

EX#119
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PH

HARNED PRESENTATION

10/24/24

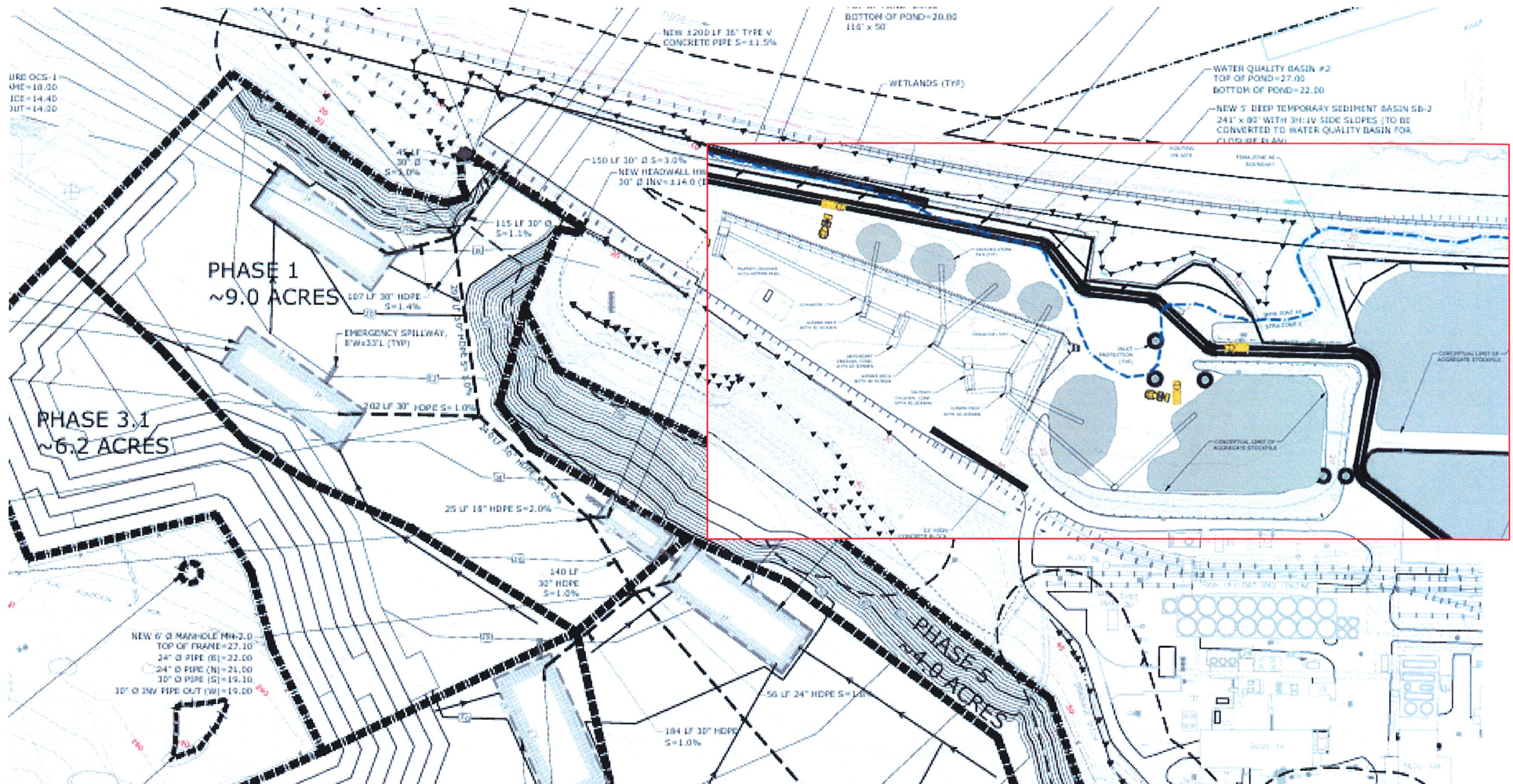
EXCAVATION



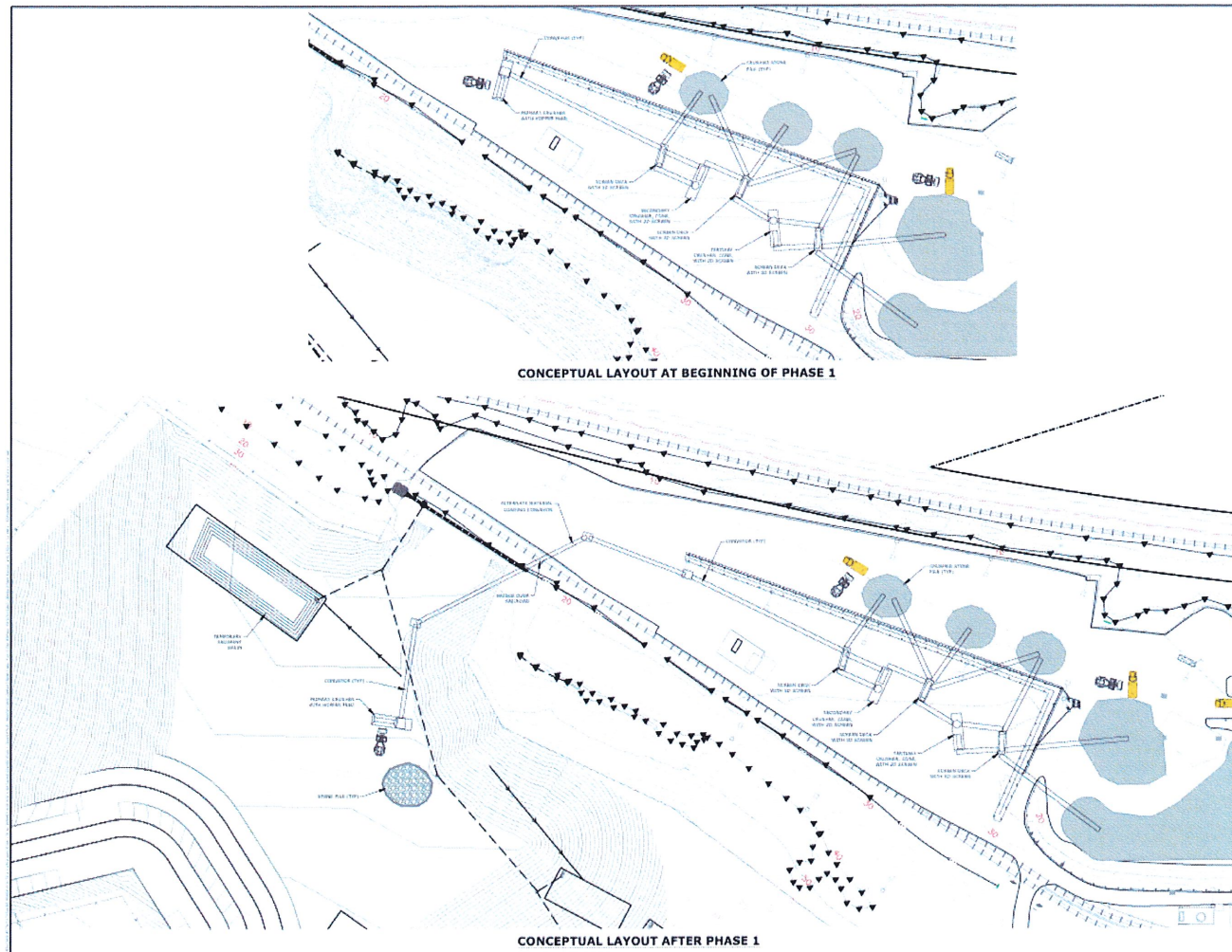
ROCK QUARRY



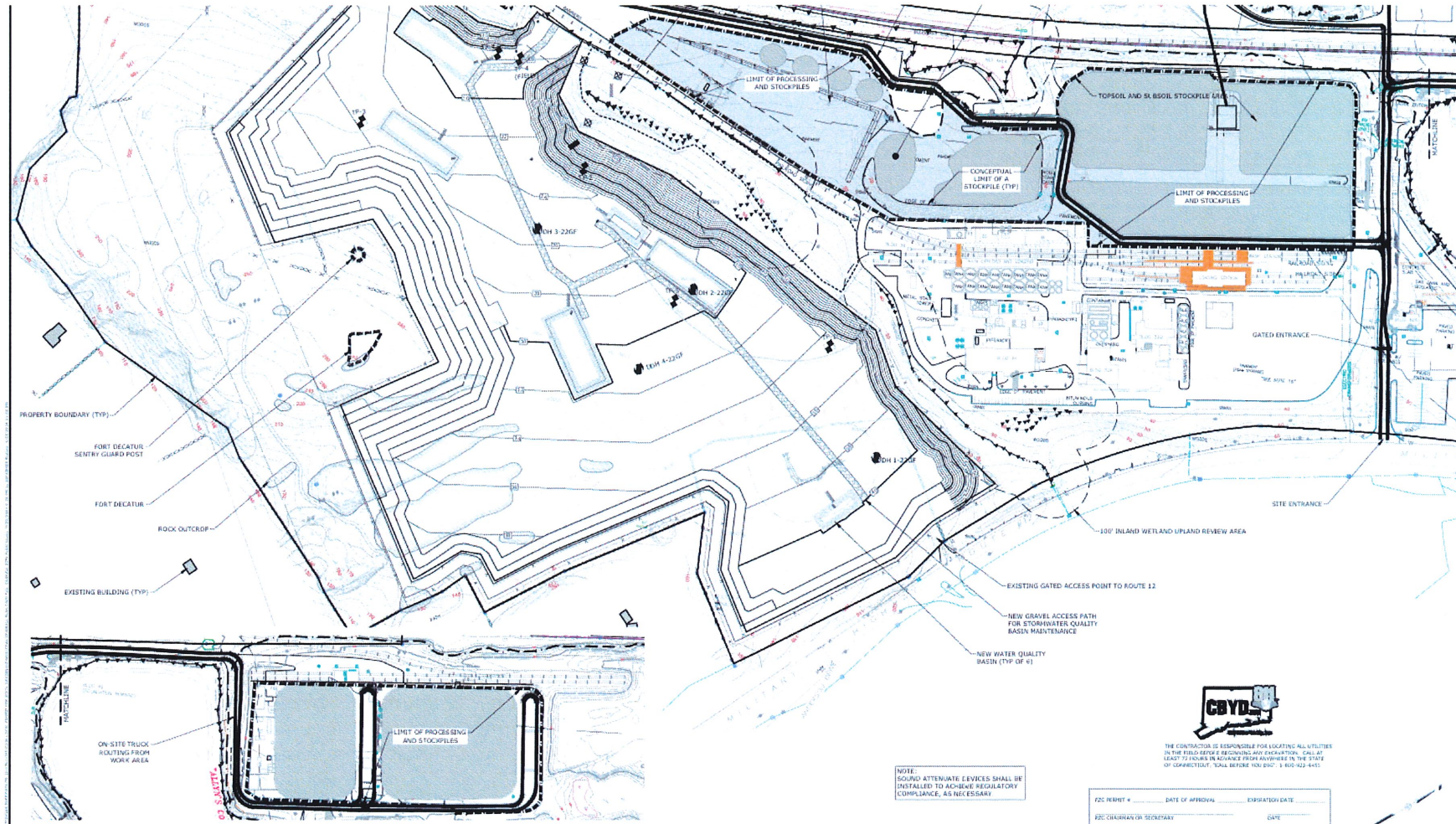
SECTION FROM PAGE C-12 OVERLAID ONTO PAGE C-6



PAGE C-12 FROM ORIGINAL SITE PLANS



PAGE C-6 FROM 9/25 SITE PLANS



EXCAVATION, MAJOR

- **8.16.D.2** The purpose of these regulations is to ensure the following: **the work will not be a source of dust, pollution, and/or siltation.**

DEFINITIONS:

