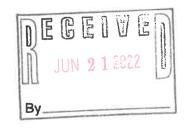


85 Portsmouth Avenue, PO Box 219, Stratham, NH 03885 603.772.4746 - JonesandBeach.com

June 21, 2022

Rochester Planning Board Attn. Mark Collopy, Chair 31 Wakefield Street Rochester, NH 03867



RE: Site Plan Application

105 Farmington Road, Rochester, NH

Tax Map 209, Lot 1 JBE Project No. 21298.1

Dear Mr. Collopy,

Jones & Beach Engineers, Inc., respectfully submits a Site Plan Application for the above-referenced parcel on behalf of our client, GR Development. The intent of this application is to propose a 4,200 S.F. carwash on Tax Map 209, Lot 1.

The following are provided in support of this application with the following items:

- 1. Site Plan Application with Checklist.
- 2. Current Deed.
- 3. Signed Letter of Authorization.
- 4. Abutters List with Three (3) Sets of Mailing Labels.
- 5. Two (2) Drainage Analysis.
- 6. Three (3) Full Size Plan Sets.
- 7. Three (3) 11x17 Architectural Plan Sets.
- 8. Three (3) 11x17 Plan Sets (Folded).
- 9. Fee Check.
- 10. Water Usage Report.
- 11. Traffic Report.

If you have any questions or need any additional information, please feel free to contact our office. Thank you very much for your time.

Very truly yours,

JONES & BEACH ENGINEERS, INC.

Erik Poulin, P.E. Project Manager

cc: Jim Waterman, GR Development (application & plans via email)



Planning Board Conservation Commission Historic District Commission Arts & Culture Commission

### PLANNING & DEVELOPMENT DEPARTMENT

City Hall Annex 33 Wakefield Street, Rochester, New Hampshire 03867-1917 (603) 335-1338 - Fax (603) 330-0023 Web Site: www.rochesternh.net

# M By\_\_\_\_\_

### MEMORANDUM

TO:

Applicants for a **SITE PLAN - NONRESIDENTIAL** 

FROM:

Planning & Development

DATE:

May 2019

**SUBJ:** 

Submission Requirements and Review Process for Formal Applications

We appreciate your interest in developing property in the City of Rochester and would like to make the application process as simple and pleasant as possible. Please review the following items carefully and feel free to contact our office with any questions, comments, or suggestions. For applicants/agents who are not highly familiar with the review process in Rochester it is strongly recommended that you speak with the Planning Department (603-335-1338) about the submission process before preparing an application.

- \* <u>Please note.</u> On any significant site plans and on major subdivisions, especially those involving a new road, a preliminary meeting with staff and/or a preliminary (conceptual or preferably design review) discussion with the Planning Board prior to engineering the project is <u>strongly encouraged</u>. In most cases, initial site layout or proposed lot and road locations will change as a result of the City's review and you will save time and money if you wait to do the engineering until you receive this feedback. <u>A separate application form is used for preliminary applications</u>.
- A) The applicant must submit all of the following items in order for the application to be considered and processed as a formal application (see exception/clarification at the end):
  - 1) Completed application form (blank attached) 4 copies
  - 2) Written narrative about the proposed project addressing the scope of operation, purpose, justification, and impacts (a simple letter of intent may suffice) 4 copies
  - Complete set of drawings on  $11" \times 17"$  sheets -2 sets folded in half
  - 4) Complete sets of full size drawings as described in the regulations (a mylar is not required)
    -3 sets
  - 5) Drainage, traffic, and other studies as appropriate -2 copies

- Completed checklist (corresponding to Section II.5.A. of the Site Plan Regulations or 6) Section 4 of the Subdivision Regulations, blank attached) filled out by applicant - 1 checklist
- All items specified on the checklist (5, above) and in the regulations must be submitted 7) unless they are not applicable or a waiver is requested and approved. For site plans please be sure to include information on lighting, signage, and architecture, as specified.
- Application fee (see fee schedule). Checks or money orders should be made out to "City of 8) Rochester".
- 9) Completed abutter's list. All parcels of land which are contiguous to the subject property at any point or which would be contiguous if not for an intervening road or stream must be listed. The list is completed by the applicant directly from information on the computer terminal located in the Assessor's Office. The list may not be filled out more than 5 days prior to the application deadline. Please note that holders of conservation or preservation easements must also be notified. If there are any they must be included on the abutter's list. One original only. The applicant must pay the City of Rochester the current postal rate for a certified letter to be mailed to everyone on the abutter list. The Planning Department will generate the public hearing notice and take it to the post office to be mailed certified. The applicant shall supply two (2) mailing labels for each name on the abutter list.
- 10) Requests for waivers, if any. The applicant may request waivers from submission requirements and design standards. Waivers are granted by the Planning Board at its discretion. Any request must be submitted by the applicant in writing specifying the regulation number and reason for the request. If you believe that obtaining a waiver will improve your project we encourage you to apply for it. Four (4) copies or 1 copy if requested on checklist
- Please submit the four (4) application packages application form, narrative, and folded 11) 11x17 drawings (and waivers if submitted as a separate memo) - with each clipped Staff will inform you after the TRG meeting how many final together as one set. application packages to submit for the Planning Board.
- If all necessary items are not submitted, such that the application cannot be accepted as 12) complete, the application will be treated as a preliminary application. However, at the discretion of the Planning Board, various items which can be reviewed fairly independently and readily inserted into an engineered plan - such as landscaping, lighting, signage, and architecture - may be submitted later, after plan acceptance, provided they are submitted in a form and timeframe to allow for full review prior to final action. Consult the Planning Department for more information. In addition, particular items - such as the drainage report, for example - may be submitted after the application deadline but prior to the Planning Board meeting and not affect acceptance, if the timeframe for submittal of those items is approved in advance by the Planning Department.
- B) Agents (or applicants) must attend the Technical Review Group meeting held one week after the application deadline. The applicant or agent must attend the Planning Board meeting.

- C) The application must comply with all of the following: the City of Rochester Site Plan Regulations or Subdivision Regulations, as appropriate, unless a waiver is obtained; the City of Rochester Zoning Ordinance unless a variance is obtained; and all other applicable local, state, and federal regulations.
- D) The project must be built and executed exactly as specified in the approved application package unless modifications are subsequently approved. All of the documentation submitted in the application package will be considered part of the approval unless otherwise updated, revised, or superseded.
- E) The application may be subject to the following requirements, fees, and assessments:
  - 1) A small monumentation fund fee will be assessed on all projects that are not surveyed using the New Hampshire State Plane Coordinate System.
  - A connection fee will be imposed on all projects that tie into the City's water or sewer 2) system.
  - Where drainage systems, roads, sidewalks, or other infrastructure impacted by the project 3) are substandard the applicant may be required to upgrade these facilities or contribute to an upgrade.
  - Payment for inspection fees as determined by the Department of Public Works. 4)
  - 5) Reimbursement of any out-of-pocket expenses incurred by the City in evaluating the project.
  - A sewer impact contribution must be paid prior to the issuance of a certificate of 6) occupancy. The sewer impact is a one time payment of \$2.00 per gallon for average daily flow for new connections to City sewer or increases in flow.
  - 7) The Planning Board may impose other requirements, fees, and assessments, as appropriate.
- F) A pre-construction meeting will be required for all projects that involve significant ground disturbance. The applicant will be required to sign pre-construction and inspection fee agreements after project approval. For projects substantial in scope the applicant may be required to enlist the services of the design engineer to inspect and certify the work. After construction is completed the applicant must submit as-built plans to the City.

Once again, please feel free to contact our department with any questions. Thank you for your cooperation.





# NONRESIDENTIAL SITE PLAN APPLICATION

# City of Rochester, New Hampshire

	ditional use needed? Yes: No: <u>X</u> Unclear:
(If so, we	encourage you to submit an application as soon as possible.
Property information	
Tax map #: 209 ; Lot #('s): 1	; Zoning district: Granite Ridge
Property address/location: 4 Little Falls	Bridge Road
Name of project (if applicable): Propose	ed Car Wash
Size of site: 3.59 acres; overlay z	zoning district(s)? Aquifer Protection Overlay District
Property owner	
Name (include name of individual): 1	05 Farmington, LLC, Attn. Scott Haley
Mailing address: 322 Reservoir Street, Need	nam, MA 02494
Telephone #: _781-675-2048	Email: shaley@waterstonepg.com
Applicant/developer (if different fi	rom property owner)
Name (include name of individual): Ji	m Waterman, GR Development
Mailing address: 7 Benedict Place, Greenwic	h, CT 06830
Telephone #: _978-337-9660	Email: jim.waterman@washvillecarwash.com
Engineer/designer	
Name (include name of individual): E	rik Poulin, P.E., Jones & Beach Engineers, Inc.
Mailing address: PO Box 219, Stratham, NH 03	9885
Telephone #: 603-772-4746	Fax #:
Email address: epoulin@jonesandbeach.com	Professional license #: 16669
Proposed activity (check all that a	
New building(s): X Site devel	opment (other structures, parking, utilities, etc.): <u>×</u>
Addition(s) onto existing building(s):	Demolition: Change of use:

Describe proposed activity/use: To propose a 4,200 S.F. car wash development on Tax Map 209, Lot 1.
Describe existing conditions/use (vacant land?): Previously occupied by one single-family home, house demolished, currently vacant.
Utility information
City water? yes X no; How far is City water from the site?
City sewer? yes X no; How far is City sewer from the site? 24'
If City water, what are the estimated total daily needs? 8,510 gallons per day
If City water, is it proposed for anything other than domestic purposes? yes x no
If City sewer, do you plan to discharge anything other than domestic waste? yes <u>x</u> no
Where will stormwater be discharged? to rear of property. woodlands to North
Building information  Type of building(s): Commercial Car Wash
Building height: 27' - 11 1/2" Finished floor elevation: 263.70
Other information # parking spaces: existing: 0 total proposed: 29 ; Are there pertinent covenants? Yes
Number of cubic yards of earth being removed from the site 0 - fill site
Number of existing employees: 0; number of proposed employees total: 2; Check any that are proposed: variance; special exception; conditional use
<u>Wetlands</u> : Is any fill proposed? <u>№</u> ; area to be filled:; buffer impact?

Proposed <u>post-development</u> disposition of site (should total 100%)					
	Square footage	% overall site			
Building footprint(s) – give for each building	4,200	5.6%			
Parking and vehicle circulation	30,749	41.5%			
Planted/landscaped areas (excluding drainage)	40,265	54.5%			
Natural/undisturbed areas (excluding wetlands)	2,000	2.7%			
Wetlands	0	0			
Other – drainage structures, outside storage, etc.	3,466	4.7%			

Comments			
Please feel free to add any comment	s, additional in	nformation, or requests for waivers here	∋:
Figure 1 and 1	googlook		
Submission of application This application must be signed by the property owner), and/or the agent.	e property owr	vner, applicant/developer (if different fro	m
knowledge all of the information on the materials and documentation is true a property owner)/as agent, I attest that	e Plan Regulation is application in and accurate.	tions and attest that to the best of my form and in the accompanying applicate As applicant/developer (if different from	
and the second	·	Date: 06-20-22	_
Signature of applicant/developer:	OA aff	Pachor	PELDALONA
Signature of agent:	2	Date: 6/20/22	
	Anno mana manakahan manakahan	Date: 6/20/22	
Conservation Commission, Planning L boards and agencies to enter my propincluding performing any appropriate in post-approval phase, construction phase specifically to those particular individu	nchester Planni Department, and perty for the puri inspections duri ase, and occup als legitimately ject. It is under ace when enter	urpose of evaluating this application uring the application phase, review phase pancy phase. This authorization appliedly involved in evaluating, reviewing, or erstood that these individuals must use a caring the property.	se, s
	U	Date:06-20-22	

# Site Plan Checklist (residential and nonresidential)

\*To be filled out by applicant/agent (with notes to be inserted by staff)

See regulations for other specific requirements

City of Rochester Planning & Development Department

Project Name: Proposed Car Wash			209	Lot: 1 Date: 6/21/22		
Applicant/agent: Jones & Beach Engineers			ature:_	8/	V	<b>/</b>
(Staff review by:		_ Date	Date:			
General items	Yes	No	N/A	Waive Regu		Comments
4 sets completed application	X					
Total application fee	X					
4 copies of narrative	X				-	
3 sets of full-size plans	X					
2 sets of 11 X 17 reductions	X					
Completed abutters list	X					
Copy of existing covenants, easements, deed restrictions	X				(	
<ul> <li>Plan Information</li> <li>Basic information including:</li> <li>Title sheet</li> <li>Name of Project</li> <li>Date</li> <li>North arrow</li> <li>Scale</li> <li>Legend</li> <li>Revision block</li> <li>Vicinity sketch -not less than 1" = 1,000</li> </ul>	X				``	
Name and address of developer/applicant	X					<u>-</u>
Name, stamp, and NH license # of land survey, engineer, and/or architect	X					
City tax map & lot #'s	X					
Notation on plans: "For more information about this site plan contact"	X					

General Items Continued				Waive		
Approval block (for signature by staff attesting to Planning Board approval)	Yes X	No	N/A	Reque	ested ———	Comments
References to neighboring plans and subdivisions					-	
Surveyed property lines including: <ul> <li>existing and proposed bearings</li> <li>existing and proposed distances</li> <li>pins, stakes, bounds</li> <li>monuments</li> <li>benchmarks</li> </ul>	X					
Include error of closure statement	X					
Information on abutting properties:  owner name owner address tax map and lot # square footage of lots approximate building footprints use	X					
<b>Zoning</b> Zoning designations of subject tract and in vicinity of tract	X					
Zoning requirements for district:  • frontage  • lot dimensions/density  • all setbacks  • lot coverage	X					
Zoning overlay districts	X					
Existing Topographic Features: Contour lines a (not to exceed two-foot Intervals, except on steep slopes) and spot elevations	X					
Soil types and boundaries	X					
Soil test pit locations, profiles, and	X					
Depth to water table and ledge Percolation test locations and results						

ontinu	red:		Waive	er	
Yes	No	N/A	Requ	ested 	Comments
		X			
X					
X				<del>,</del>	
X					
X					
X					
		X			
		X		-	
X					
X					
X					
X					
	Yes		Yes         N/A           N/A         N/A           N/A	Yes         No         N/A         Reequal (a)           Image: Control (a)         Image	Yes         No         N/A         Requested

Circulation and Parking Plans Co.	Waiver				
Number of parking spaces • required by ordinance	Yes	No	N/A	Requ	ested Comments
• proposed					
Parking layout and dimensions of spaces	X				<del></del>
Handicap spaces	X				
Loading area			X		
Pedestrian circulation plan (including existing sidewalks in vicinity, if any)	X				
Bicycle rack, if appropriate			X		
Buffers, landscaping & screening	X				
Snow storage areas/plan	X				
<u>Utilities</u> Show all pertinent existing and proposed p Water lines/well (with protective radius)	rofiles,	elevat	ions, m	naterials	s, sizes, and details
		- elevat	[] []		s, sizes, and details
,					
Sewer lines/septic and leaching areas	X				
Pump stations			X		
Stormwater management system: pipes, culverts,, catch basins detention/retention basins, swales, rip rap, etc.	X				
Fire hydrant location(s) and details			X		
Electric, telephone, cable TV (underground or overhead)	X				
Gas lines	X				
Fire alarm connections			X		
Treatment of solid waste (dumpsters?)	X				
Handing of oil, grease, chemicals	X				<del></del>

<u>Landscaping Plan</u>	Yes	No	N/A	Waive Reque	
Demarcation of limits of construction, clear delineation of vegetation to be saved and strategy for protecting vegetation	X				
Proposed ground cover, shrubbery, and trees including:  • botanical and common names  • locations and spacing  • total number of each species  • size at installation	X				
Planting plan (size of holes, depth of planting, soil amendments, etc.)	X				
Irrigation: system? soaker hose? Manual? undergrou	X und, et	 c.			
Protection of landscaping from vehicles (Curb stops, berm, railroad ties, etc)	X				
Specification all finished ground surfaces and edges (greenspace, mulch, asphalt, concrete, etc.)	×				
Fencing/screening	X				
Signage Location and type of signs:  Attached to building Freestanding Directional, if appropriate	X				
Dimensions of signs:  Height Area Setback	X				
Elevation drawings with colors & materials	X				
Type of Illumination, if proposed	X				

			Waiver	
Yes	No	N/A	Requested	Comments
X				
X				
X				
X				
X				
X				
iter X				
X				
) X				
X				
X				
		X		
	X X X X X x x x x x			Yes         No         N/A         Requested           X



### Letter of Authorization

I, Jim Waterman, GR Development, 7 Benedict Place, Greenwich, CT 06830, developer of property located in Rochester, NH, known as Tax Map 209, Lot 1 & Tax Map 216, Lot 12, do hereby authorize Jones & Beach Engineers, Inc., PO Box 219, Stratham, NH, to act on my behalf concerning the previously mentioned property. The parcel is located on 105 Farmington Road & 4 Little Falls Bridge Road in Rochester, NH.

