

Rule 1200 Health Risk Assessment

Facility Name: Apres Little Italy
Facility ID: APCD2026-SITE-05028
Application: APCD2026-APP-009132
Project Engineer: Hawzhin Muhamed
Modeler: Bill Reeve
Toxics Risk Analyst: Maria Galvez
Date Submitted to Toxics: 5/12/2026
Date Completed by Toxics: 6/17/2026
HRA Tools Used: Lakes-AERMOD (Version 24142)/HARP (v22118)

The following estimated risks are valid only for the input data provided by the Project Engineer.

Estimated worker risk does not exceed the residential risk. Therefore, only residential risk is presented in the following results.

Estimated Risk Levels:

Maximum Individual Cancer Risk (Resident)	0.51 in one million
Chronic Noncancer Health Hazard Index (Resident)	= 1.36E-04
8-Hour Noncancer Health Hazard Index (Worker)	= NA*
Maximum Acute Health Hazard Index	= 0.15

*8-Hour Non-Cancer Health Hazard Index is only applicable when calculating worker risk

The proposed application is for a stationary diesel emergency engine. The ARB Air Toxics Control Measure (ATCM) limits non-emergency operations to 50 hours per year.

Input Data Provided by Project Engineer:

Type of Source: Emergency Diesel IC Engine.

Controls Description: Aftermarket DPF

Worst-Case TAC Emissions Increase:

Toxic Air Contaminant	Hourly Emission Rate (lb/hr)	Annual Emission Rate (lb/yr)
DIESEL PARTICULATE		8.84E-01
ACETALDEHYDE	4.50E-02	2.25E+00
ACROLEIN	1.95E-03	9.75E-02
ARSENIC COMPOUNDS	9.20E-05	4.60E-03
BENZENE	1.07E-02	5.36E-01
BUTADIENE, 1,3-	1.25E-02	6.24E-01
CADMIUM AND COMPOUNDS	8.63E-05	4.31E-03
CHLOROBENZENE	1.15E-05	5.75E-04
CHROMIUM (HEXAVALENT)	5.75E-06	2.88E-04
COPPER AND COMPOUNDS	2.36E-04	1.18E-02
ETHYL BENZENE	6.27E-04	3.13E-02
FORMALDEHYDE	9.93E-02	4.96E+00
HEXANE-N	1.55E-03	7.73E-02
HYDROCHLORIC ACID	1.07E-02	5.36E-01
LEAD & COMPOUNDS	4.77E-04	2.39E-02
MANGANESE AND COMPOUNDS	1.78E-04	8.91E-03
MERCURY AND COMPOUNDS	1.15E-04	5.75E-03
NAPHTHALENE	1.13E-03	5.66E-02
NICKEL AND NICKEL COMPOUNDS	2.24E-04	1.12E-02
POLYCYCLIC AROM. HC (PAH) [Treat as B(a)P for HRA]	2.08E-03	1.04E-01
PROPYLENE	2.69E-02	1.34E+00
SELENIUM AND COMPOUNDS	1.27E-04	6.33E-03
TOLUENE	6.06E-03	3.03E-01
XYLENES	2.44E-03	1.22E-01

Source: Acute TACs – Ventura County, 5/17/01.

Diesel particulate exhaust is a surrogate for all toxic air contaminant annual emissions from diesel-fueled engines when determining the potential cancer risk and noncancer chronic hazard index. Speciated toxic air contaminant hourly emissions are used when determining the potential noncancer acute hazard index.

Process Data:

Operation Parameter	Value
Diesel particulate emission factor (g/hp-hr)	0.007
Engine horsepower (bhp)	1195
Fuel Consumption (gal/hr)	57.50
Annual hours of operation	50

Release Parameters:

Exhaust Flow Rate, cfm:	6155
Exhaust Temperature, °F:	878
Stack Height above ground, ft:	35.0 (horizontal release)
Stack Diameter, ft:	1.17

Discussion

The HRA was conducted in accordance with EPA and OEHHA guidance and District standard procedures. A horizontal point source was modeled with refined air dispersion modeling using EPA's AERMOD model, AERMET (Version 24142) processed Lindbergh 2019/2021 u-star adjusted meteorology data, AERMAP terrain processing, and urban dispersion coefficients. Building downwash effects were calculated using the EPA BPIP-Prime model. The receptor grid was sufficiently dense to identify maximum impacts.

These risk results are based on the risk scenario calculations and health data at the time of the review and should not be scaled with revised emissions rates without consulting with the Toxics Section.

*HARP - HRACalc v22118 6/17/2026 1:46:40 PM - Cancer Risk - Input File: D:\9132_Apres Little Italy\9132_RAST\resident_HRAInput.hra

*HARP - HRACalc v22118 6/17/2026 1:46:40 PM - Chronic Risk - Input File: D:\9132_Apres Little Italy\9132_RAST\resident_HRAInput.hra

*HARP - HRACalc v22118 6/17/2026 1:46:40 PM - Acute Risk - Input File: D:\9132_Apres Little Italy\9132_RAST\resident_HRAInput.hra

PROJECT TITLE:
APP009132
hourly x/q

COMMENTS:

SOURCES:

1

RECEPTORS:

17825

OUTPUT TYPE:

Concentration

MAX:

443 ug/m^3

COMPANY NAME:

MODELER:

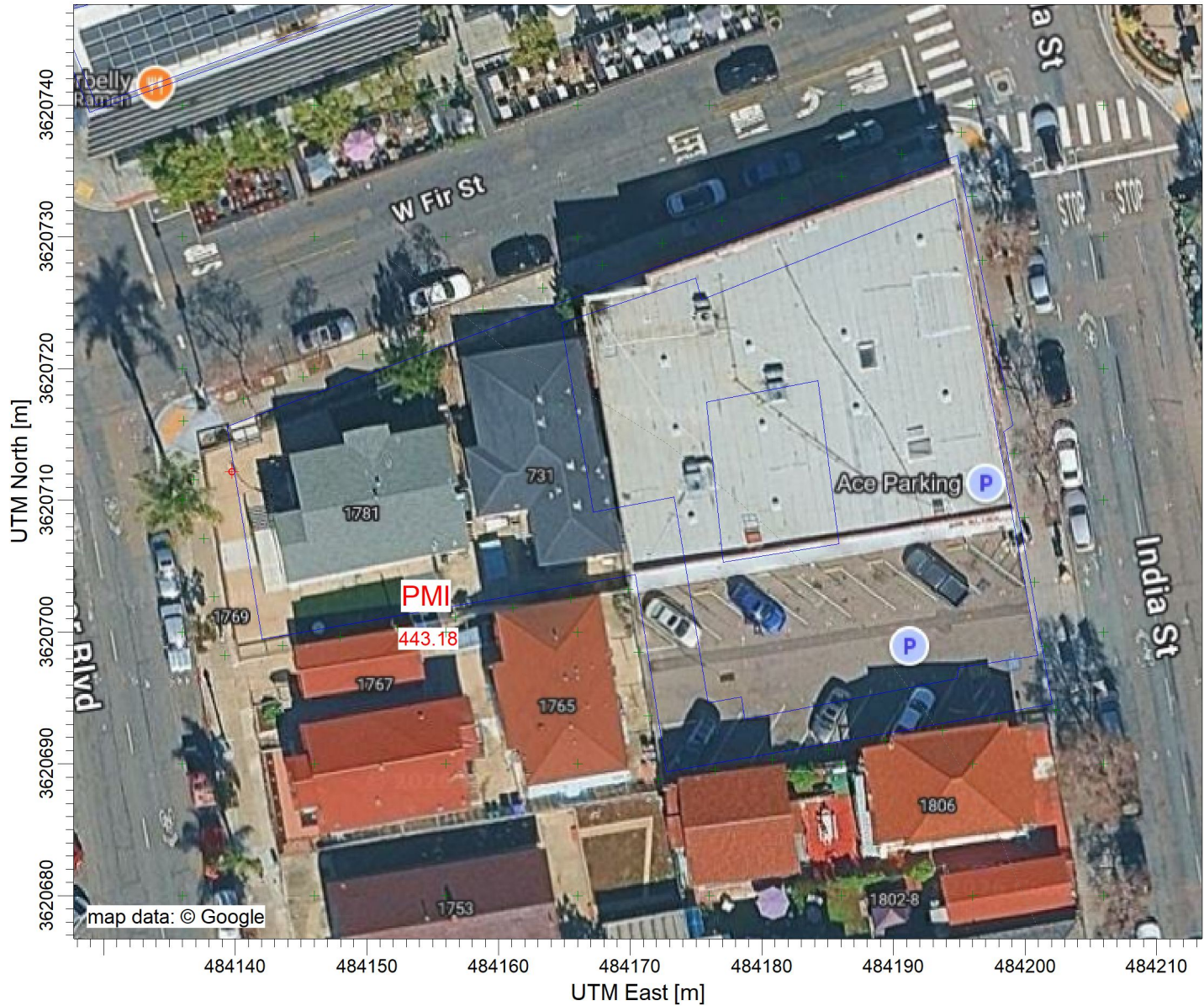
DATE:

6/17/2026

SCALE: 1:483

0 0.01 km

PROJECT NO.:



APP009132
annual x/q

SOURCES:

RECEPTORS:

17825

OUTPUT TYPE:

Concentration

MAX:

58.3 ug/m³

COMPANY NAME:

MODELER:

DATE:

6/17/2026

SCALE: 1:517

A horizontal scale bar with a black background and white markings. It is labeled '0' at the left end and '0.01 km' at the right end. The bar is divided into four equal segments by three white vertical lines.

