FRIARS DRIVE INDUSTRIAL BUILDING

ADDENDUM

SP# 15-22 (Amendment to SP# 10-21)

STAFF REPORT

January 11, 2023

SITE: 48 Friars Drive; Map 209 Lot 001-000

ZONING: General (G) & Industrial (I): all site work proposed in Industrial Zone.

PURPOSE OF PLAN: Addendum tenant adjustments of previously-approved site plans. Consists of replacing previously-approved truck docks and truck areas with parking and green space and related adjustments, and adding 19,320 SF of office space in a second level fully contained within the previously-approved building envelope. No new pavement is proposed, and no changes are involved outside of the previously-approved paved footprint area.

PLANS UNDER REVIEW:

Site Plan Tenant Addendum, Friars Drive, Parcel 209-001-000 @ Sagamore Industrial Park, Hudson, New Hampshire, 48 Friars Drive, Hudson, NH; prepared by: The Dubay Group, Inc. 136 Harvey Rd. Bldg B101, Londonderry, NH 03053; prepared for: GFI Partners / Lowell Road Property Owner DE, LLC, 133 Pearl Street #300, Boston, MA 02110; consisting of 6 sheets (including proposed building elevations prepared by Eugene T. Sullivan, Inc.), with 1 general note on Sheet 1; dated October 24, 2022; last revised, November 29, 2022.

ATTACHMENTS:

- A. Traffic Analysis Memorandum, prepared by TFM, received November 10, 2022.
- B. Peer Review, prepared by Fuss & O'Neill, received November 15, 2022.
- C. Applicant Response to Town Engineer's Review, prepared by The Dubay Group, received November 16, 2022.
- D. Applicant Response to Peer Review, prepared by The Dubay Group, received November 29, 2022.
- E. Peer Review, prepared by Fuss & O'Neill, received December 21, 2022.
- F. SP# 10-21 Notice of Approval
- G. Department Comments
- H. CAP Fee worksheet

APPLICATION TRACKING:

- December 15, 2021 Waiver granted from §275-8:C(2) for reduction in parking spaces
- March 23, 2022 Approval granted for SP# 10-21
- October 28, 2022 Application received.
- December 14, 2022 Public hearing deferred.
- January 11, 2023 Public hearing scheduled.

COMMENTS & RECOMMENDATIONS:

BACKGROUND & OVERVIEW

This application is for minor modifications to the previously approved 504,000 SF warehouse building. A lease with Life is Good, an existing business in Hudson, has been negotiated for 75% of the warehouse building. The company plans to consolidate their four other warehouse locations and their corporate headquarters at this location, including approximately 200 employees. The site plan modifications include removing 38 truck loading docks, adding 70 employee parking spaces, adding 19,320 SF of second story office space within the previously approved building envelope, and adding landscaped areas to the exterior.

While 19,320 SF of mezzanine office space is to be added to the project, the applicant states that only 10-15 "executive" office staff will work specifically in the office space. The rest of the additional office space is designated for uses including a break room, locker rooms, and open office space with work stations for warehouse staff.

The addendum plans are amending existing approved plans. The existing approved plans should be taken into account when determining whether or not plan requirements are complete.

A traffic memorandum has been submitted to address the proposed changes (**Attachment A**). The prior traffic study was based on the ITE Land Use Code 154 for High-Cube Warehouses for both tenants. The updated traffic study shows both: trip generation by ITE Land Use Code 154 and; the actual employee counts and shift schedules of the proposed tenant for 75% of the building, combined with an estimate based on the ITE LUC 154 for the 25% of the building that has not yet been leased. The updated traffic study shows an increase of 2 passenger cars in AM and PM peak and no additional truck trips based on ITE, and a reduction in both cars and trucks during AM and PM peak when using tenant specific data.

PEER REVIEW

The Peer Reviewer, Fuss & O'Neill, provided comments (**Attachment B**) on November 15, 2022 on the plan set dated October 24, 2022 and the Applicant submitted a response (**Attachment D**) on November 29, 2022. The Peer Reviewer provided a second set of comments (**Attachment E**) on December 21, 2022 on the plan set dated November 29, 2022.

While the Peer Review has no further comments, they note items related to the previous review:

• Utility Pole Easement: the Applicant should provide copies of all executed easements, if needed, associated with the off-site improvements to the Town for their records. This relates to the relocation of a utility pole to accommodate the

construction of the right hand turn slip lane off of Lowell Road and is ongoing pursuant to the previous approval (Attachment F).

- Drainage Design: the Applicant should review the need for an underdrain to prolong the life of the pavement, drainage system, and building structures. Applicant responded that ongoing construction has found no evidence of groundwater that would initiate additional underdrains.
- Amended Alteration of Terrain permit: the Applicant should provide documentation to the Town that an amended AoT is not required. Applicant has contacted NHDES to acknowledge the addendum. Copies of any documentation should be provided to the Town.

DEPARTMENT COMMENTS

See Attachment G for comments from town departments.

- 1. Engineering: See the attachment for intial review comments from the Engineer. All comments were subsequently addressed to the Town Engineer's satisfaction. The water utility review remains ongoing pursuant to the previous approval.
- 2. Fire: The Fire Marshal included the comments made by former Fire Chief Buxton during the previous application review. These were addressed in the previous application and/or are ongoing pursuant to the previous approval.

RECOMMENDATIONS

Staff recommends the application for acceptance unless the Planning Board finds that additional information required to undertake review is necessary. Upon acceptance and the Applicant's presentation, staff recommends opening public input followed by Planning Board deliberation.

DRAFT MOTIONS

ACCEPT the site plan application:

I move to accept the site plan application for the Site Plan Tenant Addendum, Friars Drive, Parcel 209-001-000 @ Sagamore Industrial Park, 48 Friars Drive; Map 209 Lot 001-000.

Motion by: _____Second: _____Carried/Failed: _____

<u>CONTINUE</u> the public hearing to a date certain:

I move to continue the site plan application for the Site Plan Tenant Addendum, Friars Drive, Parcel 209-001-000 @ Sagamore Industrial Park, 48 Friars Drive; Map 209 Lot 001-000, to date certain, ______, 2023.

Motion by: ______Second: _____Carried/Failed: _____

SP# 15-22 Staff Report Page 3 of 4

DEFER the public hearing to a date certain:

I move to defer the site plan application for the Site Plan Tenant Addendum, Friars Drive, Parcel 209-001-000 @ Sagamore Industrial Park, 48 Friars Drive; Map 209 Lot 001-000, to date certain, _____, 2023.

Motion by: _____Second: _____Carried/Failed: _____

<u>APPROVE</u> the site plan application:

I move to approve the site plan for the Site Plan Tenant Addendum, Friars Drive, Parcel 209-001-000 @ Sagamore Industrial Park, Hudson, New Hampshire, 48 Friars Drive, Hudson, NH; prepared by: The Dubay Group, Inc. 136 Harvey Rd. Bldg B101, Londonderry, NH 03053; prepared for: GFI Partners / Lowell Road Property Owner DE, LLC, 133 Pearl Street #300, Boston, MA 02110; consisting of 6 sheets (including proposed building elevations prepared by Eugene T. Sullivan, Inc.), with 1 general note on Sheet 1; dated October 24, 2022; last revised, November 29, 2022; subject to, and revised per, the following stipulations:

- 1. All stipulations of approval shall be incorporated into the Development Agreement, which shall be recorded at the HCRD, together with the Plan.
- 2. This approval remains subject to the conditions of approval of SP# 10-21 approved on March 23, 2022.
- 3. The addition of office space necessitates an additional cost allocation procedure (CAP) amount of \$44,629.20 to the previously assessed amount of \$357,840.00 for a combined total of \$402,469.20 which shall be paid prior to the issuance of a Certificate of Occupancy.
- 4. Prior to the issuance of a final certificate of occupancy, an L.L.S. Certified "as-built" site plan shall be provided to the Town of Hudson Land Use Division confirming that the development conforms to the Plan approved by the Planning Board.
- 5. Prior to the Planning Board endorsement of the Plan, it shall be subject to final administrative review by Town Planner and Town Engineer.
- 6. Prior to application for a building permit, the Applicant shall schedule a preconstruction meeting with the Town Engineer.
- Construction activities involving the subject lot shall be limited to the hours between 7:00 A.M. and 7:00 P.M. No exterior construction activities shall be allowed on Sundays.
- 8. Hours of refuse removal shall be exclusive to the hours between 7:00 A.M. and 7:00 P.M., Monday through Friday only.

Motion by:	Second:	Carried/Failed:



PROJECT NARRATIVE

Date:October 26, 2022To:Brian Groth, Hudson Town Planner
Hudson Planning BoardFrom:Hayley Palazola, Project Manager, Lowell Road Property Owner DE, LLCSubject:Friars Drive Industrial Facility

Site Plan Application

On behalf of the property owner and applicant, Lowell Road Property Owner DE, LLC, our team is pleased to submit the Site Plan Application for minor modifications to previously approved 504,000 SF, warehouse building located on Lot 209-001-000, aka 48 Friars Drive Hudson, NH. On March 30, 2022, the applicant received a Notice of Approval from the Town of Hudson Planning board for the Site Plan that included a proposed 504,000 square foot warehouse building with 104 loading dock doors, 46 trailer slips, and 366 parking spaces. Since the applicant's receipt of approvals, we have negotiated a lease for 75% of the warehouse building. The tenant, Life is Good, an existing business located in Hudson, NH, is a world class lifestyle brand committed to spreading optimism and giving back to their community. The company plans to consolidate their four other warehouse locations and move their corporate headquarters and approximately 200 employees to the Sagamore Industrial Park. We couldn't be more proud to keep Life is Good in the Town of Hudson and feel that they are the perfect tenant to call Friars Drive their new home. To meet the tenant's requirements, we are seeking a minor modification of the previously approved plan that would include the following and are illustrated on the site plan application plan set:

- 1) Removing a total of 38 loading dock door spaces and reducing truck court area.
- 2) Adding 70 employee parking spaces near the tenant's office entrances, additional green strips, and landscaped areas. The new landscaped areas will include 22 new tree plantings and 165 new shrubs in compliance with the Town's landscaping requirements.
- 3) Adding 19,320 SF of second story office space within the previously approved building footprint for a new total building square footage of 523,320 SF.
- 4) Adding landscaped areas and brick pavers to the employee main entrance of the office.

Design Revisions & Analysis

To determine any impacts of the new tenant's requirements, we engaged our engineering team to revisit traffic, drainage, utilities including water and sewer calculations, parking, impervious coverage and building height. The results of the analysis are summarized below and more fully detailed in the site plan application.

Traffic

The applicant's traffic engineer, TF Moran was asked to compare the traffic volumes associated with the previously approved 504,000 square foot warehouse based on ITE LUC 154 in 2021 to the traffic volumes associated with the new tenant that will occupy 397,320 square feet of a slightly larger warehouse facility totaling 523,320 square feet.

In the 2021 Traffic study, the trip generation was based on the ITE Trip Generation Manual 10th edition and the HCW supplement. Trip rates within the current 11th edition remain unchanged for ITE LUC 154. In the 2022 updated trip generation calculations instead of relying on ITE LUC 154 data, the engineer used the real empirical data based on the new tenant's actual employee count and shift schedules. For the remaining 126,000 square feet of available space, ITE LUC 154 was applied. The results of the updated trip generation calculations are more fully detailed in the Traffic Analysis Memorandum dated October 21, 2022. The summary conclusion finds that the proposed shift schedule for Life is Good substantially reduces trip generation originally approved in 2022. The update also results in a reduction of daily truck trips from 111 truck trips down to 44 daily truck trips. Therefore, we conclude that traffic conditions and mitigation measures in the original 2021 Traffic Report continue to be applicable to the overall facility represented in the traffic memorandum.

Impervious Coverage & Perimeter

No changes are being made to any features around the project perimeter, including edge of pavement, berms, landscaping, fencing, buffers, etc. Within the project development area, there will be no increase in pavement or impervious coverage, and there will be no reduction in landscaping. In fact, the opposite is true, where this site plan modifications reduce impervious coverage and increase landscaping.

Drainage

The minor revisions reduce paved areas at all adjusted locations (25, 762 square feet), and the revised design increases landscaped areas. No changes in the drainage design are needed, other than adjusting a few catch basin rims up where warranted. The overall flow patterns are not changed, and all flows are reduced with this modification.

Parking

The revised plan includes eliminating 38 truck loading spaces and adding 70 employee car parking spaces for the new tenant. Although employee parking spaces have been added, we replaced portions of the trucking areas with landscaped areas. All of this is completely contained within the previously-approved parking areas. The parking summary sheet provides the detail, including the required additional landscaping calculations, density and employee support calculations, and net data revision information. Note that the new parking provided meets the minimum 1 space per 600 SF for the overall facility as required, thus no new waivers should be required for the ratio.

Utilities

Sewer

The sewer design is unchanged. The revisions in program space as warranted by the new tenant commitment reduce the pre-permitted sewer flows via a substantial net reduction in the anticipated employees. The sewer flow calculations are outlined on the plans.

Water

Overall water use will be reduced (refer to the Sewer discussion above). Also, the water tank and facilities final MEP engineering design is being completed, and meshes appropriately into the previously-approved site designs.

Building Elevations

The proposed building height remains unchanged from the previously approved plan. The proposed 19,320 square foot second story office will be wholly contained within the previously approved building shell. The revised elevations include additional window and door glass glazing to provide a more welcoming entrance to the office location.

CAP Fees

The increase in office square footage is annotated on the plans and results will increase the CAP fee, assessed when approved and due prior to the issuance of Certificate of Occupancy in accordance with Town procedures.



Town of Hudson 12 School Street Hudson, NH 03501

SITE PLAN APPLICATION

Revised August 1, 2022

The following information must be filed with the Planning Department *at the time of filing a site plan application*:

- (provided) 1. One (1) original completed application with original signatures, and one (1) copy.
- (provided) 2. Three (3) full plan sets (sheet size: 22" x 34").
- (provided) 3. One (1) original copy of the project narrative, and one (1) copy.
- (provided) 4. A list of direct abutters and a list of indirect abutters, and two (2) sets of mailing labels for abutter notifications.
- (provided) 5. All of the above application materials, including plans, shall also be submitted in electronic form as a PDF.
- (provided) 6. All plans shall be folded and all pertinent data shall be attached to the plans with an elastic band or other enclosure.

The following information is required to filed with the Planning Department *no later than 10:00* A.M., Tuesday ONE WEEK prior to the scheduled Planning meeting. The purpose of these materials is hardcopy distribution to Planning Board members, not review. Any plan revisions that require staff review must be submitted no later than 10:00A.M., Tuesday TWO WEEKS prior to the scheduled Planning meeting. Depending on the complexity of changes, more time may be required for review. Please contact the Town Planner if you have any questions on this matter.

- (provided) 1. Submission of fifteen (15) 11" X 17" plan sets, revised if applicable.
- (provided) 2. Submission of two (2) full plan sets (sheet size: 22" x 34"), if revised.
- (provided) 3. All of the above application materials, including plans, shall also be submitted in electronic form as a PDF.

Note: Prior to filing an application, it is recommended to schedule an appointment with the Town Planner.

(coordinated)

SITE PLAN APPLICATION

Date of Application:	October 28,2022	Tax Map #:209	Lot #:001-000
Site Address:	48 Friars Drive		
Name of Project:	48 Friars Drive Industrial Si	te Plan - Tenant Addendum	1
Zoning District:	Industrial & General	General SP#:	
	one for the recently-approved s	General SP#: ite plan, and none propose	(For Town Use Only) d)
PROPERTY OWNER	<u>R:</u>	DEVELOPER:	
Name: Lowell Roa	d Property Owner DE, LLC	(same as owner)	
Address: 133 Pearl S	treet, Suite 300		
Address: Boston, MA	02110		
Telephone #(303)2			
Email: hpalazola@gfi			
(Hayley Palaze PROJECT ENGINEE	ola, VP of Development)	SURVEYOR:	
Name: Karl Dub	ay, The Dubay Group, Inc.	Joel Connolly,	The Dubay Group, Inc.
	rey Rd Bldg B101	136 Harvey Rd	Bldg B101
	erry, NH 03053	Londonderry, N	IH 03053
Telephone #_ 603-247	7-8766 (direct)	603-315-8763 (direct)
	edubaygroup.com	joel@thedubay	group.com

<u>PURPOSE OF PLAN:</u> Addendum tenant adjustments of previously-approved site plans. Consists of replacing previously-approved truck docks and truck areas with parking and green space and related adjustments, and adding 19,320 SF of office space in a second level fully contained within the previously-approved building envelope. No new pavement is proposed, and no changes are involved outside of the previously-approved paved footprint area.

