

**SITE PLAN REVIEW TECHNICAL ADVISORY COMMITTEE
PORTSMOUTH, NEW HAMPSHIRE**

**CONFERENCE ROOM A
CITY HALL, MUNICIPAL COMPLEX, 1 JUNKINS AVENUE**

*Members of the public also have the option to join the meeting over Zoom
(See below for more details)**

2:00 PM

April 1, 2025

AGENDA

I. APPROVAL OF MINUTES

- A. Approval of minutes from March 4, 2025 Site Plan Review Technical Advisory Committee Meeting.

II. OLD BUSINESS

- A. The request of **Walter D. Hett Trust (Owner)**, for property located at **0 Banfield Road** and **Peverly Hill Road** requesting Preliminary and Final Subdivision Approval and Site Plan Review Approval to subdivide one lot into 5 new residential lots with associated site improvements. Said property is located on Assessor Map 255 Lot 2 and lies within the Single Residence A (SRA) District. (LU-25-22)

III. NEW BUSINESS

- A. The request of **361 Hanover Steam Factory LLC (Owner)**, for property located at **361 Hanover Street** requesting Site Plan Review Approval and Preliminary and Final Subdivision Approval for the addition of three dew residential structures and the renovation of the existing commercial building at 361 Hanover Street with the associated and required site improvements. Said property is located on Assessor Map 138 Lot 63 and lies within the Character District 5 (CD-5) and Downtown Overlay District. (LU-24-196)

IV. ADJOURNMENT

**Members of the public also have the option to join this meeting over Zoom, a unique meeting ID and password will be provided once you register. To register, click on the link below or copy and paste this into your web browser:*

https://us06web.zoom.us/webinar/register/WN_fJfW-kUSgq4FNqw_-gbLg

**SITE PLAN REVIEW TECHNICAL ADVISORY COMMITTEE
PORTSMOUTH, NEW HAMPSHIRE**

**CONFERENCE ROOM A
CITY HALL, MUNICIPAL COMPLEX, 1 JUNKINS AVENUE**

2:00 PM

March 4, 2025

MEMBERS PRESENT:

Peter Stith, Chairperson, Planning Manager; David Desfosses, Construction Technician Supervisor; Peter Britz, Director of Planning & Sustainability; Shanti Wolph, Chief Building Inspector (virtual); Eric Eby, Parking and Transportation Engineer (virtual); Mike Maloney; Deputy Police Chief; Vincent Hayes, Planner I

MEMBERS ABSENT:

Patrick Howe, Deputy Fire Chief; Zachary Cronin, Assistant City Engineer

**ADDITIONAL
STAFF PRESENT:**

Stefanie Casella, Planner II; Kate Homet, Environmental Planner; Chad Putney, Fire Prevention Officer

MINUTES

I. APPROVAL OF MINUTES

- A. Approval of minutes from February 4, 2025 Site Plan Review Technical Advisory Committee Meeting.

[5:42] P. Britz made a motion to recommend approval of the minutes as presented. V. Hayes seconded the motion. The motion passed unanimously.

II. NEW BUSINESS

- A. The request of **Walter D. Hett Trust (Owner)**, for property located at **0 Banfield Road** and **Peeverly Hill Road** requesting Preliminary and Final Subdivision Approval and Site Plan Review Approval to subdivide one lot into 5 new residential lots with associated site improvements. Said property is located on Assessor Map 255 Lot 2 and lies within the Single Residence A (SRA) District. (LU-25-22)

SPEAKING TO THE APPLICATION

[7:24] Jon Whitten, civil engineer with Haley Ward, came to present this project along with two representatives of the applicant, Shauna and Colton from Chinburg Development. Mr. Whitten handed out paper copies of an updated plan set which were created in response to staff comments published a few days prior. He briefly described the project proposal for five single family lots, along with project constraints such as wetlands and transmission lines.

[8:53] Mr. Whitten then addressed the staff comments directly.

[10:55] Mr. Whitten asked if they needed to apply for site plan approval on top of their subdivision approval, to which Chairman Stith responded yes, due to the project creating three or more new dwellings.

[12:08] Mr. Whitten addressed a comment about wetland delineations for the structures across the street and asked if the City's wetland map could be used for this purpose to which P. Britz responded that a delineation would be required. Mr. Whitten then discussed the force main and potentially working with the Department of Public Works to get a better idea of its exact location. A discussion continued about working with the force main, potentially performing directional boring to prevent having to dig in Peverly Hill Road, and the proposed water and sewer lines.

[22:30] P. Britz noted that the wetland buffers not yet delineated may impact the proposed driveways on Banfield and the applicants should look into having one driveway with a shared drive to remove or limit buffer disturbance. Any wetland or wetland buffer work will require a wetland conditional use permit.

[25:42] K. Homet noted that if the applicant intends to go forward with boring of the sewer lateral underneath the wetland, a wetland conditional use permit would be needed regardless. D. Desfosses stated that it was his preference that the applicants do not go under the wetland because any maintenance needed would require even further wetland disturbance in the future. Mr. Whitten responded saying that any conversation for preference to have the driveway on Lot 3 closer to the intersection of Banfield Road and Peverly Hill Road is in direct opposition to what the Planning Board has suggested, which is to push it as far away from the intersection as possible. They would have to look into balancing the driveway needs with any proposed impacts and permitting needs.

[27:23] E. Eby asked the applicants if they could look into the feasibility of installing a sidewalk in front of the three lots on Banfield Road and up to the intersection so that it could tie into the upcoming City side path project which will construct side paths along Peverly Hill Road. The applicants suggested that it would be tough to do because of the impacts to wetlands and wetland buffers. A discussion continued about a multi-use path and potential hurdles.

PUBLIC HEARING

[31:01] Chairman Stith opened up the public hearing. No one spoke. The public hearing was closed.

DISCUSSION AND DECISION OF THE BOARD

[31:35] P. Britz noted that the applicants had a bit of work to get done before they could move forward to the Planning Board and he made a motion for postponement of the application. D. Desfosses seconded the application. The motion passed unanimously.

III. ADJOURNMENT

[32:13] The meeting was adjourned at 2:27 p.m.

16 March 2025

Peter Stith, Technical Advisory Committee Chair
City of Portsmouth
1 Junkins Avenue
Portsmouth, NH 03801

RE: Request for Site Plan Review at 361 Hanover Street, Site Development

Dear Mr. Stith and Technical Advisory Committee Members:

On behalf of 361 Hanover Steam Factory, LLC, we are pleased to submit the attached plan set for **Site Plan Review** for the above-mentioned project and request that we be placed on the agenda for your **April 1, 2025**, Technical Advisory Committee (TAC) Meeting. The project consists of the addition of **new structures and additions** and the **renovation of the existing building** at 361 Hanover Street with the associated and required site improvements. The new structures will be entirely residential to add much needed housing stock in a desirable location where significant walkable amenities are in proximity. The project was submitted for **Preliminary Conceptual Consultation** as required under Section 2.4.2 of the Site Plan Regulations on April 18, 2024, with revised plans based on comments from the Planning Board and the Public reviewed at the July 18, 2024, Planning Board meeting. The resulting consensus from the Planning Board was that the neighborhood will be better served if the entire project is residential, instead of having commercial uses on the first floor. The applicant submitted that scenario to the Portsmouth Zoning Board, and at their February 18, 2025, meeting the Zoning Board agreed and granted the following Variances:

- Variance from Section 10.642 to allow residential principal use on the ground floor of the buildings;
- Variance from Section 10.5A41 - Figure 10.5A41.10D to a) allow for "Apartment", "Rowhouse" and "Duplex" building types where they are not permitted; and b) allow a ground floor height of 10.5 feet where 12 feet is required.

Project Overview

The project is a re-purposing of the existing structure on the site being known as the Heinemann Building and Tax Map 138 – Lot 63, and the project is in the online portal as Land Use Application (LU) – 24 - 196. The property will be subdivided with the smaller building, known as the Last Chance Garage, placed on a separate lot. The site plan proposal is re-develop the larger lot with the Heinemann Building into entirely residential use by additions to the existing building and four proposed new buildings, according to the attached site plans. The project received some zoning relief as described above but otherwise is fully compliant with the Portsmouth Zoning Ordinance.





Subdivision

The applicant is proposing to subdivide the existing parcel into two conforming parcels, each with one of the existing buildings contained thereon. The Subdivision Plan details the proposed property division. The plan shows the configuration of the existing lot. The Property has a long history of Industrial and Commercial land use. Built in the late 19th century as a 5-story brick and heavy timber structure with a flat roof and slab basement level, the Heinemann Building was originally owned and occupied by the Portsmouth Steam Factory. In the late 19th century, a fire destroyed the building reducing the building to a two-story building. In the 1950s, the building was later occupied with an auto dealership and later, in the 1970s, with JSA, an architectural design firm. In the 21st Century, the building was occupied by Heinemann, an international publishing company. A single story “modern” block addition with a shed roof was added mid-century toward the rear facing Foundry Place which was used as a loading dock for shipping and receiving. The existing condition shows a paved parking area behind the Heinemann Building and a bump out of the property lines. The area to the northeast of the Heinemann Building, towards what is now Foundry Place and the Foundry Place Garage, previously housed the Portsmouth Department of Public Works (DPW) Rock Street facility. Between that facility and the Heinemann Building there was a parking area which had been leased to the Heinemann Building and used for parking, that lease has expired. The property is currently in Condominium ownership. The Condominium will be dissolved, and the unit owners will become fee simple owners of the individual lots.

Site Plan Submission

The submission requirements of the City of Portsmouth Site Plan Regulations have been reviewed. The information supplied herein is intended to assist in a determination of the project’s compliance. Plans are drawn in accordance with scale and size requirements, with dates, titles, north orientation, Map and Lot, Zoning, revision blocks, and Legends. The proposed uses and Square footage of use are shown on the Architectural plans. The professional’s seals with license numbers are on the submitted plans. The Existing Conditions plan shows the site topography, building location with floor elevation, feature locations, and driveway access / egress and current parking configuration. Available utility information is shown. Subsequent plans show the proposed development with the associated site improvements and construction details.

Site Zoning

Consistent with other properties along Foundry Place and Hill Street, the property is zoned Character District 5 (CD5). The CD5 District is an urban zoning district that allows for a wide array of higher density commercial and residential uses. The Property is also subject to several Overlay Districts. The northern half of the property is located within the North End Incentive Overlay District (NEIOD) and the entire property is also located within the Downtown Overlay District (DOD).

The goals and objectives of the North End Vision Plan are focused on generating buildings, land uses, and site designs that support economic development while being respectful and sensitive to the





surrounding context. Buildings are intended to step up or down in transitional areas - like the property at 361 Hanover Street – in response to the surrounding land use pattern. This stepping element is why the North End Incentive Overlay District (the “NEIOD”), and its encouragement of larger buildings, does not carry over to the parking lot portion of the property along Hanover Street. Additionally, the Vision Plan encourages ground-floor commercial uses to activate the sidewalk and enhance the pedestrian experience. Thus, the Downtown Overlay District (the “DOD”) was extended into much of the North End. Although the Downtown Overlay District (the “DOD”) includes 361 Hanover Street it is important to acknowledge that there are no other properties fronting on Hanover Street included in the DOD. This is a result of the DOD following property lines of the entire parcel. No other parcel spans the area between Foundry Place and Hanover Street.

The Project Site Plan C3 details information regarding the proposed uses, including building size and parking counts. The required parking under the Portsmouth Zoning Ordinance (PZO) is as follows:

- 2 Units between 500-750 SF = 2 Spaces Required
- 38 Units over 750 SF = 50 Spaces Required
- Visitor Spaces – 1 per 5 units = 8 Spaces Required
- DOD Overlay Space Reduction (Section 10.1115.23) = 4 Spaces Deducted
- Total Required Spaces = 56
- Total Spaces Provided = 72 Spaces

We submit that the 4-space reduction is part of the Visitor parking requirement. There are two exterior guest parking spaces, and there will be 2 parking spaces in Building A for guests who are at the invitation of the unit owners with garage door access code. As required the stacked parking spaces (12 in Building A and six in Building D) will be assigned to a specific unit within those Buildings. Interior parking spaces are detailed on the Architectural plans.

Site Plan C3 shows the proposed open space / non-impervious areas in green color. The proposed project reduces the impervious surface total for the project and brings it into conformance with the 5% Open Space requirement. The proposed building uses, all conforming under the property variance, are listed on this sheet. Information regarding other Zoning Development Standards are detailed in the Table in the upper right-hand corner of the sheet. The Building Elevation plans show the proposed building heights. Ordinance conforming bike racks, both inside and outside, are shown.

Vehicular and Pedestrian Circulation

The application package includes a technical Memorandum prepared by Vanesse & Associates, Inc. (VAi), the project Traffic Consultant, calculating site Trip Generation utilizing Institute of Traffic Engineers (ITE) Trip Generation Calculations. The Memorandum details the changes in traffic generation due to the project and the potential impact on the adjacent roadway network. The Summary and Recommendations are detailed on Pages 15-16. Pedestrian access is shown on the site plans and consists of a sidewalk network. The tactile surface of the sidewalks vary where garage access is crossing. Turning movement plans are included in the Plan Set as Sheets T1 and T2.





Screening and Landscaping

The site currently is only landscaped with two trees at the existing building corners, which will have to be removed. The proposed landscaping improvements greatly expand the site landscaping along the Rock Street and Hanover Street frontages, as well as within the site. The space in front of the buildings at the street line is landscaped, and some more robust street trees are proposed along the Rock Street frontage. The tree locations require Portsmouth Tress and Greenery Committee approval which the developer will submit to be on the agenda for the next available meeting. Landscaping is detailed on Landscape Plans L1 – L3.

Water and Sewage Systems

The site is served by municipal water and sewer. The development proposes appropriate connections to the water and sewer infrastructure on Hanover Street. The plan shows the subsequent Mill and Pave operation to restore the street surface. The utility demand generated by the additions and renovations are not expected to exceed the capacity of the existing infrastructure. Utilities are detailed on the Utility Plan C4.

Stormwater Management

The site drainage patterns are shown on Sheet C5. The proposed drainage system has been designed to capture site runoff and deliver it to the adjacent city closed pipe system. The roof drain filters provide post-development runoff treatment for a majority of the site. Erosion and sediment control practices will be implemented for both the temporary condition during construction and for final stabilization after construction. Therefore, there are no negative impacts to downstream receptors or adjacent properties anticipated as a result of this project.

Site Lighting

The re-development will introduce adequate lighting of the driveway and pedestrian corridors to provide a welcoming and safe pedestrian and vehicular experience. The lighting will all be building mounted. The lighting intensities are detailed on the Lighting Plan C6, and the proposed fixture cut sheets are included in the Supplemental Material submission.

Site Signage

The site will be served by building mounted street number identification signage, the final design will be determined with TAC input. The project will be a Condominium Development, so a general identification sign will be proposed. The only other signage is required traffic, delivery, and parking controls such as the ADA signage and the stop sign.





Site Utilities and Solid Waste

Site utilities include natural gas, underground electric and communications services. The existing services will be adjusted and new corridors and conduits constructed as needed. The developer has met with Eversource to understand the underground utility network and understand electrical primary lines and required transformers and switchgear. A redundant primary electrical line loop, for additional reliability, will be created.

Solid Waste for Building A will be collected in an interior trash room, with access for trash haulers to pick up the trash on a regular schedule. Solid Waste for Buildings B1, B2, C and D will be in unit collection with City of Portsmouth curbside pickup.

The following plans are included in our submission:

- Cover Sheet – This shows the Development Team, Legend, Site Location, and Site Zoning.
- Subdivision Plan – This plan shows the division of the existing parcel into two conforming lots.
- Site Orthophoto – This plan shows the site’s relationship to the surrounding properties.
- Existing Conditions Plan C1 – This plan shows the existing site conditions in detail.
- Demolition Plan C2 – This plan shows proposed site demolition prior to construction.
- Site Plan C3 – This plan shows the site development layout with the associated Zoning information and notations.
- Landscape Plans L1 to L3 - These plans show proposed landscaping and bike rack details.
- Utility Plan C4 – This plan shows concept site utilities.
- Grading Plan C5 - This plan show project site grading, structure locations and elevations.
- Lighting Plan C6 – This plan show proposed project lighting.
- Turning Template Plans T1 and T2 – These plans show turning movements for passenger car and Portsmouth Fire Apparatus.
- Architectural Plans – These plans show building floor plans and elevations and a Street Elevation.
- Detail Sheets D1 to D5: These plans show the associated construction details.

Also attached to this submission is additional material to aid in the review of the application:

- ✓ Site Plan Application Checklist
- ✓ Proposed Plant material
- ✓ Stormwater Inspection and Maintenance Plan
- ✓ Green Building Statement
- ✓ Lighting Specifications
- ✓ Traffic Memorandum





We look forward to TAC review of this submission and look forward to an in-person presentation at your meeting.

Sincerely,

A handwritten signature in black ink, appearing to read "John R. Chagnon".

John R. Chagnon, PE

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CITY OF PORTSMOUTH

Planning & Sustainability
Department
1 Junkins Avenue
Portsmouth, New
Hampshire 03801
(603) 610-7216

ZONING BOARD OF ADJUSTMENT

February 24, 2025

361 Hanover Steam Factory LLC
361 Hanover Street
Portsmouth, New Hampshire 03801

**RE: Board Of Adjustment Request for Property Located at 361 Hanover Street,
Portsmouth, NH (LU-24-196)**

Dear Property Owner:

The Zoning Board of Adjustment, at its regularly scheduled meeting of **Wednesday, February 19, 2025**, considered your application for expanding and renovating the existing commercial building and converting it to multi-family residential and to construct three new multi-family residential buildings which requires the following: 1) Variance from Section 10.642 to allow residential principal uses on the ground floor of the buildings; 2) Variance from Section 10.5A41 - Figure 10.5A41.10D to a) allow for "Apartment", "Rowhouse" and "Duplex" building types where they are not permitted; and b) allow a ground floor height of 10.5 feet where 12 feet is required. Said property is shown on Assessor Map 138 Lot 63 and lies within the Character District 5 (CD5) and Downtown Overlay District. As a result of said consideration, the Board voted to **grant** the request with the following **condition**:

1) The design and location of the buildings may change as a result of Planning Board review and approval.

The Board's decision may be appealed up to thirty (30) days after the vote. Any action taken by the applicant pursuant to the Board's decision during this appeal period shall be at the applicant's risk. Please contact the Planning & Sustainability Department for more details about the appeals process.

Approvals may also be required from other City Commissions or Boards. Once all required approvals have been received, applicant is responsible for applying for and securing a building permit from the Inspection Department prior to starting any project work.

This approval shall expire unless a building permit is issued within a period of two (2) years from the date granted unless an extension is granted in accordance with Section 10.236 of the Zoning Ordinance.

The Findings of Fact associated with this decision are available: attached here or as an attachment in the Viewpoint project record associated with this application and on the Planning Board Meeting website:

<https://www.cityofportsmouth.com/planportsmouth/zoning-board-adjustment/zoning-board-adjustment-archived-meetings-and-material>

The minutes and audio recording of this meeting are available by contacting the Planning & Sustainability Department.

Very truly yours,

A handwritten signature in cursive script that reads "Beth Margeson".

Beth Margeson, Vice Chair of the Zoning Board of Adjustment

cc: Shanti Wolph, Chief Building Inspector

Rosann Maurice-Lentz, City Assessor

John Bosen, DTC Law

John Chagnon, Ambit Engineering, Inc.



CITY OF PORTSMOUTH

Planning & Sustainability Department
1 Junkins Avenue
Portsmouth, New Hampshire
03801
(603) 610-7216

PLANNING BOARD

May 22, 2024

361 Hanover Steam Factory, LLC
41 Industrial Drive, Unit 20
Exeter, NH 03833

RE: Request for Design Review for Property Located at **361 Hanover Street** in Portsmouth, New Hampshire (LUPD-24-3)

Dear Property Owner:

The Planning Board, at its meeting on **Thursday, May 16, 2024** considered your application requesting Design Review for the construction of a new building along Hanover Street with a 20-foot tunnel entrance from Hanover Street to a central courtyard between the new building and the existing 361 Hanover Street (Portsmouth Steam Factory) building. The courtyard will provide access to the indoor parking areas at both the existing and the new building. The upper floors of the new Hanover Street building will contain 12 residential dwelling units and the Portsmouth Steam Factory Building would contain 24 dwelling units; for a total of 36 dwelling units. There would be 72 off-street parking spaces in the aggregate. Said property is located on Assessor Map 138 Lot 63 and lies within the Character District 5 (CD5) Downtown Overlay and North End Overlay Districts. As a result of said consideration, the Board voted to find the design review process complete and to schedule a site walk and public hearing.

The minutes and audio recording of this meeting are available by contacting the Planning Department.

Very truly yours,

Rick Chellman, Chairman of the Planning Board

cc: Shanti Wolph, Chief Building Inspector

Rosann Maurice-Lentz, City Assessor

Peter H. Rice, Director of Public Works

John Chagnon, Ambit Engineering

John Bosen, Bosen and Associates



City of Portsmouth, New Hampshire

Site Plan Application Checklist

This site plan application checklist is a tool designed to assist the applicant in the planning process and for preparing the application for Planning Board review. The checklist is required to be completed and uploaded to the Site Plan application in the City's online permitting system. A pre-application conference with a member of the planning department is strongly encouraged as additional project information may be required depending on the size and scope. The applicant is cautioned that this checklist is only a guide and is not intended to be a complete list of all site plan review requirements. Please refer to the Site Plan review regulations for full details.

Applicant Responsibilities (Section 2.5.2): Applicable fees are due upon application submittal along with required attachments. The application shall be complete as submitted and provide adequate information for evaluation of the proposed site development. Waiver requests must be submitted in writing with appropriate justification.

Name of Applicant: 361 Hanover Steam Factory LLC Date Submitted: 3/14/2025

Application # (in City's online permitting): LU 24-196

Site Address: 361 Hanover Street Map: 138 Lot: 63

Application Requirements			
<input checked="" type="checkbox"/>	Required Items for Submittal	Item Location (e.g. Page or Plan Sheet/Note #)	Waiver Requested
<input type="checkbox"/>	Complete application form submitted via the City's web-based permitting program (2.5.2.1(2.5.2.3A))	Online	N/A
<input type="checkbox"/>	All application documents, plans, supporting documentation and other materials uploaded to the application form in viewpoint in digital Portable Document Format (PDF). One hard copy of all plans and materials shall be submitted to the Planning Department by the published deadline. (2.5.2.8)	Online	N/A

Site Plan Review Application Required Information			
<input checked="" type="checkbox"/>	Required Items for Submittal	Item Location (e.g. Page/line or Plan Sheet/Note #)	Waiver Requested
<input type="checkbox"/>	Statement that lists and describes "green" building components and systems. (2.5.3.1B)	Online	
<input type="checkbox"/>	Existing and proposed gross floor area and dimensions of all buildings and statement of uses and floor area for each floor. (2.5.3.1C)	Architectural Plans	N/A
<input type="checkbox"/>	Tax map and lot number, and current zoning of all parcels under Site Plan Review. (2.5.3.1D)	C1 Existing Conditions Plan	N/A

Site Plan Review Application Required Information			
<input checked="" type="checkbox"/>	Required Items for Submittal	Item Location (e.g. Page/line or Plan Sheet/Note #)	Waiver Requested
<input type="checkbox"/>	Owner's name, address, telephone number, and signature. Name, address, and telephone number of applicant if different from owner. (2.5.3.1E)	Cover	N/A
<input type="checkbox"/>	Names and addresses (including Tax Map and Lot number and zoning districts) of all direct abutting property owners (including properties located across abutting streets) and holders of existing conservation, preservation or agricultural preservation restrictions affecting the subject property. (2.5.3.1F)	Subdivision Plan	N/A
<input type="checkbox"/>	Names, addresses and telephone numbers of all professionals involved in the site plan design. (2.5.3.1G)	Cover	N/A
<input type="checkbox"/>	List of reference plans. (2.5.3.1H)	Subdivision Plan	N/A
<input type="checkbox"/>	List of names and contact information of all public or private utilities servicing the site. (2.5.3.1I)	Cover	N/A

Site Plan Specifications			
<input checked="" type="checkbox"/>	Required Items for Submittal	Item Location (e.g. Page/line or Plan Sheet/Note #)	Waiver Requested
<input type="checkbox"/>	Full size plans shall not be larger than 22 inches by 34 inches with match lines as required, unless approved by the Planning Director.. (2.5.4.1A)	Required on all plan sheets	N/A
<input type="checkbox"/>	Scale: Not less than 1 inch = 60 feet and a graphic bar scale shall be included on all plans. (2.5.4.1B)	Required on all plan sheets	N/A
<input type="checkbox"/>	GIS data should be referenced to the coordinate system New Hampshire State Plane, NAD83 (1996), with units in feet. (2.5.4.1C)	Sheet C1 Existing	N/A
<input type="checkbox"/>	Plans shall be drawn to scale and stamped by a NH licensed civil engineer. (2.5.4.1D)	Required on all plan sheets	N/A
<input type="checkbox"/>	Wetlands shall be delineated by a NH certified wetlands scientist and so stamped. (2.5.4.1E)	N/A	N/A
<input type="checkbox"/>	Title (name of development project), north point, scale, legend. (2.5.4.2A)	Cover	N/A
<input type="checkbox"/>	Date plans first submitted, date and explanation of revisions. (2.5.4.2B)	All Sheets	N/A
<input type="checkbox"/>	Individual plan sheet title that clearly describes the information that is displayed. (2.5.4.2C)	Required on all plan sheets	N/A
<input type="checkbox"/>	Source and date of data displayed on the plan. (2.5.4.2D)	Property Survey	N/A

Site Plan Specifications – Required Exhibits and Data

<input checked="" type="checkbox"/>	Required Items for Submittal	Item Location (e.g. Page/line or Plan Sheet/Note #)	Waiver Requested
<input type="checkbox"/>	<p>1. Existing Conditions: (2.5.4.3A)</p> <ul style="list-style-type: none"> • Surveyed plan of site showing existing natural and built features; • Existing building footprints and gross floor area; • Existing parking areas and number of parking spaces provided; • Zoning district boundaries; • Existing, required, and proposed dimensional zoning requirements including building and open space coverage, yards and/or setbacks, and dwelling units per acre; • Existing impervious and disturbed areas; • Limits and type of existing vegetation; • Wetland delineation, wetland function and value assessment (including vernal pools); • SFHA, 100-year flood elevation line and BFE data, as required. 	C1 Existing Conditions Plan	
<input type="checkbox"/>	<p>2. Buildings and Structures: (2.5.4.3B)</p> <ul style="list-style-type: none"> • Plan view: Use, size, dimensions, footings, overhangs, 1st fl. elevation; • Elevations: Height, massing, placement, materials, lighting, façade treatments; • Total Floor Area; • Number of Usable Floors; • Gross floor area by floor and use. 	Architectural Plans	
<input type="checkbox"/>	<p>3. Access and Circulation: (2.5.4.3C)</p> <ul style="list-style-type: none"> • Location/width of access ways within site; • Location of curbing, right of ways, edge of pavement and sidewalks; • Location, type, size and design of traffic signing (pavement markings); • Names/layout of existing abutting streets; • Driveway curb cuts for abutting prop. and public roads; • If subdivision; Names of all roads, right of way lines and easements noted; • AASHTO truck turning templates, description of minimum vehicle allowed being a WB-50 (unless otherwise approved by TAC). 	Sheet C3 Site Plan	
<input type="checkbox"/>	<p>4. Parking and Loading: (2.5.4.3D)</p> <ul style="list-style-type: none"> • Location of off street parking/loading areas, landscaped areas/buffers; • Parking Calculations (# required and the # provided). 	Building Plans	
<input type="checkbox"/>	<p>5. Water Infrastructure: (2.5.4.3E)</p> <ul style="list-style-type: none"> • Size, type and location of water mains, shut-offs, hydrants & Engineering data; • Location of wells and monitoring wells (include protective radii). 	Sheet C4 Utility	
<input type="checkbox"/>	<p>6. Sewer Infrastructure: (2.5.4.3F)</p> <ul style="list-style-type: none"> • Size, type and location of sanitary sewage facilities & Engineering data, including any onsite temporary facilities during construction period. 	Sheet C4 Utility	

<input type="checkbox"/>	7. Utilities: (2.5.4.3G) <ul style="list-style-type: none"> The size, type and location of all above & below ground utilities; Size type and location of generator pads, transformers and other fixtures. 	Sheet C4 Utility	
<input type="checkbox"/>	8. Solid Waste Facilities: (2.5.4.3H) <ul style="list-style-type: none"> The size, type and location of solid waste facilities. 	Architectural Plans	
<input type="checkbox"/>	9. Storm water Management: (2.5.4.3I) <ul style="list-style-type: none"> The location, elevation and layout of all storm-water drainage. The location of onsite snow storage areas and/or proposed off-site snow removal provisions. Location and containment measures for any salt storage facilities Location of proposed temporary and permanent material storage locations and distance from wetlands, water bodies, and stormwater structures. 	Sheet C5 Grading & Drainage Plan	
<input type="checkbox"/>	10. Outdoor Lighting: (2.5.4.3J) <ul style="list-style-type: none"> Type and placement of all lighting (exterior of building, parking lot and any other areas of the site) and photometric plan. 	Sheet C6 Lighting Plan	
<input type="checkbox"/>	11. Indicate where dark sky friendly lighting measures have been implemented. (10.1)	Sheet C6 Lighting Plan	
<input type="checkbox"/>	12. Landscaping: (2.5.4.3K) <ul style="list-style-type: none"> Identify all undisturbed area, existing vegetation and that which is to be retained; Location of any irrigation system and water source. 	Sheet L1-L3 Landscape Plans	
<input type="checkbox"/>	13. Contours and Elevation: (2.5.4.3L) <ul style="list-style-type: none"> Existing/Proposed contours (2 foot minimum) and finished grade elevations. 	Sheet C5 Grading & Drainage Plan	
<input type="checkbox"/>	14. Open Space: (2.5.4.3M) <ul style="list-style-type: none"> Type, extent and location of all existing/proposed open space. 	Sheet C3 Site Plan	
<input type="checkbox"/>	15. All easements, deed restrictions and non-public rights of ways. (2.5.4.3N)	Subdivision Plan	
<input type="checkbox"/>	16. Character/Civic District (All following information shall be included): (2.5.4.3P) <ul style="list-style-type: none"> Applicable Building Height (10.5A21.20 & 10.5A43.30); Applicable Special Requirements (10.5A21.30); Proposed building form/type (10.5A43); Proposed community space (10.5A46). 	Sheet C3 Site Plan	
<input type="checkbox"/>	17. Special Flood Hazard Areas (2.5.4.3Q) <ul style="list-style-type: none"> The proposed development is consistent with the need to minimize flood damage; All public utilities and facilities are located and construction to minimize or eliminate flood damage; Adequate drainage is provided so as to reduce exposure to flood hazards. 	N/A	

Other Required Information


<input checked="" type="checkbox"/>	Required Items for Submittal	Item Location (e.g. Page/line or Plan Sheet/Note #)	Waiver Requested
<input type="checkbox"/>	Traffic Impact Study or Trip Generation Report, as required. (3.2.1-2)	Online	
<input type="checkbox"/>	Indicate where Low Impact Development Design practices have been incorporated. (7.1)	Detail Sheets	
<input type="checkbox"/>	Indicate whether the proposed development is located in a wellhead protection or aquifer protection area. Such determination shall be approved by the Director of the Dept. of Public Works. (7.3.1)	N/A	
<input type="checkbox"/>	Stormwater Management and Erosion Control Plan. (7.4)	Detail Sheets	
<input type="checkbox"/>	Inspection and Maintenance Plan (7.6.5)	Online	

Final Site Plan Approval Required Information

<input checked="" type="checkbox"/>	Required Items for Submittal	Item Location (e.g. Page/line or Plan Sheet/Note #)	Waiver Requested
<input type="checkbox"/>	All local approvals, permits, easements and licenses required, including but not limited to: <ul style="list-style-type: none"> • Waivers; • Driveway permits; • Special exceptions; • Variances granted; • Easements; • Licenses. (2.5.3.2A)	Cover Sheet	
<input type="checkbox"/>	Exhibits, data, reports or studies that may have been required as part of the approval process, including but not limited to: <ul style="list-style-type: none"> • Calculations relating to stormwater runoff; • Information on composition and quantity of water demand and wastewater generated; • Information on air, water or land pollutants to be discharged, including standards, quantity, treatment and/or controls; • Estimates of traffic generation and counts pre- and post-construction; • Estimates of noise generation; • A Stormwater Management and Erosion Control Plan; • Endangered species and archaeological / historical studies; • Wetland and water body (coastal and inland) delineations; • Environmental impact studies. (2.5.3.2B)	Supplemental Materials	
<input type="checkbox"/>	A document from each of the required private utility service providers indicating approval of the proposed site plan and indicating an ability to provide all required private utilities to the site. (2.5.3.2D)	TBD	

Final Site Plan Approval Required Information

<input checked="checked" type="checkbox"/>	Required Items for Submittal	Item Location (e.g. Page/line or Plan Sheet/Note #)	Waiver Requested
<input type="checkbox"/>	A list of any required state and federal permit applications required for the project and the status of same. (2.5.3.2E)	Cover	
<input type="checkbox"/>	A note shall be provided on the Site Plan stating: "All conditions on this Plan shall remain in effect in perpetuity pursuant to the requirements of the Site Plan Review Regulations." (2.5.4.2E)	Sheet C3 Site Plan	N/A
<input type="checkbox"/>	For site plans that involve land designated as "Special Flood Hazard Areas" (SFHA) by the National Flood Insurance Program (NFIP) confirmation that all necessary permits have been received from those governmental agencies from which approval is required by Federal or State law, including Section 404 of the Federal Water Pollution Control Act Amendments of 1972, 33 U.S.C. 1334. (2.5.4.2F)	N/A	
<input type="checkbox"/>	Plan sheets submitted for recording shall include the following notes: a. "This Site Plan shall be recorded in the Rockingham County Registry of Deeds." b. "All improvements shown on this Site Plan shall be constructed and maintained in accordance with the Plan by the property owner and all future property owners. No changes shall be made to this Site Plan without the express approval of the Portsmouth Planning Director." (2.13.3)	Sheet C3 Site Plan	N/A

Applicant's Signature: _____  **Date:** _____ 3-14-2025

PLANTS BY TYPE

Trees

Acer rubrum 'Bowhall'

Bowhall Red Maple



PLANT TYPE

Tree

HEIGHT

40 ft.

