ZONING BOARD OF APPEALS Town of Orangetown 20 Greenbush Road Orangeburg, New York 10962 (914) 359-8410 (ex. 4331) Date: August 12, 2020 TO: OBAPAE
Environmental Management and Engineering—Rockland County Drainage Rockland County Sewer District #1 New York State Dept. of Transportation Palisades Interstate Park Commission Orange and Rockland Utilities Orangetown Highway Rockland County Health Rockland County Planning Rockland County Highway
Fire Prevention (Performance Standards) Review of Plans: replacement of emergency generator for Verizon, 179 North Middletown Road, Pearl River, NY Section 68.12 Block 4 Lot 17 CC zone This matter is scheduled for:
Chapter 43, CC District, Section 4.11, (Performance Standards Review for an emergency generator)
Please review the information enclosed and provide comments. These comments may be mailed, e-mailed or faxed to the Zoning Board Office.
If your Agency does not have any comments at this time, please respond to this office by sending back this sheet. • US Postal: 20 South Greenbush Road, Orangeburg, NY 10962 • Email to Zoning Board: darbolino@orangetown.com or • Fax to the Town of Orangetown ZBA @845 359 8526
Zoning Board Meeting Date: October 7, 2020
 () Comments attached () No Comments at this time. Please send future correspondence for review. () No future correspondence for this site should be sent to this agency. Plans reviewed and this agency does not have any further comments. () This project is out of the jurisdiction of this agency and has no further comments.
This project is before the Zoning Board on <u>Wednesday, October 7, 2020</u> . Kindly forward your completed review to this office by October 7, 2020.
Reviewing Agency
Namedate:

Thank you, Deborah Arbolino

Signature:_

Name of Municipality: <u>TOWN OF ORANGETOWN</u>

Date	Submitted:	
	Oubillition.	

2020 LAND USE BOARD APPLICATION

nat apply:	
Residential	
Historical Board Architectural Board	4
Architectural Board	"
Consultation	
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Zoning District CCL Postal District	
Postal District Fire District	

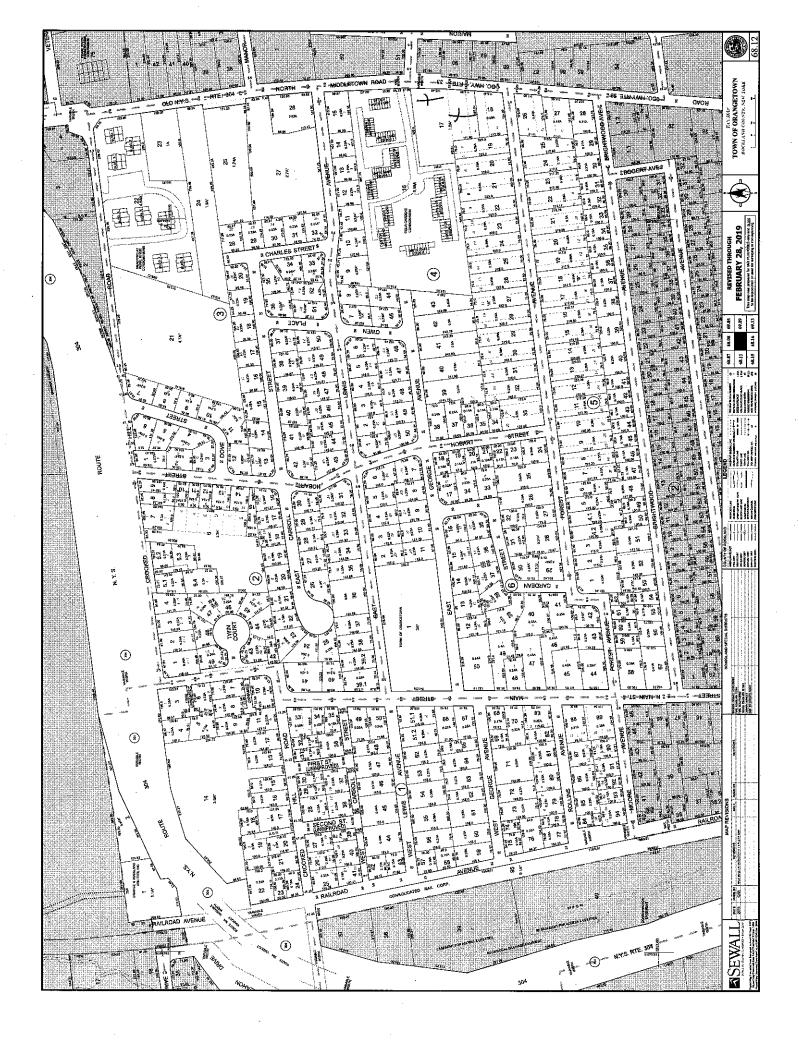
APPLICATION REVIEW FORM

Applicant: FINK MUOIO	Phone #_ 9/4 76 3	2-5920
Address: 24 N. GReela Age C Street Name & Number (Post Office)	Happagua NY	10514
Property Owner: VERIZO INC/JC Address: 179 Mi DDb Tocero PD Street Name & Number (Post Office)	CHNMANCELN 917-61	13-0219
Street Name & Nurrhber (Post Office)	City State	Zip Code
Engineer/Architect/Surveyor: ARTHUR R. BRE	EAUER PE, PLLC Phone #P14-238-:	5433
Address: 24 N. GREELEY AVENUE Street Name & Number (Post Office)	CHAPPAQUA NY	10514
Street Name & Number (Post Office)	City State	Zip Code
Attorney:	Phone #	
Address:	City State	Zip Code
Address: Street Name & Number (Post Office) Frunk	160 City State	·
Contact Person: Frank Muoro	Phone # 914 · 263 -	5920
Address: 24 N GD CCC Are C Street Name & Number (Post Office)		
This property	CIPAL LAW REVIEW: is within 500 feet of: all that apply)	
IF ANY ITEM IS CHECKED, A REVIEW MUST BE D PLANNING UNDER THE STATE GENERAL M	ONE BY THE ROCKLAND COUNTY CO IUNICIPAL LAW, SECTIONS 239 L, M,	MMISSIONER OF N, AND NN.
State or County Road Long Path Municipal Boundary	State or County Park County Stream County Facility	
List name(s) of facility checked above:		
Referral Agencies:		
RC Highway Department RC Drainage Agency NYS Dept. of Transportation NYS Thruway Authority Adjacent Municipality Other	RC Division of Environmental Resort RC Dept. of Health NYS Dept. of Environmental Conset Palisades Interstate Park Commissi	rvation

APPLICATION REVIEW FORM

FILL IN WHERE APPLICABLE. (IF THE FOLLOWING DOES NOT APPLY PLEASE MOVE ON TO THE NEXT PAGE)

lf subdivis	sion:
1)	Is any variance from the subdivision regulations required?
2)	Is any open space being offered? If so, what amount?
3)	Is this a standard or average density subdivision?
lf site plar	n:
1)	Existing square footage
2)	Total square footage
3)	Number of dwelling units
lf special —	permit, list special permit use and what the property will be used for.
 Environm	ental Constraints:
and net area	pes greater than 25%? If yes, please indicate the amount and show the gross
	eams on the site? If yes, please provide the names
Are there we	tlands on the site? If yes, please provide the names and type:
Project Hi	story:
Has this proje	ect ever been reviewed before? NO
If so, provide	a narrative, including the list case number, name, date, and the board(s) you appeared
before, and tl	ne status of any previous approvals.
_	
_	section, block & lot numbers for all other abutting properties in the same ownership as
this project.	EE ATTACHED LIST
	EL AT INCHED LIST





OFFICE OF BUILDING, ZONING, PLANNING, ADMINISTRATION AND ENFORCEMENT TOWN OF ORANGETOWN

20 Greenbush Road Orangeburg, N.Y. 10962

Jane Slavin, R.A. Director

(845)359-8410

Fax: (845) 359-8526

DENIAL TO THE ZONING BOARD OF APPEALS

Date: July 17, 2020
Applicant: Verizon John Mangan
Address: 179 N Middletowon Rd, Pearl River, NY
RE: Application Made at: same
Chapter 43, Section 4.11 Performance Standards required
Section: 68.12 Block: q4 Lot: 17
Dear Verizon John Mangan
Please be advised that the Building Permit Application, which you submitted on
July 9, 2020 , has been denied. I have enclosed a Xerox copy of your application, where you will find at the bottom the reason for denial.
In Accordance with Zoning, Chapter 43 Section 10.322 the time to appeal a determination of a Building Inspector or Similar administrative office is thirty (30) days from the filing of such a determination with the Town Clerk.
The Clerk to the Zoning Board of Appeals, Debbie Arbolino, will assist you in the preparation necessary to appear before the board. Sincerely:
Richard Ollver Deputy Building Inspector United 1 9 1020
Signature of Director NOTE: PLEASE KEEP FOR YOUR REPORDS 12-31-18-CCC Date CC: Rosanna Sfraga Liz Decort Debbie Arbolino

PERMIT EXPIRES TWO (2) YEARS FROM DATE OF ISSUANCE. TWO SIX (6) MONTH EXTENSIONS MAY BE GRANTED PRIOR TO EXPIRATION DATE. APPLICATION FOR BUILDING / DEMOLITION PERMIT

PERMIT EXPIRES TWO (2) YEARS FROM DATE OF ISSUANCE.	FOR
TWO SIX (6) MONTH EXTENSIONS MAY BE GRANTED PRIOR TO EXPIRATION DATE. <u>APPLICATION FOR BUILDING / DEMOLITION PERMIT</u>	R OFFICE
TOWN OF ORANGETOWN 20 Greenbush Road, Orangeburg, NY 10962 Phone: (845) 359-8410 Fax: (845) 359-8526	스
ZONE: CC/ (MV) OFFICIAL USE ONLY ACREAGE: 1.58	
Inspector: Mike Date App Received: 79700 Received By:61na	S
Permit No. 50300 Date Issued:	SECTION
·	7
CO No Date Issued: Permit Fee: \$11382	2
Permit Pee: \$1105 Ck# 475.) Paid By TH WWW KY WULL PE	
Stream Maintenance Fee Ck# 42 85 Paid By	
official maintenance i ee Ok# 10 A J Falu by	
Additional Fee: Ck# Date Paid Paid By	BLOCK
Additional Fee: Ck# Date Paid Paid By RECEIVED	Ř
2 nd 6 mo. Ext.: Ck # Exp. Date: Paid By Unit (10 9 2020	
JUL 0 9 2020	
APPLICANT COMPLETES: TOWN OF GRANGETOWN Note: See inside for instructions for completing this application DEPARTMENT	
PAGES 2, 3 and PAGE 4 must be reviewed and PAGES 3 & 4 must signed by the applicant.	5
179 N. Middletown Road Property Location:] '
Section: 68.12 Block: 4 Lot: 17	
Verizon New York Inc	
Mailing Address: 64 Maple Avenue, New City, NY 10956	
Email: john.j.mangan@verizon.com Phone #: 917-613-0219	Z
Lessee (Business Name): None	NAME
Mailing Address:	m
Email:Phone #: Type of Business /Use: Telephone Communications-Central Office	
Contact Person: John Mangan Relation to Project: Project Manager Email: john, j.mangan@verizon.com Phone#: 917-613-0219 Architect/Engineer: Arthur R. Breuer, PE, LLC NYS Lic # 62068 Address: 24 N Greeley Ave, Chappaqua, NY 10514 Phone#: 914-238-5433	
Architect/Engineer: Arthur R. Breuer, PE, LLC NYS Lic # 62068	
Address: 24 N Greeley Ave, Chappaqua, NY 10514 Phone# 914-238-5433	
Builder/General Contractor: シュルモミ E. FitzgeralD, IAC RC Lic#	
Address: 48 WEST 384 STreet 94 FL NY. N.Y. Phone#: 646 - 864 - 4547	
Plumber:RC Lic #	
Address: Phone#:	
Electrician:RC Lic #:	
Address:Phone#:	
Heat/Cooling:RC Lic#:	
Address:Phone#:	
Address:Phone#:Phone#:	
Proposed Project Description: Replace an existing 200 KW generator located on the 1st floor inside the building with a 600KW generator	PE
Replace all changes are the general recalled on the factors instance and the changes are the control of the changes are the control of the changes are the cha	PERMIT#
Proposed Square Footage: Estimated Construction Value (\$): \$625,000	#11
Proposed Square Footage: Estimated Construction Value (\$): BUILDING DEPARTMENT COMPLETES BELOW	
	1
PLANS REVIEWED:	
PERMIT REFERRED / DENIED FOR: Manda 43, Section 4.11	
Perfermance Standardo Leview segues.	
MANIA	
1 1 1 1 1 1 1 1 1 1 1 1 Page 1	.

Application Instructions

This application is to define equipment and operations for a new or existing facility or process to determine applicability to Town of Orangetown Performance Standards. The information herein is required for the Town Zoning Board to make such determination regarding the Applicant's proposed use of the land.

Do not start work before obtaining necessary permits to avoid subjecting the Applicant and contractors engaged in The Project to enforcement action, which could include: 1) civil or criminal court action, or both; 2) fines; 3) an order to remove structures or materials or perform other remedial action; or 4) both a fine and an order.

If the facility has existing and applicable local, county, state or federal permits, licenses or certifications, copies of such are to be listed below and included in this application.

PROJECT NAME:

Type of Permit e.g., air, water, waste, etc. | Ocal, county, state, federal | Ocal, county,

The Applicant must provide information and background showing the derivation of anticipated air emissions, water discharges and waste disposal, appropriate to the Projects' applicability to Town Performance Standards.

This PDF document is based on Microsoft's Excel format converted to PDF. Data can be entered directly into the areas designated, or the application may be printed and filled in by hand. To fill in electronically, open this document in Adobe Acrobat, click on "Typewriter" under "Tools", and begin typing. Font size is restricted. Additional pages can be included in the application.

This Application is required for the Town to make a determination regarding the applicant's proposed use of the land and buildings. Attach Additional Sheets as Needed.

		Certification a	nd Ideni	tification	n Inform	ation	
Type of Action/Application: Place an "X" to the left of the appropriate categories. New Significant Modification Other: Renewal Administrative Amendment Minor Action Major Action							
PROJECT N	AME: RE	PLACE EMERGENCY S	ΓAND BY G	ENERATOR			
submitted he	erein in th Iuals respo	of law that I have per is application, and inf onsible for obtaining t aplete.	ormation i	n support o	of it , and t	hat based o	on my inquiry of
Responsible Print	Official: _{JC}	OHN MANGAN			Title: PRO	JECT MAN	AGER
Signature:					Date: 7/2	2/2020	
Phone: 917-6	513-0219		Email: ^{JOH}	IN.J.MANG	AN@VERIZ	ON.COM	
Facility Nam Facility Addre Owner Name Street: 64 Ma City/Town:	ess: ¹⁷⁹ N ess: Verizon N	n New York, Inc Central T	elephone Off	<u> </u>	ZIP: ¹³⁻⁵²⁷⁵	5510 vince: New	York
Ownership:	Х	Corporation			Individual		
Place "X" to left of box		Partnership	Other:				, ,
	Owner/Firm/Facility Contact						
Name:						Phone:	
Street Address: Fax:							
City/Town:						ZIP:	
State/Province	ce:					Country:	
Affiliation: Title:							
Email:							

Kesui	me of Operations a	and Equipment	
PROJECT NAME: REPLACE EMERGEN	ICY STAND BY GE	ENERATOR	
BUILDING & PROPERTY			
Property Footprint, total sq. ft./acres	1.58 ACRES	Parking sq. ft.	
Footprint, Largest structure, sq. ft.		No. Parking Spots	
Highest 'Story' on Site	1	Full Time Employees	
Total No. Structures		Part Time Employees	
This application requires completing an Department of Environmental Conserva 6NYCRR 617.20. Some of this information http://www.dec.ny.gov/docs/porthe applicant must provide floor plans exhausts, chimneys or stacks, and asso	ation's Short Envi on may be duplic ermits_ej_ope showing locatio	ronmental Assessment Form, ated herein. This form can be erations_pdf/seafpartor n of equipment, work station	Appendix B to accessed at:
OPERATIONS Primary Line(s) of Business: 1. Provides telephone service to Pearl River Are 2. 3.	a	NAICS: 1. 2. 3.	SIC: 1. 2.
Week Days Operating 7 No. Shifts per Day 3 Hours per Day Operating 24			3.
Principal Products of Manufa	cture/Assem	ıbly/Business	The second secon
2.			

PROJ	IFCT N	AMF REPL	ACE EMERGENCY ST	AND BY GENERATOR

NOISE

Based on descriptive decibel levels of Table A (following page), decibel corrections shown below as appropriate, and in accordance with the Town's Noise Performance Standard 4.181, evaluate the noise level for the processes you list below.

When appropriate, "frequency band cycles' as described in the Town's Noise Performance Standard will be evaluated by the facility in the event of non-compliance with levels proposed for this project. The Town may request this evaluation during the application process if more complex noise patterns are expected.

	Decibel
Type of Operation of Character of Noise	Correction
Daytime operation only	Plus 5
Noise source operates less than 20% of any one hour period	Plus 5
Noise source operates less than 5% of any one-hour period	Plus 10
Noise source operates less than 1% of any one-hour period	Plus 15
Noise of impulsive character (hammering, etc.)	Minus 5
Noise of periodic character (hum, screech, etc.)	Minus 5

Use dB categories in Table A following page	Noise Level/Range Anticipated Outdoor:				
'Loudest' Producers of Noise Include construction and process operations.	During Time of Busiest Activity	During Time of Slowest Activity	Frequency per day or Specific Time Ranges	Duration, denote hours or minutes	
1. GENERATOR	74dBA@25	0	Test once a month	during power outa	
2.					
3.					
4.					
5.					

VIBRATION

It is understood that the applicant is familiar with, and anticipates compliance with, the Town's Vibration Performance Standard, 4.171, during project construction and ultimate project operations. Any anticipated aberrations from this expectation should be detailed below.

110

115

@ 1000 ft.

TABLE A Decibel Levels

rock band; jackhammer, jet flyover

emergency vehicle siren; riveter

0	healthy hearing threshold
10	a pin dropping
20	rustling leaves; quiet rural area, nighttime
30	whisper, faint; quiet suburban area, nightime
40	babbling brook, bird calls; quiet urban area,nighttime; computer
50	light traffic; quiet urban area, daytime; refrigerator; residential air conditioner @ 50'
60	conversational speech @ 3'; air conditioner; heavy trafiic @ 300'
70	shower: living room music: dishwasher
75	toilet flushing; vacuum cleaner; gas lawnmower @ 100', commercial area
80	alarm clock; garbage disposal; noisy urban area, daytime
85	passing diesel truck; snow blower
90	squeeze toy; lawn mower, food blender, motorcycle @ 25'; arc welder; diesel truck @ 50' @ 50 mph.
95	inside subway car; food processor; belt sander
100	motorcycle (riding); loud auto horn @ 10'; lawn mower @ 3'; handheld drill
105	sporting event; table saw

Most noise levels are given in dBA, which are decibels adjusted to reflect the ear's response to different frequencies of sound. Sudden, brief impulse sounds, like many of those shown at 120 dB or greater, are often given in dB (no adjustment).

30 faint	
50 moderate	
70 loud	

120 thunderclap; oxygen torch 125 balloon popping 130 peak stadium crowd 135 air raid siren, near jet engine 140 jet engine at takeoff 145 firecracker fighter jet launch 150 155 cap gun 160 shotgun 165 .357 magnum revolver 170 safety airbag 175 howitzer cannon 180 rocket launch 194 sound waves become shock waves

90 very loud 120 deafening 130 threshold of pain

PROJECT NA	AME:	REPLACE EMERGENCY	STAND	BY	GENER	ATOR
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Permits and Applicable Local, County, State & Federal Regulations

Does the new or modified facility, process(es) or equipment require ANY additional permits, licenses, certifications or other authorizations under local, county, state or federal jurisdiciton, or adherence to the regulations below? If so, list the main applicable regulatory parts for each category.

For example, NYSDEC Air State Facility Permit: Part 201-5; industrial wastewater discharge, State Pollutant Discharge Elimination System (SPDES), Part 750; large gas burning engines, NSPS Subpart JJJJ.

Answers in the positive may cause the Town to only conditionally approve this project until these other requirments are met. Additional information and specificity of regulations may be required. It is the applicant's responsibility to provide proof of evidience of meeting all requirements.

AIR*	PRIMARY APPLICABLE REGULATIONS
EPA New Source Performance Standards	
NYSDEC:	
Registration	
Air State Facility Permit	
Federal Title V Major Facility Permit	
WASTE**	
Pesticide Control	
Solid & Hazardous Waste	
Radiation	
Mineral Resources & Mined Land Reclamation	
Noise from Heavy Motor Vehicles	
RESOURCE MANAGEMENT***	
Land Use	
Mineral Resources	
Invasive Species	
Real Property and Land Acquisitions	
Water Regulaton	
WATER***	
All other water applicable matters	
GENERAL	
State Environmental Quality Review	
New York State Department of Health	
Uniform Procedures per 6NYCRR 621.1	
NYS Department of State	
Additional	

- * http://www.dec.ny.gov/regs/2492.html
- ** http://www.dec.ny.gov/regs/2491.html
- *** http://www.dec.ny.gov/regs/2490.html
- **** http://www.dec.ny.gov/regs/2485.html

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PROJECT NAME: REPLACE EMERGENCY	Y STAND BY GENERA	TOR		
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Combustion Sources

Combustion Source (engine, turbine, boiler, etc.)	No. of Units	Equipment Rating List HP, KW, MMBtu/hr, CFM with units	Fuels (e.g., natural gas, fuel oil, distillate or residual oil, waste oil, wood)
GENERATOR	1	600KW	DIESEL
			, , , , , , , , , , , , , , , , , , , ,
		`	

Processes

Will any process, including combustion, use or storage, disposal, discharge, emission, or release to the environment, be applicable and/or reportable to:	*
EPA Greenhouse Gas Reporting	
EPA Toxic Release Inventory	
National Emission Standards for Hazardous Air Pollutants	
High Toxicity Air Contaminants per NYSDEC Part 212-2.2 Table 2	
Emergency Planning and Community Right-to-Know Act (EPCRA)	
Tier II NYS Emergency Response Commission	
Solid Waste	
Hazardous Waste	
FHWA or NYSDOT	
SPDES or NPDES	

^{*} Mark with an 'X' those that are applicable.

