF AN APPROVED FIREPROOF CONSTRUCTION. THE ASSEMBLY SHALL HAVE A FIRE RESISTIVE RATING OF AT LEAST THREE-QUARTERS OF AN HOUR AND THE WINDOW SHALL BE GLAZED WITH WIRE GLASS AT LEAST ONE QUARTER OF AN INCH THICK. EVERY SUCH WINDOW SHALL BE OF AUTOMATIC SELF CLOSING CONSTRUCTION WHENEVER IT IS LESS THAN FIFTY FEET ABOVE THE NON-FIREPROOF ROOF OF ANOTHER STRUCTURE LOCATED THIRTY FEET OR LESS FROM THE LOT LINE

MAIL BOX GENERAL NOTES
. POSTAL SERVICE APPROVED MAIL RECEPTACLES ARE REQUIRED FOR APARTMENT HOUSES CONTAINING THREE OR MORE APARTMENTS WITH A COMMON BUILDING ENTRANCE AND STREET NUMBER

- 2. INDIVIDUAL COMPARTMENTS SHOULD BE LARGE ENOUGH TO RECEIVE LONG LETTER MAIL 4 1/2" WIDE AND BULKY MAGAZINES 14 1/2" LONG AND 3 1/2" IN DIAMETER.
- 3. AN OUTDOOR INSTALLATION SHOULD PREFERABLY BE AT LEAST 15 FEET FROM A STREET OR PUBLIC SIDEWALK, PROTECTED FROM DRIVING RAIN, AND VISIBLE FROM AT LEAST ONE APARTMENT WINDOW.
- 4. ALL INSTALLATIONS MUST BE ADEQUATELY LIGHTED TO AFFORD BETTER PROTECTION TO THE MAIL AND ENABLE CARRIERS TO READ ADDRESSES ON MAIL AND NAMES ON BOXES.
- 5. A DIRECTORY, IN ALPHABETICAL ORDER, IS REQUIRED FOR INSTALLATIONS WITH MORE THAN 15 COMPARTMENTS.
- 6. EAST COMPARTMENT GROUP IS SUPPLIED WITH MOUNTING HARDWARE FOR MASTER LOCK.
- 7. ONE MAILBOX DOOR IS REQUIRED FOR THE POSTAL SERVICE MASTER LOCK AND CANNOT BE USED FOR MAIL DISTRIBUTION.
- 8. CALL BUTTONS WITH TELEPHONE CAN BE INTEGRATED INTO FRAME WITH MAILBOXES.
- DEPENDING ON OCCUPANCY, A CERTAIN NUMBER OF COMPARTMENTS SHALL BE ASSIGNED TO PERSONS USING WHEELCHAIRS. KEY SLOTS SHALL BE NO MORE THAN 48" FROM FLOOR. CONSULT LOCAL CODES FOR OTHER REQUIREMENTS.
- 10. USE OF COLLECTION BOXES IS SUBJECT TO APPROVAL BY LOCAL OFFICES OF THE UNITED STATES POSTAL SERVICE.

- SECTION NOTES

 I. FIRE RETARD ALL CEILINGS WITH 5/8" SHEETROCK FIRE-CODE "X" ONE HOUR RATED, UNLESS OTHERWISE NOTED.
- 2 ALL FOOTINGS TO BE CARRIED DOWN A MINIMUM OF 4'-0" BELOW ADJACENT GRADE AND BEAR ON UNDISTURBED SOIL HAVING A MINIMUM BEARING CAPACITY OF TWO (2) TONS PER SOLIARE FOOT.
- 3. PROVIDE DOUBLE JOISTS UNDER PARTITIONS RUNNING PARALLEL TO FLOOR
- 4. PROVIDE TRIPLE-HEADERS AND TRIMMERS AROUND STAIRWELL OPENING, UNLESS OTHERWISE NOTED ON PLAN.
- 5. INSTALLATION OF INSULATION AND CONSTRUCTION OF WINDOWS AND EXTERIOR DOORS TO COMPLY WITH NEW YORK STATE ENERGY CODE. ROOF INSULATION: MINIMUM R21 RATED KRAFT FACED FIBERGLASS BATTS EXTERIOR WALLS: MINIMUM R13 RATED KRAFT FACED FIBERGLASS BATTS.
- CHIMNEY TO BE ENCLOSED IN A MIN. ONE (I) HOUR RATED ENCLOSURE OR AS NOTES ON CONSTRUCTION DRAWINGS.
- 7. WATERPROOF NEW FOUNDATION AND FOOTINGS WITH 1/4" THICK TROWELLED ON MASTIC WATERPROOFING.
- 8. NEW STAIRS SHALL COMPLY WITH SECTION 28.2-1009.3:
- CONTRACTORS SHALL CHECK AND VERIFY STORY HEIGHTS PRIOR TO ABRICATION AND INSTALLATION OF STAIRS.
- b. MAXIMUM RISER 7" AND MINIMUM TREAD 11": IN GROUP R-2 OCCUPANCIES THE MAXIMUM RISER SHALL BE 7 3/4" AND MINIMUM TREAD DEPTH SHALL SHALL BE 9 \mbox{M}° . SUM OF TWO RISERS PLUS ONE TREAD SHALL NOT BE LESS THAT 24" NOR MORE THAN 25 \mbox{M}° .
- UPPER SURFACE OF EVERY BALUSTRADE OR RAILING SHALL BE AT LEAST 2'-6" AND MAXIMUM OF 2'-8" ABOVE THE FRONT EDGE OF THE STAIR TREADS AND 2'-8" MINIMUM, 3'-0" MAXIMUM ABOVE LEVEL OF LANDING d. SOFFIT OF STAIR TO BE COVERED WITH 5/8" SHEETROCK TYPE "X".
- EXTERIOR METAL RAILINGS:
- EXTERIOR METAL RAILINGS SHALL BE SPACED STRUCTURAL DESIGN OF RAILING TO COMPLY WITH SECTION 28.2-1012.1.
- 10. ALL CONCRETE FOOTING TO BE CARRIED DOWN BELOW THE LEVEL OF THE HOUSE SEWER WHERE HOUSE SEWER PASSES THROUGH FOUNDATION WALL.
- 11. ALL CONCRETE TO BE REINFORCED UNLESS OTHERWISE NOTED.
- 12. ALL EXTERIOR PROPERTY LINE WALLS TO BE HAVE 3HOUR FIRE RESISTIVE RATING CONSTRUCTION AS PER TABLE 28-2-705.2.
- 13. ALL INTERIOR WALLS FOR EGRESS STAIR CONSTRUCTION AND HALLWAYS ARE TO BE OF 2HOUR RATED CONSTRUCTION AS PER TABLE 28.2-706.3.7

- SKYLIGHT/ SMOKE VENT NOTES

 1. SKYLIGHT/ SMOKE VENT TO COMPLY WITH SECT. 28.2-2610.2
- 2. SKYLIGHT/SMOKE VENT TO BE DESIGNED AND CONSTRUCTED TO WITHSTAND A LIVE LOAD OF 30LBS. /SQ.FT
- 3. SKYLIGHT/ SMOKE VENT TO BE 3 ½ % OF THE MAXIMUM SHAFT AREA AT ANY FLOOR BUT NO LESS THAN 72 SQ.IN. AT LEAST 1/3 SHALL BE A CLEAR OPENING TO THE EXTERIOR IN THE FORM OF A FIXED LOUVER, THE REMAINING PORTION OF THE REQUIRED VENT AREA MAYBE A WINDOW OR SKYLIGHT GLAZED WITH PLAIN GLASS (1/8") AS PER SECT. 28.2-910.5.1 AND 28.2-910.5.2 LINI ESS OTHERWISE NOTED ON PLAN

GENERAL NOTES FOR INSTALLATION OF SMOKE/ CARBON MONOXIDE

A MINIMUM OF ONE SMOKE DETECTOR LISTED FOR THE INTENDED PURPOSE SHALL BE INSTALLED IN THE FOLLOWING AREAS: I. MECHANICAL EQUIPMENT, ELECTRICAL, TRANSFORMER, TELEPHONE

- EQUIPMENT, ELEVATOR MACHINE OR SIMILAR ROOMS
- 2. ELEVATOR LOBBIES.
- THE MAIN SUPPLY AND RETURN AND EXHAUST AIR PLENUM OF EACH AIR-CONDITIONING SYSTEM SERVING MORE THAN ONE STORY AND LOCATED IN A SERVICEABLE AREA DOWNSTREAM FROM FILTERS ON SUPPLY DUCTS AND IN RETURN/EXHAUST DUCTS DOWNSTREAM OF THE LAST DUCT INLET
- EACH CONNECTION TO A VERTICAL DUCT OR RISER SERVING TWO OR MORE FLOORS FROM RETURN AIR DUCTS OR PLENUMS OF HEATING, VENTILATING AND AIR-CONDITIONING SYSTEMS, EXCEPT THAT IN GROUP R OCCUPANCIES, A LISTED SMOKE DETECTOR IS ALLOWED TO BE USED IN EACH RETURN AIR RISER CARRYING NOT MORE THAN 5,000 CFM (2.4 M3/S) AND SERVING NOT MORE THAN 10 AIR INLET OPENINGS.
- EACH DWELLING UNIT SHALL BE EQUIPPED WITH AN APPROVED TYPE ALARM OR DETECTOR DEVISE RECEIVING PRIMARY POWER FROM THE BUILDING WIRING WITH NO SWITCHES IN THE CIRCUIT OTHER THAN CURRENT DEVISE PROTECTING THE BRANCH CIRCUIT, AS PER SECTION 28.2-907.2.10 AND MUST ALL BE INTERCONNECTED, ONE WITH THE OTHER

CARBON MONOXIDE ALARMS OR DETECTORS SHALL BE REQUIRED WITHIN THE FOLLOWING DWELLING UNITS:

6. UNITS ON THE SAME STORY WHERE CARBON MONOXIDE PRODUCING

- FOUIPMENT OR ENCLOSED PARKING IS LOCATED.
- UNITS ON THE STORIES ABOVE AND BELOW THE FLOOR WHERE CARBON MONOXIDE PRODUCING EQUIPMENT OR ENCLOSED PARKING IS LOCATED.
- UNITS IN A BUILDING CONTAINING A CARBON MONOXIDE PRODUCING FURNACE, BOILER, OR WATER HEATER AS PART OF A CENTRAL SYSTEM.
- UNITS IN A BUILDING SERVED BY A CARBON MONOXIDE PRODUCING FURNACE, BOILER, OR WATER HEATER AS PART OF A CENTRAL SYSTEM THAT
- IS LOCATED IN AN ADJOINING OR ATTACHED BUILDING.

ARMS OR DETECTORS SHALL BE LOCATED WITHIN DWELLING UNITS AS

- FOLLOWS: 10. ALL ALARMS OR DETECTORS MUST BE INSTALLED ON THE CEILING OR WALL OUTSIDE OF EACH ROOM USED FOR SLEEPING PURPOSES WITHIN 15 FEET
- FROM DOOR TO SUCH ROOM OR AS INDICATED ON PLAN.
- 11. IN ANY ROOM USED FOR SLEEPING PURPOSES.
- 12. ON ANY STORY WITHIN A DWELLING UNIT, INCLUDING BELOW-GRADE STORIES AND PENTHOUSES OF ANY AREA, BUT NOT INCLUDING CRAWL SPACES AND UNINHABITABLE ATTICS.

- ADDITIONAL NOTES:

 13. A CERTIFICATE OF SATISFACTORY INSTALLATION FOR ALARMS OR

 13. A CERTIFICATE OF SATISFACTORY INSTALLATION FOR ALARMS OR

 14. A CERTIFICATE OF SATISFACTORY INSTALLATION FOR ALARMS OR

 15. A CERTIFICATE OF SATISFACTORY INSTALLATION FOR ALARMS OR

 16. A CERTIFICATE OF SATISFACTORY INSTALLATION FOR ALARMS OR

 17. A CERTIFICATE OF SATISFACTORY INSTALLATION FOR ALARMS OR

 18. A CERTIFICATE OF SATISFACTORY INSTALLATION FOR ALARMS OR

 18. A CERTIFICATE OF SATISFACTORY INSTALLATION FOR ALARMS OR

 18. A CERTIFICATE OF SATISFACTORY INSTALLATION FOR ALARMS OR

 18. A CERTIFICATE OF SATISFACTORY INSTALLATION FOR ALARMS OR

 18. A CERTIFICATE OF SATISFACTORY INSTALLATION FOR ALARMS OR

 18. A CERTIFICATE OF SATISFACTORY INSTALLATION FOR ALARMS OR

 18. A CERTIFICATE OF SATISFACTORY INSTALLATION FOR ALARMS OR

 18. A CERTIFICATE OF SATISFACTORY INSTALLATION FOR ALARMS OR

 18. A CERTIFICATE OF SATISFACTORY INSTALLATION FOR ALARMS OR

 18. A CERTIFICATE OF SATISFACTORY INSTALLATION FOR ALARMS OR

 18. A CERTIFICATE OF SATISFACTORY INSTALLATION FOR ALARMS OR

 18. A CERTIFICATE OF SATISFACTORY INSTALLATION FOR ALARMS OR

 18. A CERTIFICATE OF SATISFACTORY INSTALLATION FOR ALARMS OR

 18. A CERTIFICATE OF SATISFACTORY INSTALLATION FOR ALARMS OR ALARMS O DETECTORS MUST BE FILED WITH THE DIVISION OF CODE ENFORCEMENT, H.P.D., (TEN (10) DAYS AFTER INSTALLATION).
- 14. ALL DEVICES SHALL BE ACCEPTED BY THE DEPARTMENT OF BUILDINGS OR BE LISTED BY NATIONALLY ACCEPTED INDEPENDENT LABORATORY AS MEETING NATIONALLY RECOGNIZED STANDARDS AND AS MAINTAINED BY PERIODIC FOLLOW UP SERVICE TO ENSURE CONTINUED COMPLIANCE.
- REQUIRED ALARMS OR DETECTORS SHALL RECEIVE THEIR PRIMARY POWER FROM A DEDICATED BRANCH CIRCUIT OR THE UNSWITCHED PORTION OF A BRANCH CIRCUIT ALSO USED FOR POWER AND LIGHTING, AND SHALL BE EOUIPPED WITH A BATTERY BACKUP. SMOKE ALARMS SHALL EMIT A SIGNAL



FOR DOB APPROVAL 03.30.2017 Date: No: Description:

Versatile Engineering P.C 240-02 66TH AVE. DOUGLASTON, NY 11362-192 Tel.(917) 873-0662 Fax.(718) 247-5943 E mail. versatile.pc@gmail.com

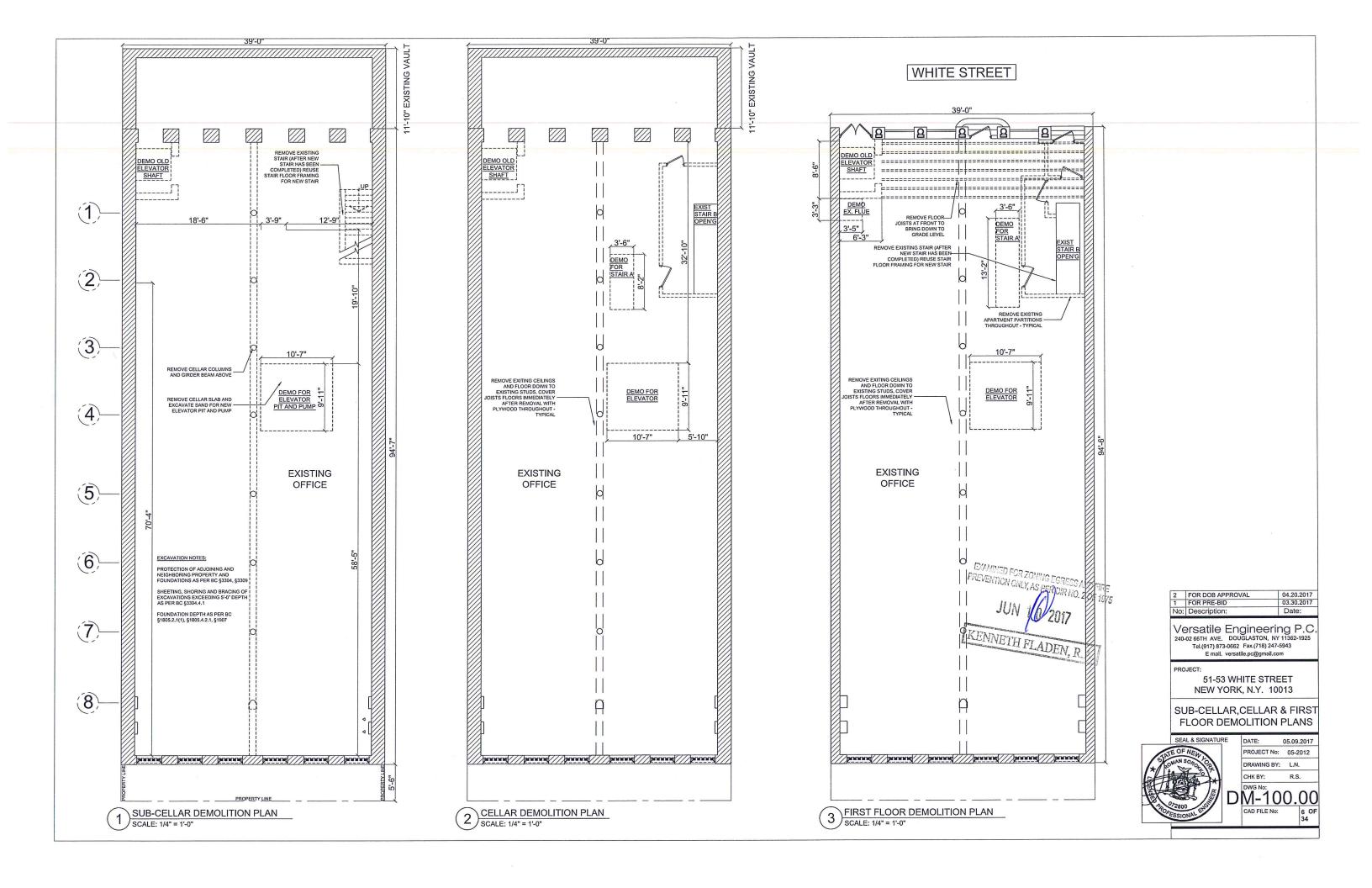
51-53 WHITE STREET NEW YORK, N.Y. 10013

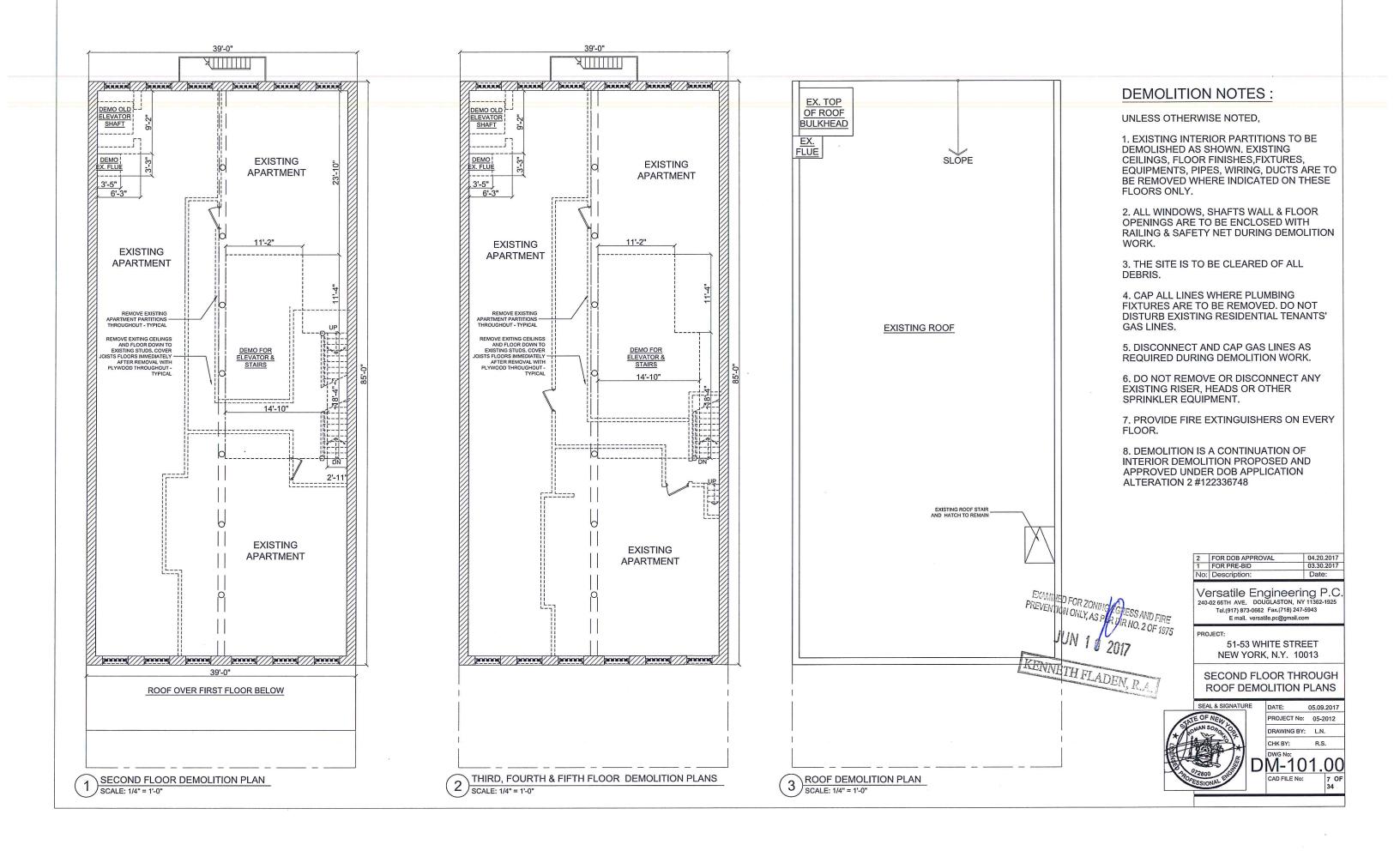
GENERAL NOTES

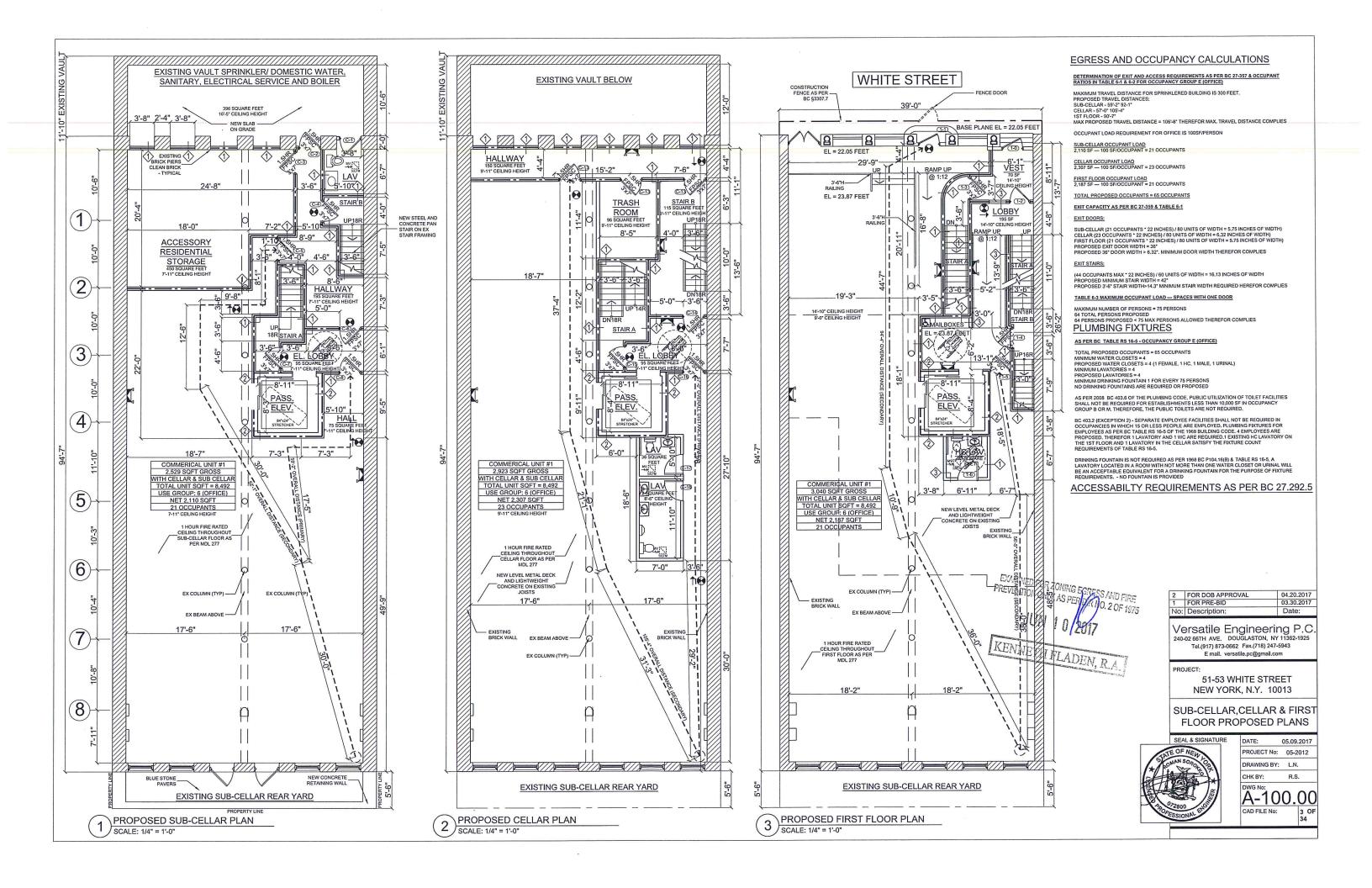
SEAL & SIGNATURE

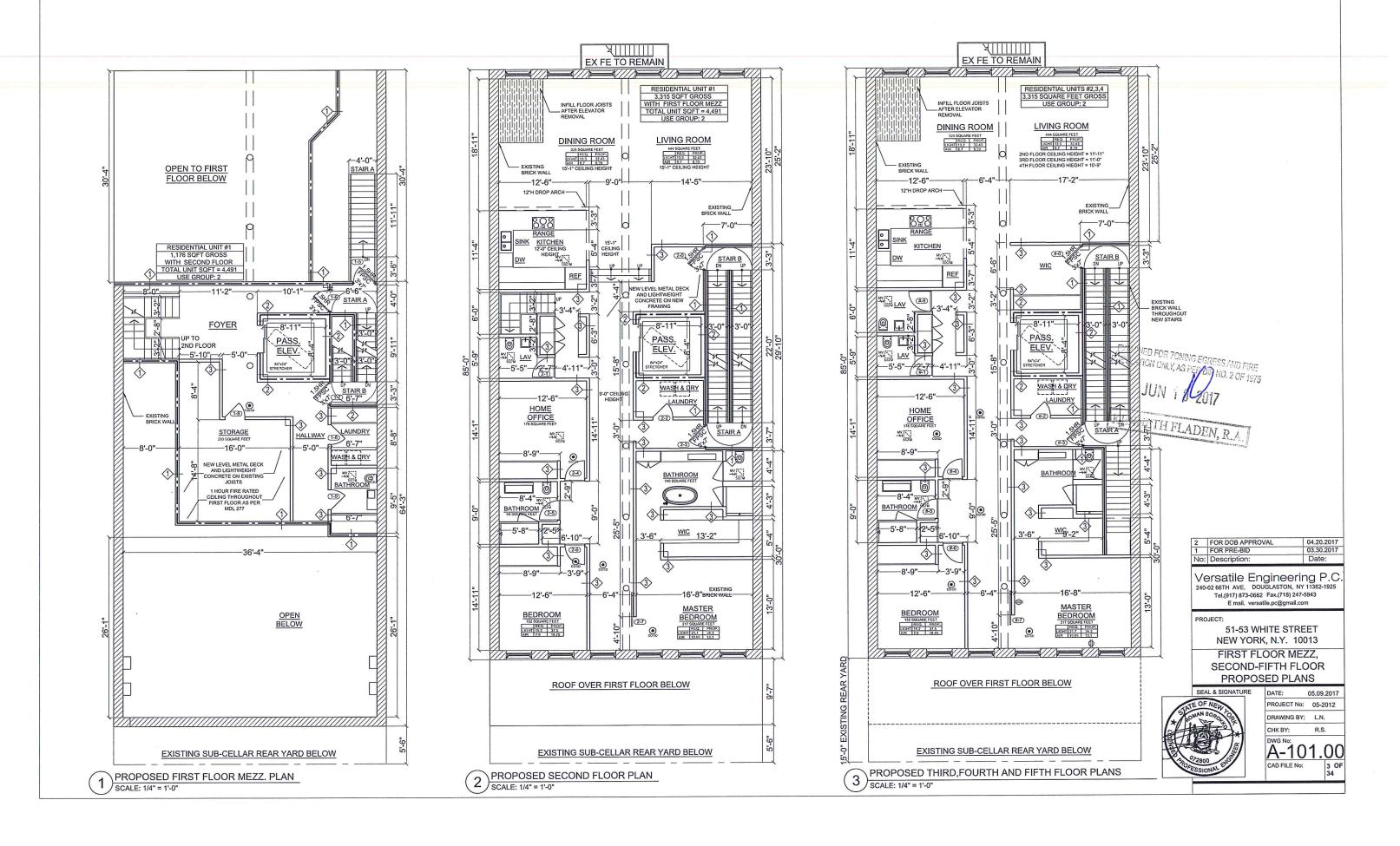
DATE: 05.09.2017 PROJECT No: 05-2012 RAWING BY: L.N. CHK BY:

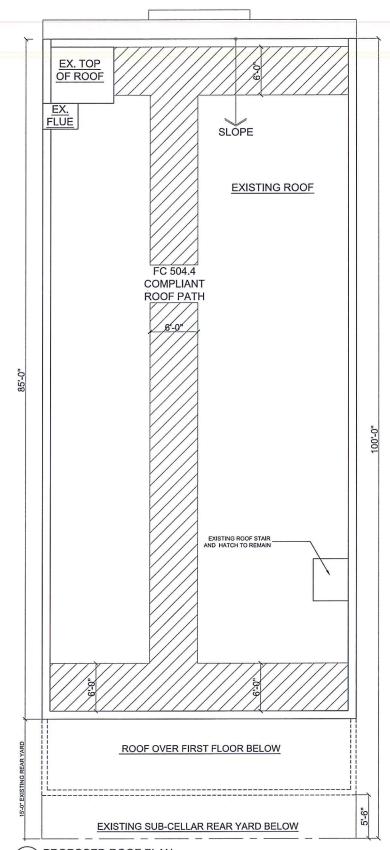
R.S. A-002.00 CAD FILE No:











2	FOR DOB APPROVAL	04.20.2017
1	FOR PRE-BID	03.30.2017
No:	Description:	Date:

Versatile Engineering P.C. 240-02 66TH AVE. DOUGLASTON, NY 11362-1925
Tel.(917) 873-0662 Fax.(718) 247-5943
E mail. versatile.pc@gmail.com

51-53 WHITE STREET NEW YORK, N.Y. 10013

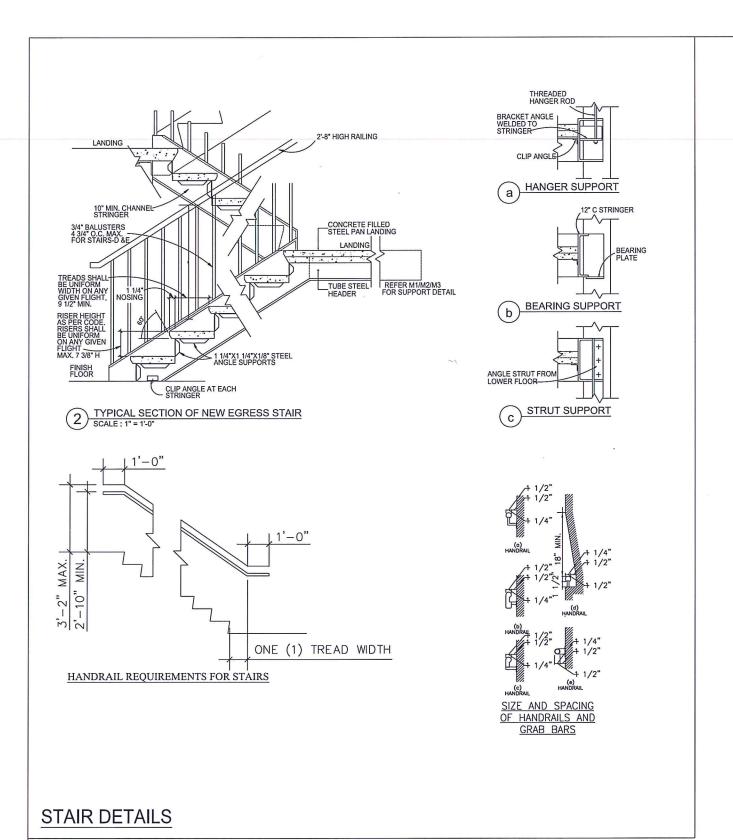
ROOF AND ROOF BULKHEAD PROPOSED PLANS



DATE:	05.09.2017
PROJECT No:	05-2012
DRAWING BY:	L.N.
CHK BY:	R.S.

DWG No:
A-102.00
CAD FILE No:
3 OF
34

PROPOSED ROOF PLAN
SCALE: 1/4" = 1'-0"



EXAMINED FOR ZONING ECRESS AND FIRE PREVENTION ONLY, AS PER DIR NO. 2 OF 1975

KENNETH FLADEN R. 6.1

2	FOR DOB APPROVAL	04.20.2017
1	FOR PRE-BID	03.30.2017
No:	Description:	Date:

Versatile Engineering P.C. 240-02 66TH AVE. DOUGLASTON, NY 11362-1925 Tel.(917) 873-0662 Fax.(718) 247-5943 E mail. versatile.pc@gmail.com

PROJECT:

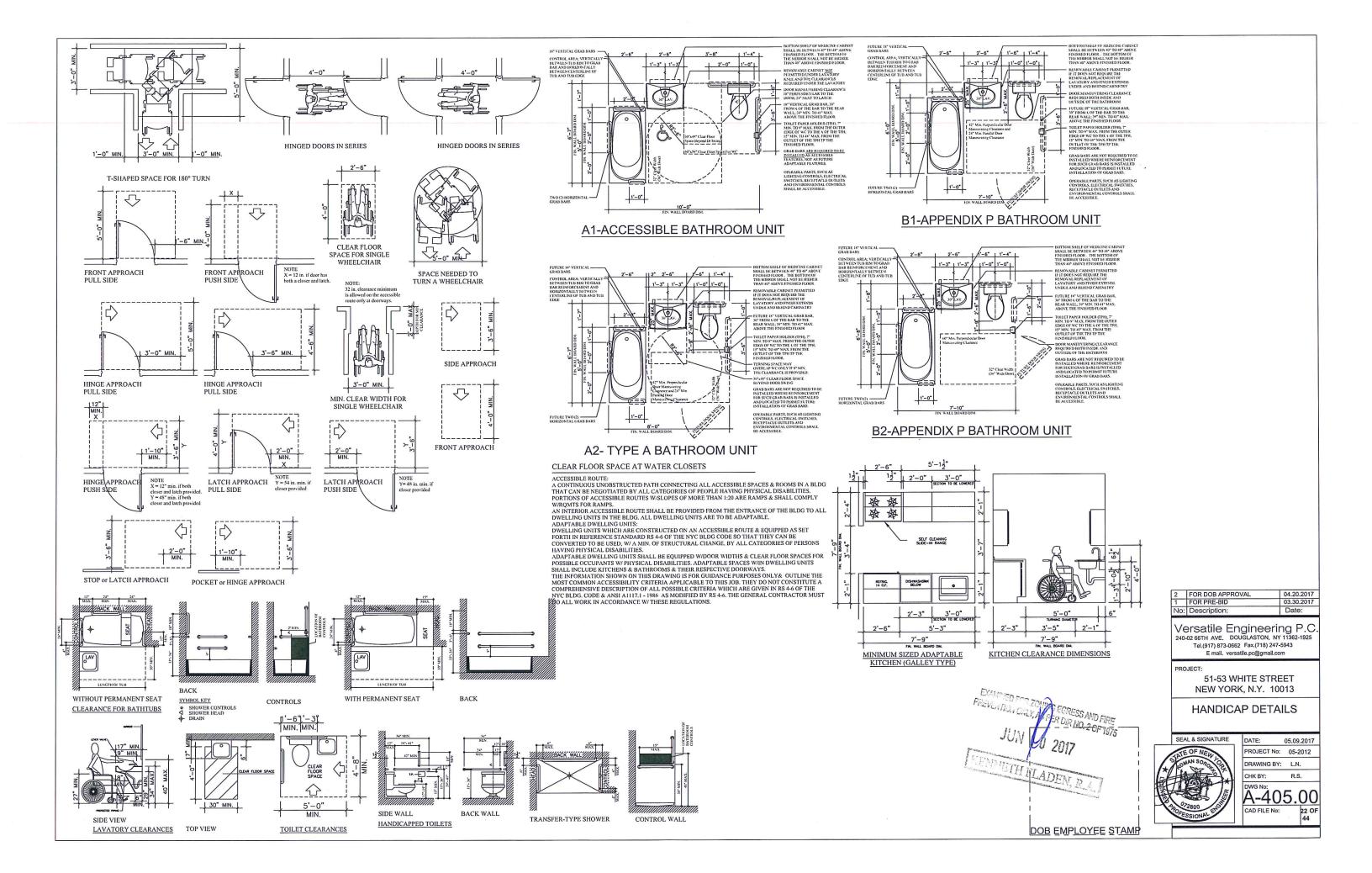
51-53 WHITE STREET NEW YORK, N.Y. 10013

STAIR DETAILS



DATE:	05.09.2017
PROJECT No:	05-2012
DRAWING BY:	L.N.
CHK BY:	R.S.

A-404.00
CAD FILE No: 21 OF 34



CABO/ANSI AI 17.1-1992 NOTES:

4.9.5 Outdoor Conditions. Outdoor stairs and approaches to them shall be designed so that mater will not accumulate on walking surfaces.

4.10 Elevators

4.10.1 New Elevators

4.1 0.1.1 General. Accessible Passenger elevators shall comply with 4. 1 0 and ASME/ANSI AI 7. 1. Freight elevators shall not be considered as meeting the requirements of this section unless the only elevators provided

4.10.1.2 Automatic Operations. Elevator operation shall be automatic. Each car shall be equipped with a self-leveling feature that will automatically bring the car to floor londings within a tolerance of 1/2 in (1.3 mm) under rated looding to zero looding to acro looding so the conditions. This self-leveling feature shall be automatic and independent of the operable part and shall correct for overtravel or undertravel.

4.10-1.3 Coll Buttons. Coll buttons in elevator lobbies and halls shall be centered at 42 in (1055 mm) above the floor. See Fig. B4.10.1. Such call buttons shall have visual signals to indicate when each coll is registered and when each call is onswered. Coll buttons shall be \$3/4 in (1 9 mm) minimum in the smallest dimension. The button that designates the up direction shall be located above the button that designates the 1 down direction. Objects located beneath hall call buttons shall protrude into the elevator lobby 4 in (100 mm) maximum.

4.10.1.4 Hall Signals. A visible and audible signal shall be provided et each hoistway entrance to indicate which car is answering a call and the direction of travel, except that-in-car signals located- in cars, visible from the floor area adjacent to the hall call buttons, and conforming to the requirements of this subsection, shall be acceptable, Audible signals shall sound once for the up direction and twice for the down direction, or shall have verbal annunciators that state the word "up" or "down. Visible signals shall have the following features:

- Hall signal fixtures shall be centered at 072 in (1830 mm) minimum above the lobby floor. See Fig. 84.10.1.
- The visible signal elements shall@ be 2 1/2 in (63 mm) minimum in the. smallest dimension.
- Signals shall be visible from the floor area adjacent to the hall call button.

4.10.1.5* Toctile Signage on Hoistway Entrances. Roised character and Braille floor designations shall be provided on both jambs of elevator hoistway entrances and shall be centered et 60 in (1.525 mm) above the floor. See Fig. B4.1 O. 1. Such characters shall be 2 in (51 mm) high nominal and shall comply with 4.28.6.

4.10.1.6° Door Protective and Reopening Device. Elevator doors shall open and close automatically. Elevator doors shall be provided with a reopening device that shall stop and reopen a cor door and -hoistway door automatically if the door becomes obstructed by an object or person. The device shall be activated by sensing an obstruction passing through the door opening at 5 in and at 29 in'(1 25 mm and 73e mm) above the floor. The device shall not require physical contact to be activated, although contact may occur before the door reverses. Door reopening devices shall remain effective for 20 seconds minimum.

4.10.1.7° Door and Signal Timing for Hall Calls. The minimum acceptable time from notification that a car is answering a call until the doors of that car start to close shall be calculated from one of the following equations:

1.5 ft/S 5 seconds minimum 455 mm/s

where T= total time in seconds and O = distance (in feet or millmeters) from the point in the lobby or corridor

For cars with in-car signols, T be ,gins when the Signol is visible, from the point 60 in (1 525 mm) directly in front of the farthest hall call button and the audible signal is sounded.

4.10.1.9° Inside Dimensions of Elevator Cars. The inside dimensions of elevator cars shall provide space for wheelchoir users to enter the car, maneuver within reach of controls, and exit from the car. The clearance between the car platform sill and the edge of any hoistway londing shall be 1 1/4 in (32 mm) maximum.

4.10.1.10Floor Surfaces. Floor surfaces in elevator cars shall comply with 4.5.,.

4.10.1.11 Illumination Levels .The level of illumination at the,car controls, platfrom, and car threshold and landing sill shall be 5 footcandles,(53.8 lux) minimum.

4.10.1.12° Car Controls. Elevator control panels Shall have the following features,

4.10.1.12.1. Control buttons shall be 3/4 in (1 9

which in their smallest dimension. Control buttons shall be raised, flush, or recessed. control buttons shall be arranged with numbers in ascending order. When two or more Columns of buttons are provided they shall read from left to right. SeeFig. 84.10.1.12(a).

4.10.1,12.2 Designations for control: buttons shall compty with 4.28.2, 4.28.5,and-4;28. The call button for the main entry floor shall be ,designated by star. Raised and Braille designated for control buttons shall be piaced immediately to the left of the button to which the, designations opply. Sec. Fig. 84.10.1.12(b). Floor buttons shall be provided with visible indicators to show that a call has been registered. The visible indication shall cease when the call has been answered.

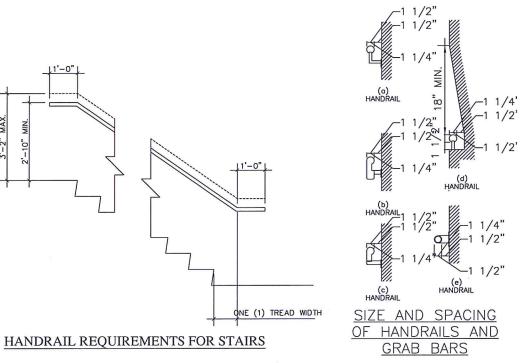
4.10.1.12.3 Floor buttons shall be located 54 in (1370 mm) maximum above the floor for parallel opproach and 48 in -(1 220 mm) maximum for front opproach. Emergency controls, including the emergency alarm, shall be grouped at the bottom of the panel. Emergency control buttons shall have their centelines 35 in (890 mm minimum above the floor. See Fig B410.1.12(c).

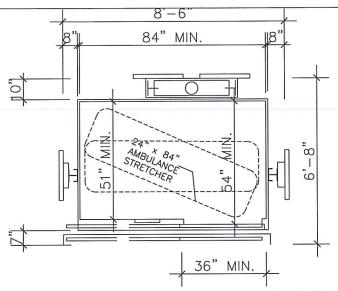
4.10.1.12.4 Control is shall be located, on a front wait if cars have center opening doors, and at the side wall or at the front wall next to the door if cars have side opening doors.

4.10.1.13.1 Visible. Indicator located above the cor control—panel or above the door. Numerals shall be 1/2 in (13mm) minimum. As the cor passes or stops at a floor served—by; the elevator, the corresponding character shall illuminate.

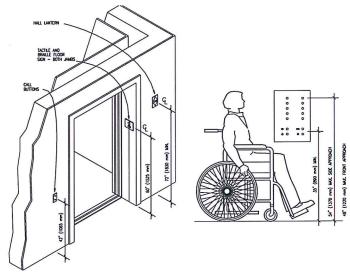
4.10.1.1,3.2 Audible. Indicator shall be 20 decibels minimum with a frequency of 1500 Hz maximum above ambient. Indicator shall be either—an audible signal which sounds when the car passes a floor

4.10.1.14* Emergency Communications. If provided, cor emergency signaling devices between the elevator and a point outside the hoistwy shall comply With ASNE/ANSI A17.1. The highest operable part of a two-way communication system shall be 54 in (1 370, mm) maximum above the floor for parallel approach and 48 in (1220 mm) maximum above the floor for front approach. If the device is located in a closed compartment, the compartment door hardware shall be comply with 4.25. The device shall be identified by roised symbols and teltering complying with 4.28 and located adjacent to the device. If the system uses a handsel, the cord from the panel to the handset shall be 29 in (735 mm) long minimum. The cor emergency signaling device shall not be limited to voice communication. If instructions for use are provided essential information shall be presented in both lactile and visual form.





ACCESSIBLE DIMENSIONS OF ELEVATOR CARS



ELEVATOR REQUIREMENTS



	FOR DOB APPROVAL	04.20.2017
	FOR PRE-BID	03.30.2017
No:	Description:	Date:

Versatile Engineering P.C. 240-02 66TH AVE. DOUGLASTON, NY 11362-1925 Tel.(917) 873-0662 Fax.(718) 247-5943 E mail. versatile.pc@gmail.com

PROJECT:

51-53 WHITE STREET NEW YORK, N.Y. 10013

HANDICAP DETAILS

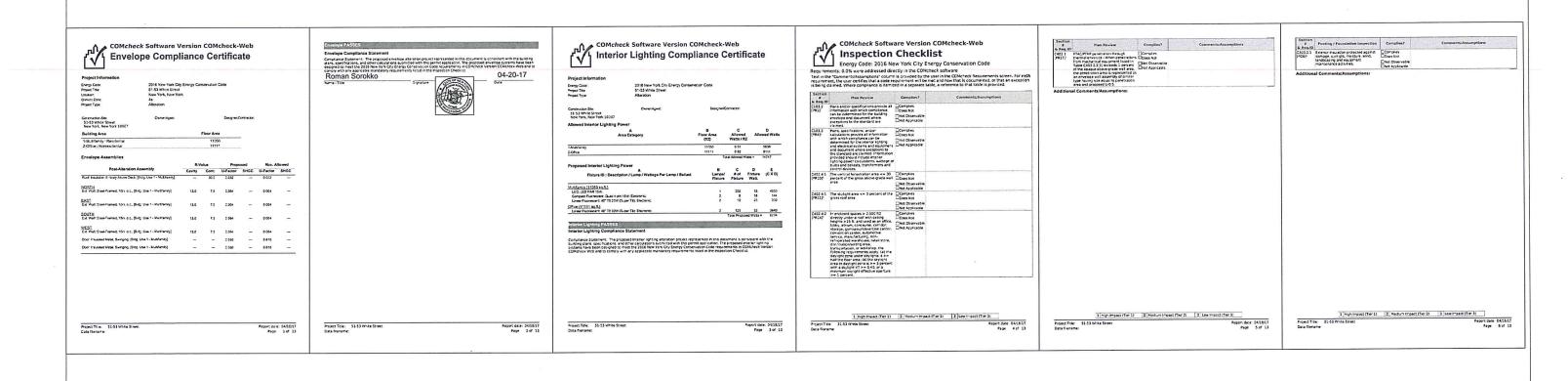


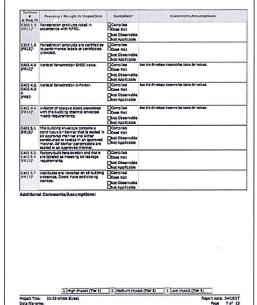
RE	DATE:	05.09.2017
	PROJECT No:	05-2012
13	DRAWING BY:	L.N.
	СНК ВҮ:	R.S.
N. WEER	A-40	6.00

23 OF

CAD FILE No:

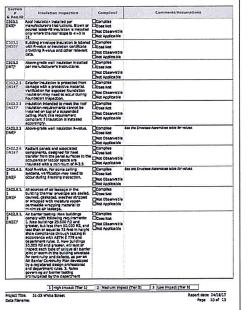
DOB EMPLOYEE STAMP

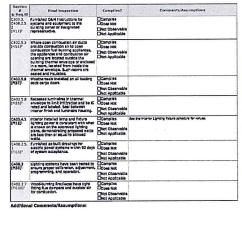




Project Title	51-53 White Street			Recort date: 04/18
	1 High Impact (Tier 1)	2 Hedrum Impact (Tier 2)	3 Low Impect (Tier	31
Addition	al Comments/Assumptions:			
3	gravity dampers where allowed.	DNot Applicable		
	shut when not in use and meet	DNot Observable		
C402.5.5.	Outdoor air and exhaust systems have motorized dampers that automatically			
(ME3)2	close.	□Not Observable □Not Applicable		
C402.5.5. C403.2.4.	Stair and elevator shaft vents have motorized dampers that automatically			
& Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assur	nptions

& Reg.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.1 [EL15] ²	Lighting controls installed to uniformly reduce the lighting load by at least 50%	□Compiles □Does Not □Not Observable	
		□Not Coservable □Not Applicable	
C405.2.1 (EL18)*	Occupancy sensors installed in required spaces.	Ocemples Opoes Not	
		□Not Observable □Not Applicable	
C405 2.1. C405 2.2.	independent lighting controls installed per approved lighting plans and all manual controls readily accessible and	Complies Does Not	
(EL23) ^a	visible to occupants.	□Not Applicable	
C405 2.2.	Automatic controls to shut off all building lighting installed in all	Comples Does Not	
EL22F	buildings.	□Not Coservable	
C405.2.3	Daylight zones provided with	Once Apolicable Ocompiles	
(EL16)	individual controls that control the lights independent of general area	□Does Not □Not Observable	
	light ng.	☐Not Applicable	
C405.2.3, C405.2.3.	Primary sidelighted areas are equipped with required lighting	Comples Does Not	
1. C405.2.3.	controls.	□Not Observable □Not Applicable	
[EL20]1		LINOX Applicable	
C405.2.3,	Enclosed spaces with daylight area under skylights and rooftop monitors	Does Not	
1. C405.2.3.	are equipped with required lighting	□Not Observable	
3 [EL21] ¹	Coloca	□Not Applicable	
C403.2.4 (EL4)-	Separate lighting control devices for specific uses installed per approved	Ocemples	
IEL4P	lighting clans.	□Not Observable □Not Applicable	
C405.2.4	Additional interior lighting power	Ocemples .	
(ELB)-	allowed for special functions per the approved lighting plans and is	Does Not	
	automatically controlled and separated from general lighting.	ONOT Applicable	The second secon
C405.3 [EL6]:	Exit signs do not exceed 5 watts per face.	☐Compiles ☐Does Not	
		□Not Observable □Not Apolicable	





Project Times 33-33 stokes Breef. 17 1 1 UM CNLLY, POPER DIR NO 2 OF THE CONTROL PER DIR NO. 2 OF 1875

51-53 WHITE STREET NEW YORK, N.Y. 10013

Versatile Engineering P.C. 240-02 66TH AVE. DOUGLASTON, NY 11362-1925 Tel.(917) 873-0662 Fax.(718) 247-5943 E mail. versatile.pc@gmail.com

04.20.2017

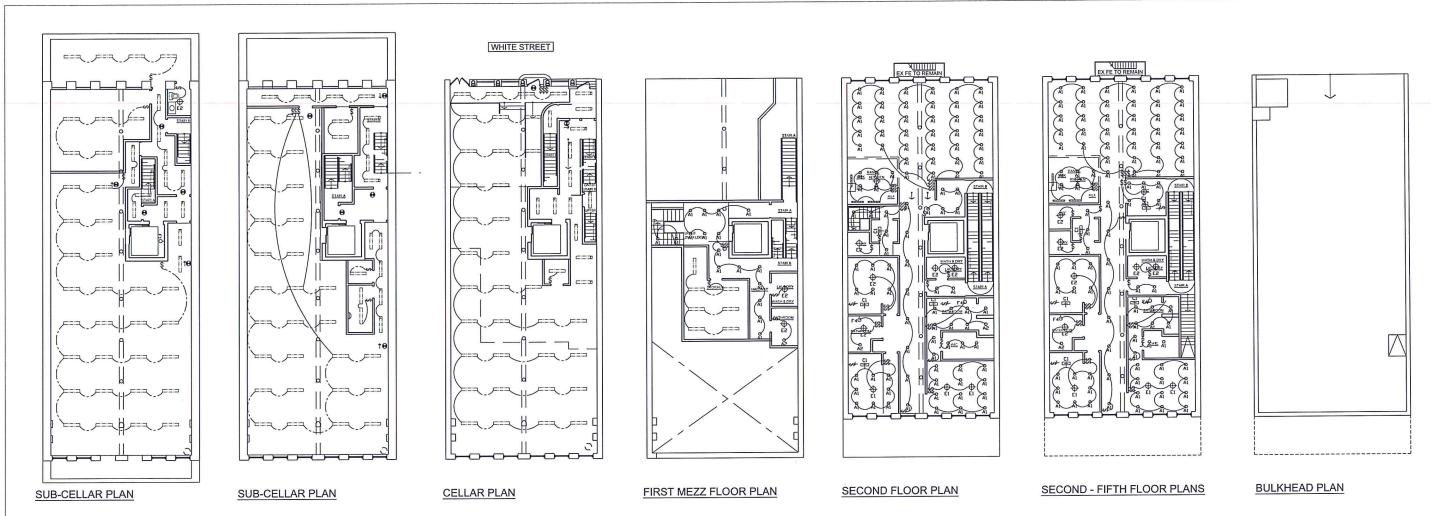
1 OF 44

2 FOR DOB APPROVAL 1 FOR PRE-BID



SEAL & SIGNATURE	DATE:	03.27.2017
TATE OF NEW L	PROJECT No.	05-2012
COMAN SOPO OF	DRAWING BY	: L.N.
100	СНК ВҮ:	R.S.
	DWG No:	14 00

ENERGY ANALYSIS



ELECTRICAL CONTROL NARRATIVES: INTENT:

CORRIDORS/ELEV. LOBBIES **ENERGIZED AT ALL**

AUTOMATIC ON/OFF OF 75% OF FIXTURES. 25% OF FIXTURES TO REMAIN TIMES (IE. EMERGENCY FIXTURES TO REMAIN ON).

STAIRS

ASTRONOMICAL TIMECLOCK WITH OCCUPANCY SENSOR TO DE-ENERGIZE 50% OF FIXTURES, 50% OF FIXTURES TO REMAIN ENERGIZED AT ALL TIMES.

ELEC/MECHANICAL ROOMS

LOCAL SWITCHES WITH DUAL TECHNOLOGY OCCUPANCY SENSOR (MANUAL ON, AUTOMATIC OFF 75% OF FIXTURES) AND ASTRONOMICAL TIMECLOCK SWEEP 25% OF FIXTURES TO REMAIN ENERGIZED AT ALL TIMES (IE. EMERGENCY FIXTURES TO REMAIN ON)

EXTERIOR LIGHTING ANT LOBBY ENTRANCE, EGRESS EXIT, PARKING ENTRY, BULKHEAD ROOF

ASTRONOMICAL TIMECLOCK WITH OCCUPANCY SENSOR TO TURN FIXTURES OFF/ON ACCORDING TO NORMAL HOURS OF OCCUPANCY AND AT ALL HOURS AFTER DUSK TIL DAWN AT 25% ENERGY WITH PHOTOELECTRIC SENSOR POWERING TO 100% ENERGY WHEN ACTIVATED/DENERGIZED 5 MINUTES AFTER NO ACTIVITY.

ECC C405 ELECTRIC POWER AND LIGHTING SYSTEMS (MANDATORY) ALL ELECTRICAL POWER AND LIGHTING SYSTEMS CONTROLS TO COMPLY WITH ALL SUBSECTIONS AS SPECIFIED IN SECTION EC405.2, WO5.5, 405.6, 405.7

ECC C405.1 GENERAL (MANDATORY) DWELLING UNITS WITHIN COMMERCIAL BUILDINGS SHALL BE REQUIRED TO COMPLY WITH SECTION EC405.2 - EC 405.4 PROVIDED THAT A MINIMUM OF 75% OF THE PERMANENTLY INSTALLED LIGHTING FIXTURES. OTHER THAN LOW-VOLTAGE LIGHTING, SHALL BE HIGH EFFICIENCY LAMPS.

ECC C406.1 REQUIREMENTS THE BUILDING IS IN COMPLIANCE WITH EFFICIENCY LIGHTING SYSTEMS IN ACCORDANCE WITH THE SECTION EC406.3 THE WHOLE RESIDENTIAL BUILDING SHALL COMPLY WITH THE MOST CLOSEST BUILDING TYPE. THE BUILDING TYPE THAT WILL BE REFERENCED SHALL BE MULTIFAMILY. THIS BUILDING TYPE HAS A LPD OF .61 (W/FT)

LIGHTING SYSTEM NOTES

THE PARTY WHO WILL CONDUCT THE REQUIRED FUNCTIONAL TESTING, WHERE REQUIRED BY THE CODE OFFICIAL, AN APPROVED PARTY INDEPENDENT FROM THE DESIGN OR CONSTRUCTION OF THE PROJECT SHALL BE RESPONSIBLE FOR THE FUNCTIONAL TESTING AND SHALL PROVIDE DOCUMENTATION TO THE CODE OFFICIAL CERTIFYING THAT THE INSTALLED LIGHTING CONTROLS MEET THE PROVISIONS OF SECTION EC 405 PARTY TO BE SELECTED BY THE OWNER

WHERE OCCUPANT SENSORS, TIME SWITCHES, PROGRAMMABLE SCHEDULE CONTROLS PHOTOSENSORS OR DAYLIGHTING CONTROLS ARE INSTALLED THE FOLLOWING PROCEDURES SHALL BE PERFORMED:

-CONFIRM THAT THE PLACEMENT, SENSITIVITY AND TIME-OUT ADJUSTMENTS FOR OCCUPANT SENSORS YIELD ACCEPTABLE PERFORMANCE

-CONFIRM THAT THE TIME SWITCHES AND PROGRAMMABLE SCHEDULE CONTROLS ARE PROGRAMMED TO TURN THE LIGHTS OFF. PAR NO. 2 OF 1975

-CONFIRM THAT THE PLACEMENT AND SENSITIVITY ADJUSTMENTS FOR PHOTOSENSOR REDUCE THE ELECTRIC LIGHT BASED ON THE AMOUNT OF USABLE DAYLIGHT IN THE SPACE SPECIFIED. KENNETH FLADEN, R.A

LIGHTING SCHEDULE

QTY.	TYPE		MODEL	ELECTRIC BALLAST	MAX WATTS	DIMENSIONS	NOTES
210	Α	LINEAR LED	LITHONIA	120/20	55 MAX WATTS	48" T8 LED BULB	
48	В	LINEAR LED	LITHONIA	120/20	55 MAX WATTS	48" T8 LED BULB	EMERGENCY
20	С	RECESSED DOWNLIGHT	JESCO RS2000B	120/20	25 MAX WATTS	4"	
524	D	SURFACE MOUNTED	TECH LIGHT 700CQLC LED	120/20	100 MAX WATTS	12	EMERGENCY
8	Е	SURFACE MOUNTED	SCHOOLHOUSE	120/20	200 MAX WATTS	12"	
17	F	BATH WALL SCONCE	E-CONOLIGHT E-S2AL013UW	120/20			
7	G	STAIR WALL SCONCE	HALO H2920ICT	120/20	100 MAX WATTS	4"	

2	FOR DOB APPROVAL	04.20.2017
1	FOR PRE-BID	03.30.2017
No:	Description:	Date:

Versatile Engineering P.C. 240-02 66TH AVE. DOUGLASTON, NY 11362-1925 Tel.(917) 873-0662 Fax.(718) 247-5943 E mail. versatile.pc@gmail.com

PROJECT

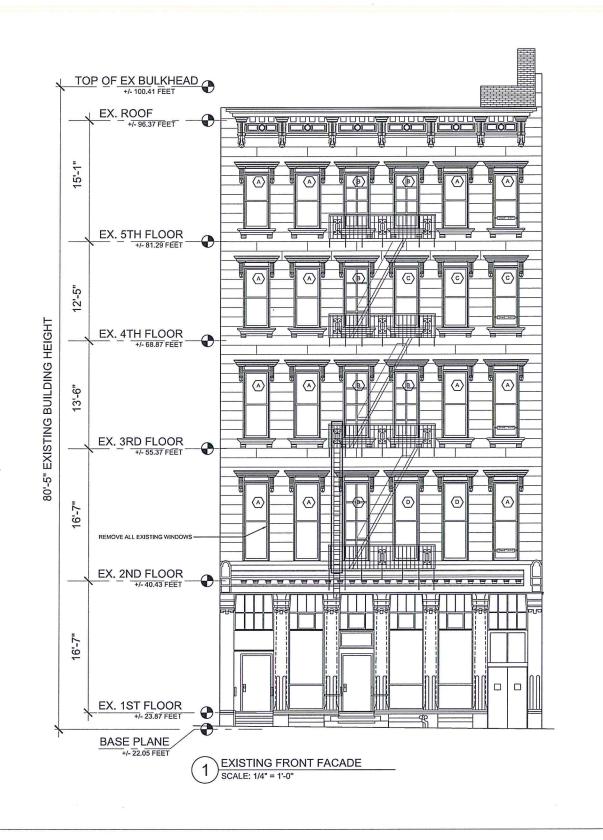
51-53 WHITE STREET NEW YORK, N.Y. 10013

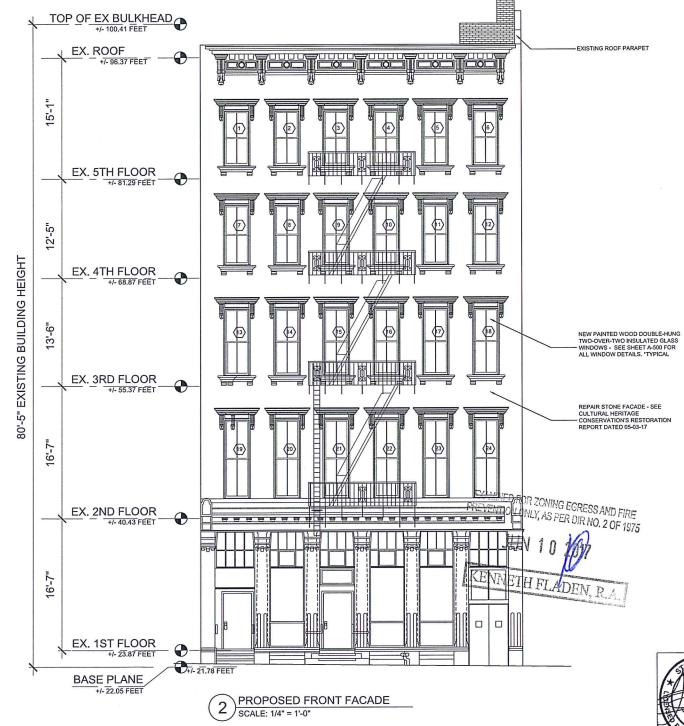
REFLECTED CEILING PLAN, LIGHTING NOTES & SCHED



	DATE:	05.09.2017
	PROJECT No:	05-2012
	DRAWING BY:	L.N.
	CHK BY:	R.S.
_	DWG No:	0.00

EN-002.00 CAD FILE No: 3 OF





 2
 FOR DOB APPROVAL
 04.20.2017

 1
 FOR PRE-BID
 03.30.2017

 No:
 Description:
 Date:

Versatile Engineering P.C. 240-02 66TH AVE. DOUGLASTON, NY 11362-1925 Tel.(917) 873-0662 Fax.(718) 247-5943 E mail, versatile.pc@mail.com

PROJECT:

51-53 WHITE STREET NEW YORK, N.Y. 10013

EXISTING AND PROPOSED FRONT FACADE

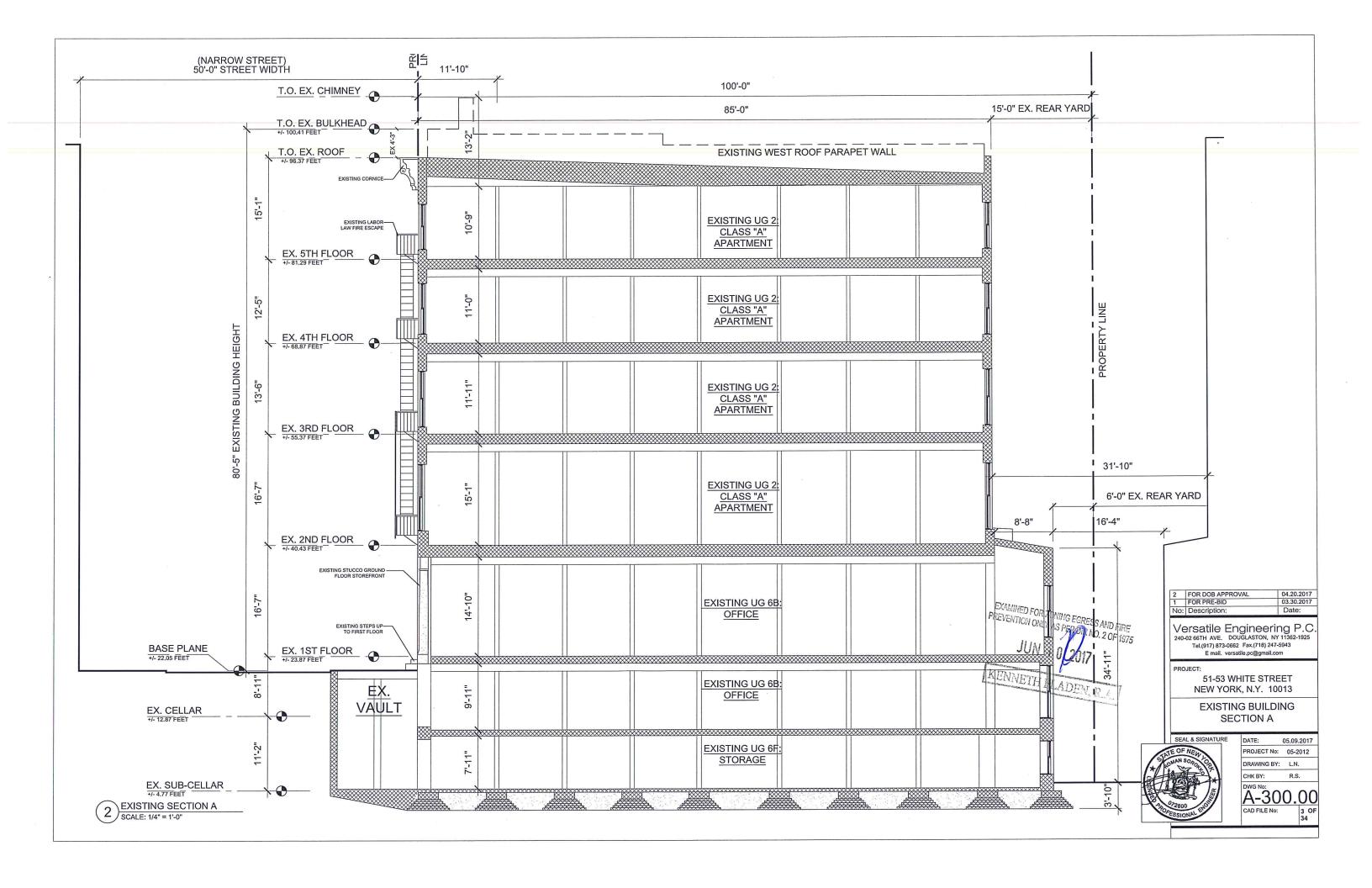


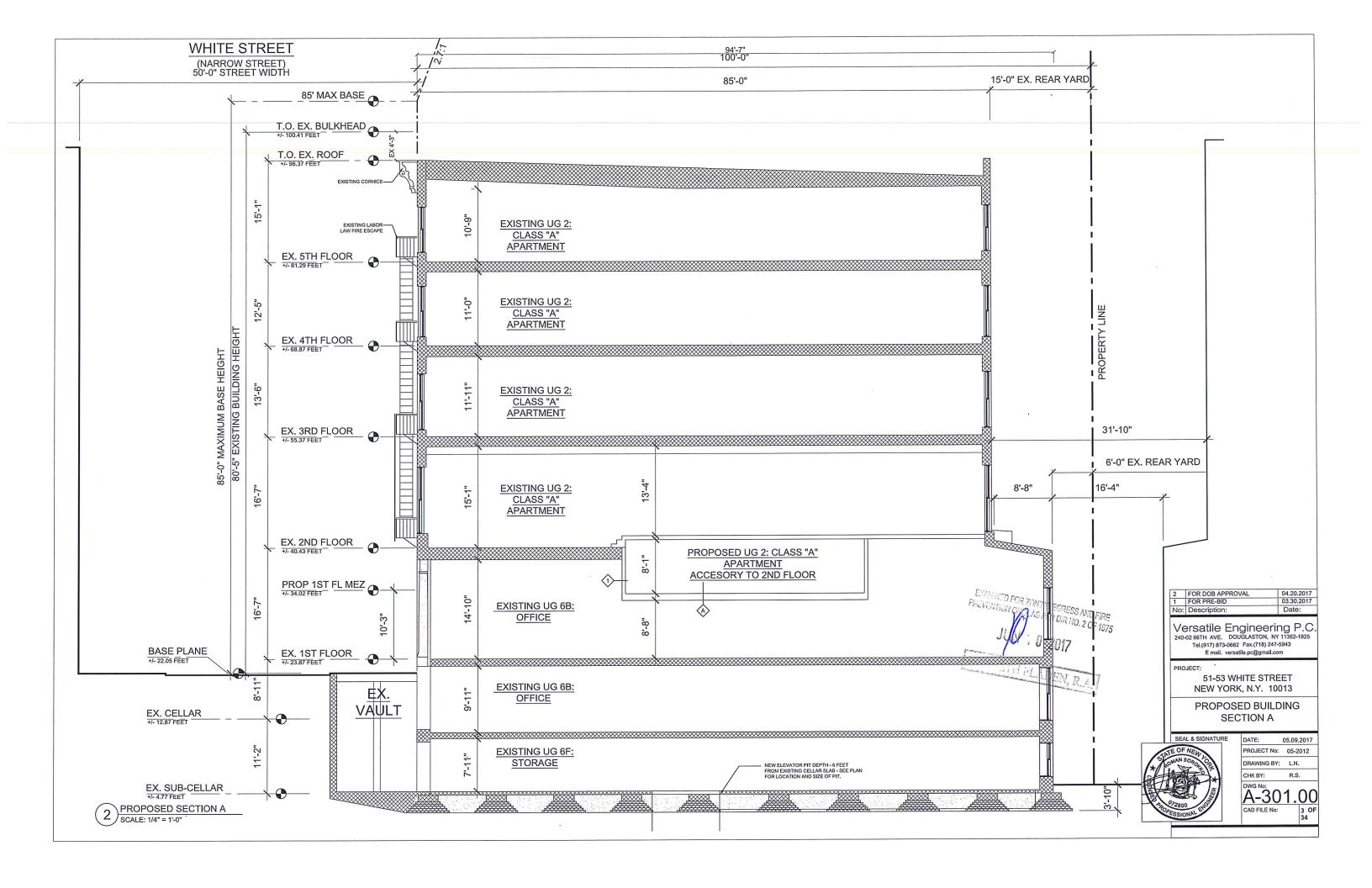
-	Vestal and the party of the	
	DATE:	05.09.201
	PROJECT No:	05-2012
	DRAWING BY:	L.N.
	CHK BY:	R.S.
	DWG No:	

A-200.00

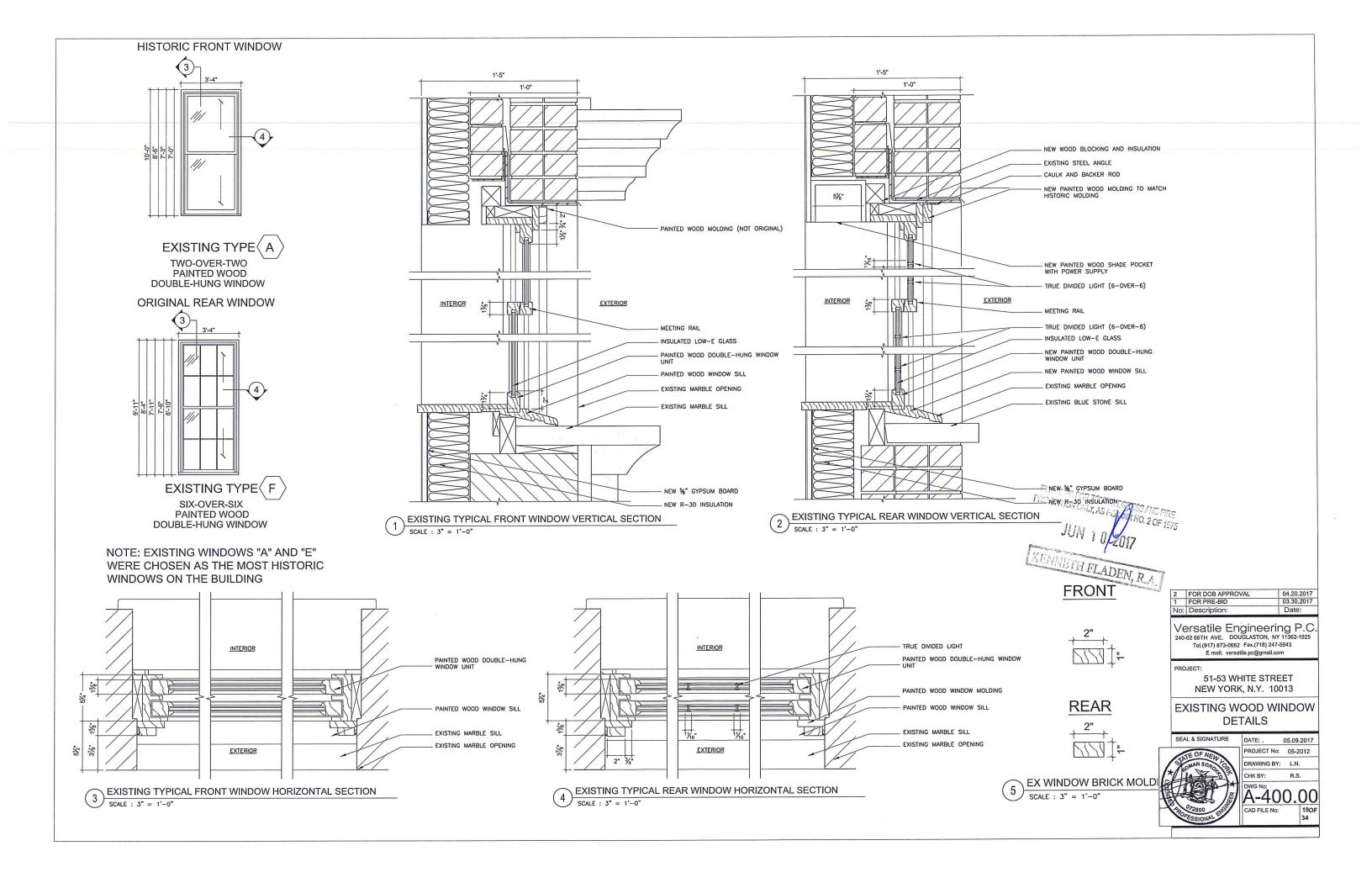
CAD FILE No: 3 OF

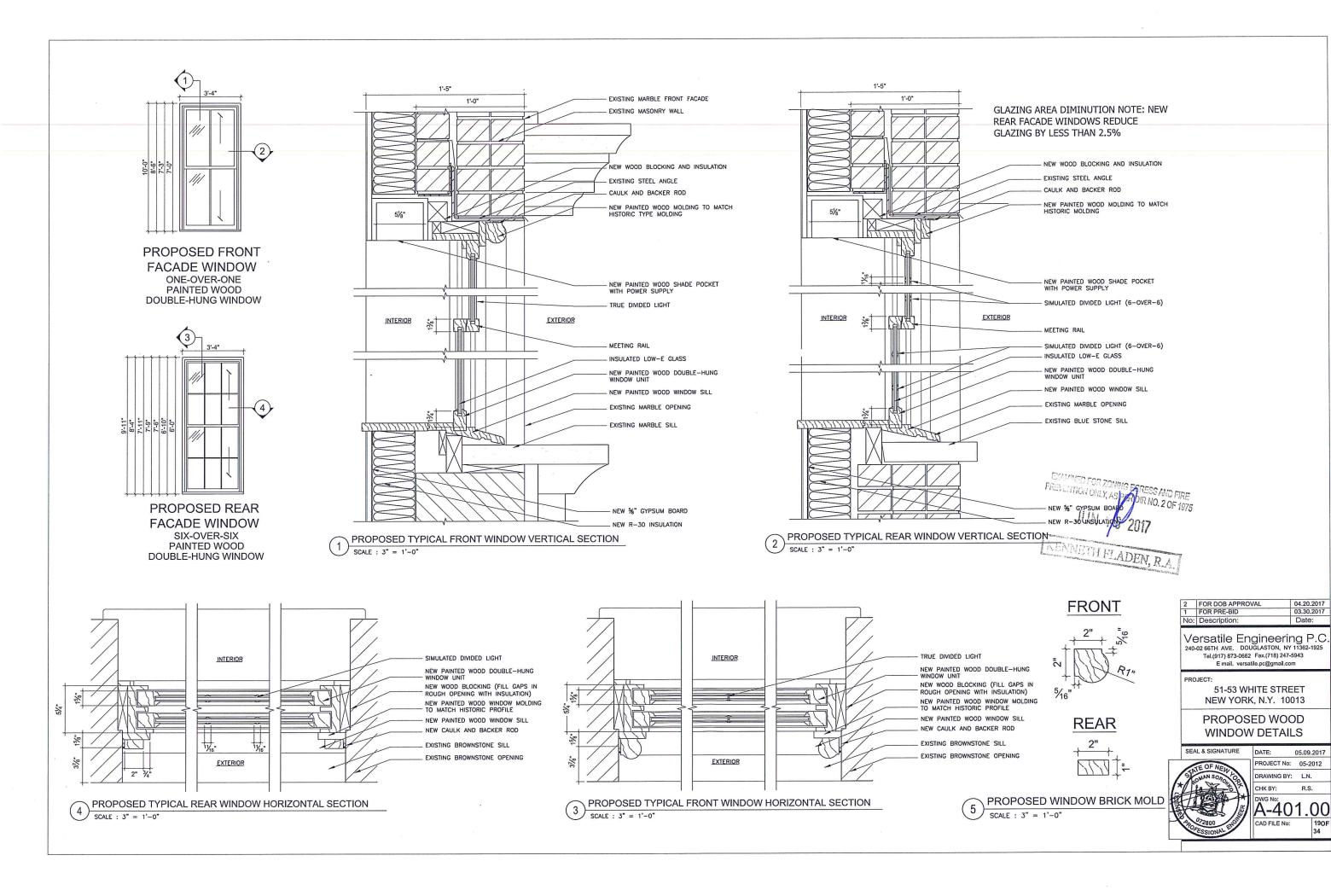












WINDOW SCHEDULE

ALL DIMENSIONS ARE APPROXIMATE & SHOULD BE VERIFIED IN THE FIELD. WORK INCLUDES REMOVAL OF EXISTING UNITS, DISPOSAL OF ALL DEBRIS, SET, LEVEL, PLUMB AND SHIM UNIT AS NECESSARY, INSULATE AROUND PERMITER TO FUNIT, EXTERIOR HISTORIC TRIMS, CAULK EXTERIOR WITH URETHANE SEALANT

	FLOOR	1	и.о.	WINDOW	WINDOW DESCRIPTION
NO.		WIDTH	HEIGHT	MATERIAL	
1	FIFTH	3'-4"	7'-0"	PAINTED WOOD	SINGLE-HUNG, W & C, 2-OVER-2, TD
2	FIFTH	3'-4"	7'-0"	PAINTED WOOD	SINGLE-HUNG, W & C, 2-OVER-2, TD
3	FIFTH	3'-4"	7'-0"	PAINTED WOOD	
4	FIFTH	3'-4"	7'-0"	PAINTED WOOD	SINGLE-HUNG, W & C, 2-OVER-2, TD
5	FIFTH	3'-4"	7'-0"	PAINTED WOOD	
6	FIFTH	3'-4"	7'-0"	PAINTED WOOD	
7	FOURTH	3'-4"	7'-0"	PAINTED WOOD	
8	FOURTH	3'-4"	7'-8"	PAINTED WOOD	
9	FOURTH	3'-4"	7'-8"	PAINTED WOOD	
10	FOURTH	3'-4"	7'-8"	PAINTED WOOD	
11	FOURTH	3'-4"	7'-8" 7'-8"	PAINTED WOOD PAINTED WOOD	
13	THIRD	3'-4"	8'-6"	PAINTED WOOD	SINGLE-HUNG, W & C, 2-OVER-2, TD
14	THIRD	3'-4"	8'-6"	PAINTED WOOD	SINGLE-HUNG, W & C, 2-OVER-2, TD
15	THIRD	3'-4"	8'-6"	PAINTED WOOD	SINGLE-HUNG, W & C, 2-OVER-2, TD
16	THIRD	3'-4"	8'-6"	PAINTED WOOD	SINGLE-HUNG, W & C, 2-OVER-2, TD
17	THIRD	3'-4"	8'-6"	PAINTED WOOD	SINGLE-HUNG, W & C, 2-OVER-2, TD
18	THIRD	3'-4"	8'-6"	PAINTED WOOD	SINGLE-HUNG, W & C, 2-OVER-2, TD
19	SECOND	3'-4"	10'-0"	PAINTED WOOD	SINGLE-HUNG, W & C, 2-OVER-2, TD
20	SECOND	3'-4"	10'-0"	PAINTED WOOD	SINGLE-HUNG, W & C, 2-OVER-2, TD
21	SECOND	3'-4"	10'-0"	PAINTED WOOD	SINGLE-HUNG, W & C, 2-OVER-2, TD
22	SECOND	3'-4"	10'-0"	PAINTED WOOD	SINGLE-HUNG, W & C, 2-OVER-2, TD
23	SECOND	3'-4"	10'-0"	PAINTED WOOD	SINGLE-HUNG, W & C, 2-OVER-2, TD
24	SECOND	3'-4"	10'-0"	PAINTED WOOD	SINGLE-HUNG, W & C, 2-OVER-2, TD
26	FIFTH	3'-4"	6'-10"	PAINTED WOOD	SINGLE-HUNG, W & C, 6-OVER-6, TD
27	FIFTH	3'-4"	6'-10"	PAINTED WOOD	SINGLE-HUNG, W & C, 6-OVER-6, TD
28	FIFTH	3'-4"	6'-10"	PAINTED WOOD	SINGLE-HUNG, W & C, 6-OVER-6, TD
29	FIFTH	3'-4"	6'-10"	PAINTED WOOD	SINGLE-HUNG, W & C, 6-OVER-6, TD
30	FIFTH	3'-4"	6'-10"	PAINTED WOOD	SINGLE-HUNG, W & C, 6-OVER-6, TD
	FOURTH	3'-4"	7'-6"	PAINTED WOOD	SINGLE-HUNG, W & C, 6-OVER-6, SD
	FOURTH	3'-4"	7'-6"	PAINTED WOOD	SINGLE-HUNG, W & C, 6-OVER-6, SD
	FOURTH	3'-4"	7'-6"	PAINTED WOOD	SINGLE-HUNG, W & C, 6-OVER-6, SD
	FOURTH	3'-4"	7'-6"	PAINTED WOOD	SINGLE-HUNG, W & C, 6-OVER-6, SD
		3'-4"	7'-6" 7'-6"	PAINTED WOOD	
	FOURTH	3'-4"	7'-6"	PAINTED WOOD PAINTED WOOD	
37	THIRD	3'-4"	8'-4"	PAINTED WOOD	
38	THIRD	3'-4"	8'-4"	PAINTED WOOD	
39	THIRD	3'-4"	8'-4"	PAINTED WOOD	
40	THIRD	3'-4"	8'-4"	PAINTED WOOD	
41	THIRD	3'-4"	8'-4"	PAINTED WOOD	SINGLE-HUNG, W & C, 6-OVER-6, SD
42	THIRD	3'-4"	8'-4"	PAINTED WOOD	SINGLE-HUNG, W & C, 6-OVER-6, SD
43	SECOND	3'-4"	9'-8"	PAINTED WOOD	SINGLE-HUNG, W & C, 6-OVER-6, SD
44	SECOND	3'-4"	9'-8"	PAINTED WOOD	SINGLE-HUNG, W & C, 6-OVER-6, SD
45	SECOND	3'-4"	9'-8"	PAINTED WOOD	SINGLE-HUNG, W & C, 6-OVER-6, SD
46	SECOND	3'-4"	9'-8"	PAINTED WOOD	SINGLE-HUNG, W & C, 6-OVER-6, SD
47	SECOND	3'-4"	9'-8"	PAINTED WOOD	SINGLE-HUNG, W & C, 6-OVER-6, SD
48	SECOND	3'-4"	9'-8"	PAINTED WOOD	SINGLE-HUNG, W & C, 6-OVER-6, SD
49	FIRST	3'-4"	7'-9"	PAINTED WOOD	SINGLE-HUNG, W & C, 6-OVER-6, SD
50	FIRST	3'-4"	7'-9"	PAINTED WOOD	SINGLE-HUNG, W & C, 6-OVER-6, SD
51	FIRST	3'-4"	7'-9"	PAINTED WOOD	SINGLE-HUNG, W & C, 6-OVER-6, SD
52	FIRST	3'-4"	7'-9"	PAINTED WOOD	SINGLE-HUNG, W & C, 6-OVER-6, SD
53	FIRST	3'-4"	7'-9"	PAINTED WOOD	SINGLE-HUNG, W & C, 6-OVER-6, SD
	FIRST	3'-4"	7'-9" 7'-9"	PAINTED WOOD PAINTED WOOD	SINGLE-HUNG, W & C, 6-OVER-6, SD SINGLE-HUNG, W & C, 6-OVER-6, SD
55 56	CELLAR	3'-4"	7'-9"	PAINTED WOOD	SINGLE-HUNG, W & C, 6-OVER-6, SD SINGLE-HUNG, W & C, 6-OVER-6, SD
57	CELLAR	3'-4"	7'-9"	PAINTED WOOD	SINGLE-HUNG, W & C, 6-OVER-6, SD
58	CELLAR	3'-4"	7'-9"	PAINTED WOOD	SINGLE-HUNG, W & C, 6-OVER-6, SD
59	CELLAR	3'-4"	7'-9"	PAINTED WOOD	SINGLE-HUNG, W & C, 6-OVER-6, SD
60	CELLAR	3'-4"	7'-9"	PAINTED WOOD	SINGLE-HUNG, W & C, 6-OVER-6, SD
61	SUB-CEL	3'-4"	6'-0"	PAINTED WOOD	
62	SUB-CEL	3'-4"	6'-0"	PAINTED WOOD	SINGLE-HUNG, W & C, 6-OVER-6, SD
	SUB-CEL	3'-4"	7'-0"	PAINTED WOOD	DOOR
63				PAINTED WOOD	DOOR
63 64	SUB-CEL	3'-4"	7-0	FAINTED WOOD	
	SUB-CEL SUB-CEL	3'-4"	7'-0" 6'-0"	PAINTED WOOD	
64					SINGLE-HUNG, W & C, 6-OVER-6, SD SINGLE-HUNG, W & C, 6-OVER-6, SD

WOOD WINDOWS BY PHARETT OR APPROVED EQUAL.
ALL WINDOWS TO BE LOW-E GLASS-CLEAR, DOUBLE
PANE WINDOWS WITH MIN .068 SHGC FACTOR.

DOOR SCHEDULE

L	JOUR S	SOLIFF	JULL										
NO). FLOOR	SIZE W H	ROOM	HARDWARE TYPE	SILL TYPE	NOTES							
С	0 CELLAR	3'-0" x 7'-0	STORAGE	STORE ROOM	WEATHER	1 1/2 HR FPSC DOOR	3-11	THIRD	2'-10" x 7'-0	WASH/DRY	DUMMY	NONE	12X12 INCH VENT, UNDERCUT
C		3'-0" x 7'-0	GARRAGE	PUSH BAR	WEATHER	1 1/2 HR FPSC DOOR	3-12	THIRD	3'-0" x 7'-0	APT 6 ENTRY	EXTERIOR	METAL	1 1/2 HR FPSC DOOR
C		3'-0" x 7'-0	STAIR	PUSH BAR	WEATHER	1 1/2 HR FPSC DOOR	3-13	THIRD	2-10" x 7'-0	TRASH	PASSAGE	WEATHER	1 1/2 HR FPSC DOOR
С		3'-0" x 7'-0	STORAGE	STORE ROOM	WEATHER	1 1/2 HR FPSC DOOR	3-14	THIRD	3'-0" x 7'-0	STAIR	PASSAGE	WEATHER	1 1/2 HR FPSC DOOR
С			COMPACTOR	STORE ROOM	WEATHER	1 1/2 HR FPSC DOOR	3-15	THIRD	3'-0" x 7'-0	STAIR	PASSAGE	WEATHER	1 1/2 HR FPSC DOOR
C		3'-0" x 7'-0	STAIR	PUSH BAR	WEATHER	1 1/2 HR FPSC DOOR	3-16	THIRD	3'-0" x 7'-0		EXTERIOR	METAL	1 1/2 HR FPSC DOOR
C			ELEC METER	STORE ROOM	WEATHER	1 1/2 HR FPSC DOOR	3-17	THIRD	(2)2'-6" x 7'-0		DUMMY	NONE	
- C			BIKE STOR	STORE ROOM	WEATHER	1 1/2 HR FPSC DOOR	3-18	THIRD	2'-10" x 7'-0		DUMMY	NONE	12X12 INCH VENT, UNDERCUT
C		3'-0" x 7'-0	WAT. METER	STORE ROOM	WEATHER	1 1/2 HR FPSC DOOR	3-19	THIRD	2'-10" x 7'-0		PRIVACY	NONE	
1-		3'-0" x 7'-0	BLDG. ENTRY	EXTERIOR	METAL	INSULATED GLASS, SC	3-20	THIRD	2'-10" x 7'-0	BED	PRIVACY	NONE	
1-		3'-0" x 7'-0	CEL. ENTRY	EXTERIOR	METAL	INSULATED GLASS, SC	3-21	THIRD	(2)2'-6" x 7'-0		DUMMY	NONE	
1-	2 FIRST	3'-0" x 7'-0	VESTIBULE	EXTERIOR	METAL	INSULATED GLASS, SC	3-22	THIRD	(2)2'-0" x 7'-0		ACCORDION	NONE	
- 1-	3 FIRST	3'-0" x 7'-0	APT 1 ENTRY	EXTERIOR	METAL	1 1/2 HR FPSC DOOR	3-23	THIRD	(2)2'-0" x 7'-0		ACCORDION	NONE	
1-	4 FIRST	(2)2'-0" x 7'-0	CLOSET	ACCORDION	NONE		3-24	THIRD	2'-10" x 7'-0		PRIVACY	STONE	
1-	5 FIRST	2'-10" x 7'-0		PRIVACY	STONE		4-0	FOURTH	(2)2'-0" x 7'-0		ACCORDION	NONE	
1-	FIRST	2-10" x 7'-0		PASSAGE	WEATHER		4-1	FOURTH	(2)2'-0" x 7'-0		ACCORDION	NONE	
. 1-		3'-0" x 7'-0		PASSAGE	WEATHER	1 1/2 HR FPSC DOOR	4-2	FOURTH	(2)2'-6" x 7'-0		DUMMY	NONE	
- 1-		3'-0" x 7'-0		PASSAGE	WEATHER	1 1/2 HR FPSC DOOR	4-3	FOURTH	2'-10" x 7'-0		PRIVACY	NONE	
- 1-			APT 2 ENTRY	EXTERIOR	METAL	1 1/2 HR FPSC DOOR	4-4	FOURTH	2'-10" x 7'-0		PRIVACY	NONE	
1-		2'-10" x 7'-0		PRIVACY	STONE		4-5	FOURTH	(2)2'-0" x 7'-0		ACCORDION	NONE	
1-		2'-10" x 7'-0		DUMMY	NONE		4-6	FOURTH	2'-10" x 7'-0		DUMMY	NONE	
1-		2'-10" x 7'-0		DUMMY	NONE	12X12 INCH VENT, UNDERCUT	4-7	FOURTH	2'-10" x 7'-0		PRIVACY	NONE	
_ 1-		2'-10" x 7'-0		PRIVACY	NONE		4-8	FOURTH	(2)2'-0" x 7'-0		ACCORDION	NONE	
- 1-		(2)2'-0" x 7'-0		ACCORDION	NONE		4-9	FOURTH	2'-10" x 7'-0		PRIVACY	NONE	
1-		2'-10" x 7'-0		PRIVACY	STONE		4-10	FOURTH	(2)2'-6" × 7'-0		DUMMY	NONE	12X12 INCH VENT, UNDERCUT
1-		2'-10" x 7'-0		PRIVACY	NONE		4-11	FOURTH	2'-10" x 7'-0		DUMMY	NONE	
1-		(2)2'-0" x 7'-0		ACCORDION	NONE		4-12	FOURTH		APT 8 ENTRY		METAL	1 1/2 HR FPSC DOOR
2-		(2)2'-0" x 7'-0		ACCORDION	NONE		4-13	FOURTH	3'-0" x 7'-0	STAIR	PASSAGE	WEATHER WEATHER	1 1/2 HR FPSC DOOR
		(2)2'-0" x 7'-0		ACCORDION	NONE		4-14	FOURTH	2-10" x 7'-0		PASSAGE		1 1/2 HR FPSC DOOR
_ 2-		2'-10" x 7'-0		DUMMY	NONE		4-15	FOURTH	3'-0" x 7'-0	STAIR APT 7 ENTRY	PASSAGE EXTERIOR	METAL	1 1/2 HR FPSC DOOR
2-		2'-10" x 7'-0		PRIVACY	STONE		4-16	FOURTH			DUMMY	NONE	I IIZ HK FF3C DOOK
2.		(2)2'-0" x 7'-0		ACCORDION	NONE		4-17 4-18	FOURTH FOURTH	(2)2'-6" x 7'-0 2'-10" x 7'-0		DUMMY	NONE	12X12 INCH VENT, UNDERCUT
2.		2'-10" x 7'-0		PRIVACY	NONE		4-18	FOURTH	2'-10" x 7'-0		PRIVACY	NONE	12X12 INCH VENT, ONDERCOT
2		(2)2'-6" x 7'-0		DUMMY	NONE NONE		4-19	FOURTH	2'-10" x 7'-0		PRIVACY	NONE	
2.		2'-10" x 7'-0		PRIVACY			4-21	FOURTH	2'-10" x 7'-0		PRIVACY	NONE	
2-		(2)2'-0" x 7'-0 2'-10" x 7'-0		ACCORDION PRIVACY	NONE STONE		4-21	FOURTH	(2)2'-6" x 7'-0		DUMMY	NONE	
2-			APT 2 ENTRY	EXTERIOR	METAL	1 1/2 HR FPSC DOOR	4-23	FOURTH	(2)2'-0" x 7'-0		ACCORDION	NONE	
2		(2)2'-6" x 7'-0		DUMMY	NONE	1 1/2 TIK I F3C DOOK	4-24	FOURTH	(2)2'-0" x 7'-0		ACCORDION	NONE	
2.		2'-10" x 7'-0	WASH/DRY	DUMMY	NONE	12X12 INCH VENT, UNDERCUT	4-25	FOURTH	2'-10" x 7'-0		PRIVACY	NONE	
2		2'-10" x 7'-0	WASH/DRY	DUMMY	NONE	12X12 INCH VENT, UNDERCUT	5-0	FIFTH	(2)2'-0" x 7'-0		ACCORDION	NONE	
2		(2)2'-6" x 7'-0		DUMMY	NONE	IEXTE INOT VEITI, GREEKGOT	5-1	FIFTH	(2)2'-0" x 7'-0		ACCORDION	NONE	
2		2'-10" x 7'-0		PRIVACY	STONE		5-2	FIFTH	(2)2'-6" x 7'-0		DUMMY	NONE	
2-		2'-10" x 7'-0		PRIVACY	NONE		5-3	FIFTH	2'-10" x 7'-0		PRIVACY	NONE	
2.		(2)2'-6" x 7'-0		DUMMY	NONE		5-4	FIFTH	2'-10" x 7'-0		PRIVACY	NONE	
2		2'-10" x 7'-0	BED	PRIVACY	NONE		5-5	FIFTH	(2)2'-0" x 7'-0	CLOSET	ACCORDION	NONE	
2-		(2)2'-0" x 7'-0		ACCORDION	NONE		5-6	FIFTH	(2)2'-0" x 7'-0		ACCORDION	NONE	
2-		(2)2'-0" x 7'-0		ACCORDION	NONE		5-7	FIFTH	2'-10" x 7'-0		DUMMY	NONE	
2-		2'-10" x 7'-0		PRIVACY	STONE		5-8	FIFTH	2'-10" x 7'-0		PRIVACY	STONE	
2-		3'-0" x 7'-0	STAIR	PASSAGE	WEATHER	1 1/2 HR FPSC DOOR	5-9	FIFTH		APT 10 ENTR		METAL	1 1/2 HR FPSC DOOR
2-	23 SECOND	3'-0" x 7'-0	APT 4 ENTRY	EXTERIOR	METAL	1 1/2 HR FPSC DOOR	5-10	EIFTH	(2)2'-6" x 7'-0		DUMMY	NONE	
2-	24 SECOND	2-10" x 7'-0	TRASH	PASSAGE	WEATHER	1 1/2 HR FPSC DOOR	5-11	FIFTH	2'-10" x 7'-0		PRIVACY	STONE	
2-	25 SECOND	3'-0" x 7'-0		PASSAGE	WEATHER	1 1/2 HR FPSC DOOR	5-12	FIFTH	2'-10" x 7'-0	WASH/DRY	DUMMY	NONE	12X12 INCH VENT, UNDERCUT
. 3-	THIRD	(2)2'-0" x 7'-0		ACCORDION	NONE		5-13	FIFTH	2'-10" x 7'-0	WASH/DRY	DUMMY	NONE	12X12 INCH VENT, UNDERCUT
. 3-		(2)2'-0" x 7'-0		ACCORDION	NONE		5-14	FIFTH	(2)2'-6" x 7'-0		DUMMY	NONE	
3-		2'-10" x 7'-0		PRIVACY	STONE		5-15	FIFTH	2'-10" x 7'-0		PRIVACY	STONE	
- 3-		2'-10" x 7'-0		DUMMY	NONE		5-16	FIETH	2'-10" x 7'-0		PRIVACY	NONE	
3-		(2)2'-0" x 7'-0		ACCORDION	NONE		5-17	FIETH	2'-10" x 7'-0	BED	PRIVACY	NONE	
3-		2'-10" x 7'-0		PRIVACY	NONE		5-18	FIFTH	(2)2'-6" x 7'-0		DUMMY	NONE	
3-		(2)2'-6" x 7'-0		DUMMY	NONE		5-19	FIFTH	(2)2'-0" x 7'-0		ACCORDION	NONE	
3-		2'-10" x 7'-0		PRIVACY	NONE		5-20	FIFTH	(2)2'-0" x 7'-0		ACCORDION	NONE STONE	
3-		(2)2'-0" x 7'-		ACCORDION	NONE		5-21 5-22	FIFTH	2'-10" x 7'-0 3'-0" x 7'-0	BATH STAIR	PRIVACY PASSAGE	WEATHER	1 1/2 HR FPSC DOOR
3-		2'-10" x 7'-0		PRIVACY	STONE		5-22	FIFTH	3'-0" x 7'-0 3'-0" x 7'-0		PASSAGE		1 1/2 HR FPSC DOOR
7 ∟3-	10 THIRD	(2)2'-6" x 7'-0	CLOSET	DUMMY	NONE		5-23	FIFTH	1 3-0 X /-0	PIAIK	LENDONGE	YVENTOER	L JIETH LESCHOOL



2	FOR DOB APPROVAL	04.20.2017
1	FOR PRE-BID	03.30.2017
No:	Description:	Date:

Versatile Engineering P.C. 240-02 66TH AVE. DOUGLASTON, NY 11362-1925 Tel.(917) 873-0662 Fax.(718) 247-5943 E mail. versatile.pc@gmail.com

PROJECT:

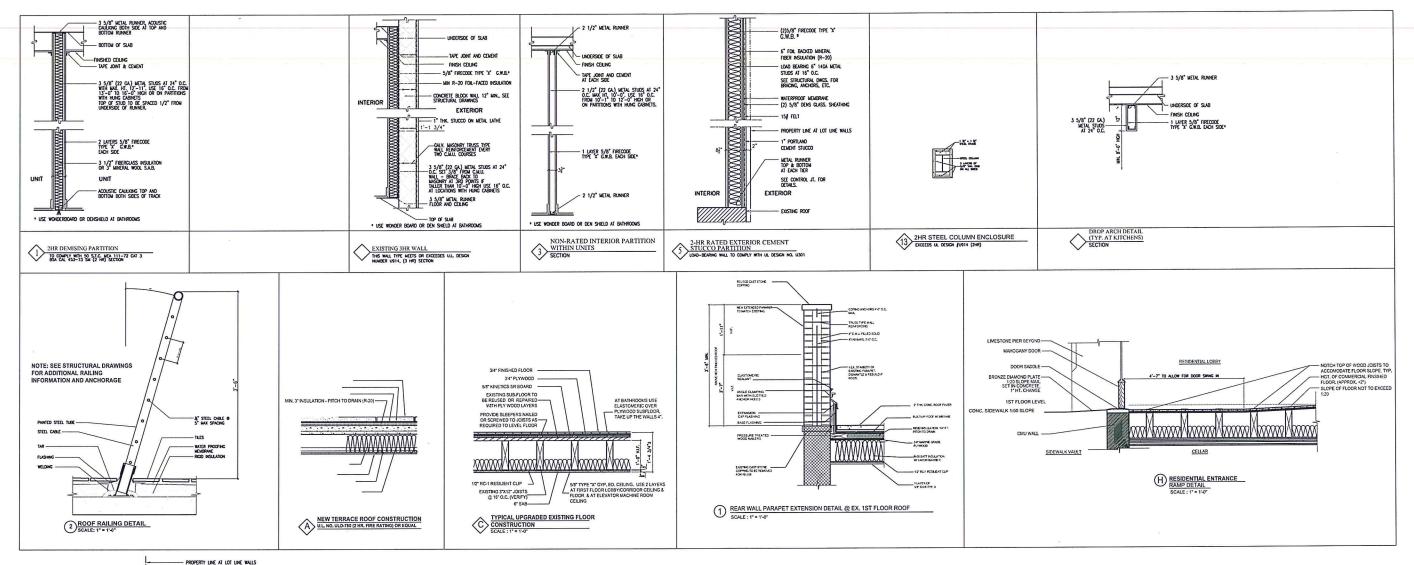
51-53 WHITE STREET NEW YORK, N.Y. 10013

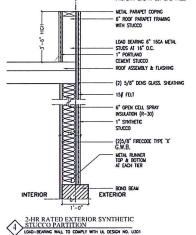
WINDOW SCHEDULE

_	SEAL &			
1	STATE	OF NE	W. Lop	\
6	H			*
T	X			S. S. S.
	O TO SEE	008 ANOIS	ENGI	/

	DATE:	05.09.2017
	PROJECT No:	05-2012
	DRAWING BY:	L.N.
1	СНК ВҮ:	R.S.
*	DWG No:	0 00

A-402.00
CAD FILE No: 5 OF 34





EXAMINED FOR ZONING EGRESS AND FIRE PREVENTION ONLY, AS PER DIR NO. 2 OF 1975

JUN 42017

KENNETH FLADEN R. 6

2	FOR DOB APPROVAL	04.20.2017
1	FOR PRE-BID	03.30.2017
No:	Description:	Date:

Versatile Engineering P.C. 240-02 66TH AVE. DOUGLASTON, NY 11362-1925 Tel.(917) 873-0662 Fax.(718) 247-5943 E mail. versatile.pc@gmail.com

PROJEC

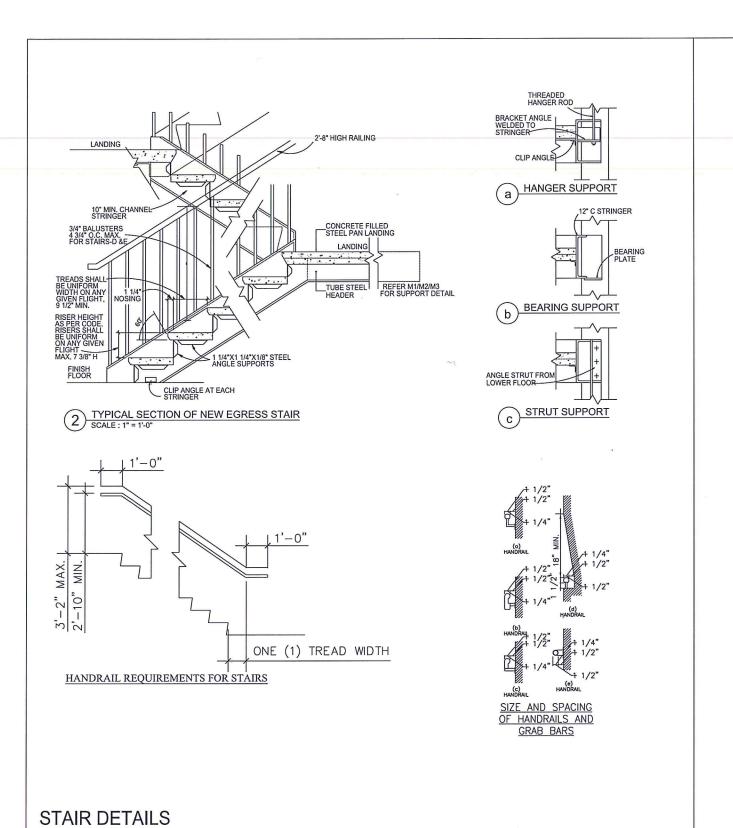
51-53 WHITE STREET NEW YORK, N.Y. 10013

WALL, ROOF AND FLOOR DETAILS

	SEAL & SIGNATURE	1
本種製	SATE OF NEW PARTIES OF THE PARTIES O	

	DATE:	05.09.2017
٦	PROJECT No:	05-2012
	DRAWING BY:	L.N.
	CHK BY:	R.S.
ì	DWG No:	0 00

A-403.00
CAD FILE No: 20 OF 34



EXAMINED FOR ZONING ECRESS AND FIRE PREVENTION ONLY, AS PER DIR NO. 2 OF 1975

JUN 10 201

KENNETH FLADEN, R. C.