WIDTH

15 ft.

SUN

Full, Half

WATER

Medium

SOIL

Loam

DESCRIPTION

40' tall with a 15' spread. Upright, pyramidal form. Reliable scarlet-red fall color.

LEAF SEASON

Deciduous

LEAF COLOR

Dark Green, Red

FLOWER COLOR

n/a

FLOWER SEASON

n/a

FRUIT SEASON

n/a

FRUIT TYPE

n/a

HABIT

Broad, Columnar, Pyramidal, Upright

DESIGN STYLES

Meadow, Ranch, Woodland

LOCATION USES

Lawn, Street Tree

ATTRACTS WILDLIFE

n/a

Carpinus betulus 'Frans Fontaine'

Upright European Hornbeam



PLANT TYPE

Tree

HEIGHT

40 ft.

WIDTH

15 ft.

SUN

Full, Half, Shade

WATER

Low

SOIL

Sandy, Clay, Loam

DESCRIPTION

Columnar in youth, more oval or vase shaped with age. Clean-looking tree. After 10 years, this beautiful tree is 20-25' tall and has spread 6-8'. It could end up being 50' tall! Foliage is deciduous and green in summer, turning gold in fall. It tolerates full sun to complete shade, clay or sandy soil, and is drought tolerant once it's established. It needs well draining soil. Great street or park tree since it can be easily pruned into a hedge. Columnar shaped in youth, becomes more oval or vase shape with age. Clean-looking tree.

[Learn More at Papervale Trees](#)



LEAF SEASON

Deciduous

LEAF COLOR

Green

FLOWER COLOR

n/a

FLOWER SEASON

n/a

FRUIT SEASON

n/a

FRUIT TYPE

Fleshy



HABIT

Upright, Vase

DESIGN STYLES

English Cottage, Formal, Japanese, Mediterranean, Ranch, Spanish, Woodland

LOCATION USES

Background, Shrub Border, Patio, Park, Parking Lot, Raised Planter, Roadside, Street Tree, Walls / Fences

ATTRACTS WILDLIFE

n/a

Juniperus virginiana 'Emerald Sentinel'

Emerald Sentinel Columnar Juniper



PLANT TYPE

Tree

HEIGHT

20 ft.

WIDTH

6 ft.

SUN

Full

WATER

Low

SOIL

Sandy, Clay, Loam, Rocky, Unparticular

DESCRIPTION

Emerald Sentinel Eastern Redcedar has green needles that are set off by vivid blue fruit in fall and winter. Evergreen foliage takes on purple tones in winter and is salt tolerant. The berry set makes this a wonderful cut green for winter arrangements. An excellent Conard-Pyle introduction and our favorite *J. virginiana*, bar none. It is also wet site tolerant.

LEAF SEASON

Evergreen

LEAF COLOR

Blue Green

FLOWER COLOR

n/a

FLOWER SEASON

n/a

FRUIT SEASON

Summer, Fall

FRUIT TYPE

n/a

HABIT

Columnar

DESIGN STYLES

Formal, Mediterranean, Ranch, Spanish

LOCATION USES

Background, Entry, Foundation, Walls / Fences

ATTRACTS WILDLIFE

n/a

Liquidambar sty. 'Slender Silhouette'

Slender Silhouette Liquidambar



PLANT TYPE
Tree

HEIGHT
20-40 ft.

WIDTH
3-6 ft.

SUN
Full

WATER
Medium

SOIL
Sandy, Clay, Loam, Rocky, Unparticular

DESCRIPTION

The exclamation point of the sweetgums forming an absolute pillar of foliage some 40' tall and only 6' wide at maturity. Makes a perfect, fast growing subject for narrow situations where vertical accent is required.



LEAF SEASON
Deciduous

LEAF COLOR
Green, Red

FLOWER COLOR
n/a

FLOWER SEASON
n/a

FRUIT SEASON
n/a

FRUIT TYPE
n/a



HABIT
Columnar

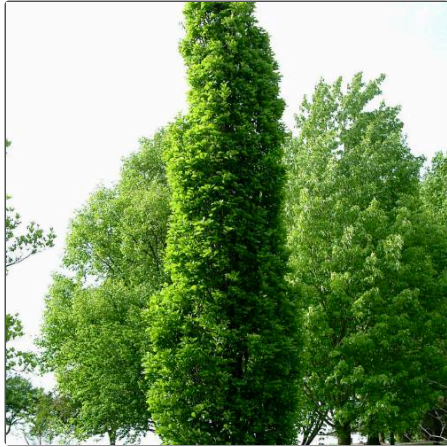
DESIGN STYLES
English Cottage, Formal, Meadow, Ranch, Woodland

LOCATION USES
Background, Parking Strip, Park, Street Tree

ATTRACTS WILDLIFE
n/a

Quercus x Kindred Spirit®

Kindred Spirit Hybrid Oak



PLANT TYPE

Tree

HEIGHT

20-40 ft.

WIDTH

5-10 ft.

SUN

Full

WATER

Medium

SOIL

Sandy, Clay, Loam

DESCRIPTION

Kindred Spirit® ('Nadler') Hybrid Oak is an interspecific hybrid of the Columnar English Oak (*Q. robur fastigiata*) and Swamp Oak (*Q. bicolor*). The habit is tightly columnar, and the foliage is clean and mildew resistant. The leaves are dark green with a silver underside, turning shades of yellow and bronze in fall. *Quercus x Kindred Spirit®* would make an excellent tall hedge, or be an attractive architectural element when used as a specimen.

LEAF SEASON

Deciduous

LEAF COLOR

Dark Green, Yellow

FLOWER COLOR

n/a

FLOWER SEASON

n/a

FRUIT SEASON

n/a

FRUIT TYPE

Nut / Nutlet

HABIT

Columnar

DESIGN STYLES

English Cottage, Formal, Ranch, Woodland

LOCATION USES

Background, Lawn, Park

ATTRACTS WILDLIFE

Birds

Shrubs

Chamaecyparis obtusa 'Nana Gracilis'

Hinoki Cypress



PLANT TYPE

Shrub

HEIGHT

9 ft.

WIDTH

4 ft.

SUN

Full, Half

WATER

Medium, Extra in Summer

SOIL

Sandy, Loam

DESCRIPTION

This beautiful conifer slowly (may take 10 years) reaches 3' but eventually may reach 9' tall and 4' wide. Mature habit is pyramidal or cone-shaped. Foliage is evergreen with flattened branches of dark green, scale-like leaves. It is aromatic if crushed. This shrub does best in full to part sun with well draining, moist, fertile soil. Plant in sheltered area, not in windy locations.



LEAF SEASON

Evergreen

LEAF COLOR

Dark Green

FLOWER COLOR

n/a

FLOWER SEASON

n/a

FRUIT SEASON

n/a

FRUIT TYPE

n/a



HABIT

Broad, Pyramidal

DESIGN STYLES

Formal, Japanese

LOCATION USES

Entry, Shrub Border, Foundation, Patio, Walkways

ATTRACTS WILDLIFE

n/a

Fothergilla gardenii

Dwarf Forthergilla



PLANT TYPE

Shrub

HEIGHT

2-3 ft.

WIDTH

3-4 ft.

SUN

Half, Shade

WATER

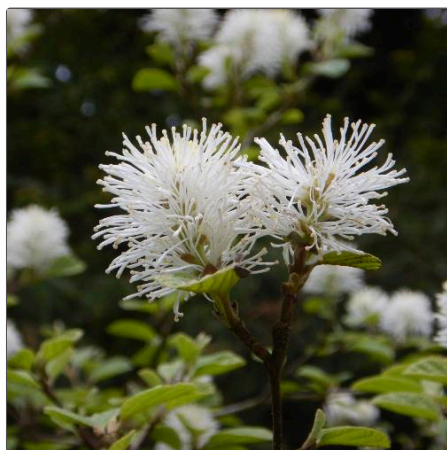
Medium, Extra in Summer

SOIL

Sandy, Loam

DESCRIPTION

A valuable compact ornamental shrub used for hedges and borders to provide multi-season interest in the landscape. Fragrant, creamy white, fuzzy, bottlebrush flowers cover the low, mounded, dense form in spring, followed by thick, toothy blue-green leaves in summer. Fall foliage is a brilliant medley of yellow, red, and orange. Deciduous.



LEAF SEASON

Deciduous

LEAF COLOR

Blue Green

FLOWER COLOR

White

FLOWER SEASON

Spring

FRUIT SEASON

n/a

FRUIT TYPE

n/a



HABIT

Round

DESIGN STYLES

English Cottage, Meadow, Water Garden, Wetlands, Woodland

LOCATION USES

Background, Raised Planter

ATTRACTS WILDLIFE

Pollinators, Bees, Butterflies

Ilex crenata 'Hetzii'

Heitz Japanese Holly



PLANT TYPE

Shrub

HEIGHT

3-8 ft.

WIDTH

4-6 ft.

SUN

Full, Half, Shade

WATER

Medium, Extra in Summer

SOIL

Sandy, Clay, Loam, Rocky, Unparticular

DESCRIPTION

Hetz's Japanese holly is an evergreen shrub, but it is a broadleaved, rather than a needled, evergreen. Its glossy, delicate leaves can make it a great choice if you are in the market for a bush with dense foliage that stays green year-round. Moderate-growing Hetz's Japanese holly is commonly confused with boxwood. These two popular shrubs are indeed similar, but they have subtle differences in appearance as well as pollination habits.



LEAF SEASON

Evergreen

LEAF COLOR

Dark Green

FLOWER COLOR

Green, White

FLOWER SEASON

Spring

FRUIT SEASON

Fall

FRUIT TYPE

Berry



HABIT

Upright

DESIGN STYLES

English Cottage, Formal, Mediterranean, Ranch, Woodland

LOCATION USES

Background, Shrub Border, Patio, Street Tree, Walls / Fences, With Rocks

ATTRACTS WILDLIFE

Birds

Juniperus communis 'Blueberry Delight'

Blueberry Delight Juniper



PLANT TYPE

Shrub

HEIGHT

0.8-1 ft.

WIDTH

4-5 ft.

SUN

Full, Half, Shade

WATER

Low

SOIL

Sandy, Clay, Loam, Rocky, Unparticular

DESCRIPTION

This beautiful plant was a native selection found in the rugged Dakota Badlands. Blueberry Delight Juniper (*Juniperus communis* var. *depressa* 'AmDak') is a tough little customer with a very exciting densely spreading growth habit. It's an ornamental evergreen that can grow in almost any dry condition.



LEAF SEASON

Evergreen

LEAF COLOR

Dark Green

FLOWER COLOR

n/a

FLOWER SEASON

n/a

FRUIT SEASON

Spring, Summer

FRUIT TYPE

n/a



HABIT

Prostrate

DESIGN STYLES

Japanese, Mediterranean, Seascapes

LOCATION USES

Entry, Patio, Raised Planter, With Rocks

ATTRACTS WILDLIFE

n/a

Microbiota decussata

Siberian Carpet Cypress



PLANT TYPE

Shrub

HEIGHT

1.5-2 ft.

WIDTH

7-8 ft.

SUN

Full, Half, Shade

WATER

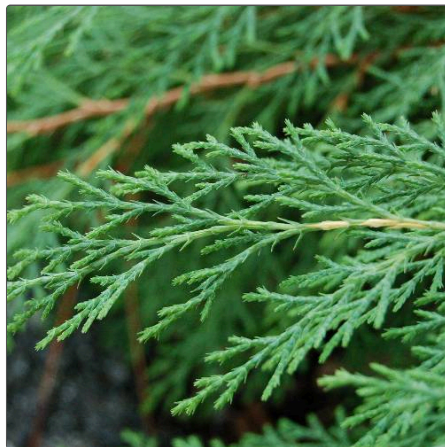
Very Low, Low, Medium

SOIL

Sandy, Clay, Loam, Rocky, Unparticular

DESCRIPTION

Microbiota decussata is an evergreen shrub. Neat sprawling shrub that resembles a trailing arborvitae. Grows to 1.5' tall, 7'-8' wide, with many horizontal or trailing plume-like branches closely set with scale-like leaves.



LEAF SEASON

Evergreen

LEAF COLOR

Green

FLOWER COLOR

n/a

FLOWER SEASON

n/a

FRUIT SEASON

n/a

FRUIT TYPE

n/a



HABIT

Arching, Prostrate

DESIGN STYLES

Japanese

LOCATION USES

Entry, Shrub Border, Foundation, Patio, Park, With Rocks

ATTRACTS WILDLIFE

n/a

Picea abies 'Nidiformis'

Bird's Nest Spruce



PLANT TYPE

Shrub

HEIGHT

3 ft.

WIDTH

4 ft.

SUN

Full, Half

WATER

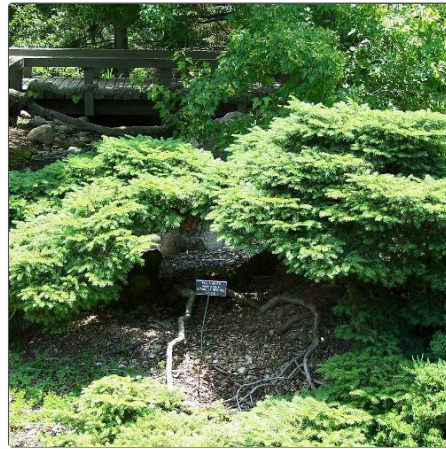
Medium

SOIL

Sandy, Clay, Loam, Rocky, Unparticular

DESCRIPTION

A stand-alone pendulous specimen that will grow as wide as it is high over time and add character to any rock garden or landscape. The unusual coning habit tends to modify the growth rate and shape.



LEAF SEASON

Evergreen

LEAF COLOR

Green, Light Green

FLOWER COLOR

n/a

FLOWER SEASON

n/a

FRUIT SEASON

Spring

FRUIT TYPE

n/a



HABIT

Pyramidal

DESIGN STYLES

Japanese, Ranch, Woodland

LOCATION USES

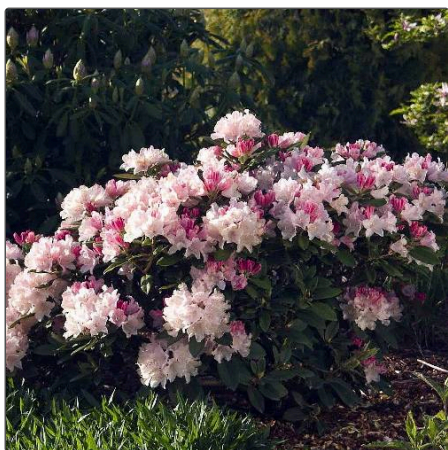
Entry, Shrub Border, Foundation, Park, With Rocks

ATTRACTS WILDLIFE

n/a

Rhododendron 'Yaku Princess'

Yaku Princess Rhododendron



PLANT TYPE

Shrub

HEIGHT

4-5 ft.

WIDTH

4-5 ft.

SUN

Half, Shade

WATER

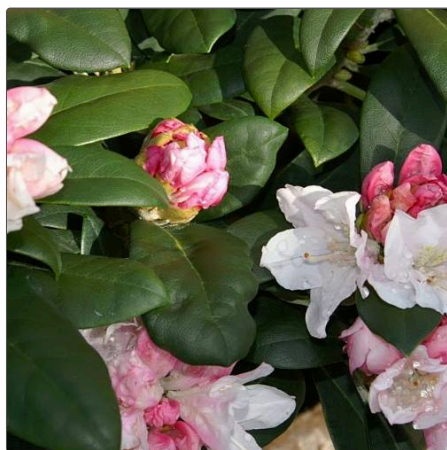
Medium

SOIL

Loam

DESCRIPTION

Yaku Princess Rhododendron is a unique variety with a compactly branched low growth; bushy. In mid spring spheres of pinkish-white blooms with deeper pink and green spotting on the florets appear; trusses of apple-blossom pink buds open to white in spring. The green foliage has long leaves that have fuzzy, tan-orange undersides. Yaku Princess is vigorous, sun tolerant, and a low maintenance rhododendron that is perfect for foundation plantings.



LEAF SEASON

Evergreen

LEAF COLOR

Yellow Green

FLOWER COLOR

Pink, White, Multi-Colored

FLOWER SEASON

Spring

FRUIT SEASON

n/a

FRUIT TYPE

n/a



HABIT

Mound, Round

DESIGN STYLES

English Cottage, Formal, Japanese, Woodland

LOCATION USES

Entry, Shrub Border, Raised Planter, Walkways, With Rocks

ATTRACTS WILDLIFE

n/a

Rhus aromatica Gro-Low

Gro-Low Fragrant Sumac



PLANT TYPE

Shrub

HEIGHT

2-3 ft.

WIDTH

6-8 ft.

SUN

Full

WATER

Very Low, Extra in Summer

SOIL

Sandy, Clay, Loam, Rocky, Unparticular

DESCRIPTION

Rhus aromatica, commonly called fragrant sumac, is a deciduous Missouri native shrub which occurs in open woods, glades and thickets throughout the State. A dense, low-growing, rambling shrub which spreads by root suckers to form thickets in the wild. Typically grows 2-4' tall (less frequently to 6') and spreads to 10' wide. Trifoliate, medium green leaves turn attractive shades of orange, red and purple in autumn. Leaves and twigs are aromatic when bruised (hence the species name). Although smaller, the leaves resemble in appearance those of the related poison ivy (*Rhus radicans*). - Missouri Botanical Garden



LEAF SEASON

Evergreen

LEAF COLOR

Green, Dark Green

FLOWER COLOR

White

FLOWER SEASON

Spring

FRUIT SEASON

Summer

FRUIT TYPE

Berry



HABIT

Mound, Round

DESIGN STYLES

Mediterranean, Ranch, Spanish

LOCATION USES

Background, Shrub Border, Park, Roadside, With Rocks

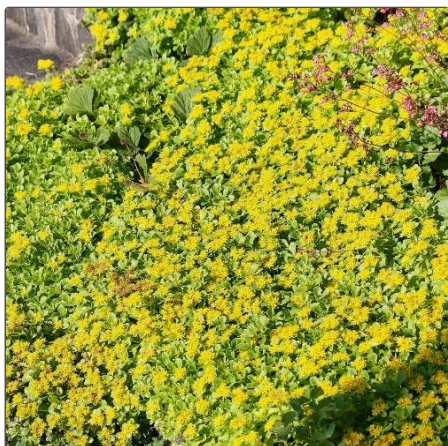
ATTRACTS WILDLIFE

n/a

Ground Covers

Sedum 'Weihenstephaner Gold'

Weihenstephaner Gold Stonecrop



PLANT TYPE
Ground cover

HEIGHT
0.25 ft.

WIDTH
2 ft.

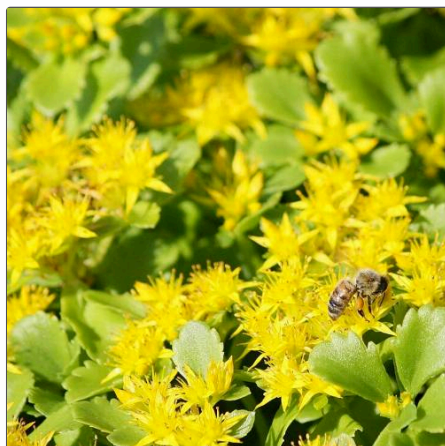
SUN
Full

WATER
Low, Medium

SOIL
Sandy, Rocky

DESCRIPTION

'Weihenstephaner Gold' is a cultivar that features starry pale yellow flowers which acquire pink tones with age, blooming in summer on plants clad with and silvery gray-green foliage. It typically grows to only 3-4" tall.



LEAF SEASON
Evergreen

LEAF COLOR
Yellow Green

FLOWER COLOR
Yellow

FLOWER SEASON
Spring

FRUIT SEASON
n/a

FRUIT TYPE
n/a



DESIGN STYLES
Meadow, Mediterranean, Ranch, Spanish

LOCATION USES
Entry, Perennial Border, Patio, Walkways, With Rocks

ATTRACTS WILDLIFE
Pollinators

Perennials

Ajuga reptans 'Gaiety'

Gaiety Bugleweed



PLANT TYPE

Perennial

HEIGHT

0.5-0.75 ft.

WIDTH

1 ft.

SUN

Full, Half

WATER

Medium, High, Extra in Summer

SOIL

Sandy, Loam, Rocky

DESCRIPTION

A vigorous, low growing and spreading selection that features oval, bronze-purple foliage; lilac-purple flower spikes appear in the spring and into the early summer; heat tolerant and low maintenance; deadhead spent flowers.



LEAF SEASON

Evergreen

LEAF COLOR

Bronze, Green

FLOWER COLOR

Blue

FLOWER SEASON

Spring, Summer

FRUIT SEASON

n/a

FRUIT TYPE

n/a



HABIT

Horizontal, Mound

DESIGN STYLES

Meadow, Spanish, Wetlands, Woodland

LOCATION USES

Perennial Border

ATTRACTS WILDLIFE

Pollinators

Amsonia hubrichtii

Arkansas Amsonia



PLANT TYPE

Perennial

HEIGHT

2-3 ft.

WIDTH

2-3 ft.

SUN

Full, Half

WATER

Medium

SOIL

Loam

DESCRIPTION

This southern native has very narrow, needle-like leaves that line the stems like bottle brushes. Surprisingly, they are soft as silk to the touch. From late spring thru early summer, 2-3 inch wide clusters of small, light blue, star-shaped flowers are borne above the short mound of ferny foliage. After blooming, it quickly grows to reach a height of about 3 feet. Amsonia adds a billowy, finely textured element to the landscape. It grows into a dense mass, much like a small shrub. The cool blue flowers can be useful in toning down adjacent flower colors. The most valuable feature of amsonia is its fall color; the entire plant turns a stunning shade of golden yellow. It makes an excellent backdrop for fall-blooming perennials such as sedums and garden mums.



LEAF SEASON

Deciduous

LEAF COLOR

Gold, Green

FLOWER COLOR

Blue

FLOWER SEASON

Spring, Summer

FRUIT SEASON

n/a

FRUIT TYPE

n/a



DESIGN STYLES

English Cottage, Formal, Japanese, Meadow, Mediterranean, Ranch, Water Garden, Wetlands, Wild Garden, Woodland

LOCATION USES

Perennial Border, Shrub Border, Foundation, Patio, Walkways, With Rocks

ATTRACTS WILDLIFE

Pollinators, Bees, Butterflies

Amsonia tab. 'Blue Ice'

Blue Ice Amsonia



PLANT TYPE

Perennial

HEIGHT

1-1.3 ft.

WIDTH

2 ft.

SUN

Full, Half

WATER

Medium

SOIL

Loam

DESCRIPTION

Blue Ice bears gorgeous plump navy blue buds in late spring, opening to vivid periwinkle blue, star-shaped flowers. They are larger than the species and are borne in clusters at the ends of each stem. The bright green, compact, slowly spreading foliage forms the perfect background for the delightful blossoms and then turns a rich shade of yellow in fall. Amsonia adds a billowy, finely textured element to the landscape. It grows into a dense mass, much like a small shrub.



LEAF SEASON

Evergreen

LEAF COLOR

Green

FLOWER COLOR

Blue

FLOWER SEASON

Spring, Summer

FRUIT SEASON

n/a

FRUIT TYPE

n/a



DESIGN STYLES

English Cottage, Formal, Japanese, Meadow, Mediterranean, Ranch, Water Garden, Wetlands, Wild Garden, Woodland

LOCATION USES

Perennial Border, Shrub Border, Foundation, Patio, Walkways, With Rocks

ATTRACTS WILDLIFE

Pollinators, Bees, Butterflies

Amsonia tabernaemontana

Amsonia



PLANT TYPE

Perennial

HEIGHT

2-3 ft.

WIDTH

2-3 ft.

SUN

Full, Half

WATER

Medium

SOIL

Loam

DESCRIPTION

Amsonia bears gorgeous blue buds in late spring, opening to vivid periwinkle blue, star-shaped flowers. They are larger than the species and are borne in clusters at the ends of each stem. The bright green, compact, slowly spreading foliage forms the perfect background for the delightful blossoms and then turns a rich shade of yellow in fall. Amsonia adds a billowy, finely textured element to the landscape. It grows into a dense mass, much like a small shrub.

LEAF SEASON

Evergreen

LEAF COLOR

Green

FLOWER COLOR

Blue

FLOWER SEASON

Spring, Summer

FRUIT SEASON

n/a

FRUIT TYPE

n/a

DESIGN STYLES

English Cottage, Formal, Japanese, Meadow, Mediterranean, Ranch, Water Garden, Wetlands, Wild Garden, Woodland

LOCATION USES

Perennial Border, Shrub Border, Foundation, Patio, Walkways, With Rocks

ATTRACTS WILDLIFE

Pollinators, Bees, Butterflies

Geranium macrorrhizum 'Bevan's Variety'

Bevan's Variety Geranium



PLANT TYPE

Perennial

HEIGHT

1 ft.

WIDTH

1.5 ft.

SUN

Full, Half

WATER

Low, Extra in Summer

SOIL

Loam

DESCRIPTION

This is the best Geranium for ground cover use. It spreads quickly (but not invasively) and produces a canopy of deeply cut, bright green leaves so dense that weeds have no hope of gaining a toehold. It tolerates dry shade, conditions under which most plants quickly perish. Yes, it does flower, putting on a good display of 1" soft pink blooms in May and June. The leaves are highly aromatic and provide fall color in shades of red and orange as a finishing touch.



LEAF SEASON

Evergreen

LEAF COLOR

Green

FLOWER COLOR

Purple

FLOWER SEASON

Spring, Summer

FRUIT SEASON

n/a

FRUIT TYPE

n/a



HABIT

Mound

DESIGN STYLES

English Cottage, Meadow, Mediterranean, Ranch, Spanish, Woodland

LOCATION USES

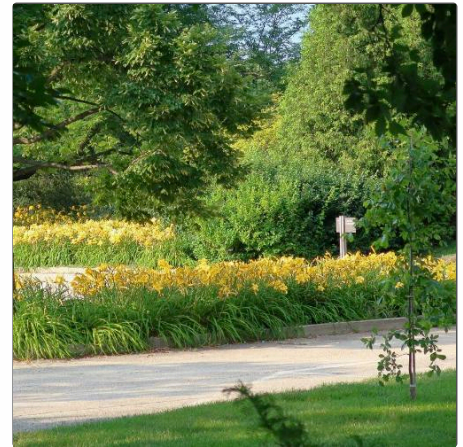
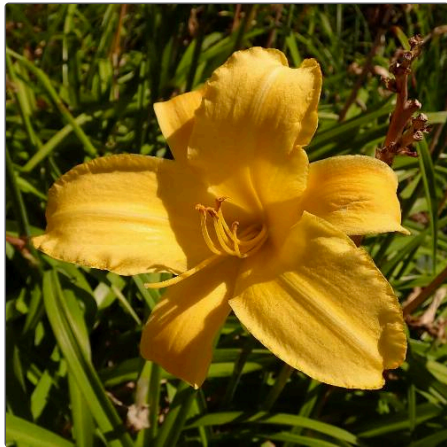
Entry, Perennial Border, Patio, Raised Planter, Walkways, With Rocks

ATTRACTS WILDLIFE

n/a

Hemerocallis 'Mary Todd'

Mary Todd Daylily



PLANT TYPE

Perennial

HEIGHT

2 ft.