Chemical Characterization Codes

Table B

Use these codes to characterize chemicals and chemical products.

Does a	ny operation involve the use of any of the following:	Y or N
В	explosive and blasting agents	N
С	poison: gas,g; liquid,l; solid,s	N
D	irritant	N
Ε	flammable liquid	Y
F	flammable solid	N
Н	flammable gas: specify propane and/or butane	N
H-a	flammables, NOS	N
1	oxidizer	N
J	organic peroxide	N
Κ	combustible liquid	Y
L	radioactive material	N
М	corrosive material	N
N	"dangerous when wet" material	N
0	etiological material	N
P	combustible fibers	N
Does ar	ny operation consist of the following:	
Q	produces dust subject to explosion or spontaneous combustion	N
R	product poisonous fumes or gases	Y
Т	spray operations	N
U	fuel dispensing	N
V	propane gas forklifts	N
W	any other operation which may present a fire, explosive, radiological or other hazard	N

If none of the above, identify substances as:

A aerosol
G gas
L liquid
S/P solid/powder
S/L slurry

Chemical Bulk Inventory

PROJECT NAME: REPLACE EMERGENCY STAND BY GENERATOR

SINGLE, NON-MIXTURE CHEMICALS Top 5 by Amounts Used/Stored	CAS Identification*	Table B Characterization Code List all that apply	Yearly Use/Stored (list gallons or pounds)
1. NO. 2 DIESEL FUEL OIL	68476-34-6	E,K,R	300 Gal daytank & 5000Gal U
2.			
3.			
4.			
5.	·		

of any combination of single,	
urchased mixtures? Indicate YES or NO	

Identify <u>any</u> on-site, single non-mixture chemical that is:					
Known Human Carcinogen - KHC	Canalnaga	Yearly			
Probable Human Carcinogen - PrHC	Carcinogen	Consumption			
Possible Human Carcinogen - PHC	Characteristic#	(gallons or pounds)			
Other - Indicate					
2.					

CAS Identification*

https://ofmpub.epa.gov/sor_internet/registry/substreg/searchandretrieve/substancesearch/search.do?search=&substanceName=ethyl%20ketone&substanceNameScope=contains&substanceType=-1&hasComponents=both

[#] As would be expected to be found in agreement among bodies such as the National Academy of Sciences, the U.S. Department of Health and Human Services' *Agency for Toxic Substance and Disease Registry*, the World Health Organization's *International Agency for Research on Cancer*.

Chemical Mixtures Inventory

PROJECT NAME: REPLACE EMERGENCY STAND BY GENERATOR

PURCHASED CHEMICAL MIXTURES List Top Three By Amount Used or Stored, and % of top three components of each mixture, excluding water.	CAS Identification* & Percentage	Table B Characterization Code List all that apply	Yearly Used/Stored (include units: gallons, g, or pounds; p)
M1.			
b.			
M2.	The state of the s		
a.			
b.			
с.			
M3.			
a.			
b			2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

Identify <u>any</u> on-sit	e chemicals in any mixt	tures that are:		
Know Human Ca	rcinogen - KHC		Carcinogen	Yearly
Probable Humar	Carcinogen - PrHC	: 8:: ###	Characterist	ic Used/Stored,
Possible Human	Carcinogen - PHC			gallons or pounds
Other - Indicate				
1.				
2.				
3.				

Chemical Discharges

PROJECT NAME: REPLACE EMERGENCY STAND BY GENERATOR

List raw material, or products, that emit to the atmosphere or discharge to land or water.	Does this material - or products they form - emit or discharge to a pollution control device? If so, list device(s).
SINGLE, NO	N-MIXTURE CHEMICALS
CARBON MONOXIDE BY PRODUCT DUE TO COMBUSTION IN GENERATOR	
1.	
2.	
3.	
4.	
5.	
6.	
7.	
CHI	MICAL MIXTURES
1.	
2.	
3.	·
3.	
4.	
5.	
6.	

Primary Process Descriptions

PROJ	ECT NAME: REPLACE EMERGENCY STAND BY GENERATOR	
Descr	ibe Primary Processes:	Characterization Codes from Table B
	de a facility blueprint, drawing or schematic showing ons of the processes described below.	List all that apply
PP1	SEE ATTACHED DRAWINGS M-002, M-101, M-501	Е
PP2	SEE ATTACHED DRAWINGS M-002, M-101, M-501	K
PP3	SEE ATTACHED DRAWINGS M-002, M-101, M-501	R
PP4		
PP5		
PP6		
PP7		
PP8		
PP9		
PP10		

Control Systems

PROJEC	T NAME: REPLACE EMERGENCY STAND BY GENERATOR
systems	e control methods such as pollution and odor controls, fire alarm , automatic fire suppression devices such as sprinklers, portable fire shers, and any other safety devices.
C1	FIRE ALARM DEVICES MONITORING GENERATOR ROOM AS FOLLOWS SMOKE DETECTORS, HEAT DETECTORS F& LAME DETECTOR
C2	PROVIDE CARBON MONOXIDE DETECTORS IN GENERATOR ROOM WHERE COMBUSTION OCCURS AND DIRECTLY OUTSIDE ADJECENT ROOM.
C3	GENERATOR WILL SHUTDOWN WHEN FLAME DETECTOR IS IN ALARM.
C4	
C 5	
C6	
С7	
C8	
С9	
C10	

DEFINITIONS

Responsible official. A president, vice president, secretary, treasurer, general partner, proprietor, principal executive officer, ranking elected official, or any other person who performs policy or decision making functions and is authorized to legally bind a corporation, partnership, sole proprietorship, or government entity which operates a facility that is subject to the provisions of this Application. Whenever the term responsible official is used in this document or in any other Town regulations, it shall be deemed to refer to the "designated representative" with regard to all matters under this application.

Major action/project - actions for which permit applications are to be sent to the NYSDEC under 6NYCRR621.1.

https://govt.westlaw.com/nycrr/Document/I4ec443aacd1711dda432a117e6e0f345?viewT Refer to: ype=FullText&originationContext=documenttoc&transitionType=CategoryPageItem&conte xtData=(sc.Default)

Minor Project - Projects as described under NYSDEC's Uniform Procedures, 6 CRR-NY 621.4

https://govt.westlaw.com/nycrr/Document/I4ec46aa7cd1711dda432a117e6e0f345?viewTRefer to: ype=FullText&originationContext=documenttoc&transitionType=CategoryPageItem&contextData=(sc.Default)

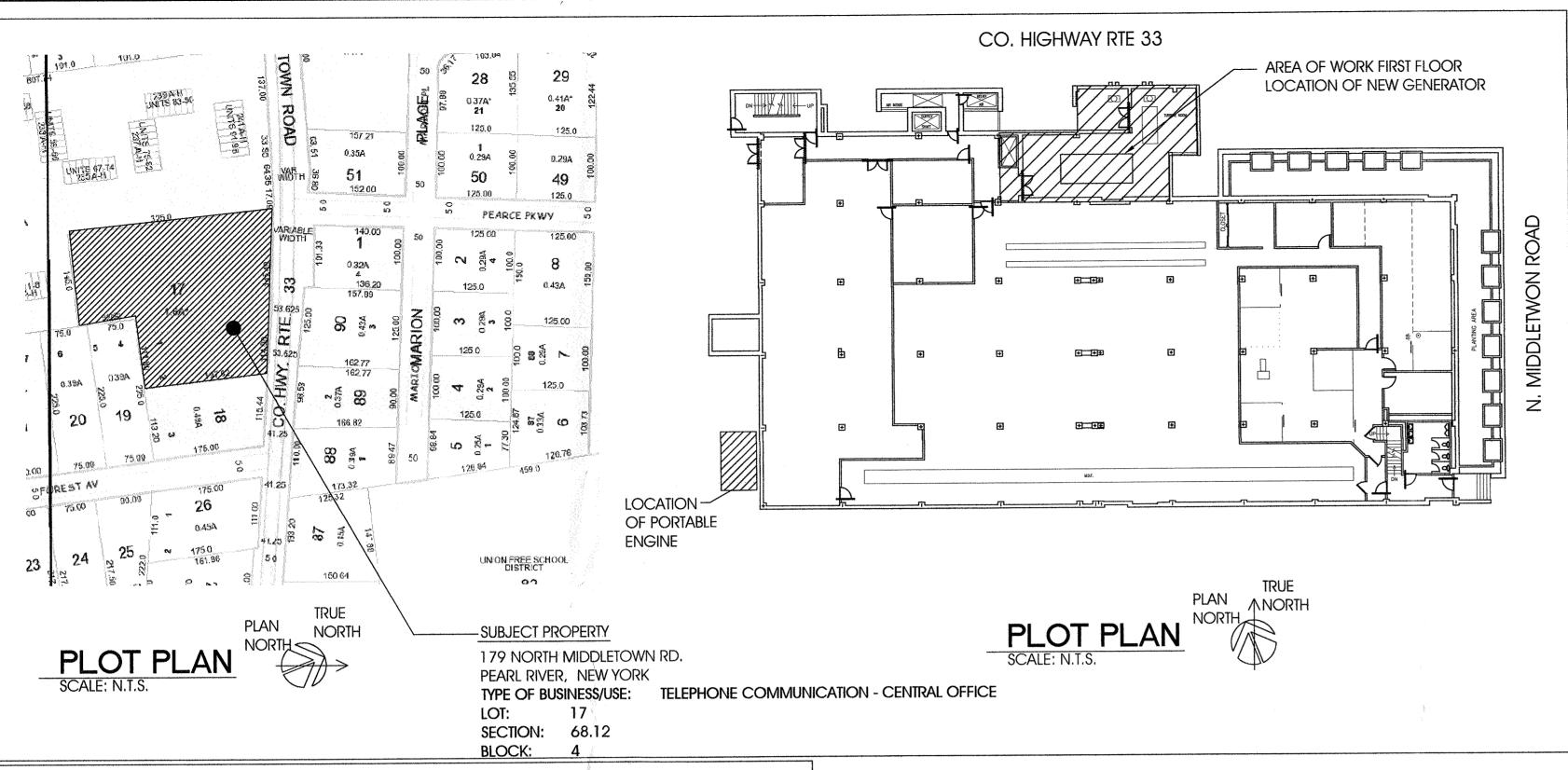
Modification means any change or amendment whatsoever to a permit that is currently in force, including permit transfer.

Research and Development activities. The primary purpose of such activities is to conduct research and development into processes and products, where such activities are conducted under the close supervision of technically trained personnel. Research and development activities do not include activities whose primary purpose is to produce commercial quantities of materials.



Additional Information or Explanantions

PROJECT NAME: REPLACE EMERGENCY STAND BY GENERATOR





SITE PLAN SCALE: N.T.S.

ALL CONTRACTORS ARE RESPONSIBLE FOR COORDINATION OF THEIR WORK WITH THE WORK OF OTHER TRADESMEN. ALL DRAWINGS RELATED TO THE CONSTRUCTION OF THIS PROJECT, AS ENUMERATED ON SHEET T-1, ARE HEREIN REFERENCED FOR COORDINATION PURPOSES. ALL CONTRACTORS SHALL FAMILIARIZE THEMSELVES WITH THE COMPLETE SET OF DOCUMENTS AND SPECIFICATIONS FOR THIS PURPOSE. NO CHANGE ORDERS OR ADDITIONS TO THE CONTRACT SUM SHALL BE ENTERTAINED FOR LACK OF COORDINATION BETWEEN TRADES.

THESE DRAWINGS REPRESENT THE DESIGN INTENT FOR THIS PROJECT. DUE TO EXISTING FIELD CONDITIONS IT MAY BE REQUIRED TO VARY SCHEDULES, EQUIPMENT, EQUIPMENT LOCATIONS, ETC. ALL SIGNIFICANT VARIATIONS SHOULD BE APPROVED BY THE ENGINEER'S OFFICE PRIOR TO IMPLEMENTATION. SUBMISSIONS FOR ALL NEW MAJOR COMPONENTS SHOULD BE FORWARDED TO THE ENGINEER'S OFFICE VIA MAIL, FAX OR PHONE CONVERSATION FOR REVIEW. THE CONSTRUCTION MANAGER AND CONTRACTORS ARE ENCOURAGED TO COORDINATE WITH ENGINEER'S OFFICE REGARDING ANY QUESTIONS THAT MAY ARISE.

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 NYS BUILDING CODE, FIRE CODE, MECHANICAL CODE AND ENERGY CONSERVATION CONSTRUCTION CODE (BASED ON THE 2018 IECC).

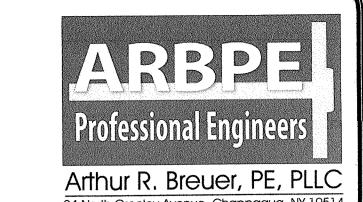
CONSTRUCTION DOCUMENTS **FOR**

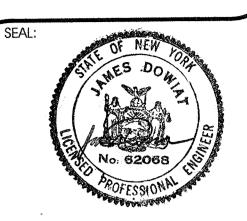
GENERATOR SPACE PREPARATION

AT

179 NORTH MIDDLETOWN ROAD PEARL RIVER, NY

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GENE	RAL CONSTRUCTION			
G-001	GENERAL CONSTRUCTION: SYMBOLS & NOTES		6/18/2020	8/7/2020
G-101	GENERAL CONSTRUCTION: FIRST FLOOR PART PLANS	, c	6/18/2020	8/7/2020
G-501	GENERAL CONSTRUCTION: DETAILS & SCHEDULES	V ₄	6/18/2020	8/7/2020
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S-001	STRUCTURAL: STRUCTURAL NOTES & SPECIFICATIONS	/	6/18/2020	8/7/2020
S-101	STRUCTURAL: STRUCTURAL PART PLANS, ROOF FRAMING &	FOUNDATION CONCRETE	6/18/2020	8/7/2020
S-501	STRUCTURAL: STRUCTURAL SECTIONS & DETAILS		6/18/2020	8/7/2020
S-502	STRUCTURAL: DETAILS & SECTIONS		6/18/2020	8/7/2020
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M-001	MECHANICAL: SYMBOLS, NOTES & DIAGRAMS		6/18/2020	8/7/2020
M-002	MECHANICAL: FUEL OIL RISER DIAGRAMS		6/18/2020	8/7/2020
M-101	MECHANICAL: FIRST FLOOR PART PLANS - DEMOLITION &	NEW WORK	6/18/2020	8/7/2020
M-501	MECHANICAL: DETAILS & DIAGRAMS		6/18/2020	8/7/2020
M-502	MECHANICAL: ELEVATIONS & DETAILS		6/18/2020	8/7/2020

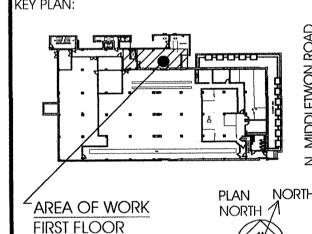




HILLMAN & MILEY



ACCORDANCE WITH APPLICABLE





PEARL RIVER GENERATOR SPACE **PREPARATION**

179 N MIDDLETOWN ROAD PEARL RIVER, NY

DATE:	06/18/2020
SCALE:	AS NOTED
DRAWN BY:	AH/VP
CHECKED BY:	JBD/AH
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NEW GENERATOR AND RIGGING NOTES

- . NEW GENERATOR SET WILL BE KOHLER MODEL 600REOZVB, 600KW, 208V, 3PHASE, 4-WIRE WITH ON-SET RADIATOR.
- 2. KINSLEY POWER SYSTEMS SHALL DISASSEMBLE GENERATOR AT KINSLEY'S YARD. DIVISION 16 SHALL PICK UP EQUIPMENT FROM KINSLEY YARD AND DELIVER TO SITE. ADDRESS FOR KINSLEY YARD IS: KINSLEY GROUP, 14 CONNECTICUT SOUTH DRIVE, EAST GRANBY, CT 06026. THE INDIVIDUAL ENGINE PIECES ARE AS FOLLOWS:
- RADIATOR
- ENGINE BASE WITH CONTROL PANEL
- ALTERNATOR ENGINE RAILING
- ACCESSORIES WILL INCLUDE EXPANSION JOINTS, SILENCERS, FUEL OIL SPECIALTIES. DIV.16 SHALL COORDINATE WITH KINSLEY POWER SYSTEMS FOR COMPLETE LIST OF EQUIPMENT
- 3. VERIZON WILL PURCHASE THE ENGINE AND ACCESSORIES AND PROVIDE CUTS OF ALL EQUIPMENT. 4. DIV. 16 SHALL DELIVER THE SILENCERS TO THE SITE AND RIG THE SILENCERS INTO THE BUILDING FOR DIV. 15 TO SET IT IN PLACE.
- 5. DIV. 16 SHALL DELIVER THE ENGINE PIECES TO THE SITE AND RIG THE PIECES INTO THE BUILDING. KINSLEY POWER SYSTEMS SHALL REASSEMBLE THE GENERATOR SET. CLOSELY COORDINATE WITH KINSLEY POWER SYSTEMS TO PHASE THE RIGGING AND ASSIST KINSLEY POWER SYSTEMS DURING REASSEMBLY.
- 6. DIV. 16 SHALL DELIVER TO THE SITE LOOSE EQUIPMENT TO BE INSTALLED BY DIV. 15.
- 7. DIV. 15 TO INSTALL EXPANSION JOINTS AND FUEL OIL ACCESSORIES PROVIDED BY KINSLEY POWER SYSTEMS.
- 8. VERIZON WILL PROVIDE FOR KINSLEY POWER SYSTEMS SUPERVISION FOR RIGGING, LEVELING AND START UP OF THE GENERATOR SET. DIV. 16 SHALL LEVEL THE ENGINE WITH ISOLATORS INSTALLED. 9. THE PRIME CONTRACTOR SHALL BE RESPONSIBLE FOR RIGGING IN ALL GENERAL CONSTRUCTION
- AND MECHANICAL EQUIPMENT. 10. RIGGING OF ALL OTHER DIV. 16 EQUIPMENT WILL BE THE RESPONSIBILITY OF DIV. 16.

ENGINE PROTECTION

DIVISION 16 MUST DISCONNECT THE ENGINE CONTROL PANEL BEFORE ANY WELDING IS DONE ON THE ENGINE.

PROJECT PHASING NOTES:

NOTE THAT THE PHASING DESCRIBED HEREIN DOES NOT NECESSARILY DICTATE THE EXACT SCOPE OF WORK. MINIMIZE DURATION OF ALL SHUTDOWNS BY HAVING NEW CABLES (FEEDERS) AT THE READY FOR ALL TRANSITIONS. BASE BID ON OUT-OF-HOURS FOR ALL TRANSITIONS AND SHUTDOWNS. PROVIDE NEW NAMEPLATES THROUGHOUT.

- DIV. 16 TO RENT 200KW PORTABLE GENERATOR FOR (5) MONTHS MINIMUM AND CONNECT TO EXISTING RUSSELL STOLL CONNECTIONS. PROVIDE AND ROUTE ALL NECESSARY CABLING AND CONNECTION REQUIRED. BASE BID ON 100'-0" OF CABLING FROM ROLL-UP GENERATOR TO RUSSELL STOLL CONNECTORS. PROVIDE SHORE POWER, TEST AND PLACE PORTABLE GENERATOR ONLINE PRIOR TO EMERGENCY GENERATOR DEMOLITION. PROVIDE AUTO-START CONTROL WIRING BETWEEN TO ENGINE ALARM PANEL AND PORTABLE GENERATOR. PROVIDE MOP FOR VERIZON'S APPROVAL PRIOR TO WORK COMMENCEMENT.
- WITH PORTABLE GENERATOR APPROVED AND ONLINE, REMOVAL OF OLD GENERATOR AND INSTALLATION OF NEW WITH ASSOCIATED EQUIPMENT SHALL COMMENCE AS DESCRIBED ON DRAWINGS. THE FOLLOWING ITEMS CAN BE PERFORMED DURING NEW 600KW GENERATOR LEAD
 - DIV. 16 SHALL DISCONNECT EMERGENCY FEEDERS FROM GENERATOR TO IDEAL BOARD AND REMOVE EXISTING 200KW GENERATOR COMPLETE. DIV. 15 TO DISCONNECT DRAIN, CLEAN AND REMOVE DAYTANK FOR GENERATOR REMOVAL/INSTALLATION. DIV. 16 TO DISCONNECT ALL ELECTRICAL CONNECTIONS.
 - G.C. SHALL PROVIDE NEW CONCRETE PADS FOR GENERATOR AND EXTEND EXISTING PADS. CONCRETE PAD SHALL CURE FOR A MINIMUM OF (7) DAYS. MODIFY EXISTING ELECTRICAL SERVICE ROOM WALL AND DOOR.
 - G.C. TO MAKE MODIFICATIONS TO NEW GENERATOR ROOM FOR NEW GENERATOR INTAKE AND EXHAUST OPENINGS. COORDINATE WITH DIV. 16 AND KINSLEY POWER FOR RIGGING OF NEW GENERATOR THRU NEW OPENINGS.
 - DIV. 15 TO PROVIDE NEW DAYTANK AND ASSOCIATED FUEL OIL PUMPS AND PIPING MODIFICATIONS TO NEW GENERATOR, NEW DAYTANK BASED ON HIGHLAND 300-GALLON DIKE TANK.
 - DIV. 16 SHALL FURNISHED AND INSTALL A NEW 2000A MTS AND NEW 2000A EMERGENCY DISTRIBUTION PANEL. CONTRACTOR TO PROVIDE NEW EMERGENCY POWER TO BUILDING LOADS AS INDICATED ON ONE-LINE DIAGRAM ON DRAWING E-002.
 - DIV. 16 SHALL FURNISH AND INSTALL NEW 2000A PEC WITH ALL ASSOCIATED CONDUIT, CABLES, AND ALARMS. NEW PEC SHALL BE LOCATED AT BACK OF BUILDING IN PARKING
- 5. DIV. 16 SHALL DELIVER AND RIG NEW GENERATOR AND SILENCER INTO BUILDING. DIV. 15 TO INSTALL SILENCER PRIOR TO NEW GENERATOR RIG-IN. DIV. 16 SHALL ASSIST WITH THE ASSEMBLE GENERATOR WITH KINSLEY POWER. DIV. 15 TO INSTALL SILENCER, EXHAUST PLENUM, AND SOUND ATTENUATION. ALL TRADES SHALL COORDINATE WITH EACH OTHER TO AVOID CONSTRUCTION SCHEDULE CONFLICTS.
- 6. DIV. 16 AND KINSLEY POWER SHALL TEST AND COMMISSION GENERATOR WITH VERIZON. KINSLEY POWER TO SUPPLY A 600KW LOAD BANK COMPLETE WITH CABLES. DIV. 16 TO ASSIST IN MAKING ALL CONNECTIONS/DISCONNECTIONS FOR DURATION OF TESTS, TEMPORARY PORTABLE LOAD BANK RENTAL IS LIMITED TO A WEEK.
- 7. DIV. 16 SHALL COORDINATE WITH TESCO TO TEST ALL ALARM POINTS WITH VERIZON PRIOR TO FINAL ACCEPTANCE OF GENERATOR. ONCE GENERATOR IS ACCEPTED, CONTRACTOR CAN REMOVE ROLL-UP GENERATOR CONNECTION TEMPORARY TO REMOVE EXISTING RUSSELL STOLL CONNECTOR AS INDICATED ON PLANS.