2	FOR DOB APPROVAL	04.20.2017
1	FOR PRE-BID	03.30.2017
No:	Description:	Date:

Versatile Engineering P.C. 240-02 66TH AVE. DOUGLASTON, NY 11362-1925 Tel.(917) 873-0662 Fax.(718) 247-5943 E mail. versatile.pc@gmail.com

PROJECT:

51-53 WHITE STREET NEW YORK, N.Y. 10013

STAIR DETAILS



Ī	DATE:	05.09.2017
	PROJECT No:	05-2012
	DRAWING BY:	L.N.
	СНК ВҮ:	R.S.
	DWG No:	4 00

A-404.00

CAD FILE No: 21 OF 34

GENERAL NOTES

- 1. ALL WORK TO COMPLY WITH NEW YORK CITY BUILDING CODE LATEST EDITION.
- The contractor shall field verify all dimensions and conditions at the stie as required to verify the drawings and to perform this work properly, any discrepancy between the drawings, and the survey shall be brought to the attention of the owner's representative.
- Details not shown or specified but necessary for proper and acceptable construction and installation of any part of the work as determined by the owner representative shall be included in the work the same as if herein specified or indicated.
- 4. THE INTENT OF THE STRUCTURAL DRAWINGS IS TO SHOW THE MAIN STRUCTURAL FEATURES AND DESIGN FOR THE COMPLETED PROJECT, FOR ARCHITECTURAL DETAILS AND OTHER COMPONENTS THAT MAY BE NECESSARY TO CONSTRUCT THE PROJECT SEE ARCHITECTURAL AND CONSULTANTS DRAWINGS.
- REFER TO ARCHITECTURAL, HVAC, MECHANICAL AND ELECTRICAL DRAWINGS FOR VERIFICATION OF LOCATIONS AND DIMENSIONS OF ALL CHASES. SLOTS. INSERTS, CURBS, OPENINGS, SLEEVES. ANCHOR BOLTS, FLOOR PICHES AND ALL OTHER PROJECT REQUIREMENTS NOT SHOWN ON STRUCTURAL DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL STRUCTURES AGAINST DAMAGE DURING CONSTRUCTION.
- SECTIONS AND DETAILS SHOWN SHALL BE CONSIDERED TO BE TYPICAL FOR ALL SIMILAR CONDITIONS.
- 7. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING THE COMPLETE LAYOUT AND DETAILS OF ALL STRUCTURAL WORK TO BE PERFORMED, THE CONTRACTOR MAY NOT PERFORM WORK UNTIL THE SHOP DRAWINGS HAVE BEEN ADDRAWED.

EXCAVATION NOTES:

- 2. THE PERIMETER OF THE GENERAL EXCAVATION SHALL BE RETAINED BY A SOIL RETENTION SYSTEM (WHERE APPLICABLE). THE INSTALLATION, MAINTENANCE AND REMOVAL (WHERE REQUIRED) SHALL BE THE COMPLETE AND SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE ALL MEASURES AND PRECAUTIONS NECESSARY TO PREVENT DAMAGE AND MINIMIZE SETTLEMENT OF EXISTING OR NEW CONSTRUCTION INSIDE AND OUTSIDE THE PROJECT LIMITS. ANY DAMAGE TO NEW OR DESITING CONSTRUCTION INSIDE OR OUTSIDE OF THE PROJECT LIMITS, CAUSED BY CONSTRUCTION INSIDE OR OUTSIDE OF THE OF THE DESIGN OF THE SOIL RETENTION SYSTEM. IS THE RESPONSIBILITY OF THE CONTRACTOR. THE DESIGN OF THE SOIL RETENTION SYSTEM WILL BE PROVIDED BY THE OWNER. THE CONTRACTOR MILL ASSIST THE OWNER IN THE APPROVAL PROCESS FOR THE RETENTION SYSTEM IF SO REQUIRED. THE CONTRACTOR SHALL PROVIDE ALL CONTROLLED INSPECTIONS REQUIRED BY THE STATE BUILDING CODE RELATING TO THE RETENTION SYSTEM.
- 2. THE CONTRACTOR SHALL COORDINATE ALL EIEMENTS OF THE SOIL RETENTION SYSTEM WITH ALL ELEMENTS OF THE PERMANENT BUILDING.
- 3. PRIOR TO ANY EXCAVATION OR INSTALLATION OF ELEMENTS OF THE SOIL RETEXTION STITEM, THE CONTRACTOR SHALL ESTABLISH SURVEY POINTS ADOIND THE PERMIETER OF THE AREA TO BE EXCAVATED AND OTHER POINTS UP TO 200 FEET BEYOND THE PERMIETER. THESE POINTS SHALL BE SURVEYED FOR VERTICAL, AND HORZONTAL MOVEMENT AT PREQUEST INTERVALS DURING ACTUAL.
- 4. ALL EXCAVATION SHALL BE BASED ON ENGINEERED DRAWINGS PREPARED BY THE CONTRACTOR INCLUDING PLANS AND SECTIONS OF EXCAVATION SEQUENCES. THE EXCAVATION SEQUENCES SHALL BE CONTROLLED TO MATCH THE REQUIREMENTS OF THE DESIGN OF THE SOIL RETENTION SYSTEM AND TO PERMIT MONITORING OF WALL AND GROUND MOVEMENTS.
- THE GENERAL EXCAVATION ACROSS THE SITE SHALL NOT EXTEND DEEPER THAN THE SUAB-ON-GRADE SUBGRADE ELEVATION. THE EXCAVATIONS FOR FOOTINGS, GRADE EEAMS, PILE CAPS, MATS, PITS, SLASS, ETC. SHALL BE EXCAVATED ON AN INDMODUL, LOCALIZED BASIS DOWN FROM THE SLAB-ON-GRADE SUBGRADE LEYEL
- ALL EXCAVATION BELOW THE SLAB LEVEL REQUIRED FOR PITS SHALL BE RETAINED BY LOCALIZED SOIL RETENTION SYSTEMS AS MAY BE NECESSAR BASED ON A DESIGN USING APPROPRIATED EARTH AND HYDRAULIC PRESSURES AND OTHER CONSTRUCTION LOADINGS.
- 7. THE CONTRACTOR SHALL PROVIDE POSITIVE PROTECTION (MAT/SHEET COVERINGS) FOR ALL EXCAVATION SLOPES TO PROTECT SLOPES FROM INSTABILITY ANDDETERIORATION DUE TO RAIN, WND OR SNOW/ICE.
- 8. THE CONTRACTOR SHALL PROMDE SURFACE DRAINAGE CHANNELS AND SUMPS AND SUMP POMPS TO PROTECT ALL EXCAVATIONS FROM FLOODING, FLOODING OF ANY EXCAVATION AFTER APPROVAL OF THE SUBGRADE WILL BE CAUSE FOR COMPLETE REPREPARTION AND APPROVAL OF THE SUBGRADE.
- PROVIDE A DRAINAGE PANEL AGAINST THE OUTSIDE FACE OF THE FOUNDATION WALL AT LOCATIONS INDICATED ON THE ARCHITECTURAL DRAWINGS.
- 10. THE OWNER'S SOIL TESTING LABORATORY SHALL REVIEW AND MONITOR THE EXCAVATION, DEWATERING AND SOIL RETENTION SYSTEMS. THE CONTRACTOR SHALL PROVIDE, INSTALL AND SURVEY: (A) VERTICAL AND HORIZONTIAL MOVEMENTS OF THE TOP OF THE SOIL RETENTION SYSTEM: AND (8) BENCH MARKS ADJACENT TO AND AWAY FROM THE SITE PERIMETER FOR VERTICAL AND HORIZONTAL MOVEMENTS.
- SEE PLUMBING AND ELECTRICAL DRAWINGS FOR UNDERFLOOR UTILITY AND GROUNDING REQUIREMENTS.

- ALL FOOTINGS SHALL BEAR ON ACCEPTABLE SOIL, WITH 2 TONS BEARING CAPACITY. THE BOTTON OF THE FOOTING ELEVATIONS AND SOIL BEARING CAPACITIES AS SHOW ON THE DRAWNGS ARE ESTIMATED FROM THE SOIL BEARING DATA, IRANL EXACT ELEVATIONS SHALL BE FIELD VERRIFED BY THE GEOTECHNICAL. CONSULTANT AND REVIEWED BY THE
- THE SOIL SUBGRADE FOR ALL FOOTINGS AND SLABS SHALL BE INSPECTED AND APPROVED BY THE OWNER'S TESTING LABORATORY IMMEDIATELY PRIOR TO PLACING FOUNDATION CONCRETE OR CONCRETE MUD SLABS.
- 3. DO NOT BACKFILL AGAINST BASEMENT WALLS UNTIL GROUND FLOOR AND LOWER LEVEL SLABS HAVE BEEN PLACED AND THE CONCRETE HAS ATTAINED FULL DESIGN STRENGTH.
- . NO FOOTINGS OR SLABS SHALL BE PLACED INTO OR ACAINST SUBGRADE CONTAINING FREE WATER, FROST OR ICE. SHOULD WATER OR FROST ENTER A PILE CAP OR FOOTING EXCAVATION AFTER SUBGRADE APPROVAL, THE SUBGRADE SHALL BE RE—INSPECTED AFTER REJOVAL OF WATER OR FROST.
- 5. THE CONTRACTOR (WHERE APPLICABLE) SHALL PROVIDE ALL NECESSARY MEASURES TO PREVENT ANY FROST OR ICE FROM PENETRATING ANY FOOTING, OR SLAB SUBGRADE BEFORE AND AFTER PLACING OF CONCRETE AND UNTIL SUCH SUBGRADES ARE FULLY PROTECTED BY THE PERMANENT ROING STRUCTURE.
- WHERE APPLICABLE, ALL 11-65 MATERIALS UNDER THE SLAB SHALL BE REMOVED, REPLACED WITH COMPACTED GRAWURAL MATERIAL AND TOPPED OFF WITH 6 INCHES OF CRUSHED STONE. THE GRAWURAL MATERIAL MAY BE SAND OR SAND/GRAVEL.
- 7. THE SOIL UNDER SLAB SHALL BE COMPACTED TO HIGH DENSITY EQUIVALENT TO A MINIMUM of 115% MAXIMUM DENSITY AT OPTIMUM MOISTURE DETERMINE BY THE SOIL COMPACTION TEST (ASTM D-698). THE MAXIMUM LIFT FOR THE COMPACTION WILL BE 12 INCHES.
- 8. SEE ARCHITECTURAL DRAWINGS FOR ALL WATERPROOFING AND DAMPROOFING DETAILS.
- 9. PROVIDE SLEEVES FOR UTILITY PENETRATIONS, COORDINATE WITH MECHANICAL TRADES

STRUCTURAL CONCRETE NOTES:

- ALL CAST—IN—PLACE CONCRETE SHALL BE AIR ENTRAINED, NORMAL WEIGHT STONE CONCRETE, A ND SHALL HAVE 4000PSI MINIMUM 28 DAY COMPRESSIVE STRENGTHS
- 2. ALL REINFORCING BARS SHALL BE NEW BILLET STEEL CONFORMING TO THE STANDARDS OF ASTM A615,GRADE 60.
- 3. ALL WELDED WIRE FABRIC SHALL CONFORM TO THE STANDARDS OF ASTM A185.
- 4. ALL CONCRETE REINFORCEMENT SHALL BE DETAILED, FABRICATED, LABELED, SUPPORTED AND SPACED IN FORM; AND SECURED IN PLACE IN ACCORDANCE WITH THE PROCEDURES AND REQUIREMENTS OF UNLINED IN THE LATEST EDITION OF THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE. ACI 318—99 AND THE "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES". ACI 315.
- CHECKED SHOP DRAWINGS SHOWING REINFORCING DETAILS, INCLUDING STEEL SIZES, SPACING AND PLACEMENT, SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW PRIOR TO FABRICATION.
- THE CONTRACTOR SHALL SUBMIT DETAILED DRAWIGS SHOWING THE LOCATIONS OF ALL CONSTRUCTION JOINTS. CURBS, SLAB DEPRESSIONS. SLEEVES, OPENINGS. ETC.
- 7. ALL REINFORCING SPLICES SHALL CONFORM TO THE REQUIREMENTS OF ACI 318. BUT IN NO CASE SHALL BE LESS THAN 40 DIAMETERS, UNLESS NOTED OTHERWISE.
- 8. ALL WELDED WIRE FABRIC SHALL BE LAPPED TWO (2) FULL MESH PANELS AND TIED SECURELY.
- WHERE REQUIRED, DOWELS SHALL MATCH SIZE AND NUMBER OF MAIN REINFORCING, UNLESS OTHERWISE NOTED.
- O. ALL WALLS AND STRUCTURAL SLABS SHALL BE REINFORCED WITH AT LEAST \$4 \oldsymbol{0}12 inches each way. Each face, unless noted otherwise. All SLABS-ON-GRADE SHALL BE REINFORCED WITH AT LEAST ONE (1) LAYER OF 4X4-W4.0XW4.0 W.W.M. UNLESS NOTED OTHERWISE
- Construction Joints in all continuous footings, walls, slabs and beams shall be not further apart than 60 feet in any direction.
- 12. ALL ADJOINING SURFACES NOT CAST MONOLITHICALLY SHALL BE ROUGHENED INCH AMPLITUDE FOR THE ENTIRE INTERSECTION SURFACE ACCORDING TO ACI RECOMMENDATIONS AND SHALL BE COATED WITH BONDING COMPOUND BEFORE PLACING COMPOSET
- NO CALCIUM CHLORIDE SHALL BE USED IN ANY CONCRETE WITHOUT THE ARCHITECT'S PRIOR REVIEW AND WRITTEN APPROVAL.
- 14. BAR SUPPORTS IN CONTACT WITH EXPOSED SURFACES SHALL BE PLASTIC
- PLACE SLABS—ON—GRADE IN ACCORDANCE WITH ACI 302 "GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION".
- CONCRETE AND REINFORCING MATERIALS TO CONFORM TO THE FOLLOWING STANDARDS;
- ANDAROS;
 a.) PORTLAND CEMENT AS PER ASTN C 150.
 b.) AIR ENTRAINING PORTLAND CEMENT AS PER ASTN C 175.
 c.) CONCRETE AGGREGATES AS PER ASTN C 33.
- d.) Water shall be clean and free of any injurious amounts of oils, acids, alkalis, salt, organic materials and deleterious substances.
- 17. SLUMP SHALL NOT EXCEED 5" PLUS OR MINUS 1" FOR STONE AGGREGATE
- 18. ALL REINFORCEMENT SHALL BE SECURELY HELD IN PLACE WHILE PLACING CONCRETE, FROURED ADDITIONAL BARS OR STIRRUPS SHALL BE PROVIDED BY THE CONTRACTOR TO FURNISH SUPPORT to ALL BARS.
- 19. ALL BEAMS AND SLABS SHALL BE CAST MONOLITHICALLY UNLESS OTHERWISE
- MINIMUM CONCRETE COVER FOR REINFORCEMENT SHALL BE 1" FOR SLABS,1" FOR WALLS.1" FOR BEAMS.
- 21. CONTRACTOR SHALL SUBMIT CONCRETE DESIGN MIXES TO ENGINEER FOR REVIEW AND APPROVAL
- 22. ALL CONCRETE SHALL BE CONTROLLED CONCRETE AND SHALL BE TESTED IN ACCORDANCE WITH NYC BUILDING CODE REQUIRMENTS.
- ALL REINFORCING BARS SHALL BE LAPPED AS INDICATED ON THE DRAWINGS, UNLESS OTHERWISE NOTED TERMINATE CONTINUOUS BARS AT-DISCONTINUOUS ENDS WITH STANDARD HOOKS.
- 24. ALL CONCRETE SHALL BE CURED FOR A MINIMUM OF 4 DAYS,CURING SHALL BE PERFORMED BY COMERING FRESHLY PLACED CONCRETE WITH PLASTIC SHEET AND MAINTAINING SHEET IN PLACE UNTIL CONCRETE IS CURED.
- 25. SEE ARCHITECTURAL DRAWINGS FOR TYPE AND LOCATION OF ALL FLOOR FINISHES, FLOOR DEPRESSIONS AND CURBS.
- 26. SEE ARCHITECTURAL DRAWINGS FOR ALL WATERPROOFING/DAMPROOFING DETAILS.
- 27. SEE ARCHITECTURAL, HVAC, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL WALL/SLAB OPENINGS.
- 28. SEE SPECIFICATION SECTION "CAST—IN—PLACE CONCRETE" FOR ADDITIONAL REQUIREMENTS. REINFORCING BAR NOTES:

- REINFORCING BARS TO BE DEFORMED AND CONFORM TO ASTM A-996 GRADE 60 WITH MINIMUM YIELD STRESS Fy=60,000 psi
- 2. ALL CONTINUOUS REINFORCING BARS TO BE LAPPED 36 BAR DIAMETERS AT SPLICES AND CORNERS UNLESS OTHERWISE INDICATED. LAP CONTINUOUS BOTTOM BARS AT SUPPORTS AND TOP BARS AT CENTER OF SPANS, SPLICES SPACED CLOSER THAN 12 BAR DIAMETERS TO EACH OTHER OR 6° FROM ANY OUTSIDE EDGE SHALL BE INCREASED TO 43 BAR DIAMETERS (2008).
- 3. PROVIDE CORNER BARS AT ALL WALL INTERSECTIONS.
- PROVIDE 1-#5 BAR x 3'-0' LONGER THAN OPENING FOR EACH 4" OF WALL THICKNESS, OVER ALL OPENINGS UNLESS OTHERWISE INDICATED.
- 5. ALL BARS SHALL BE HELD SECURELY IN PROPER POSITION WHILE PLACING CONCRETE. IF REQUIRED, ADDITIONAL BARS OR STIRRUPS SHALL BE PROMDED BY THE CONTRACTOR TO PROPERLY SUPPORT BARS.
- 6. MINIMUM CONCRETE PROTECTION FOR REINFORCEMENT SHALL BE AS FOLLOWS:
 a.) FOOTINGS AND OTHER MEMBERS PLACED DIRECTLY ON GROUND 3°
 b.) CONCRETE THAT AFTER REMOVAL OF FORMS IS IN CONTACT WITH THE GROUND
 OR EXPOSED TO MEATHER 2° FOR BARS LARGER THAN \$5, AND 1-1/2° FOR
- #5 BARS OR SMALLER.
 c.) SLABS AND WALLS NOT EXPOSED TO WEATHER OR GROUND 3/4'. d.) BEAMS AND GIRDERS NOT EXPOSED TO WEATHER OR GROUND 1- 1 /2". 7. CONTRACTOR IS TO VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
- CONTRACTOR SHALL INSTALL ALL PIPE SLEEVES, BOXED OPENINGS, ANCHOR BOLTS, BEARING PLATES, ETC. AS REQUIRED FOR VARIOUS TRADES.
- 9. PROVIDE SHOP DRAWINGS PRIOR TO PLACEMENT OF CONCRETE
- THE ARCHITECT HAS NOT BEEN RETAINED TO PROVIDE FIELD SUPERVISION, NOR CONTROLLED INSPECTIONS AS PER N.Y. CITY BUILDING CODE.

MASONRY NOTES

- ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE APPLICABLE STANDARDS AND SPECIFICATIONS OF THE NATIONAL CONCRETE MASONRY ASSOCIATION
- A. HOLLOW LOAD BEARING CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C-90. 2. STRUCTURAL STEEL FOR TUBES SHALL BE ASTM ASOO-GRADE B.

 GRADE N, TYPE 1, WITH A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 2500 PSI ON 3, THE NET SECTION.

 ALL BOLTS, NUTS AND WASHERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A325 OR AASO. ALL BOLTS, NUTS AND WASHERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A325 OR AASO. ALL BOLTS, NUTS AND WASHERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A325.
 - B. BRICK MASONRY UNITS SHALL CONFORM TO ASTM C62/C652. AND HAVE A MINIMUM ULTIMATE COMPRESSVE STRENGTH OF 1500 PSI ON THE NET SECTION.
- C. MORTAR AND GROUT
- MORTAR FOR STRUCTURAL MASONRY SHALL BE TYPE S. CONFIRMING TO ASTM C270 (JOB-MIXED PROPORTION SPECIFICATIONS; NCMA TEK 20, AND BIA TECHNICAL NOTES 8, BA, AND 8B) AND SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 2500
- PSI.
 2 GROUT FOR STRUCTURAL MASONRY SHALL BE FINE OR COARSE AS REQUIRED.
 CONFORMING TO ASTM C476 AND SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE
 STRENGTH OF 2500 PSI.
 3. WHERE APPLICABLE, NON-SHRINK, NON-METALLIC. HIGH STRENGTH GROUT SHALL BE
 "FIVE STAR GROUT" BY U.S. GROUT OR EQUAL
- VERTICAL CELLS TO BE FILLED WITH CROUT SHALL BE ALICNED TO PROVIDE A CONTINUOUS. UNDESTRUCTED OPENING OF THE DIMENSIONS SHOWN ON THE PLANS. HOLLOW UNITS SHALL BE LAUD WITH FULL MORTAR COVERAGE ON HORIZONTAL AND VERTICAL FACE SHELLS EXCEPT THAT WEBS SHALL ALSO BE BEDDED WHERE THEY ARE
- adjacent to cells to be reinforced and/or filled with grout.

 All cutting and fitting of Masonry, including that required to accommodate
- 5. ALL CUTTING AND FITTING OF MASCHNITY, INCLUDING THAT REQUIRED TO ACCOMMODATE THE WORK OF OTHER TRUDES, SHALL BE DONE WITH MASCHNITY SAMS.

 6. REINFORCING BASS FOR REINFORCED MASCHNITY SHALL CONTROL TO ASTAIL A615—60.

 7. GROUT FOR FILLING REINFORCED OR MON-REINFORCED CELLS SHALL BE FLUID AND
- PLACED BY ACCEPTABLE PRESSURE GROUTING PROCEDURES.

 8. GROUT FOR FILLING REINFORCED OR NON-REINFORCED CELLS SHALL BE PLACED II MAXIMUM FOUR (4) FOOT LIFTS AND CONSOLIDATED IN PLACE BY VIBRATION OR OTHER METHODS WHICH INSURE COMPLETE FILLING OF THE CELLS. ALL CELLS CONTAINING
- REINFORGAING BARS AND/OR ANCHOR BOLTS SHALL BE FULLY GROUTED.

 9. POINTS OF BEARNS SHALL BE ON TWO (2) COURSES OF HOLLOW MASONRY GROUT SOUD. CHASES SHALL BE BUILT INTO WALLS, NOT CUT IN. CHASES SHALL BE PLUMB AS THE PLUMB AND COURSES OF THE COURSES OF THE PLUMB SOUD. AND SHALL BE A MINIMUM OF ONE (1) MASONRY UNIT LENGTH FROM JAMBS OF WALL OPENINGS. NO CHASES OTHER THAN THOSE SHOWN ON THE DRAWINGS SHALL BE PRIOR REVIEW OF THE ARCHITECT/ENGINEER.

- A. ALL WALLS AND PIERS SHALL HAVE HORIZONTAL JOINT REINFORCEMENTS AT 32" ON CENTER (U.O.N.) CONSISTING OF TWO (2) 9 GAGE RODS WITH 9 GAGE CROSS TIES AT 32" ON CENTER, (U.O.N.) ASTM A116, CLASS 3 (TWO (2) RODS IN C.M.U. AND ONE (1) ROD IN FACE BRICK). REINFORCEMENT SHALL LAP AT CORNERS AND
- B. THE MINIMUM CLEAR DISTANCE BETWEEN PARALLEL BARS EXCEPT IN COLUMNS SHALL BE EQUAL TO THE NOMINAL DIAMETER OF THE BAR.
- C. VERTICAL REINFORCEMENT SHALL BE LAP SPUCED A MINIMUM OF 40 BAR DIAMETER (1'-6 MINIMUM) WHERE REQUIRED.
- D. ALL BARS SHALL BE COMPLETLY EMBEDDED IN MORTAR OR GROUT, ALL BARS SHALL HAVE A COVERAGE OF MASONRY NOT LESS THAN:

 BARS LARGER THAN \$ 2*

 \$5 BARS OR SMALLER 1-1/2*
- E. VERTICAL REINFORCEMENT OF AT LEAST TWO \$5 BARS SHALL BE PROMDED CONTINUOUSLY FROM SUPPORT TO SUPPORT AT EACH CORNER, AT EACH SIDE OF EACH 16. THERE SHALL BE NO FIELD CUTTING OF STRUCTURAL STEEL MEMBERS FOR THE WORK OF OPENING AND AT THE ENDS OF WALLS.
- F. HORIZONTAL REINFORCEMENT NOT LESS THAN ONE #4 BAR SHALL BE
- PROMDED:

 1. AT THE BOTTON AND TOP OF WALL OPENINGS AND SHALL EXTEND NOT LESS THAN 24 IN. NOR LESS THAN 40 BAR DIAMETERS PAST THE OPENING.

 2. CONTINUOUSLY AT STRUCTURALLY CONNECTED ROOF AND FLOOR LEVELS AND AT THE TOP OF WALL.

 3. AT THE BOTTON OF THE WALL OF STEEL CONSTRUCTION.

 4. AT HAZADIUS SPACING OF 10 FT, UNLESS UNIFORMLY DISTRIBUTED JOINT REINFORCEMENT IS PROVIDED. REINFORCEMENT AT THE TOP AND BOTTOM OF OPENINGS WHEN USED IN DETERMINING THIS MAXIMUM SPACING SHALL BE CONTINUOUS IN THE WALL.

 4. AT MAXIMUM SPACING OF 10 FT, UNLESS UNIFORMLY DISTRIBUTED JOINT REINFORCEMENT IS PROVIDED. REINFORCEMENT AT THE TOP AND BOTTOM OF OPENINGS WHEN USED IN DETERMINING THIS MAXIMUM SPACING SHALL BE CONTINUOUS IN THE WALL.

 4. AT MAXIMUM SPACING OF 10 FT, UNLESS UNIFORMLY DISTRIBUTED JOINT REINFORCEMENT IS PROVIDED. REINFORCEMENT AT THE TOP AND BOTTOM OF OPENINGS WHEN USED IN DETERMINING THIS MAXIMUM SPACING SHALL BE CONTINUOUS IN THE WALL.

 4. AT MAXIMUM SPACING OF 10 FT, UNLESS UNIFORMLY DISTRIBUTED JOINT REINFORCEMENT IS PROVIDED. REINFORCEMENT AT THE TOP AND BOTTOM OF OPENINGS WHEN USED IN DETERMINING THIS MAXIMUM SPACING SHALL BE CONTINUOUS IN THE WALL.
- PROVIDE ADEQUATE. TEMPORARY BRACING AS REQUIRED DURING CONSTRUCTION TO WITHSTAND LATERAL LOADS AND THE PRESSURES OF FLUID GROUT.
- 12. CONCRETE MASONRY SHALL BE PROTECTED FROM ABSORBING MOISTURE AND WATER WHILE AT THE PLANT, DURING SHIPMENT AND AT THE SITE DURING CONSTRUCTION.
- 13. ANCHORS, WALL PLUCS, ACCESSORIES AND OTHER ITEMS TO BE BUILT IN SHALL BE INSTALLED AS THE MASONRY WORK PROCRESSES. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL DETAILS.
- 14. MASONRY WALLS SHALL BE ANCHORED TO THE FLOOR SLAB OR CURB WITH \$5 DOWELS AT 24 INCHES ON CENTER. THESE BARS SHALL BE HOOKED AND EMBEDDED INTO THE CONCRETE AND EXTEND AT LEAST 1'-6" INTO THE MASONRY AND GROUTED SOLD, UNLESS OTHERWISE SHOWN.
- POINTS OF BEARING SHALL BE ON A MINIMUM OF TWO (2) COURSES OF HOLLOW MASONRY GROUTED SOLID.
- WALLS WHICH TERMINATE BELOW FLOOR DECKS SHALL BE ANCHORED LATERA L4x4x1/4 ANGLES SPACED AT 4 FEET ON CENTER EACH SIDE OF THE WALL.
- 17. PROVIDE LOOSE LINTELS FOR OPENINGS IN BRICK FACADE AS FOLLOWS: 0'-0'' < OPENINGS < 4'-0'' L4x3.5x5/16' MATERIALS: 4'-0'' < OPENINGS < 7'-0'' L6x3.5x5/16

MATERIALS:

UNLESS OTHERWISE SHOWN OR NOTED ON DRAWINGS: 1. STRUCTURAL STEEL: ALL ROLLED SHAPES: ALL PLATES AND CONNECTION MATERIAL: ALL TUBBULAR SECTIONS: ALL TUBBULAR SECTIONS: ASTM A572 ASTM A36 ASTM A500, GRADE B ASTM A53, GRADE B ASTM F1554

- ANCHOR BOLTS, U.O.N. METAL DECK:
 FABRICATE FROM ASTM A611 OR ASTM A653 STEEL WITH ASTM A653 G60
 GALVANIZING. SIZE AND GAGE AS NOTED ON DRAWNICS. U.O.N., FLOOR DECKING
 SHALL BE COMPOSITE DECK WITH CONFIGURATION THAT PERMITS FULL AISC SHEAR
 CONNECTOR VALUE.
 SHEAR CONNECTOR:
- 3/4" DIAMETER X 3" HEADED STUDS, U.O.N.
 4. CAST-IN-PLACE CONCRETE:
- 4 KSI NORMAL WT. 4 KSI NORMAL WT. SLABS ON METAL DECK: 5. REINFORCEMENT:
 DEFORMED BARS:
 WELDED WIRE FABRIC
 WELDED DEFORMED

 6. WELDING ELECTRODES: ASTM A615, GRADE 60. ASTM A185. ASTM A467, GRADE 60. E70XX LOW HYDROGEN.
- 7. BOLTING MATERIALS: U.O.N. 8. LIGHT GAGE FRAMING:

ASTM A653; GRADE 50 FOR 18 GAGE AND HEAVIER, GRADE 40 FOR 18 GAGE AND LIGHTER; WITH G60

ASTM A325/F1852 OR A490/F2280,

- ALL COLUMNS, BEANS, GROERS ,SHALL CONFORM TO THE ASTM STANDARD A-572, GRADE 50, WITH A MINIMUM YIELD STRENGTH OF 50KSI, UNLESS OTHERWISE SPECIFIED ON THE

- ALL DETAILING, FABRICATION AND ERECTION SHALL CONFORM TO AISC "ALLOWABLE STRESS DESIGN SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS" AND AISC "CODE OF STANDARD PRACTICE" . LATEST FOITIONS.
- 5. ALL WELDING SHALL BE DONE BY QUALIFIED WELDERS AND SHALL CONFORM TO THE AWS
 "CODE FOR ARC AND CAS WELDING IN BUILDING CONSTRUCTION", LATEST EDITION. ALL
 "WELDING ELECTRODES SHALL CONFORM TO AWS. 8.5.1 GRADE E-7.0 BARE ELECTRODES AND
 GRANULAR FLUX SHALL CONFORM TO AWS. 85.17,F70 AWS. FLUX CLASSIFICATION.
- THE FABRICATOR/ERECTOR SHALL SUBMIT TO THE ARCHITECT. FOR REVIEW, ENGINEERED AND CHECKED DRAWINGS SHOWING SHOP FABRICATION DETAILS, FIELD ASSEMBLY DETAILS AND ERECTION DAGRAMS FOR ALL STRUCTURAL STEEL.
- UNLESS SPECIFICALLY SHOWN ON THE DRAWINGS, ALL CONNECTIONS SHALL BE DESIGNED AND DETAILED BY THE FABRICATOR. CALCULATIONS SHALL BEAR THE SEAL AND SIGNATURE OF A NEW YORK STATE REGISTEED PROFESSIONAL ENGINEER. DETAILING SHALL BE PERFORMED USING RATIONAL ENGINEERING DESIGN AND STANDARD PRACTICE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE GENERAL DETAILS SHOWN ON THE DRAWINGS ARE CONCEPTUAL ONLY AND DO NOT INDICATE THE REDUIRED NUMBER OF BOLTS OR WELD CETTER LIMITESS SECRETICALLY WITH THE CONTRACT DOCUMENT OF BOLTS OR WELD SIZES, UNLESS SPECIFICALLY NOTED.
- 8. THE MINIMUM NUMBER OF BOLTS PER CONNECTION SHALL BE TWO (2).
- MINIMUM FILLET WELDS SHALL COMPLY WITH THE AISC. BUT SHALL NOT BE LESS THAN 1/4 INCH, UNLESS NOTED OTHERWISE.
- SIMPLE SHEAR CONNECTIONS SHALL BE CAPABLE OF END ROTATION AS PER THE REQUIREMENTS OF THE AISC CODE FOR UNRESTRAINED MEMBERS.
- GROUTED 11. SHOP AND FIELD TESTING OF WELDS AND BOLTS SHALL BE AS FOLLOWS:
 PLUMB
 OF WALL
 SHALL BE VISUALLY INSPECTED. FIFTEEN (15) PERCENT AT RANDOM
 OF WALL
 - B. FILLET WELDS FOR BEAM AND GIRDER SHEAR CONNECTION PLATES (30 PERCENT AT RANDOM) SHALL BE CHECKED BY MAGNETIC PARTICLE FOR FINAL PASS ONLY.
 - C. ULTRASONICALLY TEST 100 PERCENT OF ALL FULL PENETRATION WELDS.
 - D. THE OWNER'S TESTING AGENCY SHALL PERFORM ALL SHOP AND FIELD INSPECTION AND TESTING AS OUTLINED ABOVE.
 - E. THE STRUCTURAL STEEL FABRICATOR AND ERECTOR SHALL SCHEDULE ALL WORK TO ALLOW THE ABOVE TESTING REQUIREMENTS TO BE COMPLETED.

 - AFTER FABRICATION, ALL STEEL SHALL BE CLEANED OF ALL RUST, LOOSE MILL SCALE AND OTHER FOREIGN MATERIALS.
 - ALL EXTERIOR ELEMENT AND LOOSE LINTELS TO BE PAINTED. EXTERIOR ELEMENTS AR ANY ELEMENTS WHICH FALL OUTSIDE THE BUILDING INSULATION. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
 - PRIOR TO APPLICATION OF SPRAYED—ON FIREPROOFING, THE CONTRACTOR SHALL REMOVE, IN THE FIELD, ALL LOOSE MILL SCALE OR RUST.

 - All Beam to girder & Beam to Beam connections shall be Bolted, using 3/4" dia <u>A325 Bearing Bolts</u>. In Standard Holes, or sup citicalbolts in oversized or SLOTED HOLES, U.O.N.
 - ALL BEAM TO BEAM & BEAM TO GIRDER CONNECTIONS SHALL BE OF TWO SIDED WEB ANGLE CONNECTIONS, PER ASIC SPECIFICATIONS, LATEST EDITION.
 - 22. CUTS, HOLES, COPES, ETC REQUIRED FOR WORK SHALL BE SHOWN ON SHOP DRAWINGS AND MADE IN THE SHOP. CUTS OR BURNING OF HOLES IN STRUCTURAL STEEL MEMBERS IN THE FIELD MILL NOT BE PERMITTED.

 - 23. ALL ANCHOR BOLTS SHALL CONFORM TO ASTM A325 UNLESS OTHERWISE NOTED. ALL CUP ANGLES, BASE PLATES, GUSSET PLATES, COLUMN REINFORCING PLATES, AND COLUMN CAP PLATES SHALL CONFORM TO ASTM STANDARD A36 UNLESS OTHERWISE NOTED.
 - ALL FIELD SPLICES AND CONNECTIONS SHALL BE WELDED OR BOLTED USING HIGH STRENGHT BOLTS.
 - 26. SPLICES SHALL BE DESIGNED TO DEVELOP THE FULL CAPACITY OFTHE MEMBER AT THE POINT OF SPLICE ONLESS OTHERWISE NOTED.MEMBERS SHALL NOT BE SPLICED AT THE POINTS OF MAXIMUM STRESS.
 - 27. PROVIDE TEMPORARY BRACING OR GUYS TO PROVIDE LATERAL SUPPORT UNTIL PERMANENT NEW STRUCTURAL CONCRETE SLABS ARE INSTALLED AND FULLY CURED. 28. ALL WELDS NOT SPECIFICALLY CALLED OUT SHALL BE AT LEAST THE MINIMUM WELD SIZE AS SPECIFIED BY THE AISC MANUAL OF STEEL DESIGN LATEST EDITION.
 - WORK NOT INDICATED ON A PART OF THE DRAWINGS BUT REASONABLY IMPLIED TO BE SIMILAR TO THAT SHOWN AT CORRESPONDING LOCATIONS SHALL BE REPEATED.
 - ALL EXISTING STEEL SHALL BE CLEANED AS A.W.S LATEST EDITION IN PREPARATION FOR WELDING NEW STEEL TO EXISTING MEMBERS.
 - 31. ALL EXTERIOR EXPOSED STEEL MEMBERS SHALL BE HOT DIPPED GALAVANIZED (G90).

STRUCTURAL DESIGN CRITERIA

- 1. CODES AND STANDARDS:
- A. THE BUILDING CODE OF THE CITY OF NEW YORK B. BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI
- C. BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES(ACI 530-99), AND SPECIFICATIONS FOR MASONRY STRUCTURES (ACI 530.1-99)
 D. SPECIFICATIONS FOR THE DESIGN, FABRICATION AND EXECUTIONOF
 STRUCTURAL STEEL FOR BUILDINGS, AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), LATEST EDITION.
- 2. DESIGN LOADS:
 - LATERAL LOADS:

 0. WIND LOADS: PER NY STATE BUILDING CODE

 5. SESMIC LOADS: PER NY STATE BUILDING CODE

 5. SESMIC ZONE: C

 Z = 0.15

 1 = 1.0
 - STRUCTURAL PERIOD= 0.4 Sec

EXAMINED FOR ZONING EGRESS AND FIRE EXAMINED FOR ZONING EGRESS AND FIRE
PREVENTION ONLY, AS PER DIR NO. 2 OF 1975

JUN 1 2017 KENNETH FLADEN, R

LOAD SCHEDULE 60 LBS/SF LBS/SF SDL: LBS/SF LLRES: 20 LBS/SF 40 LBS/SF LLCORRIDOR: LBS/SF TOTAL: 120 LBS/SF LBS/SF

WIND LOAD = 20 LBS/SI

03.30.2017 Date: No: Description

Versatile Engineering P.C

Tel.(917) 873-0662 Fax.(718) 247-5943

47-30 244 STREET DOUGLASTON, NY 11362

E mail. versatile.pc@gmail.com 51 WHITE STREET

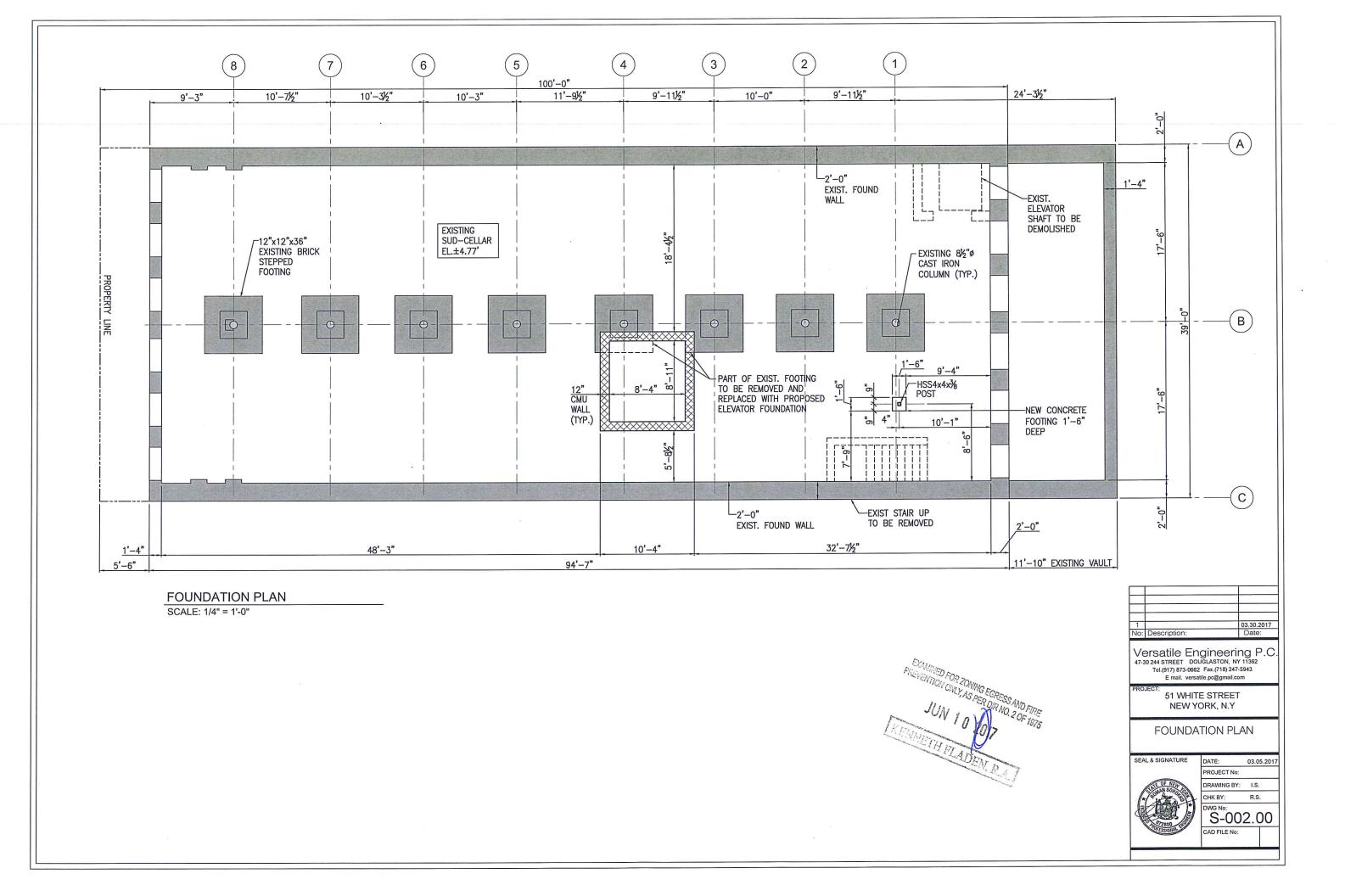
> NEW YORK, N.Y **GENERAL NOTES**

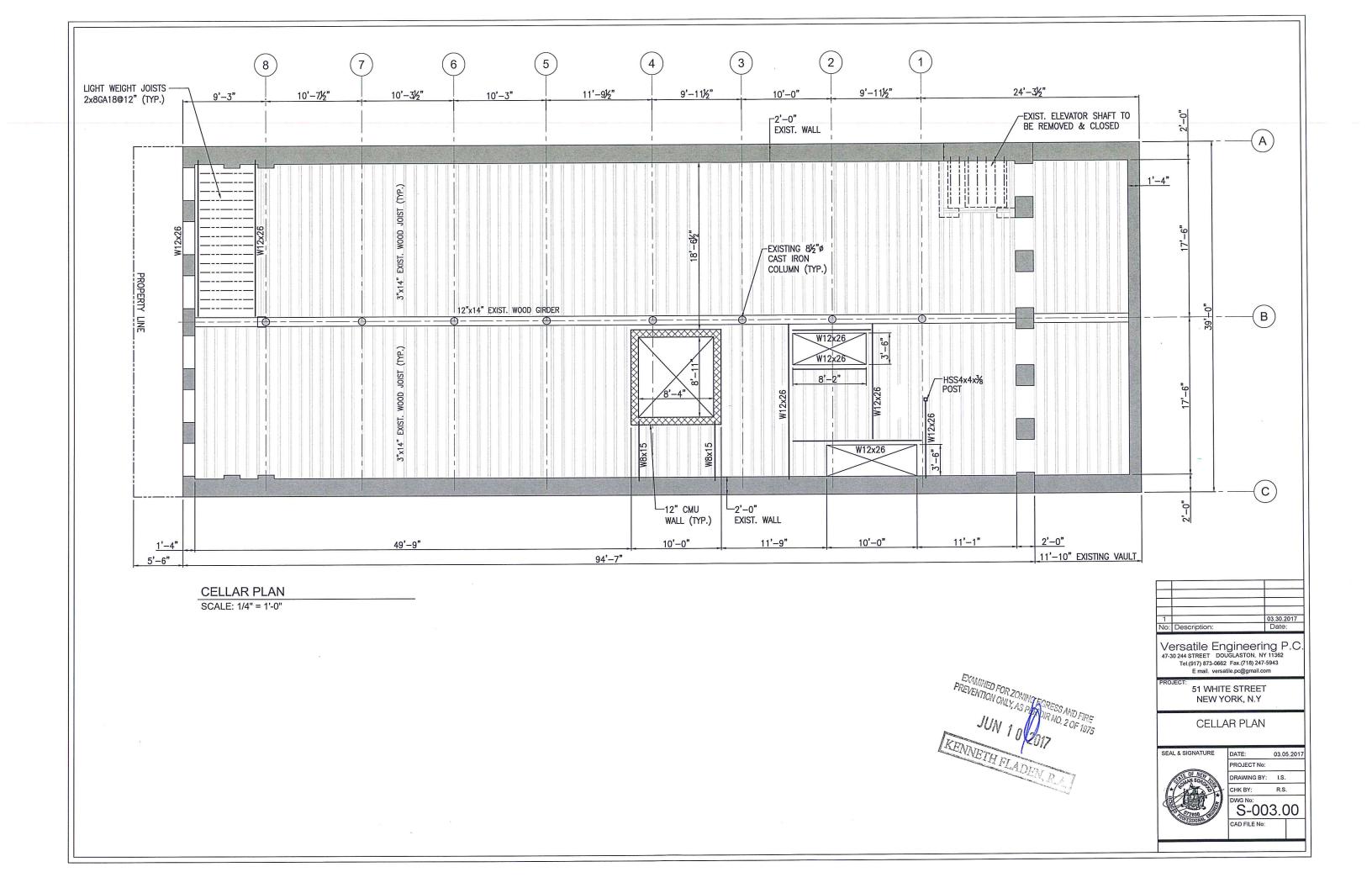
SEAL & SIGNATURE

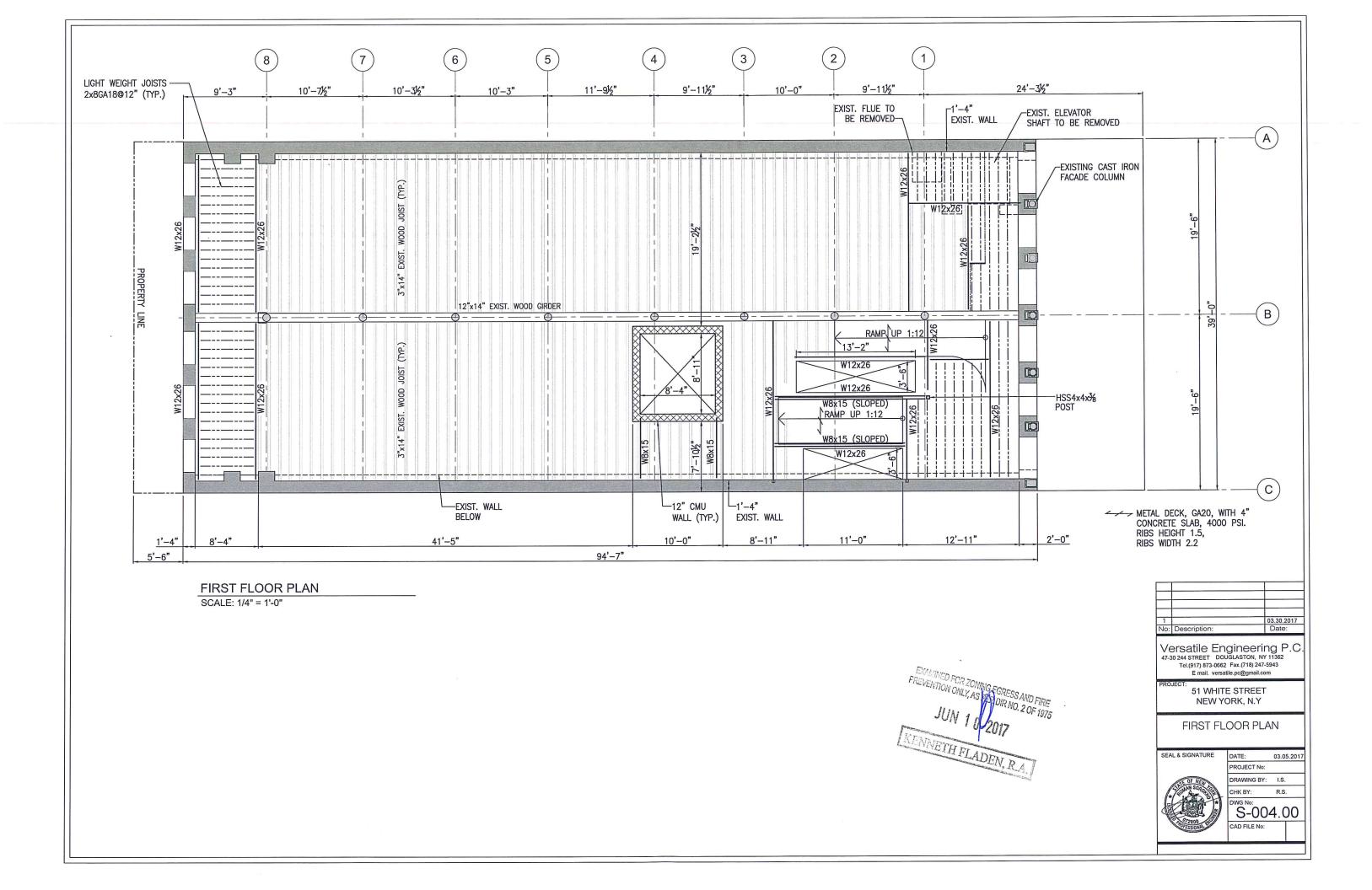


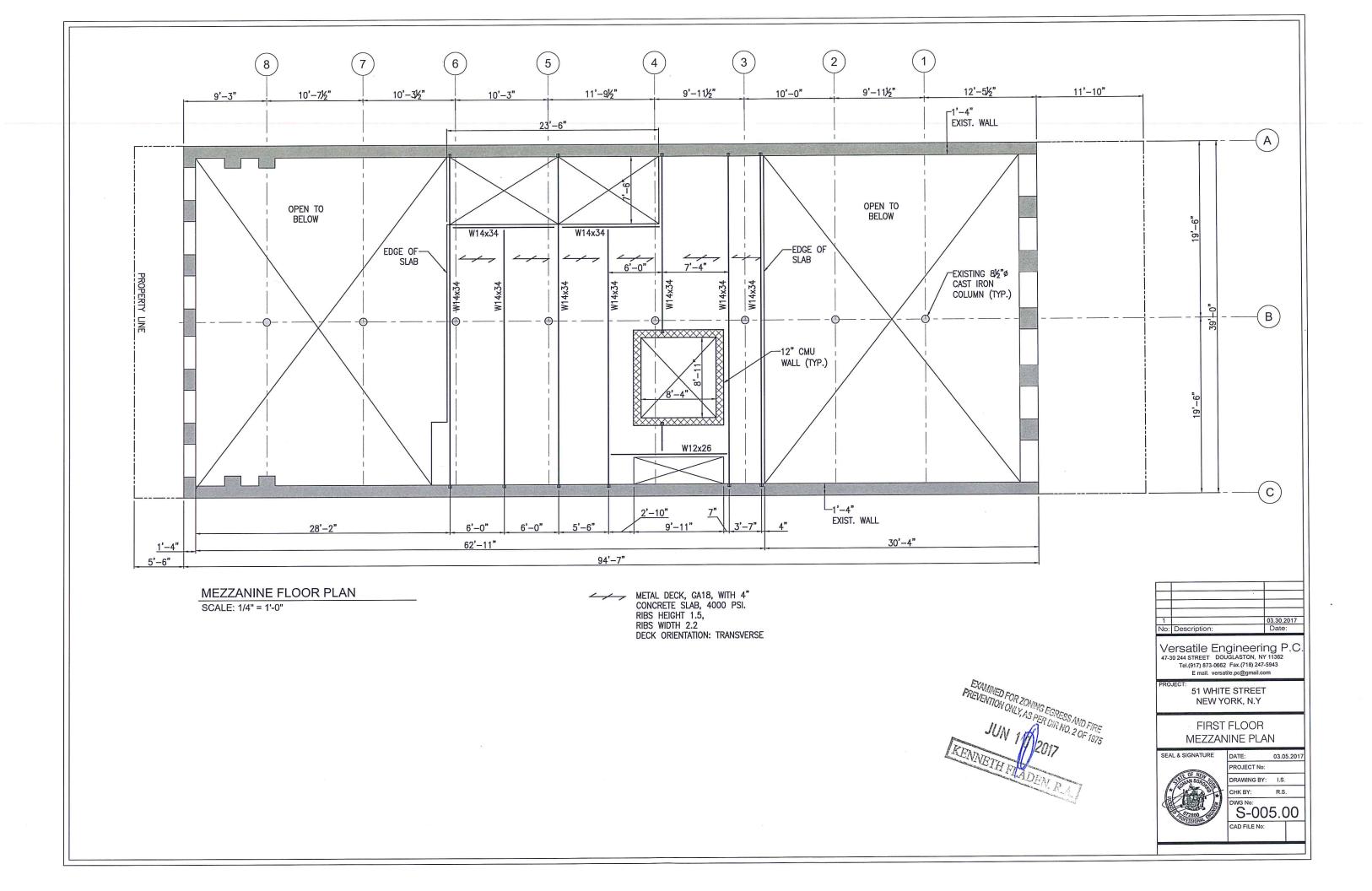
DATE: 03.05.2017 PROJECT No RAWING BY: I.S. CHK BY: R.S.

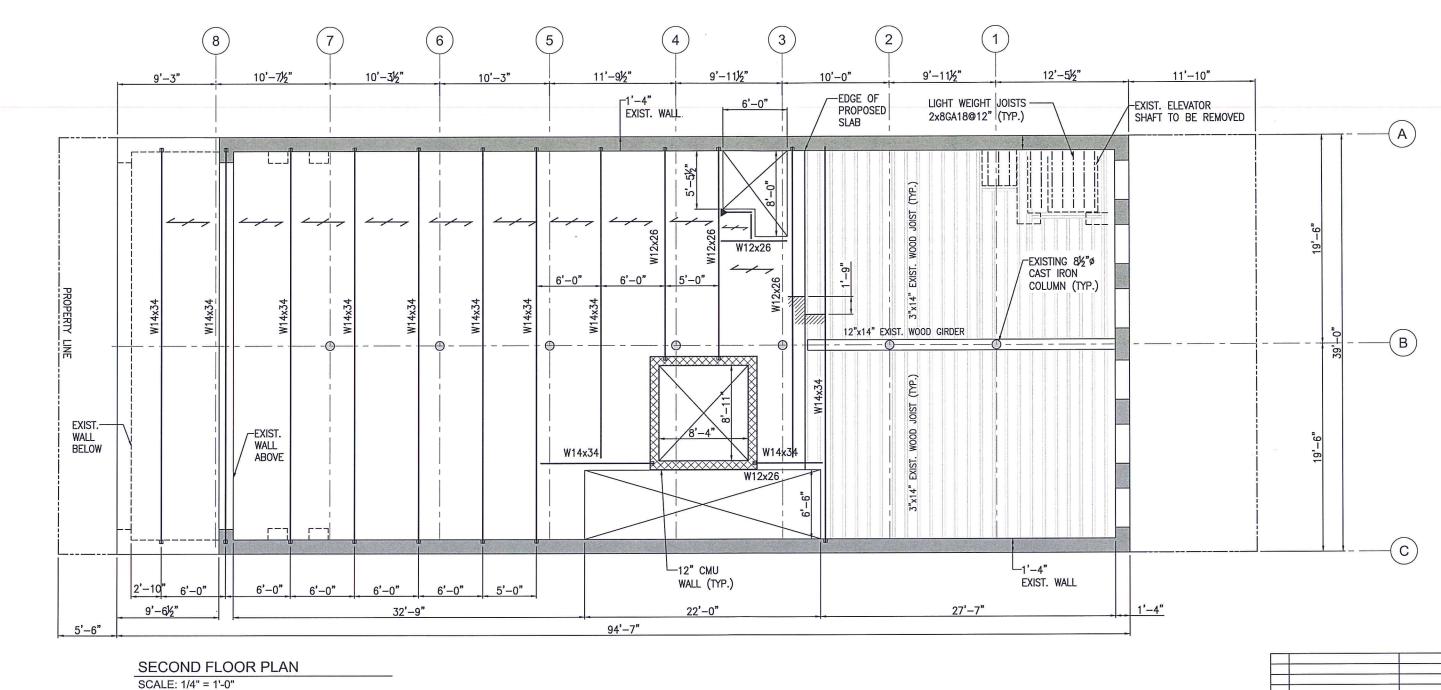
S-001.00 CAD FILE No













1		03.30.2017
No:	Description:	03.30.2017 Date:

Versatile Engineering P.C.
47-30 244 STREET DOUGLASTON, NY 11362
Tel.(917) 873-0662 Fax.(718) 247-5943
E mail. versatile.pc@gmail.com

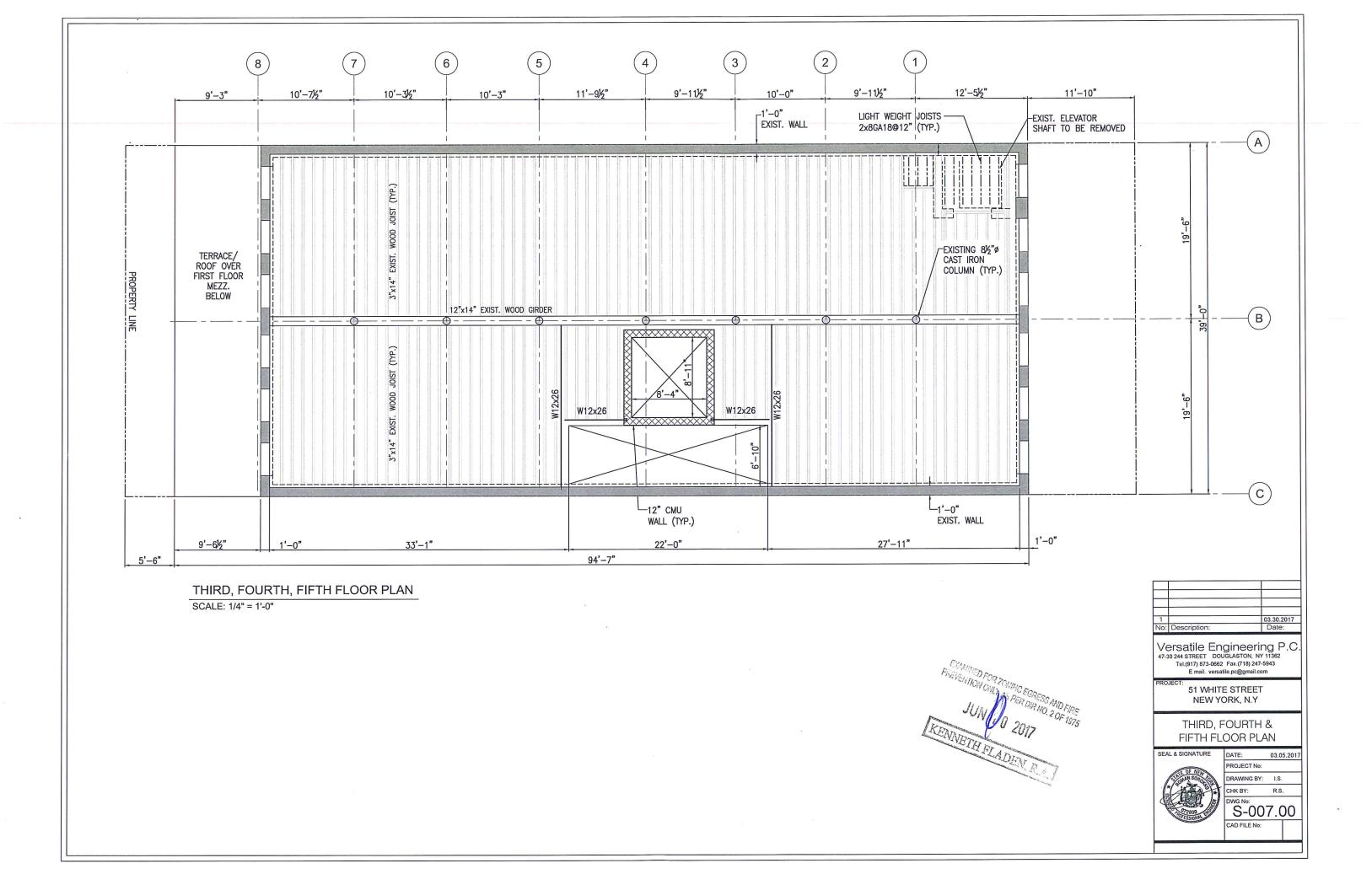
51 WHITE STREET NEW YORK, N.Y

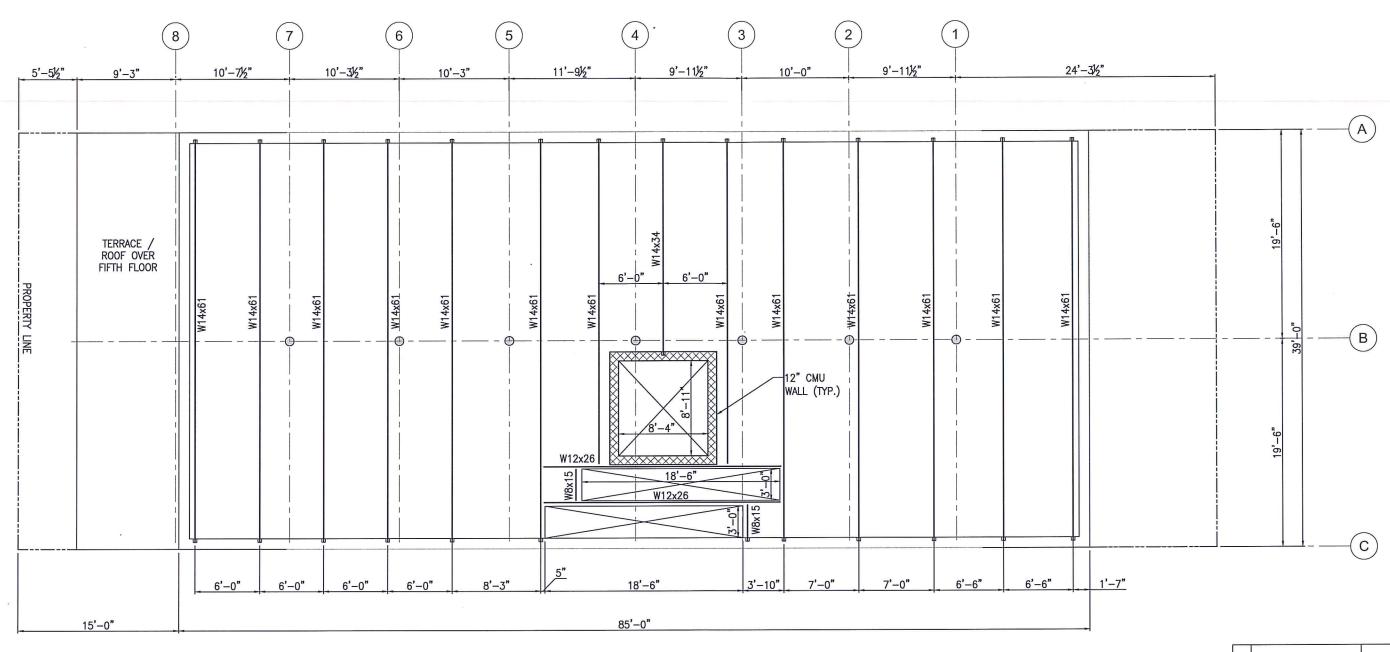
SECOND FLOOR **PLAN**

SEAL & SIGNATURE

DATE: 03.05.2017 PROJECT No:

DRAWING BY: I.S. СНК ВҮ: R.S. S-006.00





ROOF PLAN

SCALE: 1/4" = 1'-0"



1		03.30.2017 Date:
No:	Description:	Date:

Versatile Engineering P.C.
47-30 244 STREET DOUGLASTON, NY 11362
Tel.(917) 873-0662 Fax.(718) 247-5943
E mail. versatile.pc@gmail.com

51 WHITE STREET NEW YORK, N.Y

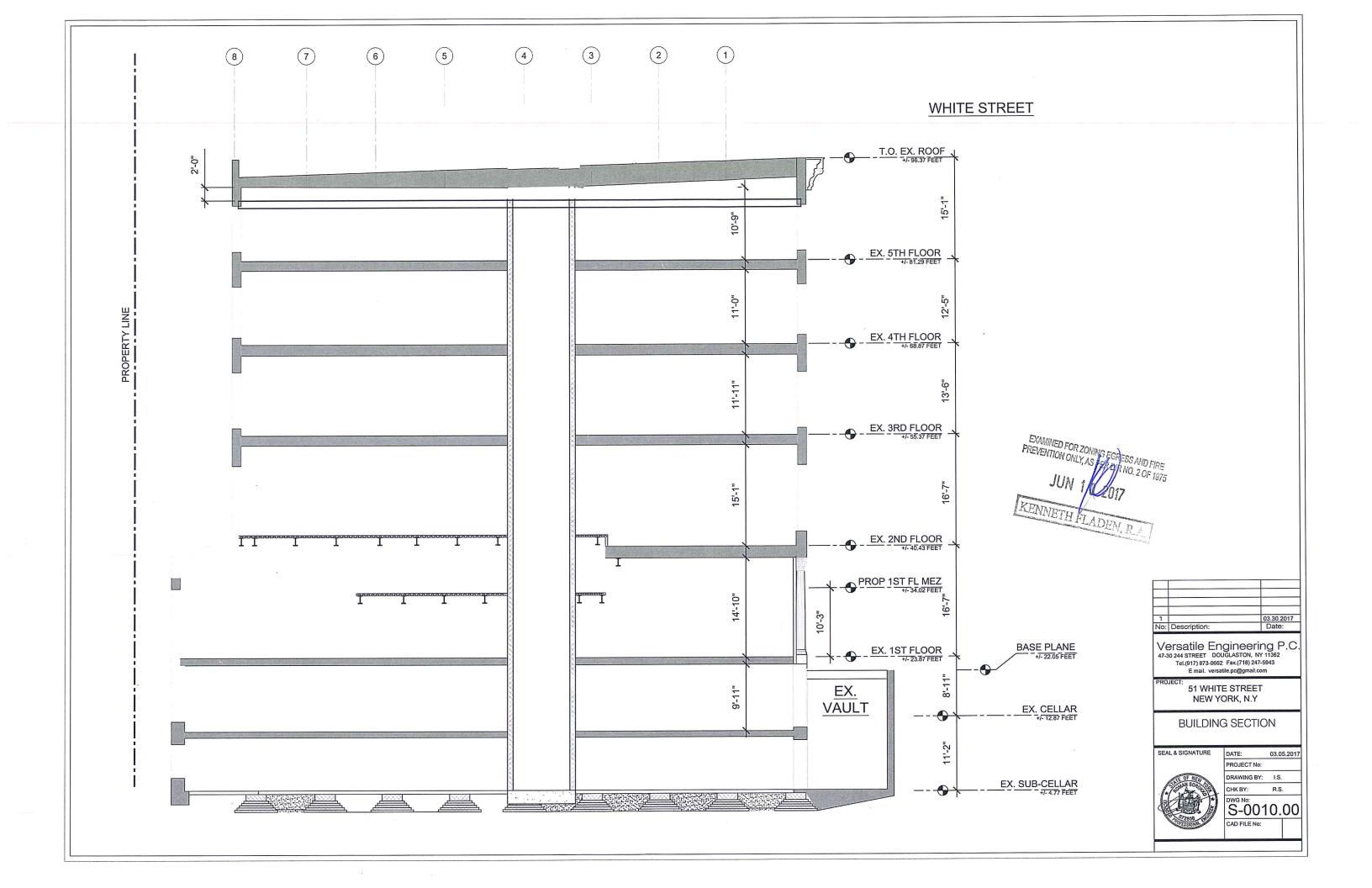
ROOF PLAN

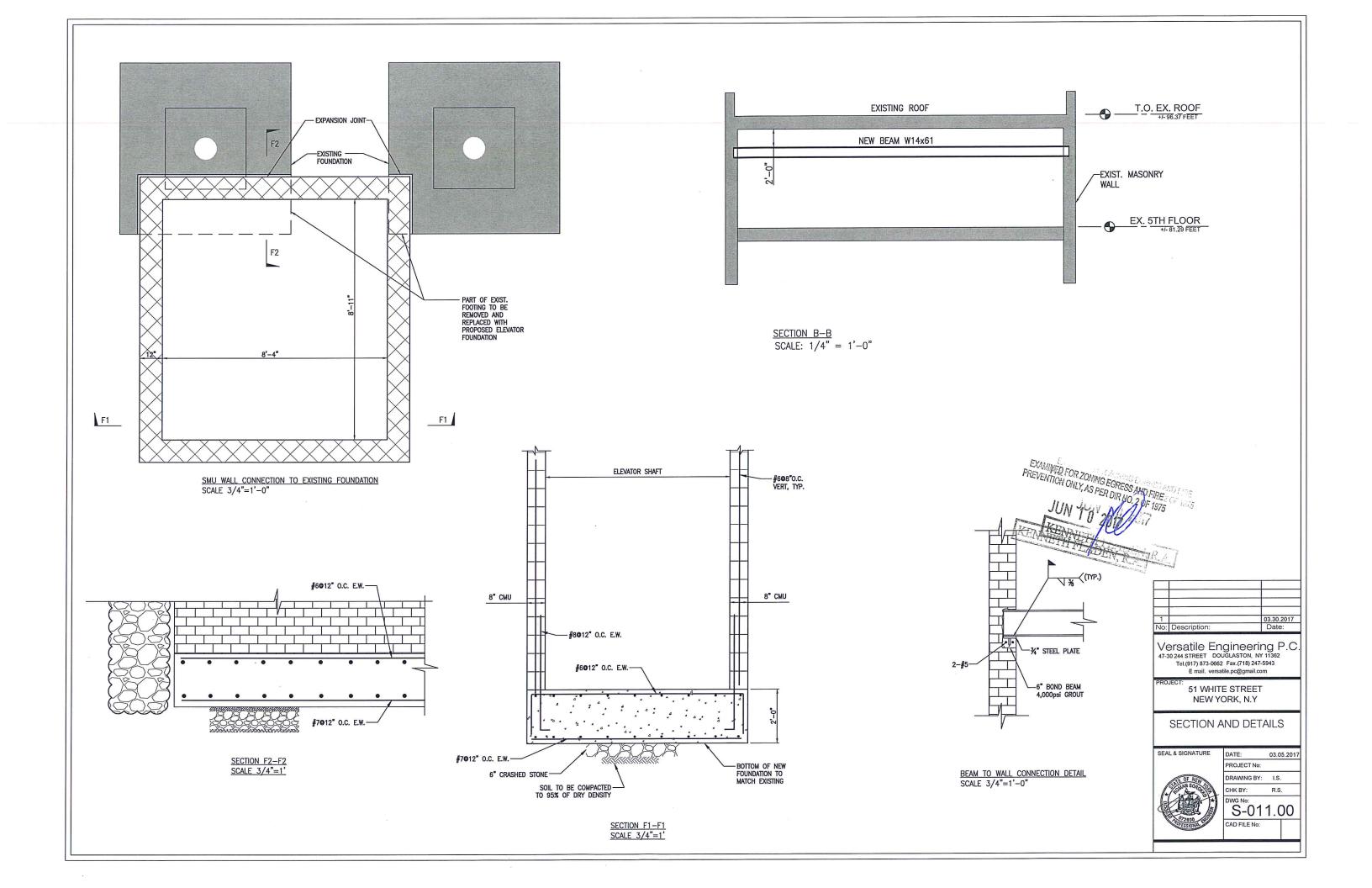
SEAL & SIGNATURE	DA
OF MA	PF
STATE OF SOROLES	DF
1	Cŀ
	D۱
POFESSIONAL CHI	
	CA

DATE: 03.05.2017 PROJECT No:

DRAWING BY: I.S.
CHK BY: R.S.

DWG No: S-008.00





HISTORIC AND CULTURAL RESOURCES APPENDIX



THE NEW YORK CITY LANDMARKS PRESERVATION COMMISSION 1 CENTRE STREET 9TH FLOOR NORTH NEW YORK NY 10007

TEL: 212 669-7700 FAX: 212 669-7780



PERMIT CERTIFICATE OF APPROPRIATENESS

ISSUE DATE: 12/29/17	EXPIRATION DATE: 12/6/2022	DOCKET #: LPC-19-11467		COFA COFA-19-11467
51	ADDRESS:	BOROU		BLOCK/LOT:
51-53 WHITE STREET Manhattan 175 / 24 Tribeca East Historic District			1/5 / 24	

Display This Permit While Work Is In Progress

ISSUED TO:

David Friedman 51 White Street, LLC 34 West 33rd Street, Suite 1218 New York, NY 10001

Pursuant to Section 25-307 of the Administrative Code of the City of New York, the Landmarks Preservation Commission, at the Public Meeting of December 6, 2016, following the Public Hearing of the same date, voted to approve certain work at the subject premises, as put forward in your application completed on November 10, 2016 and as you were notified in Status Update Letter 19-7249 (LPC 19-4877), issued January 3, 2017. The approval will expire on December 6, 2022.

The proposal, as approved, consists of the removal of the rooftop stair bulkhead, chimney and fire escape; at the ground floor, removal of steps, masonry cladding and storefront infill, and the installation of at-grade entrances with paired wood doors and transoms, new wood and glass storefront infill, featuring wood paneled bulkheads and transoms; the installation of a bracket sign mounted to the restored fluted column; at the roof, the construction of a two-story rooftop addition, the installation of rooftop mechanical units and railings and raising the side parapet and cladding it in stucco; at the rear, the removal of the skylight roof from the 1st floor, and the installation of a balcony clad in masonry with six new window openings with soldier course brick window sills; the removal of two multi-light windows from the 2nd floor, and the installation of doors and multi-light transoms; and the installation of two doors within enlarged openings at the sub-cellar. The proposal was shown in an electronic presentation, including photographs and drawings labeled T-000.00, A-001.00, A-002.00, Z-001.00, Z-002.00, DM-100.00, DM-101.00, A-100.00 through A-102.00, A-200.00, A-201.00, A-300.00 through A-302.00, A-401.00, A-402.00, S-001.00 through S-011.00,

and all prepared by Roman Sorokko, P.E., and submitted as components of the application and presented at the Public Hearing and Public Meeting.

In reviewing this proposal, the Commission noted that the Tribeca East Historic District Designation Report describes 51-53 White Street is an Italianate style store and loft building built in 1857-58; and that the building's style, scale, materials and details are among the features which cause it to contribute to the special architectural and historic character of the historic district. The Commission also noted that the storefront openings were reconfigured and ground floor reclad with stucco by the 1980s, which appears to be an early 20th century alteration.

With regard to this proposal, the Commission found that that the removal of the stair bulkhead and chimney will eliminate elements which do not contribute to the special character of the roofscape; that the removal of the fire escape, which is non-decorative, not original to the building, and not part of a continuous grouping of fire escapes on the block front, will restore the façade to its original appearance and allow for its full repair; that restoring the storefront base to reveal the 19th Century fluted cast iron columns and installing recessed storefront infill will improve the building's relationship to other buildings in the streetscape; that the design and materials of the wood and glass storefront infill, including wood paneled bulkheads and multilight transoms to replicate the historic transom found behind cladding, is in keeping with storefront infill historically found on buildings of this age, type and style; that the signage, consisting of a bracket sign mounted on collars gripping the column and vinyl letters applied to the glass, will not damage or overwhelm the façade, and is in keeping with the types of signage historically found on buildings of this age and style; that the visibility of the two-story addition will be concealed by raising the side parapet, and the parapet will be clad in a stucco to match the rest of the party wall; that the brick and stucco cladding of the addition is in keeping with the materiality of the building; that the new balcony at the rear facade will not be visible from any public thoroughfare, and will not change the overall appearance of the rear facade; and that the work will enhance the special architectural and historic character of the building and the streetscape. Based on these findings, the Commission determined the proposed work to be appropriate to the building and the historic district, and voted to approve it.

In voting to grant this approval, the Commission required that two signed and sealed copies of the final Department of Buildings filing drawings showing the approved proposal be submitted to the Landmarks Preservation Commission for review and approval.

Subsequently, on August 21, 2017, the Landmarks Preservation Commission received final drawings labeled G-001.00, EN-100.00, P-100.00, DM-100.00, DM-101.00, A-100.00, A-101.00, A-200.00, A-201.00, A-300.00, A-500.00, E-101.00, M-100.00 through M-103.00, dated May 9, 2017, prepared by Roman S. Sorokko, P.E. and noted that the drawings additionally show the installation of and related interior work at the sub-cellar, cellar, first through fifth floors.

Accordingly, the staff of the Commission reviewed the drawings, and found that the proposal previously approved by the Commission has been maintained. Based on these and the above findings, the drawings have been marked approved with a perforated seal, and Certificate of Appropriateness 19-11467 is being issued.

This permit is being issued in conjunction with Certificate of No Effect 19-1576, issued June 5, 2017 and Modification of Use 19-11468, issued December 22, 2017.

This permit is issued on the basis of the building and site conditions described in the application and disclosed during the review process. By accepting this permit, the applicant agrees to notify the Commission

if the actual building or site conditions vary or if original or historic building fabric is discovered. The Commission reserves the right to amend or revoke this permit, upon written notice to the applicant, in the event that the actual building or site conditions are materially different from those described in the application or disclosed during the review process.

All approved drawings are marked approved by the Commission with a perforated seal indicating the date of the approval. The work is limited to what is contained in the perforated document. Other work or amendments to this filing must be reviewed and approved separately. The applicant is hereby put on notice that performing or maintaining any work not explicitly authorized by this permit may make the applicant liable for criminal and/or civil penalties, including imprisonment and fine. This letter constitutes the permit; a copy must be prominently displayed at the site while work is in progress. Please direct inquiries to Misha'el Shabrami.

Meenakshi Srinivasan

Mhunasar

Chair

PLEASE NOTE: PERFORATED DRAWINGS AND A COPY OF THIS PERMIT HAVE BEEN SENT TO:

David Friedman, 51 White Street, LLC

cc: Caroline Kane Levy, Deputy Director; David Friedman, 51 White Street, LLC



THE NEW YORK CITY LANDMARKS PRESERVATION COMMISSION 1 CENTRE STREET 9TH FLOOR NORTH NEW YORK NY 10007 TEL: 212 669-7700 FAX: 212 669-7780



December 22, 2017

ISSUED TO:

Chair Marissa Lago Department of City Planning 120 Broadway, 31st Floor New York, NY 10271

Re: LPC-19-11468

MOU-19-11468

51-53 WHITE STREET

Tribeca East Historic District

Manhattan

Block/Lot: 175 / 24

At the Public Meeting of December 6, 2016, following the Public Hearing of the same date, the New York City Landmarks Preservation Commission ("LPC") voted to issue a report to the City Planning Commission ("CPC") in support of an application for the issuance of a special permit, pursuant to Section 74-711 of the Zoning Resolution for modifications of bulk at the building located at 51-53 White Street, Manhattan, Block 175, Lot 624 ("the Designated Building"). The Designated Building consists of an Italianate style store and loft building built in 1857-58 and located in the Tribeca East Historic District.

In voting to issue the report, the LPC found that the applicant has agreed to undertake facade work to restore the Designated Building and bring it up to a sound, first-class condition; that the applicant has agreed to establish and maintain a program for continuing maintenance to ensure that the Designated Building is maintained in a sound, first-class condition; that a Restrictive Declaration ("Declaration") will be filed against the property which will bind the applicants and all heirs, successors and assigns to maintain the continuing maintenance program in perpetuity.

Specifically, the applicant has agreed to perform restorative work at 51-53 White Street as described in Certificate of No Effect 19-01576 (LPC 19-1576) issued June 15, 2017, including exterior work at the front façade, including the removal of eighteen (18) one-over-one, double-hung windows and six (6) multi-paned windows that were installed simultaneously with the fire escape, and the installation of twenty-four (24) two-over-two double-hung wood windows and new wood brick molds, all painted gray (Benjamin Moore 1589 "kitty gray"); cleaning and repairing the coated marble facade; repairing the stone window sills; repairing the

Page 1Issued: 12/22/17
DOCKET #: LPC-19-11468

cast iron cornice by installing new sheet metal flashing; installing two paired paneled wood and glass doors and transoms, all painted tan (Benjamin Moore HC-42 "roxbury camel"); work at the rear facade, including the removal of six-over-six and one-over-one double-hung wood windows; installing six-over-six double-hung wood windows within the existing masonry openings; dropping the sill at two (2) window openings at the sub cellar, and installing two doors and tripartite transoms within the enlarged opening; cleaning the brick; and restoring metal shutters and pinning them back in an open position. The Commission also approved the installation of storefront infill and alterations to the ground floor pursuant to Certificate of Appropriateness 19-11467, issued December 14, 2017.

In reaching a decision to issue a favorable report to the CPC, the LPC found that the restorative work pursuant to Certificate of No Effect 19-01576 and Certificate of Appropriateness 19-11467 will help return the building closer to its original appearance; that the facade work will reinforce the architectural and historic character of the building, the streetscape, and the historic district; that it will bring the building up to a sound first class condition and aid in its long term preservation; that the implementation of a cyclical maintenance plan will ensure the continued maintenance of the building in a sound, first-class condition; and that the owners of the designated building, have committed themselves to establishing a cyclical maintenance plan that will be legally enforceable by the LPC under the provisions of a Restrictive Declaration, which will bind all heirs, successors and assigns, and which will be recorded at the New York County Registrar's Office.

The Declaration requires the Declarant to commission a qualified preservation professional, whose credentials are to be approved by LPC, to undertake inspections every five years of the Designated Building's exterior and such portions of the interior, which, if not properly maintained, would cause the Designated Building to deteriorate. The Declarant is required to perform all work identified in the resulting professional reports as being necessary to maintain the Designated Building in a sound, first class condition, and shall make such repairs within time periods approved by the LPC.

Please note that the restoration work must be completed and approved by the Landmarks Preservation Commission before the owners may apply for or accept a temporary Certificate of Occupancy or a permanent Certificate of Occupancy from the Department of Buildings for the area of the building that is the subject of this special permit.

The staff of the Commission is available to assist you with these matters. Please direct inquiries to Misha'el Shabrami.

Meenakshi Srinivasan

Mhunasar

Chair

cc: Caroline Kane Levy, Deputy Director; Jason Friedman, Dab Investements; John Weiss, Deputy Counsel/LPC

DOCKET #: LPC-19-11468



THE NEW YORK CITY LANDMARKS PRESERVATION COMMISSION 1 CENTRE STREET 9TH FLOOR NORTH NEW YORK NY 10007 TEL: 212 669-7700 FAX: 212 669-7780



January 3, 2017

ISSUED TO:

David Friedman 51 White Street, LLC 34 West 33rd Street, Suite 1218 New York, NY 10001

Re: STATUS UPDATE LETTER

LPC - 194877 SUL 19-7249 51 WHITE STREET HISTORIC DISTRICT TRIBECA EAST

Borough of Manhattan Block/Lot: 175 / 24

This letter is to inform you that at the Public Meeting of December 6, 2016, following the Public Hearing of the same date, the Landmarks Preservation Commission voted to approve a proposal to remove a fire escape, replace storefront infill, alter the ground floor, construct a rooftop addition and modify the rear façade at the subject premises, as put forward in your application completed on November 10, 2016. The approval will expire on December 6, 2022.

However, no work may begin until a Certificate of Appropriateness has been issued. Upon receipt, review and approval of two signed and sealed sets of the final Department of Buildings filing drawings for the approved work, a Certificate of Appropriateness will be issued.

Please note that all drawings, including amendments which are to be filed at the Department of Buildings, must be approved by the Landmarks Preservation Commission. Thank you for your cooperation.

Mishael Shabrami

Please Note: THIS IS NOT A PERMIT

cc: Caroline Kane Levy, Deputy Director of Preservation/LPC

Page 1 Issued: 01/3/17 DOCKET #: 194877



THE NEW YORK CITY LANDMARKS PRESERVATION COMMISSION 1 CENTRE STREET 9TH FLOOR NORTH NEW YORK NY 10007 TEL: 212 669-7700 FAX: 212 669-7780



January 5, 2017

ISSUED TO:

David Friedman 51 White Street, LLC 34 West 33rd Street, Suite 1218 New York, NY 10001

Re: STATUS UPDATE LETTER

LPC - 192959
SUL 19-7300
51 WHITE STREET
HISTORIC DISTRICT
TRIBECA EAST
Borough of Manhattan
Block/Lot: 175 / 24

This letter is to inform you that at the Public Meeting of December 6, 2016, following the Public Hearing of the same date, the Landmarks Preservation Commission voted to approve a request to issue a report to the City Planning Commission pursuant to Section 74-711 of the Zoning Resolution for a Modification of Use and Bulk at the subject premises. This approval will expire on December 6, 2022. However, before the Commission can issue a report to the City Planning Commission, the following items must be submitted to the Commission:

- a final restrictive declaration and cyclical maintenance plan; and
- 2) final specifications for restorative work.

Upon receipt, review and approval of this material, the report will be issued.

Please note that all drawings, including amendments which are to be filed at the Department of Buildings, must be approved by the Landmarks Preservation Commission. Thank you for your cooperation.

Mishael Shabrami

Page 1 Issued: 01/5/17 DOCKET#: 192959

Versatile Engineering, P.C. 47-30 244 Street Douglaston, NY 11362-1106

August 1, 2017

To Whom It May Concern,

In regards to the matters of "Subsurface Disturbance" in the sub-cellar of 51-53 White Street, the No-Action scenario has been approved and permitted by NYC DOB for identical levels and areas of "Subsurface Disturbance" as proposed under the With-Action scenario.

As such, the Applicant would construct the following within the existing building envelope on the project site without a special permit (as it is not required):

- Sub-cellar excavation to accommodate a new elevator and provide additional headroom in the sub-cellar;"

As part of the NYC DOB approved and permitted Alteration 1 application number 122913062, the applicant has approved plans for a new 5 foot deep, approximately 10 square elevator pit and sump pump in the middle of the building's sub-cellar floor plan to accommodate for a new passenger elevator. There is no other ground disturbance proposed under this application. No further "Subsurface Disturbance" is proposed under NYC Department of City Planning application number

Sincerely,

Roman Sorokko

Compliance Solutions Services, LLC 175 West 60th Street, # 30A New York, NY 10023

October 13, 2017

Re: 51-53 White Street, New York, NY

Project ID: P2017M0085

To Whom It May Concern,

Currently at 51-53 White Street, construction work is being performed under the approved and permitted NYC Department of Buildings Alteration 1 application job number 122913062. The work is the interior renovation of an existing 5-story office and old code residential building and related mechanical, plumbing and sprinkler work.

Sincerely,

John Strauss, President

Compliance Solutions Services, LLC



Project:

Voice (212)-669-7700 Fax (212)-669-7960 http://nyc.gov/landmarks

ENVIRONMENTAL REVIEW

Project number: DEPARTMENT OF CITY PLANNING / 77DCP432M

Address: Date Received:	51 WHITE STREET, BBL: 1001 1/16/2018	750024	
[] No architect	tural significance		
[X] No archaeo	logical significance		
[X] Designated	New York City Landmark or V	Vithin Designated Historic District	
[] Listed on Na	ational Register of Historic Pla	ces	
[X] Appears to	be eligible for National Regist	er Listing	
[] May be arch	aeologically significant; reque	esting additional materials	
	ceipt of the EAS dated January cural resources. There are no	y, 2018. The text is acceptable for shadow impacts.	
Guin San	Tani		
Juna Jun	1 was	2/14/18	
SIGNATURE Gina Santucci, I	Environmental Review Coordin	DATE ator	
File Name: 330)28_FSO_DNP_01222018.doc		

51 White Street LLC, by Vertex Realty Group, LLC, as Agent 299 Broadway, 1809 New York, NY 10007

New York, NY 10007 DECLARATION Dated: November 14, 2016 Location: **Street Address** Block 175 Lot 24 New York County, New York Record & Return to:

DECLARATION

ARTICLE I.

DEFINITIONS

ARTICLE II.

DEVELOPMENT, PRESERVATION, REPAIR AND MAINTENANCE OF THE SUBJECT PROPERTY

- 2.1 Certificate of Occupancy
- 2.2 Preservation, Repair and Maintenance
 - 2.3 Continuing Maintenance Program

ARTICLE III.

CONDOMINIUM BOARD

- 3.1 General
- 3.2 Board
- 3.3 Condominium Declaration

ARTICLE IV.

EFFECT AND ENFORCEMENT

- 4.1 Effective Date
- 4.2 Filing and Recording
- 4.3 Additional Remedies
- 4.4 Notice and Cure
- 4.5 Acknowledgment of Covenants
- 4.6 No Other Enforceable Restrictions
- 4.7 Governance
- 4.8 Severability
- 4.9 Applicability to other City Agencies
- 4.10 Limitation of Liability
- 4.11 Subordination
- 4.12 Right to Convey

ARTICLE V.

AMENDMENTS, MODIFICATIONS AND CANCELLATIONS

- 5.1 Amendment or Cancellation
- 5.2 Minor Modification
- 5.3 Recording and Filing
- 5.4 Surrender or Nullification

ARTICLE VI.

MISCELLANEOUS

- 6.1 Exhibits
- 6.2 Notices
- 6.3 Indemnification

DECLARATION made as of the 14th day of November, 2016 by 51 White Street LLC, , DECLARANT ADDRESS (the "Declarant"):

WITNESSETH:

WHEREAS, Declarant is the owner in fee simple of certain real property located in the Borough of *Manhattan*, City, County and State of New York, which property is designated as Block 175, Lot 24 on the Tax Map of the City of New York and by the street address 51-3 White Street, and is more particularly described on Exhibit A attached hereto (the "Subject Property") and on which is located STRUCTURE(S)

WHEREAS, Declarant proposes to renovate the Designated Structure;

WHEREAS, the Subject Property together with the Designated Structure(s) constitute(s) the Subject Premises (the "Subject Premises"); and

WHEREAS, TITLE COMPANY ("______"), a title company, has certified as of

November 14, 2016 that Declarant is the sole party in interest ("Party in Interest"), as that term is defined in
the zoning lot definition in Section 12-10 of the Zoning Resolution of the City of New York (the "Zoning
Resolution"), to the Subject Premises, a copy of which certification is attached hereto as Exhibit B; and

WHEREAS, all Parties in Interest to the Subject Property have executed this Declaration or waived their rights to execute this Declaration;

WHEREAS, as of the date hereof, <u>TITLE COMPANY</u> has determined there has been no change in the certification attached as <u>Exhibit B</u> and Declarant represents and warrants that the Parties in Interest listed in <u>Exhibit B</u> are the only known Parties in Interest in the Subject Premises as of the date hereof; and

WHEREAS, pursuant to the provisions of Section 3020 of the New York City Charter and Title 25, Chapter 3 of the Administrative Code of the City of New York (the "Landmark Preservation Law"), the Landmarks Preservation Commission (the "LPC") has [designated an area which includes the Designated Structure(s) as The Tribeca East Historic District OR [has designated the designated structure as an individual landmark] because of its special character or historical or aesthetic interest or value; and

WHEREAS, Declarant at the public hearing on <u>December 6, 2016</u> requested the LPC issue a

report to the City Planning Commission of the City of New York (the "CPC") for an application under Section 74-711 of the Zoning Resolution for a special permit (the "Special Permit") to modify Section 23-692 & 23-47 of the Zoning Resolution, with respect to conforming uses[and/or bulk waivers] within an C6-2A (R8A equivalent) zoning district, so that a "Narrow Building" can be enlarged; and

WHEREAS, at the public meeting on <u>December 6, 2016</u>, following said public hearing, the LPC voted to issue the report to the CPC as requested for the special permit application (the "Application"), and to grant a Certificate of Appropriateness ("C of A"), which allows the alteration of the Designated Structure in <u>The Tribeca East Historic District</u> in accordance with Section 25-307 of the Administrative Code of the City of New York. A copy of the C of A is annexed hereto as <u>Exhibit C</u>; and

WHEREAS, ZR Section 74-711 requires, <u>inter alia</u>, that a program has been established for continuing maintenance (the "Continuing Maintenance Program") that will result in preservation of the Designated Structure by Declarant; and

WHEREAS, Declarant has agreed to certain obligations and restrictions contained in this

Declaration for the protection, preservation, repair and maintenance of the Designated Structure; and

WHEREAS, Declarant desires to restrict the manner in which the Subject Premises may be developed, restored, and operated in order to assure the protection, preservation, repair and maintenance of the Designated Structure; and

WHEREAS, Declarant represents and warrants that there are no restrictions, liens, obligations, covenants, easements, limitations or encumbrances of any kind, the requirements of which have not been waived or subordinated, which would prevent or preclude, presently or potentially, the imposition of the restrictions, covenants, obligations, easements and agreements of this Declaration;

NOW, THEREFORE, Declarant does hereby declare and agree that the Subject Premises shall be held, sold, transferred, conveyed and occupied subject to the following restrictions, covenants, obligations, easements, and agreements, all of which are for the purpose of protecting the Subject Premises, which shall inure to the benefit of the City of New York, and which shall run with the Subject Premises and bind Declarant and its heirs, successors and assigns so long as they have a right, title or interest in the Subject Premises or any part thereof.

The following words, when used in this Declaration, shall have the following meanings:

- 1.1 "Application" shall mean the application to the City Planning Commission for the Special Permit.
- 1.2 "Buildings Department" shall mean the New York City Department of Buildings, or any successor to the jurisdiction thereof.
- 1.3 "Chairperson of the CPC" shall mean the Chairperson of the City Planning Commission of the City of New York or any successor to the jurisdiction thereof.
- 1.4 "Chairperson of the LPC" shall mean the Chairperson of the Landmarks Preservation
 Commission of the City of New York or any successor to the jurisdiction thereof.
 - 1.5 "City" shall mean the City of New York.
- 1.6 "City Council" shall mean the New York City Council or any successor to the jurisdiction thereof.
- 1.7 "CPC" shall mean the New York City Planning Commission, or any successor to the jurisdiction thereof.
- 1.8 "Declarant" shall mean the named Declarant and the heirs, successors and assigns of the named Declarant including, without limitation, any owner of a condominium unit within the Designated Structure, except that Declarant shall not be deemed to include (i) a mortgagee of all or any portion of the Subject Property until it succeeds to the interest or obligation of Declarant by purchase, assignment, foreclosure or otherwise, or (ii) a tenant of the Subject Premises, unless such tenant holds a lease to all or substantially all of the Subject Premises.
- 1.9 "DCP" shall mean the New York City Department of City Planning or any successor to the jurisdiction thereof.
- 1.10 "Designated Structure" shall mean the 7 story structure located on Tax Block <u>175</u>, Lo 24 in <u>Manhattan</u>, which is a contributing structure in <u>The Tribeca East Historic District.</u>
- 1.11 "Force Majeure" shall mean: strike, lockout or labor dispute(s); inability to obtain materials or reasonable substitutes therefor unless due to any act or failure to act by Declarant; acts of God;

unforeseen governmental restrictions, regulations, omissions or controls; enemy or hostile government actions; civil commotion, insurrection, revolution or sabotage; fire or other casualty; inclement weather of such a nature as to make performance or completion of the Landmark Work not feasible unless due to any act or failure to act by Declarant; any damage to the Subject Premises of such a nature as to make completion of the Landmark Work not feasible; a taking of the Subject Premises, or a portion thereof, by condemnation or eminent domain; failure of a public utility to provide power, heat or light; unusual delay in transportation; material delays by the City, State or United States Government, or any agency or instrumentality thereof, in the performance of any work or processing or approval of any applications required in order to permit Declarant to carry out its obligations pursuant to this Declaration unless due to any act or failure to act by Declarant; denial to Declarant by any owner of an enforceable interest in adjoining real property, including any private fee owner or ground lessee of adjoining real property, or any agency of the City or State having an enforceable interest in adjoining real property, including sidewalk or streets, of a right to access to such adjoining real property, if such access is required to accomplish the obligations of the Declarant pursuant to this Declaration; the pendency of a litigation not initiated by Declarant or similar proceeding which suspends or materially and adversely affects the ability of the Declarant to accomplish the obligations of the Declarant pursuant to this Declaration; or other conditions similar in character to the foregoing which are beyond the control of Declarant. No event shall constitute a Force Majeure unless Declarant complies with the procedures set forth in Sections 2.1 and 6.2 hereof.

- a) 1.12 "Landmark Work" shall refer to the restoration work on the Designated Structure as described in the C of A which is attached hereto as Exhibit C.
- b) 1.13 "LPC" shall mean the Landmarks Preservation Commission of New York City or any successor to the jurisdiction thereof.
- c) 1.14 "Mortgagee" shall mean (a) the institutional first mortgagee of all or substantially all of the Subject Premises listed in Exhibit B or (b) the first mortgagee of a condominium unit within the Designated Structure.
- d) 1.15 "Party(ies) in Interest" shall mean any party-in-interest listed in <u>Exhibit B</u> and any other party-in-interest to the Subject Premises who has given written notice of its name and address to

the CPC and the LPC.

- e) 1.16 "Special Permit" shall mean the special permit described on page 2 hereof.
- f) 1.17 "Special Permit Use" shall mean to enlarge a narrow building. Notwithstanding the foregoing, no use shall be deemed a Special Permit Use if it is permitted as-of-right within the Subject Premises by the terms of the Zoning Resolution then in effect.
- g) 1.18 "Zoning Resolution" shall mean the Zoning Resolution of the City of New York.
- . The issuance of the Special Permit is premised on, <u>inter alia</u>, the performance of the construction of the following restoration work on the Designated Structure in conformity with the C of A and the requirements thereof (which restoration work shall be referred to as the "Landmark Work"):

1. Street Level Storefront:

- a) Existing Condition: The early 20th century stucco storefront layer entirely covers the existing 19th century painted fluted cast-iron columns. The overall condition of the column capitals is currently unknown. The column bases are brick with no cast-iron elements.
- b) Restoration Work:
 - i) Carefully remove and discard all existing stucco and terra-cotta brick layers covering the first story's original appearance to reveal 19th century storefront columns beneath.
 - ii) Investigate historic finish treatment of cast-iron columns. The original paint finish was found to be a color that closely matches Benjamin Moore #630, "Martha's Vineyard."
 - iii) Remove all existing column paint layers using chemical paint remover (Peel-Away ST-1 or approved equivalent). Excess paint can be removed by hand-scraping or otherwise using the gentlest methods possible. No mechanical removal of paint is allowed.
 - iv) Prime and paint all columns and column elements their historic color using zinc-rich primers and exterior grade metal paint.

- v) Corinthian column capital foliate possibly exists: Any column elements that have
 deteriorated beyond repair, or are missing altogether, shall be replaced with cast iron
 components of the appropriate style, scale, and appearance and painted to match the original column.
- c) Existing Condition: A single 19th century painted wood and glass storefront infill transom panel at the eastern-most storefront bay remains hidden behind the 20th century glass transom.

d) Restoration Work:

- i) Investigate the historic finish treatment of the existing wood transom. The original paint finish was found to be a color that closely matches Benjamin Moore #HC 42, "Roxbury Caramel."
- ii) Carefully remove the existing transom, protect and store.
- iii) Hand scrape, prime and paint the transom historically accurate color. Reinstall the transom on the existing historic location above the proposed painted (to match) wood and glass storefront doors in the eastern-most storefront bay.
- iv) Install new wood and glass storefront at all 6 bays (2 pairs of double doors, and 4 show windows with bulkheads) painted to match the historical color.
- e) Existing Condition: The overall condition of the cast-iron storefront cornice, brackets and modillions are good and most details remain intact.

f) Restoration Work:

- i) Investigate historic finish treatment of cast-iron elements. The best paint sample evidence available at this time indicates the cornice and brackets were painted white –similar to the marble façade and window trim.
- ii) The cornice terminates 8 inches away from the western bracket.
- iii) The cornice will be continued to the bracket using cast iron elements and painted to match.
- iv) The 2 brackets are fully intact and in excellent condition.
- v) 1 modillion is corroded. Remove rust and install missing their foliate.
- vi) 10 modillions are missing foliate.

- vii) Any cornice elements deteriorated beyond repair, or missing altogether, shall be replaced with components matching the original appearance and painted to match the historic paint color.
- viii) Remove all existing paint layers with chemical paint remover (Peel-Away ST-1 or approved equivalent). Excess paint can be removed by hand-scraping or otherwise using the gentlest methods possible. No mechanical removal of paint is allowed.
- ix) Replace weathered or deteriorated caulking between the joints of connecting pieces of cast- iron and paint to match.
- x) The existing non-original painted metal cornice flashing will be removed and replaced with galvanized aluminum flashing painted to match the historic cornice color.

2. Primary (White Street) Facade:

DOB records indicate that the front building stone façade was restored in June 2009.

- a) Existing Condition: Fire escape The minimally-decorative fire escape on the front façade is presumably a 20th century addition. The design of the fire escape can be attributed to the specifications for exterior fire-escapes as outlined in the New York Labor Law 273 of 1913.
- b) Restoration Work: Fire escape removal will not leave gaps, holes, or unsightly conditions on the marble facade. All fire escape stone connection points will be repaired with Jahn patches no more than 3 inches square. Remove all existing deteriorated metal anchors embedded in the façade at locations as indicated on the drawings and as directed by architect. Cut damaged marble back, remove metal corroded areas and replace with in kind stone at all embankment locations. Submit sample patches for architect, owner and LPC to approve.
- c) Existing Conditions Face of Building: The overall condition of the façade is fair. The original marble façade was coated with a gypsum coating throughout except for where there are existing GFRC window sills, hoods and building cornice/frieze. This coating was added as long as 75 years ago. There is currently a variable, greyish gypsum crust on the surface of the original marble. As part of the façade restoration, the applicant has researched sympathetic means of cleaning the

masonry to remove the gypsum. Samples have been taken to determine the condition of the marble beneath. Samples found that the face of the original marble was ribbed prior to application of the gypsum coating. At areas where chipped pieces of cement where found, sugaring of the marble was beneath several samples.

d) Removal of the gypsum crust will further destroy the damaged marble beneath the applicant will work with LPC to determine the best long-lasting treatment for the existing gypsum coat without removal.

e) Restoration Work:

- i) The entire front façade will be treated with a ½" inch minimum thick layer of Jahn cementitious, mineral based mortar on all gypsum covered surfaces. Scrape loose layers of gypsum and following manufacturer's specifications for application. Provide samples & mockups of matching color, texture and finish for architect, owner and LPC approval
- ii) Patch and repair all cracked, spalled, deteriorated and unsound areas of. Square cut;
 repatch area with color matching Jahn material as approved by architect, owner & LPC.
 Provide samples & mockups of matching color, texture and finish for architect approval.
- iii) Stone repointing: Replace deteriorated & cracked mortar joints at locations as indicated on drawings. Cut mortar joint to a minimum depth of ¾ inches; install new mortar color to match existing as approved by architect, owner & LPC.
- iv) Marble and cast cement window hood consoles remain at all 24 windows. The remaining marble hoods and consoles show slight deterioration, but a majority of the embellishments remain visible. The GFCR window hoods and consoles are in excellent condition. Minor patch work is proposed using a Jahn patching material at certain window hoods.
- v) Marble and cast cement window sills remain at all 24 windows. Several sill edges and tips are missing, typically towards the top of the sill. Previously replaced sills are in excellent condition. Minor patch work is proposed using a Jahn patching material at certain window sills. Submit samples of cleaning stone to LPC for approval. Use Jahn color selection match services for all patches.

f) Existing Conditions: Windows

- i) Investigate historic finish treatment of wood windows. The original paint finish for the window trim was found to be a color that closely matches Benjamin Moore #1048, "Mohair", the window sash color that closely matches Benjamin Moore #1589, "Kitty Grey".
- ii) There are 4 existing window types on four stories of the façade:
 - (1) The 19th century painted wood one-over-one double-hung windows.
 - (2) The 20th century painted metal and safety glass fireproof four-over-four double-hung "fire escape access" windows.
 - (3) The 20th century replacement aluminum one-over-one double-hung windows.
 - (4) The 20th century replacement aluminum one-over-one double-hung windows with fixed top transom.
- g) Restoration Work: All of the 24 existing windows from the second through fifth floors will be removed and replaced with painted wood two-over-two double-hung windows of varying heights. New window profiles will match existing historic profiles from the 14 existing 19th century painted wood one-over-one double-hung windows.
- Existing Conditions and Restoration Work: The stone and metal roof cornice was restored in June 2009.
 - All of the existing stone cornice, frieze, modillion and brackets are in excellent condition.
 Clean gently.
 - ii) The metal upper portion of the cornice is dented in some areas. However, it remains weather tight and there are no holes, no signs of rusting and the paint is intact.
 - iii) The existing cornice will be cleaned using low pressure water and detergents.