WIDTH

2 ft.

SUN

Full, Half

WATER

Medium, Extra in Summer

SOIL

Loam

DESCRIPTION

Always Afternoon has 5½", dusky rose self with a striking plum purple eyezone and a green throat Petals are crimped with thin buff pink edges, sepals are smooth Semi-evergreen foliage stays nice all season

LEAF SEASON

Evergreen

LEAF COLOR

Green

FLOWER COLOR

Yellow

FLOWER SEASON

Summer, Fall

FRUIT SEASON

n/a

FRUIT TYPE

n/a

HABIT

Upright

DESIGN STYLES

English Cottage, Mediterranean, Ranch, Seascapes

LOCATION USES

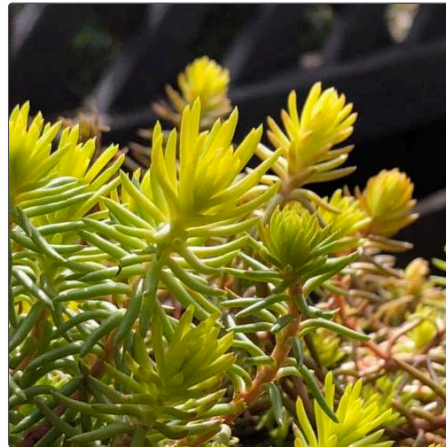
Entry, Perennial Border, Patio, Raised Planter, Walkways, With Rocks

ATTRACTS WILDLIFE

Birds, Hummingbirds, Butterflies, Wildlife

Sedum 'Angelina's Teacup'

Angelina's Teacup Stonecrop



PLANT TYPE

Perennial

HEIGHT

0.25 ft.

WIDTH

1.2 ft.

SUN

Full

WATER

Low, Medium

SOIL

Sandy, Rocky

DESCRIPTION

Sedum Angelina's Teacup is a wonderful addition to the Sunsparkler series. This Sedum has a bright color all year round without the use of fertilizers. In spring, summer and autumn, Angelina's Teacup is golden yellow; in winter, this Sedum turns more orange. Compared to Sedum Angelina, Angelina's Teacup has a more dense and better branched habit. Angelina's Teacup does not bloom and therefore retains her beautiful, compact shape. It is a perfect Sedum as a ground cover but can also be used as a garden or pot plant. Angelina's Teacup becomes about 10 cm tall and 45 cm wide. Is hardy up to -25°C. Plant Angelina's Teacup in a well-drained soil that is not too heavy. Angelina's Teacup can be placed in the full sun as well as the semi-shade, but she prefers a spot in the sun.

LEAF SEASON

Evergreen

LEAF COLOR

Yellow Green

FLOWER COLOR

n/a

FLOWER SEASON

n/a

FRUIT SEASON

n/a

FRUIT TYPE

n/a

DESIGN STYLES

Meadow, Mediterranean, Ranch, Spanish

LOCATION USES

Entry, Patio, Walkways, With Rocks

ATTRACTS WILDLIFE

Pollinators

Sedum Sunsparkler 'Dazzleberry'

Dazzleberry Stonecrop



PLANT TYPE

Perennial

HEIGHT

0.5 ft.

WIDTH

1-3'

SUN

Full

WATER

Low

SOIL

Sandy, Clay, Rocky

DESCRIPTION

Bold and beautiful, SunSparkler® 'Dazzleberry' Sedum sports smoky blue-grey foliage in 6-inch-tall mounds. Come late summer, raspberry flower clusters cover the plant for long-lasting color. Easy-to-grow and pollinator-friendly, it's a great low maintenance perennial for groundcovers, rock gardens, borders, and containers in sunny, dry areas. 'Dazzleberry' will naturalize and spread creating a carpet of easy-care color.



LEAF SEASON

Evergreen

LEAF COLOR

Blue Green, Purple

FLOWER COLOR

Pink

FLOWER SEASON

Summer, Fall

FRUIT SEASON

n/a

FRUIT TYPE

n/a



HABIT

Prostrate

DESIGN STYLES

Formal, Meadow, Mediterranean, Ranch, Spanish

LOCATION USES

Entry, Perennial Border, Parking Strip, Patio, Walkways, With Rocks

ATTRACTS WILDLIFE

Pollinators

Sedum sexangulare

Tasteless Stonecrop



PLANT TYPE

Perennial

HEIGHT

0.25-0.5 ft.

WIDTH

1-2 ft.

SUN

Full

WATER

Low, Medium

SOIL

Sandy, Rocky

DESCRIPTION

Sedum Angelina's Teacup is a wonderful addition to the Sunsparkler series. This Sedum has a bright color all year round without the use of fertilizers. In spring, summer and autumn, Angelina's Teacup is golden yellow; in winter, this Sedum turns more orange. Compared to Sedum Angelina, Angelina's Teacup has a more dense and better branched habit. Angelina's Teacup does not bloom and therefore retains her beautiful, compact shape. It is a perfect Sedum as a ground cover but can also be used as a garden or pot plant. Angelina's Teacup becomes about 10 cm tall and 45 cm wide. Is hardy up to -25°C. Plant Angelina's Teacup in a well-drained soil that is not too heavy. Angelina's Teacup can be placed in the full sun as well as the semi-shade, but she prefers a spot in the sun.



LEAF SEASON

Evergreen

LEAF COLOR

Yellow Green

FLOWER COLOR

Yellow

FLOWER SEASON

Spring

FRUIT SEASON

n/a

FRUIT TYPE

n/a



HABIT

Prostrate, Weeping

DESIGN STYLES

Meadow, Mediterranean, Ranch, Spanish

LOCATION USES

Entry, Patio, Walkways, With Rocks

ATTRACTS WILDLIFE

Pollinators

Waldsteinia ternata

Siberian Barren Strawberry



PLANT TYPE

Perennial

HEIGHT

0.5 ft.

WIDTH

1 ft.

SUN

Full, Half

WATER

Low, Extra in Summer

SOIL

Sandy, Clay, Loam

DESCRIPTION

Glossy semi-evergreen groundcover for sun or shade. Distinctive 3-5 lobed leaves on stems spreading by stolons. Yellow flowers in spring. Can be utilized as a drought tolerant, weed-smothering, evergreen groundcover, in shaded conditions.



LEAF SEASON

Evergreen, Semi-evergreen

LEAF COLOR

Green

FLOWER COLOR

Yellow

FLOWER SEASON

Spring

FRUIT SEASON

n/a

FRUIT TYPE

n/a



HABIT

Prostrate

DESIGN STYLES

Japanese

LOCATION USES

Entry, Shrub Border, Foundation, Parking Strip, Patio, Park, Parking Lot, Walkways

ATTRACTS WILDLIFE

n/a

Grasses

Carex pensylvanica

Pennsylvania Sedge



PLANT TYPE

Grass

HEIGHT

0.5-1 ft.

WIDTH

0.5-1 ft.

SUN

Half, Shade

WATER

High, Extra in Summer

SOIL

Loam

DESCRIPTION

Pennsylvania Sedge has narrow, low-growing foliage that forms a lush green carpet. Our most popular native sedge, it makes a fine lawn alternative or ground cover. It spreads slowly by rhizomes and is most effective when planted in masses. *Carex pensylvanica* is perfect for woodland gardens or shady areas; however, it doesn't mind being planted in sun in cooler climates if it gets sufficient moisture. This petite, eight-inch beauty flowers in May. *Carex pensylvanica* is a great pollinator plant, supporting several caterpillar species. In the wild, it provides shelter and nesting material for birds. It is semi-evergreen and drought tolerant once established. This graceful little sedge is found in meadows or forest floors from Maine to Alabama and into the Dakotas.



LEAF SEASON

Evergreen

LEAF COLOR

Green

FLOWER COLOR

White

FLOWER SEASON

Spring

FRUIT SEASON

n/a

FRUIT TYPE

n/a



HABIT

Mound

DESIGN STYLES

Japanese, Meadow, Water Garden, Wetlands, Woodland

LOCATION USES

Entry, Perennial Border, Patio, Walkways, With Rocks

ATTRACTS WILDLIFE

n/a

Carex woodii

Wood's Sedge



PLANT TYPE

Grass

HEIGHT

0.5-1 ft.

WIDTH

0.75 ft.

SUN

Full, Half

WATER

Medium

SOIL

Sandy, Clay, Loam, Rocky, Unparticular

DESCRIPTION

Carex woodii is a lovely perennial woodland sedge with narrow fine textured leaves. This sedge forms clonal colonies from underground rhizomes. In spring a sparse offering of yellow-green spikelets are held above the leaves. In the wild, this species occurs in well drained, moist or dry acidic or calcareous woods. In landscape situations, Carex woodii is an excellent groundcover for the shade garden.



LEAF SEASON

Evergreen

LEAF COLOR

Green

FLOWER COLOR

Green

FLOWER SEASON

Spring

FRUIT SEASON

n/a

FRUIT TYPE

n/a



HABIT

Mound

DESIGN STYLES

Meadow, Ranch, Water Garden, Wetlands, Wild Garden, Woodland

LOCATION USES

Perennial Border, Shrub Border, Lawn, Patio, Swimming Pool, Walkways, With Rocks

ATTRACTS WILDLIFE

n/a

Deschampsia cespitosa

Tufted Hair Grass



PLANT TYPE

Grass

HEIGHT

2 ft.

WIDTH

1 ft.

SUN

Full, Half, Shade

WATER

Low

SOIL

Sandy, Clay, Loam, Rocky, Unparticular

DESCRIPTION

The tufted hairgrass is a warm season, clumping grass that grows 10" tall with summer flowers that reach to 2' tall. This grass tolerates partial shade and heavy clay soils. It is good in waterside plantings and for mountain area meadows. This grass is a California native and is a beneficial insect plant. Flowers are insignificant.

LEAF SEASON

Deciduous

LEAF COLOR

Green

FLOWER COLOR

Yellow

FLOWER SEASON

Summer

FRUIT SEASON

n/a

FRUIT TYPE

n/a

HABIT

Upright

DESIGN STYLES

Meadow, Water Garden, Wetlands, Wild Garden, Woodland

LOCATION USES

Shrub Border, Raised Planter, With Rocks

ATTRACTS WILDLIFE

Wildlife

Panicum virgatum 'Shenandoah'

Shenandoah Switch Grass



PLANT TYPE
Grass

HEIGHT
4-5 ft.

WIDTH
1.5 ft.

SUN
Full, Half

WATER
Medium

SOIL
Sandy, Loam

DESCRIPTION

Shenandoah is a selection of our native prairie switchgrass grown for its burgundy colored foliage and pinkish flower spikes. This grass has especially nice fall color with the grass blades tinted with red and orange. Drought resistant/drought tolerant plant (xeric).



LEAF SEASON
Deciduous

LEAF COLOR
Green, Purple

FLOWER COLOR
Purple, Red

FLOWER SEASON
Summer

FRUIT SEASON
n/a

FRUIT TYPE
n/a



HABIT
Upright

DESIGN STYLES
Japanese, Meadow, Ranch, Spanish, Woodland

LOCATION USES
Entry, Perennial Border, Foundation, Parking Strip, Patio, Park, Parking Lot, Roadside, Walls / Fences, Walkways, With Rocks

ATTRACTS WILDLIFE
n/a

Schizachyrium scoparium 'The Blues'

The Blues Bluestem



PLANT TYPE

Grass

HEIGHT

2-4 ft.

WIDTH

2-3 ft.

SUN

Full

WATER

Low

SOIL

Sandy, Clay, Loam, Rocky, Unparticular

DESCRIPTION

'The Blues' typically grows 2-4' tall. Features erect, upright, broom-like clumps of slender leaves (1/4" wide) which are tinted blue. Pinkish-tinged culms (stems). Foliage acquires burgundy-red tones in autumn. Purplish-bronze flowers appear in 3" long racemes on branched stems rising above the foliage in August. Flowers give way to clusters of fluffy, silvery-white seed heads which may persist into early winter. Blue foliage and fall color are probably the best ornamental features of this grass. -Missouri Botanic Garden



LEAF SEASON

Deciduous

LEAF COLOR

Bronze, Green, Blue Green

FLOWER COLOR

Pink, White

FLOWER SEASON

Summer, Fall

FRUIT SEASON

n/a

FRUIT TYPE

n/a



HABIT

Upright

DESIGN STYLES

Meadow, Wild Garden, Woodland

LOCATION USES

Perennial Border, Park, With Rocks

ATTRACTS WILDLIFE

n/a

Sporobolus heterolepis

Prairie Dropseed



PLANT TYPE

Grass

HEIGHT

1.4 ft.

WIDTH

1.5 ft.

SUN

Full

WATER

Low

SOIL

Rocky, Unparticular

DESCRIPTION

This beautiful, reliable grass slowly reaches 15" tall and 18" wide. Leaves are thin, green, turning gold orange in fall, then bronze in winter. Slender airy panicles of pink or brown flowers rise above the foliage in summer. This grass needs full sun with well draining, dry, average soil. It tolerates gravelly soil also. Tiny seeds drop in fall and are not considered a nuisance but birds love them.

LEAF SEASON

Semi-evergreen

LEAF COLOR

Green

FLOWER COLOR

Pink

FLOWER SEASON

Summer

FRUIT SEASON

n/a

FRUIT TYPE

n/a

HABIT

Prostrate, Vase

DESIGN STYLES

Meadow, Mediterranean, Ranch, Spanish, Woodland

LOCATION USES

Entry, Patio, Park, Raised Planter, Swimming Pool, Walkways, With Rocks

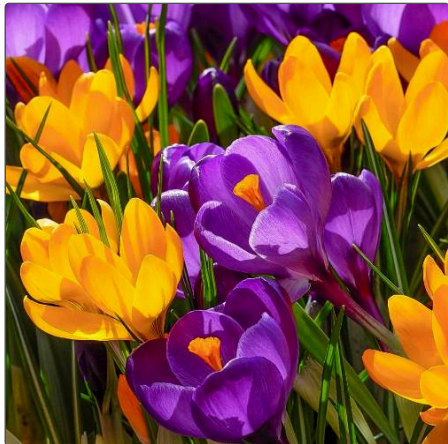
ATTRACTS WILDLIFE

Birds

Bulbs

Crocus hybrids

Crocus



PLANT TYPE

Bulb

HEIGHT

0.5-1 ft.

WIDTH

1-2 ft.

SUN

Full, Half

WATER

Medium

SOIL

Loam

DESCRIPTION

Crocus blooming is the signal for spring's arrival. It can be planted in borders, rock gardens, and even in the midst of a lawn. After flowering, the foliage must be left intact until it withers. Purple is the main color but they also come in white, lilac, or white stripes. Very early blooming; naturalizes in lawn. Provide full sun to light shade and average, well-drained soil.



LEAF SEASON

Deciduous

LEAF COLOR

Green

FLOWER COLOR

Purple, White

FLOWER SEASON

Spring

FRUIT SEASON

n/a

FRUIT TYPE

n/a



HABIT

Arching, Upright

DESIGN STYLES

English Cottage, Formal, Japanese, Meadow, Mediterranean, Ranch, Seascape, Spanish, Wetlands, Wild Garden, Woodland

LOCATION USES

Entry, Perennial Border, Lawn, Swimming Pool, Walkways, With Rocks

ATTRACTS WILDLIFE

n/a

Conifers

Chamaecyparis obtusa 'Kosteri'

Hinoki Cypress



PLANT TYPE

Conifer

HEIGHT

4-5 ft.

WIDTH

4-5 ft.

SUN

Full, Half

WATER

Medium, Extra in Summer

SOIL

Sandy, Loam

DESCRIPTION

Chamaecyparis obtusa 'Kosteri' is a very choice, irregularly pyramidal dwarf selection of Hinoki cypress with ascending branches and shell-like sprays of light olive-green foliage that assumes a bit of a yellow cast in winter. This attractive evergreen shrub has a rounded form that matures into a dwarf pyramidal shape. Flat sprays of deep green foliage add handsome texture to the landscape. Excellent for rock gardens or mixed borders. Withstands brief dry spells, once established in the landscape.



LEAF SEASON

Evergreen

LEAF COLOR

Yellow Green

FLOWER COLOR

n/a

FLOWER SEASON

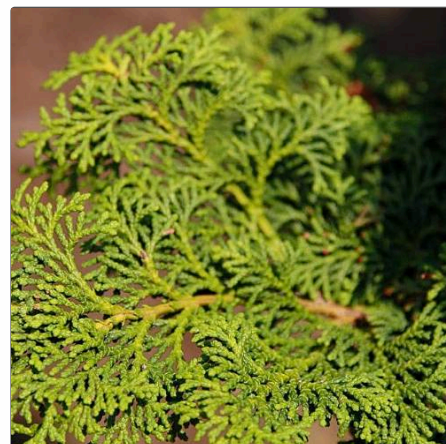
n/a

FRUIT SEASON

n/a

FRUIT TYPE

n/a



HABIT

Pyramidal, Round

DESIGN STYLES

Formal, Japanese

LOCATION USES

Entry, Shrub Border, Foundation, Patio, Walkways

ATTRACTS WILDLIFE

n/a

Juniperus procumbens 'Nana'

Dwarf Japanese Garden Juniper



PLANT TYPE

Conifer

HEIGHT

0.5-1 ft.

WIDTH

5-6 ft.

SUN

Full

WATER

Low

SOIL

Sandy, Clay, Loam, Rocky, Unparticular

DESCRIPTION

The very dense growth of this plant is highlighted by foliage of a bluish green color. Its growth habit is very low, spreading, and mound-like, resembling a natural bonsai. This variety is one of the best Junipers for small garden spaces. Junipers are highly combustible plants.



LEAF SEASON

Evergreen

LEAF COLOR

Blue Green

FLOWER COLOR

n/a

FLOWER SEASON

n/a

FRUIT SEASON

n/a

FRUIT TYPE

n/a



HABIT

Prostrate

DESIGN STYLES

Japanese, Seascape, Woodland

LOCATION USES

Entry, Shrub Border, Foundation, Parking Strip, Park, Raised Planter, With Rocks

ATTRACTS WILDLIFE

n/a

STORMWATER INSPECTION & MAINTENANCE PLAN

FOR

361 Hanover Street

Portsmouth, NH

Introduction

The intent of this plan is to provide 361 Hanover Street (herein referred to as “owner”) with a list of procedures that document the inspection and maintenance requirements of the drainage structures for this development.

The following inspection and maintenance program is necessary to keep the stormwater management system functioning properly. These measures will also help minimize potential environmental impacts. By following the enclosed procedures, the owner will be able to maintain the functionality of the drainage structures and maximize their ability to drain the site effectively from stormwater runoff.

Annual Report

The owner shall prepare an annual Inspection & Maintenance Report. The report shall include a summary of the system’s maintenance and repair by transmission of the Inspection & Maintenance Log and other information as required. A copy of the report shall be delivered annually to the City of Portsmouth Public Works Department.

Inspection & Maintenance Checklist/Log

The following pages contain a Stormwater Management System Inspection & Maintenance Checklist and a blank copy of the Stormwater Management System Inspection & Maintenance Log. These forms are provided to the owner as a guideline for performing the inspection and maintenance. This is a guideline and should be periodically reviewed for conformance with current practice and standards.

DRAINAGE STRUCTURE COMPONENTS

Non-Structural BMP’s

Non-Structural best management practices (BMP’s) include temporary and permanent measures that typically require less labor and capital inputs and are intended to provide protection against erosion of soils. Examples of non-structural BMP’s on this project include but are not limited to: temporary and permanent mulching, temporary and permanent grass cover, trees, shrubs and ground covers, miscellaneous landscape plantings, dust control, tree protection, topsoiling, sediment barriers, and a stabilized construction entrance.

Structural BMP's

Structural BMP's are more labor and capital-intensive structures or installations that require more specialized personnel to install. Examples on this project include but are not limited to storm drain catch basins, roof drains and pipes.

Inspection and Maintenance Requirements

The following summarizes the inspection and maintenance requirements for the various BMP's that may be found on this project.

- 1. Landscaped areas:** After each rain event of 0.5" or more during a 24-hour period, inspect landscaped areas for signs of disturbance, such as erosion. If damaged areas are discovered, immediately repair the damage. Repairs may include adding new topsoil, lime, seed, fertilizer and mulch.
- 2. Plantings:** Planting and landscaping (trees, shrubs) shall be monitored bi-monthly during the first year to insure viability and vigorous growth. Replace dead or dying vegetation with new stock and adjust the conditions that caused the dead or dying vegetation. During dryer times of the year, provide weekly watering or irrigation during the establishment period of the first year. Make the necessary adjustments to ensure long-term health of the vegetated covers, i.e. provide more permanent mulch or compost or other means of protection. Clean up dead leaves yearly to avoid drainage issues.
- 3. Storm Drain Catch Basins and Pipes:** Monitor drain inlets and outlets during construction. Monitor sediment levels in catch basin sumps and remove as necessary.
- 4. Roof Drains:** Maintain roof drains and review periodically for clogs. Roof drain filters will be installed within the buildings. Follow the Maintenance Specification as Detailed in the Plan Set.

Stormwater Management System

Inspection & Maintenance Checklist for Post Construction Condition—for 361 Hanover Street, Portsmouth, NH

BMP/System Component	Minimum Inspection Frequency	Minimum Inspection Requirements	Maintenance/Cleanout Threshold
Closed Drainage System			
Drainage Pipes and Roof Drains	Yearly	<i>Check for sediment clogging, or soiled runoff.</i>	Clean entire drainage system and remove all sediments if discovered in piping.
Catch Basins	Bi-Annually	<i>Check for excessive accumulation of sediment in sump</i>	Remove sediment as necessary
Annual Report	Yearly	<i>Prepare Annual Report, including all Inspection & Maintenance Logs. Provide to City (if required).</i>	N/A

Stormwater Management System Maintenance Summary

Inspection & Maintenance Log—for 361 Hanover Street, Portsmouth, NH

BMP/System Component	Date Inspected	Inspector	Problems Noted, Required Maintenance <i>(List Items/Comments)</i>	Date of Maintenance	Performed By

Data Sheets



MEMORANDUM

DATE: March 14, 2025

TO: City of Portsmouth Planning Board

PROJECT: Redevelopment Plan at
361 Hanover Street
Portsmouth, NH 03801

REGARDING: Green Building/Energy Compliance Statement

Building energy compliance/performance will be measured by The Home Energy Rating System (HERS) Index. This is the industry standard by which a home's energy efficiency is measured. It's also the nationally recognized system for inspecting and calculating a home's energy performance. The target rating will be HERS 50 or less which far exceeds the 2018 IECC requirement of HERS 61 for Climate Zone 5.

Proposed buildings will exceed most of the requirements of the 2018 Energy Conservation Code including the following features:

Building Shell Features:

- Slab Insulation – R-10.0 Edge, R-10.0 Under
- Windows – U-Value: .280, SHGC: .4
- Exposed Floor – R-30.0
- Walls – R-20 plus R-5 cont. insulation
- Roof – R-49
- Infiltration Rate – 3.0 ACH50 (Blower Door Test)

Mechanical System Features:

- Building Load Calculations - Performed in accordance with ASHRAE 140
- Air Source Heat Pump – Electric Heating 10.0 HPSF, Cooling 18.0 SEER
- Water Heating – Conventional Electric, .92 EF, 40.0 Gal.
- Ventilation System – Balanced ERV, 150 CFM, 75.0 Watts, Compliance with ASHRAE 62
- Programmable Thermostats- Heating/Cooling
- Plumbing Fixtures - Fixture flow rates to comply with the International Green Construction Code (IgCC). Showers, Sinks and lavatories with flows of

SCOTT M BROWN

ESTD | ARCHITECTS | 2007

2.0/1.8/1.5gpm respectively.

- Toilets - Dual-flush tank-type toilets with flows of 0.9/1.28gal per flush

Lights and Appliance Features:

- Interior Lighting - 100% LED most being Energy Star and/or DLC (Design Lighting Consortium) rated.
- Exterior Lighting - 100% LED, to include auto daylight shutoffs.
- Lighting Controls - Use of Dimmers, Daylighting Control Sensors and Photoelectric Sensors which further enhance energy savings and meet energy codes.
- Refrigerator - <600 kWh/yr
- Dishwasher - <270 kWh/yr
- Range/Oven Fuel - Natural Gas, Electric Induction Cooktop Option
- Clothes Dryer Fuel - Electric

Building Features:

- Wiring for Electric Vehicle Ready Spaces - 1 per Unit
- Solar ready roof zones on roof pitches of 3/12 or less (oriented between 110° and 270° of true north) and capped roof penetration sleeves for future solar to be provided.

CLRv3 Select

Commercial Recessed LED Downlight

Product Description

Designed for both new construction and retrofit applications, the CLR Select series can be installed directly into drywall, a ceiling grid or an existing 4", 6" or 8" mounting frame using spring loaded retention tabs. The CCT and output selectable design allows for easy adjustment to 3000, 3500, 4000, or 5000K and standard, medium or high output. With Standard and Low Output models available, the lighting can be easily tailored to match the space or meet rebate levels. With accessory trims in black and offering a full range of dimming via 1-10 volts, the CLR Select is adaptable to most any environment. The versatility of this light source is perfect for commercial applications, such as educational, governmental, retail and grocery, office or hospitality lighting.

Construction

- Spun aluminum trim
- Plastic driver housing
- 3' flexible metal conduit (FMC) whip
- Matte white powder coat
- Black faceplates available

Optical System

- Precision engineered polystyrene diffuser provides high uniformity, and reduced glare
- No visible diodes, hot-spots, or shadows
- 4 CCT selection (3000K, 3500K, 4000K, 5000K) via switch on driver cover

Electrical

- 5 Wire whip - 3 Input (L,N,G) and 2 controls (DIM+, DIM-)
- Universal range input 120 - 277 VAC, 60Hz
- 3 wattage selection (Standard, Medium, High) via switch on driver cover
- Default Setting of 4000K and Standard output
- 2 models of output - Standard and Low

Controls

- Dimming via 1-10VDC controls
- Available Bluetooth Wireless Controls Accessory. See: www.nicorlighting.com/network-lighting-controls

Mounting and Installation

- Adjustable, spring loaded retention tabs ensure secure fixture retention on ceilings up to 1 1/2" thick
- Easy installation into most 4", 6" or 8" incandescent or fluorescent frames
- Frame not needed for new construction installation
- NON-IC Operating temperature of 0°F to 104°F (-18°C to 40°C)
- IC Operating temperature of 0°F to 77°F (-18° to 25°C)
- Metal rough-in templates and frames available
- For installations where power surge may be possible, NICOR recommends installing additional surge protection at the fixture or electrical distribution panel

Listings

- cULus 1598 Listed for wet locations
- Certified for direct contact with insulation - 4" model only
- Meets ASTM E283 airtight requirements
- TAA compliant
- RoHS compliant
- Meets FCC Part 15, Subpart B, Class A standards for conducted and radiated emissions
- TM-21 Reported L70(9k) life >72,000 hours
- LM-79, LM-80 testing performed in accordance with IESNA standards

Warranty

- 5-year limited system warranty standard
- Warranty does not cover product failure due to an overvoltage event (power surge)

Project

Catalog

Type

Date



CLRv3 Commercial LED Downlight 4", 6", 8" Diameters Selectable Wattage & CCT



1) 4" only

CLRv3 Select

Commercial Recessed LED Downlight

Ordering

Ordering Information							Example: CLR63SUS9WH
Series	Diameter	Version	Wattage	Voltage	CCT	CRI	Color
CLR	4 (4 inch)	3 (Version 3.0)	S (Selectable)	U (120-277V)	S (Selectable)	9 (90 CRI)	WH (White)
	6 (6 inch)		SL (Selectable Low Lumen)				
	8 (8 inch)						

Specifications and dimensions subject to change without notice.

Recommended Dimmers*

Lutron NTSTV-DV-WH
Lutron DVSTV
Cooper SF10P
Legrand RH4FBL3PW

Accessories

Accessories sold separately.