GENERAL CONSTRUCTION NOTES

- 1. THE DRAWINGS ARE TO BE CONSIDERED SCHEMATIC ONLY AND DO NOT NECESSARILY SHOW THE EXACT LOCATION AND DETAILS OF THE WORK TO BE INSTALLED.
- 2. CONTRACTOR SHALL VISIT SITE PRIOR TO SUBMITTING BIDS.
- 3. DRAWINGS PROVIDED ARE NOT TO BE SCALED AND ARE PROVIDED FOR REFERENCE. VERIFY ALL EXISTING DIMENSIONS IN FIELD
- 4. THIS CONTRACTOR TO INSTALL ALL ACCESS DOORS IN GENERAL CONSTRUCTION (WALL, PARTITIONS, FLOORS, CEILINGS) AS REQUIRED BY SUBCONTRACTORS. THIS CONTRACTOR SHALL PERFORM ALL PATCHING FOR ALL TRADES; SMALL OPENINGS FOR PIPES CONDUITS ETC. TO BE PER TRADE. ALL OTHER CUTTING REQUIREMENTS TO BE BY THIS CONTRACTOR. SEE DIVISION 1 IN SPECIFICATIONS.
- 5. CONTRACTOR IS RESPONSIBLE FOR ALL CHANGES TO WORK OF ALL TRADES NECESSITATED BY PROVIDING EQUIPMENT DIFFERING IN ANY RESPECT
- 6. ALL WORK SHALL BE INSTALLED PER ALL REQUIREMENTS OF NEW YORK STATE BUILDING CODE AND LOCAL ORDINANCES. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL ALL REQUIRED INSPECTIONS & PERMITS. SEE SPECIFICATIONS.
- 7. GENERAL CONTRACTOR TO PROVIDE ALL DUST PROTECTION FOR ALL TRADES.
- 8. GENERAL CONTRACTOR TO PROVIDE FULL TIME SUPERVISION (NOT A TRADE PERSON) ACCEPTABLE TO VERIZON AT SITE WHENEVER GENERAL CONTRACTOR OR ANY OF HIS TRADES ARE WORKING. THIS INDIVIDUAL MUST BE KNOWLEDGEABLE IN ALL ASPECTS OF BUILDING SYSTEMS AND CONSTRUCTION AND BE ACCEPTABLE TO THE VERIZON REPRESENTATIVE OR BE REPLACED AT NO ADDITIONAL COST TO VERIZON. ALSO, VERIZON MAY REJECT CONTRACTOR'S BID IF A QUALIFIED SUPERVISOR ACCEPTABLE TO VERIZON IS NOT PROVIDED.
- 9. ALL WORKERS SHALL BE ABLE TO COMMUNICATE IN ENGLISH TO THE VERIZON REPRESENTATIVE AND BE ACCEPTABLE TO THE VERIZON REPRESENTATIVE OR BE REPLACED AT NO ADDITIONAL COST TO VERIZON.
- 10. WHENEVER POLYETHYLENE IS USED AS PROTECTIVE TARPAULINS OR DROP CLOTHS, IT SHALL BE 10 MIL NFPA 701 FIRE-RETARDANT PLASTIC SHEET. THE PRODUCT SHALL BEAR 3/4" LETTERS PRINTED CONTINUOUSLY ALONG ONE EDGE, IN CONTRASTING COLOR, THE WORDS "NFPA 701 FIRETARDANT PLASTIC SHEET".
- 11. GENERAL CONTRACTOR TO PROVIDE TYPE "A" DUST PARTITION FROM FLOOR TO SLAB BETWEEN ALL WORK AREAS AND LIVE TELEPHONE EQUIPMENT, SEAL AIRTIGHT WITH REBCO PLASTIC. PROVIDE BOX TYPE PROTECTION AROUND ALL DRILLING, CUTTING & SCRAPING WORK AREAS. NO WORK SHALL BEGIN UNTIL VERIZON ENGINEER APPROVES PROTECTION.
- 12. CONTRACTOR SHALL CLEAN WORK AREA TO HOSPITAL GRADE CLEANLINESS AT JOB COMPLETION. THIS SHALL INCLUDE BUT NOT BE LIMITED TO, VACUUMING ON CABLE RACKS AND ALL SURFACES WITH APPROVED VACUUMS. SEE SPECIFICATIONS. CONTRACTOR SHALL RETURN TO SITE AFTER JOB COMPLETION AND PERFORM SECOND CLEANING BEFORE ENVIRONMENTAL INSPECTION DATE AS DETERMINED BY VERIZON,
- 13. ALL CONTRACTORS SHALL INSURE PROTECTION OF EXISTING TELEPHONE EQUIPMENT AT ALL TIMES. NO WORK IN ANY TELEPHONE ROOM WILL BEGIN UNTIL THE TELEPHONE COMPANY REPRESENTATIVE HAS INSPECTED PROTECTION AND APPROVED SAME. ALL WORKERS MUST BE ABLE TO FREELY COMMUNICATE AND UNDERSTAND THE TELEPHONE COMPANY'S DIRECTION FOR DUST PROTECTION. ANY WORKER NOT SATISFYING THESE STANDARDS AS DETERMINED BY THE TELEPHONE COMPANY ENGINEER SHALL BE REPLACED WITH A SUITABLE WORKER AT NO EXTRA COST TO VERIZON.
- 14. CONTRACTOR SHALL PROVIDE & MAINTAIN A 'MATERIAL SAFETY DATA SHEET" (MSDS) FOR ALL MIXTURES AND SOLUTIONS PROPOSED FOR USE DURING CONSTRUCTION IN THIS BUILDING BY THE GENERAL CONTRACTOR OR ANY OF THE SUBCONTRACTORS. MSDS SHALL BE KEPT ON SITE AND BE AVAILABLE TO VERIZON FIELD ENGINEER UPON REQUEST.
- 15. DURING CONSTRUCTION THE CONTRACTOR IS TO DAILY CLEAN ALL COMMON AREAS OF WORK.
- 16. CONTRACTOR TO COMPLY TO ALL DRAWINGS AND SPECIFICATION DOCUMENTS. ALONG WITH ALL SAFE TIME PRACTICES.
- 17. THE CONTRACTOR AND SUBCONTRACTORS ARE TO PREPARE METHOD OF PROCEDURE (MOP) DOCUMENTS FOR ALL WORK, PROVIDE AN INDIVIDUAL MOP FOR EACH SYSTEM SHUTDOWN.

INTENT OF PHASING NOTES

THE PHASING NOTES ARE GENERAL IN NATURE. THEY HAVE BEEN PROVIDED AT THE REQUEST OF AND AFTER REVIEW BY VERIZON AS A GENERAL GUIDE ONLY WITH THE INTENTION OF LIMITING DISRUPTIONS TO THE BUILDING'S TELECOMMUNICATIONS SYSTEMS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH VERIZON AND DEVELOP THE ACTUAL SCOPE OF WORK AND THE PHASING OF THAT WORK TO ACCOMPLISH THE WORK SHOWN ON THE DOCUMENTS OF THE CONTRACT AND TO ELIMINATE OR KEEP TO A MINIMUM DISRUPTIONS TO THE BUILDING TELECOMMUNICATIONS SYSTEMS. ALL WORK SHALL ONLY COMMENCE WITH AN APPROVED M.O.P. PROVIDE DETAILED M.O.P. AND COORDINATED PROJECT SCHEDULE AT START OF PROJECT. UPDATE MOP & SCHEDULE IF NECESSARY AS PROJECT PROGRESSES.

ADDITIONAL NOTES

- 1. CONSTRUCTION SCHEDULE TO BE PROVIDED WITHIN 2 WEEKS AFTER PO ISSUANCE. PROVIDE REVISED SCHEDULE IF DATES CHANGE ALONG WITH EXPLANATION.
- 2. SUBMITTALS AND SHOP DRAWINGS ARE A MUST (IF ITEM, DEVICE, OR EQUIPMENT IS INSTALLED NOT PER DRAWING AND A SUBMITTAL WAS NOT APPROVED, THE CONTRACTOR WILL BE REQUIRED TO CORRECT THE ITEM, DEVICE OR EQUIPMENT).
- 3. KEEP A COPY OF BID DRAWINGS, ADDENDUMS AND MINUTES OF MEETINGS AT SITE. 4. BRING AS-BUILT, LAMINATED CONTROL SHOP DRAWINGS TO FINAL INSPECTION.
- 5. PROVIDE A COPY OF TOWN SIGN-OFFS.
- 6. POST COPIES OF MOP'S AND CONSTRUCTION PERMITS AT THE SITE.

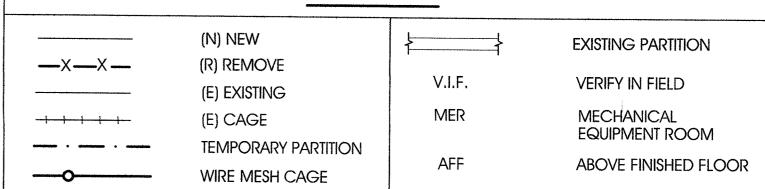
METHOD OF PROCEDURE (MOP)

- . THESE NOTES DESCRIBE PROCEDURES TO BE FOLLOWED WHEN WORKING IN THE TELEPHONE BUILDING, ESPECIALLY NEAR TELEPHONE EQUIPMENT OR CABLES.
- 2. REFER TO VERIZON SPECIAL CONDITIONS AND DIVISION 1 OF THE
- SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- 3. PROTECTION OF EXISTING TELEPHONE EQUIPMENT AND CABLING IS OF PRIME IMPORTANCE.
- GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF ALL TRADES. MAINTAINING CLEAN ACCESS ROUTES AND AN ORGANIZED WORKING ENVIRONMENT IS ALSO VERY IMPORTANT.
- WHEN SLABS ARE CUT FOR PIPING OR CONDUIT, DEMOLITION AND LOUVER WORK IS BEING DONE OR WHEN EXISTING SHEET ROCK WALLS ARE CUT TO INSTALL NEW DUCTS, DAMPERS, ETC. THE WORK AREA MUST BE ISOLATED FROM EXISTING TELEPHONE EQUIPMENT BY POLYETHYLENE.
- 4. THE PRIMARY ACCESS ROUTE FOR PERSONNEL SHALL BE VIA THE MAIN ENTRANCE.
- 5. COORDINATE WITH OWNER. PRIMARY ACCESS ROUTE FOR MATERIALS SHALL BE THE REAR ENTRANCE TO THE BUILDING LOCATED AT THE BACK PARKING LOT. TOOLS AND SMALL SUPPLY ITEMS MUST ALSO FOLLOW THIS ROUTE. EXISTING FLOORING SHALL BE PROTECTED AS NECESSARY AND BE KEPT VACUUM CLEANED. CONTRACTORS SHALL PROTECT ALL SIDEWALKS, PATCH ALL OPENINGS, ETC. AND MUST OBTAIN ALL PERMITS REQUIRED AFTER ALL EQUIPMENT, INCLUDING TELCO EQUIPMENT IS IN PLACE.
- PROTECT ALL FRAMES AND CABLE RACKS IN WORK AREA WITH 10 MIL NFPA 701 FIRE RESISTANT PLASTIC FOR DIV. 15 DUCT INSTALLATION. POLYETHYLENE SHALL EXTEND AT LEAST 6'- 0" IN ALL DIRECTIONS BEYOND WORK LOCATION. PROVIDE TEMPORARY ENCLOSURES AROUND ANY DUST CREATING ACTIVITIES (CORE DRILLING, ETC.) WHEN IN PROXIMITY TO TELEPHONE EQUIPMENT. FRAMES SHALL NOT BE WALKED ON. PROVIDE INDEPENDENTLY SUPPORTED SCAFFOLDS AND PLYWOOD OVER FRAMES IF NECESSARY TO WORK ABOVE FRAMES. WHEN DRILLING FOR INSERTS, PROVIDE PROTECTION AND USE HEPA VACUUM AT POINT OF DRILLING.
- NO CUTTING OR DRILLING OPERATIONS SHALL TAKE PLACE UNLESS VERIZON HAS APPROVED THE LOCATION TO BE CUT OR DRILLED. METHOD OF CUTTING OR DRILLING AND METHOD OF PROTECTION FOR THE AREA. THE CONTRACTOR SHALL MARK OUT AND CLEARLY LOCATE WHERE ALL WALL, CEILING SLAB AND FLOOR PENETRATIONS ARE TO BE MADE FOR VERIZON TO APPROVE. THE CONTRACTOR SHALL X-RAY ALL LOCATIONS WHERE PENETRATIONS ARE TO BE MADE AND ADVISE VERIZON OF THEIR FINDINGS. ALL CUTTING OF PIPING AND CONDUITS AND MIXING OF CONCRETE, ETC. SHALL BE DONE OUTSIDE EXISTING SWITCH AREA. CONTRACTOR SHALL PROBE ALL AREAS TO BE DRILLED OR CUT TO DETERMINE IF THERE ARE IMBEDDED SERVICES.
- CONTRACTOR SHALL CONTACT BUILDING PROPERTY MANAGER BEFORE PROCEEDING WITH ANY FIRE ALARM SYSTEM WORK.
- 9. THE WORK AREA IS OF VITAL IMPORTANCE TO THE COMPANY, THEREFORE, THE FOLLOWING RULES SHALL BE ADHERED TO:
- A. NO ONE WILL BE ALLOWED IN THE WORK SPACE WITHOUT PROPER I.D.
- B. BADGES ARE TO BE WORN AT ALL TIMES.
- C. ALL CONTRACTORS OR SUBCONTRACTORS ARE TO SIGN IN AND OUT WHENEVER WORKING IN THE BUILDING.
- D. A JOB FOREMAN IS TO BE IN THE WORK AREA WHENEVER THERE ARE CONTRACTORS OR SUBS PRESENT IN THE SPACE, WHETHER WORKING OR NOT.
- E. NOISE LEVEL IS TO BE KEPT TO A MINIMUM OR ATTENUATED BECAUSE THE WORKING OPERATION IN THE SPACE MUST GO ON UNDISTURBED.
- F. ALL DIRT AND DUST CANNOT BE TOLERATED BY EXISTING EQUIPMENT, THEREFORE, IT MUST BE CLEANED AS SOON AS
- G. THERE IS ABSOLUTELY NO SMOKING IN THE BUILDING. H. SAFETIME PRACTICES
- 10. PROVIDE BLUE "STICKY WALK-OFF MATS" AT ENTRANCE TO SPACE. RENEW AS OFTEN AS REQUIRED TO KEEP FUNCTIONAL.
- 11. ALL WORK IN ACTIVE SWITCHROOM SHALL BE COVERED BY THE "SAFETIME" PRACTICES ALTERNATE INCLUDING ALL SHUTDOWNS.
- 12. THE CONTRACTOR AND THE SUBCONTRACTORS ARE TO PREPARE AND OBTAIN SIGNED VERIZON METHOD OF PROCEDURE (MOP) DOCUMENTS FOR ALL THE WORK BEING DONE ON THIS PROJECT IN GENERAL AND ESPECIALLY FOR WORK REQUIRING CUTTING AND/OR DRILLING AND SYSTEM SHUTDOWNS.

WORK TIME DESIGNATIONS

- 1. THE FOLLOWING SHALL BE THE WORK TIME SCHEDULES OF OPERATIONS IN VARIOUS AREAS WITHIN A VERIZON CENTRAL OFFICE FACILITY:
 - GENERAL CONTRACTOR TO NOTIFY PROPER MANAGER 48 HOURS IN ADVANCE FOR ALL REQUIRED "OUT OF HOURS" WORK NEEDED TO PERFORMED.
- REGULAR OR STANDARD TIME HOURS OF CONSTRUCTION OPERATIONS SHALL BE PERFORMED BETWEEN THE HOURS OF 7:00AM TO 5:00PM. MONDAY THROUGH FRIDAY (EXCEPT HOLIDAYS) "PREMIUM OR "OUT-OF-HOURS" TIME HOURS OF CONSTRUCTION
- OPERATIONS SHALL BE PERFORMED BETWEEN THE HOURS OF 6:00PM TO 7:00AM. MONDAY THROUGH FRIDAY, WEEKENDS AND HOLIDAYS. "SAFE TIME" HOURS OF CONSTRUCTION OPERATIONS SHALL BE PERFORMED BETWEEN THE HOURS OF 12:00AM TO 6:00AM, MONDAY
- THROUGH FRIDAY, WEEKENDS AND HOLIDAYS. "WEEKEND" HOURS OF CONSTRUCTION OPERATIONS SHALL BE PERFORMED BETWEEN THE HOURS OF 6:00PM ON FRIDAY TO 6:00AM ON MONDAY.
- 2. WORK SHALL BE PERFORMED IN ACCORDANCE WITH VERIZON STANDARDS AND IN ACCORDANCE WITH THE VERIZON NETWORK OPERATIONS MANUAL (FOR ACTIVITY WITHIN A CENTRAL OFFICE LOCATION). PREPARE AN "MOP" OR METHOD OF PROCEDURE FOR THIS PROJECT AT THE INCEPTION OF WORK IF DEEMED NECESSARY BY THE FACILITY MANAGER AND NETWORK OPERATIONS MANAGER.

SYMBOLS



PRODUCT NOTES

- UNLESS SPECIFIC REQ. IS DEFINED FOR A SPECIFIC MANUFACTURER, IN THE INTEREST OF COMPETITION, THE DRAWINGS & SPECIFICATIONS ALLOW SELECTION FROM A VARIETY OF LISTED PRODUCT MANUFACTURERS. THIS IS TO ESTABLISH A LEVEL OF QUALITY FOR THE PROJECT. REFER TO SPECIFICATION SECTION 01005 ARTICLE 1.07.
- 2. IN THE INTEREST OF STIMULATING COMPETITION AND EMBRACING NEW PRODUCTS, "EQUIVALENT MANUFACTURERS" WILL BE CONSIDERED AS FOLLOWS:
 - THE BIDDER SUBMITS THE PROPOSED PRODUCT TO THE ENGINEER FOR REVIEW DURING THE BIDDING PERIOD AND THE ENGINEER INDICATES ACCEPTABILITY IN ADDENDUM.
- THE PROPOSED ALTERNATE MANUFACTURER IS LISTED IN THE BID DOCUMENTS BY THE BIDDER AS A "VOLUNTARY ALTERNATE" WHICH SHALL BE SUBJECT TO THE ENGINEER'S REVIEW DURING THE BID ANALYSIS PERIOD. THE ENGINEER SHALL BE ADVISED IN WRITING OF THIS PROPOSED SUBSTITUTION.
- THE CONTRACTOR HAS EXPERIENCE WITH THE SUBSTITUTED PRODUCT AS AN "EQUIVALENT" AND CAN DEMONSTRATE TO THE SATISFACTION OF THE ENGINEER THAT IT IS IN FACT EQUIVALENT IN ALL KEY SPECIFICATION REQUIREMENTS.
- THE BURDEN OF PROOF SHALL BE ON THE BIDDER TO DEMONSTRATE THE "EQUIVALENCE" OF THE PROPOSED SUBSTITUTION.