PROJECT NO.:



Facility Name: Apres Little Italy
Application Number: APCD2026-APP-009132
Site ID Number: APCD2026-SITE-05028
Equipment Address: 777 W. Fir St, San Diego CA 92101

Project Description: Emergency diesel engine powering generator

Project Engineer: Dennis Carey
Hawzhin Muhamed
4158190143 dennis@theabrahamco.com

Matthew Dunbar
619 687 2457
mrd@carrierjohnson.co

Make: Rehlko
Model: KD800
S/N: TBD
Fuel Type: Diesel
BHP Rating: 1195
Model Year: 2026
Tier Level: 2
Engine Family Number: TLHAL45.0ESP
Device Driven: 800 kW emergency generator
Emissions Controls: Mira Tech DOC/ DPF LTR20-10

Based on Manufacturer Specs

NOx, g/BHP-hr: 0.63 0.84 g/kW-hr With DPF reduction 85%
CO, g/BHP-hr: 0.42 0.56 g/kW-hr
NMHC, g/BHP-hr: 0.05 0.07 g/kW-hr
PM10, g/BHP-hr: 0.01 0.01 g/kW-hr With DPF reduction 85%

NOx, g/BHP-hr: + NMHC, g/BHP-hr: 0.68

Fuel Usage, gal/hr: 57.5
Operating Schedule, hrs/day: 24
Operating Schedule, hrs/yr: 50

Exhaust Flow Rate, cfm: 6155
Exhaust Temperature, °F: 878
Stack Height above ground, ft: 35.0
Stack Diameter, ft: 1.2

14.00

Nearest School, ft: 825.00 Washington Elementary School
Residential Receptor, m: 25.00 75 ft AB3205? AB3205 is Required
Occupational Receptor, m: 25.00 50 ft Consult Toxics? Consult Toxics
Acute Receptor, m: 25.00 50 ft

Vertical Exhaust? (yes/no): no
Flapper Valve? (flapper/birdscreen/no cover/raincap/other): no cover
Plot Plan? (yes/no): yes
Flow Obstructions: no

Completion Check List			
Item	Attached and Completed?		
	Yes	No	Notes
General Application	x		
Emergency Engine Supplemental Form	x		
Toxics Form	x		
Plot Plan(s)/Site Map(s) with required locations	x		
Engine Manufacturer Specs	x		
Engine Emissions Data	x		
Engine CARB/EPA Certification	x		
Control Equipment Specs (if applicable)	x		
BACT Analysis (if applicable)			



KD800
60 Hz. Diesel Generator Set
Tier 2 EPA Certified for Stationary Emergency Applications
EMISSION OPTIMIZED DATA SHEET

ENGINE INFORMATION			
Model:	KD27V12	Bore:	135 mm (5.31 in.)
Nameplate kW @ 1800 RPM:	891	Stroke:	157 mm (6.18 in.)
Type:	4-Cycle, 12-V Cylinder	Displacement:	27 L (1648 cu. in.)
Aspiration:	Turbocharged, Charge Air Cooled	EPA Family:	TLHAL45.0ESP
Compression ratio:	15.0:1	EPA Certificate:	TLHAL45.0ESP-011
Emission Control Device:	Direct Diesel Injection, Engine Control Module, Turbocharger, Charge Air Cooler		

EXHAUST EMISSION DATA:		EPA D2 Cycle 5-mode weighted	
HC	(Hydrocarbons)	0.07	g/kWh
NOx	(Oxides of Nitrogen as NO2)	5.63	g/kWh
CO	(Carbon Monoxide)	0.56	g/kWh
PM	(Particulate Matter)	0.06	g/kWh

Model	Engine Family	Manufacturer	Certificate #	Issue Date	Commer	Carryover Engine	Power	Appl	Certification Level Steady-State Discrete Modal Test Results (g/kW-hr)					
									NMHC	NOx	NMHC+NOx	CO	PM	
2025 SLHAL45.0ESP		Liebherr Machines Bulle SA	SLHAL45.0ESP-002	8/12/2024	1/1/2025	GLHAL45.0ESP	kW>560	Tier 2	0.38	5.62		6	0.9	0.18
2026 TLHAL45.0ESP		Liebherr Machines Bulle SA	TLHAL45.0ESP-011	10/29/2025	1/1/2026	SLHAL45.0ESP	kW>560	Tier 2						

Engine Cycle Data													
Load	Speed	Power	Exhaust Flow		Exhaust Temp.		Fuel Cons.		PM	O ₂	H ₂ O		
%		kW	kg/hr		° C		g/bhp-hr			%	%		
100	Rated	891	4,727		471		0.03			10	12.5		
Emission Data (100% Load)													
Emission	Raw Engine Emissions						Target Outlet Emissions						
	g/bhp-hr	tons/yr	ppmvd @ 15% O ₂	ppmvd	g/kW-hr	lb/MW-hr	g/bhp-hr	tons/yr	ppmvd @ 15% O ₂	ppmvd	g/kW-hr	lb/MW-hr	Reduction
PM	0.03	0.01	11	21	0.04	0.09	0.01	0.001	4	7	0.013	0.03	85%+

San Diego Air Pollution Control District

Supplemental Application Information

Rule 1200 Toxics Evaluation

(ALL REQUESTED INFORMATION IS IMPORTANT - PLEASE FILL BLUE CELLS)

Facility Name: Apres Little Italy

Equipment Location: 777 W. Fir St, San Diego CA 92101

Project Description:

Control Equipment: None

Operating Schedule:

Hours per Day: 13.5

Days per Week:

Weeks per Year:

Days per Year:

RELEASE POINT DATA

How are the emissions from this project released into the outdoor air? (Check all that apply)

Point Source	Non-Point Source
☐ Exhaust Stack	☐ Passive Ventilation ☐ Released through windows and/or roll-up doors ☐ Fugitive Emissions

Point Source

Parameter	Point Source #1	Point Source #2	Point Source #3
Height of release above ground (ft)	35.0		
Stack Diameter (or length x width) (ft)	1.17		
Exhaust Gas Temperature (°F) ¹	878		
Exhaust Gas Flow (ACFM)	6155		
Direction of Flow ²	non-vertical		
Flow Obstruction ³	no		
Distance to Nearest Property Line (+/- 10ft)	50.00		

¹ Use “70 °F” or “Ambient” if unknown

² if "other" describe:

³ if "other" describe:

AERIAL MAP AND FACILITY PLOT PLAN must be attached and labeled with Release Point(s) and Building(s)
(includes facility and neighboring buildings within 5x the release height of a point source(s)).

Parameter	Building A	Building B	Building C
Point Source(s)			
Point Source Location			
Building Length (ft) (optional)			
Building Width (ft) (optional)			
Building Height above ground (ft)			

San Diego APCD Use Only

Additional Rule 1200 Submittal Information

Submittal Date:		Site ID:	APCD2026-SITE-05028
Project Engineer:	Hawzhin Muhamed	Appl. Number(s):	APCD2026-APP-009132
Fees Collected:		PTO No. (if existing):	

FACILITY NAME: Apres Little Italy																	
Fuel Consumption (gal/hr): 57.50 Diesel Particulate Emission Factor (g/hp-hr): 0.006714 Brake Horsepower (hp): 1195 Annual Hours of Operation (hrs): 50	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr style="background-color: yellow;"> <th colspan="2" style="text-align: center;">RISK ANALYST ONLY</th> </tr> <tr> <th colspan="2" style="text-align: center;">DISPERSION MODELING DATA</th> </tr> <tr> <td>Annual Receptor Type:</td> <td>Resident ▼</td> </tr> <tr> <td>ANNUAL DISPERSION FACTOR (µg/m3)/(g/s):</td> <td style="text-align: right;">53.7</td> </tr> <tr> <td>Distance (m):</td> <td></td> </tr> <tr> <td>Hourly Receptor Type:</td> <td>PMI ▼</td> </tr> <tr> <td>HOURLY DISPERSION FACTOR (µg/m3)/(g/s):</td> <td style="text-align: right;">443.2</td> </tr> <tr> <td>Distance (m):</td> <td></td> </tr> </table>	RISK ANALYST ONLY		DISPERSION MODELING DATA		Annual Receptor Type:	Resident ▼	ANNUAL DISPERSION FACTOR (µg/m3)/(g/s):	53.7	Distance (m):		Hourly Receptor Type:	PMI ▼	HOURLY DISPERSION FACTOR (µg/m3)/(g/s):	443.2	Distance (m):	
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HOURLY DISPERSION FACTOR (µg/m3)/(g/s):	443.2																
Distance (m):																	
FACILITY ID: APCD2026-SITE-05028 APPLICATION NO.: APCD2026-APP-009132 ENGINEER: Hawzhin Muhamed																	