	(For Town Use O	nly)	
Deadlir	ne Date:	Meeting Date:	
comments	I have com	ments (attach to form)	
Title:		Date:	
ing Assesso	r Police	Fire: DPW: Cor	nsultant:
	comments	Deadline Date: comments I have com	(For Town Use Only) Deadline Date: Meeting Date: comments I have comments (attach to form) Date: ing: Assessor: Police: Fire: DPW:Cor

PLAN NAME:48 Friar	s Drive Industrial Si	te Plan - Tena	ant Addendum
PLAN TYPE: <u>SITE PLAN</u> - Tenant	Addendum		
LEGAL DESCRIPTION: MAP	209	LOT	001-000
DATE: October 28, 2022			
Location by Street:	48 Friars Drive		
Zoning:	Industrial & Gene	eral (unchange	ed)
Proposed Land Use:	(same as Existing	, minor adden	ndum)
Existing Use:	Industrial/Comme	rcial (approve	d & under construction)
Surrounding Land Use(s):	Industrial, Comm	ercial, & Resid	dential
Number of Lots Occupied:	one single lot		
Existing Area Covered by Building:	504,000 SF (app	proved & unde	er construction)
Existing Buildings to be removed:	none		
Proposed Area Covered by Building:	-		ds 19,320 KSF in a 2nd level within the existing oved (no increase in height or dimensions)
Open Space Proposed:	66% (includes 23	acres within p	protective covenant area, unchanged)
Open Space Required:	35% min require	d (26 acres)	
Total Area:	S.F.: ^{3,260,249} +	-/- Acres: >	74 (per previous plans, unchanged)
Area in Wetland:	(unchanged per Are		
Required Lot Size:	1 Acre (per previo		
Existing Frontage:	468 LF (unchang	ed) per previo	ous approved plans
Required Frontage:	150 LF (min) per	previous app	proved plans
Building Setbacks:	Required* (per p	revious	Proposed
Front: Side: Rear:	30 FT 15 FT 15 FT		431 FT (unchanged) 287 FT (unchanged) 246 FT (unchanged) (complies, unchanged)

SITE DATA SHEET

Page 3 of 8 Site Plan Application - Hudson NH 080122

SITE DATA SHEET (Continued)

Flood Zone Reference: (no work proposed in flood plain) Maps 33011C0652E (4/18/2011) & 33011C0656D (9/25/2009) (24 to 32+ per approved plans - unchanged) Width of Driveways: (retain one per approved plans - no change) Number of Curb Cuts: 366 parking spaces were previously approved, replace trucking/loading areas with 70 new parking spaces for a proposed Proposed Parking Spaces: total of 436 parking spaces. Refer to parking Summary Plan Addendum. Required spaces = 523,320 sf @ 1:600 = 873 Required Parking Spaces: Basis is typical industry standards for the use. Previously, the required spaces were shown on plans as attainable, however the waiver was granted knowing Basis of Required Parking (Use): that these areas would instead be protected natural state via covenant. Dates/Case #/Description/Stipulations (none for the recently-approved site plan, of ZBA. Conservation Commission. no wetland permitting required from the recently-approved site plan) NH Wetlands Board Actions: (Attach stipulations on separate sheet) Waiver Requests Regulation Description: Town Code Reference: 275-8:(C)2 Allows a reduction in required parking spaces to those outlined on the plans. This waiver was granted in December 2021. The additional area of proposed office is indeed served by the additional provided parking spaces at the required ratios (see calcs on plans). Thus, the planning board may concur that the previously approved waiver is sufficient. Refer to previously-granted approvals on file with the Town.

No new waivers for this addendum are known to be required.

(For Town Use Only)
Data Sheets Checked By: _____ Date: _____

SITE PLAN APPLICATION AUTHORIZATION

I hereby apply for *Site Plan* Review and acknowledge I will comply with all of the Ordinances of the Town of Hudson, New Hampshire State Laws, as well as any stipulations of the Planning Board, in development and construction of this project. I understand that if any of the items listed under the *Site Plan* specifications or application form are incomplete, the application will be considered rejected.

Pursuant to RSA 674:1-IV, the owner(s) by the filing of this application as indicated above, hereby given permission for any member of the Hudson Planning Board, the Town Planner, the Town Engineer, and such agents or employees of the Town or other persons as the Planning Board may authorize, to enter upon the property which is the subject of this application at all reasonable times for the purpose of such examinations, surveys, tests and inspections as may be appropriate. The owner(s) release(s) any claim to or right he/she (they) may now or hereafter possess against any of the above individuals as a result of any examinations, surveys, tests and/or inspections conducted on his/her (their) property in connection with this applications.

Signature of Owner:	Date: October 28, 2022
Print Name of Owner: Steven E. Goodman - Lowell Road Prope	rty Owner DE, LLC
If other than an individual, indicate name of organization and its print corporate officers.	cipal owner, partners, or
Signature of Developer	Date: October 28, 2022
Print Name of Developer: (same as owner above)	(2);

The developer/individual in charge must have control over all project work and be available to the Code Enforcement Officer/Building Inspector during the construction phase of the project. The individual in charge of the project must notify the Code Enforcement Officer/Building Inspector within two (2) working days of any change.

WAIVER REQUEST FORM

Name of Subdivision/Site Plan:		(No new waivers are known to be required)		
Street Address:				
I		hereby request that the Planning Board		
waive the requirements of item		of the Hudson Land Use Regulatio		
in reference to a plan presented by	/			
	(name of surveyor	and engineer) dated for		
property tax map(s)	and lot(s)	in the Town of Hudson, NH.		

As the aforementioned applicant, I, herein, acknowledge that this waiver is requested in accordance with the provisions set forth in RSA 674:36, II (n), i.e., without the Planning Board granting said waiver, it would pose an unnecessary hardship upon me (the applicant), and the granting of this waiver would not be contrary to the spirit and intent of the Land Use Regulations.

Hardship reason(s) for granting this waiver (if additional space is needed please attach the appropriate documentation hereto):

Reason(s) for granting this waiver, relative to not being contrary to the spirit and intent of the Land Use Regulations: (if additional space is needed please attach the appropriate documentation hereto):

Signed:

(No new waivers are known to be required)

Applicant or Authorized Agent

SCHEDULE OF FEES

A. <u>REVIEW FEES:</u>

1.	<u>Site Plan Use</u>	Project Size/Fee		
	Multi-Family	\$105.00/unit for 3-50 units \$78.50/unit for each additional unit over 50	\$_	(n/a)
	Commercial/Semi Public/	Civic or Recreational \$157.00/1,000 sq. ft. for first 100,000 sq.ft. (bldg. area): \$78.50/1,000 sq.ft. thereafter.	\$_	(n/a)
	Industrial	\$150.00/1,000 sq.ft for first 100,000 sq.ft. (bldg. area); (\$150 x 19.32 ksf = \$78.50/1,000 sq.ft thereafter.	\$_	2,898
	No Buildings	\$30.00 per 1,000 sq.ft. of proposed developed area	\$_	(n/a)
<u>C(</u>	ONSULTANT REVIEW F	TEE: (Separate Check)		

Total(misc re-work)acres @ \$600.00 per acre, or \$1,250.00, whichever is greater.

\$ 1,250 \$2,000

(TBD) This is an estimate for cost of consultant review. The fee is expected to cover the amount. A complex project may require additional funds. A simple project may result in a refund.

(TBD) <u>LEGAL FEE:</u>

The applicant shall be charged attorney costs billed to the Town for the Town's attorney review of any application plan set documents.

B. <u>POSTAGE:</u>

C.

25	Direct Abutters Applicant, Professionals, etc. as required by RSA 676:4.1.d @\$4.60 (or Current Certified Mail Rate)	\$_	115
27	Indirect Abutters (property owners within 200 feet) @\$0.60 (or Current First Class Rate)	\$_	17
TAX	MAP UPDATING FEE: (FLAT FEE)	\$_	275.00
	TOTAL	\$_	4,555 \$5,305

SCHEDULE OF FEES

(Continued)

	(For Town Use)	
AMOUNT RECEIVED: \$	DATE RECEIVED:	
RECEIPT NO.:	RECEIVED BY:	_

NOTE: fees below apply only upon plan approval, not collected at time of application.

D. <u>RECORDING:</u>

The applicant shall be responsible for the recording of the approved plan, and all documents as required by an approval, at the Hillsborough County Registry of Deeds (HCRD), located at 19 Temple Street, Nashua, NH 03061. Additional fees associated with recording can be found at HCRD. (To be determined)

E. <u>COST ALLOCATION PROCEDURE AMOUNT CONTRIBUTION AND OTHER</u> <u>IMPACT FEE PAYMENTS:</u> (To be determined, the addendum change of GSF within the previously-approved building under construction is 19,320 SF) To be determined by the Planning Board at time of plan approval and shall be paid by the applicant at the time of submittal of the Certificate of Occupancy Permit requests.

The applicant shall be responsible for all fees incurred by the town for processing and review of the applicant's application, plan and related materials.

This checklist is intended to help the applicant and staff to ensure application completeness. Please refer to the regulations on the exact language of each requirement.

Key: Y=Yes P =Pending W=Waiver Request

Relevant Regulations:

§ 276-11.1 General Plan Requirements §§ 275-8 – 275-9 Site Plan Requirements

	$\underline{Y} \underline{P} \underline{W}$	Notes
1.	X - A list of the names and addresses of the owner(s) of	
	the property, the applicant(s), and all abutters as indicated in the office of the Town Assessor	
	records not more than five (5) days prior to the day	
	of filing [§ 276-11.1.A.]	
2	X - Sets of plans and copies as indicated on application.	
3.	X - Scale no smaller than 50 feet to the inch (1" = 50') [§ 276-11.1.B.(2)]	
4.	Title block in the lower right-hand corner of the plan, containing: [§ 276-11.1.B.(3)]	
5.	- Title, including the term "site plan" or "subdivision plan"	
6.	X - The name for whom the plan was prepared	
7.	X - Preparer of the plan	
8.	The scale(s) of the plan	
9.	X Date of the plan	
10.	X - Appropriate revision block	
11.	X ☐ - Approval block (2"x6") located on the lower left corner of each sheet, with the required language	
	and signature lines	
	[§ 276-11.1.B.(4) & § 289-27.A]	
12.	X ☐ - A space (2"x1.5") adjacent to the approval block containing the required statement	
	[§ 276-11.1.B.(5)]	
13.	Owner's printed name and address and signature [§ 276-11.1.B.(6)]	
14.	Image: Second state of all abutting property owners [§ 276-11.1.B.(7)]	
15.	□ - A locus plan at one inch equals 1,000 feet (1" = 1,000') [§ 276-11.1.B.(8)]	

(Continue next page)

This checklist is intended to help the applicant and staff to ensure application completeness. Please refer to the regulations on the exact language of each requirement.

Key: Y=Yes P =Pending W=Waiver Request $\begin{array}{c|c} \underline{Y} & \underline{P} & \underline{W} \\ 16. \end{array} \\ \hline \square & \square \\ \hline \square \\ \hline \end{array} - Boundary of the entire parcel held in single \\ \end{array}$ Notes (refers to active approved plans ownership with boundary dimensions and bearings already on file with Town and [§ 276-11.1.B.(9)] State) 17. X (refers to active approved plans - Error of closure shown and certified by a already on file with Town and licensed land surveyor State) 18. - North point arrow 19. 🛛 🗌 – Zoning classification note of the tract and location of the zoning district boundaries if the property is located in two or more zoning district [§ 276-11.1.B.(10)] (refers to active approved plans 20. X - The location of all buildings within 50 feet of the tract already on file with Town and [§ 276-11.1.B.(15)] State) 21. X - The location of roadways, driveways, travel areas or (refers to active approved plans parking areas within 200 feet of the tract, in already on file with Town and accordance with § 276-11.1.B.(16) State) 22. X - Existing topography at two-foot contour intervals of that portion of the tract being proposed for development from a topographic survey and contours on the remainder of the tract from a reliable plan source [§ 276-11.1.B.(17)] 23. X - Proposed topography at two-foot contour intervals [§ 276-11.1.B.(18)] 24. 🗶 🗌 🗖 - A note identifying the Tax Map and Lot Number of the tract [§ 276-11.1.B.(19)] 25. 🗶 🗌 🗖 - The location of all existing buildings (including size (refers to active approved plans already on file with Town and and height), driveways, sidewalks, parking spaces, loading area, open spaces, large trees, open State) drainage courses, signs, exterior lighting, service areas, easements landscaping and other pertinent items. [§ 276-11.1.B.(20)] (refers to active approved plans 26. X - The location of all proposed construction, buildings, already on file with Town and structures, pavement, etc. [§ 276-11.1.B.(21)] State) 27. X - A green area shown between the right-of-way line and any pavement, gravel or structure meeting the required minimum width [§ 276-11.1.B.(22)] 28. X - Note any pertinent highway projects. (refers to active approved plans [§ 276-11.1.B.(23)] already on file with Town and State) (Continue next page)

This checklist is intended to help the applicant and staff to ensure application completeness. Please refer to the regulations on the exact language of each requirement.

Key: Y=Yes	P = Pending	W=Waiver Request	NA=Not Applic	able (please explain)
<u>Y</u> <u>P</u> <u>W</u>	<u>NA</u>			Notes
30. 🛛 🗌 🗌	required	ion of all building setbac d by Chapter 334, Zonin required by § 276-11.1.	g, and setback	(refers to active approved plans already on file with Town and State)
31. 🕅 🗌 🗌	note* st by the I	ion size and character of tating "All signs are sub Hudson Zoning Adminis tion thereof." [§ 276-11.	ject to approval trator prior to	(refers to active approved plans already on file with Town and State)
	correc	discrepancy on the note ct – reference to the Plar gulations is outdated.		
32. 🗶 🗌 🗌	lighting	ion, detail and character or a note stating: "Ther lighting." [§ 276-11.1.I	e will be no	(refers to active approved plans already on file with Town and State)
33. 🗶 🗌 🗌	showing	open space, including th g the requirement is met 11.1.B.(24)]		
34. 🗶 🗌 🗌	stateme are prov	pace calculation showing nt stating the required pavided 8.C.(2) & (3)]		
35. 🗶 🗌 🗌	- Required [§ 275-	dimensions for parking : 8.C.(4)]	space	
36. 🗶 🗌 🗌	- Required [§ 275-	dimensions for aisle/acc 8.C.(5)]	ess drive	
37. 🗶 🗌 🗌	🗌 - Required	off-street loading spaces	[§ 275-8.C.(6)]	
38. 🗶 🗌 🗌	includir	landscaping for the park ng calculation shown the ment is met [§ 275-8.C.(planting	(refers to active approved plans already on file with Town and State)
39. 🛛 🗌 🗌		screening for visual sepa atible uses [§ 275-8.C.(8		(refers to active approved plans already on file with Town and State)
40. X	with the	accessibility provided in a latest ADA Regulation 8.C.(11)]		(refers to active approved plans already on file with Town and State)
41. X	🗌 - Traffic St	er Management Plan [§ udy, if required [§ 275-9 dy, if required [§ 275-9.).B]	(refers to active approved plans already on file with Town and State)
(Continue nex	t page)			

This checklist is intended to help the applicant and staff to ensure application completeness. Please refer to the regulations on the exact language of each requirement.

Key: Y=Yes	P=Pending W	/=Waiver Request	NA=Not Applic	able (please explain)
$\underline{Y} \underline{P} \underline{W}$	NA			Notes
44. X □ □ 45. X □ □ 46. X □ □ 47. X □ □	 Utility Study Copies of any covenants, document p A copy of all 	t Study, if required [§ [§ 275-9.E] y proposed or existing deed restrictions or a pertinent to the Site P applicable Town, sta provals or applications	g easements, ny other similar lan [§ 275-9.F] te, county or	(refers to active approved plans already on file with Town and State) (refers to active approved plans already on file with Town and State)
48. 🗶 🗌 🗌	- Environment [§ 275-9.1]	al Impact Study, if re	quired	(refers to active approved plans already on file with Town and State)
(End of checkl	ist)			



Civil Engineers Structural Engineers Traffic Engineers Land Surveyors Landscape Architects Scientists

TRAFFIC ANALYSIS MEMORANDUM

Date:	10 November 2022
To:	Town of Hudson Planning Department
From:	Robert Duval, PE
	Jen Porter, PE
Project:	HCW Warehouse – 2022 Tenant Update
	Friars Drive, Hudson
Subject:	Traffic Impact Analysis – New Tenant Trip Generation TFM# 16415.16

INTRODUCTION

This memo compares the traffic volumes associated with a High-Cube Warehouse (HCW) on Friars Drive approved by the Hudson Planning Board in 2021, to the traffic associated with operations of a specific tenant that will occupy a portion of a slightly enlarged facility.