PROTECTION NOTES

- 1. ALL CONTRACTORS ARE RESPONSIBLE FOR PHOTO DOCUMENTATION OF EXISTING CONDITIONS PRIOR TO START OF WORK. PROVIDE COMPLETE SET OF PHOTOS TO VERIZON & DESIGN PROFESSIONAL FOR RECORD AT INCEPTION OF PROJECT. DAMAGES INCURRED DURING CONSTRUCTION SHALL BE REPAIRED / REPLACED BY CONTRACTOR AT CONTRACTORS SOLE EXPENSE. FAILURE TO COMPLY SHALL NEGATE FUTURE CLAIMS FOR DAMAGED ITEMS.
- 2. GENERAL CONTRACTOR TO PROVIDE FULL TIME LABORER AND SUPERVISION ON SITE WHEN ANY WORK IS BEING PERFORMED. PROVIDE CLEAN UP OF DEBRIS FROM AREAS OF WORK. SPACE(S) SHALL BE LEFT BROOM CLEAN AT THE END OF EVERY SHIFT (WHETHER STANDARD, PREMIUM OR SAFE TIME WORK). MASONITE IN CORRIDORS SHALL BE MOPPED PRIOR TO RE-OCCUPANCY OF AREA OF WORK.
- 3. IT IS THE INTENTION OF THESE DRAWINGS TO IDENTIFY A TYPICAL AREA AND SCOPE OF OF WORK FOR BASE PROTECTION SERVICES THROUGHOUT. FLOOR PROTECTION AND FURNITURE/EQUIPMENT PROTECTION WILL BE REQUIRED IN AREAS WHERE GENERAL CONSTRUCTION, MECHANICAL, ELECTRICAL, FIRE ALARM, AND FIRE PROTECTION WORK OCCURS. REFER TO ENGINEERING DRAWINGS FOR LOCATIONS OF WORK AND ADDITIONAL REQUIREMENTS.
- 4. DIVISION 16 CONTRACTOR TO PROVIDE TEMPORARY LIGHTING, POWER AND SMOKE DETECTION THROUGHOUT ALL AREAS OF WORK PRIOR TO DEMOLITION.
- 5. GENERAL CONTRACTOR TO CLEAN AND POLISH ALL VCT FLOOR AFTER COMPLETION OF WORK/REMOVAL OF PROTECTION.
- 5. DIVISION 16 CONTRACTOR TO MAINTAIN EXIT AND EMERGENCY LIGHTING FOR ADJACENT OR OCCUPIED SPACES DURING THE COURSE OF CONSTRUCTION. SHOULD ANY OF THESE SYSTEMS REQUIRE SHUTDOWN, NOTIFY THE VERIZON PROJECT MANAGER IN WRITING, WITH 72 HOUR NOTICE.
- GENERAL CONTRACTOR IS TO CLEAN TOILET ROOMS AND BREAK AREAS DESIGNATE FOR CONTRACTOR USE AT THE END OF EACH WORK DAY.
- 8. VERIZON MUST APPROVE PROTECTION BEFORE PROCEEDING WITH WORK.

ALL CONTRACTORS ARE RESPONSIBLE FOR COORDINATION OF THEIR WORK WITH THE WORK OF OTHER TRADESMEN. ALL DRAWINGS RELATED TO THE CONSTRUCTION OF THIS PROJECT, AS ENUMERATED ON SHEET T-1, ARE HEREIN REFERENCED FOR COORDINATION PURPOSES. ALL CONTRACTORS SHALL FAMILIARIZE THEMSELVES WITH THE COMPLETE SET OF DOCUMENTS AND SPECIFICATIONS FOR THIS PURPOSE. NO CHANGE ORDERS OR ADDITIONS TO THE CONTRACT SUM SHALL BE ENTERTAINED FOR LACK OF COORDINATION BETWEEN TRADES.

THESE DRAWINGS REPRESENT THE DESIGN INTENT FOR THIS PROJECT. DUE TO EXISTING FIELD CONDITIONS IT MAY BE REQUIRED TO VARY SCHEDULES, EQUIPMENT, EQUIPMENT LOCATIONS, ETC. ALL SIGNIFICANT VARIATIONS SHOULD BE APPROVED BY THE ENGINEER'S OFFICE PRIOR TO IMPLEMENTATION. SUBMISSIONS FOR ALL NEW MAJOR COMPONENTS SHOULD BE FORWARDED TO THE ENGINEER'S OFFICE VIA MAIL, FAX OR PHONE CONVERSATION FOR REVIEW. THE CONSTRUCTION MANAGER AND CONTRACTORS ARE ENCOURAGED TO COORDINATE WITH ENGINEER'S OFFICE REGARDING ANY QUESTIONS THAT MAY ARISE.

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 INTERNATIONAL ENERGY CONSERVATION CONSTRUCTION CODE.

SAFE TIME WORK

- 1. ALL SHUTDOWNS AND NEW CONNECTIONS TO EXISTING SERVICE SWITCHES SHALL BE DONE OUT OF HOURS AND WITHOUT INTERRUPTION UNTIL WORK IS COMPLETE.
- 2. COORDINATE WITH VERIZON TO BE IN ATTENDANCE DURING ANY SHUTDOWNS.

ORANGE AND ROCKLAND UTILITIES FEES

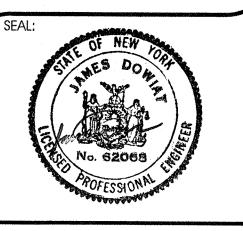
1. DIV. 16 SHALL COORDINATE AND SCHEDULE ALL WORK AND PAY ALL UTILITY FEES REQUIRED FOR SHUTDOWNS AND OUT OF HOURS PARTICIPATION BY ORANGE AND ROCKLAND UTILITIES.

IMPORTANT - CAUTION

- THIS IS A WORKING TELECOMMUNICATIONS BUILDING. NO WORK SHALL BE DONE THAT JEOPARDIZES THE PROPER OPERATION OF THE TELECOMMUNICATION EQUIPMENT.
- 2. WHEN ON LINE, THE NEW DIESEL GENERATOR AND PORTABLE GENERATOR START AUTOMATICALLY. ON LINE EQUIPMENT MUST BE PROTECTED. OBSERVE ALL CAUTIONS NECESSARY AND PRUDENT WHEN WORKING AROUND ON LINE EQUIPMENT TO PREVENT INJURY,



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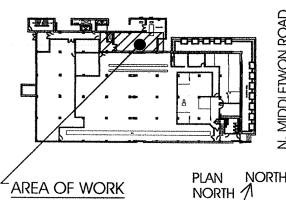


HILLMAN & MILEY



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KEY PLAN:



AREA OF WORK FIRST FLOOR

NO. DATE SUBMISSION/REV. 6/18/20201 ISSUED FOR BID. 8/7/2020 ISSUED FOR FILING



PEARL RIVER GENERATOR SPACE **PREPARATION**

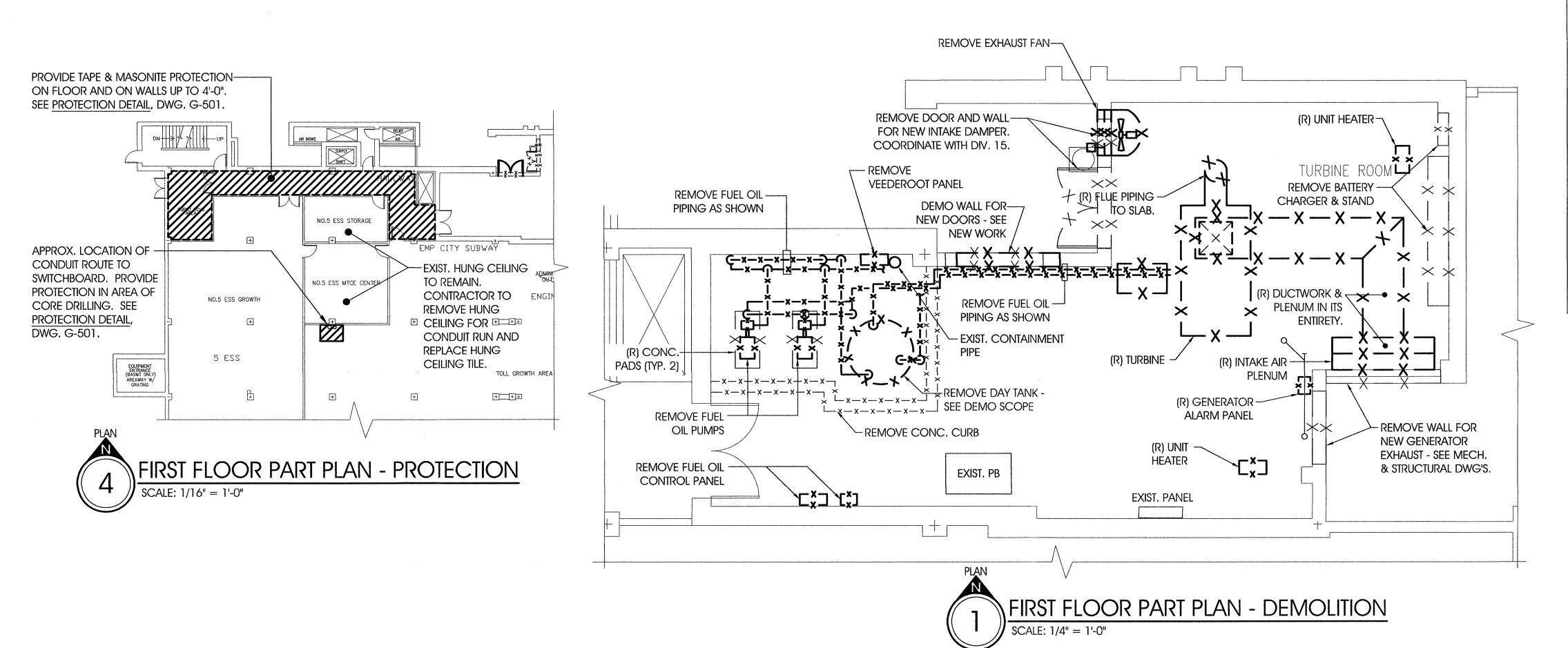
179 N MIDDLETOWN ROAD PEARL RIVER, NY

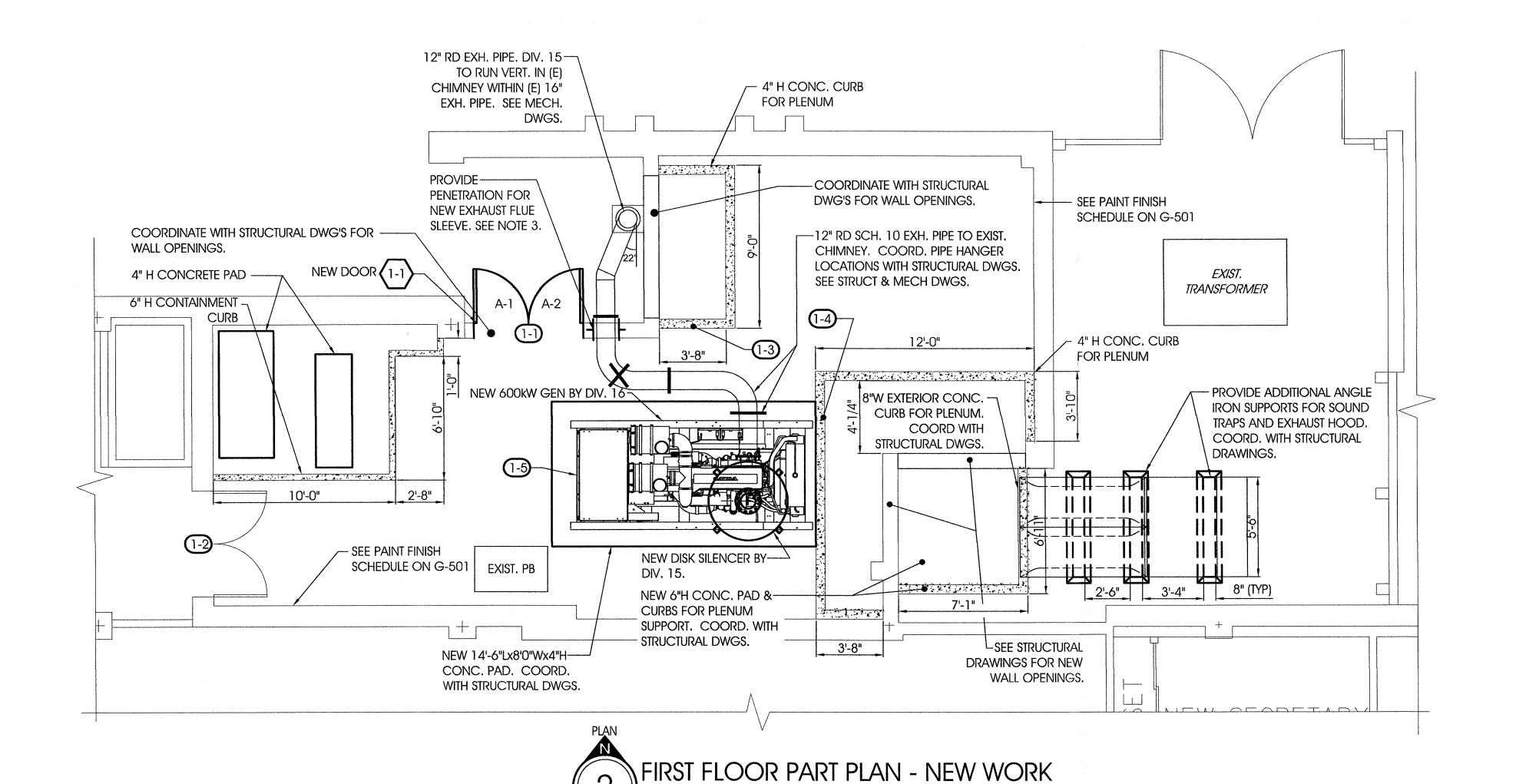
06/18/2020 SCALE: AS NOTE DRAWN BY: JBD/AH CHECKED BY: PROJECT NO .:

> GENERAL CONSTRUCTION: SYMBOLS & NOTES

DRAWING NO.:

G-001.00





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

DEMOLITION SCOPE OF WORK

GENERAL CONTRACTOR

THIS CONTRACTOR SHALL DISCARD ALL MATERIALS FROM SITE PERTAINING TO WALL DEMOLITION, DOOR DEMOLITION, AND VARIOUS DEBRIS.

MECHANICAL CONTRACTOR

DIVISION 15 SHALL DISCONNECT AND REMOVE ALL EQUIPMENT, PIPING, & DUCTWORK TO BE REMOVED. DRAIN ALL FLUIDS, INCLUDING ENGINE WATER JACKET, FUEL OIL, ETC.). DISPOSE OF FLUIDS PER LOCAL CODES. PROVIDE WRITTEN CERTIFICATION THAT FLUIDS ARE PROPERLY DISPOSED OF. REMOVE ALL SENSORS, DETECTORS, AND CONTROL WIRING AS SHOWN. REMOVE ALL CONTROL WIRING FOR CONTROL DEVICES TO BE REMOVED & UPDATE BMS ACCORDINGLY.

ELECTRICAL CONTRACTOR

DIVISION 16 SHALL DISCONNECT AND REMOVE ALL ELECTRICAL EQUIPMENT SCHEDULED FOR REMOVAL. DISCONNECT ALL LINE VOLTAGE FROM MECHANICAL EQUIPMENT, INCLUDING UNIT HEATERS, CONTROL DEVICES, MOTORIZED DAMPERS, MOTORS, ETC.

NOTE

. ALL ITEMS AND EQUIPMENT SHOWN ARE EXISTING TO REMAIN UNLESS NOTED AS NEW.

- 2. THE ELECTRICAL CONTRACTOR SHALL DELIVER ENGINE TO SITE FROM RIGGER'S YARD AND RIG ENGINE INTO THE BUILDING.
- 3. CONTRACTOR SHALL COORDINATE SIZE, LOCATION AND QTY OF ALL PENETRATIONS AND OPENINGS WITH STRUCTURAL, DIV. 15 & 16 DRAWINGS. PROVIDE SLEEVE FOR PENETRATION SEE DETAIL. FIRE STOP ALL WALL, CEILING SLAB AND FLOOR SLAB PENETRATIONS.
- 4. SEE FINISH & DOOR SCHEDULE ON G-501 FOR ADDITIONAL DETAILS AND NOTES.
- 5. COORDINATE ALL CURBS AND PADS WITH STRUCTURAL DRAWINGS, DIVISION 15 AND APPROVED SHOP DRAWINGS.

FLOOR FINISHING LEGEND



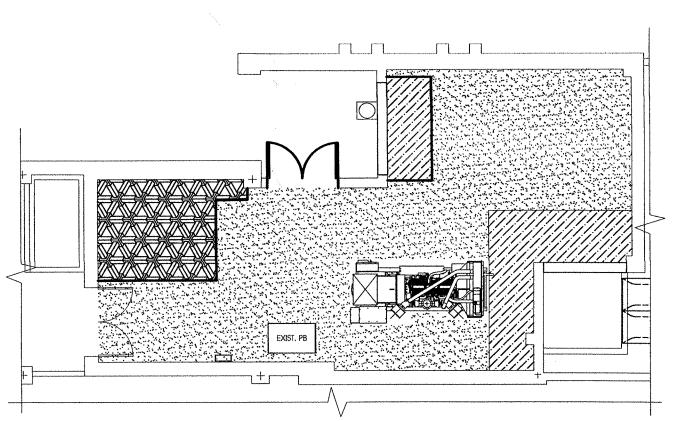
PROVIDE DEX-O-TEX "TEK-CRETE" WITH CP SEALER. APPLY TO NEW CONTAINMENT CURB. APPLY PER MANUFACTURER'S RECOMMENDATIONS.



(2) COMPONENT EPOXY - (2) COATS SHERWIN WILLIAMS ARMORSEAL 1000HS. COLOR TO BE BATTLESHIP GRAY (UNLESS OTHERWISE SPECIFIED BY VERIZON). APPLY PER MANUFACTURER'S RECOMMENDATIONS.



WATERPROOFING MEMBRANE - BASE BID ON DEX-O-TEX "M-E FLOORING". APPLY PER MANUFACTURER'S RECOMMENDATIONS.

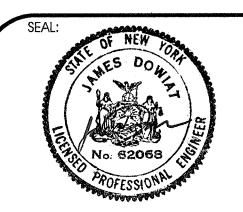


GENERATOR ROOM FLOOR FINISH PLAN

SCALE: 1/8" = 1'-0"



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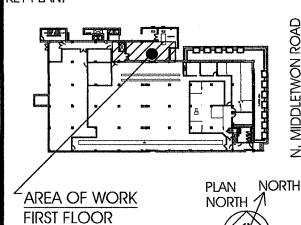


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CODES. KEY PLAN:



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verizon

PEARL RIVER GENERATOR SPACE PREPARATION

179 N MIDDLETOWN ROAD PEARL RIVER, NY

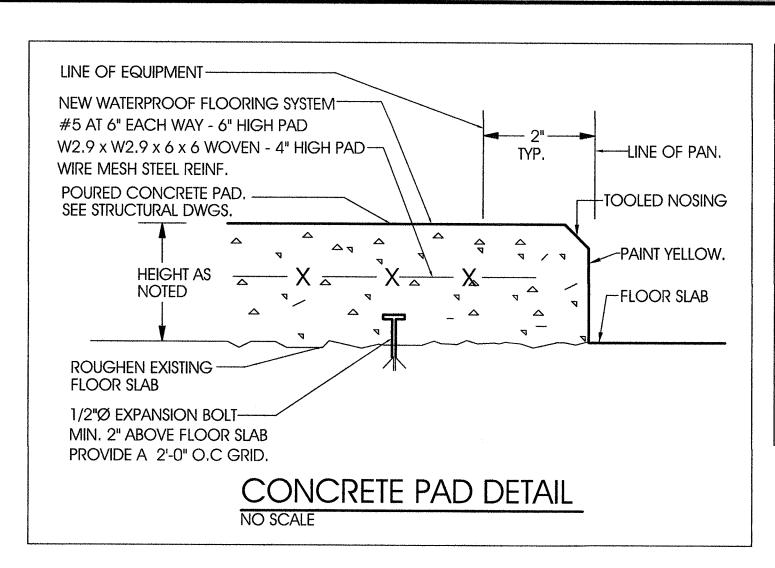
DATE: 06/18/2020
SCALE: AS NOTED
DRAWN BY: AH/VP
CHECKED BY: JBD/AH
PROJECT NO.: 4640
TITLE:

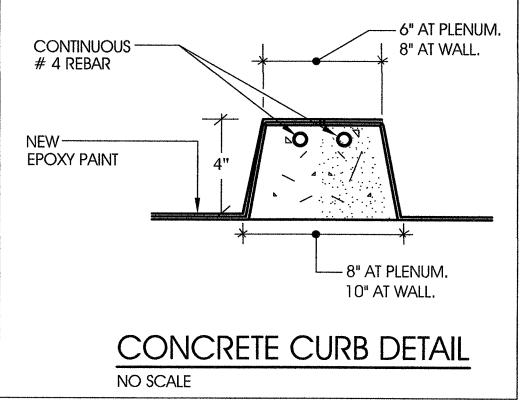
GENERAL CONSTRUCTION: FIRST FLOOR PART PLANS

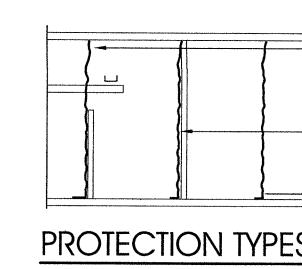
DRAWING NO.:

G-101.00

2 OF 3G







-TYPE A - +/-8'-0" HIGH STUDS WITH 1/4" TEMPERED MASONITE ON SWITCH SIDE. DRAPED 10 MIL NFPA 701 FIRE RETARDANT PLASTIC FROM TOP OF MASONITE TO CEILING SLAB. -TYPE B - FIRE RETARDANT WOOD STUDS WITH DRAPED 10 MIL NFPA 701 FIRE RETARDANT PLASTIC. -TYPE C - 10 MIL NFPA 701 FIRE RETARDANT

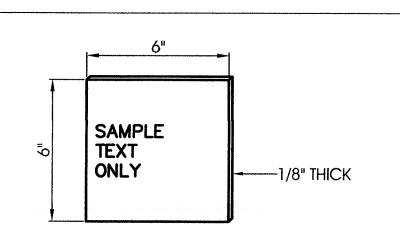
PLASTIC DRAPED FROM CEILING TO FLOOR SLAB. PROTECTION TYPES A, B AND C

PROTECTION DETAILS

THESE PROTECTION DIAGRAMS ARE TO BE USED FOR ALL WORK IN SPACES LISTED ABOVE AND AS CALLED OUT ON THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL FOLLOW THE INTENT DESCRIBED. HOWEVER, DUE TO VARIATION IN EXISTING SPACES, MODIFICATIONS ARE PERMISSIBLE TO THE ACTUAL LAYOUT AND CONFIGURATION OF PROTECTION, ALL PROTECTION MUST BE APPROVED BY THE OWNER AND ARCHITECT PRIOR TO WORK STARTING.

2. ALL EQUIPMENT AND GANG BOXES SHALL BE STORED ON TEMPERED MASONITE SHEETS IN ALLOCATED STAGING AREA WHERE DIRECTED BY VERIZON.

