

#15502

HANCOCK
ASSOCIATES

December 22, 2009

Town of Littleton Planning Board
 Attention: Ms. Maren Toohill
 37 Shattuck Street, Room 303
 PO Box 1305
 Littleton, MA 01460

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LITTLETON
PLANNING BOARD

Re: Application for Site Plan Review
 Aggregate Industries Littleton Quarry
 149 Ayer Rd., Littleton, MA

Dear Board Members:

Hancock Associates (Hancock), acting on behalf of Aggregate Industries Northeast Region, Inc. ("AI"), hereby submits 10 copies of the plans and supporting documentation for consideration for Site Plan Review. This submission is to allow for the partial upgrade and replacement of aging equipment through the installation of new material processing equipment within the quarry and site grading to manage stormwater.

Description of Project

Aggregate Industries Northeast Region, Inc. seeks site plan approval to relocate and replace the existing finishing plant structure. The existing primary crusher and structure will remain in the same location and is not included in the plant upgrade.

The structure and numerous components of the finishing plant (section located closest to Ayer Rd) are more than 50 years old. The original plant was not built to today's health and safety standards however many improvements have been made to the structural steel, electrical and safety equipment. Nonetheless, the continued deterioration of the structure steel and concrete has been identified and analyzed by structural engineers and AI management.

The new equipment will encompass approximately 11 acres of land located in the northeast corner of the existing quarry. Blasted rock will be processed through a series of jaw and cone crushers and end up in stockpiles utilizing a series of conveyor belts.

AI has decided to take this bold step in a difficult economy and invest a significant amount of capital to replace the entire finishing plant. The new plant will utilize the most

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current equipment and technology available to the aggregate industry, including dust control, noise abatement and plant automation. The plant will be built to today's building codes and safety standards and will comply with all permits and regulations. The relocation of the plant further into the center of this 195 acre site will also help to improve view lines along Ayer Road. The relocated plant will no longer be visible from Ayer Road and all of the crushing equipment will now be located below the rim of the Quarry.

Other Permits Relevant to the Project

AI currently holds a Non-Major Comprehensive Air Plan Approval granted by MassDEP to operate the current quarry equipment. A new Non-Major Comprehensive Air Plan Application was submitted to MassDEP on October 28, 2009 to cover the proposed new equipment and facility changes. The Plan Application also included a noise survey conducted by Tech Environmental to determine compliance with the MassDEP Noise Policy and the Littleton Noise Bylaw. The noise modeling concluded that the maximum sound levels from the reconfigured plant would comply with the MassDEP Noise Policy as well as the Littleton Noise Bylaw. All necessary steps will be taken to ensure compliance with these regulations.

A copy of the complete Air Plan Application is included in this submittal for your review.

AI also currently holds a National Pollutant Discharge Elimination System Multi-Sector General Permit ("MSGP") for stormwater discharges associated with industrial activity. The facility maintains an up-to-date Storm Water Pollution Prevention Plan ("SWPPP") on site as required by the MSGP. The SWPPP will be updated as required to reflect changes in the facility layout and drainage as part of the plant upgrade. The storm water discharge point for the facility will not change as part of this project.

Description of Processing Equipment

The components of the processing equipment proposed are similar in function to the existing processing equipment currently located and in use on-site. The addition of this equipment does not constitute a change of use at the site and will simply allow for the relocation of material processing to the northeast portion of the property. The equipment is a combination of the existing crushers as well as conveyors, feeders and screeners. A detailed list of the individual components is shown below:

- Operator cab and structure – for good line of sight of the operations
- Truss conveyor – to transfer material discharging from the jaw crusher into the screens
- Double deck screens – to size the materials accordingly
- Channel conveyors – transfer material from bottom decks to conveyors
- Cone feed bin – to feed material to the cone crusher

- Heavy duty feeder – to feed material to the Cr2 crusher
- Existing Cone crusher – existing cone crusher will be relocated
- Fixed stacking conveyor – used to create surge piles of processed material
- Tunnel system – a 12 ft dia. steel tunnel through the surge pile
- Motor control center – to control motors
- Slurry Tank – to control water used for processing operations
- Two way splitter chute – transfer material from a conveyor and have the ability to blend by % onto other conveyors
- Triple deck screen – to size the materials accordingly
- Single deck screen – to size the materials accordingly
- Truss stockpile conveyor – will transfer the material from the conveyor to a stock pile
- Telestacker conveyor – will transfer material from a conveyor and build a stock pile
- Existing wash plant – existing wash plant will be relocated

The equipment is powered by electric motors ranging in horsepower from 2 HP to 400 HP. The facility will utilize line power as it does currently. Generators will not be installed as part of the project.

Description of Stormwater

All site stormwater currently traverses across the site from the East to West and into the bottom of the quarry. The proposed grading has maintained a similar flow pattern. The potential for erosion and developing turbid conditions will be minimized by grading the area to promote a uniform sheet flow across the site and to maintain shallow slopes as much as possible. The wider, uniform flow area will deter isolated discharge points, which usually result in higher velocity flows. The overall surface flow will flow to the Quarry Pond, a large low lying flat area within the center of the quarry, where it is retained and used as a water source for the facility. Storm water collected in the Quarry Pond will also continue to be discharged off site under the current MSGP. AI will continue to meet or exceed storm water sampling requirements and effluent limitations.

Aquifer and Water Resource District

Section 173-61 of the Zoning was reviewed to determine if a Special Permit would be required for the proposed processing equipment. Based on a review of the proposed equipment trigger entries listed in 173-61, we do not see a need for a Special Permit.

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Wetlands Protection Act and Local Bylaw Provisions

Hancock has conducted a site visit and review of pertinent wetland regulations, and concludes that there is no wetlands jurisdictional interest in the project area. See attached Environmental Resource Area Analysis for further detail.

We look forward to hearing from you and if you have any questions, please do not hesitate to contact us at our office.

Very truly yours,

HANCOCK ASSOCIATES



Alfred A. Taney, P.E.
Senior Project Manager

cc: Hector Casillas (Turn-Key Processing Solutions)
Lisa Young (Aggregate Industries Northeast Region, Inc.)
Chad Abramson (Aggregate Industries Northeast Region, Inc.)
Scott Colby (Aggregate Industries Northeast Region, Inc.)
Steve Landry (Aggregate Industries Northeast Region, Inc.)
Ed Persico (Aggregate Industries Northeast Region, Inc.)
Hancock Project File

Attachments: Site Plan Review Checklist
Permit Site Plan, dated 12/22/09
Environmental Resource Areas Analysis
Non-Major Comprehensive Plan Approval, dated October 2009