CHEMICAL NAME	Emission Factor lb/1000 gal	Acute Emission Rate lb/hr	Annual Emission Rate lb/yr	Acute Emissions Rate g/s	Annual Emission Rate g/s	Hourly GLC µg/m ³	Annual GLC µg/m ³
DIESEL PARTICULATE			8.84E-01		1.27E-05		6.82E-04
ACETALDEHYDE	7.83E-01	4.50E-02	2.25E+00	5.67E-03		2.51E+00	
ACROLEIN*	3.39E-02	1.95E-03	9.75E-02	2.46E-04		1.09E-01	
ARSENIC COMPOUNDS	1.60E-03	9.20E-05	4.60E-03	1.16E-05		5.14E-03	
BENZENE	1.86E-01	1.07E-02	5.36E-01	1.35E-03		5.98E-01	
BUTADIENE, 1,3-	2.17E-01	1.25E-02	6.24E-01	1.57E-03		0.6967521	
CADMIUM AND COMPOUNDS	1.50E-03	8.63E-05	4.31E-03	1.09E-05		4.82E-03	
CHLOROBENZENE	2.00E-04	1.15E-05	5.75E-04	1.45E-06		6.42E-04	
CHROMIUM (HEXAVALENT)	1.00E-04	5.75E-06	2.88E-04	7.25E-07		3.21E-04	
COPPER AND COMPOUNDS	4.10E-03	2.36E-04	1.18E-02	2.97E-05		1.32E-02	
ETHYL BENZENE	1.09E-02	6.27E-04	3.13E-02	7.90E-05		3.50E-02	
FORMALDEHYDE	1.73E+00	9.93E-02	4.96E+00	1.25E-02		5.54E+00	
HEXANE-N	2.69E-02	1.55E-03	7.73E-02	1.95E-04		8.64E-02	
HYDROCHLORIC ACID	1.86E-01	1.07E-02	5.36E-01	1.35E-03		5.98E-01	
LEAD & COMPOUNDS	8.30E-03	4.77E-04	2.39E-02	6.01E-05		2.66E-02	
MANGANESE AND COMPOUNDS	3.10E-03	1.78E-04	8.91E-03	2.25E-05		9.95E-03	
MERCURY AND COMPOUNDS (INORGANIC)	2.00E-03	1.15E-04	5.75E-03	1.45E-05		6.42E-03	
NAPHTHALENE	1.97E-02	1.13E-03	5.66E-02	1.43E-04		6.33E-02	
NICKEL AND NICKEL COMPOUNDS	3.90E-03	2.24E-04	1.12E-02	2.83E-05		1.25E-02	
POLYCYCLIC AROM. HC (PAH) [Treat as B(a)P for	3.62E-02	2.08E-03	1.04E-01	2.62E-04		1.16E-01	
PROPYLENE	4.67E-01	2.69E-02	1.34E+00	3.38E-03		1.50E+00	
SELENIUM AND COMPOUNDS	2.20E-03	1.27E-04	6.33E-03	1.59E-05		7.06E-03	
TOLUENE	1.05E-01	6.06E-03	3.03E-01	7.64E-04		3.38E-01	
XYLENES	4.24E-02	2.44E-03	1.22E-01	3.07E-04		1.36E-01	

HARP2 - HRACalc (dated 22118) 6/17/2026 1:46:40 PM - Output Log

GLCs loaded successfully

Pollutants loaded successfully

RISK SCENARIO SETTINGS

Receptor Type: Resident

Scenario: All

Calculation Method: Derived

EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25

Total Exposure Duration: 30

Exposure Duration Bin Distribution

3rd Trimester Bin: 0.25

0<2 Years Bin: 2

2<9 Years Bin: 0

2<16 Years Bin: 14

16<30 Years Bin: 14

16 to 70 Years Bin: 0

PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True

Soil: True

Dermal: True

Mother's milk: True

Water: False

Fish: False

Homegrown crops: False

Beef: False

Dairy: False

Pig: False

Chicken: False

Egg: False

INHALATION

Daily breathing rate: RMP

****Worker Adjustment Factors****

Worker adjustment factors enabled: NO

Fraction at time at home

3rd Trimester to 16 years: OFF

16 years to 70 years: ON

SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.02

Soil mixing depth (m): 0.01

Dermal climate: Warm

TIER 2 SETTINGS

Tier2 not used.

Calculating cancer risk

Cancer risk saved to: D:\9132_Apres Little Italy\9132_RAST\resident_CancerRisk.csv

Calculating chronic risk

Chronic risk saved to: D:\9132_Apres Little

Italy\9132_RAST\resident_NCChronicRisk.csv

Calculating acute risk

Acute risk saved to: D:\9132_Apres Little Italy\9132_RAST\resident_NCAcuteRisk.csv

HRA ran successfully

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** POINT SOURCE DATA ***												
SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BLDG EXISTS	URBAN SOURCE	CAP/ HOR

STCK1	0	0.10000E+01	484139.7	3620712.2	13.1	10.67	743.15	29.08	0.36	YES	YES	HOR

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** MODEL SETUP OPTIONS SUMMARY ***

- ** Model Options Selected:
- * Model Uses Regulatory DEFAULT Options
 - * Model Is Setup For Calculation of Average CONCentration Values.
 - * NO GAS DEPOSITION Data Provided.
 - * NO PARTICLE DEPOSITION Data Provided.
 - * Model Uses NO DRY DEPLETION. DDPLETE = F
 - * Model Uses NO WET DEPLETION. WETDPLT = F
 - * Stack-tip Downwash.
 - * Model Accounts for ELEVated Terrain Effects.
 - * Use Calms Processing Routine.
 - * Use Missing Data Processing Routine.
 - * No Exponential Decay.
 - * Model Uses URBAN Dispersion Algorithm for the SBL for 1 Source(s),
for Total of 1 Urban Area(s):
Urban Population = 1400000.0 ; Urban Roughness Length = 1.000 m

- * Urban Roughness Length of 1.0 Meter Used.
- * Option for Capped & Horiz Stacks Selected With:
 - 0 Capped Stack(s); and 1 Horizontal Stack(s)
- * ADJ_U* - Use ADJ_U* option for SBL in AERMET
- * CCVR_Sub - Meteorological data includes CCVR substitutions
- * TEMP_Sub - Meteorological data includes TEMP substitutions
- * NOTURBST - Meteorological data Ignore turbulence - stable hours
- * Model Assumes No FLAGPOLE Receptor Heights.
- * The User Specified a Pollutant Type of: OTHER

**Model Calculates 1 Short Term Average(s) of: 1-HR
and Calculates PERIOD Averages

**This Run Includes: 1 Source(s); 1 Source Group(s); and 17825 Receptor(s)

- with: 1 POINT(s), including
 - 0 POINTCAP(s) and 1 POINTHOR(s)
- and: 0 VOLUME source(s)
- and: 0 AREA type source(s)
- and: 0 LINE source(s)
- and: 0 RLINE/RLINEXT source(s)
- and: 0 OPENPIT source(s)
- and: 0 BUOYANT LINE source(s) with a total of 0 line(s)
- and: 0 SWPOINT source(s)

**Model Set To Continue RUNning After the Setup Testing.

**The AERMET Input Meteorological Data Version Date: 24142

**Output Options Selected:

- Model Outputs Tables of PERIOD Averages by Receptor
- Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
- Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
- Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

**NOTE: The Following Flags May Appear Following CONC Values:

- c for Calm Hours
- m for Missing Hours
- b for Both Calm and Missing Hours

```
**Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =      9.00 ; Decay Coef. =      0.000      ; Rot. Angle =      0.0
                  Emission Units = GRAMS/SEC                  ; Emission Rate Unit Factor = 0.10000E+07
                  Output Units   = MICROGRAMS/M**3
```

```
**Approximate Storage Requirements of Model =      5.5 MB of RAM.
```

```
**Input Runstream File:      aermod.inp
```

```
**Output Print File:      aermod.out
```

****Detailed Error/Message File:** 9132_Apres.err

**File for Summary of Results: 9132_Apres.sum

*** AERMOD - VERSION 24142 *** *** D:\Modeling Projects\9132_Apres\9132_Apres.isc

*** 06/09/26

*** AERMET - VERSION 24142 ***

*** 17:16:45

PAGE 2

```
*** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
```

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***

(1=YES; 0=NO)

[illegible]

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** AERMOD - VERSION 24142 *** *** D:\Modeling Projects\9132_Apres\9132_Apres.isc

*** 06/09/26

*** AERMET - VERSION 24142 ***

*** 17:16:45

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: C:\Users\breeve\OneDrive - County of San Diego\Meteorology Documents\AERMET File Met Version: 24142

Profile file: C:\Users\breeve\OneDrive - County of San Diego\Meteorology Documents\AERMET File