- **"Pollution" = the contamination of air, water, or earth by harmful substances.**
- **"Contamination" = making something impure from mixture or contact with a foreign substance.**

FIGURE 1 FROM VERDANTAS AIR EMISSIONS MODEL

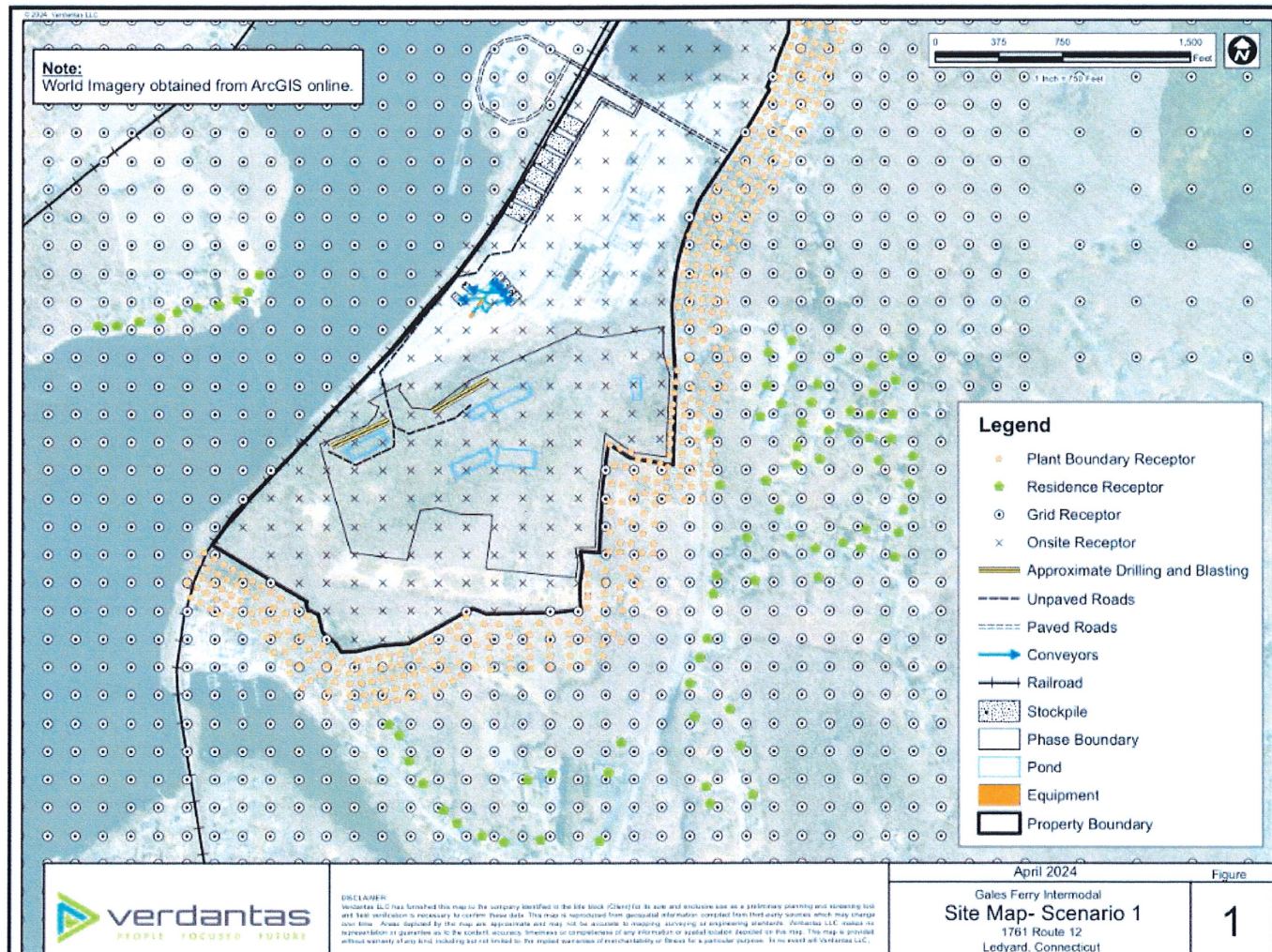
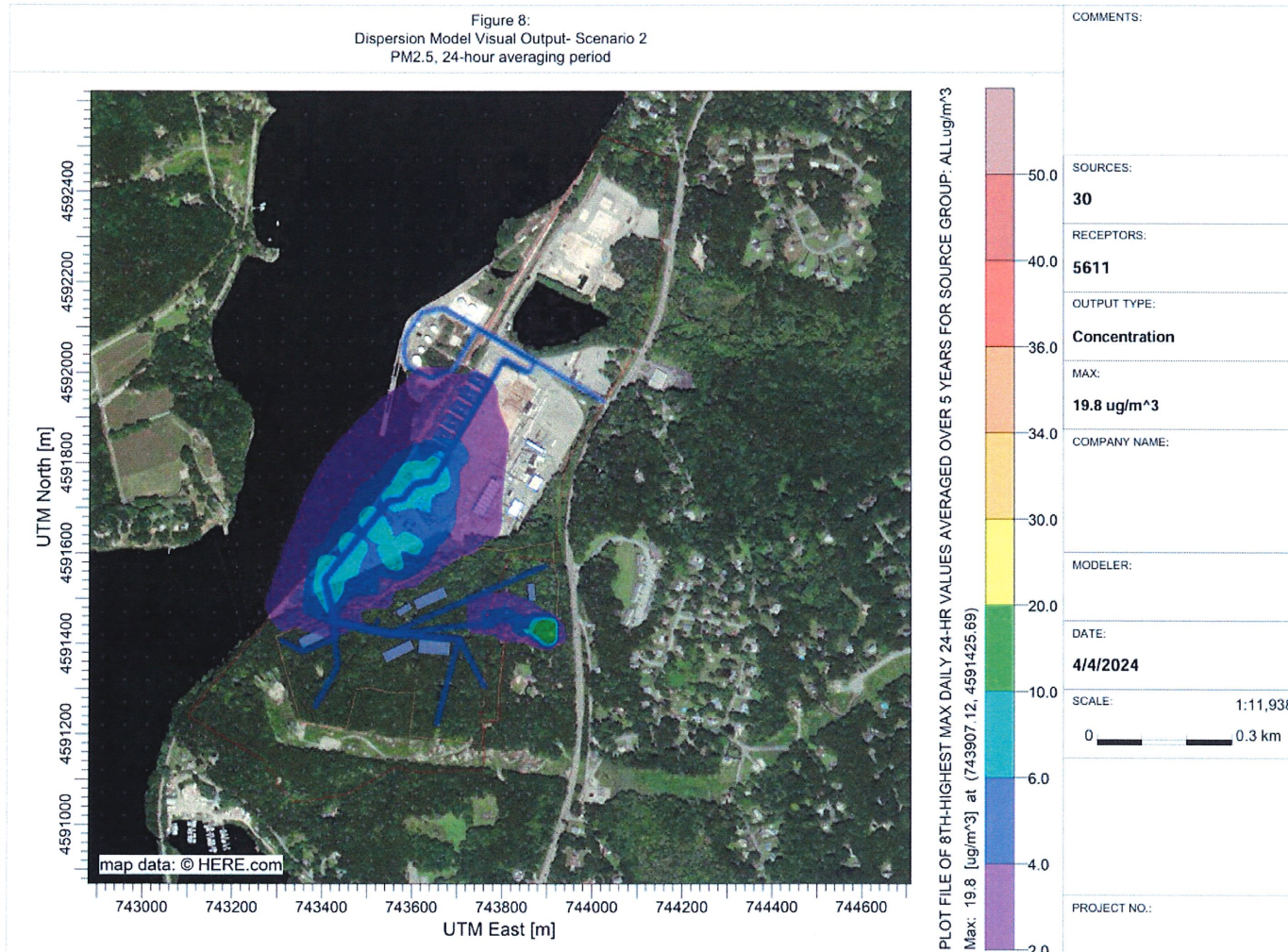