The 2021 approved site plan included 504,000 sf of HCW, with the possibility of multiple tenants within the building. The project was approved with the condition that all tenants would have trip generation characteristics typical to High-Cube Warehouses as defined in ITE Land Use Code (LUC) 154. The definition of this LUC does include some space for light manufacturing and office space within the HCW facility.

That proposed tenant will be consolidating their existing facility in Hudson with three other locations, and moving their combined operations to Friars Drive, where they will occupy 397,320 sf of the facility. The operations are consistent with high-cube warehousing use, including some pick-and-pack and light manufacturing operations, and associated office space. The remaining 126,000 sf of the building will also continue to generate trips per ITE LUC 154, consistent with the original approval. Thus trip generation for the facility is calculated as follows:

- 2021 Approved Trip Generation LUC 154 rates per ksf) HCW (multiple tenants) 504,000 sf
- 2022 Proposed Trip Generation LUC 154 rates per ksf)
 Tenant #1 397,320 sf
 <u>Tenant #2 126,000 sf</u>
 Total GSF: 523,320 sf

In the 2021 approved Traffic Study, trip generation was based on LUC 154 rates published by the ITE Trip Generation Manual 10th Edition, and the HCW supplement. Trip rates within the current 11th Edition <u>remain unchanged for LUC 154¹</u>. Tables 1a and 1b below show the results of trip generation based on the 11th edition. Calculations are attached in the Appendix.

¹ However the new definition now clarifies that mezzanine space should not be added to building footprint for trip calculations.

MEMO to Hudson Planning Department Re: Distribution Warehouse, Trip Generation 2022 Update 10 November 2022 Page 2 of 4

2021 Approved ITE Trip Generation Calculations:

The Table below shows the trip generation rates presented and approved in the original traffic study. Table 1a shows total peak hour trips; Table 1b shows the breakdown of cars and trucks within the typical peak hour traffic stream.

Table 1a

2021 Approved Trips			
Land Use	In	Out	Total
504,000 sf HCW Warehouse (LUC 154)			
Weekday AM Peak Hour Adjacent Street	36	14	50
Weekday PM Peak Hour Adjacent Street	16	39	55

Table 1b 2021 Approved Trips – Cars and Trucks

	Cars		Tru	Total	
504,000 sf HCW Warehouse (LUC 154)	In	Out	In	Out	
Weekday AM Peak Hour Adjacent Street	31	9	5	5	50
Weekday PM Peak Hour Adjacent Street	14	36	2	3	55

A sample HCW shift schedule was also presented in Appendix E of the approved Traffic Study to provide further details on distribution of total daily trips and cars versus trucks on an hourly basis associated with HCW operations. That shift schedule is reproduced in the appendix to this memo.

2022 Proposed ITE Trip Generation Calculations:

To accommodate the specific needs of Tenant#1, the building footprint has been adjusted and enlarged by about 5% to 523,320 sf. To calculate vehicle trips for the adjusted footprint, the unchanged 11th Edition LUC 154 trip generation rates were used. Tables 2a and 2b show the results below.

Table 2a

2022 Proposed Trips						
Land Use	In	Out	Total			
523,320 sf HCW Warehouse (LUC 154)						
Weekday AM Peak Hour Adjacent Street	37	15	52			
Weekday PM Peak Hour Adjacent Street	24	33	57			

2022 Proposed Trips – Cars and Trucks							
	Cars		Trucks		Total		
523,320 sf HCW Warehouse (LUC 154)	In	Out	In	Out			
Weekday AM Peak Hour Adjacent Street	32	10	5	5	52		
Weekday PM Peak Hour Adjacent Street	15	37	2	3	57		

Table 2b 2022 Proposed Trips – Cars and Trucks

The increased footprint adds only two new passenger vehicle trips during each of the AM and PM peak hours. The new footprint does not materially change trip generation for trucks.

MEMO to Hudson Planning Department Re: Distribution Warehouse, Trip Generation 2022 Update 10 November 2022 Page 3 of 4

2022 Tenant-Specific Trip Generation Calculations:

To confirm the trip generation rates applied above are applicable to the known Tenant #1's operations, we have created a tenant-specific shift schedule based on that tenant's known number of employees and off-peak shift schedule (as required by the Planning Board to avoid the am and pm peak hours of the Lowell Road corridor). This schedule is shown in the appendix.

Table 3a below is based on the proposed Tenant#1 shift schedule, Trip generation for Tenant #2 (the remaining available space) is based on LUC 154 rates published by the current ITE manual (unchanged between 10th and 11th editions).

Table 3a and 3b below and on the following page show the 2022 trip generation for the entire facility. Calculations are attached in the Appendix.

2022 Tenant#1 - Specific Trip Generation						
Land Use	In	Out	Total			
Tenant #1: 397,320 sf HCW Warehouse (employees/shift schedule)						
Weekday AM Peak Hour Adjacent Street	16	0	16			
Weekday PM Peak Hour Adjacent Street	0	1	1			
Tenant #2: 126,000 sf HCW Warehouse (LUC 154)						
Weekday AM Peak Hour Adjacent Street	9	4	13			
Weekday PM Peak Hour Adjacent Street	4	10	14			
Total – 523,320 sf HCW Warehouse						
Weekday AM Peak Hour Adjacent Street	25	4	29			
Weekday PM Peak Hour Adjacent Street	4	11	15			

Table 3a2022 Tenant#1 - Specific Trip Generation

Table 3b
2022 Tenant#1 - Specific Trip Generation – Cars and Trucks

	C	Cars Trucks		cks	Total			
	In	Out	In	Out				
Tenant #1: 397,320 sf HCW Wareh	nouse (empl	oyees/sh	ift schec	lule)				
Weekday AM Peak Hour Adjacent Street	15	0	1	0	16			
Weekday PM Peak Hour Adjacent Street	0	0	0	1	1			
Tenant #2: 126,000 sf HCW Wareh	nouse (LUC	154)						
Weekday AM Peak Hour Adjacent Street	8	2	1	2	13			
Weekday PM Peak Hour Adjacent Street	4	9	0	1	14			
Total 523,320 sf HCW Warehouse with Tenant#1 specific Trips								
Weekday AM Peak Hour Adjacent Street	23	2	2	2	29			
Weekday PM Peak Hour Adjacent Street	4	9	0	2	15			

MEMO to Hudson Planning Department

Re: Distribution Warehouse, Trip Generation 2022 Update

10 November 2022 Page 4 of 4

Comparison: 2021 Approved v 2022	<u>2 Propose</u>	a i rip	S	
Land Use	In	Out	Total	Trucks*
2021 Approved 504,000 sf HCW Warehouse				
Weekday AM Peak Hour Adjacent Street	36	14	50	10
Weekday PM Peak Hour Adjacent Street	16	39	55	5
Proposed 523,320 sf HCW Warehouse				
Weekday AM Peak Hour Adjacent Street	37	15	52	10
Weekday PM Peak Hour Adjacent Street		33	57	5
523,320 sf HCW Warehouse with Tenant#1 spec	ific Trips			
Weekday AM Peak Hour Adjacent Street	25	4	29	4
Weekday PM Peak Hour Adjacent Street	4	11	15	2
*	<i>(</i> ()			

Table 4
Comparison: 2021 Approved v 2022 Proposed Trips

*- represents number of Trucks included within "Total" traffic volume in column to left.

SUMMARY/CONCLUSION

The slightly enlarged facility generates only 2 additional car trips in the am and pm roadway peak hours, and no additional truck trips, based on ITE LUC 154 – High Cube Warehouse.

When the proposed off-peak shift schedule for Tenant#1 is taken into account, the number of trips is substantially reduced during roadway peak hours on Lowell Road for the combined facility, and the number of truck trips within the peak hour is substantially less than the number approved previously by the Planning Board.

We therefore conclude that the conclusions of the original 2021 Traffic Report continue to be applicable to the 523,320 sf facility represented in this Traffic Memorandum.

Respectfully Submitted, **TFMORAN, INC.**

Robert E. Duval, PE Chief Engineer

MEMO to Bedford Planning Department Re: Market & Main, Trip Generation 2022 Update 10 November 2022

<u>Appendix</u>

2022 Updated Trip Generation

• HCW

• Tenant #1 + HCW

2022 Updated Schedules

- Tenant #1
- Tenant #2
- Tenant #1 + #2

2021 Approved Trip Generation

2021 Appendix B Shift Schedule

Meeting Date: 1/11/23

11/01/2022 Tenant #1 Update

P	roposed Trip	Generatio	n - Wareho	use																
ITE Trip Generation Manual, 11th Edition		Setting/Lo	cation: Gener	al Urban/Sub	ourban															
ITE LUC 154 - High-Cube Transload and Short-Term Sto	orage Warehou	se: 523,32	0 sf Gross F	loor Area																
Time Period	Rate	Rate/Equn Rate/ Eq Ti		Rate/Equn		Rate/Equn		Rate/Equn		Rate/Equn		Rate/Equn		Rate/Equn		Trip Ends		Directional Split		tional bution
	X	Rate	Used		In	Out	In	Out												
Weekday AM Peak Hour Adjacent Street - CARS	523.3	0.08	Rate	42	77%	23%	32	10												
Weekday AM Peak Hour Adjacent Street - TRUCKS	523.3	0.02	Rate	10	49%	51%	5	5												
Weekday AM Peak Hour Adjacent Street - TOTAL				52			37	15												
Weekday PM Peak Hour Adjacent Street - CARS	523.3	0.10	Rate	52	28%	72%	15	37												
Weekday PM Peak Hour Adjacent Street - TRUCKS	523.3	0.01	Rate	5	47%	53%	2	3												
Weekday PM Peak Hour Adjacent Street - TOTAL				57			17	40												
Weekday Daily - CARS	523.3	1.40	Rate	733	50%	50%	367	366												
Weekday Daily - TRUCKS	523.3	0.22	Rate	115	50%	50%	58	57												
Weekday Daily - TOTAL				848			425	423												

Proposed Trip Composition 100% Primary Trips

Proposed Trip Generation - Warehouse [TENANT #1]

Per Tenant employee/truck count and shft schedule

Setting/Location: General Urban/Suburban

Time Period		Rate/Equn		Trip Ends	Directional Split		Directional Distribution	
	Х	Rate	Used		In	Out	In	Out
Weekday AM Peak Hour Adjacent Street - CARS				15			15	0
Weekday AM Peak Hour Adjacent Street - TRUCKS				1			1	0
Weekday AM Peak Hour Adjacent Street - TOTAL				16			16	0
Weekday PM Peak Hour Adjacent Street - CARS							0	0
Weekday PM Peak Hour Adjacent Street - TRUCKS				1			0	1
Weekday PM Peak Hour Adjacent Street - TOTAL				1			0	1
Weekday Daily - CARS				402			201	201
Weekday Daily - TRUCKS				16			8	8
Weekday Daily - TOTAL				418			209	209

ITE Trip Generation Manual, 11th Edition		Setting/Log	cation [.] Gener	al Urban/Sul	ourban			
TE LUC 154 - High-Cube Transload and Short-Term Sto	orage Wareho							
Time Period	Rate/Equn Rate/		Rate/ Eq	Trip Ends		tional plit		tional bution
	Х	Rate	Used		In	Out	In	Out
Weekday AM Peak Hour Adjacent Street - CARS	126	0.08	Rate	10	77%	23%	8	2
Weekday AM Peak Hour Adjacent Street - TRUCKS	126	0.02	Rate	3	49%	51%	1	2
Weekday AM Peak Hour Adjacent Street - TOTAL				13			9	4
Weekday PM Peak Hour Adjacent Street - CARS	126	0.10	Rate	13	28%	72%	4	9
Weekday PM Peak Hour Adjacent Street - TRUCKS	126	0.01	Rate	1	47%	53%	0	1
Weekday PM Peak Hour Adjacent Street - TOTAL				14			4	10
				14			7	
Weekday Daily - CARS	126	1.40	Rate	176	50%	50%	88	88

0.22

Rate

28

204

50%

50%

14

102

14

102

126

er Tenant employee/truck count and shft schedule <u>Setting/Location: General Urban/Suburban</u>										
ITE Trip Generation Manual, 11th Edition		-								
Time Period	Rate	Rate/Equn		te/Equn Rate/ Eq		Trip Ends	Directional Split		Directional Distribution	
	x	Rate	Used		In Out		In	Out		
Weekday AM Peak Hour Adjacent Street - CARS				25			23	2		
Weekday AM Peak Hour Adjacent Street - TRUCKS				4			2	2		
Weekday AM Peak Hour Adjacent Street - TOTAL				29			25	4		
Weekday PM Peak Hour Adjacent Street - CARS				13			4	9		
Weekday PM Peak Hour Adjacent Street - TRUCKS				2			0	2		
Weekday PM Peak Hour Adjacent Street - TOTAL				15			4	11		
Weekday Daily - CARS				578			289	289		
Weekday Daily - TRUCKS				44			22	22		
Weekday Daily - TOTAL				622			311	311		

Proposed Trip Composition	
100% Primary Trips	

Weekday Daily - TRUCKS

Weekday Daily - TOTAL

11/10/2022 Tenant #1 Update

		_				
		216	8			
	Total E	Employees	Total Trucks>			
DAILY SHIFT	Employees	Employees	Trucks			
SCHEDULE	1st Shift	2nd Shift	All Shifts	<u>Totals</u>	<u>Trips/hr</u>	
OUNEDOLL	5:00a - 3:30p	3:30p - 2:00a	6a - 7p	<u> </u>		
	<u>In</u> Out	<u>In</u> Out	<u>In</u> Out	<u>In Out</u>		
12:00M - 1:00AM				0 0	0	
1:00AM - 2:00AM				0 0	0	
2:00AM - 3:00AM		71		0 71	71	
3:00AM - 4:00AM				0 0	0	
4:00AM - 5:00AM	<u>130</u>			130 0	130	<- AM Peak of Generator
5:00AM - 6:00AM				0 0	0	
6:00AM - 7:00AM			<u>1</u>	1 0	1	
7:00AM - 8:00AM	<u>15</u>		<u>1</u>	16 0	16	<- Roadway Peak*
8:00AM - 9:00AM			<u>1</u>	1 0	1	
9:00AM - 10:00AM			<u>1</u> 1	1 1	2	
10:00AM - 11:00AM			<u>1</u> 1	1 1	2	
11:00AM - 12:00N			<u>1</u> 1	1 1	2	
12:00N - 1:00PM			<u>1</u> 1	1 1	2	
1:00PM - 2:00PM			<u>1</u> 1	1 1	2	
2:00PM - 3:00PM			1	0 1	1	
3:00PM - 4:00PM	130	<u>71</u>	1	71 131	202	<- PM Peak of Generator
4:00PM - 5:00PM			1	0 1	1	<- Roadway Peak*
5:00PM - 6:00PM	15			0 15	15	
6:00PM - 7:00PM				0 0	0	
7:00PM - 8:00PM				0 0	0	
8:00PM - 9:00PM				0 0	0	
9:00PM - 10:00PM				0 0	0	
10:00PM - 11:00PM				0 0	0	
11:00PM - 12:00M				0 0	0	
	<u>145</u> 145	<u>71</u> 71	<u>8</u> 8	224 224	448	= Daily Trips

TRIP GENERATION SUMMARY: HUDSON FRIARS ROAD WAREHOUSE BUILDING [TENANT #1] (397.320 SF Warehouse)