Surface format: FREE

Profile format: FREE

Surface station no.: 23188 Upper air station no.: 3190

Name: SAN_DIEGO/LINDBERGH_FIELD Name: UNKNOWN

Year: 2019 Year: 2019

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN	ALBEDO	REF	WS	WD	HT	REF	TA	HT
19	01	01	1	01	-4.9	0.092	-9.000	-9.000	-999.	67.	14.3	0.04	0.56	1.00	1.40	356.	10.0	282.5	2.0			
19	01	01	1	02	-6.0	0.101	-9.000	-9.000	-999.	77.	15.7	0.04	0.56	1.00	1.55	336.	10.0	281.4	2.0			
19	01	01	1	03	-12.2	0.146	-9.000	-9.000	-999.	134.	23.5	0.04	0.56	1.00	2.18	357.	10.0	281.4	2.0			
19	01	01	1	04	-18.4	0.183	-9.000	-9.000	-999.	188.	36.8	0.05	0.56	1.00	2.64	26.	10.0	281.4	2.0			
19	01	01	1	05	-18.6	0.184	-9.000	-9.000	-999.	189.	37.1	0.05	0.56	1.00	2.64	31.	10.0	280.9	2.0			
19	01	01	1	06	-19.8	0.196	-9.000	-9.000	-999.	209.	42.4	0.05	0.56	1.00	2.81	40.	10.0	282.0	2.0			
19	01	01	1	07	-24.8	0.244	-9.000	-9.000	-999.	289.	65.5	0.05	0.56	1.00	3.47	26.	10.0	280.3	2.0			
19	01	01	1	08	-13.3	0.241	-9.000	-9.000	-999.	284.	95.5	0.05	0.56	0.49	3.39	18.	10.0	281.4	2.0			
19	01	01	1	09	28.7	0.255	0.486	0.005	145.	309.	-52.4	0.05	0.56	0.29	3.15	24.	10.0	284.2	2.0			
19	01	01	1	10	63.8	0.292	0.745	0.005	236.	379.	-35.5	0.05	0.56	0.22	3.52	28.	10.0	285.9	2.0			
19	01	01	1	11	87.7	0.290	1.135	0.005	606.	375.	-25.3	0.05	0.56	0.20	3.41	26.	10.0	287.0	2.0			
19	01	01	1	12	99.3	0.339	1.313	0.005	827.	474.	-35.7	0.05	0.56	0.19	4.07	45.	10.0	288.8	2.0			
19	01	01	1	13	93.9	0.516	1.334	0.005	918.	890.	-133.1	0.05	0.56	0.19	6.63	39.	10.0	288.8	2.0			
19	01	01	1	14	79.1	0.598	1.291	0.005	988.	1108.	-244.9	0.05	0.56	0.20	7.81	34.	10.0	288.8	2.0			
19	01	01	1	15	52.0	0.498	1.138	0.005	1031.	855.	-216.3	0.05	0.56	0.23	6.52	28.	10.0	288.8	2.0			
19	01	01	1	16	14.5	0.438	0.747	0.005	1042.	699.	-524.4	0.05	0.56	0.32	5.79	41.	10.0	288.1	2.0			
19	01	01	1	17	-30.2	0.339	-9.000	-9.000	-999.	481.	126.6	0.05	0.56	0.59	4.73	30.	10.0	286.4	2.0			
19	01	01	1	18	-16.7	0.173	-9.000	-9.000	-999.	196.	33.1	0.05	0.56	1.00	2.50	57.	10.0	285.9	2.0			
19	01	01	1	19	-22.0	0.219	-9.000	-9.000	-999.	246.	52.9	0.05	0.56	1.00	3.12	58.	10.0	284.8	2.0			
19	01	01	1	20	-29.8	0.297	-9.000	-9.000	-999.	388.	96.9	0.05	0.56	1.00	4.17	48.	10.0	284.2	2.0			
19	01	01	1	21	-23.1	0.230	-9.000	-9.000	-999.	266.	58.2	0.05	0.56	1.00	3.24	61.	10.0	283.8	2.0			
19	01	01	1	22	-33.5	0.332	-9.000	-9.000	-999.	459.	121.4	0.05	0.56	1.00	4.61	61.	10.0	283.1	2.0			
19	01	01	1	23	-33.4	0.332	-9.000	-9.000	-999.	459.	121.4	0.05	0.56	1.00	4.61	68.	10.0	283.8	2.0			

19 01 01 1 24 -29.1 0.289 -9.000 -9.000 -999. 373. 91.7 0.05 0.56 1.00 4.03 71. 10.0 283.1 2.0

First hour of profile data

YR MO DY HR HEIGHT F WDIR WSPD AMB_TMP sigmaA sigmaW sigmaV
19 01 01 01 10.0 1 356. 1.40 282.6 99.0 -99.00 -99.00

F indicates top of profile (=1) or below (=0)

*** AERMOD - VERSION 24142 *** D:\Modeling Projects\9132_Apres\9132_Apres.isc

*** AERMET - VERSION 24142 ***

*** 06/09/26
*** 17:16:45
*** PAGE 4

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (26304 HRS) RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
ALL	1ST HIGHEST VALUE IS	58.25089 AT (	484200.72, 3620703.80,	16.24, 16.24, 0.00)	DC
	2ND HIGHEST VALUE IS	58.04286 AT (	484199.93, 3620708.68,	16.35, 16.35, 0.00)	DC
	3RD HIGHEST VALUE IS	56.82692 AT (	484201.52, 3620698.92,	16.15, 16.15, 0.00)	DC
	4TH HIGHEST VALUE IS	55.99996 AT (	484199.13, 3620713.56,	16.46, 16.46, 0.00)	DC
	5TH HIGHEST VALUE IS	55.39373 AT (	484206.00, 3620700.00,	16.32, 16.32, 0.00)	DC
	6TH HIGHEST VALUE IS	55.23896 AT (	484206.00, 3620710.00,	16.42, 16.42, 0.00)	DC
	7TH HIGHEST VALUE IS	53.65535 AT (	484198.00, 3620693.29,	15.89, 15.89, 0.00)	DC
	8TH HIGHEST VALUE IS	53.64782 AT (	484202.31, 3620694.04,	16.11, 16.11, 0.00)	DC
	9TH HIGHEST VALUE IS	52.48105 AT (	484193.69, 3620692.55,	15.63, 15.63, 0.00)	DC
	10TH HIGHEST VALUE IS	52.16993 AT (	484198.34, 3620718.45,	16.56, 16.56, 0.00)	DC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** AERMOD - VERSION 24142 *** D:\Modeling Projects\9132_Apres\9132_Apres.isc

*** 06/09/26

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **												
GROUP ID		AVERAGE CONC		DATE (YYMMDDHH)		RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)				OF TYPE		NETWORK GRID-ID

ALL	HIGH	1ST HIGH VALUE IS	443.18068	ON 20100203: AT (	484152.35,	3620700.39,	13.74,	13.74,	0.00)	DC		

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** Message Summary : AERMOD Model Execution ***

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)
A Total of 2 Warning Message(s)
A Total of 683 Informational Message(s)

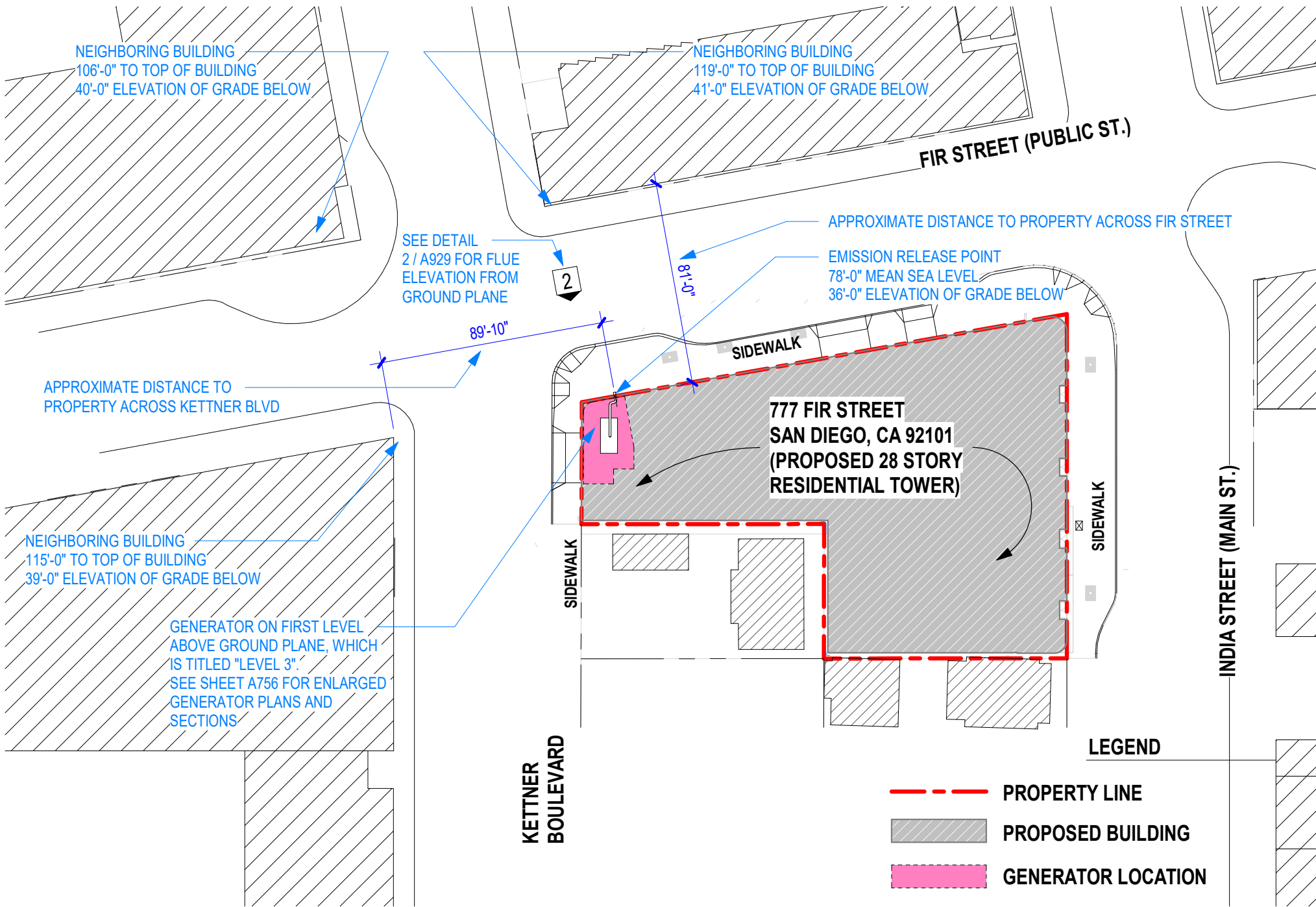
A Total of 26304 Hours Were Processed

A Total of 249 Calm Hours Identified

A Total of 433 Missing Hours Identified (1.65 Percent)