I hereby appoint Jones & Beach Engineers, Inc., as my agent to act on my behalf in the review process, to include any required signatures.

	h Ver	
Witness	Jim Waterman	Date
	GR Development	



### Letter of Authorization

105 Farmington Rd LLC, 322 Reservoir Street, Needham, MA 02494, owner of property located in Rochester, NH, known as Tax Map 209, Lot 1, do hereby authorize Jones & Beach Engineers, Inc., PO Box 219, Stratham, NH, to act on my behalf concerning the previously mentioned property. The parcel is located on 105 Farmington Road in Rochester, NH.

We hereby appoint Jones & Beach Engineers, Inc., as my agent to act on my behalf in the review process, to include any required signatures.

	Scott Haley	06-20-22
Witness	105 Farmington Rd, LLC	Date



### WARRANTY DEED

KNOW ALL PERSONS BY THESE PRESENTS that I, Rudolph A. Tetreault, of 105 Farmington Rd., Rochester, County of Stratford and state of New Hampshire, a single person, for consideration the receipt of which is hereby acknowledged, grant to 105 Farmington Rd. LLC, a Delaware limited liability company having a mailing address of 322 Reservoir St., Needham, MA 02494 with warranty covenants the following:

A certain tract or parcel of land with building thereon situate in Rochester, County of Strafford and State of New Hampshire, more particularly bounded and described as follows:

Beginning at an iron pipe in the ground on the easterly side line of relocated Route 11 at the southwesterly corner of the premises herein conveyed land at of one Page; then running northerly three hundred sixty (360) feet, more or less, along Route 11 to an iron pipe at other land now or formerly of Rudolph and JulieTetreault; then turning and running easterly (crossing the now abandoned portion of the old Farmington Road) and continuing one hundred twenty-one (121) feet, more or less, by land of said Tetreault to land of the Boston and Maine railroad; then turning and running southerly three hundred fifty-five (355) feet, more or less, by land of said railroad to a stone wall at land of said Page; then turning and running westerly two hundred forty-one (241) feet, more or less, by land of said Page along a stone wall to its end and then continuing westerly to relocated Route 11 and the point of beginning.

Meaning and intending to convey the premises described in the deed of Joseph E LaMontagne and Dorothy M LaMontagne to Rudolph A. Tetreault and Julie Tetreault dated November 10, 1978 and recorded in the Strafford County Registry of Deeds at Book 1025 Page 848. Rudolph Tetreault is the survivor of himself and Julie Tetreault who died on March 15, 1988 and whose death certificate is recorded in the Strafford County Registry of Deeds at book 1494, Pag256.

Grantor hereby releases his homestead rights.

Witness my hand this 22nd day of June 2015

Witness

Rudolph A. Tetreault

Matriault

State of New Hampshire Strafford, ss

Personally appeared Rudolph A. Tetreault, known to me or satifactorily proven to me, and acknowledged the foregoing deed to be his voluntarily act and deed this day of June, 2015.

Notary Public/ Justice of the Peace





Customer Full Name	Washville
Office Address	1 Carwash Ln
City, State, Zip Code	Riverhead NY
Phone Number	0
I HOTE HUMBEI	
Email Address	0
10. In the 1881 1881 18 All All All Andreas An	O the same is contained the same of the sa
Email Address Site Name, Store #	0 Riverhead NY
Email Address Site Name, Store # Shipping Street Address	<enter></enter>
Email Address  Site Name, Store # Shipping Street Address	ny ark i par e migraen





### SITE INPUT

KPI Input Fields	1000	Data input	Notes & Rec	mmendations:	THE BUILDING
Expected Annual Tunnel Volume:		140,000	Typical new site	volumes range from 80-150,000 ye	ar 1.
Conveyor Speed:		130	This is the avera	e chain speed set in the controller.	
Average Length of Vehicle:		17	Range between	5-18, longer lengths increase wate	r use per car.
Average Operating Hours Per Day:		12	Hours of Operat	on Effect Daily Usage Breakdowns	vs Annual Usage Stats.
Water & Sewer Cost Per 1000 Gallons:		\$15.00	If Rates Are Unk	own, Use Range of \$10-17 Per 100	0 Gallons.
Regional/Seasonal Market Considerations:	Summer	Fall	Winter	Spring !	
	40%	20%	30%	10%	

Each market varies as to the seaonality of business, these fields allow for adjustments to be made accordingly. If the market knowledge is yet to be determined the standards may be applied which include; climates with snow typically peak in the winter and have lows in the fall, southern climates often peak around bug heavy seasons and coastal climates may be normalized across the seasons.

### Water Use Estimate Data Input Fields

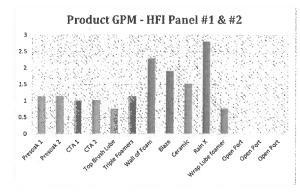
### **Explanatory Information:**

The water water use is largely calculated by the backroom support piece capacities because this is where the actual usage is determined. For example: A rain bar may have a capacity of 10 gallons per minute based on the quantity of holes, however if a solenoid or product supply only allows for 7 gallons per minute the actual flow rate of the rain bar will be the lesser amount. For this reason we utilize the asset that provides the more accurate output.

### Section 1: Dilution Station - Water Use Estimate Data Input Fields

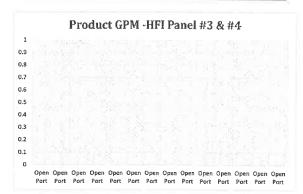
HFI Board #1:		Soft Water		
Solenoid	Application	Injector	GPM	
Port 1	Presoak 1	Dark Blue 2.25	2.25	
Port 2	Presoak 2	Dark Blue 2.25	2.25	
Port 3	CTA 1	Gray 2 0	2	
Port 4	CTA 2	Gray 2.0	2	
Port 5	Top Brush Lube	Orange 1 50	1.5	
Port 6	Triple Foamers	Dark Blue 2.25	2.25	
Port 7	Wall of Foam	Purple 4.50	4.5	

HFI Boa	rd #2:	Hard Water		
Solenoid	Application	Injector	GPIV	
Port 1	Blaze	Pink 3.75	3.75	
Port 2	Ceramic	Light Blue 3.00	3	
Port 3	Rain X	Dark Green 5.50	5.5	
Port 4	Wrap Lube foamer	Orange 150	1.5	
Port 5	Open Port	Select	0	
Port 6	Open Port	Select	0	
Port 7	Open Port	Select	0	



HFI Board 3:		Select Water Type:		
Solenoid	Application	Injector	GPM	
Port 1	Open Port	Select	0	
Port 2	Open Part	Select	0	
Port 3	Open Port	Seléct	0	
Port 4	Open Port	Select	0	
Port 5	Open Port	Select	0	
Port 6	Open Port	Select.	0	
Port 7	iOpen Part	Select	0	

HFI Bo	ard 4:	Select Water Type:			
Solenoid	Application	Injector	GPM		
Port 1	Open Port	Select	0		
Port 2	Open Port	Select	0		
Port 3	Open Port	Select	0		
Port 4	Open Port	Select.	0		
Port 5	Open Port	Select	0		
Port 6	Open Port	Select	0		
Port 7	Open Port	Select	0		



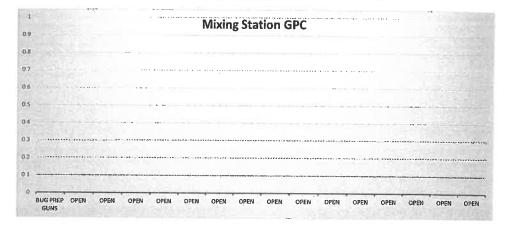
### SITE INDIT

### **Explanatory Information:**

Dosatron & Hyrdrominder dilution stations have high flow rates which means bay applicators can have lower flow rates. In this situation the applicator rate should be entered into the right column to reflect the lower usage. Note: Charts show gallons per car (GPC) usage, not gallons per minute (GPM).



Mixing St	tations: Dosatron & Hydromin	der Units			3.9
Unit#	Application	Model #	Select Water Type:	Maximum GPM:	Applicato (GPM)
1	Bug Prep Guns	Hydrominder Double	Soft Water	9	0
2	Open	Select Dilution Station	Select Source:	0	0.
3	Open	Select Dikition Station	Select Source:	0	0
4	Open	Select Dilution Station	Select Source:	0	0
5	Open	Select Dilution Station:	Select Source:	0	0
6	Open	Select Dilution Station.	Select Source:	0	0
7	Open	Select Dilution Station:	Select Source:	0	0
8	Open	Select Dilution Station	Select Source	0	0
9	Open	Select Dilution Station	Select Source:	0	0
10	Open	Select Dilution Station	Select Source:	0	0
11	Open	Select Dilution Station	Select Source	0	0
12	Open	Select Dilution Station	Select Source.	0	0
13	Open	Select Dilution Station	Select Source.	0	0
14	Open	Select Dilution Station	Select Source	0	0
15	Open	Select Dilution Station.	Select Source	0	0
16	Open	Select Dilution Station	Select Source:	0	0

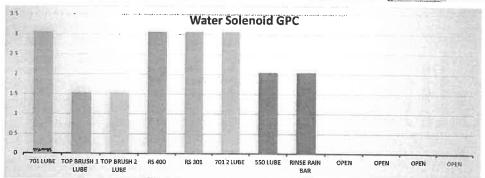


### Section 2: Production Units - Water Use Estimate Data Input Fields

### Explanatory Information:

Production equipment data is focused on back room pieces that are necessary for the operation of vehicle wash process but are not involved in any chemical application. Water valves are often used with reclaim water to provide additional wetting to vehicle surfaces and are accounted for individually.

			Water Sole	noid Valve			Part of Manager
Unit#	Application	Select Water Type:	Applicator Restriction (GPM)	Unit #	Application	Select Water Type:	Applicator Restriction (GPM)
1	701 Lube	Reclaim	6	7	550 Lube	Reclaim	4
2	Top Brush 1 lube	Reclaim	3	8	Rinse Rain Bar	Hard Water	4
3	Top Brush 2 lube	Hard Water	3	9	Open	Select Source	0
4	RS 400	Reclaim	6	10	Open	Select Source:	0
5	RS 301	Reclaim	6	11	Open	Select Source	0
6	701 2 Lube	Reclaim	6	12	Open	Select Source.	0



NATIONAL CAR WASH SOLUTIONS, INC.

WWW.NCSWASH.COM

### **Reverse Osmosis System**

### **Explanatory Information:**

Reverse Osmosis systems produce RO water and RO Reject Water based on an hourly maximum output. This water is stored in tanks and then pumped to the bay for application. The actual amount of water used is most directly related to the quantity/type of application devices, volume of vehicles washed, chain speed and vehicle length. For this reason the calculation is based on use rather than production capacity. RO Reject water is by-product of the process. Whether the reject water is used during the wash process or goes to drain it is also accounted for in total water usage statistics.



	ource	Soft Water	
Unit #	Application	Applicator Restrictio (GPM)	n
1	Rain Bar #2	4	*Note
2	Mirror Rinse #2	2	*Note
3	Select RO Applicator	0	
4	Select RO Applicator:	0	
5	Select RO Applicator:	0	
6	Select RO Applicator:	O	
	1 2	Jnit # Application  1 Rain Bar #2  2 Mirror Rinse #2  3 Select RO Applicator  4 Select RO Applicator:  5 Select RO Applicator:	Application

**RO System Production Rate** 

\*Note: RO Systems range from 50-80% RO production rates, if unsure use 60%.

\*Note #1: Rain Bars are typical rated between 4-8 GPM, if unsure use 6 GPM

\*Note #2: Mirror Rinse Applicaters are typical rated 1-2 GPM, if unsure use 1.5 GPM

### **High Pressure Pumping Stations**

80%

### **Explanatory Information:**

Pumping Stations are often supplied by reclaim water with hard city water being an alternate. The pump capacity is restricted by the application equipment in the bay so calculations are based on applicators, volume, chain speed and vehicle length. Applications include undercarriage wash, pre-rinse, side blasters, arches and trench flush systems (choose all that apply).

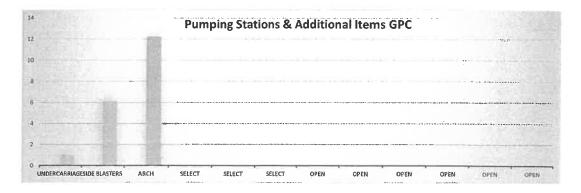
Unit#	Application	Select Water Type:	Pump Designation	Pump GPM (Capcity)	Applicator Restriction (GPM)
1	Undercarriage	Reclaim	#1	5	2
2	Side Blasters	Reclaim	#2	20	12
3	Arch	Reclaim	#3	35	24
4	Select	Select Source:	Select	0	0
5	Select	Select Source:	Select	0	0
6	Select	Select Source:	Select	0	0

### Additional Items

### **Explanatory Information:**

Any additional equipment that has not already been accounted for may be entered into this section. Choose all that apply and use the "Applicator Restriction" column to accurately reflect the GPM capacity in the bay.

Unit#	Application	Select Water Type:	Applicator Restriction (GPM)	Unit#	Application	Select Water Type:	Applicator Restriction (GPM)
1	Open	Select	0	4	Open	Select	0
2	Open	Select	0	5	Open	Select	0
3	Open	Select	0	6	Open	Select	0



### STATISTICAL MODELING

KPUmput Fields	Data Input
Expected Annual Tunnel Volume:	140,000
Conveyor Speed:	130
Average Length of Vehicle:	17
Average Operating Hours Per Day:	12
Water & Sewer Cost Per 1000 Gallons:	\$15.00

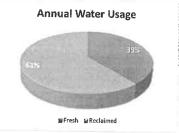


### **CATEGORICAL USAGE STATS**

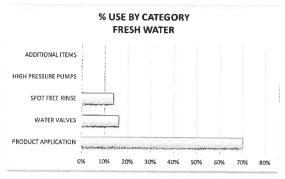
### **Explanatory Information:**

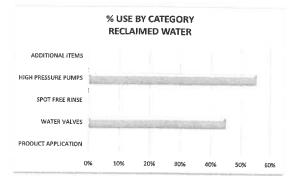
This data is used for many purposes; calculating water tap requirements, satisfying building or water departement requirements, and the sizing of reclamation systems or other equipment. Municipalities requirements account for water usage in gallonage or acre feet so both units are shown here and equivalent. In addition there are views into annual, monthly, daily volumes as well peak demand vs average.

ANNUAL WATER USAGE ESTIMATE	GALLONS	ACRE FEET	%
FRESH WATER - *FROM WATER UTILITY OR WELL	3,105,900	9.53	39%
RECLAIMED WATER - *ONSITE SYSTEM RE-USE	4,926,601	15.12	61%
TOTAL WATER USAGE	8,032,501	24.65	100%
FRESH WATER - *FROM WATER UTILITY OR WELL	3105900		
WATER & SEWER COST PER 1000 GALLONS	\$ 15.00		
ANNUAL WATER & SEWER EXPENSE	\$ 46,588.51		

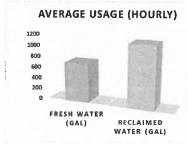


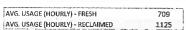
WATER USAGE BY CATEGORY	FRESH (GAL)	ŘEČLAIM (GAL)	%
PRODUCT APPLICATION	2,177,700	(4)	27%
WATER VALVES	499,800	2,213,400	34%
SPOT FREE RINSE	428,400		5%
HIGH PRESSURE PUMPS	-	2,713,200	34%
ADDITIONAL ITEMS			0%

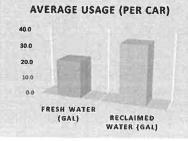




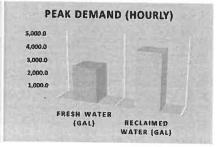
### **USAGE BREAKDOWN - PERIODIC VIEW**







AVERAGE USAGE (PER CAR) - FRESH	22
AVERAGE USAGE (PER CAR) - RECLAIMED	35



allebraria di hara sa managanta di managanta di Milanda da Managanta d	
PEAK DEMAND (HOURLY) - FRESH	2,662
PEAK DEMAND (HOURLY) - RECLAIMED	4,223

### NOTES - AVERAGE HOURLY USAGE:

This data is built with the annual volume estimate filtered with hours of operation, water usage statistics and daily volume expectations based on conveyor speed.