Meeting Date: dV1eh23, Hudson NH

11/03/2022 Tenant #1 Update

(126,000 SF High-Cube Transload and Short-Term Storage Warehouse)											
		14 < Total Trucks>									
	<>										
DAILY SHIFT	Office Emp	Office Emp	Office Emp	Warehouse Emp	Warehouse Emp	Warehouse Emp	Trucks				
SCHEDULE	1st Shift	2nd Shift	3rd Shift	1st Shift	2nd Shift	3rd Shift	All Shifts	Tota	als	<u>Trips/hr</u>	• •
OUNEDOLL	7a - 4p/8a - 5p	4p - 12:30a	12:30a - 7a	6a - 2:30p	2:30p - 11p	11p - 6a	6a - 7p				
	<u>In</u> Out	<u>In</u> Out	<u>In</u> Out	<u>In</u> Out	<u>In</u> Out	<u>In</u> Out	<u>In</u> Out	<u>ln</u> 2	<u>Out</u> 4		
12:00M - 1:00AM		4	<u>2</u>					2	4	6	
1:00AM - 2:00AM								0	0	0	
2:00AM - 3:00AM								0	0	0	
3:00AM - 4:00AM								0	0	0	
4:00AM - 5:00AM								0	0	0	
5:00AM - 6:00AM				<u>36</u>				36	0	36	<- AM Peak of Generator
6:00AM - 7:00AM	<u>5</u>					16		5	16	21	
7:00AM - 8:00AM	<u>3</u>		2				<u>1</u>	4	2	6	<- Roadway Peak*
8:00AM - 9:00AM							<u>1</u> 1	1	1	2	
9:00AM - 10:00AM							<u>2</u> 1	2	1	3	
10:00AM - 11:00AM							<u>2</u> 2	2	2	4	
11:00AM - 12:00N							<u>2</u> 2	2	2	4	
12:00N - 1:00PM							<u>1</u> 2	1	2	3	
1:00PM - 2:00PM							<u>1</u> 1	1	1	2	
2:00PM - 3:00PM				36	<u>22</u>		<u>1</u> 1	23	37	60	<- PM Peak of Generator
3:00PM - 4:00PM		<u>4</u>					<u>1</u> 1	5	1	6	
4:00PM - 5:00PM	5						<u>1</u> 1	1	6	7	<- Roadway Peak*
5:00PM - 6:00PM	3						<u>1</u> 1	1	4	5	
6:00PM - 7:00PM							1	0	1	1	
7:00PM - 8:00PM								0	0	0	
8:00PM - 9:00PM								0	0	0	
9:00PM - 10:00PM								0	0	0	
10:00PM - 11:00PM						<u>16</u>		16	0	16	
11:00PM - 12:00M					22			0	22	22	
	<u>8</u> 8	<u>4</u> 4	<u>2</u> 2	<u>36</u> 36	<u>22</u> 22	<u>16</u> 16	<u>14</u> 14	102	102	204	= Daily Trips

TRIP GENERATION SUMMARY: HUDSON FRIARS ROAD WAREHOUSE BUILDING [TENANT #2]

3 of 3

TRIP GENERATION SUMMARY:

HUDSON FRIARS ROAD WAREHOUSE BUILDING [TENANT: #1+ #2]

(523,320 SF Warehouse Footprint)											
	-)4		22							
		nployees >		Trucks>							
DAILY SHIFT		oyees		icks							
SCHEDULE		Shifts		Shifts	Tot	<u>tals</u>	<u>Trips/h</u>	<u>.</u>			
CONEDULE	12a - 1	11:59p	6a	- 7p							
	<u>ln</u>	Out	<u>ln</u>	Out	<u>In</u>	<u>Out</u>					
12:00M - 1:00AM	<u>2</u>	4	<u>0</u>	0	2	4	6				
1:00AM - 2:00AM	<u>0</u>	0	<u>0</u>	0	0	0	0				
2:00AM - 3:00AM	<u>0</u>	71	<u>0</u>	0	0	71	71				
3:00AM - 4:00AM	<u>0</u>	0	<u>0</u>	0	0	0	0				
4:00AM - 5:00AM	<u>130</u>	0	<u>0</u>	0	130	0	130	<- AM Peak of Generator			
5:00AM - 6:00AM	<u>36</u>	0	<u>0</u>	0	36	0	36				
6:00AM - 7:00AM	<u>5</u>	16	<u>1</u>	0	6	16	22				
7:00AM - 8:00AM	<u>18</u>	2	<u>2</u>	0	20	2	22	<- Roadway Peak*			
8:00AM - 9:00AM	<u>0</u>	0	<u>2</u>	1	2	1	3				
9:00AM - 10:00AM	<u>0</u>	0	<u>3</u>	2	3	2	5				
10:00AM - 11:00AM	<u>0</u>	0	<u>3</u>	3	3	3	6				
11:00AM - 12:00N	<u>0</u>	0	<u>3</u>	3	3	3	6				
12:00N - 1:00PM	<u>0</u>	0	<u>2</u>	3	2	3	5				
1:00PM - 2:00PM	<u>0</u>	0	<u>2</u>	2	2	2	4				
2:00PM - 3:00PM	<u>22</u>	36	<u>1</u>	2	23	38	61				
3:00PM - 4:00PM	<u>75</u>	130	<u>1</u>	2	76	132	208	<- PM Peak of Generator			
4:00PM - 5:00PM	<u>0</u>	5	<u>1</u>	2	1	7	8	<- Roadway Peak*			
5:00PM - 6:00PM	<u>0</u>	18	<u>1</u>	1	1	19	20				
6:00PM - 7:00PM	<u>0</u>	0	<u>0</u>	1	0	1	1				
7:00PM - 8:00PM	<u>0</u>	0	<u>0</u>	0	0	0	0				
8:00PM - 9:00PM	<u>0</u>	0	<u>0</u>	0	0	0	0				
9:00PM - 10:00PM	<u>0</u>	0	<u>0</u>	0	0	0	0				
10:00PM - 11:00PM	<u>16</u>	0	<u>0</u>	0	16	0	16				
11:00PM - 12:00AM	0	22	0	0	0	22	22				
	<u>304</u>	304	<u>22</u>	22	326	326	652	= Daily Trips			

Page 14 of 37

5. Trip Generation:

The facility that is proposed in this report conforms to the classification known as "High-Cube Transload/Short-Term Storage Warehouse" Land Use Code (LUC) 154. ITE has issued an updated 2020 supplement to the 10th Edition Trip Generation Manual¹ that includes a separate calculation of car and truck trips for this warehouse use. Calculations from the supplement are included in Appendix A and tabulated in the table below.

A typical LUC 154 HCW operates on a 24-hour/three shift schedule with office and warehouse employees and truck arrivals and departures distributed throughout the day, generally outside of roadway peak hours. Common shift changes occur at 7am, 4pm, and 1230am. Using this shift pattern places arrivals and departures of most employees outside of adjacent roadway peak hours. A generally even distribution of trucking arrivals and departures is commonly anticipated.

Table 1 below presents total trip generation (cars and trucks) from the ITE supplement:

Trip Generation – per ITE Supplement									
Land Use	In	Out	Total						
Proposed 504,000 sf Distribution Warehouse (LUC 154)									
Weekday AM Peak Hour Adjacent Street	36	14	50						
Weekday PM Peak Hour Adjacent Street	16	39	55						

Table 1

Although, trucking schedules tend to avoid peak hour traffic, we have carried the distribution of trucks per ITE shown below. Table 2 shows a breakdown of car and truck volume calculations:

Trip Generation – Cars vs Trucks									
Cars Trucks									
	In	Out	In	Out					
Weekday AM Peak Hour Adjacent Street	31	9	5	5					
Weekday PM Peak Hour Adjacent Street	14	36	2	3					

Table 2

6. Trip Generation vs Parking – Distribution Center:

A typical shift schedule base on the High-Cube Transload and Short-Term Storage Warehouse use shows the need for at least 265 parking spaces. The sample shift schedule is outlined in Appendix B. The current plan shows 362 parking spaces.

7. Holiday Trip Generation:

Although some types of warehouses (e.g. "fulfillment centers" and "parcel hub distribution centers") show substantially increased holiday traffic, the proposed facility does not show this marked seasonal increase, and the increase of truck traffic during the holiday season is modest.

¹ Trip Generation Manual, Institute of Transportation Engineers (ITE), 10th Edition Supplement, February 2020.

Meeting Date: 1/11/23

Traffic Impact and Access Study Re: Proposed Distribution Warehouse Friars Drive, Hudson NH

SP #15-21 - Friars Drive Industrial Facility - Attachment A

September 7, 2021

APPENDIX B



Meeting Date: 1/1-1/23

8/31/2021

(500,000 SF High-Cube Transload and Short-Term Storage Warehouse)											
			3	56							
	<		Total E	mployees		>	< Total Trucks>				
DAILY SHIFT	Office Emp	Office Emp	Office Emp	Warehouse Emp		Warehouse Emp	Trucks				
SCHEDULE	1st Shift	2nd Shift	3rd Shift	1st Shift	2nd Shift	3rd Shift	All Shifts	Tota	als	<u>Trips/hr</u>	
OUNEDOLL	7a - 4p/8a - 5p	4p - 12:30a	12:30a - 7a	6a - 2:30p	2:30p - 11p	11p - 6a	6a - 9p				
	<u>In</u> Out	<u>In</u> Out	<u>In</u> Out	<u>In</u> Out	<u>In</u> Out	<u>In</u> Out	<u>In</u> Out	<u>In</u>	<u>Out</u> 8		
12:00M - 1:00AM		8	<u>4</u>					4		12	
1:00AM - 2:00AM								0	0	0	
2:00AM - 3:00AM								0	0	0	
3:00AM - 4:00AM								0	0	0	
4:00AM - 5:00AM								0	0	0	
5:00AM - 6:00AM				<u>140</u>				140	0	140	<- AM Peak of Generator
6:00AM - 7:00AM	<u>10</u>					60	<u>5</u>	15	60	75	
7:00AM - 8:00AM	<u>6</u>		4				<u>5</u> 5	11	9	20	<- Roadway Peak*
8:00AM - 9:00AM							<u>5</u> 5	5	5	10	
9:00AM - 10:00AM							<u>5</u> 5	5	5	10	
10:00AM - 11:00AM							<u>5</u> 5	5	5	10	
11:00AM - 12:00N							<u>4</u> 2	4	2	6	
12:00N - 1:00PM							<u>5</u> 5	5	5	10	
1:00PM - 2:00PM							<u>5</u> 5	5	5	10	
2:00PM - 3:00PM				140	<u>125</u>		<u>5</u> 5	130	145	275	<- PM Peak of Generator
3:00PM - 4:00PM		<u>8</u>					<u>5</u> 5	13	5	18	
4:00PM - 5:00PM	10						<u>2</u> 3	2	13	15	<- Roadway Peak*
5:00PM - 6:00PM	6						<u>5</u> 5	5	11	16	
6:00PM - 7:00PM							5	0	5	5	
7:00PM - 8:00PM								0	0	0	
8:00PM - 9:00PM								0	0	0	
9:00PM - 10:00PM								0	0	0	
10:00PM - 11:00PM						<u>60</u>		60	0	60	
11:00PM - 12:00M					125			0	125	125	
	<u>16</u> 16	<u>8</u> 8	<u>4</u> 4	<u>140</u> 140	<u>125</u> 125	<u>60</u> 60	<u>56</u> 55	409	408	817	= Daily Trips

TRIP GENERATION SUMMARY: HUDSON FRIARS ROAD DISTRIBUTION BUILDING

NOTES:

- Assume Two (2) Tenants

- All trucks originate from offsite.

• Truck trailer storage at the site, no fleet parking

- Largest Shift Change overlap is Warehouse 1st to 2nd shift between 2pm-3pm: 125 (in) + 140 (out) = 265

* Lower Truck percentage is typ. due to truck operations scheduled to avoid peak periods.

Hudson Article II Traffic Regulations: Section 317-13 Trucks, commercial vehicles and heavy vehicles

No commercial truck traffic shall be permitted, except by special permit issued by the Town of Hudson, on any road in the Town of Hudson before 6:00 a.m. and after 7:00 p.m., unless otherwise specified under Subsection F, except on Route 111, Route 102, Route 3A and West Road.



November 15, 2022

Mr. Brian Groth Town Planner Town of Hudson 12 School Street Hudson, NH 03051

Re: Town of Hudson Planning Board Review Friars Drive Industrial Facility Amended Site Plan, 48 Friars Drive Tax Map 209 Lot 1; Acct. #1350-975 Reference No. 20030249.2060

Dear Mr. Groth:

Fuss & O'Neill (F&O) has reviewed the submission of the materials received on November 1, 2022, related to an amended site plan for the above-referenced project. A list of items reviewed is enclosed. The scope of our review is based on the Site Plan Review Codes, Stormwater Codes, Driveway Review Codes, Sewer Use Ordinance 77, Zoning Regulations, and criteria outlined in the CLD Consulting Engineers Proposal approved September 16, 2003, revised September 20, 2004, June 4, 2007, September 3, 2008, and October 2015.

The project consists of the development of a 504,000 square foot footprint (523,320 square feet with interior 2nd story office space) industrial/warehouse building project on a previously undeveloped site. Improvements to the site also include the construction of a driveway, parking areas, drainage improvements, landscaping, lighting and other associated site improvements. The proposed building will be serviced by public water and sewer.

The current amended site plan includes revisions to truck loading docks, parking, and landscape areas to accommodate a tenant that will lease 75% of the facility. This project was previously reviewed by Fuss & O'Neill with our most recent letter dated January 19, 2022. Outstanding comments from that letter and their resolution are included below. Comments that had been previously addressed/closed are not included in this letter.

50 Commercial Street Manchester, NH 03101 t 603.668.8223 800.286.2469

www.fando.com

California Connecticut Maine Massachusetts New Hampshire Rhode Island

1. Site Plan Review Codes (HR 275)

- a. HR 275-8.C.(2) and Zoning Ordinance (ZO) 334-15.A. The applicant has revised the plan set to add 70 parking spaces for a total of 436 parking spaces. We note that the applicant had previously stated that the maximum employee count would be controlled by the building owner at 241 employees per shift to meet the 366 spaces previously provided. The applicant has noted in the traffic analysis that a total of 289 employees (both tenants, all shifts) are anticipated, so there will be adequate parking available.
- b. HR 275-8.C.(6). The applicant had previously noted that 51 loading spaces are required for the site. We note with the additional square footage, 53 spaces are now required, and the applicant has provided more loading spaces than are required. The applicant should check the total indicated in the addendum table on sheet 2, as the number shown on the plan appears to be 73 or 74, not the 66 noted in the table.

Vermont F:\Proj2003\030249 Hudson\Site\2060 Friars Drive Industrial Facility\Amended Site Plan - 5th Review\206 Friars Drive Industrial Facility Letter5 11xx22.Docx © 2021 Fuss & O'Neill, Inc



Mr. Brian Groth November 15, 2022 Page 2 of 6

c. HR 275-9.C.(11). The applicant has provided twelve handicap spaces for the site which exceeds the nine spaces now required.

2. Administrative Review Codes (HR 276)

- a. HR 276-11.1.B.(6). The owner's signature is not shown on the plan set; however, a location has been shown on the plans for it to be added.
- b. HR 276-11.1.B.(13). The applicant has not included details for any proposed site signage. The applicant has shown a wall sign on the building but no details or dimensions were provided.

3. Driveway Review Codes (HR 275-8.B. (34)/Chapter 193)

a. The applicant has not shown any changes to the proposed driveway.

4. Traffic

a. HR 275-9.B. We have reviewed the trip generation analysis memo prepared by TFMoran (TFM) dated October 21, 2022, for the proposed High-Cube Warehouse (HCW) building at 48 Friars Drive in Hudson, New Hampshire. The analysis includes a comparison of the traffic generated with a High-Cube Warehouse previously approved by the Hudson Planning Board in 2021 with the operations of a specific tenant that will occupy a 75% portion of the slightly enlarged facility. The previously approved site plan included 504,000 square feet of HCW, with the condition that all tenants would have trip generation characteristics typical of the HCW land use code described in the ITE Trip Generation Manual (Land Use Code 154). As part of the new traffic analysis, the proposed tenant for the site will occupy 397,320 square feet of the HCW facility and will generate trips based on empirical data provided by the tenant, while the remaining 126,000 square feet of the building is assumed to generated trips per ITE Land Use Code 154, consistent with the original approval.

The procedures that the TFM report uses are reasonable, with appropriate ITE trip generation information as well as empirical data from the tenant of the proposed HCW building used for the scenario provided. This trip generation information shows that the estimated magnitude of the increase in peak hour traffic volumes related to the updated site development are on the order of 14 trips during the weekday morning peak hour and 15 trips during the weekday evening peak hour. Most of the trips generated by the proposed HCW building are expected to be during off-peak hours, as the tenant of the proposed building has agreed to set their shift schedules to avoid the peak hours of the Lowell Road corridor as stated in the analysis.



Mr. Brian Groth November 15, 2022 Page 3 of 6

However, while the analysis assumes the adjacent roadway peak hour to be between 4:00PM - 5:00PM, 208 trips are expected to be generated around the time of the 3:30PM shift change. According to the most recent counts taken at Count Station 82229073 on Lowell Road in August of 2020, which are available on the NHDOT Transportation Data Management website, the weekday evening peak hour along Lowell Road appears to be between 3:00PM - 4:00 PM for each weekday that counts were taken. We note that these counts were conducted two years ago and were during the height of the pandemic, but if the peak hour put forth by these counts is still accurate, adding 208 trips may have impacts on the adjacent roadway network.

According to the described count data, the difference in vehicles between the 3:00PM – 4:00PM and 4:00PM – 5:00PM hours is also not very large, suggesting that either hour may have similar impacts if adding 208 trips to the network. We suggest verifying this information. If it is agreed that the additional 208 trips to the network may have some impacts on the roadway network, we suggest considering further analysis of the project impacts or adjusting the weekday afternoon shift change timing to be during actual off-peak hours or off-peak hours with noticeably less traffic than the actual peak hour.