***** FATAL ERROR MESSAGES *****
*** NONE ***

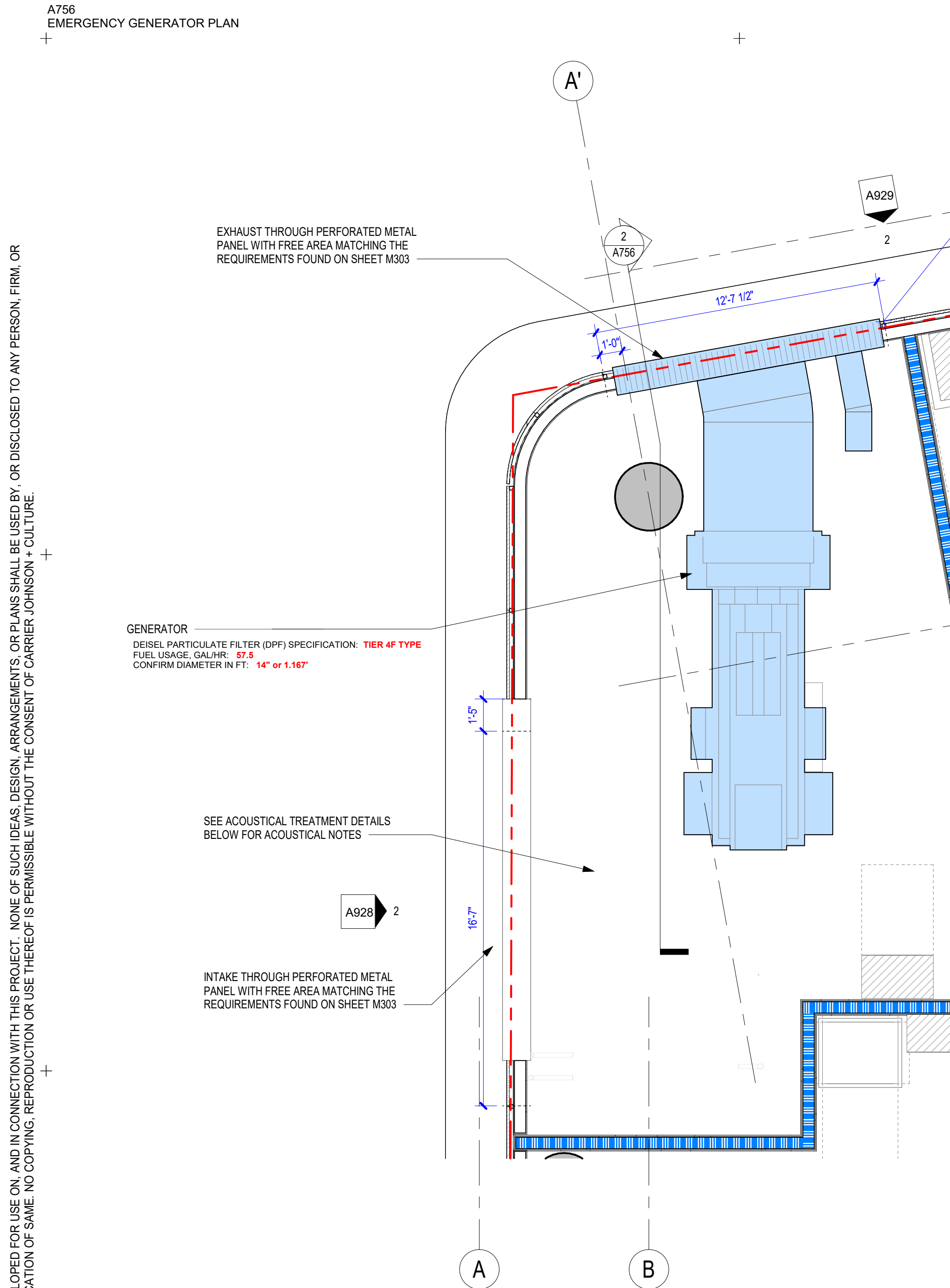
***** WARNING MESSAGES *****
ME W186 101 MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used 0.50
ME W187 101 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET



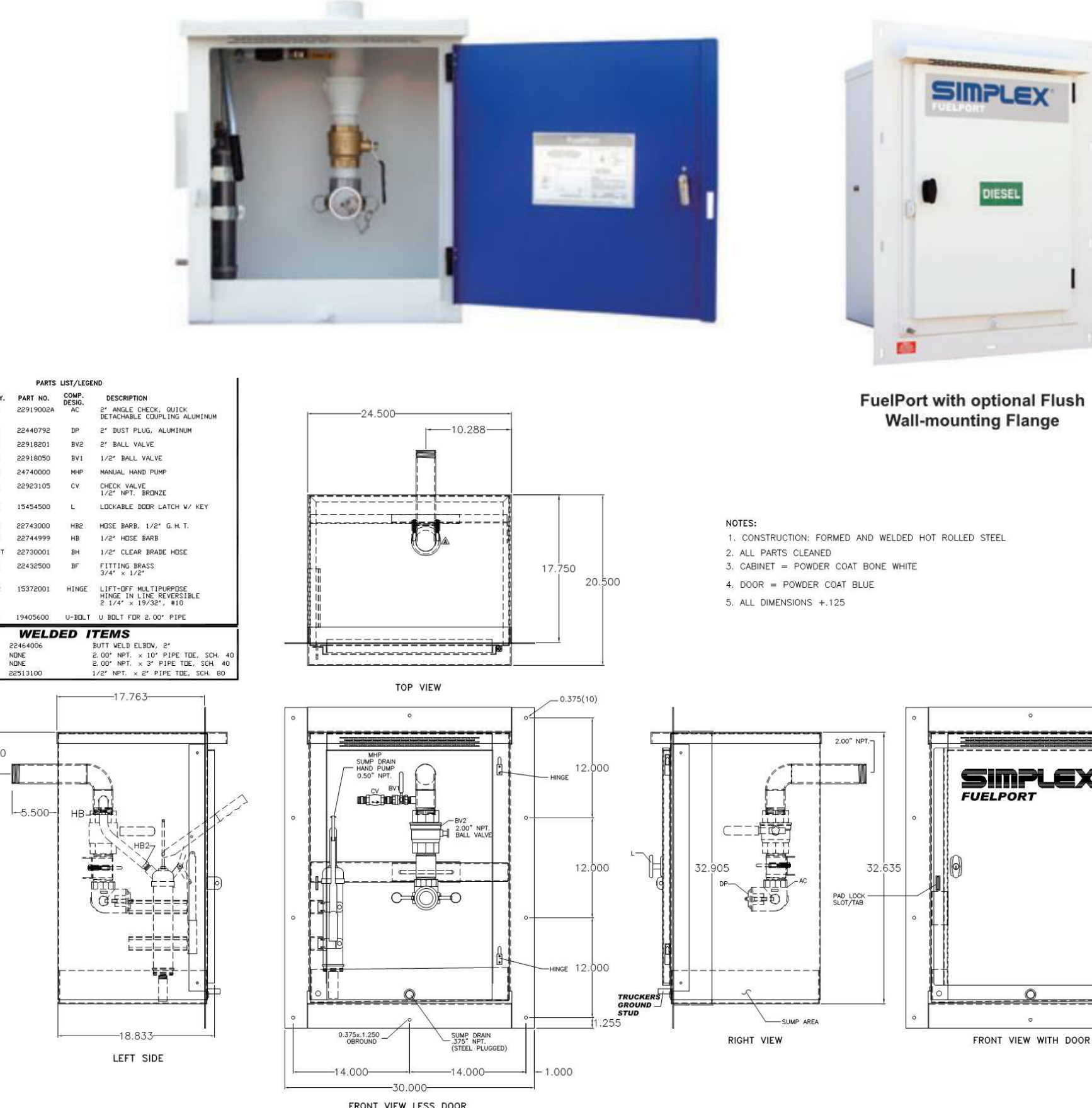
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SAN DIEGO, CA, 92101

APCD FACILITY PLOT PLAN

carrierjohnson + CULTURE
185 W F Suite 500, San Diego, CA 92101
Phone 619.239.2353