### NOTES - AVERAGE HOURLY USAGE:

Per car usage incorporates the gallon per minute data with average and gate times. Sate times derive from the conveyor speed and average length of vehicle to determine the amount of time each application will be turned on. This reduces the gallon per minute capacity of each application to the running time or gate time.

### NOTES - AVERAGE HOURLY USAGE:

Peak demand shows the full potential of the car wash at maximum possible volume. This reflects the highest possible water requirement which is used for calculating flow rates on water taps, backflow preventors, and other vital system components.

Customer Full Name	Washville
Site Name, Store #	Riverhead NY
Shipping Street Address	<enter></enter>
City, State, Zip Code	<enter></enter>
Date:	O O

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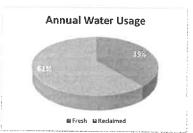
KPI Input Fields	Data	Input
Expected Annual Tunnel Volume:	nnel Volume: 1	
Conveyor Speed:	130	
Average Length of Vehicle:	17	
Average Operating Hours Per Day:	12	
Water & Sewer Cost Per 1000 Gallons:	\$	15.00

### **CATEGORICAL USAGE STATS**

### **Explanatory Information:**

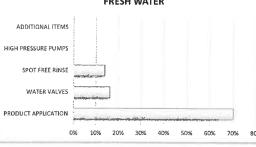
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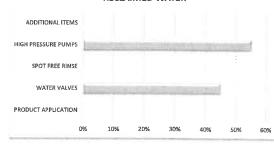


WATER USAGE BY CATEGORY	FRESH (GAL)	RECLAIM (GAL)	%
PRODUCT APPLICATION	2,177,700		27%
WATER VALVES	499,800	2,213,400	34%
SPOT FREE RINSE	428,400	-	5%
HIGH PRESSURE PUMPS	-	2,713,200	34%
ADDITIONAL ITEMS	-	2	0%

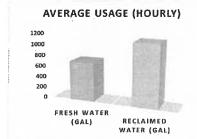




### % USE BY CATEGORY RECLAIMED WATER



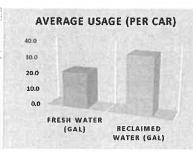
### **USAGE BREAKDOWN - PERIODIC VIEW**



port that the same and an analysis where the same and an analysis of the same and an a	
AVG. USAGE (HOURLY) - FRESH	709
AVG. USAGE (HOURLY) - RECLAIMED	1125

### NOTES - AVERAGE HOURLY USAGE:

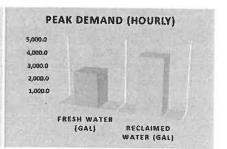
This data is built with the annual volume estimate filtered with hours of operation, water usage statistics and daily volume expectations based on conveyor speed.



### AVERAGE USAGE (PER CAR) - FRESH AVERAGE USAGE (PER CAR) - RECLAIMED 35

### NOTES - AVERAGE HOURLY USAGE:

Per car usage incorporates the gallon per minute data with average and gate times. Gate times derive from the conveyor speed and average length of vehicle to determine the amount of time each application will be turned on. This reduces the gallon per minute capacity of each application to the running time or gate time.



PEAK DEMAND (HOURLY) - FRESH	2,662
PEAK DEMAND (HOURLY) - RECLAIMED	4,223

### NOTES - AVERAGE HOURLY USAGE:

Peak demand shows the full potential of the car wash at maximum possible volume. This reflects the highest possible water requirement which is used for calculating flow rates on water taps, backflow preventors, and other vital system components.



April 13, 2022

NEX-2200053.00

Mr. Jim Waterman GR Development, LLC c/o Sevan Solutions 3025 Highland Parkway Suite 850 Downers Grove, Illinois 60515

Traffic report prepared for a identical car wash design for GR Development, LLC. The trip count for the proposed 105 Farmington Road car wash has been reviewed and found to be comparable.

**SUBJECT: Trip Generation Letter** 

Car Wash Renovation

607 Amherst Street (NH Route 101A)

Nashua, New Hampshire

Dear Mr. Waterman:

Greenman-Pedersen, Inc. (GPI) has prepared this letter to evaluate the expected trips associated with the proposed car wash renovation development to be located at 607 Amherst Street in Nashua, New Hampshire. The site is currently occupied by a 5,402(±) square foot car wash with four service bays/tunnels. The project consists of a full site renovation, and the construction of a new 4,403 (±) square foot car wash with one car wash tunnel. Additionally, secondary amenities consisting of self-service vacuum stations will also be provided. Primary access and egress are proposed to the site via two existing driveways on Amherst Street: one right-in only driveway and one right-out only driveway. Turn prohibitions are reinforced by the presence of a raised median on this section of Amherst Street. Secondary access and egress are provided in the rear of the property via a shared driveway/cross access connection with abutting properties and access to the traffic signal at the intersection of Amherst Street and Celina Avenue.

### **Trip Generation**

To estimate the volume of traffic to be generated by the proposed car wash development, trip-generation rates published by the ITE Trip Generation Manual<sup>1</sup> were researched. Land Use Code (LUC) 948 (Automated Car Wash) based on 4.403 square feet was used to estimate the proposed trip generation. In addition, the trip generation characteristics of the existing car wash site were developed utilizing the same methodology and applying LUC 948 based on 5,402 square feet. Table 1 summarizes the results of the trip-generation estimates and demonstrates the comparative trip characteristics of both the proposed and existing sites.

As shown in Table 1 below, the proposed car wash development is expected to generate 62 vehicle trips (31 entering and 31 exiting) during the weekday PM peak hour, and 134 vehicle trips (67 entering and 67 exiting) during the Saturday midday peak hour. On a daily basis, the proposed development is expected to generate 1,218 vehicle trips per day on a weekday and 1,166 vehicle trips per day on a Saturday. It should be noted that no reductions were taken for pass-by traffic, the portion of site generated vehicle-trips already present on the adjacent roadway system that turn into the site on impulse, or part of an overall trip elsewhere. Published pass-by rates for this land use are not available; however, pass-by trips typically account for a substantial component of vehicle-trips associated with commercial/retail developments.

By way of comparison with the current site, the proposed car wash development is expected to generate 14 fewer vehicle trips during the weekday PM peak hour, and 30 fewer vehicle trips during the Saturday midday peak hour. On a daily basis, the proposed development is expected to generate 278 fewer vehicle trips per day on a weekday and 264 fewer vehicle trips per day on a Saturday.

44 Stiles Road, Suite One

Trip Generation, 11th Edition. Institute of Transportation Engineers; Washington, DC; 2021.

TABLE 1
Trip-Generation Summary

Peak Hour/Direction	Proposed Trips <sup>a</sup>	Existing Trips <sup>b</sup>	Trip Decrease <sup>c</sup>
Weekday Daily:	1,218	1,496	-278
Weekday PM Peak Hour: Enter <u>Exit</u> Total	31 <u>31</u> 62	38 38 76	-7 <u>-7</u> -14
Saturday Daily:	1,166	1,430	-264
Saturday Midday Peak Hour: Enter <u>Exit</u> Total	67 <u>67</u> 134	82 <u>82</u> 164	-15 <u>-15</u> -30

<sup>&</sup>lt;sup>a</sup> ITE LUC 948 (Automated Car Wash) for 4.403 ksf.

Also included in this submission is the Traffic Impact Report (TIR) Threshold Worksheet for the City's use. Should you have any questions, require additional information, or if I can be of any assistance during the review process, please feel free contact me at (978) 570-2968.

Sincerely,

**GREENMAN-PEDERSEN, INC.** 

Heather L. Monticup, P.E.

Assistant Vice President / Director of Traffic Engineering - Land Development

### Attachments:

- 1. Trip Generation Data
- 2. Traffic Impact Report (TIR) Threshold Worksheet

<sup>&</sup>lt;sup>b</sup> ITE LUC 948 (Automated Car Wash) for 5.402 ksf.

<sup>&</sup>lt;sup>a</sup> Proposed Trips minus Existing Trips.

### Institute of Transportation Engineers (ITE)

### Land Use Code (LUC) 948 - Automated Car Wash

### General Urban/Suburban

Average Vehicle Trips Ends vs:

1,000 Sq. Ft. Gross Floor Area

Independent Variable (X): 4.403

WEEKDAY DAILY				Trip Decrease
ITE LUC 947 Weekday Daily Trip Rate ITE LUC 947 Weekday PM Trip Rate	=	ITE LUC 948 Weekday Daily Trip Rate ITE LUC 948 Weekday PM Trip Rate	Weekday Daily	-278
<u>108.00</u> 5.54	=	$\frac{(Y)}{14.20}$ $Y = 276.82$	PM Peak	-14
T = Y * 4.403		14.20	Saturday Daily	-264
T = 1218.85 T = 1,218 vehicle trips with 50% ( 609 vpd) entering a	nd 50%	( 609 vpd) exiting.	Saturday Peak	-30

### WEEKDAY EVENING PEAK HOUR OF ADJACENT STREET TRAFFIC

T = 14.20 \* (X)

T = 14.20 \* 4.403

T = 62.52

T = 62 vehicle trips

with 50% (31 vpd) entering and 50% (31 vpd) exiting.

(same distribution split as ITE LUC 947 during the weekday daily traffic)

### SATURDAY DAILY

 ITE LUC 947 Saturday Daily Trip Rate
 =
 ITE LUC 948 Saturday Daily Trip Rate

 ITE LUC 947 Saturday Midday Trip Rate
 ITE LUC 948 Saturday Midday Trip Rate

$$\frac{132.80}{15.25} = \frac{\text{(Y)}}{30.40}$$
 Y = 264.73

T = Y \* 4.403

T = 1165.6

T = 1,166 vehicle trips

with 50% (583 vpd) entering and 50% (583 vpd) exiting. (same distribution split as ITE LUC 947 during the saturday daily traffic)

### SATURDAY PEAK HOUR OF GENERATOR

T = 30.40 \* (X)

T = 30.40 \* 4.403

T = 133.85

T = 134 vehicle trips

with 50% (67 vph) entering and 50% (67 vph) exiting.

motor.

### Land Use Code (LUC) 948 - Automated Car Wash

### General Urban/Suburban

Average Vehicle Trips Ends vs:

1,000 Sq. Ft. Gross Floor Area

Independent Variable (X):

5.402

### WEEKDAY DAILY

ITE LUC 947 Weekday Daily Trip Rate ITE LUC 947 Weekday PM Trip Rate

ITE LUC 948 Weekday Daily Trip Rate ITE LUC 948 Weekday PM Trip Rate

108.00 5.54

Y = 276.82

T = Y5.402

T = 1495.4

T = 1,496vehicle trips

with 50% ( 748 vpd) entering and 50% ( 748 vpd) exiting.

(same distribution split as ITE LUC 947 during the weekday daily traffic)

### WEEKDAY EVENING PEAK HOUR OF ADJACENT STREET TRAFFIC

T = 14.20 \* (X)

T = 14.20\* 5.402

T = 76.71

T = 76vehicle trips

with 50% (38 vpd) entering and 50% (38 vpd) exiting.

### SATURDAY DAILY

ITE LUC 947 Saturday Daily Trip Rate ITE LUC 947 Saturday Midday Trip Rate ITE LUC 948 Saturday Daily Trip Rate

ITE LUC 948 Saturday Midday Trip Rate

$$\begin{array}{ccc}
132.80 & = & \underline{\text{(Y)}} \\
15.25 & & 30.40
\end{array}$$

Y = 264.73

T = Y5.402

T = 1430.07

T = 1,430vehicle trips

> with 50% (715 vpd) entering and 50% ( 715 vpd) exiting.

(same distribution split as ITE LUC 947 during the saturday daily traffic)

### SATURDAY PEAK HOUR OF GENERATOR

$$T = 30.40 * (X)$$

$$T = 30.40$$
 \* 5.402

T = 164.22

T = 164vehicle trips

> with 50% ( 82 vph) entering and 50% (82 vph) exiting.

FILE NO.\_\_\_\_

# CITY OF NASHUA, NH

Traffic Impa	ct Report (TIR) Th	resh	old Wor	ksheet	
Complete this form to determine Section	if your project requires a	Traffi	c Impact R	eport, as p	er City Code,
Project Name: Car Wash Remo	odel				
Type of Development: Non-Res	sidential				
Applicant: GR Development,	LLC			Owner	Agent
Location: Parcel ID: H-105					
Address: 607 Amherst Street		Phor	e Number:	978-570 GPI - He	-2968 eather Monticup
Roadway(s) Where Site Access  RESIDENTIAL DEVELOPM		Share	erst Street ed drivewa of Lot (seco	y on north	
Anticipated Land Use	Acreage to be Develor	ed	Number of Units		
CBD NON-CBD  Development Peak Hour and Ma  Trip Rate Source  ITE Code:  Other:	aximum Number of Gener	ated T	rips:	I	

# NON-RESIDENTIAL DEVELOPMENT

Anticipated Land Use	Project Size (Acres, Employees, GFA, Unit, Other)
948 - Automated Car Wash	4,403(±) square feet

**CBD** 

Non-CBD

# Development Peak Hour and Maximum Number of Generated Trips:

Trip Rate Source

ITE Code:

Other:

# PLEASE COMPLETE THE TABLE BELOW:

CONDITION	HOUR	ANTICIPATED GENERATED TRAFFIC (TRIP ENDS)	TIR THRESHOLD (TRIP ENDS)	TIR REQUIRED
ADJACENT ROADWAY PEAK HOUR	PM	Proposed/(Decrease) 62 / (-14)	75/HOURS	NO
DEVELOPMENT PEAK HOUR	SAT	Proposed/(Decrease) 134 / (-30)	100/HOURS	NO <sup>a</sup>
24-HOUR PERIOD	Weekday Saturday	Proposed/(Decrease) 1,218 / (-278) 1,166 / (-264)	1,200/24 HOURS	NO <sup>a</sup>
PERMANENT ROADWAY CLOSURE	N.A.	N.A.	N.A.	YES
TEMPORARY ROADWAY CLOSURE GREATER THAN 14 DAYS	Ñ.A.	N.A.	N.A.	YES
OTHER CONDITIONS			N.A.	

<sup>&</sup>lt;sup>a</sup> Net decrease in traffic; this is a renovation of an existing site, replacing the existing use with a same/similar use. Further, no reductions were taken for pass-by trips.