Black 4" Trim	CLR43-TR-BK
Black 6" Trim	CLR63-TR-BK
Black 8" Trim	CLR83-TR-BK
3", 4", 6" Rough In Flat Template	ROUGHIN-TEMPLATE-346
8" Rough in Template	ROUGHIN-TEMPLATE-8
4" Rough In Frame	DLE4-ROUGHIN-FRAME
6" Rough In Frame	DLE6-ROUGHIN-FRAME
3", 4", 6" Rough In Frame	MULTIFRAME-346-1
Emergency Battery Backup	EMI200-1-UNV
Bluetooth Wireless Controls	NLCDOWN1

CLRV3 Select

Commercial Recessed LED Downlight

Performance Data			Standard Output			Low Output		
Model Number	Output Setting	Nominal CCT	Light Output (lm)	Power Draw (W)	Efficiency (Lm/W)	Light Output (lm)	Power Draw (W)	Efficiency (Lm/W)
CLR43SUS9WH	Standard	3000	806	7.0	115.2	594	6.9	86.5
		3500	818		116.9	615	6.7	91.6
		4000	829		118.4	622	6.6	93.9
		5000	830		118.6	600	6.8	88.4
CLR43SLUS9WH	Medium	3000	1137	9.9	114.8	686	7.8	87.4
		3500	1164		117.6	710	7.7	92.6
		4000	1183		119.5	718	7.6	94.9
		5000	1174		118.6	693	7.8	89.3
	High	3000	1269	10.8	117.5	768	8.8	87.0
		3500	1300		120.4	795	8.6	92.2
		4000	1322		122.4	804	8.5	94.4
		5000	1309		121.2	776	8.7	88.9
CLR63SUS9WH	Standard	3000	1238	12.8	96.7	639	6.9	92.1
		3500	1288		100.6	685	6.7	102.5
		4000	1314		102.7	703	6.7	105.5
		5000	1319		103.0	681	6.9	98.8
CLR63SLUS9WH	Medium	3000	1654	17.5	94.5	798	8.9	89.6
		3500	1737		99.3	857	8.6	99.6
		4000	1782		101.8	879	8.6	102.6
		5000	1767		101.0	852	8.9	96.0
	High	3000	2119	24.0	88.3	1011	10.9	92.8
		3500	2132		88.8	1085	10.5	103.2
		4000	2250		93.8	1113	10.5	106.3
		5000	2273		94.7	1079	10.8	99.5
CLR83SUS9WH	Standard	3000	2602	24.9	104.5	1017	11.6	87.3
		3500	2750		110.4	1042	11.4	91.1
		4000	2802		112.5	1044	11.5	91.0
		5000	2764		111.0	1026	11.6	88.4
CLR83SLUS9WH	Medium	3000	2988	29.3	102.0	1525	15.5	98.3
		3500	3194		109.0	1564	15.3	102.5
		4000	3257		111.2	1566	15.3	102.4
		5000	3192		109.0	1539	15.5	99.5
	High	3000	3480	34.9	99.7	2135	21.3	100.0
		3500	3521		100.9	2189	21.0	104.4
		4000	3668		105.1	2193	21.0	104.2
		5000	3692		105.8	2154	21.3	101.3

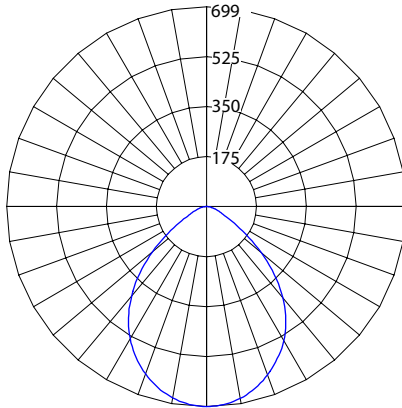
CLRV3 Select

Commercial Recessed LED Downlight

Photometric Data - Standard Output

CLR4 11W, 3000K

Input Voltage (VAC)	120-277
System Level Power (W)	10.8
Delivered Lumens (Lm)	1269
System Efficacy (Lm/W)	117.5
Correlated Color Temp (K)	3048
Color Rendering Index (CRI)	95 R9=64
Beam Angle	83.6
Spacing Criteria	1.16



Intensity Summary (Candle Power)	
Angle	Mean CP
0	699
5	696
15	663
25	594
35	480
45	312
55	150
65	73
75	37
85	10
90	0

Cone of Light Tabulation		
Mounted height (Inches)	Footcandles Beam Center	Diameter (Feet)
4	43.7	7.2
6	19.4	10.7
8	10.9	14.3
10	7.0	17.9
12	4.8	21.5
14	3.5	25.0
16	2.7	28.6

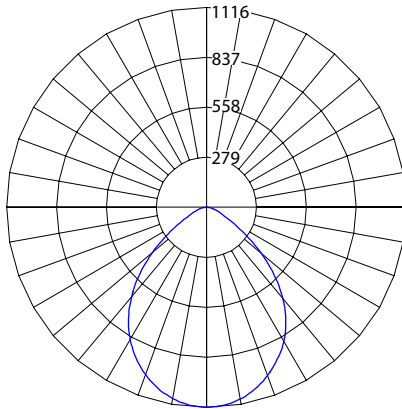
Zonal Lumen Summary		
Zone	Lumens	% of Luminaire
0-30	519	40.9%
0-40	806	63.6%
0-60	1156	91.1%
0-90	1269	100%
90-180	0	0%
0-180	1269	100%

Data Multiplier applies to Lumens, Candle Power, Cone of Light, and Zonal Lumen Summary. See Performance Table for Lm, Watts and LPW values.

Data Multiplier				
	30K	35K	40K	50K
Low	0.635	0.645	0.653	0.654
Med	0.896	0.918	0.932	0.925
High	1.000	1.028	1.046	1.035

CLR6 24W, 3000K

Input Voltage (VAC)	120-277
System Level Power (W)	24.0
Delivered Lumens (Lm)	2119
System Efficacy (Lm/W)	88.3
Correlated Color Temp (K)	3000
Color Rendering Index (CRI)	93 R9=61
Beam Angle	87.9
Spacing Criteria	1.16



Intensity Summary (Candle Power)	
Angle	Mean CP
0	1116
5	1108
15	1045
25	930
35	759
45	525
55	260
65	99
75	45
85	11
90	0

Cone of Light Tabulation		
Mounted height (Inches)	Footcandles Beam Center	Diameter (Feet)
4	69.7	7.7
6	30.9	11.6
8	17.4	15.4
10	11.1	19.3
12	7.7	23.1
14	5.6	27.0
16	4.3	30.8

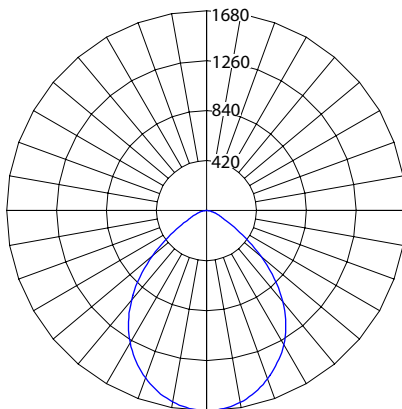
Zonal Lumen Summary		
Zone	Lumens	% of Luminaire
0-30	829	39.1%
0-40	1305	61.6%
0-60	1953	92.2%
0-90	2119	100%
90-180	0	0%
0-180	2119	100%

Data Multiplier applies to Lumens, Candle Power, Cone of Light, and Zonal Lumen Summary. See Performance Table for Lm, Watts and LPW values.

Data Multiplier				
	30K	35K	40K	50K
Low	0.548	0.608	0.620	0.622
Med	0.780	0.820	0.841	0.834
High	1.000	1.006	1.062	1.073

CLR8 34W, 3000K

Input Voltage (VAC)	120-277
System Level Power (W)	34.9
Delivered Lumens (Lm)	3480
System Efficacy (Lm/W)	99.7
Correlated Color Temp (K)	3065
Color Rendering Index (CRI)	93 R9=62
Beam Angle	93.8
Spacing Criteria	1.18



Intensity Summary (Candle Power)	
Angle	Mean CP
0	1678
5	1665
15	1574
25	1408
35	1183
45	895
55	551
65	208
75	61
85	15
90	0

Cone of Light Tabulation		
Mounted height (Inches)	Footcandles Beam Center	Diameter (Feet)
4	104.9	8.5
6	46.6	12.8
8	26.1	17.1
10	16.7	21.4
12	11.6	25.6
14	8.5	29.9
16	6.5	34.2

Zonal Lumen Summary		
Zone	Lumens	% of Luminaire
0-30	1252	36%
0-40	1992	57.2%
0-60	3178	91.3%
0-90	3480	100%
90-180	0	0%
0-180	3480	100%

Data Multiplier applies to Lumens, Candle Power, Cone of Light, and Zonal Lumen Summary. See Performance Table for Lm, Watts and LPW values.

Data Multiplier				
	30K	35K	40K	50K
Low	0.748	0.790	0.805	0.794
Med	0.859	0.918	0.936	0.917
High	1.000	1.012	1.054	1.061



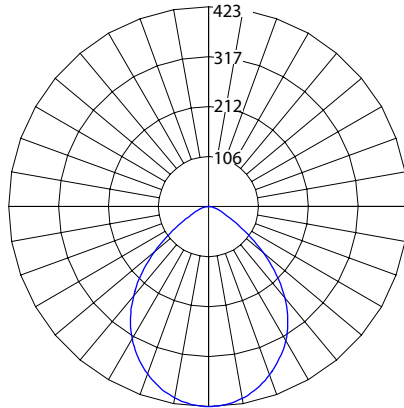
CLRV3 Select

Commercial Recessed LED Downlight

Photometric Data - Low Output

CLR4 9W, 3000K

Input Voltage (VAC)	120-277
System Level Power (W)	8.8
Delivered Lumens (Lm)	768
System Efficacy (Lm/W)	87.0
Correlated Color Temp (K)	3048
Color Rendering Index (CRI)	95 R9=64
Beam Angle	80.1
Spacing Criteria	1.16



Intensity Summary (Candle Power)

Angle	Mean CP
0	423
5	421
15	401
25	359
35	290
45	189
55	91
65	44
75	22
85	6
90	0

Cone of Light Tabulation

Mounted height (Inches)	Footcandles Beam Center	Diameter (Feet)
4	26.4	12.8
6	11.7	19.2
8	6.6	25.6
10	4.2	32.0
12	2.9	38.4
14	2.1	44.8
16	1.6	51.2

Zonal Lumen Summary

Zone	Lumens	% of Luminaire
0-30	314	40.9%
0-40	488	63.6%
0-60	699	91.1%
0-90	768	100%
90-180	0	0%
0-180	768	100%

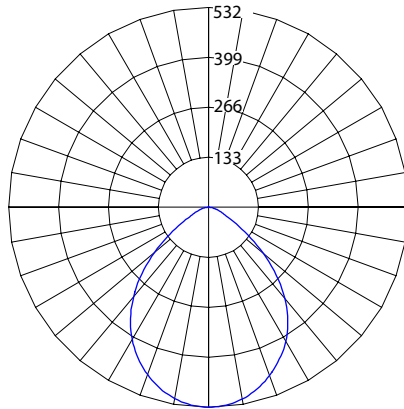
Data Multiplier applies to Lumens, Candle Power, Cone of Light, and Zonal Lumen Summary. See Performance Table for Lm, Watts and LPW values.

Data Multiplier

	30K	35K	40K	50K
Low	0.773	0.801	0.810	0.781
Med	0.893	0.924	0.935	0.902
High	1.000	1.035	1.047	1.010

CLR6 11W, 3000K

Input Voltage (VAC)	120-277
System Level Power (W)	10.9
Delivered Lumens (Lm)	1011
System Efficacy (Lm/W)	92.8
Correlated Color Temp (K)	3022
Color Rendering Index (CRI)	93 R9=61
Beam Angle	89.0
Spacing Criteria	1.16



Intensity Summary (Candle Power)

Angle	Mean CP
0	532
5	528
15	499
25	444
35	362
45	250
55	124
65	47
75	22
85	5
90	0

Cone of Light Tabulation

Mounted height (Inches)	Footcandles Beam Center	Diameter (Feet)
4	33.3	7.7
6	14.8	11.6
8	8.3	15.4
10	5.3	19.3
12	3.7	23.1
14	2.7	27.0
16	2.0	30.8

Zonal Lumen Summary

Zone	Lumens	% of Luminaire
0-30	395	39.1%
0-40	623	61.6%
0-60	932	92.2%
0-90	1011	100%
90-180	0	0%
0-180	1011	100%

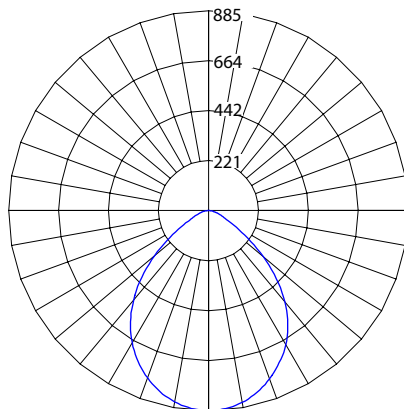
Data Multiplier applies to Lumens, Candle Power, Cone of Light, and Zonal Lumen Summary. See Performance Table for Lm, Watts and LPW values.

Data Multiplier

	30K	35K	40K	50K
Low	0.632	0.678	0.695	0.674
Med	0.789	0.848	0.869	0.843
High	1.000	1.073	1.101	1.067

CLR8 22W, 3000K

Input Voltage (VAC)	120-277
System Level Power (W)	21.3
Delivered Lumens (Lm)	2154
System Efficacy (Lm/W)	101.3
Correlated Color Temp (K)	3065
Color Rendering Index (CRI)	93 R9=62
Beam Angle	91.3
Spacing Criteria	1.18



Intensity Summary (Candle Power)

Angle	Mean CP
0	884
5	877
15	829
25	742
35	623
45	472
55	290
65	110
75	32
85	8
90	0

Cone of Light Tabulation

Mounted height (Inches)	Footcandles Beam Center	Diameter (Feet)
4	55.3	8.5
6	24.5	12.8
8	13.8	17.1
10	8.8	21.4
12	6.1	25.6
14	4.5	29.9
16	3.4	34.2

Zonal Lumen Summary

Zone	Lumens	% of Luminaire
0-30	659	36%
0-40	1049	57.2%
0-60	1674	91.3%
0-90	1833	100%
90-180	0	0%
0-180	1833	100%

Data Multiplier applies to Lumens, Candle Power, Cone of Light, and Zonal Lumen Summary. See Performance Table for Lm, Watts and LPW values.

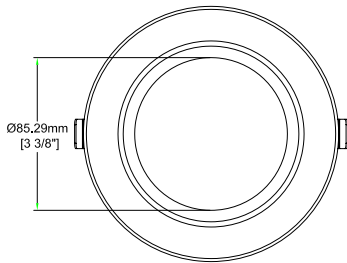
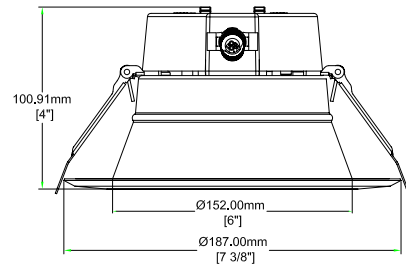
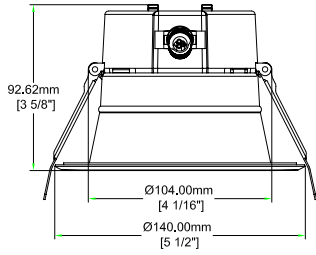
Data Multiplier

	30K	35K	40K	50K
Low	0.476	0.488	0.489	0.481
Med	0.714	0.733	0.733	0.721
High	1.000	1.025	1.027	1.009

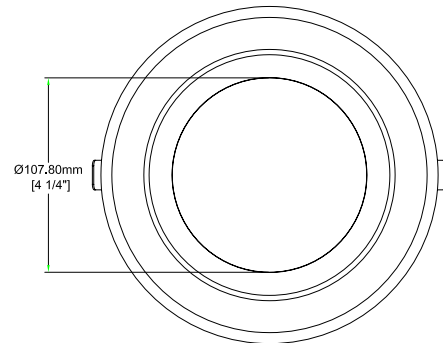
CLRv3 Select

Commercial Recessed LED Downlight

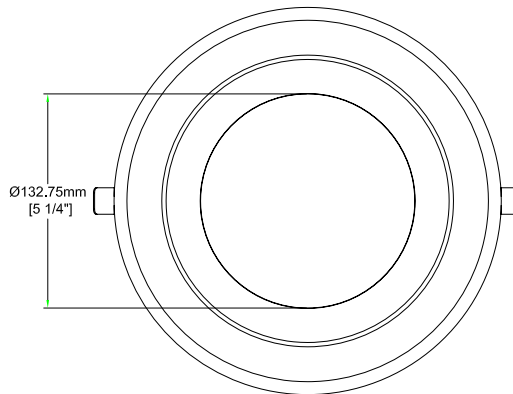
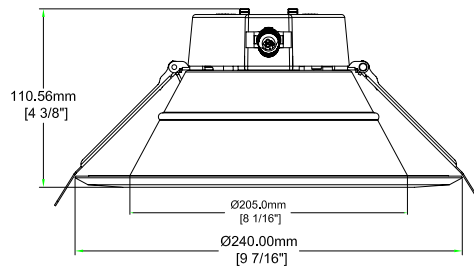
Dimensions



CLR4v3



CLR6v3



CLR8v3

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

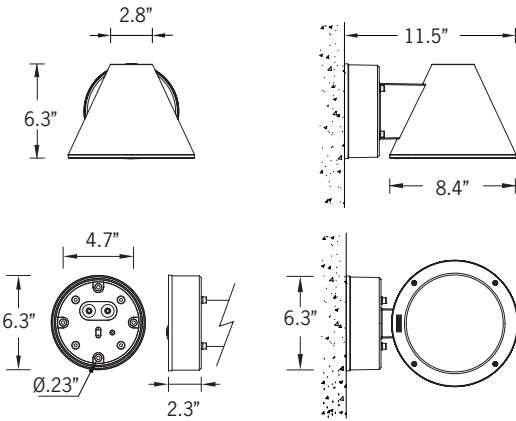
NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

UCI-30131

Cinati Type I, II, III & IV Surface



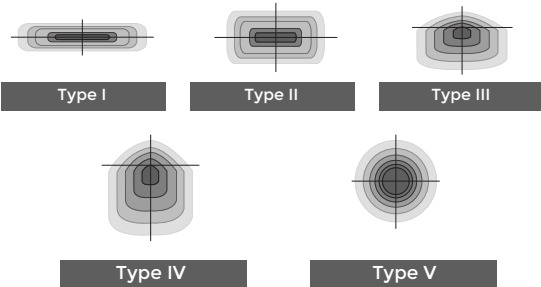
18w LED 2309 Lumens | 30w LED 3848 Lumens
21w COB 1984 Lumens
IP65 • Suitable For Wet Locations
IK08 • Impact Resistant (Vandal Resistant)
Weight 8 lbs



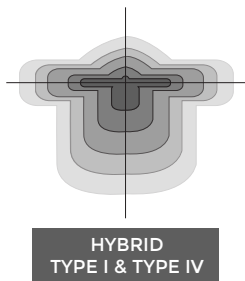
Mounting Detail



Ligman's micro Variable Optical System provides the ability to interchange, mix & rotate optics to provide specific light distributions for optimized spacing and uniformity.



The variable optic system allows for the designer to create hybrid distributions for precise lighting requirements.



Construction

Aluminum.
Less than 0.1% copper content - Marine Grade 6060 extruded & LM6 Aluminum High Pressure die casting provides excellent mechanical strength, clean detailed product lines and excellent heat dissipation.

Pre paint
8 step degrease and phosphate process that includes deoxidizing and etching as well as a zinc and nickel phosphate process before product painting.

Memory Retentive -Silicon Gasket
Provided with special injection molded "fit for purpose" long life high temperature memory retentive silicon gaskets. Maintains the gaskets exact profile and seal over years of use and compression.

Thermal management
LM6 Aluminum is used for its excellent mechanical strength and thermal dissipation properties in low and high ambient temperatures. The superior thermal heat sink design by Ligman used in conjunction with the driver, controls thermals below critical temperature range to ensure maximum luminous flux output, as well as providing long LED service life and ensuring less than 10% lumen depreciation at 50,000 hours.

Surge Suppression
Standard 10kv surge suppressor provided with all fixtures.

BUG Rating
B2 - U0 - G0

Finishing.
All Ligman products go through an extensive finishing process that includes fettling to improve paint adherence.

Paint
UV Stabilized 4.9Mil thick powder coat paint and baked at 200 Deg C. This process ensures that Ligman products can withstand harsh environments. Rated for use in natatoriums.

Inspired by Nature Finishes
The Inspired by nature Finishing is a unique system of decorative powder coating. Our metal decoration process can easily transform the appearance of metal or aluminum product into a wood grain finish.

This patented technology enables the simulation of wood grain, and even marble or granite finish through the use of decorative powder coating.

The wood grain finish is so realistic that it's almost undistinguishable from real wood, even from a close visual inspection. The system of coating permeates the entire thickness of the coat and as a result, the coating cannot be removed by normal rubbing, chipping, or scratching.

The Coating Process
After pre-treatment the prepared parts are powder coated with a specially formulated polyurethane powder. This powder provides protection against wear, abrasion, impact and corrosion and acts as the relief base color for the finalized metal decoration.

The component is then wrapped with a sheet of non-porous film with the selected decoration pattern printed on it using special high temperature inks.

This printed film transfer is vacuum-sealed to the surface for a complete thermo print and then transferred into a customized oven. The oven transforms the ink into different forms within the paint layer before it becomes solid. Finally, the film is removed, and a vivid timber look on aluminum remains.

Wood grain coating can create beautiful wood-looking products of any sort. There are over 300 combinations of designs currently in use. Wood grains can be made with different colors, designs, etc.

Our powder coatings are certified for indoor and outdoor applications and are backed by a comprehensive warranty. These coatings rise to the highest conceivable standard of performance excellence and design innovation.

- Added Benefits**
- Resistance to salt-acid room, accelerated aging
 - Boiling water, lime and condensed water resistant
 - Anti-Graffiti, Anti-Slip, Anti-Microbial, Anti-Scratch
 - Super durable (UV resistant)
 - TGIC free (non-toxic)

Hardware
Provided Hardware is Marine grade 316 Stainless steel.

Anti Seize Screw Holes
Tapped holes are infused with a special anti seize compound designed to prevent seizure of threaded connections, due to electrolysis from heat, corrosive atmospheres and moisture.

Crystal Clear Low Iron Glass Lens
Provided with tempered, impact resistant crystal clear low iron glass ensuring no green glass tinge.

Optics & LED
Precise optic design provides exceptional light control and precise distribution of light.
LED CRI > 80

Lumen - Maintenance Life
L80 /B10 at 50,000 hours (This means that at least 90% of the LED still achieve 80% of their original flux)

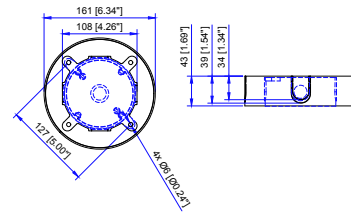
Cone-shaped wall-mounted downlight fixtures. Simple clean form hiding multiple high-performance glare free optic choices.

A cone shaped wall wash luminaire. Suitable for outdoor up, or down light applications. This luminaire is provided with precision optics and high powered LEDs, to provide narrow, medium, wide and very wide distributions. The vandal resistant tempered glass is available in clear or lightly frosted versions.

This product is suitable for commercial, as well as residential applications and with the selection of optics available can provide an excellent lighting solution. Integral electronic driver. Fixture is mounted over a 3" octagonal junction box.

To meet International Dark Sky criteria, 3000k or warmer LEDs must be selected and luminaire fix mounted (+/- 15° allowable to permit leveling).

Additional Options (Consult Factory For Pricing)



SCBT Surface Conduit Box Trim

NOTE: This trim covers a shallow single gang, surface mount junction box [Provided by contractor]
 Example: Hubbell - 5322-0 - 1-Gang Weatherproof Box, Five 1/2" in. Threaded Outlets - or - 5332-0 - 1-Gang Weatherproof Box, Five 3/4 in. Threaded Outlets



UCI-30131

Cinati Type I, II, III & IV Surface



PROJECT		DATE	
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QUANTITY		TYPE		NOTE	
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ORDERING EXAMPLE || UCI - 30131 - 18w - T2 - W30 - 02 - 120/277v - Options

UCI-30131					
LAMP	BEAM	LED COLOR	FINISH COLOR	VOLTAGE	
18w LED 2309 Lumens 30w LED 3848 Lumens 21w COB 1984 Lumens	For 18w and 30w LED Only T1 - Type I Distribution T2 - Type II Distribution T3 - Type III Distribution T4 - Type IV Distribution For 21w COB Only N - Narrow 8° M - Medium 16° W - Wide 36° VW - Very Wide 70°	W27 - 2700K W30 - 3000K W35 - 3500K W40 - 4000K	01 - BLACK RAL 9011 02 - DARK GREY RAL 7043 03 - WHITE RAL 9003 04 - METALLIC SILVER RAL 9006 05 - MATTE SILVER RAL 9006 06 - LIGMAN BRONZE 07 - CUSTOM RAL	120/277v Other - Specify	

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ADDITIONAL OPTIONS

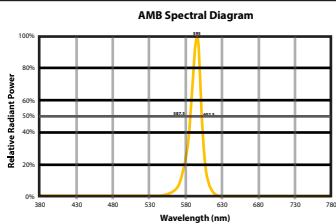
- NAT - Natatorium Rated
- DIM - 0-10v Dimming
- SCBT - Surface Conduit Box Trim
- F - Frosted Lens
- AMB - Turtle Friendly Amber LED

INSPIRED BY NATURE FINISHES

- SW01 - OAK FINISH
- SW02 - WALNUT FINISH
- SW03 - PINE FINISH
- DF - DOUGLAS FIR FINISH
- CW - CHERRY WOOD FINISH
- NW - NATIONAL WALNUT FINISH
- SU01 - CONCRETE FINISH
- SU02 - SOFTSCAPE FINISH
- SU03 - STONE FINISH
- SU04 - CORTEN FINISH

THERE IS AN ADDITIONAL COST FOR THESE FINISHES

CITY OF FLAGSTAFF & TURTLE FRIENDLY COMPLIANT



Narrow-Spectrum Amber LEDs
 Peak wavelength between 585 & 595 nanometers and a full width of 50% power no greater than 15 nanometers.

More Custom Finishes Available Upon Request

Consult factory for pricing and lead times

 Oak	 Cherry	 Beech	 Carbon
 Walnut	 Chestnut	 Bamboo	 Galvanized
 Pine	 Mahogany	 Birch	 Steel



Cinati Product Family



Cinati 1

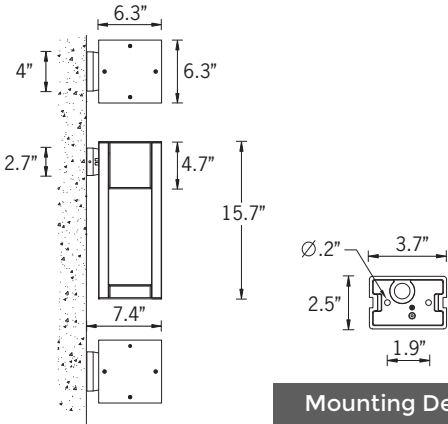
- UCI-30131-21w-1984lm
- UCI-30131-18w-2309lm
- UCI-30131-30w-3848lm

UVA-30001

Vancouver 24 Surface



8w COB 331 Lumens
 IP65 • Suitable For Wet Locations
 IK08 • Impact Resistant
 Weight 13.6 lbs



Mounting Detail

Construction

Aluminum

Less than 0.1% copper content – Marine Grade 6060 extruded & LM6 Aluminum High Pressure die casting provides excellent mechanical strength , clean detailed product lines and excellent heat dissipation.

Pre paint

8 step degrease and phosphate process that includes deoxidizing and etching as well as a zinc and nickel phosphate process before product painting.

Memory Retentive -Silicon Gasket

Provided with special injection molded "fit for purpose" long life high temperature memory retentive silicon gaskets. Maintains the gaskets exact profile and seal over years of use and compression.

Thermal management

LM6 Aluminum is used for its excellent mechanical strength and thermal dissipation properties in low and high ambient temperatures. The superior thermal heat sink design by Ligman used in conjunction with the driver, controls thermals below critical temperature range to ensure maximum luminous flux output, as well as providing long LED service life and ensuring less than 10% lumen depreciation at 50,000 hours.

Surge Suppression

Standard 10kv surge suppressor provided with all fixtures.

BUG Rating

Contact Factory

Finishing

All Ligman products go through an extensive finishing process that includes fettling to improve paint adherence.

Paint

UV Stabilized 4.9Mil thick powder coat paint and baked at 200 Deg C. This process ensures that Ligman products can withstand harsh environments. Rated for use in natatoriums.

Inspired by Nature Finishes

The Inspired by nature Finishing is a unique system of decorative powder coating. Our metal decoration process can easily transform the appearance of metal or aluminum product into a wood grain finish.

This patented technology enables the simulation of wood grain, and even marble or granite finish through the use of decorative powder coating.

The wood grain finish is so realistic that it's almost undistinguishable from real wood, even from a close visual inspection. The system of coating permeates the entire thickness of the coat and as a result, the coating cannot be removed by normal rubbing, chipping, or scratching.

The Coating Process

After pre-treatment the prepared parts are powder coated with a specially formulated polyurethane powder. This powder provides protection against wear, abrasion, impact and corrosion and acts as the relief base color for the finalized metal decoration.

The component is then wrapped with a sheet of non-porous film with the selected decoration pattern printed on it using special high temperature inks.

This printed film transfer is vacuum-sealed to the surface for a complete thermo print and then transferred into a customized oven. The oven transforms the ink into different forms within the paint layer before it becomes solid. Finally, the film is removed, and a vivid timber look on aluminum remains.

Wood grain coating can create beautiful wood-looking products of any sort. There are over 300 combinations of designs currently in use. Wood grains can be made with different colors, designs, etc.

Our powder coatings are certified for indoor and outdoor applications and are backed by a comprehensive warranty. These coatings rise to the highest conceivable standard of performance excellence and design innovation.

Added Benefits

- Resistance to salt-acid room, accelerated aging
- Boiling water, lime and condensed water resistant
- Anti-Graffiti, Anti-Slip, Anti-Microbial, Anti-Scratch
- Super durable (UV resistant)
- TGIC free (non-toxic)

Hardware

Provided Hardware is Marine grade 316 Stainless steel.

Anti Seize Screw Holes

Tapped holes are infused with a special anti seize compound designed to prevent seizure of threaded connections, due to electrolysis from heat, corrosive atmospheres and moisture.

Crystal Clear Low Iron Glass Lens

Provided with tempered, impact resistant crystal clear low iron glass ensuring no green glass tinge.

Optics & LED

Precise optic design provides exceptional light control and precise distribution of light.
 LED CRI > 80

Lumen - Maintenance Life

L80 /B10 at 50,000 hours (This means that at least 90% of the LED still achieve 80% of their original flux)

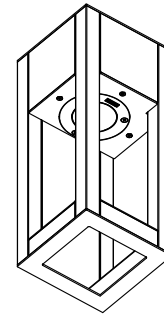
Contemporary urban lighting furniture.
Open-sided, three lattice pattern options or your bespoke design.

A stylish Dark Sky Compliant square high performance wall mounted luminaire with downward light distribution using LED lamps. This light column offers optimal visual comfort through glare control by utilizing a controlled optics designed by Ligman. These luminaires have a square design providing a unique wide light distribution, offering an architecturally appealing shadow pattern on the mounted surface. The internal sides of the supporting pillars are accented by light from the LED.

Color temperature 2700K, 3000K, 3500K and 4000K. The minimalistic shape provides distinctive lighting effects by night and decorative urban effect during the day. Suitable for pedestrian areas, precincts, building surrounds, shopping centers, squares and parks. The Vancouver comes standard with a unique waterproof internal driver housing compartment that is situated at the top of the pole to stop water and dust from entering the electrical components. This fixture is supplied completely wired with powercord and waterproof gland from the driver enclosure to the base of the column to ensure quick trouble-free installation.

Custom heights are available, please specify in options. Designed to complement the Vancouver Light Column and bollard.