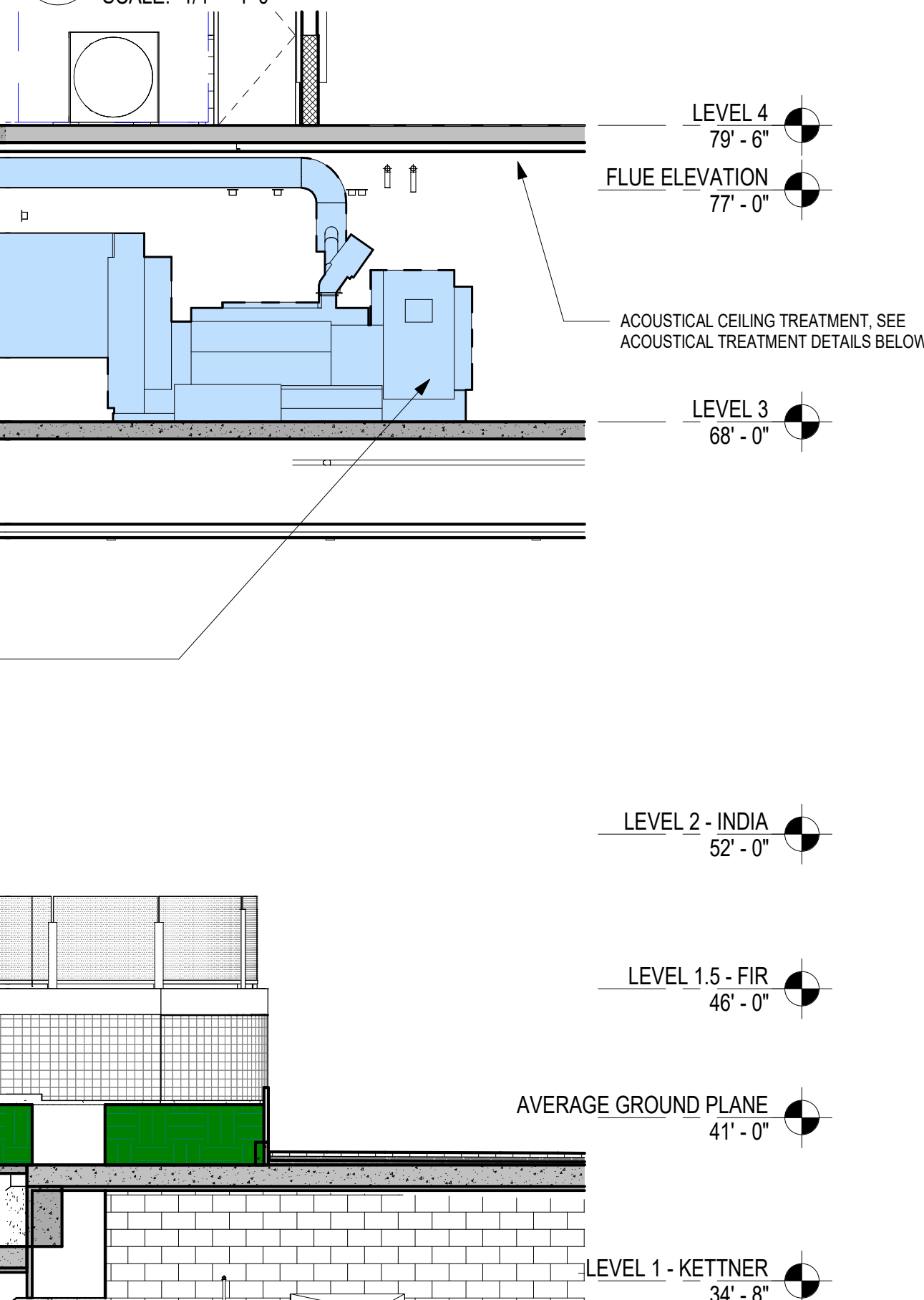


3 LEVEL 3 - ENLARGED GENERATOR FLOOR PLAN
SCALE: 1/4" = 1'-0"

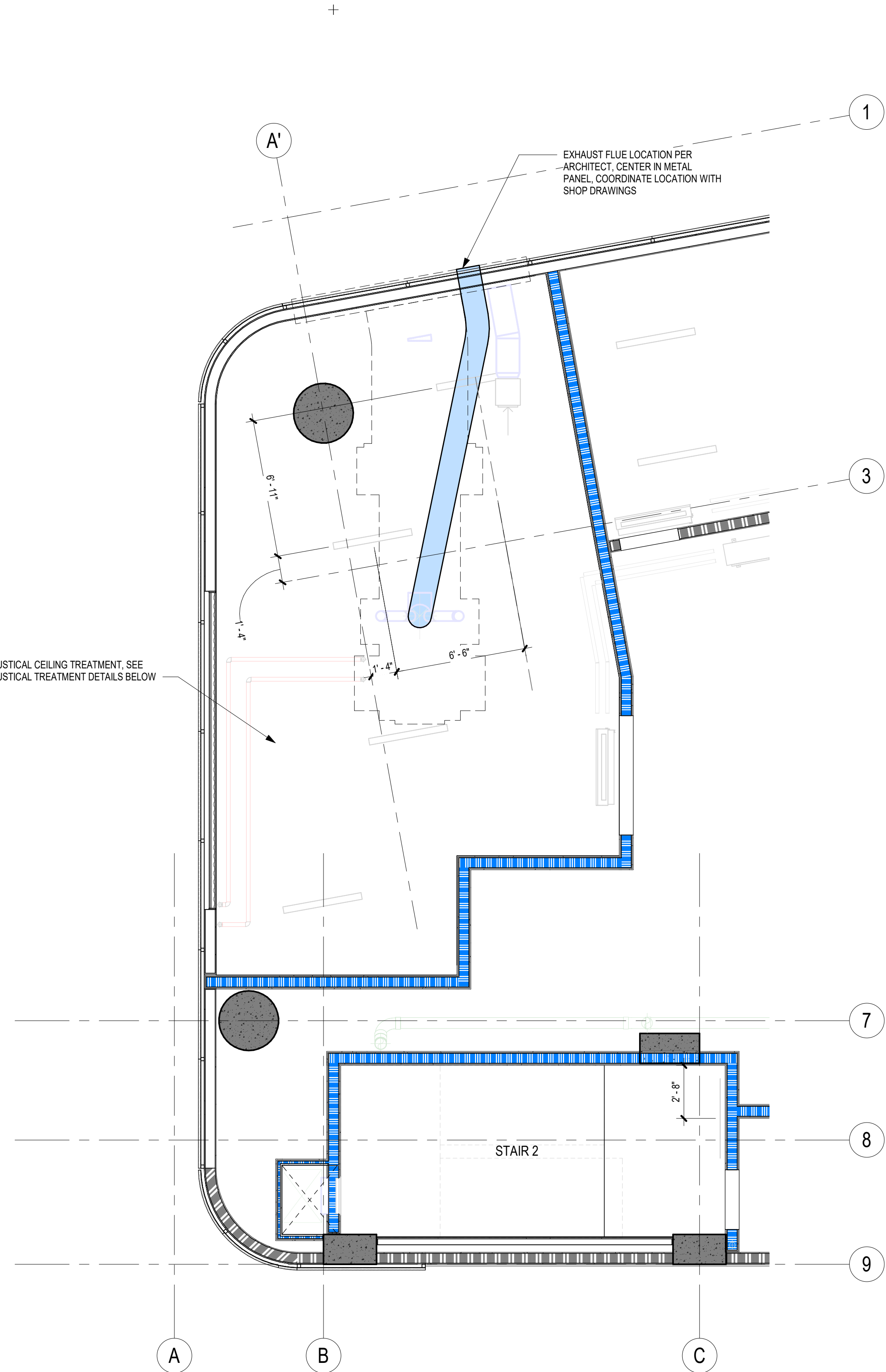


A EMERGENCY GENERATOR - REMOTE FUEL PANEL
NOTE: THIS REMOTE FUEL PANEL IS STILL UNDER REVIEW AND THE ABOVE PRODUCT IS NOT FINALIZED

1 LEVEL 3 - ENLARGED GENERATOR REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"



2 SECTION THROUGH GENERATOR ROOM
SCALE: 3/16" = 1'-0"



EMERGENCY GENERATOR GENERAL NOTES

EMERGENCY GENERATOR CONSTRUCTION:
STANDBY EMERGENCY POWER SYSTEM GENERATOR SET SHALL BE LOCATED IN A SEPARATE ROOM ENCLOSED WITH 2-HOUR FIRE-RATED FIRE BARRIER WALL, ASSEMBLIES AND HORIZONTAL ASSEMBLIES.

ACCESS DOORS:
DOORS PROVIDING ACCESS INTO THE EMERGENCY GENERATOR ROOM SHALL BE 1 1/2-HOUR FIRE DOOR ASSEMBLIES. DOORS SHALL SWING OUT, BE SELF-CLOSING, AND BE EQUIPPED WITH PANIC HARDWARE, AND SMOKE SEALS AROUND DOOR EDGES.

THROUGH PENETRATIONS:
THROUGH PENETRATIONS SHALL BE PROTECTED BY AN APPROVED PENETRATION FIRESTOP SYSTEM AND SHALL HAVE AN F RATING OF NOT LESS THAN 2-HOURS.

FUEL LINE PIPING PROTECTION:
FUEL LINES SUPPLYING A GENERATOR SET INSIDE A BUILDING SHALL BE SEPARATED FROM AREAS OF THE BUILDING OTHER THAN THE ROOM THE GENERATOR IS LOCATED IN BY AN APPROVED ASSEMBLY THAT HAS A FIRE-RESISTANCE RATING OF NOT LESS THAN 2-HOURS, OR NOT LESS THAN 1-HOUR WHERE A BUILDING IS PROTECTED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM.

REMOTE FUEL FILL PANEL:
PANEL SHALL BE RECESS MOUNTED IN WALL WITH TOP OF PANEL LOCATED 2'-10" ABOVE FINISH GRADE. PANEL SHALL INCLUDE ALL VALVES AND FITTINGS NECESSARY FOR HOSE CONNECTION FROM A PUMPER TRUCK. PANEL SHALL BE A WEATHERPROOF, LOCKABLE BOX WITH SPILL CONTAINMENT, SIMPLEX COMPACT FUEL PORT OR EQUAL.

EMERGENCY GENERATOR SET:
DOUBLE WALL BELLY DIESEL FUEL STORAGE TANK WITH SECONDARY SPILL BASIN, REFER TO ELECTRICAL DRAWINGS FOR SIZING AND ADDITIONAL INFORMATION. INSTALL ON A 6" HIGH CONCRETE HOUSEKEEPING PAD. EMERGENCY GENERATOR SHALL BE A DEFERRED SUBMITTAL, REQUIRING A SEPARATE SUBMITTAL TO THE LOCAL AUTHORITIES HAVING JURISDICTION FOR ALL REQUIRED PLAN CHECKS, REVIEWS, APPROVALS AND PERMITS.