A-2

# ABUTTERS LIST (DIRECT)

### **AS OF**

### **JUNE 20, 2022**

### **FOR**

### 4 LITTLE FALLS BRIDGE ROAD, ROCHESTER, NH JBE PROJECT No. 21298.1

### **OWNERS OF RECORD:**

TAX MAP 209/LOT 1 105 FARMINGTON RD LLC 322 RESERVOIR ST NEEDHAM, MA 02494 BK 4302/PG 330 (06/22/15)

### **APPLICANT:**

GR DEVELOPMENT ATTN. JIM WATERMAN 7 BENEDICT PLACE GREENWICH, CT 06830

### **ABUTTERS:**

208/1-1 INFINITY ROCHESTER PROP LP % WS ASSET MGMT INC 33 BOYLSTON ST, STE 3000 CHESTNUT HILL, MA 02467

208/19-1 HERMITAGE PLACE LIMITED PARTNERSHIP PO BOX 648 CONCORD, NC 28025

216/11-2 CITY OF ROCHESTER 31 WAKEFIELD ST ROCHESTER, NH 03867-1916

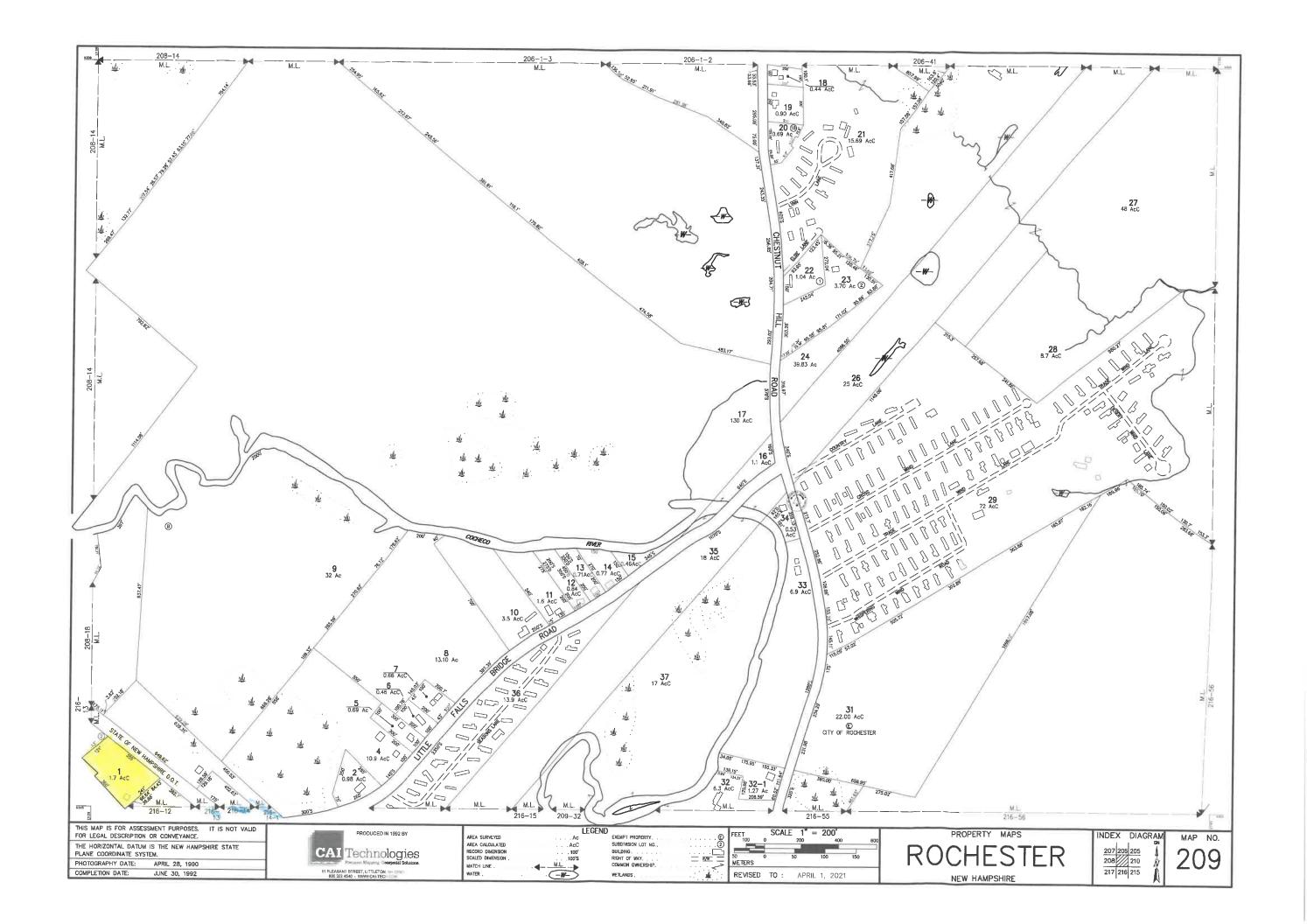
216/12 RALPH W. TORR REV TRUST OF 2000 RALPH W. TORR, TRUSTEE 283 CHESTNUT HILL RD ROCHESTER, NH 03867 216/13 STATE OF NEW HAMPSHIRE DEPT. OF TRANSPORTATION 1 HAZEN DR CONCORD, NH 03302

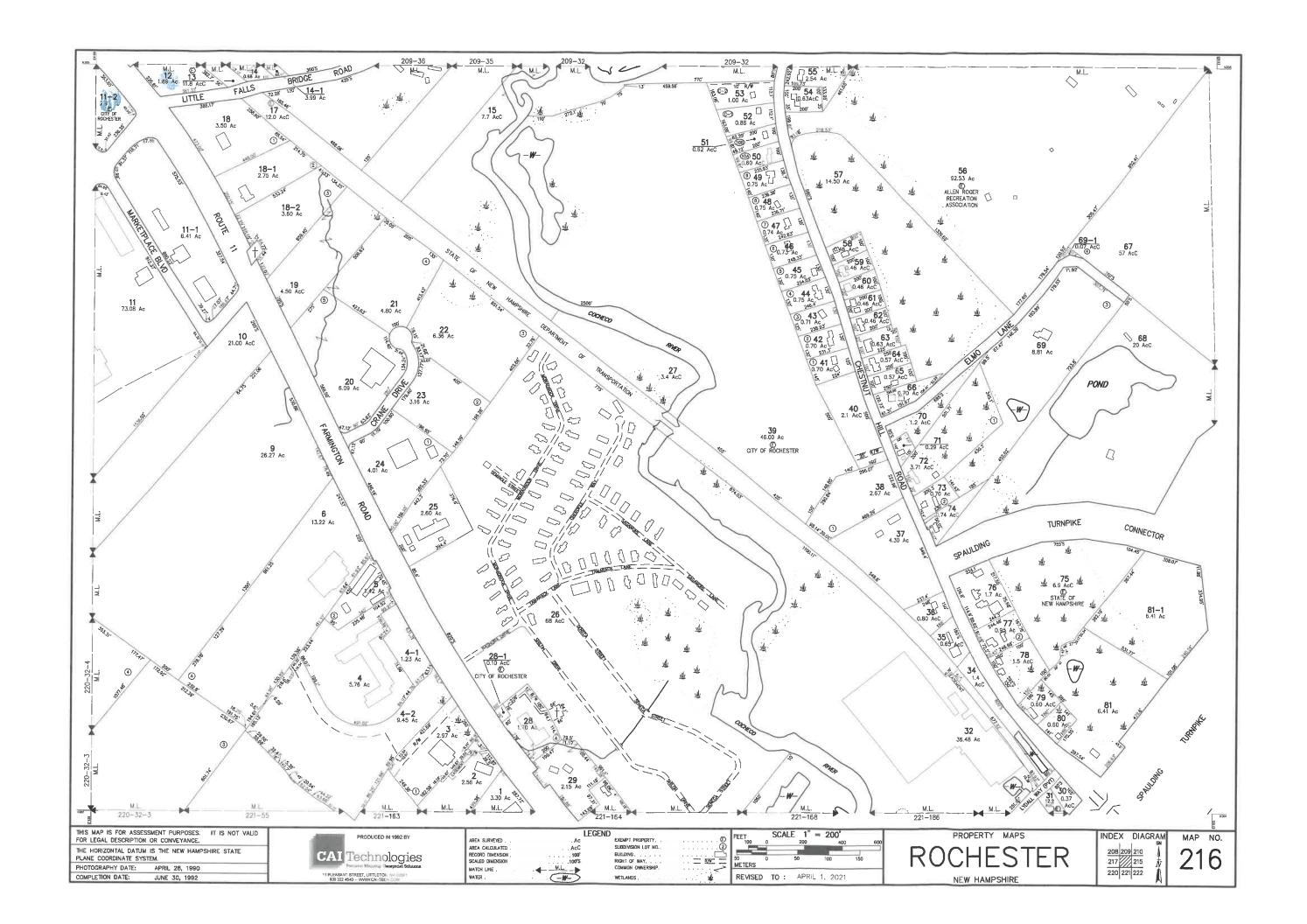
216/14 BRETT & SHANNON LANE 10 LITTLE FALLS BRIDGE RD ROCHESTER, NH 03867

216/14-1 MERRICK & DOLORES LANE 12 LITTLE FALLS BRIDGE RD ROCHESTER, NH 03867

### **ENGINEERS/SURVEYORS:**

JONES & BEACH ENGINEERS, INC. ATTN: ERIK POULIN, P.E. PO BOX 219 STRATHAM, NH 03885





FOR MORE INFORMATION ABOUT THIS SITE PLAN CONTACT: WAYNE MORRILL PHONE: (603) 772-4746

# WASHVILLE CAR WASH **TAX MAP 209, LOT 1** 105 FARMINGTON ROAD, ROCHESTER, NH

### SHEET INDEX

CS COVER SHEET

C1 EXISTING CONDITIONS PLAN (DOUCET SURVEY INC.)

C2 SITE PLAN

C3 GRADING AND DRAINAGE PLAN

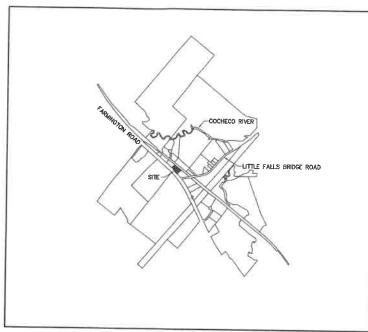
C4 UTILITY PLAN

L1 LANDSCAPE AND LIGHTING PLAN

D1-D5 DETAIL SHEETS

E1 **EROSION AND SEDIMENT CONTROL DETAILS** 

ARCHITECTURAL ELEVATIONS



LOCUS MAP SCALE 1" = 2000'

TYPE OF PERMIT

STATUS SUBMITTED:

PERMIT NO

DATED:

NHDOT DRIVEWAY PERMIT: NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION, DISTRICT SIX P.O. BOX 740

DURHAM, NEW HAMPSHIRE 0382 RESPONSIBLE CONSULTANT.

JONES & BEACH ENGINEERS, INC.

USEPA NPDES PHASE II CONSTRUCTION GENERAL PERMIT. NOTICE OF INTENT (NOI), AND NOTICE OF TERMINATION (NOT) TO BE FILED IN ACCORDANCE WITH FEDERAL AND LOCAL REGULATIONS PRIOR TO AND FOLLOWING CONSTRUCTION: EPA STORMWATER NOTICE PROCESSING CENTER MAIL CODE 4203M,

US EPA 1200 PENNSYLVANIA AVENUE, NW WASHINGTON, DC 20460 RESPONSIBLE CONSULTANT: JONES & BEACH ENGINEERS, INC. TYPE OF PERMIT

ROCHESTER SITE PLAN APPROVAL: CITY OF ROCHESTER PLANNING BOARD 31 WAKEFIELD ST ROCHESTER, NEW HAMPSHIRE 03867

(603) 335-7500
RESPONSIBLE CONSULTANT:
JONES & BEACH ENGINEERS, INC. DATED: EXPIRATION:

NHDES SEWER CONNECTION PERMIT NHDES - WASTEWATER ENGINEERING BUREAU 29 HAZEN DRIVE, P.O. BOX 95 CONCORD, NEW HAMPSHIRE 03302-0095 (603) 271-3503

RESPONSIBLE CONSULTANT

PROJECT PARCEL TAX MAP 209 LOT 1

<u>STATUS</u>

PERMIT NO.

DATED:

EXPIRATION

SUBMITTED: 06/20/22

7 BENEDICT PLACE

TOTAL LOT AREA 73,882 SQ. FT. 1.70 ACRES

APPROVED - ROCHESTER, NH

PLANNING BOARD

DATE:

APPLICANT / DEVELOPER

**GR DEVELOPMENT** 7 BENEDICT PLACE GREENWICH, CT. 03860 (978) 337-9660

CONTACT: JIM WATERMAN

CIVIL ENGINEER / SURVEYOR JONES & BEACH ENGINEERS, INC. 85 PORTSMOUTH AVENUE PO BOX 219 STRATHAM, NH 03885 (603) 772-4746 CONTACT: WAYNE MORRILL EMAIL: WMORRILL@JONESANDBEACH.COM

OWNER OF RECORD 105 FARMINGTON RD, LLC 322 RESERVOIR ST NEEDHAM, MA 02494-3154

WATER AND SEWER ROCHESTER PUBLIC WORKS DEPT. 45 OLD DOVER ROAD ROCHESTER, NH 03867 (603) 332-4096

**ELECTRIC** EVERSOURCE 740 N COMMERCIAL ST PO BOX 330 MANCHESTER, NH 03105-0330 (800) 662-7764

**TELEPHONE** CONSOLIDATED COMMUNICATIONS 100 TRI CITY ROAD SOMERWORTH, NH 03878 ATTN: DAVE KESTNER (603) 743-1114

**CABLE TV** COMCAST COMMUNICATION CORPORATION 334-B CALEF HIGHWAY EPPING, NH 03042-2325 (603) 679-5695



THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN

ERMISSION FROM JONES & BEACH ENGINEERS, INC. (JBE). ANY ALTERATIONS, AUTHORIZED OR OTHERWISE, SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO JIHE



0	6/20/22	ISSUED FOR REVIEW	EJH
REV.	DATE	REVISION	BY

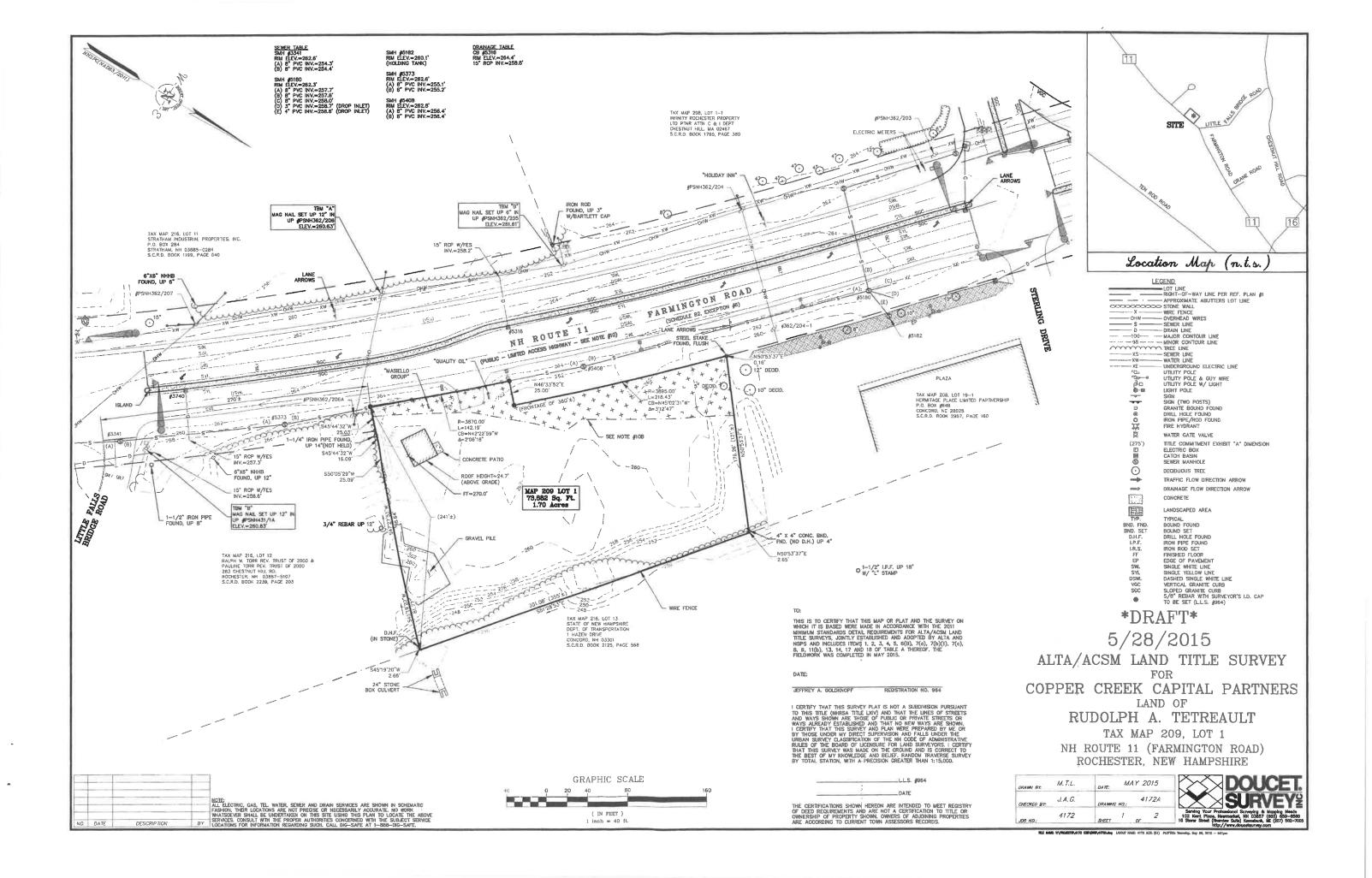
Jones & Beach Engineers, Inc.