Additional Options (Consult Factory For Pricing)



OB
 Open Bottom



UVA-30001

Vancouver 24 Surface

PROJECT		DATE	
----------------	--	-------------	--

QUANTITY		TYPE		NOTE	
-----------------	--	-------------	--	-------------	--

ORDERING EXAMPLE || UVA - 30001 - 8w - W30 - 02 - 120/277v - Options

UVA-30001				
LAMP	LED COLOR	FINISH COLOR	VOLTAGE	
8w COB 331 Lumens	W27 - 2700K W30 - 3000K W35 - 3500K W40 - 4000K	01 - BLACK RAL 9011 02 - DARK GREY RAL 7043 03 - WHITE RAL 9003 04 - METALLIC SILVER RAL 9006 05 - MATTE SILVER RAL 9006 06 - LIGMAN BRONZE 07 - CUSTOM RAL	120/277v Other - Specify	

--	--	--

ADDITIONAL OPTIONS

- NAT - Natatorium Rated
- F - Frosted Lens
- OB - Open Bottom
- HGT - Custom Height [Specify]

INSPIRED BY NATURE FINISHES

- SW01 - OAK FINISH
- SW02 - WALNUT FINISH
- SW03 - PINE FINISH
- DF - DOUGLAS FIR FINISH
- CW - CHERRY WOOD FINISH
- NW - NATIONAL WALNUT FINISH
- SU01 - CONCRETE FINISH
- SU02 - SOFTSCAPE FINISH
- SU03 - STONE FINISH
- SU04 - CORTEN FINISH

THERE IS AN ADDITIONAL COST FOR THESE FINISHES

More Custom Finishes Available Upon Request

Consult factory for pricing and lead times

Oak	Cherry	Beech	Carbon
Walnut	Chestnut	Bamboo	Galvanized
Pine	Mahogany	Birch	Steel



Vancouver Product Family

Vancouver 1

- UVA-20001-40w-2969lm [9.4"x9.4"-14.7']

Vancouver 2

- UVA-20011-20w-1414lm [6.3"x6.3"-9.8']

Vancouver 3

- UVA-10001-21w-1270lm [9.4"x9.4"-39.3']

Vancouver 4

- UVA-10011-15w-837lm [6.3"x6.3"-39.3']

Vancouver 5

- UVA-20021-39/21w-1336/1673lm [9.4"x9.4"-13.3']
- UVA-20022-39/2x21w-1336/2x1673lm [9.4"x9.4"-14.5']
- UVA-20023-39/3x21w-1336/3x1673lm [9.4"x9.4"-15.7']

Vancouver 6

- UVA-20031-39/21w-1167/1673lm [9.4"x9.4"-13.3']
- UVA-20032-39/2x21w-1167/2x1673lm [9.4"x9.4"-14.5']
- UVA-20033-39/3x21w-1167/3x1673lm [9.4"x9.4"-15.7']

Vancouver 7

- UVA-20041-39/21w-1670/1673lm [9.4"x9.4"-13.3']
- UVA-20042-39/2x21w-1670/2x1673lm [9.4"x9.4"-14.5']
- UVA-20043-39/3x21w-1670/3x1673lm [9.4"x9.4"-15.7']

Vancouver 8

- UVA-20051-40w-1336lm [9.4"x9.4"-12.1']

Vancouver 9

- UVA-20061-40w-1167lm [9.4"x9.4"-12.1']

Vancouver 10

- UVA-20071-40w-1670lm [9.4"x9.4"-12.1']

Vancouver 11

- UVA-10021-21w-570lm [9.4"x9.4"-39.3']

Vancouver 12

- UVA-10031-21w-490lm [9.4"x9.4"-39.3']

Vancouver 13

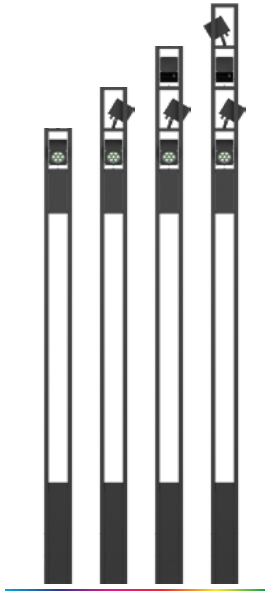
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Vancouver 14

- UVA-70001-8w-331lm [6.3"x6.3"-15.7']

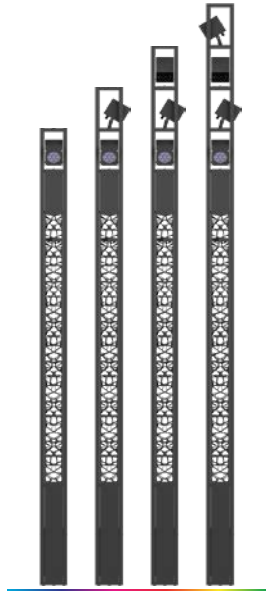
Vancouver 15

- UVA-70011-21w-815lm [9.4"x9.4"-15.7']



Vancouver 16

- UVA-20111-33w-1429lm [9.4"x9.4"-13.3']
- UVA-20112-66w-4287lm [9.4"x9.4"-14.5']
- UVA-20113-99w-5716lm [9.4"x9.4"-15.7']
- UVA-20114-132w-7145lm [9.4"x9.4"-17']



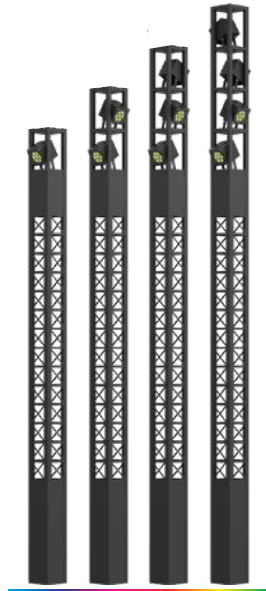
Vancouver 17

- UVA-20121-33w-2858 lm [9.4"x9.4"-13.3']
- UVA-20122-66w-4287lm [9.4"x9.4"-14.5']
- UVA-20123-99w-5716lm [9.4"x9.4"-15.7']
- UVA-20124-132w-7145lm [9.4"x9.4"-17']



Vancouver 18

- UVA-20131-33w-2858lm [9.4"x9.4"-13.3']
- UVA-20132-66w-4287lm [9.4"x9.4"-14.5']
- UVA-20133-99w-5716lm [9.4"x9.4"-15.7']
- UVA-20134-132w-7145lm [9.4"x9.4"-17']



Vancouver 19

- UVA-20141-33w-2858lm [9.4"x9.4"-13.3']
- UVA-20142-66w-4287lm [9.4"x9.4"-14.5']
- UVA-20143-99w-5716lm [9.4"x9.4"-15.7']
- UVA-20144-132w-7145lm [9.4"x9.4"-17']



Vancouver 20

- UVA-20151-33w-1429lm [9.4"x9.4"-12.1']



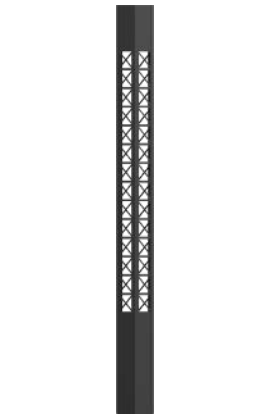
Vancouver 21

- UVA-20161-33w-1429lm [9.4"x9.4"-12.1']



Vancouver 22

- UVA-20171-33w-1429lm [9.4"x9.4"-12.1']



Vancouver 23

- UVA-20181-33w-1429lm [9.4"x9.4"-12.1']



Vancouver 24

- UVA-30001-8w-331lm [6.3"x6.3"-15.7']



Vancouver 25

- UVA-30011-21w-570lm [6.3"x6.3"-23.6']



Vancouver 26

- UVA-30012-21w-490lm [6.3"x6.3"-23.6']



Vancouver 27

- UVA-30013-21w-740lm [6.3"x6.3"-23.6']



Vancouver 28

- UVA-30021-39w-1336lm [9.4"x9.4"-39.3']
- UVA-30031-33w RGBW-429lm [9.4"x9.4"-39.3']



Vancouver 29

- UVA-30022-39w-1167lm [9.4"x9.4"-39.3']
- UVA-30032-33w RGBW-1158lm [9.4"x9.4"-39.3']



Vancouver 30

- UVA-30023-39w-1670lm [9.4"x9.4"-39.3']
- UVA-30033-33w RGBW-439lm [9.4"x9.4"-39.3']



Vancouver 31

• UVA-10101-7w-200lm [4.7" x 4.7" - 23.6"]



Vancouver 33

• UVA-10051-15w-1083lm [6.3" x 6.3" - 39.3"]



Vancouver 34

• UVA-10061-21w-1571lm [9.4" x 9.4" - 39.3"]



Vancouver 35

• UVA-10071-21w-1571lm [9.4" x 9.4" - 39.3"]



Vancouver 36

• UVA-10072-21w-1571lm [9.4" x 9.4" - 39.3"]



Vancouver 37

• UVA-10073-21w-1571lm [9.4" x 9.4" - 39.3"]



Vancouver 38

• UVA-10141-8w-95lm [4.7" x 4.7" - 23.6"]



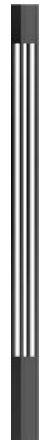
Vancouver 39

• UVA-10151-15w-418lm [6.3" x 6.3" - 39.3"]



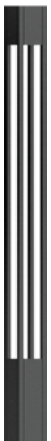
Vancouver 40

• UVA-10161-21w-635lm [9.4" x 9.4" - 39.3"]



Vancouver 41

• UVA-20191-20w-1326lm [6.3" x 6.3" - 9.8"]



Vancouver 42

• UVA-20201-40w-2969 lm [9.4" x 9.4" - 14.7"]



Vancouver 43

• UVA-20211-39/21w-2781/1688lm [9.4"x9.4"-13.3"]



Vancouver 44

• UVA-20212-39/2x21w-2781/2x1688lm [9.4"x9.4"-14.5"]



Vancouver 45

• UVA-20213-39/3x21w-2781/3x1688lm [9.4"x9.4"-15.7"]



Vancouver 46

• UVA-20221-39/21w-4469/1688lm [9.4"x9.4"-13.3"]



Vancouver 47

• UVA-20221-39/2x21w-4469/2x1688lm [9.4"x9.4"-14.5']



Vancouver 48

• UVA-20223-39/3x21w-4469/3x1688lm [9.4"x9.4"-15.7']



Vancouver 49

• UVA-20231-39/21w-2781/1688lm [9.4"x9.4"-13.3']



Vancouver 50

• UVA-20232-39/2x21w-2781/2x1688lm [9.4"x9.4"-14.5']



Vancouver 51

• UVA-20233-39/2x21w-2781/2x1688lm [9.4"x9.4"-15.7']



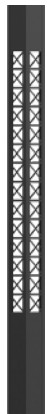
Vancouver 52

• UVA-20241-40w-2781lm [9.4"x9.4"-12']



Vancouver 53

• UVA-20242-40w-2781lm [9.4"x9.4"-12']



Vancouver 54

• UVA-20243-40w-2781lm [9.4"x9.4"-12']



Vancouver 55

• UVA-20251-21w-710lm [6.3"x6.3"-9.8']



Vancouver 56

• UVA-20261-40w-1485lm [9.4"x9.4"-14.7']



Vancouver 60

• UVA-20281-76w-4140lm [9.4"x9.4"-12']



Vancouver 61

• UVA-20282-76w-4140lm [9.4"x9.4"-12']



Vancouver 62

• UVA-20283-76w-4140lm [9.4"x9.4"-12']



Vancouver 63

• UVA-70021-13w-437lm [6.3"x6.3"-15.7']



Vancouver 64

• UVA-70031-20w-1362lm [9.4"x9.4"-15.7']



Vancouver 65

• UVA-70041-8w-165lm [6.3"x6.3"-15.7"]



Vancouver 66

• UVA-70051-21w-410lm [9.4"x9.4"-15.7"]



Vancouver 67

• UVA-30041-20w-1326lm [6.3"x6.3"-23.6"]



Vancouver 68

• UVA-30042-20w-1326lm [6.3"x6.3"-23.6"]



Vancouver 69

• UVA-30043-20w-1326lm [6.3"x6.3"-23.6"]



Vancouver 70

• UVA-30051-40w-2781lm [9.4"x9.4"-39.3"]



Vancouver 71

• UVA-30052-40w-2781lm [9.4"x9.4"-39.3"]




Vancouver 72

• UVA-30053-40w-2781lm [9.4"x9.4"-39.3"]

MEMORANDUM

TO: 361 Hanover Steam Factory, LLC
c/o Mr. Shayne Forsley
Hampshire Development Corp.
41 Industrial Drive #20
Exeter, NH 03833

FROM: Mr. Jeffrey S. Dirk, P.E.*, PTOE, FITE 
Managing Partner *and*
Mr. Makenlove Marc
Transportation Engineer
Vanasse & Associates, Inc.
35 New England Business Center Drive
Suite 140
Andover, MA 01810-1066
(978) 269-6830
jdirk@rdva.com

**Professional Engineer in CT, MA, ME, NH, RI and VA*

DATE: March 7, 2025

RE: 10068

SUBJECT: Traffic Impact Study
Kearsarge Mill Residential Development – 361 Hanover Street
Portsmouth, New Hampshire

Vanasse & Associates, Inc. (VAI) has conducted a Traffic Impact Study (TIS) in order to determine the potential impacts on the transportation infrastructure associated with the proposed redevelopment of the Kearsarge Mill located at 361 Hanover Street in Portsmouth, New Hampshire, to accommodate a multifamily residential development (hereafter referred to as the “Project”). This study has been completed in accordance with the New Hampshire Department of Transportation (NHDOT) guidelines for the preparation of a TIS as defined in the Driveway Permit Policy and evaluates the following specific areas as they relate to the Project: i) access requirements; ii) potential off-site improvements; and iii) safety considerations; and identifies and analyzes existing traffic conditions and future traffic conditions, both with and without the Project, along Hanover Street and Bridge Street. Based on this assessment, we have concluded the following with respect to the Project:

1. Using trip-generation statistics published by the Institute of Transportation Engineer (ITE),¹ the Project is expected to generate approximately 384 vehicle trips on an average weekday (two-way, 24-hour volume), with approximately 38 vehicle trips expected during the weekday morning peak-hour and 41 vehicle trips expected during the weekday evening peak-hour;
2. The Project will not have a significant impact (increase) on motorist delays or vehicle queuing over Existing or anticipated future conditions without the Project (No-Build conditions), with no (0) changes in level of service (LOS) and all movements at the study area intersections shown to continue to operate at LOS B or better, where an LOS “D” or better is defined as “acceptable” operating conditions. Project-related impacts were generally defined as an increase in average motorist delay of up to 1.1 seconds that resulted in a corresponding increase in vehicle queuing of up to one (1) vehicle;

¹*Trip Generation*, 11th Edition; Institute of Transportation Engineers; Washington, DC; 2021.



3. Under 2025 Opening Year Build and 2035 Build conditions, all movements exiting the Project site driveway to Hanover Street were shown to operate at LOS A with negligible vehicle queuing. All movements along Hanover Street approaching the Project site driveway were shown to operate at LOS A, also with negligible vehicle queuing; and
4. Lines of sight at the intersection of the Project site driveway with Hanover Street were found to exceed the recommended minimum distance for the intersection to operate in a safe manner based on the appropriate speed.

In consideration of the above, we have concluded that the Project can be accommodated within the confines of the existing transportation infrastructure in a safe and efficient manner with implementation of the recommendations defined herein.

The following details our assessment of the Project.

PROJECT DESCRIPTION

The Project will entail the renovation of the Kearsarge Mill building located at 361 Hanover Street in Portsmouth, New Hampshire, and the construction of three (3) new multifamily residential buildings that will front along Hanover Street. When complete, up to 48 residential units will be provided and dispersed between four (4) buildings as follows: the existing four-story Kearsarge Mill building (Building “A”) will be renovated to accommodate up to 34 residential units; two new three story buildings (Buildings “B” and “C”) that will accommodate four (4) residential units and two (2) residential units, respectively; and a new three story building (Building “D”) that will accommodate eight (8) residential units. The Project site encompasses approximately 1.0± acres of land bounded by Foundry Place to the north; Hanover Street to the south; residential properties to the east; and Rock Street and the Rock Street park to the west. The Project site is currently improved with the Kearsarge Mill building and supporting parking and appurtenances. Figure 1 depicts the Project site location in relation to the existing roadway network.

Access to the Project site will be provided by way of a new driveway that will intersect the south side of Hanover Street approximately 60 feet east of Rock Street. On-site parking will be provided for 71 vehicles, consisting of both surface parking and covered parking beneath the residential units that are to be located in the Kearsarge Mill building.

STUDY METHODOLOGY

This study was prepared in consultation with the City of Portsmouth and NHDOT; was performed in accordance with the NHDOT guidelines for the preparation of TISs as defined in the Driveway Permit Policy and the standards of the Traffic Engineering and Transportation Planning Professions for the preparation of such reports; and was conducted in three distinct stages.

The first stage of the study involved an assessment of existing conditions in the study area and included an inventory of roadway geometrics, pedestrian and bicycle facilities, and public transportation services; observations of traffic flow; and the collection of daily and peak-period traffic counts.

In the second stage of the study, future conditions on the transportation system were projected and analyzed. Specific travel demand forecasts for the Project were assessed along with future demands on the transportation system that are expected due to growth independent of the Project. In accordance with NHDOT guidelines for the preparation of TISs, four future conditions were evaluated: 1) 2025 No-Build



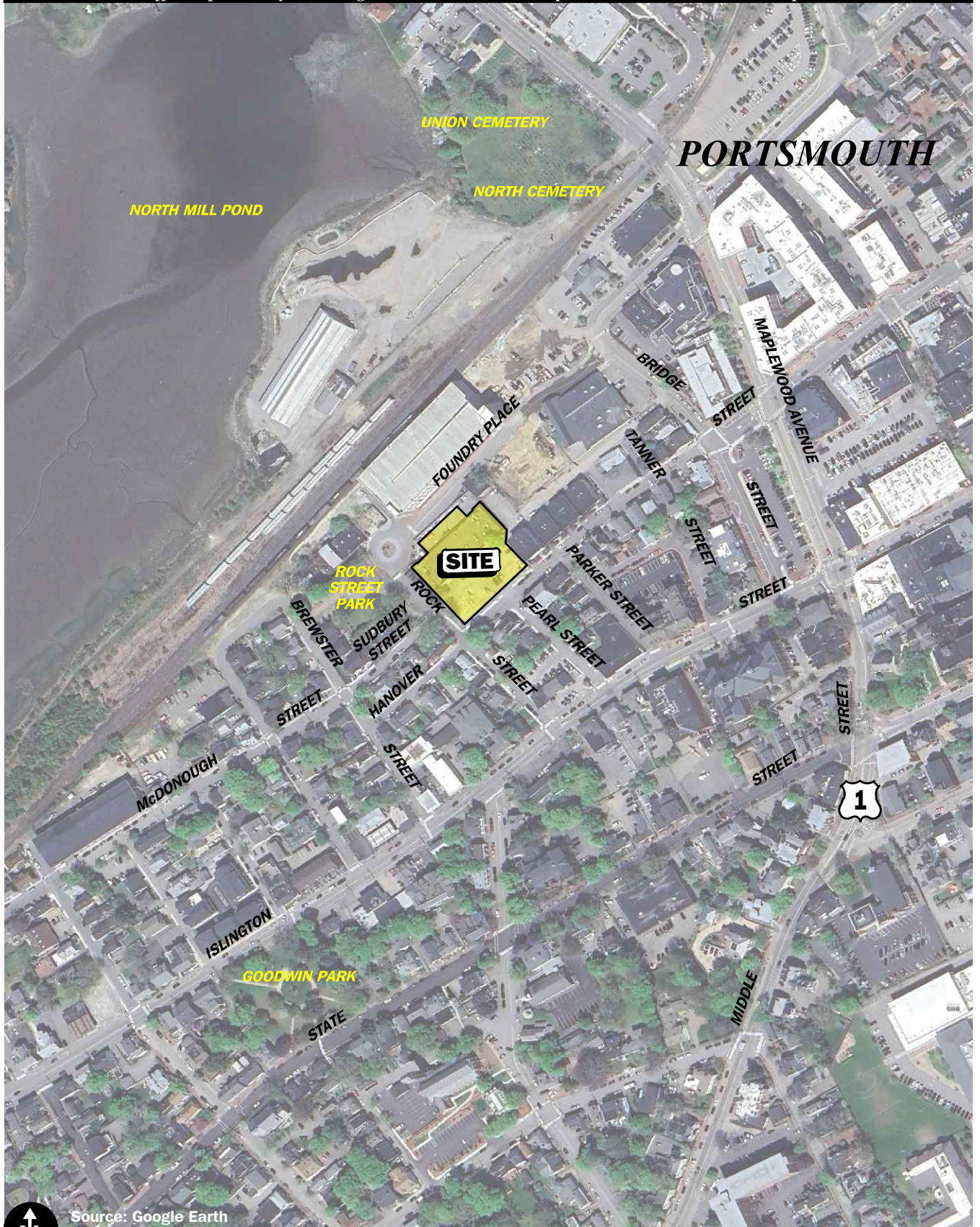


Figure 1
Site Location Map

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conditions *without* the Project; 2) 2025 Opening-Year Build conditions *with* the Project; 3) 2035 No-Build conditions *without* the Project; and 4) 2035 Build conditions (ten-year projection from opening-year) *with* the Project. The analyses conducted in stage two of the study identify existing or projected future roadway capacity and traffic safety issues.

The third stage of the study presents and evaluates measures to address roadway and intersection capacity issues and safety concerns, if any, identified in stages one and two of the study.

EXISTING CONDITIONS

A comprehensive field inventory of existing conditions within the study area was conducted in August 2024. The field investigation consisted of an inventory of existing roadway geometrics; pedestrian and bicycle facilities; public transportation services; traffic volumes; and operating characteristics; as well as posted speed limits and land use information within the study area. The study area that was assessed for the Project consisted of Hanover Street, Rock Street, Pearl Street, Bridge Street, and Foundry Place, and the following intersections: Hanover Street at Rock Street; Hanover Street at Pearl Street; Hanover Street at Bridge Street; and Bridge Street at Foundry Place. The following describes the study area roadways and intersections.

Roadways

Hanover Street

Hanover Street is a Tier 5, Class 5, local roadway that is under City jurisdiction and traverses the study area in a general west-east direction, conveying traffic in a one-way eastbound direction between Pearl Street and Bridge Street and one-way westbound between Rock Street and Brewster Street, with two-way traffic between Pearl Street and Rock Street. The one-way roadway segments vary from 30 feet in width with one-street parking along both sides to 18-feet with on-street parking along one side. The two-way segment is approximately 27-feet in width with on-street parking along one side. A posted speed limit is not provided and, as such, the statutory speed limit pursuant to RSA 265:60 is 30 miles per hour (mph) in a residential district.² Sidewalks are provided along both sides of the roadway within the study area. Illumination is provided by way of streetlights mounted on wood poles. Land use along Hanover Street in the vicinity of the Project site consists of residential and commercial properties.

Rock Street

Rock Street is a Tier 5, Class 5, local roadway under City jurisdiction that traverses the study area in a general northwest-southeast direction, conveying one-way northbound traffic between Islington Street and Hanover Street and two-way traffic between Hanover Street and Sudbury Street. The one-way roadway segment is approximately 28-feet in width with on-street parking along one side, with the two-way segment varying from 16 to 20-feet in width. A posted speed limit is not provided and, as such, the statutory speed limit pursuant to RSA 265:60 is 30 mph in a residential district. Sidewalks are provided along both sides of the roadway. Illumination is provided by way of streetlights mounted on wood poles. Land use along Rock Street in the vicinity of the Project site consists of residential and commercial properties and the Rock Street Park.

²RSA 265:60 defines the “reasonable and prudent standard” as follows: “No person shall drive a vehicle on a way at a speed greater than is reasonable and prudent under the conditions and having regard to the actual and potential hazards then existing. In every event speed shall be so controlled as may be necessary to avoid colliding with any person, vehicle, or other conveyance on or entering the way in compliance with the legal requirements and the duty of all persons to use due care.”



Pearl Street

Pearl Street is a Tier 5, Class 5, local roadway under City jurisdiction that traverses the study area in a general northwest-southeast direction and accommodates two-way travel between Islington Street and Hanover Street. Within the study area, Pearl Street provides an approximate 28-foot wide traveled-way with parking along one side and a faded double-yellow centerline approaching Hanover Street. A posted speed limit is not provided and, as such, the statutory speed limit pursuant to RSA 265:60 is 30 mph in a residential district. Sidewalks are provided along both sides of the roadway. Illumination is provided by way of streetlights mounted on wood poles. Land use along Pearl Street in the vicinity of the Project site consists of residential and commercial properties.

Bridge Street

Bridge Street is a Tier 5, Class 5, local roadway under City jurisdiction that traverses the study area in a general northwest-southeast direction and conveys two-way traffic between Islington Street and Maplewood Avenue. Within the study area, Bridge Street provides two 10- to 19-foot-wide travel lanes separated by a double-yellow centerline with no marked shoulders and on-street parking along one or both sides of the roadway where defined by pavement markings. A posted speed limit is not provided and, as such, the statutory speed limit pursuant to RSA 265:60 is 30 mph in a residential district. Sidewalks are provided along both sides of the road within the study area. Illumination is provided by way of streetlights mounted on wood poles, steel poles, and ornamental lighting fixtures. Land use along Bridge Street in the vicinity of the Project site consists of residential and commercial properties.

Foundry Place

Foundry Place is a Tier 5, Class 5, local roadway under City jurisdiction that traverses the study area in a general northeast-southwest direction and conveys two-way traffic between Bridge Street its terminus in a cul-de-sac approximately 600 feet southwest of Bridge Street. Within the study area, Foundry Place provides two 12-foot-wide travel lanes separated by a double-yellow centerline with no marked shoulders. A posted speed limit is not provided and, as such, the statutory speed limit pursuant to RSA 265:60 is 30 mph in a residential district. A sidewalk is provided along the north side of the roadway within the study area. Illumination is provided by ornamental lighting fixtures. Land use along Foundry Place in the vicinity of the Project site consists of residential and commercial properties, Rock Street Park and the Foundry Place garage. Direct access to the Project will not be provided from Foundry Place.

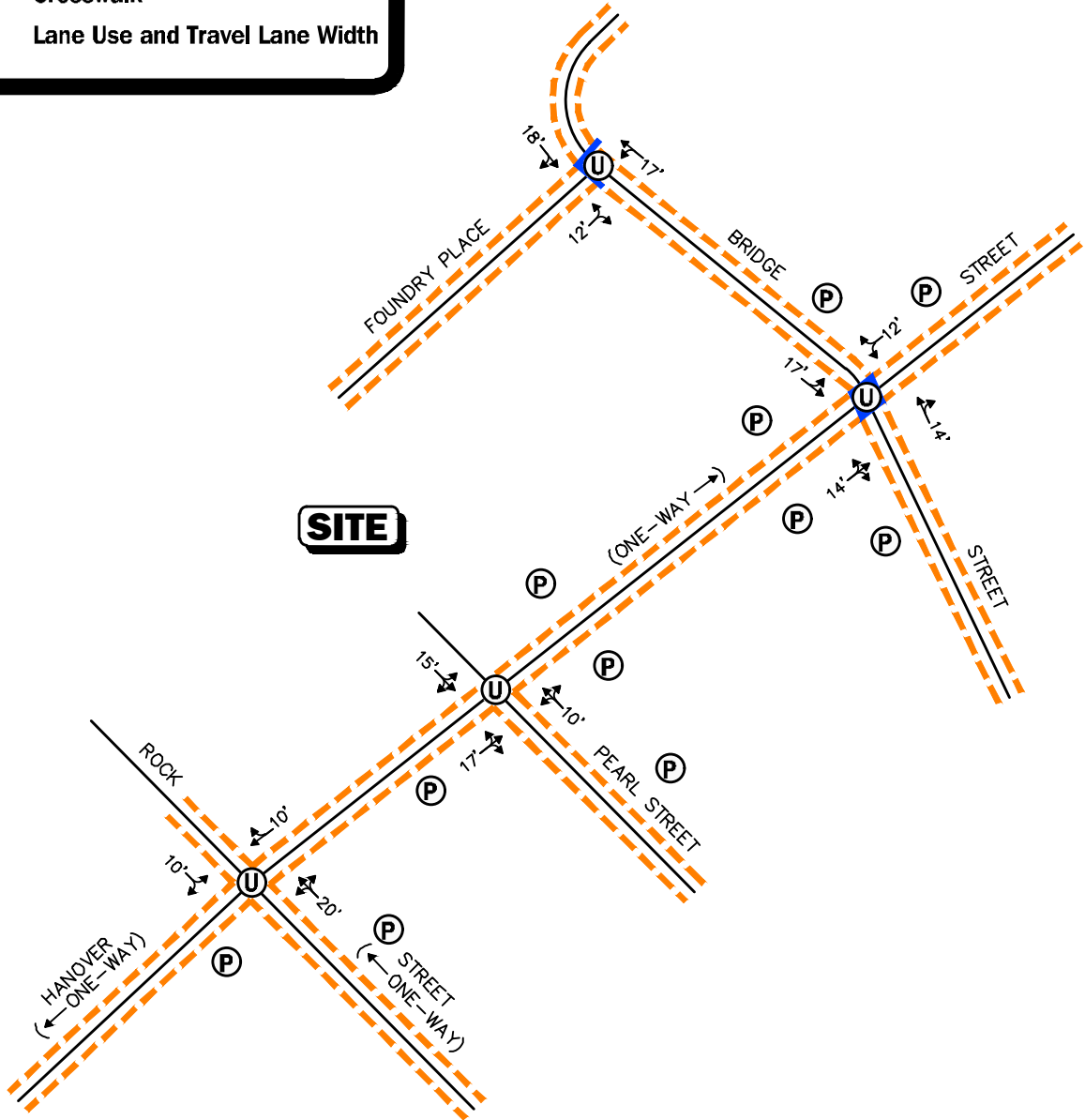
Intersections

Table 1 and Figure 2 summarize existing lane use, traffic control, and pedestrian and bicycle accommodations at the study area intersections as observed in August 2024.