3. Secondary (Rear) Façade:

a) Existing Condition: Exterior Brick Masonry- The entire rear façade is constructed of running bond red brick from at least two time periods (original 19th century handmade brick and 21st century red machine brick). The majority of the brick on the rear facade is original. The entire area above the

5th floor windows was replaced and patching was done at window sills and heads throughout in June 2009.

b) Restoration Work:

- Clean all masonry surfaces with the gentlest method possible, such as low pressure water and detergents, using natural bristle brushes. Water pressure must be below 500 psi with Rotex system.
- ii) No defective mortar joints have been found. Any defective mortar joints must be scraped out by hand, not with electric saws or tools. Mason shall use a soft mortar mix recipe (1 part white Portland cement, 2 1/2 parts line & 5-6 parts sand). Combine dry ingredients, and then mix thoroughly with potable water. The finished mortar surface shall be tooled so that the mortar is slightly recessed behind the brick. Any excess mortar shall be cleaned off the face of the masonry, along with film of cement or lime from the surface of the mortar.
- iii) Remove all conduits, mechanical equipment connections, wires, etc. from brick surfaces.
- c) Existing Conditions and Restoration Work: Window lintels The original lintels are brownstone with no articulation. The original 5th floor window lintels were removed and replaced with steel concealed window. All of the remaining 19th century brownstone window lintels remain.
 - The continuous brownstone window lintels at the cellar level and 2 other window lintels have spalling.
 - ii) Any spalling in the brownstone will be left alone.
- b) Existing Conditions and Restoration Work: Window sills
 - i) All rough stone faced blue stone window sills are in place, intact and have minor spalling on the tops of several lower floor window sills.
 - ii) Loose stone pieces will be removed. If no cracks are found on the sills, they will be left as-is and cleaned using the same standards as the surrounding masonry.
 - iii) At the sub-cellar, remove brick window bulkheads down to existing bluestone sills.
 - iv) Install 2 new wood and glass doors on the 2 center sub-cellar window openings.
- d) Existing Conditions and Restoration Work: Fire shutters
 - i) 75 of the 79 pairs of rear façade metal fire shutters remain on the building.

- ii) All shutter pin holders exist in place except in four locations where shutters had been previously. All shutters are rusted on the surface and most are whole.
- iii) Rusty shutters will remain in place to be hand scraped and wire brushed of rust, primed and painted with a clear coat rust inhibiting sealer.
- iv) Several shutters have corrosion at the tops and bottoms (at the cellar and sub-cellar levels). Corroded areas will be cut-back to sound metal and new metal should be welded to complete the shutters perimeters.
- v) All shutters will be pinned back to the building and locked in the open position.
- e) Existing Conditions and Restoration Work: Windows
 - Sufficient evidence of intact original windows exists on the rear façade. The majority of existing windows are original 6-over-6 double-hung wood and single pane glass windows.
 - 9 windows are missing entirely, 8 windows are 21st century metal replacement windows and
 10 windows (at the sub-cellar and cellar) are missing.
 - iii) Investigate historic finish treatment of remaining wood windows. The original paint finish for the windows was found to be a color that closely matches Benjamin Moore #1048, "Mohair"
 - iv) All of the 30 existing windows from the cellar through 5th floors will be removed and replaced with painted wood six-over-six double-hung windows of varying heights. The historic profiles and paint color to match the 22 existing 19th century painted wood six-over-six simulated divided light double-hung windows.
- f) Existing Conditions and Restoration Work: 1st floor skylight
 - The original appearance of the 1st floor rear yard skylight was flat as seen in Alt-498-1889.
 - ii) The existing skylight has been covered with adhesive roll roofing and 2 mechanical vents have been boxed out and covered with the same roofing material.
 - iii) Install a new thermal glass skylight above the 1st floor in the rear yard and raise the existing first floor parapet 5 feet higher than the existing adjacent West retaining wall parapet (2 feet higher than the 1889 Parapet).

4. West Wall:

- a) Existing Conditions and Restoration Work: Stucco wall
 - Raise the existing late 21st century parapet and reinstall existing camelback coping stone units up and average of 4 feet.
 - Stucco the entire West wall visible from a public way to blend a uniform color and texture using Merlux P-1661"Titanium "Portland cement based stucco.
- b) Non-visible Lot line windows
 - Install non-visible West wall lot line windows and lintels at the second through fifth floors behind 48 White Street.
 - ii) New window openings will be stucco around to match.
- c) Remove lights, cameras and conduit from surfaces.

Written notice that the Declarant is seeking a temporary certificate of occupancy ("TCO") or permanent certificate of occupancy ("PCO") shall be provided to the LPC seven days prior to the Declarant applying for a TCO or PCO. No temporary certificate of occupancy ("TCO") or permanent certificate of occupancy ("PCO") which permits a Special Permit Use shall be granted by the Buildings Department or accepted by Declarant until the Chairperson of the LPC shall have given written notice to the Buildings Department that the Landmark Work has been satisfactorily completed by Declarant or the Chairperson of the LPC has certified in writing, as provided in Section 2.1(d) hereof, that (a) a Force Majeure has occurred and (b) the Chairperson of the LPC has no objection to the issuance of a TCO or PCO for, as appropriate, all or part of the Subject Property. The Chairperson of the LPC shall issue said notice reasonably promptly after Declarant has made written request to the Chairperson of the LPC and has provided documentation to support such request, and the Chairperson of the LPC shall in all events endeavor to issue such written notice to the Buildings Department, or inform Declarant in writing of the reason for not issuing said notice, within twenty-one (21) calendar days after Declarant has requested such written notice. Upon receipt of the written notice from the Chairperson of the LPC that (i) the Landmark Work has been satisfactorily completed or (ii) the Chairperson of the LPC has certified that a Force Majeure has occurred and that the

Chairperson of the LPC has no objection to the issuance of a TCO or PCO, the Buildings Department may grant, and Declarant may accept, a TCO or PCO for the Designated Structure.

- i) (c) Declarant shall permit inspection of the Designated Structure by the Chairperson of the LPC and representatives designated by the Chairperson of the LPC in connection with the notice described in Section 2.1(b) hereof.
- ii) (d) (i) Upon application by Declarant, notwithstanding anything contained in any other provision of this Declaration, the Chairperson of the LPC, in the exercise of his or her reasonable judgment, may certify that the performance or completion of the Landmark Work is delayed due to a Force Majeure as provided in paragraph (ii) below.
- iii) (ii) In the event that Declarant reasonably believes that full performance of its obligations to complete the Landmark Work has been delayed as a result of a Force Majeure, Declarant shall so notify the Chairperson of the LPC as soon as Declarant learns of such circumstances. Declarant's written notice shall include a description of the condition or event, its cause (if known to Declarant), its probable duration, and in Declarant's reasonable judgment, the impact it is reasonably anticipated to have on the completion of the Landmark Work. The Chairperson of the LPC shall, within twenty-one (21) calendar days of its receipt of Declarant's written notice, (A) certify in writing that a Force Majeure has occurred, including a determination of the expected duration of such delay (the "Delay Notice"), and grant Declarant appropriate relief for such delay, including certifying in writing to the Buildings Department that the Chairperson of the LPC has no objection to the issuance of a TCO or PCO for, as appropriate, all or part of the Subject Property, or (B) notify Declarant that it does not reasonably believe a Force Majeure has occurred. With respect to any claim that a Force Majeure has delayed the Declarant's performance or completion of the Landmark Work, the LPC may require that Declarant post a bond or other security in a form and amount acceptable to the Chairperson of the LPC in order to ensure that the Landmark Work is completed. Such alternative security could include, without limitation, alternative or additional conditions on the issuance of any PCO or TCO. Any delay caused as the result of a Force Majeure shall be deemed to continue only as long as the Declarant shall be using reasonable efforts to minimize the effects thereof. Upon cessation of the events causing such delay, the Declarant shall promptly recommence the Landmark

Work.

- iv) (e) Notwithstanding anything else to the contrary contained herein, this Declaration shall not be deemed to prohibit or restrict Declarant from (i) applying for or receiving a TCO or a PCO for any floor area in the Designated Structure which is not to be used for a Special Permit Use; or (ii) obtaining permits or building notices from the Building's Department to perform work, including tenant work, in the Designated Structure prior to the completion of the Landmark Work; or entering into agreements affecting all or any portions of the space in the Designated Structure prior to completion of the Landmark Work.
- v) Declarant hereby covenants and agrees to preserve, repair and maintain the Designated Structure in sound first-class condition, at its own cost and expense, in accordance with this Declaration, the C of A and the Landmarks Preservation Law. It is understood that certain obligations and duties set forth in this Declaration are above and beyond the requirements of the Landmarks Preservation Law and do not in any way diminish Declarant's obligation and responsibility to comply with all provisions of the Landmarks Preservation Law.
- vi) 2.3. Declarant shall comply with the obligations and restrictions of the continuing maintenance program (the "Continuing Maintenance Program") as set forth below:
- vii) (a) <u>Periodic Inspections</u>. Declarant shall establish and carry out a cyclical inspection and maintenance program for the Designated Structure which shall include, without limitation, the following:
- (i) At Declarant's expense, an inspection (the "Periodic Inspection") shall be made every five years, on or within two weeks of the anniversary of the issuance by the LPC of the Notice of Compliance pursuant to the C of A, and thereafter, shall be made on or within every five years from the date of such initial inspection. In the event that Declarant has accepted a TCO or a PCO that permits a special permit use without having first received the Notice of Compliance, the first periodic inspection shall be made on or within the fifth anniversary date of the issuance of such TCO or PCO and every five years thereafter. The Periodic Inspection shall be done by a preservation architect, engineer or other qualified person knowledgeable about the preservation of historic structures (the "Preservation Architect") selected by Declarant from a list prepared by Declarant and approved by the Chairperson of the LPC as to their

credentials, which approval shall not be unreasonably withheld or delayed. Declarant shall update such listing upon the request of the Chairperson of the LPC. In addition, Declarant may periodically supplement the list of Preservation Architects, subject to the approval of the Chairperson of the LPC as to their credentials. The Preservation Architect shall make a thorough inspection of the exterior of the Designated Structure and those portions of the interior, as well as those portions ot the mechanical systems that are accessible to and under the control of building management, which, if not properly maintained, could affect the condition of the exterior. The Periodic Inspection shall include (but not be limited to) the following portions of the Designated Structure: All windows, masonry facades, cast iron elements, rear fire shutters, building roof cornice and window hoods and sills.

- ix) (ii) The Preservation Architect shall, at the expense of Declarant, submit a report on each Periodic Inspection (the "Periodic Report") to Declarant and the LPC within 45 days after each Periodic Inspection. The Periodic Report shall outline the existing conditions of the Designated Structure and detail the work which should be performed in order to maintain the Designated Structure, including all architectural features and elements, in a sound first-class condition, including but not limited to caulking, painting, cleaning, repair of architectural features and elements, checking for rust and repointing of masonry.
- X) (iii) Submission of Local Law 10 & 11 Facade Inspection Report. If the Designated Structure is subject to the Facade Inspection Report requirements of Title 1 RCNY §32-03 et seq., a copy of any such Facade Inspection Report which is submitted to the New York City Department of Buildings, shall also be provided at the same time to the Landmarks Preservation Commission. In the event that the building is found to be unsafe pursuant to such inspection, the declarant shall notify the Landmarks Preservation Commission simultaneously with the owner and the Department of Buildings, pursuant to Title 1 RCNY §32-03(b)(2)(vii).
- xi) (iv) Except as set forth below, Declarant shall perform all work which a Periodic Report, Facade Inspection Report or Emergency Incident Report (as defined below) identifies as necessary to maintain the Designated Structure, including architectural features and elements, in sound first-class condition. No work shall be performed except pursuant to a permit from the LPC if a permit is required

under the Landmarks Preservation Law. If the LPC determines that a specific item of work or method of work as set forth in a Periodic Report, Facade Inspection Report or Emergency Incident Report would be inappropriate or inadequate, the determination of the LPC shall control and Declarant need not and shall not have such specific item performed. Declarant shall have the right to contest in a hearing before the LPC any work called for in a Periodic Report or Emergency Incident Report. Declarant's obligation to perform such contested work or to perform it by a method acceptable to the LPC shall be stayed pending a decision in any such proceeding at the LPC. Declarant shall proceed with all work which is uncontested during the stay pursuant to a permit.

- (v) Unless Declarant has notified the LPC in writing that it contests any work as set forth in the preceding paragraph, Declarant shall apply for all necessary permits or certificates from the LPC within 45 days of receiving the completed report from the Preservation Architect. Declarant shall use its best efforts to assure that all repairs, rehabilitation, repointing and restoration work detailed in the Periodic Report or Emergency Incident Report shall be completed at the earliest possible date, but no later than within nine months of the date of issue of the certificate or permit from the LPC, or, if no such certificate or permit is required, within nine months of the date of the Periodic Report or Emergency Incident Report. If for reasons beyond Declarant's control, as determined by the Chairperson of the LPC, such work cannot be completed within nine months, Declarant shall apply to the LPC for an extension of time within which to complete such work. Such extensions shall be for a stated additional period of time to be related to the period of delay and shall not be unreasonably withheld.
- xiii) (b) <u>Emergency Protection Program</u>. Declarant shall establish and be prepared to carry out an emergency protection program for the Designated Structure which shall include at the minimum, the following:
- xiv) (i) If a fire, the elements or any other cause whatsoever damages or destroys the Designated Structure or any part thereof (the "Emergency Incident"), Declarant shall use all reasonable means to save, protect and preserve the Designated Structure at the time of and following the Emergency Incident, including, but not limited to, acting with an approval from the Chairperson of the LPC or his or her designated representatives to stabilize and prevent further damage to or deterioration of the

structure, and to secure the Subject Premises from unauthorized access. Declarant shall not remove from the Subject Premises any debris consisting of exterior features of the Designated Structure without an approval from the Chairperson of the LPC or his or her designated representative. Unless necessitated as a safety precaution as ordered by the Departments of Buildings, Health, Fire or Police, or as an action taken in response to a life-threatening situation, the Declarant shall not remove any other debris or otherwise clear the Subject Premises without the approval of the LPC or its Chairperson.

- LPC. Declarant shall also give timely notice to the LPC of the time or times when the New York City

 Departments of Buildings, Health and Fire will inspect the Subject Premises following the Emergency

 Incident, in order that the LPC may have a representative present during such inspections.
- xvi) (iii) Within sixty days of such Emergency Incident, a Preservation Architect shall, at the expense of Declarant, make a thorough inspection of the Designated Structure and submit a report (an "Emergency Incident Report") to Declarant and to the LPC outlining the condition of the structure, assessing the extent of damage, and recommending (A) work, if any, which must be undertaken immediately, upon receipt of proper permits, in order to stabilize and prevent further damage to the Designated Structure, and (B) work that should be performed to repair and restore the Designated Structure to a sound, first-class condition or, alternatively to (A) and (B), that Declarant make an application to the LPC for permission to demolish the remaining portions of the Designated Structure.
- xvii) (iv) With regard to the work to be performed pursuant to subparagraph (iii)(A),

 Declarant shall immediately upon receipt of the Emergency Incident Report request and vigorously pursue

 all necessary permits and upon their issuance, shall undertake all such work with alacrity. If no permits are
 required, work shall be undertaken as soon as possible after receipt of the Emergency Incident Report.

 xviii) With regard to the work to be performed pursuant to subparagraph (iii)(B),

 within ninety days of receiving the report of the Preservation Architect, Declarant shall apply for all
 necessary permits and certificates from the LPC to repair and restore or to demolish. No work on the

exterior of the Designated Structure, and no work on the interior of the Designated Structure which would

affect the exterior or which would require the issuance of a permit from the Department of Buildings shall

be performed except pursuant to a permit from the LPC. If the LPC determines that a recommendation to demolish or to perform a specific item of work or method of work set forth in the report would be inappropriate, using the criteria set forth in the Landmarks Preservation Law, the determination of the LPC shall control and the Declarant shall not have such specific work performed or be entitled to have the Designated Structure demolished unless Declarant is obligated to perform such work or demolish the structure in accordance with an "Unsafe Building Notice" issued by the Department of Buildings. All repair, restoration, rehabilitation, repointing, and other work provided for in a certificate or permit shall be completed within nine months of the date of issue of such certificate or permit by the LPC. If such work cannot be completed within nine months for reasons beyond Declarant's control, as determined by the Chairperson of the LPC, Declarant shall apply in writing to the LPC for an extension of time within which to complete such work. Such extensions shall be for a stated additional period of time which is related to the period of the delay and shall not be unreasonably withheld.

Access to Designated Structure. Declarant agrees to provide access to the Designated Structure to the LPC and its designated representatives at reasonable times and upon reasonable written notice, except in cases of emergency, in which event the LPC or its representatives shall have access, if feasible, immediately and without notice, in order to insure that the preservation, repair and maintenance of the Designated Structure is carried out in accordance with this Declaration.

a) Failure to Perform. In the event that the preservation, repair, or maintenance of the Designated Structure is not performed in accordance with the provisions of this Article, the LPC shall give written notice of such failure to perform to the Declarant. In the event that Declarant, its successors or assigns, fails after sixty days from receipt of written notice from the LPC to perform or shall commence to perform but fail diligently to prosecute to completion, any such repair and/or maintenance, or any obligations of Declarant set forth in this Declaration, the City of New York may perform all of the necessary work at the sole cost and expense of the Declarant and shall have the right to enter onto the Subject Property and to charge said Declarant for all the actual cost of such work, together with actual administrative and legal fees incurred in the collection thereof. Such actual costs shall include, but not be limited to, payments by the City of New York to any lawyers, consultants, contractors, painters, engineers,

architects and skilled artisans required to be hired to perform or supervise such work. To the extent such actual costs are expended by the City of New York, the LPC shall have a lien on the Subject Premises as if a lien had been filed, perfected and enforced for materials and labor under Article 2 of the Lien Law of the State of New York. Notwithstanding the foregoing, in the event that the Designated Structure is converted to a condominium, Declarant's right to notice and cure provided in this subsection shall apply only to the condominium board and to any owner of space occupied by retail uses in the Designated Structure; provided that the LPC has received notice by said parties in accordance with Section 6.2.

In the event that the Designated Structure is converted to a condominium in accordance with Article 9B of the New York State Real Property Law ("RPL"), the condominium board ("Board") shall have the responsibility to carry out all of Declarant's obligations and the authority to exercise all of Declarant's rights under this Declaration and upon such assumption, White Street, LLC by Vertex Realty Group, LLC as Agent shall be released from its liability thereunder.

The following provisions of this Article 3 shall be operative only in the event that the Board is formed as described in this Section 3.1.

. The Board shall require that each owner of a condominium unit (the "Unit Owner") appoint the Board as his Attorney-in-Fact with respect to modification, amendment, or cancellation of the Declaration.

Every deed conveying title to, or a partial interest in, the Subject Premises, every lease of all or substantially all of the Subject Premises, shall contain a recital that the grantee is bound by the terms of the Condominium Declaration and By-laws which shall incorporate an obligation by the Board to comply with the provisions of Article 3 of this Declaration. In addition, every deed, lease, the offering plan, and by-laws shall include the following language: This building is obligated by a restrictive declaration to be maintained in a sound, first-class condition in perpetuity. This obligation includes a thorough inspection of the building every five years and the preparation of an existing conditions report that shall be submitted to the Landmarks Preservation Commission. All work identified in the existing conditions report as necessary to maintain this building in a sound, first-class condition must be expeditiously undertaken.

This Declaration shall have no force and effect unless and until the occurrence of one of the following, to be referred to as the "Effective Date": (a) the expiration of 21 days after the Special Permit has been approved if no review is undertaken by the City Council pursuant to Section 197-d of the New York City Charter or (b) final approval of the Special Permit pursuant to Section 197-d of the New York City Charter. The Declaration shall become immediately effective upon the Effective Date. If, before the Effective Date, Declarant requests or causes the application for the Special Permit to be withdrawn or abandoned, or if final action has been taken having the effect of denying the Special Permit, then, upon notice to CPC and LPC, this Declaration shall not become effective, shall be automatically canceled and shall be of no force and effect.

- a) If the Special Permit is at any time declared invalid or is otherwise voided by final judgment of any court of competent jurisdiction from which no appeal can be taken or for which no appeal has been taken within the applicable statutory period provided for such appeal, then, upon entry of said judgment or the expiration of the applicable statutory period for such entry, as the case may be, this Declaration shall be automatically canceled without further action by Declarant and shall be of no further force or effect and the CPC shall, if requested by Declarant, provide Declarant with a letter in recordable form stating that the Declaration has been so canceled and is of no further force and effect. In the event that Declarant has obtained a certificate of occupancy allowing any Special Permit Use in the Designated Structure, Declarant shall promptly, after receipt of such letter, obtain a revised certificate of occupancy from the Buildings Department reflecting the cessation of any such Special Permit Use in the Designated Structure.
- Declarant shall file and record at its sole cost and expense this Declaration in the Register's Office, indexing it against the Subject Property, immediately upon the Effective Date. Declarant shall promptly deliver to the CPC and the LPC duplicate executed originals, promptly following the Effective Date and, following recordation, a true copy of this Declaration as recorded, as certified by the Register. If Declarant fails to so record this Declaration, the City may record this Declaration, at the sole cost and expense of Declarant, who shall promptly pay to the City such costs together with fees for purchase of a reasonable number of certified copies of the recorded Declaration.

- c) Declarant acknowledges that the City is an interested party to this Declaration, and consents to enforcement by the City, administratively or at law or equity, of the restrictions, covenants, easements, obligations and agreements contained herein. Declarant also acknowledges that the remedies set forth in this Declaration are not exclusive, and that the City and any agency thereof may pursue other remedies not specifically set forth herein including, but not limited to, the seeking of a mandatory injunction compelling Declarant, its heirs, successors or assigns, to comply with any provision, whether major or minor, of this Declaration.
- d) . (a) Before any agency, department, commission or other subdivision of the City of New York institutes any proceeding or proceedings to enforce the terms or conditions of this Declaration because of any violation hereof, it shall give Declarant forty-five (45) days written notice of such alleged violation, during which period Declarant shall have the opportunity to effect a cure of such alleged violation. If Declarant commences to effect a cure during such forty-five (45) day period and proceeds diligently towards the effectuation of such cure, the aforesaid forty-five (45) day period shall be extended for so long as Declarant continues to proceed diligently with the effectuation of such cure. In the event that title to the Subject Premises, or any part thereof, shall become vested in more than one party, the right to notice and cure provided in this subsection shall apply equally to all parties with a fee interest in the Subject Property, or any part thereof, including ground lessees; provided the LPC has received notice by said parties in accordance with Section 6.2. Notwithstanding the foregoing, in the event that the Designated Structure is converted to a condominium, the right to notice and cure provided in this subsection shall apply only to the condominium board and to any owner of space occupied by retail uses in the Designated Structure; provided that the LPC has received notice by said parties in accordance with Section 6.2.
- e) (b) If Declarant fails to observe any of the terms or conditions of this Declaration, and the Declarant fails to cure such violation within the applicable grace period provided in subparagraph 4.4(a) of this Declaration, then prior to the institution by any agency or department of the City of any action, proceeding, or proceedings against Declarant in connection with such failure, a Mortgagee who has given written notice of its name and address to the CPC and the LPC shall be given thirty (30) days written notice of such alleged violation, during which period such Mortgagee shall have the opportunity to effect a

cure of such alleged violation. If such Mortgagee commences to effect a cure during such thirty (30) day period and proceeds diligently towards the effectuation of such cure, the aforesaid thirty (30) day period shall be extended for so long as such Mortgagee continues to proceed diligently with the effectuation of such cure.

- f) If after due notice as set forth in this Section 4.4, Declarant and the Mortgagee fail to cure such alleged violations, the City may exercise any and all of its rights, including those delineated in this Section and may disapprove any amendment, modification, or cancellation of this Declaration on the sole grounds that Declarant is in default of any material obligation under this Declaration.
- g) Declarant acknowledges that the restrictions, covenants, easements, obligations and agreements in this Declaration, which are an integral part of the Special Permit, will protect the value and desirability of the Subject Premises as well as benefit the City of New York and all property owners within a one-half mile radius of the Subject Premises. Those restrictions, covenants, easements, obligations and agreements shall be covenants running with the land, and shall bind Declarant and its successors, legal representatives, and assigns.
- h) Declarant represents and warrants that there are no enforceable restrictions of record on the use of the Subject Property or the Designated Structure, nor any present or presently existing future estate or interests in the Subject Property or the Designated Structure, nor any lien, obligation, enforceable covenant, limitation or encumbrance of any kind which precludes, directly or indirectly, imposition on the Subject Premises of the restrictions, covenants, easements and obligations of this Declaration.
- i) . This Declaration shall be governed by and construed in accordance with the laws of the State of New York.
- j) . In the event that any provision of this Declaration shall be deemed, decreed, adjudged or determined to be invalid or unlawful by a court of competent jurisdiction and the judgment of such court shall be upheld on final appeal, or the time for further review of such judgment on appeal or by other proceeding has lapsed, such provision shall be severable, and the remainder of this Declaration shall continue to be of full force and effect.
- k) Declarant covenants to include a copy of this Declaration as part of any application submitted to

the LPC, CPC, Buildings Department, Board of Standards and Appeals ("BSA"), New York State Attorney General (in the event of a proposed conversion of the Designated Structure to condominium ownership) or any agency succeeding to their respective jurisdictions. The restrictions and obligations contained herein are a condition of any permit or Certificate of Occupancy to be issued by the Building Department and Declarant will take all reasonable steps to ensure that they are so listed. Failure to carry out such obligation beyond any applicable grace period shall constitute sufficient cause for the Commissioner of the Buildings Department to revoke any building permit issued pursuant to the Special Permit or to apply to the BSA or to a court of competent jurisdiction for revocation of the Certificate of Occupancy or any permit issued by the Buildings Department.

- (a) Declarant shall be liable in the performance of any term, provision or covenant in this Declaration, subject to the following sentences and subject to Section 4.12 below. Notwithstanding anything to the contrary contained in this Declaration, the City and any other party or person relying on the Declaration will look solely to the fee estate and interest of Declarant in the Subject Property, on an <u>in rem</u> basis only, for the collection of any money judgment recovered against Declarant, and no other property of Declarant shall be subject to levy, execution or other enforcement procedure for the satisfaction of the remedies of the City or any other person or entity with respect to this Declaration, and Declarant shall have no personal liability under this Declaration. The liability of any Unit Owner under this Declaration shall be limited to the amount of such Unit Owner's prorated share, based on such Unit Owner's interest in the common elements of the Condominium, of the costs of compliance with this Declaration. For the purposes of this Section 4.10, "Declarant" shall mean "Declarant" as defined in Article I hereof, as well as any principals, disclosed or undisclosed, partners (including Pyrites, Inc., the general partner of Declarant), affiliates, officers, employees, shareholders or directors of Declarant.
- m) (b) The restrictions, covenants and agreements set forth in this Declaration shall be binding upon the Declarant and any successor-in-interest only for the period during which Declarant and any successor-in-interest is the holder of a fee interest in or is a party-in-interest of the Subject Premises and only to the extent of such fee interest or the interest rendering Declarant a party-in-interest. At such time as the named Declarant has no further fee interest in the Subject Premises and is no longer a party-in-

interest of the Subject Premises, Declarant's obligations and liability with respect to this Declaration shall wholly cease and terminate from and after the conveyance of Declarant's interest and Declarant's successors-in-interest in the Subject Premises by acceptance of such conveyance automatically shall be deemed to assume Declarant's obligations and liabilities here-under to the extent of such successor-in-interest's interest.

- n) Declarant shall cause every individual, business organization or other entity that between the date hereof and the date of recordation of this Declaration becomes a Party-in-Interest to the Subject Property, to execute this Declaration or to subordinate such interest to the Declaration and waive its right to execution. Any mortgage or other lien encumbering the Subject Property after the recording date of this Declaration shall be subject and subordinate hereto.
- o) . Nothing contained herein shall be construed as requiring the consent of the CPC, the LPC, the City, any agency thereof or any other person or entity to any sale, transfer, conveyance, mortgage, lease or assignment of any interest in the Subject Property or the Designated Structure.
- Except as provided in paragraph 4.1 above, this Declaration may be amended or canceled only upon application by LPC on behalf of Declarant and only with the express written approval of the CPC and of the City Council, but only in the event that the City Council reviewed the Special Permit pursuant to Section 197-d, and no other approval or consent shall be required from any public body, private person or legal entity of any kind; provided, however, that no such approval shall be required in the case of any cancellation pursuant to paragraph 5.4.
- . The Chairperson of the LPC and the Chairperson of the CPC may, by express written consent, administratively approve modifications to the Declaration that the CPC has determined to be minor. Such minor modifications shall not be deemed amendments requiring the approval of the CPC, the LPC, the City Council or any other agency or department of the City of New York.
- . Any modification, amendment or cancellation of this Declaration, except pursuant to paragraph 5.4, shall be executed and recorded in the same manner as this Declaration. Following any modification, amendment or cancellation, Declarant shall immediately record it and provide one executed and certified true copy

thereof to each of the CPC and the LPC and upon failure to so record, permit its recording by the CPC or the LPC at the cost and expense of Declarant.

- . In the event that Declarant does not use the Special Permit Restricted Space pursuant to the Special Permit, Declarant may surrender the Special Permit to the CPC and proceed with any use permitted by the Zoning Resolution and in accordance with the Landmarks Preservation Law as if such Special Permit had not been granted. This Declaration shall be rendered null and void upon recordation of an instrument filed by Declarant discharging it of record, with copies to LPC and CPC, the recordation of which instrument shall constitute a waiver of the right to use the Subject Property pursuant to the Special Permit.
- . Any and all exhibits, appendices, or attachments referred to herein are hereby incorporated fully and made an integral part of this Declaration by reference.
- . All notices, demands, requests, consents, waivers, approvals and other communications which may be or are permitted, desirable or required to be given, served or deemed to have been given or sent hereunder shall be in writing and shall be sent if intended for Declarant to 51 White Street, LLC_by Vertex Realty Group, LLC, as Agent, 299 Broadway, Sujte 1809, New Yor, NY 10007 if intended for the CPC, to the CPC at 120 Broadway, 31st floor (or then-official address), Att: Chairperson, if intended for the LPC, to the LPC at 1 Centre Street, 9th Floor (or then-official address), Att: Chairperson and (d) if intended for the City Council, to the City Council at the Office of the Speaker, City Council, City Hall, New York, New York 10007. Declarant, or its representatives, by notice given as provided in this paragraph 6.2, may change any address for the purposes of this Declaration. Each notice, demand, request, consent, approval or other communication shall be either sent by registered or certified mail, postage prepaid, or delivered by hand, and shall be deemed sufficiently given, served or sent for all purposes hereunder five (5) business days after it shall be mailed, or, if delivered by hand, when actually received.
- i) Provided that Declarant is found by a court of competent jurisdiction to have been in default in the performance of its obligations under this Declaration after having received written notice of such default and opportunity to cure as provided above, and such finding is upheld on final appeal, or the time

for further review of such finding on appeal or by other proceeding has lapsed, Declarant shall indemnify and hold harmless the City from and against all of its reasonable legal and administrative expenses arising out of or in connection with the City's enforcement of Declarant's obligations under this Declaration.

IN WITNESS WHEREOF, Declarant has executed this Declaration as of the day and year first above written.

51 White Street LLC, by Vertex Realty Group, LLC, as Agent

By: <u>David Friedman</u>

By: Owner

STATE OF NEW YORK)	
) ss.:	
COUNTY OF)	
On the day of, 199_, before	ž ,
known, who being by me duly sworn, did depose and say that S	/HE resides at
that <u>S/HE</u> is the <u>POSITION</u> ;	of the ORGANIZATION TYPE described
in and which executed the foregoing instrument; that S/HE had	
acknowledged to me that <u>S/HE</u> executed the same as the act and	• •
the use and purposes herein mentioned.	<u> </u>
the use and purposes herein mentioned.	
·	Notary Public

SCHEDULE OF EXHIBITS

Exhibit A - Metes and Bounds of Subject Property

 $\underline{Exhibit\ B} \qquad \qquad - \qquad Zoning\ Lot\ Certification$

<u>Exhibit C</u> - Certificate of Appropriateness

AIR QUALITY APPENDIX



Tempra® & Tempra® Plus Technical Specifications

Technical Data





Tested and certified by WQA against NSF/ANSI 372 for lead free compliance.

ISO 9001

Model Item Number		Tempra® 1 12 Plus 22		Tempra® 1 15 Plus 22		Tempra® 20 20 Plus 22		Tempra® 24 24 Plus 22		Tempra® 29 29 Plus³ 22		Tempra® 3 36 Plus" 2	3 6 4 232886 23426
Phase		single 50/60 Hz		single⁵ 50/60 Hz		single⁵ 50/60 Hz		single⁵ 50/60 Hz		single⁵ 50/60 Hz		single⁵ 50/60 Hz	
Voltage		240 V or 208 V		240 V or	208 V	240 V or	208 V	240 V or	208 V	240 V or	208 V	240 V or	208 V
Wattage		12 kW	9 kW	14.4 kW	10.8 kW	19.2 kW	14.4 kW	24 kW	18 kW	28.8 kW	21.6 kW	36 kW	27 kW
Amperage draw		50 A	44 A	2 x 30 A	2 x 26 A	2 x 40 A	2 x 35 A	2 x 50 A	2 x 44 A	3 x 40 A	3 x 35 A	3 x 50 A	3 x 44 A
Number & min. rec size of circuit brea	min. recommended uit breakers¹ (DP)			2 x 30 A 2 x 40 A 2 x 35		2 x 35 A	2 x 50 A		3 x 40 A	3 x 35 A	3 x 50 A		
Number of runs & min. 1 x 6/2 AWG recommended wire size ² (copper)		2 x 10/2 AV	VG	2 x 8/2 AWG 2 x 6/2 AWG		3 x 8/2 AWG		3 x 6/2 AWG					
Maximum	@ 1.50 GPM	54°F	41°F	65°F	49°F	88°F	66°F	92°F	82°F	92°F	92°F	92°F	92°F
temperature increase above	@ 2.25 GPM	36°F	27°F	43°F	37°F	58°F	44°F	73°F	54°F	87°F	66°F	92°F	82°F
ambient	@ 3.00 GPM	27°F	20°F	33°F	25°F	44°F	33°F	54°F	41°F	66°F	49°F	82°F	61°F
water temp	@ 4.50 GPM	-	-	-	-	29°F	22°F	37°F	27°F	44°F	33°F	55°F	41°F
Min. water flow to	activate unit	0.37 GPM /	1.4 l/min	0.50 GPM /	1.9 l/min	0.50 GPM / 1.9 l/min		0.50 GPM / 1.9 l/min		0.77 GPM / 2.9 l/min		0.77 GPM / 2.9 l/min	
Weight		13.5 lb / 6.	1 kg	16.1 lb / 7.	3 kg	16.1 lb / 7.	3 kg	16.1 lb / 7.3 kg		19.0 lb / 8.6 kg		19.0 lb / 8.6 kg	
Nominal water vol	ume	0.13 gal / ().5 l	0.26 gal / 1.0 l 0.26 gal / 1.0		.0 l	0.26 gal / 1.0 l		0.39 gal / 1.5 l		0.39 gal / 1.5 l		
Max. inlet water to	mperature	131°F / 55°	,C										
Dimensions		WIDTH 165/8"/42.0 cm x HEIGHT 141/2"/36.9 c				cm x DEPTH 4 ⁵ /8″ / 11.7 cm							
Working pressure		150 PSI / 10	D BAR										
Tested to pressure		300 PSI / 20	0 BAR										
Water connections		3/4" NPT											

¹ This is our recommendation for overcurrent protection sized at 100% of load. Check local codes for compliance if necessary. Tankless water heaters are considered a non-continuous load.

Scroll for temp. rise charts.



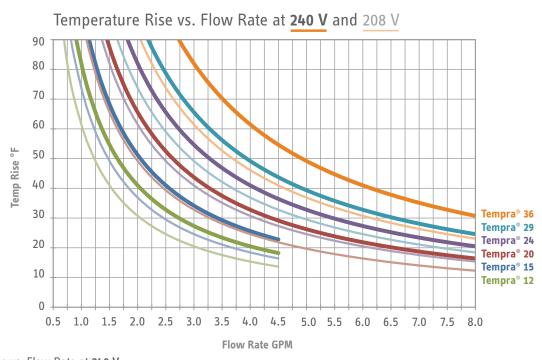
² Copper must be used. Conductors should be sized to maintain a voltage drop of less than 3% under load.

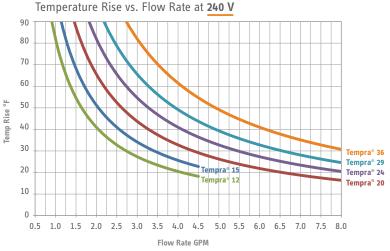
³ Requires a 200 A main service. ⁴ Requires a 300 A main service.

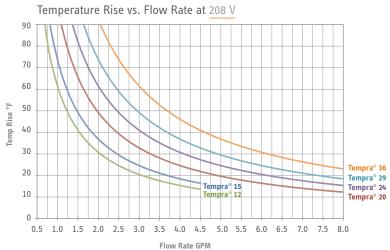
⁵ 29/29 Plus & 36/36 Plus may be wired for balanced 3-phase 208V. 15/15 Plus, 20/20 Plus, 24/24 Plus may be wired for unbalanced 3-phase 208V.

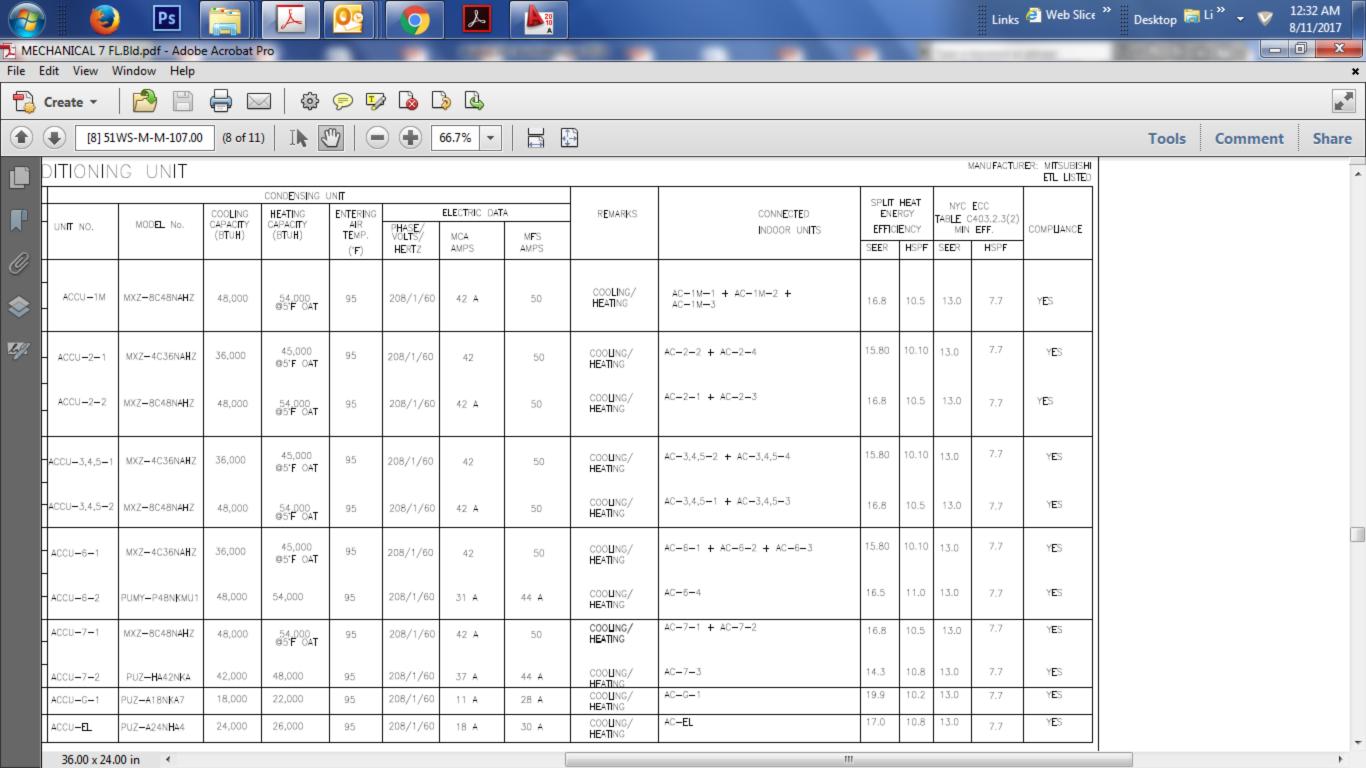


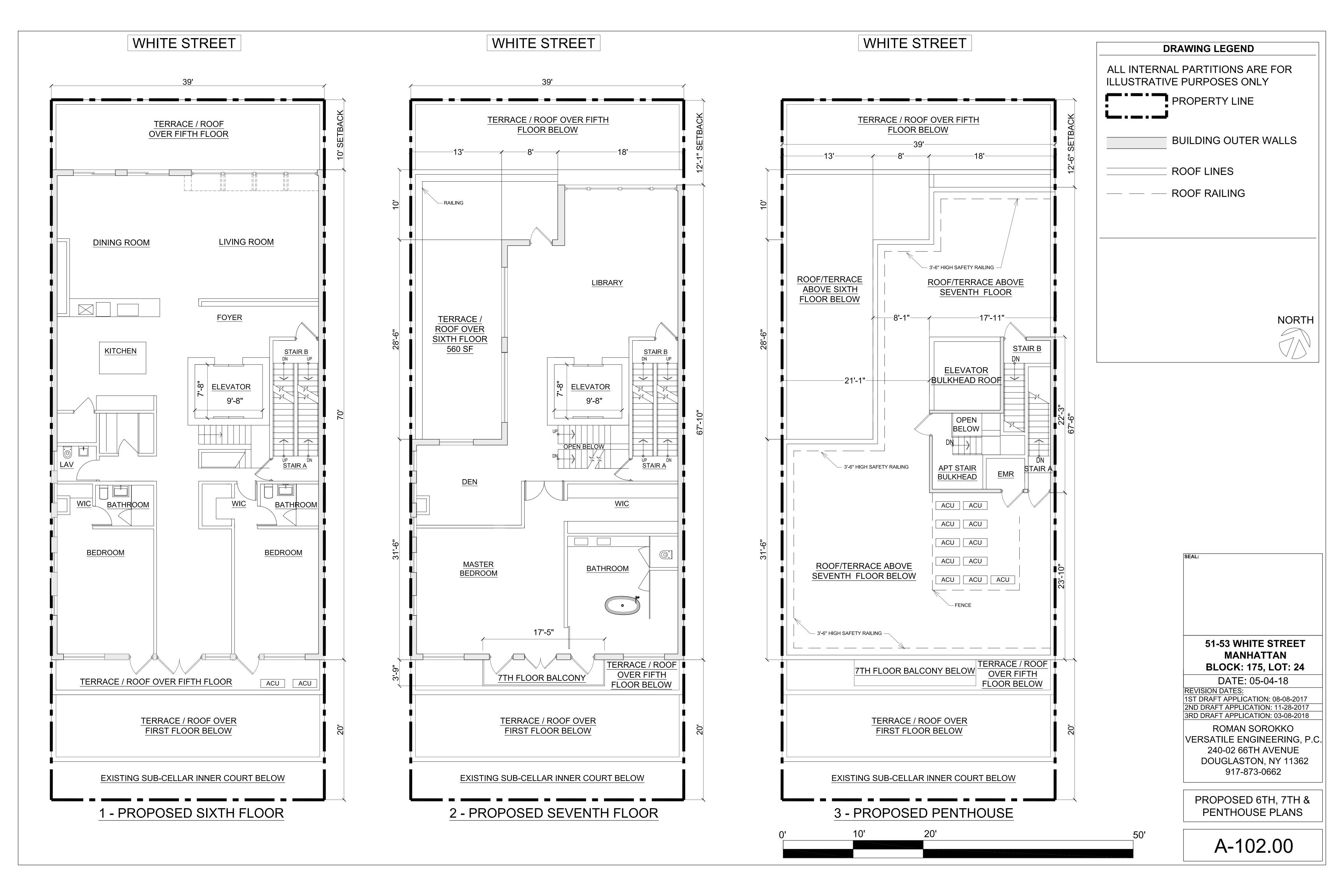
Tempra® & Tempra® Plus Technical Specifications













THE CITY OF NEW YORK DEPARTMENT OF ENVIRONMENTAL PROTECTION

Bureau of Environmental Compliance 59-17 Junction Blvd. 9th Floor, Flushing, NY 11373 Records Control (718) 595-3855

Michael Gilsenan Assistant Commissioner Environmental Compliance

BOILER REGISTRATION PERMIT

Owner Information

Application ID: CB021102

87-89 FRANKLIN STREET CO

Issued Date: 12/27/2016

709 COUNTY RT 60, GREENWICH, NY 12834

Expiration Date: 3/13/2020

Request ID: 197574

FACILITY ADDRESS:87 FRANKLIN STREET, Manhattan, NY 10013

Boiler Details:

Manufacturer	Model	# of Units	Input (BTU/Hr.)	Output (BTU/Hr.)
BURNHAM	V904	1	588000	483000

Burner Details:

Manufacturer	Model	Quality	Fuel Type	Hours/day	Days/Week	Weeks/ year	Firing Rate
CARLIN	301 CRD	The second secon	No2Fuel	4	7	30	4.2
		The set in the late of the section section is a Com-	None	And the second s		talandalarina 97 (s. 17) a til viti Najalum Mahamahalari	

Additional Equipment: None

Comments:

NA

The holder of this registration certification is responsible for the use of the equipment in accordance with all the application requirements and provisions of the New York City Air Pollution Control Code. Violations of the Air Pollution Control Code can result in the imposition of penalties by the Environmental Control Board. This Certificate must be posted in the vicinity of the designated equipment. It may not be transferred to any other equipment.

Application for renewal of this registration certificate must be submitted no later than ninety (90) days prior to the expiration date.



CB021102

R. Radhakrishnan, P.E. Director of Engineering / For the Commissioner



THE CITY OF NEW YORK **DEPARTMENT OF ENVIRONMENTAL PROTECTION**

Bureau of Environmental Compliance 59-17 Junction Boulevard, 9th Floor, NY 11373 Records Control (718) 595-3855

Michael Gilsenan Assistant Commissioner **Environmental Compliance**

BOILER REGISTRATION PERMIT

Owner Information

Application ID: CB057307

ELTIBE REALTY CORP

Issued Date: 2/11/2016

34 WALKER STREET, NEW YORK, NY 10013

Expiration Date: 4/24/2019

Request ID: 134220

FACILITY ADDRESS:34 WALKER STREET, Manhattan, NY 10013

Boiler Details:

Manufacturer	Model	# of Units	Input (BTU/Hr.)	Output (BTU/Hr.)
BURNHAM	V-906	1	980000	808000

Burner Details:

Manufacturer	Model	Quality	Fuel Type	Hours/day	Days/Week	Weeks/ year	Firing Rate
BECKETT	CF-1400	1	No2Fuel	10	7	52	7
and the second s		n (fil der volt 3:11) fan er fil er wet filder er hûserlânde gegeen het en geze	None		The second Column Reserved Reserved Reserved Advisory Adv	and Alleria his of the second state of the second	

Additional Equipment: None

Comments:

NA

The holder of this registration certification is responsible for the use of the equipment in accordance with all the application requirements and provisions of the New York City Air Pollution Control Code. Violations of the Air Pollution Control Code can result in the imposition of penalties by the Environmental Control Board. This Certificate must be posted in the vicinity of the designated equipment. It may not be transferred to any other equipment. Application for renewal of this registration certificate must be submitted no later than ninety (90) days prior to the expiration date.

T. Worrell

Engineer Name

T. Worrell

Supervisor Name

R. Radhakrishnan, P.E. Director of Engineering / For the

Commissioner



THE CITY OF NEW YORK **DEPARTMENT OF ENVIRONMENTAL PROTECTION**

Bureau of Environmental Compliance 59-17 Junction Blvd. 9th Floor, Flushing, NY 11373 Records Control (718) 595-3855

REGISTRATION

Date: 6/11/2015

Owner:

87-89 FRANKLIN STREET CO. 709 COUTY ROUTE 60 GREENWICH, NY 12834

Installation# : CB131709

Expires On: 09/24/2018 Registration : Renewal

Representative:

Fredrick Sherman 87 Franklin St NY NY 10013

Facility:

87-89 FRANKLIN STREET CO. 89 FRANKLIN STREET Manhattan, NY 10013

Boiler Details:

Manufacturer	an cria	Model		# of Units	Input (BTU/hr)	Output (BTU/hr)
BURNHAM	V-904A (NEW)	BURNHAM	V-904A (NEW)	1	588,000	483,000

Burner Details:

Manufacturer : BECKET	CF - 800 (NEW)		Model : BECKETT	CF - 800 (NEW)	
	Fuel Type	Firing Rate(GPH/CFH)	Hours Per Day	Days Per Week	Weeks Per Year
Primary Fuel	#2	4	3	7	32

Additional Equipment:

Registration

The holder of this registration certificate is responsible for the use of the equipment in accordance with all the applicable requirements and provisions of the New York City Air Pollution Control Code. Violations of the Air Pollution Control Code can result in the imposition of penalties by the Environmental Control Board. This Certificate must be posted in the vicinity of the designated equipment. It may not be transferred to any other equipment.

Application for renewal of this registration certificate must be submitted no later than 180 days prior to the expiration date.

CB131709

R.Radhakrishnan, P.E.

R.R.

Director of Air Engineering



THE CITY OF NEW YORK DEPARTMENT OF ENVIRONMENTAL PROTECTION

Bureau of Environmental Compliance 59-17 Junction Blvd. 9th Floor, Flushing, NY 11373 Records Control (718) 595-3855

Michael Gilsenan Assistant Commissioner Environmental Compliance

Vincent Saplenza, P.E. Commissioner

CERTIFICATE TO OPERATE

FACILITY ADDRESS: 88 LEONARD STREET, Manhattan, NY10013

Installation #: CB195506

Issued: 2/21/2018

Expiration: 10/7/2020

Request ID: 219241

OWNER: ANDRIA PUCKETT%WATERTON RESIDENTIAL NY, LLC 225 SCHERMERHORN STREET Brooklyn NY11201

Boiler Make & Model: EASTMOND/FEDERAL - FST - 300

Maximum Boiler Heat Input: 12.6 million BTU/hr.

Burner Make & Model: GORDON PIATT - F16-GO-75

Fuel Type 1: Natural Gas

Fuel Type 2: None

Number of Boiler(s): 2

Gross Output Rating: 10.04 million BTU/hr.

Number of burners: 2

Maximum Fuel Delivery Rate: 12600 CFH

Maximum Fuel Delivery Rate: None

Burner Limitations:

Special Conditions:

NA

The holder of this certificate of operation is responsible for the use of the equipment in accordance with all the applicable requirements and provisions of the New York City Air Pollution Control Code. Violations of the Air Pollution Control Code can result in the imposition of penalties by the Environmental Control Board. This Certificate must be posted in the vicinity of the designated equipment. It may not be transferred to any other equipment.

Application for Renewal of this certificate of operation must be submitted no later than ninety (90) days prior to the expiration date.

CB195506

R. Radhakrishnan, P.E. Director of Engineering



Date:

Fee:

THE CITY OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Environmental Compliance
59-17 Junction Blvd. 9th Floor, Flushing, NY 11373
Records Control (718) 595-3855

AMENDMENT

Installation No.:

Expiration Date:

Request ID:

				6	10/7/2017	- 1	227054	
To the state of			Premise Add	iress			ap il sa	
290	88 LEON	IARD STREET			343 BROAD	DWAY PR	OPERTIES LI	
	Stre	et Address		e a desirence			se (if any)	
С	NA	Manhattan	40040		1007000			
Floor	Room No.	Borough	10013 Zip Code	e power-sp an	1087082	00173	0027	
		Joseph Bazini	Zip Code		BIN	Block	Lot	
formation of	Applicant:			Telephone:	: 516-502-4837	Fax:	516-502-4839	
applicant.	Email Address:	joe@baziniengineering	.com	Cell Phone:				
add and	Role of Applica	ant: Professional Engine	eer					
ormation of	Name of Owner:	ANDRIA PUCKETT%V RESIDENTIAL NY, LLC	VATERTON C	Telephone	: 718-491-3709	Fax:	c	
				Cell Phone:				
wner of the	Address:	jjackson@rosenyc.com						
wner of the equipment. THIS AMI	Address: Owner Addres ENDMENT IS	ijackson@rosenyc.com s: 225 SCHERMERHO FOR: Fuel Conver osed changes to your	RN STREET, B			in ge		
THIS AMI	Address: Owner Addres ENDMENT IS	s: 225 SCHERMERHO FOR: Fuel Conver osed changes to your	RN STREET, B			lue	Action	
wner of the equipment. THIS AMI	Address: Owner Addres ENDMENT IS ary of the prop Field Na	s: 225 SCHERMERHO FOR: Fuel Conver osed changes to your	RN STREET, Boundary sion application: Old Value	rooklyn, NY11	201	Carried Santa	Action Approved	
THIS AMI	Address: Owner Addres ENDMENT IS ary of the prop Field Na Premise Primary	s: 225 SCHERMERHO FOR: Fuel Conver osed changes to your ame a.Owner.Contactinfo.	RN STREET, Boundary sion application: Old Value	rooklyn, NY11	201 Proposed Va	Carried Santa	Approved	
THIS AMI ow is a summa	Address: Owner Addres ENDMENT IS Try of the prop Field Note Premise Primary Burner.	s: 225 SCHERMERHO FOR: Fuel Conver osed changes to your ame a.Owner.Contactinfo.	RN STREET, Boundary sion application: Old Value 718 491-3709 No.2 Fuel Oil	rooklyn, NY11	Proposed Va 718-491-3709	Carried Santa	STATISTICS OF	
THIS AMI	Address: Owner Addres ENDMENT IS ary of the prop Field Na Premise Primary Burner. Burner.	s: 225 SCHERMERHO FOR: Fuel Conver osed changes to your ame a.Owner.Contactinfo. PhoneNo PrimaryFuel	RN STREET, Boundary application: Old Value 718 491-3709 No.2 Fuel Oil	rooklyn, NY11	Proposed Va 718-491-3709 Natural Gas	Carried Santa	Approved Approved	
THIS AMI	Address: Owner Addres ENDMENT IS Try of the prop Field Note Premise Primary Burner. Burner. Burner.	s: 225 SCHERMERHO FOR: Fuel Conver osed changes to your ame e.Owner.ContactInfo. PhoneNo PrimaryFuel Fuel.PriDaysPerYea	RN STREET, Boundary Str	rooklyn, NY11	Proposed Va 718-491-3709 Natural Gas 365	Carried Santa	Approved Approved Approved	
THIS AMI	Address: Owner Addres ENDMENT IS Try of the prop Field Note Primary Burner. Burner. Burner.	s: 225 SCHERMERHO FOR: Fuel Convertosed changes to your ame a.Owner.Contactinfo. PhoneNo PrimaryFuel Fuel.PriDaysPerYea Fuel.PriQuantityHour	RN STREET, Boundary Str	rooklyn, NY11	Proposed Va 718-491-3709 Natural Gas 365	Carried Santa	Approved Approved Approved Approved	
THIS AMI	Address: Owner Addres ENDMENT IS Try of the prop Field Na Premise Primary Burner. Burner. Burner.I Burner.I Burner.I	s: 225 SCHERMERHO FOR: Fuel Convertosed changes to your ame a.Owner.ContactInfo. PhoneNo PrimaryFuel Fuel.PriDaysPerYea Fuel.PriQuantityHour Fuel.PriQuantityYear	RN STREET, Bosion application: Old Value 718 491-3709 No.2 Fuel Oil 125 180 67500	rooklyn, NY11	Proposed Va 718-491-3709 Natural Gas 365 12600 13797000	Carried Santa	Approved Approved Approved Approved Approved	
THIS AMI	Address: Owner Addres ENDMENT IS Try of the prop Field Note Primary Burner. Burner. Burner. Burner. Burner. Burner. Burner. Burner.	s: 225 SCHERMERHO FOR: Fuel Convertosed changes to your ame e.Owner.ContactInfo. PhoneNo PrimaryFuel Fuel.PriDaysPerYea Fuel.PriQuantityHour Fuel.PriQuantityYear MaxFuel	RN STREET, Bosion application: Old Value 718 491-3709 No.2 Fuel Oil 125 180 67500 90	rooklyn, NY11	Proposed Va 718-491-3709 Natural Gas 365 12600 13797000 12600	Carried Santa	Approved Approved Approved Approved Approved Approved Approved	



THE CITY OF NEW YORK DEPARTMENT OF ENVIRONMENTAL PROTECTION

Bureau of Environmental Compliance 59-17 Junction Blvd. 9th Floor, Flushing, NY 11373 Records Control (718) 595-3855

Michael Gilsenan Assistant Commissioner Environmental Compliance

Vincent Sapienza, P.E.

Commissioner

NOTICE OF INSTALLATION DISAPPROVAL

Owner:

ANDRIA PUCKETT%WATERTON RESIDENTIAL NY, LLC 225 SCHERMERHORN STREET BROOKLYN NY11201

Installation #:	CB195506
Date:	11/30/2017
Request ID:	219241

FACILITY ADDRESS: 88 LEONARD STREET, Manhattan, NY10013

This is to notify you that an inspection of the installation at the above premise has been disapproved for the following reason(s):

Disapproval Reason type: Application Records
Reason Description: The boiler(s) is(are) running on natural gas only
Comments of the Reviewer: Please submit an amendment for fuel conversion from 2 fuel oil and natural gas to natural gas only. The oil line needs to be cut and capped.

Please submit Amendment

along with the fee of \$65.00

Comments:

INSPECTED BY KING ON 11/29/2017, PASSED PERFORMANCE TEST.

Failure to comply with the stated requirements within sixty (60) days from the above date may result in the cancellation of the application and forfeiture of all paid fees as well as enforcement actions against the owner. A Certificate of Operation cannot be issued until all objections are resolved. To request re-inspection and to submit any forms, affidavits and amendments (where applicable), please log on to CATS.



CB195506

ENGINEERING INSPECTION WORKSHEET + TESTO DATASHEET

Inspector:	KING	Insp Date:	11/29/2017	Trio	nnial
Application #:	CB195506	Address:	88 LEONARD STREET	Boro:	MANH

BOILER(S)	Number of :	2		Y/N?	Found in inspection:
Make/Model	EASTM	OND/FEDERAL FS	T - 300	YES	CHECKED
Lead Lag Sys			300 mm 4	123	CHECKED
BURNER(S)	Number of:	2		Y/N?	Found in inspection:
Make/Model	GORE	ON PIATT F16-G	0-75	YES	CHECKED
Fuel Type (1)	#2	Fuel Type (2)	NG	YES	
Firing Rate	600 ST	90	NO	YES	oil is no longer in use. CHECKED
Burner Limitations	PSIG. LOW	IOZZLE C169-WA L P = 300PSIG, HI P = 25 FIRE OIL P = 15 P RE AIR P = 13 PSIG	GH FIRE AIR SIG, LOW	YES	CHECKED
COMB CONT				Y/N?	Found in inspection:
Mod Motor		M9174C		YES	CHECKED
ir Rate Ctrl		L91A		YES	CHECKED
AIR HANDLING				Y/N?	Found in inspection:
an	Yes with	Sail Switch gree	nheck		
ouver				YES	CHECKED
aro Damper	自然来找3.6%	7 . H. 1			8 9
.O.D.R.	Clev	eland CDR AFS 95	52	YES	CHECKED
moke Alarm	Fu	el Watchman SP		YES	CHECKED
HIMNEY	ACCES OF	-986,487		Y/N?	Found in inspection:
eight		215		YES	CHECKED
No raincaps? C	leanout every	15'? Radial dista	nce OK?	YES	CHECKED
'Additional co			larm Test -		Sail Switch Test -

OK TO ISSUE CO after amendment - fuel conversion.

Establishme	nt Type:	Residential	1				
BOILER #1				BOILER #2			
Firing Rate:	Hi	Firing Rate:	LOW	Firing Rate:	Hi	FiringRate:	LOW
Fuel:	NG	Fuel:	NG	Fuel:	2	Fuel:	2
Efficiency:	see	Efficiency:	attachmetn	Efficiency:		Efficiency:	
Tout=	Tout= ΔDr/H= 0.00		0.00102	Stack Ht =			0.2193
BAOMETRIC DAM	MPER			POWER OPER	RATED DRA	FT REGULATOR	
Fully open	25	in w.c.		Normal	-0.26	in w.c.	
Fully closed		in w.c.		Full Open	-0.02	in w.c.	
Δ		in w.c.		Δ	0.24	in w.c.	

Reserve:	Adequate

		Pass	Performance Test:
0 -	< for #4 and #6 oil only	0	Smoke Bacharach #:
1			
	1		

```
testo 3.J
V1. 10
             60694184/USA
Folder
SITE
Start: 11/29/17 12:23:56
  86. 9
          % EFF
 7. 99 % EFF
% Oxygen
7. 25 % CO2
54. 9 % ExAir
8 ppill corCO
32 ppill corNO
33 ppill corNOx
  79.6 °F Ambient temp
          °F T stack
 214.5
 inH20 Draft
    6 ррш СО
    23 ppm NO
24 ppm NO×
 Fuel:
               Natural gas
 02ref.:
002max:
                     3.0%
                      11.7%
 Heat transf. °F: ---- °F
      testo 340
V1. 10 60694184/USA
Folder
SITE
Start: 11/29/17 12:26:38
83. 2 % EFF
13. 28 % Oxygen
4. 28 % CO2
         % ExAir
153.6
  545 ppm cor 00
   19
        ppm corNO
   20
        ppm corNOx
        °F Ambient temp
°F T stack
80.0
241.2
---- inH2O Draft
  234 ppni C0
8 ppni N0
8 ppni N0x
Fuel:
             Natural gas
02ref. :
                      3.0%
CO2max:
                     11.7%
Heat transf. °F: --- °F
```

Brown, Tracy Ann

From:

Sent:

ö

Subject:

Stu Fox <sfox@americanboilercompany.com> Thursday, November 9, 2017 12:36 PM

Brown, Tracy Ann

Re: FW: CB195506 - Confirmation of Inspection Request

We have received your email and have noted the inspection date.

Thank you,

Stu Fox

VP, Sales & Marketing American Boiler Company

652 Rahway Ave.

Main Phone: 973-923-1999 Union, NJ 07083

Direct Line: 908-557-5693 Fax: 973-923-1099

Email: sfox@americanboilercompany.com

www.AmericanBoilerCompany.com

On November 9, 2017 at 12:30 PM "Brown, Tracy Ann" <tracybr@dep.nyc.gov> wrote:

PLEASE REPLY TO AKNOWLEDGE RECIEPT OF THIS EMAIL



THE CITY OF NEW YORK DEPARTMENT OF ENVIRONMENTAL PROTECTION

Bureau of Environmental Compliance 59-17 Junction Blvd. 9th Floor, Flushing, NY 11373 Records Control (718) 595-3855

SCHEDULE FOR INSPECTION

INSPECTION REQUEST

C NA Floor Room No Name of Applicant: Stu	\$963.41	CB195506		10/7/2017		Annual Control of the	
C NA Floor Room No Name of Applicant: Stu				10/7/2017		219241	
C NA Floor Room No Name of Applicant: Stu	A mark marks.	Premise Addre	SS		250	:01s;	
C NA Floor Room No Name of Applicant: Stu	EONARD STREET			343 BRO	ADWAY	PROPERTIES LLC	
Floor Room No Name of Applicant: Stu	Street Address	919		Nar	ne of P	remise (if any)	
Name of Applicant: Stu	Manhattan	10013		1087082	001	73 0027	
	. Borough	Zip Code	,	BIN	Blo	ck Lot	
	*	Information of app	licant.				
	ox ·		Telephone	э:		Fax:	
Email Address: sfox	@americanboilercomp	pany.com	Cell Phone	9 :		- stagemen	
Role of Applicant: Gen	eral User	381					
	Informati	on of the owner of	the equipm	nent.			
Name of Owner: AND RES	RIA PUCKETT%WAT	TERTON	Telephone	e: 718 491-3	709	Fax:	
Email Address: jjack	son@rosenyc.com	I fela i more	Cell Phone	э:			
Owner Address: 225 SCH	ERMERHORN STRE	ET, BROOKLYN, N	Y11201				
Informat	ion of authorized ag	ent who can be co	ntacted to	schedule an	inspe	ction.	
Name of contractor / / Superinte	Agent / Stuart Fox endent:	4	Telephone	e: 973-923-1	999	Fax: 973-923-1099	
Email A	ddress: sfox@america m	anboilercompany.co	Cell Phon	e:	14.		
Contact Address: America 652 Rahway Ave. Union, NJ 07083	n Boiler Company		,	Marin La	gê op,	1 15	
-	Origina	ı (Rene	wal	_		
I am requesting:						i i	
An Inspection at	the above referenced	address	A Re-Inspe	ection at the	above	referenced address	

My annual tune-up was conducted according to Section 2-09 of the new Engineering Criteria (Title 15 Chapter 2 of the Rules of the City of New York) on this date: 8/31/2017



THE CITY OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OF THE CITY OF NEW YORK
DEPARTMENT OF Environmental Compliance

Bureau of Environmental Compliance
59-17 Junction Blvd. 9th Floor, Flushing, NY 11373
Records Control (718) 595-3855

INSPECTION REQUEST



CB195506



THE CITY OF NEW YORK DEPARTMENT OF ENVIRONMENTAL PROTECTION

Bureau of Environmental Compliance 59-17 Junction Blvd. 9th Floor, Flushing, NY 11373 Records Control (718) 595-3855

PAYMENT RECEIPT

CO Renew

Date: 10/9/2017

Application #: CB195506

Request ID: 219241

Applicant's Name: Stu Fox

Owner Address:

ANDRIA PUCKETT%WATERTON RESIDENTIAL NY, LLC 225 SCHERMERHORN STREET, BROOKLYN, NY11201 Facility Address:

88 LEONARD STREET, BROOKLYN, NY10013

This is to inform you that the Department has received the below mentioned amount for your request submitted.

Fees Pald: \$940

10

card

CPY000966653

Mode of payment

Transaction #

Total: \$963.41

(inclusive of convenience fee of 2.49%)

CB195506

R. Rahm

R.Radhakrishnan, P.E. Director of Air Engineering

Rev 07/2015



THE CITY OF NEW YORK DEPARTMENT OF ENVIRONMENTAL PROTECTION

Bureau of Environmental Compliance 59-17 Junction Boulevard, 9th Floor Flushing, New York 11373 Records Control (718)595-3855

PERFORMANCE TEST WORKSHEET

and I	ANCE TEST	330		1		oate of Last Calibra 07/25/2017
ANNUAL PERFORMANCE TES FIRE (80 TO 110 % LOAD) A 1.2 MMBTU/HR (30 GAL/HR)	STING MUST		OTED FOR A	LL FUELS (FUE ERS EQUAL 1	L OIL AND	NG) AT HIGH EATER THAN
4.2 MMB10/// (00 G-E-//)	Test 1	Test 2	Test 3	Test 4	Test 5	Test 6
Dellas Number	1	1	2	2		
Boiler Number	100% -	low fire	100%	low fire		
Load (%)	NG	NG	NG	NG		
Fuel Type (#2, #4, NG)	NO	- 10				
Firin Rat (gph/cfh)	87.6%	88.3%	86.6%	87.0%		
Combust on Efficiency (%)		7.9%	11,9%	10 2%		
O ₂ (%)	9.4%	7.29%	5.05%	6.00%		
CO ₂ (%)	6.45%	53.9%	116.9%	84.5%		
Excess Air (%)	72.5%	16 B	188.2	195.8		
Stack Temperat ur(F)	182.5		36	6		
CO (ppm) (if available)	2	0	29	35		
NOx (ppm) (if available)	73	65	129	-		1
SOx (ppm) (if available)				1		
Smoke Bacharach #: 1. For oil tests, if Combu		1 00 6	ance test - Par	sed if < 83 perfe	ormance test	= Failed
1. For oil tests, if Combu 2. For gas tests, if Comb 3. If Smoke Bacharach # ALIFIED COMBUSTION TES Licensed Oil Bu	TER (QCT)):		al Engineer		
Licensed Maste			973) 923-1999			3) 923-1099
Licensed Maste	Company			acdenergy@		3) 923-1099
ne: Andrew Demarinis npany Name: American Boiler	Company					07083
Licensed Masterne: _Andrew Demarinis hpany Name: _American Boiler	Company		mail Address:			
Licensed Masterne: Andrew Demarinis npany Name: American Boiler tress: 652 Rahway Ave.		Apt.# / Room	mail Address	acdenergy@	gmail.com NJ State	07083 Zip

SHOULD BE PERFORMED WITHIN 3 MONTHS OF SUBMITTAL OF THE INSPECTION REQUEST. ANNUAL PERFORMANCE TEST RESULTS MUST BE INCLUDED IN THE RECORDICEPING BY THE OWNER FOR A MINIMUM OF FIVE (5) YEARS.

Protocol 08/31/2017 Location CB Combustion Type ECCE PANIS Fuel: OZref. CO2 Mex: Natural Gas 3.0 % 11.7 % Comb 182. 5 ° F 9. 4 % 2 ppi 47 ppi 87. 6 % 72. 5 % 6. 45 % 73 ppi 88. 5 ° F Combi Oxygen CO /OO/. Eff. net Excess CO2 cNOx Ambient ter NO2 addition 5.0 % Protocol 08/31/2017 Location Combustion Type ECCE PANIS Natural Gas 3.0 % 11.7 % Fuel: 02ref. CO2 Max: Contibut
190. 2 * F
7. 3 %
0 ppm
148 ppm
87. 8 %
47. 7 %
7. 62 %
195 ppm
88. 3 * F Oxygen
CO 75//
Eff. net
Excess air
CO2 cNOX

NO2 addition

Protocol 08/31/2017 14:17:48 Location Combustion Type ECCE PANIS Fuel: 02ref. CO2 Max: ustion test Combu-193. 3 * F 6. 3 % 0 ppm 163 ppm 87. 9 % 38. 3 % 8. 18 % Temp. sta Oxygen CO CO SO/ cNOx 5.0 % NO2 addition Protocol 08/31/2017 Location CB Combustion Typ ECCE PANIS Fuel: 02ref. 002 Max: Natural Gas 3.0 % 11.7 % tion test Temp. stack Oxygen CO 25% NOx 25% Eff. net Combus 192. 6 °F 4. 5 % 0 ppm 118 ppm 88. 2 % 24. 4 % 9. 19 % 128 ppm 88. 3 °F Excess air CO2 cNOx Ambient te NO2 addition Protocol 08/31/2017 14:19:04 Location CB Combustion Type 1st combustion type ECCE PANIS Natural Gas 3.0 % 11.7 % Fuel: 02ref. CO2 Max: tion test
Temp. stack
Oxygen
CO Low
NOx FIFC
Eff. net
Excess air
CO2
cNOx
Ambient temp Combo 168. 6 °F 7. 9 % 0 ppi 47 ppr 88. 3 % 53. 9 % 7. 29 % 65 ppi 88. 3 °F 5.0 % NO2 addition

Ca 195506 # 219241 10/10/17



Department Of Environmental Protection

Bureau of Environmental Compliance

Carter H. Strickland Jr Commissioner

Michael Gileenan Assistant Commissioner Environmental Compliance 59-17 Junction Blvd., Flushing, NY 11373 Records Control (718) 595-3855

Date: 1/24/2014 Time: 17:15:33

Certificate to Operate

Facility No.: 1 Y23970 Installation: CB195506 H Expires On: 10/7/2017

Owner:

PE/RA:

ANDRIA PUCKETT%WATERTON RESIDENTIAL NY, LLC 225 SCHERMERHORN STREET BROOKLYN NY 11201

Facility:

Agent:

343 BROADWAY PROPERTIES LLC 88 LEONARD STREET MANHATTAN NY 10013

Floor C

Boiler Make & Model: EASTMOND/FEDERAL FST - 300 (NEW # of Identical Units: 2

Boiler Type: 10 Source Code: A7320 Air Intake: Heat Input: 12.60x10^6 Gross BTU Rating: 10.04

Burner 1 Make & Model: GORDON PIATT F16-GO-75 (NEW) Fuel Type: 32

Burner Type: 53 # of Burners: 2

Usage: Avg. Fuel/Hr.: 180 Max Fuel/Hr.: 90 Avg. Fuel/Year: 67500 Fuel Supplier:

% By Season: Winter: Spring: Summer: Fall: Hours/Day: 3 Days/Year: 125

Burner 2 Make & Model:

Fuel Type:

Burner Type: # of Burners:

Usage: Avg. Fuel/Hr.: Max Fuel/Hr.: Avg. Fuel/Year: Fuel Supplier:

% By Season: Winter: Spring: Summer: Fall: Hours/Day: Days/Year:

Special Conditions / Limitations:

Min Boiler Water Temp: 180 -- OR -- Steam Pressure:

B.O.D.R. IS LIMITED BY: MONARCH NOZZLE C169-WA - 100 GPH. HIGH FIRE OIL P = 300 PSIG, HIGH FIRE AIR P = 25 PSIG. LOW FIRE OIL P = 15 PSIG, LOW FIRE AIR P = 13 PSIG.

Certificate of Operation

The holder of this certificate of operation is responsible for the use of the equipment in accordance with all the applicable requirements and provisions of the New York City Air Pollution Control Code. Violations of the Air Pollution Control Code can result in the imposition of penalties by the Environmental Control Board. This Certificate must be posted in the vicinity of the designated equipment. It may not be transferred to any other equipment.

Application for renewal of this certificate of operation must be submitted no later than ninety (90) days prior to the expiration date.

R. Radhakrishnan, P.E., Director of Engineering

Rev 9/2012



THE CITY OF NEW YORK DEPARTMENT OF ENVIRONMENTAL PROTECTION

Bureau of Environmental Compliance 59-17 Junction Boulevard, 9th Floor, Flushing, New York 11373 Records Control 718.595.3855

CERTIFICATE OF OPERATION APPROVAL

Michael Gilsenan Assistant Commissioner Environmental Compliance

INSTAL	LATION #:	CB1955-06H				
		1/9/2014				
ENGINEE	R NAME/#:	KE ,				
REVI	EWED BY:	PG 606	a			
1		1				
	Rema	rks (if any): [☐ Original 〔			
		No. of the last				
		Burner Lim	itations (if a	ny):		
Expiration Da	ate:					
		MONTH:	10			
		DAY:	7			
Year:	□ 2012	□ 2013	□ 2014	□ 2015	□ 2016 (2017
Fuel Type:	□ #6	□ #4	⊠ #2	NATU	RAL GAS	
, del Type.						1 /H
			- 10			10/7/14-19
	APPLICAT	ION FEE:	\$ 1880.0	o for	2 cycles	أكرال
	AMOL	INT PAID:	\$940.0	0	1	10/7/14
		NCE DUE:	\$940.0	Ō		, 11
		FOR INTER	RNAL USE ONLY			

Address:	ENGINEERING P 88 Leonard		Manhattan Date: 1-9-14
CA#	1955-06 H	/	Engineer KC
	ORMANCE TEST:	Passed	Failed
Boiler Identifica			Oil Delivery Rate: 90 gpd
			On Deavely Nate. 10 91-91
I. Perion	mance Test Preparation - Kit#		
aj	Thermometer Near Burner	M _	Pre Purge: Damper (s) Open
ы	Operating Condition Verified		Burner Fan 30 Sec. Min
이	Test Probes installed Burner On	[9] [h]	Control Damper(s) to High Fire Burner Limited at Burner Oil
-	Burner Interlocked with fan,	14	Delivery Rate
	Louvers & Dampers	m _	Boiler Room Barometric Pressure
			P. O. a. L. C. A. M.
HIGH E	TRE DATA	VIAL / SIMILE T	Boiler#1 Tested
			· (1)
1 -	Steady State	,	
10.4	Smoke Bacharach # 7 % CO.	[e]	80:4 Room Temperature *F. • 20:2 Net Boiler Outlet Gas Temp *F.
	220	[1]	ss (From Tables 1a, 1b & 1c, 20% Maximum)
_		100	
10		100000	AFT REGULATOR
	in. w.c. (Normal Operated Position) in. w.c. (Full Open Position)	_	73 F. Outside Temperature 00 C Drift (Figure 2) x 215 saintk
	Ain. w.c.	814	Height = 14-3 1 in. w.c. Minimiss
1'	V5. 47.7 27		Reserved draft
	re term at 1	BAROMETRIC	DAMPER
	Normal Position		Held Closed
т. л	case of Stack Temperature) *F		T ₃ (Base of Stack Temperature) °F.
	Roller Outlet Gas Temperature) F		T ₄ (Boiler Outlet Gas Temperature) *F.
	Outlet (T_T2) °F	•	
	Corrected Base of Stack Temperature		
Dr/H	(From Tables 3a, 3b, 3c & 3d using 1	(& T 3) Reser	ve:Adequate / Inadequate
	ALTE	RNATE DAMP	ER METHOD
	Or/H (Figure2)XStack	Height = <u>A</u> Dr	in. w.c.(available draft required as outsid temperature increases to 94° or 65° = P ₂ - P ₃)
		EN	
TIAL READIN	IGS: Damper (s) in Normal operating position(s)	77.74.70	AL READINGS: Manual Damper Closed and/or Barometric Damper Opened
	sure (P ₁) +		Pressure (P ₂)
	Outlet Gas Temp. F.		Boiler Outlet Gas Temp. F.
Boile	Room Temp. *F.		Boiler Room Temp. *F.
Net B	Soiler Outlet Gas Temp. F.		Net Boiler Outlet Gas Temp. *F.
% CC		20100	% CO ₂
	zok Loss		% Stack Loss Smoke Bacharach #
	ke Bacharach &	radequate (See	
serve:			
LOW FIR	E DATA		Boiler#1 Tested
	ווחיותותו	E. 14MM11+E	
/	D1 0 0	[6]	24/8 Boiler Outlet Gas Temperature *F.
Ø	Steady State Smoke (Bacharachs)	[6]	80,0 Room Temperature *F.
9.17	% CO,	17	61.8 Net Boiler Outlet Gas Temp. *F.
LC VIII	A		18, 15 & 1c, 20% Maximum)
	7,000	~ (1 .0111 1 autos	The state of the s
OMMENTS			
411b			
AH:gb (wo-nand	i-engineer)		
(MP.118110			

Spiked) Mark

Carter H. Strickland Jr.

Commissioner

Farall

12/16/13/18

THE CITY OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Bureau of Environmental Compliance 59-17 Junction Boulevard, 9th Floor, Flushing, New York 11373 Records Control (718) 595-3855

Michael Gilsenan Assistant Commissioner Environmental Compliance

DATE: 12/16/2013

AUTHORIZED AGENT / INSTALLER:

OWNER:

LEARDON BOILER 479 WALTON AVENUE BRONX NY, 10451 AL 88 LEONARD, LLC. 88 LEONARD LLC MANHATTAN NY, 10013

C/O ROSE ASSOCIATES

INSTALLER'S TELEPHONE#:

(718) 585-5314

INSTALLER'S FAX#:

(718) 585-5315

THIS OFFICE HAS AT YOUR REQUEST SCHEDULED AN INSPECTION FOR:

INSPECTION DATE:

Thursday, January 09, 2014

INSPECTION TIME:

1:20:00 PM

CA/CB NUMBER:

CB195506H

ADDRESS:

88 LEONARD STREET, MANHATTAN NY, 10013

PERFORMANCE TEST: Yes

THE AIR POLLUTION CONTROL CODE REQUIRES THAT THE COMBUSTION EQUIPMENT MUST BE INSTALLED IN COMPLIANCE WITH THE APROVED APPLICATION PLANS. ALL EQUIPMENT AND CONTROLS MUST BE IN PROPER WORKING ORDER AND MUST BE PREPARED TO DEMONSTRATE THIS BY SUCESSFULLY PASSING THE PERFORMANCE TEST SPECIFIED IN THIS CODE.

IN THE EVENT THAT THE INSPECTION DOES NOT RESULT IN THE ISSUANCE OF A CERTIFICATE OF OPERATION ENGINEERING WILL REFER THE MATTER TO THE ENFORCEMENT DIVISION FOR APPROPRIATE ACTION.

YOUR'S TRULY,

R. RADHAKRISHNAN, P.E. DIRECTOR OF ENGINEERING

(718) 595-3803 OR (718) 595-6517

INSTALLER'S PRE - INSPECTION REPORT AND PERFORMANCE TEST DATA (COPY ATTACHED) MUST BE SUBMITTED AT THE TIME OF INSPECTION.

עונ אא



THE CITY OF NEW YORK DEPARTMENT OF ENVIRONMENTAL PROTECTION

Bureau of Environmental Compliance

59-17 Junction Boulevard, 9th Floor, Flushing, New York 11373-5108 Resords Control (718) 595-3855

FEE ENCLOSED: \$ 940 APPLICATION #: CB 1955 OLE	
FEE ENCLOSED: \$ 940 APPLICATION #: CB 195506	
APPLICATION #: CB 1955 OLE	
APPLICATION #: CB 1955 OLE	
88 Lecuncialist Muchill	A
PREMISES ADDRESS: 00 LEONG (Borough))	
I AM REQUESTING:	
AN INSPECTION AT THE ABOVE REFERENCED ADDRESS CERTIFICATION	
A REINSPECTION AT THE ABOVE REFERENCED ADDRESS RECERTIFICATION RECERTIFICATION	
I CERTIFY THAT ALL WORK ON THE ABOVE INSTALLATION HAS BEEN COMPLETED IN ACCORDANCE WITH AN APPROVAPPLICATION, PLANS AND AMENDMENT(S). THE EQUIPMENT IS OPERATING PROPERLY AND IS READY FOR FINAL INSPECT BY DEP. I AM AWARE THAT IF THERE IS EXPOSED FRIABLE ASBESTOS IN A DAMAGED OR DETERIORATED CONDITION IN ROOMAREA WHERE THE EQUIPMENT IS LOCATED, THE INSPECTION WILL NOT BE COMPLETED AND A NOTICE DISAPPROVAL WILL BE ISSUED.	THE
IF THIS IS A REQUEST FOR A RE-INSPECTION: I CERTIFY THAT ALL DEFICIENCIES WHICH RESULTED IN THE ISSUANCE O INSTALLATION DISAPPROVAL HAVE BEEN CORRECTED AS SET FORTH BELOW:	FAN
NOTE: COMPLETE THE FOLLOWING ITEM BY ITEM. A REINSPECTION WHICH DOES NOT RESULT IN THE ISSUANCE CERTIFICATE OF OPERATION MAY SUBJECT THE APPLICATION TO CANCELLATION.	OF A
1) Low dogst cut off saitches are in walling and	
MARK PEVALOURS	
No. 01RE6217204 MARY SEYNOLDS	
Qualified in Monroe County Commission Expres February 8, 2014 Gain State of New York 6217381	
coe County	
Come February 8, 2014	
Como February 8, 2014	
Com. Pebruary 8, 2014 President	
Comp February 8, 2014	_
INSTALLER'S SIGNATURE (IF LEGALIZATION, P.E., R.A. OR OWNER'S SIGNATURE) INSTALLER'S NAME (P.E., R.A.'S NAME) Leardan Baler Wesley (7181 585-3	<u></u>
INSTALLER'S SIGNATURE (IF LEGALIZATION, P.E., R.A. OR OWNER'S SIGNATURE) INSTALLER'S NAME (P.E., R.A.'S NAME) Leardan Bule hals TELEPHONE NUMBER STREET ADDRESS 479 hu than be Brank My 14451	
INSTALLER'S SIGNATURE (IF LEGALIZATION, P.E., R.A. OR OWNER'S SIGNATURE) INSTALLER'S NAME (P.E., R.A.'S NAME) Leardan Balen Walls TELEPHONE NUMBER STREET ADDRESS 479 My Han De Brand My 14451	CODE)

(Revised 11/08)

NOTICE OF INSTALLATION DISAPPROVAL

	DATE:
	INSTALLATION #: CB 195 \$ 1611
INSTALLER	3/04
INSTRUCTION OF THE PROPERTY OF	OWNER OWNER
	88 Leonard LLC 66. Farrel
	88 Leonard St.
	New Y OYK, NY 10013
FREMISES ADDRESS: 88 Leonard.	st no
7	(Borniet)
AN INSPECTION OF THE INSTALLATION AT THE ABOVE REFEREN WHICH MUST BE CORRECTED TO COMPLY WITH THE NEW YORK WITH THE STATED REQUIRMENTS WITHIN (80) DAYS FROM THE APPLICATION AND FORFEITURE OF ALL PAID FEES AS WELL AS	E ABOVE DATE MAY RESULT IN THE CANCELLATION OF THE S ENFORCEMENT ACTION AGAINST THE OWNER.
A CERTIFICATE OF OPERATION CANNOT BE ISSUED UNTIL ALL OPLEASE COMPLETE THE AR-365 INSPECTION REQUEST ON DEP/RECORDS CONTROL, 59-17 JUNCTION BOULEVARD, 9 TM FLINEW APPLICATION IN RESPONSE TO THIS NOTICE.	THE REVERSE SIDE OF THIS MOTICE AND RETURN IT TO
1.) The power operated	drast regulators remove
in open porition, and	
reserve draft could the	is not be deminstrated.
The low draft cut- off si	witches must be tested
en reinspection.	
	have in #1 puiler (1897.
Exersive smoke ming	proceeding not numbered
Bldg-maint-personnela	processing has holled
& scheduled inspension	
4) Right with performance	- fest is region. 11t
tom A remineusin the	- mileonalo marina
P.O. D. R'S. L.D.C.O's	+ air prosing suitches
or intake ar dams me	est be demonstrated.
Resnip fee= \$ 940.	
JCE012 F	INSPECTION DATE
ENGINEER NAME/NUMBER	77-773
PAGE 1 OF 2 (See Re	verse Side) (Revised 11/08)
. OHOCCCCOI X84	430

DABECECHTI XET

Scanned with CamScanner



THE CITY OF NEW YORK DEPARTMENT OF ENVIRONMENTAL PROTECTION Bureau of Environmental Compliance

Bureau of Environmental Compliance 59-17 Junction Boulevard, 9th Floor, Flushing, New York 11373-5108

NOTICE OF INSTALLATION DISAPPROVAL

	NO HOL OF INC	OTTLE CONTRACTOR			
			DATE:	ula la la	1
		IN	STALLATION #:	B1953	1064
INSTALLER				rd LLC %	- Farrel
		\dashv		nard st.	30121101
	6		New Y or	12 4 2 /	7/3
	~~/	102	/	//	0.0
PREMISES ADDRESS:	88 Leona	rd)1.			Borough)
AN INSPECTION OF THE INS WHICH MUST BE CORRECTI WITH THE STATED REQUIR APPLICATION AND FORFEIT A CERTIFICATE OF OPERATI PLEASE COMPLETE THE A DEP/RECORDS CONTROL, 5 NEW APPLICATION IN RESP	ED TO COMPLY WITH THE MENTS WITHIN (60) DAYS FURE OF ALL PAID FEES AS TON CANNOT BE ISSUED UP TO THE MENT OF THE M	NEW YORK CITY AII FROM THE ABOVE S WELL AS ENFOR NTIL ALL OBJECTIO JEST ON THE REV	R POLLUTION CON- DATE MAY RESUL CEMENT ACTION A ONS ARE RESOLVE VERSE SIDE OF TH	TROL CODE. FAILU T IN THE CANCELI GAINST THE OWN D. TO REQUEST R HIS NOTICE AND	IRE TO COMPLY LATION OF THE NER. E-INSPECTION, RETURN IT TO
1.) The pow	er operat	ed drag	4 reg	ulators	remour
in open 1	20si sim, a	nd do	not me	idu la fe	2;
reserve di	raff could	thus n	of be a	Lemons	traked.
2)The low of	raft cut- of	y suita	hes mu	A pe to	sted
on reinspe	dim.). 1 0			
3)Excessive	mole my	nghow	e m #	1 hoiler	· (1eff.)
- 13/deg-mai	1 2	e appar	ently no	+ NUMB	
4) Ri-1010 11 á	the property	m.	7		
5-1 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	comments in	ne fes	FISTE	9101. 14	/
P.O. D.R.	's I DC	Jac y	per ope	vann	£
on intake	ar fami	must 1	o provis	ng sunt	ches
Remp.	fee= \$ 940	0.	Coom	myrate	4.
				,	
JCEO,	12	FF		10/24/12	
HOHEER NAME/NUMBER		DIVISION		INSPECTION D	ATE

AR 325

PAGE 1 OF 2 (See Reverse Side)

(Revised 11/08)

16 011 Only - Oli Lines Insulated Sup.	Secondary Air Danger Shrouded Checkerboard Floor	Positive Linkage- to Sec. Damper	COMPASSION CONTRETERS	MAIC CIMITATION	STATE OF DELIVERY STUTING BUILD BUIL	Firing Rate GPH, #011 Nake & Model	Gross Boiler Output 810/14	BOILERS Mumber		SWIN BIOGN SUPER ADONESS	16 70/24/12 INSPECTION -	OTO CALLESTA TO TENENT SHEET
can not		11W/1651		42+C	cosh- acme	P166075	1-60 lb. Yan 185	300 H M	APPI. TIME			rd st. M
CV VA	OTHER COUPLEST IN	Chimney	Draft fan	Breeching	Fan 7	Se manu	k	TWAT		1	١, ١	
# SIACK	CALL IN POLICE / NATIONAL PARTY CALL	Helght Cleannut Raincap	Hate & Hodel	-has Inside Co. profitenth	SW Fanillo	en heek	SHIKE ALASH Resole ATV Device Auto, Cut-Off	DAATI CONTROLS "Rake & Model Barometric Damoer	DE ALION COMPANY OF THE PROPERTY OF THE PROPER	SILAN OR HOLD AND A STATE OF THE STATE OF TH		HETHOO OF OIL TEMPLEATURE

Address: SYLeon	and	NCE TEST WORKSHEET
CAS:		Engineer 77
PERFORMANCE TEST:	Passed	- Efferies:
Boiler Identification #		Oil Delivery Rate:
Performance Test Preparation - Kit #		Oli Desvery Rate:
300 mm m m m m m m m m m m m m m m m m m	_	_
[b] Thermometer Near Burner Departing Condition Verified	, m	Pre Purge: Damper (s) Open
[c]Test Probes installed	, io	Burner Fan 30 Sec. Min
[d] Burner On	[h]	Control Damper(s) to High Fire Burner Limited at Burner Oil
Burner interlocked with fan,		Delivery Rate
Louvers & Dampers	m	Boiler Room Barometric Pressure
HIGH FIRE DATA		
ONDIN	VIDUAL / SIMULTA	NEOUS FIRING
[a] Steady State	(d)	Boiler Outlet Gas Temperature .
[b] Smoke Bacharach #	(e)	Room Temperature %.
G	M	Net Boiler Outlet Gas Temp *F. s (From Tables 1a, 1b & 1c, 20% Maximum)
	R OPERATED DRA	, 000
in. w.c. (Normal Operated Position) in. w.c. (Full Open Position)	62	F. Outside Temperature Drift (Figure 2) x Statck
	inni	Height = A in. w.c. Minimsel
D.O.D. P's remai	noper	Reserved draft
120-01-10	BAROMETRIC D	
Normal Position		Held Closed
T, (Base of Stack Temperature) F		() (Base of Stack Temperature) F.
T ₂ (Boiler Outliet Gas Temperature) F		(Boser Other Gas Temperature) Tr.
T , Corrected Base of Stack Temperate	ane (1°₃-Δ11) °F.	
Drift (From Tables 3a, 3b, 3c & 3d usin	gT ₁ &T ₃) Reserve	e:Adequate / Inadequate
. AL	TERNATE DAMPE	R METHOD
A Drift (Figure 2)X Sta	ck Height = <u>N</u> Dr	in. w.c.(available draft required as out temperature increases to 94° or 65° = P ₂ - P ₁)
1 4	FRIA	
INSTITUTE READINGS: Darmoer (s) in Normal operating position(L READINGS: Manual Damper Closed and/or Barometric Damper Opened
10 1 30011 25am	" /	Pressure (P ₂)
Pressure (P ₁) +ADr= Boiler Outlet Gas Terrap. *F.		トゥO Boiler Outlet Gas Temp. 年.
Poler Room Temp. F.		Boiler Room TempF.
Net Boiler Outlet Gas Temp. F.		Net Boiler Outlet Gas Temp. F.
10 000 DUDR.	1And	Net Boiler Outlet Gas Temp. F. (1) % CO. % Stack Loss 27
Smoke Bacharach # Option	moushout	
Reserve: Adequate	_ inadequate (See I	Figure 2)
1.00		
III. LOW FIRE DATA 1501/+/	1 .	1 RT- AZ 18air, 150%
/ mma#	mile: / Smill Tex	
1 / 1000 ==	161	n (14)
Streety State 20 %	[d]	Boiler Outlet Gas Temperature *F.
DI O STIDLE (BELLEVA)	[c]	Room Temperature F. Net Boiler Outlet Gas Temp. F.
c 1772 % 50,		
-/6 ' 70% Stack	Loss (From Tables	1a. 1b & 1c. 20% Maximum)
- CAMPATTE		
COMMENTS		



THE CITY OF NEW YORK DEPARTMENT OF ENVIRONMENTAL PROTECTION Bureau of Environmental Compliance 59-17 Junction Boulevard, 9th Floor, Flushing, New York 11373-5108

NOTICE OF INSTALLATION DISAPPROVAL

110	TIOL OF INCTINE	
•	INSTALL	DATE: 11 21 12 / ATION #: CB 1953 / 06/
INSTALLER	OWNER	
INSTALLER	886	conard LLC 66. Farrel
The second secon	80	Leonard St.
	- 0	W/ 0/V /// 100/3
	N	wy 012, 10 4 10013
(gumut	1	11
PREMISES ADDRESS:	Leonard St.	(Posturb)
		(Borough)
WHICH MUST BE CORRECTED TO COMP WITH THE STATED REQUIRMENTS WIT APPLICATION AND FORFEITURE OF ALI	HIN (60) DAYS FROM THE ABOVE DATE L PAID FEES AS WELL AS ENFORCEMEN	
	TION BOULEVARD, 9 TH FLOOR, FLUSHIN	E RESOLVED. TO REQUEST RE-INSPECTION, SIDE OF THIS NOTICE AND RETURN IT TO G, NEW YORK 11373-5108. DO NOT SUBMIT A
() -/	- 1- 1 dra VI	reaulators remain
1.) The power of	perateg a last	1 / / / / / / / / / / / / / / / / / / /
in open posio	sim, and do no	I modulate;
reserve draft	could thus not	he deminstratelo
2) The low draft	cut-off switche	2 1 / /
on reinspection	the Start of the S	11:11 (10/1)
B. Exceptive 5 mol	re mhigh fire	on #1 hover (1887.)
alda maint	ressunnel apparent	ly not nutitied
15/00-110-1	Dachachin	/
& schedille	(VI) perfivit	exact at
4) Right with pe	romance fest 1	sreald. At
by A remin	eisin the proper	roperation of
1) 1/0 D 1/5 /	De ale + pin	mine suffiches
1-0- D. K. J. L.	1 the	disconsiderated.
on make an	dams must be	ourning -
Penip fee=	\$ 940.	2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1
The state of the s		1 1
17	ET	10/24/12
JCE012	DIVISION	INSPECTION DATE
NGINEER NAME/NUMBER	Dividioit	Strongs There
27.77.95	PAGE 1 OF 2 (See Reverse Side)	(Revised 11/08)
325 A Passinally	PAGE 1 OF 2 (GES MOTORS GIVE)	Service of the servic
100		
ENGINEER NAME/NUMBER	DIVISION	INSPECTION DATE
ENGINEER MAILE ITO.	4	4400
AR 325	PAGE 1 OF 2 (See Reverse Side)	(Revised 11/08)

** Transmit Conf.Report **

P.1 DEP

Fax 7185953846

Oct 6 2013 09:27pm

Fax/Phone Number	Mode	Start	Time	Page	Result	Note
917185855315	Normal	06:09:26pm	0'57"	1	0 K	



THE CITY OF NEW YORK

DEPARTMENT OF ENVIRONMENTAL PROTECTION

Bureau of Environmental Compliancs

59-17 Junction Boulevard, 9th Floor, Flushing, New York 11373-5108

	59-17 Junction Boulevard, 9	th Floor, Flushing, New	YORK 113/3-5108	
	NOTICE OF INST	ALLATION DISAP	PROVAL	
•			DATE:	53/064
INSTALLER		OWNER	conard W	166. Farrel
		85	Leonard	151.
	88 Leona	rd St	1	M
PREMISES ADDRESS			•	(Borough)
WHICH MUST BE CORF WITH THE STATED RE APPLICATION AND FO	IE INSTALLATION AT THE ABOVE F RECTED TO COMPLY WITH THE NE QUIRMENTS <u>WITHIN (60) DAYS</u> F RFEITURE OF ALL PAID FEES AS	ROM THE ABOVE DATE WELL AS ENFORCEME	MAY RESULT IN THE NT ACTION AGAINST	CANCELLATION OF THE THE OWNER.
PLEASE COMPLETE T	ERATION CANNOT BE ISSUED UN THE AR-365 INSPECTION REQUE ROL, 59-17 JUNCTION BOULEVAR RESPONSE TO THIS NOTICE.	TIL ALL OBJECTIONS AF IST ON THE REVERSE ID, 9 TH FLOOR, FLUSHIM	RÉRESOLVED. TO RE SIDE OF THIS NOT NG, NEW YORK 11373	EQUEST RE-INSPECTION, ICE AND RETURN IT TO -5108. DO <u>NOT</u> SUBMIT A
1.) The pa	wer operate	of drast	regula	Hors remoun
in open	v porisim, a	und do no	t mode	in charled
2)The low	draft could	1	3 must	he tested
mrin	pedim.	1 4		· - 1 (1 - 1)
3.) Exceptiv	esmoke mh	igh fire	m #	buster (1897.)
- Bldg- M	raint-personn	e apparer	vy not r	whole
& sche	Luca inspeur	Toll lal	:	at
4) Kinja	anin puron mi	Meringer	13/29/01	Asing of
15 Men	D's I DC	12 to	ma : na-	suitches
20.00	Ne sar to me	musthe	demon	etmed.
Pin	10. Lee = \$ 94	0.		11-11
72 "	4			; ;
JC	E012	PF	10	124/12
ENGINEER NAME/NUM	MBER	DIVISION	IN	SPECTION DATE
		02270030 <u>2</u> 70730000000000000		

AR 325

PAGE 1 OF 2 (See Reverse Side)

(Revised 11/08)

Caswell F. Holloway Commissione

THE CITY OF NEW YORK DEPARTMENT OF ENVIRONMENTAL PROTECTION

Bureau of Environmental Compliance 59-17 Junction Boulevard, 9th Floor, Flushing, New York 11373 Records Control (718) 595-3855

Carter H. Strickland Jr. Deputy Commissioner for Sustainability

Michael Gilsenan Assistant Commissioner Environmental Compliance

DATE: 10/11/2012

AUTHORIZED AGENT / INSTALLER:

JAY REMILLARD

INSTALLER'S TELEPHONE#:

INSTALLER'S FAX#:

OWNER:

AL 88 LEONARD, LLC.

200 MADISON AVENUE, 5TH FLOOR

MANHATTAN NY, 10016 C/O ROSE ASSOCIATES

88 LEONARD ST

(212) 210-6666 NEW YORK 10013

% GARY FARRELL

THIS OFFICE HAS AT YOUR REQUEST SCHEDULED AN INSPECTION FOR:

(212) 651-7753

INSPECTION DATE:

Wednesday, October 24, 2012

INSPECTION TIME:

1:05:00 PM

CA/CB NUMBER:

CB195506H

ADDRESS:

88 LEONARD STREET, MANHATTAN NY, 10013

PERFORMANCE TEST: Yes

THE AIR POLLUTION CONTROL CODE REQUIRES THAT THE COMBUSTION EQUIPMENT MUST BE INSTALLED IN COMPLIANCE WITH THE APROVED APPLICATION PLANS. ALL EQUIPMENT AND CONTROLS MUST BE IN PROPER WORKING ORDER AND MUST BE PREPARED TO DEMONSTRATE THIS BY SUCESSFULLY PASSING THE PERFORMANCE TEST SPECIFIED IN THIS CODE.

IN THE EVENT THAT THE INSPECTION DOES NOT RESULT IN THE ISSUANCE OF A CERTIFICATE OF OPERATION ENGINEERING WILL REFER THE MATTER TO THE ENFORCEMENT DIVISION FOR APPROPRIATE ACTION.

YOUR'S TRULY.

R.A. HODGE, P.E.

DIRECTOR OF ENGINEERING

(718) 595-3807 OR (718) 595-6517

INSTALLER'S PRE - INSPECTION REPORT AND PERFORMANCE TEST DATA (COPY ATTACHED) MUST BE SUBMITTED AT THE TIME OF INSPECTION.

	- 3
MY	i
Environmental Protection	098
Protection	
- /	
CILLO	

THE CITY OF NEW YORK

DEPARTMENT OF ENVIRONMENTAL PROTECTIONS AND

Bureau of Environmental Compliance

59-17 Junction Boulevard, 9th Floor, Flushing, New York 4/373/27 -2

DATE: ENCLOSED: LICATION #:	09/19/2012 \$940.00	
ENCLOSED:	\$940.00	
	CD40EE0GH	
LICATION #:	4	
	Name of Premise (if a	iny) 27
e E	BIN Block	Lot
nepoetion	at the above refe	renced address
Spection	at the above tole	
	581	1 1 11
	1 2 4	a Maria
	41.4	100000
-	14	
	Street Street Street	The Garage
Prope	ty Mai	rages_
TITLE .		
		9
-	TELEDUOUS	NUMBER
	TELEPHONE	
(CITY)	TELEPHONE (STATE)	(ZIP CODE)
	(STATE)	(ZIP CODE)
cistes,	(STATE)	(ZIP CODE)
		TELEPHONE

FOR INFORMATION, QUESTIONS, AND INQUIRIES: Please visit our website at www.nyc.gov/dep or call 311



THE CITY OF NEW YORK DEPARTMENT OF ENVIRONMENTAL PROTECTION Bureau of Environmental Compliance 59-17 Junction Boulevard, 9th Floor, Flushing, New York 11373-5108

NOTICE OF INSTALLATION DISAPPROVAL

· 88 Leonard St	DATE: 01-13-12 INSTALLATION #: CB 1955-06H.
INSTALLER	OWNER
LEARDEN BOILER WORKS INC.	AL 88 LEONARIS LLC.
479 WALTON AVENCE	200 MADISON AVE. 5th FLOOR
BRONX, N.Y. 10451.	MANHATTAN, N.Y. 10016.
	MANT.
PREMISES ADDRESS: 88 LEONALD	(Borough)
APPLICATION AND FORFEITURE OF ALL PAID FEES AS WE A CERTIFICATE OF OPERATION CANNOT BE ISSUED UNTIL PLEASE COMPLETE THE AR-365 INSPECTION REQUEST	M THE ABOVE DATE MAY RESULT IN THE CANCELLATION OF THE ELL AS ENFORCEMENT ACTION AGAINST THE OWNER. ALL OBJECTIONS ARE RESOLVED. TO REQUEST RE-INSPECTION, ON THE REVERSE SIDE OF THIS NOTICE AND RETURN IT TO 9 TH FLOOR, FLUSHING, NEW YORK 11373-5108. DO NOT SUBMIT A
(1) INSTALLATION COULDNOT	BE FIRED ON OIL.
12) AS PER AMENDMENT DA	THED 11-25-08. SELECTOR SWITCH
TO FIRE ONE BOILTR AT	A TIME - NOT INSTALLED:
- REQUIRED.	CATION HEAT TIMER MULTIMUD
(4) FIRING RATE CONTROL	L-91 OF TAGIA COULD NOT
BE FOUND IN FIELD.	
(J) SUBMIT RETNISPECTION	FEE = \$ 940 LU
	EQUIRED UPON REINSPECTION.
Recola con la late to the late	
CP/ 6050	F.F. 01-13-12 IVISION INSPECTION DATE
NGINEER NAME/NUMBER	INSPECTION DATE



200 Madison Avenue, 5th Floor New York, NY 10016-3912 ROSENYC.COM

September 24, 2012

NYC Dept. of Environmental Protection Bureau of Environmental Compliance 59-17 Junction Boulevard, 9th Floor Flushing, NY 11373

Re:

Installation # CB195506H

88 Leonard Street

Manhattan, Blk: 173 Lot: 27

To whom it may concern:

Enclosed please find an Inspection Request Form (AR365) for the location mentioned above, as well as a check (#40408116) in the amount of \$940.00 to cover the re-inspection fee. I have also included a copy of the NOID that was issued on 1/13/12.

Should you need any additional information or documents, please feel free to contact the undersigned at (212) 328-5509.