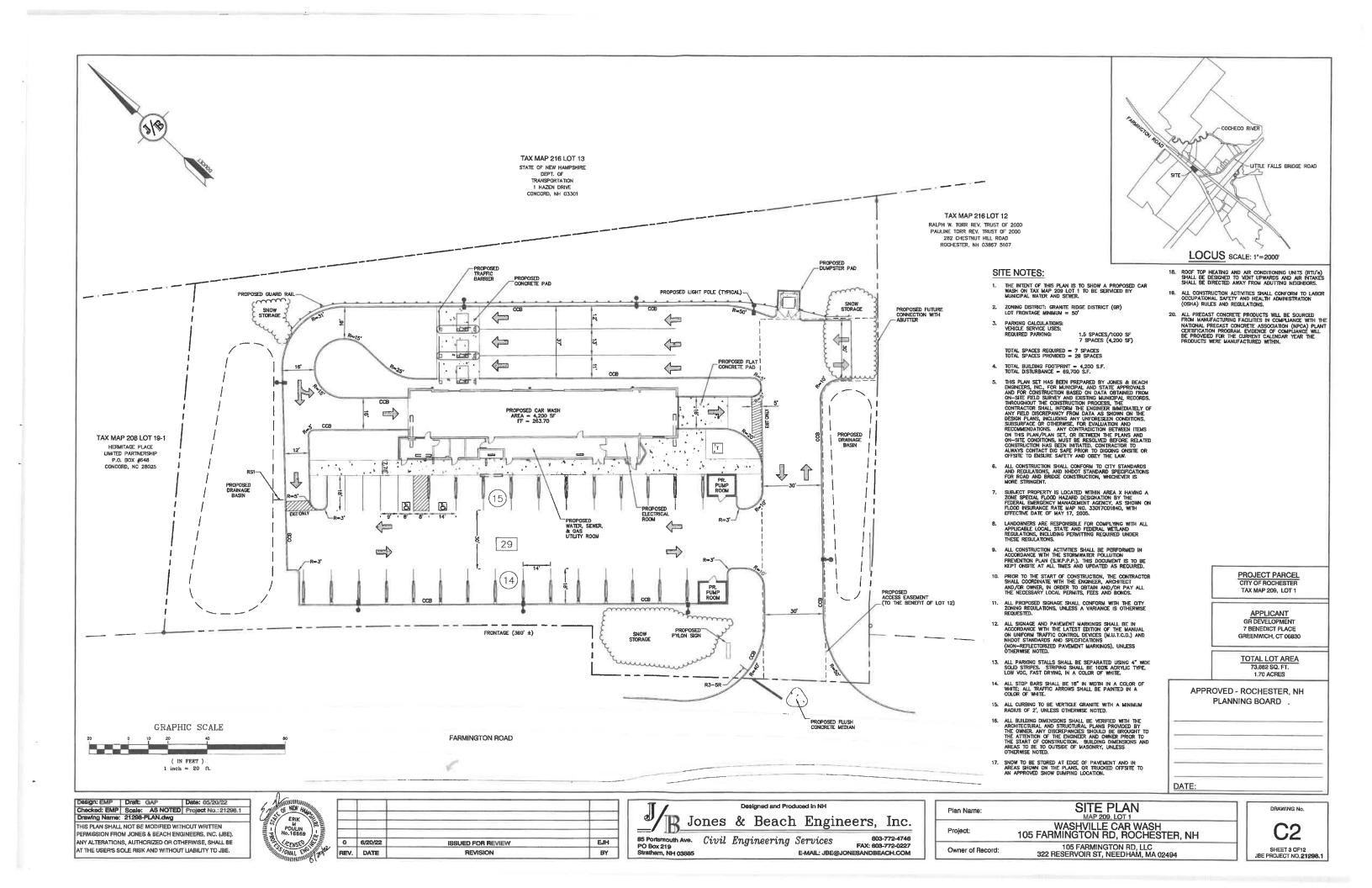
85 Portsmouth Ave. Civil Engineering Services E-MAIL: JBE@JONESANDBEACH.COM Plan Name Project:

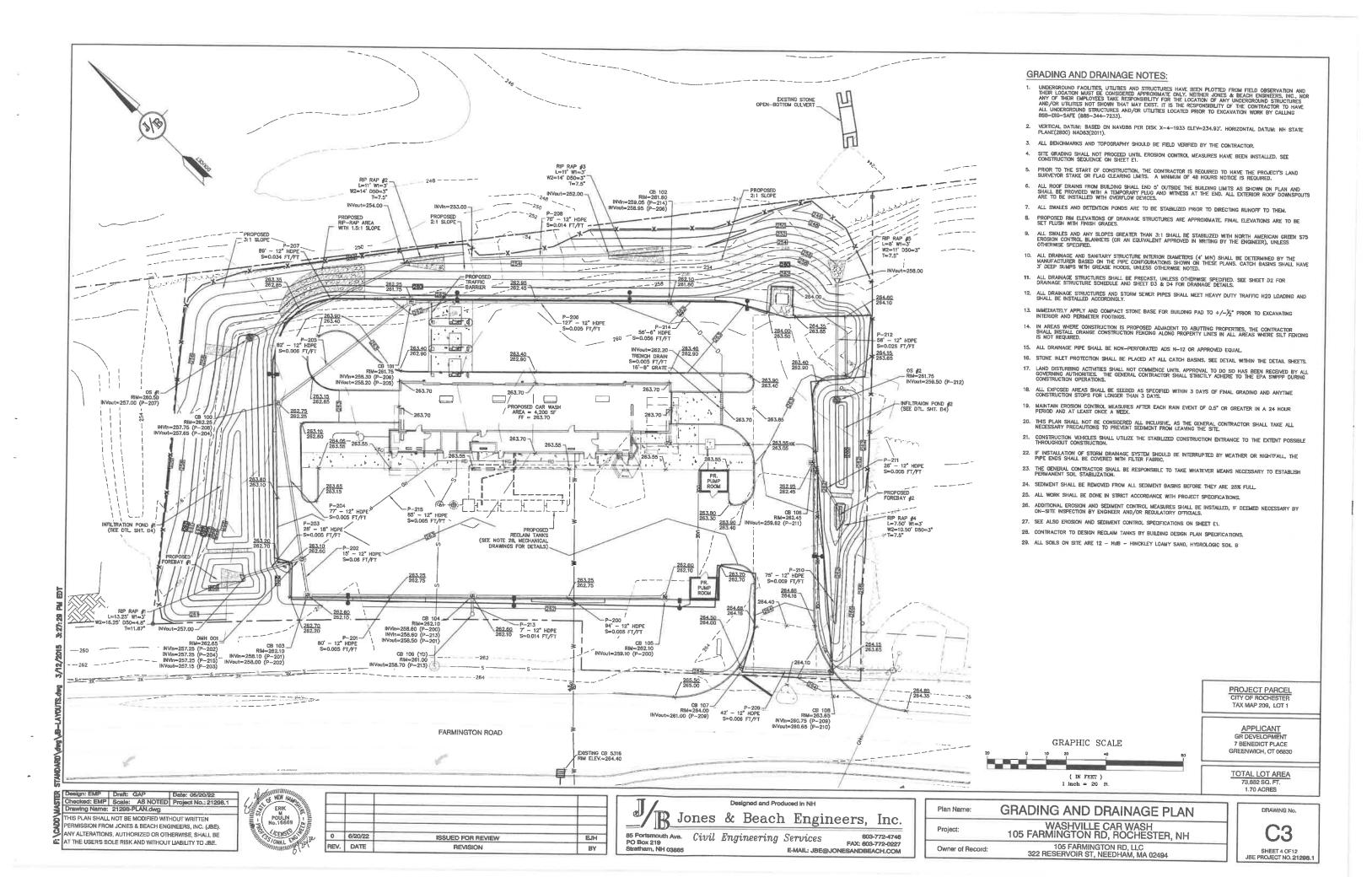
**COVER SHEET** 

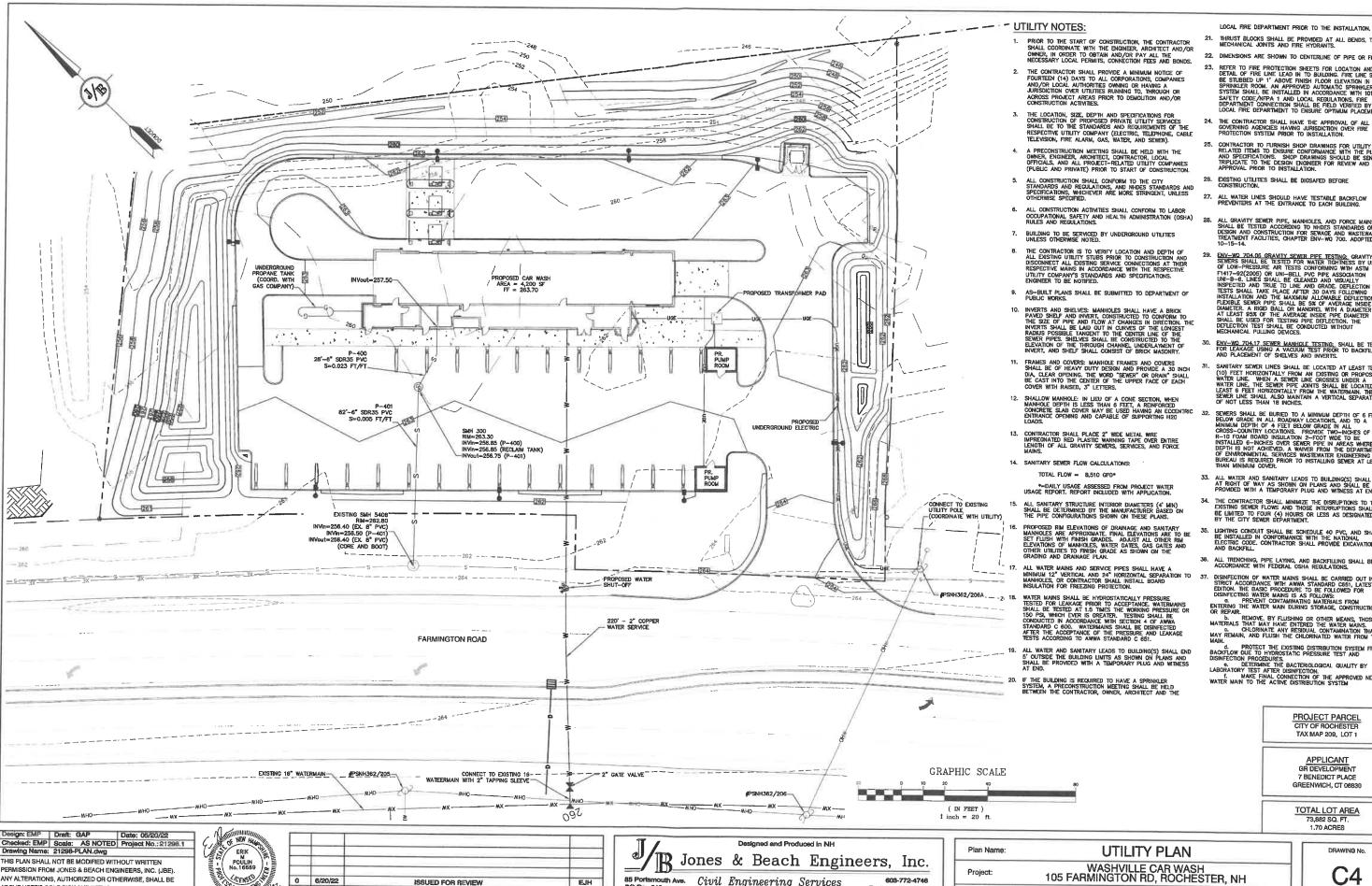
WASHVILLE CAR WASH 105 FARMINGTON RD, ROCHESTER, NH 105 FARMINGTON RD, LLC 322 RESERVOIR ST, NEEDHAM, MA 02494

DRAWING No CS









THRUST BLOCKS SHALL BE PROVIDED AT ALL BENDS, TEES, MECHANICAL JOINTS AND FIRE HYDRANTS.

22. DIMENSIONS ARE SHOWN TO CENTERLINE OF PIPE OR FITTING.

22. REFER TO FIRE PROTECTION SHEETS FOR LOCATION AND DETAIL OF FIRE LINE LEAD IN TO BUILDING, FIRE LINE SHALL BE STUBED UP 1. ADOVE MISH FLOOD ELEVATION IN SPRINKLER ROOM. AN APPENDE AUTOMAN SPRINKLER STALL BE INSTALLED WITH THE SHALL BE INSTALLED SHALL BE INSTALLED SHALL BE INSTALLED SHALL BE INSTALLED BY THE SAFETY CODE (AFPA 1 AND LOCAL REQULAR TO UTSHEED BY LOCAL FIRE DEPARTMENT CONNECTION SHALL BE FILED VISITIES BY LOCAL FIRE DEPARTMENT TO ENSURE OPTIMAN PLACEMENT.

24. THE CONTRACTOR SHALL HAVE THE APPROVAL OF ALL GOVERNING AGENCIES HAVING JURISDICTION OVER FIRE PROTECTION SYSTEM PRIOR TO INSTALLATION.

25. CONTRACTOR TO FURNISH SHOP DRAWINGS FOR UTILITY RELATED ITEMS TO ENSURE CONFORMANCE WITH THE PLANS AND SPECIFICATIONS. SHOP DEAWNINGS SHOULD BE SENT IN TRIPLICATE TO THE DESIGN ENGINEER FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.

26. EXISTING UTILITIES SHALL BE DIGSAFED BEFORE CONSTRUCTION.

ALL GRAVITY SEWER PIPE, MANHOLES, AND FORCE MAINS SHALL BE TESTED ACCORDING TO NHDES STANDARDS OF DESIGN AND CONSTRUCTION FOR SEWACE AND WASTEWATER TREATMENT FACILITIES, CHAPTER ENV-MQ 700. ADDPTED ON 10-15-14

9. ENV—MO 704.06 GRAMITY SEWER PIPE TESTING. GRAMITY SEWERS SHALL BE TESTED FOR WATER RIGHTNESS BY USE OF LOW—PRESSURE AIR TESTS CONTROMING WITH ASTIN F1417—92(2008) OR UNI—SELL PUC PIPE ASSOCIATION INFO BE LINES SHALL BE CREAMED ASSOCIATION INSPECTED AND TRUE TO LINE AND GRADE DEFLECTION TESTS SHALL TAKE PLACE AFTER 30 DAYS FOLLOWING INSTALLATION AND THE MAXIMUM ALLOWABLE DEFLECTION OF PLEXIBLE SEWER PIPE SHALL BE SO AVERAGE INSIDE DIAMETER. A RIGID BALL OR MANDREL WITH A DIAMETER OF AT LEAST 93% OF THE AVERAGE INSIDE PIPE DIAMETER SHALL BE USED FOR TESTING PIPE DISPLECTION. THE DEPLECTION TEST SHALL BE CONDUCTED WITHOUT MECHANICAL PULLING DEMOCES.

ENY\_WO\_704.17 SEWER MANHOLF TESTING: SHALL BE TESTED FOR LEAKAGE USING A VACUUM TEST PRIOR TO BACKFILLING AND PLACEMENT OF SHELVES AND INVERTS.

SANITARY SEWER LINES SHALL BE LOCATED AT LEAST TEN
(10) FEET HORIZONTALLY FROM AN EXISTING OR PROPOSED
WATER LINE. WHEN A SEWER LINE CROSSES UNDER A
WATER LINE, THE SEWER PIPE JOINTS SHALL BE LOCATED AT
LEAST 6 FEET HORIZONTALLY FROM THE WATERMAIN. THE
SEWER LINE SHALL ALSO MAINTAIN A VERTICAL SEPARATION
OF NOT LESS THAN 18 INCHES.