Legend:

- Ⓢ Unsignalized Intersection
- Ⓟ Parking Lane
- Sidewalk
- Crosswalk
- xx' Lane Use and Travel Lane Width



Not To Scale



Figure 2

Existing Intersection Lane Use, Travel Lane Width, and Pedestrian Facilities

Table 1
STUDY AREA INTERSECTION DESCRIPTION

Intersection	Traffic Control Type^a	No. of Travel Lanes Provided	Shoulder Provided? (Yes/No/Width)	Pedestrian Accommodations? (Yes/No/Description)	Bicycle Accommodations? (Yes/No/Description)
Hanover St./ Rock St.	S	1 general-purpose lane provided on Hanover St. westbound and Rock St. southbound; Hanover St. west leg is one-way westbound; Rock St. south leg is one-way northbound on-street parking along one or both sides of Hanover St. and Rock St. south leg	No	Yes; sidewalks along both sides of the intersecting roadways	Yes; shared traveled-way ^b
Hanover St./ Pearl St	S	1 general-purpose lane provided on Hanover St. west leg and on Pearl St.; Hanover St. east leg is one-way eastbound; on-street parking along one or both sides of Hanover St. and Pearl St.	No	Yes; sidewalks along both sides of the intersecting roadways	Yes; shared traveled-way on Hanover St.
Hanover St./ Bridge St	S	1 general-purpose lane provided on Bridge St. and Hanover St. east leg; Hanover St. west leg is one-way eastbound; on-street parking along one or both sides of Hanover St. and Bridge St.	No	Yes; sidewalks along both sides of the intersecting roadways; crosswalks across all legs	Yes; shared traveled-way
Bridge St./ Foundry Pl.	S	1 general-purpose travel lane on all approaches	No	Yes; sidewalks along both sides of the intersecting roadways; crosswalks provided across Foundry Pl. and the Bridge St. north leg	Yes; shared traveled-way

^aS = stop signal control.

^bCombined shoulder and travel lane width equal to or exceeding 14 feet.

Existing Traffic Volumes

In order to determine existing traffic-volume demands and flow patterns within the study area, automatic traffic recorder (ATR) counts, turning movement counts (TMCs), and vehicle classification counts were completed in August 2024. The ATR counts were conducted on August 6th through 7th, 2024 (Tuesday through Wednesday, inclusive) on Hanover Street east of Rock Street in order to record weekday daily traffic conditions over an extended period, with weekday morning (7:00 to 9:00 AM) and evening (3:00 to 6:00 PM) peak-period TMCs performed at the study area intersections on Tuesday, August 6, 2024. These time periods were selected for analysis purposes as they are representative of the peak-traffic-volume hours for both the Project and the adjacent roadway network.



Traffic Volume Adjustments

In order to evaluate the potential for seasonal fluctuation of traffic volumes within the study area, 2019 peak-hour and average daily traffic count data were reviewed for NHDOT Continuous Count Station No. 02125001, which is located on Dover Point Road in Strafford, were reviewed. Based on a review of this data, it was determined that traffic volumes for the month of August are approximately 1.0 percent below peak-month (June) conditions. As such, the August traffic volumes were adjusted upward by 1.0 percent in order to be representative of peak-month conditions in accordance with NHDOT standards.

In order to account for the impact on the traffic volume and trip patterns resulting from the COVID-19 pandemic, traffic-volume data collected at NHDOT Continuous Count No. 02125001 was reviewed. Traffic-volume data for August 2024 was compared to data collected at the same location in August 2019. The following summarizes the comparison between the August 2024 and August 2019 traffic volumes:

- Average Daily Traffic Volumes: -0.3%
- Weekday Morning Peak-Hour Traffic Volumes: -3.0%
- Weekday Evening Peak-Hour Traffic Volumes: +2.4%

As such, the average weekday traffic volumes were adjusted upward by 0.3 percent (multiplied by 1.003) and the weekday morning peak-hour traffic volumes were adjusted upward by 3.0 percent (multiplied by 1.03); no adjustment was required to the weekday evening peak-hour traffic volumes as the August 2024 traffic volumes were found to be 2.4 percent higher than the traffic volumes in August 2019.

The 2024 Existing peak-month traffic volumes are summarized in Table 2, with the weekday morning and evening peak-month, peak-hour traffic volumes graphically depicted on Figures 3 and 4, respectively. Note that the peak-hour traffic volumes that are presented in Table 2 were obtained from the aforementioned figures.

Table 2
2024 EXISTING PEAK-MONTH TRAFFIC VOLUMES

Location/Peak Hour	AWT ^a	VPH ^b	K Factor ^c	Directional Distribution ^c
<i>Hanover Street, east of Rock Street:</i>	510	--	--	--
Weekday Morning (8:00 – 9:00 AM)	--	54	10.6	96.3% EB
Weekday Evening (3:45 – 4:45 PM)	--	42	8.2	90.5% EB

^aAverage weekday traffic in vehicles per day.

^bVehicles per hour.

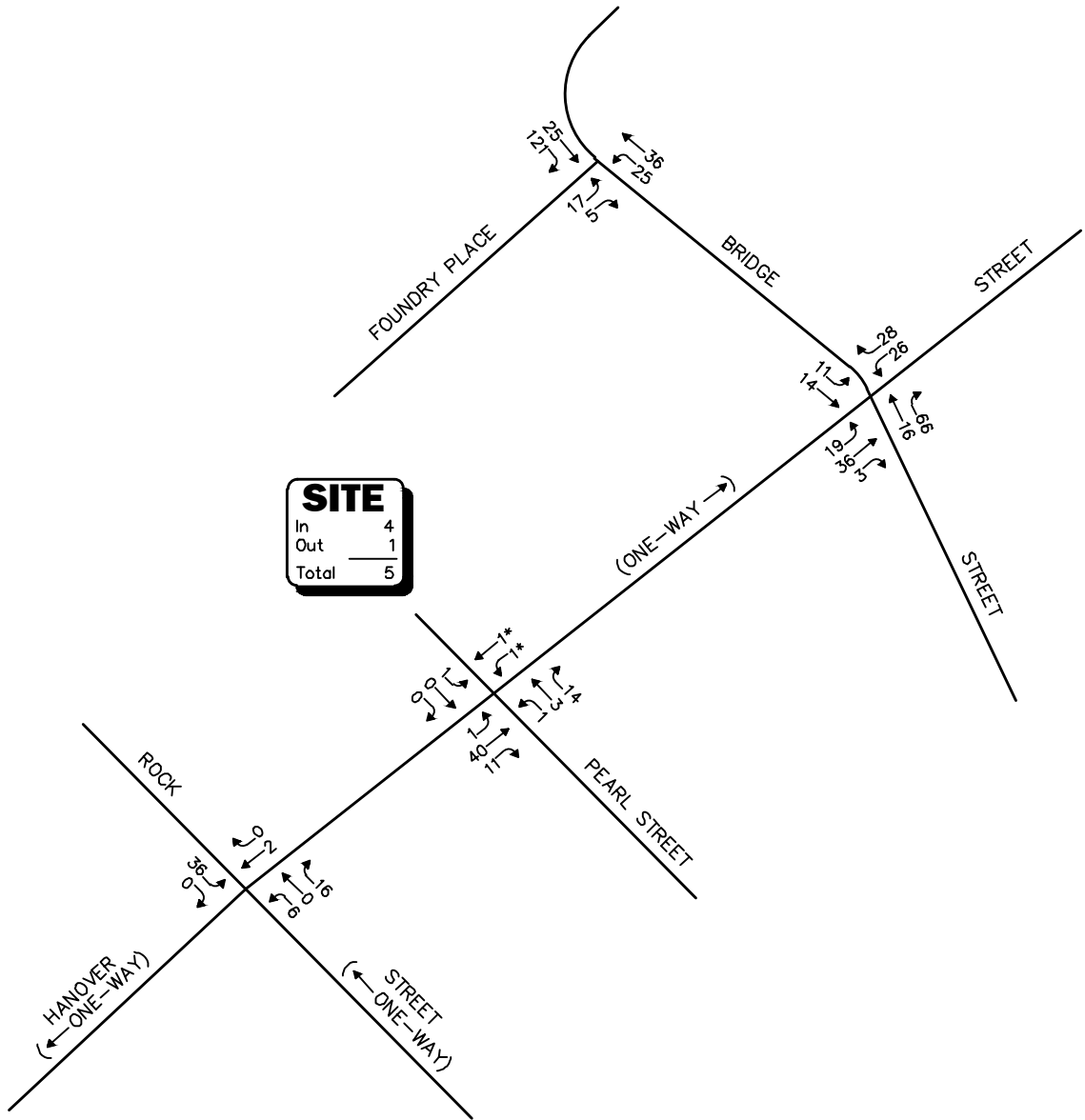
^cPercent of daily traffic occurring during the peak hour.

^dPercent traveling in peak direction.

EB = eastbound.

As can be seen in Table 2, Hanover Street east of Rock Street was found to accommodate approximately 510 vehicles on an average weekday (two-way, 24-hour volume) under peak-month conditions, with approximately 54 vehicles per hour (vph) during the weekday morning peak-hour and 42 vph during the weekday evening peak-hour.





*Illegal movement.

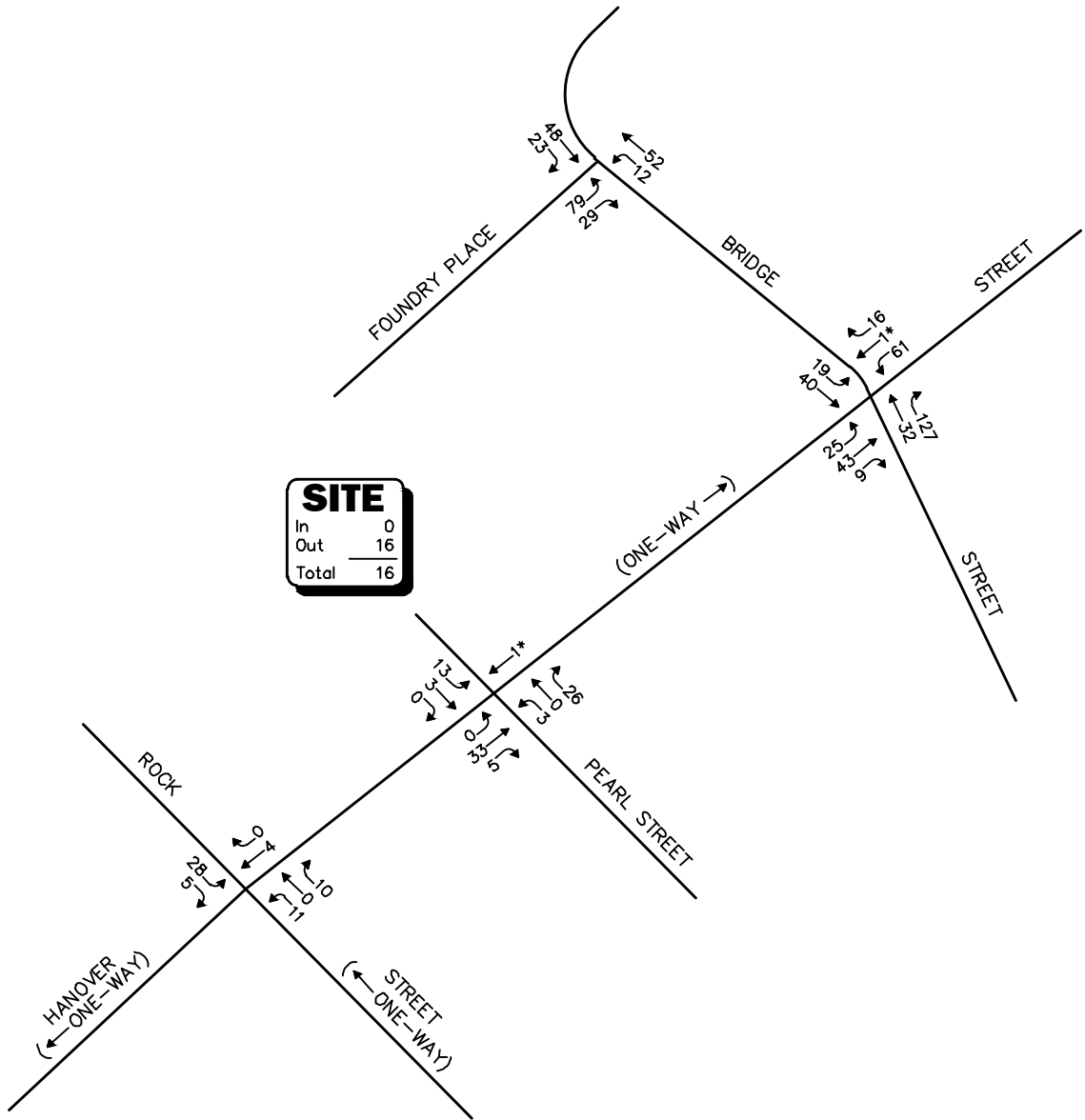
Note: Imbalances exist due to numerous curb cuts and side streets that are not shown.

Not To Scale



Figure 3

2024 Existing
Peak-Month
Weekday Morning
Peak-Hour Traffic Volumes



*Illegal movement.

Note: Imbalances exist due to numerous curb cuts and side streets that are not shown.

Not To Scale



Figure 4

2024 Existing
Peak-Month
Weekday Evening
Peak-Hour Traffic Volumes

Spot Speed Measurements

Vehicle travel speed measurements were performed on Hanover Street in the vicinity of the Project site in conjunction with the ATR counts, the results of which are summarized in Table 3.

Table 3
VEHICLE TRAVEL SPEED MEASUREMENTS

	Hanover Street	
	Eastbound	Westbound
Mean Travel Speed (mph)	13	11
85 th Percentile Speed (mph)	14	13
Statutory Speed Limit (mph)	30	30

mph = miles per hour.

As can be seen in Table 3, the mean vehicle travel speed along Hanover Street in the vicinity of the Project site was found to be 13 mph in the eastbound direction and 11 mph westbound. The measured 85th percentile vehicle travel speed, or the speed at which 85 percent of the observed vehicles traveled at or below, was found to be 14 mph in the eastbound direction and 13 mph westbound, which is 16 to 17 mph below the statutory speed limit (30 mph) in the vicinity of the Project site. The 85th percentile speed is used as the basis of engineering design and in the evaluation of sight distances and is often used in establishing posted speed limits.

Pedestrian and Bicycle Facilities

A comprehensive field inventory of pedestrian and bicycle facilities within the study area was undertaken in August 2024. The field inventory consisted of a review of the location of sidewalks and pedestrian crossing locations along the study roadways, as well as the location of existing and planned future bicycle facilities. Sidewalks are provided along both sides of the study area roadways, with marked crosswalks provided at the Bridge Street/Hanover Street and Bridge Street/Foundry Place intersections. Formal bicycle facilities are not provided within the study area; however, the study area roadways generally provide sufficient width to accommodate bicycle travel in a shared-traveled-way configuration.³

Public Transportation

Regularly scheduled public transportation services are not provided within the study area; however, east of the Project site, the Cooperative Alliance for Seacoast Transportation (COAST) provides fixed-route bus services by way of the following routes:

- *Route 13*: Dover/Portsmouth
- *Route 40*: Islington/Borthwick Trolley
- *Route 41*: Lafayette Trolley

³A minimum combined travel lane and paved shoulder width of 14 feet is required to support bicycle travel in a shared-traveled-way condition.



- *Route 42:* Pease Shuttle
- *Route 43:* Newington/Portsmouth
- *Route 44:* Portsmouth City Hall/Kittery (PNSY Gate 1)

All six bus routes include a stop at Hanover Station, which is 0.3 mile to the northeast of the Project site, or an approximate 7-minute walking distance. Route 40 has a stop located at the Islington Street/Tenner Street intersection, which is located 0.1 miles to the southeast of the Project site, or an approximate 3-minute walking distance. In addition to fixed-route bus services, COAST provides paratransit services for eligible persons who cannot use fixed-route transit at all or some of the time due to a physical, cognitive, or mental disability in compliance with the Americans with Disabilities Act (ADA).

The public transportation schedules and fare information are attached.

Motor Vehicle Crash Data

Motor vehicle crash data for the study area intersections has been requested from the Portsmouth Police Department in order to examine motor vehicle crash trends occurring within the study area. The data will be summarized in a supplement to this TIS once the data is received.

FUTURE CONDITIONS

Traffic volumes in the study area were projected to the years 2025 and 2035, which reflect the anticipated opening-year of the Project and a ten-year planning horizon from opening-year, respectively, consistent with NHDOT TIS guidelines. The future condition traffic-volume projections incorporate identified specific development projects by others, as well as general background traffic growth as a result of development external to the study area and presently unforeseen projects. Anticipated Project-generated traffic volumes superimposed upon the 2025 and 2035 No-Build traffic volumes reflect the Build conditions with the Project.

Future Traffic Growth

Future traffic growth is a function of the expected land development in the immediate area and the surrounding region. Several methods can be used to estimate this growth. A procedure frequently employed estimates an annual percentage increase in traffic growth and applies that percentage to all traffic volumes under study. The drawback to such a procedure is that some turning volumes may actually grow at either a higher or a lower rate at particular intersections.

An alternative procedure identifies the location and type of planned development, estimates the traffic to be generated, and assigns it to the area roadway network. This procedure produces a more realistic estimate of growth for local traffic; however, potential population growth and development external to the study area would not be accounted for in the resulting traffic projections.

To provide a conservative analysis framework, both procedures were used, the salient components of which are described below.

Specific Development by Others

The City of Portsmouth Planning Department was contacted in order to determine if there were any projects planned within the Town that would have an impact on future traffic volumes within the study area. Based on this consultation, the following projects were identified for review in conjunction with this assessment:



- ***Proposed Lot 5, Deer Street Development, 70 Maplewood Avenue, Portsmouth, New Hampshire.*** This project entails the construction of a mixed-use development to be located at 70 Maplewood Avenue, east of the Project site. The Project will consist of a four-story mixed-use building with retail, office, hotel, and commercial space.
- ***Proposed Lot 2 Community Space, Foundry Place, Portsmouth, New Hampshire.*** This project entails the construction of community space to be located at Foundry Place, east of the Foundry Place garage. The community space will consist of an 8,521 sf open space plaza.
- ***Proposed Lot 3, Deer Street Development, Deer Street, Portsmouth, New Hampshire.*** This project entails the construction of a mixed-use development to be located at 165 Deer Street, northeast of the Project site. The Project will consist of a five-story hotel with a rooftop restaurant and bar.
- ***Proposed Lot 4, Deer Street Development, Deer Street, Portsmouth, New Hampshire.*** This project entails the construction of a mixed-use development to be located at 163 Deer Street, northeast of the Project site. The Project will consist of a four-story commercial and office building with a restaurant on the first floor.
- ***Proposed Lot 6, Deer Street Development, Deer Street, Portsmouth, New Hampshire.*** This project entails the construction of a mixed-use development to be located at 89 and 99 Foundry Place, east of the Project site. The project will consist of a four-story multifamily residential building with ground floor commercial space.

Traffic volumes associated with identified specific development projects by others were obtained from information filed with the City and using trip-generation data published by the ITE⁴ for similar land uses as those identified. No other developments were identified at this time that are expected to result in an increase in traffic within the study area beyond the general background traffic growth rate.

General Background Traffic Growth

Traffic-volume data compiled by NHDOT from count station No. 02125001 was reviewed in order to determine general traffic growth trends in the area. This data indicates that traffic volumes have fluctuated over the 10-year period between 2009 and 2019, with the average traffic growth rate found to be approximately 0.04 percent. In order to provide a prudent planning condition from which to assess the potential impact of the Project on the transportation infrastructure, a higher 1.0 percent per year compounded annual background traffic growth rate was used in order to account for future traffic growth and presently unforeseen development within the study area.

Roadway Improvement Projects

The City of Portsmouth and NHDOT were contacted in order to determine if there were any planned roadway improvement projects expected to be completed within the study area. Based on these discussions, no roadway improvement projects are currently scheduled within the study area beyond routine maintenance activities.

⁴Institute of Transportation Engineers, op. cit. 1.



No-Build Traffic Volumes

The 2025 and 2035 No-Build peak-month, peak-hour traffic volumes were developed by applying the 1.0 percent per year compounded annual background traffic growth rate to the 2024 Existing peak-month, peak-hour traffic volumes and then adding the peak-hour traffic volumes associated with the identified specific development projects by others. The resulting 2025 No-Build weekday morning and evening peak-month, peak-hour traffic volumes are shown on Figures 5 and 6, respectively, with the corresponding 2035 No-Build peak-month, peak-hour traffic volumes shown on Figure 7 and 8.

PROJECT-GENERATED TRAFFIC

As proposed, the Project will entail the construction of up to 48 multifamily residential housing units. In order to develop the traffic characteristics of the Project, trip-generation statistics published by the ITE⁵ for a similar land use as that proposed were used. ITE Land Use Code (LUC) 220, *Multifamily Housing (Low Rise)*, was used to develop the anticipated traffic characteristics of the Project, the results of which are summarized in Table 4.

Table 4
TRIP GENERATION SUMMARY

Time Period	Vehicle Trips^a		
	Entering	Exiting	Total
Average Weekday	192	192	384
Weekday Morning Peak-Hour	9	29	38
Weekday Evening Peak-Hour	26	15	41

^aBased on ITE LUC 220, *Multifamily Housing (Low Rise)*; 48 units.

Project-Generated Traffic-Volume Summary

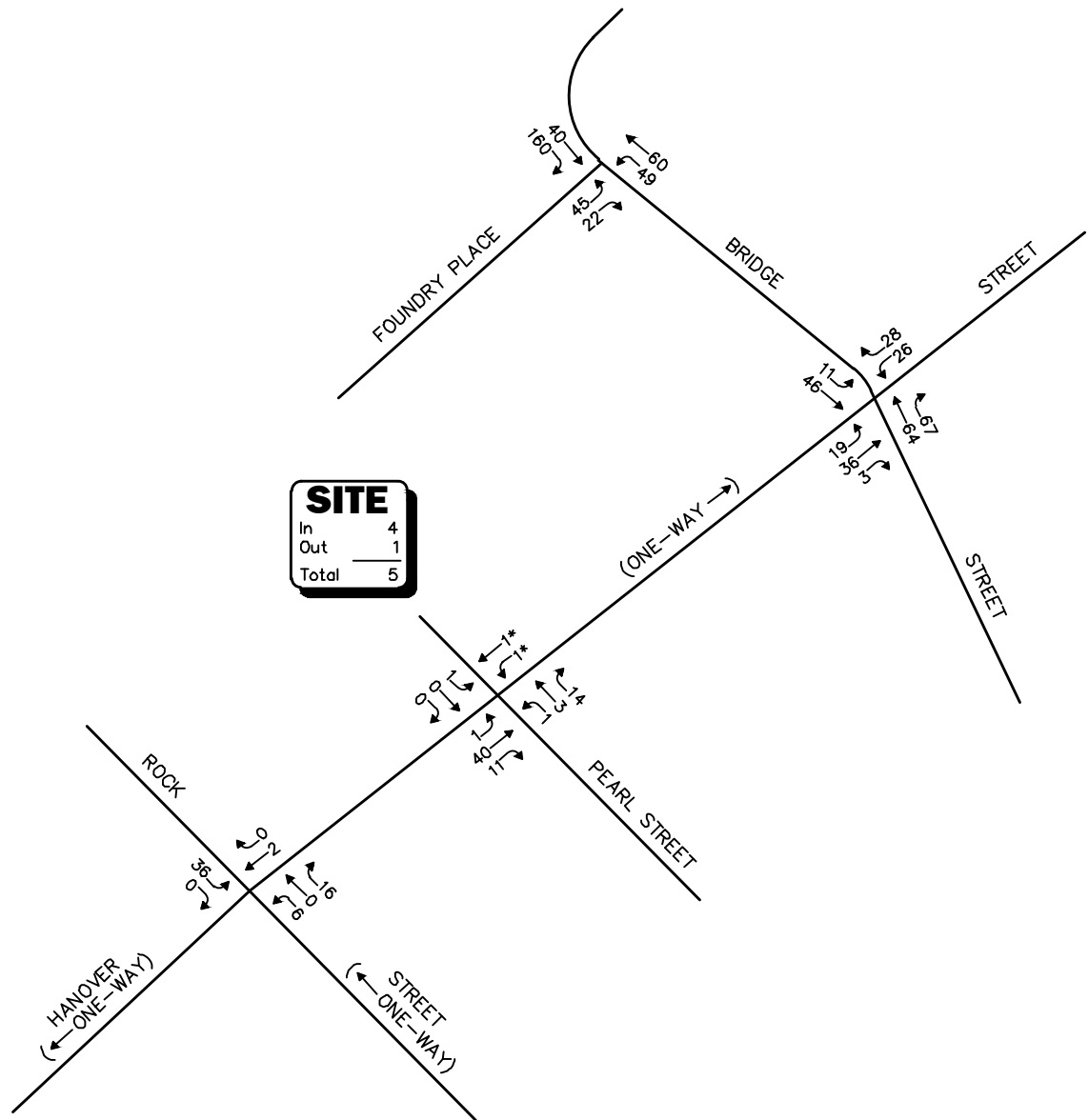
As can be seen in Table 4, the Project is predicted to generate approximately 384 vehicle trips on an average weekday (two-way, 24-hour volume, or 192 vehicles entering and 192 exiting) and approximately 38 vehicle trips (9 vehicles entering and 29 exiting) expected during the weekday morning peak-hour and 41 vehicle trips (26 vehicles entering and 15 exiting) expected during the weekday evening peak-hour.

Trip Distribution and Assignment

The directional distribution of generated trips to and from the Project site was determined based on a review of U.S. Census Journey-to-Work data for the City of Portsmouth and then refined based on a review of existing traffic patterns within the study area. The general trip distribution for the Project is graphically depicted on Figure 9, with the additional traffic expected to be generated by the Project assigned onto the study area roadway network as shown on Figures 10 and 11.

⁵Institute of Transportation Engineers, op. cit. 1.





*Illegal movement.

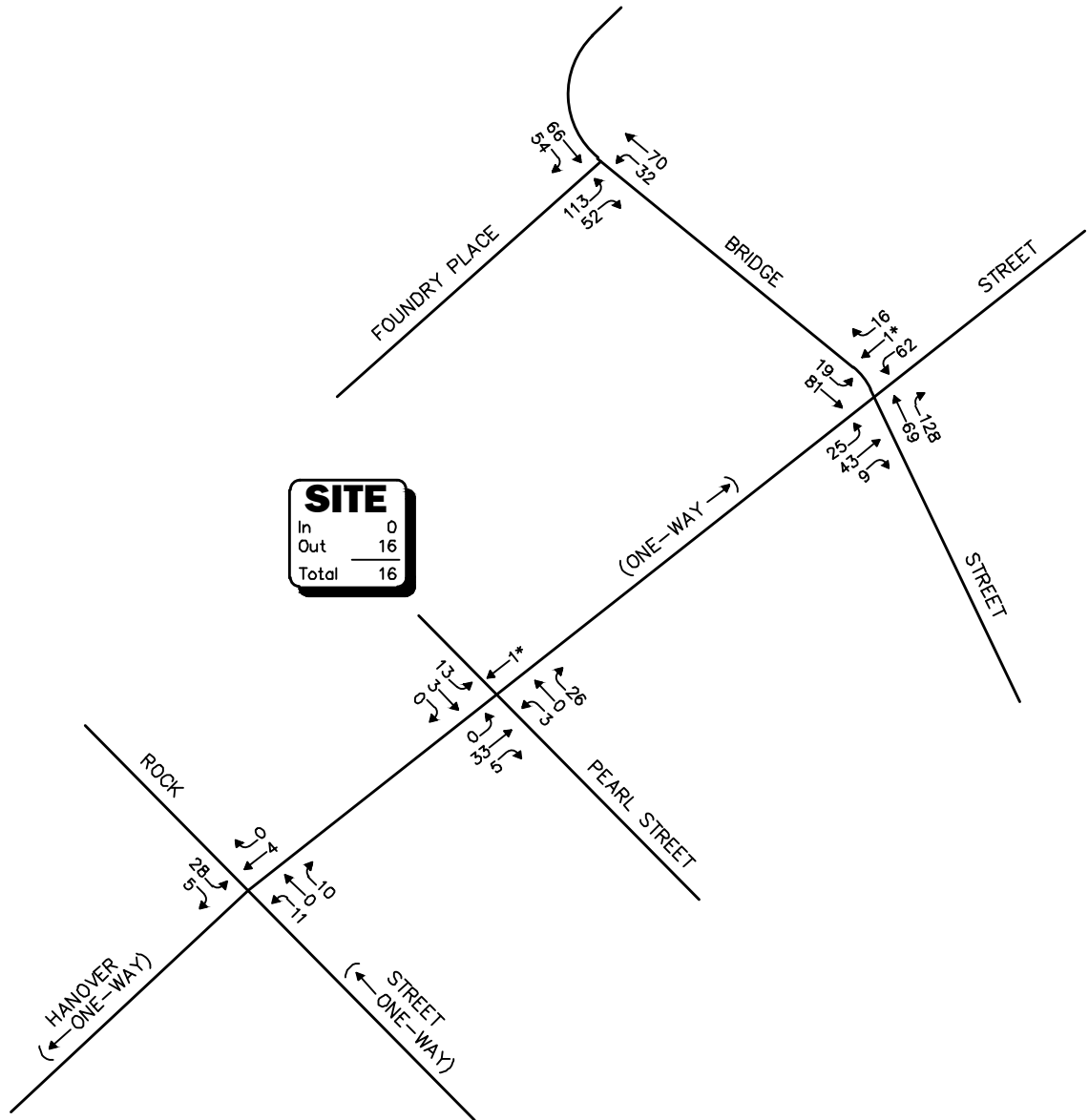
Note: Imbalances exist due to numerous curb cuts and side streets that are not shown.

Not To Scale



Figure 5

2025 No-Build
Peak-Month
Weekday Morning
Peak-Hour Traffic Volumes



*Illegal movement.