SIGNAGE SCHEDULE								
DOOR NO.	TEXT	SIGN COLOR	NOTES					
1-1	EXIT NO RE-ENTRY	RED	NEW DOORS					
1-2	DIESEL GENERATOR ROOM	RED	EXISTING DOOR					
1-3	INTAKE PLENUM NO EXIT	RED	ACCESS DOOR BY DIV. 15					
1-4	EXHAUST PLENUM NO EXIT -CAUTION - GENERATOR STARTS AUTOMATICALLY	RED	ACCESS DOOR BY DIV. 15					
1-5	600KW, 208V, 3PH GENERATOR CAUTION - GENERATOR STARTS AUTOMATICALLY	RED	GENERATOR					

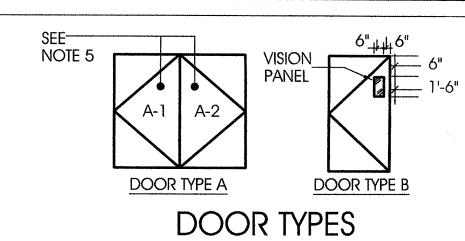


SIGN DETAIL - NOTES

SIGN TYPE: ADA ROOM ID MATERIAL: 0.32" PHOTOPOLYMER ON 1/8" ACRYLIC LETTER STYLE: HELVETICA REG. LETTER SIZE: 5/8" (UPPER CASE) LETTER COLOR: WHITE

MOUNTING: ADHESIVE BACKED MOUNTING LOCATION: 60" ABOVE FLOOR.

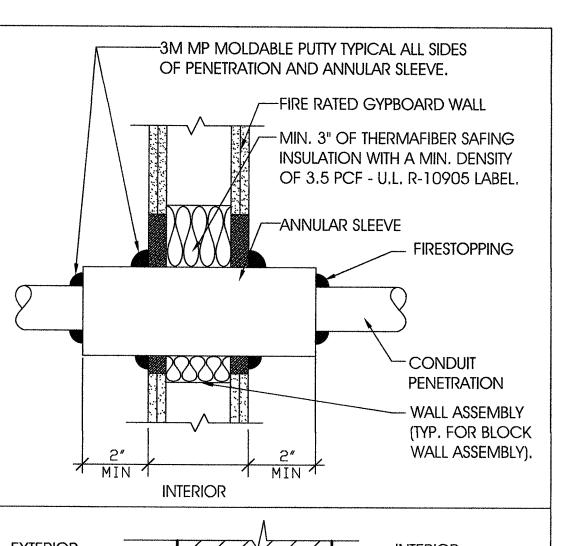
	DOOR SCHEDULE								
OOR#	DOOR TYPE	LOCATION	DESCRIPTION	OVERALL SIZE	DOOR SIZE	ANSI FUNCT.#	HARDWARE SET	FIRE LABEL	REMARKS
1-1	Α	GEN RM. DOOR TO EXTERIOR	HM	6'-5" W x 7'-8" H	6'-0" W x 7'-6" H	-	 PANIC BAR EXIT, KEY LOCK EXTERIOR ENTRY DOOR CLOSER SILENCERS ASTRAGAL WITH WEATHERSTRIPPING 	B 90 MIN	SEE NOTES 2, 3, 4

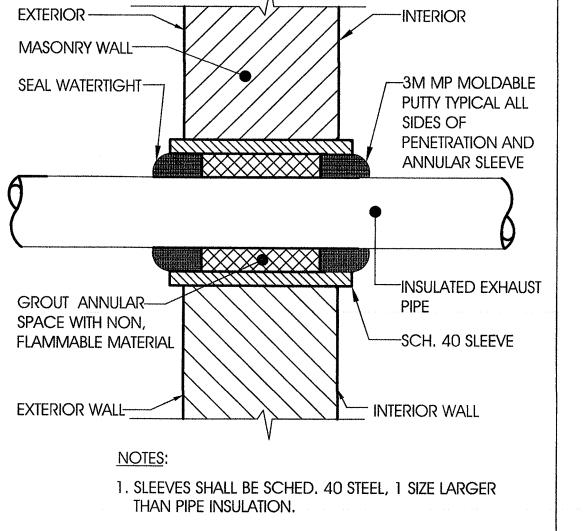


DOORS NOTES:

- DOOR SHALL BE INSTALLED IN EXISTING OPENING, REMOVE EXISTING DOOR & FRAME, PROVIDE NEW.
- 2. DOOR SHALL BE INSTALLED IN NEW OPENING. CUT & PATCH EXISTING WALL AS REQUIRED.
- 3. ALL DOOR ASSEMBLY DIMENSIONS SHALL BE FIELD VERIFIED PRIOR TO PURCHASED & INSTALLATION BY G.C.
- 4. SEE SPECIFICATIONS FOR DOOR & HARDWARE REQUIREMENTS.
- 5. PROVIDE DOOR LEAF A-1 WITH PANIC BAR AND LOCK CYLINDER WITH PULL HANDLE FOR EXTERIOR ENTRY. PROVIDE DOOR LEAF A-2 WITH TOP AND BOTTOM SURFACE BOLTS - ROCKWOOD MANUF, TYPE 580-8.26D OR EQUAL.

FINISH SCHEDULE								
SPACE BASE WALLS					LACOT	CEILINGS	PAINTING SPECIFICATIONS	REMARKS
		NORTH	SOUTH	EAST	WEST			
GENERATOR ROOM	NONE	PAINT	PAINT	PAINT	PAINT	SCRAPE, PATCH & PAINT	WALL & CEILING: (1) COAT SHERWIN WILLIAMS PROMAR 200 ZERO VOC. (2) COATS SHERWIN WILLIAMS PRO INDUSTRIAL ACRYLIC SEMI-GLOSS "EG-SHELL" FINISH. COLOR SHALL BE DECORATOR'S WHITE, UNLESS OTHERWISE SPECIFIED BY VERIZON.	DASH-PATCH ALL SURFACES TO BE PAINTED. PREPARE SURFACE & APPLY PAINT PER MANUF. DIRECTIONS. FIRESTOP ALL NEW PENETRATIONS. PAINT ALL NEW CURBS YELLOW.



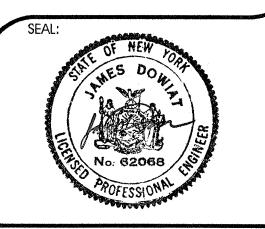


PIPE/CONDUIT WALL PENETRATION

NO SCALE:



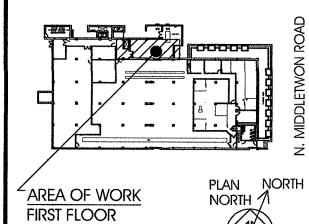
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PEARL RIVER GENERATOR SPACE **PREPARATION**

179 N MIDDLETOWN ROAD PEARL RIVER, NY

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GENERAL CONSTRUCTION: **DETAILS & SCHEDULES**

DRAWING NO.:

G-501.00

FAN SCHEDULE						
COLUMN NUMBER		1				
SYSTEM NO.		-				
	UNIT NO	EF-GEN				
	SPEC. TYPE	PROP				
	C.F.M.	3,100				
	S.P. (in. w.g.)	0.375				
	O.V. FPM	-				
	R.P.M.	860				
FAN	B.H.P.	0.35				
	DRIVE	DIRECT				
	BASE	-				
	CLASS	7				
	ARRANGEMENT	-				
MOTOR	H.P.	1				
WOTOK	R.P.M.	1750				
	VOLTAGE/PHASE	200/3				
	ENCL. TYPE	ODP				
	NEMA DES	В				
DISCONNECT	SPEC. TYPE	-				
DIOCOLAINECT	NEMA ENCL	1				
STARTER	SPEC. TYPE	VFD				
	NEMA ENCL	1				
WHEEL DIAINCHES	:	20				

REMARKS

- . FOR ROTATION, DISCHARGE, AND MOTOR
- POSITION, SEE DRAWINGS.
- 2. PROVIDE REMOVABLE SAFETY CAGE
- 3. PROVIDE SPARE FAN MOTOR ON SITE.

EF-GEN BASED ON GREENHECK SE2-20-410-A3 DDOD EYHALIST FAN

	PROP EXI	HAUST FAN		
	PUMP SC	HEDULE		
COLUMN NUMBER		1	2	
UNIT NUMBER		FOP-1 & 2	FOP-3	
SYSTEM NO.		-	PUMP DOWN	
SPEC. TYPE		POS. DISP.	POS. DISP.	
	FLUID	DIESEL NO. 2	DIESEL NO. 2	
	TEMP. F.	60	60	
	GPH	90	120	
FLUID DATA	DISCH. HEAD	25 PSIG	25 PSIG	
TEOLO DI UIT	SUCTION HEAD FT.	-	-	
	NET HEAD FT.	-	400	
	N.P.S.H.	eest .	-	
	B.H.P.	-	49007	
PUMP DATA	R.P.M.	1750	1750	
CASING PRESSURE	RATING	_	-	
	SPEC. TYPE	TEFC	TEFC	
MOTOD	H.P.	1.5	1.5	
MOTOR 208V, 3PH,	R.P.M.	1750	1750	
(FOP 1,2, & 3)	ENCL. TYPE	В	В	
(1 01 1/2/ 0.0)	NEMA DES	1	1	
	SPEC. TYPE	FUSED	FUSED	
DISCONNECT	NEMA ENCL	1	1	
AT 4 DTCD	SPEC. TYPE	COMB. MAG.	MANUAL	
STARTER	NEMA ENCL	1	1	
ELEC. CONT DIAG	FRAM NUMBER		:	
M.C.C. NUMBER	antan yada arraman yada pada kuma maka maka arraman arraman arraman arraman arraman arraman arraman arraman ar		****	
BASE SPEC. TYPE		STEEL	STEEL	
REMARKS		BASED ON VIKING GENERAL PURPOSE FO PUMP	BASED ON VIKING GENERAL PURPOSE FO PUMP	
		BASE MOUNTED	BASE MOUNTED	

NEW GENERATOR AND RIGGING NOTES

- NEW GENERATOR SET WILL BE KOHLER MODEL 600REOZVB, 600KW, 208V, 3PHASE, 4-WIRE WITH ON-SET RADIATOR.
- 2. KINSLEY POWER SYSTEMS SHALL DISASSEMBLE GENERATOR AT KINSLEY'S YARD. DIVISION 16 SHALL PICK UP EQUIPMENT FROM KINSLEY YARD AND DELIVER TO SITE. ADDRESS FOR KINSLEY YARD IS:
- KINSLEY GROUP, 14 CONNECTICUT SOUTH DRIVE, EAST GRANBY, CT 06026. THE INDIVIDUAL ENGINE PIECES ARE AS FOLLOWS:
- RADIATOR
- ENGINE BASE WITH CONTROL PANEL
- ALTERNATOR
- ENGINE RAILING ACCESSORIES WILL INCLUDE EXPANSION JOINTS, SILENCERS, FUEL OIL SPECIALTIES. DIV. 16 SHALL COORDINATE WITH KINSLEY POWER SYSTEMS FOR COMPLETE LIST OF EQUIPMENT.
- 3. VERIZON WILL PURCHASE THE ENGINE AND ACCESSORIES AND PROVIDE CUTS OF ALL EQUIPMENT
- 4. DIV. 16 SHALL DELIVER THE SILENCERS TO THE SITE AND RIG THE SILENCERS INTO THE BUILDING FOR DIV. 15 TO SET IT IN PLACE.
- 5. DIV. 16 SHALL DELIVER THE ENGINE PIECES TO THE SITE AND RIG THE PIECES INTO THE BUILDING. KINSLEY POWER SYSTEMS SHALL REASSEMBLE THE GENERATOR SET. CLOSELY COORDINATE WITH KINSLEY POWER SYSTEMS TO PHASE THE RIGGING AND ASSIST KINSLEY POWER SYSTEMS DURING REASSEMBLY.
- 6. DIV. 16 SHALL DELIVER TO THE SITE LOOSE EQUIPMENT TO BE INSTALLED BY DIV. 15. 7. DIV. 15 TO INSTALL EXPANSION JOINTS AND FUEL OIL ACCESSORIES PROVIDED BY KINSLEY POWER SYSTEMS.
- 8. VERIZON WILL PROVIDE FOR KINSLEY POWER SYSTEMS SUPERVISION FOR RIGGING, LEVELING AND START UP OF THE GENERATOR SET. DIV. 16 SHALL LEVEL THE ENGINE WITH ISOLATORS INSTALLED.
- 9. THE PRIME CONTRACTOR SHALL BE RESPONSIBLE FOR RIGGING IN ALL GENERAL CONSTRUCTION AND MECHANICAL EQUIPMENT.

10. RIGGING OF ALL OTHER DIV. 16 EQUIPMENT WILL BE THE RESPONSIBILITY OF DIV. 16

CONTRACTOR NOTES:

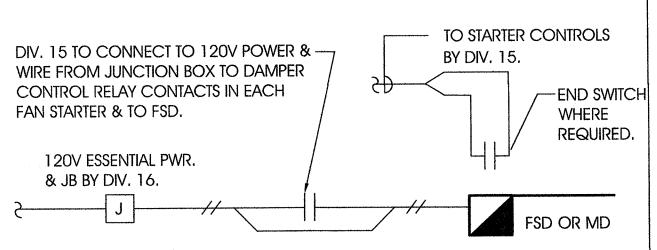
- 1. THE CONTRACTOR SHALL REVIEW THE ENTIRE SET OF DRAWINGS AND SPECIFICATIONS TO DETERMINE THEIR RESPECTIVE SCOPE OF WORK.
- 2. THE CONTRACTORS SHALL SCHEDULE AND COORDINATE THEIR WORK AS DIRECTED BY THE CONSTRUCTION MANAGER.
- 3. CONTRACTOR TO BE AWARE THAT THIS IS AN ACTIVE TELCO CENTRAL OFFICE AND GENERATOR ROOM. ALL PRECAUTIONS FOR PROTECTION AND AUTO START OF GENERATORS MUST BE HEEDED.

VERIZON SUPPLIED EQUIPMENT

OBTAIN CUTS OF ALL VERIZON SUPPLIED EQUIPMENT INCLUDING INSTALLATION MANUALS. DETERMINE WHAT EQUIPMENT THE CONTRACTOR IS TO INSTALL. PROVIDE ALL HANGERS, SUPPORTS, PULL BOXES, WIRING, CONTROLS, AND ACCESSORIES NECESSARY FOR A COMPLETE SYSTEM FOR ALL EQUIPMENT SUPPLIED BY VERIZON SHALL BE INSTALLED BY THE CONTRACTOR.

MECHANICAL ALTERATION NOTES

- EXISTING ITEMS AND ASSOCIATED PIPING SHALL BE DISCONNECTED AND REMOVED AS INDICATED WHERE NEW WORK CONNECTS TO EXISTING WORK, REMOVE ALL EXISTING WORK PAST POINT OF NEW CONNECTION.
- 2. DISCONNECT, REMOVE AND CAP OUT OF WORK AREA, ALL EXISTING SYSTEMS AND SERVICES NOT TO BE REUSED.
- 3. EXISTING ITEMS THAT ARE BEING DISCONNECTED AND REMOVED AND NOT BEING USED SHALL BE DISPOSED OF AS DIRECTED. 4. ITEMS SHOWN AS EXISTING ON THE DRAWINGS SHALL REMAIN UNLESS
- OTHERWISE NOTED.
- SEAL OPENINGS IN WALLS AT PIPE/CONDUIT PENETRATIONS. DO NOT INTERRUPT ANY OF THE SERVICES OF THE EXISTING BUILDING NOR INTERFERE WITH THE SERVICES IN ANY WAY WITHOUT EXPRESSED PERMISSION. SUCH INTERRUPTIONS AND INTERFERENCE SHALL BE MADE AS BRIEF AS POSSIBLE AND ONLY AT THE DESIGNATED TIMES. A MOP MUST BE PREPARED FOR ALL WORK.
- WHEN DEMOLITION WORK REQUIRES THE SHUTDOWN OF THE EXISTING OPERATING BUILDING SYSTEMS, THE DEMOLITION WORK SHALL BE PERFORMED ONLY AFTER NOTIFYING OWNER AND RECEIVING PERMISSION. SUCH INTERRUPTIONS AND INTERFERENCE SHALL BE MADE ON "SAFE TIMES"



MD & FSD WIRING DIAGRAM

- 1. MD'S AND FSD'S MAY BE "DAISY-CHAINED" WITH A MAXIMUM OF 8 FSD MOTORS PER CIRCUIT BASED ON 1.25 MAX AMPS PER MOTOR, COORDINATE WITH DAMPER MANUFACTURER.
- 2. PROGRAM END SWITCHES FOR DAMPER STATUS AND TO NOT ALLOW RESPECTIVE FAN TO START IF DAMPER DOES NOT PROVE OPEN. PROVIDE BMS ALARM FOR MALFUNCTIONING DAMPERS.

MECHANICAL GENERAL NOTES

- THE DRAWINGS ARE TO BE CONSIDERED SCHEMATIC ONLY AND DO NOT NECESSARILY SHOW THE EXACT LOCATION AND DETAILS OF THE WORK TO BE INSTALLED. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, CLEARANCES, ELEVATIONS, PIPING AND DUCTWORK SIZES LOCATIONS IN THE FIELD. PROVIDE ALL RISES & DROPS OF DUCTWORK & PIPING AS REQUIRED TO ACHIEVE ROUTING SHOWN.
- CONTRACTOR SHALL VISIT SITE PRIOR TO SUBMITTING BIDS. CONTRACTOR IS RESPONSIBLE FOR ALL CHANGES TO WORK OF ALL TRADES NECESSITATED BY PROVIDING EQUIPMENT DIFFERING IN ANY RESPECT FROM
- THAT SPECIFIED. ALL WORK SHALL BE INSTALLED PER ALL REQUIREMENTS OF THE BUILDING CODE AND LOCAL ORDINANCES. THE CONTRACTOR SHALL PAY FOR AND SECURE ALL PERMITS.
- WHERE EQUIPMENT DATA IS NOT SHOWN ON PLANS OR DRAWING
- SCHEDULES, REFER TO THE DRAWING SPECIFICATIONS. ALL EQUIPMENT SHALL BE SELECTED TO FIT AVAILABLE SPACE.
- PROVIDE HINGED DUCT ACCESS DOORS AT ALL SMOKE DETECTORS, MOTORIZED DAMPERS AND CONTROLS.
- DRAWINGS PROVIDED ARE NOT TO BE SCALED AND ARE PROVIDED FOR REFERENCE, VERIFY ALL EXISTING DIMENSIONS IN FIELD.
- GENERAL CONTRACTOR TO PROVIDE FULL TIME SUPERVISION (NOT A TRADE PERSON) ACCEPTABLE TO VERIZON AT SITE WHENEVER GENERAL CONTRACTOR OR ANY OF HIS TRADES ARE WORKING. THIS INDIVIDUAL MUST BE KNOWLEDGEABLE IN ALL ASPECTS OF BUILDING SYSTEMS AND CONSTRUCTION AND BE ACCEPTABLE TO THE VERIZON REPRESENTATIVE OR BE REPLACED AT NO ADDITIONAL COST TO VERIZON. ALSO VERIZON MAY REJECT CONTRACTOR'S BID IF A QUALIFIED SUPERVISOR ACCEPTABLE TO VERIZON IS NOT PROVIDED.
- 10. ALL WORKERS SHALL BE ABLE TO COMMUNICATE IN ENGLISH TO THE VERIZON REPRESENTATIVE AND BE ACCEPTABLE TO THE VERIZON REPRESENTATIVE OR BE REPLACED AT NO ADDITIONAL COST TO VERIZON.
- WHENEVER POLYETHYLENE IS USED AS PROTECTIVE TARPAULINS OR DROP CLOTHS, IT SHALL BE 10 MIL NFPA 701 FIRE-RETARDANT PLASTIC SHEET. THE PRODUCT SHALL BEAR 3/4" LETTERS PRINTED CONTINUOUSLY ALONG ONE EDGE IN CONTRASTING COLOR THE WORDS "NFPA 701 FIRE RETARDING PLASTIC SHEET."
- 12. CONTRACTOR SHALL PROVIDE & MAINTAIN A 'MATERIAL SAFETY DATA SHEET" (MSDS) FOR ALL MIXTURES AND SOLUTIONS PROPOSED FOR USE DURING CONSTRUCTION IN THIS BUILDING BY THE GENERAL CONTRACTOR OR ANY OF THE SUBCONTRACTORS. MSDS SHALL BE KEPT ON SITE AND BE AVAILABLE TO VERIZON FIELD ENGINEER UPON REQUEST.
- 13. THE CONTRACTOR AND THE SUBCONTRACTORS ARE TO PREPARE VERIZON METHOD OF PROCEDURE (MOP) DOCUMENTS FOR ALL WORK.
- 14. CONTRACTOR TO COMPLY TO ALL DRAWINGS AND SPECIFICATION AND PROJECT MANUAL DOCUMENTS.

TIME AND MANNER NOTES (SAFE TIME WORK)

- 1. ANY WORK DONE IN OR AFFECTING NON TELCO EQUIPMENT AREAS SHALL BE PERFORMED ON STRAIGHT TIME DURING NORMAL HOURS. ALL EXTERIOR WORK CAN BE PERFORMED DURING NORMAL HOURS. THIS INCLUDES WORK TO INSTALL A/C UNIT ONCE TEMPORARY PROTECTION IS INSTALLED AND APPROVED
- 2. ANY WORK DONE IN OR AFFECTING TELCO EQUIPMENT, BATTERY'S AND POWER AREA SHALL BE PERFORMED ON "SAFE TIME". SAFE TIME IS DEFINED AS 12AM TO 6AM MONDAY THRU FRIDAY, SATURDAY AND SUNDAY. THE TEMPORARY PROTECTION AROUND THE DEMO AREA TO BE INSTALLED ON SAFE TIMES. ALL WORK INSTALLED WITHIN TEMPORARY PROTECTION TO BE DURING NORMAL HOURS.
- REMOVED EXISTING AND INSTALL NEW DUCTWORK ABOVE TELCO ON "SAFE TIMES". DUCTWORK INSTALLED IN PROTECTED AREA BY UNIT CAN BE ON NORMAL HOURS.
- OUT OF HOUR WHEN WORKING WITHIN 10'-0" OF TELCO EQUIPMENT ABOVE AND SIDE.