We agree that there will be minimal impacts on the adjacent roadway network during the weekday morning peak hour as a result of the HCW development, but we believe the weekday evening peak hour should ultimately be looked at more closely.

5. Utility Design/Conflicts

- a. The applicant has not proposed any changes to the site utility locations or sizes on the amended plan set.
- b. HR 275-9.E. The applicant has included sewer flow calculations for the facility that appear to be from their original NHDES sewer connection permit. The applicant has provided updated sewer flow calculations to the Town of Hudson to correspond to the number of employees for the proposed tenant and the other tenant space. The sewer allocation for this facility will be reviewed and approved by the Town Engineer.
- c. HR 275-9.G. The site will be connected to the municipal sewer system. As required by the Hudson Sewer Use Ordinance, if there is a manufacturing use at the facility the industry must complete an Industrial Pretreatment Permit application. This is not a requirement for site plan approval, but will be required prior to issuance of a certificate of occupancy. The applicant should coordinate with the Town to complete the Sewer Permit Application Screening Questionnaire/Checklist.

6. Drainage Design/Stormwater Management (HR 275-9.A./Chapter 290)

a. HR 275-9.A.1 & 290-5 The applicant provided a written reasonable explanation for a reduction of impervious area and an increase in pervious area with this site plan amendment. The applicant should coordinate with the Town if a waiver is required from submitting drainage calculations to meet the Regulations.



Mr. Brian Groth November 15, 2022 Page 4 of 6

- b. HR 275-9.A.1 & 290-5. The applicant should review the grading on the large new parking area "Landscape Parking Lot C1" in the southwest of the lot shown on the Addendum Grading Plan Sheet 5. The 162.0 contour appears to cross itself and create an "X" to the left of CB-C9. The new parking spaces also appear to be within the 4.0% to 5.0% slope range between the 160 contour and the 161 contour near CB-C9. That slope may lead to car doors opening faster and denting adjacent vehicles.
- c. HR 290-6. The applicant has not included erosion and sediment control information with the amended site plans, including but not limited to: locations of perimeter controls, location of stockpiles, catch basin inlets, loam and seed details, winter stabilization notes, etc. The applicant should ensure all erosion control measures and information detailed in the original site plan drawings are incorporated into the amended site plan during construction.
- d. HR 290-8.A.10.A. The applicant should coordinate with NHDES and provide documentation to the Town showing that an amended AoT permit is not required.

7. Zoning (ZO 334)

a. No comments at this time.

8. Erosion Control/Wetland Impacts

a. The Town of Hudson should reserve the right to require any additional erosion control measures as needed.

9. Landscaping (HR 275-8.C.(7) & 276-11.1.B.(20)) and Lighting (HR 276-11.1.B.(14))

- a. HR 275-8.C.(7). The applicant has met the landscaping requirements for parking lot areas. We note that some lots are single access lanes and therefore exempt, however, the applicant met the requirements in those lots as well.
- b. HR 276-11.1.B.(14). The applicant has not shown any revisions to the proposed site lighting fixture locations on the plans. We note that light poles were not shown on the revised plans to review for any conflicts.

10. State and Local Permits (HR 275-9.G.)

- a. HR 275-9.G. The applicant has not listed required permits and their statuses on the amended plan set.
- b. HR 275-9.G. The applicant did not provide copies of any applicable Town, State or Federal approvals or permits in the review package.
- c. Additional local and state permitting may be required, including for the proposed underground propane storage tanks.

11. Other

a. We note that the amended plans provided do not stand alone as a plan set. The amended plans should be incorporated into the approved plan set for construction, and the applicant should coordinate with the Town for appropriate approval/filing copies. We note that the amended plans do not have legends, north arrows, or details.



Mr. Brian Groth November 15, 2022 Page 5 of 6

b. The applicant should provide a detail for the new brick areas shown on the plan set. We note that a brick detail was no provided on the original plan set.

The following items were outstanding issues from the previous review:

1. Site Plan Review Codes (HR 275)

- New Fuss & O'Neill Comment: HR 275-6.T. The applicant has forwarded concept plans for off-site improvements adjacent to Lowell Road at the Friars Drive intersection. Review of those plans will be performed separately once design drawings have been received from the applicant.
 Former/Current Fuss & O'Neill Comment: The applicant has provided off-site improvements plans for review. Comments are provided below.
- i. **Former/Current Fuss & O'Neill Comment:** HR 275-6.T. The applicant has shown an easement right-of-way for the improvements. We note that the relocated utility pole is outside of that easement. The applicant should review the need for a separate utility easement for the pole and anchor.
- j. Former Fuss & O'Neill Comment: HR 275-6.T. The applicant should review the need to relocate CB-13 against the proposed curb line. The current layout appears to put the catch basin in the wheel path of vehicles.

Current Fuss & O'Neill Comment: The applicant as revised the catch basin to be a manhole and added a new catch basin along the cub line. No further Fuss & O'Neill comment.

k. Former/Current Fuss & O'Neill Comment: HR 275-6.T. The applicant did not include the off-site improvements within the site plan set. We note that if it is meant to be a standalone plan then details should be added for the pavement, curb and utility relocations.

The following items required Town evaluation or input from our previous review:

6. Drainage Design/Stormwater Management (HR 275-9.A./Chapter 290)

u. Former Fuss & O'Neill Comment: Engineering Technical Guidelines and Typical Details (ETGTD) Section 930.13. Although this is not a public roadway cut section, due to some areas of significant cut upon the site (in the range of 10'-15'), the applicant should review the need for underdrain to help prolong the life of the pavement, drainage system, and building structures. The applicant should also comment on how this ground water, soon to be surface stormwater, is accounted for within the drainage calculations.

Current/Former Fuss & O'Neill Comment: The applicant should keep the Town informed with any findings the geotechnical engineer uncovers during their evaluation. The suggestion of the addition of notes/locations of any future underdrains be placed onto the plans with tie-in information into catch basins, is an appropriate approach.

SP #15-21 - Friars Drive Industrial Facility - Attachment B



Mr. Brian Groth November 15, 2022 Page 6 of 6

Please feel free to call if you have any questions.

Very truly yours,

theph

Steven W. Reichert, P.E.

SWR:

Enclosure

cc: Town of Hudson Engineering Division – File The Dubay Group – karl@thedubaygroup.com



The Dubay Group, Inc.

136 Harvey Rd Bldg B101 Londonderry, NH 03053 603-458-6462 thedubaygroup.com

MEMORANDUM

To:	Brian Groth	Date:	November 16, 2022
From:	Karl Dubay	Re:	48 Friars Drive Site Plan Addendum Confirmation of Review Comments

Below please find our responses to the Town Engineer's review email comments from 11/01:

1. <u>Applicant shall provide a comparison / breakdown of staff of the approved site plan and the current</u><u>one.</u>

The approved site plan was based on two speculative Tenants A & B with an estimated employee count of 353 employees over three shifts in a 24-hr. period. The estimated number of employees was based upon ITE LUC 154 data for 504,000 square feet of high cube warehouse. The proposed site plan includes approximately 19,320 square feet of new, second story office space increasing the total area to 523,320 square feet. Utilizing the same ITE LUC 154 data for the increased area, the total number of employees increased to 366.

Actual employee data for Tenant A (Life is Good) of approximately 216 employees over two shifts is projected for that area. The remaining 126,000 square feet remains a speculative Tenant B and we have estimated approximately 88 employees over three shifts again utilizing ITE LUC 154 data. The comparison of employee counts from the approved plan and the revised plan based upon usage data is 353 employees to the now 304.

2. Applicant shall provide detailed information regarding water demands related to staff:

Refer to Items #3 and #4 below. Water demands consist of employee-related sewer (no process water use) and fire suppression. Both are reduced flows or consistent with the original engineering assumptions for the approved project.

3. <u>Applicant shall provide detailed information regarding sewer demands and revised state permits /</u> <u>full breakdown of square footage and number of employees:</u>

The sewer permit in place included approximately 1,395 employees over three shifts and flows of 21,400 GPD. These flows were conservative at the time due to the unknown tenant needs at original permitting. Our revised sewer demands are based on approximately 350 employees, which allows for future growth and a reasonable placeholder expectation for Tenant B. These flows are now reduced by 16,400 to 5,000 GPD, and have been approved by the Town Engineer and NHDES.

4. Applicant shall provide full design of the water system, including fire suppression/storage tank:

Applicant has filed the design parameters of water system, including fire suppression and storage tank sizing modeling to Town engineer and peer reviewer, Weston & Sampson for further review.

5. <u>This application shall be subject to Town of Hudson water consultant review</u>

Refer to Item #4 above.

6. <u>Applicant shall comply with the Hudson Engineering construction specifications and standards,</u> <u>including water and sewer.</u>

Acknowledged, the approved plans include these specification references.

7. <u>All the above items shall be submitted and approved prior to Engineering recommendation to PB for</u> <u>approval.</u>

Acknowledged and in process.

8. <u>Applicant shall provide a detailed comparison / breakdown of staff and trips of the approved site plan and the current one, related to the traffic study</u>

The approved site plan from 2021 included a 504,000 SF high-cube, short term storage facility, ITE LUC 154. Based on the size of the building, ITE LUC 154 predicts 50 trips in the AM roadway peak hour, and 55 trips in the PM roadway peak hour.

The new site plan includes a 523,320 SF facility, that would generate 52 AM peak hour trips, and 57 trips in the PM roadway peak hour.

In the original study we also looked at total trips across the day, based on typical HCW shift schedules. In that study, a total of 353 employees was spread over three shifts, along with 56 trucks. In the course of a day therefore, 353 employees and 56 trucks entered and exited the site for a total of 818 daily trips (706 cars and 112 trucks).

The revised site plan is based on a 523,320 SF, high-cube, short term storage facility, ITE LUC 154. Utilizing ITE LUC 154 data, the estimated employees for two speculative tenants would be approximately 366 employees over three shifts and 58 trucks in and out of the site. Thus the total estimated daily trips equals 849 trips which includes 733 employee car trips and 116 truck trips.

In the revised site plan, because Tenant A is now known, we can base their daily traffic on an empirical shift schedule provided by the Tenant: Life is Good has 201 warehouse employees over two shifts and approximately 15 office employees that work a traditional office hours work schedule, for a total of 216 employees. Tenant A also expects an average of 8 trucks a day based on their existing warehouse operations throughout the region. Thus, Tenant A will generate 448 trips per day (432 cars and 16 trucks).

Because Tenant B remains unknown at this point, we based traffic volumes for the remaining 126,000 sf on LUC 154, resulting in approximately 88 employees over three shifts, and 14 trucks per day, for a total of 204 daily trips (176 cars and 28 trucks) due to Tenant B. Thus, the total number of employees for the revised site plan (Tenant A plus Tenant B) would be 304 employees, with 22 trucks entering and exiting per day. Since the original approval included a daily total of 353 employees and 56 trucks, the current proposal resents a reduction in both cars and trucks. Please refer to the Traffic Analysis Memorandum dated November 10, 2022 attached hereto for further details.

SP #15-21 - Friars Drive Industrial Facility - Attachment D



The Dubay Group, Inc.

136 Harvey Rd Bldg B101 Londonderry, NH 03053 603-458-6462 thedubaygroup.com

MEMORANDUM

To:	Brian Groth	Date:	November 29, 2022
From:	Karl Dubay	Re:	48 Friars Drive Site Plan Addendum Confirmation of F&O Review Comments

Here are our confirmatory responses to the F&O review comments from 11/15:

- 1. Site Plan Review Codes (HR 275)
 - a. HR 275-8.C.(2) and Zoning Ordinance (ZO) 334-15.A. The applicant has revised the plan set to add 70 parking spaces for a total of 436 parking spaces. We note that the applicant had previously stated that the maximum employee count would be controlled by the building owner at 241 employees per shift to meet the 366 spaces previously provided. The applicant has noted in the traffic analysis that a total of 289 employees (both tenants, all shifts) are anticipated, so there will be adequate parking available. (No further action required.)
 - b. HR 275-8.C.(6). The applicant had previously noted that 51 loading spaces are required for the site. We note with the additional square footage, 53 spaces are now required, and the applicant has provided more loading spaces than are required. The applicant should check the total indicated in the addendum table on sheet 2, as the number shown on the plan appears to be 73 or 74, not the 66 noted in the table. **The total 48-inch final dock count on the table will be updated to the plan addendum (73).**
 - c. HR 275-9.C.(11). The applicant has provided twelve handicap spaces for the site which exceeds the nine spaces now required. (No further action required.)
- 2. Administrative Review Codes (HR 276)
 - a. HR 276-11.1.B.(6). The owner's signature is not shown on the plan set; however, a location has been shown on the plans for it to be added. **The owner's signature is now included.**
 - b. HR 276-11.1.B.(13). The applicant has not included details for any proposed site signage. The applicant has shown a wall sign on the building but no details or dimensions were provided. Tenant wall and freestanding signage would be via a standard sign permit application and review process, the approved plans of record refer to that procedure. The building signage has been removed and the wall and freestanding signage will be applied through the standard site permit application and review process, as detailed on the approved plans of record.
- 3. Driveway Review Codes (HR 275-8.B. (34)/Chapter 193)

SP #15-21 - Friars Drive Industrial Facility - Attachment D

a. The applicant has not shown any changes to the proposed driveway. (No further action required.)

4. Traffic

a. HR 275-9.B. We have reviewed the trip generation analysis memo prepared by TFMoran (TFM) dated October 21, 2022, for the proposed High-Cube Warehouse (HCW) building at 48 Friars Drive in Hudson, New Hampshire. The analysis includes a comparison of the traffic generated with a High-Cube Warehouse previously approved by the Hudson Planning Board in 2021 with the operations of a specific tenant that will occupy a 75% portion of the slightly enlarged facility. The previously approved site plan included 504,000 square feet of HCW, with the condition that all tenants would have trip generation characteristics typical of the HCW land use code described in the ITE Trip Generation Manual (Land Use Code 154). As part of the new traffic analysis, the proposed tenant for the site will occupy 397,320 square feet of the HCW facility and will generate trips based on empirical data provided by the tenant, while the remaining 126,000 square feet of the building is assumed to generated trips per ITE Land Use Code 154, consistent with the original approval.

The procedures that the TFM report uses are reasonable, with appropriate ITE trip generation information as well as empirical data from the tenant of the proposed HCW building used for the scenario provided. This trip generation information shows that the estimated magnitude of the increase in peak hour traffic volumes related to the updated site development are on the order of 14 trips during the weekday morning peak hour and 15 trips during the weekday evening peak hour. Most of the trips generated by the proposed HCW building are expected to be during off-peak hours, as the tenant of the proposed building has agreed to set their shift schedules to avoid the peak hours of the Lowell Road corridor as stated in the analysis.

However, while the analysis assumes the adjacent roadway peak hour to be between 4:00PM – 5:00PM, 208 trips are expected to be generated around the time of the 3:30PM shift change. According to the most recent counts taken at Count Station 82229073 on Lowell Road in August of 2020, which are available on the NHDOT Transportation Data Management website, the weekday evening peak hour along Lowell Road appears to be between 3:00PM – 4:00 PM for each weekday that counts were taken. We note that these counts were conducted two years ago and were during the height of the pandemic, but if the peak hour put forth by these counts is still accurate, adding 208 trips may have impacts on the adjacent roadway network.

According to the described count data, the difference in vehicles between the 3:00PM – 4:00PM and 4:00PM – 5:00PM hours is also not very large, suggesting that either hour may have similar impacts if adding 208 trips to the network. We suggest verifying this information. If it is agreed that the additional 208 trips to the network may have some impacts on the roadway network, we suggest considering further analysis of the project impacts or adjusting the weekday afternoon shift change timing to be during actual off-peak hours or off-peak hours with noticeably less traffic than the actual peak hour.

We agree that there will be minimal impacts on the adjacent roadway network during the weekday morning peak hour as a result of the HCW development, but we believe the weekday evening peak hour should ultimately be looked at more closely.

Please refer to the Traffic Engineer's response memo included with this memo.

