

CITY OF BELFAST, MAINE 04915

Public Works

Tel: 338-2375
Fax: 338-0251

115 Congress St.

City Hall

131 Church Street

Tel: (207) 338-3370
Fax: (207) 338-6222

Permit to Open Street

I, Nordic Aquafarms, Inc. agree to repair any and all damage done to

Perkins rd. extending approximately 280ft from the intersection with Northport ave. for the full pavement width of approximately 25ft. Work will continue adjacent to the road extending approximately 975ft beyond this point. Further detail of the proposed scope of work can be found in the accompanying map below.

(sidewalk, street/road) during the construction or utilities to be installed for the

Nordic Aquafarms aquaculture project.

I agree to completely backfill all trenches excavated across Perkins rd (At these locations)

All these will be repaired back to the original design when project is completed unless approved by the City of Belfast.

Date March 7, 2019

Signed: 
Owner or Project Manager

Phone: (860) 625-1908

Ed Cotter, Project Director - Nordic Aquafarms, Inc.
Print Name

Calculated and reviewed By:

Signed: Bob Rubin 3/21/19
Public Works Director or Agent

Permit Fee: \$ 102,000.00
Estimate, 3/21/19

Paid: \$ _____ Check # _____
Method of Payment

Permits are calculated on the following: Needs at least 4" of Pavement back in trench
And 24" of 4" gravel compacted.

Length X Width divided by 9 X .165 X \$800.00 = Permit Fee

A minimum fee of \$1,000.00 per opening will be charged regardless of calculated fee.

Permit fee is refundable after completion of project and a final inspection by Public Works Director. Project must be found to be satisfactory to the City of Belfast.

REFUND POLICY: All permits issued between October 15th and May 15th, the fees

will be held until after May 15th when a final inspection can be completed. (This is to allow for ground frost and any settling of the trenches)

CC: City Clerk's Office and Planning & Development Office



NORTHWEST AVENUE
(SEE NOTE 1)

8FT WIDE TRENCH -
OVERLAY FULL
WIDTH OF ROAD
6,400SF

SFM 4FT FROM
EOP

POTENTIALLY HALF
OVERLAY
400 SF

SFM 5-6FT FROM
EOP

DRIVEWAY REPAIR
700SF+4

DRIVEWAY REPAIR
1,800SF+4

DRIVEWAY REPAIR
700SF+2

2 METAL CULVERTS (100'S P.O.C.
NORTH) 1 METAL CULVERT (100'S P.O.C.
SOUTHERLY) INVERT 289.53

APPROXIMATE
LOCATION FOR
FORCE MAIN

APPROXIMATE
WATERLINE
LOCATION

CULVERT TABLE: CULVERTS WERE LOCATED IN SNOW AND ICE CONDITIONS IN
FEBRUARY 2016. INVERTS BELOW ARE APPROXIMATE DUE TO ICE IN CULVERTS

CULVERT	WESTERLY INVERT	EASTERLY INVERT	PIPE AND JOINT
A	74.92	87.74	BRANDON
B	79.42	81.14	18" METAL
C	77.52	79.84	18" PLASTIC
D	74.22	71.54	18" PLASTIC
E	70.82	70.42	12" METAL
F	68.82	68.32	BRANDON
G	70.72	72.02	BRANDON

CULVERT BASIN
INVERT 279.1

CULVERT A

CULVERT B

CULVERT C

CULVERT D

CULVERT E

CULVERT F

CULVERT G

REPAIR ROAD
(SEE NOTE 1)

**CONDITIONAL ROAD OPENING PERMIT TO NORDIC AQUAFARMS
PERKINS ROAD SEWER INSTALLATION & ROAD REPAIR
ADDITIONAL TERMS AND CONDITIONS
ISSUED BY BOB RICHARDS, PUBLIC WORKS DIRECTOR
MARCH 21, 2019**

Bob Richards, Director, Public Works, City of Belfast, has reviewed the Road Opening Permit application dated March 7, 2019 submitted by Nordic Aquafarms that is associated with their request to install a private sewer line in Perkins Road. He has approved the Conditional Issuance of this Permit and has signed the Permit application on behalf of the City. In Conditionally Approving this Permit, Nordic Aquafarms is advised that the City resurfaced Perkins Road in 2016 - 2017 and that the City typically tries to avoid major impacts to a recently resurfaced road. The Conditions that the City has established partly reflect the City's recent actions to resurface Perkins Road.

The Conditional Issuance of this Road Opening Permit is subject to Nordic Aquafarms complying with the following Additional Terms and Conditions.