Very truly yours,

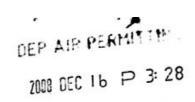
Nora Coello

Compliance Coordinator

Encl.

cc: Jay Remillard - Property Manager Mark Reynolds - Leardon Boiler Works, Inc.

istopher O. Wan	59 - 17 JUNCTION BOUT	OF ENVIRONMENTAL COMPLIAN LEVARD. 9 TH FLOOR, CORONA, NI Records Control (718) 595 - 3855	CE EW YORK 11368 Robert C. Av Deputy Comr	
	An 1,000	A M E N D M E N T (TO BE TYPED OR PRINTED)	PAGE1 OF1	
	2/19		INSTALLATIONCB1955	/06H
	1 1	BEP AIR PERMITTING	DATE: 11/28/08	
PREMISE ADD	RESS88 LEONARD	STREET PEC 16 P 3: 28	MANHATTAN	(BORO)
SWERS TO THE DI SJECT TO ALL THE REAU OF ENVIRON	SAPPROVAL SHOULD BE MADE E CONDITIONS, AGREEMENTS A WMENTAL COMPLIANCE AT THE	THE PERSON NO ITEM CAN BE CONTINI	FD OVER TO ANOTHER SHEET:	EACH ITEM
ST BE COMPLETE	ON THE SHEET ON WHICH IT .	APPEARS. ONLY THOSE ITEMS THAT AP	PEAR ABOVE THE ENDORSEME	NT AT THE
	1) DELETE REFERE WILL BE PROVIDED W BOILER CAN OPERATE		THE INSTALLATION IAT ONLY ONE	
		IS CLEVELAND #CSI.		
	3) CORRECT ITEM	#80 ON APPLICATION TO "HONE	YWELL T991A."	
N .				
	4) AN INSTALLER'S HEREWITH.	S AFFADAVIT WITH REFERENCE	, TO TIENT #1 IS TIESE	
	THE INSTALL AT	ION HAS PASSED THE PERFORM N BE RELASED AT THIS TIME.	IANCE TEST	
			P.E. OR R.A.E. OH 18 SEAL & SIGNATURE PE	WY
P.E. OR R.A.	GEORGE PEROTTO,	P.E.	SEAL OF SIGNATURE	1/2/
NAME	42-18 235 STREET	7827 (A. 1864)	State	\$ °) *
STREET ADDRESS	DOUGLASTON, NY	11363 ZIP CODE	20 U4310	S-1 HENE
CITY		/		
_ `	FOR	DEPARTMENT USE ONLY		
	100		ON	
EE ENCLOSED: 5			DATE	
MENDMENT	APPROVED	BYKE		
	DISAPPROVED	AR 355 (REV. 9/02)		
			The same of the sa	derestan a



Department of Air Resources 59-17 Junction Blvd. Corona, New York 11368 9th Floor

Dear Sirs,

Re: 88 Leonard Street, Manh.

1) I hereby certify that a selector switch has been installed so that only one boiler can operate at a time.

Peter Agliardo

SUBSCRIBED AND SWORN TO BEFORE ME DHEMONER 2008

> JOHN A. DIONISIO Notary Public, State of New York Qualified in Westchester County No. 01D14804045



THE CITY OF NEW YORK DEPARTMENT OF ENVIRONMENTAL PROTECTION 59-17 Junction Boulevard, 9th Floor, Corona, New York 11368-5107

ROBERT C. AVALTRONI Deputy Commissioner

INFORMATIONAL NOTICE

Bureau of Air Noise & Hazardou Materials

	Date: 01-20-2009
	Installation #: CB 1955-06H
George Perotto, P.E.	343 Broadway Properties LLC
42-18 235 Street	100 Washington Street
Douglaston, NY, 11363	Newark, NJ 07102
7	
Premise Address: 88 Loonard	Street,FIr.#:Boro: Manhattan
THIS IS TO NOTIFY YOU THAT YOUR AMENDMENT/MISS	DATED 11-28-08 HAS
BEEN:	- 45
APPROVED. THE AMENDMENTAL STATE OF THE AMENDMENT OF	WILL BE MADE PART OF THE ORIGINAL PLANS GREEMENTS, AND STATEMENTS CONTAINED THEREIN.
DISAPPROVED FOR THE FOLLOWING REASON	
	·
· · · · · · · · · · · · · · · · · · ·	
KE	FF
GINEER NAME/NUMBER	DIVISION
GINCER HAMEHOUSE	



THE CITY OF NEW YORK DEPARTMENT OF ENVIRONMENTAL PROTECTION Bureau of Environmental Compliance 59-17 Junction Boulevard, 9th Floor, Flushing, New York 11373-5108

NOTICE OF INSTALLATION DISAPPROVAL

	DATE: 01-13-12
*	INSTALLATION #: CB 1955-06H.
INSTALLER	OWNER
LEARDON BOILER WORKS INC.	AL 88 LEONARIS LLC.
479 WALTON AVENE	200 MADISON AVE. 5th FLOOR
BROWX, N.Y. 10451.	MANHATTAN, N.Y. 10016.
PREMISES ADDRESS: 88 LEONARD	SIREET MANH. (Borough)
WHICH MUST BE CORRECTED TO COMPLY WITH THE NEW WITH THE STATED REQUIRMENTS WITHIN (60) DAYS FROW APPLICATION AND FORFEITURE OF ALL PAID FEES AS WAS A CERTIFICATE OF OPERATION CANNOT BE ISSUED UNTIL PLEASE COMPLETE THE AR-365 INSPECTION REQUES	EFERENCED PREMISE HAS REVEALED THE FOLLOWING OBJECTIONS W YORK CITY AIR POLLUTION CONTROL CODE. FAILURE TO COMPLY OM THE ABOVE DATE MAY RESULT IN THE CANCELLATION OF THE VELL AS ENFORCEMENT ACTION AGAINST THE OWNER. IL ALL OBJECTIONS ARE RESOLVED. TO REQUEST RE-INSPECTION, IT ON THE REVERSE SIDE OF THIS NOTICE AND RETURN IT TO 1,9 TH FLOOR, FLUSHING, NEW YORK 11373-5108. DO NOT SUBMIT A
NEW APPLICATION IN RESPONSE TO THIS NOTICE.	
(1) INSTALLATION COULD NOT	BE FIRED ON OIL.
(2) AS PER AMENDMENT D	PATED 11-24-08. SELECTOR SWITCH
TO FIRE ONE BUILTR AT	A TIME - NOT INSTALLED.
(3) As PER ORIGINAL Appli	CATION KENT TIMER MULTIMOD
-REQUIRED.	
(4) FIRING RATE CONTROL	L-91 OF TA91A COULD NOT
BE FOUND IN FIELD.	
US SUBMIT REINSPECTION	FEE = \$ 940 "
	REQUIRED UPON REINSPECTION.
CP / EOSV ENGINEER NAME/NUMBER	F.F. 0(-13-12 INSPECTION DATE
AR 325 PAGE 1 OF 2 (See	



THE CITY OF NEW YORK DEPARTMENT OF ENVIRONMENTAL PROTECTION Bureau of Environmental Compliance 59-17 Junction Boulevard, 9th Floor, Flushing, New York 11373-5108

NOTICE OF INSTALLATION DISAPPROVAL

E ONE R ORIGI QUIRED G RATE	BULL	App	AT A	A 1	TIME IN H	= -1 H€N1	NOT 1 TIM	IN	MUL	TIMUD P NOT
R ORIGI	Boil		AT 6	A 1	TIME	= -0	NOT	In		TIMUD
	Birl		AT 6	A 1	TIME	= -0	NOT	In		-
- 10		^	7.4		The second	3111				(四)
12 Ame	=NDME	7	DA				- 08.	25		
					HRE					
	25. 35		-	TE RA	A- HT				- 15-	
2	LATION	LATION COL		LATION COULD NOT	2	LATION COULD NOT BE FIR	LATION COULD NOT BE FIRED	LATION COULD NOT BE FIRED ON	LATION COULD NOT BE FIRED ON OIL - AMENDMENT DATED 11-25-08. S.	LATION COULDNOT BE FIRED ON OIL. - AMENDMENT DATED 11-25-08. SELECTIONE BOILER AT A TIME -NOT INSTALL

TIME TOTAL CONTINUES	AGOII Only - Oli Lines Insulated
TIME Tresently Presently Custsting Custs	Checherboard Floor
TIME TO THE Presently THE PROPERTY OF FORCE THE READY IT ON THE SERVICE THE READY I	Mindba
THE DESCRIPTION OF SOUTH AND THE AND THE SOUTH OF SOUTH AND THE SOUTH OF SO	10 Sec. Damper
TIME STATE STATE STATE STATE STATE SEQUENTIAL S	0)
TIME OFFICE OF THE STATE OF TH	CAN . (MI-LOW
TIME TIME AND STATEMENT SHOULD ALLED WILLIAMS Find Grass Area (sq. in) Met Area Cor Fon/Mot. Louver Holorized Find Fon/Mot. Louver Holorized Foresching Inside Dien. CARNELL ALASH Freeching Inside Dien.	Do-Off
TIME TIME TOTAL TOTA	
TIME TIME AND THE PRESENT OF THE SAME AND THE SAME FREE SAME SHOUL ALABM SHOUL ALABM AND THE SAME A Model SHOUL ALABM AND THE SAME AND THE SAME AND THE SAME AND THE SAME AND THE SAME AND THE SAME AND THE SAME AND THE SAME AND TH	
Cataling Danie Could September	morech cl
Cristing DANT COMINGS LIKENSH TORTO Cristing DANT COMINGS	DECLAMA
Cristing DANT CONTINUES Cristing DANT CONTINUES CRAYITY OF FORCED AUTO TEM-, PRESSURE DEPLICA MATER SEQUENTIAL SEQUENTIAL ACCORDANCE A Model FINE Mesh Auto, Cut-Off Fire Mesh Mest Area (sq. ln) Mest Area Oucl. Length Mest Area Oucl. Length	THOUSE THE STATE OF THE STATE O
Presently Cutsting DAY II TO THE PROCESSURE Cutsting DAY I CONTROLS Sequential Sequential Fitto Vibilitation Grass Area (19, 10) Mo Control of the process Auto, Cut-Off Fire teams Research of the process Auto, Cut-Off Fire teams Research of the process R	Liner land
Cristing DANTI CONTINUES Sequential Fresently Cristing DANTI CONTINUES AUTO TEM- /PRESSURE DEVICE-BOILER MATER FIRE & Model Auto-Cut-Off Sequential Auto-Cut-Off Sequential Auto-Cut-Off Sequential Auto-Cut-Off A	Make & Model
INE Presently DAVI CONIDUS SEQUENTIAL PRICESSURE OF 1 bs Sequential - Pristing DAVI CONIDUS Sequential - Pristing DAVI CONIDUS SEQUENTIAL - PRISTING OF 1 bs Sequential - Pristing DAVI CONIDUS SEQUENTIAL - Pristing DAVI CONICUS SEQUENTIAL - Pristing SEQUENTIAL - P	Town Firing Rate GPH Mader
INE Presently Presently IN PRESENT AUTO TIME APPRESSING OF This Sequential - Existing DAKE CONTROLS Sequential - Filts & Model Proper AUTO TIME APPRESSING OF This Sequential - Existing DAKE CONTROLS SHOUL ALARM Remote ATV Device AVENTS	- 67
INE CANSILOR SEQUENTIAN PORCED LICENSMET FORCE OF FORCE OF THE SURE OF THE SU	Gross Boller Output BTU/re
INC GRAYITY ON FORCE GRAYITY ON FORCE OLIGENOME IN AUTO TEMP. PRESSURE OLIGENOME OF / 1 bs. The presently profit controls Sequential - Files Sequential - Files Automated Sequential - Files Sequential -	Je A Rodel
INE CRISTING DUALIT CONTROLS IN Presently Cristing DUALIT CONTROLS Cristing DUALIT CONTROLS Cristing Cristing	Number
CRAYITY DESCRIPTION OF THE STATE OF THE STAT	7.6.7
Andrews	
CHAPTER OF FORCE	NOT !
THOU IN THE TOTAL OF THE TOTAL	
Table 1	SWEET STREET
	4
	DATE 1-13-12 INSPECTION
BOTO M MINIEMANCE	CV 1822-09 H WILLIAM SK PROMOTED CO



THE CITY OF NEW YORK DEPARTMENT OF ENVIRONMENTAL PROTECTION 59-17 Junction Boulevard, 9th Floor, Corona, New York 11368-5107 Bureau Of Environmental Compliance

Records Control (718) 595 - 3855

Christopher O. Ward, Commissioner Robert C. Avaltroni Deputy Commissioner

53-064

NOTICE OF APPROVAL WORK PERMIT

DISPLAY ON PREMISES NEAR EQUIPMENT

APPLICATION CB#:

DATE MAILED:

EXPIRATION DATE:

OWNER		_	AGENT			-
343 BR	DAD WAY PROPERTIES	120	GEORGE PER	OTTO,	P.E.	
100 WA	SHINGTON STREET		42-18 235	STREE	7	
	C, N.T. 07102		DOUGLASTON	1, N.Y.	11363	
		\neg				
We are pleased to approved plans is	o notify you that your application for an returned herewith.	installa	ation or alteration permit has b	een approved	. One (1) set of	the
PREMISES ADDRESS:	88 LEONARD	S	TREET	BORO:	MANH	
BOTTER	(S) MAKE: (2) EASTMOND-	FE	DERAL (NEW)	3.0.D	·A LINE	751)
	MODEL: FST-300		, , , , , , , , , , , , , , , , , , , ,	C1694	1A-100.8	DSPA
BURNER	(5) MAKE (2) GORDON T	>II	(TT (NEW)	H. Foi	LP= 30p=	ries
	MODEL: F166075	7.1	d	H.Fder	P= 25p>	Fa
Р	UELTYPE: #2 ENG		- N	LiFai	15 12h	1
OIL/GAS DELIVE	0 0 1 0 1	0 0 C	FH	- K. F. A.	100.8 10	3/9
of this notice. The	ued pursuant to the New York City Air P is Division shall be notified in writing with d placed or will be placed in operation. d application and plans. L, Chief	hin thir	ty (30) days after completion of	of the installation shall be com	on or alteration t	that
rossii rueis coi	TIDUSUOTI			_		
INSTALLER	1 14 14	-		MSEO	87	
f.W.	SIMS	_				
101 0	TIS STREET	\perp				
W.BA	BYLON. N.Y. 11704	<i>+</i>				

PC137B - (REV. 9/02)

Spoketos Marie

12/22/11/8

** Transmit Conf. Report **

P. 1 DEP

Fax 917185953873

Dec 22 2011 11:55am

Fax/Phone Number	Mode	Start	Time	Page	Result	Note
917185855315	Normal	22:11:54am	0'26"	2	# 0 K	/



THE CITY OF NEW YORK DEPARTMENT OF ENVIRONMENTAL PROTECTION

Bureau of Environmental Compliance 59-17 Junction Boulevard, 9th Floor, Flushing, New York 11373 Records Control (718) 595-3855 Carter H. Strickland Jr. Deputy Commissioner for Sustainability

Michael Gilsenan Assistant Commissioner Environmental Compliance

DATE: 12/22/2011

AUTHORIZED AGENT / INSTALLER:

LEARDON BOILER WORKS INC. 479 WALTON AVENUE BRONX NY, 10451 JAMES MAZZO OWNER:

AL 88 LEONARD, LLC. 200 MADISON AVENUE, 5TH FLOOR MANHATTAN NY, 10016 C/O ROSE ASSOCIATES

INSTALLER'S TELEPHONE#:

(718) 585-5314

INSTALLER'S FAX#:

(718) 585-5315

THIS OFFICE HAS AT YOUR REQUEST SCHEDULED AN INSPECTION FOR:

INSPECTION DATE:

Friday, January 13, 2012

INSPECTION TIME:

1:05:00 PM

CA/CB NUMBER:

CB195506H

ADDRESS:

88 LEONARD STREET, MANHATTAN NY, 10013

PERFORMANCE TEST: Yes

Yes

THE AIR POLLUTION CONTROL CODE REQUIRES THAT THE COMBUSTION EQUIPMENT MUST BE INSTALLED IN COMPLIANCE WITH THE APROVED APPLICATION PLANS. ALL EQUIPMENT AND CONTROLS MUST BE IN PROPER WORKING ORDER AND MUST BE PREPARED TO DEMONSTRATE THIS BY SUCCESSFULLY PASSING THE PERFORMANCE TEST SPECIFIED IN THIS CODE.

IN THE EVENT THAT THE INSPECTION DOES NOT RESULT IN THE ISSUANCE OF A CERTIFICATE OF OPERATION ENGINEERING WILL REFER THE MATTER TO THE ENFORCEMENT DIVISION FOR APPROPRIATE ACTION.

YOUR'S TRULY,

R.A. HODGE, P.E.

DIRECTOR OF ENGINEERING

(718) 595-3807 OR (718) 595-6517

allowy F.E.

INSTALLER'S PRE - INSPECTION REPORT AND PERFORMANCE TEST DATA (COPY ATTACHED) MUST BE SUBMITTED AT THE TIME OF INSPECTION.

THE CITY OF NEW YORK DEPARTMENT OF ENVIRONMENTAL PROTECTION

Bureau of Environmental Compliance 59-17 Junction Boulevard, 9th Floor, Flushing, New York 11373 Records Control (718) 595-3855

Carter H. Strickland Jr. Deputy Commissioner for Sustainability

Michael Gilsenan Assistant Commissioner Environmental Compliance

DATE: 12/22/2011

AUTHORIZED AGENT / INSTALLER:

LEARDON BOILER WORKS INC. 479 WALTON AVENUE

BRONX NY, 10451 JAMES MAZZO

OWNER:

AL 88 LEONARD, LLC.

200 MADISON AVENUE, 5TH FLOOR

MANHATTAN NY, 10016

C/O ROSE ASSOCIATES

INSTALLER'S TELEPHONE#:

(718) 585-5314

INSTALLER'S FAX#:

(718) 585-5315

THIS OFFICE HAS AT YOUR REQUEST SCHEDULED AN INSPECTION FOR:

INSPECTION DATE:

Friday, January 13, 2012

INSPECTION TIME:

1:05:00 PM

CA/CB NUMBER:

CB195506H

ADDRESS:

88 LEONARD STREET, MANHATTAN NY, 10013

PERFORMANCE TEST: Yes

THE AIR POLLUTION CONTROL CODE REQUIRES THAT THE COMBUSTION EQUIPMENT MUST BE INSTALLED IN COMPLIANCE WITH THE APROVED APPLICATION PLANS. ALL EQUIPMENT AND CONTROLS MUST BE IN PROPER WORKING ORDER AND MUST BE PREPARED TO DEMONSTRATE THIS BY SUCESSFULLY PASSING THE PERFORMANCE TEST SPECIFIED IN THIS CODE.

IN THE EVENT THAT THE INSPECTION DOES NOT RESULT IN THE ISSUANCE OF A CERTIFICATE OF OPERATION ENGINEERING WILL REFER THE MATTER TO THE ENFORCEMENT DIVISION FOR APPROPRIATE ACTION.

YOUR'S TRULY,

R.A. HODGE, P.E. DIRECTOR OF ENGINEERING

(718) 595-3807 OR (718) 595-6517

Whody P.E.

INSTALLER'S PRE - INSPECTION REPORT AND PERFORMANCE TEST DATA (COPY ATTACHED) MUST BE SUBMITTED AT THE TIME OF INSPECTION.

6 Authorized NYC Boiler Inspe	ctor	10.00
SEAL	Name Peter Caputo	10017
10	^	License No. 5260-A
LILAT MINIS	Check the appropriate type:	
Fee \$Rekeipt No	☐ Insurance Company Repre	esentative
B.E.C. Clerk	Authorized to perform low pre-	ssure inspections only:
	Master Plumber AIR PE	RMITTING ONLY
17		
(OILVI).	2011 OCT 1 1	A 11: 20
-1. MY 0 1. 1047256	Signature	Date
Fee S Retelor No. 2	The Department of Buildings!	he accompand if the
B.E.C. Clerk / VV	the inspection date. If the ren	and is not fled but the receive this form within 30 days of
7	owner shall be liable for a civil Administrative Code.	I penalty, pursuant to Section 26-125 of the
	Falsification of any statement is a	misdemanner under On II
	and is punishable by a fine, impris	sonment, or both. Bribery is a crime; a person who gives or
	solicits a bribe or gratuity is guilty	of a felony, punishable by a fine, imprisonment, or both.
7 Department of Environmenta	I D4- 41	or a reionly, purishable by a fine, imprisonment, or both.
this complete this	section.	- The state of the
Select one: Renew Registration	✓ Renew Certificate to Operate	
Installation # CB 1955 06H Expirati		Units 2 Fee Enclosed \$ 950.00
Installation is	Of Identical	
		Units Fee Enclosed _\$
Expirati	on Date # Of Identical	Units Fee Enclosed _\$
		DEP Total Fee
If Fee Exempt, check type of acceptable	(to be enter	red in Section 8, line b, below) \$950.00
Please provide contact information for the	por Real Estate \$0.00 tax bill	Verification Letter from Department of Finance
an inspection, provide access and operate	equipment to demonstrate or other	Verification Letter from Department of Finance er authorized agent who can be contacted to schedule
Contact Person (if different than listed in se Address 479 Walton Avenue	ction 3) Leardon Boiler Works, Inc.	Telephone Number (718l)585-5314
Fax Number (718) 585-5315	Apt. No.2nd Floor City Bronx	State NY ZID 10451
	E-mail Jimmy@lea	rdonboilerworks.com
been inspected by the owner/owner's agent and	O Operate for the equipment which is the sub	pject of the above referenced installation number and which has
I am aware that if there is exposed friable ashes	tos in a democrat as details as the second as details as the second as democrat as details as the second as details	nvironmental Compliance.
will not be completed and a notice of disapproval	will be issued.	in the room/area where the equipment is located, the inspection
"I hereby affirm under penalty of porius, that the	Info	
be operated in accordance with the requirements	of the Air Pollution Control Code Chapter 1	the best of my knowledge and belief and that the equipment will of Title 24, New York City Administrative Code, and appropriate
Gode and Sector 210.45 of the Penal Law."	false statements are punishable as a misder	of Title 24, New York City Administrative Code, and appropriate meanor pursuant to Section 24-190 of the Air Pollution Control
11 111/1		
MMOD INIDAN		
Owner/Representative Signature		
Plesident		Francisco Control Representation of the second
Title	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A STATE OF THE STA
10/3/2011		
Date	Service Control of the Service Control	Ext. 10 Ext. 10 Ext.
	100	P.E./ R.A. Seal & Signature
8 Fee Calculation		(Required only if filing Renewal of Certificate to Operate)
a) DOB Total Fee \$ 0	See section 4 on reverse side. Ent	ter "0" if filing only with DEP. Do not leave blank.
b) DEP Total Fee \$ 950.00	l occ account above. Elitel O II th	IIS IS NOT the year of expiration or if form is find by
c) Grand Total: \$ 950.00	modifico company. Do not leave	biank.
e, Grand Iolai: \$ 500.00	make check or money order pays	able to NYC Department of Buildings for this amount.

Submit to: Department of Buildings, 280 Broadway, 6th Floor, New York, New York 10007
Attention: CFB - Boilers

NYC Department of Buildings/NYC Department of Environmental Protection

Fill-in form available online at: http://www.nyc.gov/ntml/dob/ntml/rorms/rorms.sntml To file DOB Boiler Inspection Report: complete sections 1-6 and 8.

To file DEP Boiler Renewal Request: complete 1-3 and 7-8.

You may fulfill filing requirements for both agencies by completing the entire form.

Use this form for renewal of existing boilers only. For new boiler installations, file DEP Form APC 5-0 (>2.8mBTU) or Form APC 501 (<2.8mBTU) and DOB Form 900A, PW-1 and PW-1C.

1 Premises	Address					Special	Place Name	a·
Borough Manha	ttan Block 173	Lot(s) ²⁷	BIN 1087082		- Opeciai	- Special Flage Hame		
House No. 88	Street Nam	e Leonard Street	ZIP 10013			1 1 1 1 1 1 1 1 1		
2 Building C	Occupancy							
Multiple Dwell	ing Commercial	☐ Mixed Use ☐ Other _			Total No.	of Residentia	al Units	
		ge in owner since last filing						
Name Al 88 Lec	onard, LLC C/O Rose	Associates	Business	Phone (
Address Same		City Manhattan	StateNY	ZIP		E-mail		
Contact Person F	Rose Associates	Relationship to owner A	VAVF			Busines	s Phone (21	2)210-6666
	dison Avenue 5th Fl		StateNY	ZIP	10016	E-mail		
4 DOB Insp	ection Report	nspection completed on:			Type of	finspection	☐ Internal	
If Fee Exempt, c	heck type of acceptable	e proof Real Estate \$0.00	tax bill	□ Verifi	cation Lett	ter from Depa	artment of Fin	ance
DOB Boiler	DEP Installation Number(s)/Expiration	Boiler Make & Model	Pressure		Floor	Violations Found: "NV" for No Violation		
Number(s)	Date	Boller Make & Model	Hi/Lo	PSI	FIOOI	er	nter Description	1(s)
	#							
	Exp.							
	#							
14	Exp.							
	#							
	Exp.							
	#					4	4 47	W. Company
	Exp.							
	#							
	Exp.							
Number of boiler	s inspected	X \$30 each = \$	(DOB Tot	al Fee- tr	he enter	ed in Section	8, line a, on r	
Boilers to be inspe-	cted in accordance with re	equirements of NY State Labor Lav , Title 27, Chapter 1, Subchapters	v Section 20	14 NY Sta	te Denartm	ent of Labor Di	ules and Regul	ations 12
	urance Company							
Insurance Comp		Contact I					s Phone ()
Address		City		State	е	ZIP		
Policy Holder Na	me	Certificat	e/Policy N	0.		Expiration	n Date	-
Address		City		State	е	ZIP		
12		Carlotte and	NAME OF THE PARTY OF	A CHARLES	14145	1111	TO THE REAL PROPERTY.	1 1 Ku
2 Z Williams	udit – Inspector's Nam	HOLDER CONTRACTOR OF THE PARTY	e Number	AND THE PARTY OF	Insp	ection Date	The state of the s	nitials
E O O Viol	ation issued	Violation Found Comments	Now the	Part of	- W. Z. E. S.		是不是	
F W Audit F	Results Pas	sed D Failed	N. STORY	14 to 14	THE RES	Will was a series	Vehicle of the	THE PARTY OF THE P

NYC Department of Buildings/NYC Department of Environmental Protection

Data entry date

BO-9 (8/05) Page 1 of 2



Acting Commissioner Robert C. Avaltroni Deputy Commissioner

Department Of Environmental Protection

Bureau of Environmental Compliance

59-17 Junction Blvd., Flushing, NY 11373 Records Control (718) 595-3855

Date: 1/29/2009 Time: 14:16:53

Certificate to Operate

Facility No.: Y23970

Expires On: 10/7/2011

Installation: CB195506 H

Owner:

343 BROADWAY PROPERTIES LLC 100 WASHINGTON STREET **NEWARK NJ 07102**

11363

PE/RA:

Facility:

343 BROADWAY PROPERTIES LLC 88 LEONARD STREET MANHATTAN NY 10013

Agent:

Floor C

of Identical Units: 2 Boiler Make & Model: EASTMOND/FEDERAL FST - 300 (NEW

Boiler Type: 10 Source Code: A7320 Air Intake: Heat Input: 12.60x10^6 Gross BTU Rating: 10.04

Burner 1 Make & Model: GORDON PIATT F16-G0-75 (NEW) Fuel Type: 32

Burner Type: 53 # of Burners: 2

Usage: Avg. Fuel/Hr.: 180 Max Fuel/Hr.: 90 Avg. Fuel/Year: 67500 Fuel Supplier:

% By Season: Winter: Spring: Summer: Fall: Hours/Day: 3 Days/Year: 125

Burner 2 Make & Model: Burner Type: # of Burners:

Usage: Avg. Fuel/Hr.: Max Fuel/Hr.: Avg. Fuel/Year: Fuel Supplier:

% By Season: Winter: Spring: Summer: Fall: Hours/Day: Days/Year:

Special Conditions / Limitations:

Min Boiler Water Temp: 180 -- OR -- Steam Pressure:

30

Fuel Type:

B.O.D.R. IS LIMITED BY: MONARCH NOZZLE C169-WA - 100 GPH. HIGH FIRE OIL P = 300 PSIG, HIGH FIRE AIR P = 25 PSIG. LOW FIRE OIL P = 15 PSIG, LOW FIRE AIR P = 13 PSIG.

Certificate of Operation

The holder of this certificate of operation is responsible for the use of the equipment in accordance with all the applicable requirements and provisions of the New York City Air Pollution Control Code. Violations of the Air Pollution Control Code can result in the imposition of penalties by the Environmental Control Board. This Certificate must be posted in the vicinity of the designated equipment. It may not be transferred to any other equipment. Application for renewal of this certificate of operation must be submitted no later than ninety (90) days prior to the expiration date.

> R.A. Hodge, P.E., Director of Engineering

KE

ENGINEER NAME/NUMBER

DIVISION



THE CITY OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Environmental Compliance
59-17 Junction Boulevard, 9th Floor, Flushing, New York 11373-5108
RECORDS CONTROL - (718) 595 – 3855

Robert C. Avaitroni, Deputy Commissioner

CERTIFICATE OF OPERATION APPROVAL

INSTALLATION	#: CB 19	55-06H			
DATE INSPECTE	D: 10-07				- 21-11
ENGINEER NAME			1-		
REVIEWED B	Y:	7 1/1	Salar Per		
and the same		The same of the last		office C.O. iss	ued by KE
REMARKS (IF ANY): OR	IGINAL/TRIE	INIAI		111-0-011-	91-21-09
		re-			
- 1 % - T	0:				
	i	No.			*
BURNER LIMITATIONS (
Monarch nozzle C160	1 WA, 100 gpl	HF Oil	Dress,=30 p	sig. HF air	Prece = 25pein
Monarch nozzle C160 LF Oil press. = 15ps	ig LF a	ir press =	13psig	<i>F</i>)///	22 23 23
	J-)		T. F		
EXPIRATION DATE:	MONTH DAY:		07	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CI ONT
YEAR (CIRCLE ONE):	2008	2009	2010	2011	2012
FUEL TYPE:	#6	#4	#2	NATURA	AL GAS
FEE DUE:	APPLIC	ATION FEE:	\$		
70.	AMO	OUNT PAID:	\$		
	BAL	ANCE DUE:	\$	A MARIAN CONTRACTOR OF THE PARTY OF THE PART	3 - M
	Alty's		Page 1 state 1		
	and the same of th				

REV. 11096)

THE CITY OF NEW YORK DEPARTMENT OF ENVIRONMENTAL PROTECTION JOEL A. MIELE, SR., P.E. Commissioner



NOTICE OF INSTALLATION DISAPPROVAL

ROBERT C. AVALTRONI Deputy Commissioner

MALEY TANKS	Date: (0-	7 -8 Bureau of Air, Noise & Hazardo Materials
Date States	Application #:C	B 1855-064
343 BROADWAY PROPERTIES LIC	Fic S	IMS
100 WASHINGTON 57	(01 071	S STREET
NEWARK, NJ 07102	W. BABYLO	1001 YM W
control of topological	Alla: B	ILL GILLOW
Premise Address: St Llowand	YNCET	Boro: MASH
An inspection of the installation at the above referenced p to comply with the New York City Air Pollution Control Code from the above date may result in the cancellation of the action against the owner. A Certificate of Operation can not be issued until all objections.	e. Failure to comply with the see application and forfeiture of a	tated requirements within (60) days all paid fees as well as Enforcement at a re-inspection please complete the
Inspection Request form on the reverse side of this N Boulevard, Corona, New York 11368.	MUNICIPAL FIRST VALUE	(RG2) maked as at all hall and on the states
	OD LEAD-LOC	system HAS
NOT BUN INSTALLED.		
		DIFFERENT FROM
THE Approvis App	WATION / PLANS	
3) ITEM # 80 00 ADC		70 BG AMBNDGE
Since Tolly Instal		A HOT WATER
84516m AND L91	DOGS NOT	APPLY
9) AMGNOMENT FROM P.	6 15 Albu	uses for tup
51 INSTALLMION POSSED	Photonumes 1	CsT
MERGEN SACHABLET	3,717	SHUTAHOR CASTON
Strain.	resis.R	(2010) 2 A.C. 14 Diona Phys
w(160P)	LYMME T	10-1-08
NGINEER NAME/NUMBER	DIVISION	INSPECTION DAT

59-17 Junction Boulevard, 9th Floor, Corona, New York 11368-5107

PAGE 1 OF 2



THE CITY OF NEW YORK DEPARTMENT OF ENVIRONMENTAL PROTECTION JOEL A. MIELE, SR., P.E. Commissioner

NOTICE OF INSTALLATION DISAPPROVAL

ROBERT C. AVALTRONI Deputy Commissioner

WH I -		Date:	10-7-08	Bureau of Air, Noise & Hazar Materials
	Harris I am a market and a mark	Application #	CB 1855-	064
	343 BROADWAY PROPERTIES LLC		NOTE OF TAXABLE	
	(00 WASHINGTON 57	Fici	SIMS	
1		(01	0718 STREET	919
	10 NI 07102	W. BA	BYLON NY	11701
	-00	Alla:	BILL GILL	Lans
	se Address: So Llowand	YNGGT	14, 1, 4, 2	Boro: MASH
action	pection of the installation at the above referenced prophy with the New York City Air Pollution Control Code above date may result in the cancellation of the against the owner.	application and forfeit	ire of all paid fees as	well as Enforcement
Inspec	ificate of Operation can not be issued until all obje tion Request form on the reverse side of this No ard, Corona, New York 11368	ctions are resolved. To otice, and return to DEP	request a re-inspection Records Control Sec	n please complete the tion, 59-17 Junction
1)	101k 11500.			The state of the s
	NOT BUN INSTALLED	D LEAD-	Lac Syste	m (U)>
	Device PASCALLESS.			
2)	Smoth Alfan Tourd	IN FIELD	is Diff	bubNT From
		UNTION / PLM		7,000
		11000	-	A-1
3)	ITEM # fo ON APC	5-0 NGG	DS 70 86	Amon DE
	Sirit Tolly Install	MION IS	A HOT	WATER
	84516m AND L91	DOGS NOT	APPL/	
9)	AMENDMENT FROM P.6	- is A	Elimes . P	on tap
	ABOUG		= (3) F.	
51	INSTALLATION POSSED 1	162 formance	Test	State of Market
	5 M.S.			6 14 in
			The second secon	
	PROMINE (4)		Andrew Colors of the State of	MARKET AND
	PRINTS: 131		American de la libra	NO HOLD AR SELECTION
	10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	British Committee	191.3	The state of
		PERMIT PROPERTY	San Carlos Carlos	
	a (160P)	T.	Le la	o-J-of

THE CITY OF NEW YORK DEPARTMENT OF ENVIRONMENTAL PROTECTION

Bureau of Environmental Compliance

Burea	u of Environmental Compliant vard, 9th Floor, Flushing New vard, Control (718) 595-3855	York 11373-5108
59-17 Junction Boules	vard, 9th Floor, 118) 593-3855	DEP AIR OF

Records Control (718) 59

DEP AIR PERMIDEDITY Commissioner

Emily Lloyd, Commissioner

INSPECTION REQUEST (TO BE TYPED OR PRINTED)

2001 DEC 17 P 4: 34

FEE ENCLOSED:

00 1 5 1 1 25	T	Ţ.	A.P. N. Borough))
PREMISES ADDRESS: 88 LEONARD	3,	a francisco	Sorougii))
		A. Company of \$ 15 at 1	
I AM REQUESTING:	nress	CERT	IFICATION
AN INSPECTION AT THE ABOVE REFERENCED AL		RECE	RTIFICATION
A REINSPECTION AT THE ABOVE REFERENCED A	ADDRESS	IN ACCORDANCE	WITH AN APPROVED
I CERTIFY THAT ALL WORK ON THE ABOVE INSTALLATION HAPPLICATION, PLANS AND AMENDMENT(S). THE EQUIPMENT IS BY DEP. I AM AWARE THAT IF THERE IS EXPOSED FRIABLE AS ROOM/AREA WHERE THE EQUIPMENT IS LOCATED, THE INSTANDARD OF THE INST	AS BEEN COMPLETE	LY AND IS READY FO D OR DETERIORATE OT BE COMPLETED	ED CONDITION IN THE AND A NOTICE OF
ROOM/AREA WHERE THE EQUIPMENT IS LOCATED, DISAPPROVAL WILL BE ISSUED. IF THIS IS A REQUEST FOR A RE-INSPECTION: I CERTIFY TH. AND DISAPPROVAL HAVE BEEN CORRECTED A	THE STREET	WHICH RESULTED	IN THE ISSUANCE OF
DISAPPROVAL THE PROPERTION: I CERTIFY TH	AT ALL DEFICIENCIES	441 II.O	
AN INSTALLATION E.S.	SOCOTION WHIGH DU	_0 110 1 1	THE ISSUANCE OF A
NOTE: COMPLETE THE FOLLOWING ITEM BY ITEM. A REINS CERTIFICATE OF OPERATION MAY SUBJECT THE APPLICATION	ON TO CANCELLATION	i.	
The Artist		071	·
1.1	10 1 1515	5271	
100	HECHAL IN		A FINE
11 11 11 11 11 11 11 11 11 11 11 11 11	1		77
B.E.C. Clork	-		
B.E.C.	AMENDA		A Common
	200	The second state of	
- 12 hD 10			
file Sighards of	TIT	LE	
INSTALLER'S SIGNATURE (IF LEGALIZATION, P.E., R.A. OR OWNER'S SIGNATURE)			
INSTALLER'S NAME (P.E., R.A.'S NAME) F.W. SIMS			EPHONE NUMBER
STREET ADDRESS	TREET W	BABY LON (STATE)	(ZIP CODE)
51/2 DRANDWAY PA	ROPERTIES	LLC _	LEPHONE NUMBER
· · · · · · · · · · · · · · · · · · ·		41	
STREET ADDRESS LOD WASHINGTON 51	NEWARK (CITY)	(STATE)	07/02 (ZIP CODE)
STREET ADDRESS	(0111)	(5,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(Revised 09/26/05)

(Revised 09/26/05)

GEORGE PEROTTO, P.E.

42-18 235 STREET. DOUGLASTON, NY 11363 Architectural Engineers

(718) 746-1700 FAX (718) 746-1840

LETTER OF TRANSMITTAL

Dec 13, 2007

Dept. of Environmental Protection Bureau of Air Resources RECORDS CONTROL 59-17 Junction Blvd.- 9th Floor Corona, N.Y. 11368-5107

Re:

Boiler Insp. Request 88 Leonard St. Man CB1955/06H

We are sending you X attache	d Via Mail the following:
	REQUEST FOR CERTI. OF OPERATION
Copy of Letter	Permits Other:
ATTACHED FIND APPLICATION AND SELIPLEASE RECEIPT COPY	CATION AND CHECK FOR BOILER INSPECTION ALONG F ADDRESSED STAMPED ENVELOPE. AND RETURN IN ENVELOPE PROVIDED.
	THANK YOU
These are Transmitted as Checked	Below:
As Requested	X For Approval For Your Use
REMARKS: A Check Made Payable to NYC I	Department of Air Resources For \$ 940.00 IS ATTACHED
	ONS PLEASE DO NOT HESITATE TO CONTACT ME.
COPY TO:	SIGNED:
332/06	George Perotto, P.E.

toward and	~ MUITI-N	red lead el
56	NO LRI	the sysen
APC 5-WS REV. 12/74		1) 00 243-C
0 -	ENGINEERING INSPECTION	WORKSHEET
PREMISES: If Leonard 57	BOROUGH M	SOURCE EM. PT CB/915-26
	ECTED BY: a C	
INSTALLER: EQUIPMENT	- PRESENT/ABSENT	
BOILER(S)	INSTALLED	APPROVED
Btanl/anal M		(4) Feelent 707.300
steel/steel dim. comb. chamber dim.	L- W-	L- U- 10.0
setting height	LW-	W
checkerwork floor	^=B=	A- B-
lead-lag control, model BURNER(S)		no
HAL HAL		0160 1166
	and a constraint of the second	(21 GP F16-6075
method of limitation	morarch Clo Propios	pe
Po (12600 C/c	HI five all P=30 pm	1=25 pc/ 10l=
pre & post purge		
combustion control, type, model		20 gph or greater
-proven low fire start firing rate control, type, model	MSIA	30 gph or greater
secondary air damper	(
-posi, linkage to comb, contr 1		shrouded
-rapid disconnect linkage		yes
-connect pts. marked		yes yes
windbox(ex. burn-W.C. furnace)		yes/no
OIL IN SUCTION LINE @ 90DEG F MIN.		yes
method of maint. oil @ 90DEG F		separate pump set
3 temperature gauges		as per plans
AUXILIARY HEATER(S); CAPACITY		as per plans
		
cold oil interlock PRIMARY HEATER(S)		yes
manuf. & model number	×	
-forced/gravity		+
-steam/hot water		
-blowdown & non-contam.		yes
POWER OPERATED DRAFT REG., MODEL	000	
low draft cutoff		
pre & post purge	-	yes yes
PODR marked to show damp. pos.		yes
BAROMFTRIC DAMPER, SIZE (-bree. dia)		
ACCESS PORTS ON DUCTS & BREECH.		as per plans
TEST HOLES PROPERLY LOCATED		as per plans
PIXED VENTILATION	00 -	as per plans
fine mesh screen	for byon the weat	1/4 in, or greater
gross area X eff. =	, , , , , , , , , , , , , , , , , , , ,	
net area	areened TCB-1-1	41,2 X
fan, model	<u>`</u>	
<pre>fan/louvers interl. with burn. duct length 6 no. of bends</pre>		as per plans
FD/ID FAN, MODEL	1 12 12	PS her hrens
SMOKE ALARM, MODEL	1 Max dans.	
immed, response to #1 Ring.	Y V	yes
remote audio-visual signal	/	yes
auto 2 min. cutoff & m. reset	4	yes
THE POUR ON STACE THE B. D.	 	
OTHER EQUIP. ON STACK, IN B.R.		
OTHER EQUIP. ON STACK, IN B.R. CHIMNEY		<u> </u>
OTHER EQUIP. ON STACK, IN B.R. CHIMNEY cleanout height	22	
OTHER EQUIP. ON STACK, IN B.R. CHIMNEY cleanout height inside diameter @ outlet	22	
OTHER EQUIP. ON STACK, IN B.R. CHIMNEY cleanout height inside diameter @ outlet radial dist. above stack	2/2	oinimum-
OTHER EQUIP. ON STACK, IN B.R. CHIMNEY cleanout height inside diameter @ outlet	2/2	ninimum-

	ff Leono	0 01			ORKSHEET	
idress:	10.00		\rightarrow		Date:(0.)	1-3 t
		- (/ -		Engineer	ul	00/45
	FORMANCE TEST:		Passed/	Failed	>	
iler identif	ication #		-	Oil Delivery R	ate:	
Perf	ormance Test Preparation	- Kit#	_			
		INCOME.		-		
	Thermometer Nea Operating Conditi	ar Burner	m	Pre Pur	ge: Damper (s) Open	
	Test Probes insta		[9]		Fan 30 Sec. Min Damper(s) to High Fire	
	Burner On		[h] .	Burner	Limited at Burner Oil	
_	Burner Interlocker			Delivery		
	Louvers & Dampe	ers	m <u> </u>	Boiler R	toom Barometric Pressure	
HIG	H FIRE DATA	(INDIVIDUAL)	/SIMIII TAI	(EOUS FIRING)	***	
	- U.EU.S	Impiripod	LISIMULIA	The same of the same of		
_	Steady State Smoke Bacharact	V = 1 00	[d]		outlet Gas Temperature .	
	% CO ₂	1#	[e]		emperature °F. •	
	M.2 S.M.	25	[f]		ler Outlet Gas Temp °F.	
	ne as	20 70				
			RATED DRA	FT REGULATOR		
	in. w.c.(Normal Opera	ted Position)	_		side Temperature	
	in. w.c. (Full Open Pos Ain. w.c.	sition)			gure 2) x Stack	
4 1	Dar w.r.			Reserv	= in. w.c. Minimum	
		16				8
		BAI	ROMETRIC D	AMPER		
	Normal Position			Held Closed	per management	
	T, (Base of Stack Temper T ₂ (Boiler Outlet Gas Tem				Temperature) °F.	500
(1981)	AT at Outlet (T_T2) °F T 3 Corrected Base of Sta	ck Temperature (?	- <u>Λ</u> Τ) •F.		Sas Temperature) °F.	
(1981)		nck Temperature (7 o, 3c & 3d using T ₁	- <u>Λ</u> Τ) •F.		Adequate / Inadequate	
(1981)	T , Corrected Base of Sta	, 3c & 3d using T ₁	- <u>Λ</u> Τ) •F.	/e:	NOTE:	
(1911)	T , Corrected Base of Sta	, 3c & 3d using T;	* - ΔT) °F. & T 3) Resen	R METHOD	Adequate / Inadequate in. w.c.(available draft required	as out
(19)	T', Corrected Base of Sta Dr/H (From Tables 3a, 3b	, 3c & 3d using T;	AT) °F. & T ₃) Reserv	R METHOD	Adequate / Inadequate	as out
250	T, Corrected Base of Sta Dr/H (From Tables 3a, 3b	ALTER Stack H	* 2 - AT) °F. & T 3) Reserv NATE DAMP! eight = ADr	R METHOD	Adequate / Inadequate in. w.c.(available draft required	2 - P ₁) Vor
250	T, Corrected Base of Sta Dr/H (From Tables 3a, 3b	ALTER Stack H in rating position(s)	* 2 - AT) °F. & T 3) Reserv NATE DAMP! eight = ADr	R METHOD temper	Adequate / Inadequate in. w.c.(available draft required ature increases to 94° or 65° = P Manual Damper Closed and Barometric Damper Opened Pressure (P ₂)	2 - P ₁) Vor
NITIAL RE	T ₃ Corrected Base of Sta Dr/H (From Tables 3a, 3b	ALTER Stack H in atting position(s)	* 2 - AT) °F. & T 3) Reserv NATE DAMP! eight = ADr	R METHOD temper	Adequate / Inadequate in. w.c.(available draft required ature increases to 94° or 65° = P Manual Damper Closed and Barometric Damper Opened Pressure (P ₂) Boiler Outlet Gas Temp. °F.	2 - P ₁) Vor
e So	T ₃ Corrected Base of Sta Dr/H (From Tables 3a, 3b	ALTER Stack H in ating position(s) ADr= F.	* 2 - AT) °F. & T 3) Reserv NATE DAMP! eight = ADr	R METHOD temper	Adequate / Inadequate in. w.c.(available draft required ature increases to 94° or 65° = P Manual Damper Closed and Barometric Damper Opened Pressure (P ₂) Boiler Outlet Gas Temp. °F. Boiler Room Temp. °F.	(2 - P ₁) Vor
NITIAL RI	T ₃ Corrected Base of Sta Dr/H (From Tables 3a, 3b A Dr/H (Figure2)X EADINGS: Damper (s) in Normal oper Pressure (P ₁) + Boiler Outlet Gas Temp. F. Net Boiler Outlet Gas Temp.	ALTER Stack H in ating position(s) ADr= F.	* 2 - AT) °F. & T 3) Reserv NATE DAMP! eight = ADr	R METHOD temper	Adequate / Inadequate in. w.c.(available draft required ature increases to 94° or 65° = P Manual Damper Closed and Barometric Damper Opened Pressure (P ₂) Boiler Outlet Gas Temp. °F. Net Boiler Outlet Gas Temp. °F.	(2 - P ₁) Vor
NITIAL RI	T ₃ Corrected Base of Sta Dr/H (From Tables 3a, 3b A Dr/H (Figure2)X	Stack H ALTER Stack H in ating position(s) ADr= of.	* 2 - AT) °F. & T 3) Reserv NATE DAMP! eight = ADr	R METHOD temper	Adequate / Inadequate in. w.c.(available draft required ature increases to 94° or 65° = P Manual Damper Closed and Barometric Damper Opened Pressure (P ₂) Boiler Outlet Gas Temp. °F. Net Boiler Outlet Gas Temp. °F. Net Boiler Outlet Gas Temp. °F. Net Boiler Outlet Gas Temp. °C.	(2 - P ₁) Vor
NITIAL RI	T ₃ Corrected Base of Sta Dr/H (From Tables 3a, 3b Dr/H (From Tables 3a, 3b Dr/H (Figure2)X EADINGS: Damper (s) in Normal oper Pressure (P ₁) + Boiler Outlet Gas Temp. 9F. Net Boiler Outlet Gas Te % CO ₂ % Stack Loss	Stack H ALTER Stack H in ating position(s) ADr= of.	* 2 - AT) °F. & T 3) Reserv NATE DAMP! eight = ADr	R METHOD temper	Adequate / Inadequate in. w.c.(available draft required ature increases to 94° or 65° = P Manual Damper Closed and Barometric Damper Opened Pressure (P ₂) Boiler Outlet Gas Temp. °F. Net Boiler Outlet Gas Temp. °F.	(2 - P ₁) Vor
NITIAL RE	T ₃ Corrected Base of Sta Dr/H (From Tables 3a, 3b A Dr/H (Figure2)X	ALTER Stack H in rating position(s) ADT= F.	* 2 - AT) °F. & T 3) Reserv NATE DAMP! eight = ADr	temper	Adequate / Inadequate in. w.c.(available draft required ature increases to 94° or 65° = P Manual Damper Closed and Barometric Damper Opened Pressure (P ₂) Boiler Outlet Gas Temp. °F. Net Boiler Outlet Gas Temp. °F. Net Boiler Outlet Gas Temp. °C. % CO ₂ % Stack Loss	(2 - P ₁) Vor
NITIAL RE	T ₃ Corrected Base of Sta Dr/H (From Tables 3a, 3b Dr/H (From Tables 3a, 3b A Dr/H (Figure2)X EADINGS: Damper (s) in Normal oper Pressure (P ₁) + Boiler Outlet Gas Temp. 9F. Net Boiler Outlet Gas Te % CO ₂ % Stack Loss Smoke Bacharach #	ALTER Stack H in rating position(s) ADT= F.	*AT DAMPI *AT DAMPI eight = ADr FIN.	temper	Adequate / Inadequate in. w.c.(available draft required ature increases to 94° or 65° = P Manual Damper Closed and Barometric Damper Opened Pressure (P ₂) Boiler Outlet Gas Temp. °F. Net Boiler Outlet Gas Temp. °F. Net Boiler Outlet Gas Temp. °C. % CO ₂ % Stack Loss	(2 - P ₁) Vor
NITIAL RE	T ₃ Corrected Base of Sta Dr/H (From Tables 3a, 3b Dr/H (From Tables 3a, 3b A Dr/H (Figure2)X EADINGS: Damper (s) in Normal oper Pressure (P ₁) + Boiler Outlet Gas Temp. 9F. Net Boiler Outlet Gas Te % CO ₂ % Stack Loss Smoke Bacharach #	ALTER Stack H in rating position(s) ADT= F.	*AT DAMPI *AT DAMPI eight = ADr FIN.	temper	Adequate / Inadequate in. w.c.(available draft required ature increases to 94° or 65° = P Manual Damper Closed and Barometric Damper Opened Pressure (P ₂) Boiler Outlet Gas Temp. °F. Net Boiler Outlet Gas Temp. °F. Net Boiler Outlet Gas Temp. °C. % CO ₂ % Stack Loss	(2 - P ₁) Vor
NITIAL RE	T ₃ Corrected Base of Sta Dr/H (From Tables 3a, 3b A Dr/H (Figure2)X EADINGS: Damper (s) i Normal oper Pressure (P ₁) + Boiler Outlet Gas Temp. Boiler Room Temp. *F. Net Boiler Outlet Gas Te % CO ₂ % Stack Loss Smoke Bacharach # Adequate	Stack H Stack H ating position(s) ADT= F. mp. F.	*3-AT) *F. & T 3) Resent NATE DAMP! eight = ADr FIN.	temper AL READINGS:	Adequate / Inadequate in. w.c.(available draft required ature increases to 94° or 65° = P Manual Damper Closed and Barometric Damper Opened Pressure (P ₂) Boiler Outlet Gas Temp. °F. Net Boiler Outlet Gas Temp. °F. Net Boiler Outlet Gas Temp. °C. % CO ₂ % Stack Loss Smoke Bacharach #	(2 - P ₁) Vor
NITIAL RE	T ₃ Corrected Base of Sta Dr/H (From Tables 3a, 3b A Dr/H (Figure2)X EADINGS: Damper (s) i Normal oper Pressure (P ₁) + Boiler Outlet Gas Temp. Boiler Room Temp. *F. Net Boiler Outlet Gas Te ** Stack Loss Smoke Bacharach # Adequate OW FIRE DATA	Stack H Stack H ating position(s) ADT= F. Instruction	*AT 3) Reserved to ADT SIMILE (See Inc.) SIMILE TO SIMI	temper	Adequate / Inadequate in. w.c.(available draft required ature increases to 94° or 65° = P Manual Damper Closed and Barometric Damper Opened Pressure (P ₂) Boiler Outlet Gas Temp. °F. Net Boiler Outlet Gas Temp. °F. Net Boiler Outlet Gas Temp. °S. Stack Loss Smoke Bacharach #	P ₂ - P ₁) Wor i
NITIAL RE	T_3 Corrected Base of Sta Dr/H (From Tables 3a, 3b	Stack H Stack H ating position(s) ADT= F. INTERPORTED INTERPO	*AT 3) Reserved to ADT SIMILE (Se	temper AL READINGS:	Adequate / Inadequate in. w.c.(available draft required ature increases to 94° or 65° = P Manual Damper Closed and Barometric Damper Opened Pressure (P2) Boiler Outlet Gas Temp. °F. Boiler Room Temp. °F. Net Boiler Outlet Gas Temp. °C. % CO2 % Stack Loss Smoke Bacharach #	P ₂ - P ₁) Wor i
NITIAL RI	T ₃ Corrected Base of Sta Dr/H (From Tables 3a, 3b A Dr/H (Figure2)X EADINGS: Damper (s) i Normal oper Pressure (P ₁) + Boiler Outlet Gas Temp. Boiler Room Temp. *F. Net Boiler Outlet Gas Te % CO ₂ % Stack Loss Smoke Bacharach # Adequate OW FIRE DATA Steady St. Smoke (B	Stack H Stack H ating position(s) ADT= F. Instruction	*AT 3 Reserved ADT SIMILE (Se	e Figure 2)	Adequate / Inadequate in. w.c.(available draft required ature increases to 94° or 65° = P Manual Damper Closed and Barometric Damper Opened Pressure (P2) Boiler Outlet Gas Temp. °F. Net Boiler Outlet Gas Temp. °F. Net Boiler Outlet Gas Temp. °S Stack Loss Smoke Bacharach #	Yor f.
NITIAL RI	T_3 Corrected Base of Sta Dr/H (From Tables 3a, 3b	Stack H Stack H ating position(s) ADT= F. INTERPORTED INTERPO	*AT 3) Reserved to ADT SIMILE (Se	temper AL READINGS:	Adequate / Inadequate in. w.c.(available draft required ature increases to 94° or 65° = P Manual Damper Closed and Barometric Damper Opened Pressure (P2) Boiler Outlet Gas Temp. °F. Boiler Room Temp. °F. Net Boiler Outlet Gas Temp. °C. % CO2 % Stack Loss Smoke Bacharach #	Yor f.
NITIAL RI	T ₃ Corrected Base of Sta Dr/H (From Tables 3a, 3b A Dr/H (Figure2)X EADINGS: Damper (s) i Normal oper Pressure (P ₁) + Boiler Outlet Gas Temp. Boiler Room Temp. *F. Net Boiler Outlet Gas Te % CO ₂ % Stack Loss Smoke Bacharach # Adequate OW FIRE DATA Steady St. Smoke (B	ALTER Stack H in ating position(s) ADr= eF. imp. eF. imp. eF. imp. attacharach#)	And E pampi ENATE PAMPi eight = ADr FINA FINA FINA [d] [d] [d] [d] [d]	e Figure 2)	Adequate / Inadequate in. w.c.(available draft required ature increases to 94° or 65° = P Manual Damper Closed and Barometric Damper Opened Pressure (P2) Boiler Outlet Gas Temp. °F. Net Boiler Outlet Gas Temp. °F. Net Boiler Outlet Gas Temp. °F. Stack Loss Smoke Bacharach #	Yor f.
Reserve:	T 3 Corrected Base of Sta Dr/H (From Tables 3a, 3b A Dr/H (Figure2)X EADINGS: Damper (s) i Normal oper Pressure (P1) + Boiler Outlet Gas Temp. Boiler Room Temp. F. Net Boiler Outlet Gas Te % CO2 % Stack Loss Smoke Bacharach # Adequate OW FIRE DATA Steady St Smoke (B	ALTER Stack H in ating position(s) ADr= eF. imp. eF. imp. eF. imp. attacharach#)	And E pampi ENATE PAMPi eight = ADr FINA FINA FINA [d] [d] [d] [d] [d]	e Figure 2)	Adequate / Inadequate in. w.c.(available draft required ature increases to 94° or 65° = P Manual Damper Closed and Barometric Damper Opened Pressure (P2) Boiler Outlet Gas Temp. °F. Net Boiler Outlet Gas Temp. °F. Net Boiler Outlet Gas Temp. °F. Stack Loss Smoke Bacharach #	Yor f.
NITIAL RI	T 3 Corrected Base of Sta Dr/H (From Tables 3a, 3b A Dr/H (Figure2)X EADINGS: Damper (s) i Normal oper Pressure (P1) + Boiler Outlet Gas Temp. Boiler Room Temp. F. Net Boiler Outlet Gas Te % CO2 % Stack Loss Smoke Bacharach # Adequate OW FIRE DATA Steady St Smoke (B	ALTER Stack H in ating position(s) ADr= eF. imp. eF. imp. eF. imp. attacharach#)	And E pampi ENATE PAMPi eight = ADr FINA FINA FINA [d] [d] [d] [d] [d]	e Figure 2)	Adequate / Inadequate in. w.c.(available draft required ature increases to 94° or 65° = P Manual Damper Closed and Barometric Damper Opened Pressure (P2) Boiler Outlet Gas Temp. °F. Net Boiler Outlet Gas Temp. °F. Net Boiler Outlet Gas Temp. °F. Stack Loss Smoke Bacharach #	Yor f.

TRANSMISSION VERIFICATION REPORT

TIME: 09/29/2008 14:53

ME : DEP XX : 718-595-3873

TEL : BROE 2N347636

Spoke to: Bill Gillan

DATE, TIME FAX NO. /NAME DURATION PAGE(S) RESULT 09/29 14:52 916314915476 00:01:22 02

STANDARD



THE CITY OF NEW YORK DEPARTMENT OF ENVIRONMENTAL PROTECTION 59-17 JUNCTION BOULEVARD, 9TH FLOOR, CORONA, NEW YORK 11368 - 5107 BUREAU OF ENVIRONMENTAL COMPLIANCE

Emily Lloyd, Commissioner

Robert Avaltroni, Deputy Commissioner

DATE: 9/30/2008

AUTHORIZED AGENT / INSTALLER:

F.W. SIMS

101 OTIS STREET

W. BABYLON NY, 11704

ATTN: BILL GILLAN

OWNER:

343 BROADWAY PROPERTIES L

100 WASHINGTON STREET

NEWARK NJ, 07102

INSTALLER'S TELEPHONE#:

(631) 491-1788

Tuesday, Occober 47, 2008

9:30:00 AM

INSTALLER'S FAX#:

(631) 491-5476

THIS OFFICE HAS AT YOUR REQUEST SCHEDULED AN INSPECTION FOR:

INSPECTION DATE:

Tuesday, October 07, 2008

INSPECTION TIME:

9:30:00 AM

CA/CB NUMBER:

CB195506H

ADDRESS:

88 LEONARD STREET, MANHATTAN NY, 10013

PERFORMANCE TEST:

(es

THE CITY OF NEW YORK DEPARTMENT OF ENVIRONMENTAL PROTECTION 59-17 JUNCTION BOULEVARD, 9TH FLOOR, CORONA, NEW YORK 11368 - 5107 BUREAU OF ENVIRONMENTAL COMPLIANCE

Juyd, Commissioner

Robert Avaltroni, Deputy Commissioner

DATE: 9/30/2008

AUTHORIZED AGENT / INSTALLER:

OWNER:

F.W. SIMS

101 OTIS STREET

W. BABYLON NY, 11704

ATTN: BILL GILLAN

343 BROADWAY PROPERTIES L 100 WASHINGTON STREET

NEWARK NJ, 07102

INSTALLER'S TELEPHONE#:

(631) 491-1788

INSTALLER'S FAX#:

(631) 491-5476

THIS OFFICE HAS AT YOUR REQUEST SCHEDULED AN INSPECTION FOR:

INSPECTION DATE:

Tuesday, October 07, 2008

INSPECTION TIME:

9:30:00 AM

CA/CB NUMBER:

CB195506H

ADDRESS:

88 LEONARD STREET, MANHATTAN NY, 10013

PERFORMANCE TEST: Yes

THE AIR POLLUTION CONTROL CODE REQUIRES THAT THE COMBUSTION EQUIPMENT MUST BE INSTALLED IN COMPLIANCE WITH THE APROVED APPLICATION PLANS. ALL EQUIPMENT AND CONTROLS MUST BE IN PROPER WORKING ORDER AND MUST BE PREPARED TO DEMONSTRATE THIS BY SUCESSFULLY PASSING THE PERFORMANCE TEST SPECIFIED IN THIS CODE.

IN THE EVENT THAT THE INSPECTION DOES NOT RESULT IN THE ISSUANCE OF A CERTIFICATE OF OPERATION ENGINEERING WILL REFER THE MATTER TO THE ENFORCEMENT DIVISION FOR APPROPRIATE ACTION.

YOUR'S TRULY,

R.A. HODGE, P.E.

DIRECTOR OF ENGINEERING

(718) 595-3807 OR (718) 595-6517

Colory P.E.

INSTALLER'S PRE - INSPECTION REPORT AND PERFORMANCE TEST DATA (COPY ATTACHED)
MUST BE SUBMITTED AT THE TIME OF INSPECTION.



THE CITY OF NEW YORK DEPARTMENT OF ENVIRONMENTAL PROTECTION

Bureau of Environmental Compliance

59-17 Junction Boulevard, 9th Floor, Flushing, New York 11373-5108 Records Control (718) 595-3855

Robert C. Avaltroni, Deputy Commissioner

7/6/08

DATE:

Emily Lloyd, Commissioner

277/06

INSPECTION REQUEST (TO BE TYPED OR PRINTED)

2008 JUL 11 A 10: 04

.^(\\(111100 100 100 100		11.	
11/1	7/10/00 2000 302	FEE	ENCLOSED:	\$ 940.00
- 11		APPI	LICATION #:	СВ195506Н
	BOLL LOCALIST			MANHATTAN
REMISES ADDRESS:	88 LEONARD STREET			(Borough))
AM REQUESTING:				
AN INSPE	CTION AT THE ABOVE REFERENCED ADDRESS	111-12-1-1-1	3.0	CERTIFICATION
X A REINSPI	ECTION AT THE ABOVE REFERENCED ADDRESS	CUEAC MOF		RECERTIFICATION .
PPLICATION, PLANS A Y DEP. I AM AWARE ' OOWAREA WHERE ISAPPROVAL WILL B		IN A DAMAGED ON WILL NOT	OR DETERI BE COMP	ORATED CONDITION IN THE LETED AND A NOTICE OF
THIS IS A REQUEST	FOR A RE-INSPECTION: I CERTIFY THAT ALL DI	EFICIENCIES W ORTH BELOW:	HICH RESU	LTED IN THE ISSUANCE OF
	E FOLLOWING ITEM BY ITEM. A REINSPECTION		NOT RESU	LT IN THE ISSUANCE OF A
ERTIFICATE OF OPE	RATION MAY SUBJECT THE APPLICATION TO CA	NCELLATION.		
	THE THIS PRODUCTS IN			
	A STATE OF THE STA	0		
	fee \$ 94	Regelpt No	02	2288
	Les A TIT	Z I S		
	3.E.C. Clerk_	1	7	
		U		
		and the second		
//	00			1
12-14	led. I. T.	O. B.	INSTALL	ER .
NSTAL ER'S SIGNATU	IRF	TITLE	INDIADL	
FLEGALIZATION, P.E., R	.A. OR OWNER'S SIGNATURE)			
NSTALLER'S NAME				
P.E., R.A.'S NAME)	F.W. SIMS			631-491-3709/631-491-
				TELEPHONE NUMBER
TREET ADDRESS	101 OTIS STREET, WEST BABYLO	N, NY 11704		
		ITY)	(STATE)	(ZIP CODE)
WNER'S NAME	343 BROADWAY PROPERTIES LLC			718-398-3200
	D 900 FAR			TELEPHONE NUMBER
TREET ADDRESS	100 WASHINGTON STREET, NEWARK, N	J 07102		
		ITY)	(STATE)	(ZIP CODE)
				(Revised 09/26/05)



THE CITY OF NEW YORK DEPARTMENT OF ENVIRONMENTAL PROTECTION

Bureau of Environmental Compliance 59-17 Junction Boulevard, 9th Floor, Flushing, New York 11373-5108 RECORDS CONTROL - (718) 595 – 3855

M 4/6/08

Robert C. Avaltroni, Deputy Commissioner

NOTICE OF INSTALLATION DISAPPROVAL

		DATE: 03/01/08
"sel seel "	INSTALLAT	TION#: CB# 1955/06 H
INSTALLER	OWNER	
F.W. SIMS	343 B#	ROADWAY PROPERTIES L
101 OTIS STREET	100 WA	SHINGTON STREET
W. BABYLON NY, 11	704 NEWAR	K NJ/07/02
63 (D		
PREMISES ADDRESS:	B LEONARD STREET	MANHATTAN
and the second second second second		(Borough)
WITH THE STATED REQUIRMENTS WIT APPLICATION AND FORFEITURE OF AL A CERTIFICATE OF OPERATION CANNOT PLEASE COMPLETE THE AR-365 INSI DEP/RECORDS CONTROL, 59-17 JUNC	THIN (60) DAYS FROM THE ABOVE DATE M. LL PAID FEES AS WELL AS ENFORCEMENT OT BE ISSUED UNTIL ALL OBJECTIONS ARE PECTION REQUEST ON THE REVERSE SI	AS REVEALED THE FOLLOWING OBJECTIONS TION CONTROL CODE. FAILURE TO COMPLY AY RESULT IN THE CANCELLATION OF THE ACTION AGAINST THE OWNER. RESOLVED. TO REQUEST RE-INSPECTION, IDE OF THIS NOTICE AND RETURN IT TO NEW YORK 11373-5108. DO NOT SUBMIT A
NEW APPLICATION IN RESPONSE TO 1	THIS NOTICE.	
1. AT THE TIME	OF INSPECTION THE BU	RNER LIMITATION
	BE VERIFIED (THE R	
	THE PLACE).	ESPONSIBLE PERSON
2. SURMIT RE-	INSPECTION REQUES	ST, ALONG WITH A
RE-INSPECTIO	ON FEE OF # 940.00	
12		
	The second secon	
	and the second of the second o	The second secon
		GE STANORO A PUBLICATION IN THE MILE
A SW ESSEL		THE COURT OF THE C
0.2		1. 1.0
R B	FISSIL FUELS	13/07/08
NGINEER NAME/NUMBER	DIVISION	INSPECTION DATE
R 325	PAGE 1 OF 2 (See Reverse Side)	(Revised 08/18/06)
		7050

CR 1955/06H AN INESS BB LEONARD	2D STR.	Boro MANH.	HETHOD OF OIL TEMPLRATURE MAINTENANCE		
DATE 03/07/08 INSPECTION	RB		- PRIMARY NUMBER	10 2	1
SUPER	e energi		SILAN DR HOT WATER	1 S	77
PHONE 4	APT. THE	ow (s	JICRHOHETER READINGS		
COULPA, CHI	Previously Approved	Presently	Sequential -	. F/16s	POWER OFFERTED DARFT
Mumber		7 (2)		1	COR COR AFS
Hale & Hodel	SECTION AND ADDRESS OF THE PERSON ADDRESS	FEDERAL 1	Curry At any		HEATTMER
Gross Boller Output BTU/HR		FST-300,	Remote		MIST
JAMERS		1 16.	Auto, Cut-Off		
# 20/8/NG Firth Rate 10 GM ROLL		(200 DEN 1	Gross	Q.	
Make & Hodel			Ouct Length		
Brntr Input BTU/HR		# FI 6 G0 75	•		VENITILATION DUCT
BURNED OIL DELIVERY			fan Fan-Make & Model	Ŀ	2 Green Heck 728-1-18-153
CALL LIMITATION		MONAKCH.	Motorized	579	-
	L. F. O.L 15 PSIC	16 = 169-WA-100	pir Breeching Inside Dies,		AS PER PLAN
		0			/
COMPANION CONTRELLER					
HI-LOW			Fan Capacity	cfa S.B.	cfa s.p.
Modulating	9	LAI A/M9174E	Chimney Inside Dies.		32
Positive Linkage	-36		Helph	-	V.S.C
1		1	Raincep		NO METAL CHINNEY
Mindbay A			Distance to		
DAROLL Shrouded					600 000 Bru
Marker of Contraction of the Con	10		DOTHER EQUIPMENT IN BOILER 5 WATER WENTERS	4	900
AL OIL A Secondary Heaters/Waltage			The state of the s	1	

	CA#C	P. #	1955 - C	6 11		NHATTA	~		: 03 -	07-	
	PERFORM	ANCE TES	iT:			ngineer		RB			
Boile	er Identification			Pass	ed	Failed_					
L	Performano	e Test Pres	paration - Kit #_		0	il Delivery Ra	de:				
[a]									*		5
[6]		. Inempon	eter Near Burner	m		Pre Puro	e: .	Dam	ner (e) O		
[c]		Test Prob	Condition Verified es installed	200		Burner F	an 30 Se	ec. Min	,	-	_
[0]		Burner Or	1	[6]		Control I	Jamper(s) to High F	ire	-	
[e]		Burner Int	erlocked with fan,	[h] -	-	Burner L		Burner Oil			
		Louvers &	Dampers	m				ometric Pres	ssure		
	HIGH FIRE	DATA						_		-	_
	12.37, 72.71 × 10.00 (10.00 13.44)		INDIVID	DUAL / SIN	ULTANEOL	IS FIRING)		•			
[s]		Steady Sta	te	ten.		Pelles O		T			
[p]		Smoke Bac	charach #	[d] [e]		Room Te		Temperatu	me T.		
[c]	—_;	% CO2	•	(D)				Gas Temp	۰F.		
					k Loss (Fron	n Tables 1a,					
12			POWER	DEDATE	D DDAET D	EGULATOR				_	
	· in w	c (Normal)	Operated Position)	ERAIE	DWAFI K						
-	m. w.	c. (Full Op	en Position)			°F. Outsid	ne 2) v	erature	Stack		
	— ∆in.v	W.C.	- 1 - 1		-	Height=	^^	n. w.c. Min			
						Reserved					
			M: 2.1	BAROMET	RIC DAMPE	R					
	Norm	al Positio	n		He	eld Closed					
	T, (Base o	of Stack Te	emperature) °F	Page 12 11 11 11 11 11 11 11 11 11 11 11 11	T 0-	e of Stack Te	mant	me) of			
	T. (Boiler				1, (82)						
Y 41			Temperature) °F			ier Outlet Ga					
*		et (T_T2)	e F	_	T_(Bo						
		et (T ₄ -T ₂) ted Base o	of Stack Temperature	(تۇ-،⁴ت)	T ₄ (Bo						
		et (T ₄ -T ₂) ted Base o	e F	(Γ ₃ -Δ1) Τ, & Γ ₃) F	T ₄ (Bo	iler Outlet Ga	s Tempe				
		et (T ₄ -T ₂) ted Base o	of Stack Temperature a, 3b, 3c & 3d using	T, & T 3) F	T4 (Bo eF. Reserve:	iler Outlet Ga	s Tempe	erature) °F.			
		et (T ₄ -T ₂) ted Base on Tables 3	of Stack Temperature a, 3b, 3c & 3d using ALT	T, & T ₃) F	F. Reserve:	ier Outlet Ga	s Tempe	erature) °F.			
		et (T ₄ -T ₂) ted Base o	of Stack Temperature a, 3b, 3c & 3d using ALT	T, & T 3) F	F. Reserve:	ier Outlet Ga	equate /	Inadequate	aft recruir	ed as o	ute
		et (T ₄ -T ₂) ted Base on Tables 3 Figure2)X	of Stack Temperature a, 3b, 3c & 3d using ALTI Stack	T, & T ₃) F	T ₄ (Bo *F. Reserve: AMPER ME	Add THOD in temperatu	equate /	Inadequate Valiable drases to 94*	aft requir	= P2 - P.	ut:
INITIAL		et (T _x -T ₂) ted Base on Tables 3 Figure2)X	of Stack Temperature a, 3b, 3c & 3d using ALTI Stack (s) in	T, & T ₃) F	F. Reserve:	Add THOD in temperatu	equate / w.c.(a	Inadequate vailable drases to 94°	aft requir	P ₂ - P ₃	ute ()
INITIAL		et (T _x -T ₂) ted Base on Tables 3. Figure2)X Damper Normal of	of Stack Temperature a, 3b, 3c & 3d using ALTI Stack (s) in operating position(s)	T, & T ₃) F	T ₄ (Bo *F. Reserve: AMPER ME	Addition Addition in temperature ADINGS:	equate / . w.c.(a .re incre Manu Baror	Inadequate valiable drases to 94* al Damper	aft requir	P ₂ - P ₃	ut:
INITIAL		et (T _x -T ₂) ted Base on Tables 3. Figure2)X Damper Normal of	of Stack Temperature a, 3b, 3c & 3d using ALTI Stack (s) in operating position(s)	T, & T ₃) F	T ₄ (Bo *F. Reserve: AMPER ME	Addition Add	equate / u. w.c.(a me incre Manu Baror Pressure	Inadequate valiable drasses to 94* all Damper netric Dam	aft requir or 65° : Closed a per Oper	= P ₂ - P and/or ned	ut:
NITIAL		et (T _x -T ₂) ted Base on Tables 3. Figure2)X Damper Normal of	of Stack Temperature a, 3b, 3c & 3d using ALTI Stack (s) in operating position(s)	T, & T ₃) F	T ₄ (Bo *F. Reserve: AMPER ME	Addings:	equate / . w.c.(a . w.c.(a Manu Baror Pressure Soiler Ou	Inadequate valiable drases to 94* al Damper netric Dam (P ₂) tiet Gas To	aft require or 65° : Closed a per Oper	= P ₂ - P and/or ned))
INITIAL		et (T _x -T ₂) ted Base of n Tables 3. Figure2)X, Damper Normal of P ₁) + et Gas Ten	of Stack Temperature a, 3b, 3c & 3d using ALTI Stack (s) in operating position(s) ^Dr= mp. *F. F.	T, & T ₃) F	T ₄ (Bo *F. Reserve: AMPER ME	Addition Add	equate / . w.c.(a .re incre Manu Baror Pressure Soiler Ou Soiler Ro	Inadequate valiable dr asses to 94* al Damper netric Dam (P ₂) affet Gas To	aft require or 65° : Closed apper Oper	= P ₂ - P and/or ned	()
NITIAL		et (T _x -T ₂) ted Base of n Tables 3. Figure2)X, Damper Normal of P ₁) + et Gas Ten	of Stack Temperature a, 3b, 3c & 3d using ALTI Stack (s) in operating position(s) ^Dr= mp. *F. F.	T, & T ₃) F	T ₄ (Bo *F. Reserve: AMPER ME	Addition Add	equate / . w.c.(a .re incre Manu Baror Pressure Soiler Ou Boiler Ro	Inadequate valiable drases to 94* al Damper netric Dam (P ₂) tiet Gas To	aft require or 65° : Closed apper Oper	= P ₂ - P and/or ned	()
NITIAL	AT at Outle T 3 Correct Dr/H (From A Dr/H (From READINGS: Pressure (F Boiler Outle Boiler Roor Net Boiler (C) % CO2	et (T _x -T ₂) ted Base of Tables 3 Figure2)X Damper Normal of P ₁) + et Gas Term Temp. 4 Outlet Gas	of Stack Temperature a, 3b, 3c & 3d using ALTI Stack (s) in operating position(s) ^Dr= mp. *F. F.	T, & T ₃) F	T ₄ (Bo *F. Reserve: AMPER ME	Addition Add	equate / . w.c.(a .re incre Manu Baror Pressure Soiler Ot Soiler Ro Net Boile % CO2	Inadequate valiable drasses to 94* al Damper metric Dam (P ₂) attet Gas To com Temp. er Outlet Gas	aft require or 65° : Closed apper Oper	= P ₂ - P and/or ned	()
NITIAL	AT at Outli T 3 Correct Dr/H (From A Dr/H (From READINGS: Pressure (F Boiler Outle Boiler Roor Net Boiler (CO2 % Stack Lo	et (T _x -T ₂) ted Base of n Tables 3 Figure2)X Damper Normal of P ₁) + et Gas Ten n Temp. * Outlet Gas	of Stack Temperature a, 3b, 3c & 3d using ALTI Stack (s) in operating position(s) ^Dr= mp. *F. F.	T, & T ₃) F	T ₄ (Bo *F. Reserve: AMPER ME	Addition Add	equate / . w.c.(a .re incre Manu Baror Pressure Soiler Ot Soiler Ro Net Boile % CO % Stack	Inadequate valiable dr asses to 94* al Damper netric Dam (P ₂) affet Gas To com Temp. er Outlet Gas Loss	aft require or 65° : Closed a per Oper	= P ₂ - P and/or ned	ut:
	AT at Outling T³ Correct Dr/H (Front A Dr/H (Front A Dr/H (Front READINGS: Pressure (Front Boiler Outling Boiler Coutling Net Boiler (Co² % CO₂ % Stack Lo² Smoke Bac	ted Base on Tables 3 Figure 2)X Damper Normal of Pall + et Gas Term Temp. 4 Outlet Gas tharach #	of Stack Temperature a, 3b, 3c & 3d using ALT Stack (s) in operating position(s)	T, & T 3) F	T ₄ (Bo *F. Reserve: AMPER ME	Addition Add	equate / . w.c.(a .re incre Manu Baror Pressure Soiler Ot Soiler Ro Net Boile % CO % Stack	Inadequate valiable drasses to 94* al Damper metric Dam (P ₂) attet Gas To com Temp. er Outlet Gas	aft require or 65° : Closed a per Oper	= P ₂ - P and/or ned	urt:
	AT at Outling T³ Correct Dr/H (Front A Dr/H (Front A Dr/H (Front READINGS: Pressure (Front Boiler Outling Boiler Coutling Net Boiler (Co² % CO₂ % Stack Lo² Smoke Bac	et (T _x -T ₂) ted Base of n Tables 3 Figure2)X Damper Normal of P ₁) + et Gas Ten n Temp. * Outlet Gas	of Stack Temperature a, 3b, 3c & 3d using ALT Stack (s) in operating position(s)	T, & T 3) F	T ₄ (Bo	Addition Add	equate / . w.c.(a .re incre Manu Baror Pressure Soiler Ot Soiler Ro Net Boile % CO % Stack	Inadequate valiable dr asses to 94* al Damper netric Dam (P ₂) affet Gas To com Temp. er Outlet Gas Loss	aft require or 65° : Closed a per Oper	= P ₂ - P and/or ned	
teserve	AT at Outling T³ Correct Dr/H (Front A Dr/H (Front A Dr/H (Front READINGS: Pressure (Front Boiler Outling Boiler Coutling Net Boiler (Co² % CO₂ % Stack Lo² Smoke Bac	ted (T _e T ₂) ted Base of Tables 3 Figure2)X Damper Normal of Tables 3 Temp. 4 Dutlet Gas tharach #	of Stack Temperature a, 3b, 3c & 3d using ALT Stack (s) in operating position(s)	T, & T 3) F	T ₄ (Bo	Addition Add	equate / . w.c.(a .re incre Manu Baror Pressure Soiler Ot Soiler Ro Net Boile % CO % Stack	Inadequate valiable dr asses to 94* al Damper netric Dam (P ₂) affet Gas To com Temp. er Outlet Gas Loss	aft require or 65° : Closed a per Oper	= P ₂ - P and/or ned	
teserve	AT at Outling T 3 Correct Dr/H (From A Dr/H (From A Dr/H (From READINGS: Pressure (Facility of the Boiler Coutle Boiler Room Net Boiler (CO2 % Stack Lo Smoke Bac	ted (T _e T ₂) ted Base of Tables 3 Figure2)X Damper Normal of Tables 3 Temp. 4 Dutlet Gas tharach #	of Stack Temperature a, 3b, 3c & 3d using ALTI Stack (s) in operating position(s)	T ₁ & T ₃) F ERNATE D Height = <u>f</u>	T ₄ (Bo	Add THOD in temperatus ADINGS:	equate / . w.c.(a .re incre Manu Baror Pressure Soiler Ot Soiler Ro Net Boile % CO % Stack	Inadequate valiable dr asses to 94* al Damper netric Dam (P ₂) affet Gas To com Temp. er Outlet Gas Loss	aft require or 65° : Closed a per Oper	= P ₂ - P and/or ned	un.)
Reserve:	AT at Outling T 3 Correct Dr/H (From A Dr/H (From A Dr/H (From READINGS: Pressure (Facility of the Boiler Coutle Boiler Room Net Boiler (CO2 % Stack Lo Smoke Bac	et (T_T_) ted Base of Tables 3 Figure2)X Damper Normal of P_1) + et Gas Term Temp. * Dutlet Gas charach # Adequ	of Stack Temperature a, 3b, 3c & 3d using ALTI Stack (s) in operating position(s)	T ₁ & T ₃) F ERNATE D Height = <u>f</u>	T ₄ (Bo F. Reserve: AMPER ME OT FINAL RE	Add THOD in temperatus ADINGS:	equate / w.c.(a w.c.(a me incre Manu Barror Pressure Boiler Or Boiler Ro Net Boile CO ₂ Stack Smoke B	Inadequate valiable drasses to 94* al Damper metric Dam (P ₂) affet Gas To com Temp. er Outlet Gas Loss acharach a	aft require or 65° : Closed a per Oper	= P ₂ - P ₁ and/or ned	.)
Reserve:	AT at Outling T 3 Correct Dr/H (From A Dr/H (From A Dr/H (From READINGS: Pressure (Facility of the Boiler Coutle Boiler Room Net Boiler (CO2 % Stack Lo Smoke Bac	tet (T_T_) ted Base of Tables 3. Figure2)X Damper Normal of P_1) + et Gas Ten Temp. * Dutlet Gas tharach # Adequate Steady \$	of Stack Temperature a, 3b, 3c & 3d using ALTI Stack (s) in operating position(s)	T ₁ & T ₃) F ERNATE D Height = <u>f</u>	T ₄ (Bo F. Reserve: AMPER ME OT FINAL RE (See Figure (J)	Add THOD in temperatus ADINGS:	equate / . w.c.(a .re incre Manu Baror Pressure Boiler Or Boiler Ro V CO ₂ V Stack Smoke B	Inadequate valiable dr. asses to 94* al Damper netric Dam (P ₂) affet Gas To com Temp. er Outlet Gi Loss acharach i	aft require or 65° : Closed a per Oper emp. «F. «F. as Temp	= P ₂ - P ₁ and/or ned	.)
Reserve:	AT at Outling T 3 Correct Dr/H (From A Dr/H (From A Dr/H (From READINGS: Pressure (Facility of the Boiler Coutle Boiler Room Net Boiler (CO2 % Stack Lo Smoke Bac	tet (T_T_) ted Base of Tables 3 Figure2)X Damper Normal of P_) + et Gas Ten Temp. * Outlet Gas tharach #Adequ TASteady \$Smoke (of Stack Temperature a, 3b, 3c & 3d using ALTI Stack (s) in operating position(s)	T ₁ & T ₃) F ERNATE D Height = <u>f</u>	T ₄ (Bo F. Reserve: AMPER ME OT FINAL RE	Add THOD in temperatus ADINGS:	equate / . w.c.(a .re incre Manu Baror Pressure Boiler Or Boiler Ro K CO ₂ K Stack Smoke B	Inadequate valiable drasses to 94* all Damper netric Dam (P ₂) atlet Gas To com Temp. er Outlet Ga Loss acharach a	aft require or 65° : Closed a per Oper oper oper oper oper oper oper oper o	= P ₂ - P ₃ and/or ned	.)
teserve:	AT at Outling T 3 Correct Dr/H (From A Dr/H (From A Dr/H (From READINGS: Pressure (Facility of the Boiler Coutle Boiler Room Net Boiler (CO2 % Stack Lo Smoke Bac	tet (T_T_) ted Base of Tables 3. Figure2)X Damper Normal of P_1) + et Gas Ten Temp. * Dutlet Gas tharach # Adequate Steady \$	of Stack Temperature a, 3b, 3c & 3d using ALTI Stack (s) in perating position(s)	T ₁ & T ₃) F ERNATE D Height = <u>f</u>	T ₄ (Bo F. Reserve: AMPER ME DT FINAL RE (See Figure [d] [c] [T]	Add THOD in temperature ADINGS:	equate / . w.c.(a .	Inadequate valiable drases to 94* al Damper metric Dam i (P ₂) after Gas To com Temp. er Outlet Gas acharach i er Outlet Gas femperatur er Outlet G	aft require or 65° : Closed a per Oper oper oper oper oper oper oper oper o	= P ₂ - P ₃ and/or ned	.)
Reserve:	AT at Outling To Correct Drift (From A Drift (From A Drift (From READINGS: Pressure (Food of the Boiler Coutle Boiler Room Net Boiler (Co.) ** CO. ** Stack Lo. Smoke Back OW FIRE DA	ted (T_T_2) ted Base of n Tables 3 Figure 2) X Damper Normal of the test of	of Stack Temperature a, 3b, 3c & 3d using ALTI Stack (s) in perating position(s)	nadequate	Tables 1a, 1	Addition of the state of the st	equate / . w.c.(a .	Inadequate valiable drases to 94* al Damper metric Dam i (P ₂) after Gas To com Temp. er Outlet Gas acharach i ernperature er Outlet Gas mm)	aft require or 65° : Closed a per Oper emp. *F. *F. as Temp	= P ₂ - P ₃ and/or ned	.)
Reserve:	AT at Outh T 2 Correct Dr/H (From A Dr/H (From A Dr/H (From READINGS: Pressure (F Boiler Outh Boiler Couth Boiler Roor Net Boi	tet (T_T_2) ted Base of Tables 3. Figure2)X Damper Normal of P_1) + et Gas Ten m Temp. *i Outlet Gas siss	Stack Temperature a, 3b, 3c & 3d using ALT Stack (s) in operating position(s) ADr= mp. *F. Temp. *F. Temp. *F. State (Bacharach*) % Stack Lo	T, & T,) F ERNATE D Height = [TALE	Addition of the state of the st	equate / w.c.(a re incre Manu Baror Pressure Boiler Or Boiler Ro Net Boiler K CO ₂ K Stack Smoke B Boiler C Room T Net Boil Maximu	Inadequate valiable dr. asses to 94* al Damper netric Dam (P ₂) affet Gas Te com Temp. er Outlet Ga Loss acharach a cemperature er Outlet G	aft require or 65° : Closed a per Oper oper oper oper oper oper oper oper o	= P ₂ - P ₁ and/or ned eF.	
teserve:	AT at Outh T 2 Correct Dr/H (From A Dr/H (From A Dr/H (From Boiler (From Boiler Outh Boiler Roor Net Boiler (CO2 % Stack Lo Smoke Bac	tet (T_T_2) ted Base of Tables 3. Figure2)X Damper Normal of P_1) + et Gas Ten m Temp. *i Outlet Gas starach # Adequ TA Steady \$ Smoke (% CO2	of Stack Temperature a, 3b, 3c & 3d using ALTI Stack (s) in perating position(s)	nadequate Height = [FINAL RE (See Figure Tables 1a, 1 THE	Addition of the state of the st	equate / w.c.(a re incre Manu Baror Pressure Boiler Or Boiler Ro Net Boiler K CO ₂ K Stack Smoke B Boiler C Room T Net Boil Maximu	Inadequate valiable dr. asses to 94* al Damper netric Dam (P ₂) affet Gas Te com Temp. er Outlet Ga Loss acharach a cemperature er Outlet G	aft require or 65° : Closed a per Oper oper oper oper oper oper oper oper o	= P ₂ - P ₁ and/or ned eF.	

16 Off Only - Off Lines Insulated Violenge	Positive Linkage. 10 Sec. Damper Mindbar Secondary Air Damar Strouded Checkerboard Floor	COMMUNITION COMING LIER 2 Porters. For the	ring sate 1 100 GPH. The ring sate from the 1 100 GPH. The ring is the ring in	' .	CV 1222-094 VG ILETT HER CALLENT NET TO COLUMN
A CVA	9N 1215W	Manurel C(1691) A 10 Paylor 100 hozz HF: Air = 13 payl HF: Air = 15 payl Kr = 15 payl	一种		d St. Boro Manhatter
CAN DA DA CHACK CAN DA DA CHACK OTHER THE POINTER	Chimey Seen b.K.	Breeching Induced Ha	THEO TENTITUTE OF THE STATES	OIL HEALERS	PAINAT
with water bodeys	Inside Height Cleanou Rainces			FALE & MOCE SILAN OR HOLL WATER CRAYITY OR FORCE LAND THE ATLANTING SEQUENTIAL ATLANTIC SEQUENTIAL - FREE & MOSE	HOO OF OIL TENPERATURE

The New York City DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Environmental Compliance
Air Permitting Unit

Air Permitting Unit 59-17 Junction Blvd./9th Floor Corona, NY 11368 332/06



mailed on 2/14/08-18

THE CITY OF NEW YORK DEPARTMENT OF ENVIRONMENTAL PROTECTION 59-17 JUNCTION BOULEVARD, 9TH FLOOR, CORONA, NEW YORK 11368 - 5107 BUREAU OF ENVIRONMENTAL COMPLIANCE

Emily Lloyd, Commissioner

Robert Avaltroni, Deputy Commissioner

DATE: 2/14/2008

Gross Blig Reing Mild

AUTHORIZED AGENT / INSTALLER:

F.W. SIMS 101 OTIS STREET W. BABYLON NY, 11704 PETER AGLIARDO OWNER:

343 BROADWAY PROPERTIES L 100 WASHINGTON STREET NEWARK NJ, 07102

INSTALLER'S TELEPHONE#:

INSTALLER'S FAX#:

THIS OFFICE HAS AT YOUR REQUEST SCHEDULED AN INSPECTION FOR:

INSPECTION DATE:

Friday, March 07, 2008

INSPECTION TIME:

1:50:00 PM

CA/CB NUMBER:

CB195506H

ADDRESS:

88 LEONARD STREET, MANHATTAN NY, 10013

PERFORMANCE TEST: Yes

THE AIR POLLUTION CONTROL CODE REQUIRES THAT THE COMBUSTION EQUIPMENT MUST BE INSTALLED IN COMPLIANCE WITH THE APROVED APPLICATION PLANS. ALL EQUIPMENT AND CONTROLS MUST BE IN PROPER WORKING ORDER AND MUST BE PREPARED TO DEMONSTRATE THIS BY SUCESSFULLY PASSING THE PERFORMANCE TEST SPECIFIED IN THIS CODE.

IN THE EVENT THAT THE INSPECTION DOES NOT RESULT IN THE ISSUANCE OF A CERTIFICATE OF OPERATION ENGINEERING WILL REFER THE MATTER TO THE ENFORCEMENT DIVISION FOR APPROPRIATE ACTION.

YOUR'S TRULY,

R.A. HODGE, P.E.

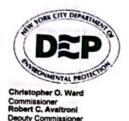
DIRECTOR OF ENGINEERING

(718) 595-3807 OR (718) 595-6517

Carry P.E.

INSTALLER'S PRE - INSPECTION REPORT AND PERFORMANCE TEST DATA (COPY ATTACHED)
MUST BE SUBMITTED AT THE TIME OF INSPECTION.

59-1/ Junction Blvd./9th Floor Corona, NY 11368 (718 595 3855)



Department Of Environmental Protection

Bureau of Environmental Compliance

59-17 Junction Blvd., Corona, N.Y. 11368 Records Control (718) 595-3855

Date: 06/11/07 Time 10:01 AM

Work Permit

Facility No.: Y23970 Installation: CB195506H Expires On: 06/04/2008

Owner:

343 BROADWAY PROPERTIES LLC 100 WASHINGTON STREET NEWARK NJ 07102

PE/RA:

GEORGE PEROTTO, P.E. 42-18 235 STREET **DOUGLASTON NY 11363**

Facility 343 BROADWAY PROPERTIES LLC 88 LEONARD STREET MANHATTAN NY 10013

Agent

Floor: C

Boiler Make & Model: EASTMOND/FEDERAL FST - 300 (NEW

of Identical Units: 2

Boiler Type: 10 Source Code: A7320 Air Intake: 0

Gross BTU Rating: 10.04 Heat Input: 12.6 x 10^6

Burner 1 Make & Model: GORDON PIATT F16-GO-75 (NEW)

Fuel Type: 32

Burner Type: 53 # of Burners: 2

Usage: Avg. Fuel/Hr: 180 Max Fuel/Hr: 90 Avg. Fuel/Year: 67500

Fuel Supplier:

% By Season: Winter: 0 Spring: 0 Summer: 0 Fall: 0 Hours/Day: 3 Days/Year: 125

Burner 2 Make & Model:

Burner Type: # of Burners: 0

Fuel Type: 0

Usage: Avg. Fuel/Hr.: 0 Max Fuel/Hr: 0 Avg. Fuel/Year: 0

% By Season: Winter: 0 Spring: 0 Summer: 0 Fall: 0 Hours/Day: 0 Days/Year: 0

Special Conditions / Limitations

Min Boiler Water Temp: 180 - OR - Steam Pressure: 0

B.O.D.R. IS LIMITED BY: MONARCH NOZZLE C169-WA - 100 GPH. HIGH FIRE OIL P = 300 PSIG, HIGH FIRE AIR P = 25 PSIG. LOW FIRE OIL P = 15 PSIG, LOW FIRE AIR P = 13 PSIG.

Work Permit

The holder of this work permit is responsible for the use of the equipment in accordance with all the applicable requirements and provisions of the New York City Air Pollution Control Code.

Violations of the Air Pollution Control Code can result in the imposition of penalties by the Environmental Control Board.

This permit must be posted in the vicinity of the designated equipment. It may not be transferred to any other equipment.

Equipment may only be operated for testing puposes, not exceeding THIRTY (30) days, without first obtaining a Certificate of Operation from the Bureau of Air, Noise & Hazardous Materials.

R.A. Hodge, P.E.,

Director of Engineering



The New York City DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Environmental Compliance
Air Permitting Unit
59-17 Junction Blvd./9th Floor
Corona, NY 11368
(718 595 3855)

332/06

Christopher O. Ward Commissioner

May 9, 2007

DEP AIR PERMITE

OWNER: 343 BROADWAY PROPERTIES LLC 100 WASHINGTON STREET NEWARK, NJ 07102

P.E: GEORGE PEROTTO, P.E. 42-18 235 STREET DOUGLASTON, NY 11363

INSTALLATION NO: CB195506H

PREMISE: 88 LEONARD STREET

MANHATTAN 10013

YOUR APPLICATION FOR A WORK PERMIT OR CERTIFICATE OF OPERATION CANNOT BE RELEASED UNTIL
THE FOLLOWING IS RECEIVED.

A CURRENT CERTIFICATE OF WORKMAN'S COMPENSATION ISSUED TO THE DEPT. OF
ENVIRONMENTAL PROTECTION. (NEW YORK STATE WORKMAN'S COMPENSATION).

CERTIFICATE OF DISABILITY BENEFITS.

A CONTRACTOR OF RECORD STATEMENT. (SEE REVERSE SIDE OF THIS NOTICE).

AN APPLICATION FOR A PERMIT OR CERTIFICATE OF OPERATION IS AUTOMATICALLY CANCELLED IF A
CERTIFICATE OF WORKERS COMPENSATION AND CERTIFICATE OF DISABILITY INSURANCE IS NOT FILED
WITH THIS DEPARTMENT WITHIN (60) DAYS OF THIS NOTICE.

SEND THE REQUIRED DOCUMENTS TO: DEPARTMENT of ENVIRONMENTAL PROTECTION, 59-17 JUNCTION BOULEVARD 9^{th} FL. (RECORDS CONTROL) CORONA, NY 11368

RETURN THIS FORM WITH INSURANCE

WORKMAN'S COMP EXPIRATION DATE: 7/1/2002

INSTALLER ID: C197 SIMS MECHANICAL, F.W. 101 OTIS STREET WEST BABYLON, NY 11704

> RECORDS CONTROL UNIT 718 595 3855

DIVISION	EER NAME / NUMBER
££.	18038VV
	m_gr
	No. of the second
	The second secon
The second secon	
1, 1	JOS NOVEMB
2 d 2 2/9/7 has be	1 - Housewalness .
ON REQUEST WILL BE MADE PART OF THE ORIGINAL PLANS AND	APPROVED. THE AMENDMENT/INSPECTION
INSPECTION REQUEST DATED $O > -O -O > O$	REMISE ADDRESS: SS REEN THAT YOUR AMENDMENT AS BEEN.
	BEMIZE ADDRESS: 88 / EM
DOUGHASTON, N.Y. 11363	
42-18 235 STREET	
CAEORGE PERDITO, P.E.	
TVGENT	OMNEB
INSTALLATION#: CF/955-66H	
DATE:	
MATIONAL NOTICE	INEOE INEOE
ds Control (718) 595 - 3855	Christopher O. Ward,
of Environmental Compliance ard, 9th Floor, Corona, New York 11368-5107	Zan Bureau
DEPARTMENT OF ENVIRONMENTAL PROTECTION	THE CILK OF NEW YORK
IKONWENTAL COMPLIANCE	CILA OF NEW YORK DEPARTM

(IN. REV. 12/02)

	Annual Landson		The part of the
DED	CITY OF NEW YORK DEPARTMENT OF ENVIRONM		WT.
No.	BUREAU OF ENVIRONMENTAL COMPLI 59 -17 JUNCTION BOULEVARD, 9 TH FLOOR, CORONA		
hristopher O.		55 R	obert C. Avaltroni,
mmissioner	^/	D	eputy Commissioner
2 dla D :	DEP AIR PERMITTING AMENDMENT (TO BE TYPED OR PRINTED)	PAGE 1	OF1
. /X/////	DEP AIR PERMITTING (TO BE TYPED OR PRINTED)		СВ1955/06Н
XUX	2001 MAR 26 A II: 45	INSTALLATION:_	
CM2,	1 (1001 MM 20 A 11-45	DATE:	3/9/07
130			
PREMISE A	ADDRESS:88 LEONARD STREET	MANHATTAN	
	TOTAL TIME		(BORO)
JBJECT TO ALL JREAU OF ENVI	THE DISAPPROVAL SHOULD BE MADE BELOW. THIS AMENDMENT IS TO ILL THE CONDITIONS, AGREEMENTS AND STATEMENTS CONTAINED THE TRONMENTAL COMPLIANCE AT THE ADDRESS ABOVE. IS NEEDED ADDITIONAL SHEETS MUST BE USED. NO ITEM CAN BE CONTAINED THE ON THE SHEET ON WHICH IT APPEARS. ONLY THOSE ITEMS THAT	REIN. RETURN THIS CO	MPLETED FORM TO THE THER SHEET: EACH ITEM
OTTOM OF THE	PAGE CAN BE CONSIDERED.		
) Set	The state of the s		
1	 CORRECT NYS P.E LICENCE NUMBER IS 43105. 	15 day overtones	
-	the first term was the control of th	marriagy or r	or Kond
8.11	AMENDMENT FEE OF \$60.00 IS PAID HEREWIT	Н. /	0.4
100	The Pepting and Concentrate Froter on a Co.	0065	184
	to the most exceed by the rate of Air Papawant \ \nD .	No.	
11		Reven	
•	Fae \$	N	1 4
	B.E.C. Clerks		\.
	· Committee of the comm	,	\\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
		Lozmal	رمالوق
		T	4/4-0/87
		" - /	1 11 denve
1 700	the second secon	// //	NSED89
		12/1	
	The state of the s	/ /	
P.E. OR R.A.		P.E. OR	
P.E. OK K.A.	GEORGE PEROTTO, P.E.	SEAL & STG	NATURE
14. C	The second secon	STARGEA	E8 (6)
NAME	42-18 235 STREET	1. 6 14	3 3
TOPET ADDRE	222	* " ==	命 °//
STREET ADDRE	DOUGLASTON, NY 11363	[] - man	
	STATE ZIP CODE	120	
CITY	SIALE	04310	
	A SEL RELIENT LICE ON	I V	
1	FOR DEPARTMENT USE ON	Li	
E ENCLOSED	: <u>S</u>	ON	DATE
MENDMENT	□ _{APPROVED}		
121.2	DISAPPROVED BY:		ALCOHOLD TO
	AR 355 (REV. 9/02)		40 6
	AK 333 (RE1.702)		A STATE OF THE STA
	· ·		
	700 A 100 A		NYC

59-17 Junction Boulevard, 9th ricor JOEL A. MIELE, SR., P.E., Commissioner

ROBERT C AVALTROM

RECORDS CONTROL UNIT (718) 595-3855

11/16/06

INSPECTION SET

88 LEONARD STREET

MANHATTAN

(BORO)

PROFESSIONAL CERTIFICATION

Being duly mindful of my responsibilities as a licenced Professional Engineer in the State of New York and acting as designated agent for the applicant, I hereby certify that the ລະນວະເດລtion, plans and all supplementary documents submitted in connection with this filing ere complete and fully comply with all applicable laws, codes, rules, regulations and lirectives of the Department of Environmental Protection, Bureau of Air Noise & Hazardous 'aterials (Formerly known as Bureau of Air Resources) of the City of New York in effect at ? time filed.

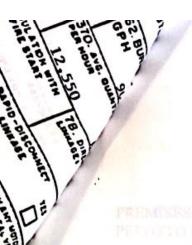
al & Signature

TIONS:

Pursuant to Engineering Directive # 1-78, this certification must be in triplicate with all APC 5-0, APC 5-R and APC5-PA applications and does ude the necessity to sign and seal the certification now contained on the forms. This certification shall also be submitted in triplicate with all APC 5-0 submitted and certified by a Professional engineer.