- 5. Utility Design/Conflicts
 - a. The applicant has not proposed any changes to the site utility locations or sizes on the amended plan set. **(No further action required.)**
 - b. HR 275-9.E. The applicant has included sewer flow calculations for the facility that appear to be from their original NHDES sewer connection permit. The applicant has provided updated sewer flow calculations to the Town of Hudson to correspond to the number of employees for the proposed tenant and the other tenant space. The sewer allocation for this facility will be reviewed and approved by the Town Engineer. Amended sewer permit calcs and package application were submitted, then approved by the Town Engineer and WWTF, and also reviewed by NHDES. The amended permit is being issued by NHDES now. The flows were reduced and there are no process/manufacturing flows.
 - c. HR 275-9.G. The site will be connected to the municipal sewer system. As required by the Hudson Sewer Use Ordinance, if there is a manufacturing use at the facility the industry must complete an Industrial Pretreatment Permit application. This is not a requirement for site plan approval, but will be required prior to issuance of a certificate of occupancy. The applicant should coordinate with the Town to complete the Sewer Permit Application Screening Questionnaire/Checklist. **There are no proposed process/manufacturing flows.**
- 6. Drainage Design/Stormwater Management (HR 275-9.A./Chapter 290)
 - a. HR 275-9.A.1 & 290-5 The applicant provided a written reasonable explanation for a reduction of impervious area and an increase in pervious area with this site plan amendment. The applicant should coordinate with the Town if a waiver is required from submitting drainage calculations to meet the Regulations. (The drainage study and calculations on file and approved still apply, no further action required.)
 - b. HR 275-9.A.1 & 290-5. The applicant should review the grading on the large new parking area "Landscape Parking Lot C1" in the southwest of the lot shown on the Addendum Grading Plan Sheet 5. The 162.0 contour appears to cross itself and create an "X" to the left of CB-C9. The new parking spaces also appear to be within the 4.0% to 5.0% slope range between the 160 contour and the 161 contour near CB-C9. That slope may lead to car doors opening faster and denting adjacent vehicles. The 162 grade is flanking a mirrored high ridge via "X", we have added a 162.25 clarifying spot shot at the high ridge end south curb. None of the grades exceed 5% which is certainly industry standard for all parking lots, the specific commented area allows for the drainage to wrap around the curb avoiding puddling and retaining the overall panel grading previously approved.
 - c. HR 290-6. The applicant has not included erosion and sediment control information with the amended site plans, including but not limited to: locations of perimeter controls, location of stockpiles, catch basin inlets, loam and seed details, winter stabilization notes, etc. The applicant should ensure all erosion control measures and information detailed in the original site plan drawings are incorporated into the amended site plan during construction. The construction phase SWPPP Plan and documents are currently active, and via the normal swppp updates on site will be adjusted to reflect the amendments, which still coincide to the erosion control plans. For example, no catch basins were moved, the amendment reduces pavement, and there are no changes to the flows or perimeter construction or controls. The Town always reserves the right to require EC adjustments during their inspections as well.

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- d. HR 290-8.A.10.A. The applicant should coordinate with NHDES and provide documentation to the Town showing that an amended AoT permit is not required. We have contacted the AOT reviewer to acknowledge the addendum, which is pending. As these minor revision areas eliminate interior pavement with no changes to the drainage design or perimeter work, the AOT reviewer would normally recognize the improvement with no further action.
- 7. Zoning (ZO 334)
 - a. No comments at this time. (No further action required.)
- 8. Erosion Control/Wetland Impacts
 - a. The Town of Hudson should reserve the right to require any additional erosion control measures as needed. **Confirmed, refer to Item #6c as well.**
- 9. Landscaping (HR 275-8.C.(7) & 276-11.1.B.(20)) and Lighting (HR 276-11.1.B.(14))
 - a. HR 275-8.C.(7). The applicant has met the landscaping requirements for parking lot areas. We note that some lots are single access lanes and therefore exempt, however, the applicant met the requirements in those lots as well. (No further action required.)
 - b. HR 276-11.1.B.(14). The applicant has not shown any revisions to the proposed site lighting fixture locations on the plans. We note that light poles were not shown on the revised plans to review for any conflicts. No site lighting changes are needed and we have copied the pole locations to the plan views.
- 10. State and Local Permits (HR 275-9.G.)
 - a. HR 275-9.G. The applicant has not listed required permits and their statuses on the amended plan set. State sewer permit revision block has been added to the plan. All other permits are in place via the master plan set on record.
 - b. HR 275-9.G. The applicant did not provide copies of any applicable Town, State or Federal approvals or permits in the review package. All permit documentation is on file with the Town, a copy of the actual amended sewer permit will be provided (issuance expected imminently), as well as AOT conformance.
 - Additional local and state permitting may be required, including for the proposed underground propane storage tanks. The project does not use propane, and all permitting is in place relating to the site plan.
- 11. Other
 - a. We note that the amended plans provided do not stand alone as a plan set. The amended plans should be incorporated into the approved plan set for construction, and the applicant should coordinate with the Town for appropriate approval/filing copies. We note that the amended plans do not have legends, north arrows, or details. This addendum plan packet has been carefully coordinated with Town Staff as the most efficient and proper method to document the addendum to the master permit package on file.

SP #15-21 - Friars Drive Industrial Facility - Attachment D

- 11b. The applicant should provide a detail for the new brick areas shown on the plan set. We note that a brick detail was not provided on the original plan set. **The brick paver paver detail has been added.**
- 1. Site Plan Review Codes (HR 275)
 - h. New Fuss & O'Neill Comment: HR 275-6.T. The applicant has forwarded concept plans for offsite improvements adjacent to Lowell Road at the Friars Drive intersection. Review of those plans will be performed separately once design drawings have been received from the applicant. Former/Current Fuss & O'Neill Comment: The applicant has provided off-site improvements plans for review. Comments are provided below. **The plans were completed by the traffic engineer and reviewed by the Town Engineer.**
 - i. Former/Current Fuss & O'Neill Comment: HR 275-6.T. The applicant has shown an easement right-of-way for the improvements. We note that the relocated utility pole is outside of that easement. The applicant should review the need for a separate utility easement for the pole and anchor. The developer is finalizing confirmation of the exact pole placements directly from the utility companies, and will coordinate their standard pole easement documents employed for this type of relocation work. The pole relocations were always understood to be part of the slip lane project and to be accommodated as part of the overall development.
 - j. Former Fuss & O'Neill Comment: HR 275-6.T. The applicant should review the need to relocate CB-13 against the proposed curb line. The current layout appears to put the catch basin in the wheel path of vehicles. Current Fuss & O'Neill Comment: The applicant as revised the catch basin to be a manhole and added a new catch basin along the cub line. No further Fuss & O'Neill comment. No further action required.
 - Former/Current Fuss & O'Neill Comment: HR 275-6.T. The applicant did not include the offsite improvements within the site plan set. We note that if it is meant to be a standalone plan then details should be added for the pavement, curb and utility relocations. The traffic engineer's off-site improvements were coordinated with and approved by the Town Engineer as a separate plan set which included the requisite detailing.
- 6. Drainage Design/Stormwater Management (HR 275-9.A./Chapter 290)
 - Former Fuss & O'Neill Comment: Engineering Technical Guidelines and Typical Details (ETGTD) Section 930.13. Although this is not a public roadway cut section, due to some areas of significant cut upon the site (in the range of 10'-15'), the applicant should review the need for underdrain to help prolong the life of the pavement, drainage system, and building structures. The applicant should also comment on how this ground water, soon to be surface stormwater, is accounted for within the drainage calculations. Current/Former Fuss & O'Neill Comment: The applicant should keep the Town informed with any findings the geotechnical engineer uncovers during their evaluation. The suggestion of the addition of notes/locations of any future underdrains be placed onto the plans with tie-in information into catch basins, is an appropriate approach. These have been addressed with the ongoing construction as outlined in the master construction documents. We understand that the overall earthworks in the cut areas are nearing completion, with no evidence of groundwater that would have initiated additional underdrains.



Civil Engineers Structural Engineers Traffic Engineers Land Surveyors Landscape Architects Scientists

MEMORANDUM

Date:	November 29, 2022
То:	Brian Groth, Town Planner Town of Hudson
From:	Bob Duval, PE Jen Porter, PE
Project:	Friars Drive Industrial Facility Amended Site Plan 48 Friars Drive, Hudson NH
Subject:	F&O Traffic Review – TFM Response

We have received the Traffic review comments from Fuss & O'Neill dated November 15, 2022 (Item #4) and offer the following response. The pertinent part of the F&O comment is copied below, following our response in bold type:

F&O Comment:

4. Traffic

The procedures that the TFM report uses are reasonable, with appropriate ITE trip generation information as well as empirical data from the tenant of the proposed HCW building used for the scenario provided. This trip generation information shows that the estimated magnitude of the increase in peak hour traffic volumes related to the updated site development are on the order of 14 trips during the weekday morning peak hour and 15 trips during the weekday evening peak hour. Most of the trips generated by the proposed HCW building are expected to be during off-peak hours, as the tenant of the proposed building has agreed to set their shift schedules to avoid the peak hours of the Lowell Road corridor as stated in the analysis.

However, while the analysis assumes the adjacent roadway peak hour to be between 4:00PM - 5:00PM, 208 trips are expected to be generated around the time of the 3:30PM shift change. According to the most recent counts taken at Count Station 82229073 on Lowell Road in August of 2020, which are available on the NHDOT Transportation Data Management website, the weekday evening peak hour along Lowell Road appears to be between 3:00PM - 4:00 PM for each weekday that counts were taken. We note that these counts were conducted two years ago and were during the height of the pandemic, but if the peak hour put forth by these counts is still accurate, adding 208 trips may have impacts on the adjacent roadway network.

According to the described count data, the difference in vehicles between the 3:00PM - 4:00PM and 4:00PM - 5:00PM hours is also not very large, suggesting that either hour may have similar impacts if adding 208 trips to the network. We suggest verifying this information. If it is agreed that the additional 208 trips to the network may have some impacts on the roadway network, we suggest considering further analysis of the project impacts or adjusting the weekday afternoon shift change timing to be during actual off- peak hours or off-peak hours with noticeably less traffic than the actual peak hour.

We agree that there will be minimal impacts on the adjacent roadway network during the weekday morning peak hour as a result of the HCW development, but we believe the weekday evening peak hour should ultimately be looked at more closely.

TFM Response:

It is agreed that the AM peak hour will not be adversely impacted by the Friars Drive project.

In regard to PM peak hour traffic volumes along the Lowell Road corridor, we evaluated the two NHDOT MS2 stations within the study area; one at the southern end on Lowell Road between Flagstone and the bridge, and the other at the northern end between Pelham Road and Fox Hollow Drive.

The two most recent counts at these stations were taken in 2020 and 2017. However we believe the 2020 counts are skewed due to transient Covid effects. We therefore used the pre-Covid (higher) 2017 data, and averaged all counts to determine the appropriate PM corridor peak. The attached MS2 data shows PM peak volumes occur during the 4pm-5pm hour.¹

Comparing the MS2 average peak volumes at 4pm-5pm with the volumes recorded at 3pm-4pm, we find there were 218 fewer vehicles at the south end, and 36 fewer vehicles at the north end in the 3pm-4pm hour. The site trip distribution for the new tenant mix shows 178 new trips to/from the south, and 32 new trips to/from the north. That is, the total volumes at 3pm-4pm - including the proposed shift change - will have slightly fewer total trips than recorded at the actual (4pm-5pm) peak hour.

For the sake of conservatism, we also analyzed the effects of having the full shift-change traffic present during the actual PM roadway peak hour of the corridor per the approved traffic study. The results are shown below in Table 4a & 4b.

While the tables show the additional 208 shift-change trips will have some impacts on the roadway network, these impacts are not significant; there are no drops in overall LOS, overall delay change is a few seconds, and queue lengths are increased by one or two cars over the previously-approved values.

On the basis of these results, we conclude that traffic impacts due to the proposed tenant mix at shift change are minimal, even if that occurs during the actual PM roadway peak hour.

In conclusion, we find that adjusting the PM shift change to off- peak hours does not provide any significant benefit to corridor operations. However, signal timing adjustments at the Executive Drive intersection as recommended in the approved traffic study will provide a benefit to that intersection as well as overall corridor operations.

TFMoran, Inc. Robert Duval, PE Chief Engineer

¹ It should also be noted that the Langan "Hudson Logistics" study identified the roadway peak PM hour starting at 4:15pm. Those counts were done in October of 2019, also prior to the pandemic. That study was used as the basis for the approved study for this project, as directed by the Town.

		APPR	OVED		TI	ENANT #	1 UPDAT	ΓE	TENANT #1 UPDATE					
Location/		2022	Build			2022	Build		2022 Build Mit					
Peak Hour														
Movement	V/C ^a	Del. ^b	LOSc	Qd	V/C ^a	Del. ^b	LOSC	Qd	V/C ^a	Del. ^b	LOSC	Qd		

Table 4a 2022 PM Peak Hour

9: Lowell Road (3A) at Pelham Road

	• •										
PM OVERALL -	- <mark>0.93</mark>	55.1	E		0.94	57.3	E				
WB L	0.73	102.1	F	184	0.73	102.1	F	184			
WB R	0.13	57.2	E	78	0.13	57.2	E	78	No Tir	ning Mitigation	
NB TR	1.06	78.6	E	2205	1.08	82.8	F	2245		ning Mitigation	
SB L	0.53	78.6	E	384	0.53	78.6	E	384	Rec	Junnended	
SB T	0.55	8.2	А	754	0.55	8.3	Α	773			

8: Lowell Road (3A) at Fox Hollow Drive/Plaza

PM OVERALL -	0.56	18.0	В		0.57	17.8	В		
EB LT	0.20	82.8	F	39	0.22	83.4	F	40	
EB R	0.02	81.5	F	0	0.02	82.1	F	0	
WB LT	0.55	88.3	F	80	0.59	93.3	F	81	
WB R	0.04	67.3	E	34	0.04	68.6	E	36	No Timing Mitigation
NB L	0.50	88.5	F	70	0.50	88.5	F	70	Recommended
NB TTR	0.50	10.8	В	590	0.50	10.2	В	540	
SB L	0.60	89.4	F	124	0.66	96.3	F	134	
SB TR	0.56	10.8	В	810	0.57	10.7	В	791	

10: Lowell Road (3A) at Friars Drive

PM OVERALL		0.2	А		 	
EB R	0.11	16.3	С	10		

7: Lowell Road (3A) at Executive Drive/PMA Drive

	. ,								
PM OVERALL -	- 0.75	21.1	С		0.77	23.4	С		
EB LT	0.86	42.6	D	286	0.94	59.0	E	307	
EB R	0.06	11.9	В	21	0.06	12.7	В	21	
WB LT	0.09	19.7	В	33	0.10	21.0	С	34	
WB R	0.02	19.3	В	0	0.02	20.5	С	0	Timing Mitigation Recommended
NB L	0.49	33.6	С	72	0.58	37.5	D	86	Timing Willigation Recommended
NB TTR	0.65	16.1	В	282	0.63	15.6	В	282	
SB L	0.71	92.3	F	29	0.68	84.1	F	29	
SB TTR	0.61	18.4	В	228	0.65	19.1	В	260	

^a Volume-to-capacity ratio - ^b Average control delay (sec/veh) - ^c Level of service - ^d 95th percentile queue in feet

Meeting Date: 1/aff1/23iew – TFM Response Re: Proposed Distribution Warehouse Friars Drive, Hudson NH

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Table 4b 2022 PM Peak Hour Level of Service Analysis Summary

		APPR	OVED		T	ENANT #	1 UPDAT	E	TENANT #1 UPDATE				
Location/		2022	Build			2022	Build		2022 Build Mit				
Peak Hour													
Movement	v/c ^a	Del.⁵	LOSc	Qd	v/c ^a	Del. ^b	LOS	Qd	V/C ^a	Del. ^b	LOSC	Qd	

6: Lowell Road (3A) at Hampshire Drive/Oblate Drive

PM OVERALL -	- <mark>0.56</mark>	14.8	В		0.56	15.0	В		
EB LT	0.37	32.7	С	47	0.39	34.5	С	48	
EB R	0.08	24.8	С	26	0.08	26.0	С	26	
WB LT	0.22	36.9	D	24	0.23	38.7	D	24	
WB R	0.00	28.6	С	0	0.00	30.2	С	0	No Timing Mitigation
NB L	0.14	32.4	С	33	0.18	33.9	С	38	Recommended
NB TTR	0.62	12.3	В	337	0.61	11.9	В	343	
SB L	0.33	40.5	D	16	0.35	42.7	D	16	
SB TTR	0.62	15.0	В	275	0.65	15.4	В	313	

5: Lowell Road (3A) at Flagstone Drive/Wason Road

PM OVERALL -	- <mark>0.86</mark>	35.1	D		0.86	35.7	D					
EB LT	0.79	67.8	E	188	0.79	67.8	E	188				
EB R	0.81	45.3	D	366	0.81	44.9	D	366				
WB L	0.83	64.4	E	344	0.84	66.2	E	344				
WB LT	0.83	63.4	E	343	0.84	65.2	E	343				
WB R	0.02	34.6	С	0	0.02	34.8	С	0	No Timing Mitigation			
NB L	0.44	57.9	E	145	0.51	58.7	E	166	Recommended			
NB TT	0.73	28.0	С	253	0.74	27.5	С	253				
NB RR	0.44	5.2	А	25	0.44	4.9	А	24				
SB L	0.76	80.4	F	123	0.76	80.4	F	123				
SB TTR	0.71	40.8	D	334	0.77	42.7	D	375				

4: Lowell Road (3A) at Sagamore Bridge

	• •			9					
PM OVERALL -	- <mark>1.12</mark>	41.0	D		1.14	43.5	D		
EB LL	1.08	84.0	F	830	1.11	94.9	F	866	
EB R	0.90	8.4	А	5	0.90	8.4	А	5	
NB LLL	1.05	73.8	E	523	1.05	73.8	Е	523	No Timing Mitigation
NB TT	0.41	14.9	В	227	0.41	15.0	В	231	Recommended
SB TT	0.95	64.5	E	348	0.97	67.1	Е	360	
SB RR	0.51	0.4	А	48	0.53	0.4	А	86	
a Volume-to-capacity ratio - 6 Average control delay (sec/yeh) - 51 evel of service - 405th percentile queue in feet									

a Volume-to-capacity ratio - b Average control delay (sec/veh) - c Level of service - d 95th percentile queue in feet

Based



December 21, 2022

Mr. Brian Groth Town Planner Town of Hudson 12 School Street Hudson, NH 03051

Re: Town of Hudson Planning Board Review Friars Drive Industrial Facility Amended Site Plan, 48 Friars Drive Tax Map 209 Lot 1; Acct. #1350-975 Reference No. 20030249.2060

Dear Mr. Groth:

Fuss & O'Neill (F&O) has reviewed the submission of the materials received on November 30, 2022, related to an amended site plan for the above-referenced project. A list of items reviewed is enclosed. The scope of our review is based on the Site Plan Review Codes, Stormwater Codes, Driveway Review Codes, Sewer Use Ordinance 77, Zoning Regulations, and criteria outlined in the CLD Consulting Engineers Proposal approved September 16, 2003, revised September 20, 2004, June 4, 2007, September 3, 2008, and October 2015.

