The Palmer Center

at Alvirne High School 200 Derry Road Hudson, NH 03051 603-886-1237

> Eric Frauwirth CTE Director



TO:

Elvis Dhima, P.E., Town Engineer

Brian Groth, AICP, Town Planner

Planning Board

School Board

Board of Selectmen

FROM:

Ben Marshall, Forestry & Wildlife Instructor

Eric Frauwirth, CTE Director

DATE:

May 2, 2022

RE:

Proposed asphalt pad for forestry

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TOWN OF HUDSON PLANNING DEPARTMENT

We are requesting your support/approval for the construction of a poured pad to house two shipping containers and associated structure to contain forestry equipment and saw mill.

Currently the Palmer Center is conducting timber harvesting, agriculture and sawmill related activities adjacent to the area marked on the plan, please see attachment. This is currently done at an open and unleveled field, while the students, equipment and instructors are subject to weather elements. Our intent is to grade and construct a level pad, approximately 50 feet by 100 feet, which will provide a solid and level surface for our operations. We are hoping that this area will eventually be paved in the near future, through a donation by companies that work in or around Town of Hudson.

In addition, our future plains include adding a pole barn erected building with the help of building trades and donations. This structure will be approximately 30 feet by 40 feet and will provide better and safer storage conditions for our equipment and logs, in addition to providing the students with the ability to mill during inclement weather. In completing this project, students will have a safer work environment, better hands-on experience with the small-scale sawmill industry, an industry that is thriving in New Hampshire.

Per RSA 674:54, see attachment, this project is classified as "governmental use" and therefore is exempt from local land use ordinance and regulations. The project is scheduled to start construction in late May 2022.





TOWN OF HUDSON

Engineering Department



12 School Street ' Hudson, New Hampshire 03051 ' Tel: 603-886-6008 ' Fax: 603-816-1291

TO:

Brian Groth, AICP, Town Planner

Planning Board

FROM:

Elvis Dhima, P.E., Town Engineer

DATE:

May 25, 2022

RE:

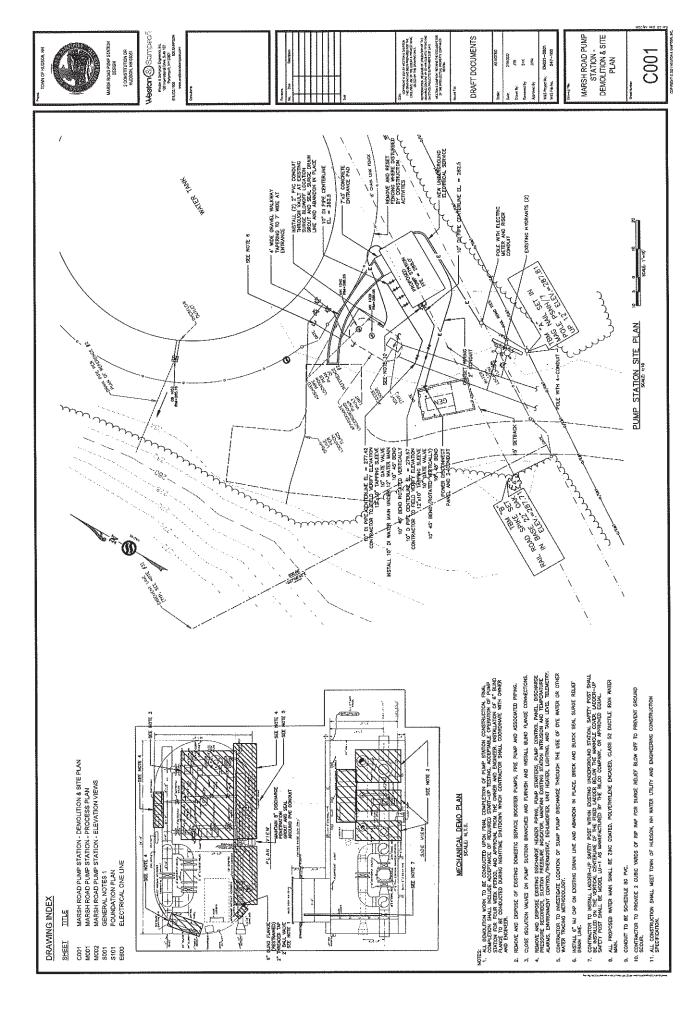
Proposed Booster Station Upgrades

The Town Marsh Road water booster station is currently underground and in need of upgrades. This metal structure is located within the same easement that the Marsh Road water storage tank is located and it was installed in the 70s.

The proposed work will consist removing the booster pumps that are located underground and install a new pre-fabricated building which will house the new pumps and control system. This upgrade will address our current needs for domestic and fire services required for the service area. Please see attached plan for additional information.

In addition, a secondary communication system will be installed and it will consist of a 60 foot tall antenna installation at the site. This will provide the Town with the ability to communicate through the radio equipment in case the wireless routers get compromised or hacked.

Per RSA 674:54, see attachment, this project is classified as "governmental use" and therefore is exempt from local land use ordinance and regulations. The project is scheduled to start construction in late July 2022.





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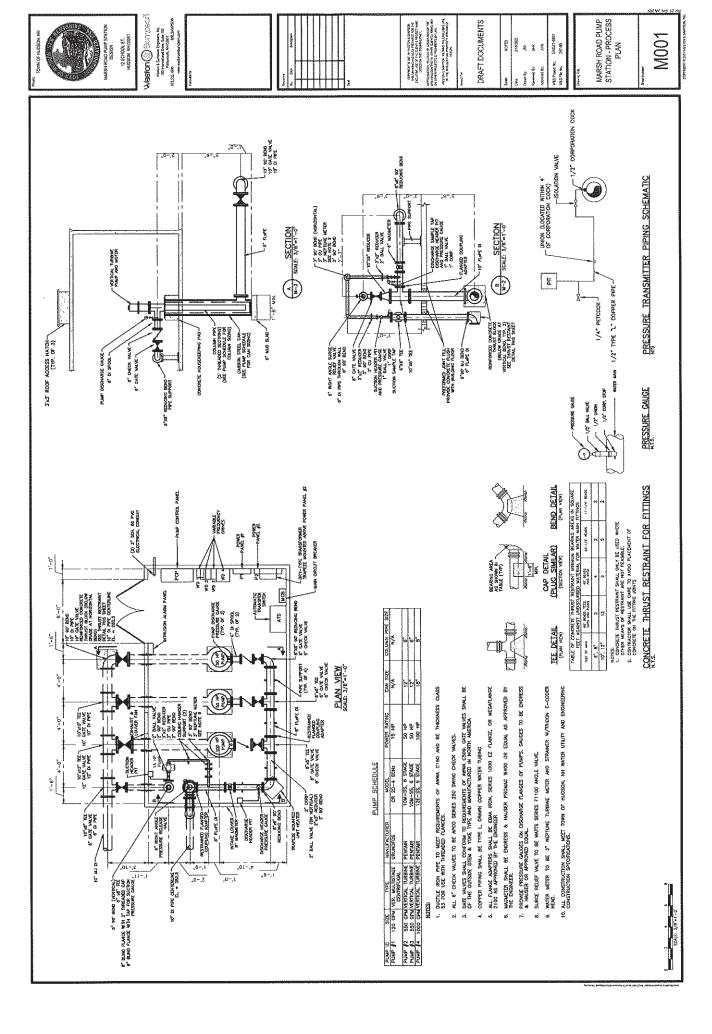
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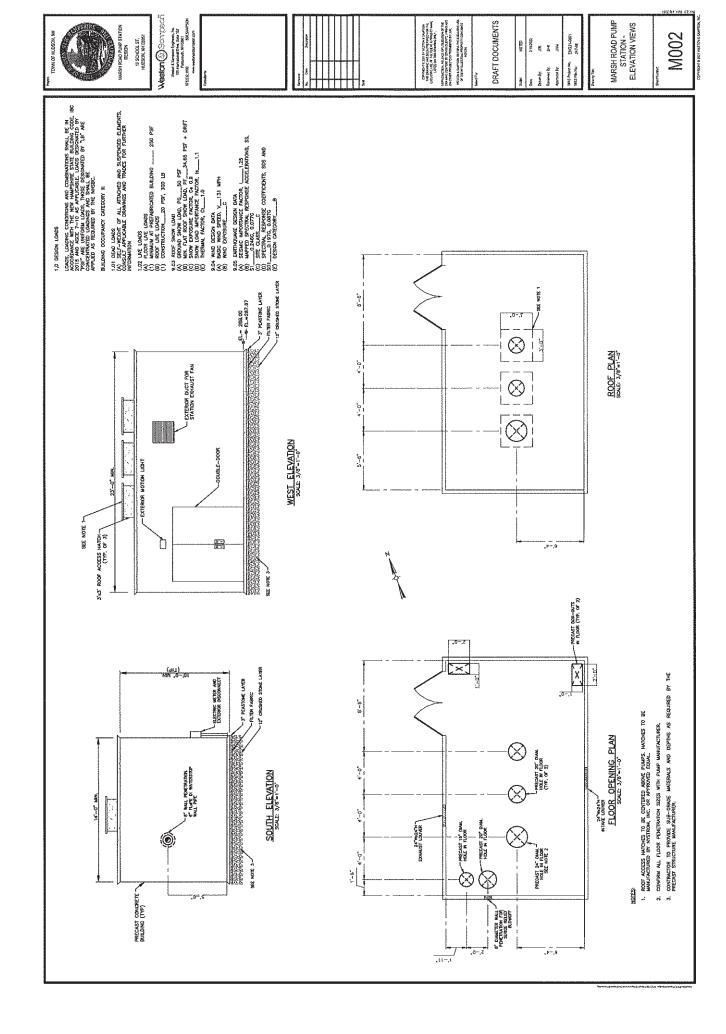
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New Hampshire Small MS4 Regulation Assessment Report Town of Hudson, NH