SEWERS SHALL BE BURIED TO A MINIMUM DEPTH OF 6 FEET BELOW GRADE IN ALL ROADWAY LOCATIONS, AND TO A MINIMUM DEPTH OF 4 FEET BELOW GRADE IN ALL CROSS—COUNTRY LOCATIONS. PROVIDE: TWO—INCRES OF R—10 FOAM BOARD INSULATION; 20-FOOT WIDE TO BE INSTALLED 6—INCRES OVER SEWER PIPE IN AREAS WHERE DEPTH IS NOT ACHIEVED. A WAVEY FROM THE DEPARTMENT OF ENWIROPMENTAL SERVICES WASTEWARTER FINISHERING BUREAU IS REQUIRED PRIOR TO INSTALLING SEWER AT LESS THAN MINIMUM COVER.

ALL WATER AND SANITARY LEADS TO BUILDING(S) SHALL END AT RIGHT OF WAY AS SHOWN ON PLANS AND SHALL BE PROVIDED WITH A TEMPORARY PLUG AND WITNESS AT END.

34. THE CONTRACTOR SHALL MINIMIZE THE DISRUPTIONS TO THE EXISTING SEWER FLOWS AND THOSE INTERRUPTIONS SHALL BE LIMITED TO FOUR (4) HOURS OR LESS AS DESIGNATED BY THE CITY SEWER DEPARTMENT.

35. LIGHTING CONDUIT SHALL BE SCHEDULE 40 PVC, AND SHALL BE INSTALLED IN CONFORMANCE WITH THE NATIONAL ELECTRIC CODE. CONTRACTOR SHALL PROVIDE EXCAVATION AND BACKFILL.

ALL TRENCHING, PIPE LAYING, AND BACKFILLING SHALL BE IN ACCORDANCE WITH FEDERAL OSHA REGULATIONS.

37. DISINFECTION OF WATER MAINS SHALL BE CARRIED OUT IN STRICT ACCORDANCE WITH AWAY. STANDARD COST, LATEST EDITION. THE BASIC PROCEDURE, ON THE PROPERTY OF COST, CONTINUED FOR DISINFECTING WATER MAINS IS AS FOLLOWS.

a. PREVENT CONTAMINATING MATERIALS FROM ENTERING THE WATER MAIN DURING STORAGE, CONSTRUCTION, OR REPAIR.

AC REMAIR.

REMOVE, BY FLUSHING OR OTHER MEANS, THOSE MATERIALS THAT MAY HAVE ENTERED THE WATER MAINS.

C. CHORINATE ANY RESIDUAL CONTAMINATION THAT MAY REMAIN, AND FLUSH THE CHLORINATED WATER FROM THE MAIN.

MAIN.

A PROTECT THE EXISTING DISTRIBUTION SYSTEM FROM BACKFLOW DUE TO HYDROSTATIC PRESSURE TEST AND DISINFECTION PROCEDURES.

B. DETERMINE THE BACTERIOLOGICAL QUALITY BY LABORATORY TEST AFTER DISINFECTION.

MAKE FINAL CONNECTION OF THE APPROVED NEW WATER MAIN TO THE ACTIVE DISTRIBUTION SYSTEM

PROJECT PARCEL CITY OF ROCHESTER

APPLICANT GR DEVELOPMENT 7 BENEDICT PLACE GREENWICH, CT 06830

TOTAL LOT AREA 73,882 SQ. FT. 1.70 ACRES

Design: EMP | Draft: GAP Checked: EMP Scale: AS NOTE
Drawing Name: 21298-PLAN.dwg

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0 6/20/22 REV. DATE

REVISION

BY

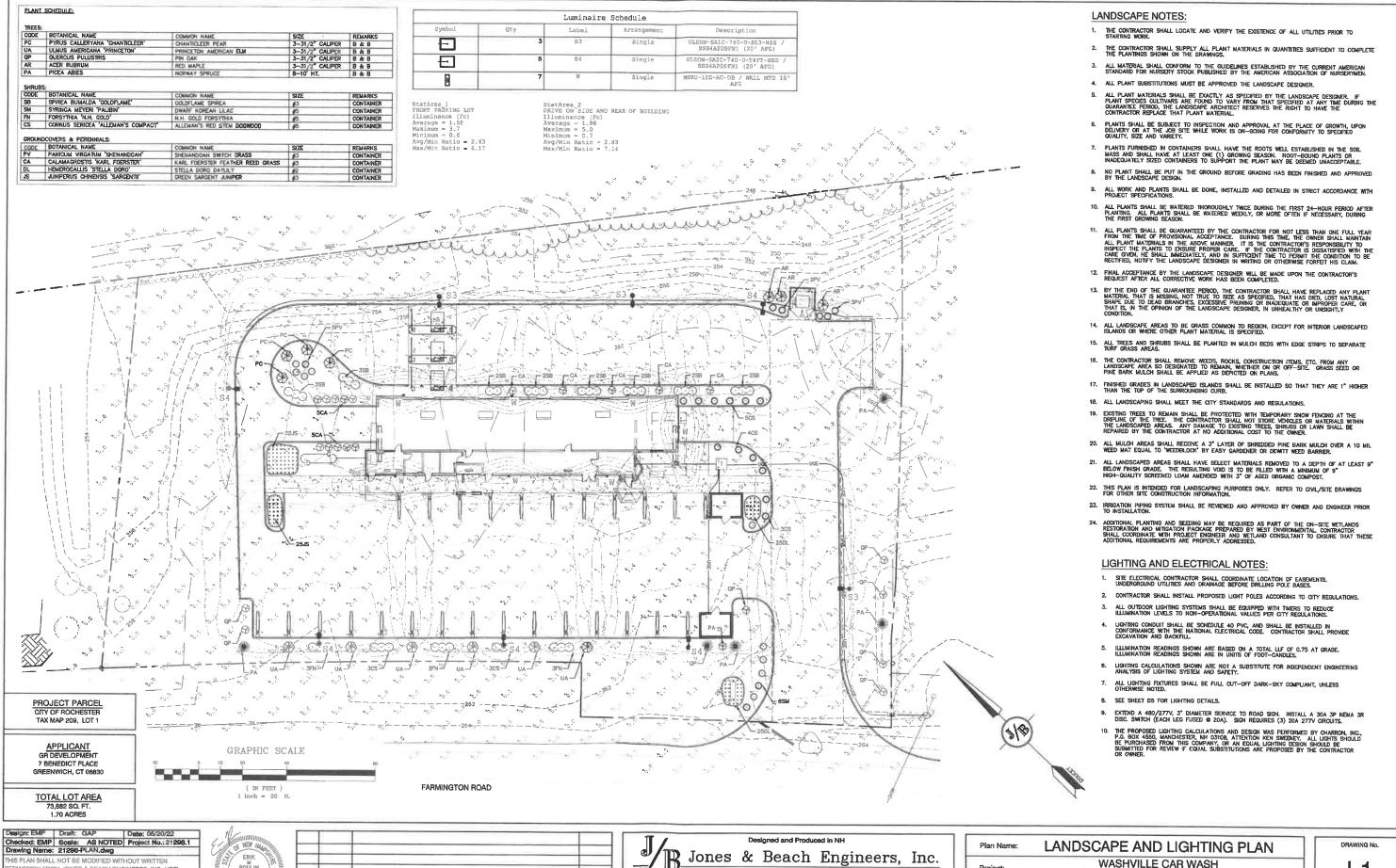
85 Portsmouth Ave. Civil Engineering Services PO Box 219 E-MAIL: JBE@JONESANDBEACH.COM

Owner of Record

105 FARMINGTON RD, LLC 322 RESERVOIR ST, NEEDHAM, MA 02494

DRAWING No.

C4 SHEET 5 OF12 JBE PROJECT NO. 21298.1



85 Portsmouth Ave. Civil Engineering Services

PO Box 219

BY

RMISSION FROM JONES & BEACH ENGINEERS, INC. (JBE)

0 6/20/22

REV. DATE

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JBE PROJECT NO. 21298.1

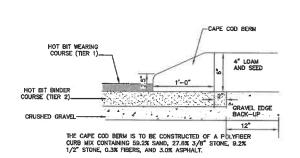
Project:

FAX: 603-772-0227

E-MAIL: JBE@JONESANDBEACH.COM

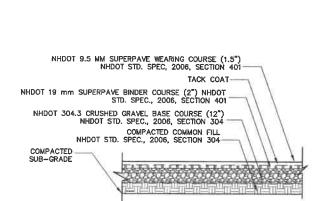
105 FARMINGTON RD, ROCHESTER, NH

105 FARMINGTON RD, LLC 322 RESERVOIR ST, NEEDHAM, MA 02494



### CAPE COD BERM

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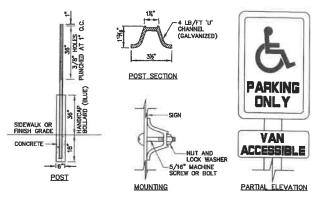


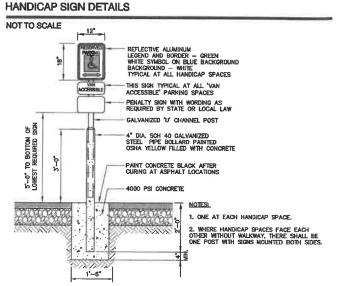
- 1. PAVEMENT SUBGRADES SHOULD BE PROOF ROLLED IN ORDER TO DENSIFY THE SUBGRADES USING A MINIMUM OF 4 PASSES WITH A 10-TON VIBRATORY DRUM COMPACTOR. THE GRAVEL BORROW SUBGRADE COURSE AND CRUSHED GRAVEL BASE COURSE SHOULD BE COMPACTED TO A MINIMUM OF 95% RELATIVE COMPACTION OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR TEST (ASTM—D698).

  2. PAVEMENT SECTION SUBJECT TO CHANGE BASED ON GEOTECHNICAL INVESTIGATION.

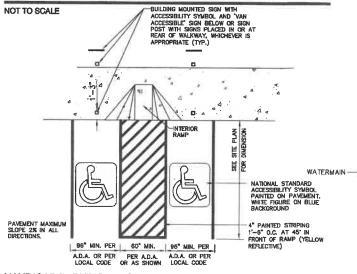
### STANDARD DUTY ASPHALT PAVEMENT SECTION

NOT TO SCALE



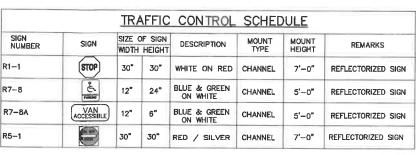


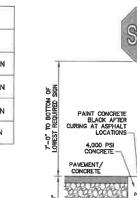
### HANDICAP PARKING SIGN (R7-8)



### HANDICAP PARKING LAYOUT

NOT TO SCALE

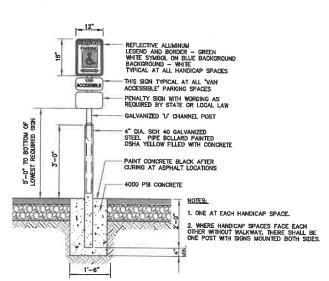




GALVANIZED "U" CHANNEL POST -4" LOAM & SEED (MIN.) GRASS W NOTE; IN SCENARIOS WHERE N.H.D.O.T. HAS JURISDICTION OVER STOP SIGN, NO CONCRETE MAY BE USED FOR SIGN INSTALLATION.

### STOP SIGN (R1-1)

NOT TO SCALE



### HANDICAP PARKING SIGN (R7-8)

NOT TO SCALE

# GROUND/PAVEMENT

1/2" PREFORMED EXPANSION JOINT

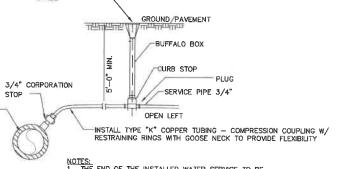
BRUSHED FINISH SURFACE (TYP)

THICKENED EDGE WALK NOT REQUIRED WHERE WALK ABUTS

EXPANSION JOINT SEALANT (WHEN REQ'D)

BLDG. FACE OF FIXED OBJECT

6"X6" WI.4XWI.4 W.W.F.



بدالحسب

NOTES: BANK RUN G

1. CONCRETE TO BE 4000 PSI.
2. CONTRACTION JOINTS SPACE TO BE EQUAL TO SIDEWALK
WIDTH.
3. ALL JOINTS SEALED PER SPECIFICATIONS.
4. PROVIDE A 1/2" NON-EXTRUDING EXPANSION JOINT
AGAINST STRUCTURE AND EVERY 19" ALONG SIDEWALK.
5. PROVIDE BROOM FINISH IN DIRECTION PERPENDICULAR TO
CLIEB.

MONOLITHIC CONCRETE SIDEWALK

6" MIN. CRUSHED GRAVEL

 $\frac{\text{NOTES:}}{\text{1. THE END OF THE INSTALLED WATER SERVICE TO BE}}$ 1. THE END OF THE MARKED BY A 2X4.
2. ALL WORK TO BE IN ACCORDANCE WITH THE LOCAL WATER COMPANY INSTALLATION PROCEDURES AND

### TYPICAL WATER SERVICE CONNECTION

NOT TO SCALE

PAVEMENT AND BASE AS SPECIFIED

NOT TO SCALE

SET TO FINISH

### PAINTING STRIPING LEGEND

SSWL/4" - SINGLE SOLID WHITE LINE / 4" WIDE SSYL/4" - SINGLE SOLID YELLOW LINE / 4" WIDE EACH DSYL/4" - DOUBLE SOLID YELLOW LINE / 4" WIDE EACH SSYL/10" - SINGLE SOLID YELLOW LINE / 10" WIDE SBWL/4" - SINGLE BROKEN WHITE LINE / 4" WIDE

SBYL/4" - SINGLE BROKEN YELLOW LINE / 4" WIDE SSWL/18" - SINGLE SOLID WHITE LINE / 18" WIDE

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ā	PERMISSION FROM JONES & BEACH ENGINEERS, INC. (JBE).	POULIN No.16669 ) 0=	
	ANY ALTERATIONS, AUTHORIZED OR OTHERWISE, SHALL BE	0 8/20/22 ISSUED FOR REVIEW	EJH
ů.	AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO JBE.	SONAL ENGLISH REV. DATE REVISION	BY

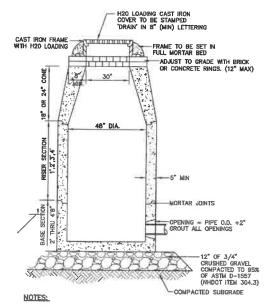
### Designed and Produced in NH Jones & Beach Engineers, Inc. 85 Portsmouth Ave. Civil Engineering Services 603-772-4746 FAX: 603-772-0227 E-MAIL: JBE@JONESANDBEACH.COM PO Box 219 Stratham, NH 0388

Plan Name: **DETAIL SHEET** WASHVILLE CAR WASH 105 FARMINGTON RD, ROCHESTER, NH Project: 105 FARMINGTON RD, LLC Owner of Record:

322 RESERVOIR ST, NEEDHAM, MA 02494

SHEET 7 OF12 JBE PROJECT NO. 21298.1

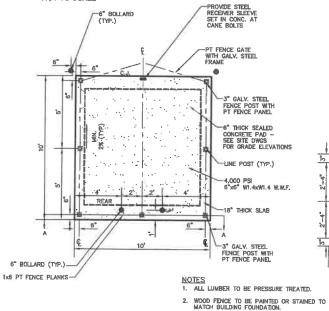
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- 1. BASE SECTION SHALL BE MONOLITHIC WITH 48" INSIDE DIAMETER.
- 2. ALL SECTIONS SHALL BE DESIGNED FOR H20 LOADING.
- 3. CONCRETE SHALL BE COMPRESSIVE STRENGTH 4000 PSI, TYPE II CEMENT.
- 4. FRAMES AND GRATES SHALL BE HEAVY DUTY AND DESIGNED FOR H20 LOADING.
- PROVIDE "V" KNOCKOUTS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. MORTAR ALL PIPE CONNECTIONS SO AS TO BE WATERTIGHT.
- 6. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE BUTYL RUBBER.
- ALL DRAIN MANHOLE FRAMES AND GRATES SHALL BE NHDOT TYPE MH-1, OR NEENAH R-1798 OR APPROVED EQUAL (30" DIA. TYPICAL).
- STANDARD FRAME(S) AND GRATE(S) SHALL BE SET IN FULL MORTAR BED. ADJUST TO GRADE WITH CLAY BRICK AND MORTAR (2 BRICK COURSES TYPICALLY, 5 BRICK COURSES MAXMUM, BUT NO MORE THAN 12"), OR PRECAST CONCRETE "DONUTS".
- BACK FILL SHOULD COMPLY WITH NHDOT 209.1 GRANULAR BACKFILL OR ON SITE MATERIAL IF SUITABLE.