ADDITIONAL NOTES

- . CONSTRUCTION SCHEDULE TO BE PROVIDED WITHIN 2 WEEKS AFTER PO ISSUANCE. PROVIDE REVISED SCHEDULE IF DATES CHANGE ALONG WITH EXPLANATION.
- 2. SUBMITTALS AND SHOP DRAWINGS ARE A MUST (IF ITEM, DEVICE, OR EQUIPMENT IS INSTALLED NOT PER DRAWING AND A SUBMITTAL WAS NOT APPROVED, THE CONTRACTOR WILL BE REQUIRED TO CORRECT THE ITEM, DEVICE OR EQUIPMENT).
- 3. KEEP A COPY OF BID DRAWINGS, ADDENDUMS AND MINUTES OF MEETINGS AT SITE.
- 4. BRING AS-BUILT DRAWINGS, LAMINATED CONTROL DIAGRAMS AND O&M'S TO FINAL INSPECTION.
- 5. PROVIDE ALL PERMIT SIGN OFFS TO VERIZON AT FINAL INSPECTION. 6. PROVIDE WARRANTY LABELS ON ALL INSTALLED EQUIPMENT (FANS, ETC.)
- 7. CONTRACTORS TO COORDINATE/COMMUNICATE WITH RISKY WORK THRU CM SO THATCM CAN CONFIRM THAT ALL NECESSARY PRE-CAUTION HAVE BEEN TAKEN TO ADVERT AN OUTAGE OR HARM TO PERSONS OR PROPERTY.

NYS ECC COMPLIANCE

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 NEW YORK STATE ENERGY CONSERVATION CODE.

SYMBOL LIST

existing	D-//-(\$)	DDC SYSTEM SENSOR
ITEM TO BE REMOVED	D-//-	BMS CONTROL CONNECTION
NEW NEW CONNECTION REPLACE FLOW SWITCH PRESSURE GAUGE (PROVIDE SINGLE OR MULTIPLE COCKS) STEM THERMOMETER (IN WELL) STARTER OR VFD BUTTERFLY VALVE FIRE SMOKE DAMPER		BMS CONTROL CONNECTION DIFFERENTIAL PRESSURE SENSOR MECHANICAL DRAWING REFERENCE NOTE MOTORIZED DAMPER TEMPERATURE SENSOR BREAK GLASS STATION (EPO) CURRENT SENSOR MAGNAHELIC PRESSURE GAUGE REFRIGERANT DETECTOR HYDROGEN DETECTOR LOCAL THERMOSTAT PIPING DN PIPING UP COMB. FIRE SMOKE DAMPER
SINGLE PHASE POWER THREE PHASE POWER FAST FUEL SENSOR	- - - ∑	COMBINATION MAGNETIC STARTER OR VFD DISCONNECT JUNCTION BOX
	NEW NEW CONNECTION REPLACE FLOW SWITCH PRESSURE GAUGE (PROVIDE SINGLE OR MULTIPLE COCKS) STEM THERMOMETER (IN WELL) STARTER OR VFD BUTTERFLY VALVE FIRE SMOKE DAMPER SINGLE PHASE POWER THREE PHASE POWER	ITEM TO BE REMOVED NEW NEW CONNECTION REPLACE FLOW SWITCH PRESSURE GAUGE (PROVIDE SINGLE OR MULTIPLE COCKS) STEM THERMOMETER (IN WELL) STARTER OR VFD BUTTERFLY VALVE GATE VALVE FIRE SMOKE DAMPER SINGLE PHASE POWER THREE PHASE POWER FAST FUEL SENSOR

ABBREVIATIONS LIST

AFF	ABOVE FINISHED FLOOR	СН	CHILLER
CT	COOLING TOWER	ETR	EXISTING TO REMAIN
FOS	FUEL OIL SUPPLY	CONN.	CONNECT
FOR	FUEL OIL RETURN	AIP	ABANDONED IN PLACE
VFD	VARIABLE FREQUENCY DRIVE	MM	FIRE ALARM MONITOR MODULE
AD	ACCESS DOOR	BMS, BAS, MPS	BUILDING MANAGEMENT
MD	MOTORIZED DAMPER	5,7,10, 5, 10, 11, 1	SYSTEM
FD	FIRE DAMPER	MER	MECHANICAL EQUIPMENT ROC
FSD	FIRE SMOKE DAMPER	CW	COLD WATER
		HW	HOT WATER
GR	GLYCOL SUPPLY	CDT	CONDUIT
G\$	GLYCOL SUPPLY	G	GROUND
HP	HORSEPOWER	SA	SUPPLY AIR
MA	MIXED AIR	RA	RETURN AIR
OA	OUTSIDE AIR	MV	MOTORIZED VALVE
EA	EXHAUST AIR	RHC	REHEAT COIL
EXH	EXHAUST	FC	FLEX CONNECTION
DDC	DIRECT DIGITAL CONTROL	VIF	VERIFY IN FIELD
VAV	VARIABLE AIR VOLUME	ES	END SWITCH
V	VENT	REL	RELOCATE
S	SANITARY		

BUILDING DEPARTMENT NOTES

- 1. ALL WORK SHALL BE IN ACCORDANCE WITH ALL LOCAL AND STATE BUILDING CODES. 2. CONSTRUCTION MANAGER SHALL FILE FOR, & PAY ALL FEES FOR BUILDING DEPARTMENT
- PERMIT, COORDINATE ALL REQUIREMENTS WITH VERIZON. 3. PROVIDE VERIZON WITH CO SHOWING ALL PERMITS HAVE BEEN CLOSED.

ALL CONTRACTORS ARE RESPONSIBLE FOR COORDINATION OF THEIR WORK WITH THE WORK OF OTHER TRADESMEN. ALL DRAWINGS RELATED TO THE CONSTRUCTION OF THIS PROJECT, AS ENUMERATED ON SHEET T-1, ARE HEREIN REFERENCED FOR COORDINATION PURPOSES. ALL CONTRACTORS SHALL FAMILIARIZE THEMSELVES WITH THE COMPLETE SET OF DOCUMENTS AND SPECIFICATIONS FOR THIS PURPOSE. NO CHANGE ORDERS OR ADDITIONS TO THE CONTRACT SUM SHALL BE ENTERTAINED FOR LACK OF COORDINATION BETWEEN TRADES.

Professional Engineers

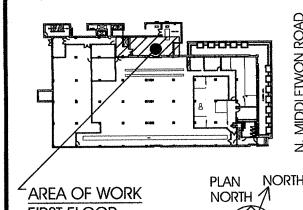
Arthur R. Breuer, PE, PLLC 24 North Greeley Avenue, Chappaqua, NY 10514 (Phone) 914-238-5433 (Fax) 914-238-4472 (Email) info@arbpe.com



HILLMAN & MILEY



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FIRST FLOOR

NO. DATE SUBMISSION/REV. 6/18/2020 ISSUED FOR BID 8/7/2020 ISSUED FOR FILING

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PEARL RIVER **GENERATOR SPACE PREPARATION**

179 N MIDDLETOWN ROAD PEARL RIVER, NY

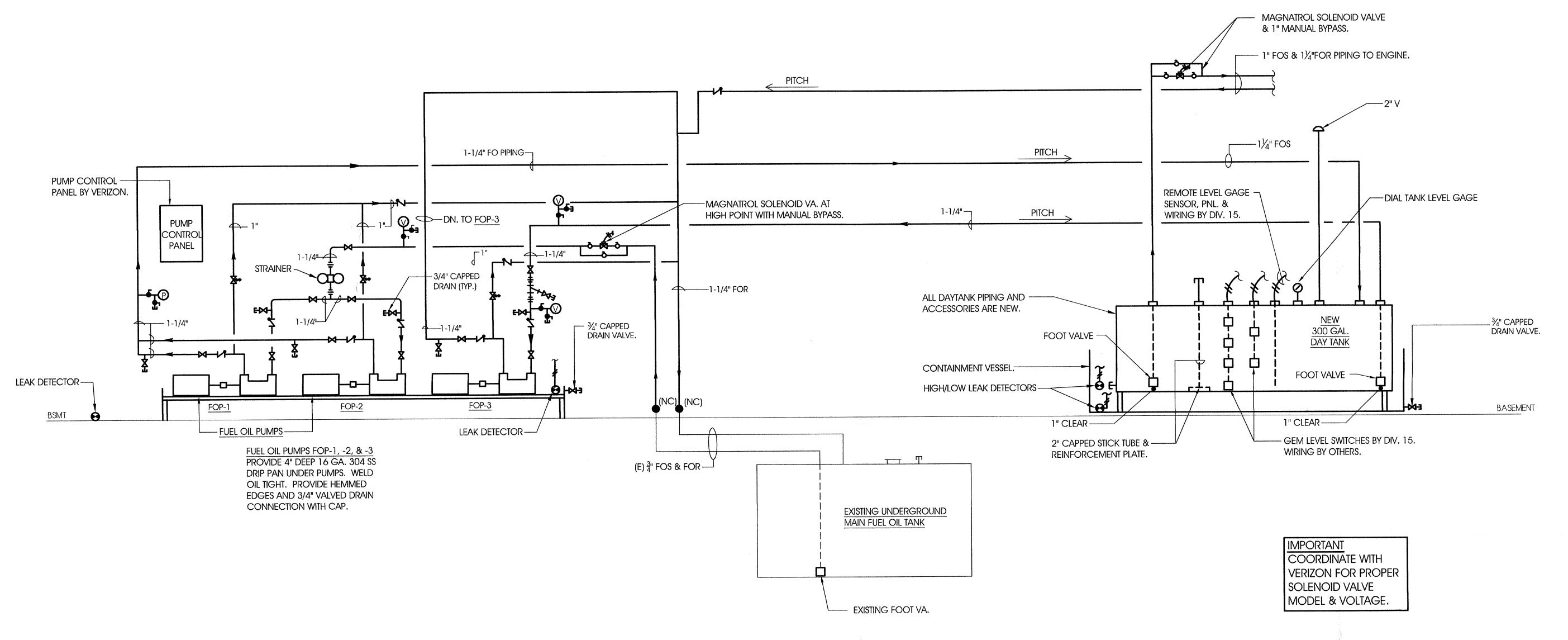
06/18/202 AS NOTE DRAWN BY: JBD/AH CHECKED BY: PROJECT NO .:

MECHANICAL: SYMBOLS, NOTES &

DIAGRAMS

DRAWING NO .:

M-001.00



DAY TANK LEVEL CONTROLS

- THE FOLLOWING LEVEL SWITCHES SHALL BE USED: GEMS ISCO MODEL LS-800 GROUP 2. NUMBER OF DETECTING STATIONS: 4 OR 2 WIRING GROUP 2 FOR 2 NPT MOUNTING THREADS, TYPE 304 STAINLESS STEEL WTEM AND TOP MOUNTING PINS 10558.
- ALL SWITCHES SHALL BE 15 WATT TYPE EXCEPT FOR RS3 WHICH IS A 100 WATT SWITCH.
- RS1, RS2, RS3, RS5 SHALL BE NORMALLY CLOSED AND RS4 & RS6 SHALL BE NORMALLY OPEN.
- SWITCHES SHALL BE SET AT THE FOLLOWING TANK LEVELS:

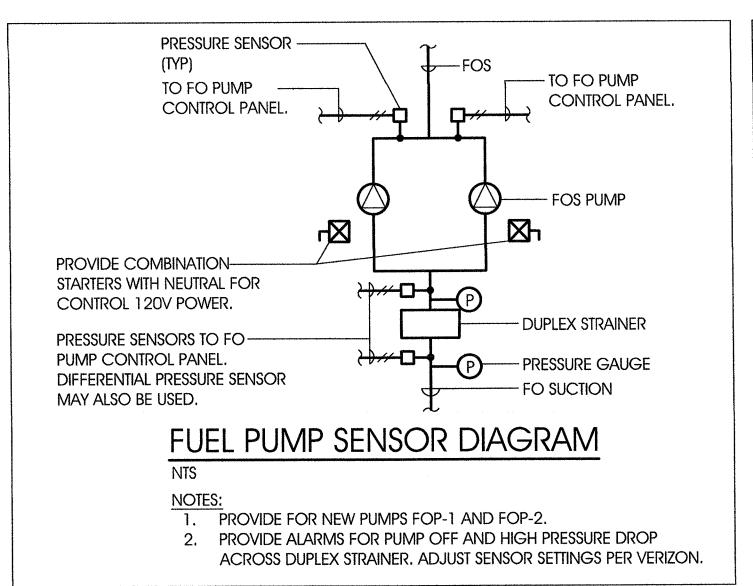
SWITCH LEVEL FUNCTION RS1, 2, 3, & 5	OPERATION POINT PERCENT
HIGH LEVEL ALARM	90 PERCENT
PUMP STOP	80 PERCENT
PUMP START	65 PERCENT
LOW LEVEL ALARM	50 PERCENT

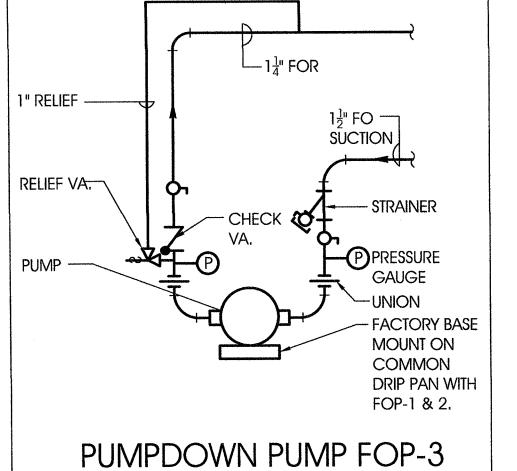
SWITCH LEVEL FUNCTION RS4 & 6	OPERATION POINT PERCENT
START LAG PUMP	90 PERCENT
ENGINE COOL DOWN THEN SHUTDOWN	10 PERCENT

FUEL OIL TANK AND PUMP PIPING DIAGRAM

NOTES:

- 1. ALL ITEMS AND EQUIPMENT SHOWN IS NEW UNLESS NOTED AS EXISTING.
- 2. PUMP POWER AND CONTROL WIRING, STARTERS & PUMP CONTROL PANEL BY
- VERIZON POWER. 3. MAGNATROL SOLENOID VALVE SHALL BE TYPE 'A' FULL PORT TYPE#G118A45SCHDVO, GENERAL PURPOSE NEMA 12 VALVE WITH SCREWED ENDS, 24VOLTS DC ACTIVATED WITH VITON DISK & RATED FOR FUEL OIL.
- 4. COORDINATE ALL WORK WITH VERIZON.
- 5. ALL DAY TANK CONNECTIONS SHALL BE 2" BUSHED. VERIFY CONNECTION SIZE WITH FOOT VALVE, LEVEL SENSOR AND GEM SWITCH SIZE. FUEL OIL PIPING SHALL BE SOCKET WELDED.
- 6. PROVIDE NY STATE COMPLIANT CONTAINMENT VESSEL AS PART OF DAY TANK PACKAGE FROM MANUFACTURER. DAY TANK MANUFACTURER BASED ON HIGHLAND 300-GALLON DIKE TANK.



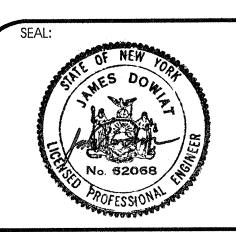


CONNECTION DIAGRAM



Arthur R. Breuer, PE, PLLC 24 North Greeley Avenue, Chappaqua, NY 10514 (Phone) 914-238-5433 (Fax) 914-238-4472

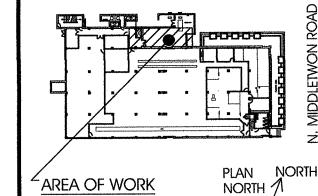
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AREA OF WORK FIRST FLOOR

DATE	SUBMISSION/REV.
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6/18/2020	ISSUED FOR BID
8/7/2020	ISSUED FOR FILING

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PEARL RIVER GENERATOR SPACE **PREPARATION**

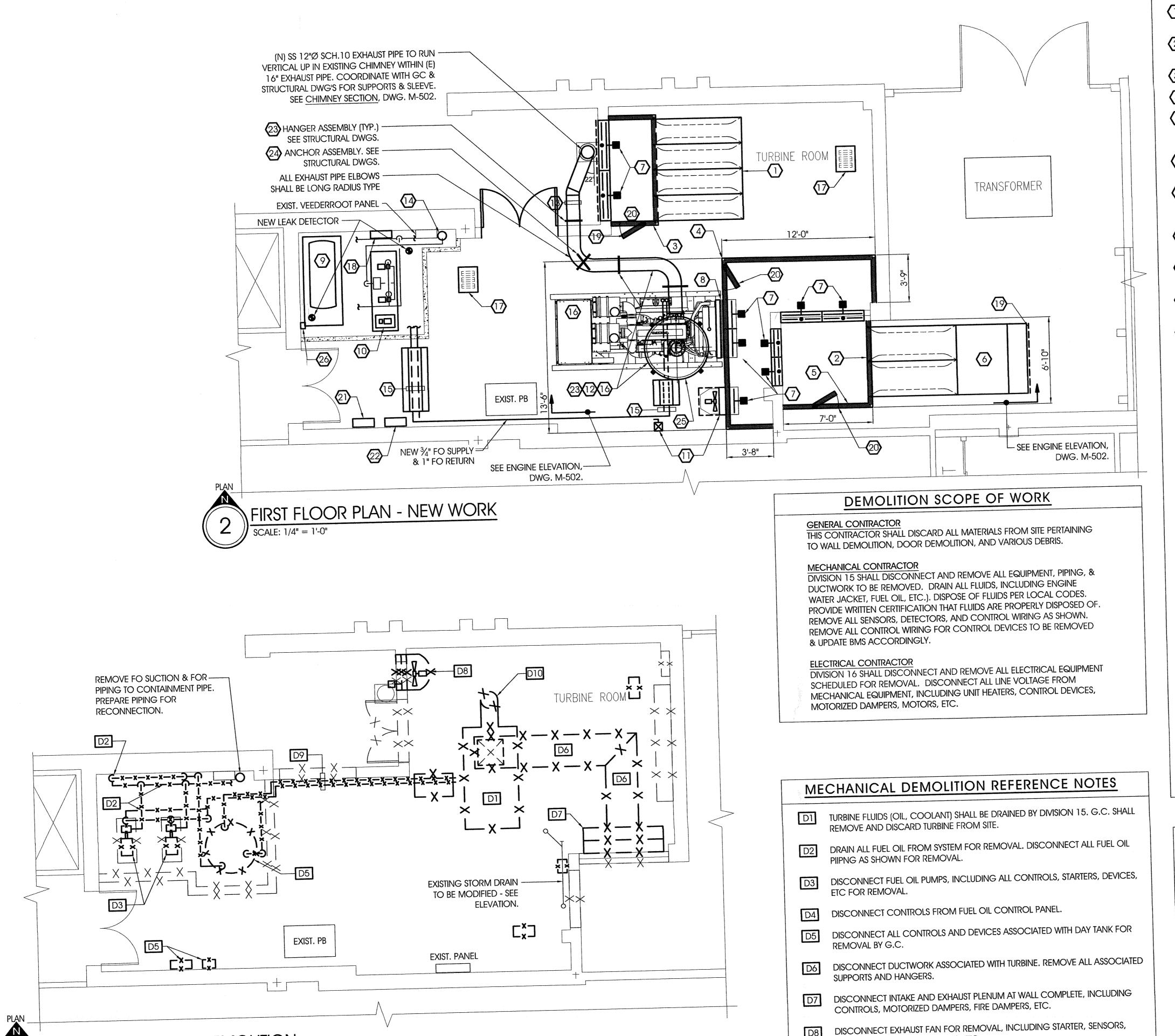
179 N MIDDLETOWN ROAD PEARL RIVER, NY

DATE:	06/18/2020
SCALE:	AS NOTE
DRAWN BY:	AH/V
CHECKED BY:	JBD/Al
PROJECT NO.:	464
TITLE:	
	NATOLIANIO AL.

MECHANICAL: FUEL OIL RISER DIAGRAMS

DRAWING NO.:

M-002.00



FIRST FLOOR PLAN - DEMOLITION

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

MECHANICAL REFERENCE NOTES

- NEW INTAKE SOUND TRAPS TOTAL SIZE: 8'-0" W x 7'-0" H x 7'-0" L. BASE BID ON IAC ACOUSTICS #7LFS.
- NEW EXHAUST SOUND TRAPS. TOTAL SIZE: 5'-6" W x 8'-0" H x 7'-0" L. BASE BID ON IAC
- NEW DW-3 INTAKE PLENUM. TOTAL SIZE: 3'-8" D x 8'-8" W x 7'-4" H.
- NEW DW-3 EXHAUST PLENUM (INTERIOR).
- NEW DW-3 EXHAUST PLENUM (EXTERIOR); EXTERIOR AND INTERIOR PLENUM WALLS AND ROOF SHALL BE STAINLESS STEEL, SEE DETAIL AND SPECIFICATIONS. PROVIDE CEILING ON PLENUM (9'-0" H)
- NEW 18 GA STAINLESS STEEL EXHAUST HOOD FULL SIZE OF SOUND TRAPS. SEE ELEVATION FOR ADDITIONAL DETAIL.
- NEW MOTORIZED DAMPERS (MD) AND FIRE DAMPERS (FD). COORDINATE SIZE IN FIELD WITH G.C. INSTALL PER MFR. REQUIREMENTS. COORDINATE WITH ELECTRICAL CONTRACTOR FOR ACTUATOR QTY.
- FLEX CONNECTOR COORDINATE RADIATOR OUTLET SIZE WITH GENERATOR MFR. PROVIDE MD TO MATCH OUTLET SIZE.
- NEW 300 GALLON FUEL OIL DAY TANK AND CONTAINMENT BASIN. SEE DIAGRAMS FOR ADDITIONAL INFORMATION.
- NEW FUEL OIL PUMPSET <u>FOP-1</u>, <u>FOP-2</u> & <u>FOP-3</u>, INCLUDING DRIP PAN, ETC. SEE FUEL OIL DIAGRAM.
- NEW EXHAUST FAN <u>EF-GEN</u>. THIS CONTRACTOR TO SUPPLY 1HP VFD AND TURN OVER TO DIV. 16 FOR INSTALLATION. SEE SCHEDULE AND DETAIL.