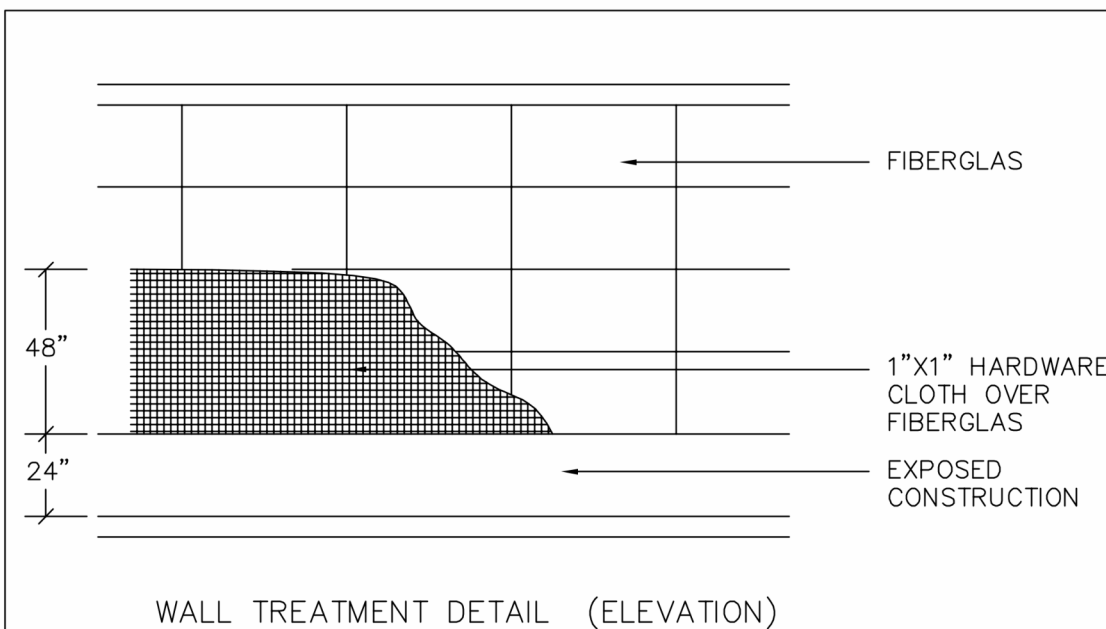
MAXIMUM ALLOWABLE QUANTITY OF HAZARDOUS MATERIALS PER CONTROL AREA:
IN ACCORDANCE WITH GFC TABLE 503.1.1(1), THE MAXIMUM QUANTITY OF TYPE I COMBUSTIBLE LIQUID PER CONTROL AREA IN A BUILDING IS 120 LIQUID GALLONS WITH THE EXCEPTION OF FOOTNOTE 1 TO TABLE 503.1.1(1) (EXHIBIT 1), WHICH ALLOWS THE MAXIMUM ALLOWABLE QUANTITY LIMIT TO NOT APPLY TO FUEL OIL (I.E. DIESEL FUEL) STORAGE COMPLYING WITH SECTION 603.3.2. EXHIBIT 1 - FOOTNOTE 1 REFERENCE IN TABLE 503.1.1(1).

FUEL OIL STORAGE INSIDE BUILDINGS:
IN ACCORDANCE WITH GFC SECTION 603.3.2.1, ONE OR MORE FUEL OIL STORAGE TANKS CONTAINING CLASS II (E.G. DIESEL FUEL) OR III COMBUSTIBLE LIQUID ARE PERMITTED IN A BUILDING. THE AGGREGATE CAPACITY OF SUCH TANKS SHALL NOT EXCEED 660 GALLONS. THE DIESEL TANK TO THE GENERATOR OF THE PROJECT IS INDICATED TO BE 750 GALLONS AND THEREFORE EXCEEDS THIS CAPACITY LIMIT.
HOWEVER, PER EXCEPTION 603.3.2.1, THE AGGREGATE CAPACITY IS PERMITTED TO BE INCREASED TO 3,000 GALLONS OF DIESEL FUEL STORAGE IN PROTECTED ABOVE-GROUND TANKS COMPLYING WITH SECTION 5704.2.8.7. NOTE THAT "ABOVE-GROUND" DOES NOT MEAN THAT THE TANK HAS TO BE INSTALLED OUTSIDE. IN PLAN REVIEW COMMENT 3 WHERE THE REFERENCE TO FUEL STORAGE OUTSIDE THE BUILDING IS NOT ACCURATE IN THE CONTEXT OF APPLYING THE REQUIREMENTS AND EXCEPTION TO SECTION 603.3.2.1, CONDITION 3 TO THIS EXCEPTION INDICATES THAT THESE TANKS ARE TO BE LOCATED IN A ROOM PROTECTED BY AN AUTOMATIC SPRINKLER SYSTEM. THE IFC COMMENTARY INDICATES THAT WHERE THE NEED FOR AN AGGREGATE INDOOR STORAGE OF FUEL OIL CONNECTED TO A CLOSED FUEL OIL PIPING SYSTEM EXCEEDS THE SPECIAL AMOUNT OF 660 GALLONS, THE EXCEPTION MAY BE APPLIED.
TO APPLY THIS EXCEPTION AND NOT CLASSIFY THE GENERATOR FUEL STORAGE ROOM INSIDE THE BUILDING AS A GROUP H OCCUPANCY, THE TANK MUST BE LISTED IN ACCORDANCE WITH UL 2086. AND WE HAVE USED UL 2086 BELLY TANK FOR THIS PROJECT.

EMERGENCY GENERATOR KEYNOTES

E01	EMERGENCY GENERATOR ROOM ENCLOSURE, 2-HOUR FIRE-RATED
E02	ACCESS DOOR, 1 1/2-HOUR FIRE-RATED
E03	REMOTE FUEL FILL PANEL, REFER TO DETAIL A THIS SHEET
E04	EMERGENCY GENERATOR SET ON 6" HIGH CONCRETE HOUSEKEEPING PAD, REFER TO ELECTRICAL DRAWINGS
E05	PROVIDE PEDESTRIAN TRAFFIC COATING AT FLOOR AND UP 6" HIGH ON CONCRETE CURBS / CONCRETE WALLS / CMU WALLS

ACOUSTICAL TREATMENT



ACOUSTICAL TREATMENT	
WALL	CEILING
4" THICK BLACK FACED RIGID INSULATION BOARD ATTACHED AS INDICATED ABOVE	4" THICK BLACK FACED RIGID INSULATION BOARD WITH 100% CEILING COVERAGE

NOTE:
1) ATTACH FIBERGLAS BY MECHANICAL FASTENERS. THE FASTENERS SHALL BE CONSTRUCTED SO THAT NO SHARP POINTS OR EDGES SHALL PROTRUDE THROUGH THE ACOUSTICAL MATERIAL. PROTECTIVE ENDCAPS SHALL BE UTILIZED OVER SPINDLE FASTENERS. FASTENERS SHALL BE LAID OUT IN A REGULAR GRID PATTERN APPROVED BY THE ARCHITECT. THE FASTENERS SHALL BE GEMCO INSULATION HANGERS OR APPROVED EQUAL, WITH ALUMINUM DOME CAP (UNPAINTED ALUMINUM STANDARD, COLOR AVAILABLE ON SPECIAL ORDER) AS DISTRIBUTED BY WESTERN WELDING SYSTEMS (800) 292-2215.
2) PREPARE SURFACE AND ATTACH FASTENERS WITH AN ADHESIVE ACCORDING TO MANUFACTURE'S WRITTEN INSTRUCTIONS. USE OF SELF ADHESIVE TAPE TO ATTACH FASTENERS IS NOT PERMITTED.
3) HARDWARE CLOTH STOPS 6" ABOVE FINISHED FLOOR.

EMERGENCY GENERATOR ROOM ACOUSTICAL TREATMENT DETAIL
VENKILASSEN ASSOCIATES
605 N. 10TH ST. SUITE 100
SAN ANTONIO, TEXAS 78207
TEL: 214.591.1111 FAX: 214.591.1112
WWW.VENKILASSEN.COM

ISSUES:
NO. DESCRIPTION DATE
1 PERMIT SUBMITTAL 1 03/24/2025

PRELIMINARY NOT FOR CONSTRUCTION

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PLOT DATE: 4/22/2026 10:16:41 PM
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EMERGENCY GENERATOR PLAN

DRAWING NO:

A756

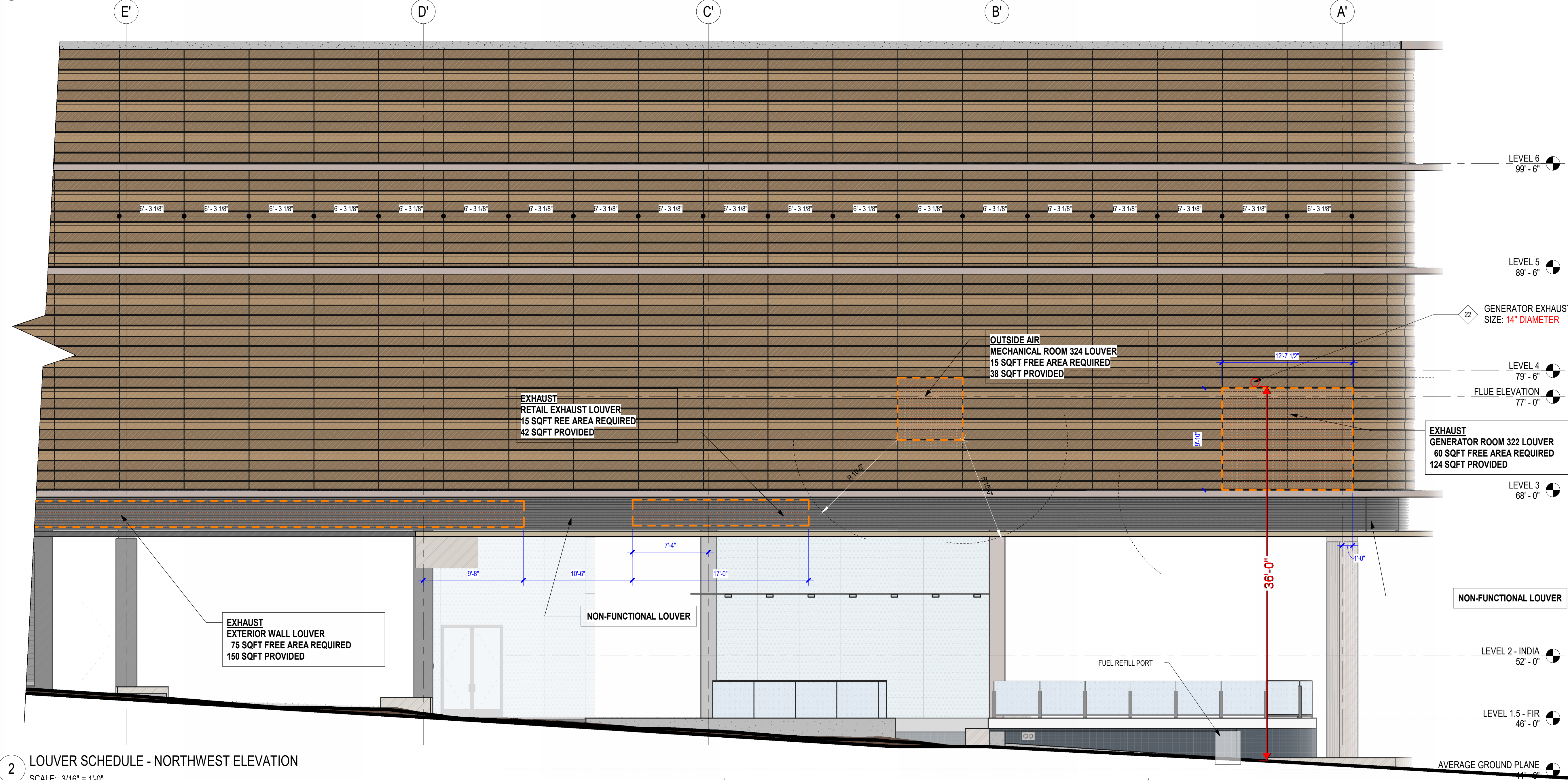
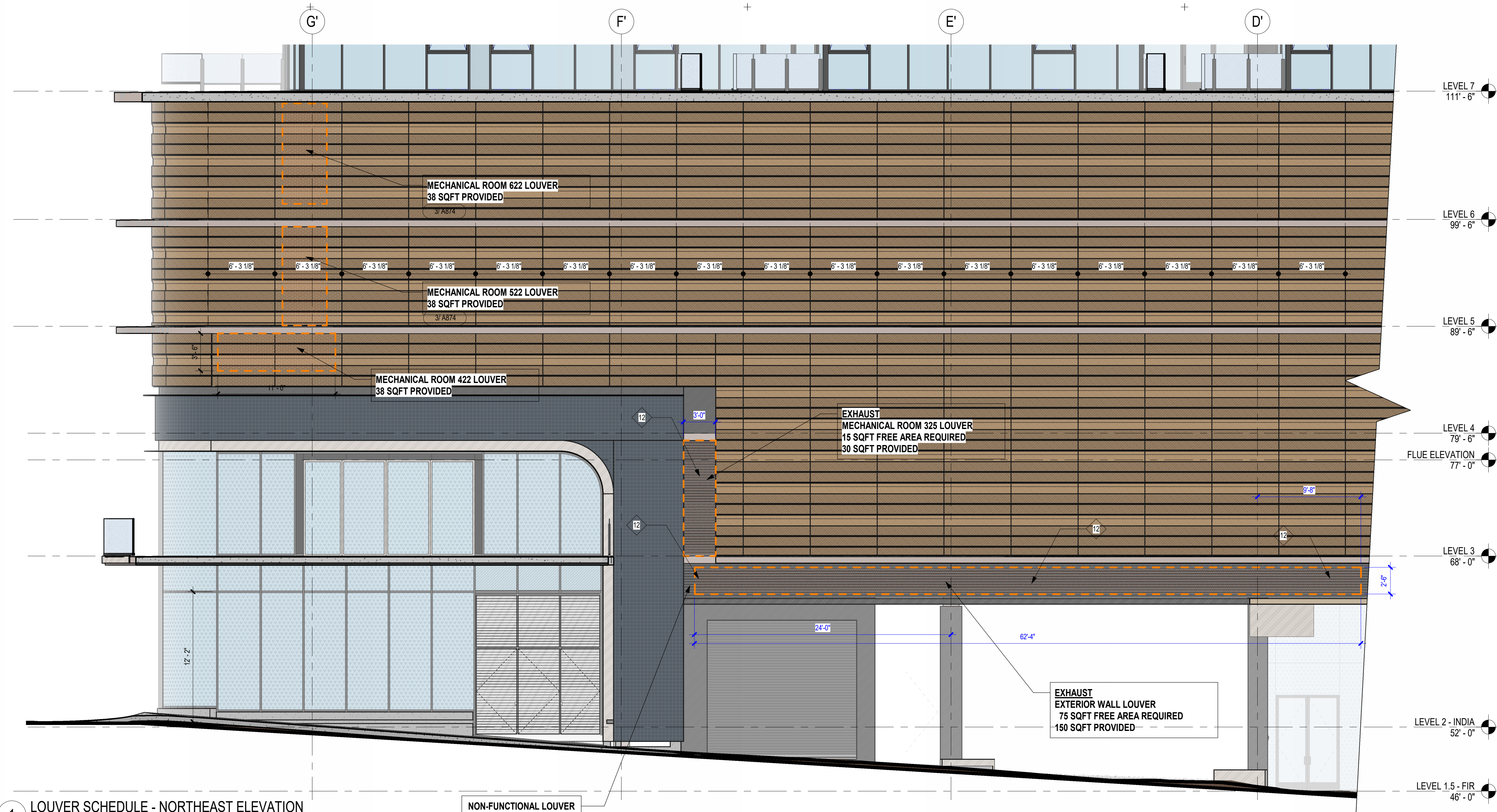
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777 FIR ST
SAN DIEGO, CA, 92101

carrierjohnson + culture
architecture + interior architecture + brand strategy + graphics

185 F St #500, San Diego, CA 92101
phone 619.239.2553

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ELEVATION / SECTION KEYNOTES	
01	EXPOSED ARCHITECTURAL CONCRETE (CONTINUOUS, TRUE & SMOOTH ARCHITECTURAL CONCRETE, SACK & PATCH); APPLY CLEAR WATER REPELLENT
02	TYPICAL SOFFIT MOUNTED MONORAIL, REFER TO FACADE ACCESS DRAWINGS, SEE DETAIL 10 / A867
03	STOREFRONT SYSTEM PER SCHEDULE
04	SOFFIT MOUNTED MECHANICAL VENT, SEE MECHANICAL DRAWINGS
05	WINDOW WALL SYSTEM PER SCHEDULE
06	SIMULATED WOOD PANEL SIDING
07	EXPOSED ARCHITECTURAL CONCRETE, APPLY CLEAR WATER REPELLENT
08	METAL PANEL SIDING (DARK GREY)
09	GLASS GUARDRAIL
10	OVERHEAD COILING DOOR - COLOR TO MATCH ADJACENT MATERIAL - AT LEAST 80% SOLID SCREENING
11	BUILDING ADDRESS SIGNAGE
12	VENT PER MECHANICAL, PAINT TO MATCH WALL
13	ARCHITECTURAL LOUVER
14	ARCHITECTURAL MECHANICAL SCREEN - AT LEAST 80% SOLID SCREENING
15	METAL PANEL CANOPY
16	METAL FRAME
17	CURTAIN WALL SYSTEM
18	BACKFLOW ROOM DOOR - AT LEAST 80% SOLID SCREENING
19	EXHAUST TO TERMINATE NOT LESS THAN 10'-0" ABOVE THE PUBLIC WALKWAY
20	GENERATOR EXHAUST FLUE, CENTER IN METAL PANEL

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SAN DIEGO, CA, 92101

ISSUES:		
NO.	DESCRIPTION	DATE
1	PERMIT SUBMITTAL 1	03/24/2025

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TITLE:	

LOUVER
SCHEDULE -
NORTH

DRAWING NO:

Galvez, Maria

From: Muhamed, Hawzhin S
Sent: Tuesday, May 12, 2026 5:52 PM
To: Reeve, Bill
Cc: Nguyen, Tony; Canter, Adam; Horres, Nicholas
Subject: 9132_Apres Little Italy- HRA Request EXPEDITED
Attachments: APP009132_Calculation.xlsm; India & Fir Generator Plot Map v2.pdf; 777 Fir Google image with markups.pdf

Hi Bill,

This is an expedited HRA request for a new emergency diesel engine equipped with Mira tech DOC/ DPF, the engine's exhaust will vent horizontally from the side of the building with no valve installed .

Please post the results in ☐ [9132_Apres Little Italy](#)

Please let me know if more information is needed.

Thank you.
Hawzhin