FIGURE 8 FROM VERDANTAS AIR EMISSIONS MODEL



TECHNICAL DATA MC 140 PRO – US SPEC

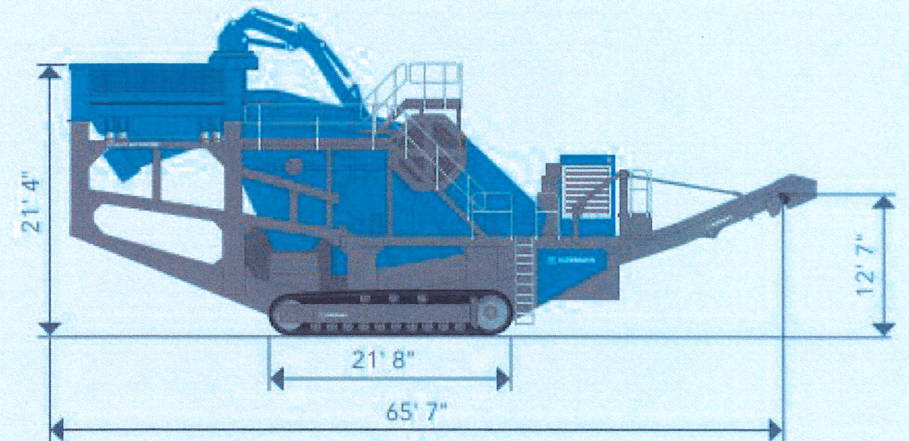
STANDARD FEATURES

Feed hopper / Frequency-controlled vibrating feeder / fill level monitor at crusher inlet / Radio remote control / PLC control with LCD display / Control cabinet, with double dust encapsulation, lockable, suspended and with over pressure system / Lighting

OPTIONS

Side discharge conveyor / Electromagnetic separator, permanent magnet, magnet preparation / External power supply / Extended crusher discharge conveyor / Rock chisel / Preparation for installation of belt scale / Belt covers (aluminium, steel) / Spray system for dust reduction

OPERATING POSITION



SITE DEVELOPMENT STANDARDS - SUSTAINABLE DEVELOPMENT

- Performance Standards

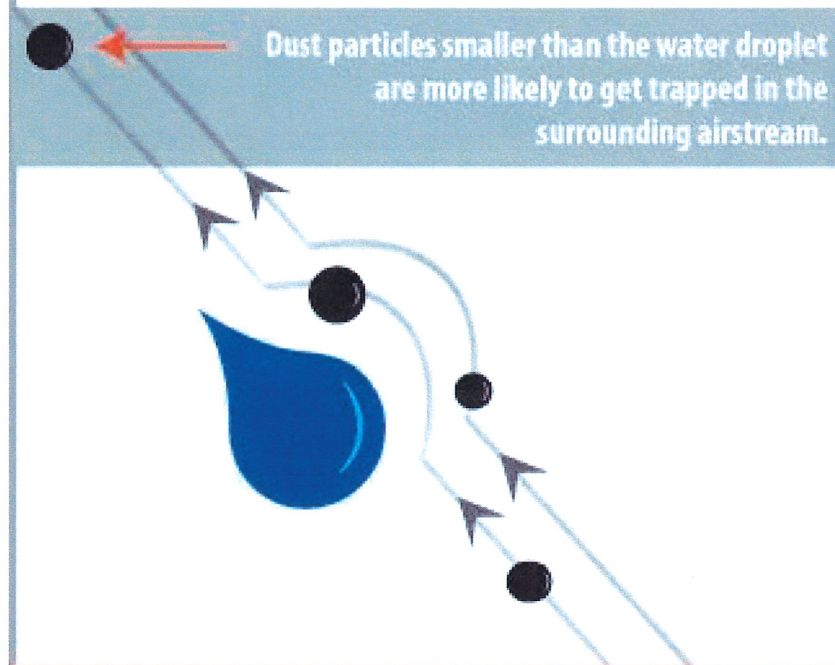
- **9.2.C.1**

No dust, dirt, fly ash or smoke shall be emitted into the air so as to endanger the public health, safety or general welfare, or to decrease the value or enjoyment of other property or to constitute an objectionable source of air pollution.