 NEW 12" Ø SCHEDULE 40 INTERIOR ENGINE EXHAUST PIPING. PROVIDE ROLLER
- HANGER AND PIPE GUIDE AS SHOWN ON FLOOR PLAN.

 EXTERIOR EXHAUST PIPE SHALL BE 12" Ø SCHEDULE 10s STAINLESS STEEL. ROUTE WITHIN EXISTING 16" Ø FLUE RISER.
- EXISTING FUEL OIL CONTAINMENT PIPING W/ EXISTING FUEL OIL SUPPLY AND RETURN PIPING. CONNECT NEW PIPING AS SHOWN ON FUEL OIL RISER DIAGRAM.
- NEW 1" FO SUCTION AND $1\frac{1}{4}$ " FO RETURN PIPING TO GENERATOR. ALL PIPING FROM DAY TANK SHALL BE BELOW HEIGHT OF GENERATOR INJECTORS. VERIFY WITH APPROVED GEN. SHOP DRAWINGS. PROVIDE DIAMOND WALK-OVER PLATE.
- PROVIDE TYPE E-2 REMOVABLE EXHAUST INSULATION BLANKET AROUND EXPANSION JOINTS, AND SILENCER. SEE SPECIFICATIONS FOR ADD'L INFORMATION.
- NEW 10 KW ELECTRIC UNIT HEATER (W/ THERMOSTAT). SEE DETAIL.
- NEW FO PUMP CONTROL PANEL SUPPLIED BY VERIZON AND INSTALLED BY CONTRACTOR.
- PROVIDE STAINLESS STEEL WIRE MESH SCREEN.
- PROVIDE 24x60 PLENUM ACCESS DOOR
- NEW LEAK DETECTION PANEL. SEE DIAGRAM.
- NEW DAMPER CONTROL PANEL.
- PROVIDE ROLLER SUPPORT(S).
- PROVIDE PIPE ANCHOR.

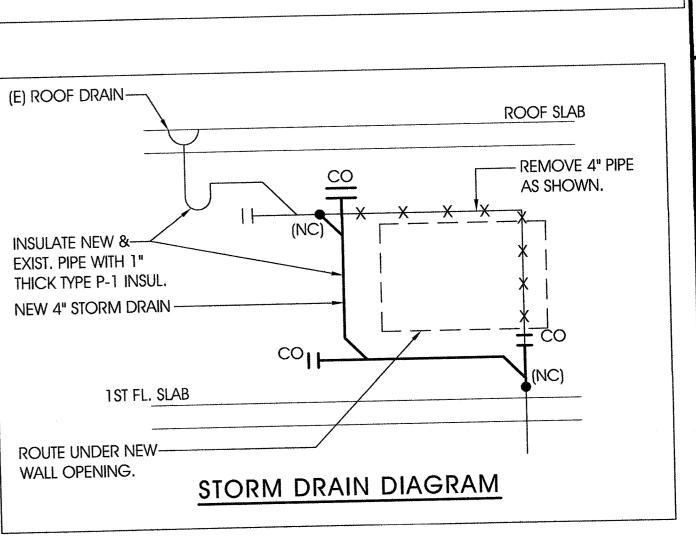
DEVICES, MOTORIZED DAMPERS, ETC.

DISCONNECT FUEL OIL SUPPLY AND RETURN PIPING TO/FROM TURBINE.

A WELDED CAP ON LIMIT OF PIPE DEMOLITION AT RISER.

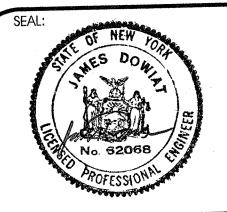
DISCONNECT FLUE EXHAUST PIPING FROM TURBINE TO RISER AT CEILING SLAB. REMOVAL SHALL INCLUDE ALL INSULATION, JACKETING, SUPPORTS, ETC. PROVIDE

- NEW 52" Ø EXTREME GRADE SILENCER PURCHASED BY VERIZON & INSTALLED BY THIS CONTRACTOR. HANG WITH 5/8" THREADED ROD & 3" DEFLECTION SPRING ISOLATOR. COORDINATE WITH STRUCTURAL DRAWINGS.
- REMOTE DAY TANK LEVEL PANEL.





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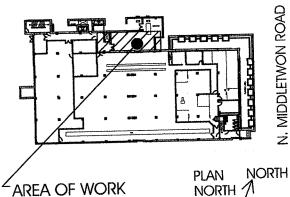


HILLMAN & MILEY

235 MAMARONECK AVE 302 WHITE PLAINS, NY 10605 PHONE 914.428.0909 INFO@HILLMANMILEY.COM

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CODES.

EY PLAN:



FIRST FLOOR

NO. DATE SUBMISSION/REV.
6/18/2020 ISSUED FOR BID
8/7/2020 ISSUED FOR FILING

verizon

PEARL RIVER GENERATOR SPACE PREPARATION

179 N MIDDLETOWN ROAD PEARL RIVER, NY

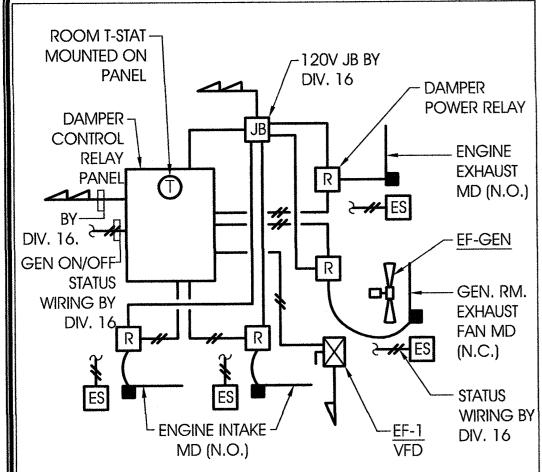
DATE: 06/18/2020
SCALE: AS NOTED
DRAWN BY: AH/VP
CHECKED BY: JBD/AH
PROJECT NO.: 4640

MECHANICAL: FIRST FLOOR PART PLANS -DEMOLITION & NEW WORK

DRAWING NO.:

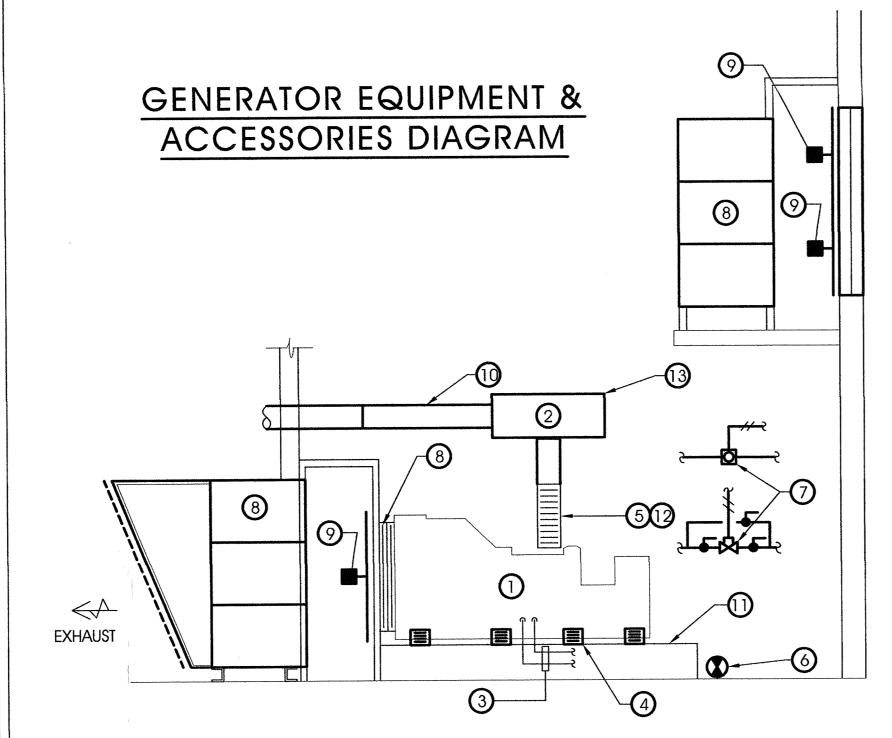
M-101.00

3 OF 5M

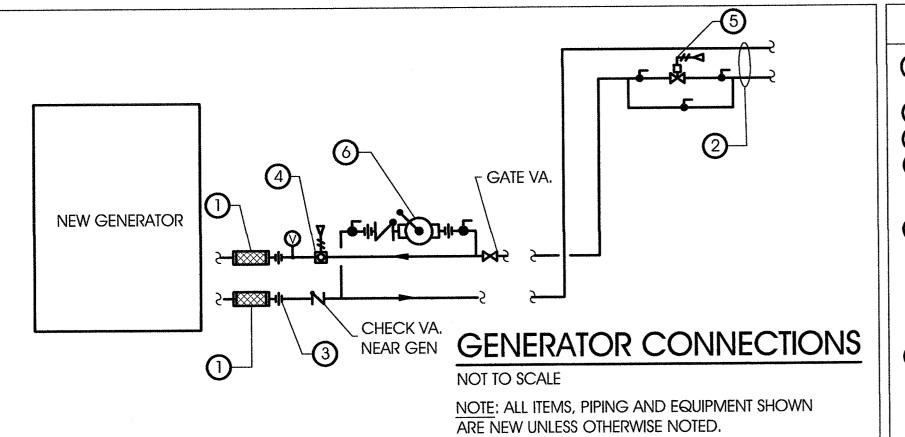


ENGINE & EXHAUST FAN INTAKE/EXHAUST DAMPERS CONTROL DIAGRAM

- ALL ITEMS SHOWN ARE NEW UNLESS NOTED AS
- ALL EQUIPMENT, CONTROL DEVICES AND WIRING SHOWN ARE BY DIV 15 UNLESS NOTED BY DIV. 16.
- IMPORTANT: COORDINATE DAMPER ACTUATOR QTY
- SEQUENCE OF OPERATIONS (BY DIV. 15):
- ROOM THERMOSTAT (USE ADJ.) SHALL CAUSE EF-1 TO START WHEN ROOM IS 80 °F OR ABOVE, ON CALL FOR FAN START, RESPECTIVE MD AND ENGINE INTAKE AND EXHAUST DAMPERS SHALL OPEN, WHEN DAMPERS ARE PROVED OPEN, EXHAUST FAN SHALL START.
- ON CALL FOR ENGINE START, EF-1 SHALL BE SHUT DOWN AND EXHAUST FAN MD SHALL CLOSE. ENGINE INTAKE AND EXHAUST DAMPERS SHALL FULLY OPEN.

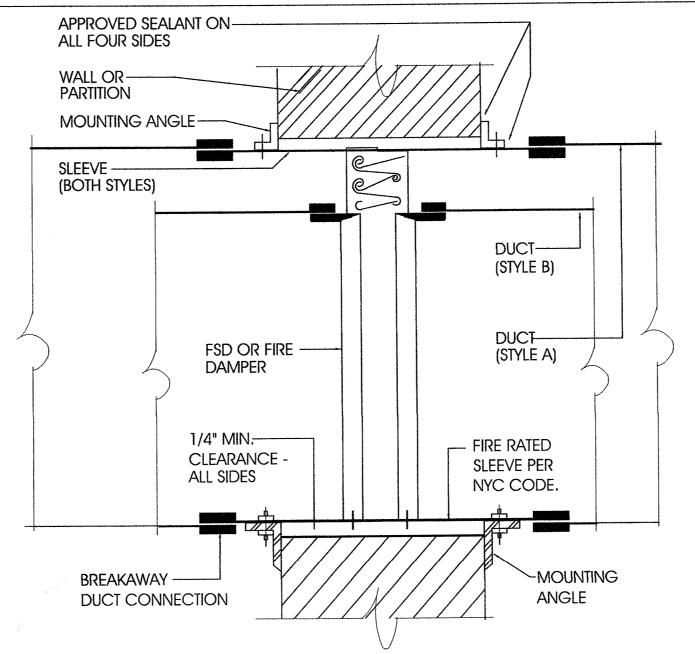


#	ITEMS	SCOPE	/5	ald of	M./ S	4. Q	COMMENTS
		SUPPLIED BY	•				
1	GENERATOR SET	RIGGED BY				•	
		INSTALLED BY			<u> </u>		
	EXTREME GRADE SILENCER	SUPPLIED BY	•			<u> </u>	
2	EXTREIVIE GRADE SILENCLR	INSTALLED BY				ļ	
0	FUEL OIL FLEX. HOSE	SUPPLIED BY	•		<u> </u>	ļ	
3	CONNECTIONS	INSTALLED BY			•	<u> </u>	
	GENERATOR VIB. ISOLATORS	SUPPLIED BY	•		<u> </u>	ļ	
4	(SPACE-SAVING TYPE)	INSTALLED BY					
		SUPPLIED BY	•			<u> </u>	EXPANSION JOINT TO BE
(5)	EXPANSION JOINT & WYE	INSTALLED BY				<u> </u>	ALIGNED WITH ENGINE &
	CONNECTION						SILENCER COORD. SUPPORTS WITH ARCHITECTURAL DWGS.
		SUPPLIED BY			•		
	LEAN DETECTION	INSTALLED BY			•		
(0)	6 LEAK DETECTION	CONTROLS & PROGRAMMING			•		
		LINE VOLTAGE WIRING					
	FUEL OIL SUPPLY FIRE	SUPPLIED BY			•		
(A)	SAFETY VALVE &	INSTALLED BY			•		1
0	MAGNATROL SOLENOID	CONTROLS & PROGRAMMING			•		1
	VALVE	LINE VOLTAGE WIRING				•	
0	DW-3 (ACOUSTIC) PLENUM,	SUPPLIED BY			•		INCLUDING SUPPORTS
8	& HOOD SOUND TRAPS, FLEX CONNECTION	INSTALLED BY					WHERE INDICATED
-	3	SUPPLIED BY			•		
		INSTALLED BY	1		•		INCLUDING END
9	MOTORIZED DAMPERS (& FIRE DAMPERS)	CONTROLS & PROGRAMMING			•		SWITCHES. ALL MD TO BE NORMALLY OPEN
		LINE VOLTAGE WIRING				•	DE NORWALLI OI LIN
	FLUE EXHAUST PIPE	SUPPLIED BY			•		
100	(INCL. INSULATION)	INSTALLED BY			•		
	OTDI IOTUDAL DAD	SUPPLIED BY		•			
10	STRUCTURAL PAD	INSTALLED BY		•			
	REMOVABLE INSULATION	SUPPLIED BY			•		
12	BLANKET	INSTALLED BY			•		



FUEL OIL REFERENCE NOTES

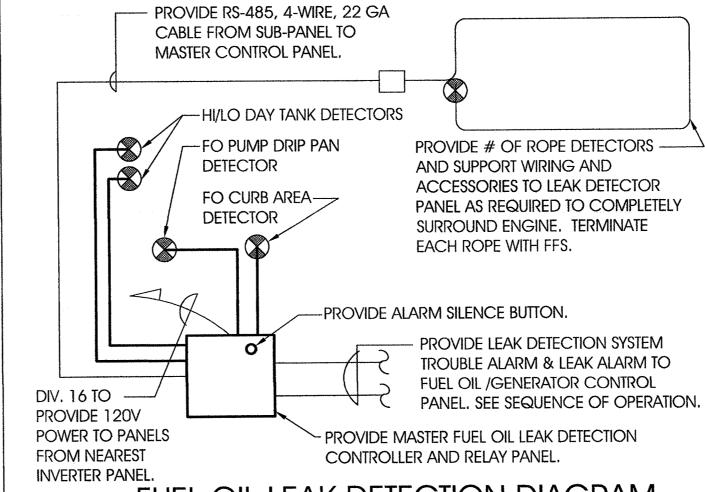
- 1 FLEX CONNECTION SUPPLIED BY VERIZON & INSTALLED BY DIV. 15.
- 2 PIPING TO FUEL OIL DAY TANK.
- UNIONS
- FUSIBLE LINK FIRE SAFETY FUEL SHUT-OFF VALVE WITH POSITION SWITCH. BASE ON PREFERRED UTILITIES MODEL 110. LOCATE NEAR ENGINE.
- NEW MAGNATROL SOLENOID VALVE WITH POSITION SWITCH. LOCATE AT HIGH POINT OF PIPING. VALVE SHALL BE TYPE 'A' FULL PORT, GENERAL PURPOSE NEMA 12 VALVE. VALVE SHALL BE NORMALLY CLOSED, WITH SCREWED ENDS, 24VDC WITH VITONDISK & RATED FOR FUEL OIL. LOCATE NEAR DAY TANK.
- 6 PROVIDE FILLRITE HAND PUMP (MODEL FR152, OR EQUAL) TO PRIME FOS PIPING. PROVIDE ASSOCIATED SHUT-OFF VALVES, CHECK VALVES, UNIONS, AND MANUAL BYPASS VALVE.



FSD & FIRE DAMPER DETAIL

N.T.S.

- 1. ANGLES, DUCT CONNECTIONS, SLEEVES, AND ENTIRE INSTALLATION TO BE PER MANUFACTURER'S LISTED INSTALLATION DETAILS.
- 2. DO NOT APPLY SEALANT ON BREAKAWAY CONNECTIONS.
- 3. FSD'S AND FD'S SHALL BE UL RATED AND NYC APPROVED.



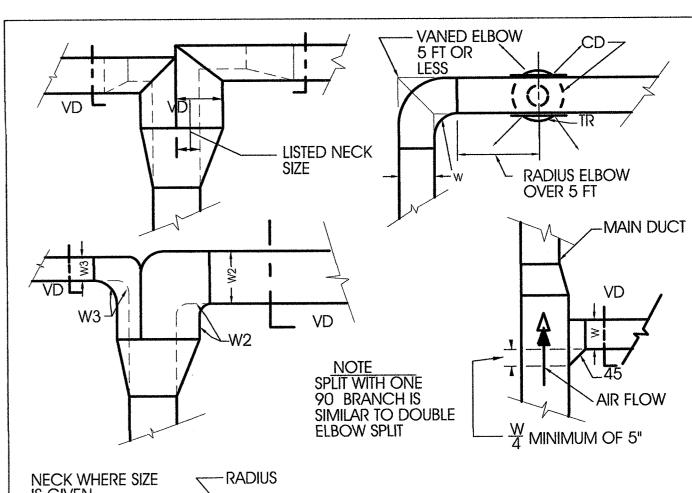
FUEL OIL LEAK DETECTION DIAGRAM

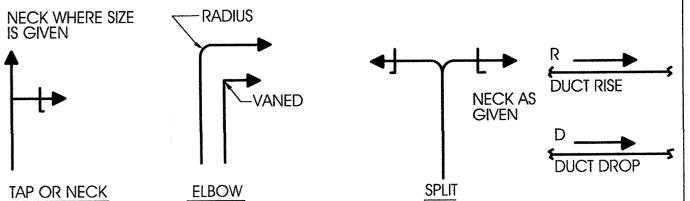
FUEL OIL LEAK DETECTION DIAGRAM NOTES:

- 1. ALL EQUIPMENT AND WIRING SHALL BE BY DIVISION 15 UNLESS NOTED OTHERWISE. 2. SYSTEM AND DETECTORS SHALL BE TRACETEC. PROVIDE ALL PANELS, DETECTORS, EQUIPMENT, WIRING, ACCESSORIES AND PROGRAMMING FOR A COMPLETE SYSTEM
- AND MEET THE SEQUENCE OF OPERATION. 3. SEE CONTROL/STATUS WIRING DIAGRAM FOR ADDITIONAL WIRING REQUIREMENTS.
- 4. LEAK DETECTION SYSTEM SHALL BE BY TRACETEC. REP: GA FLEET.
- 5. **SEQUENCE OF OPERATION:**
- THE INDIVIDUAL LEAK DETECTORS SHALL CAUSE THE FOLLOWING TO OCCUR:

		DRY CONTACTS TO FUEL
DETECTOR	LEAK PANEL	OIL/GENERATOR ALARM PANEL.
GEN RM. FO SPOT DET.	ALARM ONLY	ALARM ONLY
G-1 FO ROPE DETECTOR	ALARM ONLY	ALARM ONLY
HIGH DAY TANK CONTAINMENT DETECTOR	ALARM ONLY	PUMP SHUTDOWN
LOW DAY TANK CONTAINMENT DETECTOR	ALARM ONLY	ALARM ONLY
FUEL PUMP DRIP PAN	ALARM ONLY	ALARM ONLY
FUEL OIL CURB AREA	ALARM ONLY	ALARM ONLY

ACTIVATION OF ANY LEAK DETECTOR SHALL CAUSE VISUAL AND AUDIBLE ALARM AT LEAK DETECTION PANEL & CLOSE A SET OF DRY CONTACTS (ONE FOR EACH DETECTOR) CONNECTED TO THE APPROPRIATE TERMINALS IN THE FUEL OIL/GENERATOR CONTROL PANEL WITH #14 AWG STRANDED WIRE.DIV 16 SHALL MAKE CONNECTIONS TO GENERATOR ALARM PANEL.