The project consists of the development of a 504,000 square foot footprint (523,320 square feet with interior 2nd story office space) industrial/warehouse building project on a previously undeveloped site. Improvements to the site also include the construction of a driveway, parking areas, drainage improvements, landscaping, lighting and other associated site improvements. The proposed building will be serviced by public water and sewer.

The current amended site plan includes revisions to truck loading docks, parking, and landscape areas to accommodate a tenant that will lease 75% of the facility.

1. Site Plan Review Codes (HR 275)

- a. HR 275-8.C.(2) and Zoning Ordinance (ZO) 334-15.A. The applicant has revised the plan set to add 70 parking spaces for a total of 436 parking spaces. We note that the applicant had previously stated that the maximum employee count would be controlled by the building owner at 241 employees per shift to meet the 366 spaces previously provided. The applicant has noted in the traffic analysis that a total of 289 employees (both tenants, all shifts) are anticipated, so there will be adequate parking available.
- b. Former Fuss & O'Neill Comment: HR 275-8.C.(6). The applicant had previously noted that 51 loading spaces are required for the site. We note with the additional square footage, 53 spaces are now required, and the applicant has provided more loading spaces than are required. The applicant should check the total indicated in the addendum table on sheet 2, as the number shown on the plan appears to be 73 or 74, not the 66 noted in the table.

Current Fuss & O'Neill Comment: The applicant has updated the final loading dock count to 73 on the plans. No further Fuss & O'Neill comment.

c. HR 275-9.C.(11). The applicant has provided twelve handicap spaces for the site which exceeds the nine spaces now required.

rt F:\Proj2003\030249 Hudson\Site\2060 Friars Drive Industrial Facility\Amended Site Plan - 5th Review\206 Friars Drive Industrial Facility Letter6 122122.Docx © 2021 Fuss & O'Neill, Inc

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Mr. Brian Groth December 21, 2022 Page 2 of 6

2. Administrative Review Codes (HR 276)

a. Former Fuss & O'Neill Comment: HR 276-11.1.B.(6). The owner's signature is not shown on the plan set; however, a location has been shown on the plans for it to be added.

Current Fuss & O'Neill Comment: The applicant has included the owner's signature on the plan. No further Fuss & O'Neill comment.

b. Former Fuss & O'Neill Comment: HR 276-11.1.B.(13). The applicant has not included details for any proposed site signage. The applicant has shown a wall sign on the building but no details or dimensions were provided.

Current Fuss & O'Neill Comment: The applicant has noted that wall and freestanding signs will be addressed via the Town's sign permit application and review process. No further Fuss & O'Neill comment.

3. Driveway Review Codes (HR 275-8.B. (34)/Chapter 193)

a. The applicant has not shown any changes to the proposed driveway.

4. Traffic

a. Former Fuss & O'Neill Comment: HR 275-9.B. We have reviewed the trip generation analysis memo prepared by TFMoran (TFM) dated October 21, 2022, for the proposed High-Cube Warehouse (HCW) building at 48 Friars Drive in Hudson, New Hampshire. The analysis includes a comparison of the traffic generated with a High-Cube Warehouse previously approved by the Hudson Planning Board in 2021 with the operations of a specific tenant that will occupy a 75% portion of the slightly enlarged facility. The previously approved site plan included 504,000 square feet of HCW, with the condition that all tenants would have trip generation characteristics typical of the HCW land use code described in the ITE Trip Generation Manual (Land Use Code 154). As part of the new traffic analysis, the proposed tenant for the site will occupy 397,320 square feet of the HCW facility and will generate trips based on empirical data provided by the tenant, while the remaining 126,000 square feet of the building is assumed to generated trips per ITE Land Use Code 154, consistent with the original approval.

The procedures that the TFM report uses are reasonable, with appropriate ITE trip generation information as well as empirical data from the tenant of the proposed HCW building used for the scenario provided. This trip generation information shows that the estimated magnitude of the increase in peak hour traffic volumes related to the updated site development are on the order of 14 trips during the weekday morning peak hour and 15 trips during the weekday evening peak hour. Most of the trips generated by the proposed HCW building are expected to be during off-peak hours, as the tenant of the proposed building has agreed to set their shift schedules to avoid the peak hours of the Lowell Road corridor as stated in the analysis.

However, while the analysis assumes the adjacent roadway peak hour to be between 4:00PM – 5:00PM, 208 trips are expected to be generated around the time of the 3:30PM shift change. According to the most recent counts taken at Count Station 82229073 on Lowell Road in August of 2020, which are available on the NHDOT Transportation Data Management website, the weekday evening peak hour along Lowell

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Mr. Brian Groth December 21, 2022 Page 3 of 6

Road appears to be between 3:00PM - 4:00 PM for each weekday that counts were taken. We note that these counts were conducted two years ago and were during the height of the pandemic, but if the peak hour put forth by these counts is still accurate, adding 208 trips may have impacts on the adjacent roadway network.

According to the described count data, the difference in vehicles between the 3:00PM - 4:00PM and 4:00PM - 5:00PM hours is also not very large, suggesting that either hour may have similar impacts if adding 208 trips to the network. We suggest verifying this information. If it is agreed that the additional 208 trips to the network may have some impacts on the roadway network, we suggest considering further analysis of the project impacts or adjusting the weekday afternoon shift change timing to be during actual off-peak hours or off-peak hours with noticeably less traffic than the actual peak hour.

We agree that there will be minimal impacts on the adjacent roadway network during the weekday morning peak hour as a result of the HCW development, but we believe the weekday evening peak hour should ultimately be looked at more closely.

Current Fuss & O'Neill Comment: The applicant has provided a response memorandum from TF Moran that adequately addresses our concerns related to the afternoon peak hour and tenant mix at shift changes, including the conclusion that adjusting the PM shift change to off-peak hours does not provide any significant benefit to corridor operations. No further Fuss & O'Neill comment.

5. Utility Design/Conflicts

- a. The applicant has not proposed any changes to the site utility locations or sizes on the amended plan set.
- b. Former Fuss & O'Neill Comment: HR 275-9.E. The applicant has included sewer flow calculations for the facility that appear to be from their original NHDES sewer connection permit. The applicant has provided updated sewer flow calculations to the Town of Hudson to correspond to the number of employees for the proposed tenant and the other tenant space. The sewer allocation for this facility will be reviewed and approved by the Town Engineer.

Current Fuss & O'Neill Comment: The applicant has noted that amended sewer permit calculations and application package were submitted to the Town and approved, and also reviewed by the NHDES. No further Fuss & O'Neill comment.

c. Former Fuss & O'Neill Comment: HR 275-9.G. The site will be connected to the municipal sewer system. As required by the Hudson Sewer Use Ordinance, if there is a manufacturing use at the facility the industry must complete an Industrial Pretreatment Permit application. This is not a requirement for site plan approval, but will be required prior to issuance of a certificate of occupancy. The applicant should coordinate with the Town to complete the Sewer Permit Application Screening Questionnaire/Checklist.

Current Fuss & O'Neill Comment: The applicant has noted that there are no proposed process/manufacturing flows. Completion of the Sewer Permit Application Screening Questionnaire/Checklist will need to be completed during the site building permitting process. No further Fuss & O'Neill comment.



Mr. Brian Groth December 21, 2022 Page 4 of 6

6. Drainage Design/Stormwater Management (HR 275-9.A./Chapter 290)

a. Former Fuss & O'Neill Comment: HR 275-9.A.1 & 290-5 The applicant provided a written reasonable explanation for a reduction of impervious area and an increase in pervious area with this site plan amendment. The applicant should coordinate with the Town if a waiver is required from submitting drainage calculations to meet the Regulations.

Current Fuss & O'Neill Comment: The applicant has noted that the drainage study and calculations on file and approved still apply, and that no further action is required. No further Fuss & O'Neill comment.

b. Former Fuss & O'Neill Comment: HR 275-9.A.1 & 290-5. The applicant should review the grading on the large new parking area "Landscape Parking Lot C1" in the southwest of the lot shown on the Addendum Grading Plan Sheet 5. The 162.0 contour appears to cross itself and create an "X" to the left of CB-C9. The new parking spaces also appear to be within the 4.0% to 5.0% slope range between the 160 contour and the 161 contour near CB-C9. That slope may lead to car doors opening faster and denting adjacent vehicles.

Current Fuss & O'Neill Comment: The applicant has noted that none of the grades exceed 5% which is industry standard maximum for parking lots, and for the specific area in the comment this allows for drainage to wrap around the adjacent curb to avoid puddling and retain the overall panel grading previously approved. No further Fuss & O'Neil comment.

c. Former Fuss & O'Neill Comment: HR 290-6. The applicant has not included erosion and sediment control information with the amended site plans, including but not limited to: locations of perimeter controls, location of stockpiles, catch basin inlets, loam and seed details, winter stabilization notes, etc. The applicant should ensure all erosion control measures and information detailed in the original site plan drawings are incorporated into the amended site plan during construction.

Current Fuss & O'Neill Comment: The applicant has noted that construction phase SWPPP plan and documents are currently active and will be adjusted to reflect any amendments via normal SWPPP updates and coincide with the erosion control plans. No further Fuss & O'Neill comment.

d. Former Fuss & O'Neill Comment: HR 290-8.A.10.A. The applicant should coordinate with NHDES and provide documentation to the Town showing that an amended AoT permit is not required.

Current Fuss & O'Neill Comment: The applicant has noted that they have contacted the NHDES to acknowledge the addendum. Copies of any documentation related to the AoT should be provided to the Town for their records. No further Fuss & O'Neill comment.

7. Zoning (ZO 334)

a. No comments at this time.

8. Erosion Control/Wetland Impacts

a. The Town of Hudson should reserve the right to require any additional erosion control measures as needed.

9. Landscaping (HR 275-8.C.(7) & 276-11.1.B.(20)) and Lighting (HR 276-11.1.B.(14))

a. HR 275-8.C.(7). The applicant has met the landscaping requirements for parking lot areas. We note that some lots are single access lanes and therefore exempt, however, the applicant met the requirements in those lots as well.



Mr. Brian Groth December 21, 2022 Page 5 of 6

b. Former Fuss & O'Neill Comment: HR 276-11.1.B.(14). The applicant has not shown any revisions to the proposed site lighting fixture locations on the plans. We note that light poles were not shown on the revised plans to review for any conflicts.
Current Fuss & O'Neill Comment: The applicant has noted that no site lighting changes are needed with the amended site plans and they have copied the pole locations to the plan

10. State and Local Permits (HR 275-9.G.)

views. No further Fuss & O'Neill comment.

a. Former Fuss & O'Neill Comment: HR 275-9.G. The applicant has not listed required permits and their statuses on the amended plan set.

Current Fuss & O'Neill Comment: The applicant has added a permit revision block to the plan. No further Fuss & O'Neill comment.

b. Former Fuss & O'Neill Comment: HR 275-9.G. The applicant did not provide copies of any applicable Town, State or Federal approvals or permits in the review package.

Current Fuss & O'Neill Comment: The applicant has noted that all permit documentation is on file with the Town. No further Fuss & O'Neill comment.

c. Additional local and state permitting may be required, including for the proposed underground propane storage tanks.

11. Other

a. Former Fuss & O'Neill Comment: We note that the amended plans provided do not stand alone as a plan set. The amended plans should be incorporated into the approved plan set for construction, and the applicant should coordinate with the Town for appropriate approval/filing copies. We note that the amended plans do not have legends, north arrows, or details.

Current Fuss & O'Neill Comment: The applicant has noted that the amended plans have been coordinated with the Town and are an addendum to the master permit package on file. No further Fuss & O'Neill comment.

b. Former Fuss & O'Neill Comment: The applicant should provide a detail for the new brick areas shown on the plan set. We note that a brick detail was no provided on the original plan set.
Current Fuss & O'Neill Comment: The applicant has added a brick paver detail to the plans. No further Fuss & O'Neill comment.

The following items were outstanding issues from previous reviews:

1. Site Plan Review Codes (HR 275)

- h. Former Fuss & O'Neill Comments: HR 275-6.T. The applicant has forwarded concept plans for off-site improvements adjacent to Lowell Road at the Friars Drive intersection. Review of those plans will be performed separately once design drawings have been received from the applicant. / The applicant has provided off-site improvements plans for review. Comments are provided below.
- i. Former Fuss & O'Neill Comment: HR 275-6.T. The applicant has shown an easement right-of-way for the improvements. We note that the relocated utility pole is outside of that easement. The applicant should



Mr. Brian Groth December 21, 2022 Page 6 of 6

> review the need for a separate utility easement for the pole and anchor. Current Fuss & O'Neill Comment: The applicant has noted that they are finalizing confirmation of exact pole placements with the utility companies and will coordinate easement documents for this work. The applicant should provide copies of all executed easements to the Town for their records. No further Fuss & O'Neill comment.

j. Former Fuss & O'Neill Comment: HR 275-6.T. The applicant should review the need to relocate CB-13 against the proposed curb line. The current layout appears to put the catch basin in the wheel path of vehicles.

Current Fuss & O'Neill Comment: The applicant as revised the catch basin to be a manhole and added a new catch basin along the cub line. No further Fuss & O'Neill comment.

k. Former Fuss & O'Neill Comment: HR 275-6.T. The applicant did not include the off-site improvements within the site plan set. We note that if it is meant to be a standalone plan then details should be added for the pavement, curb and utility relocations. Current Fuss & O'Neill Comment: The applicant has noted that the off-site improvements were coordinated with and approved by the Town Engineer as a separate plan set which included the requisite detailing. No further Fuss & O'Neill comment.

6. Drainage Design/Stormwater Management (HR 275-9.A./Chapter 290)

u. Former Fuss & O'Neill Comments: Engineering Technical Guidelines and Typical Details (ETGTD) Section 930.13. Although this is not a public roadway cut section, due to some areas of significant cut upon the site (in the range of 10'-15'), the applicant should review the need for underdrain to help prolong the life of the pavement, drainage system, and building structures. The applicant should also comment on how this ground water, soon to be surface stormwater, is accounted for within the drainage calculations. / The applicant should keep the Town informed with any findings the geotechnical engineer uncovers during their evaluation. The suggestion of the addition of notes/locations of any future underdrains be placed onto the plans with tie-in information into catch basins, is an appropriate approach.

Current Fuss & O'Neill Comment: The applicant has noted that this is being addressed with the ongoing construction, and that no evidence of groundwater that would initiate additional underdrains has been found during earthworks at the site. No further Fuss & O'Neill comment.

Please feel free to call if you have any questions.