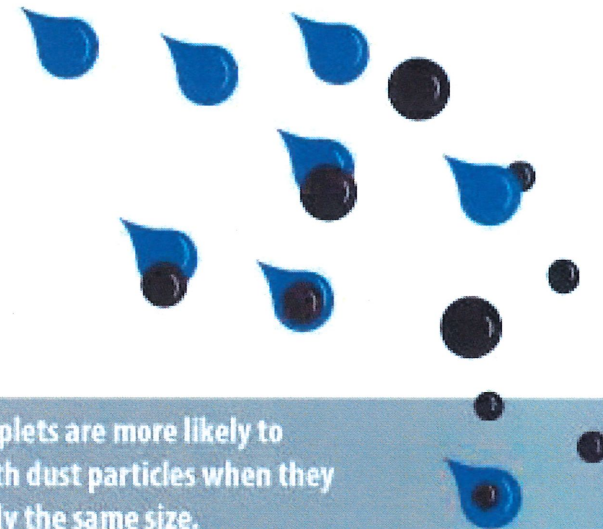
DEFINITIONS:

- "Welfare" = the health, happiness, or fortunes of a person or group; well-being.
- "Objectionable" = arousing distaste, opposition, or protest; undesirable, unpleasant, or offensive.
- "Offensive" = causing anyone to feel hurt, upset, angry, resentful.

Slipstream Effect



Water droplets are more likely to collide with dust particles when they are roughly the same size.



Atomized mist technology is more effective at suppressing dust than traditional moisture based systems because it creates smaller water droplets that avoid the slipstream effect.

SITE DEVELOPMENT STANDARDS

- Performance Standards

- **9.2.C.3**

- With the exception of ... noise necessarily involved in the construction or demolition of buildings or other structures (*which this is not*), no noise which is unreasonable in volume, intermittence, frequency, or shrillness shall be transmitted beyond the boundaries of the lot on which it originates.

DEFINITIONS:

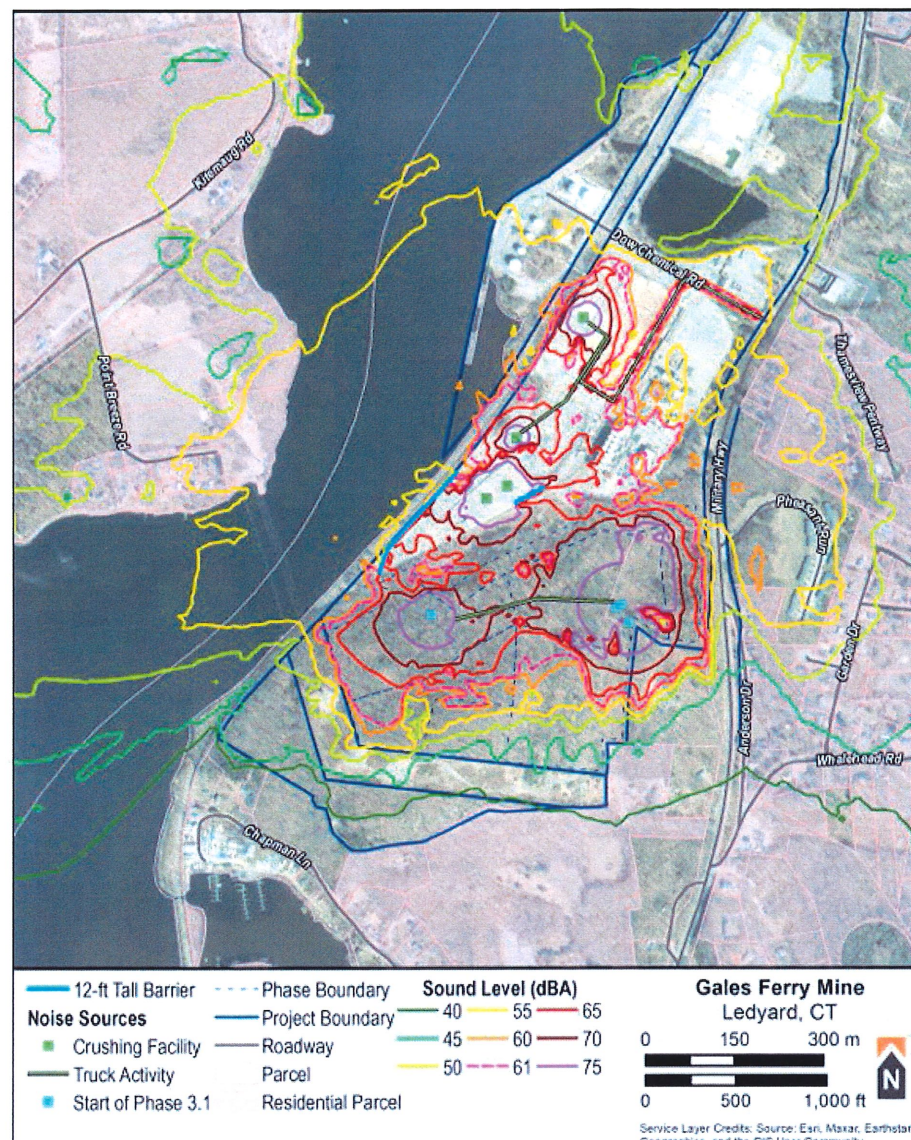
- "Unreasonable" = anything beyond what would be considered common sense.
- "Common sense" = perception that agrees with the generality of people.

SOUND STUDY MODELING ASSUMPTIONS

We assumed the following equipment in the extraction area would be operating at maximum capacity simultaneously:

- A crushing plant, containing one jaw crusher, two cone crushers and three screening decks, along with conveyance and loaders.³ After Phase 1, the primary jaw crusher is located within the excavation area.
- At the stockpiles, a loader loading the crusher and moving to and from the stockpiles,
- A tracked top-hammer rock drill. In each modeled phase, the drill was placed at the highest representative location within the phase.
- At the floor of the excavation, a loader, excavator, and an excavator mounted rock hammer.
- Dump trucks on the internal roads.