Sections 2.3.6.c and 2.3.6.d require that the permittee develop a report assessing current street design and parking lot guidelines and other local requirements that affect the creation of impervious cover or the implementation of low impact development practices. The report should confirm that appropriate reductions in impervious area and green infrastructure practices are allowable. The following list with associated action items may serve as this report.

1) Where in municipal code are public street widths regulated?

Public street widths are specified in Section 515.7 of the Town's Engineering Design Guidelines and Typical Details Guidance Document produced for the Town Engineering Department and last updated in August 2019.

a. Do regulations allow for/encourage lane width reductions where appropriate?

The use of Low Impact Development measures is encouraged for new and redevelopment projects to the maximum extent practical as part of the Chapter 290 Stormwater Management provisions of the Site Plan Regulations. However, there appears to be limited flexibility in the street width specifications included in Town's Design Guidelines to allow for narrower lane-widths or roadways for new public or private streets, where appropriate.

b. If not, determine where adjustments in code may be appropriate to allow for this reduction in impervious area:

The Town should consider modifying or amending the street width requirements in Section 515.7 of the Town's Engineering Design Guidelines and Typical Details Guidance Document to describe situations/conditions that would allow for and encourage narrower roadways where appropriate (e.g., small subdivisions and low traffic roads with few homes).

- 2) Where in municipal code are private street widths regulated?
 - a. Do regulations allow for/encourage lane width reductions where appropriate?

Private streets are regulated the same as public roads as described above.

b. If not, determine where adjustments in code may be appropriate to allow for this reduction in impervious area:

See response to Question 1.b above.

- 3) Where in municipal code are parking space sizes regulated?
 - a. Do regulations allow for/encourage parking space size reductions where appropriate?