	,,	FOR CERTIFI	TION EQ		r. 11368	61 173	18/06 27 LDT LDT	C6-4/1	2A	0 0	0 0 A 0 0 A	
	MAME!	AY PROPERTIES			PEE: 00A	7.54F. V	FOR AGEN		ONLY		E APPLICATION RECEIVED	
	SER AND STR	40.000.001.01	LLC		RECEIPT \$.10	CASHIER		_ ::		1 1	
	00 WASHIN	GTON STREET	4		26. IDENTIFICATION		27, BATE APPLICATION OF THE PERSON OF T		28, FACILITY	Ë	Ö	
100	WARK	340 G/15 (18.	4, state NJ	07102	NSPECTO		L PERTINENT DETA ANY OTHER INFOR THE EXIGINATE IN Q TECTIVE JULY 1, 1	MATION NO EMTERIA 973 MUST	FOR PUEL BE BE INDICATE	HERE!	BUT REQUIRE	
	alayanin barriera arasi sa		HOSPITAL	L00. 07 E0		29 B.	TYPE OF CHIMNE		- 0		CHANDER	
4		EUTILITY 1X					TT 1 .	MAEUCIT		6	MO	
Owne	R OR OFFICER		TITLE		SO. ELEVATION AT		22. DELEAT ME	33. EMIN	MTA MAIDE		34.	
IX	_/	1/20	1309	VELGREEN CEO	AAQUND LEVEL	"	215		32		771	
provide and the price of the pr	reby affirm u ed on this for of the equipr	inder penalty of per m is true to the best o ment and/or apparat	jury that to imy knowle us concerne	ne information	34A. RAINCAP OR CO	OVER	35, EXIT VEL. (PE/SEC) 26.6		T FLOW RATE		37. 2. 0. 7.	
to file t	his application	d in accordance with I Code. I hereby out n on my behalf. I here shable as a Class A m	ph ocknowl	E. nomed herein	38. HOUCED DRAF	T PAN	41. PARTICULATE	EMISSION		IO2 EM	ISSION RATE	
-	OF OFFICER	T C Air Polution Cont	CODE B Sec	9. TELEPHONE	43, NO. EMISSION	RATE	44, TOTAL HEAT	MPUT I	TU F 104/H	1)	TO BEZERT	
	X /	1/1	_	973-849- 2630	2 0.04		25.2					
122	OF RE.	-	11	II. TELEPHONE	45, NAME OF MANU	PACTUR			SUDUNITHO	REC	ORDER	
GEC	RGE PERO	TTO, P.E.	10031	718- 746-1700		12	16.10		14	Ľ	Ö	
	ER AND STREE			4-1	46. HAME OF MANU		RER AND MODEL	MUMBER OF	F CONTINU-	0.000	PADER	
	18 235 S		111	Application of	300 001 001		LILENS A		11/1/10	Ë		
DOU	GLASTON	NY	113	63	47, HAME OF MANUE	ACTUR	ER AND WODEL NU	WBEA OF C	ONTINUOUS	YES	NO NO	
-	STATE U	PERCO	110	The same of			ВО	LER			28-27	
/	16 10	THE WYK	HOWLEDGE A	T TO THE BEST OF HD BELIEF TO THE E TECHNICAL							50. BOILER	
7371		APPL	JEATION COL	ANS AND ANY DATA SUBMITTED	TWO A NEW EX.					TYPE		
PLA	CESEAL			8 636 83 m.	51. BOILER MANUFA	-FED	ERAL #FST3	Meta 00	ALANCA MA		K_(1)	
ATE EE.		HONATURE OF PROF	BEIGHAL EN	AMEEN	SIA. TYPE OF BOIL	ER	1811203.00	1 1 1 1 1 1	51B.	CHECK	ERWORK COM	
78105		2 Pr	7	· 14 14	XX CAE	I IRON	HON STEAM HOT HE		.0		AMBER PLOOR: N	
PACILITY	HAME IN AM	vi '	$\overline{}$	JQ1	SIC. HEATING SURFA	CE IF	and the second second	51 D. 44	088 OUTPUT	-		
		2.7	A11	931		500		100000	BTU/HR 0043M			
). FACILITY		RD STREET	ADDRESS)		SIE GROSS OUTPUT RATE (OPH)	PIRING	W YES,COMPL	N BOULER ETE DETA	ROOM:	WENT	79	
●0=0 MANH	22. zip 10013	23. BLDG. SECTION OR NUMBER		MENT LOCATION	51 G. LEAD LAS BYS		TES M	MFO.	HEAT-T		Selec	
A.NO.OF	MO. OF APTE	. NO. OF ROOMS	TYPICAL	PLOOR AREA	51 H.		-	-	11		-	
1 1	328	1000	20,0	000			TYPE OF LOAD	ONBOIL	1		mended	
and the last of th		SSUED UNL ESS:			SPACE HEATM		DOM. HOT NgO	AIR CO	HOTTONING		190843 -D	
L APPROV	AL OF THE IN	BILITY ARE ON FILE	ORM OF A C	RTIFICATE OF	Δ xx	10	1-1	Σ		E		
ESENTATI	HAS BEEN VI VE OF THE DE	A Street	HE M.Y.C. A	R POLLUTION	I hereby cert ony supplemen to the equipme					n, plan	s and djustment	
NSTALL	EN		151,111								A. Mary	

52 4		two	GORDON I	PIATT #F16G0	75	No. of the		2
LMS/DAY 64.04	18/18 66. PUI	LATTE TO. AVE. BUAN	17 72.0UANT	TY/YR 363,HAS/DA	364.DAYS/YR	366. FUEL TYPE	370. AVG. O	ue.
3 125	12	180	67,50	00 3	125	77. FULL MODUL	12,550	
CONTRI	STION	74. DM-DFF 75.	LOW PIRE START	76. LOW-MISH	LDW-CFF WITH DW FIRE START	PROVEN LOW PIR	E START	78. DIN
9. MEH/LDW NO. MOTOR		MH r. to. M9174B	BO. FIRING	ICL TOTAL	MH L91A	T991		DISCONNECT TES
YE KONDEN	83.	SHROUDED SECONDARY	T X	A. PREPURSE AND		5. BURNER ELECTR LOUVER (S). MO TION FAMIS), IN PAM (S): YES	DUCED BRAF	PEAR), MECHANICAL VE FAMISI & PORCED D
DIL HAN	DI ING:	(FOR LOW SUL PUR-	OIL DALY EXCE	PT POR ITEMS WITH	100	OL MEATERS	WPA.	a serious series
A. STRAM HOT		-1	- 1 man	1		Heli A	CAT. HD.	
aT	\$3.3 %	CAPACITY:	4PH PE		L TEMP, RISE @		=	A. CAPACITY (EA) WA
T TOTAL		NON-CONTAME		AT VALVES TO	" <u> </u>), NO. OF AUXILIAN (ELECTRIC) HEAT	ZA .	The State of
TEMPERATURE	EDWIROL YES	E DETAILS!	YES X	MTERLOCK: YES		ERATURE GAUGES A. AN DETAILS: YE	95. 4 ADEO	NATELY INSULATED: Y
MAINTAIN BOILE	IN STEAM MES	TO MFR.	SAN SEPULING	• e	MATIC TEMPERA		The second second	MH L4006A.
GAS	97. MECHAN		ES 40	HAUST FANIS) IN	99. LOUVERE	D OPENING: SR	SO, IN.	EFFICIENCY NE
NDLING	G IN A WALL TO		VING A NET PREE	APEA OF 12 SQUARE	INCHES MER GAL	LON PER HOUR BA	ED ON THE	URNER OL DELIVERY
		THE DUTSIDE AIR HAI VERAGE INTERNAL CRI TO THE OPENING OF A				, THE NET PREE A	NEW OF THE	
ENTILATION DUC	T YES 40		IOI. LOUVER/		NO	lde e i	114	HOTRA CO
	(02 2420)	ETRIC DAMPER: MOM	NAL SUZZ MOMI	MAL AREA (103. P	WER OPERATED	DAAFT	WFA.	
FT CONT		** #	in.	0. IN R	BULATOR WITH	YES M		LEVELAND cdr-AFS-952
MPER	103B. AXIS-R	DO DE DAMPER IS OF THE	CONTROL ARM		OW PROVIDED ON INDICATE POSITION DAMPER YES	M THA WALL STO	BIZED AS	PLING LINES ADEQUA PER PLAN DETAILS: YES _X_
BIZE CLEANOUT	105. ACCES	S PORTS IN BREECHIN	C AND 106. SHO	E ALARY WITH BUSTION SHUTOFF:	YES HO	HEATIME	K	OT. AUDIO-VISUAL AL
CH : POQ /1 F10	1	YES X POST BEAT	AND THE RESERVE			CAT. NO.	11 10 3 1	PLAN DETAILS: Y
+	Parties of	050.018 0	EMISSI	ON CONTI	ROL			trus et 2 sa r
	A STATE OF THE PARTY OF THE PAR	111. TYPE 112	. MANUFACTURE	R AND MODEL NUM	et*	114, % Er		115. HOFER
117		TOTAL THE STATE OF	7 7/40 - 1 1 -	1 TO 1 1 TO 2 13		VI DOS-14	A I'M ONE RO	chart in or o
**************************************	4	410	FOR AGE	NCY USE ON	LY			
i n	Light a	a 125	(Alexander)	in alternati		, v	ORK P	ERMIT
ION CODE	144, 1.0.	NO. 145, UT M	(E) 146.	UTM (N) 14	7, SIC MANDER	151, DATE	ISSUED	152, EXPIRATION
111						10 - 10	C O A	PPROVAL
			7885			155. DATE		156. EXPRATION
PREMISES	IDENTIFI	CATION NO.	Translate to a		Treef	POR PERMIT	ONLY:	is in a set North
199		3		12115		CAL	1	
sou	RCE EMIS	. PT. NO.		Mary of the state		HEAD , FOSSIL P	UEL DIVISIO	A.
OP LIGHT	LOCATION	FACILITY		PT. UNIT	1	יות קון	200	an do
. LIEI	Court Court Fam		000) n	The second	100	Man Man
(Internal	Michigan	· ·	000	U A	1.00	MATET'S OF E	MOINEENING	



INSPECTION SET

METHOD OF BURNER OIL DELIVERY

The burner will be limited to its high firing rate by the use of an oil pressure regulating valve and an FRM-2 air pressure-regulating valve. Both valves will be set and permanently scaled by drilling and pinning for the specified oil burner delivery rate as listed below and connected in accordance with the oil piping schematic specified oil burner delivery rate as listed below and connected in accordance with the oil piping schematic diagram listed. Oil and air pressure gauges with gauge cocks will be installed to verify firing pressures as illustrated on the enclosed piping schematic.

Metering valve assembly	090222-70	90 will be supplied with	a special calibrated
metering scale to indicate p	ercentage of flow of	corresponding to valve position.	
A turndown ratio of the limits shown below.	5:1	will be provided by controlling the	fuel oil pressures between
	HOLES ARE P	ROVIDED IN THE BEEN	
OIL SYSTEM DATA: Oil System:	F8A-2	Oil Piping Diagram:	44-000227-40
OIL NOZZLE DATA:			
7	Monarc	h Nozzle No.	C169WA-100.00GPH
Manufacturer		T Time Oil Drace	15 psig
Hi Fire Oil Press.	30 psig	Tim Ain Dence	13 psig
Hi Fire Air Press.	25 psig	Tim Dalu Date	18 gph /
Hi Fire Dely. Rate	90 gpl	CONTINUE DESCRIPTION	
1	ALL A SHIPS AND	THE WALL BELL CHING	MAMILY EN FILE





INSPECTION SET

GEORGE PEROTTO, P.E. 42-18 235 STREET DOUGLASTON, NEW YORK 11363 (718)746-1700

PREMISES: 88 LEONARD STREET, MANHATTAN PEROTTO FILE #6118/06

THE CHIMNEY EXTENDS A MINIMUM DISTANCE OF 3 FEET ABOVE ALL CONSTRUCTION LOCATED WITHIN 10 FEET OF THE CENTERLINE OF THE CHIMNEY OUTLET.

THE MINIMUM RADIAL DISTANCE FROM THE CENTERLINE OF THE CHIMNEY TO AN ACCEPTALBE RECEPTOR IS 80.9 FEET.

3-5/16" DIAMETER HOLES ARE PROVIDED IN THE BREECHING APPROXIMATELY 4" APART AND PLACED SO THAT THE ONE CLOSEST TO THE BOILER IS APPROXIMATELY ONE BREECHING DIAMETER AND DOWNSTREAM FROM THE BOILER OUTLET. THEY WILL BE PLACED IN THE SYSTEM SUCH THAT AIR INFILTRATION FROM A BAROMETRIC DAMPER. SMOKE ALARM PORT, ETC. DOES NOT AFFECT THE COMPOSITION OF THE COMBUSTION CASES.

2-5/16" DIAMETER HOLES ARE PROVIDED IN THE BREECHING PLACED ONE ON EACH SIDE OF THE DRAFT REGULATOR DAMPER, APPROXIAMELTY ONE BREECHING DIAMETER FROM THE CENTERLINE OF THE DAMPER. DRAFT SAMPLING LINE TO BE 1 1/4" PIPE AND INSTALLED THROUGH THE FURNACE WALL WITH A FULL SIZE CLEAN-OUT PLUG.

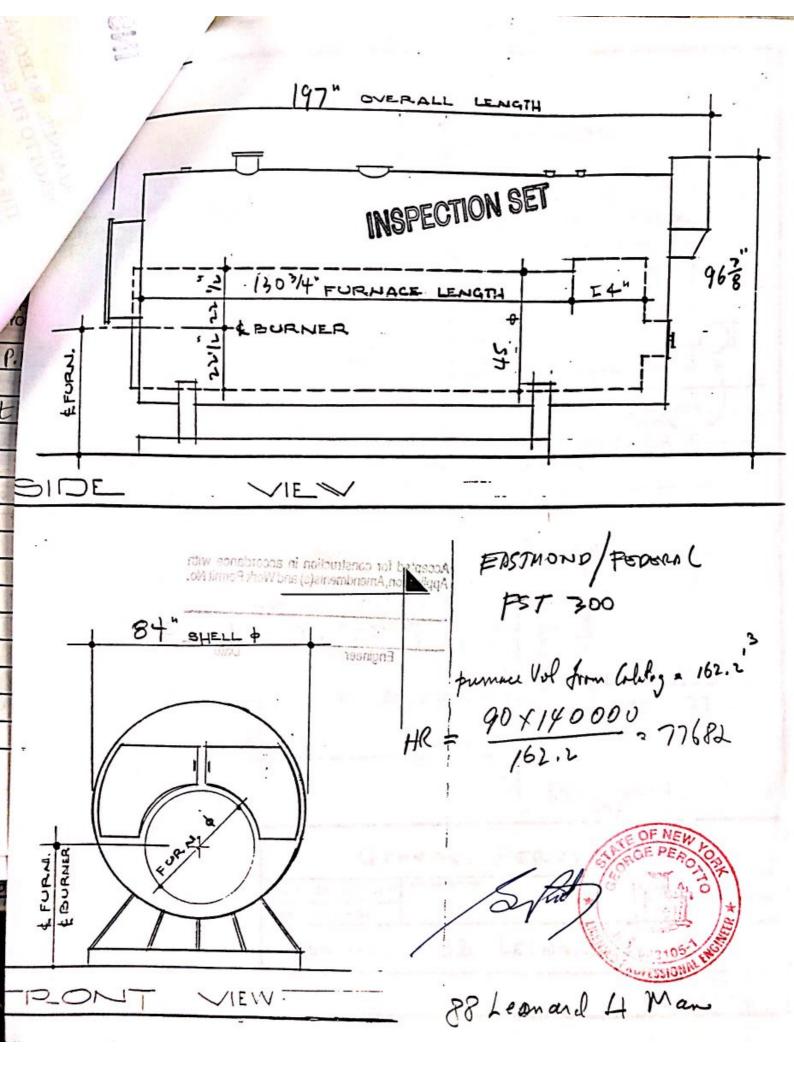
A 5/16" DIAMETER HOLE IS PROVIDED IN THE BREECHING WITHIN ONE BREECHING DIAMETER OF THE BREECHING CONNECTION TO THE STACK.

ALL TEST HOLES ARE A MINIMUM OF ONE BREECHING DIAMETER FROM ANY FLOW DISTURBANCE SUCH AS A BEND ETC. WHENEVER FEASIBLE.

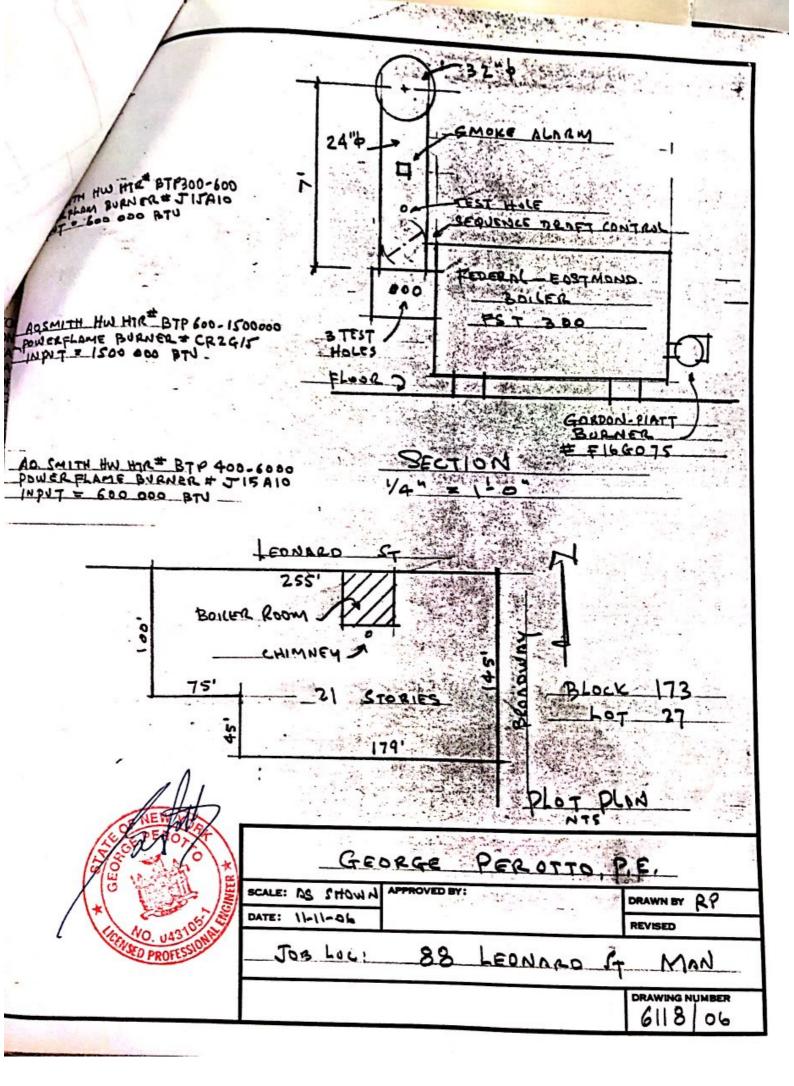
ANY INSULATION IS NEATLY REMOVED FROM APPROXIMATELY A 4"X4" AREA SURROUNDING ANY TEST HOLE IN THE BREECHING.

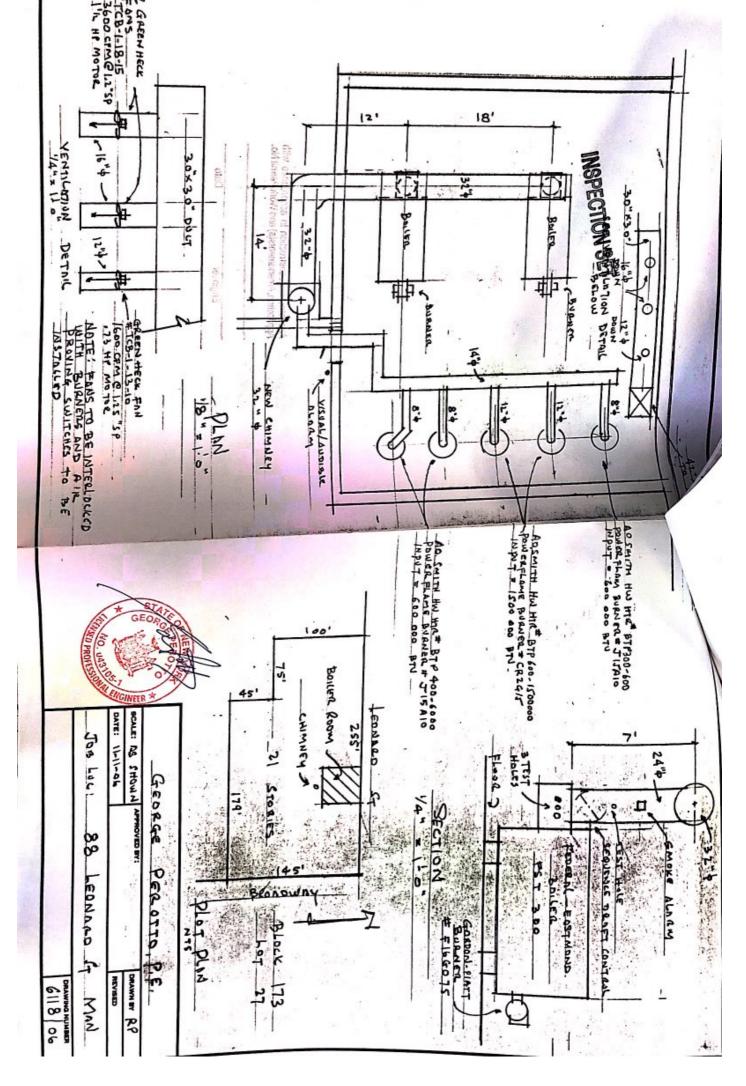
ALL TEST HOLES ARE KEPT CLOSED WITH A SHEET METAL SCREW OR OTHER ACCEPTABLE METHOD WHEN NOT BEING USED FOR TEST PURPOSES.. ALL TEST HOLES SHALL BE MARKED IN SUCH A WAY THAT THEIR LOCATION CAN BE READILY DETERMINED.

CLEAN-OUT TO BE PROVIDED IN THE BREECHING AT 15'-0" O.C. MINIMUM.



Scanned with CamScanner





Scanned with CamScanner



CITY OF NEW YORK DEPARTMENT OF ENVIRONMENTAL PROTECTION

BUREAU OF ENVIRONMENTAL COMPLIANCE 59 -17 JUNCTION BOULEVARD, 9TH FLOOR, CORONA, NEW YORK 11368

RECORDS CONTROL (718) 595 - 3855

Christopher O. Ward, Commissioner Robert C. Avaltroni, Deputy Commissioner

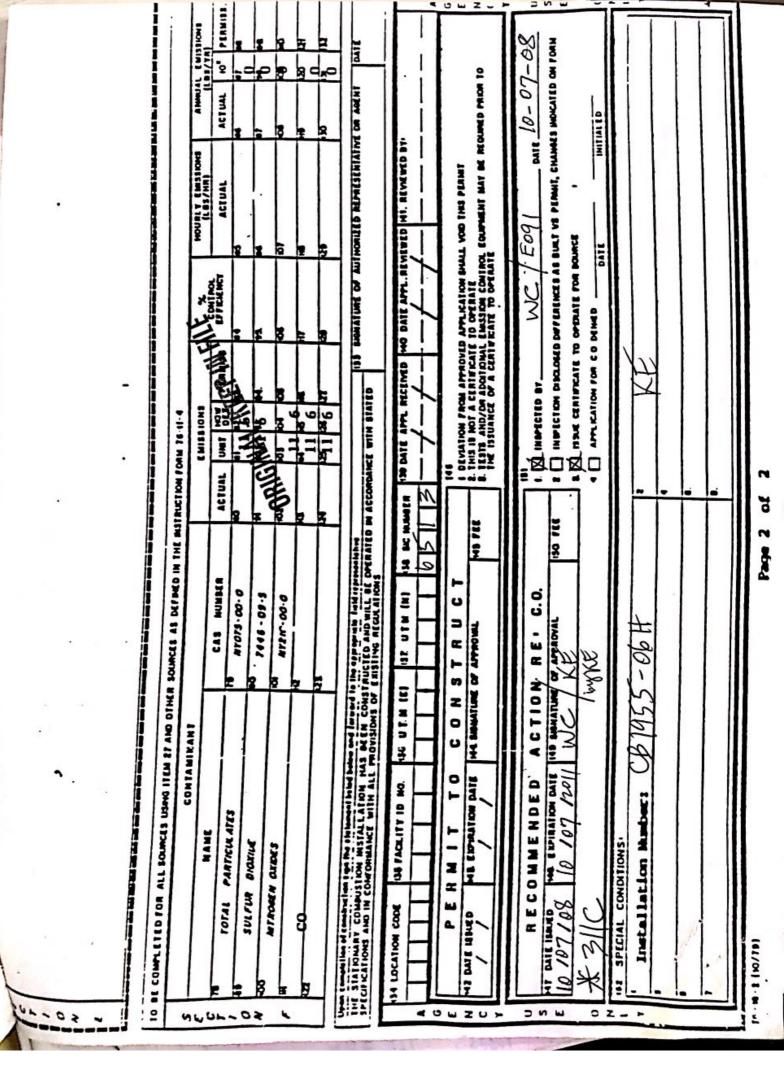
NOTICE OF APPLICATION PLANS DISAPPROVAL

DATE:	
APPLICATION #:	CB 1955-06H
343 Broadway Properties LLC George Perotto, P.1 100 Washington Street 42-18 235th S Newark, N.J 07102 Douglaston, NY	Ε.
100 Washington Street 42-18 235th S	treet
343 Broadway Properties LLC George Perotto, P.1 100 Washington Street 42-18 235th S Newark, N.J 07102 Douglaston, NY	11363
PREMISE ADDRESS: 88 Leonard Street	BORO: Manh.
THE APPLICATION FOR AN INSTALLATION, ALTERATION, OR LEGALIZATION FOR THE ABOVE PREFOR THE REASONS STATED BELOW. FAILURE TO COMPLY WITH THE STATED REQUIREMENTS WITH ABOVE DATE MAY RESULT IN THE CANCELLATION OF THE APPLICATION AND FORFEITURE CONFORCEMENT ACTIONS AGAINST THE OWNER. WHERE APPLICABLE, PLEASE COMPLETE THE REVERSE SIDE OF THE NOTICE AND RETURN TO DEP / RECORDS CONTROL UNIT, 59 - 17 JUNG CORONA, NEW YORK 11368.	OF ALL PAID FEES AS WELL AS HE AMENDMENT FORM ON THE
ONYS P.E. lic. No. on APC5-0 does not agree with	the No. on Stamp
2) Submit Amendment with \$60.00 fees	
·	
K t	
	ENGINEER NAME / NUMBER

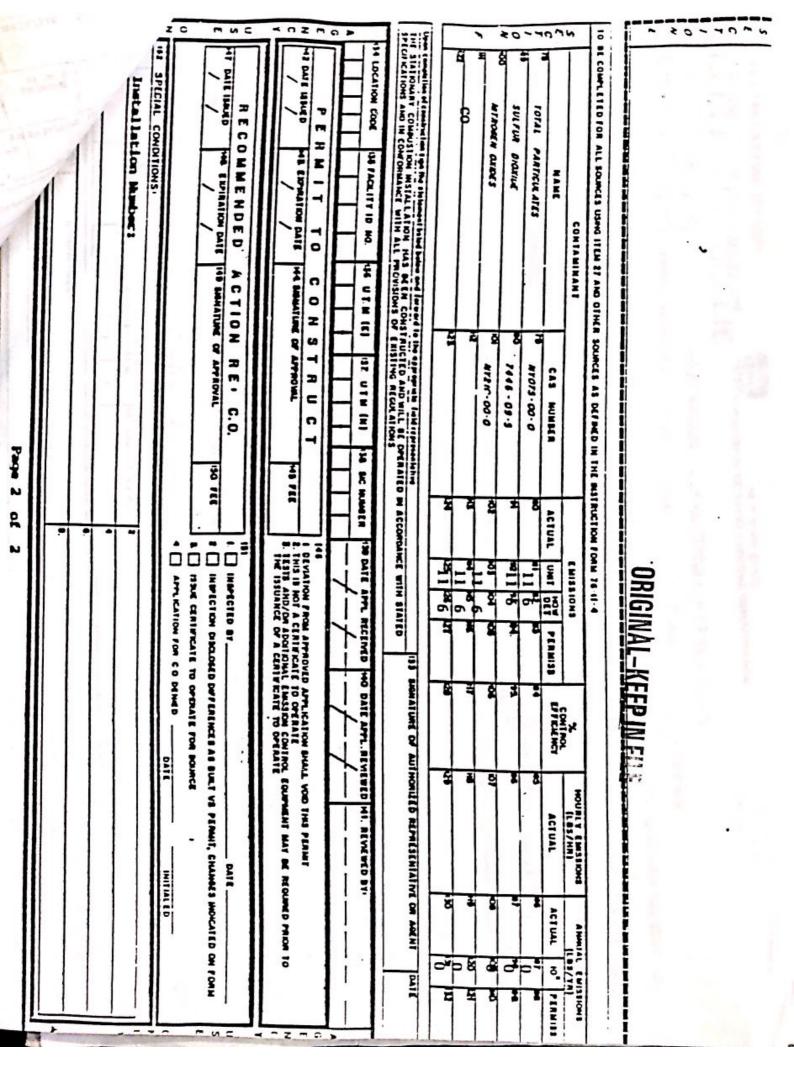
AR 357 (REV. 9/02)

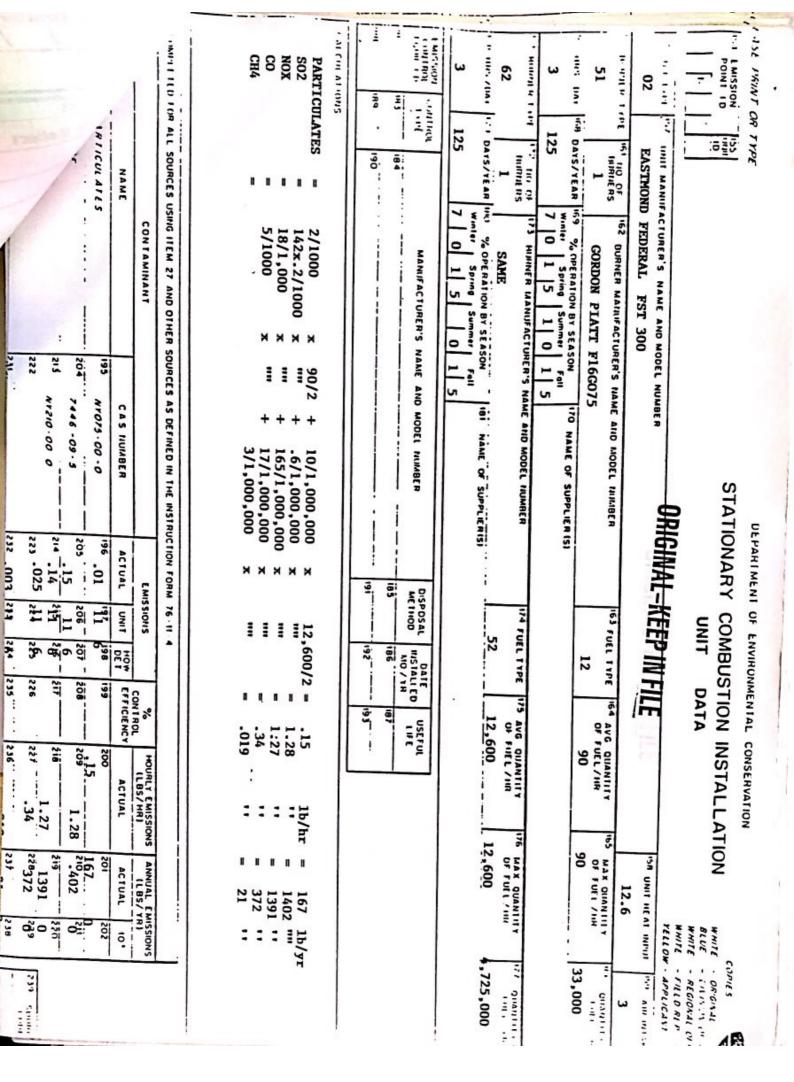
Scanned with CamScanner

Department of Invitormental Protection	RECEILT HAME IN DEFENDING SINCEL ADORESS 88 LEONARD STREET 81 LEUT-TOWN-VALLAGE MANHATTAN 8 EARLY DATE 1001 83 RELEGION HAME ON HAMEEN 8 EARLY DATE 1001 84 EARLY DATE 1001 85 RELEGION HAME 1001 85 RELEGION HAME 1001 86 LEONARD 1001 86 LEONARD 1001 86 LEONARD 1001 87 RELEGION HAME 1001 87 RELEGION HAME 1001 87 RELEGION HAME 1001 87 RELEGION 1001 10	OF FUEL/MY TUEL/TH	DISPOSAL MISTALLED USET 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
STATION NUMBER Control Control	PROPLEMENT COORDINATE CONTRIBUTION P.E. 746-1700 N. PINEET N. CEO N	Waller Spring Strates to Strate Spring Strat	3 2



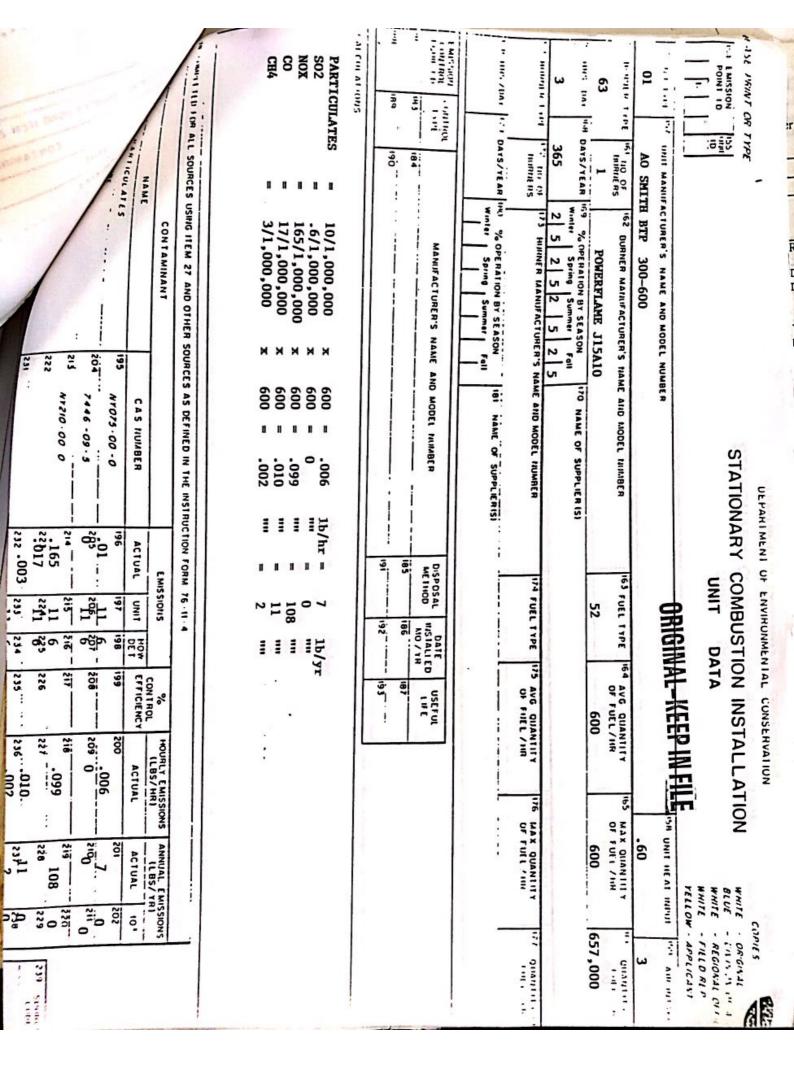
10	20	0			074		•	Jun	1			0 7	5	(auai	T.
=	THIS CONTROL	AT HER/DAY	Jaki Kreme w	H MAS / DAY S	Mil Brend to	341 100 8	E	MOST NO	ZVI BOYME	DOMENIAL DON	NEWARD	100 WASHINGTON	343 BROA	## ## ## ## ## ## ## ## ## ## ## ## ##	LOCALDH FACE
2		S. DATE/TEAN	2 10 C	BYALALAN EL	200		10	MOLVATTO GATOS DE	GREEN,	D TEDERAL	ATTAG	HINGTON STREET	BROADWAY PROP,	NCHIDAGO NA PROPERTY OF THE PROPERTY AND THE PROPERTY OF THE P	
	MANUFACTUREM N	Wale Spring	WITH UPPAING 26	Monta Section	AND KENAME SO	THE NAME OF STATE SALES OF THE PROPERTY OF THE	10	BI HEWIT ABOYE	CEO :	COUC HST. A	LANG	EET	LLC .		ITY EMISSION POWI
	NAME AND MODEL		BANDA ACTUMEN'S N	-[1 -[1 -[1 -[1 -[1 -[1] -[1] -[1] -[1]	HAMP SICHWITH HAME	1300 Ort	215	HIANGE IN	973- 849-2630	H HOBPITAL H HOBPITAL J OTHER	07102		,	STATIONARY COMBUSTION FOR PERMIT TO CONSTRUCT	
	WIENIN 1	43 NAME OF		24 HARE OF	8	Š.	32	DIMENSOR	is termine to conti	CE		11 HUMBER AM 42-18	GEORGE PEROTTO, P.E.	STATIONARY FOR PERMIT TO	DEPARTME
		OF SWPLKAIS		Of Smarting 19	BOOK! HAME!	23.5 200	400	Harinina France	WHAT SO	ORGE PEROTTO	NOTE - VILLA	42-18 235 STREET	GEORGE PEROTIO,	COMBUSTION O CONSTRUCT O	DEPARIMENT OF ENVIRONMENTAL
Contraction services		=	*	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		A TO	26.6				7 5		P.E.	S Z	
A COLUMN			M LMT IM	The same	47. FUEL 119E	A THE PART OF THE	8068155	31444	* O AK	25/19/	Y 11363	21	718 746	CERTIFICATE TO	CONSERVATION
A 200 - 10 - 10 - 10 - 10 - 10 - 10 - 10			2	The second secon		200 200 200 200 200 200 200 200 200 200		STATE HOLTEN		1700		10	718- 746-1700	ATION	2
Control of the contro			OF FUEL/HA	A A CHARLES	AYG QUANTITY	104 104 100 1	100	Temperature (18)	B HODE ICATION WITH ME IN SOURCE A HE IN S	12 /06	ST BILLIAMS MANE ON HUNSELY	88 LEONARD :	PACELITY LOCA	CERTIFICATE TO OPERATE	75
•			8 8 8	A JAPATA	NA C	â	ê	- 2	1	N Dave	C 000 HL	NARD STI			Environmental Protection
8	DISPOSAL		DE LIEFTHE		OF FUEL/MA	ALR WIAKE	MINORN OWE	A CONCIL		*	2 71	STREET	AIS ON E	O MOR TH	
	MSTALLED MSTALLED		200	1	SO QUAN	41 BOJACE	=		A MINE SOUNCE C	M CENTREME TO CHANGE	CELLAR		SO FACELLA FOCULOR INTRACTO AND SINCEL ADOMESTS		
	180	or services	LOCT / 13	Lens of these	PUEL/YN O	2		N E	i i	DE SUBMIT	N. S.	1001			





STATIONARY COMBUSTION INSTALLATION SMITH BY-600-L500,000 SMITH STATE CASCASS SOUTH AND CONTROL MARKE AND MODEL MARKE AND MODEL MARKETS 1 POPERSTANDE CASCASS 1 POPERSTANDE CASCASS 1 STATE OF THE STATE CASCASS 1	1.	. 311MM . 311MM . 311MM . 311MM
--	----	--

JAL INNI ON TYPE NOISSIM 1 į SHOLLY IN SIC. LONG STON 11200 110 " III". /IAI I'' DAYS/YEAR IN % OPERATION BY SEASON CH4 CO X **S02** PARTICULATES 1 2 2 341 L a 11.11 .11 1011 :: 1111 ---A11 1 1 11411111 MITTER FOR ALL SOURCES USING ITEM 27 AND OTHER SOURCES AS DEFINED IN THE INSTRUCTION FORM 76-11-4 E Ē TOPLITTE 515 ξ WH DAYS/YEAR : HINRIERS ITHIT MANIFACTURER'S NAME AND MODEL NUMBER Su Pragrat AO SMITH BTP400-6000 64 190 S 3 14 TOSIER NAME 169 % OPERATION BY SEASON *: 162 DURNER MAINIFACTURER'S NAME AND MODEL MIMBER * 5101 3/1,000,000 17/1,000,000 165/1,000,000 .6/1,000,000 10/1,000,000 POWERFLAME J15A10 HINNER MANUFACTURER'S NAME AND MODEL NUMBER CONTAMINANT MANUFACTURER'S NAME AND MODEL MIMBER Spring | Summer Spring | Summer 204 95 215 222 100 1 õ 181 NAME OF SUPPLIERIS Nr075 .00 -0 NAME OF SUPPLIERIS! 0 00 0121N 7446 -09 - 5 CAS NUMBER STATIONARY COMBUSTION INSTALLATION .099 .006 .010 .002 DEPARTMENT OF ENVIRONMENTAL CONSERVATION 11b/hr 1 0,02 1,,,,003 214 223.017 96 ACTUAL .165 19 ME THOD LIN 163 FUEL TYPE EMISSIONS 174 FUEL TYPE ORIGINAL-KEEP IN FILE 1 302 S 108 52 MY / ON MO / YH MO / YH 192 98 DATA OF FUEL /HR 64 235 208 CONTROL ğ. OF FUEL / HR 600 USEFUL % 209 236 227 200 (LBS/HR)002 ACTUAL099 .010 Ē THEN IN THE PLANT OF FUEL /HH OF FULL 'III 600 (LBS/ YR) 201 .60 ACTUAL TIME BLUE WHITE - REGIONAL CIT KELLOW . APPLICATI Trueson JIHA 0 115 202 - 141 M. M. 1" -SHIJES -1110 RIF 657,000 the title total Guardini . Suntilli. 11111 . 1.1. 239 Stune A 11111





CITY OF NEW YORK DEPARTMENT OF ENVIRONMENTAL PROTECTION

BUREAU OF ENVIRONMENTAL COMPLIANCE 1308

59 -17 JUNCTION BOULEVARD, 9TH FLOOR, CORONA, NEW YORK 1308

RECORDS CONTROL (718) 595 - 3855

Christopher O. Ward, Commissioner

Robert C. Avaltroni, Deputy Commissioner

NOTICE OF APPLICATION PLANS DISAPPROVAL

	DATE:
	APPLICATION #: CB 1955-06H
	0 11
343 Broadway Properties LLC G	reorge Perotto, P.E.
100 Washington Street 1	12-18 235th Street
343 Broadway Properties LLC G 100 Washington Street 1 Newark, N.J 07102	Douglaston, NY 11363
PREMISE ADDRESS: 88 Leonard Street	et
THE APPLICATION FOR AN INSTALLATION, ALTERATION, OR LEGAL FOR THE REASONS STATED BELOW. FAILURE TO COMPLY WITH THE ABOVE DATE MAY RESULT IN THE CANCELLATION OF THE APPLENFORCEMENT ACTIONS AGAINST THE OWNER. WHERE APPLICATIONS AGAINST THE OWNER.	E STATED REQUIREMENTS WITHIN SIXTY (60) DAYS FROM THE LICATION AND FORFEITURE OF ALL PAID FEES AS WELL AS CABLE, PLEASE COMPLETE THE AMENDMENT FORM ON THE
ONYS P.E. lic. No. on APC5-0 does	not agree with the No. on Stamp
2) Submit Amendment with \$60.	00 fees

	KE
AR 357 (RFV	ENGINEER NAME / NUMBER

Scanned with CamScanner

Lilker Associates

Consulting Engineers, P.C. 1001 Avenue of the Americas New York, N.Y. 10018 212 695-1000



DATE: 12/09/03

Cooling & Heating Load Summary

PROJECT: 88 LEONARD STREET, NYC

	GENERAL S	UMMART			HEATING SUMMARY		EARA	UST SUM	MART
FLOOR #	APT #	PEOPLE	AREA (SF)	TRANSMISSION (BTUH)	FORCED INFILTRATION (BTUH)	TOTAL HEATING (BTUH)	TOILET	KITCHEN	DRYER
FLOOR 2									
	1	1	282	3,843		15,247	50	100	0
	2	,	335	3,812	11,405	15,217	50	100	- (
	2	_	312	6,347	11,405	17,751	50	100	
	4	•	388	6,347	11,405	17,751	50	100	
	5	-	1018	17,969	7,603	25,602	100	0	
	6	•	1142	14,453	.,,,,,,,	22,056	100	0	-
	'	,	417	3,947	11,405	15,352	50	100	
	•	,	683	7,762		11,564	50	0	100
	9	,	339	3,592		14,907	50	100	
	10	1	389	3,329	11,405	14,734	60	100	
	SUB TOTAL	10	5,285	71,430	98,842	170,272	600	700	
LOORS 3									
-8	Ti .	1	971	20,987	7,803	28,570	100	1 0	
-8	2	1	533	7,324		11,126	50		_
-8	3	-	612	9,730		13.532	50	1 0	_
8	4	-	839	17,252		24,855	100		_
-8	5	-	508	13,975		17,776	50		_
8	6	- 1	548	5,441	1,807	9,242	30		-
8	7	1	393	5,035		16,440	50		-
-8	in .		501	7.521			50		_
-8	9	1	325	3,971			50		
8	10		538	7,588			50		
8	111		322	4.044			50		
-	12	-	375	5.053			50		
ě	13	1	378	5.053			50		
-	14		561	7,873			9		
	15	-	384	10.271			3		
8	16	-	445	8,163			9		
8	17	- '	615	10.523	.,,	100	- 5		
8	18	- 1	341	4,267	-,		1		
8	19	- 1	595	9,509			5		-
		- 1	354	3,983			-	0 10	
	20	1	503	9,568					-
8	21	1	326	4,267	-,		_	0 10	-
8	22	1		The second secon				_	
8	23	1	595	10,113				-	0
8 .	24	1	350	3.983				0 10	
	25	1	595	10,196					0
8	26	1	341	4,645				0 10	_
5	27	1	595	10,138				-	0
	SUB TOTAL	27	13,543	220253	197683	417936	14	50 11:	50
FLOORS	SUB TOTAL I	162	81,258	1,321,519	1,186,099	2,507,618	8.7	001 6.9	

FLOORS 2 TO 8

CORRIDOOR 1ST FLR CELLAR SUB CELLAR 2 9 TO 21

GRAND TOTAL

172 86,543 1,392,949 1,284,941 2,677,889 9,300 7,600

850,000 1,000,000 500,000 100,000 4,080,000 9,207,889

Cooling & Heating Load Calculations Lilker Associates 88 LEONARD STREET illing Engineers, P.C. ORIGINAL-KEEP IN FILE **NEW YORK, NY** 1001 Avenue of the Americas New York, NY 10018 DATE: 19-Jan-0 PROJECT: 282 0 FT POWER: 0 W FLOOR #: 2 × DIMENSIONS 10 FT 1 PEOPLE PEOPLE: 282 SF FLOOR AREA: RM TEMP: 74 DEG. F 9 33 FT 54 DEG F SA TEMP INTERIOR/PERIMETER: **ENVELOPE DATA** втин BTUH CLTD SHGF 00 00 WALL 0 65 35 0 57 0.82 GLASS 0 10 18 0 WALL 00 00 0 70 0 57 0 76 216 00 GLASS E 00 0.10 75 s WALL 692 16.0 0 65 149 0.82 70 67 0.57 0 10 18 0 00 WALL 0 0 65 0 57 082 216 00 GLASS 0 20 00 0 ROOF 0 2 00 085 0 0 1 00 SKYLIGHT 0.0 00 0 00 00 FLOOR 0 0.00 0 PARTITION 0.00 TOTAL AREA AND FERIMETERS 757 SUB TOTAL= SUB TOTAL= WALL AREA GLASS 5398 EXTERNAL LOAD TOTAL= AREA (SF 42 SENSIBLE LOAD LATENT LOAD INTERNAL COOLING LOAD BTUH ACTOR BTUH 250 250 0 200 0 200 OCCUPANTS 1 PEOPLE 1925 1 00 564 WATTS LIGHTING 34 WATTS 1 00 EQUIPMENT 0 10 1 00 RTUH 0 10 LATENT HEAT BTUH VENTILATION 0 CFM 450 GRAB 140 TD (OUTDOOR AIR) 7573 SUB TOTAL= SUB TOTAL= 200 VENT RATE: 0 CFMPERSON SAFETY= 757 20 SAFETY= ROOM AIR SENSIBLE LOAD= 8331 LATENT LOAD= 200 DEG F DELTA T: COOLING SUMMARY DATA HEATING DESIGN DATA TOTAL COOLING LOAD= 8551 70 DEG F RM TEMP: LOAD CFM = 386 01 CFWSF INFIL RATE: 6 DEG F OA TEMP 20 W/SF CFWSQ FT = 14 20 DEG F HW DEL T 64 DEG F DELTA T SH RATIO: 0.974 INDEX FOR VENTILATION= 5451 MIN. CODE SUPPLY AIR = 113 TONNAGE: 071 HEATING LOAD: TRANSMISSION & INFILTRATION MIN. CODE OUTSIDE AIR -267 BTUH TRANS (WALL+ROOF): AIR CHANGES/HR = TRANS (GLASS+SKYLITE): 460 BTUH INFILTRATION (GLASS AREA): 3493 BTUH SUB TOTAL FINAL CFM = 386 BASIS: LOAD **349 BTUH** 10% SAFETY: 3843 BTUH TOTAL TRANS & INIFIL HEATING SUMMARY DATA HEATING LOAD: FORCED INFILTRATION TOTAL WINTER HEATING 15247 CFM FACTOR WATER GPM = 15 TOILET 50 3456 1 08 6912 100 1 08 KITCHEN 1 08 GENERAL 0 0 0 1 08 STACK DRYER 10368 BTUH TOTAL SAFETY 1037 BTUH 11405 BTUH TOTAL FORCED INFILTRATION

Printed on 10/74/7305 of 8 45 AM

THE DA BORD -

FVIS LEANARDA VIS Leonard HVAC Load Calculations Edeon Parking

Printed on 10/24/2005 at 8:46 AM

F188 LEANARD\ US Leonard HVAC Load Calculations Edison Parler

ORIGINAL-KEEP IN FILE

Cooling & Heating Load Calculations
88 LEONARD STREET
MEW YORK NY Lilker Associates Consulting Engineers, P.C. 1001 Avenue of the Americ w York NY 10018 212 695-1000 DATE: 19-Jan-04 LIGHTING PROJECT: FLOOR #: 2 0 W POWER: 3120 FT DIMENSIONS 10 FT 1 PEOPLE APT #: 3 PEOPLE: FLOOR AREA 312 SF RM TEMP 74 DEG F 933 FT 54 DEG F SA TEMP INTERIOR/PERIMETER: TRANSMISSION SOLAR **ENVELOPE DATA** BTUH BTUH CLTD EX 0 10 0 65 150 0.82 00 00 0 0.57 GLASS 18 0 WALL E 0 00 00 0.65 0 0 0 57 0 76 216 00 00 GLASS E 0 10 180 53 WALL 0 65 1165 0 82 149 7800 16.0 112 0 57 GLASS 70 16 0 0 10 0 18 0 0 00 WALL W 0 87 0 170 0 65 0 216 0 0 57 082 00 GLASS 0 70 0.20 430 00 0 ROOF 0 247 0 0 85 1 00 SKYLIGHT 00 00 0 00 0 0 FLOOR 00 00 0 0 000 0 PARTITION 0 0.00 0 CEILING 0.0 0 TOTAL AREA AND PERIMETERS 1259 SUB TOTAL= SUB TOTAL = WALL AREA GLASS EXTERNAL LOAD TOTAL= 9059 AREA (SF) 112 SENSIBLE LOAD LATENT LOAD INTERNAL COOLING LOAD BTUH FACTOR ACTOR RTUH 250 2500 200 0 200 OCCUPANTS 1 PEOPLE 1 00 34 2130 1 00 LIGHTING 624 WATTS 34 0 0 WATTS 1 00 EQUIPMENT 0 10 1 00 SENS HEAT 0 LATENT HEAT BTUH 1.00 45 0 GR/LB 0 0 CFM VENTILATION 0 14 0 TD (OUTDOOR AIR) SUB TOTAL= 200 SUB TOTAL= 11440 VENT RATE: 0 CFMPERSON SAFETY= 20 SAFETY= 1144 SENSIBLE LOAD 12584 LATENT LOAD= 220 DELTA T. 200 DEG F **COOLING SUMMARY DATA HEATING DESIGN DATA** TOTAL COOLING LOAD= 12804 70 DEG F RM TEMP LOAD CFM = 583 0 I CFMSF INFIL RATE: OA TEMP 6 DEG F CFM/SQ FT = 19 20 DEG F LTG&PWR: 2.0 W/SF DELTA T 64 DEG F INDEX FOR VENTILATION= 6031 SH RATIO: 0.983 MIN. CODE SUPPLY AIR = 125 TONNAGE: 1.07 HEATING LOAD: TRANSMISSION & INFILTRATION MIN. CODE OUTSIDE AIR = 336 BTUH TRANS (WALL+ROOF). AIR CHANGES/HR = 12.0 TRANS (GLASS+SKYLITE): 4659 BTUH INFILTRATION (GLASS AREA): 774 BTUH SUB TOTAL 5770 BTUH FINAL CFM = 583 BASIS: LOAD SAFETY: 577 BTUH TOTAL TRANS & INIFIL 6347 BTUH **HEATING SUMMARY DATA** HEATING LOAD: FORCED INFILTRATION TOTAL WINTER HEATING . WATER GPM = 18 TOILET 3456 KITCHEN 6912 100 1 08 GENERAL 0 1 05 STACK 0 0 DRYER 0 1 08 TOTAL 10368 BTUH SAFETY 10% 1037 BTUH TOTAL FORCED INFILTRATION 11405 BTUH

Printed on 10/24/2005 at 5 46 ALE

F.188 LEANARDL 188 Leonard HVAC Load Calculations Edison Parlang

New York, N 212 695-1000		:		OR	IGINA	L-K	EEP II	V FTEE	ing & He	eating Load	Calcula HEONARI NEW	ations D STREET YORK, NY
PROJECT: DIMENSIONS FLOOR AREA CELLING HT: INTERIOR/PE	S: 10 A: 388 : 933	FT S SF S FT	×	388.0) FT		LIGHTING: POWER: PEOPLE: RM TEMP:	74 D	EOPLE EG. F	DATE: 19-J FLOOR #: 2 APT #:	lan-04	
arienday.	June 161		P				SA TEMP:	54 DE	G.F			
ENVELOPE D						SOLAR				TRANSMISSION		
	EXP	NUM	HT.	WTH	NETSF	SC	CLF	SHGF	BTUH	CLTD	U	BTUE
WALL	N	0	00	00								2000000
GLASS	N	0	00	00		0.57	0.83		اء	11.0	0.10	0
WALL	E	0	00	00		0.51	0.82	35	۰۱	150	0.65	0
GLASS	E	ō	0.0	00		0 57	0.76	216		180	0 10 2a 0	0
WALL	S	i	87	19 0				216	-1	180	0.65	95
GLASS	S	1	70	160		0 57	0.82	149	7800	160	0.65	95 1165
WALL	W	0	8.7	00		-		146	,,,,,	180	0.05	1165
GLASS	W	0	7.0	00		0 57	0 82	216	0	17.0	0 65	Č
ROOF		0	0.0	0.0		-			1	43.0	0.20	
SKYLIGHT		0	0.0	0.0		100	0 85	247	۰	43.0	2.00	,
FLOOR		0	0.0	0.0	o			9/3/		0	0.00	č
PARTITION		0	0.0	0.0	0				- 1		0.00	
CELING		0	0.0	0.0		-				ŏ	0.00	- 6
TOTAL AREA		TERS										
WALL AREA	GLASS				7		SUE	TOTAL=	7800	SUB	TOTAL=	125
(SF)	AREA (SF)				1				EXT	ERNAL LOAD T		9059
53	112	i.			10							
NTERNAL CO	OLING LOAI					LATENT I	CAD			SENSIBLE LOAD		
				CLF				FACTOR	BTUH		FACTOR	BTU
OCCUPANTS		PEOPLE		1.00	. 11			200 0	200		250 0	25
LIGHTING		WATTS		1 00	- 17				-		3.4	264
EQUIPMENT		WATTS		1.00	- 11						3.4	204
SENS HEAT		BTUH		1.00	- 17			•	-		10	
ATENT HEAT		втин		1.00			-	10	0			
	0 1	CFM	450 0	TO A R				07				
		A 100	14.0 T		- 11			0,	0		•	
					11		SUR	TOTAL=	200		1.1	
OUTDOOR AIR)	200	CFMPERSO	. Par					SAFETY=	200		TOTAL=	1195
OUTDOOR AIR)	200	CFMPERSO			- 11		,				SAFETY=	119
OUTDOOR AIR) ENT RATE: ROOM AIR	200								20			
OUTDOOR AIR) ENT RATE: ROOM AIR	0 0							TLOAD=	220	SENSIBL		1315
OUTDOOR AIR) ENT RATE: ROOM AIR DELTA T:	200 0						LATEN	TLOAD=	220			1315
OUTDOOR AIR) /ENT RATE: ROOM AIR DELTA T:	0 C 200 C GN DATA						LATEN		220 ATA	SENSIBL	E LOAD=	
PEATING DESIGNATION OUTDOOR AIR) VENT RATE: ROOM AIR DELTA T: EATING DESIGNATION OA TEMP:	0 C 200 C GN DATA 70 D	DEG F		PATE:	01 CF	Wee .	LATEN	TLOAD=	220 ATA	SENSIBLE OTAL COOLING	E LOAD=	133
OUTDOOR AIR) PENT RATE: ROOM AIR DELTA T: EATING DESK! RM TEMP;	0 C 200 C GN DATA 70 D 6 D	DEG F	INFIL	L. RATE:	0.1 CF		COOLING S	T LOAD=	ATA TO	SENSIBLE OTAL COOLING	LOAD=	1337
OUTDOOR AIR) VENT RATE: ROOM AIR DELTA T: EATING DESK! RM TEMP: O A TEMP: DELTA T:	0 C 20 D D GN DATA 70 D 6 D 64 D	DEG F DEG F DEG F	INFI	V DEL T:	0.1 CF 20 DE		COOLING S	UMMARY DA	ATA TO	SENSIBLE OTAL COOLING LOA CFM	LOAD=	1337
OUTDOOR AIR) VENT RATE: ROOM AIR DELTA T: EATING DESK! RM TEMP: O A TEMP: DELTA T:	0 C 20 D D GN DATA 70 D 6 D 64 D	DEG F DEG F DEG F	INFI	V DEL T:	17.7.7.7.		COOLING S	UMMARY DA	ATA TO	OTAL COOLING LOA CFM INDEX FOR VENT	LOAD= LOAD= LO CFM = LATION=	1337 60 1 750
OUTDOOR AIR) VENT RATE: ROOM AIR DELTA T: EATING DESK RM TEMP: O A TEMP: DELTA T: EATING LOAD: RANS (WALL+R	GN DATA 70 D 64 D 1: TRANSMIS: ROOFE	DEG F DEG F DEG F	INFIL HW	V DEL T:	17.7.7.7.		COOLING S	UMMARY DA	ATA TO	OTAL COOLING CFM INDEX FOR VENTI MIN. CODE SUPP	LOAD= LOAD= LOAD= LOAD= LOAD= LATION= PLY AIR =	1337 60 1 750
OUTDOOR AIR) VENT RATE: ROOM AIR DELTA T: EATING DESK RM TEMP: O A TEMP: DELTA T: EATING LOAD: RANS (WALL+R	GN DATA 70 D 64 D 1: TRANSMIS: ROOFE	DEG F DEG F DEG F	INFIL HW ILTRATION 336 B	V DEL T:	17.7.7.7.		COOLING S	UMMARY DA	ATA TO	OTAL COOLING CFM INDEX FOR VENTI MIN. CODE SUPP MIN. CODE OUTSI	LOAD=	1333 60 1 750
OUTDOOR AIR) VENT RATE: ROOM AIR DELTA T: EATING DESK! RM TEMP: O A TEMP: DELTA T: EATING LOAD: RANS (WALL-FRANS (GLASS+	0 C 20 0 C 30 DATA 70 D 6 D 64 D 1: TRANSMIS: ROOF): +SKYLITE):	DEG F DEG F DEG F DEG F	INFIL HW ILTRATION 336 B 4659 B	DEL T:	17.7.7.7.		COOLING S	UMMARY DA	ATA TO	OTAL COOLING CFM INDEX FOR VENTI MIN. CODE SUPP	LOAD=	1337
OUTDOOR AIR) /ENT RATE: ROOM AIR DELTA T: EATING DESIGN RM TEMP; O A TEMP:	0 C 20 0 C 30 DATA 70 D 6 D 64 D 1: TRANSMIS: ROOF): +SKYLITE):	DEG F DEG F DEG F DEG F	INFIL HW ILTRATION 336 B 4659 B 774 B	TUH TUH TUH	17.7.7.7.		COOLING S	UMMARY DA	ATA TO	OTAL COOLING CFM INDEX FOR VENTI MIN. CODE SUPP MIN. CODE OUTSI	LOAD=	1333 60 1 750
OUTDOOR AIR) FENT RATE: ROOM AIR DELTA T: FEATING DESK RM TEMP: DELTA T: FEATING LOAD: RANS (WALL+F RANS (GLASS+ FILTRATION (G) JB TOTAL:	GN DATA 70 D 6 D 64 D : TRANSMIS: ROOF): *SKYLITE): GLASS AREA	DEG F DEG F DEG F DEG F	INFIL HW 338 B 4659 B 774 B	TUH TUH TUH TUH TUH	17.7.7.7.		LTG&PWR: SH RATIO: TONNAGE:	2.0 W/ 0.984 1.11	220 ATA TO	SENSIBLE OTAL COOLING LOA CFM INDEX FOR VENTI MIN. CODE SUPP MIN. CODE OUTSI AIR CHANG	LOAD=	1333 60 1 755 15 10
OUTDOOR AIR) FENT RATE: ROOM AIR DELTA T: FEATING DESK RM TEMP: O A TEMP: DELTA T: FEATING LOAD: RANS (WALL+F FILTRATION (C) JB TOTAL: VFETY:	GN DATA 70 D 64 D 64 D 1: TRANSMIS: ROOF): *SKYLITE): GLASS AREA	DEG F DEG F DEG F DEG F	INFIL HW 338 B 4659 B 774 B 6770 B	TOH TUH TUH TUH TUH TUH	17.7.7.7.		LTG&PWR: SH RATIO: TONNAGE:	UMMARY DA	220 ATA TO	SENSIBLE OTAL COOLING LOA CFM INDEX FOR VENTI MIN. CODE SUPP MIN. CODE OUTSI AIR CHANG	LOAD=	1333 60 1 750
OUTDOOR AIR) FENT RATE: ROOM AIR DELTA T: EATING DESK RM TEMP: DATE TO A TEMP: DELTA T: EATING LOAD: RANS (GLASS* FILTRATION (C	GN DATA 70 D 64 D 64 D 1: TRANSMIS: ROOF): *SKYLITE): GLASS AREA	DEG F DEG F DEG F DEG F	INFIL HW 338 B 4659 B 774 B	TOH TUH TUH TUH TUH TUH	17.7.7.7.		LTG&PWR: SH RATIO: TONNAGE:	2.0 W/ 0.984 1.11	220 ATA TO	SENSIBLE OTAL COOLING LOA CFM INDEX FOR VENTI MIN. CODE SUPP MIN. CODE OUTSI AIR CHANG	LOAD=	1333 60 1 755 15 10
OUTDOOR AIR) FENT RATE: ROOM AIR DELTA T: EATING DESK! RM TEMP: DELTA T: EATING LOAD: RANS (WALL+F RANS (GLASS+ FILTRATION (C) JB TOTAL: UFETY: DTAL TRANS &	GN DATA 70 D 64 D 1: TRANSMIS: ROOF): *SKYLITE): GLASS AREA 10%	DEG F	INFIL HM 338 B 4659 B 774 B 5770 B 577 B	TOH TUH TUH TUH TUH TUH	17.7.7.7.		LATEN COOLING S LTG&PWR: SH RATIO: TONNAGE:	2.0 WA 0.984 1.11 BASIS: LO	ATA TO	SENSIBLE OTAL COOLING LOA CFM INDEX FOR VENTI MIN. CODE SUPP MIN. CODE OUTSI AIR CHANG	LOAD=	133 60 1 755 11
CUTDOOR AIR) FENT RATE: ROOM AIR DELTA T: EATING DESK RM TEMP: DELTA T: EATING LOAD: FRANS (WALL+F RANS (GLASS+ FILTRATION (G JB TOTAL: UFETY: DTAL TRANS T	GN DATA 70 D 64 D 1: TRANSMIS: ROOF): *SKYLITE): GLASS AREA 10% LINIFIL FORCED IN	DEG F	INFIL HM 338 B 4659 B 774 B 5770 B 577 B	TOH TUH TUH TUH TUH TUH	17.7.7.7.		LATEN COOLING S LTG&PWR: SH RATIO: TONNAGE:	2.0 W/ 0.984 1.11	ATA TO SF	SENSIBLE OTAL COOLING LOA CFM INDEX FOR YENTI MIN. CODE SUPP MIN. CODE OUTS AIR CHANG	LOAD=	133 60 1 755 1! 10
CUTDOOR AIR) FENT RATE: ROOM AIR DELTA T: EATING DESK RM TEMP: DELTA T: EATING LOAD: FRANS (WALL+F RANS (GLASS+ FILTRATION (G JB TOTAL: UFETY: DTAL TRANS T	GN DATA 70 D 64 D 1: TRANSMIS: ROOF): *SKYLITE): GLASS AREA 10% LINIFIL FORCED IN	DEG F	INFIL HM 338 B 4659 B 774 B 577 B 577 B	TOH TUH TUH TUH TUH TUH	17.7.7.7.		LATEN COOLING S LTG&PWR: SH RATIO: TONNAGE:	2.0 WA 0.984 1.11 BASIS: LO	ATA TO SF	SENSIBLE OTAL COOLING LOA CFM INDEX FOR YENTI MIN. CODE SUTSI AIR CHANC FINAL	LOAD= LOAD= LO CFM = LO CFM = LOAD=	133 600 1 1 755 11: 1 100
OUTDOOR AIR) FENT RATE: ROOM AIR DELTA T: FEATING DESK RM TEMP: O A TEMP: DELTA T: FEATING LOAD: RANS (WALL+F FILTRATION (C) JB TOTAL: VFETY:	GN DATA 70 D 6 D 64 D 1: TRANSMIS: ROOF): +SKYLITE): GLASS AREA 10% LINIFIL 10% CFM F.	DEG F	INFIL HW 338 B 4659 B 774 B 577 B 5347 B	TOH TUH TUH TUH TUH TUH	17.7.7.7.		LATEN COOLING S LTG&PWR: SH RATIO: TONNAGE:	2.0 WA 0.984 1.11 BASIS: LO	ATA TO SF	SENSIBLE OTAL COOLING LOA CFM INDEX FOR YENTI MIN. CODE SUTSI AIR CHANC FINAL	LOAD=	133 60 1 755 1! 10
OUTDOOR AIR) FENT RATE: ROOM AIR DELTA T: FEATING DESK RM TEMP: DELTA T: FEATING LOAD: FRANS (WALL+F RANS (GLASS+ FILTRATION (G JB YOTAL: UFETY: DTAL TRANS &	GN DATA 70 D 64 D 64 D 65 SYLITE): GLASS AREA 10% EINIFIL FORCED IN CFM F	DEG F	INFIL HW 338 B 4659 B 774 B 6770 B 6347 B N BTUH 3456 6912	TOH TUH TUH TUH TUH TUH	17.7.7.7.		LATEN COOLING S LTG&PWR: SH RATIO: TONNAGE:	2.0 WA 0.984 1.11 BASIS: LO	ATA TO SF	SENSIBLE OTAL COOLING LOA CFM INDEX FOR YENTI MIN. CODE SUTSI AIR CHANC FINAL	LOAD= LOAD= LO CFM = LO CFM = LOAD=	133 00 1 1 755 11 10 60
CUTDOOR AIR) FENT RATE: ROOM AIR DELTA T: EATING DESK: RM TEMP: O A TEMP: DELTA T: EATING LOAD: RANS (WALL+F RANS (WALL+F FILTRATION (G JE TOTAL: UFETY: DTAL TRANS & EATING LOAD: DELTA T: EATING LOAD: DELTA TOTAL: DELTA TOT	GN DATA 70 D 64 D 1: TRANSMIS: ROOF): *SKYLITE): GLASS AREA 10% LINIFIL : FORCED IN CFM 50 100 0	DEG F	INFIL HAVE 138 BY 4659 BY 774 BY 6770 BY 6347 BY N BTUH 3456 6912 0	TOH TUH TUH TUH TUH TUH	17.7.7.7.		LATEN COOLING S LTG&PWR: SH RATIO: TONNAGE:	2.0 WA 0.984 1.11 BASIS: LO	ATA TO SF	SENSIBLE OTAL COOLING LOA CFM INDEX FOR YENTI MIN. CODE SUTSI AIR CHANC FINAL	LOAD= LOAD= LO CFM = LO CFM = LOAD=	133 00 1 1 755 11 10 60
OUTDOOR AIR) FENT RATE: ROOM AIR DELTA T: EATING DESK! RM TEMP: DELTA T: EATING LOAD: RANS (WALL+F RANS (GLASS+ FILTRATION (C) DETAT: DEATING LOAD: FILTRATION (C) FILTATION (C) FILTRATION (C	GN DATA 70 D 64 D 1: TRANSMIS: ROOF): SKYLITE): GLASS AREA 10% EINIFIL 107 CFM F 50 100 0	DEG F	INFIL HAVE 338 B 4659 B 774 B 577 B 577 B 6347 B N BTUH 3456 6912 0	TOH TUH TUH TUH TUH TUH	17.7.7.7.		LATEN COOLING S LTG&PWR: SH RATIO: TONNAGE:	2.0 WA 0.984 1.11 BASIS: LO	ATA TO SF	SENSIBLE OTAL COOLING LOA CFM INDEX FOR YENTI MIN. CODE SUTSI AIR CHANC FINAL	LOAD= LOAD= LO CFM = LO CFM = LOAD=	133 0 1 75 1 10
CUTDOOR AIR) FENT RATE: ROOM AIR CELTA T: EATING DESK: O A TEMP: DELTA T: EATING LOAD: FILTRATION (C) JB TOTAL: VETY: DTAL TRANS & CATING LOAD: CELET TICHEN TICHEN THERAL ACK YER	GN DATA 70 D 64 D 1: TRANSMIS: ROOF): *SKYLITE): GLASS AREA 10% LINIFIL : FORCED IN CFM 50 100 0	DEG F	INFIL HM 338 B 4659 B 774 B 577 B 6347 B N BTUH 3456 6912 0 0	V DEL T:	17.7.7.7.		LATEN COOLING S LTG&PWR: SH RATIO: TONNAGE:	2.0 WA 0.984 1.11 BASIS: LO	ATA TO SF	SENSIBLE OTAL COOLING LOA CFM INDEX FOR YENTI MIN. CODE SUTSI AIR CHANC FINAL	LOAD= LOAD= LO CFM = LO CFM = LOAD=	133 0 1 75 1 10
EATING DESK EATING DESK EATING DESK EATING DESK EATING DESK EATING LOAD: EATING LOA	GN DATA 70 D 6 D 64 D 1: TRANSMIS: ROOF): PSKYLITE): GLASS AREA 10% LINIFIL FORCED IN CFM F 50 100 0 0	DEG F	INFIL HW 338 B 4659 B 774 B 577 B 577 B 6347 B N BTUH 3456 6912 0 0	V DEL T:	17.7.7.7.		LATEN COOLING S LTG&PWR: SH RATIO: TONNAGE:	2.0 WA 0.984 1.11 BASIS: LO	ATA TO SF	SENSIBLE OTAL COOLING LOA CFM INDEX FOR YENTI MIN. CODE SUTSI AIR CHANC FINAL	LOAD= LOAD= LO CFM = LO CFM = LOAD=	133 60 1 1 755 116 60
OUTDOOR AIR) FENT RATE: ROOM AIR DELTA T: EATING DESK! RM TEMP: DELTA T: EATING LOAD: RANS (WALL-F FILTRATION (C) JE TOTAL: DETTY: DELTA T: EATING LOAD: DELTA TIME LOAD: DEL	GN DATA 70 D 64 D 64 D 65 ST	DEG F	INFIL HM 338 B 4659 B 774 B 577 B 6347 B N BTUH 3456 6912 0 0	V DEL T:	17.7.7.7.		LATEN COOLING S LTG&PWR: SH RATIO: TONNAGE:	2.0 WA 0.984 1.11 BASIS: LO	ATA TO SF	SENSIBLE OTAL COOLING LOA CFM INDEX FOR YENTI MIN. CODE SUTSI AIR CHANC FINAL	LOAD= LOAD= LO CFM = LO CFM = LOAD=	133 6 75 1 10

Lilker A	Associ	ates		•	ומו	2 I N I A I	VEI	DINI	eff@	ling & Hea	ating Load	Calculat	ions
Consulting Er					וחע	JINAL	-NCI	r IIV I				88 LEONARD S NEW YO	TREET RK, NY
1001 Avenue New York, N ' 212 595-1000	Y 10018									•		.210	
	(30)								2 W		DATE: 19	les 04	
PROJECT:	7	10 FT		×	1018 0	-		IGHTING: POWER:	0 V		FLOOR #: 2	Janes	11:
FLOOR ARE		018 SF		*	1018 0	F1		PEOPLE:		EOPLE	APT #:	5	- 11
CEILING HT:	-	9 33 FT				- 1		M TEMP:		EG. F			- 11
INTERIOR/PE	ERIMETE	R:	P	·			8	A TEMP:	54 0	EG. F			—1
				-							TRANSMISSION		.
ENVELOPE I	EXP	NU	м	нт	WTH	NETSF	SOLAR	CLF	SHGF	втин	CLTD	0	втин
WALL			۰	0.0	0.0	۰	1			- 1	11.0	0.10	ااه
GLASS	N		ő	00	00	ő	0 57	0.82	35	0	150	0.65	0
WALL	E		ō	00	00	ŏ		5 2 (202)			180	0.10	9
GLASS	E		0	00	00	0	0 57	0 76	216	0	70	0.65	-011
WALL	S		1	87	41 5	132	2000				180	0 10 0 65	237
GLASS	s		1	70	32 5	228	0.57	0.82	149	15844	160	0.10	401
WALL GLASS	w		1	87 70	33 0	223 63	0.57	0.82	216	6360	170	0 65	696
ROOF	••			00	00	63	337	0.02	2.0		430	0 20	0
SKYLIGHT			0	00	0.0	ő	1.00	0 85	247	0	2	200	0
FLOOR			0	0.0	0.0	0	1 20700				0	0 00	0
PARTITION			0	0.0	00	177	1			1	0	000	
CEILING			0	00	0.0	0					0	000	
TOTAL AREA			RS					ena ena	TOTAL=	22204	- 5	UB TOTAL=	3701
WALL AREA								305	10174-		ERNAL LOAL		25905
(SF) 355	AREA 20												
							LATENT L	040			SENSIBLE LO	AD	
INTERNAL C	COOLING	LOAD			CLF		CATERILE		FACTOR	BTUH		FACTOR	BTUH
OCCUPANTS	s	1 PE	OPLE		1 00				200 0	200		250.0	250
LIGHTING	2	036 WA	TTS		1 00	0.0			-	•	1	3.4	6951
EOUPMENT		O WA			1 00	92.	1		•	-1	1	3.4 1.0	8
SENS HEAT	00170	ВТ	7.1.7		100	120			10		1	1.0	٠,
LATENT HEA	AT .	ВП	UH		100								
VENTILATION	N	0 CF	м	450	GR/LB				07	0			-
(OUTDOOR A				140	TD	- 1	1				1 .	1.1	0
VENT RATE:	:	0 CF	MPERS(ON			1		TOTAL=	200	1 '	SAFETY=	33106 3311
ROOM AIR	100					- 1	1	0.7	TLOAD=	20	SENS	SAFEIT=	35416
DELTA T:		20 0 DE	G F	_				DATER	T COND-	220	3610	DECE COND-	33110
HEATING DE	BICH P	T.A.						COOLINGS	UMMARY	DATA			
RM TEMP		70 DE	G.F							T	OTAL COOL	NG LOAD=	36636
QA TEMP		6 DE		INI	FIL RATE	0.1	CFWSF	1				LOAD CFM =	1686
DELTAT		64 DE	3.5		W DEL T	T	DEG F	LTG&PWR:	20	W/SF		CFM/SQ FT =	17
DEE:141								SH RATIO:	0 994		INDEX FOR VI		19678
HEATING LO	AD: TRA	NSMISS	ON & IN	FILTRATIO	ON			TONNAGE:	3.05		MIN. CODE 9		407
TRANS (WAL				2270	втон	7		1				UTSIDE AIR =	136
TRANS (GLA					BTUH	1					AIR C	IANGESHR =	10.7
INFLTRATIO		S AREA)			втин	1							
SUB TOTAL:					BTUH	4			BASIS:	LOAD	E 1	NAL CFM =	1686
SAFETY:	E 7 E	10%			BTUH	-			andia.	LUNU		THE OTHER	
TOTAL TRAN	NO 6 INI			1/999	BIUN	J							
HEATING LO						_		HEATING S	SUMMAR	Y DATA	TOTAL WARE	ER HEATING =	2560
	CF	37.	CTOR	BTUH		1						WATER GPM =	2
TOILET		100	1.08	6912									
KITCHEN		0	1.08	0									
GENERAL		0	1.08			1							
GTACY		u	1 00	U		1							
		7.7%	1.00			1							
DRYER		0	1 08	6912		4							
STACK DRYER TOTAL SAFETY:		0	1 08	6912	BTUH BTUH	-							
DRYER	CEDINE	0		6912	BTUH								

Consulting En 1001 Avenue New York, N Y 212 695-1000	of the Amer 1 10018			U	i Gijyj	4L-N	EEP [N FHY	ng & He	eating Load	Calculates LEONARD 8	TREET ORK, NY
PROJECT: DIMENSIONS FLOOR AREA CEILING HT: INTERIOR/PE	93	FT SF SFT	x P	1142 0	FT		POWER: PEOPLE: RM TEMP: 8.A. TEMP:	2 W 0 W 1 PE 74 DE 54 DE	EOPLE EG. F	DATE: 19-J FLOOR #: 2 APT #:	lan-04 6	
						SOLAR				TRANSMISSION		
ENVELOPE D	EXP	NUM	HT.	WTH	NETSF	SC	CLF	SHGF	BTUH	CLTD		втин
100						117			11	110	0 10	139
WALL	N			39.5	127	0.57	0.82	35	3550	150	0 65	2116
GLASS	N E		700 100130	0.0	217	0.57				18.0	0 10	0
	E			0.0	ő	0 57	0.76	216	0	70	0.65	0
	s		500	00	ō	1			2	16.0	0.10	0
	s		70	00	0	0 57	0 82	149	0	16.0	0.10	507
WALL	w	1	8.7	32 5	281	1000000		***	۰	17.0	0.65	0
	w			0.0	0	0 57	0 82	216	٩	43.0	0.20	o
ROOF				00	0	4.00	0.85	247	اه	2	2.00	0
SKYLIGHT		9		00	0	100	0 63	2-1	١.	ō	0.00	0
LOOR			0.0	00	0					. 0	0.00	. 0
PARTITION			0.702	00	o						0.00	. 0
OTAL AREA A	ND PERIM	ETERS										2762
WALL AREA	GLASS	1					SU	B TOTAL=	3550		TOTAL=	6312
(SF)	AREA (SF)	1							EXT	ERNAL LOAD	IOIAL=	0312
408	217	1					1300			1		
		,					-			SENSIBLE LOAD		
ITERNAL CO	OLING LOA	D				LATENT	LOAD	FACTOR	втин	SENSIBLE LOAD	FACTOR	BTUF
				CLF				200 0	200		250 0	250
CCUPANTS		PEOPLE		1.00		1		2000			34	7798
IGHTING		WATTS		100		1				1	34	0
QUIPMENT	0	WATTS		100							10	
ENS HEAT ATENT HEAT		BTUH		100				10	0			
ATENT REAL		D.O.,				1						
ENTILATION	0	CFM	450	GR/LB				0.7	0		1.1	
OUTDOOR AIR)			14 0	TD	- 1			B TOTAL=	200	911	B TOTAL=	14359
ENT RATE:	0	CFMPER	SON		ı			SAFETY=	20	30	SAFETY=	1430
OOM AIR								NT LOAD=	220	SENSIB	LE LOAD=	15795
ELTA T:	20 0	DEG F					-	TT EUTO-				
ATING DESIG	N DATA						COOLING	SUMMARY D	0701111			
RM TEMP:		DEG. F							T	OTAL COOLING		1601
O.A. TEMP:	75.00	DEG. F	INF	L RATE:	01	CFWSF	90.739.665		51/2	0.37	DAD CFM =	73
DELTAT:		DEG F		N DEL T:	20	DEG. F	LTG&PWR	- C-147.X3	IISF		WSQ FT =	0
DECIA I.							SH RATIO:			INDEX FOR VEN		2207
ATING LOAD:	TRANSMI	SSION & I	NEILTRATIO	N			TONNAGE	1 1 33		MIN. CODE SUI		45
ANS (WALL+F			2612 E	HUT						MIN. CODE OUT		15
ANS (GLASS+			9027 E	HUT						AIR CHA	NGES/HR =	- 3
LTRATION (A):	1500 E	TUH								_
B TOTAL:			13139 E	TUH							AL CFM =	102
FETY:	10%	1000	1314 E	TUH			1	BASIS: 8	QUARE FOOT	FINA	AL OF IN A	102
TAL TRANS &	NIFL		14453 E	TUH								
										1		
	FORCED I	NFILTRAT					HEATING :	SUMMARY D	MIA	TOTAL WINTER	HEATING =	220
ATING LOAD:	CFM	FACTOR	BTUH								TER GPM =	-
ATING LOAD:	100	1 08	6912	- 1						***		
	_	1.08	0									
LET	0	4.00	0	- 1								
LET CHEN	0	1.08										
LET CHEN NERAL		1.08	0									
ILET CHEN NERAL NCK	0		0									
ATING LOAD: ILET CHEN NERAL NCK YER	0	1 08	0 6912 B									
ILET CHEN NERAL NCK YER	0 0 0	1 08 1 08	0	TUH								

Printed on 10/24/2006 at 8.45 AM

F:88 LEANARDA V68 Leonard HVAC Load Calculations Edison Parking

Lilker A Consulting En 1001 Avenue New York, N Y	gineers, P C of the Americ			ORI	GIN	AL-l	(EEP	co IN F	ooling & H	eating Load	88 LEONA	lations RD STREET YORK, NY
PROJECT: DIMENSIONS FLOOR AREA CEILING HT: INTERIOR/PE	9 33	SF FT	x	417.0 F			LIGHTING: POWER: PEOPLE: RM TEMP: 8 A TEMP:	2 0 1 74	W/SF W PEOPLE	DATE: 19- FLOOR #: 2 APT #:	Jan-04 7	
			•									
ENVELOPE D	ATA					SOLAR				TRANSMISSION		BTUH
	EXP	NUM	нт	WTH N	ETSF	SC	CLF	SHGF	BTUH	ато	0	Biun
WALL GLASS	N	;	87 70	11 5 10 0 0 0	30 70 0	0 57	0.82	35	1145	11 0 15 0 18 0	0 10 0 65 0 10	33 663 0
GLASS	E	0	00	00	ő	0 57	0.78	216	0	7.0	0.85	0
WALL	S	ō	87	19 0	0					18.0	0.10	0
GLASS WALL	s w	0	70 87	160	0	0 57	0 82	149	٥١	18.0	0.10	
GLASS	w		70	00	0	0 57	0 82	216	0	17.0	0 65	0
ROOF		0	0.0	00	0					43 0	0 20	0
SKYLIGHT		0	00	00	0	100	0.85	247		2 0	2 00 0 00	
FLOOR PARTITION		0	00	00	0				- 1	0	0 00	0
CEILING		ŏ	00	00	0					0	0 00	0
TOTAL AREA	AND PERIM	TERS							1145	2188	TOTAL=	718
WALL AREA (SF)	GLASS AREA (SF)						Sue	TOTAL=		ERNAL LOAD T		1861
INTERNAL CO	N WG 1 04					LATENT I	OAD			SENSIBLE LOAD		
MIERNAL CO	JOLING LUA		_	CUF	$\overline{}$			FACTOR	BTUH		FACTOR	BTUH
OCCUPANTS	1	PEOPLE		1 00	- 1	1		200 0	200		250.0	250 2847
LIGHTING		WATTS		1.00	- 1	1			1	l	34	2047
EQUIPMENT SENS HEAT	0	WATTS		1.00	- 1	1				l	1.0	ō
LATENT HEAT	r	BTUH		1.00				1.0	0		•	
								07				
VENTILATION (OUTDOOR ALE		CFM	140	GR/LB				٠.			11	0
VENT RATE:		CFWPERS				1		TOTAL=	200		TOTAL=	4958
ROOM AIR	570				- 1	1		SAFETY=	20		WETY=	496
DELTA T:	20 0	DEG F					LATEN	TLOAD=	220	SENSIBLE	E LOAD=	5454
HEATING DES	IGN DATA						COOLING S	UMMARY				
RM TEMP:	E 2070	DEG F							TC	TAL COOLING		5674
OA TEMP		DEG F		IL RATE: W DEL T:	-	DEG F	LTG&PWR:	20	W/SF		D CFM =	252
DELTA T:	64	DEG. F		W DEL 1:	201	JEG F	SH RATIO:	0 961		INDEX FOR VENTIL		8061
HEATING LOA	O: TRANSM	ISSION & INI	FILTRATIO	N			TONNAGE:			MIN. CODE SUPP	LY AIR =	167
TRANS (WALL			1100000000	втин			1			MIN. CODE OUTSI		56
TRANS (GLAS			2912	BTUH BTUH						AIR CHANG	conk =	5.8
MICH TOATION	(OLASS AR	EVI	3588									
				втин				BASIS:	SQUARE FOOT	FINAL	CFM =	375
SUB TOTAL:	10%			ВТОН								
SUB TOTAL: SAFETY:		-	3947						DATA			
INFLITRATION SUB TOTAL: SAFETY: TOTAL TRANS	& NIFL	INEI TOAT					HEATING S	UMMARY				
SUB TOTAL: SAFETY:	D: FORCED	INFILTRATIO					HEATING S	UMMARY		TOTAL WINTER HE		15352
SUB TOTAL: SAFETY: TOTAL TRANS HEATING LOA	D: FORCED		DN				HEATING S	UMMARY			ATING = R GPM =	
SUB TOTAL: SAFETY: TOTAL TRANS HEATING LOA TOILET KITCHEN	D: FORCED CFM 50 100	FACTOR 1.08 1.08	DN BTUH 3456 6912				HEATING S	UMMARY				
SUB TOTAL: SAFETY: TOTAL TRANS HEATING LOA TOILET KITCHEN GENERAL	S & INIFIL AD: FORCED CFN 50 100 0	1.08 1.08 1.08	DN BTUH 3456 6912				HEATING S	UMMARY				
SUB TOTAL: SAFETY: TOTAL TRANS HEATING LOA TOILET KITCHEN GENERAL STACK	S & INIFIL AD: FORCED CFM 50 100 0	1.06 1.06 1.06 1.08 1.06	DN BTUH 3456 6912 0				HEATING S	UMMARY				
SUB TOTAL: SAFETY: TOTAL TRANS HEATING LOA TOILET KITCHEN GENERAL STACK DRYER	S & INIFIL AD: FORCED CFN 50 100 0	1.08 1.08 1.08	DN BTUH 3456 6912 0 0	втон			HEATING S	UMMARY				
SUB TOTAL: SAFETY: TOTAL TRANS HEATING LOA TOILET KITCHEN GENERAL STACK	S & INIFIL AD: FORCED CFM 50 100 0	1.06 1.06 1.06 1.08 1.06	DN BTUH 3456 6912 0				HEATING S	UMMARY				

F.MS LEANARDI. VSS Leonard HVAC Load Calculations Edean Partin

Lilker A Consuling Eng 1001 Avenue o New York, N Y 212 695-1000	pheers, P C			DRIG	INAL	KE	EP IN	FIE	oling & Ho	eating Loa	NEW	ations o street york, ny
PROJECT: DIMENSIONS: PLOOR AREA: CELLING HT:	683 9.33	FT SF	x	683 0	п		POWER: PEOPLE: RM TEMP: SA TEMP:	0 1 74	W/SF W PEOPLE DEG F DEG F	PLOOR #: 2 APT #:	i-Jan-04 8	
INTERIORPER	METER		P				SA IEMP.		0.00			
ENVELOPE DA	TA.					SOLAR				TRANSMISSIO		втин
	EXP	NUM	нт	WTH	NETSF	SC	CLF	SHGF	BTUH	CLTD	- 0	BIUN
WALL	N		1 87	23 5	- 08					11.0	0 10	75
	N		1 70	19 5		0.57	0 82	35	2233	15.0	0.65	1331
***	E		0 00	00				216	۰	180	0.85	o
	E		0 00	00	50	0.57	0.76	216	"	18.0	0.10	0
	S		0 67	00		0.57	0.82	149		160	0.65	0
WALL	w		0 87	00	5.0	100	100000	(0.000)		18.0	0.10	0
	w		0 70	00	_	0.57	0.82	216	۰	170	0.20	ŏ
ROOF			0 00	00		100	0.85	247		2	2 00	0
SKYLIGHT FLOOR			0 00	0.0		1 100	0.60		- 1		0 00	0
PARTITION			0 00	0.0					- 1		0 00	0
CELING			0 00	0.0							0.00	
TOTAL AREA A	NO PERIM	ETERS					-	TOTAL-	223	81	B TOTAL=	1406
WALL AREA (SF)	GLASS AREA (SF) 137									ERNAL LOAD	TOTAL=	3639
INTERNAL COC	w ========					LATENT	OAD			SENSIBLE LOA		
MIERRAL CO.	CHG COA			CLF				FACTOR	BTUH		FACTOR 250 0	8TUH 250
OCCUPANTS	1	PEOPLE	•	1.00		1		200 0	200	1	34	4004
LIGHTING		WATTS		1.00	- 1	1			1	1	34	0
EQUIPMENT	•	WATTS		100	- 1	1			-	1	10	0
SENS HEAT		BTUH		1 00	- 1	1		10	0			
								0.7	- 01			
VENTILATION	- 0	CFM	45 0 14 0	GRULB		1		٠.	-1	1	1.1	0
(OUTDOOR AIR) VENT. RATE:		CFMPE		10	- 1	1	SUE	TOTAL-	200	SI.	JB TOTAL=	8662
ROOM AIR	•	C	10011		- 1	1		SAFETY=	20		SAFETY-	855 9407
DELTAT:	200	DEG F					LATEN	T LOAD=	220	SENSE	SLE LOAD=	9407
							COOLING	BUMMARY	DATA			
EATING DESK		DEG F								TAL COOLIN	G LOAD=	9627
RM TEMP:		DEG F		IL RATE:	0.10	CFM/8F	1				DAD CFM -	436
OA TEMP: DELTAT:	_	DEG F		W DEL T:		DEG.F	LTG&PWR:		W/SF		M/SQ FT =	13202
CELIA II							SH RATIO:	0 977		MIN. CODE SU		273
EATING LOAD	: TRANSMI	A HOISE					TONNAGE:	0 80		MIN. CODE OUT		91
RANS (WALL+				BTUH	ľ						NGESHR =	5.8
RANS (GLASS				BTUH BTUH								
UB TOTAL:	SUASS ARI	A).		BTUH						12 <u>-</u> 2-2		
AFETY:	10%			BTUH	1			BASIS:	SQUARE FOOT	FIN	AL CFM =	615
				BTUH								
DTAL TRANS &							HEATING S	HIMMARY	DATA			
	FORCED						MEATING 8		-Ain	TOTAL WINTER		1156
		FACTOR								WA	TER GPM =	13
EATING LOAD:	CFM	1.00										
EATING LOAD:	CFM 50	1.08										
EATING LOAD: OILET ITCHEN	CFM	1.08	0									
EATING LOAD: OILET ITCHEN ENERAL	CFM 50 0		0									
EATING LOAD: OILET ITCHEN ENERAL TACK	50 0 0	1.08	0 0									
OTAL TRANS I	50 0 0 0	1.08 1.08 1.08	0 0 0 0									
EATING LOAD: OILET ITCHEN ENERAL TACK RYER	50 0 0 0 0	1.08 1.08 1.08 1.08	0 0 0 0	BTUH								

F:66 LEANARDA 186 Leonard HVAC Load Calculations Edeon Parkin

Consulting E	of the Americ Y 10018			.0	RIGII	NAL-	KEEP	inf	ILE & H	eating Load	NEW	lations RD STREET YORK, NY
PROJECT: DIMENSION: FLOOR ARE CEILING HT: INTERIOR/PI	5: 10 A: 339 933		×	339 0	FT		POWER: PEOPLE: RM TEMP: S A TEMP:	0 1 74	W/SF W PEOPLE DEG. F DEG. F	DATE: 19-J FLOOR #: 2 APT #:	en-04 9	
										TRAMSMISSION		
ENVELOPE I	EXP EXP	NUM	нт	WTH	NETSF	SOLAR	CLF	SHGF	BTUH	CLTD	U	BTUF
		NOM I		win	METOF	*	· ·	GHO				
WALL	N	1	87	110						110	0 10	30
GLASS	N	1	70	90		0 57	0 82	35	1031	15.0	0 65	614
WALL	E	0	00	00			0.76	216		70	0.85	
GLASS WALL	E \$	0	87	00	0.1	11	0 76	210	۰	180	0.10	
GLASS	S	ő	70	00			0.82	149	0	16 0	0.65	
WALL	w	ŏ	87	00			10000		- 1	18 0	0 10	
GLASS	w	ō	70	0.0	17		0 82	216	0	17.0	0 65	9
ROOF		0	00	0.0				52.23	100	43.0	0 20	9
SKYLIGHT		0	00	00		11	0 85	247	٥	2 0	200	(
FLOOR		0	00	00					ŀ	1 %	000	
PARTITION CEILING		0	00	00					1	1 6	0 00	
TOTAL AREA	AND PERM		00	- 00	- 0	J						
WALL AREA (\$F)	GLASS AREA (SF)						SU	TOTAL=	1031 EXT	ERNAL LOAD TO	TOTAL= OTAL=	168
INTERNAL C	OOLING LOA	٥				LATENT	LOAD			SENSIBLE LOAD		
				CLF				FACTOR	втин		ACTOR	BTU
OCCUPANTS	1	PEOPLE		1 00		11		200 0	200	1	250 0	25
LIGHTING		WATTS		1 00		Ш		•	1		34	231
EQUIPMENT	0	WATTS		1.00		11			- 1		10	
						11			.1	1	10	
		BTUH		1.00		11		10			٠.	
	т	STUH STUH		1.00]					1000	
LATENT HEA		(550) 777.83	450					10	•		<u>:</u>	
SENS HEAT LATENT HEA VENTILATION (OUTDOOR A		втин	45 0 14 0	1 00 GRALB				6.7	0		1.1	
VENTILATION	(0 (R)	втин	140	1 00 GRALB				0.7 S TOTAL=	0 200		1.1 TOTAL=	424
VENTILATION (OUTDOOR AL VENT. RATE: ROOM AIR	(0 R)	CFM CFMPERSO	140	1 00 GRALB				0.7 TOTAL= SAFETY=	0 200 20	8	1.1 TOTAL= AFETY=	424
VENTILATION (OUTDOOR AL VENT. RATE: ROOM AIR	(0 R)	BTUH CFM	140	1 00 GRALB				0.7 S TOTAL=	0 200		1.1 TOTAL= AFETY=	424
VENTILATION (OUTDOOR AL VENT. RATE: ROOM AIR DELTA T:	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CFM CFMPERSO	140	1 00 GRALB				0.7 S TOTAL= SAFETY= IT LOAD=	200 20 220 220	SENSIBLE	1.1 TOTAL= AFETY= LOAD=	424 42 467
VENTILATION (OUTDOOR AI VENT. RATE: ROOM AIR DELTA T: HEATING DE RM TEMP	20.0 20.0 SSIGN DATA	BTUH CFM CFMPERSO DEG F	140 N	GRALB TD			LATEN	0.7 S TOTAL= SAFETY= IT LOAD=	200 20 220 220	SENSIBLE	1.1 TOTAL= AFETY= LOAD=	424 42 467 489
VENTILATION (OUTDOOR AI VENT. RATE: ROOM AIR DELTA T: HEATING DE RM TEMP O A TEMP	20.0 20.0 SIGN DATA 70 6	BTUH CFM CFMPERSO DEG F DEG F DEG F	14 0 N	GRALB TD		CFWSF DEG E	COOLING S	6.7 S TOTAL= SAFETY= IT LOAD=	200 20 220 220	SENSIBLE	1.1 TOTAL= AFETY= LOAD=	4244 422 4670 489 210
VENTILATION (OUTDOOR AI VENT. RATE: ROOM AIR DELTA T: HEATING DE RM TEMP	20.0 20.0 SIGN DATA 70 6	BTUH CFM CFMPERSO DEG F	14 0 N	GRALB TD		CFWSF DEG F	LATEN	6.7 S TOTAL= SAFETY= IT LOAD=	200 20 220 220	SENSIBLE	1.1 TOTAL= AFETY= LOAD= COAD= COFM =	424 42 467 489 21 05 655
VENTILATION (OUTDOOR AVENT, RATE: ROOM AIR DELTA T: HEATING DE RM TEMP OA TEMP DELTA T	20.0 20.0 SiGN DATA : 70 : 64	CFM CFMPERSO DEG F DEG F DEG F DEG F	14 0 N	GRAUB TD			COOLING S	0.7 S TOTAL= SAFETY= IT LOAD= SUMMARY	200 20 220 220	SENSIBLE OTAL COOLING I LOAI INDEX FOR VENTIL MIN. CODE SUPPL	1.1 TOTAL= AFETY= LOAD= COAD= COAD= COAD= ATION= LY AIR =	424 42 467 489 211 01 655 13
VENTILATION (OUTDOOR AI VENT. RATE: ROOM AIR DELTA T: HEATING DE RM TEMP OA TEMP DELTA T HEATING LO	20.0 20.0 SIGN DATA 70 6 64 AD: TRANSM	BTUH CFM CFMPERSO DEG F DEG F DEG F	IA O N	GRAUB TD			COOLING S	O.7 SAFETY= IT LOAD= SUMMARY	200 20 220 220	SENSIBLE OTAL COOLING I LOAI CFMI INDEX FOR VEHIL MIN. CODE SUPPL MIN. CODE OUTSIG	1.1 TOTAL= AFETY= LOAD= COAD= O CFM = ATION= LY AIR =	424 42 467 489 211 01 655 13
VENTILATION (OUTDOOR AN VENT. RATE: ROOM AIR DELTA T: HEATING DE RM TEMP OA TEMP DELTA T HEATING LO TRANS (WAL	20.0 SIGN DATA 70 6 6 64 AD: TRANSM	CFM CFMPERSO DEG F DEG F DEG F DEG F DEG F DEG F	IN IN INTERPRETATION	100 GRAUB TD FIL RATE: NW DEL T:			COOLING S	O.7 SAFETY= IT LOAD= SUMMARY	200 20 220 220	SENSIBLE OTAL COOLING I LOAI INDEX FOR VENTIL MIN. CODE SUPPL	1.1 TOTAL= AFETY= LOAD= COAD= O CFM = ATION= LY AIR =	424 42 467 489 211 01 655 13
VENTILATION (OUTDOOR AI VENT. RATE: ROOM AIR DELTA T: HEATING DE RM TEMP OA TEMP DELTA T HEATING LO TRANS (WALL TRANS (GLAS NFILTRATIO	20.0 SIGN DATA 70 6 64 AD: TRANSM L+ROOF): SS+SKYLITE)	CFM CFMPERSON DEG F	14 0 N INF F ILTRATIK 209 2621 435	TO GRALB TO			COOLING S	O.7 SAFETY= IT LOAD= SUMMARY	200 20 220 220	SENSIBLE OTAL COOLING I LOAI CFMI INDEX FOR VEHIL MIN. CODE SUPPL MIN. CODE OUTSIG	1.1 TOTAL= AFETY= LOAD= COAD= O CFM = ATION= LY AIR =	424 42 467 489 211 01 655 13
VENTILATION (OUTDOOR AI VENT. RATE: ROOM AIR DELTA T: HEATING DE RM TEMP OA TEMP DELTA T HEATING LO TRANS (WALL TRANS (GLA: NFILTRATIO SUB TOTAL:	SIGN DATA TO 6 AD: TRANSM L+ROOF): SS+SKYLITE) N (GLASS AR	CFM CFMPERSO DEG F DEG F DEG F DEG F SISSION & INFI	14 0 N INF H ILTRATIK 209 2621 435 3266	TO GRADE TO			COOLING S	O.7 STOTAL= SAFETY= IT LOAD= SUMMARY 20 1 0 995 0 41	200 200 220 220 DATA	SENSIBLE OTAL COOLING L LOAL INDEX FOR VENTIL MIN. CODE SUPPIL MIN. CODE SUPPIL MIN. CODE GUTSIC AIR CHANGE	1.1 TOTAL= AFETY= LOAD= LOAD= O CFM = SQ FT = ATION= LY AIR = ESAIR =	4244 422 4676 489 211 03 6553 44 51
VENTILATION (OUTDOOR AI VENT. RATE: ROOM AIR DELTA T: HEATING DE RM TEMP OA TEMP DELTA T HEATING LO TRANS (WALL TRANS (WALL TRANS (GLAX INFILTRATIO SUB TOTAL: SAFETY:	SIGN DATA TO 6 64 AD: TRANSM L*ROOF): SS+SKYLITE) N (GLASS AR	CFM CFMPERSO DEG F DEG F DEG F DEG F SISSION & INFI	14 0 N INI ILTRATIC 209 2621 435 3266 327	TO GRALB TO			COOLING S	O.7 STOTAL= SAFETY= IT LOAD= SUMMARY 20 1 0 995 0 41	200 20 220 220	SENSIBLE OTAL COOLING L LOAL INDEX FOR VENTIL MIN. CODE SUPPIL MIN. CODE SUPPIL MIN. CODE GUTSIC AIR CHANGE	1.1 TOTAL= AFETY= LOAD= COAD= O CFM = ATION= LY AIR =	4244 422 4677 489 211 01 6555 130 44
VENTILATION (OUTDOOR AI VENT. RATE: ROOM AIR DELTA T: HEATING DE RM TEMP OA TEMP DELTA T HEATING LO TRANS (WALL TRANS (WALL TRANS (GLAX INFILTRATIO SUB TOTAL: SAFETY:	SIGN DATA TO 6 64 AD: TRANSM L*ROOF): SS+SKYLITE) N (GLASS AR	CFM CFMPERSO DEG F DEG F DEG F DEG F SISSION & INFI	14 0 N INI ILTRATIC 209 2621 435 3266 327	TO GRADE TO			COOLING S	O.7 STOTAL= SAFETY= IT LOAD= SUMMARY 20 1 0 995 0 41	200 200 220 220 DATA	SENSIBLE OTAL COOLING L LOAL INDEX FOR VENTIL MIN. CODE SUPPIL MIN. CODE SUPPIL MIN. CODE GUTSIC AIR CHANGE	1.1 TOTAL= AFETY= LOAD= LOAD= O CFM = SQ FT = ATION= LY AIR = ESAIR =	4244 422 4677 489 211 01 6555 130 44
VENTILATION (OUTDOOR AI VENT. RATE: ROOM AIR DELTA T: HEATING DE RM TEMP OA TEMP DELTA T HEATING LO TRANS (WALL TRANS (GLA NFILTRATIO SUB TOTAL: SAFETY: TOTAL TRAN	SIGN DATA 70 6 6 64 AD: TRANSM L-ROOF): SS+SKYLITE) N (GLASS AR	CFM CFMPERSO DEG F DEG F DEG F DEG F EG F DEG F	14 0 N INI 1LTRATIC 209 2621 435 3267 3267 3592	TO GRALB TO			COOLING S	O7 STOTAL= SAFETY= IT LOAD= SUMMARY 20 1 0 955 0 41 BASIS: 3	DATA TO SQUARE FOOT	SENSIBLE OTAL COOLING I LOAI INDEX FOR VENTIL MIN. CODE SUPPI MIN. CODE OUTSIC AIR CHANGI FINAL	1.1 TOTAL= AFETY= LOAD= COAD= D CFM = SQ FT = ATION= LY AIR = ESAIR = CFM =	424 42 467 489 211 01 655 13 4 51
VENTILATION (OUTDOOR AI VENT. RATE: ROOM AIR DELTA T: HEATING DE RM TEMP OA TEMP DELTA T HEATING LO TRANS (WALL TRANS (GLA: NFILTRATIO SUB TOTAL: SAFETY: TOTAL TRAN HEATING LO	20.0 SIGN DATA 70 6 64 AD: TRANSM L-ROOF): SS+SKYLITE) N (GLASS AR 10% S & INIFIL AD: FORCED	CFM CFMPERSO DEG F DEG F DEG F DEG F EA):	14 0 N INF F ILTRATIK 209 2621 435 3266 327 3592 N	TO GRALB TO			COOLING S LTG&PWR: SH RATIO: TONNAGE:	O7 STOTAL= SAFETY= IT LOAD= SUMMARY 20 1 0 955 0 41 BASIS: 3	DATA TO SQUARE FOOT	SENSIBLE OTAL COOLING I LOAI INDEX FOR VENTIL MIN. CODE SUPPI MIN. CODE OUTSIC AIR CHANGI FINAL	1.1 TOTAL= AFETY= LOAD= LOAD= D CFM = SQ FT = ATION= LY AIR = ESAIR =	424 42 467 489 211 01 655 13 4 51
VENTILATION (OUTDOOR AI VENT, RATE: ROOM AIR DELTA T: HEATING DE RM TEMP OA TEMP DELTA T HEATING LO TRANS (WAL TRANS (GLA) MANIETTA TO TO TAL: SAFETY: TOTAL TRAN HEATING LO TOILET	SIGN DATA TO AD: TRANSM L+ROOF): SS+SKYLITE) N (GLASS AR 10% S & INIFIL AD: FORCED CFM	CFM CFMPERSO DEG F	INI P ILTRATIC 209 2621 435 3266 327 3592 N BTUH 3456 6912	TO GRALB TO			COOLING S LTG&PWR: SH RATIO: TONNAGE:	O7 STOTAL= SAFETY= IT LOAD= SUMMARY 20 1 0 955 0 41 BASIS: 3	DATA TO SQUARE FOOT	SENSIBLE OTAL COOLING I LOAI INDEX FOR VENTIL MIN. CODE SUPPI MIN. CODE OUTSIC AIR CHANGI FINAL	1.1 TOTAL= AFETY= LOAD= COAD= D CFM = SQ FT = ATION= LY AIR = ESAIR = CFM =	424 42 467 489 21 0.5 655 13 4 5.
VENTILATION (OUTDOOR AI VENT. RATE: ROOM AIR DELTA T: HEATING DE RM TEMP OA TEMP DELTA T HEATING LO TITRANS (WALL TRANS (GLAS NIFILTRATION SUB TOTAL: SAFETY: TOTAL TRAN HEATING LO TOILET KITCHEN GENERAL	SIGN DATA 20.0 SIGN DATA 70 6 AD: TRANSM L-ROOF): SS+SKYLITE) N (GLASS AR 10% S & INIFIL AD: FORCED CFM 50 100 0	DEG F	INF P 14 0 N 14	TO GRALB TO			COOLING S LTG&PWR: SH RATIO: TONNAGE:	O7 STOTAL= SAFETY= IT LOAD= SUMMARY 20 1 0 955 0 41 BASIS: 3	DATA TO SQUARE FOOT	SENSIBLE OTAL COOLING I LOAI INDEX FOR VENTIL MIN. CODE SUPPI MIN. CODE OUTSIC AIR CHANGI FINAL	1.1 TOTAL= AFETY= LOAD= COAD= D CFM = SQ FT = ATION= LY AIR = ESAIR = CFM =	424 42 467 489 21 0.5 655 13 4 5.
WENTILATION (OUTDOOR AI WENT, RATE: ROOM AIR DELTA T: HEATING DE RM TEMP OA TEMP DELTA T HEATING LO TRANS (WALL TRANS (WALL TRANS (WALL TRANS (LO TOTAL TRAN HEATING LO	SIGN DATA TO 6 AD: TRANSM L-ROOF): SS+SKYLITE) N (GLASS AR 10% S. & WIFIL AD: FORCED CFM 50 100 0	CFM CFMPERSO DEG F	INI P ILTRATIC 209 2621 435 3266 327 3592 N BTUH 3456 6912	TO GRALB TO			COOLING S LTG&PWR: SH RATIO: TONNAGE:	O7 STOTAL= SAFETY= IT LOAD= SUMMARY 20 1 0 955 0 41 BASIS: 3	DATA TO SQUARE FOOT	SENSIBLE OTAL COOLING I LOAI INDEX FOR VENTIL MIN. CODE SUPPI MIN. CODE OUTSIC AIR CHANGI FINAL	1.1 TOTAL= AFETY= LOAD= COAD= D CFM = SQ FT = ATION= LY AIR = ESAIR = CFM =	424 42 467 489 21 0.5 655 13 4 5.
VENTILATION (OUTDOOR AI VENT. RATE: ROOM AIR DELTA T: HEATING DE RM TEMP OA TEMP DELTA T HEATING LO TRANS (WALL THANS (WALL TOTAL TRAN HEATING LO TOTAL TRAN HEATING LO TOTAL TRAN HEATING LO TOTAL TRAN HEATING LO	SIGN DATA 20.0 SIGN DATA 70 6 AD: TRANSM L-ROOF): SS+SKYLITE) N (GLASS AR 10% S & INIFIL AD: FORCED CFM 50 100 0	DEG F	INF ILTRATIK 209 2661 435 3266 327 3592 N BTUH 3456 6912 0	TO GRADE TO			COOLING S LTG&PWR: SH RATIO: TONNAGE:	O7 STOTAL= SAFETY= IT LOAD= SUMMARY 20 1 0 955 0 41 BASIS: 3	DATA TO SQUARE FOOT	SENSIBLE OTAL COOLING I LOAI INDEX FOR VENTIL MIN. CODE SUPPI MIN. CODE OUTSIC AIR CHANGI FINAL	1.1 TOTAL= AFETY= LOAD= COAD= D CFM = SQ FT = ATION= LY AIR = ESAIR = CFM =	424 42: 4670 489 210
WENTILATION (OUTDOOR AI WENT, RATE: ROOM AIR DELTA T: HEATING DE RM TEMP OA TEMP DELTA T HEATING LO TRANS (WALL TRANS (WALL TRANS (WALL TRANS (LO TOTAL TRAN HEATING LO	SIGN DATA TO 6 AD: TRANSM L-ROOF): SS+SKYLITE) N (GLASS AR 10% S. & WIFIL AD: FORCED CFM 50 100 0	DEG F	INI P ILTRATIC 209 2621 435 3266 327 3592 N BTUH 3456 6912 0 0	TO GRADE TO			COOLING S LTG&PWR: SH RATIO: TONNAGE:	O7 STOTAL= SAFETY= IT LOAD= SUMMARY 20 1 0 955 0 41 BASIS: 3	DATA TO SQUARE FOOT	SENSIBLE OTAL COOLING I LOAI INDEX FOR VENTIL MIN. CODE SUPPI MIN. CODE OUTSIC AIR CHANGI FINAL	1.1 TOTAL= AFETY= LOAD= COAD= D CFM = SQ FT = ATION= LY AIR = ESAIR = CFM =	424 42 467 489 21 0.5 655 13 4 5.