FIGURE 13 FROM
SOUND STUDY



OTHER EXCERPTS FROM SOUND STUDY

4.3 DATA ANALYSIS

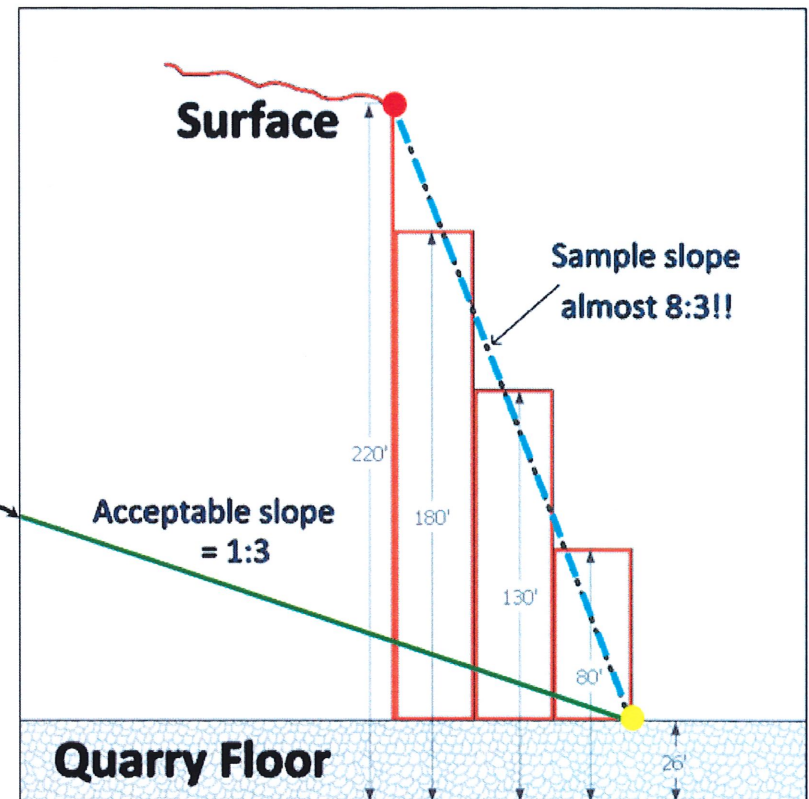
Data were excluded under the following conditions:

- Wind gust speeds above 5 m/s (11 mph)

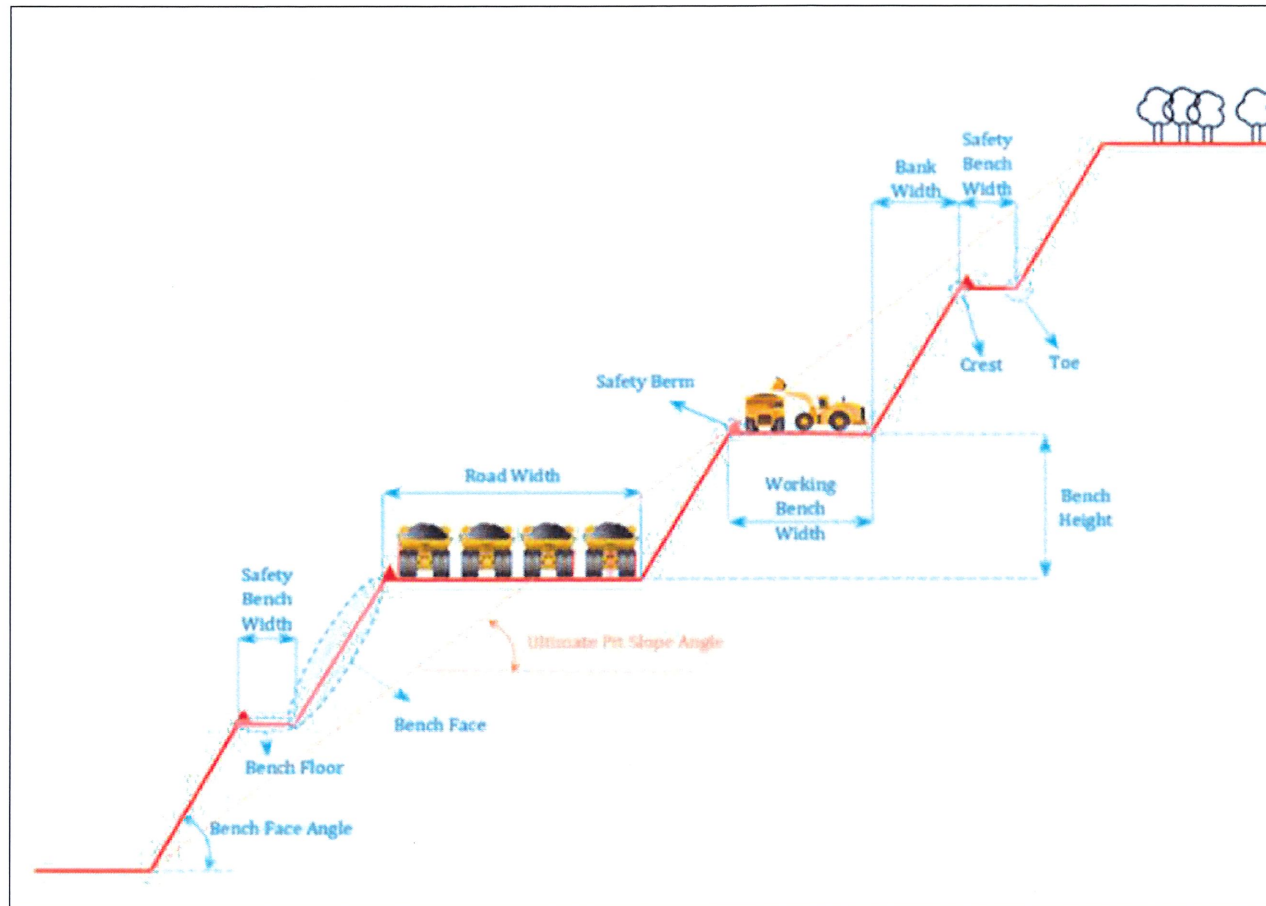
6. The results show that all residential properties are modeled to have project sound levels at or below Connecticut's 61 dBA daytime residential noise limit.