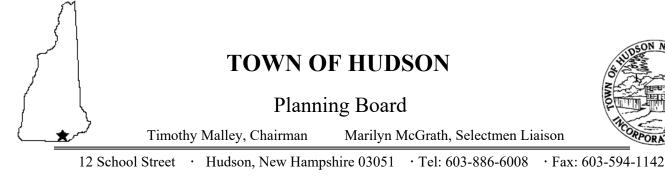
Very truly yours,

theph

Steven W. Reichert, P.E.

SWR: Enclosure

cc: Town of Hudson Engineering Division – File The Dubay Group – karl@thedubaygroup.com



NOTICE OF APPROVAL

March 30, 2022

Owner or Applicant:

5 WAY REALTY TRUST PETER HORNE, TRUSTEE P.O. BOX 1435 NOTH HAMPTON, NH 03862

LOWELL ROAD PROPERTY OWNER LLC STEVEN E. GOODMAN 133 PEARL STREET #300 BOSTON, MA 02110

On Wednesday, March 23, 2022, the Hudson Planning Board heard subject case SP# 10-21 "Friars Drive Industrial Facility".

SUBJECT: PURPOSE OF PLAN: TO PROPOSE A SITE PLAN FOR A 504,000 SQUARE FOOT WAREHOUSE BUILDING.

LOCATION: 161 LOWELL ROAD, MAP 209/LOT 001-000

On October 20, 2021, The Planning Board accepted the site plan application for 161 Lowell Road; Tax Map 209/Lot 001-000.

WAIVERS GRANTED:

• On December 15, 2021, The Planning Board granted a waiver from §275-8:C(2), to allow for a reduction in required parking spaces, based on the Board's discussion, the testimony of the Applicant's representative, and in accordance with the language included in the submitted Waiver Request Form for said waiver.

APPROVAL GRANTED:

On March 23, 2022 the Planning Board granted approval for: Site Plan, Friars Drive, Parcel 209-001-000, @ Sagamore Industrial Park, Hudson, New Hampshire; prepared by the Dubay Group, Inc., 136 Harvey Rd, Bldg B101, Londonderry, NH 03053; prepared for owners: GFI Partners / Lowell Road Property Owner, LLC, 133 Pearl Street #300, Boston, MA 02110 & 5 Way Realty Trust (Peter Horne, Trustee) PO Box 1435, N. Hampton, NH 03862; consisting of 97 sheets (including proposed elevations prepared by aF+S), with general notes 1-10 on Sheet 4; dated August 3, 2021, last revised January 11, 2022; subject to, and revised per, the following stipulations:

- 1. All stipulations of approval shall be incorporated into the Development Agreement, which shall be recorded at the HCRD, together with the Plan and the protective covenants.
- 2. All improvements shown on the Plan, including notes 1-10 on Sheet 4, shall be completed in their entirety and at the expense of the applicant or the applicant's assigns.
- 3. Prior to the issuance of a final certificate of occupancy, an LLS Certified "as-built" site plan shall be provided to the Town of Hudson Land Use Division, confirming that the site conforms to the Plan approved by the Planning Board.
- 4. A cost allocation procedure (CAP) amount of \$357,840.00 shall be paid prior to the issuance of a Certificate of Occupancy.
- 5. Applicant shall provide in depth detail of the right-turn slip lane that exits Lowell Road onto Friars Drive including soil testing and cross section of the slip lane, which will be subject to final approval by Engineering & Public Works Department. The design and construction of this off-site improvement will be completed at the expense of the applicant or the applicant's assigns. This work shall be completed prior to issuance of a certificate of occupancy.
- 6. A note shall be added to the plan stating: "There shall be no overnight occupancy of trucks on site. Vehicle idling shall comply with the requirements of Env-A 1100, as amended."
- 7. The onsite drainage system shall be constructed and maintained in compliance with NHDES requirements for such systems.
- 8. Prior to the Planning Board endorsement of the Plan, it shall be subject to final administrative review by Town Planner and Town Engineer.
- 9. Construction activities involving the subject lot shall be limited to the hours between 7:00 A.M. and 7:00 P.M. No exterior construction activities shall be allowed on Sundays.
- 10. Hours of refuse removal shall be exclusive to the hours between 7:00 A.M. and 7:00 P.M., Monday through Friday only.
- 11. Between the hours of 7pm and 6am the Applicant agrees to employ electric terminal tractors, also known as yard trucks.
- 12. All terminal tractors shall be equipped with smart, ambient sensing, multi-frequency back-up alarms.
- 13. Applicant shall maintain fences on a regular basis.
- 14. A note shall be added to the plan stating that stumps will not be buried on site and the berm will be made of soil.

Signed:

Date:

Brian Groth, Town Planner

cc: The Dubay Group, Inc.

From: Sent:	Dhima, Elvis Friday, November 18, 2022 1:27 PM
То:	Hayley Palazola; Groth, Brian
Cc:	Dubowik, Brooke; Karl Dubay; Robert Duval; etspe@outlook.com
Subject:	RE: Dept Sign Off - 48 Friars Dr. Industrial Site Plan SP# 15-22

Thank you Hayley

Brian, ENG has no further comments

Е

Elvis Dhima, P.E. **Town Engineer**

12 School Street Hudson, NH 03051 Phone: (603) 886-6008 Mobile: (603) 318-8286

Town of Hudson **NEW HAMPSHIRE 03051**

From: Hayley Palazola <hpalazola@gfipartners.com> Sent: Friday, November 18, 2022 12:54 PM To: Groth, Brian <bgroth@hudsonnh.gov>; Dhima, Elvis <edhima@hudsonnh.gov> Cc: Dubowik, Brooke <bdubowik@hudsonnh.gov>; Karl Dubay <karl@thedubaygroup.com>; Robert Duval <rduval@tfmoran.com>; etspe@outlook.com Subject: RE: Dept Sign Off - 48 Friars Dr. Industrial Site Plan SP# 15-22

EXTERNAL: Do not open attachments or click links unless you recognize and trust the sender.

Good Afternoon Brian & Elvis,

On behalf of Lowell Road Property Owner DE, LLC, I am attaching the team's response memo to the Town Engineering comments.

Thank you,



Hayley Palazola Vice President of Development

O: (617) 292-0101 M: (303) 250-3498 hpalazola@gfipartners.com

133 Pearl Street Suite 300 Boston, MA 02110 www.gfipartners.com

From:	Dhima, Elvis
Sent:	Thursday, November 3, 2022 10:31 AM
То:	Dubowik, Brooke; Groth, Brian
Subject:	RE: Dept Sign Off - 48 Friars Dr. Industrial Site Plan SP# 15-22

Please see below another comment

8. Applicant shall provide a detailed comparison / breakdown of staff and trips of the approved site plan and the current one, related to the traffic study

Elvis Dhima, P.E. Town Engineer

12 School Street Hudson, NH 03051 Phone: (603) 886-6008 Mobile: (603) 318-8286

Town of Hudson

From: Dhima, Elvis
Sent: Tuesday, November 1, 2022 3:53 PM
To: Dubowik, Brooke <bdubowik@hudsonnh.gov>; Groth, Brian <bgroth@hudsonnh.gov>
Subject: RE: Dept Sign Off - 48 Friars Dr. Industrial Site Plan SP# 15-22

Please see below

- 1. Applicant shall provide a comparison / breakdown of staff of the approved site plan and the current one
- 2. Applicant shall provide detailed information regarding water demands related to staff
- 3. Applicant shall provide detailed information regarding sewer demands and revised state permits / full breakdown of square footage and number of employees
- 4. Applicant shall provide full design of the water system, including fire suppression/storage tank
- 5. This application shall be subject to Town of Hudson water consultant review
- 6. Applicant shall comply with the Hudson Engineering construction specifications and standards, including water and sewer.
- 7. All the above items shall be submitted and approved prior to Engineering recommendation to PB for approval.

Thanks

E

Elvis Dhima, P.E. Town Engineer

12 School Street Hudson, NH 03051 Phone: (603) 886-6008 Mobile: (603) 318-8286

SP #15-21 - Friars Drive Industrial Facility - Attachment G

<u>SITE I</u>	PLAN APPLICATION
Date of Application: October 28,2022	Tax Map #: Lot #:001-000
Site Address: 48 Friars Drive	
Name of Project: 48 Friars Drive Ind	ustrial Site Plan - Tenant Addendum
Zoning District: Industrial & Genera	d General SP#: 15-22
Z.B.A. Action:(none for the recently-ap	(For Town Use Only) proved site plan, and none proposed)
PROPERTY OWNER:	DEVELOPER:
Name: Lowell Road Property Owner DE	, LLC (same as owner)
Address: 133 Pearl Street, Suite 300	
Address: Boston, MA 02110	
Telephone # (303)250-3498 (direct)	
Email: hpalazola@gfipartners.com	
(Hayley Palazola, VP of Developme PROJECT ENGINEER:	SURVEYOR:
Name: Karl Dubay, The Dubay Group	, Inc. Joel Connolly, The Dubay Group, Inc.
Address: 136 Harvey Rd Bldg B101	136 Harvey Rd Bldg B101
Address: Londonderry, NH 03053	Londonderry, NH 03053
Telephone # 603-247-8766 (direct)	603-315-8763 (direct)
Email: karl@thedubaygroup.com	joel@thedubaygroup.com

<u>PURPOSE OF PLAN:</u> Addendum tenant adjustments of previously-approved site plans. Consists of replacing previously-approved truck docks and truck areas with parking and green space and related adjustments, and adding 19,320 SF of office space in a second level fully contained within the previously-approved building envelope. No new pavement is proposed, and no changes are involved outside of the previously-approved paved footprint area.

(For Town Use Only)
Routing Date: 11/1/22 Deadline Date: 1/11/22 Meeting Date: TBD
I have no comments I have comments (attach to form)
DRH Title: Fire Marshal Date: 11/16/22 (Initials) No additional comments. Previous approval comments
Department: apply
Zoning: Engineering: Assessor: Police: Fire: DPW: Consultant:

Page 2 of 8 Site Plan Application - Hudson NH 080122

SP #15-21 - Friars Drive Industrial Facility - Attachment G

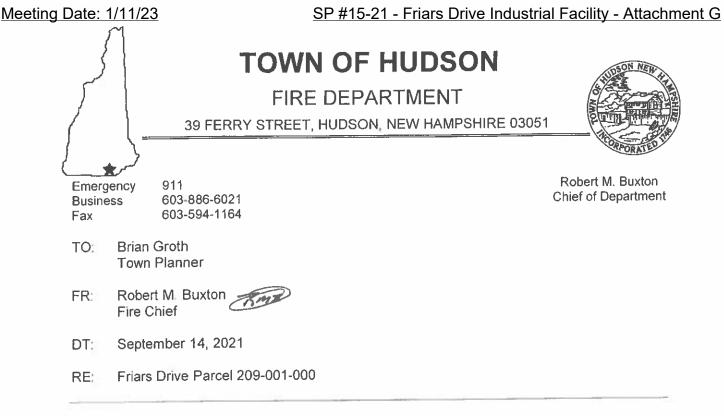
SITE PLAN APPLICATION

Date of Application: August 3, 2021	Tax Map #: 209Lot #: 001-000
Site Address: Friars Drive (161 Lowell Road to be	re-assigned)
Name of Project: 5 Way Realty Trust Site Plan	
Zoning District: General (G) & Industrial (I)	General SP#: 10-21
Z.B.A. Action:	(For Town Use Only)
PROPERTY OWNER:	DEVELOPER:
Name: 5 Way Realty Trust - Peter Horne, Trustee	Lowell Road Property Owner, LLC - Steven E. Goodman
Address: PO Box 1435	133 Pearl Street #300
Address: North Hampton, NH, 03862	Boston, MA, 02110
Telephone # (use authorized developer contact)	617-292-0101
Email: (use authorized developer contact)	sgoodman@gfipartners.com
PROJECT ENGINEER:	SURVEYOR:
Name: The Dubay Group Inc.	(same)
Address: 136 Harvey Road Bldg B101	
Address: Londonderry, NH, 03053	
Telephone # (Direct) 603-247-8766	
Email: Karl@thedubaygroup.com	

PURPOSE OF PLAN: Site Plan for a 504 ksf warehouse building.

(For Town Use Only)			
Routing Date: <u>8/6/21</u> Deadline Date: _			
I have no comments I have comments (attach to form)			
(Initials) Title: FIRE CHIEF	Date: 1/14/21		
Department:			
Zoning: Engineering: Assessor: Po	lice:Fire:DPW:Consultant:		

Page 2 of 8 Site Plan Application - Hudson NH



The following is a list of site plan concerns for this project. This review was completed utilizing plans submitted by The Dubay Group dated August 3, 2021.

- 1. Please provide the markings for fire apparatus access in accordance with NFPA 1.
- 2. The project shall obtain site addressing from the Hudson Fire Department.
- 3. The common driveway shall have a permanent sign approved by the Hudson Fire Department noting the addresses of the buildings that are accessed from that driveway. These signs shall be approved and installed before issuance of any building permits.
- 4. Please make sure that the proposed snow storage area shown on the plan does not impede parking or travel paths.
- 5. The Fire Department will require three copies of the fire hydrant layout for the full site.
 - a. The Fire Department would request that a hydrant be located minimum of 100', with a maximum of 200' away from the buildings to support the fire department connection.
 - b. The Fire Department would further like to see a hydraulic review for the site. The site is proposed with a private supply and fire pump. This review can be handled once a final building permit is submitted. In concept, the proposed plan is reasonable for this facility. Once final fire flow is calculated, the tank, pump and pipe sizing can be finalized.

**The following life safety and fire protection concerns provided are for informational purposes to the applicant and Planning Board for this project. Final determinations on these issues occur after further review of the project.

A. The proposed building will require an approved sprinkler system. The Hudson Fire Department upon review of the building plans shall conduct this review. This requirement is in accordance with the International Building Code (IBC) and Hudson Town Code

(HTC), current revision, Chapter 210, Article VI. Any fire protection system shall be monitored by an approved fire alarm system.

- B. The fire alarm system shall be connected to the Hudson Fire Department's municipal fire alarm system or a substantially equivalent system in accordance with the Hudson Town Code, Chapter 210. A site plan detailing the aerial or underground layout to the municipal fire alarm connection must be provided before the utilities are completed for this project.
- C. Any required fire alarm system component must remain accessible and visible at all times.
- D. Due to the size of each of the buildings, the Fire Department will require an emergency communication system review by our radio system vendor. The vendor shall review the need for signal amplification for first responder communication signals to be received and transmitted from inside the building; additionally, a review of transmission from the site to the Town of Hudson radio system will also be required. As outlined in the Building and Fire Code, the AHJ shall determine the acceptable level of coverage for the site. Any improvements identified shall be at the cost of the developer.
- E. A blasting permit will be required for any blasting on the site in accordance with the Hudson Town Code, Chapter 202.
- F. Will there be inside or outside storage above the exempt amounts of hazardous materials, liquids or chemicals presenting a physical or health hazard as listed in the International Building Code, Sections 307, 414 or 415? All Tier II reporting requirements shall be followed each year for all facilities.
- G. All storage either inside or outside of hazardous materials, liquids or chemicals presenting a physical or health hazard as listed in NFPA 1, Section 20.15.2.2 shall be in accordance with the applicable portions of the following:

NFPA 13, Standard for the Installation of Sprinkler Systems NFPA 30, Flammable and Combustible Liquids Code NFPA 30B, Code for the Manufacture and Storage of Aerosol Products NFPA 230, Standard for the Fire Protection of Storage NFPA 430, Code for the Storage of Liquid and Solid Oxidizers NFPA 432, Code for the Storage of Organic Peroxide Formulations NFPA 434, Code for the Storage of Pesticides

cc: Project Engineer

File



CAP FEE WORKSHEET - 2022

Date: <u>12-1-22</u> Zone # <u>1</u> Ma	p/Lot: <u>209/001-(</u> Friars Di	
Project Name: Friars Drive Industrial Bu		
Proposed ITE Use #1: <u>154 High-Cube Translo</u>	ad/Short-Term Sto	rage Warehouse
Proposed Building Area (square footage):	504,000	S.F.
Proposed ITE Use #2: Office Space		
Proposed Building Area (square footage):	19,320	S.F.

CAP FEES: (ONE CHECK NEEDED)

1.	(Bank 09) 2070-701	Warehouse (504,000 s.f @ \$0.71 per s.f		357,840.00
	*per previous approval with 2021 rates			
2.	(Bank 09) 2070-701	General Office (19,320 s.f @ \$2.31 per s.f)	<u>\$</u>	44,629.20
		Total CAP Fee	\$	402,469.20

Check should be made payable to the <u>Town of Hudson</u>.

Thank you,

Brian Groth

Town Planner