1. Nordic Aquafarms shall provide the City final engineering and construction plans for the installation of the private sewer line located within the City right-of-way for Perkins Road, and for associated resurfacing and remediation work on Perkins Road. Nordic Aquafarms shall provide said plans to the City a minimum of twenty-one calendar days prior to the start of any construction. The City will review the final construction plans and identify any concerns that it may have regarding the proposed construction. The Director of Public Works must approve the construction and engineering plans before Nordic Aquafarms can initiate any construction. The construction and engineering plans, at a minimum, shall include the following information:
 - 1.1 The location and depth of the installed sewer line, and materials to be used for the sewer installation, including any frost protection materials that may be installed.
 - 1.2 The location and size/width of the trench cut in the paved surface of Perkins Road and in the shoulder of Perkins Road.
 - 1.3 Description of fill materials that will be installed in the trench cut and how said materials will be compacted.
 - 1.4 Description of the replacement paving that will be installed, including the type/grade and thickness of the pavement. City requires that Nordic Aquafarms install a full width resurfacing of Perkins Road, about 24 feet in width, for the section of Perkins Road that will be disturbed by the sewer line installation, about 280 lineal feet of Perkins Road. The replacement asphalt must be equal to the depth and quality of existing pavement. The Public Works Director will make the final determination regarding the depth of replacement asphalt that must be installed after inspecting the road cut made during project construction.
 - 1.5 In areas that involve installation of the private sewer line in the road shoulder, Nordic must identify how the road shoulder will be repaired.

- 1.6 Plans must identify the location of other utilities in the road, such as the existing water line, and other infrastructure within the road right-of-way, such as culverts, drainage swales, utility poles and the like, and how the project will avoid adverse impacts to said utilities.
- 1.7 The plan must identify erosion control measures that will be installed and how the contractor will maintain the erosion control measures during project construction.
2. The engineering and construction plans (reference 1 above) submitted by Nordic Aquafarms shall include a narrative description that, at a minimum, addresses the following concerns:
 - 2.1 Description of when construction will occur. City prefers that construction occur before Memorial Day or after Labor Day. If construction is proposed between Memorial Day and Labor Day, Nordic Aquafarms shall be required to demonstrate why construction needs to occur during that time period and measures that Nordic Aquafarm shall take to address public safety and traffic concerns associated with the increased traffic volumes that occur during that time of year.
 - 2.2 A description of the length of time to complete project construction and a schedule for all construction activities. The schedule also shall identify any proposed construction activities that would occur at night and how Nordic Aquafarms would conduct night-time activities, including how potential adverse impacts on area residents from night-time construction would be addressed.
 - 2.3 The project construction narrative must identify a traffic management program. The program must identify who will perform these services and devices that will be used to safely manage traffic.
 - 2.4 The narrative must identify the contractor that Nordic Aquafarms will engage to perform project construction work. The City shall be provided a list of contact information for all persons involved with project construction, including a 24 hour emergency contact person.
3. Nordic Aquafarms, upon final City approval of this permit, and prior to the start of any construction, shall provide the City a check for the total amount of the 'escrow account' associated with issuance of a permit. The estimated amount of this fee is \$ 102,000. The Public Works Director, in his review of the final project construction and engineering plans referenced in 1 above, shall determine if this estimated fee is accurate or if any adjustments to the amount of the fee (greater or lesser amount) are warranted. Post completion of project construction, the City Public Works Director shall determine when or if it is appropriate to release any or all of the funds in this 'escrow account', or if the City must use any or all of the funds to make repairs to the construction work performed by Nordic Aquafarms and its contractor(s).
4. The City shall require that the proposed construction and engineering plans, particularly the plans for installation of the private sewer line, be reviewed and approved by City Engineer, Olver Associates. Nordic Aquafarms shall be responsible for paying any and all costs associated with project review services provided to the City by Olver Associates. Nordic Aquafarms shall provide the City a check in the amount of the estimated cost of such services prior to the start of their peer review. If the cost of services provided by City

Engineer exceeds the estimated cost of services, Nordic Aquafarms shall be responsible for paying all additional costs incurred by the City. If the cost of services are less than the estimated cost, the City shall return all unexpended funds for this work to Nordic Aquafarms.

5. The City shall require that Olver Associates, City Engineer inspect the point of connection between the private sewer line that Nordic Aquafarms is constructing and the City sewer line on Perkins Road. The Public Works Director does not anticipate the need to have Olver Associates inspect other project construction, however, the Director shall have the authority to engage the services of Olver Associates, City Engineer to inspect any and all other project construction and to assess if said work satisfies City requirements. If the Public Works Director deems that inspection services are warranted, Nordic Aquafarms shall be responsible for paying any and all costs associated with services provided to the City by Olver Associates. If the Public Works Director chooses to require inspection services be provided by Olver Associates, Nordic Aquafarms shall provide the City a check in the amount of the estimated cost of such services at the time that the Public Works Director determines the services are necessary. If the cost of services provided by City Engineer exceeds the estimated cost of services, Nordic Aquafarms shall be responsible for paying all additional costs incurred by the City. If the cost of services are less than the estimated cost, the City shall return any unexpended funds to Nordic Aquafarms.
6. It is expressly understood that City issuance of this Conditional Road Opening Permit is based upon information provided to the City by Nordic Aquafarms in their March 7, 2019 Road Opening Permit application. The City, following its review of the additional information that Nordic Aquafarms is required to submit, shall have the authority to revise any or all of the Additional Terms and Conditions identified in this Conditional Permit issued on March 21, 2019, and to establish any new Terms and Conditions that should apply to the final Road Opening Permit.