EXCAVATION, MAJOR - Operations

- 8.16.N.4
 - Upon completion of operations, **no bank shall exceed a slope of one (1) foot vertical rise in three (3) feet of horizontal distance.**



COMPONENTS OF A QUARRY BANK



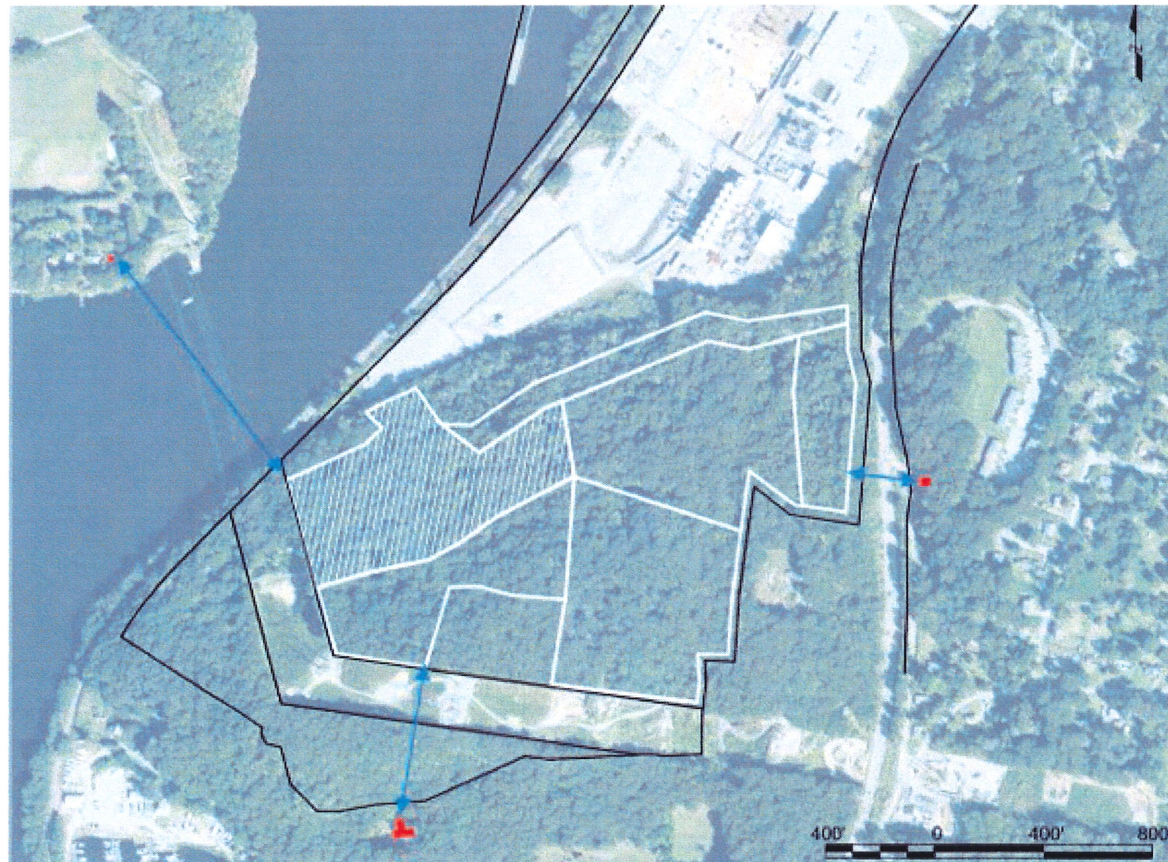
SITE DEVELOPMENT STANDARDS - SUSTAINABLE DEVELOPMENT

- Performance Standards

- **9.2.C.4**
 - **With the exception of vibration necessarily involved in the construction or demolition of buildings or other structures *(which this is not)*, no vibration shall be transmitted beyond the boundaries of the lot on which it originates.**

FROM SAULS SEISMIC'S VIBRATION IMPACT ANALYSIS

The closest locations were determined to be 22 Anderson Drive (east), 40 Chapman Lane (south) and 89 Point Breeze Road (west) as indicated in the aerial image below.



EXCAVATION, MAJOR

- 8.16.D.3 The purpose of these regulations is to ensure the following: the site will not be generally characterized by unsightliness as evidenced by open pits, rubble or other indications of completed digging operations which would have a deteriorating influence on nearby property values.

11.3.4 Special Permit Criteria: ... the applicant shall have the burden to prove:

- 11.3.4.D
 - That no adverse effect would result to the property values or historic features of the immediate neighborhood.

- **11.3.4.B**

- that transportation services would be adequate and that the uses would not cause traffic congestion or undue traffic generation that would have a deleterious effect on the welfare or the safety of the motoring public.

DEFINITIONS:

- “Deleterious effect” = does harm or makes things worse.
- “Welfare” = the health, happiness, or fortunes of a person or group; well-being.

- 11.3.4.C
 - That the proposed uses and structures would be in harmony with the appropriate and orderly development of the Zoning District in which they are proposed to be situated, and that the use(s) would not be noxious, offensive, or detrimental to the area by reason of odors, fumes, dust, noise, vibrations, appearance, or other similar reasons.

DEFINITIONS:

- “Noxious” = harmful or injurious with regards to human health or the environment.
- “Offensive” = causing someone to feel hurt, upset, angry, or causing resentful displeasure.

11.3.4 Special Permit Criteria: ... the applicant shall have the burden to prove:

- **11.3.4.E**

- That **the *character of the immediate neighborhood* would be preserved in terms of scale, density, *intensity of use*, existing historic/natural assets/features and architectural design.**

DEFINITIONS:

- “Character of the immediate neighborhood” = the distinctive traits, qualities, or attributes; the appearance and essential nature, pattern of uses, and sense of community of the surrounding area.
- “Intensity of use” is measured by requirements for water, gas, electricity, or public services, the number of vehicle trips generated, hours of operation, the amount of noise generated, etc.