### **DRAIN MANHOLE**

NOT TO SCALE



SEF NOTE 4 -CONCRETE : -SUB BASE 4"-6" MIN 4"-6" MIN

NOTES:

1. IT IS NECESSARY TO ENSURE THE MINIMUM DIMENSIONS SHOWN ARE SUITABLE FOR THE EXISTING GROUND CONDITIONS. ENGINEERING ADVICE MAY BE REQUIRED.

2. A MINIMUM CONCRETE STRENGTH OF 3000 PSI IS RECOMMENDED. THE CONCRETE SHOULD BE VIBRATED TO ELIMINATE AIR POCKETS.

3. EXPANSION AND CRACK CONTROL JOINTS ARE RECOMMENDED TO PROTECT THE CHANNEL AND THE CONCRETE SURROUND. ENGINEERING ADVICE MAY BE REQUIRED.

4. THE PINISHED LEVEL OF THE CONCRETE SURROUND MUST BE APPROX. 1/8" ABOVE THE TOP OF THE CHANNEL EDGE.

5. REFER TO ACO'S LATEST INSTALLATION INSTRUCTIONS FOR COMPLETE DETAILS.

THE SURFACE DRAINAGE SYSTEM SHALL BE POLYMER CONCRETE K100S CHANNEL SYSTEM WITH GALVANIZED STEEL OR STAINLESS STEEL K-RAILS AS MANUFACTURED BY ACO POLYMER PRODUCTS, INC., CHARDON, OH.

CHANNELS SHALL BE MANUFACTURED FROM POLYESTER RESIN POLYMER CONCRETE WITH AN INTEGRALLY CAST—IN GALVANIZED STEEL OR STAINLESS STEEL EDGE RAIL.

THE SYSTEM SHALL BE 4 INCHES (100MM) NOMINAL INSIDE WIDTH WITH A 6.1 IN. (155MM) OVERALL WIDTH AND A BUILT-IN SLOPE OF 0.6%. ALL CHANNELS SHALL BE INTERLOCKING WITH A MALE/FEMALE JOINT. EACH CHANNEL SHALL HAVE PREFORMED 4 IN. (100MM) ROUND AND 6 IN, (150MM) OVAL DRILL-OUTS ON THE BOTTOM FOR VERTICAL CONNECTION WITH UNDERGROUND PIPING

THE COMPLETE DRAINAGE SYSTEM SHALL BE BY ACO POLYMER PRODUCTS, INC. ANY DEVIATION OR PARTIAL SYSTEM DESIGN AND/OR IMPROPER INSTALLATION WILL VOID ANY AND ALL WARRANTIES PROVIDED BY ACO POLYMER PRODUCTS, INC.

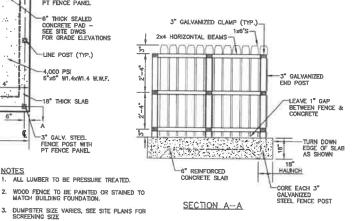
CHANNEL SHALL WITHSTAND LOADING TO LOAD CLASS E \*(DIN 19 580). GRATE TYPE SHALL BE APPROPRIATE TO MEET THE SYSTEM LOAD CLASS SPECIFIED AND INTENDED APPLICATION, GRATES SHALL, BE SECURED BY MEANS OF EITHER A BOLTLESS LOCKING "CULICALOK" DEWICE OR LOCKING BOLT AND BAR. CHANNEL AND GRATE SHALL BE INDEPENDENTLY CERTIFIED TO MEET THE SPECIFIED DIN 19580 LOAD CLASS.

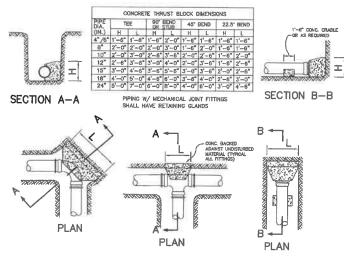
POLYMER CONCRETE SHALL HAVE MATERIAL PROPERTIES OF: COMPRESSIVE STRENGTH RANGE BETWEEN 14,000—14,500 PS; FLEXURAL STRENGTH BETWEEN 3600—4500 PS; TENSILE STRENGTH OF 1000 PS; THE MATERIAL WATER ABSORPHION RATE SHALL NOT EXCEED 1.7% BY WEIGHT AND SHALL BE RESISTANT TO PROLONGED SALT EXPOSURE, REPETITIVE FROST CYCLES AND CHEMICALLY RESISTANT TO DIJUTE ACIDS AND ALKALE.

THE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
\*\*FILL IN AS REQUIRED.

### TRENCH DRAIN SYSTEM

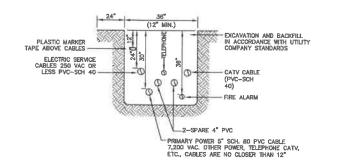
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### THRUST BLOCK DETAILS

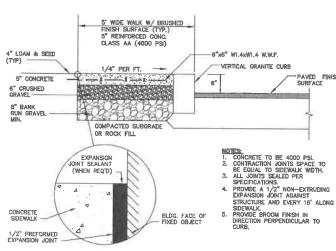
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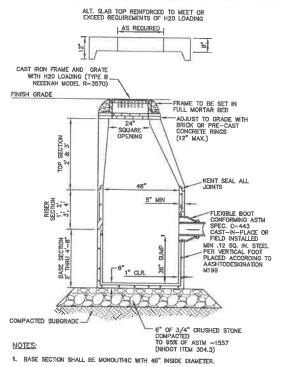
NOTE: ALL UTILITIES SHALL BE REVIEWED AND APPROVED BY APPROPRIATE UTILITY COMPANY.

### UTILITY TRENCH

NOT TO SCALE

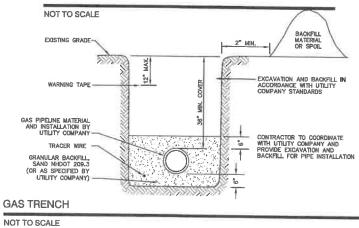


CONCRETE SIDEWALK W/ VERTICAL GRANITE CURB



- 2. ALL SECTIONS SHALL BE DESIGNED FOR H20 LOADING.
- 3. CONCRETE SHALL BE COMPRESSIVE STRENGTH 4000 PSI, TYPE II CEMENT.
- 4. FRAMES AND GRATES SHALL BE HEAVY DUTY AND DESIGNED FOR H20
- PROVIDE "V" KNOCKOUTS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. MORTAR ALL PIPE CONNECTIONS SO AS TO BE WATERTIGHT.
- 6. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE BUTYL RUBBER.
- ALL CATCH BASIN FRAMES AND GRATES SHALL BE NHDOT CATCH BASIN TYPE ALTERNATE 1 OR NEENAH R-3570 OR APPROVED EQUAL (24"x24" TYPICAL).
- STANDARD CATCH BASIN FRAME AND GRATE(S) SHALL BE SET IN FULL.
  MORTAR BED. ADJUST TO GRADE WITH CLAY BRICK AND MORTAR (2 BRICK
  COURSES TYPICALLY, 5 BRICK COURSES MAXIMUM, BUT NO MORE THAN 12"),
  OR PRECAST CONCRETE 'DONNITS'.
- BACK FILL SHOULD COMPLY WITH NHDOT 209.1 GRANULAR BACKFILL OR ON SITE MATERIAL IF SUITABLE.

### **CATCH BASIN**



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DUMPSTER ENCLOSURE PLAN

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OF NEW HA ERIK M POULIN No.16669

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REV.	DATE	REVISION	BY

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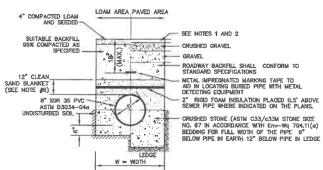
Plan Name **DETAIL SHEET** WASHVILLE CAR WASH Project: 105 FARMINGTON RD, ROCHESTER, NH 105 FARMINGTON RD, LLC 322 RESERVOIR ST, NEEDHAM, MA 02494

DRAWING No SHEET 8 OF12 BE PROJECT NO. 21298.1

- 1. PAVEMENT REPAIR IN EXISTING ROADWAYS SHALL CONFORM TO STREET OPENING REGULATIONS.
- 2. NEW ROADWAY CONSTRUCTION SHALL CONFORM WITH PROJECT AND CITY SPECIFICATIONS.
- 3. ALL MATERIALS ARE TO BE COMPACTED TO 95% OF ASTM D-1557.

### DRAINAGE TRENCH

NOT TO SCALE



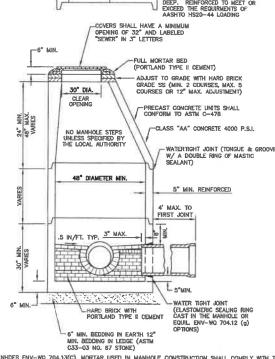
NOTES: I. PAVEMENT REPAIR IN EXISTING ROADWAYS SHALL CONFORM TO PAVEMENT DETAILS.

- 2. NEW ROADWAY CONSTRUCTION SHALL CONFORM TO SUBDIVISION SPECIFICATIONS.
- TRENCH BACKFILL SHALL CONFORM WITH ENV. Wq 704.11(h) AND BE FREE OF DEBRIS, PAVEMENT, ORGANIC MATTER, TOP SOIL, WET OR SOFT MUCK, PEAT OR CLAY, EXCAVATED LEDGE OR ROCKS OVER SIX INCHES.
- 4. W= MAXIMUM ALLOWABLE TRENCH WIDTH TO A PLANE 12" INCHES ABOVE THE PIPE. FOR PIPES 15 INCHES NOMINAL DIAMETER OR LESS, WIDTH SHALL BE NO MORE THAN 36"; FOR PIPES GREATER THAN 15 INCHES NOMINAL DIAMETER, WIDTH SHALL BE 24 NICHES PLUS PIPE O.D. WIDTH SHALL ALSO BE THE PAYMENT WIDTH FOR LEDGE EXCAVATION AND FOR ORDERED EXCAVATION BELOW GRADE.
- RIGID FOAM INSULATION TO BE PROVIDED WHERE COVER IN THE ROADWAY IS LESS THAN 6' AND CROSS COUNTRY IS LESS THAN 4', PURSUANT TO DES WAIVER BEING ISSUED.
- PIPE SAND BLANKET MATERIAL SHALL BE GRADED SAND, FREE FROM ORGANIC MATERIALS, GRADED SUCH THAT 100% PASSES A 1/2 " SIEVE AND A MAXIMUM OF 15% PASSES A #200 SIEVE IN ACCORDANCE WITH ENV-Wq 704.11(b).
- JOINT SEALS FOR PVC PIPE SHALL BE OIL RESISTANT COMPRESSION RINGS OF ELASTOMERIC MATERIAL AND CERTIFIED BY THE MANUFACTURER AS CONFORMING TO THE ASTA 032/2 STANDARD IN EFFECT WHEN THE JOINT SEALS WERE MANUFACTURED, AND SHALL BE PUSH-ON, BELL—AND—SPIGOT TYPE PER Env—Wg 704.05 (6).

### SEWER TRENCH

NOT TO SCALE

### SEWER MANHOLE NOT TO SCALE



PER NHDES ENV-WQ 704.13(C), MORTAR USED IN MANHOLE CONSTRUCTION SHALL COMPLY WITH THE FOLLOWING:

"OLLOWING:

A MORTAR SHALL BE COMPOSED OF TYPE II PORTLAND CEMENT AND SAND WITH OR WITHOUT HYDRATED LINE ADDITION

HYDRATED LINE ADDITION

PROPORTIONS IN MORTAR OF PARTS BY VOLUMES SHALL BE PER TABLE 704—4:

(1) 4.5 PARTS SAND AND 1.5 PARTS CEMENT; OR

(1) 4.5 PARTS SAND, ONE PART CEMENT AND 0.5 PART HYDRATED LIME;

C. CEMENT SALL BE TYPE I PORTLAND CEMENT TAND 1.5 PART HYDRATED BY ITS MANUFACTURER AS CONFORMING TO THE ASTM C150/C150M STANDARD IN EFFECT AT THE TIME THE CEMENT WAS MANUFACTURED

CONFORMING TO THE ASTM CISO/CISOM STANDARD IN EFFECT AT THE TIME TITLE VARIETY TO MANUFACTURED

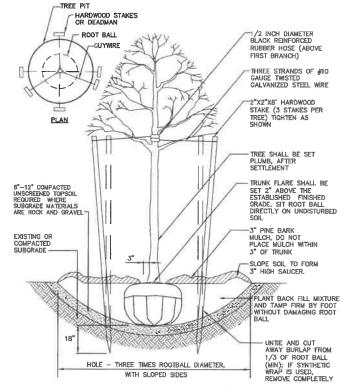
4. HYDRATED LIME SHALL BE TYPE S. THAT IS CERTIFIED BY ITS MANUFACTURER AS CONFORMING TO THE ASTM CAPY STANDARD IN EFFECT AT THE TIME. THE HYDRATED LIME WAS PROCESSED

5. SAND SHALL CONSET OF INERT MATURAL SAND THAT IS CERTIFIED BY ITS SUPPLIER AS CONFORMING TO THE ASTM CAS STANDARD IN EFFECT AT THE TIME THE SAND IS PROCESSED BY STANDARD SPECIFICATIONS FOR CONCRETE, FIRE ACCRECATE THE TIME THE SAND IS PROCESSED BY CONCRETE FOR DROP SUPPORTS SHALL CONFORM TO THE REQUIREMENT FOR CLASS AAA CONCRETE FOR DROP SUPPORTS SHALL CONFORM TO TRANSPORTATIONS STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AS AVAILABLE AT

HTTP://WWW.NH.GOV/DOT/ORG/PROJECTDEVELOPMENT/HIGHWAYDESIGN/SPECIFICATIONS/INDEX.HTM

- 3. ALL MANHOLES SHALL BE TESTED FOR LEAKAGE IN ACCORDANCE WITH ENV-WQ 704.17 (a) THROUGH
- SEWER MANHOLE COVERS SHALL CONFORM TO ASTM A48/48M WITH A CASTING EQUAL TO CLASS 30 IN ACCORDANCE WITH ENV-WQ 704.13 (a) (8).

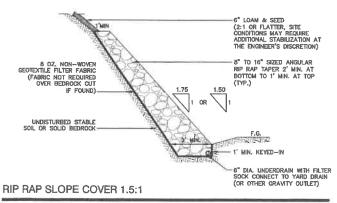
- 7. BRICK MASONRY SHALL CONFORM TO ASTM C32 (ENV-WQ 704.12(a)(9))



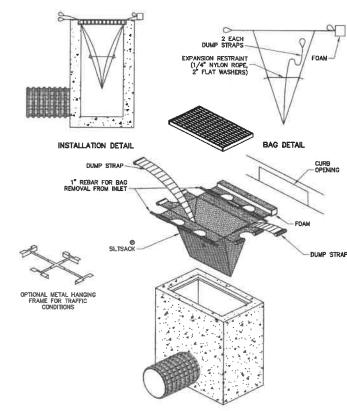
### TREE PLANTING (FOR TREES UNDER 4" CALIPER)

NOT TO SCALE

RECOMMENDED RIP RAP GRADATION RANGES					
d50 SIZE=	1.00	FEET	12	INCHE	S
% OF WEIGHT S THAN THE GIVE			SIZE OF FROM	STONE	(INCHES) TO
100%			18		24
85%			16		22
50%			12		18
15%			4		6



NOT TO SCALE

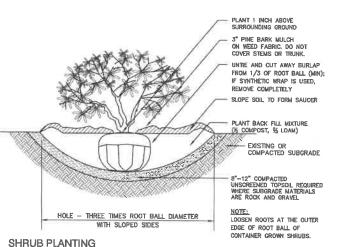


### NOTES:

- TO INSTALL SILTSACK IN THE CATCH BASIN, REMOVE THE GRATE AND PLACE THE SACK IN THE OPENING. HOLD APPROXIMATELY SIX INCHES OF THE SACK OUTSIDE THE FRAME. THIS IS THE AREA OF THE LIFTING STRAPS. REPLACE THE GRATE TO HOLD THE SACK IN PLACE.
- 2. WHEN THE RESTRAINT CORD IS NO LONGER VISIBLE, SILTSACK IS FULL AND SHOULD BE EMPTIED.
- 4. TO EMPTY SLTSACK, PLACE UNIT WHERE THE CONTENTS WILL BE COLLECTED. PLACE THE REBAR THROUGH THE LEFT STRAPS (CONNECTED TO THE BOTTOM OF THE SACK) AND LIFT. THIS WILL LIFT SLTSACK FROM THE BOTTOM AND EMPTY THE CONTENTS. CLEAN OUT AND RINSE. RETURN SILTSACK TO ITS ORIGINAL SHAPE AND PLACE BACK IN THE BASIN.
- SILTSACK IS REUSABLE. ONCE THE CONSTRUCTION CYCLE IS COMPLETE, REMOVE SILTSACK FROM THE BASIN AND CLEAN. SILTSACK SHOULD BE STORED OUT OF SUNLIGHT UNTIL NEXT USE.