Consulting Er 1001 Avenue New York, N Y	of the Americas 10018		UI	1101	INAL-	-KEE	PINF	ILEº	oling & m	eating Load	MEN	YORK, N
212 695-1000							TTET SELO.	- 5	WASF	DATE: 19	Jen-04	
		_	_				LIGHTING		1000	FLOOR #: 2		*
PROJECT:	1.0 F		×	369 0	FT	П	POWER: PEOPLE:		PEOPLE	APT #:	10	
DIMENSIONS						П	RM TEMP:		DEG F	1		
FLOOR AREA CEILING HT:	9 33 FT					11	SA TEMP		DEG. F			
INTERIORIPE		P					on reas					
BATE TOO TO			,							TRANSMISSION		
						SOLAR			BTUH	CLTD	0	BTU
ENVELOPE D		и н	T. 1	ИТН	NETSF	SC	CLF	SHGF	•1un	1	10000	53
	EXP NO		•••		2007-00000					11.0	0 10	546
	N	1	87	12.0			0.82	35	916	15.0	0 65	~
	N	1	70	8.0		0 57	0.02	-	9550	18.0	0 1D 0 65	Č
	Ē	0	00	0.0		0.57	0.76	216	•	7.0	0 10	. 0
	Ē	•	00	0.0	0	1 00	•		ا .	18.0	0 65	0
	s	0	87	0.0	ő	0 57	0.82	149	•	18.0	0 10	
-	S	0	87	0.0	0		(5.00.0024			17.0	0 65	0
***	w		7.0	00	0	0 57	0 82	216	٦,	430	0 20	9
GLASS	~	ŏ	0.0	00	٥	1000		247		2	2 00	5
ROOF		ő	0.0	00	0	100	0.85	247	1		0.00	0
SKYLIGHT FLOOR		0	0.0	00	0	1			- 1	•	0.00	č
PARTITION		•	00	00	9	1			- 1	0	0.00	
CEL ING		0	00	00	0					-	TOTAL=	500
OTAL AREA A	ND PERIMETER	5				_	SUE	TOTAL=	916	ERNAL LOAD T	OTAL=	1515
	GLASS AREA (SF)								EXT	ERMAL LOSES .	<u> </u>	
48	56									SENSIBLE LOAD		
TERNAL COO	I ING LOAD			7.39		LATENT	LOAD	FACTOR	BTUH		FACTOR	8TU
TERRIAL COO				Z.F			8	200.0	200		250 0	2520
CCUPANTS	1 PEO			1 00	- 1	1			-		34	
GHTING	738 WAT			100	- 1			•	-1		10	Č
OUTPMENT	0 WAT			100	- 1			•	اه		٠.	
ENS HEAT	BTU BTU			1.00				10				
TENT HEAT	810							- 07	- 01		•	
NILATION	0 CFM		45.0 GR	ALB				٠,		0700000	1.1	
UTDOOR AIR)	•		140 TD		- 1	l	SUR	TOTAL=	200		TOTAL=	426
NT RATE:	0 CFM	PERSON			- 1			AFETY=	20	10000 U 0000 U 0	AFETY=	42
DOM AIR							LATENT	LOAD=	220	SENSIBLE	LOAD=	471
ELTA T:	20 0 DEG	F										
ATING DESIG	DATA						COOLING S	JAMMART D	10	TAL COOLING	LOAD=	493
RM TEMP:	70 DEG.	F									CFM =	210
DA TEMP:	6 DEG.		NEL I			FMSF	LTG&PWR:	20 W	IRF		SQ FT =	01
DELTA T:	64 DEG.		HW D	EL T:	20 D	EG. F	SH RATIO:	0.955	~ .	NOEX FOR VENTIL	-HOITA	713
							TONNAGE:	0.41		MIN. CODE SUPP	YAR -	140
ATING LOAD:	RANSMISSION	& INFILTR	MOITAS	_			I GRADE			MN. CODE OUTSE	E AIR -	4
WS (WALL+RE	XXF):		310 BTU				I			AIR CHANG	ES/HR =	5.
WS (GLASS+S	KYLITE):		2330 BTU									
LTRATION (GL			387 BTU									
TOTAL			026 BTU					ASIS: 50	QUARE FOOT	FINAL	CFM =	332
ETY:	10%		303 BTU									
AL TRANS &	NFL.	3	329 BTU	Н								
	ORCED INFILT	RATION OR BTU		_			HEATING SU	MMARY D	ATA T	OTAL WINTER HE	ATING =	1473
	CFM FACTO		456							WATE	(OFM -	
ET	5770	•	912					100				
HEN	9775		0									
	10210	D8	ŏ									
70000	0 1	-	-	1								
ERAL X	1000	26	0									
X ER	0 1		_	\dashv								
75.55	1000	103	0 968 BTUF 937 BTUF									

Printed on 10/24/2006 at 8:46 AM

FME LEANARDA WE Leverard HVAC Load Calculations Edition Parkin

Pasterior I

F186 LEANARDA 198 Learnerd HAVAC Load Calculations Edition Politic

WALL N 1 87 51 8 0	Lilker As		s				ORIG	NAL	-KFF	Coo	ling & He	ating Load	Calculati	ons
DAMENSIONS: 10 FF X	New York, NY		•							1111	FILE		NEW YOU	RK, HY
CELING HT: 93 9T	DIMENSIONS:				×	6120	FT		POWER:	0 V	v	FLOOR #: 3-8	555	\neg
BOLAR STATE STAT			FT	P							200000000000000000000000000000000000000			
WALL N 1 87 51 8 8 9 A 9 A 9 A 9 A 9 A 9 A 9 A 9 A 9 A			MILL		20150									
MASS N	0.000		HOM			WIH.	NETSF	sc	CLF	SHGF	BTUH	аль	U	BTUH
WALL E 1 87 210 42	50 Am 2 C 80 C 100	-							5 5535	7722	200		77.10	9
GLASS E 1 70 200 140 150				*				0 57	0 82	35	584			348 75
MALL S 0 37 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				1			2007	0.57	0.76	216	13100	50.000		637
WALL W								100000		100.000		3,300,500	0 10	0
CALASS W 0 72 00 0 0 0 0 0 0 0 0		-		-	_	11/15/15		0 57	0 82	149	0	100000	75,555	0
ROOF				1500				0.57	0.00	***			100000000000000000000000000000000000000	2
SEVELORY 0 00 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0		707		-				0.57	UBZ	210	0	1000,000		0
PARTITION				-			0	100	0.85	247	اه			0
CERLING				-		-						100		0
SUB TOTAL AREA AND PERMETERS SUB TOTAL* SUB TOTAL*				7.7				П			1	10000	0.500.000	0
SF AREA (SF) SO T/8	TOTAL AREA A	ND PERM	ETERS	_			•					_ •	000	٥
NTERNAL COOLING LOAD	(SF)	AREA (SF)							50	B TOTAL=				1070 14754
CCCUPANTS			o T					LATENT	LOAD			enemis I OA		
LIGHTING 1224 WATTS 100 230 230 3.4 COURMENT 0 WATTS 100 1.0 1.0 1.0 LATENT HEAT BTUH 100 1.0 1.0 1.0 VENTIRATION 0 CFM 45 0 GRUB 14 0 TD 1.0 1.0 1.0 VENTIRATE: 0 CFMPERSON 14 0 TD 1.1 1.0 1.1 VENTIRATE: 0 CFMPERSON 14 0 TD 1.1 1.1 VENTIRATE: 0 CFMPERSON 1.1 1.1 VENTIRATE: 0 CFMPERSON 1.1 1.1 VEN			141							FACTOR	втин	C. C	77	втин
EQUIPMENT 0 WATTS 100 3.4								11		200 0	200	1	250.0	250
SENS HEAT								11		•				4179
VENTILATION 0 CFM 45 0 GR/LB 14 0 TD 1.1 3 UB TOTAL 200 3 AFETY 20 3 AFETY 20 3 AFETY 20 3 AFETY 20 3 AFETY 3 AF								П			1			0
COUTDOOR AIR 14 0 TD	LATENT HEAT		BTUH			1 00	1			1.0		1	٠	٠
COUTDOOR AIR 14 0 TD	IVENTO ATPON		CEU		18.0									
VENT RATE: 0 CFMPERSON SUB TOTAL 200 SAFETY 200 SAFETY			CFM							07	0			
SAFETY: 20 SAF		•	CFMP	ERSON				11	SI	B TOTAL .	200	11		0
MEATING DESIGN DATA								11				II *		19182
RM TEMP: 70 DEG F O.A. TEMP: 6 DEG F NFIL. RATE: 0.1 CFMSF DELTAT: 64 DEG F NFIL. RATE: 20 DEG F	DELTA T.	20 0	DEG F					J	LATI	NT LOAD=		SENSI		21101
O A TEMP: 6 DEG F NFIL RATE: 0.1 CFMSF DELTAT: 64 DEG F NW DELT: 20 DEG F HEATING LOAD: TRANSMISSION & INFILTRATION TRANS (WALL+ROOF): 322 BTUH TRANS (GLASS+SKYLITE): 7309 BTUH INFILTRATION (GLASS AREA): 1214 BTUH SUB TOTAL: 8846 BTUH SAFETY: 10% \$85 BTUH TOTAL TRANS. & RIFFL 9730 BTUH HEATING LOAD: FORCED INFILTRATION HEATING LOAD: FORCED INFILTRATION TOTAL TRANS. & RIFFL 9730 BTUH BASIS: LOAD FINAL CFM = HEATING SUMMARY DATA TOTAL WINTER HEATING = WATER GPM = TOTAL COOLING LOAD: SH RATIO: 0.990 INDEX FOR VEHILLATION MIN. CODE SUPPLY AR = MIN. CODE SUPPLY AR = MIN. CODE SUPPLY AR = MIN. CODE OUTSIDE AR = AIR CHANGESINR = HEATING SUMMARY DATA TOTAL WINTER HEATING = WATER GPM =			DEG E						COOLING	SUMMAR				
DELTAT: 64 DEG F					ME	IL PATE		CEMSE	11		1			2132
HEATING LOAD: TRANSMISSION & INFILTRATION TRANS (WALL+ROOF): 322 BTUH TRANS (GLASS-SKYLITE): 7309 BTUH INFILTRATION (GLASS AREA). 1214 BTUH SUB TOTAL: 8846 BTUH SAFETY: 10% 685 BTUH TOTAL TRANS. & NIFL 9730 BTUH HEATING LOAD: FORCED INFILTRATION HEATING LOAD: FORCED INFILTRATION HEATING LOAD: FORCED INFILTRATION TOILET 50 1 06 3456 SITCHEN 0 1 08 0 GENERAL 0 1 08 0 STACK 0 1 08 0 DRYER 0 1 08 0	DELTAT:								LTGEPW	R: 20	WISE			97
TONNAGE: 1.78 MIN. CODE SUPPLY AR =									SH RATK					
TRANS (GLASS-SKYLITE): 7309 BTUH SUB TOTAL: 7309 BTUH BASIS: LOAD FINAL CFM =	HEATING LOA	D: TRANSI	AISSION	& INFIL					TONINAG	E: 1.78				1183
NFE TRATION (GLASS AREA). 1214 BTUH							1							- 7
SUB TOTAL: 8846 BTUH SAFETY: 10% \$85 BTUH TOTAL TRANS. & NIFE. 9730 BTUH HEATING LOAD: FORCED INFILTRATION HEATING LOAD: FORCED INFILTRATION TOILET 50 1 08 3456 KITCHEN 0 1 08 0 GENERAL 0 1 08 0 STACK 0 1 08 0 DRYER 0 1 08 0							1							10
SAFETY: 10%		,	-4	_			-							
TOTAL TRANS. & INIFL. 9730 BTUH HEATING LOAD: FORCED INFILTRATION CFM FACTOR BTUH TOILET 50 1 08 3456 KITCHEN 0 1 08 0 GENERAL 0 1 08 0 STACK 0 1 08 0 DRYER 0 1 08 0	SAFETY:	109		_	_		-		1	BACIE.	LOAD			
HEATING LOAD: FORCED INFILTRATION CFM FACTOR BTUH TOILET 50 108 3456 KITCHEN 0 108 0 GENERAL 0 108 0 STACK 0 108 0 DRYER 0 108 0	TOTAL TRANS		_	_			4			unais;	COAD	FIN	IAL CFM =	97
TOILET 50 108 3456 KITCHEN 0 108 0 GENERAL 0 108 0 STACK 0 108 0 DRYER 0 108 0	HEATING LOA				1		_		HEATIN	G SUMMAR	RY DATA			_
KITCHEN 0 108 0 GENERAL 0 108 0 STACK 0 108 0 DRYER 0 108 0	TORET	0.75		70000								TOTAL WINTER	HEATING .	135
GENERAL 0 108 0 STACK 0 108 0 DRYER 0 108 0			33 6											
STACK 0 108 0 DRYER 0 108 0			20 2											
DRYER 0 108 0	STACK				20.00									
					1.5		1							
3436 BIUN	TOTAL				_		-							
SAFETY: 10% 346 BTUH		10			346	BTUH	-							
TOTAL FORCED INFETRATION 3802 BTUH	TOTAL FORCE	ED INFILTR	MOITA		3802	BTUH								

Printed on 10/24/2006 at 8.47 AM

F:88 LEANARDA V68 Leonard HVAC Load Calculations Edison Partin

			RIGIN	AL-¦	(EEP	'IN F	ILE	Cool	ing & He	eating Load	8 LEONARD	
Charles Table 190								0.144		DATE: 19-J	20.04	
PROJECT	5	-					LIGHTING: POWER:	2 W/	SF	FLOOR #: 3-8	an-04	- 8
DIMENSION FLOOR ARE) FT) SF	×	839 0	FT		PEOPLE:		OPLE	APT #:	4	
CEILING HT		3 FT			- 3		RM TEMP:	74 DE		1.500.0000	- 27	- 1
INTERIOR/PI			P			Total Principle	SA. TEMP:	54 DE	G.F	The bear and		
		of Table										
ENVELOPE I	DATA					SOLAR				TRAMISMISSION		
	EXP	NUM	нт	WTH	NET SF	SC	CLF	SHGF	втин	CLTD	U	втин
WALL	N	0	87	00	0	1				11.0	0 10	0
GLASS	N	Ö		00	ő	0.57	0.82	35	0	15.0	0 65	0
WALL	E	,	87	29 4	04	007	402	15		18.0	0 10	168
GLASS	Ē	,	70	23 0	161	0.57	0.78	216	15065	7.0	0 65	733
WALL -	s	1	87	39.5	221	1.0	272		177111	18.0	0 10	396
GLASS	S	1	70	173	121	0 57	0.82	149	8409	16.0	0 65	1256
WALL	w	0		0.0	٥	1		OA!		18 0	0 10	0
GLASS	w	0		0.0	0	0 57	0 82	216	٥	170	0.65	0
ROOF		0	00	0.0	0	1	1000000			430	0.20	0
KYLIGHT		0		00	0	100	0 85	247	٥	2	2.00	0
LOOR		0		0.0	0					0	0.00	0
PARTITION		0		00	0					0	0.00	ő
OTAL AREA	AND PERM	FTERS	0.0	0.0	0						0.00	
		i					SIII	= TOTAL=	23474	SUB	TOTAL=	2555
WALL AREA (SF)	GLASS AREA (SF)	1					0.01			ERNAL LOAD T		26030
315	282						-					
								210.0				
ITERNAL CO	OCLING LOA)		CLF		LATENT	LOAD	FACTOR	BTUHI	SENSIBLE LOAD	FACTOR	BTUF
CCUPANTS		PEOPLE		100				200 0	200	1	250 0	250
GHTING		WATTS		100		1		2000	200	1	34	5729
DUIPMENT		WATTS		100		1					3.4	0
ENS HEAT		BTUH		1 00							1.0	0
ATENT HEAT		BTUH		1 00	- 1	1		10	0			
		-		Sauce Contract								
ENTILATION		CFM	45 D G	-				0.7	0			
UTDOOR AIR	-		140 T	D							11	
NT RATE:	0	CFMPERS	SON					TOTAL=	200		TOTAL=	32008
OOM AIR					- 1	1		SAFETY=	20	C management	SAFETY=	3201
	. 200	DEG. F					LATEN	IT LOAD=	220	SENSIBL	E LOAD=	35209
							COOL ING					
ELTA T:							COOLING :	SUMMARY D	AIA	The state of the s		
ELTA T: ATING DESI RM TEMP:	GN DATA	DEG. F			100000		COOLING	SUMMARY D		TAL COOLING	LOAD=	3542
ATING DESI RM TEMP: DA TEMP:	GN DATA 70 0	DEG. F		. RATE:		FWSF	-	3(9)	T		LOAD= AD CFM =	
ELTA T: ATING DESI RM TEMP:	GN DATA 70 0			RATE:		CFM/SF DEG. F	LTG&PWR	20 W/	T	LO		163
ELTA T: EATING DESI RM TEMP: DA TEMP: DELTA T:	GN DATA 70 0 6 0 64 0	DEG. F	HW	DEL T:			LTG&PWR:	2.0 W/	T	LO. CFI INDEX FOR VENT	AD CFM = WSQ FT = TLATION=	163
ELTA T: EATING DESI RM TEMP: DA TEMP: DELTA T: ATING LOAD	GN DATA 70 C 6 E 64 C	DEG. F	HW	DEL T:			LTG&PWR	2.0 W/	T	LO	AD CFM = WSQ FT = TLATION=	1630 11 1621
ATING DESI RM TEMP: DA TEMP: DELTA T: ATING LOAD ANS (WALL+	GN DATA 70 0 6 E 64 0 70 TRANSMIS	DEG. F	HW NFILTRATION 2016 B	DEL T:			LTG&PWR:	2.0 W/	T	LO. CFI INDEX FOR VENT	AD CFM = WSQ FT = TLATION= PLY AIR =	163 11 1621 33
ELTA T: EATING DESI RM TEMP: DA TEMP: DELTA T: ATING LOAD ANS (WALL+ ANS (GLASS	GN DATA 70 0 6 1 64 0 7: TRANSMIS ROOF; +SKYLITE;	DEG. F DEG. F SSION & IN	2016 B	TUH TUH			LTG&PWR:	2.0 W/	T	LO CFI INDEX FOR VENT MIN. CODE SUP	AD CFM = WSQ FT = TLATION= PLY AIR = SIDE AIR =	163 11 1621 33
ELTA T: EATING DESI RM TEMP: DA TEMP: DELTA T: ATING LOAD ANS (WALL+ ANS (GLASS LTRATION (GN DATA 70 0 6 1 64 0 7: TRANSMIS ROOF; +SKYLITE;	DEG. F DEG. F SSION & IN	HW 2016 B 11721 B 1947 B	DEL T:			LTG&PWR:	2.0 W/	T	LO CFI INDEX FOR VENT MIN. CODE SUP MIN. CODE OUTS	AD CFM = WSQ FT = TLATION= PLY AIR = SIDE AIR =	163 11 1621 33
ELTA T: EATING DESI RM TEMP: DA TEMP: DELTA T: ATING LOAD ANS (WALL+ ANS (GLASS LTRATION (GN DATA 70 (6 E 64 E 0: TRANSMIS ROOF): +SKYLITE): (GLASS ARE	DEG. F DEG. F SSION & IN	2016 B 11721 B 1947 B 15684 B	TOH TUH TUH TUH			LTG&PWR:	2.0 W/ 0.994 2.95	TO	LOC CFI INDEX FOR VENT MIN. CODE SUP MIN. CODE OUTS AIR CHAN	AD CFM = WSQ FT = ILATION= PLY AIR = BIDE AIR = GES/HR =	163 1: 1621 33 11
ATING DESI RM TEMP: DA TEMP: DELTA T: ATING LOAD ANS (WALL+ ANS (GLASS LTRATION (ETOTAL: ETY:	GN DATA 70 0 6 E 64 C 0: TRANSMIS ROOF): +SKYLITE): GLASS ARE	DEG. F DEG. F SSION & IN	NFILTRATION 2016 B 11721 B 1947 B 15684 B 1568 B	TOH TOH TOH TOH TOH			LTG&PWR:	2.0 W/	TO	LOC CFI INDEX FOR VENT MIN. CODE SUP MIN. CODE OUTS AIR CHAN	AD CFM = WSQ FT = TLATION= PLY AIR = SIDE AIR =	163 1: 1621 33 11
ELTA T: EATING DESI RM TEMP: DA TEMP: DELTA T: ATING LOAD ANS (WALL+ ANS (GLASS LTRATION (B TOTAL: ETY:	GN DATA 70 0 6 E 64 C 0: TRANSMIS ROOF): +SKYLITE): GLASS ARE	DEG. F DEG. F SSION & IN	2016 B 11721 B 1947 B 15684 B	TOH TOH TOH TOH TOH			LTG&PWR:	2.0 W/ 0.994 2.95	TO	LOC CFI INDEX FOR VENT MIN. CODE SUP MIN. CODE OUTS AIR CHAN	AD CFM = WSQ FT = ILATION= PLY AIR = BIDE AIR = GES/HR =	163 1: 1621 33 11
EATING DESI RM TEMP: OA TEMP: DELTAT:	GN DATA 70 (6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	DEG. F DEG. F SSION & IN A):	NFILTRATION 2015 B 11721 B 1947 B 15684 B 1568 B 17252 B	TOH TOH TOH TOH TOH			LTG&PWR: SH RATIO: TONNAGE:	2.0 W/ 0.994 2.95	T(LOC CFI INDEX FOR VENT MIN. CODE SUP MIN. CODE OUTS AIR CHAN	AD CFM = WSQ FT = ILATION= PLY AIR = BIDE AIR = GES/HR =	1636 11 16211 33 11 12
ELTA T: EATING DESI RM TEMP: DA TEMP: DELTA T: ATING LOAD ANS (WALL+ ANS (GLASS LITRATION (B TOTAL: ETY: IAL TRANS	GN DATA 70 (6 6 6 6 6 10 10 10 10 10 10 10 10 10 10 10 10 10	DEG. F DEG. F SSION & IN A): WFILTRATI	1721 B1 15684 B1 1722 B1 1568 B1 17252 B1	TOH TOH TOH TOH TOH			LTG&PWR: SH RATIO: TONNAGE:	2.0 W/ 0.994 2.96 BASIS: LO	T(LOC CFI INDEX FOR VENT MIN. CODE SUP MIN. CODE OUTS AIR CHAN	AD CFM = WSQ FT = ILATION= PLY AIR = SIDE AIR = GES/HR =	163 11 1621 33 11 12
ELTA T: EATING DESI RM TEMP: DA TEMP: DELTA T: ATING LOAD ANS (WALL+ ANS (GLASS ELTRATION (B TOTAL- ETY: TAL TRANS	GN DATA 70 0 6 E 64 C C: TRANSMIS ROOF: +SKYLITE): GLASS ARE 10% 8 INIFE : FORCED IN CFM F	DEG. F DEG. F SSION & IN A):	NFILTRATION 2016 B 11721 B 1947 B 1568 B 1568 B 17252 B	TOH TOH TOH TOH TOH			LTG&PWR: SH RATIO: TONNAGE:	2.0 W/ 0.994 2.96 BASIS: LO	T(INDEX FOR VENT MIN. CODE SUP MIN. CODE OUTS AIR CHAN FINA	AD CFM = WSQ FT = ILATION= PLY AIR = SIDE AIR = GES/HR =	163 11: 1621: 33: 11: 12: 163:
ELTA T: EATING DESI RM TEMP: DA TEMP: DELTA T: ATING LOAD ANS (WALL+ ANS (GLASS LTRATION (B TOTAL: ETY: IAL TRANS ATING LOAD LET CHEN	GN DATA 70 G 6 E 64 E 2: TRANSMIS ROOF: +SKYLITE: GLASS ARE: 10% 8 INIFE :: FORCED IN 100 0	DEG. F DEG. F SSION & IN A): WFILTRATI	1721 B1 15684 B1 1722 B1 1568 B1 17252 B1	TOH TOH TOH TOH TOH			LTG&PWR: SH RATIO: TONNAGE:	2.0 W/ 0.994 2.96 BASIS: LO	T(INDEX FOR VENT MIN. CODE SUP MIN. CODE OUTS AIR CHAN FINA	AD CFM = WSQ FT = ILATION= PLY AIR = GES/HR = L CFM = GEATING = ER GPM =	163 11 1621 33 11 12 163
ELTA T: EATING DESI RM TEMP: DA TEMP: DELTA T: ATING LOAD ANS (WALL+ ANS (GLASS LTRATION (B TOTAL: FETY: TAL TRANS ATING LOAD LET CHEN IERAL	GN DATA 70 0 6 E 64 C C: TRANSMIS ROOF: +SKYLITE): GLASS ARE 10% 8 INIFE : FORCED IN CFM F	DEG. F DEG. F SSION & IN A): IFILTRATI FACTOR 108	HWA 2016 B 11721 B 1947 B 15684 B 1568 B 17252 B 100N BTUH 6912	TOH TOH TOH TOH TOH			LTG&PWR: SH RATIO: TONNAGE:	2.0 W/ 0.994 2.96 BASIS: LO	T(INDEX FOR VENT MIN. CODE SUP MIN. CODE OUTS AIR CHAN FINA	AD CFM = WSQ FT = ILATION = PLY AIR = GES/HR = L CFM =	163 11 1621 33 11 12 163
ELTA T: EATING DESI RM TEMP: DA TEMP: DELTA T: ATING LOAD ANS (WALL+ ANS (GLASS LTRATION (B TOTAL: FETY: TAL TRANS ATING LOAD LET CHEN JERAL CK	GN DATA 70 (6) 64 (1) 65 (6) 67 (7) 68 (7) 69 (7	DEG. F DEG. F SSION & IN A): WEILTRATI -ACTOR 1 08 1 08	HWA 2016 B 11721 B 1947 B 15684 B 1568 B 17252 B 100N BTUH 6912	DEL T:			LTG&PWR: SH RATIO: TONNAGE:	2.0 W/ 0.994 2.96 BASIS: LO	T(INDEX FOR VENT MIN. CODE SUP MIN. CODE OUTS AIR CHAN FINA	AD CFM = WSQ FT = ILATION= PLY AIR = GES/HR = L CFM = GEATING = ER GPM =	163 11 1621 33 11 12 163
ELTA T: EATING DESI RM TEMP: DA TEMP: DELTA T: ATING LOAD ANS (WALL+ ANS (GLASS ILTRATION (GLASS ETY: FALTRANS ATING LOAD LET CHEN IERAL CK	GN DATA 70 (6 E 64 E	DEG. F DEG. F SSION & IN A): SFILTRATI FACTOR 1 08 1 08	1721 B1 1947 B1 15684 B1 1568 B1 17252 B1 100N BTUH 6912	DEL T:			LTG&PWR: SH RATIO: TONNAGE:	2.0 W/ 0.994 2.96 BASIS: LO	T(INDEX FOR VENT MIN. CODE SUP MIN. CODE OUTS AIR CHAN FINA	AD CFM = WSQ FT = ILATION= PLY AIR = GES/HR = L CFM = GEATING = ER GPM =	163 11 1621 33 11 12 163
ELTA T: EATING DESI RM TEMP: OA TEMP: DELTA T: ATING LOAD ANS (WALL+ ANS (GLASS 'L TRATION (B TOTAL: FETY: TAL TRANS	GN DATA 70 (6) 64 (1) 65 (6) 67 (7) 68 (7) 69 (7) 69 (7) 60 (7) 60 (7) 60 (7) 60 (7) 60 (7) 60 (7)	DEG. F DEG. F SSION & IN A): VFILTRATI -ACTOR 1 08 1 08 1 08	1568 61 1725 81 1568 61 1568 61 17252 81 1000 8TUH 6912 0	OBL T:			LTG&PWR: SH RATIO: TONNAGE:	2.0 W/ 0.994 2.96 BASIS: LO	T(INDEX FOR VENT MIN. CODE SUP MIN. CODE OUTS AIR CHAN FINA	AD CFM = WSQ FT = ILATION= PLY AIR = GES/HR = L CFM = GEATING = ER GPM =	3542 1630 11 1621 33 11: 12: 1630
ELTA T: EATING DESI RM TEMP: OA TEMP: DELTA T: ATING LOAD ANS (WALL+ ANS (GLASS ETRATION (ETRATION ETRATION ETTY: TAL TRANS ATING LOAD LET CHEN WERAL CK ÉER	GN DATA 70 (6) 64 (1) 65 (6) 67 (7) 68 (7) 69 (7) 69 (7) 60 (7) 60 (7) 60 (7) 60 (7) 60 (7) 60 (7)	DEG. F DEG. F SSION & IN A): VFILTRATI -ACTOR 1 08 1 08 1 08	15684 81 1721 81 15684 81 1568 81 17252 81 100N 8TUH 6912 0 0	OBL T:			LTG&PWR: SH RATIO: TONNAGE:	2.0 W/ 0.994 2.96 BASIS: LO	T(INDEX FOR VENT MIN. CODE SUP MIN. CODE OUTS AIR CHAN FINA	AD CFM = WSQ FT = ILATION= PLY AIR = GES/HR = L CFM = GEATING = ER GPM =	163 11 1621 33 11 12 163

Consulting	ve of the An	PC	UNI	JIIVA	IL-KE	EP II	V FILE		_	eating Load	MEW Y	tions street ork, ny
MAN IEA	¥.						LIGHTING:	2	W/SF	DATE: 19-Je	In-04	
PROJEC				508 0	er	1	POWER:	0	w	FLOOR #: 3-8		
DIMENSION		10 FT	×	306 U	·	1	PEOPLE:	1	PEOPLE	APT #:	5	
FLOOR AR		506 SF			- 1	1	RM TEMP:	74	DEG F	1		
CEILING H		9 33 FT					SA TEMP:	54	DEG F			
INTERIORA	PERIMETER	· .	Р									
										TRANSMISSION		
ENVELOPE	DATA					SOLAR		SHGF	BTUH	CLTD	U	втин
	EXP	MUM	нт	WTH	NETSF	SC	CLF	SHOP	3,5,1	1000000		_
20000000	6209			00	o					110	0 10	0
WALL	N		0 87		0	0.57	0 82	35	0	150	0 65	0
GLASS	N		0 70	00	10000	0 37	0.02		-	18 0	0.10	0
WALL	E		0 87	00	0	0.00	0.76	216	اه	70	0.65	. 0
GLASS	E		0 70	0.0	0	0 57	010	210	1	18 0	0.10	290
WALL	S		1 87	25 1	161			149	3900	160	0.65	582
GLASS	S		1 70	80	56	0 57	0 82	149		18 0	0 10	131
WALL	w		1 87	28 6	73	92,532.5		***	17668	17.0	0.65	1934
GLASS	w		1 70	25 0	175	0.57	0 82	216	1/000	43.0	0.20	0
ROOF			0 00	0.0	0	19,000	2524000		اء	2	2.00	0
KYLIGHT			0 00	00	0	1 00	0 85	247	٥١	1 6	0.00	0
LOOR			0 00	0.0	0	1			- 1	0	0.00	0
PARTITION			0 00	0.0	0	1			- 1		000	ō
ELING			0 00	0.0	0	1						
	A AND PER	METERS								erna	TOTAL=	2937
WALL ARE							SUI	S TOTAL=	21568	ERNAL LOAD T		24505
(SF)	AREA (EXT	ERNAL LUAD	UIAL-	24500
	231	-/1										
234	۵,											
						LATENT I	OAD			SENSIBLE LOAD		
NTERNAL C	COOLING	UAD		CLF				FACTOR	BTUH		FACTOR	BTU
			-	100	- 1	1		200 0	200		250 0	250
CCUPANT		1 PEOPL	27.00		- 1	1					34	3469
IGHTING	1000	IE WATTS		1 00	- 1	1					34	0
CUIPMENT		G WATTS	5	1 00	- 1					1	1.0	
ENS HEAT		BTUH		1 00	1	1		10	اه	1		
ATENT HE	ΛT	BTUH		1 00								
								07	0)		•	
ENTILATIO		C CFM		GRALD	- 1	1					11	
DUTDOOR A	JIR)		140	TD	- 1	1	SII	B TOTAL=	200	SUB	TOTAL=	2822
ENT RATE		0 CFMP	ERSON		- 1	1	0,-0	SAFETY=	20		SAFETY=	282
TOOM AIR					- 1	1		TLOAD=	220	SENSIBL		3104
ELTA T.	20	0 DEG F	100000				CATE	TI LOAD-				
							COOLING	CHMMADY	/ DATA			
	SIGN DAT			_			COOLING.			DTAL COOLING	LOAD=	3126
RM TEMP		70 DEG F		100020000	23900		1				D CFM =	143
OA TEM	>:	6 DEG F		L RATE:	7	CFWSF			wer		WSQ FT =	2
DELTA 1	T:	64 DEG F	н	W DEL T:	20 (DEG F	LTG&PWR		W/SF			982
							SH RATIO:			INDEX FOR VENT		10.77
	AD: TRAN	MISSION	& INFILTRATIO	N			TONNAGE	2.61		MIN. CODE SUPF		20
EATING LO				втин						MIN. CODE OUTS		
		E	0.000	BTUH			1			AIR CHAN	GESMR =	18
IANS (WAL	aavan III i		77.77	BTUH	1							
TANS (WAL		WEA)						_				
TANS (WAL TANS (GLA FILTRATIO			12704				1	BASIS:	LOAD	FINA	L CFM =	143
TANS (WAL TANS (GLA FILTRATIO JB TOTAL:	N (GLASS		1270	BTUH			1	STAIG.	Corto			
LANS (WAL LANS (GLA FILTRATIO JB TOTAL: VFETY:	N (GLASS	%		DTHU								_
LANS (WAL LANS (GLA FILTRATIO JB TOTAL: VFETY:	N (GLASS	-	13975	BIUN			re constant	SINMARY	DATA			
TANS (WAL TANS (GLA FILTRATIO JB TOTAL: VFETY: OTAL TRAN	N (GLASS A			BION			HEATING !					177
UANS (WAL RANS (GLA FILTRATIO JB TOTAL: UFETY: OTAL TRAN	IGLASS	D INFILTE	ATION	BION			HEATING S	30mmAX1		TOTAL WINTER H	EATING =	
TANS (WAL RANS (GLA FILTRATIO JB TOTAL: UFETY: JTAL TRAN EATING LO	IO (GLASS A IO IS & INIFL AD: FORCE	ED INFILTE	ATION OR BTUH	BION			HEATING S	JOHN MAN			EATING = ER GPM =	
RANS (WAL RANS (GLA FILTRATIO JB TOTAL: VFETY: JTAL TRAN EATING LO	IO (GLASS A IO IS & INIFL AD: FORCE	FACTO	ATION R BTUH	BION			HEATING S	JOHENAN				
RANS (WAL RANS (GLA FILTRATIO JB TOTAL VETY: DTAL TRAN EATING LO DILET TOHEN	IO (GLASS A IO IS & INIFL AD: FORCE	FACTO 50 10	ATION OR BTUH OB 3456	BION			HEATING S	JOHEMAN				
RANS (WAL RANS (GLA FILTRATIO JB TOTAL VETY: DTAL TRAN EATING LO DILET TOHEN	IO (GLASS A IO IS & INIFL AD: FORCE	FACTO	ATION OR BTUH OB 3456	BION			HEATING S	JOHEMAN				
CANS (WAL CANS (GLA FILTRATIO JB TOTAL VETY: OTAL TRAN EATING LO DILET TOHEN ENERAL	IO (GLASS A IO IS & INIFL AD: FORCE	FACTO 50 10	EATION SR BTUH SS 3456 SS 0 0	BION			HEATING S	JOHN MAKE				
RANS (WAL RANS (GLA FILTRATIO JB TOTAL: UFETY: JTAL TRAN EATING LO DILET TOHEN ENERAL EACK	IO (GLASS A IO IS & INIFL AD: FORCE	FACTO 50 10 0 10 0 10	EATION SR BTUH SS 3456 SS 0 SS 0	BION			HEATING S	JOHN MAKE				
RANS (WAL RANS (GLA IFILTRATIO UB TOTAL VFETY: DTAL TRAN EATING LO DILET TOHEN ENERAL FACK RYER	IO (GLASS A IO IS & INIFL AD: FORCE	FACTO 50 10 0 10	EATION DR BTUH DB 3456 DB 0 DB 0				HEATING S	JOHN MAKE				
RANS (WAL RANS (GLA FELTRATIO JB TOTAL VETY: JTAL TRAN EATING LO DILET TOHEN ENERAL ENERAL ENERAL ENERAL	N (GLASS	FACTO 0 10 0 10 0 10	EATION DR BTUH DB 3456 DB 0 DB 0 DB 0 DB 0 DB 0	втин			HEATING S	JOHN MAC				
TANS (WAL RANS (GLA FILTRATIO JB TOTAL VFETY: JTAL TRAN EATING LO DILET TOHEN ENERAL ACK	N (GLASS	ED INFILTE FACTO 50 10 0 10 0 10	EATION DR BTUH DB 3456 DB 0 DB 0 DB 0 DB 0 DB 0	втин втин			HEATING S	JOHN MAC				

Priviled on 18/24/2006 at 8:47 AM

F.166 LEANARDA 188 Leonard HYAC Load Calculations Edison Parking

Lilker A Consulting E 1001 Avenue New York, N 212 695-100	of the Amer Y 10018			JKIG	INAL	-KEI	PIN	FILE	ling & He	eating Load	88 LEONAR	ations D STREET YORK, NY
PROJECT: DIMENSION: FLOOR ARE CEILING HT: INTERIOR/PR	S: 10 A: 50 93	FT SF SFT	×	501.0	FT		POWER: PEOPLE: RM TEMP: SA TEMP:	2 W 0 W 1 P 74 D 54 D	EOPLE EG F	DATE: 19- FLOOR #: 3-8 APT #:		
							OX ILMF.	34 0				
ENVELOPE D	EXP	NUM				SOLAR				TRANSMISSION		
	EAP	NUM	HT	WTH	NETSF	SC	CLF	SHGF	BTUH	CLTD	U	BTU
WALL	N		0 87	00		И			9	11.0	0 10	0
GLASS	N		0 7.0			0 57	0.82	35	۰	150	0 65	ō
WALL	E		0 87			100000	0717704	95.72		18.0	0 10	
GLASS WALL	E S		0 70		0.000	0 57	0.76	216	•	7.0	0 65	
GLASS	S		1 87		133	0 57	0.82	. 149	9262	18 0	0.10 0.65	106
WALL	w		0 67		133	05/	0.82	. 149	9202	180	0.10	130
GLASS	w		0 70		ő	0 57	0.82	216	0	170	0.65	- 7
ROOF			0 00		0	60,000				43 0	0.20	
SKYLIGHT FLOOR			0 00		0	1.00	0.85	247	0	2	2.00	
PARTITION			0 0.0	00	0	1					0.00	
CEILING			0 00	00		1				0	0.00	
TOTAL AREA	AND PERIM										0.00	
WALL AREA	GLASS	1					SU	B TOTAL=	9262	SOF	TOTAL=	149
(SF)	AREA (SF)								EXT	ERNAL LOAD	TOTAL=	1075
NTERNAL CO		,				LATENT	040			SENSIBLE LOAD		
	- Carro Eur			CLF		C	LUND	FACTOR	BTUH	SENSIBLE COAL	FACTOR	ВТО
DCCUPANTS	1	PEOPLE		1 00	- 1	1		200 0	200		250 0	25
JIGHTING	27:0	WATTS		1 00	- 1	1				l	34	342
EQUIPMENT	0	WATTS		1 00	- 1	1			-	1	3.4	
CENC HEAT		OTIM		1.00	- 1	1337				1		
ENS HEAT		BTUH		100	- 1						10	
ATENT HEAT		BTUH		1 00		Ľ_		10			10	-
ENTILATION				1 00 GRALB	_			10	<u>;</u>		10.	
ENTILATION OUTDOOR AIR)	ВТИН С FM	14 0	1 00 GRALB	\dashv			07	•		11	
ENTILATION OUTDOOR AIR ENT RATE:)	BTUH	14 0	1 00 GRALB				07 S TOTAL=	200	25253	11 B TOTAL=	1442
ENTILATION OUTDOOR AIR	0	ВТИН С FM	14 0	1 00 GRALB				07	•		11	1442
ENTILATION OUTDOOR AIR ENT RATE: ROOM AIR	0 20 0 GN DATA	BTUH CFM CFM/PE	14 0	1 00 GRALB			LATEN	07 B TOTAL= SAFETY=	200 20 20 220	SENSIBI	1 1 B TOTAL= SAFETY= LE LOAD=	1442 144 1586
EATING DESI	0 20 0 GN DATA	BTUH CFM/PEF DEG F	RSON 14 0	1 00 GRALB	010	:FWSF	LATEN	07 B TOTAL= SAFETY= IT LOAD=	200 20 20 220	SENSIBI	1 1 B TOTAL= SAFETY= LE LOAD=	1442 144 1586
ATENT HEAT VENTILATION OUTDOOR AIR ENT RATE: ROOM AIR DELTA T: EATING DESK RIM TEMP:	20 0 20 0 GN DATA 70	CFM CFM/PE/DEG F	RSON 14 0	GRALB TD		CFWSF DEG F	LATEN	07 B TOTAL= SAFETY= IT LOAD= SUMMARY D	200 20 20 220	SENSIBLE OTAL COOLING	1 1 B TOTAL= SAFETY= LE LOAD=	1442 144 1586
ATENT HEAT VENTILATION OUTDOOR AIR VENT RATE: ROOM AIR DELTA T: EATING DESK RIA TEMP: OA TEMP: DELTA T:	20 0 GN DATA 70 6	CFM/CFM/PEI DEG F DEG F DEG F DEG F	INF	GRACE TD			COOLING S	07 B TOTAL= SAFETY= IT LOAD= SUMMARY D	200 200 220 220	SENSIBLE OTAL COOLING	11 B TOTAL= SAFETY= LE LOAD= AD CFM = MSQ FT =	1442 144 1586 1608 73
ATENT HEAT VENTILATION OUTDOOR AIR VENT RATE: ROOM AIR VELTA T: EATING DESK RM TEMP: OA TEMP: DELTA T:	0 20 0 GN DATA 70 6 64	CFM/CFM/PEI DEG F DEG F DEG F DEG F	IA 0	GRACE TD SIL RATE: W DEL T:			COOLING S	07 B TOTAL= SAFETY= IT LOAD= SUMMARY D	200 200 220 220	SENSIBI DTAL COOLING LO. CFI INDEX FOR VENT MIN. CODE SUP	I I I B TOTAL= SAFETY= LE LOAD= AD CFM = MILATION= PLY AIR =	1442 144 1586 1608 73 1
ATENT HEAT VENTILATION OUTDOOR AIR VENT RATE: ROOM AIR VELTA T: EATING DESI RM TEMP: O A TEMP: DELTA T: EATING LOAD RANS (WALL+	0 20 0 GN DATA 70 6 64 6: TRANSMI:	CFM/CFM/PEI DEG F DEG F DEG F DEG F	INFILTRATIC 385	TO GRALB TO TO FIL RATE: W DEL T: ON			COOLING S	07 B TOTAL= SAFETY= IT LOAD= SUMMARY D	200 200 220 220	SENSIBI OTAL COOLING LO. CFI INDEX FOR YEAR MIN. CODE SUP MIN. CODE OUTS	I 1 B TOTAL= SAFETY= LE LOAD= AD CFM = WSQ FT = MSQ FT = PLY AIR = SIDE AIR =	1442 1444 1586 1608 73 1 1 966 20
ATENT HEAT VENTILATION OUTDOOR AIR OUTDOO	20 0 GN DATA 70 6 54 0: TRANSMI: ROOF):	CFM CFM/PEI DEG F DEG F DEG F DEG F DEG F DEG F	INFILTRATIC 385 5533	TO GRALB TO TO SIL RATE: W DEL T:			COOLING S	07 B TOTAL= SAFETY= IT LOAD= SUMMARY D	200 200 220 220	SENSIBI DTAL COOLING LO. CFI INDEX FOR VENT MIN. CODE SUP	I 1 B TOTAL= SAFETY= LE LOAD= AD CFM = WSQ FT = MSQ FT = PLY AIR = SIDE AIR =	1442 1444 1586 1608 73 1 1 966 20
ATENT HEAT VENTILATION OUTDOOR AIR VENT RATE: ROOM AIR VELTA T: EATING DESI RM TEMP: O A TEMP: DELTA T: EATING LOAD RANS (WALL+	20 0 GN DATA 70 6 54 0: TRANSMI: ROOF):	CFM CFM/PEI DEG F DEG F DEG F DEG F DEG F DEG F	INFILTRATIC 385 5533 919	GRALB TD SIL RATE: W DEL T: NN BTUH BTUH BTUH			COOLING S	07 B TOTAL= SAFETY= IT LOAD= SUMMARY D	200 200 220 220	SENSIBI OTAL COOLING LO. CFI INDEX FOR YEAR MIN. CODE SUP MIN. CODE OUTS	I 1 B TOTAL= SAFETY= LE LOAD= AD CFM = WSQ FT = MSQ FT = PLY AIR = SIDE AIR =	1442 1444 1586 1608 73 1 1 966 20
ATENT HEAT VENTILATION OUTDOOR AIR VENT RATE: ROOM AIR DELTA T: EATING DESK RIA TEMP: DELTA T: EATING LOAD TANS (WALL+ TANS (GLASS FILTRATION ()	20 0 GN DATA 70 6 54 0: TRANSMI: ROOF):	CFM CFM/PEI DEG F DEG F DEG F DEG F DEG F DEG F	14 0 RSON INFILTRATIC 385 5533 919 6837	GRALB TD SIL RATE: W DEL T: NN BTUH BTUH BTUH			COOLING S	07 B TOTAL= SAFETY= IT LOAD= SUMMARY D 20 W 0.966 1.34	200 200 220 220	SENSIBI DTAL COOLING LO. CFI INDEX FOR VENT MIN. CODE SUP MIN. CODE OUTS AIR CHAM	I I I B TOTAL= SAFETY= LE LOAD= LOAD= MSQ FT = ILATION= PLY AIR = IDE AIR = GESIMR =	1442 144 1586 1608 73 1 1 968 20
ATENT HEAT VENTILATION OUTDOOR AIR VENT RATE: ROOM AIR DELTA T: EATING DESK RIA TEMP: DELTA T: EATING LOAD RANS (WALL+ RANS (GLASS FILTRATION)	GN DATA 70 61 64 9: TRANSMI: ROOF): -SKYLITE): GLASS ARE	CFM CFM/PEI DEG F DEG F DEG F DEG F DEG F DEG F	14 0 RSON INFILTRATIC 385 5533 919 6837	GRALB TD TL RATE: W DEL T: ON BTUH BTUH BTUH BTUH BTUH BTUH			COOLING S	07 B TOTAL= SAFETY= IT LOAD= SUMMARY D	200 200 220 220	SENSIBI DTAL COOLING LO. CFI INDEX FOR VENT MIN. CODE SUP MIN. CODE OUTS AIR CHAM	I 1 B TOTAL= SAFETY= LE LOAD= AD CFM = WSQ FT = MSQ FT = PLY AIR = SIDE AIR =	1442 144 1586 1608 73 1 1 968 20
ATENT HEAT VENTILATION OUTDOOR AIR VENT RATE: ROOM AIR VELTA T: EATING DESK RIM TEMP: OA TEMP: DELTA T: EATING LOAD TANS (WALL+ VANS (GLASS FALTRATION (URITOTAL: VEETY:	GN DATA 70 6 64 1: TRANSMI: ROOF): SKYLITE): GLASS ARE 10% E INIFIL	CFM CFM/PEI DEG F	INFILTRATIC 385 5533 919 684 7521	GRALB TD TL RATE: W DEL T: ON BTUH BTUH BTUH BTUH BTUH BTUH			LATEN COOLING S LTG&PWR: SH RATIO: TONNAGE:	07 B TOTAL= SAFETY= IT LOAD= SUMMARY D 20 W 0.966 1.34	200 200 220 220 ATA TO	SENSIBI DTAL COOLING LO. CFI INDEX FOR VENT MIN. CODE SUP MIN. CODE OUTS AIR CHAM	I I I B TOTAL= SAFETY= LE LOAD= LOAD= MSQ FT = ILATION= PLY AIR = IDE AIR = GESIMR =	1442 144 1586 1608 73 1 968 20 6
ATENT HEAT VENTILATION OUTDOOR AIR VENT RATE: ROOM AIR DELTA T: EATING DESK RIA TEMP: DELTA T: EATING LOAD RANS (GLASS FILTRATION () RETOTAL: VEETY: DIAL TRANS () EATING LOAD	O 20 0 GN DATA 70 6 64 1: TRANSMI: ROOF): SKYLITE): GLASS ARE 10% S INIFIL : FORCED II	CFM CFMPEI DEG F D	INFILTRATIC 385 5533 919 684 7521	GRALB TD TL RATE: W DEL T: ON BTUH BTUH BTUH BTUH BTUH BTUH			LATEN COOLING S LTG&PWR: SH RATIO: TONNAGE:	O7 B TOTAL = SAFETY= IT LOAD= SUMMARY D 20 W 0 996 1 34 BASIS: LC	200 200 220 220 ATA TO	SENSIBLE OTAL COOLING CFI INDEX FOR VENT MIN. CODE SUPT AIR CHAN FINA	I 1 B TOTAL= SAFETY= LE LOAD= LE LOAD= WSQ FT = ILATION= PLY AIR = SIDE AIR = GESTHR =	1442 144 1586 1608 73 1 968 20 6 9
ATENT HEAT VENTILATION OUTDOOR AIR VENT RATE: ROOM AIR VELTA T: EATING DESK RM TEMP: OA TEMP: DELTA T: EATING LOAD TANK (GLASS FALTRATION (JETOTAL: VETY: TIAL TRANK (LATING LOAD LATING LOAD LATING LOAD LATING LOAD	GN DATA 70 6 H 6: TRANSMI: ROOF): SKYLITE): GLASS ARE 10% 5 INIFIL : FORCED II	CFM CFMPEI DEG F DEG F DEG F DEG F DEG F A):	INFILTRATIO 385 5533 919 684 7521 I	GRALB TD TL RATE: W DEL T: ON BTUH BTUH BTUH BTUH BTUH BTUH			LATEN COOLING S LTG&PWR: SH RATIO: TONNAGE:	O7 B TOTAL = SAFETY= IT LOAD= SUMMARY D 20 W 0 996 1 34 BASIS: LC	200 200 220 220 ATA TO	SENSIBLE OTAL COOLING CFI INDEX FOR VENT MIN. CODE SUPT AIR CHAN FINA	I 1 B TOTAL= SAFETY= LE LOAD= AD CFM = WSQ FT = MSQ FT =	1442 144 1586 1608 73 1 968 20 6 9
ATENT HEAT VENTILATION OUTDOOR AIR OUTDOO	O 20 0 GN DATA 70 6 64 9: TRANSMI: ROOF): -SKYLITE): GLASS ARE 10% E INIFIL : FORCED II	CFM CFMPEI CFMPEI DEG F DEG F DEG F DEG F SSION & A):	INFILTRATIC 385 5537 684 7521 TION BTUH 3456	GRALB TD TL RATE: W DEL T: ON BTUH BTUH BTUH BTUH BTUH BTUH			LATEN COOLING S LTG&PWR: SH RATIO: TONNAGE:	O7 B TOTAL = SAFETY= IT LOAD= SUMMARY D 20 W 0 996 1 34 BASIS: LC	200 200 220 220 ATA TO	SENSIBLE OTAL COOLING CFI INDEX FOR VENT MIN. CODE SUPT AIR CHAN FINA	I 1 B TOTAL= SAFETY= LE LOAD= LE LOAD= WSQ FT = ILATION= PLY AIR = SIDE AIR = GESTHR =	1442 144 1586 1608 73 1 968 20 6 9
ATENT HEAT PENTILATION OUTDOOR AIR SENT RATE: ROOM AIR DELTA T: EATING DESI RM TEMP: OA TEMP: DELTA T: EATING LOAD TANS (WALL+ TANS (WALL+ TANS (WALL+ TANS TANS TANS TANS TANS TANS TANS TANS	O 20 0 GN DATA 70 6 6 6 4 10 11 11 11 11 11 11 11 11 11 11 11 11	CFM CFMPEI CFMPEI DEG F DEG F DEG F DEG F A): NFILTRA FACTOR 1 08 1 08	INFILTRATIC 385 5533 919 5837 684 7521 TION BTUH 3456 0	GRALB TD TL RATE: W DEL T: ON BTUH BTUH BTUH BTUH BTUH BTUH			LATEN COOLING S LTG&PWR: SH RATIO: TONNAGE:	O7 B TOTAL = SAFETY= IT LOAD= SUMMARY D 20 W 0 996 1 34 BASIS: LC	200 200 220 220 ATA TO	SENSIBLE OTAL COOLING CFI INDEX FOR VENT MIN. CODE SUPT AIR CHAN FINA	I 1 B TOTAL= SAFETY= LE LOAD= LE LOAD= WSQ FT = ILATION= PLY AIR = SIDE AIR = GESTHR =	1442 1444 1586 1608 73 1 968 20 6 9
ATENT HEAT VENTILATION OUTDOOR AIR VENT RATE: ROOM AIR DELTA T: EATING DESI RM TEMP: O A TEMP: DELTA T: EATING LOAD RANS (WALL+ RANS (GLASS FELTRATION () US TOTAL: VETY: VETY: CATING LOAD ILET CCHEN NERAL ACK	GN DATA 70 6 64 1: TRANSMI: ROOF): SKYLITE): GLASS ARE 10% E INIFIL CFM 0 0	CFM/PEI CFM/PEI DEG F DE	14 0 RSON INFILTRATIC 385 5533 919 684 1 7521 1 TION BTUH 3456 0	GRALB TD TL RATE: W DEL T: ON BTUH BTUH BTUH BTUH BTUH BTUH			LATEN COOLING S LTG&PWR: SH RATIO: TONNAGE:	O7 B TOTAL = SAFETY= IT LOAD= SUMMARY D 20 W 0 996 1 34 BASIS: LC	200 200 220 220 ATA TO	SENSIBLE OTAL COOLING CFI INDEX FOR VENT MIN. CODE SUPT AIR CHAN FINA	I 1 B TOTAL= SAFETY= LE LOAD= LE LOAD= WSQ FT = ILATION= PLY AIR = SIDE AIR = GESTHR =	1442 144 1586 1608 73 1 968 20 6 9
ATENT HEAT VENTILATION OUTDOOR AIR VENT RATE: ROOM AIR DELTA T: EATING DESK RIA TEMP: DELTA T: EATING LOAD TANNS (WALL+ ARNS (GLASS FALTRANS) TAL TRANS TO CATING LOAD MLET TCHEN NERAL ACK YER	O 20 0 GN DATA 70 6 6 6 4 10 11 11 11 11 11 11 11 11 11 11 11 11	CFM CFMPEI CFMPEI DEG F DEG F DEG F DEG F A): NFILTRA FACTOR 1 08 1 08	INFILTRATIC 385 5533 919 5837 684 7521 TION BTUH 3456 0	GRALB TD GRALB			LATEN COOLING S LTG&PWR: SH RATIO: TONNAGE:	O7 B TOTAL = SAFETY= IT LOAD= SUMMARY D 20 W 0 996 1 34 BASIS: LC	200 200 220 220 ATA TO	SENSIBLE OTAL COOLING CFI INDEX FOR VENT MIN. CODE SUPT AIR CHAN FINA	I 1 B TOTAL= SAFETY= LE LOAD= LE LOAD= WSQ FT = ILATION= PLY AIR = SIDE AIR = GESTHR =	1442 144 1586 1608 73 1 968 20 6 9
ATENT HEAT VENTILATION OUTDOOR AIR VENT RATE: ROOM AIR DELTA T: EATING DESI RM TEMP: O A TEMP: DELTA T: EATING LOAD RANS (WALL+ RANS (GLASS FELTRATION () US TOTAL: VETY: VETY: CATING LOAD ILET CCHEN NERAL ACK	GN DATA 70 6 64 1: TRANSMI: ROOF): SKYLITE): GLASS ARE 10% E INIFIL CFM 0 0	CFM/PEI CFM/PEI DEG F DE	14 0 RSON INFILTRATIC 385 5533 919 684 7521 1 TION BTUH 3456 0 0	TO GRALB TO T			LATEN COOLING S LTG&PWR: SH RATIO: TONNAGE:	O7 B TOTAL = SAFETY= IT LOAD= SUMMARY D 20 W 0 996 1 34 BASIS: LC	200 200 220 220 ATA TO	SENSIBLE OTAL COOLING CFI INDEX FOR VENT MIN. CODE SUPT AIR CHAN FINA	I 1 B TOTAL= SAFETY= LE LOAD= LE LOAD= WSQ FT = ILATION= PLY AIR = SIDE AIR = GESTHR =	1608 73 1 968 20 6 9

ORIGINAL-KEEP IN FILE Cooling & Heating Load Calculations Lilker Associates Consulting Engineers, P C 1001 Avenue of the Americas ew York, N Y 10018 212 695-1000 DATE: 19-Jan-04 LIGHTING PROJECT: FLOOR #: 3-8 POWER: 325 0 FT DIMENSIONS: 10 FT 1 PEOPLE 74 DEG F PEOPLE: APT #: FLOOR AREA 325 SF 933 FT 54 DEG F SA TEMP INTERIOR/PERIMETER: TRANSI ENVELOPE DATA BTUH CLTD CIT. NUM EXE 11.0 150 0 85 0 0 82 35 0 0.0 GLASS 70 0 10 00 WALL 70 0 85 216 0.76 GLASS 70 00 0 0.57 0.10 180 60 67 87 146 160 0.57 0.82 149 4631 95 70 GLASS 0 0.10 WALL 17.0 0.85 216 70 0.0 0 0.57 0.82 GLASS 0 20 43.0 0 00 00 0 200 247 ٥ 2 0.85 1 00 00 SKYLIGHT 0.0 0 0.00 0 FLOOR 0.0 00 ō 0.00 PARTITION 0 0.00 0.0 0 TOTAL AREA AND PERIMETERS SUB TOTAL SUB TOTAL: WALL AREA GLASS 5431 EXTERNAL LOAD TOTAL= 67 SENSIBLE LOAD LATENT LOAD INTERNAL COOLING LOAD BTUH BTUH FACTOR CIE 250 D 250 200 0 OCCUPANTS 1 PEOPLE 1 00 2219 34 LIGHTING 650 WATTS 1.00 34 1 00 0 WATTS EQUIPMENT 0 10 1 00 SENS HEAT BTUH 10 1 00 LATENT HEAT 450 GRALB VENTRATION A CEM 140 TD (OUTDOOR AIR) SUB TOTAL= SUB TOTAL 200 7900 VENT RATE: 0 CFMPERSON 20 SAFETY= 790 SAFETY-ROOM AIR SENSIBLE LOAD LATENT LOAD-DELTA T: 200 DEG F **COOLING SUMMARY DATA** HEATING DESIGN DATA TOTAL COOLING LOAD= 8910 70 DEG F RM TEMP LOAD CFM = 0.1 CFWSF INFIL RATE: OA TEMP 6 DEG F 20 DEG F 2.0 W/SF CFM/SQ FT = 12 HW DEL T: DELTA T: 64 DEG F SH RATIO: 0 975 INDEX FOR VENTILATION= 6282 TONNAGE: 074 MIN. CODE SUPPLY AIR = 130 HEATING LOAD: TRANSMISSION & INFILTRATION 384 BTUH MIN. CODE OUTSIDE AIR = 43 TRANS (WALL+ROOF): AIR CHANGES/HR = 80 TRANS (GLASS+SKYLITE): 2766 BTUH NFILTRATION (GLASS AREA): 460 BTUH SUB TOTAL: 3510 BTUH FINAL CFM = 402 361 BTUH BASIS: LOAD TOTAL TRANS & INIFIL. 3971 BTUH **HEATING SUMMARY DATA HEATING LOAD: FORCED INFILTRATION** TOTAL WINTER HEATING = 15375 FACTOR TOILET 1.08 3456 WATER GPM -15 KITCHEN 100 1.08 6912 GENERAL 0 1 08 0 STACK 0 1.08 0 DRYER 0 1.08 0 TOTAL 10358 BTUH 10% 1037 BTUH SAFETY TOTAL FORCED INFILTRATION 11405 BTUH

Printed on 10/24/2006 at 8:47 AM

17.55

F188 LEANARDA 188 Leonard HVAC Load Calculations Edison Parking

Consulting 1001 Aven New York, 212 695-10	Engineer nue of the NY 100	s, P C Americ			OR	IGIN	IAL-K	(EEP				eating Load		STREET YORK, NY
PROJECT DIMENSIC FLOOR AF CEILING F INTERIOR	ONS. REA: IT:	1 0 538 9.33 TER:	SF		×	538 0	FT		POWER: PEOPLE: RM TEMP: S A. TEMP:	74 D		FLOOR #: 3-8 APT #:	10	
												TRANSMISSION		
ENVELOP			1/4					SOLAR	CLF	SHGF	BTUH	CLTD	U	BTU
	EXP		NUM		нт.	WTH	NET SF	30	001				0 10	
				0	87	0.0	0					11 0 15 0	0 65	Č
WALL GLASS	N			o	70	0.0	1000	0 57	0 82	35	0	18 0	0 10	(
WALL	E			0	87	0.0	2		0.75		0	70	0.65	(
GLASS	E			0	70	0.0		0.57	0.76	215	۰	18 0	0 10	125
WALL	S			1	8 7	23 4	17 00000000	0.07	0.82	149	9262	16 0	0 65	1383
GLASS	s			1	7.0	190	200000	0 57	0 02			18 0	0 10	6
WALL	w			0	87 70	00	20 2000	0.57	0.82	218	0	17.0	0 65	
GLASS	w			0	00	00	200	1	1,500			43 0	2 00	-
ROOF				0	00	0.0	9070	1 00	0 85	247	0	2 0	000	21
SKYLIGHT FLOOR				0	0.0	0.0	0						0.00	
PARTITION	4			0	00	0.0					- 1	0	0.00	
CEILING	***			0	00	0.0	0							
TOTAL AR	EA AND F	ERIME	TERS					_	SUE	TOTAL=	9262		TOTAL=	150
WALL ARI (SF)	ARE	ASS A (SF)									EXT	ERNAL LOAD T	OTAL=	1077
70		-						THE DE			500	SENSIBLE LOAD		
NTERNAL	COOLIN	GLOA	D					LATENT	LOAD	FACTOR	BTUH		FACTOR	BTU
						CLF				200 0	200		250 0	25
OCCUPAN	TS		PEOPL			100							34	367
LIGHTING			WATTS			100		1			-		10	
EQUIPMEN			BTUH	•		1 00	8	1					10	
ATENT HE			BTUH			1 00		-		10	0			
AIENTH	-	_	0,0						The latest the second	07	01			
ENTILATI	ON	0	CFM			GR/LB		1		٠.		1	1.1	
OUTDOOR	AIR)				140	TD			SUE	TOTAL=	200	7.7.	TOTAL=	1455
ENT RAT		0	CFM/P	ERSC	IN					SAFETY=	20		SAFETY=	1616
ROOM AIR	t	20.0	DEG F						LATEN	T LOAD=	220	SENSIBL	E LOAD=	1010
DELTA T:		200	DEG F					A.c.		SUMMARY	DATA			
EATING D	ESIGN D	ATA							COOLING	30minost 1	T	TAL COOLING	LOAD=	163
RM TEM	AP:	70	DEG F	-	See 2 7 8 6 7			FWSF	11			LOA	D CFM =	74
OA TEN	MP:		DEG F			IL RATE		EG F	LTG&PWR:	20 V	V/SF		VSQ FT =	١
DELTA	T:	64	DEG F	¥	н	W DEL T	: 20 0	/EG.I	SH RATIO:	0.987		INDEX FOR VENT		104
									TONNAGE:	1 37		MIN. CODE SUPP	LY AIR =	2
EATING L	OAD: TR	ANSMI	SSION	& INF	ILTRAIR	BTUH	1					MIN. CODE OUTS		
RANS (WA			85		5533		1					AIR CHANG	SES/HR =	8
RANS (GL					7	BTUH	1		Production and	the state of the state of				
WEILTRATI		S ARE	Α).		6898		1			1-00-00-00-00-00-00-00-00-00-00-00-00-00	00000000	en e	CEM -	74
UB TOTAL	-	101/	_	_		HUTE	1		-	BASIS: L	OAD	FINAL	CFM =	
AFETY:	No e w	10%			7588		1			er Reported				
OTAL TRA	M2 & INI	rit.			. 500		,		VI. 10. (10.1.)					
EATING L	OAD: FO	RCED	INFILTE	RATIO	N	I.S.			HEATING S	SUMMARY	DATA	TOTAL WINTER H	EATING =	189
			FACTO		BTUH	6	7					WATI	R GPM =	
OLET	1000	50	10		3456				1. 3	-		,,,,,,		
ITCHEN		100	10	80	6912		1							
ENERAL		0	10	82	0		1							
TACK		0	10	80	0		1							
RYER		0	10	08	0		1							
OTAL		T. Sand	111		10368		1							
		10%			1037	STUH	1							
AFETY: OTAL FOR					11405		4							

Lilker Ass			U	HIGIN	4L-K	ttp I	N 1949	ing & He	ating Load	DO FECURALIS	STREET ORK, NY
Consulting Engine 1001 Avenue of th New York, N Y 10	e Americas									NEWT	ORN, MI
212 695-1000							2 W	ISF .	DATE: 19-	Jan-04	
PROJECT:			201 887 - 8829	2.4282.4428		LIGHTING: POWER:	0 W		FLOOR #: 3-8		
DIMENSIONS:	10 FT		X 32	20 FT	11	PEOPLE:		EOPLE	APT#:	11	
FLOOR AREA:	322 SF					RM TEMP:	74 D				
CEILING HT: INTERIOR/PERIM	933 FT ETER:	P				S.A. TEMP:	54 D	EG F			
arrentorer erem					1.12						
ENVELOPE DATA					SOLAR				TRANSMISSION	- 0	втин
ENVELUPE DATA			HT WTH	NETSF	SC	CLF	SHGF	втин	00.00		
							3		110	0.10	0
WALL N		0	77.77 (c) 133	00 0	0.57	0 82	35	0	150	0.65	0
GLASS N		0	0.00	00 0	""	10.75		0.00	18.0	0 10	ől
WALL E		ŏ		00 0	0 57	0.75	216	0	7.0	0 10	127
WALL S		1		58 70			0.000		16.0	0 65	692
GLASS S		1		95 67	0.57	0 82	149	4631	180	0.10	0
WALL W		0	87	00 0		2 110	***	اه	17.0	0.65	0
GLASS W		0		00 0	0.57	0 82	216	۳	43.0	0 20	0
ROOF		0		0.0 0	3022		247	اه	2	2 00	0
SKYLIGHT		0	C. T	00 0	1 00	0.85	247	*	0	0.00	0
FLOOR		0		00 0	11				0	0.00	0
PARTITION		0		00 0					0	0.00	0
CEILING TOTAL AREA ANI	DEDIVIETES	-	- 00	00 0						B TOTAL=	818
	GLASS					SU	B TOTAL	4631	ERNAL LOAD		5449
********	REA (SF)							EXT	ERNAL LUAD	TOTAL-	0110
70	67										
							17.50		SENSIBLE LOA	D	17
INTERNAL COOL	ING LOAD				LATENT	LOAD	FACTOR	BTUH	CE-TO-DE-E	FACTOR	BTUH
		1	CLI				200 0	200		250 0	250
OCCUPANTS	1 PEC			00	11					34	2199
LIGHTING	644 WA			00				-		34	0
EQUIPMENT	0 WA			00				-		1.0	0
SENS HEAT LATENT HEAT	BTL			00			1.0	0		•	
CATCHI TICAL											
VENTILATION	0 CFA		450 GRALI	3			07	0	1	1.1	0
(OUTDOOR AIR)		Laboration	140 TD			en	B TOTAL=	200	SI	B TOTAL=	7898
VENT. RATE:	0 CFM	MPERSO	N .			40	SAFETY=	20		SAFETY=	790
ROOM AIR DELTA T:	20.0 DEC					LATE	NT LOAD-	220	SENSIE	LE LOAD=	8688
DELIA I:	200 000										
						COOLING	SUMMARY	DATA			
RM TEMP:	70 DEC							TO	TAL COOLIN	G LOAD=	8908
OA TEMP:	8 DEC	2000	INFIL.RA	TE: 01	CFWSF	1467			LC	DAD CFM =	402
DELTAT:	64 DEC		HW DE		DEG. F	LTG&PWF	2.0 V	V/SF	CI	M/SQ FT =	12
DELIA I.	04 DEC		1111 02			SH RATIO	0.975		INDEX FOR VEN	TILATION=	6224
HEATING LOAD:	TRANSMISSI	ON & INF	ILTRATION .			TONNAGE	0.74		MIN. CODE SUI	PPLY AIR =	129
TRANS (WALL+R)			450 BTUH						MIN. CODE OUT	SIDE AIR =	43
TRANS (GLASS+			2755 BTUH						AIR CHA	NGES/HR =	8.0
NELTRATION (G			460 BTUH								
SUB TOTAL:			3676 BTUH							2 COM	
SAFETY:	10%		368 BTUH				BASIS: 1	.OAD	FIN	AL CFM =	402
TOTAL TRANS &	INFIL		4044 BTUR					AC BOX SEE			
HEATING LOAD:	EUBCED INT	TDATE	N .			HEATING	SUMMARY	DATA	6-M 9-10	71 - 10	
CATING COAD:			BTUH						TOTAL WINTER	HEATING =	1544
TOLET	/ 50	1 08	3456						WA	TER GPM =	13
KITCHEN	100	1 CB	6912								
GENERAL	0	1.08	0								
STACK	0	1 08	0								
DRYER	0	1.08	0	7.41							
TOTAL		50	10368 BTUF								
SAFETY:	10%		1037 BTUH								
	KIET TO KYPAN	_	11405 BTUH								
TOTAL FORCED	INFIL INATIO	•									

Lilker	Associat	cs						Cool	ing & He	ating Load	Calcula	tions
	ngineers, P C										8 LEONARD	
	of the Amen										NEW Y	ORK, NY
New York, N												
212 695-100	0											
PROJECT		A 18					LIGHTING:	2 W/	SF	DATE: 19-J	an-04	
DIMENSION		FT	×	375.0	FT	1	POWER:	0 W	31	FLOOR #: 3-8		
FLOOR ARE		SF					PEOPLE:	1 PE	OPLE	APT #:	12	
CEILING HT	93	3 FT					RM TEMP:	74 DE				
INTERIOR/P	ERIMETER:	20,222	Р			300 (6)	SA TEMP:	54 DE	G.F	The same of		
			*									
ENVELOPE	EXP	NUM	HT	WTU	NETEE	SOLAR	CLF	SHGF	втин	TRANSMISSION	- 0	втин
	EAP	NOM	nı .	WTH	NETSF	1 30	CLI	Shor	0.0	00.5	9.12	200
WALL	N	0	87	0.0	0	1 12				11.0	0 10	0
GLASS	N	0	7.0	00		0 57	0 82	35	0	150	0 65	0
WALL	Ε	0	87	0.0	57.0	1	200	FRA	200	180	0 10	0
BLASS	E	0	70	0.0		0 57	0 76	216	٥١	18.0	0 10	127
WALL	S	1	87	18 0				***	5047	16.0	0.65	888
ZZASS	S	!	70	12 2	0.000	0.57	0 82	149	5947	18.0	0 10	0
WALL SLASS	w	0	70	0.0		0.57	0.82	215	0	17.0	0.65	ō
NOOF	**	0	00	0.0	0	0 57	0 62	210	٠,	430	0.20	0
KYLIGHT		0	00	00	0	100	0.85	247	0	2	200	0
LOOR		0	00	00	0	100	0.00	-		0	0.00	0
ARTITION		0	00	00	0	1		STOCKET.		0	0 00	0
EILING		o	0.0	0.0	o				1.	0	0 00	0
	AND PERIM	ETERS										
WALL AREA	_	1					SU	B TOTAL=	5947	are referred to the company of the Table	TOTAL=	1015
(SF)	AREA (SF)	0				AND DESCRIPTIONS			EXT	ERNAL LOAD T	OTAL=	6963
70	85	i						727			pla h	-
	on marks					LATENT	LOAD	6.3		SENSIBLE LOAD	10	
TERNAL CO	OOLING LOA	ט	-	CLF		LATENT	LUMU	FACTOR	втин		FACTOR	BTUF
CCUPANTS	1	PEOPLE		1 00				200 0	200	1	250 0	250
IGHTING		WATTS		1 00				1.2			34	2561
QUIPMENT		WATTS		1.00		-		-	-		34	0
ENS HEAT		BTUH		1 00					-		10	0
ATENT HEAT		BTUH	300	1 00		1		1.0	0	L	•	
AICHI HEA		CFM	45.0	GR/LB		_		07	- 01			
			140					H-11-	1.	71159	11	0
ENTILATION		U. III				-	SU	B TOTAL=	200	SUE	TOTAL=	9773
ENTILATION SUTDOOR AIF	3)		ON		- 1	1		SAFETY=	20		SAFETY=	977
ENTILATION OUTDOOR AIR ENT RATE:	3)	CFMPERS	ON									
ENTILATION OUTDOOR AIR ENT RATE:	0		ON		- 1	1	LATE	NT LOAD=	220	SENSIBL	E LOAD=	10750
ENTILATION OUTDOOR AIR ENT RATE:	0	CFMPERS					LATE	NT LOAD=	220	SENSIBL	E LOAD=	1075
ENTILATION OUTDOOR AIR ENT RATE: OOM AIR DELTA T:	200	CFMPERS		of the	0.1	40 months				SENSIBL	E LOAD=	10750
ENTILATION OUTDOOR AIF ENT RATE: COOM AIR DELTA T:	20 0 IGN DATA	CFMPERS		d ma	0.1	Check in		NT LOAD=	ATA	SENSIBLE SEN	AL COM AND FIX	
ENTILATION OUTDOOR AIR ENT RATE: COOM AIR VELTA T: EATING DES RM TEMP:	20 0 IGN DATA	CFMPERS DEG F	11	L RATE:	- 1	CFWSF			ATA	OTAL COOLING	AL COM AND FIX	1097
ENTILATION OUTDOOR AIR ENT RATE; COOM AIR ELTA T; EATING DES RM TEMP; O A TEMP;	20 0 20 0 IGN DATA 70 6	DEG F DEG F DEG F	INF	W 51	010	76-5		SUMMARY D	ATA TO	OTAL COOLING	LOAD=	1097
ENTILATION OUTDOOR AIR ENT RATE: OOM AIR ELTA T: EATING DES RM TEMP:	20 0 20 0 IGN DATA 70 6	CFMPERS DEG F	INF	L RATE:	010	CFWSF	COOLING	SUMMARY D	ATA TO	OTAL COOLING	LOAD= AD CFM = WSQ FT =	1097 49
ENTILATION AUTOOR AIR OUTOOR AIR ENT RATE: COM AIR ELTA T: EATING DES RM TEMP: O A TEMP: DELTA T:	20 0 20 0 1GN DATA 70 6 64	DEG F DEG F DEG F DEG F	INF H	L RATE:	010	CFWSF	COOLING	SUMMARY D	ATA TO	OTAL COOLING	LOAD= AD CFM = WSQ FT = ILATION=	1097 49 1 724
ENTILATION AUTOOR AIF ENT RATE: COM AIR ELTA T: EATING DES RM TEMP: O A TEMP: DELTA T: EATING LOA	20 0 20 0 IGN DATA 70 6 64 D: TRANSMI	DEG F DEG F DEG F DEG F	INF H	L RATE: W DEL T:	010	CFWSF	COOLING LTG&PWR	SUMMARY D	ATA TO	OTAL COOLING LO. CFI INDEX FOR VENT	LOAD= AD CFM = WSQ FT = ILATION= PLY AIR =	1097 49 1 724
ENTILATION OUTDOOR AIR ENT RATE: OOM AIR ELTA T: EATING DES RM TEMP: O A TEMP: DELTA T: EATING LOA	20 0 20 0 IGN DATA 70 6 64 D: TRANSMI	DEG F DEG F DEG F DEG F	INFI HI	L RATE: W DEL T: N	010	CFWSF	COOLING LTG&PWR	SUMMARY D	ATA TO	OTAL COOLING LO. CFI INDEX FOR VENT MIN. CODE SUP	AD CFM = WSQ FT = TLATION= PLY AIR = SIDE AIR =	1097 49 1 724 15
ENTILATION AUTOOR AIR ENT RATE: OOM AIR ELTA T: EATING DES RM TEMP: O A TEMP: DELTA T: EATING LOA	20 0 20 0 IGN DATA 70 6 64 D: TRANSMI +ROOF;	DEG F DEG F DEG F DEG F DEG F DEG F	INFI HI FILTRATIO 451 E	L RATE: W DEL T: N STUH	010	CFWSF	COOLING LTG&PWR	SUMMARY D	ATA TO	DTAL COOLING LO. CFI INDEX FOR VENT MIN. CODE SUP MIN. CODE OUTS	AD CFM = WSQ FT = TLATION= PLY AIR = SIDE AIR =	1097 49 1 724 15
ENTILATION DUITDOOR AIF ENT RATE: ROOM AIR BELTA T: EATING DES RM TEMP: DELTA T: EATING LOALANS (WALL: AINS (GLASS) FILTRATION	20 0 20 0 IGN DATA 70 6 64 D: TRANSMI +ROOF;	DEG F DEG F DEG F DEG F DEG F DEG F	INFI HY FILTRATIO 451 E 3553 E	L RATE: W DEL T: N STUH STUH	010	CFWSF	COOLING LTG&PWR	SUMMARY D	ATA TO	DTAL COOLING LO. CFI INDEX FOR VENT MIN. CODE SUP MIN. CODE OUTS	AD CFM = WSQ FT = TLATION= PLY AIR = SIDE AIR =	1097 49 1 724 15 5
ENTILATION DUITDOOR AIF ENT RATE: OOM AIR ELTA T: EATING DES RM TEMP: DELTA T: EATING LOA TEMP: DELTA T: EATING LOA AINS (WALL AINS (GLASS) FILTRATION B TOTAL:	20 0 20 0 IGN DATA 70 6 64 D: TRANSMI +ROOF;	DEG F DEG F DEG F DEG F DEG F DEG F	INFI HI FILTRATIO 451 E 3553 E 590 E	L RATE: W DEL T: N STUH STUH STUH STUH	010	CFWSF	COOLING LTG&PWR	SUMMARY D	ATA TO	OTAL COOLING CFI INDEX FOR VENT MIN. CODE SUP MIN. CODE OUTS AIR CHAN	AD CFM = WSQ FT = TLATION= PLY AIR = SIDE AIR =	1097 49 1 724 15 5
ENTILATION AUTDOOR AIF ENT RATE: DOM AIR ELTA T: EATING DES RM TEMP: DELTA T: EATING LOA ANS (WALL: ANS (GLASS: ELTRATION B TOTAL: FETY:	20 0 20 0 1GN DATA 70 6 64 D: TRANSMI************************************	DEG F DEG F DEG F DEG F DEG F DEG F	INFI HV FILTRATIO 451 E 3553 E 590 E 4594 E	L RATE: W DEL T: N STUH STUH STUH STUH STUH	010	CFWSF	COOLING LTG&PWR	SUMMARY D	ATA TO	OTAL COOLING CFI INDEX FOR VENT MIN. CODE SUP MIN. CODE OUTS AIR CHAN	LOAD= AD CFM = WSQ FT = WSQ FT = HOW TON= PLY AIR = HOE AIR = GES/HR =	1097 49 1 724 15 5
ENTILATION OUTDOOR AIR ENT RATE: COOM AIR ELTA T: EATING DES RM TEMP: O A TEMP: DELTA T: EATING LOA LANS (WALL LANS (GLASS FILTRATION FETY: FETY:	20 0 20 0 IGN DATA 70 6 64 D: TRANSMI *ROOF! \$-SKYLITE!: (GLASS ARE	CFMPERS DEG F DEG F DEG F DEG F SSION & IN	INF HY FILTRATIO 451 E 3553 E 590 E 4594 E 459 E 5053 E	L RATE: W DEL T: N STUH STUH STUH STUH STUH	010	CFWSF	LTG&PWR SH RATIO TONNAGE	SUMMARY D : 20 W : 0980 : 091	ATA TO	OTAL COOLING CFI INDEX FOR VENT MIN. CODE SUP MIN. CODE OUTS AIR CHAN	LOAD= AD CFM = WSQ FT = WSQ FT = HOW TON= PLY AIR = HOE AIR = GES/HR =	1097 49 1 724 15 5
ENTILATION OUTDOOR AIR OUTDOOR AIR OELTA T: EATING DES RM TEMP: O A TEMP:	20 0 20 0 IGN DATA 70 6 64 D: TRANSMI *ROOF). S-SKYLITE): (GLASS ARE 10% & INIFIL D: FORCED I	DEG F SSION & IN	INF HT 451 E 3553 E 590 E 4594 E 5053 E	L RATE: W DEL T: N STUH STUH STUH STUH STUH	010	CFWSF	LTG&PWR SH RATIO TONNAGE	SUMMARY D	ATA TO	DTAL COOLING LO CFI INDEX FOR VENT MIN. CODE SUP MIN. CODE OUTS AIR CHAN	LOAD= AD CFM = WSQ FT = ILATION= PLY AIR = IDE AIR = GES/HR =	10750 1097 499 11 7244 155 8
ENTILATION DUITDOOR AIF ENT RATE: ROOM AIR BELTA T: EATING DES RM TEMP: DELTA T: EATING LOAL LANS (WALL LANS (GLASS) FILTRATION IB TOTAL: FETY: EATING LOAL LANS (CASS)	20 0 20 0 IGN DATA 70 6 4 D: TRANSMI •ROOF): 5-SKYLITE): (GLASS ARE 10% & INIFIL D: FORCED I CFM	DEG F	INF HITRATIO 451 E 3553 E 590 E 4594 E 5053 E ON	L RATE: W DEL T: N STUH STUH STUH STUH STUH	010	CFWSF	LTG&PWR SH RATIO TONNAGE	SUMMARY D : 20 W : 0980 : 091	ATA TO	DTAL COOLING LO. CFI INDEX FOR VENT MIN. CODE SUP MIN. CODE OUTS AIR CHAN FINA	ALOAD= AD CFM = WSQ FT = ILATION= PLY AIR = GES/HR = IL CFM =	1097 49 1 724 15 5 8
ENTILATION DUITDOOR AIR ENT RATE: ROOM AIR BELTA T: EATING DES RM TEMP: DELTA T: EATING LOAD LANS (WALL LANS (WALL LANS (GLASS) FILTRATION IN TOTAL: FETY: DTAL TRANS	20 0 20 0 20 0 1GN DATA 70 6 64 D: TRANSMI************************************	DEG F	INF HY	L RATE: W DEL T: N STUH STUH STUH STUH STUH	010	CFWSF	LTG&PWR SH RATIO TONNAGE	SUMMARY D : 20 W : 0980 : 091	ATA TO	DTAL COOLING LO. CFI INDEX FOR VENT MIN. CODE SUP MIN. CODE OUTS AIR CHAN FINA	LOAD= AD CFM = WSQ FT = ILATION= PLY AIR = IDE AIR = GES/HR =	1097 49 1 724 15 5 8
ENTILATION OUTDOOR AIR ENT RATE: COOM AIR ELTA T: EATING DES RM TEMP: DELTA T: EATING LOAD LOAD CANS (WALL' LANS (GLASS FILTRATION IS TOTAL: FETY: EATING LOAD LOAD LOAD LOAD LOAD LOAD LOAD LOAD	20 0 20 0 IGN DATA 70 6 64 D: TRANSMI *ROOF! \$*SKYLITE!: (GLASS ARE 10% & INIFIL D: FORCED I CFM 50 50	CFMPERS DEG F DEG F DEG F DEG F DEG F T DEG F DEG F T D D D D D D D D D D D D D D D D D D	INF HY	L RATE: W DEL T: N STUH STUH STUH STUH STUH	010	CFWSF	LTG&PWR SH RATIO TONNAGE	SUMMARY D : 20 W : 0980 : 091	ATA TO	DTAL COOLING LO. CFI INDEX FOR VENT MIN. CODE SUP MIN. CODE OUTS AIR CHAN FINA	ALOAD= AD CFM = WSQ FT = ILATION= PLY AIR = GES/HR = IL CFM =	1097 49 1 724 15 5 8
ENTILATION OUTTOOR AIR ENT RATE: COOM AIR ELTA T: EATING DES RM TEMP: DELTA T: EATING LOAD LANS (WALL LANS (GLASS FILTRATION DE TOTAL: FETY: STAL TRANS LATING LOAD LATING LATING LOAD LATING LATING LOAD LATING LATING LOAD LATING LOAD LATING LATING LATING LOAD LATING LATIN	20 0 20 0 IGN DATA 70 6 44 D: TRANSMI *ROOF! \$-\$KYLITE!: (GLASS ARE 10% & INIFIL D: FORCED I CFM 50 50 0	DEG F SSION & IN	INF HY	L RATE: W DEL T: N STUH STUH STUH STUH STUH	010	CFWSF	LTG&PWR SH RATIO TONNAGE	SUMMARY D : 20 W : 0980 : 091	ATA TO	DTAL COOLING LO. CFI INDEX FOR VENT MIN. CODE SUP MIN. CODE OUTS AIR CHAN FINA	ALOAD= AD CFM = WSQ FT = ILATION= PLY AIR = GES/HR = IL CFM =	1097 49 1 724 15 5 8
ENTILATION DUITDOOR AIF ENT RATE: ROOM AIR BELTA T: EATING DES RM TEMP: DELTA T: EATING LOAL LANS (GLASS FILTRATION IB TOTAL: FETY: DTAL TRANS EATING LOAL LAND LOAD LAND LOAD LOAD LOAD LOAD LOAD LOAD LOAD LOA	20 0 20 0 IGN DATA 70 6 44 D: TRANSMI *ROOF; S-SKYLITE;: (GLASS ARE 10% & INIFIL D: FORCED I 50 50 0 0	DEG F SSION & IN INFILTRATION 1 08 1 00 1 00 1 00	## INFI ## INF	L RATE: W DEL T: N STUH STUH STUH STUH STUH	010	CFWSF	LTG&PWR SH RATIO TONNAGE	SUMMARY D : 20 W : 0980 : 091	ATA TO	DTAL COOLING LO. CFI INDEX FOR VENT MIN. CODE SUP MIN. CODE OUTS AIR CHAN FINA	ALOAD= AD CFM = WSQ FT = ILATION= PLY AIR = GES/HR = IL CFM =	1097 49 1 724 15 5 8
ENTILATION DUITDOOR AIF ENT RATE: ROOM AIR BELTA T: EATING DES RM TEMP: DELTA T: EATING LOAL LANS (GLASS) FILTRATION IB TOTAL: FETY: DIAL TRANS EATING LOAD LET CHEN NERAL ACK YER	20 0 20 0 IGN DATA 70 6 44 D: TRANSMI *ROOF! \$-\$KYLITE!: (GLASS ARE 10% & INIFIL D: FORCED I CFM 50 50 0	DEG F SSION & IN	## FILTRATIO 451 E 3553 E 5590 E 4594 E 5053 E 5055 E 5053 E 5055	L RATE: W DEL T: N STUH STUH STUH STUH STUH STUH STUH STUH	010	CFWSF	LTG&PWR SH RATIO TONNAGE	SUMMARY D : 20 W : 0980 : 091 BASIS: LO	ATA TO	DTAL COOLING LO. CFI INDEX FOR VENT MIN. CODE SUP MIN. CODE OUTS AIR CHAN FINA	ALOAD= AD CFM = WSQ FT = ILATION= PLY AIR = GES/HR = IL CFM =	1097 49 1 724 15 5 8
ENTILATION OUTDOOR AIR ENT RATE: COOM AIR ELTAT: EATING DES RM TEMP: DELTAT: DELTAT: EATING LOALIANS (WALL: AINS (WALL: AINS (GLASS): FEITY: TAL TRANS LET CHEN NERAL ARCK YER	O 20 0 IGN DATA 70 6 64 D: TRANSMI •ROOF). 5•SKYLITE): (GLASS ARE 10% & INIFIL D: FORCED I CFM CO 0 0 0	DEG F SSION & IN INFILTRATION 1 08 1 00 1 00 1 00	INF HY	L RATE: W DEL T: N STUH STUH STUH STUH STUH STUH STUH STUH	010	CFWSF	LTG&PWR SH RATIO TONNAGE	SUMMARY D : 20 W : 0980 : 091 BASIS: LO	ATA TO	DTAL COOLING LO. CFI INDEX FOR VENT MIN. CODE SUP MIN. CODE OUTS AIR CHAN FINA	ALOAD= AD CFM = WSQ FT = ILATION= PLY AIR = GES/HR = IL CFM =	1097 49 1 724 15 5 8
ENTILATION DUITDOOR AIR ENT RATE: ROOM AIR BELTA T: EATING DES RM TEMP: DELTA T: EATING LOAD LANS (WALL LANS	20 0 20 0 IGN DATA 70 6 44 D: TRANSMI *ROOF; S-SKYLITE;: (GLASS ARE 10% & INIFIL D: FORCED I 50 50 0 0	DEG F DEG F DEG F DEG F DEG F DEG F DEG I DEG F DEG I DEG I DEG F DEG I	## FILTRATIO 451 E 3553 E 5590 E 4594 E 5053 E 5055 E 5053 E 5055	L RATE: W DEL T: N TIGH STUH STUH STUH STUH STUH STUH STUH STU	010	CFWSF	LTG&PWR SH RATIO TONNAGE	SUMMARY D : 20 W : 0980 : 091 BASIS: LO	ATA TO	DTAL COOLING LO. CFI INDEX FOR VENT MIN. CODE SUP MIN. CODE OUTS AIR CHAN FINA	ALOAD= AD CFM = WSQ FT = ILATION= PLY AIR = GES/HR = IL CFM =	1097 49 1 724 15 5 8

Consulting Er 1001 Avenue New York, N Y 212 695-1000	ngineers, P of the Ame Y 10018	C.		OI	RIGI	NAL-	-KEE	PINI	∏ €∞	ling & He	ating Load	8 LEONARI	
PROJECT: DIMENSIONS FLOOR AREA CEILING HT:	5: 1 5: 50	0 FT 1 SF 33 FT		x	561 0	FT		LIGHTING: POWER: PEOPLE: RM TEMP:	2 W 0 W 1 P 74 D	EOPLE	DATE: 19-J FLOOR #: 3-8 APT #;	an-04 14	-
INTERIOR/PE	RIMETER:		P		.000	10111		SA TEMP:	54 D				
ENVELOPE D	200.00						SOLAR				TRANSMISSION		
	EXP	NUM	- 3	HT V	VTH.	NETSF	SC	CLF	SHGF	BTUH	CLTD	U	втин
WALL	N		0	8.7	0.0		1.0						
GLASS	N		ŏ	70	00	0	0.57				110	0.10	0
WALL	E		0	87	00	0	001	0 82	35	0	150	0 65	0
GLASS	E		0	70	00	0	0.57	0.76	215	٥	18.0	0.65	0
WALL	S		1	8.7	24 8	82		•	-10	٠,	18.0	0 10	147
GLASS	S		1	70	190	133	0 57	0 82	149	9262	16.0	0 65	1383
WALL GLASS	w		0	87	0.0	0				1000	18.0	0.10	0
ROOF	**		0	7.0	0.0	0	0.57	0 82	216	0	170	0.65	0
SKYLIGHT			0	0.0	0.0	0	b				430	0 20	0
FLOOR			0	00	0.0	0	1 00	0 85	247	0	2	2 00	0
PARTITION			0	00	00	0					0	0 00	0
CEILING			0	00	00	0					0	0 00	. 0
TOTAL AREA	AND PERM	JETERS										- 000	
WALL AREA	GLASS	7						SU	B TOTAL=	9262	SUE	TOTAL=	1530
(SF)	AREA (SE)									ERNAL LOAD		10793
62	133							0.000	-01	-			
INTERNAL CO	OLING LO	AD					LATENT	CAD			SENSIBLE LOAD		
					CLF		CAICAL	LOAD	FACTOR	BTUHI	SENSIBLE LOAD	FACTOR	BTUF
OCCUPANTS	5	PEOP	LE		1 00				200 0	200		250 0	250
LIGHTING	1122	WATT	S		1 00		1					3.4	3831
EQUIPMENT		WATT	s		1 00			and the same of th	•		p	34	0
SENS HEAT LATENT HEAT		BTUH			1 00				•	-	1 1	10	0
LATENT HEAT		BTUH			1 00		1	- 1	10	0		4	
VENTILATION		CFM	_	450 G	R/LB				0.7	01			
OUTDOOR AIR	()	1 10		140 TI	0		harries a					1.1	0
VENT RATE:		CFMP	ERSO	N				SU	B TOTAL=	200	SUE	TOTAL=	14873
ROOM AIR									SAFETY=	20	C 200 P. S	SAFETY=	1487
DELTA T:	20 0	DEG. F	-					LATEN	T LOAD=	220	677.550 CS	E LOAD=	16361
					1 -	6.1	D 601		1500				
HEATING DES	IGN DATA							COOLING	SUMMARY D	ATA			
RM TEMP:	7	DEG F	200		. 64			17-	6. 165	TO	TAL COOLING	LOAD=	1658
OA TEMP:		DEG F		INFIL	RATE:	010	FM/SF				LO	AD CFM =	757
DELTA T:	6	DEG F		HW	DEL T:	20 E	EG F	LTG8PWR	20 W	//SF	CFI	WSQ FT =	1.4
			1101025					SH RATIO:	0.987		INDEX FOR VENT	ILATION=	10844
HEATING LOA		NOISSIN	& INF					TONNAGE	1 38		MIN. CODE SUP	PLY AIR =	224
RANS (WALL				523 B1				11			MIN. CODE OUTS	IDE AIR =	75
TRANS (GLASS				5533 B1	2020.0			de la companyante della compan			AIR CHAN	GES/HR =	8 7
NFILTRATION	(GLASS A	REAL		919 BT							and a state of the second	The last of the second	The second second
UB TOTAL:				6975 B1				1892 100	19.6a V		000000	u nie wasone	1000
SAFETY:	10%	•		698 B7					BASIS: L	OAD	FINA	L CFM =	. 757
OTAL TRANS	8 INIFIL			7673 BT	TUH							THE REAL PROPERTY.	
EATING LOAD	D: FORCE	INFILT	RATIO	N				HEATING	SUMMARY D	ATA			
	CFM	FACTO		атин							TOTAL WINTER H	EATING =	1147
OLET	50	1 1	05	3455	- 1							ER GPM =	1
STCHEN			08	0									
ENERAL		11	08	0	- 1								
TACK		1.	80	0									
RYER		1	80	0	1								
				3456 BT	164								
OTAL				J-00 01	011								
OTAL AFETY: OTAL FORCE	10%			345 BT	UH								