11.3.4 Special Permit Criteria: ... the applicant shall have the burden to prove:

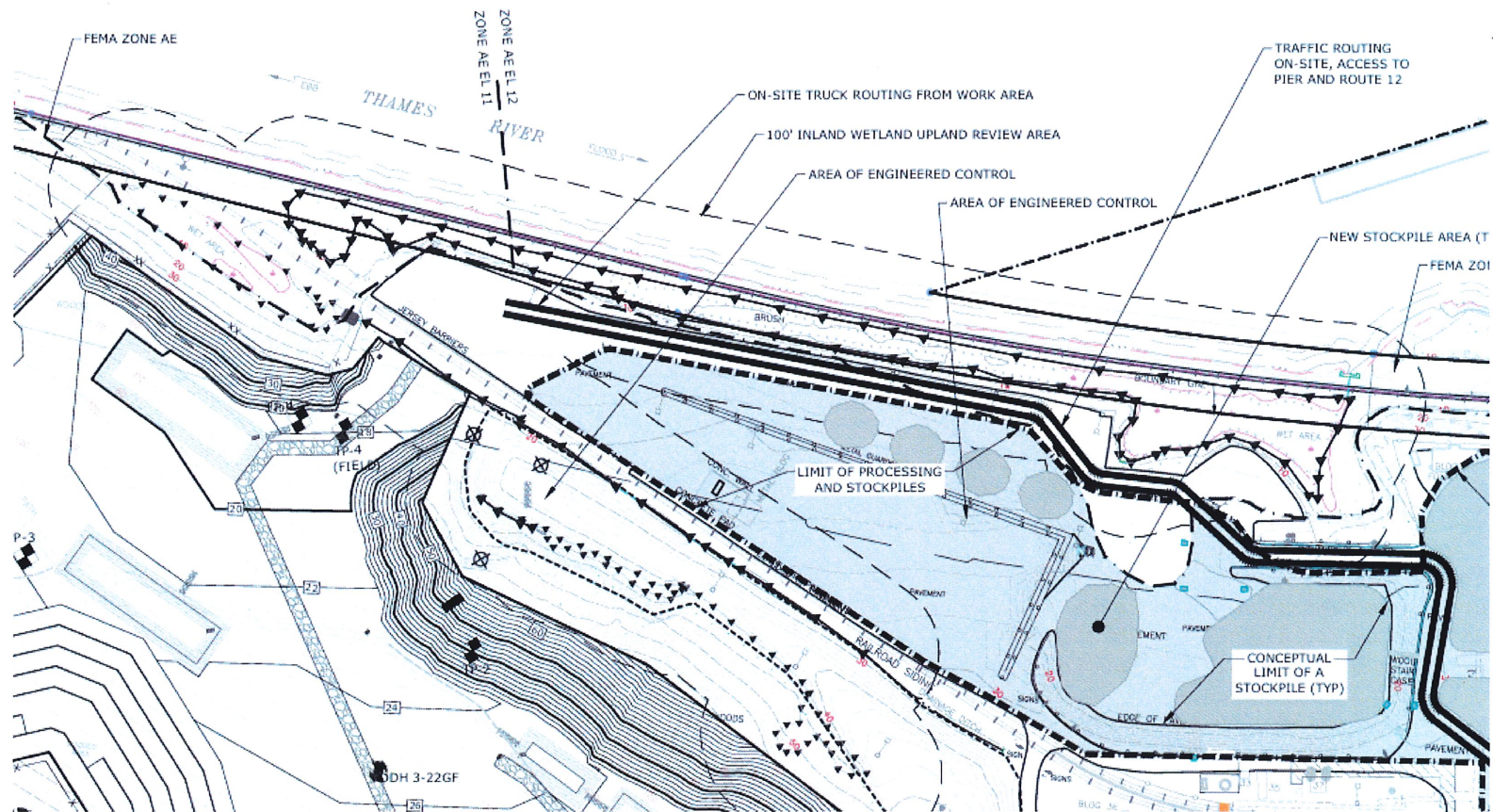
- **11.3.4.F**

- In accordance with CGS §22a-19, that the proposed uses would not cause any *unreasonable pollution*, impairment or destruction *of the air, water and other natural resources* of the state.

DEFINITIONS:

- "Unreasonable" = anything beyond what would be considered common sense.
- "Common sense" = perception that agrees with the generality of people.
- "Pollution" = the contamination of air, water, or earth by harmful substances.
- "Contamination" = making something impure from mixture or contact with a foreign substance.

EXCERPT FROM PAGE C-4



EXCERPTS FROM TAC LETTER EXHIBIT 95

I am pleased to share that representatives of GFI have graciously agreed to donate 3.44 acres of their property, which contains the main portion of the site of Fort Decatur, to the Conservancy for permanent preservation. This has been outlined in a signed agreement that further stipulates that an additional 5.87 acres, located to the south of the Eversource corridor on the property, will also be donated to the Conservancy if GFI is able to secure approvals for proceeding with their plans to engage in the Industrial re-grading of its property. In addition to the protection of this additional acreage, which contains deposits associated with the use of Fort Decatur, GFI has also committed to a number of preservation-minded stipulations, including the preparation of a nomination of the site to the National Register of Historic Places, funding for educational materials, and more, which will be implemented if a permit is granted.

The Conservancy is appreciative of GFI's engagement of Heritage Consultants to survey the cultural resources on their property, their ongoing negotiations with the State Historic Preservation Office, and their commitment to seeing the site of Fort Decatur preserved for the benefit of the people of Connecticut and this country. At this time, I suggest that the Planning and Zoning Commission consider these preservation benefits when evaluating GFI's permit application.

BURDEN OF PROOF

Tangible evidence PROVING they will comply.

Unsupported assertions that they will comply.

Promises to comply with the regulations.

Understands the regulations.

Oblivious to the regulations.