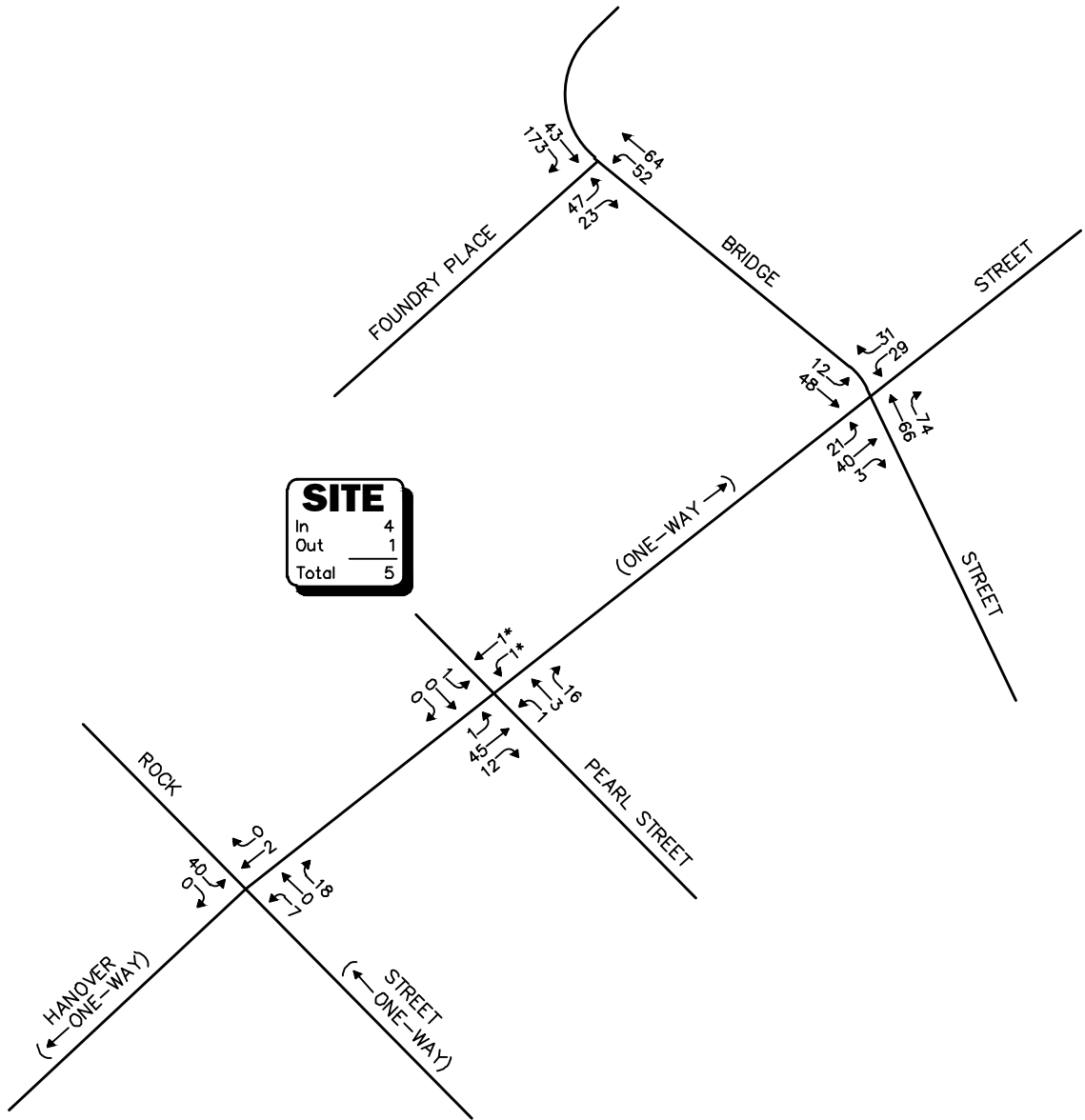
Note: Imbalances exist due to numerous curb cuts and side streets that are not shown.

Not To Scale

Figure 6



2025 No-Build
Peak-Month
Weekday Evening
Peak-Hour Traffic Volumes



*Illegal movement.

Note: Imbalances exist due to numerous curb cuts and side streets that are not shown.

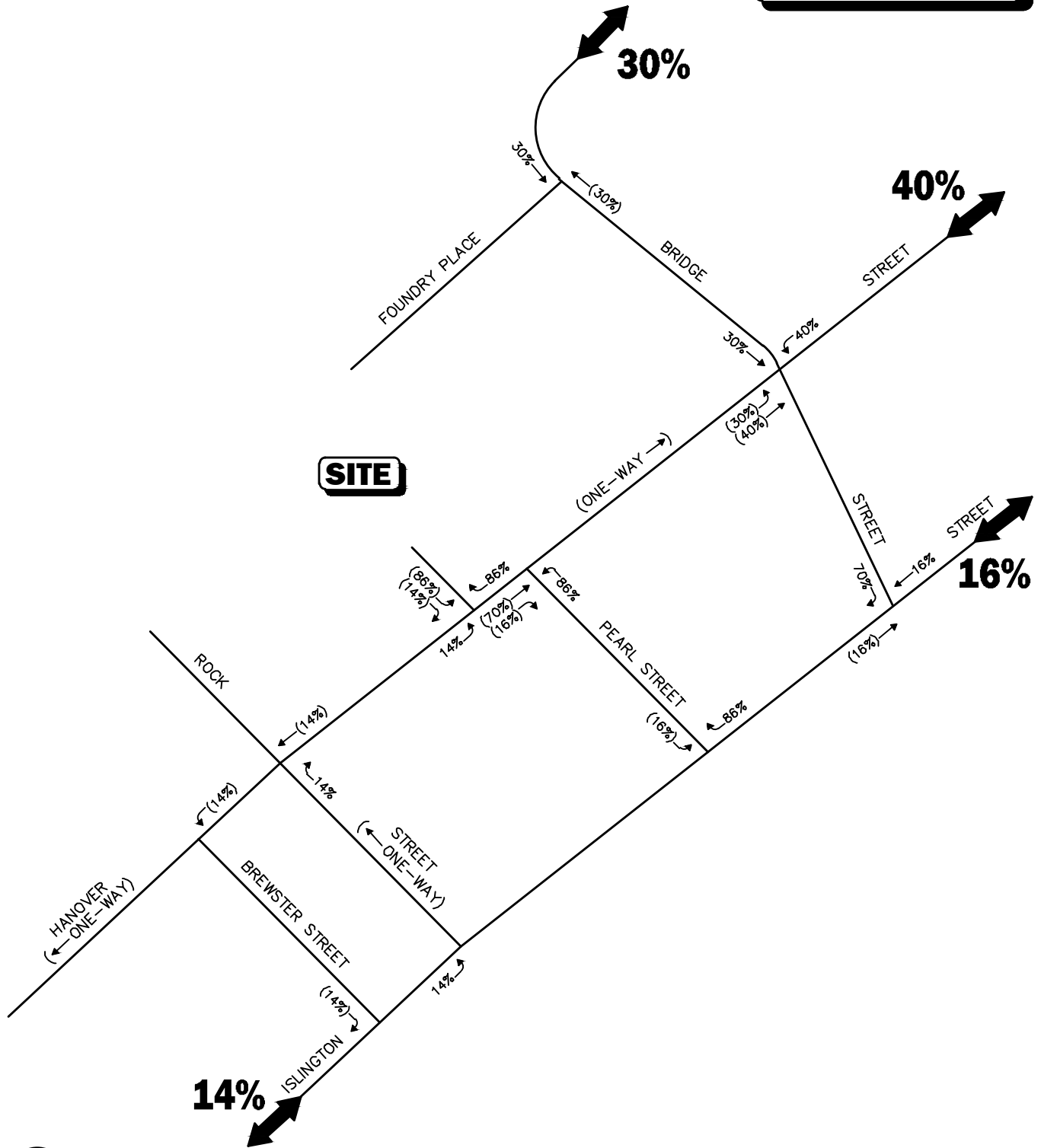
Not To Scale

Figure 7



**2035 No-Build
Peak-Month
Weekday Morning
Peak-Hour Traffic Volumes**

Legend:
 XX Entering Trips
 (XX) Exiting Trips



Not To Scale Figure 9

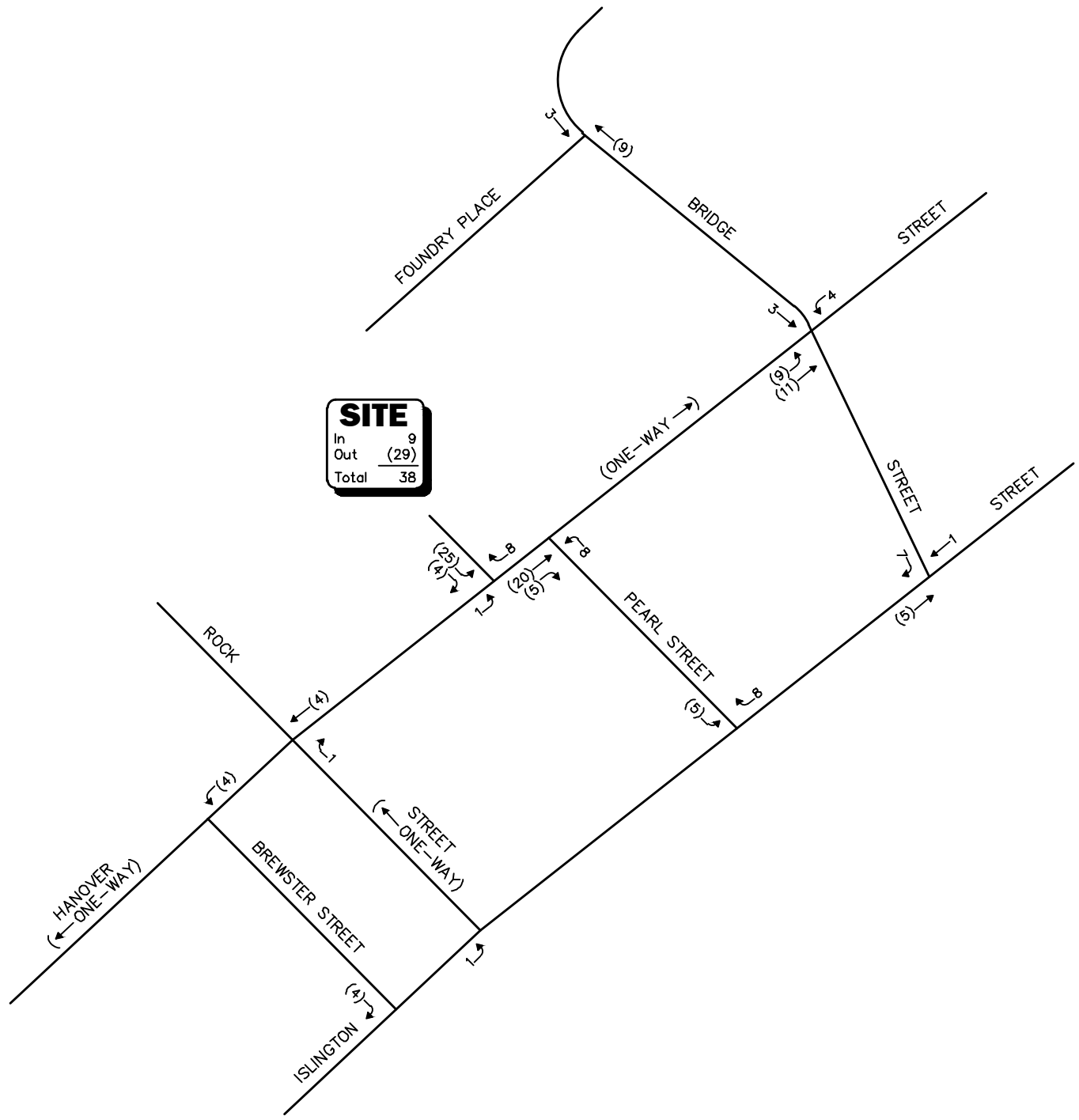


Trip Distribution Map

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Legend:

- XX Entering Trips
- (XX) Exiting Trips



Not To Scale

Figure 10

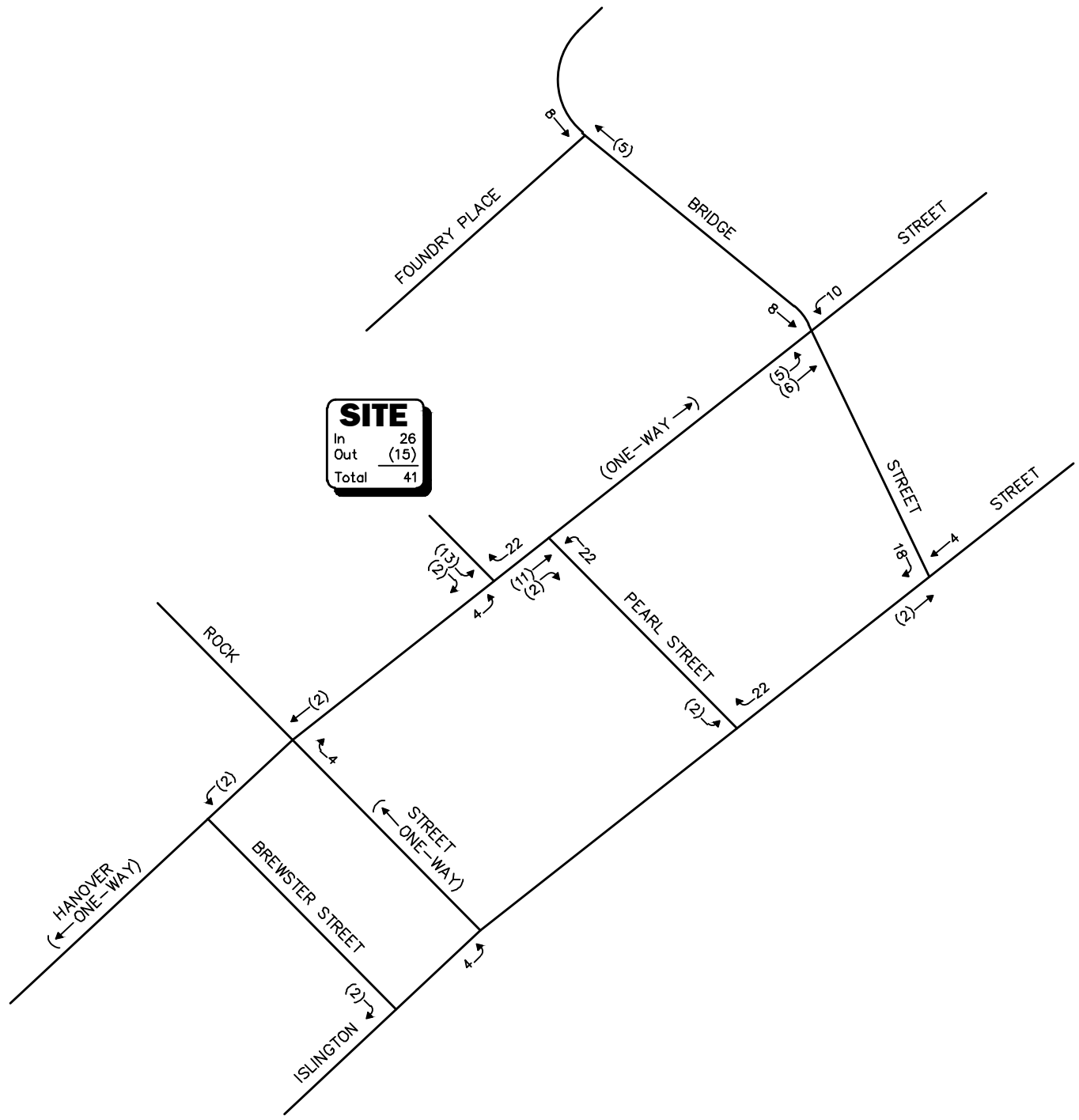


**Project-Generated
Peak-Month
Weekday Morning
Peak-Hour Traffic Volumes**

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Legend:

- XX Entering Trips
- (XX) Exiting Trips



SITE	
In	26
Out	(15)
Total	41

 Not To Scale

Figure 11



**Project-Generated
Peak-Month
Weekday Evening
Peak-Hour Traffic Volumes**

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Build Traffic Volumes

The 2025 Opening-Year Build and 2035 Build condition traffic volumes were developed by adding the peak-hour Project-generated traffic to the corresponding 2025 and 2035 No-Build peak-month, peak-hour traffic volumes. The resulting 2025 Opening-Year Build condition weekday morning and evening peak-hour traffic volumes are graphically depicted on Figures 12 and 13, respectively, with the corresponding 2035 Build condition peak-month, peak-hour traffic volumes depicted on Figures 14 and 15.

TRAFFIC OPERATIONS ANALYSIS

In order to assess the potential impact of the Project on the roadway network, a detailed traffic operations analysis (motorist delays, vehicle queuing, and level of service) was performed at the study area intersections. Capacity analyses provide an indication of how well transportation facilities serve the traffic demands placed upon them, with vehicle queue analyses providing a secondary measure of the operational characteristics of an intersection or section of roadway under study.

In brief, six levels of service are defined for each type of facility. They are given letter designations ranging from A to F, with LOS “A” representing the best operating conditions and LOS “F” representing congested or constrained operations. An LOS of “E” is representative of a transportation facility that is operating at its design capacity while an LOS of “D” is generally defined as the limit of “acceptable” traffic operations. Since the level of service of a traffic facility is a function of the flows placed upon it, such a facility may operate at a wide range of levels of service depending on the time of day, day of week, or period of the year. The Synchro® 12 intersection capacity analysis software, which is based on the analysis methodologies and procedures presented in the *7th Edition Highway Capacity Manual (HCM)*⁶ for unsignalized intersections.

Analysis Results

Level-of-service and vehicle queue analyses were conducted for 2024 Existing, 2025 No-Build, 2025 Opening-Year Build, 2035 No-Build, and 2035 Build conditions for the study area intersections and the Project site driveway. The results of the intersections capacity and vehicle queue analyses are summarized in Table 5, with the detailed analysis results presented in the Attachment.

The following is a summary of the level-of-service and vehicle queue analyses for the intersections within the study area. For context, we note that an LOS of “D” or better is generally defined as “acceptable” operating conditions.

Hanover Street at Rock Street

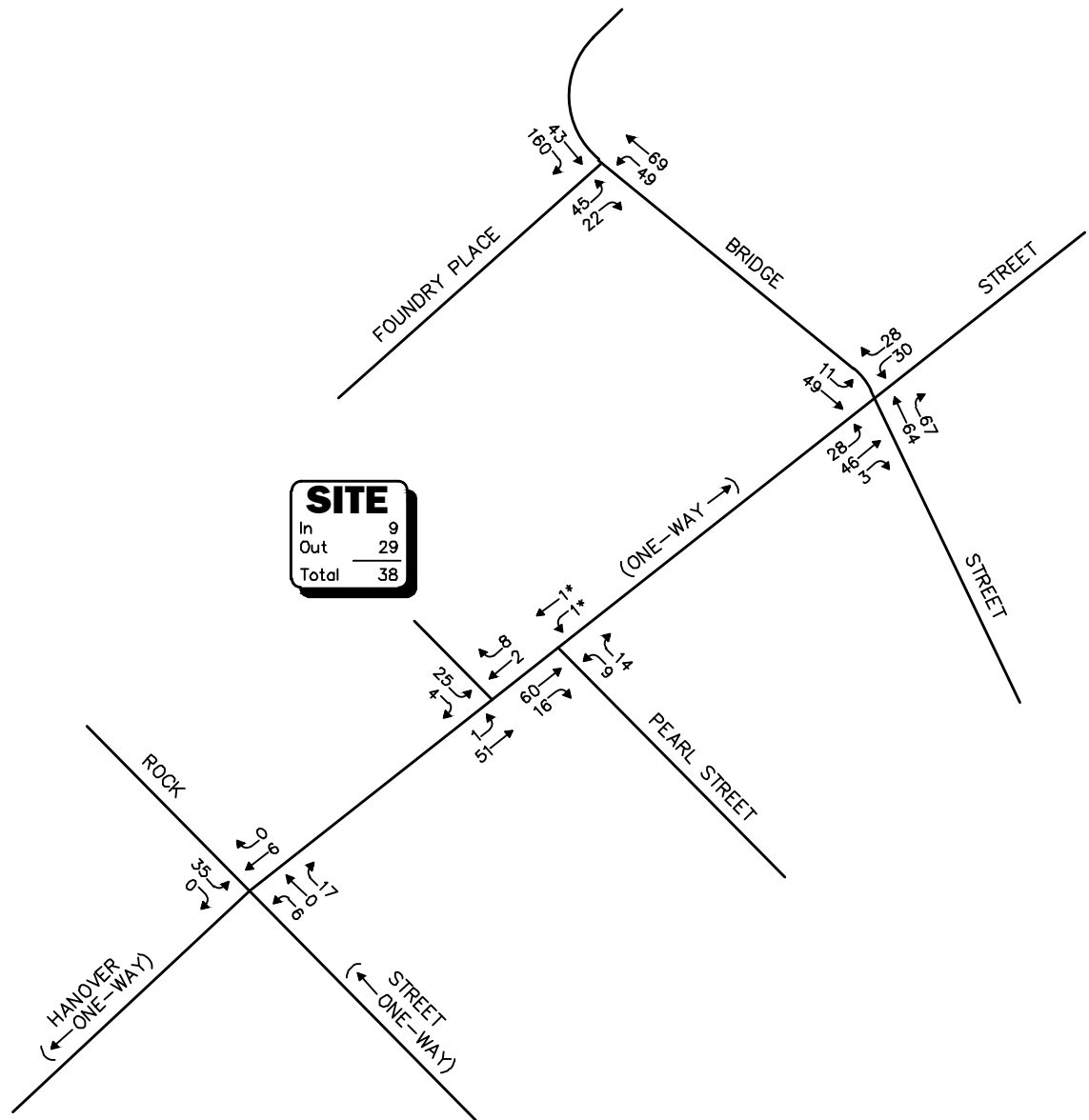
Under 2025 Opening-Year and 2035 Build peak-month conditions, no changes in level of service or vehicle queuing were shown to occur over No-Build conditions as a result of the addition of Project-related traffic, with all movements continuing to operate at LOS A with negligible vehicle queuing.

Hanover Street at Pearl Street

Under 2025 Opening-Year Build peak-month conditions, no changes in level of service or vehicle queuing were shown to occur over No-Build conditions as a result of the addition of Project-related traffic, with all movements continuing to operate at LOS A with negligible vehicle queuing.

⁶*Highway Capacity Manual*, Transportation Research Board; Washington, DC; 2022.





*Illegal movement.

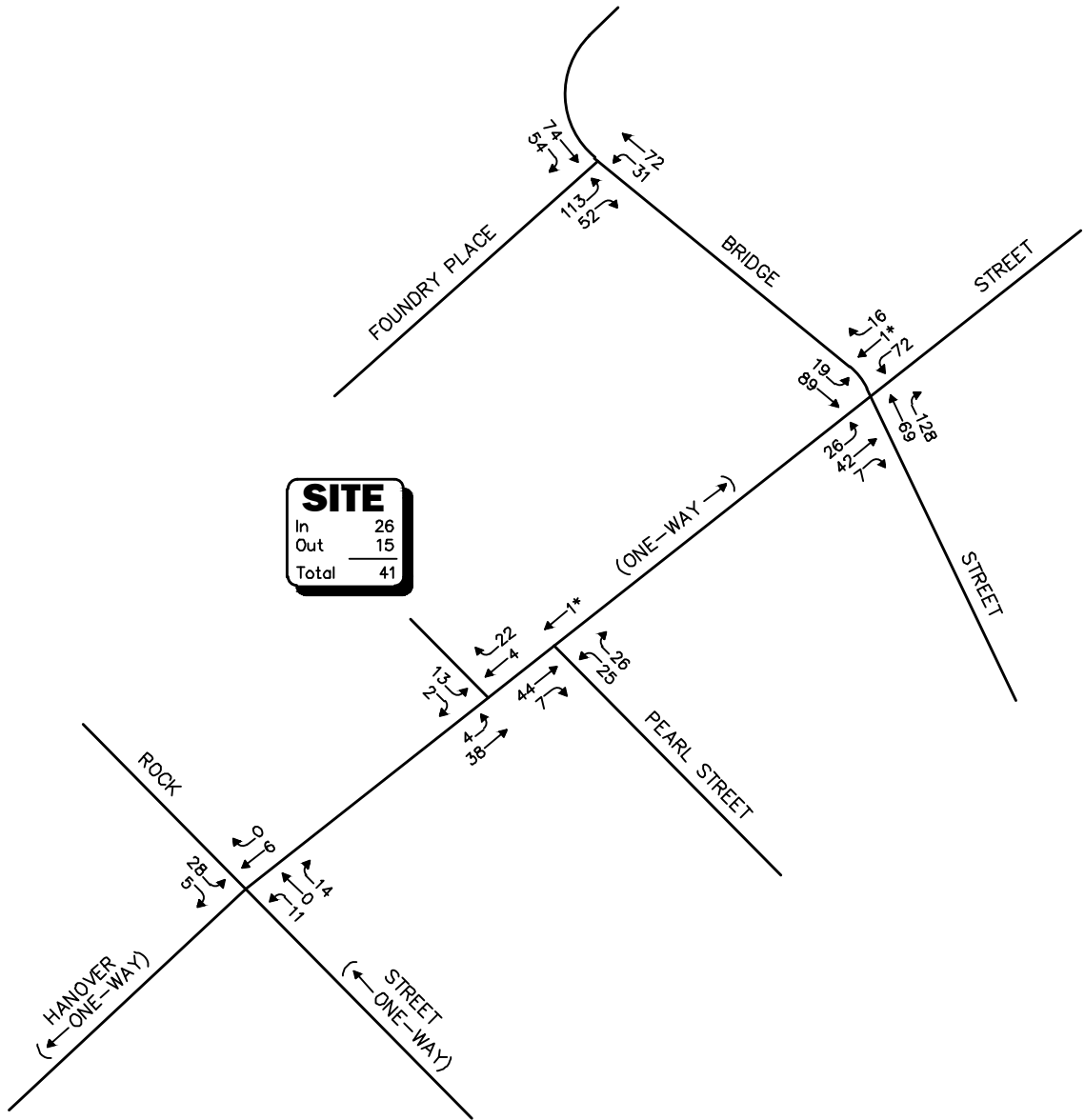
Note: Imbalances exist due to numerous curb cuts and side streets that are not shown.

Not To Scale

Figure 12

**2025 Opening-Year Build
Peak-Month
Weekday Morning
Peak-Hour Traffic Volumes**





*Illegal movement.

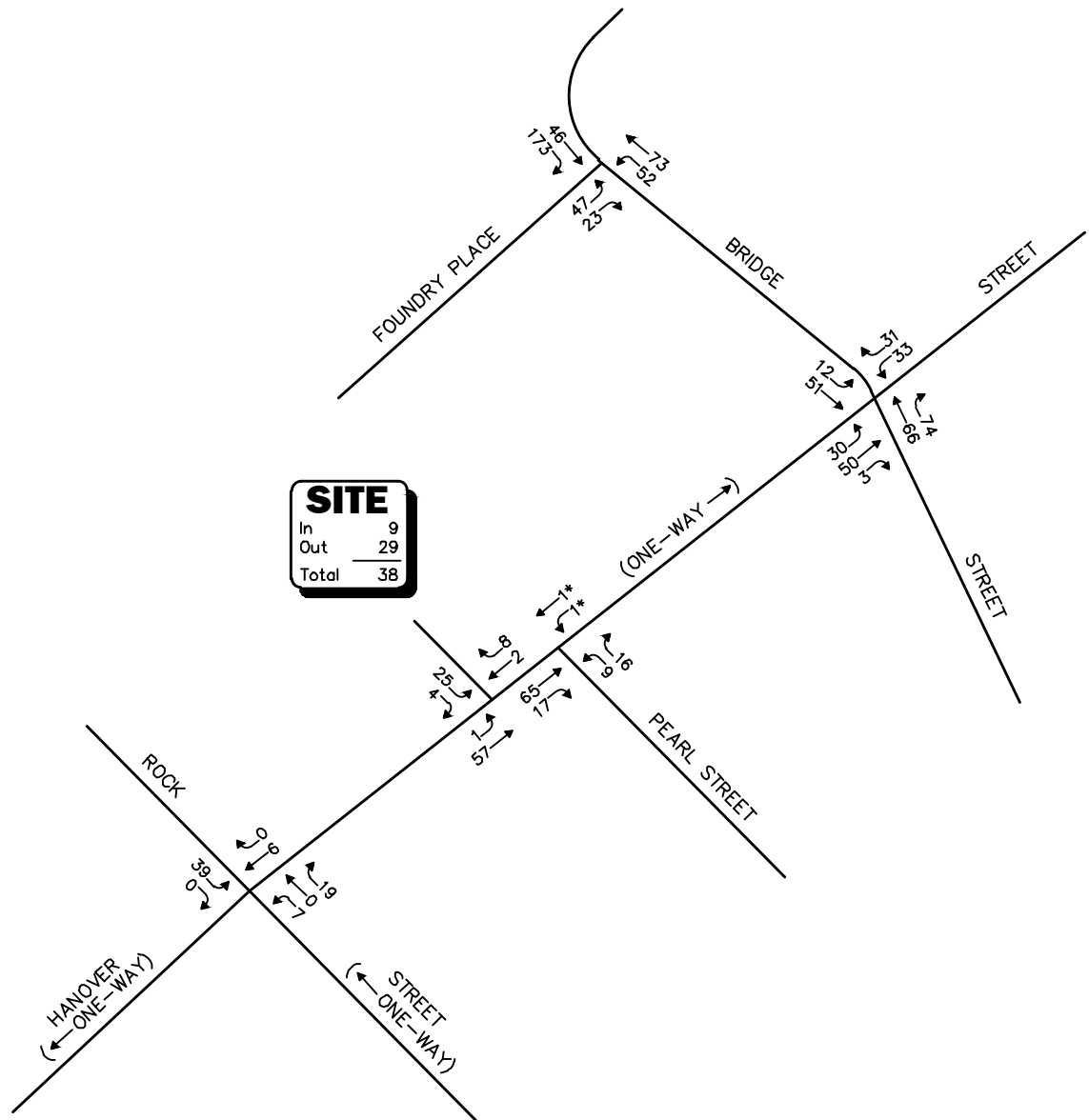
Note: Imbalances exist due to numerous curb cuts and side streets that are not shown.

Not To Scale



Figure 13

**2025 Opening-Year Build
Peak-Month
Weekday Evening
Peak-Hour Traffic Volumes**



*Illegal movement.