Consulting En 1001 Avenue New York, N Y 212 695-1000	of the Amen		0 (ORIG	INAL-	-KEE	PINI	ILE	oling & He	eating Load	Calcul B LEONARI NEW	ations STREET YORK, NY
PROJECT:							LIGHTING:	2 0	W/SF	DATE: 19-J	*****	
DIMENSIONS	. 10	FT	×	384 0	FT		POWER:	0 V	6.00000	FLOOR #: 3-8		
FLOOR AREA		SF		0010		1	PEOPLE:		EOPLE	APT #:	15	
CEILING HT:		3 FT			- 1	1	RM TEMP:		EG. F	25000	10.70	
INTERIOR/PE	RIMETER:		P				SA TEMP:	54 D	EG. F			
ENVELOPE D	EXP	NUM		Direct .	ATTAIN	SOLAR	717	77.77		TRANSMISSION	(1)	
without	EAF	NOM	нт	WTH	NET SF	SC	CLF	SHGF	BTUH	CLTD	U	BTUR
WALL	N		0 81	0.0	0	8				110	0.10	0
GLASS	N		0 70	0.0	0	0 57	0.82	35	0	150	0.65	0
WALL	E		0 87	00	0	0.67	5.79		- 2	18.0	0 10	0
GLASS	E		0 70			0 57	0 76	216	0	7.0	0 65	0
WALL	5		1 87			5.07	150	4.0		18.0	0 10	92
GLASS	S		1 70		200	0 57	0.82	149	6581	16 0	0.65	983
WALL	w		1 83			1 1	3.57	110	4,547	180	0.10	385
ROOF	**		1 7.0		22	0.57	0.82	216	6360	17.0	0 65	690
SKYLIGHT			0 00		50	1	0.63	247	اء	43.0	2.00	0
FLOOR			0 00			100	0.85	247	٥	2 0	0.00	
PARTITION			0 0.0			1			1		0.00	Č
CEILING			0 00							"	0.00	
OTAL AREA	ND PERIM							at Victoria a				
WALL AREA	GLASS	1					SUE	TOTAL-	12942	SUB	TOTAL=	2156
(SF)	AREA (SF)	1							EXT	ERNAL LOAD T	OTAL=	15098
265	158	1										
		,				Limo				A STATE OF THE STA		7
NTERNAL CO	DLING LOA	D		CLF		LATENT	LOAD	FACTOR	втин	SENSIBLE LOAD	FACTOR	BTU
OCCUPANTS		PEOPLE		100				200 0	200	N	250.0	250
		WATTS		100				2000	200		3.4	2622
		****							77	1	3.4	
		WATTS		1.00					-1		3.4	
QUIPMENT		WATTS		1.00							10	
QUIPMENT SENS HEAT		WATTS BTUH BTUH		1.00 1.00 1.00		-		1.0				
EQUIPMENT SENS HEAT ATENT HEAT	0	BTUH BTUH		1.00				10%				
EQUIPMENT SENS HEAT ATENT HEAT SENTILATION	0	BTUH		1.00 1.00	=			10	0		10	
EQUIPMENT SENS HEAT ATENT HEAT PENTILATION OUTDOOR AIR)	0	BTUH BTUH	14.0	1.00 1.00			elle	07	0.	CHE	10	
EQUIPMENT SENS HEAT ATENT HEAT ENTILATION DUTDOOR AIR) ENT RATE:	0	BTUH BTUH	14.0	1.00 1.00				07 TOTAL=	200		10 11 TOTAL=	17970
EQUIPMENT SENS HEAT ATENT HEAT PENTILATION OUTDOOR AIR) TENT RATE: ROOM AIR	0	BTUH BTUH CFM CFMPEF	14.0	1.00 1.00			5700	TOTAL=	0 200 20		11 TOTAL=	17970 17970
QUIPMENT ENS HEAT ATENT HEAT ENTILATION OUTDOOR AIR) ENT RATE:	0	BTUH BTUH	14.0	1.00 1.00			5700	07 TOTAL=	200		11 TOTAL=	17970 17970
QUIPMENT ENS HEAT ATENT HEAT ENTILATION DUTDOOR AIR) ENT RATE: COOM AIR ELTA T:	0 0 200	BTUH BTUH CFM CFMPEF	14.0	1.00 1.00			LATEN	TOTAL= SAFETY= TLOAD=	200 200 20 220		11 TOTAL=	17970 17970
EQUIPMENT SENS HEAT ATENT HEAT ENTILATION DUTDOOR AIR) ENT RATE: ROOM AIR DELTA T: EATING DESIG	0 0 200 3N DATA	BTUH BTUH CFM CFM/PEF DEG F	14.0	1.00 1.00			LATEN	TOTAL=	200 200 20 220	SENSIBL	11 TOTAL= SAFETY= ELOAD=	17970 17970 1976
QUIPMENT ENS HEAT ATENT HEAT ENTILATION DUTDOOR AIR) ENT RATE: COOM AIR DELTA T: EATING DESK RM TEMP:	0 0 20 0 3N DATA 70	CFM CFMPEF DEG F	14.0 RSON	1.00 1.00 GRAB TD		- STANGE	LATEN	07 TOTAL= SAFETY= IT LOAD=	200 20 220 220	SENSIBLE	11 TOTAL= SAFETY= E LOAD=	17976 17976 1976
EQUIPMENT IENS HEAT ATENT HEAT ENTILATION DUTDOOR AIR) ENT RATE: ROOM AIR DELTA T: EATING DESIG RM TEMP: O A. TEMP:	0 0 200 3N DATA 70 6	BTUH BTUH CFM CFMPEF DEG F DEG F DEG F	14.0 RSON	1.00 100 GRAB TO		FWSF	COOLING S	07 TOTAL= SAFETY= IT LOAD=	200 200 220 220	SENSIBLE	11 TOTAL= SAFETY= ELOAD= LOAD= D CFM =	17976 1797 1976
EQUIPMENT SENS HEAT ATENT HEAT ENTILATION DUTDOOR AIR) ENT RATE: ROOM AIR DELTA T: EATING DESK RM TEMP:	0 0 200 3N DATA 70 6	CFM CFMPEF DEG F	14.0 RSON	1.00 1.00 GRAB TD		FWSF BEG. F	COOLING S	OT STOTAL= SAFETY= IT LOAD= SUMMARY E	200 200 20 220 220	SENSIBLI OTAL COOLING LOA CFM	11 TOTAL= SAFETY= ELOAD= LOAD= UCFM = VSQ FT =	17976 17976 1976 1998
EQUIPMENT SENS HEAT ATENT HEAT ENTILATION DUTDOOR AIR) ENT RATE: ROOM AIR DELTA T: EATING DESK RM TEMP: O A. TEMP: DELTA T:	0 0 200 3N DATA 70 6	BTUH BTUH CFM CFMPEF DEG F DEG F DEG F DEG F	IA D	1.00 1.00 GRUB TO			COOLING S	OT STOTAL= SAFETY= IT LOAD= SUMMARY E	200 200 20 220 220	SENSIBLI STAL COOLING LOA CFM INDEX FOR VENTI	11 TOTAL= SAFETY= ELOAD= LOAD= D CFM = VSQ FT = LATION=	17976 17976 1976 1998 911 22
QUIPMENT ENS HEAT ATENT HEAT ENTILATION OUTDOOR AIR) ENT RATE: ROOM AIR SELTA T: EATING DESK RM TEMP: DELTA T: EATING LOAD	0 0 200 3N DATA 70 6 64 : TRANSMI	BTUH BTUH CFM CFMPEF DEG F DEG F DEG F DEG F	INFILTRATI	1.00 1.00 GRAB TO FIL RATE: HW DEL T:			COOLING S	OT STOTAL= SAFETY= IT LOAD= SUMMARY E	200 200 20 220 220	SENSIBLI OTAL COOLING LOA CFM	10 11 TOTAL= SAFETY= ELOAD= LOAD= D CFM = WSQ FT = LATION= LYAR =	17976 17976 1976 1998 91: 2. 742: 15
EQUIPMENT ENS HEAT ATENT HEAT ENTILATION DUTDOOR AIR) ENT RATE: ROOM AIR DELTA T: EATING DESK RM TEMP: DELTA T; DELTA T; DELTA T; EATING LOAD RANS (WALL+)	0 0 20 0 3N DATA 70 6 64 : TRANSMI	BTUH BTUH CFM CFMPEF DEG F DEG F DEG F DEG F	INFILTRATI	1.00 1 00 GRAB TO FAL RATE: HW DEL T: ON			COOLING S	OT STOTAL= SAFETY= IT LOAD= SUMMARY E	200 200 20 220 220	SENSIBLE OTAL COOLING LOA CFM INDEX FOR VENTIL MIN. CODE SUPP MIN. CODE OUTSI	10 11 TOTAL ELOAD= LOAD= D CFM = VSQ FT = LATION= LATION=	1998 91: 2. 742: 55
EQUIPMENT SENS HEAT ATENT HEAT ENTILATION DUTDOOR AIR) ENT RATE: ROOM AIR SELTA T: EATING DESIG RM TEMP: DELTA T: EATING LOAD RANS (WALL+ RANS (GLASS-	0 0 20 0 GN DATA 70 6 64 : TRANSMI	BTUH BTUH CFM CFMPEF DEG F DEG F DEG F DEG F SSION 8	INFILTRATI	FIL RATE:			COOLING S	OT STOTAL= SAFETY= IT LOAD= SUMMARY E	200 200 20 220 220	SENSIBLE OTAL COOLING LOA CFM INDEX FOR VENTI MIN. CODE SUPP	10 11 TOTAL ELOAD= LOAD= D CFM = VSQ FT = LATION= LATION=	1998 91: 2. 742: 55
EQUIPMENT ENS HEAT ATENT HEAT ENTILATION OUTDOOR AIR) ENT RATE: ROOM AIR FELTA T: EATING DESK RM TEMP: DELTA T: EATING LOAD TANS (WALL+) TANS (GLASS-) FILTRATION (1)	0 0 20 0 GN DATA 70 6 64 : TRANSMI	BTUH BTUH CFM CFMPEF DEG F DEG F DEG F DEG F SSION 8	INFILTRATI 1897 6552 1089	TO T			COOLING S	OT STOTAL= SAFETY= IT LOAD= SUMMARY E	200 200 20 220 220	SENSIBLE OTAL COOLING LOA CFM INDEX FOR VENTIL MIN. CODE SUPP MIN. CODE OUTSI	10 11 TOTAL ELOAD= LOAD= D CFM = VSQ FT = LATION= LATION=	1998 91: 2. 742: 55
EQUIPMENT ENS HEAT ATENT HEAT ENTILATION DUTDOOR AIR) ENT RATE: ROOM AIR DELTA T: EATING DESK RM TEMP: DELTA T: EATING LOAD TANS (WALL+) RANS (GLASS-) FILTRATION (UBSTOTAL)	0 200 SN DATA 70 6 64 : TRANSMI ROOF; PSKYLITE; GLASS ARE	BTUH BTUH CFM CFMPEF DEG F DEG F DEG F DEG F SSION 8	14.0 INFILTRATI 1697 6552 1089 9337	GRAB TO GRAB TO FIL RATE: HW DEL T: ON BTIGH BTUH BTUH			COOLING S LTG&PWR: SH RATIO: TONNAGE:	0 7 B TOTAL = SAFETY= IT LOAD = SUMMARY D 2.0 W 0.969 1.67	0 200 20 220 220 DATA	SENSIBLE STAL COOLING LOA CFM INDEX FOR VENTI MIN. CODE SUPP MIN. CODE OUTS: AIR CHANG	10 11 TOTAL ELOAD= LOAD= D CFM = VSQ FT = LATION= LATION=	1998 1998 91 2. 742 15 5
QUIPMENT ENS HEAT ATENT HEAT ENTILATION DUTDOOR AIR) ENT RATE: COOM AIR ELTA T: EATING DESK RM TEMP: DELTA T: EATING LOAD LANS (WALL+) LANS (GLASS-) FILTRATION (IS TOTAL: LIFETY:	0 0 20 0 SN DATA 70 6 64 : TRANSMI ROOF): SKYLITE): GLASS ARE	BTUH BTUH CFM CFMPEF DEG F DEG F DEG F DEG F SSION 8	14.0 INFILTRATI 1697 6552 1099 9337	FIL RATE: HW DEL T: ON BTUH BTUH BTUH BTUH			COOLING S LTG&PWR: SH RATIO: TONNAGE:	OT STOTAL= SAFETY= IT LOAD= SUMMARY E	0 200 20 220 220 DATA	SENSIBLE STAL COOLING LOA CFM INDEX FOR VENTI MIN. CODE SUPP MIN. CODE OUTS: AIR CHANG	10 11 TOTAL= SAFETY= ELOAD= D. CFM = USQ FT = LATION= LYAR = DE AR = SESHR =	1998 1998 91 2. 742 15 5
QUIPMENT ENS HEAT ATENT HEAT ENTILATION DUTDOOR AIR) ENT RATE: COOM AIR ELTA T: EATING DESK RM TEMP: DELTA T: EATING LOAD LANS (WALL+) LANS (GLASS-) FILTRATION (IS TOTAL: LIFETY:	0 0 20 0 SN DATA 70 6 64 : TRANSMI ROOF): SKYLITE): GLASS ARE	BTUH BTUH CFM CFMPEF DEG F DEG F DEG F DEG F SSION 8	14.0 INFILTRATI 1697 6552 1099 9337	GRAB TO GRAB TO FIL RATE: HW DEL T: ON BTIGH BTUH BTUH			COOLING S LTG&PWR: SH RATIO: TONNAGE:	0 7 B TOTAL = SAFETY= IT LOAD = SUMMARY D 2.0 W 0.969 1.67	0 200 20 220 220 DATA	SENSIBLE STAL COOLING LOA CFM INDEX FOR VENTI MIN. CODE SUPP MIN. CODE OUTS: AIR CHANG	10 11 TOTAL= SAFETY= ELOAD= D. CFM = USQ FT = LATION= LYAR = DE AR = SESHR =	1998 1998 91 2. 742 15 5
EQUIPMENT IENS HEAT ATENT HEAT ENTILATION OUTDOOR AIR) ENT RATE: ROOM AIR ELTA T: EATING DESK RM TEMP: DELTA T: EATING LOAD TANS (WALL+) RANS (GLASS- FILTRATION (U) B TOTAL: UFETY: DTAL TRANS ()	0 0 20 0 20 0 GN DATA 70 6 64 : TRANSMI ROOF; SKYLITE; GLASS ARE 10% E INIFIL	BTUH BTUH CFM CFMPEF DEG F DEG F DEG F DEG F SSION 8	INFILTRATI 1697 6552 1099 9337 934	FIL RATE: HW DEL T: ON BTUH BTUH BTUH BTUH			COOLING S LTG&PWR: SH RATIO: TONNAGE:	0 7 B TOTAL = SAFETY= IT LOAD = SUMMARY D 2.0 W 0.969 1.67	200 200 200 220 220 DATA TO	SENSIBLE STAL COOLING LOA CFM INDEX FOR VENTI MIN. CODE SUPP MIN. CODE DUTSI AIR CHANG	10 11 TOTAL= SAFETY= ELOAD= D CFM = VSQ FT = LATION= LY AR = DESAR =	17976 1797 1976 1998 91 2,742 15 5 15.
EQUIPMENT IENS HEAT ATENT HEAT ENTILATION DUTDOOR AIR) ENT RATE: ROOM AIR DELTA T: EATING DESK RM TEMP: O A. TEMP: DELTA T: EATING LOAD TANS (WALL+) RANS (GLASS-) FILTRATION (I)	0 0 20 0 20 0 GN DATA 70 6 64 : TRANSMI ROOF;: SKYLITE;: GLASS ARE 10% E INIFIL : FORCED I	BTUH BTUH CFM CFMPEF DEG F DEG F DEG F DEG F SSION 8	INFILTRATI 1697 6552 1089 9337 934 10271	FIL RATE: HW DEL T: ON BTUH BTUH BTUH BTUH			COOLING S LTG&PWR: SH RATIO: TONNAGE:	OY STOTAL SAFETY IT LOAD SUMMARY C 2.0 W 0.969 1.67 BASIS: L	200 200 200 220 220 DATA TO	SENSIBLE OTAL COOLING LOA CFM INDEX FOR VENTI MIN. CODE SUPP MIN. CODE OUTSI AIR CHANG	10 11 TOTAL= SAFETY= ELOAD= LOAD= D CFM = VSQ FT = LATION= LY AIR = DE AIR = EESHIR =	17971 17976 1976 1998 91: 2. 742 15: 5 15.
EQUIPMENT ENS HEAT ATENT HEAT ENTILATION DUTDOOR AIR) ENT RATE: COOM AIR DELTA T: EATING DESK RM TEMP: O A. TEMP: DELTA T: EATING LOAD RANS (WALL+) RANS (GLASS-) FILTRATION (F) JE TOTAL: UFETY: DTAL TRANS (A	0 0 20 0 20 0 GN DATA 70 6 64 : TRANSMI ROOF;: SKYLITE;: GLASS ARE 10% E INIFIL : FORCED I	BTUH BTUH CFM CFMPEF DEG F DEG F DEG F DEG F A: NFILTRA	INFILTRATI 1697 6552 1089 9337 934 10271	GRADE TO GRA			COOLING S LTG&PWR: SH RATIO: TONNAGE:	OY STOTAL SAFETY IT LOAD SUMMARY C 2.0 W 0.969 1.67 BASIS: L	200 200 200 220 220 DATA TO	SENSIBLE OTAL COOLING LOA CFM INDEX FOR VENTI MIN. CODE SUPP MIN. CODE OUTSI AIR CHANG	10 11 TOTAL= SAFETY= ELOAD= D CFM = VSQ FT = LATION= LY AR = DESAR =	17971 17976 1976 1998 91: 2. 742 15: 5 15.
EQUIPMENT IENS HEAT ATENT HEAT ENTILATION OUTDOOR AIR) ENT RATE: ROOM AIR ELTA T: EATING DESK RM TEMP: DELTA T: EATING LOAD TANS (WALL+) RANS (GLASS- FILTRATION (U) B TOTAL: UFETY: DTAL TRANS ()	0 0 20 0 20 0 GN DATA 70 6 64 : TRANSMI ROOF): SKYLITE): GLASS ARE 10% E INIFIL : FORCED I CFM	BTUH BTUH CFM CFMPEF DEG F DEG F DEG F SSION & A):	INFILTRATI 1897 6552 1089 9337 934 10271	GRAB TO GRAB TO FIL RATE: HW DEL T: ON BYOH BYUH BYUH BYUH BYUH			COOLING S LTG&PWR: SH RATIO: TONNAGE:	OY STOTAL SAFETY IT LOAD SUMMARY C 2.0 W 0.969 1.67 BASIS: L	200 200 200 220 220 DATA TO	SENSIBLE OTAL COOLING LOA CFM INDEX FOR VENTI MIN. CODE SUPP MIN. CODE OUTSI AIR CHANG	10 11 TOTAL= SAFETY= ELOAD= LOAD= D CFM = VSQ FT = LATION= LY AIR = DE AIR = EESHIR =	17971 17976 1976 1998 91: 2. 742 15: 5 15.
EQUIPMENT ENS HEAT ATENT HEAT ENTILATION DUTDOOR AIR) ENT RATE: COOM AIR DELTA T: DE	0 0 20 0 GN DATA 70 6 64 : TRANSMI ROOF): SSYUITE): GLASS ARE 10% E INIFIL : FORCED I CFM 50	BTUH BTUH CFM CFMPEF DEG F DEG F DEG F DEG F SSION 8 EA):	INFILTRATI 1697 6552 1089 9337 934 10271	GRAB TO GRAB TO FIL RATE: HW DEL T: ON BYOH BYUH BYUH BYUH BYUH			COOLING S LTG&PWR: SH RATIO: TONNAGE:	OY STOTAL SAFETY IT LOAD SUMMARY C 2.0 W 0.969 1.67 BASIS: L	200 200 200 220 220 DATA TO	SENSIBLE OTAL COOLING LOA CFM INDEX FOR VENTI MIN. CODE SUPP MIN. CODE OUTSI AIR CHANG	10 11 TOTAL= SAFETY= ELOAD= LOAD= D CFM = VSQ FT = LATION= LY AIR = DE AIR = EESHIR =	17971 17976 1976 1998 91: 2. 742 15: 5 15.
EQUIPMENT ENS HEAT ATENT HEAT ENTILATION OUTDOOR AIR) ENT RATE: ROOM AIR ELTA T: EATING DESK RM TEMP: DELTA T: EATING LOAD LANS (WALL+) LANS (GLASS-) FALTRATION (U) ETOTAL: LEFETY: EATING LOAD LANS (CLASS-) EATING LOAD LETT CHEN ENERAL	0 0 20 0 0 20 0 64 c TRANSMI ROOF): PSKYLITE): GLASS ARE 10% S INIFIL : FORCED I CFM 50 100	BTUH BTUH CFM CFMPEF DEG F DEG F DEG F DEG F A): NFILTRA FACTOR 1 08 1.08	INFILTRATI 1697 6552 1089 9337 934 10271 TION BTUH 3455 6912	GRAB TO GRAB TO FIL RATE: HW DEL T: ON BYOH BYUH BYUH BYUH BYUH			COOLING S LTG&PWR: SH RATIO: TONNAGE:	OY STOTAL SAFETY IT LOAD SUMMARY C 2.0 W 0.969 1.67 BASIS: L	200 200 200 220 220 DATA TO	SENSIBLE OTAL COOLING LOA CFM INDEX FOR VENTI MIN. CODE SUPP MIN. CODE OUTSI AIR CHANG	10 11 TOTAL= SAFETY= ELOAD= LOAD= D CFM = VSQ FT = LATION= LY ARR = DE ARR = EESHR =	17971 17976 1976 1998 91: 2. 742 15: 5 15.
EQUIPMENT ENS HEAT ATENT HEAT ENTILATION DUTDOOR AIR) ENT RATE: ROOM AIR DELTA T: EATING DESK RM TEMP: DELTA T: EATING LOAD RANS (WALL+) ARTHUR LOAD EATING LOA	O O O O O O O O O O O O O O O O O O O	BTUH BTUH CFM CFM/PEF DEG F DEG F	INFILTRATI 1697 6552 1089 9337 934 10271 TION BYUH 3458 6912 0	GRAB TO GRAB TO FIL RATE: HW DEL T: ON BYOH BYUH BYUH BYUH BYUH			COOLING S LTG&PWR: SH RATIO: TONNAGE:	OY STOTAL SAFETY IT LOAD SUMMARY C 2.0 W 0.969 1.67 BASIS: L	200 200 200 220 220 DATA TO	SENSIBLE OTAL COOLING LOA CFM INDEX FOR VENTI MIN. CODE SUPP MIN. CODE OUTSI AIR CHANG	10 11 TOTAL= SAFETY= ELOAD= LOAD= D CFM = VSQ FT = LATION= LY ARR = DE ARR = EESHR =	17977 17976 1976 1998 91: 2. 742 155 5 15.
EQUIPMENT ENS HEAT ATENT HEAT ENTILATION DUTDOOR AIR) ENT RATE: COOM AIR DELTA T: EATING DESK RM TEMP: O A. TEMP: DELTA T: EATING LOAD RANS (WALL+) RANS (GLASS-) FILTRATION (U JE TOTAL: EATING LOAD	O 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	BTUH BTUH CFM CFMPEF DEG F DEG F DEG F SSION 8 A): NFILTRA FACTOR 1 08 1 08	INFILTRATI 1697 6552 1089 934 10271 TION BTUH 3458 6912 0	FIL RATE: HW DEL T: ON BTGH BTUH BTUH BTUH			COOLING S LTG&PWR: SH RATIO: TONNAGE:	OY STOTAL SAFETY IT LOAD SUMMARY C 2.0 W 0.969 1.67 BASIS: L	200 200 200 220 220 DATA TO	SENSIBLE OTAL COOLING LOA CFM INDEX FOR VENTI MIN. CODE SUPP MIN. CODE OUTSI AIR CHANG	10 11 TOTAL= SAFETY= ELOAD= LOAD= D CFM = VSQ FT = LATION= LY ARR = DE ARR = EESHR =	17970
EQUIPMENT ENS HEAT ATENT HEAT ENTILATION DUTDOOR AIR) ENT RATE: COOM AIR DELTA T: EATING DESK RM TEMP: DELTA T: EATING LOAD TANNS (WALL+) ALTEN TOTAL: UFETY: DITAL TRANS TOTAL THEN TOTAL THEN TOTAL TOT	O 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	BTUH BTUH CFM CFM/PEF DEG F DEG F	INFILTRATI 1697 6552 1089 9337 934 10271 TION BTUH 3455 6912 0 0	GRAB TO GRAB TO FIL RATE: HW DEL T: ON BYOH BYUH BYUH BYUH BYUH			COOLING S LTG&PWR: SH RATIO: TONNAGE:	OY STOTAL SAFETY IT LOAD SUMMARY C 2.0 W 0.969 1.67 BASIS: L	200 200 200 220 220 DATA TO	SENSIBLE OTAL COOLING LOA CFM INDEX FOR VENTI MIN. CODE SUPP MIN. CODE OUTSI AIR CHANG	10 11 TOTAL= SAFETY= ELOAD= LOAD= D CFM = VSQ FT = LATION= LY ARR = DE ARR = EESHR =	17977 17976 1976 1998 91: 2. 742 155 5 15.

Lilker	Assoc	iates	0.5	10:		/BES			oling & H	eating Load		
Consulting I 1001 Avenu New York, P	se of the A	mericas	UH	IGIN	AL-H	KEEP	IN FIL	.E¸				RD STREET V YORK, NY
212 695-10		•										
	100								wer	DATE: 19-	len (V	
PROJEC	8.0				362_28		LIGHTING:	2	W/SF	FLOOR #: 3-8		
DIMENSION		10 FT	×	445.0	FT	II .	POWER: PEOPLE:	-	PEOPLE	APT #:	16	
FLOOR AR		445 SF				П	RM TEMP:	127.5	DEG. F	1		
CEILING H		933 FT	P			П	SA TEMP:		DEG. F			
NIEROR	PERUME	EK										
						SOLAR	- 2			TRANSMISSION		
ENVELOPE	EXP	NUM	нт	WTH	NETSF	SC	CLF	SHGF	втин	CLTD	0	BTUH
				_						11.0	0.10	77
WALL	N		! !		27.47.3	0.57	0.82	35	1145	150	0.65	663
GLASS	N E		1 7	-		""	0.04	_		180	0.10	0
GLASS	E		0 7	T		0 57	0.76	216	0	7.0	0 65	0
WALL	8		0 8	-			- T000000		123	18 0	0 10	0
GLASS	s		0 7	2010	0	0 57	0 82	149	•	160	0 65	433
WALL	w		1 8			25322	222		4240	18.0	0 65	464
GLASS	w		1 7	7.0		0 57	0 82	216	4240	43.0	0.20	0
ROOF			0 0	170		1,00	0.85	247	اه	2	2.00	0
SKYLIGHT			0 0	(T)()		150	0.85	241	1	0	0.00	0
PARTITION				0 00		П			- 1	0	0.00	9
CELING			0 0	770 H		11				0	0.00	0
	EA AND P	ERIMETERS								2121	TOTAL*	1555
WALL ARE		ASS	50				SU	HOTAL-	5385	ERNAL LOAD T		7042
(SF)		A (SF)							EXI	EKRAL LUAD I	J.,,,,	.012
311		12			33							
						LATENT	LOAD			SENSIBLE LOAD		
INTERNAL	COOLING	LOAD		CUF		- CAIENI		FACTOR	BTUH		FACTOR	BTUH
								PACION	BION			200
I COCURATE	TR	1 0504	A.F	100	1	П		200.0	200		250 0	250
OCCUPANT	TS	1 PEOF							-5.5		250 0 3 4	3038
OCCUPANT LIGHTING EQUIPMEN			TS	1 00 1 00 1 00					-5.5		250 0 3 4 3 4	3038
LIGHTING EQUIPMEN SENS HEA	ιτ τ	0 WAT	TS TS	1 00 1 00 1 00				200.0	200		250 0 3 4	3038
LIGHTING EQUIPMEN	ιτ τ	890 WAT	TS TS	1 00 1 00 1 00					-5.5		250 0 3 4 3 4	3038
LIGHTING EQUIPMEN SENS HEAT LATENT HE	IT T EAT	890 WAT 0 WAT BTUH BTUH	15 15 1	1 00 1 00 1 00				200.0	200		250 0 3 4 3 4 1 0	3038
LIGHTING EQUIPMEN SENS HEA LATENT HE	IT T EAT	0 WAT	TS TS 4 4	1 00 1 00 1 00 1 00			A2000	10	0		250 0 34 34 10	3038
LIGHTING EQUIPMEN SENS HEAT LATENT HE	T T EAT ON AIR)	890 WAT 0 WAT BTUH BTUH	TS TS 4 4 4 4 14	1 00 1 00 1 00 1 00 1 00			1000000	200.0 1.0 0.7 B TOTAL=	200 0	Sue	250 0 3 4 3 4 1 0	3038 0 0 0 0 10330
LIGHTING EQUIPMEN SENS HEA' LATENT HE VENTILATE (OUTDOOR	T T EAT ON AIR)	0 WAT 0 WAT BTU- BTU-	TS TS 4 4 4 4 14	1 00 1 00 1 00 1 00 1 00				200.0 1.0 0.7 B TOTAL= SAFETY=	200 0	SUB	250 0 3 4 3 4 1 0 	3038 0 0 0 -
LIGHTING EQUIPMEN SENS HEA LATENT HE VENTILATE (OUTDOOR. VENT RATE	T T EAT ON AIR)	0 WAT 0 WAT BTU- BTU-	15 15 1 1 1 14 PERSON	1 00 1 00 1 00 1 00 1 00				200.0 1.0 0.7 B TOTAL=	200 0	Sue	250 0 3 4 3 4 1 0 	3038 0 0 0 0 10330
LIGHTING ECUIPMEN SENS HEA LATENT HE VENTILATE (OUTDOOR. VENT RATI ROOM AIR	T T EAT ON AIR)	0 WAT BTUI- BTUI- 0 CFM	15 15 1 1 1 14 PERSON	1 00 1 00 1 00 1 00 1 00				200.0 1.0 0.7 B TOTAL= SAFETY=	200 0	SUB	250 0 3 4 3 4 1 0 	3038 0 0 0 -
LIGHTING EQUIPMEN SENS HEAT LATENT HE VENTILATE (OUTDOOR. VENT RATE ROOM AIR DELTA T:	T T EAT ON AIR) E:	0 WAT BTUH BTUH 0 CFM 0 CFM 200 DEG	15 15 1 1 1 14 PERSON	1 00 1 00 1 00 1 00 1 00				10 07 B TOTAL= SAFETY= VT LOAD=	200 	SUB SENSIBLI	250 0 3 4 3 4 1 0 1.1 TOTAL= SAFETY= E LOAD=	9038 0 0 0 10330 1033 11363
LIGHTING ECUIPMEN SENS HEA LATENT HE VENTILATE (OUTDOOR. VENT RATE ROOM AIR	T T EAT ON AIR) E:	0 WAT BTUH BTUH 0 CFM 0 CFM 200 DEG	15 14 14 14 14 14 14 14 14 14 14 14 14 14	1 00 1 00 1 00 1 00 1 00			LATEN	10 07 B TOTAL= SAFETY= VT LOAD=	200 	SUB SENSIBLE	250 0 3 4 3 4 1 0 1.1 TOTAL= SAFETY= E LOAD=	9036 0 0 10330 1033 11363
LIGHTING EQUIPMEN SENS HEAS HEAS HEAS HEAS HEAS HEAS HEAST H	T T T EAT ON AIR) E:	890 WAT 0 WAT BTUI- 0 CFM 0 CFM 200 DEG	15 1 1 45 14 PERSON F	1 00 1 00 1 00 1 00 1 00	: 01	CFMSF	COOLING	2000 10 07 B TOTAL= SAFETY= HT LOAD=	200 	SUB SENSIBLE	290 0 34 34 10 	0 0 0 10330 1033 11363
LIGHTING EQUIPMEN SENS HEA' LATENT HE VENTILATE (OUTDOOR. VENT RATE ROOM AIR DELTA T:	T T T EAT ON AIR) E:	890 WAT 0 WAT 8TUI- 0 CFM 0 CFM 200 DEG	15 15 14 15 14 PERSON F	1 00 1 00 1 00 1 00 1 00 1 00 TO	. 01	CFMGF DEG F	COOLING S	10 07 8 TOTAL= SAFETY= WILOAD=	200 200 200 220 DATA	SUB SENSIBLE DYAL COOLING LOA CFM	290 0 3 4 3 4 1 0 1.1 TOTAL= SAFETY= E LOAD= D CFM = //SQ FT =	0 10330 10330 1033 11363
LIGHTING EQUIPMEN SENS HEAD LATENT HE COUTDOOR. VENT RATE ROOM AIR DELTA T: HEATING D RM TEM DELTA	T T EAT ON AIR) E:	0 CFM 0 CFM 0 CFM 0 CFM 0 CFM 0 DEG ATA 70 DEG. 6 DEG	15 15 14 15 14 PERSON F	1 00 1 00 1 00 1 00 1 00 0 GRAB 0 TD	. 01		COOLING S	200 0 10 07 8 TOTAL= SAFETY= VT LOAD= BUMMARY 0 981	200 200 200 220 DATA	SUB SENSIBLE STAL COOLING LOA CFM NDEX FOR VENTIL	290 0 3 4 3 4 1 0 1.1 TOTAL= SAFETY= E LOAD= D CFM = ISQ FT = LATION=	11583 1288 1030 1033 11363
LIGHTING EQUIPMEN SENS HEAT LATENT HE VENTILATE (OUTDOOR. TROOM AIR DELTA T: HEATING D RM TEM OA TEM DELTA HEATING L	T T EAT ON AIR) E: :: :: :: :: :: :: :: :: :: :: :: ::	0 CFM/ 0 CFM/ 0 CFM/ 0 CFM/ 0 CFM/ 0 CFM/ 0 DEG ATA 70 DEG. 6 DEG 64 DEG.	TS TS 4 4 45 HPERSON F F F F F F F F F F F F F F F F F F F	1 00 1 00 1 00 1 00 1 00 1 00 TO TD	. 01		COOLING S	200 0 10 07 8 TOTAL= SAFETY= VT LOAD= BUMMARY 0 981	200 200 200 220 DATA	SUB SENSIBLE STAL COOLING LOA CFM MDEX FOR VENTE MIN. CODE SUPP	290 0 34 34 10 10 1.1 TOTAL= SAFETY= E LOAD= D CFM = PARTON= LY AR =	11583 1258 1258 1258 126 12 128
LIGHTING EQUIPMEN SENS HEAT LATENT HE VENTILATE (OUTDOOR, TROOM AIR DELTA T: HEATING D RM TEMPORATE OF TEMPO	DESIGN D.	0 CFM 0 CFM 0 CFM 200 DEG ATA 70 DEG. 6 DEG. 64 DEG.	F F F F F F F F F F F F F F F F F F F	1 00 1 00 1 00 1 00 1 00 1 00 0 GRALB 0 TD	. 01		COOLING S	200 0 10 07 8 TOTAL= SAFETY= VT LOAD= BUMMARY 0 981	200 200 200 220 DATA	SUB SENSIBLE SENSIBLE DTAL COOLING LOA CFM INDEX FOR VENTH MIN. CODE SUPP MIN. CODE OUTSE	290 0 34 34 10 11 10 11 1TOTAL= BAFETY= E LOAD= D CFM = ISQ FT = LIATION= LY AR = DE AR =	0 0 10330 1033 11363 11583 526 1 2 8602 178 59
LIGHTING EQUIPMEN SENS HEAT LATENT HE VENTILATE (OUTDOOR. VENT RATE OOM AR DELTA T: HEATING D RM TEM OA TEM DELTA HEATING LITTARS (W/) TRANS (GL.)	DESIGN DO DESIGN DE DESIGN DO DESIGN DE DESIGN DO DESIGN DE DESIGN DO DESIGN DE DESIGN	0 CFM 0 CFM 0 CFM 200 DEG ATA 70 DEG. 6 DEG. 64 DEG. ANSMISSION	F F F F F F F F F F F F F F F F F F F	1 000 1 000	. 01		COOLING S	200 0 10 07 8 TOTAL= SAFETY= VT LOAD= BUMMARY 0 981	200 200 200 220 DATA	SUB SENSIBLE STAL COOLING LOA CFM MDEX FOR VENTE MIN. CODE SUPP	290 0 34 34 10 11 10 11 1TOTAL= BAFETY= E LOAD= D CFM = ISQ FT = LIATION= LY AR = DE AR =	11583 1258 1258 1258 126 12 128
LIGHTING EQUIPMEN SENS HEAD LATENT HE VENTILATE (OUTDOOR VENT RATH ROOM AIR DELTA T: HEATING D RM TEM OA TEM DELTA HEATING UT TRANS (UT) TRANS (UT) ITRANS (UT) ITRANS (UT) ITRANS (UT) ITRANS (UT) ITRANS (UT) ITRANS (UT)	DESIGN DO DESIGN DE DESIGN	0 CFM 0 CFM 0 CFM 200 DEG ATA 70 DEG. 6 DEG. 64 DEG. ANSMISSION	73 TS 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00	. 01		COOLING S	200 0 10 07 8 TOTAL= SAFETY= VT LOAD= BUMMARY 0 981	200 200 200 220 DATA	SUB SENSIBLE SENSIBLE DTAL COOLING LOA CFM INDEX FOR VENTH MIN. CODE SUPP MIN. CODE OUTSE	290 0 34 34 10 11 10 11 1TOTAL= BAFETY= E LOAD= D CFM = ISQ FT = LIATION= LY AR = DE AR =	11583 11363 11363 11363
LIGHTING EQUIPMEN SENS HEAD LATENT HE (OUTDOOR VENT RATE ROOM AIR DELTA T: HEATING DELTA THE DELTA THE TENS (WITTENS (WITTENS COLUMN FLITANT SUB TOTAL SUB TOTAL TOTAL TOTAL THE TENS (WITTENS COLUMN FLITANT SUB TOTAL TOTAL THE TENS (WITTENS COLUMN FLITANT SUB TOTAL THE TENS COLUMN FLITANT THE TENS COLUMN	DESIGN DO DESIGN DE DESIGN	0 CFM 0 CFM 0 CFM 0 CFM 200 DEG ATA 70 DEG. 6 DEG. 64 DEG. ANSMISSION	75 75 4 4 45 45 14 PERSON F F F F F 199 48 2 INFILTRA	1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00	. 01		COOLING S	200 0 10 07 8 TOTAL= SAFETY= VT LOAD= BUMMARY 0 981	200 200 200 220 DATA	SUB SENSIBLE DTAL COOLING LOA MDEX FOR VENTE MIM. CODE SUPP MIM. CODE SUPP AIR CHANG	290 0 34 34 10 11 10 11 1TOTAL= BAFETY= E LOAD= D CFM = ISQ FT = LIATION= LY AR = DE AR =	0 0 10330 1033 11363 11583 526 1 2 8602 178 59
LIGHTING EQUIPMEN SENS HEAT LATENT HE VENTILATE (OUTDOOR. TO NEW TRATE OA TEM DELTAT: HEATING DELTATE OA TEM DELTATE (W/TRANS (M/TRANS (M	DESIGN DO DE DESIGN DO DE	0 CFM/ 0 CFM/ 0 CFM/ 0 CFM/ 20 DEG ATA 70 DEG. 6 DEG. 64 DEG. 44 DEG. 45 AREA):	745 F F F F F F F F 742 743	1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00	. 01		COOLING S	2000 10 07 8 TOTAL= SAFETY= IT LOAD= 8UMMARY 2.0 \ 0.001	200 200 200 220 DATA	SUB SENSIBLE DTAL COOLING LOA MDEX FOR VENTE MIM. CODE SUPP MIM. CODE SUPP AIR CHANG	290 0 34 34 14 10 1.1 TOTAL= SAFETY= ELOAD= LOAD= LOA	11583 11363 11363 11363
LIGHTING EQUIPMEN SENS HEAD LATENT HE (OUTDOOR VENT RATE ROOM AIR DELTA T: HEATING DELTA THE DELTA THE TENS (WITTENS (WITTENS COLUMN FLITANT SUB TOTAL SUB TOTAL TOTAL TOTAL THE TENS (WITTENS COLUMN FLITANT SUB TOTAL TOTAL THE TENS (WITTENS COLUMN FLITANT SUB TOTAL THE TENS COLUMN FLITANT THE TENS COLUMN	DESIGN DO DE DESIGN DO DE	0 CFM/ 0 CFM/ 0 CFM/ 0 CFM/ 20 DEG ATA 70 DEG. 6 DEG. 64 DEG. LITE: SS AREA):	745 F F F F F F F F 742 743	1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00	. 01		COOLING S	2000 10 07 8 TOTAL= SAFETY= IT LOAD= 8UMMARY 2.0 \ 0.001	200 200 200 220 DATA	SUB SENSIBLE DTAL COOLING LOA MDEX FOR VENTE MIM. CODE SUPP MIM. CODE SUPP AIR CHANG	290 0 34 34 14 10 1.1 TOTAL= SAFETY= ELOAD= LOAD= LOA	11583 11363 11363 11363
LIGHTING EQUIPMEN SENS HEAT LATENT HE VENTILATE (OUTDOOR. TO NEW TRATE OA TEM DELTAT: HEATING DELTATE OA TEM DELTATE (W/TRANS (M/TRANS (M	DESIGN D. DESIGN	0 CFM 0 CFM 0 CFM 0 CFM 200 DEG ATA 70 DEG. 6 DEG. 64 DEG. LITE: SS AREA):	F F F 199 488 77 742 818	1 00 1 00 1 00 1 00 1 00 1 00 1 00 1 00	. 01		COOLING S	2000 10 07 SAFETY= IT LOAD= SUMMARY 20 10 0901 097	200 200 200 220 DATA	SUB SENSIBLE OTAL COOLING LOA CFM MIN. CODE SUPP MIN. CODE SUPP MIN. CODE OUTS AIR CHANG	290 0 34 34 10 1.1 TOTAL= SAFETY= E LOAD= D CFM = ISQ FT = LATION= LATION= LATION= LATION= LESHIR = CFM =	11583 11363 11363 11363 11363 11583 12802 178 59 7.8
LIGHTING EQUIPMEN SENS HEAT LATENT HE VENTILATE (OUTDOOR TROOM AIR DELTA T: HEATING D RM TEM DELTA THEATING LITTRANS (W/) TRANS (GL. INFL.TRATI SUB TOTAL TRA	DESIGN DO COLOR TO CO	0 CFM 0 CFM 0 CFM 0 CFM 200 DEG ATA 70 DEG. 6 DEG. 64 DEG. LITE: SS AREA):	74	I 000 1 000 1 000 1 000 1 000 1 000 1 000 1 000 TO	. 01		COOLING S LTG&PWR- SH RATIO: TONNAGE:	2000 10 07 SAFETY= IT LOAD= SUMMARY 20 10 0901 097	200 200 200 220 DATA	SUB SENSIBLE SENSIBLE OTAL COOLING CFM IMDEX FOR VENTE MIN. CODE SUPP MI	290 0 34 34 34 10 1.1 TOTAL= SAFETY= ELOAD= LOAD= LOAD= LOAD= LOAD= LOAD= LOAD= LOAD= LOAD= CFM = SAFETY= ELATION= LY AR = DE AR = ESAIR =	11583 11363 11363 11363 11363 11363 11363 11363 11363 11363
LIGHTING EQUIPMEN SENS HEAT LATENT HE VENTILATE (OUTDOOR TROOM AIR DELTA T: HEATING D RM TEM DELTA THEATING LITTRANS (W/) TRANS (GL. INFL.TRATI SUB TOTAL TRA	DESIGN DO COLOR TO CO	890 WAT 0 WAT 10 WAT 10 CFM 10 CFM 20 DEG 20 DEG ATA 70 DEG. 6 DEG 64 DEG. ANSMISSION FILLITE): 85 AREA): 10% FILLITE RCED INFILLITE M FACT	74	I DO 1 DO	. 01		COOLING S LTG&PWR- SH RATIO: TONNAGE:	2000 10 07 SAFETY= IT LOAD= SUMMARY 20 10 0901 097	200 200 200 220 DATA	SUB SENSIBLE SENSIBLE OTAL COOLING CFM IMDEX FOR VENTE MIN. CODE SUPP MI	290 0 34 34 10 1.1 TOTAL= SAFETY= E LOAD= D CFM = ISQ FT = LATION= LATION= LATION= LATION= LESHIR = CFM =	11583 11363 11363 11363 11363 11583 12802 178 59 7.8
LIGHTING EQUIPMEN SENS HEAT LATENT HE VENTILATE (OUTDOOR, TOUTDOOR, TOUTDOOR	DESIGN DO COLOR TO CO	0 WAT 0 WAT 10 WAT 10 WAT 10 CFM 10 CFM 20 DEG 20 DEG ATA 70 DEG. 6 DEG. 64 DEG. 64 DEG. 10% FIL. 10% FAC. 50 1	F F F 191 461 774 742 744 108 341 108 341 108 341	1 00 1 00 1 00 1 00 1 00 1 00 1 00 0 TD NFIL RATE HW DEL T THON LESS BY UH 12 BY UH 13 BY UH 14 BY UH 15 BY UH 16 BY UH	. 01		COOLING S LTG&PWR- SH RATIO: TONNAGE:	2000 10 07 SAFETY= IT LOAD= SUMMARY 20 10 0901 097	200 200 200 220 DATA	SUB SENSIBLE SENSIBLE OTAL COOLING CFM IMDEX FOR VENTE MIN. CODE SUPP MI	290 0 34 34 34 10 1.1 TOTAL= SAFETY= ELOAD= LOAD= LOAD= LOAD= LOAD= LOAD= LOAD= LOAD= LOAD= CFM = SAFETY= ELATION= LY AR = DE AR = ESAIR =	11583 11363 11363 11363 11363 11363 11363 11363 11363 11363 11363
LIGHTING EQUIPMEN SENS HEAT LATENT HE VENTILATE (OUTDOOR TROOM AIR DELTA T: HEATING D RM TEM DELTA THEATING LITRANS (W) TRANS (GLINELTRATIS SAFETY: TOTAL TRANS TOTAL TRANS (TITAL TRANS LITRANS LIT	DESIGN DO COLOR TO CO	890 WAT 0 WAT 8TUI- 0 CFM 0 CFM 200 DEG ATA 70 DEG. 6 DEG. 64 DEG. AMSMISSIOI FF: LITE: SS AREA): 10% FRCED INFILT SO 1	F F F 199 488 771 742 744 810 108 345 108 345 108	I DO 1 DO	. 01		COOLING S LTG&PWR- SH RATIO: TONNAGE:	2000 10 07 SAFETY= IT LOAD= SUMMARY 20 10 0901 097	200 200 200 220 DATA	SUB SENSIBLE SENSIBLE OTAL COOLING CFM IMDEX FOR VENTE MIN. CODE SUPP MI	290 0 34 34 34 10 1.1 TOTAL= SAFETY= ELOAD= LOAD= LOAD= LOAD= LOAD= LOAD= LOAD= LOAD= LOAD= CFM = SAFETY= ELATION= LY AR = DE AR = ESAIR =	11583 11363 11363 11363 11363 11363 11363 11363 11363 11363 11363
LIGHTING EQUIPMEN SENS HEAT LATENT HE VENTILATE (OUTDOOR. VENT RATE OOM ARR DELTA T: HEATING DELTA T: HEATING LIGHT TRANS (GL. INFLITRATIS (GL. INFLITRATIS GL. INFLITRATIS GL. INFLITRATIS GRAFETY: TOTAL TRANS (TALL TRANS (GL. INFLITRATIS GL. INFLITRAT	DESIGN DO COLOR TO CO	890 WAT 0 WAT 8TUI- 10 CFM 0 CFM 200 DEG ATA 70 DEG. 6 DEG. 64 DEG. ANSMISSION F): LITE): SS AREA): 10% FIL. SO 1 50 1	F F F T T T T T T T T T T T T T T T T T	1 000 1 000	. 01		COOLING S LTG&PWR- SH RATIO: TONNAGE:	2000 10 07 SAFETY= IT LOAD= SUMMARY 20 10 0901 097	200 200 200 220 DATA	SUB SENSIBLE SENSIBLE OTAL COOLING CFM IMDEX FOR VENTE MIN. CODE SUPP MI	290 0 34 34 34 10 1.1 TOTAL= SAFETY= ELOAD= LOAD= LOAD= LOAD= LOAD= LOAD= LOAD= LOAD= LOAD= CFM = SAFETY= ELATION= LY AR = DE AR = ESAIR =	11583 11363 11363 11363 11363 11363 11363 11363 11363 11363 11363
LIGHTING EQUIPMEN SENS HEAT LATENT HE VENTILATE (OUTDOOR VENT RATH ROOM AIR DELTA T: HEATING ID TRANS (WATTEN OA TEM OA TEM DELTA T: HEATING LITRATS (WATTEN SUB TOTAL TRATS (ULITRATS CULITRATS CULITRATS (ULITRATS CULITRATS	DESIGN DO COLOR TO CO	890 WAT 0 WAT 8TUI- 10 CFM 0 CFM 200 DEG ATA 70 DEG. 6 DEG. 64 DEG. ANSMISSION F): LITE): SS AREA): 10% FIL. SO 1 50 1	## ## ## ## ## ## ## ## ## ## ## ## ##	I DO 1 DO	. 01		COOLING S LTG&PWR- SH RATIO: TONNAGE:	2000 10 07 SAFETY= IT LOAD= SUMMARY 20 10 0901 097	200 200 200 220 DATA	SUB SENSIBLE SENSIBLE OTAL COOLING CFM IMDEX FOR VENTE MIN. CODE SUPP MI	290 0 34 34 34 10 1.1 TOTAL= SAFETY= ELOAD= LOAD= LOAD= LOAD= LOAD= LOAD= LOAD= LOAD= LOAD= CFM = SAFETY= ELATION= LY AR = DE AR = ESAIR =	11583 11363 11363 11363 11363 11363 11363 11363 11363 11363 11363
LIGHTING EQUIPMEN SENS HEAT LATENT HE VENTILATE (OUTDOOR. TO A TEMPORATE OF A TEMPORATE STATE OF A TEMPORATE OF A TEMPORATE OF A TEMPORATE STATE OF A TEMPOR	DESIGN DO COLOR TO CO	O CFM O DEG O DEG ATA TO DEG O DEG ATA TO DEG O DEG ATA TO DEG O D	F F F 199 466 774 518 108 345 108 345 108 591	I DO 1 DO	. 01		COOLING S LTG&PWR- SH RATIO: TONNAGE:	2000 10 07 SAFETY= IT LOAD= SUMMARY 20 10 0901 097	200 200 200 220 DATA	SUB SENSIBLE SENSIBLE OTAL COOLING CFM IMDEX FOR VENTE MIN. CODE SUPP MI	290 0 34 34 34 10 1.1 TOTAL= SAFETY= ELOAD= LOAD= LOAD= LOAD= LOAD= LOAD= LOAD= LOAD= LOAD= CFM = SAFETY= ELATION= LY AR = DE AR = ESARR =	11583 1236 1033 11363 11363 11363 11583 526 12 8602 178 59 7.6
LIGHTING EQUIPMEN SENS HEAT LATENT HE VENTILATE (OUTDOOR VENT RATH ROOM AIR DELTA T: HEATING ID TRANS (WATTEN OA TEM OA TEM DELTA T: HEATING LITRATS (WATTEN SUB TOTAL TRATS (ULITRATS CULITRATS CULITRATS (ULITRATS CULITRATS	DESIGN D.	890 WAT 0 WAT 10 WAT 10 CFM 10 CFM 20 DEG 20 DEG 4 DEG 6 DEG 64 DEG 64 DEG 10% FIL 10% FRCED INFIL 10% 10% 10%	F F F 199 46: 77: 74: 77: 78: 108 34: 108 108 108 108 108 108 108 108 108 108	I DO 1 DO	. 01		COOLING S LTG&PWR- SH RATIO: TONNAGE:	2000 10 07 SAFETY= IT LOAD= SUMMARY 2.0 () 0.901 0.97	200 200 200 220 DATA	SUB SENSIBLE SENSIBLE OTAL COOLING CFM IMDEX FOR VENTE MIN. CODE SUPP MI	290 0 34 34 34 10 1.1 TOTAL= SAFETY= ELOAD= LOAD= LOAD= LOAD= LOAD= LOAD= LOAD= LOAD= LOAD= CFM = SAFETY= ELATION= LY AR = DE AR = ESARR =	11583 526 12 8602 178 526

Consulting E 1001 Avenue New York, N 212 695-1000	Y 10018	C	_[DRIC	SINA	L-KE	EPI	N FILE	Coo	ling & He	eating Load	8 LEONARD	ations street ork, ny
PROJECT: DIMENSIONS FLOOR ARE/ CEILING HT: INTERIOR/PE	S: 1 A: 61 9:	0 FT 5 SF 33 FT	,	×	615.0) FT		POWER: PEOPLE: RM TEMP: S.A. TEMP:	2 W 0 W 1 P 74 D 54 D	EOPLE EG.F	DATE: 19-J FLOOR #: 3-8 APT #:	an-04 17	
-	11 Y						905.85				of all the		
ENVELOPE D	EXP			-		LETTLE	SOLAR	77.7	20,77	67	TRANSMISSION		
	EXP	NUM		нт	WTH	NETSF	SC	CLF	SHGF	втин	CLTD	U	втин
WALL	N		1	87	23 0	52	1.0			10.73	110	0 10	57
GLASS	N		1	70	21 0		0 57	0 82	35	2405	150	0 65	1433
WALL	E		1	87	60		1 50	0.00	27.5		18 0	0 10	18
GLASS WALL	E		1	70	60		0 57	0 76	216	3930	70	0 65	191
GLASS	S		0	70	00	- 1		200	183		18 0	0.10	0
WALL	w		0	87	00		0 57	0 82	149	٥	16.0	0 65	0
GLASS	w		0	70	00		0 57	0.00			18.0	0 10	0
ROOF			o	00	00		05/	0 82	216	0	17 0 43 0	0 65	0
SKYLIGHT			o	00	00		100	0.85	247	٥	430	2.00	0
FLOOR			0	00	0.0	0.70	'00	0 03		۰	6	0.00	ő
PARTITION			0	00	0.0						0	0.00	o
CEILING			0	00	0.0						0	000	0
OTAL AREA	AND PERIM	ETERS							111111				
WALL AREA	GLASS	1					100000	SU	TOTAL=	6335		TOTAL=	1700
(SF)	AREA (SF)									EXT	ERNAL LOAD T	OTAL=	8034
CCUPANTS IGHTING QUIPMENT ENS HEAT	1230	WATTS WATTS BTUH	3		1 00 1 00 1 00 1 00				FACTOR 200 0	200		250.0 3.4 3.4 1.0	250 4199 0
ATENT HEAT		BTUH			100		-		1.0	o			
			_				_						_
ENTILATION		CFM		450 (0.7	0			
OUTDOOR AIR)				14 0 T	D			200			1	11	
ENT RATE:	0	CFMPE	RSON	1					TOTAL=	200		TOTAL=	12484
OOM AIR									SAFETY=	20		SAFETY=	1248
ELTA T:	20 0	DEG F						LATEN	TLOAD=	220	SENSIBL	E LOAD*	13732
EATING DESIG	SN DATA					-		COOLING	SUMMARY D.	ATA			
	70	DEG F						A 15 - 15 - 15 - 15 - 15 - 15 - 15 - 15			TAL COOLING	LOAD=	1395
RM TEMP:	7-122	DEG. F		10000	L. RATE:		FWSF			16		D CFM =	63
O A TEMP:				ни	V DEL T:	20 DE	EG.F	LTG&PWR:	2.0 W			ISQ FT =	1
		DEG F						SH RATIO:	0 984		INDEX FOR VENTI		1188
O A TEMP: DELTA T:	64	DEG F	MER	TRATICA				TONNIAGE.	1 10			LT AIR =	24
O A TEMP: DELTA T:	: TRANSMI	DEG F	INFIL					TONNAGE:	1.16		MIN. CODE SUPP	DE AIR -	
O A TEMP: DELTA T: ATING LOAD ANS (WALL+)	: TRANSMI	DEG F	INFIL	398 B	TUH			TONNAGE:	1.16		MIN. CODE OUTSI		
O A TEMP: DELTA T: ATTING LOAD ANS (WALL+) ANS (GLASS-	: TRANSMI: ROOF): SKYLITE):	DEG F	INFIL	398 B 7862 B	TUH TUH			TONNAGE:	1.16				
O A TEMP: DELTA T: EATING LOAD ANS (WALL+) ANS (GLASS- FILTRATION (G	: TRANSMI: ROOF): SKYLITE):	DEG F	INFIL	398 B 7862 B 1306 B	TUH TUH TUH			TONNAGE:	1.16		MIN. CODE OUTSI		
O A TEMP: DELTA T: EATING LOAD ANS (WALL+) ANS (GLASS- FILTRATION (O B TOTAL:	; TRANSMI: ROOF): +SKYLITE): GLASS ARE	DEG F	INFIL	398 B 7862 B 1306 B 9566 B	TUH TUH TUH TUH			TONNAGE:			MIN. CODE OUTSI AIR CHANG	SES/HR =	6
O A TEMP: DELTA T: ATING LOAD ANS (WALL+) ANS (GLASS-) FILTRATION (CONTROL OF TOTAL: FETY:	: TRANSMI: ROOF): +SKYLITE): GLASS ARE	DEG F	INFIL	398 B 7862 B 1306 B 9566 B	TUH TUH TUH TUH TUH			TONNAGE:	1.16 BASIS: LC		MIN. CODE OUTSI AIR CHANG		6
O A TEMP: DELTA T: ATING LOAD ANS (WALL+) ANS (GLASS-) FILTRATION (CONTROL OF TOTAL: FETY:	: TRANSMI: ROOF): +SKYLITE): GLASS ARE	DEG F	INFIL	398 B 7862 B 1306 B 9566 B	TUH TUH TUH TUH TUH			TONNAGE:			MIN. CODE OUTSI AIR CHANG	SES/HR =	6
O A TEMP: DELTA T: EATING LOAD ANS (WALL+) ANS (GLASS-) IL TRATION (C) B TOTAL: FETY: TAL TRANS &	: TRANSMII ROOF): +SKYLITE): GLASS ARE 10% 5 INIFIL.	DEG F SSION &		398 B 7862 B 1306 B 9566 B 957 B 10523 B	TUH TUH TUH TUH TUH				BASIS: LO)AD	MIN. CODE OUTSI AIR CHANG	SES/HR =	636
O A TEMP: DELTA T: EATING LOAD ANS (WALL+) ANS (GLASS-) IL TRATION (C) B TOTAL: FETY: TAL TRANS &	: TRANSMII ROOF): +SKYLITE): GLASS ARE 10% 5 INIFIL.	DEG F SSION &	ATION	398 B 7862 B 1306 B 9566 B 957 B 10523 B	TUH TUH TUH TUH TUH					DAD ATA	MIN. CODE OUTSI AIR CHANG	CFM =	630
O A TEMP: DELTA T: ATING LOAD ANS (WALL++ ANS (GLASS-+ FILTRATION (C B TOTAL: FETY: TAL TRANS & ATING LOAD:	: TRANSMII ROOF): +SKYLITE): GLASS ARE 10% 5 INIFIL.	DEG F SSION &	ATION	398 8 7862 8 1306 8 9566 8 957 8 10523 8	TUH TUH TUH TUH TUH				BASIS: LO	DAD ATA	MIN. CODE OUTSI AIR CHANG FINAL	CFM =	63
O A TEMP: DELTA T: EATING LOAD ANS (WALL++ ANS (GLASS- FILTRATION (B TOTAL: FETY: TAL TRANS & ATING LOAD: LET	: TRANSMI: ROOF): +SKYLITE): GLASS ARE 10% 5 INIFILFORCED III	DEG F SSION &	ATION B	398 B 7862 B 1306 B 9566 B 957 B 10523 B	TUH TUH TUH TUH TUH				BASIS: LO	DAD ATA	MIN. CODE OUTSI AIR CHANG FINAL	CFM =	63
O A TEMP: DELTA T: EATING LOAD ANS (WALL+ ANS (GLASS- FILTRATION (B TOTAL: FETY: TAL TRANS ? ATING LOAD: LET CHEN	: TRANSMI: ROOF): PSKYLITE): GLASS ARE 10% S INIFIL. FORCED II	DEG F SSION & A): NFILTRA FACTOR 1 08	ATION B	398 B 7862 B 1306 B 9566 B 957 B 10523 B TUH 3456	TUH TUH TUH TUH TUH				BASIS: LO	DAD ATA	MIN. CODE OUTSI AIR CHANG FINAL	CFM =	630
O A TEMP: DELTA T: EATING LOAD ANS (WALL++ ANS (GLASS-+ IL TRATION (G B TOTAL: FETY: TAL TRANS & ATING LOAD: LET CHEN NERAL	: TRANSMI: ROOF): +SKYLITE): GLASS ARE 10% 5 INIFIL. FORCED II CFM 50 0	SSION &	ATION B	398 B 7862 B 1306 B 9566 B 957 B 10523 B TUH 3456 0	TUH TUH TUH TUH TUH				BASIS: LO	DAD ATA	MIN. CODE OUTSI AIR CHANG FINAL	CFM =	630
O A TEMP: DELTA T: EATING LOAD ANS (WALL ## ANS (GLASS- "IL TRATION (C B TOTAL: FETY: TAL TRANS. & ATING LOAD: LET CHEN NERAL LCK	: TRANSMI: ROOF): -SKYLITE): GLASS ARE 10% S INIFILFORCED II 50 0	SSION &	ATION B	398 B 7862 B 1306 B 9566 B 957 B 10523 B TUH 3456 0	TUH TUH TUH TUH TUH				BASIS: LO	DAD ATA	MIN. CODE OUTSI AIR CHANG FINAL	CFM =	630
O A TEMP: DELTA T: CATING LOAD ANS (WALL+) ANS (GLASS-) ILTRATION (C B TOTAL: FETY: TAL TRANS C ATING LOAD: LET CHEN NERAL LCK CER	: TRANSMI: ROOF): SKYLITE): GLASS ARE 10% SINIFIL FORCED II CFM 0 0	SSION &	ATION B	398 B 7862 B 1306 B 9566 B 957 B 10523 B 104523 B 10523 B 10523 B	TUH TUH TUH TUH TUH				BASIS: LO	DAD ATA	MIN. CODE OUTSI AIR CHANG FINAL	CFM =	630
OA TEMP:	: TRANSMI: ROOF): SKYLITE): GLASS ARE 10% SINIFIL FORCED II CFM 0 0	SSION &	ATION B	398 B 7862 B 1306 B 9566 B 957 B 10523 B 104523 B 10523 B 10523 B	TUH TUH TUH TUH TUH TUH				BASIS: LO	DAD ATA	MIN. CODE OUTSI AIR CHANG FINAL	CFM =	6

Consulting E	of the Amer	2.	ORIO	GINA	L-KE	EP II	N FILE	Coo	ling & He	ating Load	88 LEONAR	ations o stree york, w
PROJECT: DIMENSION: FLOOR ARE CEILING HT: INTERIOR/PI	S: 10 A: 34: 9.3	FT SF 3 FT	X	341	0 FT	Les	POWER: PEOPLE: RM TEMP: S.A. TEMP:	1000	EOPLE EG. F	DATE: 19- FLOOR #: 3-8 APT #:		
ENVELOPE (11			SOLAR				TRANSMISSION		126
1.3	EXP	NUM	HT.	WTH	NETSF	SC	CLF	SHGF	BTUH	CLTD	U	BTU
WALL	N		1 87	161	75	3.72		2.40	12	11.0	0.10	8
GLASS	N		1 70			0.57	0 82	35	1145	15.0	0.65	68
WALL	E	9	0 87	01		1 40	12.40	1.60		18.0	0 10	-
GLASS	E		0 70	10.00		0 57	0 76	216	0	7.0	0 65	- 3
WALL	5		0 87			2000	4			18 0	0 10	
GLASS	S		0 70		CC 110 W	0 57	0 82	149	٥	16 0	0 65	
WALL	w		0 87			1.0	220000	(0)01000	- 11	18.0	0.10	
CLASS	w	(0 57	0.82	216	0	17.0	0.65	
ROOF		9				35265			.11	43.0	0 20	-
KYLIGHT		9	7 7.7			1.00	0.85	247	•	2	0.00	
FLOOR		9		0.77.17					955	0	0.00	
EILING			707			1			1,275		0.00	
OTAL AREA	AND PERIL		0.0	0.0	0						0.00	
WALL AREA (SF)	GLASS AREA (SF)					19 71	SUE	TOTAL=	1145 EXTE	SUI RNAL LOAD	TOTAL=	76 191
IGHTING QUIPMENT ENS HEAT ATENT HEAT	0	WATTS WATTS BTUH BTUH	577	1 00 1 00 1 00 1 00				1.0			3.4 1.0	232
NIENI NEXI			450	GR/LB			45136	0.7	0		•	78
	0	CFM		TD	-				- 11		1.1	
ENTILATION		CFM	140	10				TOTAL=	200	6110	TOTAL=	448
ENTILATION OUTDOOR AIR ENT RATE:)	CFM CFMPER	140	10	- 1							
ENTILATION OUTDOOR AIR ENT RATE: OOM AIR	0	CFMPER	140	10				SAFETY=	20		SAFETY=	
ENTILATION OUTDOOR AIR ENT RATE: OOM AIR	0		140						20 220			
ENTILATION OUTDOOR AIR ENT RATE: OOM AIR ELTA T:	0 200 GN DATA	CFWPER	140				LATEN	SAFETY=	220 E	SENSIBL	SAFETY= .E LOAD=	493
ENTILATION OUTDOOR AIR ENT RATE: OOM AIR ELTA T: EATING DESI	0 200 GN DATA	CFMPER DEG F	14 D	10	111		LATEN	SAFETY= TLOAD=	220 E	SENSIBLE AL COOLING	SAFETY= .E LOAD=	51:
ENTILATION UTDOOR AIR ENT RATE: OOM AIR ELTA T: EATING DESIRATEMP: OA. TEMP;	0 200 GN DATA 70 (DEG F	14 0 SON	FIL RATE:	100000	FWSF	LATEN COOLING 8	SAFETY= TLOAD=	220 C	SENSIBLE AL COOLING	SAFETY= .E LOAD= LOAD= AD CFM =	515 22
ENTILATION UTDOOR AIR ENT RATE: OOM AIR ELTA T: EATING DESI	0 200 GN DATA 70 (CFMPER DEG F	14 0 SON	10	100000	FWSF EG F	COOLING 8	SAFETY= TLOAD= SUMMARY DA	ATA TOT	SENSIBLE AL COOLING LO/	SAFETY= .E LOAD= LOAD= AD CFM = A/SQ FT =	515 22 0
ENTILATION UTDOR AIR ENT RATE: OOM AIR ELTA T: EATING DESI RM TEMP: DOA. TEMP: DELTA T:	20 0 20 0 GN DATA 70 1 61 64 1	DEG F DEG F DEG F DEG F	SON INI	FIL RATE: W DEL T:	100000		COOLING 8	SAFETY= TLOAD=	ATA TOT	SENSIBLE AL COOLING LOV CFI IDEX FOR VENT	SAFETY= LE LOAD= LOAD= AD CFM = A/SQ FT = ILATION=	513 22 0 659
ENTILATION UTDOOR AIR ENT RATE: OOM AIR ELTA T: EATING DESI RM TEMP: OA TEMP: DELTA T: ATING LOAD	0 200 GN DATA 70 61 64 I	DEG F DEG F DEG F DEG F	INI INI	FIL RATE: W DEL T:	100000		COOLING 8	SAFETY= TLOAD= SUMMARY DA	ATA TOT	SENSIBLE AL COOLING LOG CFR IDEX FOR VENT MIN. CODE SUPI	SAFETY= LE LOAD= LOAD= AD CFM = A/SQ FT = ILATION= PLY AIR =	513 22 0 659
ENTILATION UUTDOOR AIR UUTDOOR AIR ENT RATE: OOM AIR ELTA T: EATING DESI RM TEMP: OA. TEMP; DELTA T: ATING LOAD ANS (WALL+	20 0 20 0 GN DATA 70 0 6 1 64 1 0: TRANSMIS ROOF):	DEG F DEG F DEG F DEG F	INI	FIL RATE: NV DEL T: DN BTUH	100000		COOLING 8	SAFETY= TLOAD= SUMMARY DA	ATA TOT	SENSIBLE AL COOLING LOV CPI IDEX FOR VENT MIN. CODE SUPI IN. CODE OUTS	SAFETY= E LOAD= LOAD= AD CFM = A/SQ FT = ILATION= PLY A/R = IDE A/R =	513 22 0 659
ENTILATION UTDOOR AIR ENT RATE: OOM AIR ELTA T: EATING DESI RM TEMP: OA. TEMP: DELTA T: ATING LOAD ANS (WALL+ ANS (GLASS	GN DATA 70 6 64 7: TRANSMIS ROOF): +SKYLITE):	DEG F	INI NFILTRATIC 483 2912	FIL RATE:	100000		COOLING 8	SAFETY= TLOAD= SUMMARY DA	ATA TOT	SENSIBLE AL COOLING LOG CFR IDEX FOR VENT MIN. CODE SUPI	SAFETY= E LOAD= LOAD= AD CFM = A/SQ FT = ILATION= PLY A/R = IDE A/R =	513 22 0 659
ENTILATION UTDOOR AIR ENT RATE: OOM AIR ELTA T: EATING DESN RM TEMP: OA. TEMP: DELTA T: ATING LOAD ANS (WALL+ ANS (GLASS	GN DATA 70 6 64 7: TRANSMIS ROOF): +SKYLITE):	DEG F	14 0 SON INI	FIL. RATE: IW DEL T: DN BTUH BTUH BTUH BTUH	100000		COOLING 8	SAFETY= TLOAD= SUMMARY DA	ATA TOT	SENSIBLE AL COOLING LOV CPI IDEX FOR VENT MIN. CODE SUPI IN. CODE OUTS	SAFETY= E LOAD= LOAD= AD CFM = A/SQ FT = ILATION= PLY A/R = IDE A/R =	513 22 0 659
ENTILATION UTDOOR AIR UTDOOR AIR ENT RATE: OOM AIR ELTA T: EATING DESI RM TEMP: OOA TEMP: DELTA T: ATING LOAD ANS (WALL+ ANS (GLASS ILTRATION (20 0 GN DATA 70 61 64 10: TRANSMIS ROOF): ROSCYLITE'S GLASS ARE	DEG F	14 0 SON INI	FIL. RATE: IW DEL T: ON BTUH BTUH BTUH BTUH BTUH BTUH	100000		LATEN COOLING S LTG&PWR: SH RATIO: TONNAGE:	LUMMARY DA 2 0 WA 0.957 0.43	TOT	SENSIBLE AL COOLING LOV CFINITE IDEX FOR VENT MIN. CODE SUPT IN. CODE OUTS AIR CHANGE	LOAD= AD CFM = A/SQ FT = ILATION= PLY AIR = IDE AIR = GESAIR =	513 22 0 655 13
ENTILATION UTDOOR AIR ENT RATE: DOM AIR ELTA T: ATING DESI RM TEMP: DA. TEMP: DELTA T: ATING LOAD ANS (WALL+ ANS (GLASS ILTRATION (ILTRATION (ILTRATION)) ETTY:	20 0 GN DATA 70 6 64 0: TRANSMIS ROOF): +SKYLITE): GLASS ARE	DEG F	14 0 SON INI :	FIL RATE: NW DEL T: NN BTUH BTUH BTUH BTUH BTUH BTUH BTUH	100000		LATEN COOLING S LTG&PWR: SH RATIO: TONNAGE:	LUMMARY DA 2 0 WA 0.957 0.43	ATA TOT	SENSIBLE AL COOLING LOV CFINITE IDEX FOR VENT MIN. CODE SUPT IN. CODE OUTS AIR CHANGE	SAFETY= E LOAD= LOAD= AD CFM = A/SQ FT = ILATION= PLY A/R = IDE A/R =	513 22 0 655 13
ENTILATION UUTDOOR AIR ENT RATE: OOM AIR ELTA T: EATING DESI RM TEMP: OA. TEMP: DELTA T: EATING LOAD ANS (WALL+ ANS (GLASS "L. TRATION (B TOTAL: FETY: TAL TRANS	20 0 20 0 GN DATA 70 0 61 64 1 5: TRANSMIS ROOF): +SKYLITE): GLASS ARE 10% E INIFIL	CFMPER DEG F DEG F DEG F DEG F DEG F DEG F DEG A	14 0 SON INI	FIL RATE: NW DEL T: NN BTUH BTUH BTUH BTUH BTUH BTUH BTUH	100000		LATEN COOLING S LTGSPWR: SH RATIO: TONNAGE:	SAFETY= T LOAD= CUMMARY DA 2 0 W/ 0.957 0.43 BASIS: SO	TOT SF IN WARE FOOT	SENSIBLE AL COOLING LOV CFINITE IDEX FOR VENT MIN. CODE SUPT IN. CODE OUTS AIR CHANGE	LOAD= AD CFM = A/SQ FT = ILATION= PLY AIR = IDE AIR = GESAIR =	515 22 0 659 13
ENTILATION DUTDOOR AIR ENT RATE: OOM AIR ELTA T: EATING DESIRM TEMP: OA. TEMP;	O 20 0 GN DATA 70 64 65 70 65 64 70 64 70 65 64 70 65 66 70 66 67 68 68 70 68 68 68 68 68 68 68 68	CFMPER DEG F	INI INI INFILTRATIC 483 2912 484 3379 388 4267	FIL RATE: NW DEL T: NN BTUH BTUH BTUH BTUH BTUH BTUH BTUH	100000		LATEN COOLING S LTG&PWR: SH RATIO: TONNAGE:	SAFETY= T LOAD= CUMMARY DA 2 0 W/ 0.957 0.43 BASIS: SO	ZZO LATA TOT SF IN	SENSIBLE AL COOLING LOA CFE IDEX FOR VENT MIN. CODE SUPI IN. CODE OUTS AIR CHAN	SAFETY= ELOAD= LOAD= AD CFM = AISQ FT = ILATION= PLY AIR = IDE AIR = GESAIR =	513 22 0 059 13 4 5
ENTILATION UTDOOR AIR UTDOOR AIR ENT RATE: OOM AIR ELTA T: EATING DESN RM TEMP: DELTA T: ATING LOAD ANS (WALL+ ANS (GLASS ELTRATION (B TOTAL: FETY: TAL TRANS	20 0 GN DATA 70 64 64 70 70 70 70 70 70 70 70	CFMPER DEG F	INI INFILTRATIC 484 3879 388 4267	FIL RATE: NW DEL T: NN BTUH BTUH BTUH BTUH BTUH BTUH BTUH	100000		LATEN COOLING S LTGSPWR: SH RATIO: TONNAGE:	SAFETY= T LOAD= CUMMARY DA 2 0 W/ 0.957 0.43 BASIS: SO	ZZO LATA TOT SF IN	SENSIBLE AL COOLING LOW CFINITE IDEX FOR VENT IN. CODE SUPPI IN. CODE OUTS AIR CHAN	LOAD= AD CFM = A/SQ FT = ILATION= PLY AIR = IDE AIR = GES/AIR =	513 22 0 055 13 4 5
ENTILATION UITDOOR AIR ENT RATE: OOM AIR ELTA T: EATING DESI RM TEMP: OA. TEMP: DELTA T: ATING LOAD ANS (WALL+ ANS (GLASS ELTRATION (ELTATION (ELTATION) TAL TRANS	O 20 0 GN DATA 70 61 64 10: TRANSMIS ROOF): +SKYLITE): GLASS ARE 10% & INIFIL : FORCED II	CFMPER DEG F	14 0 SON INI	FIL RATE: NW DEL T: NN BTUH BTUH BTUH BTUH BTUH BTUH BTUH	100000		LATEN COOLING S LTGSPWR: SH RATIO: TONNAGE:	SAFETY= T LOAD= CUMMARY DA 2 0 W/ 0.957 0.43 BASIS: SO	ZZO LATA TOT SF IN	SENSIBLE AL COOLING LOW CFINITE IDEX FOR VENT IN. CODE SUPPI IN. CODE OUTS AIR CHAN	SAFETY= ELOAD= LOAD= AD CFM = AISQ FT = ILATION= PLY AIR = IDE AIR = GESAIR =	511 22 0 655 11 5
ENTILATION ULTDOOR AIR ULTDOOR AIR ULTDOOR AIR ULTDOOR AIR ELTA T: CATING DESI RM TEMP: OA. TEMP: DELTA T: ATING LOAD ANS (WALL+ ANS (GLASS 'ELTRATION (B TOTAL: FETY: TAL TRANS LATING LOAD LET CHEN	O 20 0 GN DATA 70 6 64 70 70 70 70 70 70 70 70	DEG F	INI INFILTRATIC 484 3879 388 4267	FIL RATE: NW DEL T: NN BTUH BTUH BTUH BTUH BTUH BTUH BTUH	100000		LATEN COOLING S LTGSPWR: SH RATIO: TONNAGE:	SAFETY= T LOAD= CUMMARY DA 2 0 W/ 0.957 0.43 BASIS: SO	ZZO LATA TOT SF IN	SENSIBLE AL COOLING LOW CFINITE IDEX FOR VENT IN. CODE SUPPI IN. CODE OUTS AIR CHAN	LOAD= AD CFM = A/SQ FT = ILATION= PLY AIR = IDE AIR = GES/AIR =	513 22 0 055 13 4 5
ENTILATION OUTDOOR AIR OUTDOOR AIR ENT RATE: OOM AIR ELTA T: EATING DESI RM TEMP: OA. TEMP: DELTA T: ATING LOAD ANS (WALL+ ANS (GLASS IL TRATION (BETOTAL: FETY: TAL TRANS ATING LOAD LET CHEN NERAL	O 20 0 GN DATA 70 61 64 10: TRANSMIS ROOF): +SKYLITE): GLASS ARE 10% & INIFIL : FORCED II	DEG F	14 0 SON INI SONI SO	FIL RATE: NW DEL T: NN BTUH BTUH BTUH BTUH BTUH BTUH BTUH	100000		LATEN COOLING S LTGSPWR: SH RATIO: TONNAGE:	SAFETY= T LOAD= CUMMARY DA 2 0 W/ 0.957 0.43 BASIS: SO	ZZO LATA TOT SF IN	SENSIBLE AL COOLING LOW CFINITE IDEX FOR VENT IN. CODE SUPPI IN. CODE OUTS AIR CHAN	LOAD= AD CFM = A/SQ FT = ILATION= PLY AIR = IDE AIR = GES/AIR =	513 22 0 055 13 4 5
ENTILATION UTDOOR AIR UTDOOR AIR ENT RATE: OOM AIR ELTA T: EATING DESI RM TEMP: OA. TEMP: DELTA T: ATING LOAD ANS (WALL+ ANS (GLASS ELTRATION (B TOTAL: FETY: TAL TRANS ATING LOAD LET CHEN NERAL	GN DATA 70 64 64 70 65 64 70 68 70 68 70 68 70 68 70 68 70 68 70 68 70 69 70 70 70 70 70 70 70 70	DEG F DEG F DEG F DEG F DEG F DEG F DEG T DEG F DEG T D DEG T D D D D D D D D D D D D D D D D D D D	14 0 SON INI	FIL RATE: NW DEL T: NN BTUH BTUH BTUH BTUH BTUH BTUH BTUH	100000		LATEN COOLING S LTGSPWR: SH RATIO: TONNAGE:	SAFETY= T LOAD= CUMMARY DA 2 0 W/ 0.957 0.43 BASIS: SO	ZZO LATA TOT SF IN	SENSIBLE AL COOLING LOW CFINITE IDEX FOR VENT IN. CODE SUPPI IN. CODE OUTS AIR CHAN	LOAD= AD CFM = A/SQ FT = ILATION= PLY AIR = IDE AIR = GES/AIR =	513 22 0 055 13 4 5
ENTILATION UITDOOR AIR ENT RATE: OOM AIR ELTA T: EATING DESN RM TEMP: OA. TEMP: DELTA T: LATING LOAD ANS (WALL+ ANS (GLASS ELTRATION (B TOTAL: FETY: TAL TRANS ATING LOAD LIET CHEN NERAL ACK YER	O 20 0 GN DATA 70 64 64 70 70 64 70 70 70 70 70 70 70 70	DEG F	INI SON INI INI INFILTRATIO 483 2912 484 3879 388 4267 TON BTUH 3456 6912 0	FIL. RATE: NW DEL T: ON BTUH BTUH BTUH BTUH BTUH BTUH BTUH	100000		LATEN COOLING S LTGSPWR: SH RATIO: TONNAGE:	SAFETY= T LOAD= CUMMARY DA 2 0 W/ 0.957 0.43 BASIS: SO	ZZO LATA TOT SF IN	SENSIBLE AL COOLING LOW CFINITE IDEX FOR VENT IN. CODE SUPPI IN. CODE OUTS AIR CHAN	LOAD= AD CFM = A/SQ FT = ILATION= PLY AIR = IDE AIR = GES/AIR =	519 22 0 659 13 4 5
ENTILATION OUTDOOR AIR OUTDOOR AIR ELTA T: CATING DESI RM TEMP: OA TEMP: DELTA T: ATING LOAD ANS (WALL+ ANS (GLASS FLTRATION (TAL TRANS ATING LOAD LET CHEN NERAL ACK YER	O 20 0 GN DATA 70 64 64 70 70 64 70 70 70 70 70 70 70 70	DEG F DEG F DEG F DEG F DEG F DEG F DEG T DEG F DEG T D DEG T D D D D D D D D D D D D D D D D D D D	14 0 SON INI INI INI INI INI INI INI INI INI I	FIL. RATE: NW DEL T: DN BTUH BTUH BTUH BTUH BTUH BTUH	100000		LATEN COOLING S LTGSPWR: SH RATIO: TONNAGE:	SAFETY= T LOAD= CUMMARY DA 2 0 W/ 0.957 0.43 BASIS: SO	ZZO LATA TOT SF IN	SENSIBLE AL COOLING LOW CFINITE IDEX FOR VENT IN. CODE SUPPI IN. CODE OUTS AIR CHAN	LOAD= AD CFM = A/SQ FT = ILATION= PLY AIR = IDE AIR = GES/AIR =	513 22 0 055 13 4 5
ENTILATION UITDOOR AIR ENT RATE: OOM AIR ELTA T: EATING DESN RM TEMP: OA. TEMP: DELTA T: LATING LOAD ANS (WALL+ ANS (GLASS ELTRATION (B TOTAL: FETY: TAL TRANS ATING LOAD LIET CHEN NERAL ACK YER	O 20 0 GN DATA 70 6 64 70 70 70 70 70 70 70 70	DEG F DEG 108	INI SON INI INI INFILTRATIO 483 2912 484 3879 388 4267 TON BTUH 3456 6912 0	FIL. RATE: NW DEL T: NW BTUH BTUH BTUH BTUH BTUH BTUH	100000		LATEN COOLING S LTGSPWR: SH RATIO: TONNAGE:	SAFETY= T LOAD= CUMMARY DA 2 0 W/ 0.957 0.43 BASIS: SO	ZZO LATA TOT SF IN	SENSIBLE AL COOLING LOW CFINITE IDEX FOR VENT IN. CODE SUPPI IN. CODE OUTS AIR CHAN	LOAD= AD CFM = A/SQ FT = ILATION= PLY AIR = IDE AIR = GES/AIR =	511 22 0 655 11 5

ORIGINAL-KEEP IN FILE Cooling & Heating Load Calculations Lilker Associates Consulting Engineers, P C 88 LEONARD STREET 1001 Avenue of the Americas NEW YORK, NY New York, N.Y. 10018 212 695-1000 PROJECT: LIGHTING DATE: 19-Jan-04 DIMENSIONS: 10 FT 595 0 FT POWER: 0 W FLOOR #: 3-8 FLOOR AREAS 595 SF 1 PEOPLE 74 DEG F PEOPLE: 19 CEILING HT: 9 33 FT RM TEMP: INTERIOR/PERIMETER: 54 DEG F ENVELOPE DATA TRANSMISSION SHGF BTUH BTUR WALL 23 0 GLASS N 70 20.0 140 0 57 0 82 35 2290 150 0 65 1365 WALL E 87 00 -35 0 10 18 0 GLASS 50 35 0.57 0.76 216 WALL S 00 18.0 0 10 0 GLASS S 70 00 0 57 0 82 149 16 0 0 65 WALL 87 0.0 0.10 GLASS w 00 0.57 0.82 218 0 170 0.65 0 ROOF 00 0.0 0 20 430 SKYLIGHT 00 00 0 1 00 0.85 247 200 0 FLOOR 00 00 0 0.00 PARTITION 00 0 0.00 0.0 0.00 0 TOTAL AREA AND PERIMETERS SUB TOTAL= SUB TOTAL: WALL AREA GLASS 7092 (SF) AREA (SF EXTERNAL LOAD TOTAL= 175 INTERNAL COOLING LOAD LATENT LOAD SENSIBLE LOAD BTUH 1 PEOPLE 1 00 200 0 200 250 0 250 LIGHTING 1 00 4063 3.4 EQUIPMENT 0 WATTS 100 SENS HEAT BTUH 1 00 1.0 0 LATENT HEAT 10 VENTILATION 450 GR/LB 140 TD VENT RATE: 0 CFM/PERSON SUB TOTAL= 200 SUB TOTAL= 11404 ROOM AIR SAFFTY: 20 LATENT LOAD= DELTA T 20 0 DEG F 220 SENSIBLE LOAD= 12545 **HEATING DESIGN DATA COOLING SUMMARY DATA** RM TEMP: 70 DEG F TOTAL COOLING LOAD= 12765 01 CFWSF OA TEMP: INFIL RATE: 6 DEG F LOAD CFM = 581 HW DEL T: 20 DEG. F LTG&PWR: 2.0 W/SF DELTA T: 64 DEG F CFM/SQ FT = 10 SH RATIO: 0 983 INDEX FOR VENTILATION= 11501 HEATING LOAD: TRANSMISSION & INFILTRATION TONNAGE: 1 06 MIN. CODE SUPPLY AIR * 238 TRANS (WALL+ROOF): 155 BTUH MIN. CODE OUTSIDE AIR # 79 TRANS (GLASS+SKYLITE): 7280 BTUH AIR CHANGES/HR = 63 INFILTRATION (GLASS AREA): 1210 BTUH SUB TOTAL: 8644 BTUH SAFETY: 864 BTUH BASIS: LOAD FINAL CFM = 581 TOTAL TRANS & INIFIL 9509 BTUH HEATING LOAD: FORCED INFILTRATION HEATING SUMMARY DATA TOTAL WINTER HEATING = 13310 FACTOR BTUH TOILET 50 KITCHEN 0 1 08 0 GENERAL 0 1 06 0 STACK G 1 08 0 DRYER TOTAL 3455 BTUH SAFETY 10% 346 BTUH TOTAL FORCED INFILTRATION 3802 BTUH

Presed on 10/24/2006 at 8 49 Ata

F:88 LEANAROL 188 Leonard HVAC Load Calculations Edison Parlam

DRESS .

Scanned with CamScanner

				RIGI	NAL	-NE		I ILL	0 11	ating Load	Calcula	atione
Lilker A	ssociate	s				S 5555555		Cod	ing & He	eating Load	Calcula	STREET
onsulting En	gineers, P C											YORK, NY
	of the America	1										
lew York, N 1												
12 633-1000										DATE: 10.1	-n 04	
ROJECT:							LIGHTING:	2 W	1000	DATE: 19-J FLOOR #: 3-8	an-o-	
IMENSIONS	. 10	FT	×	354 0 FT	r	1	POWER:	0 W		APT#:	20	
LOOR AREA		SF			- 1		PEOPLE:	74 DE	OPLE	A		
EILING HT:	9 33						RM TEMP:	54 DE	20 1 1 2 1	1.000		
NTERIOR/PE	RIMETER:	Р				<u> </u>	DA TEMP.			100000		
										TRANSMISSION		
NVELOPE D	ATA					SOLAR	-	SHGF	BTUH	CLTD	U	BTUH
-	EXP	NUM I	HT V	WTH. N	ETSF	SC	CLF	Shor	Bion	42.55		
			- 1	14 8	62	2.55				11.0	0 10	68
VALL	N	1	87 70	95	67	0.57	0 82	35	1088	150	0 65	648
LASS	N E	0	87	00	0	3.5				18.0	0 10	0
VALL	E	0	70	00	0	0 57	0 76	216	0	70	0 10	ő
LASS VALL	S	0	87	00	0	19.35				180	0 65	ō
HASS	S	ŏ	70	0.0	0	0 57	0.82	149	0	160	0 10	0
VALL	w	0	87	0.0	0	1000000	10000000		٠	17.0	0 65	0
LASS	w	0	70	0.0	0	0 57	0 82	216	٥	430	0.20	0
ROOF		0	00	00	0	122323		247	0	2	2.00	0
KYLIGHT		0	00	00	0	1.00	0 85	247	٥	0	0.00	0
LOOR		0	00	00	0					0	0.00	
PARTITION		0	0.0	- 00	0					0	0.00	0
EILING		0	0.0	0.0	0			-		4 - 4 - 4 - 5	Section 1	
OTAL AREA	AND PERIM	TERS					SU	B TOTAL	1088		TOTAL=	716
WALL AREA	GLASS								EXT	TERNAL LOAD T	OTAL=	1804
(SF)	AREA (SF)							_				
62	67											
WITTONIAL C	OOLING LOA	n				LATENT	LOAD	0.43	- 5910	SENSIBLE LOAD	FACTOR	BTU
MIERNAL C	OOLING CO.			CLF				FACTOR	BTUH	1	250.0	250
								200.0	200 1	1		200
OCCUPANTS	5 1	PEOPLE		1 00				200 0	200	1	34	
		PEOPLE WATTS		1 00				200 0	200			2417
LIGHTING	708	NAME OF THE OWNER OWNER OF THE OWNER O		1 00				200 0	200		34	2417
LIGHTING EQUIPMENT	708	WATTS WATTS BTUH		1 00 1 00 1 00				200 0	200		34	2417
LIGHTING EQUIPMENT SENS HEAT	708	WATTS		1 00				(5	0		34 34 10	2417
LIGHTING EQUIPMENT SENS HEAT LATENT HEA	708 0	WATTS WATTS BTUH BTUH	450	1 00 1 00 1 00 1 00			1000	(5	:		34 34 10	2417
OCCUPANTS LIGHTING EQUIPMENT SENS HEAT LATENT HEA	708 0 AT 0	WATTS WATTS BTUH	450 (1 00 1 00 1 00 1 00				10	0	SUIF	34 34 10	2417
LIGHTING EQUIPMENT SENS HEAT LATENT HEAT VENTILATIO (OUTDOOR A	708. 0 AT	WATTS WATTS BTUH BTUH	140	1 00 1 00 1 00 1 00			su	10 07 JB TOTAL=	0 0 200		3.4 3.4 10 	2417
LIGHTING EQUIPMENT SENS HEAT LATENT HEAT VENTILATIO (OUTDOOR A VENT RATE	708. 0 AT	WATTS WATTS BTUH BTUH	140	1 00 1 00 1 00 1 00				07 08 TOTAL= SAFETY=	0 200 20	17 17	3.4 3.4 10 1.1 3.TOTAL= SAFETY=	2417
LIGHTING EQUIPMENT SENS HEAT LATENT HEA VENTILATIO (OUTDOOR A VENT RATE ROOM AIR	708 0 AT 0 MR) 0	WATTS WATTS BTUH BTUH	140	1 00 1 00 1 00 1 00				10 07 JB TOTAL=	0 0 200	17 17	3.4 3.4 10 	2417
LIGHTING EQUIPMENT SENS HEAT LATENT HEAT VENTILATIO (OUTDOOR A VENT RATE	708 0 AT 0 MR) 0	WATTS WATTS BTUH BTUH CFM CFMPERSO	140	1 00 1 00 1 00 1 00			LATE	07 07 08 TOTAL= SAFETY= NT LOAD=	0 200 20 220	17 17	3.4 3.4 10 1.1 3.TOTAL= SAFETY=	2417 0 0 4471 447 4918
LIGHTING EQUIPMENT SENS HEAT LATENT HEAT VENTILATIO (OUTDOOR A VENT RATE ROOM AIR DELTA T:	708 0 AT N 0 MR) : 0	WATTS WATTS BTUH BTUH CFM CFMPERSO	140	1 00 1 00 1 00 1 00			LATE	07 08 TOTAL= SAFETY=	0 200 200 220 220	SENSIBL	34 34 10 10 1.1 3 TOTAL= SAFETY= E LOAD=	2417 0 0 4471 447 4918
LIGHTING EQUIPMENT SENS HEAT LATENT HEA VENTILATIO (OUTDOOR A VENT RATE ROOM AIR DELTA T:	708 0 AT N 0 MR) 200	WATTS WATTS BTUH BTUH CFM CFMPERSO DEG F	140	1 00 1 00 1 00 1 00			LATE	07 07 08 TOTAL= SAFETY= NT LOAD=	0 200 200 220 220	SENSIBLE	3.4 3.4 1.0 1.1 3.TOTAL= SAFETY= ELOAD=	2417 0 0 447 447 4918
LIGHTING EQUIPMENT SENS HEAT LATENT HEJ VENTILATIO (OUTDOOR A VENT RATE ROOM AIR DELTA T: HEATING DI RM TEM	708 0 AT N 0 AIR) 200 ESIGN DATA P: 70	WATTS WATTS BTUH BTUH CFM CFMPERSO DEG F	14 0 °	1 00 1 00 1 00 1 00 1 00	91	CFWSF	LATE	10 07 08 TOTAL= SAFETY= ENT LOAD=	0 200 20 220 220	SENSIBLE	3.4 3.4 1.0 1.1 3.TOTAL= SAFETY= E LOAD= AD CFM =	2417 0 0 4477 447 4918
LIGHTING EQUIPMENT SENS HEAT LATENT HE VENTILATIO (OUTDOOR A VENT RATE ROOM AIR DELTA T: HEATING DI RM TEM O A TEM	708 0 AT N 0 AIR) 200 ESIGN DATA P: 70 P: 6	WATTS WATTS BTUH BTUH CFM CFMPERSO DEG F DEG F DEG F	140 °	1 00 1 00 1 00 1 00 1 00 GRAB TD		CFWSF DEG. F	COOLING	10 07 08 TOTAL= SAFETY= NT LOAD= SUMMARY 0	0 200 20 220 220	SENSIBLE	34 34 10 11 11 SAFETY= E LOAD= LOAD= A/SQ FT =	2417 0 0 4471 441 4918 513 221 0.1
LIGHTING EQUIPMENT SENS HEAT LATENT HEJ VENTILATIO (OUTDOOR A VENT RATE ROOM AIR DELTA T: HEATING DI RM TEM	708 0 AT N 0 AIR) 200 ESIGN DATA P: 70 P: 6	WATTS WATTS BTUH BTUH CFM CFMPERSO DEG F	140 °	1 00 1 00 1 00 1 00 1 00		CFWSF DEG. F	COOLING LTG&PWF SH RATIO	10 07 08 TOTAL= SAFETY= NT LOAD= SUMMARY 0	0 200 20 220 220	SENSIBLE OTAL COOLING LOG CFI INDEX FOR VENT	34 34 10 11 STOTAL= SAFETY= ELOAD= AD CFM = MSQ FT = BLATION=	2417 0 0 4471 447 4918 513 221 05 684:
LIGHTING EQUIPMENT SENS HEAT LATENT HEA VENTILATIO (OUTDOOR A VENT RATE ROOM AIR DELTA T: HEATING DI RM TEM DA TEM DELTA	708 0 AT N 0 AIR) 200 ESIGN DATA P: 70 P: 64	WATTS WATTS BTUH BTUH CFM CFMPERSO DEG F DEG F DEG F DEG F	INF H	I 00 I 00 I 00 I 00 GRALB TD			COOLING	10 07 08 TOTAL= SAFETY= NT LOAD= SUMMARY 0	0 200 20 220 220	SENSIBL OTAL COOLING LOW INDEX FOR VENT MIN. CODE SUPI	34 34 10 1.1 STOTAL= SAFETY= ELOAD= AD CFM = ILATION= PLY AIR =	2417 0 0 4471 441 4918 513 221 0.1
LIGHTING EQUIPMENT SENIOR HEAT LATENT HEAT (OUTDOOR A ROOM AIR DELTA T: HEATING DI RM TEM DELTA HEATING LI	708 0 AT N 0 MR) 200 ESIGN DATA P: 70 P: 64 DAD: TRANSM	WATTS WATTS BTUH BTUH CFM CFMPERSO DEG F DEG F DEG F DEG F	INF H	I 00 I 00 I 00 I 00 GRALB TD			COOLING LTG&PWF SH RATIO	10 07 08 TOTAL= SAFETY= NT LOAD= SUMMARY 0	0 200 20 220 220	SENSIBL OTAL COOLING LO/ CFI INDEX FOR VENT MIN. CODE SUP! MIN. CODE OUTS	34 34 10 11 STOTAL= SAFETY= ELOAD= AD CFM = AUSG FT = ILATION= PLY AIR = IDE AIR =	2417 0 0 4477 4918 513 221 684 141
LIGHTING EQUIPMENT SENS HEAT LATENT HE VENTILATIO (OUTDOOR A VENT RATE ROOM AIR DELTA T: HEATING DI RM TEM DELTA HEATING LI TRANS (WA	708 0 AT N 0 UIR) 200 ESSIGN DATA P: 70 P: 6 T: 64 DAD: TRANSM	WATTS WATTS BTUH BTUH CFM CFMPERSO DEG F DEG F DEG F DEG F DEG F DEG F	INF H	I 00 I 00 I 00 I 00 GRALB TD			COOLING LTG&PWF SH RATIO	10 07 08 TOTAL= SAFETY= NT LOAD= SUMMARY 0	0 200 20 220 220	SENSIBL OTAL COOLING LOW INDEX FOR VENT MIN. CODE SUPI	34 34 10 11 STOTAL= SAFETY= ELOAD= AD CFM = AUSG FT = ILATION= PLY AIR = IDE AIR =	2411 (447 444 4911 513 22 0.684 44
LIGHTING EQUIPMENT SENS HEAT LATENT HEAT VENTILATIO (OUTDOOR A VENT RATE ROOM AIR DELTA T: HEATING DI RM TEM O A TEM DELTA HEATING LIGHT TRANS (WA TRANS (WA TRANS (WA TRANS (WA TRANS (WA)	708 0 AT N 0 AIR) : 0 200 ESIGN DATA P: 70 P: 64 T: 64 DAD: TRANSM	WATTS WATTS BTUH BTUH CFM CFMPERSO DEG F	INF H FILTRATIC 395 2763 460	I 00			COOLING LTG&PWF SH RATIO	10 07 08 TOTAL= SAFETY= NT LOAD= SUMMARY 0	0 200 20 220 220	SENSIBL OTAL COOLING LO/ CFI INDEX FOR VENT MIN. CODE SUP! MIN. CODE OUTS	34 34 10 11 STOTAL= SAFETY= ELOAD= AD CFM = AUSG FT = ILATION= PLY AIR = IDE AIR =	2417 447 447 4911 513 222 00 684 14 4 5
IGHTING EQUIPMENT SENS HEAT LATENT HEAT VENTILATION (OUTDOOR A VENT RATE ROOM AIR DELTA T: HEATING DI RM TEM DA TEM DELTA HEATING LI HEATING L	708 0 AT N 0 LIR) 200 ESIGN DATA P: 70 P: 64 T: 64 DAD: TRANSh LL+ROOF): ASS+SKYLITE DN (GLASS AF	WATTS WATTS BTUH BTUH CFM CFMPERSO DEG F	INF H FILTRATIC 395 2763 460	GRALB TD			COOLING LTG&PWF SH RATIO	10 07 08 TOTAL= SAFETY= NT LOAD= 2 SUMMARY 0 3 0 957 6: 0.43	0 200 20 220 220 DATA	SENSIBL OTAL COOLING LOV CFM RNDEX FOR VENT MIN. CODE SUPI MIN. CODE OUTS AIR CHAN	34 34 10 11 STOTAL= SAFETY= ELOAD= AD CFM = AUSG FT = ILATION= PLY AIR = IDE AIR =	2417 447 447 4911 513 222 00 684 14 4 5
IGHTING EQUIPMENT SENS HEAT LATENT HEAT VENTILATION (OUTDOOR A VENT RATE ROOM AIR DELTA T: HEATING DI RM TEM O A TEM DELTA HEATING (WA TRANS (WA TRANS (GL INFILTRATIC SUB TOTAL	708 0 AT N 0 LIR) 200 ESIGN DATA P: 70 P: 64 T: 64 DAD: TRANSh LL+ROOF): ASS+SKYLITE DN (GLASS AF	WATTS WATTS BTUH BTUH CFM CFMPERSO DEG F DEG F DEG F DEG F RISSION & INI REA):	14 0 'ON INF H	I 00			COOLING LTG&PWF SH RATIO	10 07 08 TOTAL= SAFETY= NT LOAD= 2 SUMMARY 0 3 0 957 6: 0.43	0 200 20 220 220	SENSIBL OTAL COOLING LOV CFM RNDEX FOR VENT MIN. CODE SUPI MIN. CODE OUTS AIR CHAN	34 34 10 11 STOTAL= SAFETY= E LOAD= AD CFM = MSQ FT = ILATION= PLY AR = IDE AIR = GES/HR =	2417 (447) 447) 4910 513 220 684 14 4 5
IGHTING EQUIPMENT SENS HEAT LATENT HE VENTILATIO (OUTDOOR A VENT RATE ROOM AIR DELTA T: HEATING DI RM TEM DA TEM DELTA HEATING LO TRANS (GL) INFILTRATIC SUB TOTAL SAFETY:	NO ONESIGN DATA P: 708 P: 64 DAD: TRANSM LL+ROOF): ASS+SKYLITE DN (GLASS AF	WATTS WATTS BTUH BTUH CFM CFMPERSO DEG F DEG F DEG F DEG F RISSION & INI REA):	INF H FILTRATIO 395 2763 460 3821 362	I 00			COOLING LTG&PWF SH RATIO	10 07 08 TOTAL= SAFETY= NT LOAD= 2 SUMMARY 0 3 0 957 6: 0.43	0 200 20 220 220 DATA	SENSIBL OTAL COOLING LOV CFM RNDEX FOR VENT MIN. CODE SUPI MIN. CODE OUTS AIR CHAN	34 34 10 11 STOTAL= SAFETY= E LOAD= AD CFM = MSQ FT = ILATION= PLY AR = IDE AIR = GES/HR =	2417 (447) 447) 4910 513 220 684 14 4 5
LIGHTING EQUIPMENT SENS HEAT LATENT HEAT VENTILATIO (OUTDOOR A VENT RATE ROOM AIR DELTA T: HEATING DI RM TEM O A TEM DELTA HEATING LI TRANS (WA TRANS (GL) INFILTRATIC SUB TOTAL SAFETY: TOTAL TRA	N O O O O O O O O O O O O O O O O O O O	WATTS WATTS BTUH BTUH CFM CFMPERSO DEG F DEG F DEG F DEG, F MISSION & INI): REA):	INF H FILTRATIC 395 2763 460 3821 362 3983	I 00 GRALB TD GRALB TD GRATE: W DEL T: DN BTUH BTUH BTUH BTUH BTUH BTUH			COOLING LTG&PWF SH RATIO TONNAGE	10 07 JB TOTAL= SAFETY= INT LOAD= SUMMARY II R: 20 V D: 0957 E: 0.43 BASIS: S	DATA O 200 220 DATA O 200 220 DATA	SENSIBL OTAL COOLING LOG CFM RNDEX FOR VENT MIN. CODE SUPI MIN. CODE OUTS AIR CHAN	34 34 10 11 STOTAL= SAFETY= E LOAD= ANG FM = ANG FT = ILATION= PLY AR = GESHR = L CFM =	2417 0 0 4471 4918 513 222 03 6844 144 55
LIGHTING EQUIPMENT SENS HEAT LATENT HEAT VENTILATIO (OUTDOOR A VENT RATE ROOM AIR DELTA T: HEATING DI RM TEM O A TEM DELTA HEATING LI TRANS (WA TRANS (GL) INFILTRATIC SUB TOTAL SAFETY: TOTAL TRA	NO O O O O O O O O O O O O O O O O O O	WATTS WATTS BTUH BTUH CFM CFMPERSO DEG F DEG	INF H FILTRATIC 395 460 3821 362 3983	I 00 GRALB TD GRALB TD GRATE: W DEL T: DN BTUH BTUH BTUH BTUH BTUH BTUH			COOLING LTG&PWF SH RATIO TONNAGE	10 07 08 TOTAL= SAFETY= NT LOAD= 2 SUMMARY 0 3 0 957 6: 0.43	DATA O 200 220 DATA O 200 220 DATA	SENSIBL OTAL COOLING LOO COM INDEX FOR VENT MIN. CODE SUPI MIN. CODE OUTS AIR CHAN	34 34 10 11 STOTAL= SAFETY= E LOAD= AD CFM = AISO FT = ILATION= PLY AR = DE AIR = L CFM =	2417 (447) 447; 447; 491; 513 22; 684; 14; 4 5.
LIGHTING EQUIPMENT SENS HEAT LATENT HEAT VENTILATIO (OUTDOOR A VENT RATE ROOM AIR DELTA T: HEATING DI RM TEM O A TEM DELTA HEATING LI TRANS (WA TRANS (GL) INFILTRATIC SUB TOTAL SAFETY: TOTAL TRA	P: 64 T: 64 DAD: TRANSPI ASS+SKYLITE DOM: GLASS AF DOAD: FORCEI CFM	WATTS WATTS BTUH BTUH CFM CFMPERSO DEG F	INF H FILTRATIC 3753 460 3821 362 3983 ON BTUH	I 00 GRALB TD GRALB TD GRATE: W DEL T: DN BTUH BTUH BTUH BTUH BTUH BTUH			COOLING LTG&PWF SH RATIO TONNAGE	10 07 JB TOTAL= SAFETY= INT LOAD= SUMMARY II R: 20 V D: 0957 E: 0.43 BASIS: S	DATA O 200 220 DATA O 200 220 DATA	SENSIBL OTAL COOLING LOO COM INDEX FOR VENT MIN. CODE SUPI MIN. CODE OUTS AIR CHAN	34 34 10 11 STOTAL= SAFETY= E LOAD= ANG FM = ANG FT = ILATION= PLY AR = GESHR = L CFM =	2417 447 447 4911 513 222 01 884 14 4 5
IGHTING EQUIPMENT SENS HEAT LATENT HE VENTILATIO (OUTDOOR A VENT RATE ROOM AIR DELTA T: HEATING DI RM TEM O A TEM DELTA HEATING LO TRANS (GL) INFILTRATIN SUB TOTAL SAFETY: TOTAL TRA HEATING LO TOTAL TRA	P: 708 AT N 0 AIR) 200 ESIGN DATA P: 70 P: 6 T: 64 DAD: TRANSM LL-ROOF): ASS+SKY/LITE DON (GLASS AF : 10% NS 8 INIFIL OAD: FORCEL	WATTS WATTS WATTS BTUH BTUH CFM CFMPERSO DEG F	INF H FILTRATIO 395 2763 460 3821 362 3983 ON BTUH 3456	I 00 GRALB TD GRALB TD GRATE: W DEL T: DN BTUH BTUH BTUH BTUH BTUH BTUH			COOLING LTG&PWF SH RATIO TONNAGE	10 07 JB TOTAL= SAFETY= INT LOAD= SUMMARY II R: 20 V D: 0957 E: 0.43 BASIS: S	DATA O 200 220 DATA O 200 220 DATA	SENSIBL OTAL COOLING LOO COM INDEX FOR VENT MIN. CODE SUPI MIN. CODE OUTS AIR CHAN	34 34 10 11 STOTAL= SAFETY= E LOAD= AD CFM = AISO FT = ILATION= PLY AR = DE AIR = L CFM =	2411 447 444 491 513 22 0. 884 14 4 5
IGHTING EQUIPMENT SENS HEAT LATENT HEA VENTILATIO (OUTDOOR A VENTILATIO (OUTDOOR A VENT RATE ROOM AIR DELTA T: HEATING DI RM TEM DELTA TRANS (WA TRANS (GL INFILTRATIK SAFETY: TOTAL TRA HEATING LI TOILET KITCHEN	P: 64 DAD: TRANSM LL+ROOF): ASS+SKYLITE ON (GLASS AF: 10% NS & INIFIL CAD: FORCEI	WATTS WATTS BTUH BTUH CFM CFMPERSO DEG F	INF H FILTRATIO 395 2768 1 460 38211 362 3983 ON BTUH 3456 6912	I 00 GRALB TD GRALB TD GRATE: W DEL T: DN BTUH BTUH BTUH BTUH BTUH BTUH			COOLING LTG&PWF SH RATIO TONNAGE	10 07 JB TOTAL= SAFETY= INT LOAD= SUMMARY II R: 20 V D: 0957 E: 0.43 BASIS: S	DATA O 200 220 DATA O 200 220 DATA	SENSIBL OTAL COOLING LOO COM INDEX FOR VENT MIN. CODE SUPI MIN. CODE OUTS AIR CHAN	34 34 10 11 STOTAL= SAFETY= E LOAD= AD CFM = AISO FT = ILATION= PLY AR = DE AIR = L CFM =	2411 447 444 491 513 22 0. 884 14 4 5
IGHTING EQUIPMENT SENS HEAT LATENT HE VENTILATION (OUTDOOR A VENTILATION (OUTDOOR A VENT RATE ROOM AIR DELTA T: HEATING DI RM TEM O A TEM DELTA HEATING LI TRANS (WA TRANS (GL INFILTRATI SUB TOTAL TRA HEATING LI TOILET KITCHEN GENERAL	P: 708 AT N 0 AT N 0 200 ESSIGN DATA P: 70 P: 64 DAD: TRANSM LL+ROOF): ASS+SKYLITE DN (GLASS AF : 10% NS 8 INIFIL OAD: FORCEI	WATTS WATTS BTUH BTUH CFM CFMPERSO DEG F DEG	INF H FILTRATIC 395 2763 460 3821 362 3983 ON BTJH 3456 6912 0	I 00 GRALB TD GRALB TD GRATE: W DEL T: DN BTUH BTUH BTUH BTUH BTUH BTUH			COOLING LTG&PWF SH RATIO TONNAGE	10 07 JB TOTAL= SAFETY= INT LOAD= SUMMARY II R: 20 V D: 0957 E: 0.43 BASIS: S	DATA O 200 220 DATA O 200 220 DATA	SENSIBL OTAL COOLING LOO COM INDEX FOR VENT MIN. CODE SUPI MIN. CODE OUTS AIR CHAN	34 34 10 11 STOTAL= SAFETY= E LOAD= AD CFM = AISO FT = ILATION= PLY AR = DE AIR = L CFM =	2411 447 444 491 513 22 0. 884 14 4 5
JEGHTING EQUIPMENT SENS HEAT LATENT HEAT VENTILATION (OUTDOOR AVENT RATE ROOM AIR DELTA T: HEATING DI RM TEM DELTA HEATING LI TRANS (WA TRANS (GL) INFILTRATIA SUB TOTAL SAFETY: TOTAL TRA HEATING LI TOILET KILLET KILLET GENERAL STACK	N 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WATTS WATTS BTUH BTUH CFM CFMPERSO DEG F	INF H FILTRATIO 395 2768 1 460 38211 362 3983 ON BTUH 3456 6912	I 00 GRALB TD GRALB TD GRATE: W DEL T: DN BTUH BTUH BTUH BTUH BTUH BTUH			COOLING LTG&PWF SH RATIO TONNAGE	10 07 JB TOTAL= SAFETY= INT LOAD= SUMMARY II R: 20 V D: 0957 E: 0.43 BASIS: S	DATA O 200 220 DATA O 200 220 DATA	SENSIBL OTAL COOLING LOO COM INDEX FOR VENT MIN. CODE SUPI MIN. CODE OUTS AIR CHAN	34 34 10 11 STOTAL= SAFETY= E LOAD= AD CFM = AISO FT = ILATION= PLY AR = DE AIR = L CFM =	2417 447 447 4911 513 222 01 884 14 4 5
IGHTING EQUIPMENT SENS HEAT LATENT HE VENTILATIO (OUTDOOR A VENT RATE ROOM AIR DELTA T: HEATING DI RM TEM O A TEM DELTA HEATING LO TRANS (GL) INFILTRATIS SAFETY: TOTAL TRA HEATING LO TOILET KITCHEN GENERAL STACK DRYER	N 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WATTS WATTS BTUH BTUH CFM CFMPERSO DEG F DEG	INF H FILTRATIC 395 2765 460 3821 362 3983 ON BTJH 3456 6912 0	I 00 GRALB TD GRALB TD GRATE: W DEL T: DN BTUH BTUH BTUH BTUH BTUH BTUH			COOLING LTG&PWF SH RATIO TONNAGE	10 07 JB TOTAL= SAFETY= INT LOAD= SUMMARY II R: 20 V D: 0957 E: 0.43 BASIS: S	DATA O 200 220 DATA O 200 220 DATA	SENSIBL OTAL COOLING LOO COM INDEX FOR VENT MIN. CODE SUPI MIN. CODE OUTS AIR CHAN	34 34 10 11 STOTAL= SAFETY= E LOAD= AD CFM = AISO FT = ILATION= PLY AR = DE AIR = L CFM =	2417 447 447 4911 513 222 01 884 14 4 5
LIGHTING EQUIPMENT SENS HEAT LATENT HEAT VENTILATIO (OUTDOOR A VENT RATE ROOM AIR DELTA T: HEATING DI RM TEM O A TEM DELTA HEATING LI TRANS (WA TRANS (GL) INFILTRATIA SUB TOTAL SAFETY: TOTAL TRA HEATING LI TOILET KILCHEN GENERAL STACK	N 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WATTS WATTS WATTS BTUH BTUH CFM CFMPERSO DEG F	INF H FILTRATIO 395 2763 460 3821 362 3983 ON BTJH 3456 6912 0 0	I 00 I 00 I 00 I 00 I 00 I 00 GRALB TD			COOLING LTG&PWF SH RATIO TONNAGE	10 07 JB TOTAL= SAFETY= INT LOAD= SUMMARY II R: 20 V D: 0957 E: 0.43 BASIS: S	DATA O 200 220 DATA O 200 220 DATA	SENSIBL OTAL COOLING LOO COM INDEX FOR VENT MIN. CODE SUPI MIN. CODE OUTS AIR CHAN	34 34 10 11 STOTAL= SAFETY= E LOAD= AD CFM = AISO FT = ILATION= PLY AR = DE AIR = L CFM =	2417 (6) (447) 447) 447) 447) 447) 513 222 01 6844 14 4 5