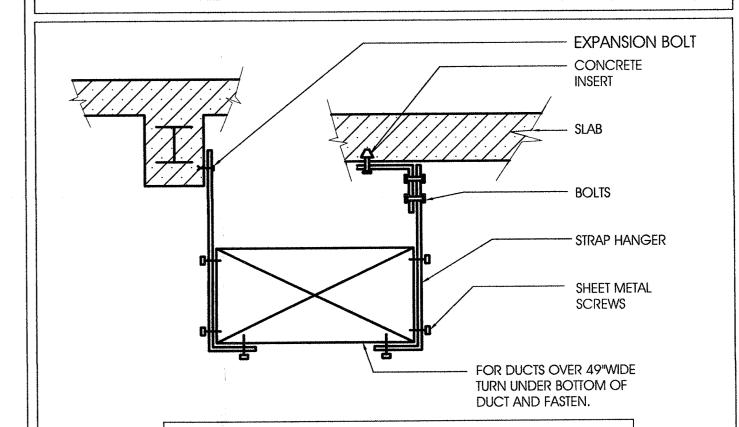




SINGLE LINE REPRESENTATIONS - REFER TO DOUBLE LINE DETAILS ABOVE

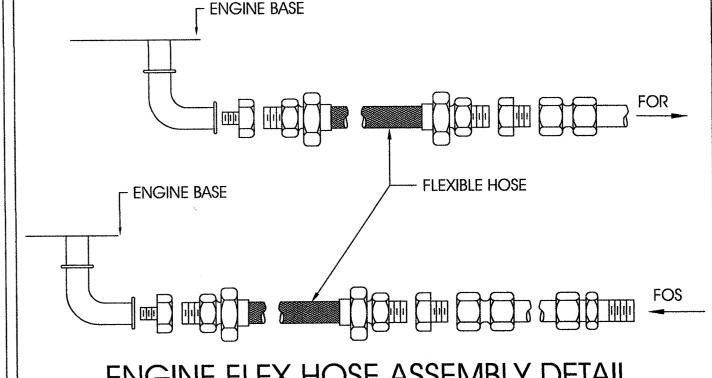
- 1. USE RADIUS OR SQUARE VANED BENDS FOR BOTH ELBOWS AND SPLITS AS DETERMINED BY SPACE LIMITATIONS AND DISTANCE FROM AIR OUTLETS.
- 2. ALL VANED ELBOWS SHALL BE SQUARE (CONSTANT WIDTH).
- 3. WHERE DUCTS SPLIT, SOLID LINE IS PREFERREDARRANGEMENT UNLESS PRECLUDED BY SPACE CONDITIONS OR INDICATED OTHERWISE ON DRAWINGS. USE ELBOWED SPLIT FOR BRANCH CONNECTION ONLY WHERE NECK SIZE IS GIVEN.

DUCTWORK BRANCH TAKEOFF CONNECTIONS



H/	EDULE	
DUCT SIZE	HANGER SIZE	MAXIMUM SPACING
UP TO 2 S.F.	1"X 1/16"	8'-0"
2 S.F. TO 4 S.F.	1" X 1/8"	8'-0"
4 S.F. TO 10 S.F.	1" X 1/8"	6'-0"
OVER 10 S.F.	1" X 1/8"	4'-0"

STRAP HANGER DETAIL

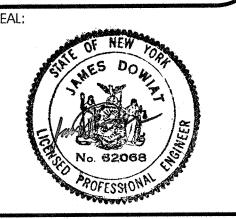


ENGINE FLEX HOSE ASSEMBLY DETAIL

- 1. FLEXIBLE HOSE SUPPLIED BY VERIZON & INSTALLED BY CONTRACTOR.
- 2. CONTRACTOR SHALL PROVIDE ALL OTHER PIPE, VALVES AND FITTINGS FROM MAIN FUEL TANK FOS & FOR TO ENGINE AND CONNECT TO ENGINE.
- 3. PROVIDE PIPE SUPPORTS ON FLOOR FOR FO PIPING 4'-0" ON CENTER.

Professional Engineers

Arthur R. Breuer, PE, PLLC 24 North Greeley Avenue, Chappaqua, NY 10514 (Phone) 914-238-5433 (Fax) 914-238-4472 (Email) info@arbpe.com

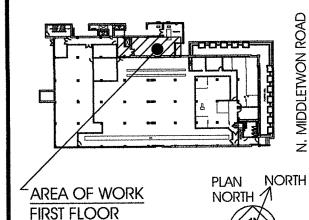


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KEY PLAN:



NO. DATE SUBMISSION/RE 6/18/2020 ISSUED FOR BID 8/7/2020 ISSUED FOR FILING

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PEARL RIVER **GENERATOR SPACE PREPARATION**

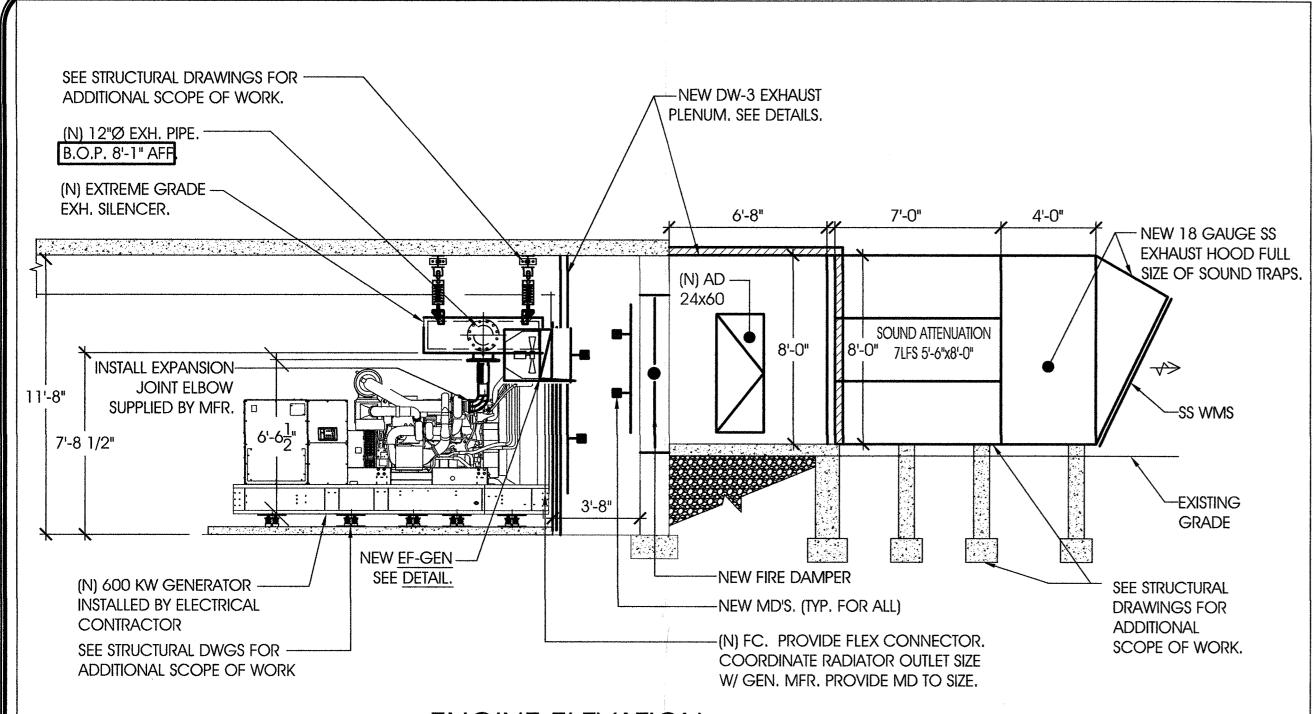
179 N MIDDLETOWN ROAD PEARL RIVER, NY

	DATE:	06/18/20
	SCALE:	AS NO
	DRAWN BY:	AH
-	CHECKED BY:	JBD/
	PROJECT NO.:	46
	TITLE:	

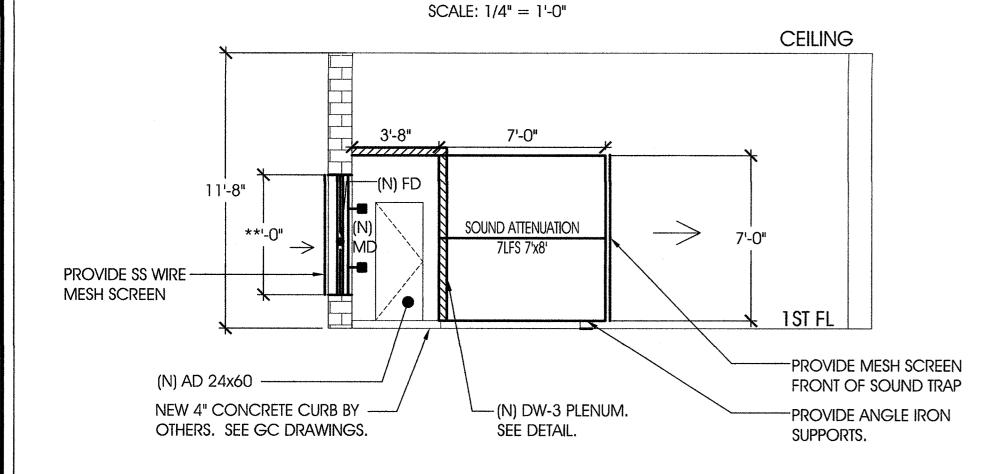
MECHANICAL DETAILS & DIAGRAMS

DRAWING NO.:

M-501.00

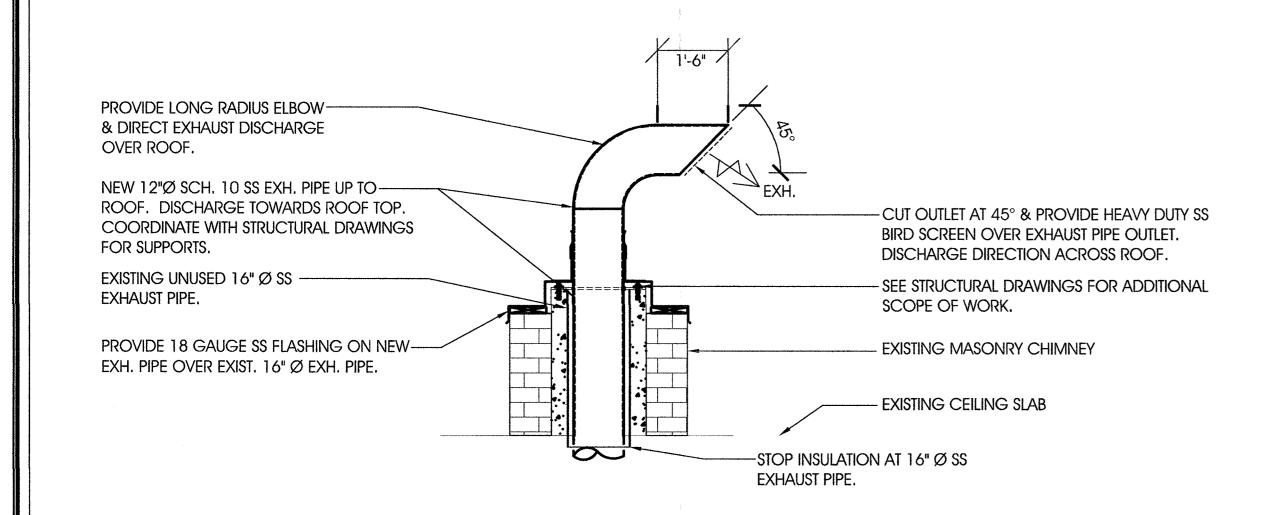


ENGINE ELEVATION



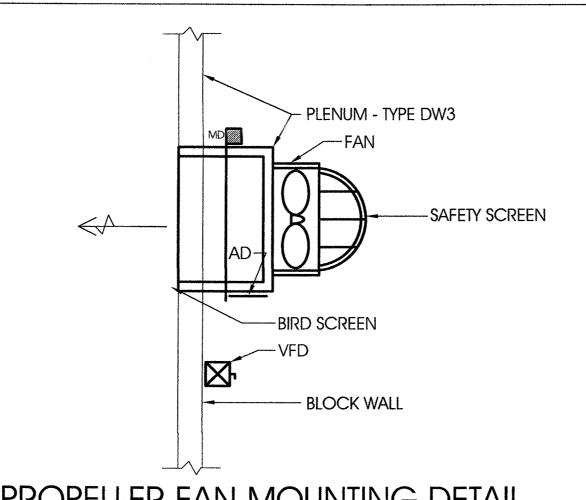
ENGINE ELEVATION

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



EXISTING CHIMNEY SECTION

SCALE: 1/2" = 1'-0"

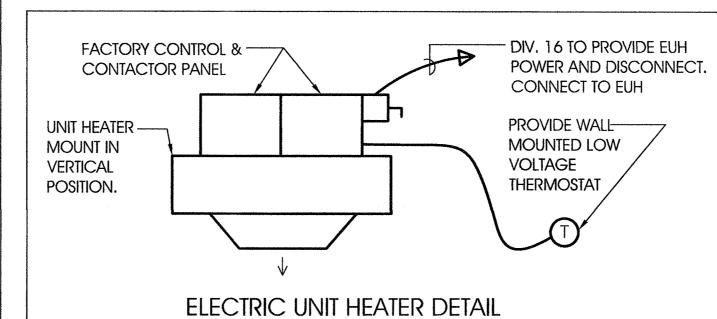


PROPELLER FAN MOUNTING DETAIL

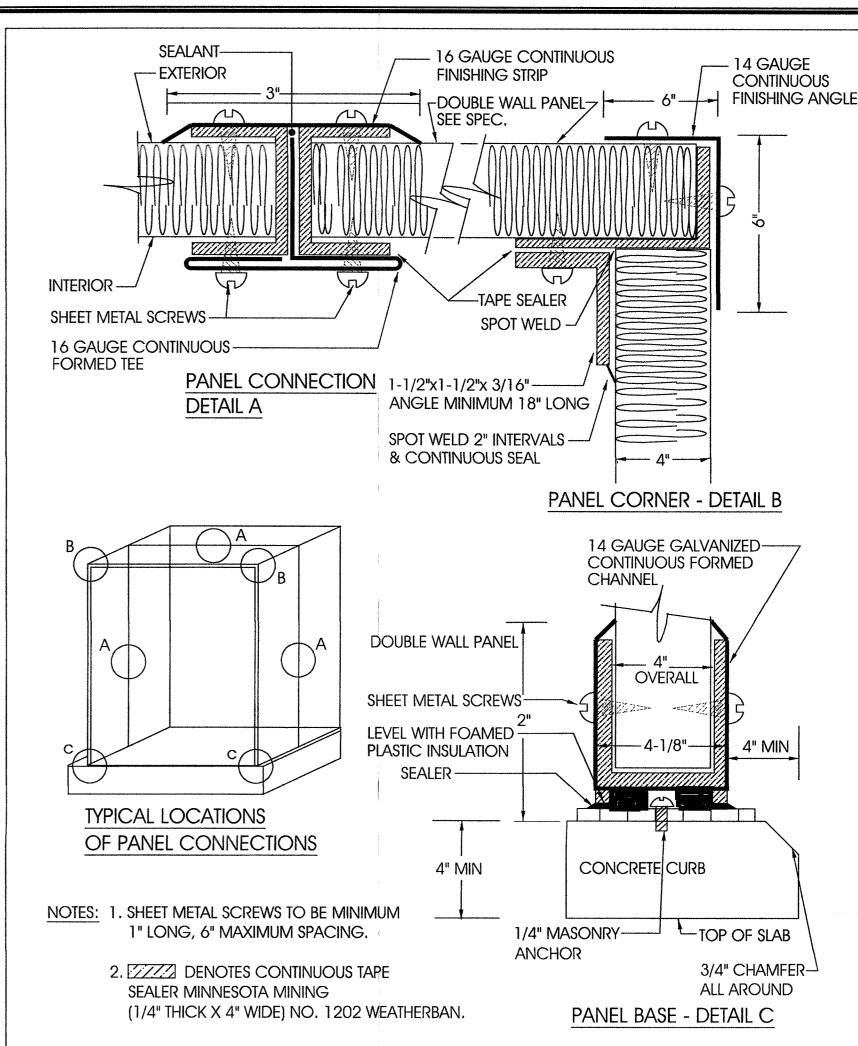
NO SCALE

NOTES:

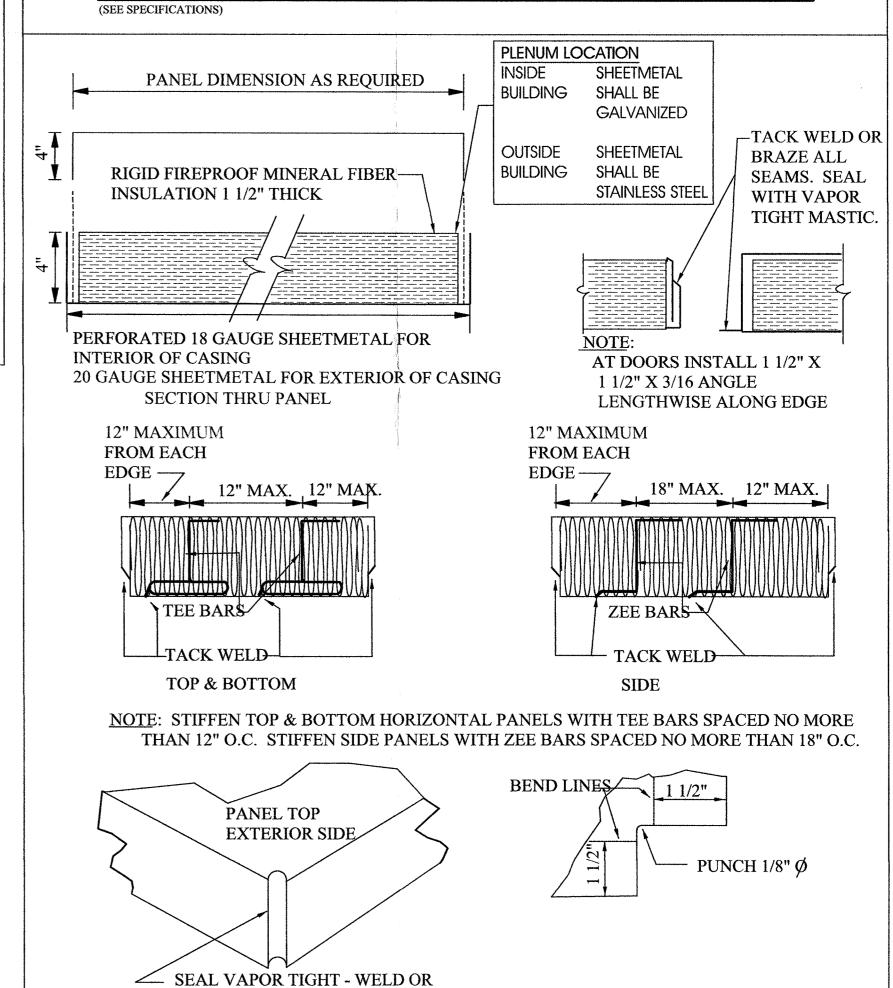
- 1. PROVIDE TYPE DW3 PLENUM TO MOUNT TO NEW FAN. 2. MOUNT MD MOTOR ON SIDE OF PLENUM, PROVIDE HINGED & SEALED 24x18 ACCESS DOOR IN BOTTOM.
- 3. PROVIDE VFD STARTER FOR FAN. MOUNT ON PLENUM.CONTROL FAN ON/OFF FROM BMS ROOM TEMPERATURE SENSOR.
- 4. PROVIDE ALL MOUNTING HARDWARE FOR FAN AND ALL REQUIRED CONTROLS, WIRING AND ACCESSORIES TO ACHIEVE THE SEQUENCE OF OPERATION. SEE CONTROL DIAGRAM.
- 5. ALL ITEMS AND EQUIPMENT SHOWN ARE NEW UNLESS NOTED AS EXISTING.



- 1. GENERATOR ROOM: PROVIDE VERTICAL DISCHARGE UNIT HEATER BRASCH MODEL BTUH-10-2083; 10KW, 208V, 3Ø.
- 2. PROVIDE REQUIRED FACTORY HANGERS AND NECESSARY SUPPLEMENTAL STEEL TO HANG EUH.
- PROVIDE LOW VOLTAGE THERMOSTAT WITH ALL REQUIRED WIRING, CONDUIT,
- TRANSFORMERS, RELAYS AND ACCESSORIES FOR COMPLETE SYSTEM. 4. MOUNT UNIT HEATER AT FACTORY RECOMMENDED HEIGHT ABOVE FLOOR.

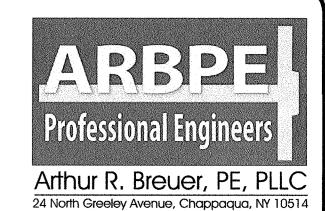


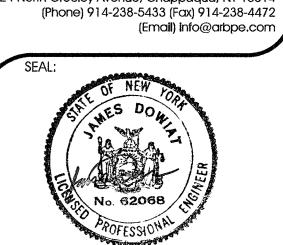
DOUBLE WALL CASING - PANEL CONNECTION DETAILS - TYPE DW-3



TYPE DW3 DOUBLE WALL CASING-PANEL CONSTRUCTION DETAILS

BRAZE CONTINUOUSLY



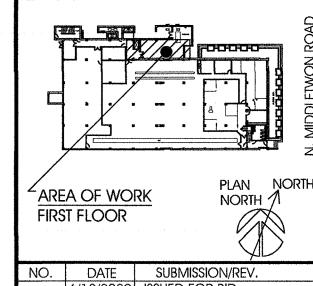


HILLMAN & MILEY



DISCLAIMER NOTE: THIS PLAN IS APPROVED ONLY FOR THE WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS ARE NOT TO BE RELIED UPON, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE

KEY PLAN:



DATE SUBMISSION/REV. 6/18/2020 ISSUED FOR BID 8/7/2020 ISSUED FOR FILING

verizon

PEARL RIVER GENERATOR SPACE PREPARATION

179 N MIDDLETOWN ROAD PEARL RIVER, NY

06/18/2020 AS NOTE SCALE: DRAWN BY: JBD/AH CHECKED BY: PROJECT NO .:

> MECHANICAL: **ELEVATIONS & DETAILS**

DRAWING NO.:

M-502.00