Parking space size dimensions are regulated in Section 275-8 (Item 4) of the Site Plan Review Submission Requirements. The current requirements require parking spaces to be 10 feet by 20 feet but will allow spaces to be reduced to 9 feet by 18 feet subject to Planning Board approval. Access aisle width requirements range from 11 feet to 24 feet depending on the parking space angle and traffic flow. The current regulations do not specifically encourage the use of permeable pavement or concrete materials. Item 7 (Landscaping requirements) of the same section require that a minimum of 10% of the parking lot area be used for landscape islands with shade trees at a rate of 1 tree per 1,600 sq. ft. of parking area or one tree per 5 parking spaces, whichever is greater. In addition, one shrub shall be planted with one shrub per 200 square feet of parking area or 1.6 shrubs for each parking area. These plantings should help to intercept and transpire precipitation.

b. If not, determine where adjustments in code may be appropriate to allow for this reduction in impervious area:

The Town should consider revisiting the parking space requirements to allow for a reduced number and/or size of the required parking spaces, where appropriate.

- 4) Where in municipal code are the number of required parking spaces regulated?
 - a. Do regulations allow for/encourage parking space reductions where appropriate?

Item C of Section 275-8 Application Submission requirements of the Site Plan Regulations specifies the number of parking spaces that should be provided for various types of facilities. The Regulations allow the Applicant to demonstrate that fewer parking spaces than required would be appropriate and consistent with the intended use and is subject to Planning Board approval.

b. If not, determine where adjustments in code may be appropriate to allow for this reduction in impervious area:

No further adjustments considered necessary at this time.

- 5) Where in municipal code are allowable stormwater Best Management Practices (BMPs) regulated?
 - a. Do regulations allow/encourage low impact development design options? Specifically confirm that the following practices are allowable by code:
 - Infiltration practices such as rain gardens
 - Curb extensions
 - Planter gardens
 - Porous and pervious pavements

The Chapter 290 Stormwater Management regulations require the use of Low Impact Development (LID) measures for new and redevelopment projects to the maximum extent practical and if not considered practical, the Applicant shall document the reasons or the constraints as to why they are not practical. Part A Item 3 of Section 290-5 Basic Post-Construction Stormwater Requirements outlines various types of LID measures that should be considered including infiltration measures, permeable pavement, stormwater capture/reuse, bioretention and vegetated measures.

b. If not, note impediment to the use of the practices and determine where adjustments in code may be appropriate to allow for these practices:

The number and type of LID measures implemented in new development projects going forward will depend in large part on the Planning Board and Technical Review Committee members' due diligence in requiring Applicants to include LID measures in the site design and, if considered not practical, to request documentation as to why they are not practical.

- 6) Are green roofs allowed by building code and other applicable regulations?
 - a. If not, note impediment to the use of the practices and determine where adjustments in code may be appropriate to allow for this practice.

Green roofs are mentioned in the LID definition as an example of an LID measure but are not specifically mentioned or encouraged within the Regulation code itself. The Town should consider adding language to the Post-Construction Stormwater Management Chapter 290 to allow and encourage the use of Green Roofs in appropriate commercial facilities as a means of reducing stormwater runoff.

- 7) Is water harvesting and the use of stormwater for non-potable uses allowed by building/plumbing code and other applicable regulations?
 - a. If not, note impediment to the use of the practices and determine where adjustments in code may be appropriate to allow for these practices.

The Town should consider adding language that allows for and encourages the use of water harvesting for irrigation and other non-potable uses especially for larger commercial sites that will require relatively large areas of impervious surfaces.

If the above assessment indicates that code adjustments are necessary, outline the steps needed to adjust/amend code as needed and estimate timelines for that process. Identify and involve any pertinent planning board, transportation committee, building department, etc. needed to amend applicable codes. The permittee shall report on its findings and the progress towards making the practices allowable as part of the MS4 annual report.