Primed on 10/24/2005 at 6.48 AM

F:88 LEANARDL 168 Leonard HVAC Load Calculations Edison Parkin

3-0,21

Consulting En 1001 Avenue New York, N Y 212 595-1000	of the Am Y 10018	c			ORI	GINAI	L-KE	EP IN	FILE	oling & He	ating Load	Calcula 88 LEONARD NEW Y	STREET ORK, NY
PROJECT:								LIGHTING:	2 1	N/SF	DATE: 19-	Jan-04	
DIMENSIONS		10 FT		×	326 0	FT	1	POWER:	0 1	w	FLOOR #: 3-8		- 1
FLOOR AREA		26 SF		^	320 0	.		PEOPLE:		PEOPLE	APT #:	22	
CEILING HT:	-	33 FT						RM TEMP:	-0.17//	DEG. F			
INTERIOR/PE				P		- 1		BA TEMP:	54 (DEG F			
ATTENDED OF E		_	_	-									
											TRANSMISSION		
ENVELOPE D							SOLAR	CLF	SHGF	BTUH	CLTD		втин
	EXP	NU	м	нт	WTH	NETSF	30	CLF	31101	0.0		0.000	
WALL	N		1	8.7	16.8	75				- 1	11.0	0.10	63
GLASS	N		1	70	100	70	0.57	0 82	35	1145	15.0	0.65	683
WALL	E		ò	8.7	00	0				77.55	18.0	0.10	0
GLASS	E		ő	70	0.0	8	0.57	0.78	216	اه	7.0	0.65	0
WALL	S		0	87	00	8	1 00	010	2.0	*1	18.0	0.10	. 0
CLASS	S		0	70	00	8	0 57	0.82	149	0	16.0	0.65	0
	w		-	87	00	15.	1 00	0 02	143	~1	18.0	0.10	0
WALL	* *		0	70		0	0.57	0.82	216	اه	17.0	0 65	0
GLASS	W		0		00	0	05/	0.02	210	1	430	0 20	0
ROOF			0	00	00	0			***	۰	2	200	o
SKYLIGHT			0	0.0	00	0	100	0 85	247	٧	6	000	ő
FLOOR			0	00	0.0	0						0 00	ő
PARTITION			0	0.0	00	0	1			-	0	000	ő
EILING			0	00	00	0					0	000	
OTAL AREA	AND PER	EMETE	RS			Commence of the Commence of th	1				211	TOTAL=	766
WALL AREA	GLAS	s						SU	= JATOT B	1145			
(SF)	AREA (SF)								EXT	ERNAL LOAD	TOTAL=	1911
75	70	$\overline{}$											
		_											
NTERNAL CO	DOLING L	CAD					LATENT I	.OAD			SENSIBLE LOAD		
					CLF				FACTOR	BTUH		FACTOR	BTU
OCCUPANTS		1 PE	OPLE		1 00	- 1	1		200 0	200	1	250 0	250
JIGHTING		52 W	ATTS		1 00	1	1			-		34	2226
EQUIPMENT		0 W			1 00				-	-		3.4	0
SENS HEAT		ВТ	37077		1 00					-		1.0	0
LATENT HEAT	т	BT	2000		1.00				10	0			
VENTILATION		0 CF	м	450	GRALB				0.7	0			
OUTDOOR AR	R)			140	TD	- 1	1			-	1	1.1	
VENT RATE:		0 CF	WPERS	ON				SU	B TOTAL=	200	SU	B TOTAL=	4387
ROOM AIR									SAFETY=	20		SAFETY=	439
DELTAT.	2	O DE	GF				1	LATE	T LOAD=	220	SENSIB	LE LOAD=	4825
							-				-		
								0001 8/1	SUMMARY	DATA			
EATING DES								COOLING	SUMMART		TAL PROLING	TOAD-	504
RM TEMP:		70 DE	G. F				20000			- 10	TAL COOLING		
OA TEMP		6 DE	GF		IL RATE		CFWSF					AD CFM =	22
DELTA T		64 DE	GF	н	W DEL T	20 (DEG F	LTG&PWF		W/SF		M/SQ FT =	01
								SH RATIO			INDEX FOR VEN		630
EATING LOA	AD: TRAN	SMISS	ON & IN	FILTRATIC	N			TONNAGE	0 42		MIN. CODE SUF	PLY AIR =	13
RANS (WALL					втин	1					MIN. CODE OUT	SIDE AIR =	4
RANS (GLAS					BTUH	I		1			AIR CHA	IGES/HR =	5
NFILTRATION			4		ВТИН	1							
	1 (00,000				BTUH	1							
LIATOT BUS						1		1	BASIC.	SQUARE FOOT	FINA	L CFM =	29
SAFETY:		0%			втин	1		1	מוכאם:	JUJUNE FUUI	FINA	- or m -	23
OTAL TRANS	SAINIFE			4267	втин]							
						77							
EATING LOA								HEATING	SUMMARY	DATA			156
	CFM		CTOR	BTUH		l					TOTAL WINTER		
OILET		50	1.08	3456		I					WA	TER GPM =	
ITCHEN		100	1.08	6912				Calver					
		0	1 08	0		l							
ENERAL		0	1 08	0		1							
		ŏ	1 00	o		l							
TACK													
TACK		<u> </u>		10268	RTITE	ł							
TACK PRYER OTAL				10368									
SENERAL STACK ORYER OTAL AFETY: OTAL FORCE		0%			ВТОН								

Lilker Associ Consulting Engineers. 1001 Avenue of the Ar New York, N.Y 10018 212 695-1000	P C.			טוחנ	, INVA	17	EEP IN	Coo	oling & He	eating Loa	88 LEONAR	
PROJECT:		_			_		LIGHTING:	2 W	V/SF	DATE: 19	Jan-04	
DIMENSIONS:	10 FT		×	595 0	FT	11	POWER:	0 W		FLOOR #: 3-4		
	595 SF						PEOPLE:	1 P	EOPLE	APT #:	23	
	9 33 FT						RM TEMP:		EG. F			
INTERIOR/PERIMETE	£:	Р					S.A. TEMP:	54 D	EG F			
EMEN ORE DATA												
ENVELOPE DATA	NUM	-	IT. V	WTH	NETSF	SOLAR	CLF	SHGF	BTUH	TRANSMISSION		BTU
- marine	100000000					"	0.00	31		100	6.12	
WALL N		1	8.7	216	47					11.0	0 10	52
GLASS N		1	70	20 0	140	0 57	0.82	35	2290	15.0	0.65	1365
WALL E		0	87	0.0	0				VA. /1880	180	0 10	
GLASS E		0	70	0.0	0	0.57	0.76	216	0	70	0 65	
WALL S		0	8.7	0.0	0	1,200				180	0 10	•
GLASS S		0	7.0	0.0	٥	0 57	0 82	149	١٥	16.0	0.65	
WALL W		1	8.7	6.0	10	9020000	9,838382	V2.0000		18.0	0.10	10
GLASS W		1	70	60	42	0 57	0.82	216	4240	17.0	0.65	46
ROOF		0	0.0	0.0	0	2,2038	150000	12022		430	0 20	
SKYLIGHT FLOOR		0	0.0	0.0	0	1.00	0.85	247	١٩	2	200	
PARTITION		0	0.0	0.0	0					0	000	
CEILING		0	0.0	0.0	0	1				0	0.00	-
TOTAL AREA AND PER	METERS	•	00	0.0	0						0.00	-
							SUB	TOTAL=	6531	SUF	TOTAL=	1899
(SF) AREA (S						1	500	TOTAL		ERNAL LOAD		8429
57 182	4											
NTERNAL COOLING LO	DAU			CLF		LATENT				SENSIBLE LOAD		BTU
								FACTOR	RTUHI		FACTOR	
CCUPANTS	1 PEOPL	F	5.0					FACTOR 200 0	BTUH		FACTOR 250.0	
	1 PEOPL		9.	1.00				FACTOR 200 0	200		250.0	250
IGHTING 119	0 WATTS			1.00								
IGHTING 119				1.00							250.0 3.4	4063 4063
IGHTING 119 QUIPMENT	WATTS			1.00 1.00 1.00							250 0 3.4 3.4	4063 4063
IGHTING 119 QUIPMENT ENS HEAT ATENT HEAT	WATTS WATTS BTUH BTUH		450 GF	1.00 1.00 1.00 1.00 1.00				200 0	200		250 0 3.4 3.4	4063 4063
IGHTING 119 QUIPMENT ENS HEAT ATENT HEAT	WATTS WATTS BTUH			1.00 1.00 1.00 1.00 1.00				200 0	200		250 0 3.4 3.4 1.0	250 4063 (
IGHTING 119 OUIPMENT ENS HEAT ATENT HEAT ENTILATION OUTDOOR AIR)	WATTS WATTS BTUH BTUH		450 GF	1.00 1.00 1.00 1.00 1.00				200 0	200		250.0 3.4 3.4 1.0	250 4063
IGHTING 119 OUIPMENT ENS HEAT ATENT HEAT ENTILATION OUTDOOR AIR)	WATTS WATTS BTUH BTUH		450 GF	1.00 1.00 1.00 1.00 1.00			SUB	10	0	SUB	250.0 3.4 3.4 1.0	250 4063 0
ISOME AIR COMPANY C	WATTS WATTS BTUH BTUH		450 GF	1.00 1.00 1.00 1.00 1.00			SUB	200 0 1 0 0.7 TOTAL=	0 200	SUB	250 0 3.4 3.4 10 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1	256 4063 (12742 12742
ISOM AIR COUPMENT ENS HEAT ATENT HEAT ENTILATION DUTDOOR AIR) ENT RATE: COOM AIR ELTA T: 20 (O WATTS O WATTS BTUH BTUH O CFM		450 GF	1.00 1.00 1.00 1.00 1.00			SUB S LATENT	200 0 1 0 0.7 TOTAL= AFETY= rLOAD=	200 0 200 200 220 220	SUB	250 0 3.4 3.4 10 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1	256 4063 (12742 12742
ISHTING 119 CUIPMENT ENS HEAT ATENT HEAT ENTILATION CUITDOOR AIR) ENT RATE: COOM AIR ELTAT: 20 EATING DESIGN DATA	O WATTS O WATTS BTUH BTUH O CFM O CFMPE		450 GF	1.00 1.00 1.00 1.00 1.00			SUB S	200 0 1 0 0.7 TOTAL= AFETY= rLOAD=	200 0 200 200 220 220	SUE SENSIBL	250 0 3.4 3.4 10 1.1 3 TOTAL= SAFETY= E LOAD=	255 4065 ((12745 1274 14016
GHTING 119 CUIPMENT ENS HEAT ATENT HEAT ENTITEATION COUNTDOOR AIR) ENT RATE: COOM AIR ELITAT: 20 (EATING DESIGN DATA RM TEMP: 7	O WATTS O WATTS BTUH BTUH O CFM O CFMPE O DEG F		450 GF 140 TD	1.00 1.00 1.00 1.00 1.00 1.00	01.05	THE PARTY OF THE P	SUB S LATENT	200 0 1 0 0.7 TOTAL= AFETY= rLOAD=	200 0 200 200 220 220	SENSIBL	250 0 34 34 10 10 1.1 3 TOTAL= SAFETY= E LOAD=	255 4065 (1274) 1274 14016
ISOUPMENT COUPMENT ENS HEAT ATENT HEAT ENTILATION DUTDOOR ART) ENT RATE: COOM AIR CELTA T: 20 CELTA T: 20 CELTA T: 70 CELTA T:	O WATTS O WATTS BTUH BTUH O CFM O CFMPE O DEG F		450 GF 140 TD	1.00 1.00 1.00 1.00 1.00 1.00	01 CF		SUB S LATENT	200 0 1 0 0.7 TOTAL= AFETY= FLOAD=	200 200 200 220 220	SENSIBL	250 0 3.4 3.4 10 1.1 3 TOTAL= SAFETY= E LOAD= LOAD= D CFM =	256 4063 (12742 1274 14018
ISOUPMENT COUPMENT ENS HEAT ATENT HEAT ENTILATION DUTDOOR ART) ENT RATE: COOM AIR CELTA T: 20 CELTA T: 20 CELTA T: 70 CELTA T:	O WATTS O WATTS BTUH BTUH O CFM O CFMPE O DEG F		450 GF 140 TD	1.00 1.00 1.00 1.00 1.00 1.00	01 CF 20 DE		SUB S LATENT	200 0 1 0 0 7 TOTAL= AFETY= FLOAD= JMMARY DA	200 200 200 220 220 220	SUB SENSIBL FAL COOLING LOA CFM	250 0 3.4 3.4 10 1.1 1 TOTAL- SAFETY= E LOAD= LOAD= USQ FT =	250 4063 (0 12742 1274 14016 1423 648 1.1
GHTING 119 OUIPMENT ENS HEAT ATENT HEAT ENTILATION DUTDOOR AR) ENT RATE: GOOM AIR ELTA T: 20 G EATING DESIGN DATA RM TEMP: O A TEMP: DELTA T: 6	O WATTS BTUH BTUH CFM CFM DEG. F DEG. F DEG. F DEG. F	RSON	450 GF 140 TD	1.00 1.00 1.00 1.00 1.00 1.00			SUB S LATENT COOLING SE LTG&PWR: SH RATIO:	200 0 10 0.7 TOTAL= AFETY= FLOAD= UMMARY DA 2.0 W/S 0.985	200 200 200 220 220	SUB SENSIBL TAL COOLING LOA CFM IDEX FOR VENTI	250 0 3.4 3.4 10 1.1 1.1 TOTAL- SAFETY= E LOAD= LOAD= VSQ FT = LATION=	1274 1274 14016 1423 14016
GHTING 119 COUPMENT ENS HEAT ATENT HEAT ENTITEATION COUNTROOR AIR) ENT RATE: COOM AIR ELITAT: 20 EATING DESIGN DATA RM TEMP: DELTAT: 6 EATING LOAD: TRANSI	O WATTS BTUH BTUH CFM CFM DEG. F DEG. F DEG. F DEG. F	RSON	450 GF 140 TD INFIL HW I	1.00 1.00 1.00 1.00 1.00 1.00 PUB			SUB S LATENT	200 0 1 0 0 7 TOTAL= AFETY= FLOAD= JMMARY DA	200 200 200 220 220	SENSIBL FAL COOLING LOA FOR VENTI MIN. CODE SUPP	250 0 34 34 10 1.1 3 TOTAL= SAFETY= E LOAD= LOAD= LOAD= LOAD= LOAD= LOAD= LOAD= LOAD= LATION= LY AR =	1274 1274 14016 1423 645 1.1 11500 238
INCHTING 119 COUPMENT ENS HEAT ATENT HEAT ENTILATION JUTDOOR ART) ENT RATE: COOM AIR ELTA T: 20 C EATING DESIGN DATA RM TEMP: 7 OA TEMP: DELTA T: 6 EATING LOAD: TRANSI ANS (WALL+ROOF):	O WATTS O WATTS BTUH BTUH O CFM O CFM O DEG F	RSON	450 GF 140 TD INFIL HW I	1.00 1.00 1.00 1.00 1.00 1.00 1.00			SUB S LATENT COOLING SE LTG&PWR: SH RATIO:	200 0 1 0 0.7 TOTAL= AFETY= FLOAD= UMMARY DA 2.0 W/S 0.985	200 200 200 220 220	SENSIBL SENSIBL LOA CFM IDEX FOR VENT MIN. CODE SUPP IIN. CODE OUTSI	250 0 34 34 10 1.1 1.1 1.1 1.1 1.1 1.1 1.1	256 4063 (1274 1274 14016 1423 645 1.1 1150 238
ISOUIPMENT ENS HEAT ATENT HEAT ENTILATION DUTDOOR ART) ENT RATE: COOM AIR ELTA T: 20 (COOM) EATING DESIGN DATA RM TEMP: 7 OA TEMP: DELTA T: 6 EATING LOAD: TRANSI ANS (WALL+ROOF): ANS (GLASS+SKYLITE ANS (GLASS+SKYLITE	O WATTS O WATTS BTUH BTUH O CFM O CFM/PE O DEG F O DEG F O DEG F O DEG F	RSON	INFL HW I RATION 365 BTU 7571 BTU	1.00 1.00 1.00 1.00 1.00 1.00 1.00			SUB S LATENT COOLING SE LTG&PWR: SH RATIO:	200 0 1 0 0.7 TOTAL= AFETY= FLOAD= UMMARY DA 2.0 W/S 0.985	200 200 200 220 220	SENSIBL FAL COOLING LOA FOR VENTI MIN. CODE SUPP	250 0 34 34 10 1.1 1.1 1.1 1.1 1.1 1.1 1.1	256 4063 (1274 1274 14016 1423 645 1.1 1150 238
INCHTING 119 COUPMENT ENS HEAT ATENT HEAT ENTILATION JUTDOOR ART) ENT RATE: COOM AIR ELTA T: 20 C EATING DESIGN DATA RM TEMP: 7 OA TEMP: DELTA T: 6 EATING LOAD: TRANSI ANS (WALL+ROOF):	O WATTS O WATTS BTUH BTUH O CFM O CFM/PE O DEG F O DEG F O DEG F O DEG F	RSON	450 GF 140 TD INFE. HW! RATION 365 BTU 7571 BTU 1258 BTU	RATE: DEL T:			SUB S LATENT COOLING SE LTG&PWR: SH RATIO:	200 0 1 0 0.7 TOTAL= AFETY= FLOAD= UMMARY DA 2.0 W/S 0.985	200 200 200 220 220	SENSIBL SENSIBL LOA CFM IDEX FOR VENT MIN. CODE SUPP IIN. CODE OUTSI	250 0 34 34 10 1.1 1.1 1.1 1.1 1.1 1.1 1.1	256 4063 (1274 1274 14016 1423 645 1.1 1150 238
GHTING 119 OUIPMENT ENS HEAT ATENT HEAT ENTILATION DUTDOOR ARY) ENT RATE: OOOM AIR ELTA T: 20 (EATING DESIGN DATA RM TEMP: 7 OA TEMP: DELTA T: 6 EATING LOAD: TRANSI ANS (WALL+ROOF): ANS (WALL+ROOF): ANS (GLASS+SKYLTE	O WATTS O WATTS BTUH BTUH O CFM O CFMPE O DEG F	RSON	INFL HW I	RATE: DEL T:			SUB S LATENT COOLING SE LTGSPWR: SH RATIO: TONNAGE:	200 0 10 0.7 TOTAL= AFETY= FLOAD= JMMARY DA 2.0 W/S 0.985 1 19	200 200 200 220 220 220	SENSIBL FAL COOLING LOA CFM FIDEX FOR VENTI MIN. CODE SUPP FIN. CODE OUTS: AIR CHANG	250 0 34 34 10 1.1 1.1 1.1 1.1 1.1 1.1 1.1	256 4063 (0
GHTING 119 CUIPMENT ENS HEAT ATENT HEAT ENTILATION COUNTROOR AIR) ENT RATE: COM AIR ELITA T: 20 EATING DESIGN DATA RM TEMP: 7 OA TEMP: DELTA T: 6 EATING LOAD: TRANSI ANS (GLASS-SKYLITE FLITATION (GLASS AF	O WATTS O WATTS BTUH BTUH O CFM O CFMPE O DEG F	ERSON	450 GF 140 TD INFL HW I RATION 355 BTU 1258 BTU 1258 BTU 1994 BTU	RATE: DEL T:			SUB S LATENT COOLING SE LTGSPWR: SH RATIO: TONNAGE:	200 0 1 0 0.7 TOTAL= AFETY= FLOAD= UMMARY DA 2.0 W/S 0.985	200 200 200 220 220 220	SENSIBL FAL COOLING LOA CFM FIDEX FOR VENTI MIN. CODE SUPP FIN. CODE OUTS: AIR CHANG	250 0 3.4 3.4 1.0 1.1 STOTAL= SAFETY= E LOAD= LOAD= LOAD= LOAD= LATION= LY AIR = DE AIR = GESAIR =	256 4063 (1274) 1274 14016 1423 648 1.1 11500 238 71
GHTING 119 CUIPMENT ENS HEAT ATENT HEAT ENTITLATION DUTDOOR ART) ENT RATE: COOM AIR ELTA T: 20 EATING DESIGN DATA RM TEMP: 7 OA TEMP: DELTA T: 6 EATING LOAD: TRANSI ANS (WALL+ROOF): ANS (GLASS+SKYLITE FETY: 10% TAL TRANS & NIFE	O WATTS O WATTS BTUH BTUH O CFM O CFM O DEG F	ERSON INFILT	450 GF 140 TD INFIL HW! RATION 365 BTU 757 BTU 1258 BTU 9194 BTU	RATE: DEL T:			SUB S LATENT COOLING SI LTG&PWR: SH RATIO: TONNAGE:	200 0 1 0 0.7 TOTAL= AFETY= FLOAD= UNMARY DA 2.0 W/S 0.985 1 19 ASSIS: LOA	200 200 200 220 220 220	SENSIBL FAL COOLING LOA CFM FIDEX FOR VENTI MIN. CODE SUPP FIN. CODE OUTS: AIR CHANG	250 0 3.4 3.4 1.0 1.1 STOTAL= SAFETY= E LOAD= LOAD= LOAD= LOAD= LATION= LY AIR = DE AIR = GESAIR =	256 4063 (1274) 1274 14016 1423 648 1.1 11500 238 71
INDEPT OF THE PROPERTY OF THE	O WATTS O WATTS BTUH BTUH O CFM O CFM/PE O DEG F O DEG	INFILT	450 GF 140 TD INFR. HW 1 7571 BT 1258 BTU 9194 BTU 0113 BTU	RATE: DEL T:			SUB S LATENT COOLING SE LTGSPWR: SH RATIO: TONNAGE:	200 0 1 0 0.7 TOTAL= AFETY= FLOAD= UNIMARY DA 2.0 W/S 0.985 1 19 ASSIS: LOA	200 200 200 220 220 220	SUBSENSIBL FAL COOLING LOA CFM IDEX FOR VENTI MIN. CODE SUPP IIN. CODE OUTSI AIR CHANG	250 0 3.4 3.4 10 1.1 TOTAL= SAFETY= E LOAD= USQ FT = LATION= LLY AIR = DE AIR = SESAHR =	1423 649 7.5 649
GHTING 119 CUIPMENT ENS HEAT ATENT HEAT ENTILATION COUNTROOR AIR) ENT RATE: COM AIR CELTA T: 20 EATING DESIGN DATA RM TEMP: 7 OA TEMP: DELTA T: 6 EATING LOAD: TRANSI ANS (GLASS-SKYLITE FETY: 10% TAL TRANS & NIFE ATING LOAD: FORCEE CFM CFM CUITA TO THE TO	O WATTS O WATTS BTUH BTUH O CFM O CFMPE O DEG F O DEG	INFILT	450 GF 140 TD 140 TD	RATE: DEL T:			SUB S LATENT COOLING SI LTG&PWR: SH RATIO: TONNAGE:	200 0 1 0 0.7 TOTAL= AFETY= FLOAD= UNIMARY DA 2.0 W/S 0.985 1 19 ASSIS: LOA	200 200 200 220 220 220	SUBSENSIBL FAL COOLING LOA CFM HDEX FOR VENTI MIN. CODE SUPP HIN. CODE OUTSI AIR CHANC	250 0 3.4 3.4 10 1.1 TOTAL= SAFETY= E LOAD= USQ FT = LATION= LLY AIR = DE AIR = SESAHR =	1423 649 1391
GHTING 119 CUIPMENT ENS HEAT ATENT HEAT ENTILATION CUITOOR AIR) ENT RATE: COOM AIR ELTA T: 20 EATING DESIGN DATA RM TEMP: 7 OA TEMP: DELTA T: 6 EATING LOAD: TRANSI ANS (WALL+ROOF): ANS (GLASS-ISKYLITE FETY: 10% TAL TRANS & NIFE ATING LOAD: FORCED CFM LET 50	O WATTS O WATTS BTUH BTUH O CFM O CFMPE O DEG F O DEG	I INFILT	450 GF 140 TD 140 TD 140 TD 140 TD 150 BTU 1258 BTU 1258 BTU 1258 BTU 113 BTU	RATE: DEL T:			SUB S LATENT COOLING SI LTG&PWR: SH RATIO: TONNAGE:	200 0 1 0 0.7 TOTAL= AFETY= FLOAD= UNIMARY DA 2.0 W/S 0.985 1 19 ASSIS: LOA	200 200 200 220 220 220	SUBSENSIBL FAL COOLING LOA CFM HDEX FOR VENTI MIN. CODE SUPP HIN. CODE OUTSI AIR CHANC	250 0 34 34 10 10 1.1 STOTAL= SAFETY= E LOAD= LO	1274: 1274: 127-1401: 1423: 649: 71: 73: 649:
GHTING 119 CUIPMENT ENS HEAT ATENT HEAT ENTITLATION DUTDOOR ART) ENT RATE: COOM AIR ELTA T: 20 EATING DESIGN DATA RM TEMP: 7 OA TEMP: DELTA T: 6 EATING LOAD: TRANSI ANS (WALL+ROOF): ANS (GLASS+SKYLITE FETY: 10% TAL TRANS & INIFIL ATING LOAD: FORCEL CFM LET CFM LET COUNTY COUNTY CFM LET CFM CUIPMENT CUIPMENT COUNTY COUN	O WATTS O WATTS BTUH BTUH O CFM O CFMPE O DEG F O DEG	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	140 TD INFE. HW ! RATION 365 BTU 3698 BTU 0113 BTU 014	RATE: DEL T:			SUB S LATENT COOLING SI LTG&PWR: SH RATIO: TONNAGE:	200 0 1 0 0.7 TOTAL= AFETY= FLOAD= UNIMARY DA 2.0 W/S 0.985 1 19 ASSIS: LOA	200 200 200 220 220 220	SUBSENSIBL FAL COOLING LOA CFM HDEX FOR VENTI MIN. CODE SUPP HIN. CODE OUTSI AIR CHANC	250 0 34 34 10 10 1.1 STOTAL= SAFETY= E LOAD= LO	1274 1274 1274 1401 1423 649 1.: 1150 234 71
GHTING 119 CUIPMENT ENS HEAT ATENT HEAT ATENT HEAT ENTITLATION JUTDOOR ART) ENT RATE: COOM AIR SELTAT: 20 EATING DESIGN DATA RM TEMP: 7 OA TEMP: DELTAT: 6 EATING LOAD: TRANSI ANS (WALL+ROOF): ANS (GLASS+SKYLITE FETY: 10% TAL TRANS & INIFE ATING LOAD: FORCED CFM LET 50 CHEN 00 NERAL 00	O WATTS O WATTS BTUH BTUH CFM/PE O DEG F O DEG	INFILT	450 GF 140 TD INFR. HW 1 7571 BTU 1258 BTU 9794 BTU 0113 BTU 0113 BTU	RATE: DEL T:			SUB S LATENT COOLING SI LTG&PWR: SH RATIO: TONNAGE:	200 0 1 0 0.7 TOTAL= AFETY= FLOAD= UNIMARY DA 2.0 W/S 0.985 1 19 ASSIS: LOA	200 200 200 220 220 220	SUBSENSIBL FAL COOLING LOA CFM HDEX FOR VENTI MIN. CODE SUPP HIN. CODE OUTSI AIR CHANC	250 0 34 34 10 10 1.1 STOTAL= SAFETY= E LOAD= LO	1274 1274 1274 1401 1423 649 1.: 1150 234 71
GHTING 119 OUIPMENT ENS HEAT ATENT HEAT ENTITLATION DUTDOOR ART) ENT RATE: COOM AIR ELTA T: 20 EATING DESIGN DATA RM TEMP: 7 OA TEMP: DELTA T: 6 EATING LOAD: TRANSI ANS (WALL+ROOF): ANS (GLASS+SKYLITE FETY: 10% TAL TRANS & NIFIL ATING LOAD: FORCE CFM LET 50 CCK 0	O WATTS O WATTS BTUH BTUH O CFM O CFMPE O DEG F O DEG	INFILT	450 GF 140 TD INFIL HW 1 7571 BTU 1258 BTU 9194 BTU 0113 BTU UH 3456 0	RATE: DEL T:			SUB S LATENT COOLING SI LTG&PWR: SH RATIO: TONNAGE:	200 0 1 0 0.7 TOTAL= AFETY= FLOAD= UNIMARY DA 2.0 W/S 0.985 1 19 ASSIS: LOA	200 200 200 220 220 220	SUBSENSIBL FAL COOLING LOA CFM HDEX FOR VENTI MIN. CODE SUPP HIN. CODE OUTSI AIR CHANC	250 0 34 34 10 10 1.1 STOTAL= SAFETY= E LOAD= LO	1274 1274 1274 1401 1423 649 1.: 1150 234 71
GHTING 119 CUIPMENT ENS HEAT ATENT HEAT ENTILATION CUITOOR AIR) ENTILATION CUITOOR AIR) ENTILATE: COOM AIR ELTA T: 20 EATING DESIGN DATA RM TEMP: DELTA T: 6 EATING LOAD: TRANSI ANS (WALL+ROOF): ANS (GLASS-SKYLITE ETTY: 10% TAL TRANS & NIFE ATING LOAD: FORCED CHEN 0 CHEN 0 CK 0 CK 0 CER 0	O WATTS O WATTS BTUH BTUH CFM/PE O DEG F O DEG	I INFILT	## 140 TD INFIL HW ! RATION 385 BTU 1258 BTU 0113 BTU 0113 BTU 010 00 00 00 00 00 00 00 00 00 00 00 00	RATE: DEL T:			SUB S LATENT COOLING SI LTG&PWR: SH RATIO: TONNAGE:	200 0 1 0 0.7 TOTAL= AFETY= FLOAD= UNIMARY DA 2.0 W/S 0.985 1 19 ASSIS: LOA	200 200 200 220 220 220	SUBSENSIBL FAL COOLING LOA CFM HDEX FOR VENTI MIN. CODE SUPP HIN. CODE OUTSI AIR CHANC	250 0 34 34 10 10 1.1 STOTAL= SAFETY= E LOAD= LO	1274 1274 1274 1401 1423 649 1.: 1150 234 71
GHTING 119 CUIPMENT ENS HEAT ATENT HEAT ENTITLATION JUIDOOR ART) ENT RATE: OOM AIR ELTA T: 20 EATING DESIGN DATA RM TEMP: 7 OA TEMP: DELTAT: 6 EATING LOAD: TRANSI ANS (WALL+ROOF): ANS (GLASS+SKYLITE ILTRATION (GLASS AI BE TOTAL: FETY: 10% TAL TRANS & INIFE ATING LOAD: FORCEE CFM LET 00 CHEN 00 NERAL 0 OCK 0 OFER 0 TAL	O WATTS O WATTS BTUH BTUH O CFM O CFMPE O DEG F O DEG	I INFILT	## 140 TD INFIL HW ! RATION 365 BTU 7571 BTU 19794 BTU 0113 BTU 01 3456 0 0 0 0 3456 BTU	RATE: DEL T: THUM			SUB S LATENT COOLING SI LTG&PWR: SH RATIO: TONNAGE:	200 0 1 0 0.7 TOTAL= AFETY= FLOAD= UNIMARY DA 2.0 W/S 0.985 1 19 ASSIS: LOA	200 200 200 220 220 220	SUBSENSIBL FAL COOLING LOA CFM HDEX FOR VENTI MIN. CODE SUPP HIN. CODE OUTSI AIR CHANC	250 0 34 34 10 10 1.1 STOTAL= SAFETY= E LOAD= LO	1274 1274 1274 1401 1423 649 1.: 1150 234 71
GHTING 119 CUIPMENT ENS HEAT ATENT HEAT ENTITATION AUTDOOR AIR) ENTIT RATE: COOM AIR ELTA T: 20 (COOK) EATING DESIGN DATA RM TEMP: OA TEMP: DELTA T: 6 ATING LOAD: TRANSI ANS (WALL+ROOF): ANS (GLASS-SAVI) TE ELTATION (GLASS AI B TOTAL: ETTY: 10% TAL TRANS & NIFE ATING LOAD: FORCED CHEN 0 CHEN 0 CK 0 CER 0	O WATTS O WATTS BTUH BTUH O CFM O CFMPE O DEG F O DEG	INFILT	## 140 TD INFIL HW ! RATION 385 BTU 1258 BTU 0113 BTU 0113 BTU 010 00 00 00 00 00 00 00 00 00 00 00 00	RATE: DEL T:			SUB S LATENT COOLING SI LTG&PWR: SH RATIO: TONNAGE:	200 0 1 0 0.7 TOTAL= AFETY= FLOAD= UNIMARY DA 2.0 W/S 0.985 1 19 ASSIS: LOA	200 200 200 220 220 220	SUBSENSIBL FAL COOLING LOA CFM HDEX FOR VENTI MIN. CODE SUPP HIN. CODE OUTSI AIR CHANC	250 0 34 34 10 10 1.1 STOTAL= SAFETY= E LOAD= LO	1274 1277 1401 1423 644 1.1150 233 77.71 648

ORIGINAL-KEEP IN FILE

			• • • •	0						es	ssociat	Lilker A
lation	d Calcula	eating Load	ng & He	Coolin								
	88 LEONARI	-									gineers, P C	Consulting En 1001 Avenue
YORK, N											10018	New York, N Y
												212 895-1000
•												PROJECT:
	Jan-04	DATE: 19-	f 7	2 W/SF	LIGHTING:			***	×	FT	10	DIMENSIONS
	1	FLOOR #: 3-8		0 W	POWER:	1	FT	350 0	^	SF		FLOOR AREA
-	24	APT #:		1 PEOI	PEOPLE.					FT	14.5	CEILING HT:
		1		74 DEG	RM TEMP: S.A. TEMP:	1			P			INTERIOR/PE
			,	54 DEG	OA. IEMP.							
		TRANSMISSION				SOLAR						ENVELOPE D
вти	-	CLTD	BTUH	SHGF	CUF	SC	NETSF	WTH	нт	NUM	EXP	
									-		N	WALL
6	0.10	110	- 1					14.8	8.7	!	N	GLASS
64	0.85	150	1088	35	0.82	0 57		9.5	70	:	E	WALL
	0.10	180						0.0	87	0	Ē	GLASS
	0.65	7.0	0	216	0.76	0.57		50	7.0	0	S	WALL
	0.10	18.0						0.0	8.7	0	S	GLASS
	0.65	160	0	149	0 82	0 57		0.0	70	0	w	WALL
	0.10	18.0						0.0	87		w	GLASS
	0.65	17.0	١٠	216	0 82	0.57		0 0	70	0	**	ROOF
	0.20	43.0	-					0.0	00	0		SKYLIGHT
	2.00	2	اه	247	0 85	1 00		0 0	00	0		FLOOR
	000	1 6	٦,					0.0	00	0		PARTITION
	000		- 1			1		0.0	00	0		CEILING
	000						L	0.0	00	0	No beau	TOTAL AREA
_										LIEKS		WALL AREA
-	TOTAL=	SUE	1088	OTAL=	SUB						GLASS	
		ERNAL LOAD	EXT							l	AREA (SF)	(SF)
180												
180]	67	
]		
180		SENSIBLE LOAD		ATAN		LATENT (CLF] •		NTERNAL CO
180 BTC	FACTOR	SENSIBLE LOAD	втон	CTOR		LATENT (CLF 1.00		PEOPLE	OLING LOA	NTERNAL CO
180		SENSIBLE LOAD	BTUH 200	CTOR 200 0		LATENT I		1.00			OLING LOA	MTERNAL CO DOCUPANTS JIGHTING
180 BTC	FACTOR 250 0 3 4	SENSIBLE LOAD				LATENT (1.00		PEOPLE	OLING LOAD	NTERNAL CO DCCUPANTS LIGHTING EQUIPMENT
180 810 25	250 0 3 4 3 4	SENSIBLE LOAD				LATENT (1.00 1.00 1.00		PEOPLE WATTS	0LING LOA 1 700 0	NTERNAL CO DOCUPANTS LIGHTING EQUIPMENT SENS HEAT
180 810 25 239	FACTOR 250 0 3 4	SENSIBLE LOAD	200	200 0		LATENT (1.00		PEOPLE WATTS WATTS	0LING LOA 1 700 0	NTERNAL CO DCCUPANTS LIGHTING EQUIPMENT
8TC 25 239	250 0 3 4 3 4	SENSIBLE LOAD				LATENT		1.00 1.00 1.00 1.00		PEOPLE WATTS WATTS BTUH	0LING LOA 1 700 0	NTERNAL CO OCCUPANTS IGHTING EQUIPMENT SENS HEAT ATENT HEAT
8TC 25 239	250 0 3 4 3 4	SENSIBLE LOAD	200	1.0		LATENT		1.00 1.00 1.00 1.00	450	PEOPLE WATTS WATTS BTUH	0LING LOA 1 700 0	MTERNAL CO DOCCUPANTS LIGHTING EQUIPMENT SENS HEAT ATENT HEAT
180 810 25 239	250 0 3 4 3 4 1 0	SENSIBLE LOAD	200	200 0		LATENT		1.00 1 00 1 00 1 00 1 00	45 0 14 0	PEOPLE WATTS WATTS BTUH BTUH	0LING LOA 1 700 0	MTERNAL CO DECUPANTS LIGHTING EQUIPMENT SENS HEAT ATENT HEAT VENTILATION OUTDOOR AIR
180 810 25 239	FACTOR 250 0 3 4 3 4 1 0		200	1.0		LATENT		1.00 1 00 1 00 1 00 1 00	14 0	PEOPLE WATTS WATTS BTUH BTUH	1 700 0	NTERNAL CO OCCUPANTS JOHTING EQUIPMENT SENS HEAT ATENT HEAT VENTILATION OUTDOOR AIR VENT RATE:
180 8TC 25 239	250 0 34 34 10	sue	200	1.0 07	SUB	LATENT		1.00 1 00 1 00 1 00 1 00	14 0	PEOPLE WATTS WATTS BTUH BTUH	1 700 0	NTERNAL CO DCCUPANTS LIGHTING EQUIPMENT SENS HEAT ATENT HEAT PENTITATION OUTLANDOR AIR VENT RATE: ROOM AIR
180 810 25 235	250 0 34 34 10 11 3 TOTAL= 8AFETY=	SUE	200 0	1.0 07 OTAL=	SUB	LATENT		1.00 1 00 1 00 1 00 1 00	14 0	PEOPLE WATTS WATTS BTUH BTUH	0 OLING LOAD	NTERNAL CO OCCUPANTS JOHTING EQUIPMENT SENS HEAT ATENT HEAT VENTILATION OUTDOOR AIR VENT RATE:
180 8TC 25 239	250 0 34 34 10	SUE	200	1.0 07 OTAL=	SUB	LATENT		1.00 1 00 1 00 1 00 1 00	14 0	PEOPLE WATTS WATTS BTUH BTUH CFM	0 OLING LOAD	NTERNAL CO DCCUPANTS LIGHTING EQUIPMENT SENS HEAT ATENT HEAT PENTITATION OUTLANDOR AIR VENT RATE: ROOM AIR
180 810 25 235	250 0 34 34 10 11 3 TOTAL= 8AFETY=	SUE	200 0 200 20 220	1.0 07 OTAL= ETY= CAD=	SUB S LATEN	LATENT		1.00 1 00 1 00 1 00 1 00	14 0	PEOPLE WATTS WATTS BTUH BTUH CFM	0 0 20 0	NTERNAL CO DCCUPANTS IGHTING COUPMENT SENS HEAT ATENT HEAT PENTILATION OUTDOOR AIR VENT RATE: ROOM AIR DELTA T:
180 810 25 235	250 0 3 4 3 4 1 0 1 1 3 TOTAL= 8AFETY= E LOAD=	SUE SENSIBL	200 0 200 200 220	1.0 07 OTAL=	SUB S LATEN	LATENT		1.00 1 00 1 00 1 00 1 00	14 0	PEOPLE WATTS WATTS BTUH BTUH CFM CFMPERSO DEG F	0 0 0 20 0 GN DATA	NTERNAL CO DCCUPANTS LIGHTING EQUIPMENT SENS HEAT ATENT HEAT PENTITATION OUTLANDOR AIR VENT RATE: ROOM AIR
180 810 25 235	250 0 3 4 3 4 1 0 1 1 3 TOTAL= 8AFETY= E LOAD=	SUE	200 0 200 200 220	1.0 07 OTAL= ETY= CAD=	SUB S LATEN			1.00 1 00 1 00 1 00 1 00 TD	14 0 ON	PEOPLE WATTS WATTS BTUH BTUH CFM CFMPERSO DEG F	0 0 20 0 GN DATA	INTERNAL CO DECUPANTS IGHTING COUIPMENT SENS HEAT ATENT HEAT PENTILATION OUTDOOR AIR OUTDOOR AIR
180 810 25 239 444 44 485	250 0 3 4 3 4 1 0 1 1 3 TOTAL= 8AFETY= E LOAD=	SENSIBL	200 0 200 200 220	1.0 07 OTAL= ETY= CAD=	SUB S LATEN	FMSF		1.00 1 00 1 00 1 00 1 00 1 00 GR/LB	14 0 ON	PEOPLE WAITS WAITS BTUH BTUH CFM CFMPERSO DEG F DEG F DEG F	0 0 0 20 0 GRI DATA	INTERNAL CO DCCUPANTS LIGHTING EQUIPMENT SENS HEAT ATENT HEAT VENTILATION OUTDOOR AIR VENTI RATE: ROOM AIR DELTA T: LEATING DESI RM TEMP: OA. TEMP:
180 810 25 239 444 488	250 0 34 34 10 11 3 TOTAL= 8AFETY= E LOAD= NO CFM =	SENSIBL	200 0 200 200 220	1.0 07 OTAL= ETY= CAD=	SUB S LATENT COOLING S			1.00 1 00 1 00 1 00 1 00 TD	14 0 ON	PEOPLE WATTS WATTS BTUH BTUH CFM CFMPERSO DEG F	0 0 0 20 0 GRI DATA	INTERNAL CO DCCUPANTS LIGHTING EQUIPMENT SENS HEAT ATENT HEAT VENTEATION OUTLANDOR AIR VENT RATE: ROOM AIR DELTA T: LEATING DESI
180 25 239 444 44 488	250 0 34 34 10 10 11 3 TOTAL= 8AFETY= E LOAD=	SENSIBL SENSIBL TAL COOLING LOV	200 	1.0 07 OTAL= ETY= OAD=	SUB S LATENT COOLING S LTG&PWR: SH RATIO:	FMSF		1.00 1 00 1 00 1 00 1 00 5 TD GR/LB TD	INF	PEOPLE WATTS WATTS BTUH BTUH CFM CFMPERSO DEG F DEG F DEG F DEG F	0 0 20 0 GN DATA 70 6 6 64 1	INTERNAL CO DECUPANTS IGHTING COUIPMENT SENS HEAT ATENT HEAT PENTILATION OUTDOOR AIR DELTA T: EATING DESI RM TEMP: O.A. TEMP: DELTA T:
180 25 239 444 44 488 510 20 676	250 0 34 34 10 11 3 TOTAL= 8AFETY= E LOAD= LOAD= MSQ FT = BLATION=	SENSIBL TAL COOLING LOV CFW RIDEX FOR VENT	200 	1.0 OTAL= TETY= CAD= UMARY DATA	SUB S LATENT COOLING S	FMSF		1.00 1 00 1 00 1 00 1 00 1 00 GR/LB TD	INF	PEOPLE WATTS WATTS BTUH BTUH CFM CFMPERSO DEG F DEG F DEG F DEG F	0 0 0 20 0 GR DATA 70 6 6 64 0 0 1 TRANSMI	INTERNAL CO DCCUPANTS LIGHTING EQUIPMENT SENS HEAT ATENT HEAT VENTICATION OUTLOOK AIR DELTA T: LEATING DESI RM TEMP: OA. TEMP: DELTA T:
180 810 25 239 444 44 485 510 22 0 676	250 0 3 4 3 4 1 0 1 1 3 TOTAL= 8AFETY= E LOAD= MSQ FT = M	SENSIBL SENSIBL TAL COOLING LO/ CFM NDEX FOR VENTI MIN. CODE SUPP	200 0 200 20 220	1.0 OTAL= TETY= CAD= IMARY DATA 2.0 W/SF	SUB S LATENT COOLING S LTG&PWR: SH RATIO:	FMSF		1.00 1 00 1 00 1 00 1 100 GRALB TD	INF H FILTRATIO 395	PEOPLE WATTS WATTS BTUH BTUH CFM CFMPERSO DEG F DEG F DEG F DEG F	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NTERNAL CO DECUPANTS IGHTING COUPMENT SENS HEAT ATENT HEAT ATENT HEAT ATENT RATE: ROOM AR DELTA T: REATING DESI DELTA T: EATING LEAT DELTA T: EATING LOAD RANS (WALL-
180 25 239 444 465 510 22 0 676 44	250 0 3 4 3 4 1 0 1 1 0 1 1 1 3 TOTAL = 8AFETY = E LOAD = NO CFM = MSQ FT = ILATION = PLY AIR = IDE AIR =	SENSIBL TAL COOLING LOV CFN MIDEX FOR VENIT MIN. CODE SUPP MIN. CODE OUTS	200 0 200 20 220	1.0 OTAL= TETY= CAD= IMARY DATA 2.0 W/SF	SUB S LATENT COOLING SI LTG&PWR: SH RATIO:	FMSF		1.00 1 00 1 00 1 00 1 00 1 00 GRALB TD	INF INF H FILTRATIC 395 2766	PEOPLE WAITS WAITS BTUH BTUH CFM CFM DEG F DEG F DEG F DEG F SSION & INF	0 OLING LOAD 1 700 0 0 20 0 GN DATA 70 6 6 6 4 10 0: TRANSMI: *SKYLITE: *SKYLITE: *SKYLITE:	INTERNAL CO DECUPANTS IGHTING COUPMENT SENS HEAT ACTENT HEAT VENTILATION OUTDOOR AIR OUTDOOR OUTDO
180 810 25 239 444 44 485 510 22 0 676	250 0 3 4 3 4 1 0 1 1 0 1 1 1 3 TOTAL = 8AFETY = E LOAD = NO CFM = MSQ FT = ILATION = PLY AIR = IDE AIR =	SENSIBL SENSIBL TAL COOLING LO/ CFM NDEX FOR VENTI MIN. CODE SUPP	200 0 200 20 220	1.0 OTAL= TETY= CAD= IMARY DATA 2.0 W/SF	SUB S LATENT COOLING SI LTG&PWR: SH RATIO:	FMSF		1.00 1 00 1 00 1 00 1 00 1 00 1 00 1 00	14 0 ON INF H FILTRATIC 395 2766 460	PEOPLE WAITS WAITS BTUH BTUH CFM CFM DEG F DEG F DEG F DEG F SSION & INF	0 OLING LOAD 1 700 0 0 20 0 GN DATA 70 6 6 6 4 10 0: TRANSMI: *SKYLITE: *SKYLITE: *SKYLITE:	INTERNAL CO DECUPANTS JEGHTING COUPMENT SENS HEAT ATENT HEAT ATENT HEAT ATENT HEAT ATENT HEAT ATENT HEAT ENTIRATION OUTDOOR AIR DELTA T: EATING DESN RM TEMP: DELTA T: EATING LOAD RANS (WALL+ RANS (GLASS IFILTRANON (
180 25 239 444 465 510 22 0 676 44	250 0 3 4 3 4 1 0 1 1 0 1 1 1 3 TOTAL = 8AFETY = E LOAD = NO CFM = MSQ FT = ILATION = PLY AIR = IDE AIR =	SENSIBL TAL COOLING LOV CFN MIDEX FOR VENIT MIN. CODE SUPP MIN. CODE OUTS	200 0 200 20 220	1.0 OTAL= TETY= CAD= IMARY DATA 2.0 W/SF	SUB S LATENT COOLING SI LTG&PWR: SH RATIO:	FMSF		1.00 1 00 1 00 1 00 1 00 1 00 1 00 1 00	14 0 ON INF H FILTRATIC 395 2766 460 3621	PEOPLE WAITS WAITS BTUH BTUH CFM CFM DEG F DEG F DEG F DEG F SSION & INF	OLING LOAD 1 700 0 0 20 0 GN DATA 70 6 6 4 1 1 1 1 1 1 1 1 1	INTERNAL CO DOCUPANTS JIGHTING COUJPMENT SENS HEAT ATENT HEAT VENTILATION OUTDOOR AIR OELTA T: JEATING DESI RM TEMP: DELTA T: EATING LOAD RANS (WALL+ RANS (WALL+ RANS (GLASS) FILTRATION (UB TOTAL:
180 25 239 444 444 488 510 22 0 678 14	FACTOR 250 0 3 4 3 4 1 0 1 1 3 TOTAL= SAFETY= E LOAD= LOAD= MSQ FT = ILATION= PLY AIR = IDE AIR = JESHR =	SENSIBL TAL COOLING LOV CFM MIDEX FOR VENTI MIN. CODE SUPE MIN. CODE OUTS AIR CHANCE	200 0 200 20 220	200 0 1.0 0 7 DTAL= ETY= CAD= IMARY DATA 2 0 W/SF 0 957 0 43	SUB S LATENT COOLING SI LTG&PWR: SH RATIO: TONNAGE:	FMSF		1.00 1 00 1 00 1 00 1 00 1 00 1 00 1 00	14 0 ON INF H FILTRATIC 395 2766 460 3621	PEOPLE WAITS WAITS BTUH BTUH CFM CFM DEG F DEG F DEG F DEG F SSION & INF	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	INTERNAL CO DOCUPANTS JEGHTING EQUIPMENT SENS HEAT ATENT HEAT VENTILATION OUTLOOR AIR OUTL
180 25 239 444 465 510 22 0 676 44	250 0 3 4 3 4 1 0 1 1 0 1 1 1 3 TOTAL = 8AFETY = E LOAD = NO CFM = MSQ FT = ILATION = PLY AIR = IDE AIR =	SENSIBL TAL COOLING LOV CFM MIDEX FOR VENTI MIN. CODE SUPE MIN. CODE OUTS AIR CHANCE	200 0 200 20 220	1.0 OTAL= TETY= CAD= IMARY DATA 2.0 W/SF	SUB S LATENT COOLING SI LTG&PWR: SH RATIO: TONNAGE:	FMSF		1.00 1 00 1 00 1 00 1 00 1 00 1 00 1 00	14 0 ON INF H FILTRATIC 395 2766 460 3621	PEOPLE WAITS WAITS BTUH BTUH CFM CFM DEG F DEG F DEG F DEG F SSION & INF	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	INTERNAL CO DOCUPANTS JIGHTING COUJPMENT SENS HEAT ATENT HEAT VENTILATION OUTDOOR AIR OELTA T: JEATING DESI RM TEMP: DELTA T: EATING LOAD RANS (WALL+ RANS (WALL+ RANS (GLASS) FILTRATION (UB TOTAL:
180 25 239 444 444 488 510 22 0 678 14	FACTOR 250 0 3 4 3 4 1 0 1 1 3 TOTAL= SAFETY= E LOAD= LOAD= MSQ FT = ILATION= PLY AIR = IDE AIR = JESHR =	SENSIBL TAL COOLING LOV CFM MIDEX FOR VENTI MIN. CODE SUPE MIN. CODE OUTS AIR CHANCE	200 0 200 20 220	200 0 1.0 0 7 DTAL= ETY= CAD= IMARY DATA 2 0 W/SF 0 957 0 43	SUB S LATENT COOLING SI LTG&PWR: SH RATIO: TONNAGE:	FMSF		1.00 1 00 1 00 1 00 1 00 1 00 1 00 1 00	14 0 ON INF H FILTRATIC 3766 460 3621 3621 3623	PEOPLE WAITS WAITS BTUH BTUH CFM CFM/PERSO DEG F DEG F DEG F DEG F SSION & INF	OLING LOAD 1 700 0 0 20 0 GN DATA 70 6 6 64 1 0: TRANSMI: *SKYLITE; GLASS ARE 10% & INIFIL	INTERNAL CO DECUPANTS IGHTING COUPMENT SENS HEAT ACTENT HEAT PENTILATION OUTDOOR AIR OUTDOOR OUTDO
180 25 239 444 444 488 510 22 0 678 14	FACTOR 250 0 3 4 3 4 1 0 1 1 3 TOTAL= SAFETY= E LOAD= LOAD= MSQ FT = ILATION= PLY AIR = IDE AIR = JESHR =	SENSIBL TAL COOLING LOV CFN MIDEX FOR VENTI MIN. CODE SUPF MIN. CODE OUTS AIR CHANC	200 0 200 200 220	200 0 1.0 0 7 DTAL= ETY= CAD= IMARY DATA 2 0 W/SF 0 957 0 43	SUB S LATENT COOLING S LTG&PWR: SH RATIO: TONNAGE:	FMSF		1.00 1 00 1 00 1 00 1 00 1 00 1 00 1 00	14 0 ON INF H FILTRATIC 3766 460 3621 3621 3983	PEOPLE WAITS WAITS BTUH BTUH CFM CFM CFM DEG F DEG F	OLING LOAD 1 700 0 0 20 0 GN DATA 70 6 6 6 4 1 C: TRANSMI: ROOF: *SKYLITE; GLASS ARE 10% & INIFIL	INTERNAL CO DOCUPANTS JEGHTING EQUIPMENT SENS HEAT ATENT HEAT VENTILATION OUTLOOR AIR OUTL
180 810 25 239 444 444 488 510 20 676 14 4 5	FACTOR 250 0 3 4 3 4 1 0 1 1 3 TOTAL= 8AFETY= E LOAD= LOAD= AD CFM = MAQ FT = ILATION= PLY AIR = IDE AIR = 3ESAHR =	SENSIBL TAL COOLING LOV COPY MIN. CODE SUPP MIN. CODE OUTS AIR CHANC	200 0 200 200 220	200 0 1.0 07 OTAL= TETY= CAD= IMARY DATA 2 0 W/SF 0 957 0 43	SUB S LATENT COOLING S LTG&PWR: SH RATIO: TONNAGE:	FMSF		1.00 1 00 1 00 1 00 1 00 1 00 1 00 1 00	14 0 ON INF H FILTRATIC 3766 460 3521 362 1 3983 T	PEOPLE WATTS WATTS BTUH BTUH CFM CFMPERSO DEG F DEG F DEG F SSION & INF	OLING LOAD 1 700 0 0 20 0 GN DATA 70 6 6 6 6 6 6 6 6 6	INTERNAL CO DOCUPANTS JEGHTING COUJPMENT SENS HEAT ATENT HEAT PENTILATION OUTDOOR AIR DELTA T: EATING DESI RM TEMP: DELTA T: EATING LOAD RANS (WALL+ RANS (WALL+ RANS (MALL+
180 810 25 239 444 444 488 510 22 0 676 14 4 5	FACTOR 250 0 3 4 3 4 1 0 1 1 3 TOTAL= SAFETY= E LOAD= AD CFM = MSQ FT = MSQ	SENSIBLE SENSIBLE COOLING LOVER COOLING MIN. CODE SUPPRIMIN. CODE SUPPRIMIN. CODE OUTS AIR CHANCE FINAL	200 0 200 200 220	200 0 1.0 07 OTAL= TETY= CAD= IMARY DATA 2 0 W/SF 0 957 0 43	SUB S LATENT COOLING S LTG&PWR: SH RATIO: TONNAGE:	FMSF		1.00 1 00 1 00 1 00 1 00 1 00 1 00 1 00	14 0 ON INF H	PEOPLE WATTS WATTS BTUH BTUH CFM CFM/PERSO DEG F DEG F DEG F DEG F SSION & INF	OLING LOAD 1 700 0 0 0 20 0 GN DATA 70 6 6 64 1 E TRANSMII ROOF): *SKYLITE): GLASS ARE 10% & INIFIL : FORCED 1 CFM 50	INTERNAL CO DOCUPANTS JEGHTING EQUIPMENT SENS HEAT ATENT HEAT VENTIATION OUTLOOR AIR VENTI RATE: ROOM AIR DELTA T: LEATING DESH RM TEMP: DELTA T: LEATING LOAD RANS (WALL+ RANS (WALL+ RANS (GLASS IFILITATION (IFILITATION (IFILITATION) OTHER TOTAL: LEATING LOAD OTHER TOTAL OTHER TOTAL DELTA T: LEATING LOAD OTHER TOTAL OTHER TOTAL DELTA TRANS
180 810 25 239 444 444 488 510 20 676 14 4 5	FACTOR 250 0 3 4 3 4 1 0 1 1 3 TOTAL= 8AFETY= E LOAD= LOAD= AD CFM = MAQ FT = ILATION= PLY AIR = IDE AIR = 3ESAHR =	SENSIBLE SENSIBLE COOLING LOVER COOLING MIN. CODE SUPPRIMIN. CODE SUPPRIMIN. CODE OUTS AIR CHANCE FINAL	200 0 200 20 220 A	200 0 1.0 07 OTAL= TETY= CAD= IMARY DATA 2 0 W/SF 0 957 0 43	SUB S LATENT COOLING S LTG&PWR: SH RATIO: TONNAGE:	FMSF		1.00 1 00 1 00 1 00 1 00 1 00 1 00 1 00	14 0 ON INF H	PEOPLE WAITS WAITS BTUH BTUH CFM CFM/PERSO DEG F DEG	OLING LOAD 1 700 0 0 0 20 0 GN DATA 70 6 6 64 E: TRANSMII: ROOF): SKYLITE): GLASS ARE 10% E INIFIL : FORCED I CFM 50 100	INTERNAL CO DECCUPANTS IGHTING COUPMENT SENS HEAT ATENT HEAT VENTILATION OUTDOOR AIR VENT RATE: ROOM AIR DELTA T: EATING DESI RM TEMP: DELTA T: EATING LOAD RAMS (GLASS IFILTRATION (UB TOTAL: AFETY: DTAL TRANS EATING LOAD DILET TCHEN
180 810 25 239 444 444 488 510 22 0 676 14 4 5	FACTOR 250 0 3 4 3 4 1 0 1 1 3 TOTAL= SAFETY= E LOAD= AD CFM = MSQ FT = MSQ	SENSIBLE SENSIBLE COOLING LOVER COOLING MIN. CODE SUPPRIMIN. CODE SUPPRIMIN. CODE OUTS AIR CHANCE FINAL	200 0 200 20 220 A	200 0 1.0 07 OTAL= TETY= CAD= IMARY DATA 2 0 W/SF 0 957 0 43	SUB S LATENT COOLING S LTG&PWR: SH RATIO: TONNAGE:	FMSF		1.00 1 00 1 00 1 00 1 00 1 00 1 00 1 00	14 0 ON INF H	PEOPLE WAITS WAITS BTUH BTUH CFM CFM/PERSO DEG F DEG	OLING LOAD 1 700 0 0 20 0 GN DATA 70 6 6 64 1 P: TRANSMI: ROOF): *SKYLITE): GLASS ARE 10% & INIFIL : FORCED 1 CFM: 50 100 0	INTERNAL CO DECUPANTS JEGHTING COUPMENT SENS HEAT ACTENT HEAT PENTILATION OUTDOOR AIR DELTA T: EATING DESN RM TEMP: DELTA T: EATING LOAD RANS (GLASS JFILTRATION (UB TOTAL: AFETY: DTAL TRANS EATING LOAD DILET TCHEN ENERAL
180 810 25 239 444 444 488 510 22 0 676 14 4 5	FACTOR 250 0 3 4 3 4 1 0 1 1 3 TOTAL= SAFETY= E LOAD= AD CFM = MSQ FT = MSQ	SENSIBLE SENSIBLE COOLING LOVER COOLING MIN. CODE SUPPRIMIN. CODE SUPPRIMIN. CODE OUTS AIR CHANCE FINAL	200 0 200 20 220 A	200 0 1.0 07 OTAL= TETY= CAD= IMARY DATA 2 0 W/SF 0 957 0 43	SUB S LATENT COOLING S LTG&PWR: SH RATIO: TONNAGE:	FMSF		1.00 1 00 1 00 1 00 1 00 1 00 1 00 1 00	14 0 ON INF H	PEOPLE WATTS WATTS BTUH BTUH CFM CFMPERSO DEG F DEG F DEG F SSION & INF EA): NFILTRATIO FACTOR 1 08 1 08 1 08	OLING LOAD 1 700 0 0 20 0 GN DATA 70 6 6 64 1 E: TRANSMI: ROOF): SKYLITE): GLASS ARE 10% & INIFIL : FORCED I CFM 0 0 0 0	INTERNAL CO DECUPANTS JIGHTING COUJPMENT JENT SENS HEAT ATENT HEAT JENTILATION OUTDOOR AIR DELTA T: EATING DESI RM TEMP: DELTA T: EATING LOAD RANS (WALL+ RANS (GLAS) JENT RATON (UB TOTAL: AFETY: DTAL TRANS EATING LOAD DILET TCHEN ENERAL JACK
180 810 25 239 444 444 488 510 22 0 676 14 4 5	FACTOR 250 0 3 4 3 4 1 0 1 1 3 TOTAL= SAFETY= E LOAD= AD CFM = MSQ FT = MSQ	SENSIBLE SENSIBLE COOLING LOVER COOLING MIN. CODE SUPPRIMIN. C	200 0 200 20 220 A	200 0 1.0 07 OTAL= TETY= CAD= IMARY DATA 2 0 W/SF 0 957 0 43	SUB S LATENT COOLING S LTG&PWR: SH RATIO: TONNAGE:	FMSF		1.00 1 00 1 00 1 00 1 00 1 00 1 00 1 00	14 0 ON INF H	PEOPLE WATTS WATTS BTUH BTUH CFM CFM/PERSO DEG F DEG	OLING LOAD 1 700 0 0 20 0 GN DATA 70 6 6 64 1 P: TRANSMI: ROOF): *SKYLITE): GLASS ARE 10% & INIFIL : FORCED 1 CFM: 50 100 0	INTERNAL CO DOCCUPANTS JIGHTING GOUIPMENT SENS HEAT ATENT HEAT JENTILATION OUTDOOR AIR DELTA T: EATING DESI RM TEMP: DELTA T: EATING LOAD RANS (WALL+ RANS (WALL
180 810 25 239 444 444 488 510 22 0 676 14 4 5	FACTOR 250 0 3 4 3 4 1 0 1 1 3 TOTAL= SAFETY= E LOAD= AD CFM = MSQ FT = MSQ	SENSIBLE SENSIBLE COOLING LOVER COOLING MIN. CODE SUPPRIMIN. C	200 0 200 20 220 A	200 0 1.0 07 OTAL= TETY= CAD= IMARY DATA 2 0 W/SF 0 957 0 43	SUB S LATENT COOLING S LTG&PWR: SH RATIO: TONNAGE:	FMSF		1.00 1 00 1 00 1 00 1 00 1 00 1 00 TO GRULB TO	14 0 ON INF H FILTRATIC 3766 450 3521 3983 ON BTUH 3456 6912 0	PEOPLE WATTS WATTS BTUH BTUH CFM CFMPERSO DEG F DEG F DEG F SSION & INF EA): NFILTRATIO FACTOR 1 08 1 08 1 08	OLING LOAD 1 700 0 0 20 0 GN DATA 70 64 1: TRANSMII: ROOF): *SKYLITE): GLASS ARE 10% E INIFIL FORCED I CFM 50 100 0 0	INTERNAL CO DECCUPANTS IGHTING COUPMENT SENS HEAT ATENT HEAT COUNT AND
180 810 25 239 444 444 488 510 22 0 676 14 4 5	FACTOR 250 0 3 4 3 4 1 0 1 1 3 TOTAL= SAFETY= E LOAD= AD CFM = MSQ FT = MSQ	SENSIBLE SENSIBLE COOLING LOVER COOLING MIN. CODE SUPPRIMIN. C	200 0 200 20 220 A	200 0 1.0 07 OTAL= TETY= CAD= IMARY DATA 2 0 W/SF 0 957 0 43	SUB S LATENT COOLING S LTG&PWR: SH RATIO: TONNAGE:	FMSF		1.00 1 00 1 00 1 00 1 00 1 00 1 00 TO GRICE TO GRICE TO STUH STUH STUH STUH STUH STUH STUH	14 0 ON INF H	PEOPLE WATTS WATTS BTUH BTUH CFM CFMPERSO DEG F DEG F DEG F SSION & INF EA): NFILTRATIO FACTOR 1 08 1 08 1 08 1 08	OLING LOAD 1 700 0 0 20 0 GN DATA 70 6 6 64 1 CTRANSMI: ROOF): SKYLITE; GLASS ARE 10% 10% 100 0 0 0 0	INTERNAL CO DICCUPANTS JIGHTING COUPMENT SENS HEAT ACTENT HEAT PENTILATION OUTDOOR AIR DELTA T: EATING DESK RM TEMP: DELTA T: EATING LOAD RANS (GLASS IFILTRATION (UB TOTAL: AFETY: DTAL TRANS EATING LOAD DILET TCHEN ENERAL FACK RYER DTAL FETY.
180 810 25 239 444 444 488 510 22 0 676 14 4 5	FACTOR 250 0 3 4 3 4 1 0 1 1 3 TOTAL= SAFETY= E LOAD= AD CFM = MSQ FT = MSQ	SENSIBLE SENSIBLE COOLING LOVER COOLING MIN. CODE SUPPRIMIN. C	200 0 200 20 220 A	200 0 1.0 07 OTAL= TETY= CAD= IMARY DATA 2 0 W/SF 0 957 0 43	SUB S LATENT COOLING S LTG&PWR: SH RATIO: TONNAGE:	FMSF		1.00 1 00 1 00 1 00 1 00 1 00 1 00 1 00	14 0 ON INF H	PEOPLE WATTS WATTS BTUH BTUH CFM CFMPERSO DEG F DEG F DEG F SSION & INF EA): NFILTRATIO FACTOR 1 08 1 08 1 08 1 08	OLING LOAD 1 700 0 0 20 0 GN DATA 70 6 6 64 1 CTRANSMI: ROOF): SKYLITE; GLASS ARE 10% 10% 100 0 0 0 0	INTERNAL CO DECCUPANTS IGHTING COUPMENT SENS HEAT ATENT HEAT COUNT AND

Printed on 10'24/2006 at 8 48 AM

F:88 LEANARD\ 198 Leonard HVAC Load Calculators Edison Parlon

ORIGINAL-KEEP IN FILE Lilker Associates Cooling & Heating Load Calculations nsulting Engineers, P C 88 LEONARD STREET 1001 Avenue of the Am NEW YORK, NY W York, N Y 10018 212 695-1000 PROJECT: LIGHTING: DATE: 19-Jan-04 WISI DIMENSIONS 1.0 FT × 505 0 FT POWER: 0 W FLOOR #: 3-8 FLOOR AREA: 595 SF PEOPLE PEOPLE: APT #: 25 CEILING HT: 9 33 FT DEG. F INTERIOR/PERIMETER: SA TEMP 54 DEG F **ENVELOPE DATA** SOLAR NUM BTUH SC CLE BILLIH CLID 23 0 GLASS 70 200 140 0 57 0 82 35 2290 0 65 1365 WALL 60 10 18 0 0 10 18 GLASS E 60 42 0.57 0 75 0 65 191 215 3930 70 WALL 8 87 00 0.10 18.0 GLASS 70 00 0 0 57 082 149 0.65 0 WALL 87 0 0.0 18.0 0 10 0 GLASS 00 0 0 57 0 0 82 216 17.0 0.65 ROOF 00 0.0 0 0 0.20 430 SKYLIGHT 00 00 0 1 00 247 2.00 0 FLOOR 00 00 ٥ 0 0.00 0 PARTITION 0 00 0 0.00 0 CEILING 0 00 0 TOTAL AREA AND PERIMETERS WALL AREA GLASS SUB TOTAL = SUB TOTAL = 1639 (SF) AREA (SF) EXTERNAL LOAD TOTAL= 7859 INTERNAL COOLING LOAD LATENT LOAD SENSIBLE LOAD ACTOR BTUH FACTOR BTUH OCCUPANTS 1 PEOPLE 1.00 200 0 250 0 250 LIGHTING 1190 WATTS 1.00 **FOURPLIENT** 0 WATTS 1.00 34 0 SENS HEAT BTUH 1.00 1.0 0 LATENT HEAT BTUH 45 0 GR/LB VENTLATION (OUTDOOR AIR) 14 0 TD 0 VENT RATE: 0 CFM/PERSON SUB TOTAL= 200 SUB TOTAL= 12172 SAFETY= 20 SAFETY= 1217 DELTA T: 20.0 DEG F LATENT LOAD= 220 SENSIBLE LOAD= 13389 HEATING DESIGN DATA **COOLING SUMMARY DATA** RM TEMP 70 DEG F TOTAL COOLING LOAD= 13609 OA TEMP: 6 DEG F INFIL RATE: 01 CFM/SF LOAD CFM = 620 DELTA T: 64 DEG. F HW DEL T: 20 DEG F LTG&PWR: 2.0 W/SF CFM/SQ FT = 10 SH RATIO: 0.984 INDEX FOR VENTILATIONS 11501 HEATING LOAD: TRANSMISSION & INFILTRATION TONNAGE: 1 13 MIN. CODE SUPPLY AIR . 238 TRANS (WALL+ROOF) 442 BTUF MIN. CODE OUTSIDE AIR = 79 TRANS (GLASS+SKYLITE) 7571 BTUH AIR CHANGES/HR = 67 NFILTRATION (GLASS AREA): 1258 BTUH 9272 BTUH SAFETY: 10% 927 BTUH BASIS: LOAD FINAL CFM = 620 TOTAL TRANS & INFIL 10199 BTUH **HEATING LOAD: FORCED INFILTRATION** HEATING SUMMARY DATA FACTOR TOTAL WINTER HEATING -14000 TO ET 1 08 3456 WATER GPM = KITCHEN 0 1 08 0 GENERAL 0 STACK 0 1 08 DRYER 0 1.08 3456 BTUH SWETY 10% 346 BTUH TOTAL FORCED INFILTRATION 3802 BTUH

Printed on 10/24/2006 at 8:48 AM

F:68 LEANARDA . 188 Leonard HVAC Load Calculations Edison Parking

TOTAL FORCED INFLIRATION

346 BTUH

3802 BTUH

SAFETY

3427

Berran of the Nome & Hazardon

ORIGINAL-KEEP IN FILE,

RECORDS CONTROL UNIT (718) 595-3855

11/16/06

CB195506 /

INSTALLATION NUMBER

ETIH (%) ----- (%) (%) (%)

Being duly mindful of my responsibilities as a licenced Professional Engineen the State of New York and acting as designated agent for the applicant, I hereby certify that the sublication, plans and all supplementary documents submitted in connection with this filing are complete and fully comply with all applicable laws, codes, rules, regulations and directives of the Department of Environmental Protection, Bureau of Air Noise & Hazardous Materials (Formerly known as Bureau of Air Resources) of the City of New York in effect at the time filed.

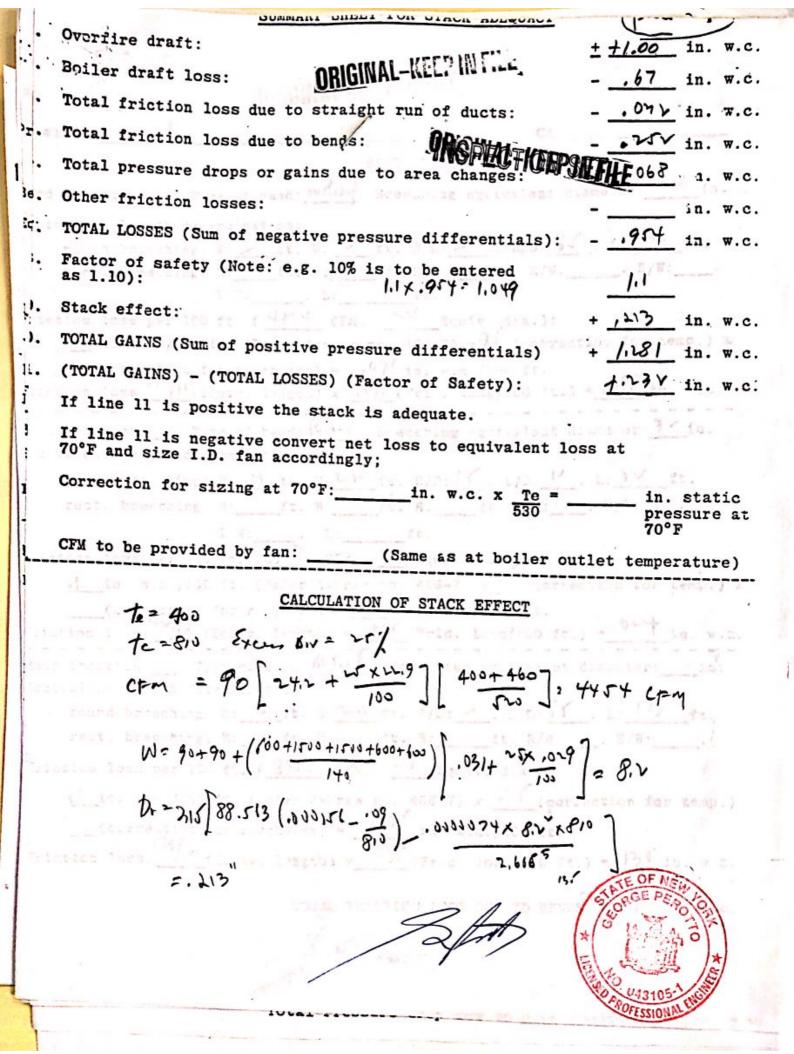
E.E. Seal & Signature

INSTRUCTIONS: Pursuant to Engineering Directive # 1-78, this certification must be submitted in triplicate with all APC 5-0, APC 5-R and APC5-PA applications and does not preclude the necessity to sign and seal the certification now contained on the application forms. This certification shall also be submitted in triplicate with all APC 5-0 applications submitted and certified by a Professional engineer.

B.E.C. Cler

AIR RESOURCE	FC - DI IDE	ALL OF ENGINE	ERING	-	18/06		ATION O C	
FOSSIL FUEL COM	BUSTION E	OUIDMENT		LOCA	LOT LOT TOR AGEN	C6-4/1	ő	
OWNER S NAME: 343 BROADWAY PROPER	TIES LLC	dans	PEEI 9		CASHIER	-"-	25. 6	MECEIVED
100 WASHINGTON STREET	ET 1	EES Minam	RECEIPT 0		27, BATE APPLICATION OF THE PERSON OF THE PE		į	
NEWARK OR	GINATURAL NO.	5. 21P 07102	29, EWISSION POINT 2. B. NO.	. AS	L PERTINENT DETA ANY OTHER INFOR- THE ENGINEERING FECTIVE JULY 1,1 DMRTTED AS DUPT	CRITERIA PE	R PUEL BURNIN	ING ITEMS AS WELL IN BUT REQUIRED & EQUIPMENT THE PLANS OR
- FACILITY CLASSIFICATION		L00. 07 E	TAL BEW EX.	29 B.	TYPE OF CHIMMET		129 C. et en	NO CHANGE
B. INDUSTRIAL B. SCHOOL	TITLE	MELGreen	30. ELEVATION AT	<u> </u>	(PT.)	AT OUT	LET (IN.)	34.
I hereby affirm under penalty of provided on this form is true to the		CEO	34A. RAINCAP OR CO	WER	215 35, ERIT VEL.	36. Emt /		37. 2. D. PAN YES NO
and that the equipment and/or op altered and operated in accordance Air Poliution Control Code. I hereb to tile this application on my behalf, statements are punishable as a Cio	paratus concer with the regul	med will be installed rements of the N Y C	The Property of the Control of the C	PAN	26.6			HISSION RATE
HOS. 8-18. 28 of the NYC Air Polition	Cont.Code B.S	9, TELEPHONE 973-849-	43, 100 X EMISSION A	ATE	44. TOTAL HEAT	MPVT (81)	2 (06/HR)	
D. HAME OF RE. GEORGE PEROTTO, P.E.	718-				ER AND WODEL NU	BER OF COM		: NO
2. NUMBER AND STREET ADDRESS 42-18 235 STREET	46. NAME OF MANUFACTURER AND MODEL NUMBER OF CONTINU-							
DOUGLASTON NY		1363	47, NAME OF WARUF	ACTURE	R AND MODEL NUM	BER OF CON	TINUOUS REC	ORDER I NO
APTROE PEROJORY	-	11	4		BOI	LER		
*(0) **	MY KNOWLEDS ACCURACY OF INFORMATION APPLICATION.	TIFT TO THE BEST OF E AND BELIEF TO THE THE TECHNICAL CONTAINED IN THIS PLANS AND ANY	47A. NO. OF BOILERS	1	48. UMT 1. D. LE	TTER 45	NEW EX.	50. BOILER A
PLACE SEAL ABOVE	SUPPLEMENTA	RY DATA SUBMITTED	51. BOILER MANUFAL EASTMOND-		R AND MODEL NO ERAL #FST3(177 10
8105 18, 816HATURED	PROFESSIONAL	EM4INEER	STA. TYPE OF BOILE STEEL CAST		STEAM HOT			ERWORK COMB.
FACELITY NAME (IF ANY)		J 3)	SIC. HEATING SURFACE SO, FT.	E IFM	ENDET	51 D. exc 18 871	U/HR	
3. FACILITY LOCATION (NUMBER AND ST 88 LEONARD STREET			51E. GROSS OUTPUT P RATE (SPH) 90	2000	51 F. ADDITIONAL ON STACK DRING IF YES, COMPLE BE SHOWN ON	BOULER ROO	W:	YES NO
MANH 10013 23. BLDG. SEC OR NUMBE		CELLAR	51 G. LEAD LAG BYST	7	121 NO		EAT-TIMER MULTI_MOI	Selector Switch
A.NO.OF NO. OF APTS. NO. OF RO	11	AL PLOOR AREA	51 H.		TYPE OF LOAD	0# 801 EA	amend	1-21-09
TE PERMIT WELL NOT SE ISSUEDUMLESS: INSTALLER IS NAMED AND WORKMENS COMP. & DISABILITY ARE D	N FILE LITH DA		SPACE HEATING	14	OM HOT NgD	AIR CORD	TIONING PI	igeE43
APPROVAL OF THE INSTALLATION IN ARTION WILL HOT BE ESSUED UNTIL COM VISIONS OF LAW RULE VAMP REGULATION THOSE CODE HAS BEEN VERIFIED AT TH RESENTATIVE OF THE DEPARTMENT. MPANY NAME F.W. SIMS INSTALLER	PLIANCE WITH A	ALE POLLUTION	"I hereby certificate sony supplement to the equipment	ory do	to I will make	the Install	ation of and a erein."	s and Sjustment
MPANY 101 OTIS STREET	1		INSTALLER'SPET	ER A	GLHARDO	-	NYC OIL BURN LIC.NO.	- 0/7/
WN OR BORD STA	N.	ZIP 11704	INSTALLER'S SIGNATURE	1		1	_ CLASS.	A

BURNE	R ·	ASS				.	(BTU=104/	HR) 12.6
TYPE 59.BURNE	R ISO NUN	ABER OF	SI BURNER MAN	NUFACTURER'S	NAME AND	MODEL NUMBER	62. BURNE	R GL DELIVERY RATE
SO NEW	EX. BURNE	RS	GORDON PLA	TT #F16G07	5	1888 1	9	0.0
HAS/DAY 64 DAYS/Y	66. PUEL TY	PE TO. AVE. C. WA	TITY 72.0UANTITY/		P64.DAYS/YR	21		372.0UANTIVI
3 125	12	· 180	67,500	3	123	77. FULL MODUL		78. DIRECT REPONSE
COMBUST		74.0H-0FF 75.	LOW PIRE SIZE.	4 240154	77	Y xx	BI, RAPID-	DISCONNECT
MOTORI		МН	BO. FIRING RAT	E MFR. M CAT. NO. L	TO THE	991	921	
- WINDOON	CAT. NO	M9174B	184.7	DEPURSE AND	H 10	SS. BURNER ELECTA	TORIZED DAWP	DOTED WITH ANY MOTORIZE ERS), MECHANICA, VENTA, PAN (S) & PORCED DRAFT
VES A		A DAMPER		POSTPURGE		PANIST: YES	MFR.	PARTE PORCED BRAFT
OIL HANDL	iNG: "	CR LOW SULPUR"	A C'A DALY EXCEPT A INSTALLATIONS I	POR ITEMS WITH	86.	NO. OF PRIMARY OIL MEATERS	CAT. NO.	
A. STEAM MOTHED	ELECTRIC	B6B.			TEMP, RISE C	P LOS STEA	,	Hg 0 WAT1
MCULATION! BRAVE	TY , PORCED	BB. AT	B9	BLOWDOWN AND	HAOTTLING 9	O, NO. OF AUTILIAN	Y 90A	CAPACITY IEAS WATTS
201 801 (80)	100	NON-CONTAME		AT VALVES VE	_	PERATURE GAUGES A	1 ere 95. A	L OIL PIPE LINES
ELECTRIC MEATERIS) I TEMPERATURE COM		92. DETAILS!		INTERLOCK: YES		LAN DETAILS! YE	S A ADEOL	ATELY INSULATED: YES
A AUTOMATIC PRESSI MAINTAIN BOILERT	TEAM PRESSU	1		• 6 MAIN	OF MM	: YES MO		H 4006A.
100 (11)		CAT. NO.		18		ED OPENING: 68	HOES AREA	EFFICIENCY NET AR
GAS	PAN (S)			TEN BOOM: NO X		XX	sire de	w 14131 1 572 vin
ALDUVERED OPENING AND IN NO CASE LESS INCREASED IN SIZE	IN A WALL TO T THAN THE AVE EQUIVAL ENT T	HE DUTSIDE AIR H RAGE INTERNAL C D THE OPENING OF	AVING & MET PREE AI ROSS-SECTIONAL AR A BAROMETRIC DAM	REA OF 12 SQUARE LEA OF THE CHIMN PER OR DAMPERS.	TES X	LLON PER HOUR BA	SED ON THE BL	RHER OIL DELIVERY RATE OUVER SHALL BE
. YENTILATION BUCT	125 80	NEW EX.	IDI. LOUVER/DA	ED: YES	10	AULT	701	Per Production
			1		NER OPERATE	2 2247	MFR.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
AFT CONT	ROL P	TRIC DAMPER: NO	IH. 80	T LO	BULATOR WIT		CAT. NO.	eveland cdr-AFS-952
A FULL-SIZE DAMPER YES X	T IF ROUN	O OF DAMPER IS OF	ME COMMINGE THE	T OF	HOICATE POST	T T	BIZED AS P	LING LINES ADEQUATELY ER PLAN DETAILS: YES
PULL SIZE CLEANOUT	105. ACCESS	PORTS IN BREECH VENTILATION DUC	ING AND 106. SHOKE	ALARW WITH USTION SHUTOFF:		HEATIME	R 10	7. AUDIO-VISUAL ALARM INSTALLED AS PER PLAN DETAILS: YES X
Lyd englering	3	16 X	7210			CAT. NO.		
		21 0 12	· EMISSIO	N CONTI	ROL	Viago do	W'	300 7 300 10
	ETATUS CEW EX.	III, TYPE	12. MANUFACTURES	AND MODEL NUM	ita		PICIENCY	115. HOTERWINE
		100	- FOR AGE	NCY USE ON	LY			
1,000	e maar .	ene (g)	The state of	100/01/00	72.	11.122	WORK PE	RMIT
LOCATION CODE	144, 1.0.	NO. 145, U1	M (E) 146.	UTM (N) 14	7, SIC MUMBER	151, DATE		152, EXPIRATION DAT
2 - 2						00 10 10	0.0%	334 1236
	1	4.1	A 1 4		1	/ 15° DATE		PROVAL
PREMISES	IDENTIE	CATION NO	للبل	- (x -)	100	pel		
FREMISES	IDENTIFI		responded to the			FOR PERMI	T ONLY	
L		DT NO		t paken o		Wan	4	PE
500	RCE EMIS	. PI. NU.			Art discount	HEAD, FOSSIL	EUEL DIVISION	-
OP OP	LOCATION	FACIL		PT. UNIT		1		Pro
C	3		000	1	-	UY	To.	Service .
Maria Control	A.Sharan		000		-	DIRECTOR OF E	HOINZERING	7.3



BEND LOSON
Send location: Type of bend: with. Breeching equivalent diameter: ~ in.
quivalent land to the district Breeching equivalent diameter: 24 in.
round breeching: R: _ ft. D: V ft. R/D: L/D: 65 . L: /30 ft.
I/W: H:ft. R/W: H/W:
Fiction loss per 100 ft. (4454 CFU ~4
iriction loss: [30/1] (Equiv. length) x /// (Fric. loss/100 ft.) = ,098 in. w.c.
Rend location:
lend location: Type of bend: Row . Breeching equivalent diameter: 3 in. iquivalent length determination:
round breeching: R: 4 ft. D: L/D: L/D: N. L: 3V ft.
rect. breeching: R:ft. W:ft. H:ft. R/W: H/W: L/W: L:ft.
riction loss per 100 ft. (8908 CFM. 7V Equiv. dia.):
in. w.c./100 ft. (Refer Ashrae pp. 466-7) x.7) (correction for temp.) x
Friction loss: (Equiv. length) x 1075 (Fric. loss/100 ft.) = 100+ in. w.c.
Fend location: Type of Bend: Milly . Breeching equivalent diameter:in:
round breeching: R: - ft. D. 2-11 ++ B/D.
ft. H: ft. R/W.
Friction loss per 100 ft. (8908 CFM. 3V Equiv. dia.):
in. w.c./100 ft. (Refer Ashrae pp. 466-7) x -) (correction for temp.)
(correction for roughness) = 1071 in. w.c./100 ft.
Friction loss: 173/14 (English and) 70 (The w.c./100 ft.
(Fric. loss/100 ft.) = 1/7 in. w.c.
TOTAL FRICTION LOSS DUE TO BENDS: VIV in. W.C.
* In. w.c.
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
PROFESSIONA
TOTAL Pressure drop due to area changes.

Land STRAIGHT RUN FRICTION LOSSES
The of street of street of the
Length of straight run duct: 7 ft. Equivalent diameter: 1 in. Friction loss per 100 ft. (1414 CFM. 24 Equiv. Dia.):
in. W.C. (700 ct
(correction company) (correction contents
Friction loss: //w (Equiv. length) x ,075 (Fric. loss per 100 ft.) = ,005 in. w.c.
(Fric. loss per 100 ft.) = 100 in. w.C.
of Straight and
Length of straight run duct: 18 ft. Equivalent diameter: 3v. in. Friction loss per 100 ft. (4414 CFM.) Equiv. Dia.): [OV! in. w.c./100 ft. (Refer ASHRAE pp. 466 ft.)
10 VI in. w.c./100 ++ (n.
(correction for roughness) = ,019 in. w.c./100 ft.
Friction loss: 10/11 (Equiv. length) x,019 (Fric. 1.
Friction loss: (Equiv. length) x . 019 (Fric. loss per 100 ft.) = 1003 in. w.C.
or straight run duck UU
Friction loss per 100 ft. (8908 CFM. 3 Equiv. Dia.):
in. w.c./100 ft. (Refer ASHRAE pp. 466-7) x 75 (correction for temp.)
(correction for roughness) = .07\(\int \text{in. w.c./100 ft.}\) Friction loss: \(\frac{100}{100} \text{it.} \text{ (Equiv. length) x .07\(\int \text{ (Fric. loss.)}\)
Friction loss: //v'(Equiv. length) x .071 (Fric. loss per 100 ft.) = .0v in. w.c.
Length of at
Length of straight run duct:ft. Equivalent diameter:in.
CEN
Refer ASHRAE DD. 466-71
(correction for roughness) =in w.c./100 ft.
rength) x (Fric. loss and the
TOTAL FRICTION LOSS DUP in. w.c.
TOTAL FRICTION LOSS DUE TO ST. RUN: .07 in. w.c.
Distant Colonia

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MAINS DUE TO
Type of change Or	t. 2V1: 14/8 ft/min. V2: 198 ft/min. Coefficient: 4
Calculation:	M . Appropriate pressure drop formula:
AP = (4	(18) -(H.41)(798) = ,068
	Pressure Drop:in. w.c.
A ₁ :ft. ² A ₂ :ft Type of change:	.2V1:ft/min. V2:ft/min_Cooffice
Calculation:	propriate pressure drop formula:
the section of the se	O Para Tiber and a surpline with a special of People's American
the second file of	and the promount of our policy for the delivery and the second bushes.
2 12 154 V 18 14	Pressure Drop:in. w.c.
A1:ft.2A2:ft.	V ₁ :ft/min. V ₂ :ft/min. Coefficient:
Calculation:	V1:ft/min. V2:ft/min. Coefficient: Appropriate pressure drop formula:
	Pressure Drop: 1000 3105 W.C.
A1:ft.2A2:ft.2	1:ft/min. V2:ft/min. Coefficient:
Type of change:	Appropriate pressure drop formula:
Calculation:	Top Tormula:
	Pressure Drop:in. w.c.
	Total Pressure drop due to area changes:in. w.c

ORIGINAL-KEEP IN FILE

METHOD OF BURNER OIL DELIVERY

The burner will be limited to its high firing rate by the use of an oil pressure regulating valve and an FRM-2 air pressure-regulating valve. Both valves will be set and permanently scaled by drilling and pinning for the specified oil burner delivery rate as listed below and connected in accordance with the oil piping schematic diagram listed. Oil and air pressure gauges with gauge cocks will be installed to verify firing pressures as illustrated on the enclosed piping schematic.

Metering valve assembly metering scale to indicate p	ercentage	0222-7090 of flow correspon	will be supplied with a nding to valve position.	
A turndown ratio of the limits shown below.	5:1	will be p	provided by controlling the	fuel oil pressures between
OIL SYSTEM DATA: Oil System:	F8A.2	OilP	iping Diagram:	44-000227-40
OIL NOZZLE DATA:		or our chi	Nozzle No.	C169WA-100.00GPH
Manufacturer Hi Fire Oil Press. Hi Fire Air Press. Hi Fire Dely. Rate	7	Monarch 30 psig 25 psig 90 gph	Low Fire Oil Press. Low Fire Air Press. Low Fire Dely. Rate	15 psig 13 psig 18 gph





42-18 235 STREET DOUGLASTON, NEW YORK 11363 (718)746-1700

PREMISES: 88 LEONARD STREET, MANHATTAN

PEROTTO FILE #6118/06

THE CHIMNEY EXTENDS A MINIMUM DISTANCE OF 3 FEET ABOVE ALL CONSTRUCTION LOCATED WITHIN 10 FEET OF THE CENTERLINE OF THE CHIMNEY OUTLET.

THE MINIMUM RADIAL DISTANCE FROM THE CENTERLINE OF THE CHIMNEY TO AN ACCEPTALBE RECEPTOR IS 80.9 FEET.

3-5/16" DIAMETER HOLES ARE PROVIDED IN THE BREECHING APPROXIMATELY 4" APART AND PLACED SO THAT THE ONE CLOSEST TO THE BOILER IS APPROXIMATELY ONE BREECHING DIAMETER AND DOWNSTREAM FROM THE BOILER OUTLET. THEY WILL BE PLACED IN THE SYSTEM SUCH THAT AIR INFILTRATION FROM A BAROMETRIC DAMPER. SMOKE ALARM PORT, ETC. DOES NOT AFFECT THE COMPOSITION OF THE COMBUSTION CASES.

2-5/16" DIAMETER HOLES ARE PROVIDED IN THE BREECHING PLACED ONE ON EACH SIDE OF THE DRAFT REGULATOR DAMPER, APPROXIAMELTY ONE BREECHING DIAMETER FROM THE CENTERLINE OF THE DAMPER. DRAFT SAMPLING LINE TO BE 1 1/4" PIPE AND INSTALLED THROUGH THE FURNACE WALL WITH A FULL SIZE CLEAN-OUT PLUG.

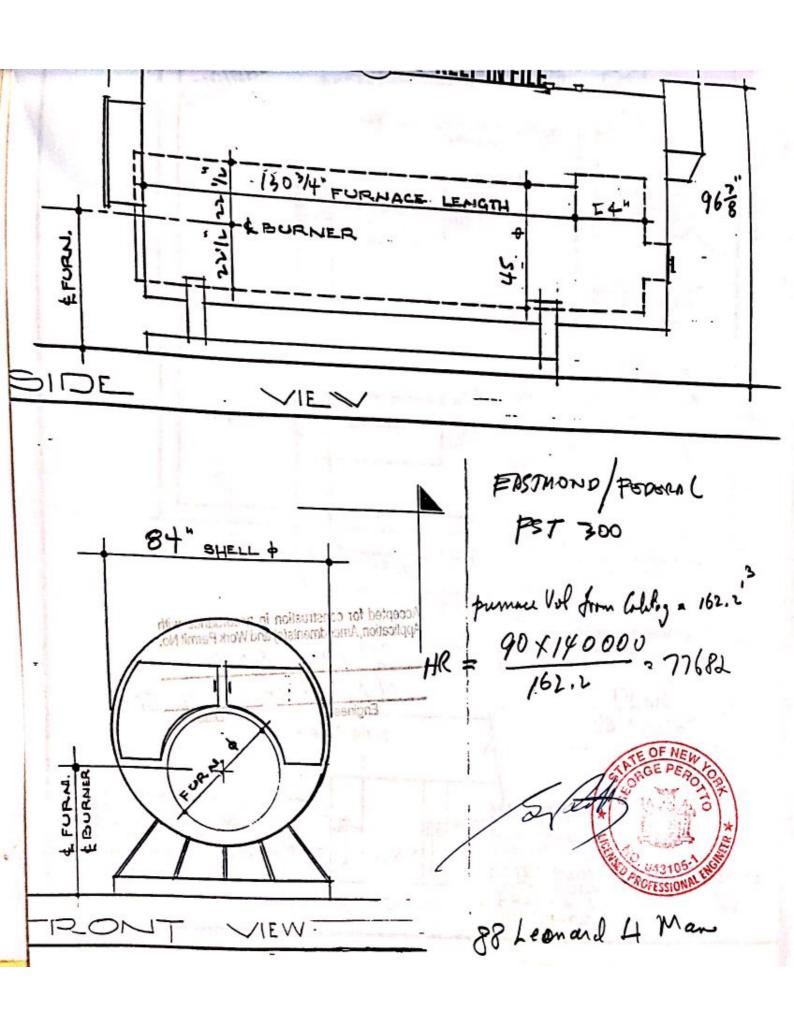
A 5/16" DIAMETER HOLE IS PROVIDED IN THE BREECHING WITHIN ONE BREECHING DIAMETER OF THE BREECHING CONNECTION TO THE STACK.

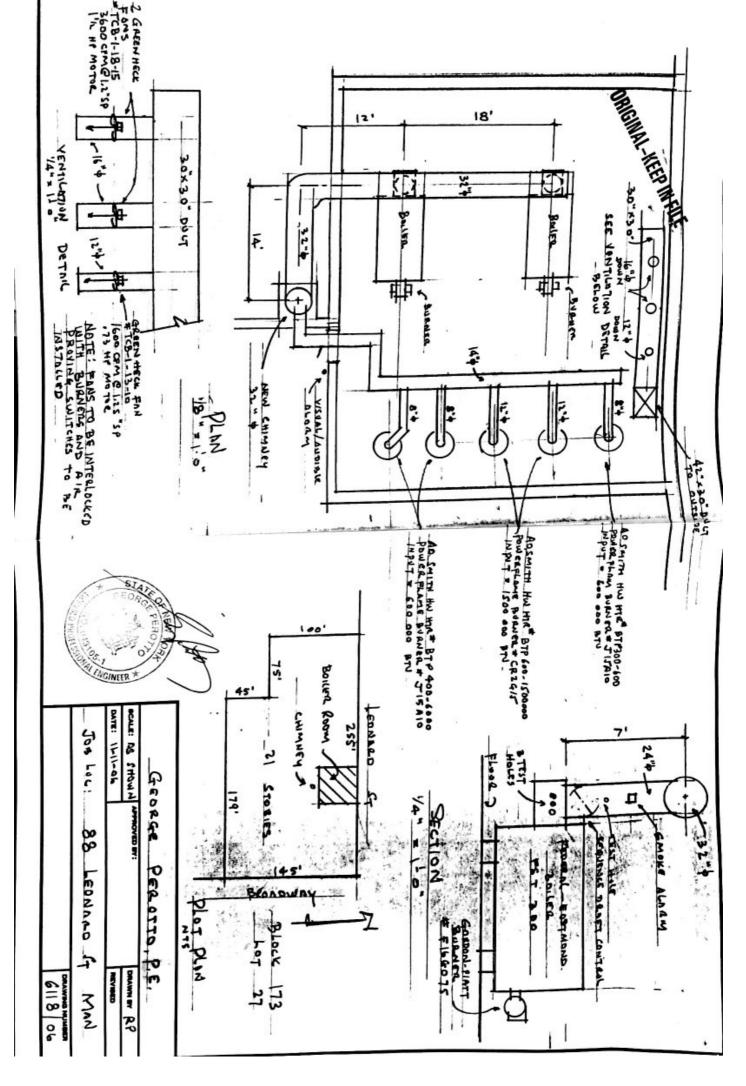
ALL TEST HOLES ARE A MINIMUM OF ONE BREECHING DIAMETER FROM ANY FLOW DISTURBANCE SUCH AS A BEND ETC. WHENEVER FEASIBLE.

ANY INSULATION IS NEATLY REMOVED FROM APPROXIMATELY A 4"X4" AREA SURROUNDING ANY TEST HOLE IN THE BREECHING.

ALL TEST HOLES ARE KEPT CLOSED WITH A SHEET METAL SCREW OR OTHER ACCEPTABLE METHOD WHEN NOT BEING USED FOR TEST PURPOSES.. ALL TEST HOLES SHALL BE MARKED IN SUCH A WAY THAT THEIR LOCATION CAN BE READILY DETERMINED.

CLEAN-OUT TO BE PROVIDED IN THE BREECHING AT 15'-0" O.C. MINIMUM.





Scanned with CamScanner



THE CITY OF NEW YORK DEPARTMENT OF ENVIRONMENTAL PROTECTION

Bureau of Environmental Compliance 59-17 Junction Blvd. 9th Floor, Flushing, NY 11373 Records Control (718) 595-3855

Michael Gilsenan Assistant Commissioner Environmental Compliance

BOILER REGISTRATION PERMIT

Owner Information

Franklin Broadway Holding LLC, C/o Prospect

Management Inc.

199 Lee Avenue, Brooklyn, NY 11211

Application ID: CB274901

Issued Date: 12/6/2016

Expiration Date: 12/11/2019

Request ID: 196249

FACILITY ADDRESS:59 Franklin Street, Manhattan, NY 10013

Boiler Details:

Manufacturer	Model	# of Units	Input (BTU/Hr.)	Output (BTU/Hr.)
ROCKMILLS (NEW) MP-50	ROCKMILLS	1	2100000	1673000
Bearings Thomason	(NEW) MP-50			

Burner Details:

Manufacturer	Model	Quality	Fuel Type	Hours/day	Days/Week	Weeks/ year	Firing Rate
Carlin	801	ing in state (country and) the mandate manager wheater wheat	No2Fuel	4	7	52	15
Amort sand control of the control of		and a substitute of the substi	None	autoritati kontrologi, um pamametrami districo districo vide America di			

Additional Equipment: None

Comments:

NA

The holder of this registration certification is responsible for the use of the equipment in accordance with all the application requirements and provisions of the New York City Air Pollution Control Code. Violations of the Air Pollution Control Code can result in the imposition of penalties by the Environmental Control Board. This Certificate must be posted in the vicinity of the designated equipment. It may not be transferred to any other equipment.

Application for renewal of this registration certificate must be submitted no later than ninety (90) days prior to the expiration date.



CB274901

R. Radhakrishnan, P.E.
Director of Engineering / For the
Commissioner



THE CITY OF NEW YORK DEPARTMENT OF ENVIRONMENTAL PROTECTION

Bureau of Environmental Compliance 59-17 Junction Blvd. 9th Floor, Flushing, NY 11373 Records Control (718) 595-3855

Michael Gilsenan Assistant Commissioner Environmental Compliance

BOILER REGISTRATION PERMIT

Owner Information

91 FRANKLIN STREET ASSOCIATESC/O D.BJORK

91 FRANKLIN STREET #2, MANHATTAN, NY 10013

Application ID: CR681014

Issued Date: 10/3/2017

Expiration Date: 12/16/2020

Request ID: 217819

FACILITY ADDRESS:91 FRANKLIN STREET, Manhattan, NY 10013

Boiler Details:

Manufacturer	Model	# of Units	Input (BTU/Hr.)	Output (BTU/Hr.)
HB SMITH	LO19HE-S-4	1	504000	421000

Burner Details:

Manufacturer	Model	Quantity	Fuel Type	Hours/day	Days/Week	Weeks/year	Firing Rate
CARLIN	301CRD	1	No2Fuel	4	7	52	3.6
	77.00		None			200	N.

Additional Equipment: None

Comments:

NA

The holder of this registration certification is responsible for the use of the equipment in accordance with all the application requirements and provisions of the New York City Air Pollution Control Code. Violations of the Air Pollution Control Code can result in the imposition of penalties by the Environmental Control Board. This Certificate must be posted in the vicinity of the designated equipment. It may not be transferred to any other equipment.

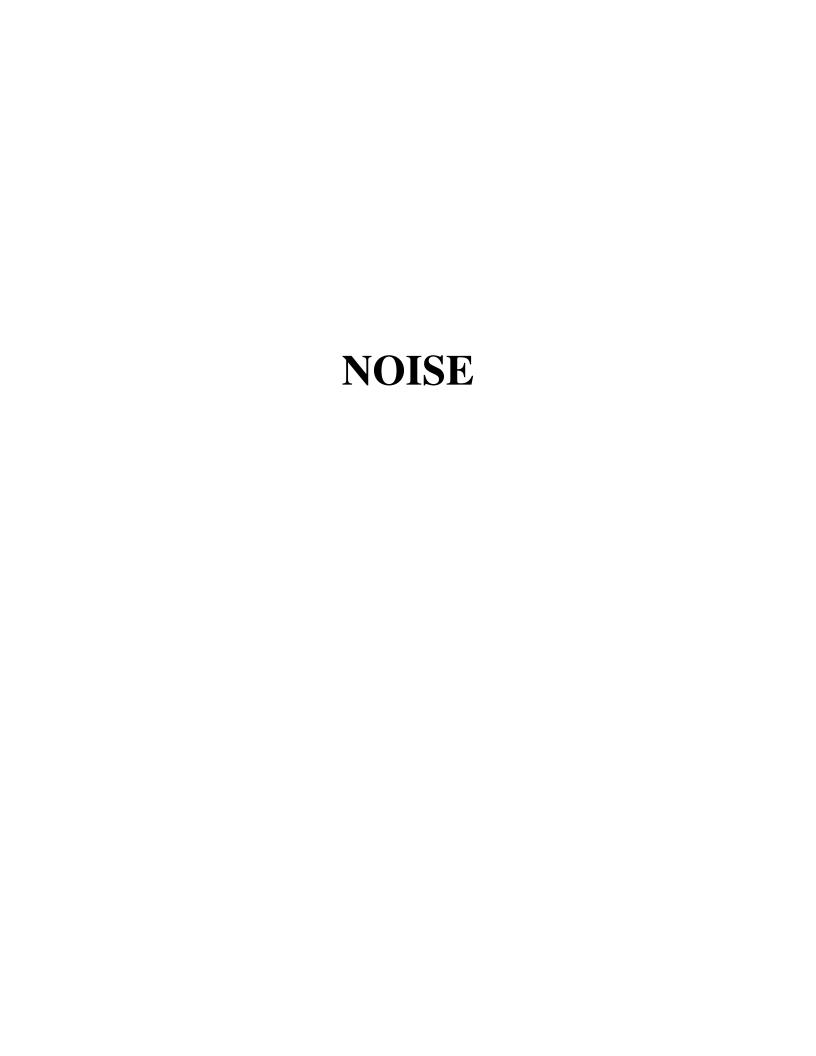
Application for renewal of this registration certificate must be submitted no later than ninety (90) days prior to the expiration date.



CR681014

R. Karh

R. Radhakrishnan, P.E. Director of Engineering / For the Commissioner



Serial Number 1367937 LASmin 58.0 dB 91.9 dB LASmax Start Date & Time 9/7/2017 16:50 **Duration HH:MM:SS** 0:20:31 Notes 66.2 dB LAeq LCpeak with Time 105.7 dB (9/7/2017 5:09:19 PM) **LAF 10%** 65.5 dB **LAF 50%** 62.0 dB 60.5 dB **LAF 90% LAF 95%** 60.0 dB

Response Free Field

End Date & Time 9/7/2017 17:11

Pause Duration HH:MM:SS 0:00:00

Calibration (Before) Date 9/7/2017 16:21

Calibration (Before) SPL 114.0 dB

9/7/2017 17:12

Calibration (After) Date
Calibration Drift -0.1 dB

Result Cumulative Result