### SILTSACK INLET SEDIMENT CONTROL DEVICE TYPE B - WITH CURB DEFLECTOR

NOT TO SCALE



NOT TO SCALE

Design: EMP | Draft: GAP Date: 05/20/22 Checked: EMP Scale: AS NOTED Project No.:21298.1
Drawing Name: 21298-PLAN.dwg

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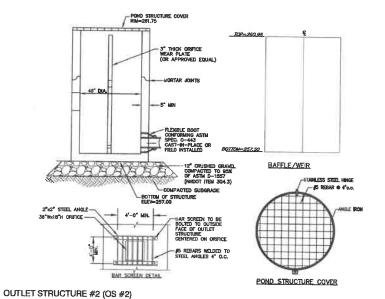
0	6/20/22	ISSUED FOR REVIEW	EJH
REV.	DATE	REVISION	BY

Designed and Produced in NH B Jones & Beach Engineers, Inc.

85 Portsmouth Ave. Civil Engineering Services PO Box 219 FAX: 603-772-0227 E-MAIL: JBE@JONESANDBEACH.COM Plan Name **DETAIL SHEET** WASHVILLE CAR WASH Project: 105 FARMINGTON RD. ROCHESTER, NH 105 FARMINGTON RD, LLC Owner of Record: 322 RESERVOIR ST, NEEDHAM, MA 02494

DRAWING No. JBE PROJECT NO. 21298.

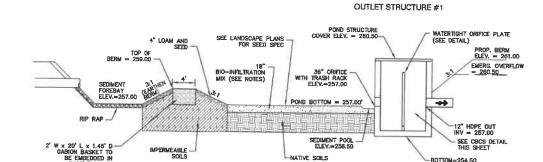
NOT TO SCALE



NOT TO SCALE

### BIO-INFILTRATION MIX AND PROCEDURE:

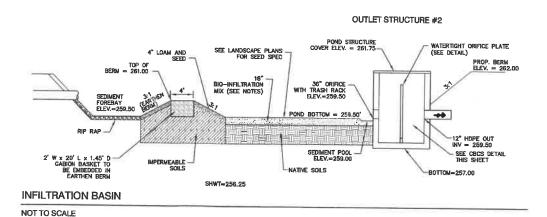
- REMOVE EXISTING FOREST LITTER FROM INFILTRATION BASIN SITE.
- REMOVE SANDY LOAM AND STOCKPILE (SCREEN LARGE ROOTS).
- REMOVE SANDY LAYERS TO 18" BELOW BASIN FLOOR ELEVATION.
- BIO-INITIRATION MIX:(BY VOLUME)
   1.1 SOX-55% ASTM C-33 CONGRETE SAND.
   4.2 20X-55% ASTM C-33 CONGRETE SAND.
   4.2 20X-30% LOAMY SAND TOPSOIL WITH 15X-25% FINES PASSING A #200 SIEVE.
   4.3 20X-30% MODERATELY FINE SHREDDED BARK OR WOOD FIRER MULCH WITH LESS THAN 5% PASSING THE #200 SIEVE.
- 5. INSTALL TO BIO-INFILTRATION MIX TO BASIN BOTTOM ELEVATION
- 6. SEED WITH "NEW ENGLAND WARM SEASON GRASS
  MIX" AS SOLD BY NEW ENGLAND METLAND PLANTS,
  NG. OR EQUAL AS APPROVED BY ENGINEER.
  APPLICATION RATE = 1900 SQ.FT. / LB.
  6.1. LIGHTLY MULCH WITH WEED FREE STRAW.



SHWT=251.00

INFILTRATION BASIN

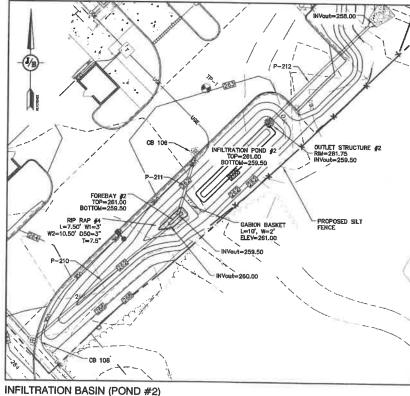
NOT TO SCALE



OUTLET STRUCTURE A RIM=260.5 INVout=257.0 **(18)** RIP RAP 4 L=13.25' Wi=3 V2=16.25' D50=4.8

**INFILTRATION BASIN (POND #1)** 

SCALE: 1" = 20'



SCALE: 1" = 20'

Design: EMP Draft: GAP Date: 06/20/22
Checked: EMP Scale: AS NOTED Project No.:21296.
Drawing Name: 21296-PLAN.dwg

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Ð	6/20/22	ISSUED FOR REVIEW	EJH
REV.	DATE	REVISION	BY



E-MAIL: JBE@JONESANDBEACH.COM

Plan Name: **DETAIL SHEET** WASHVILLE CAR WASH 105 FARMINGTON RD, ROCHESTER, NH Project: 105 FARMINGTON RD, LLC 322 RESERVOIR ST, NEEDHAM, MA 02494 Owner of Record:

DRAWING No. **D4** 



Die east aluminum bousing with superior heat sink • Scratch resistant Polyester powder coat finish \* UV resistant polycarbonate lens \* Snap-fit housing and mounting plate are held together by four stainless steel clips \* Universal mounting pattern molded into the back plate \* 1/2" threaded top access for surface conduit installation \* Silicone rubber seal with hollow center, shape adaptive design protects the electrical components . Junction box neoprene seal is attached to the back plate for a weather proof installation • Dark Bronze or White textured finish.

Dual voltage 120/277VAC 60Hz input + Solid state charging and switching + Battery low voltage disconnect \* AC power indicator and test switch at the bottom of the unit \* Standard with Self Diagnostics to monitor proper operation.

Supplied with eight (8) LG SMD 4000K LED'S • L70 > 72,000hours • 17 Watts total (32 Watts with B1 option) \* 1600 Lunens in AC mode, 600 Lunens in Emergency mode \* Full cut-off optics for Dark Sky compliance

Maintenance-free, long-life rechargeable NiCad battery will operate fixture for a minimum of 90 minutes in the event of a power outage • 24 hour recharge after 90

UL924 - Listed for wet location applications (0°C-50°C) - Optional "H1" cold weather package for (-40°C-50°C) • 1P65 Rated • NFPA 101 Life Safety Code compliant • NEC and OSHA compliant • DLC Listed • RoHS Compliant

5-year warranty. Product specifications subject to change without notice.

### INSTALLATION

Suitable for induor or outdoor wall mounting on junction box, or with surface conduiusing the supplied 1/2" threaded top access. Mounting plate has molded universal mounting pattern for simple mounting over junction box.



( CENTO

Integral photocell: Unit operates as a dusk to dawn luminaire and

in the event of a power failure as an emergency light Remote Switched: The unegral photocell can be defeated to allow

remote switching for normal operation. In the event of a power

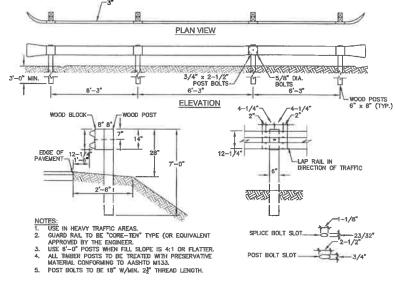
ACEM Model (NiCas Battery Backup)

failure unit operates as an emergency light.



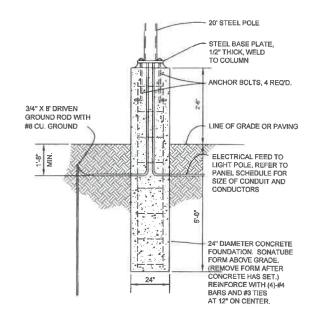
EJH

BY



### **GUARD RAIL (CORE-TEN)**

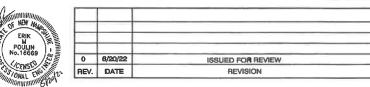
NOT TO SCALE



### LIGHT POLE BASE FOUNDATION

NOT TO SCALE

Design: EMP Draft: GAP Date: 05/20/22
Checked: EMP Scale: AS NOTED Project No.: 21298.1
Drawing Name: 21288-PLAN.dwg ERIK M POULIN No.16669 THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION FROM JONES & BEACH ENGINEERS, INC. (JBE). ANY ALTERATIONS, AUTHORIZED OR OTHERWISE, SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO JBE.

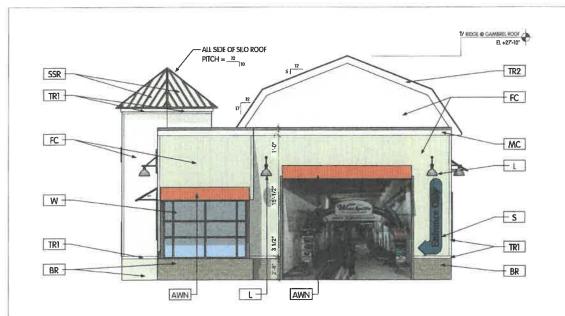




E-MAIL: JBE@JONESANDBEACH.COM

Plan Name:	DETAIL SHEET
Project:	WASHVILLE CAR WASH 105 FARMINGTON RD, ROCHESTER, NH
Owner of Record:	105 FARMINGTON RD, LLC 322 RESERVOIR ST, NEEDHAM, MA 02494

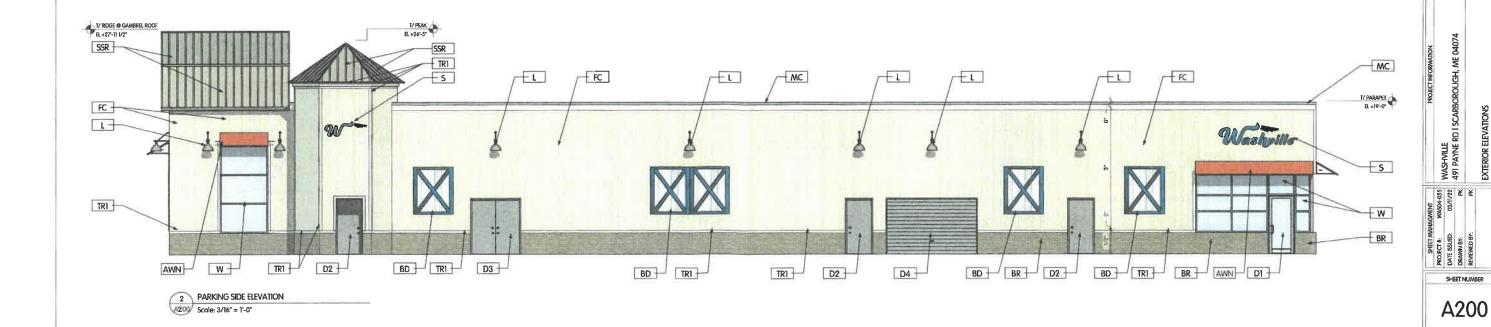




1 ENTRANCE SIDE ELEVATION Scale: 3/16" = 1'-0"

	EXTERIOR FINISH	/MA	TERIAL LEGEND	sevan
	STANDING SEAM METAL ROOF PAINTED P3	P3	PAINT SHERWIN WILLIAMS	DESIGN SOLUTIONS, P.C.
8D	FAUX BARN DOORS 2x6 SURFACE APPLIED STAINED FAUX BARN DOORS W/ BEADED PANELING INFILL	14	INVIGORATE - SW 6886 EXTERIOR GRADE PAINT	3025 Highland Parkway   Suite 850 Downers Grove, IL 60515
BR	BRICK BELDEN BRICK COMPANY BUTTERCUP GLAZE	P4	SHERWIN WILLIAMS GRAY SHINGLE - 5W 7670 EXTERIOR GRADE	INTEGRITY   RESPECT   TEAMWORK EXCELLENCE   CHARITY
DI	MODULAR (3 5/8" x 2 1/4" x 7 5/8") ALUMINUM ENTRY DOOR ANODIZED ALUMINUM	P5	PAINT SHERWIN WILLIAMS CREAMY - SW 7012	
	HOLLOW METAL DOOR EQUIPMENT ROOM DOOR	-	EXTERIOR GRADE BUILDING SIGNAGE	-
D2	HOLLOW METAL DOOR	S	PERMITTED & INSTALLED BY OTHERS	- $W$
	EQUIPMENT ROOM DOUBLE DOOR OVERHEAD COILING DOOR	SSR	STANDING SEAM METAL ROOF PERMACOLOR: SIERRA TAN for equivalent	
	VENDING AREA FACTORY FINISH		FIBER CEMETN TRIM HARDIE TRIM BOARDS	
FC	FIBER CEMENT PANELING  JAMES HARDIE SIERRA 8 - HARDIE PANELING - VERTICAL PANITED PS	TRI	SMOOTH 4" x 96" x 1" PAINTED P! FIBER CEMENT TRIM	SEAL
	EXTERIOR PENDANT LIGHT T.B.D.	TR2	HARDE TRIM BOARDS SMOOTH	
	METAL COPING ALUMINUM PAINTED P4		10" x 96" x 1" PAINTED PI	
PI	PAINT SHEKWIN WILLIAMS PURE WHITE - SW 7005 EXTERIOR GRADE	TR3	FIBER CEMENT TRIM HARDIE TRIM BOARDS SMOOTH 4" x 96" x 1"	
D2	PAINT SHERWIN WILLIAMS HYPER BLUE - SW 965 EXTERIOR GRADE	w	PAINTED P2 WINDOW CR LAURENCE US ALLIMINUM - FLUSH FRONT SERIES 451 CLEAR ANODIZED	

\*ALL D2, D3, D4 EXTERIOR DOOR FINISHES TO USE FACTORY FINISH CLOSEST COLOR MATCH TO P4







W

Sevan
DESIGN SOLUTIONS, P.C.

SEAL

EXTERIOR PERSPECTIVE 1
A300 Scale: 3/16" = 1'-0"

2 EXTERIOR PERSPECTIVE 2
A300 Scale: 3/16" = 1'-0"





3 EXTERIOR PERSPECTIVE 3
A300 Scale: 3/16" = 1'-0"

4 EXTERIOR PERSPECTIVE 4
A300 Scale: 3/16" = 1'-0"

DATE P DIRAWI REVIEW

SHEET NUMBER

WASHVILLE 491 PAYNE RD I SCARBOROUGH, ME 04074

EXTERIOR RENDERS - DAY

A300

# D/F PYLON

Location 5 • Option 2

Qty: 1

### SCOPE

Fabricated multi-layered aluminum cabinet painted two colors.

Face-lit channel letters mounted to both sides of sign.

Woodgrain cladding to be direct print with matte clear coat.

Brick base/cap to match building.

Sign Sq Ftg: 74.6





Customer/Job Location:

**WASHVILLE** 

Rochester, NH

**DWG. DATE**: 2.9.2022

telephotocsburg desing it.

APPROVAL APPROVED APPROVED AS NOTED

File Name: Washville\_RochesterNH\_Sign Pkg\_22-03972

Sales: TD

Design: JP

Drawing # 22-03972-6

PMgr: EC