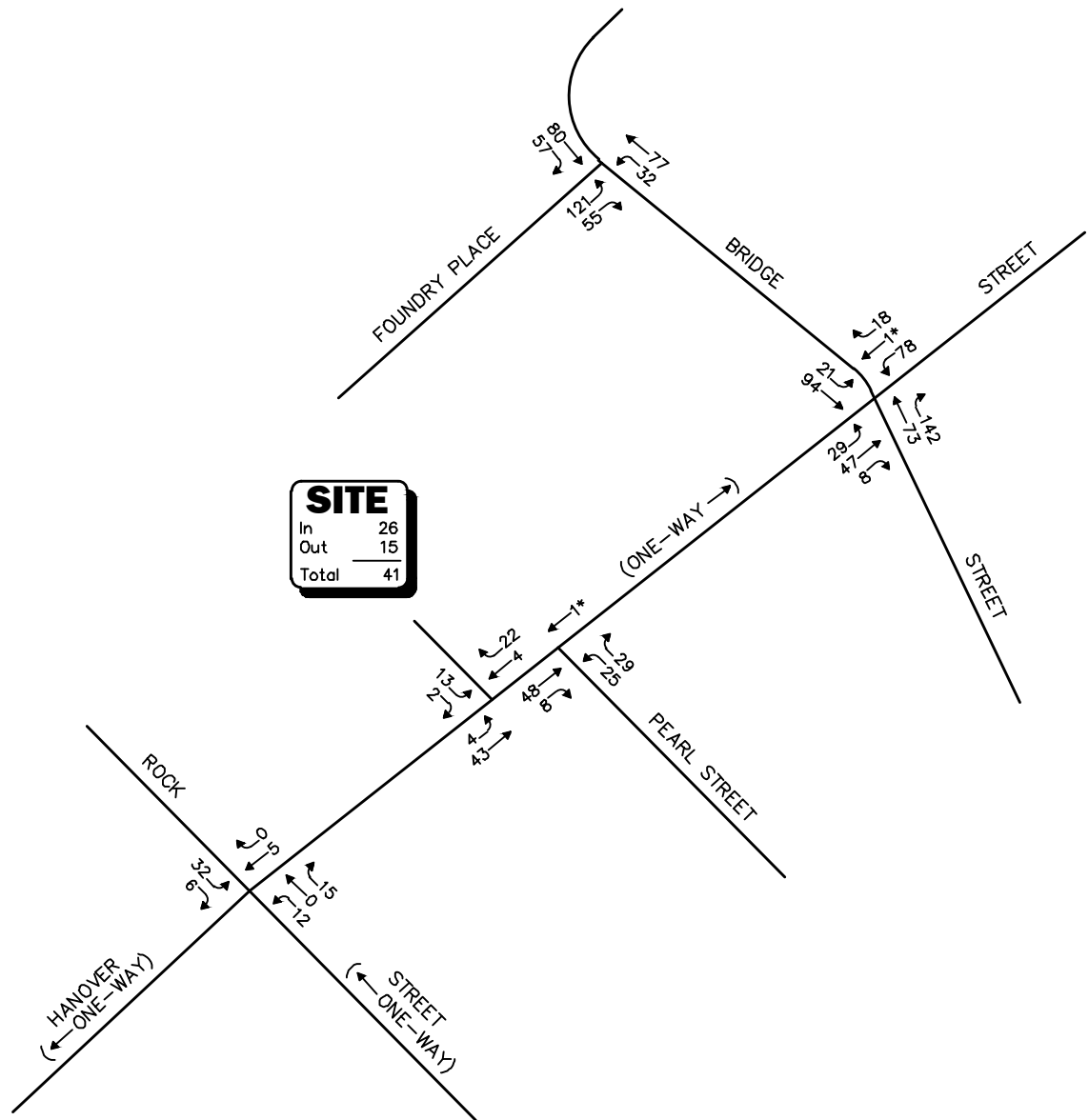
Note: Imbalances exist due to numerous curb cuts and side streets that are not shown.

Not To Scale

Figure 14



**2035 Build
Peak-Month
Weekday Morning
Peak-Hour Traffic Volumes**



*Illegal movement.

Note: Imbalances exist due to numerous curb cuts and side streets that are not shown.

Not To Scale

Figure 15



**2035 Build
Peak-Month
Weekday Evening
Peak-Hour Traffic Volumes**

Under 2035 Build peak-month conditions, no changes in level of service was shown to occur over No-Build conditions, with all movements at the intersection shown to continue to operate at LOS A. Project-related impacts were generally defined as an increase in an average motorist delay of less than 1.0 seconds that resulted in a corresponding increase in vehicle queuing of up to one (1) vehicle.

Hanover Street at Bridge Street

Under 2025 Opening-Year and 2035 Build peak-month conditions, no changes in level of service or vehicle queuing were shown to occur over No-Build conditions as a result of the addition of Project-related traffic, with all movements continuing to operate at LOS A with vehicle queues of up to one (1) vehicle.

Bridge Street at Foundry Place

Under 2025 Opening-Year and 2035 Build peak-month conditions, no changes in level of service or vehicle queuing were shown to occur over No-Build conditions as a result of the addition of Project-related traffic, with all movements continuing to operate at LOS B or better with vehicle queues of up to (2) vehicles.

Hanover Street at the Project Site Driveway

Under 2025 Opening-Year and 2035 Build peak-month conditions, all movements at the Project site driveway intersection with Hanover Street were shown to operate at LOS A during both the weekday morning and evening peak hours with negligible vehicle queuing predicted.



**Table 5
UNIGNALIZED INTERSECTION LEVEL-OF-SERVICE AND VEHICLE QUEUE SUMMARY**

Unsignalized Intersection/Peak Hour/Movement	2024 Existing				2025 No-Build				2025 Opening-Year Build				2035 No-Build				2035 Build			
	Demand ^a	Delay ^b	LOS ^c	Queue ^d 95 th	Demand	Delay	LOS	Queue 95 th	Demand	Delay	LOS	Queue 95 th	Demand	Delay	LOS	Queue 95 th	Demand	Delay	LOS	Queue 95 th
Hanover Street at Rock Street																				
<i>Weekday Morning:</i>																				
Hanover Street WB TH/RT	2	7.1	A	0	2	7.1	A	0	6	7.1	A	0	2	7.1	A	0	6	7.2	A	0
Rock Street NB LT/TH/RT	22	6.7	A	0	22	6.7	A	0	23	6.7	A	0	25	6.7	A	0	26	6.7	A	0
Rock Street SB LT/RT	36	7.3	A	0	36	7.3	A	0	35	7.4	A	0	40	7.4	A	0	39	7.4	A	0
<i>Weekday Evening:</i>																				
Hanover Street WB TH/RT	4	7.1	A	0	4	7.1	A	0	6	7.1	A	0	4	7.1	A	0	5	7.2	A	0
Rock Street NB LT/TH/RT	21	6.9	A	0	21	6.9	A	0	23	6.9	A	0	23	6.9	A	0	27	6.9	A	0
Rock Street SB LT/RT	33	7.2	A	0	33	7.2	A	0	33	7.3	A	0	27	7.3	A	0	38	7.3	A	0
Hanover Street at Pearl Street																				
<i>Weekday Morning:</i>																				
Hanover Street EB LT/TH/RT	52	0.1	A	0	52	0.1	A	0	76	0.1	A	0	58	0.1	A	0	82	0.1	A	0
Hanover Street WB LT/TH	2	2.6	A	0	2	2.6	A	0	2	2.6	A	0	2	2.6	A	0	2	2.6	A	0
Pearl Street NB LT/TH/RT	18	8.8	A	0	18	8.8	A	0	23	8.9	A	0	20	8.8	A	0	25	8.9	A	0
Pearl Street SB LT/TH/RT	1	8.3	A	0	1	8.3	A	0	--	--	--	--	1	8.3	A	0	--	--	--	--
<i>Weekday Evening:</i>																				
Hanover Street EB LT/TH/RT	38	0.0	A	0	38	0.0	A	0	51	0.0	A	0	43	0.0	A	0	56	0.0	A	0
Hanover Street WB TH	1	0.0	A	0	1	0.0	A	0	1	0.0	A	0	1	0.0	A	0	1	0.0	A	0
Pearl Street NB LT/TH/RT	29	8.8	A	0	29	8.8	A	0	51	9.0	A	0	32	8.9	A	0	54	9.1	A	1
Pearl Street SB LT/TH/RT	16	8.6	A	0	16	9.1	A	0	--	--	--	--	16	9.1	A	0	--	--	--	--
Hanover Street at Bridge Street																				
<i>Weekday Morning:</i>																				
Hanover Street EB LT/TH/RT	58	7.7	A	1	58	8.0	A	1	77	8.2	A	1	64	8.1	A	1	83	8.3	A	1
Hanover Street WB LT/RT	54	7.3	A	0	54	7.6	A	1	60	8.0	A	1	60	7.8	A	1	64	7.9	A	1
Bridge Street NB TH/RT	82	7.2	A	1	130	8.0	A	1	131	8.1	A	1	140	8.1	A	1	140	8.2	A	1
Bridge Street SB LT/TH	25	7.5	A	0	57	7.9	A	0	58	7.9	A	0	60	8.0	A	1	63	8.1	A	1
<i>Weekday Evening:</i>																				
Hanover Street EB LT/TH/RT	77	8.1	A	1	77	8.4	A	1	99	8.8	A	1	86	8.6	A	1	84	8.7	A	1
Hanover Street WB LT/TH/RT	78	8.3	A	1	79	8.6	A	1	75	8.6	A	1	87	8.8	A	1	97	9.0	A	1
Bridge Street NB TH/RT	159	7.9	A	1	197	8.5	A	1	197	8.6	A	1	215	8.8	A	1	215	8.9	A	1
Bridge Street SB LT/TH	59	8.1	A	1	100	8.6	A	1	108	8.7	A	1	107	8.8	A	1	115	8.9	A	1
Bridge Street at Foundry Place																				
<i>Weekday Morning:</i>																				
Foundry Place EB LT/RT	22	10.0	A	0	67	11.5	B	1	67	11.6	B	1	69	11.8	B	1	70	12.3	B	1
Bridge Street NB LT/TH	61	3.2	A	0	109	3.6	A	0	118	3.6	A	0	116	3.6	A	0	125	4.7	A	0
Bridge Street SB TH/RT	146	0.0	A	0	200	0.0	A	0	203	0.0	A	0	216	0.0	A	0	219	0.0	A	0
<i>Weekday Evening:</i>																				
Foundry Place EB LT/RT	108	10.5	B	1	165	12.5	B	2	165	12.7	B	2	176	13.1	B	2	176	13.2	B	2
Bridge Street NB LT/TH	64	1.4	A	0	102	2.4	A	0	103	2.4	A	0	108	2.3	A	0	109	2.3	A	0
Bridge Street SB TH/RT	71	0.0	A	0	120	0.0	A	0	128	0.0	A	0	129	0.0	A	0	137	0.0	A	0
Hanover at the Project Site Driveway																				
<i>Weekday Morning:</i>																				
Hanover Street EB TH/RT	--	--	--	--	--	--	--	--	52	0.1	A	0	--	--	--	--	58	0.1	A	0
Hanover Street WB LT/TH	--	--	--	--	--	--	--	--	10	0.0	A	0	--	--	--	--	10	0.0	A	0
Project Site Driveway SB LT/RT	--	--	--	--	--	--	--	--	29	8.9	A	0	--	--	--	--	29	8.9	A	0
<i>Weekday Evening:</i>																				
Hanover Street EB TH/RT	--	--	--	--	--	--	--	--	42	0.7	A	0	--	--	--	--	47	0.6	A	0
Hanover Street WB LT/TH	--	--	--	--	--	--	--	--	26	0.0	A	0	--	--	--	--	26	0.0	A	0
Project Site Driveway SB LT/RT	--	--	--	--	--	--	--	--	15	8.9	A	0	--	--	--	--	15	8.9	A	0

^aDemand in vehicles per hour.

^bAverage control delay per vehicle (in seconds).

^cLevel of service.

^dQueue length in vehicles.

NB = northbound; SB = southbound; EB = eastbound; WB = westbound; LT = left-turning movements; TH = through movements; RT = right-turning movements.

SIGHT DISTANCE MEASUREMENTS

Sight distance measurements were performed at the Project site driveway intersection with Hanover Street in accordance with the American Association of State Highway and Transportation Officials (AASHTO)⁷ requirements. Both stopping sight distance (SSD) and intersection sight distance (ISD) measurements were performed. In brief, SSD is the distance required by a vehicle traveling at the design speed of a roadway, on wet pavement, to stop prior to striking an object in its travel path. ISD or corner sight distance (CSD) is the sight distance required by a driver entering or crossing an intersecting roadway to perceive an oncoming vehicle and safely complete a turning or crossing maneuver with oncoming traffic. In accordance with AASHTO standards, if the measured ISD is at least equal to the required SSD value for the appropriate design speed, the intersection can operate in a safe manner. Table 6 presents the measured SSD and ISD at the subject intersection.

Table 6
SIGHT DISTANCE MEASUREMENTS^a

Intersection/Sight Distance Measurement	Feet		
	Required Minimum (SSD)	Desirable (ISD) ^b	Measured
<i>Hanover Street at the Project Site Driveway</i>			
<i>Stopping Sight Distance:</i>			
Hanover Street approaching from the East	115	--	188
Hanover Street approaching from the West	115	--	281
<i>Intersection Sight Distance:</i>			
Looking to the East from the Project Driveway	115	195	146
Looking to the West from the Project Driveway	115	225	150

^aRecommended minimum values obtained from *A Policy on Geometric Design of Highways and Streets*, 7th Edition; American Association of State Highway and Transportation Officials (AASHTO); 2018; and based on a 20-mph approach speed along Hanover Street.

^bValues shown are the intersection sight distance for a vehicle turning right or left exiting a roadway under STOP control such that motorists approaching the intersection on the major street should not need to adjust their travel speed to less than 70 percent of their initial approach speed.

As can be seen in Table 6, the available lines of sight to and from Hanover Street at its intersection with the Project site driveway exceed the recommended minimum sight distance to function in a safe manner (SSD) based on a 20-mph approach speed which is slightly higher than the measured 85th percentile vehicle travel speed (13/16 mph).

⁷*A Policy on Geometric Design of Highway and Streets*, 7th Edition; American Association of State Highway and Transportation Officials (AASHTO); Washington D.C.; 2018.



SUMMARY

VAI has completed a detailed assessment of the potential impacts on the transportation infrastructure associated with the proposed redevelopment of the Kearsarge Mill located at 361 Hanover Street in Portsmouth, New Hampshire, to accommodate a multifamily residential development. This study has been completed in accordance with the NHDOT guidelines for the preparation of a TIS as defined in the Driveway Permit Policy and has evaluated the following specific areas as they relate to the Project: i) access requirements; ii) potential off-site improvements; and iii) safety considerations; under existing and future conditions, both with and without the Project. Based on this assessment, we have concluded the following with respect to the Project:

1. Using trip-generation statistics published by the ITE,⁸ the Project is expected to generate approximately 384 vehicle trips on an average weekday (two-way, 24-hour volume), with approximately 38 vehicle trips expected during the weekday morning peak-hour and 41 vehicle trips expected during the weekday evening peak-hour;
2. The Project will not have a significant impact (increase) on motorist delays or vehicle queuing over Existing or anticipated future conditions without the Project (No-Build conditions), with no (0) changes in level of service and all movements at the study area intersections shown to continue to operate at LOS B or better, where an LOS “D” or better is defined as “acceptable” operating conditions. Project-related impacts were generally defined as an increase in average motorist delay of up to 1.1 seconds that resulted in a corresponding increase in vehicle queuing of up to one (1) vehicle;
3. Under 2025 Opening Year Build and 2035 Build conditions, all movements exiting the Project site driveway to Hanover Street were shown to operate at LOS A with negligible vehicle queuing. All movements along Hanover Street approaching the Project site driveway were shown to operate at LOS A, also with negligible vehicle queuing; and
4. Lines of sight at the intersection of the Project site driveway with Hanover Street were found to exceed the recommended minimum distance for the intersection to operate in a safe manner based on the appropriate speed.

In consideration of the above, we have concluded that the Project can be accommodated within the confines of the existing transportation infrastructure in a safe and efficient manner with the implementation of the recommendations that follow.

RECOMMENDATIONS

Project Access

Access to the Project site will be provided by way of a new driveway that will intersect the south side of Hanover Street approximately 60 feet east of Rock Street. The following recommendations are offered with respect to the design and operation of the Project site access and internal circulations, many of which are reflected on the site plans:

⁸Institute of Transportation Engineers, op. cit. 1.



- The Project site driveway will be 24 feet in width and will be designed to accommodate the turning and maneuvering requirements of moving vans, trash/recycling vehicles and the largest anticipated responding emergency vehicle.
- Vehicles exiting the Project site to Hanover Street should be placed under STOP-sign control.
- Where perpendicular parking is proposed, the drive aisle behind the parking should be a minimum of 23 feet in order to facilitate parking maneuvers.
- All signs and pavement markings to be installed within the Project site should conform to the applicable standards of the *Manual on Uniform Traffic Control Devices (MUTCD)*.⁹
- Sidewalks have been provided within the Project site that link the existing and proposed buildings to the existing sidewalks along Hanover Street, Rock Street and Foundry Place and crosswalks are proposed for crossing Rock Street (two (2) locations), at the Hanover Street/Rock Street intersection and across Pearl Street.
- ADA-compliant wheelchair ramps should be provided at all pedestrian crossings to be constructed or modified in conjunction with the Project, including for crossing the Project site driveway, or the driveway should be designed so that the sidewalk crosses the driveway (i.e., pan-type drive).
- Signs and landscaping to be installed as a part of the Project within the intersection sight triangle areas should be designed and maintained so as not to restrict lines of sight.
- Snow accumulations (windrows) within sight triangle areas should be promptly removed where such accumulations would impede sightlines.
- Consideration should be given to providing electric vehicle (EV) charging stations for use by residents of the Project.

Transportation Demand Management

In an effort to encourage the use of alternative modes of transportation to single-occupant vehicles (SOVs), the following Transportation Demand Management (TDM) measures should be implemented as part of the Project:

- A transportation coordinator should be assigned for the Project, who may also have other duties and responsibilities, to coordinate the TDM program;
- A “welcome packet” should be provided to residents detailing available public transportation services, bicycle and walking alternatives, and other commuting options;
- A central maildrop should be provided within each building; and
- Secure bicycle parking should be provided at an appropriate location within the Project site, including exterior bicycle racks and interior weather protected bicycle parking.

With implementation of the aforementioned recommendations, safe and efficient access will be provided to the Project site and the Project can be accommodated within the confines of the existing transportation system.

⁹*Manual on Uniform Traffic Control Devices (MUTCD)*; Federal Highway Administration; Washington, D.C.; 2009.



ATTACHMENT

PROJECT SITE PLAN

AUTOMATIC TRAFFIC RECORDER COUNT DATA

MANUAL TURNING MOVEMENT COUNT DATA

SEASONAL ADJUSTMENT DATA

COVID-19 ADJUSTMENT DATA

VEHICLE TRAVEL SPEED DATA

TRANSIT INFORMATION

GENERAL BACKGROUND TRAFFIC GROWTH

BACKGROUND DEVELOPMENT TRAFFIC-VOLUME NETWORKS

TRIP-DISTRIBUTION

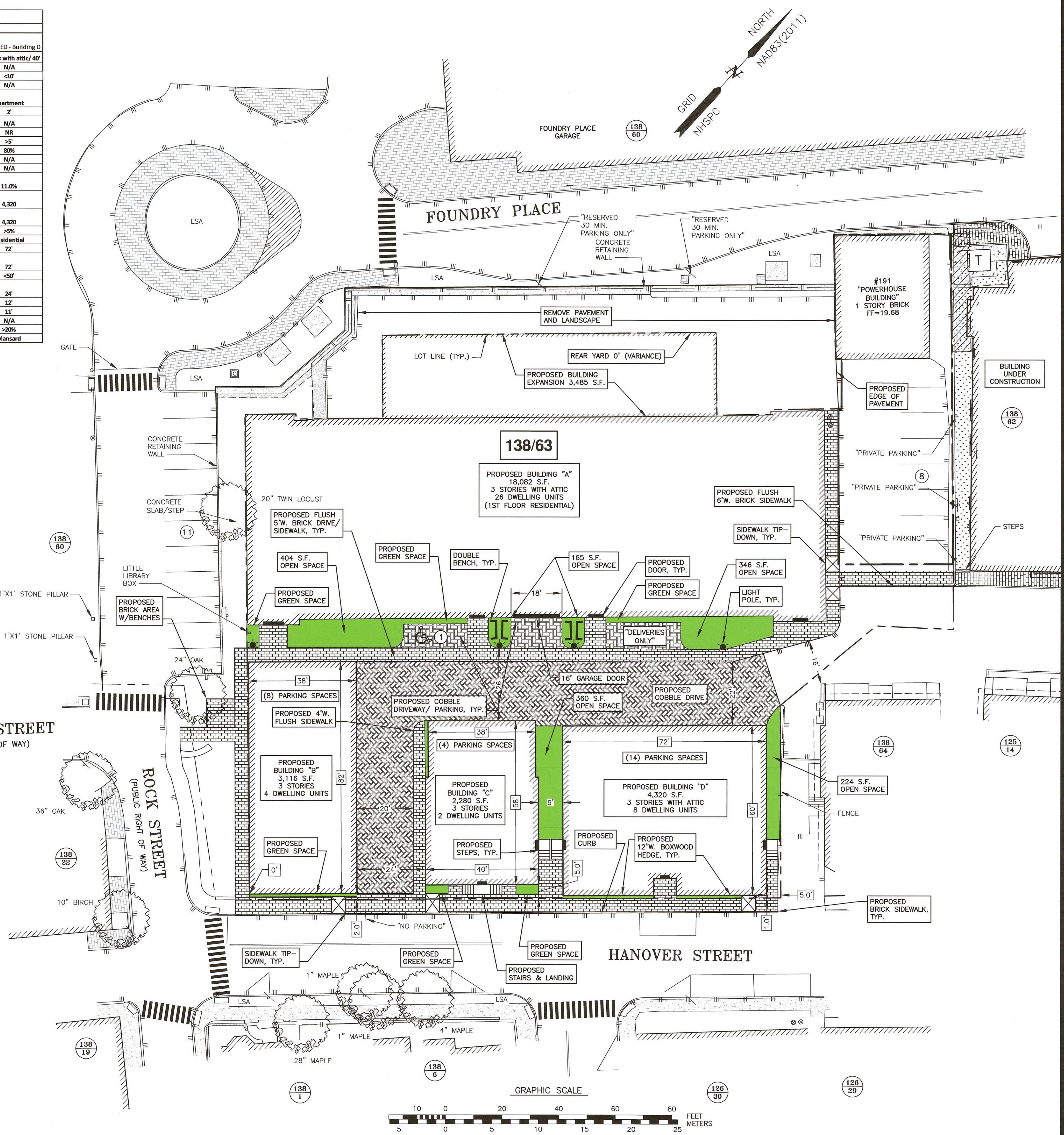
TRIP-GENERATION CALCULATIONS

CAPACITY ANALYSIS WORKSHEETS

PROJECT SITE PLAN

ZONING DEVELOPMENT STANDARD						
CDS: CHARACTER DISTRICT 5, DOD: DOWNTOWN OVERLAY DISTRICT						
	REQUIRED	EXISTING	PROPOSED - Building A	PROPOSED - Building B	PROPOSED - Building C	PROPOSED - Building D
Height	2-3 stories 40'	2 Stories/ 18' +/-	3 stories with attic/ 40'	3 stories / 36'	3 stories / 36'	3 stories with attic/ 40'
Penthouses	may exceed bldg height by 2'	N/A	N/A	N/A	N/A	N/A
Roof appurtenance	may exceed bldg height by 10'	<10'	<10'	No	No	<10'
Facade Types		N/A	N/A	N/A	N/A	N/A
Building Types	commercial, live-work, mixed use, flex space & community.	Commercial	Apartment	Rowhouse	Duplex	Apartment
Front (principle) max S/B	5	99'	99'	0'	5'	2'
Front (secondary) max S/B	5	0'	0'	2'	N/A	N/A
Side S/B	NR	NR	NR	NR	NR	NR
Rear yard S/B	5'	0'	0'	>5'	>5'	>5'
Front lotline buildout	80% min	100%	100%	80%	80%	80%
Lot area (sf)	NR	N/A	N/A	N/A	N/A	N/A
LOT area per dwelling	NR	N/A	N/A	N/A	N/A	N/A
Building coverage, maximum	95%	38%	47%	8%	6%	11.0%
Maximum building footprint	20,000	14,808	18,082	3,116	2,280	4,320
Ground floor area per use, max	15,000	14,808	<15,000	3,116	2,280	4,320
Open space, minimum	5%	<5%	>5%	>5%	>5%	>5%
Permitted uses		Commercial	Residential	Residential	Residential	Residential
Block length, max (ft)	225	205'	205'	82'	40'	72'
Facade modulation length, max (ft)	100	205	205	82'	40'	72'
Entrance spacing, max (ft)	50	>50'	50	20'	20'	<50'
Floor height above sidewalk, max	36"	0'	0'	24"	24"	24"
Ground story height, min	12'	10'	10.5'	12'	12'	12'
Second story height, min	10'	10'	10.5'	11'	11'	11'
Glazing, shopfront, min	70%	N/A	N/A	N/A	N/A	N/A
Glazing, other	20%-50%	>20%	>20%	>20%	>20%	>20%
Roof types	flat, gable, hip, gambrel, mansard	Flat	Mansard	Hip	Hip	Mansard

Shaded Boxes = Zoning Relief Required
S/B = Setback



- NOTES:**
- PARCEL IS SHOWN ON THE CITY OF PORTSMOUTH ASSESSOR'S MAP 138 AS LOT 63.
 - APPLICANT:
361 HANOVER STEAM FACTORY, LLC
41 INDUSTRIAL DRIVE UNIT 20
EXETER, N.H. 03833
 - PARCEL IS NOT IN A FLOOD HAZARD ZONE AS SHOWN ON FIRM PANEL 33015C0259F. JANUARY 29 2021.

PROPOSED LOT AREAS:
LOT 138/63
38,528 S.F. ±
0.8845 AC

LOT 138/63-1
4,717 S.F.
0.1083 AC

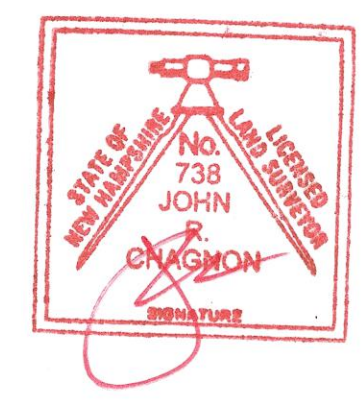
DIMENSIONAL REQUIREMENTS:
*SEE PORTSMOUTH ZONING ORDINANCE AND TABLE.

MINIMUM LOT AREA: NR
SETBACKS:
FRONT: 5 FEET (MAXIMUM)
SIDE: NR
REAR: 5 FEET
MAXIMUM BUILDING COVERAGE: 95%
MINIMUM OPEN SPACE: 5%

- THE PURPOSE OF THIS PLAN IS TO SHOW THE PROPOSED SITE DEVELOPMENT ON ASSESSOR'S MAP 138 LOT 63.
- VERTICAL DATUM IS NAVD88. BASIS OF VERTICAL DATUM IS REDUNDANT RTN GNSS OBSERVATIONS.
- PROPOSED USE: 40 RESIDENTIAL DWELLING UNITS.

**SITE REDEVELOPMENT
361 HANOVER STREET
PORTSMOUTH, N.H.**

NO.	DESCRIPTION	DATE
2	BUILDING STORIES, ZONING STD.	1/2/25
1	REVISED LAYOUT	7/3/24
0	ISSUED FOR COMMENT	6/12/24



SCALE: 1"=20' JANUARY 2024

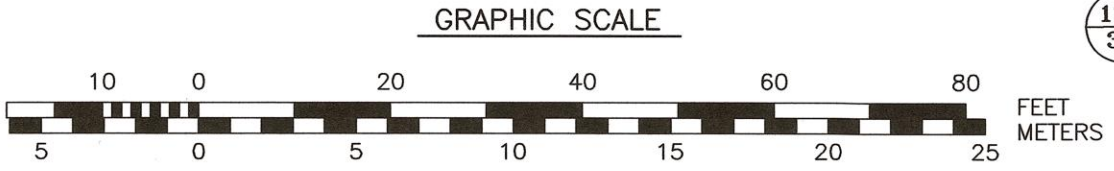
SITE PLAN **C3**

THIS SITE PLAN SHALL BE RECORDED IN THE ROCKINGHAM COUNTY REGISTRY OF DEEDS.

ALL IMPROVEMENTS SHOWN ON THIS SITE PLAN SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE PLAN BY THE PROPERTY OWNER AND ALL FUTURE PROPERTY OWNERS. NO CHANGES SHALL BE MADE TO THIS SITE PLAN WITHOUT THE EXPRESS APPROVAL OF THE PORTSMOUTH PLANNING DIRECTOR.

APPROVED BY THE PORTSMOUTH PLANNING BOARD

CHAIRMAN _____ DATE _____



AUTOMATIC TRAFFIC RECORDER COUNT DATA

Accurate Counts
978-664-2565

Location : Hanover Street
Location : East of Rock Street
City/State: Portsmouth, NH

Site Code: 10068001

8/6/2024 Time	WB,		Hour Totals		EB,		Hour Totals		Combined Totals	
	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
12:00	0	1			0	9				
12:15	0	0			0	9				
12:30	0	1			0	7				
12:45	0	1	0	3	0	10	0	35	0	38
1:00	0	0			1	10				
1:15	0	0			0	15				
1:30	0	1			0	5				
1:45	0	1	0	2	0	8	1	38	1	40
2:00	0	1			0	8				
2:15	0	3			0	8				
2:30	0	2			0	7				
2:45	0	0	0	6	0	9	0	32	0	38
3:00	0	0			0	8				
3:15	0	1			0	12				
3:30	0	0			0	5				
3:45	0	2	0	3	0	14	0	39	0	42
4:00	0	0			0	10				
4:15	1	0			1	12				
4:30	0	0			0	6				
4:45	0	3	1	3	0	11	1	39	2	42
5:00	0	0			1	11				
5:15	0	0			0	4				
5:30	0	2			0	4				
5:45	0	2	0	4	2	11	3	30	3	34
6:00	0	1			1	7				
6:15	0	0			4	2				
6:30	2	0			4	4				
6:45	0	0	2	1	3	1	12	14	14	15
7:00	0	1			5	6				
7:15	0	0			9	1				
7:30	0	1			4	1				
7:45	1	0	1	2	8	3	26	11	27	13
8:00	0	0			9	6				
8:15	0	0			12	1				
8:30	1	0			20	2				
8:45	0	0	1	0	9	0	50	9	51	9
9:00	0	0			8	3				
9:15	0	1			12	1				
9:30	0	0			8	1				
9:45	1	1	1	2	13	3	41	8	42	10
10:00	0	0			14	0				
10:15	2	1			8	1				
10:30	1	0			4	0				
10:45	0	0	3	1	10	0	36	1	39	2
11:00	0	0			4	0				
11:15	0	0			5	1				
11:30	2	0			12	0				
11:45	0	0	2	0	8	1	29	2	31	2
Total	11	27			199	258			210	285
Percent	28.9%	71.1%			43.5%	56.5%			42.4%	57.6%

Accurate Counts
978-664-2565

Location : Hanover Street
Location : East of Rock Street
City/State: Portsmouth, NH

Site Code: 10068001

8/7/2024 Time	WB,		Hour Totals		EB,		Hour Totals		Combined Totals	
	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
12:00	0	2			0	11				
12:15	0	3			0	11				
12:30	0	0			0	7				
12:45	0	3	0	8	0	7	0	36	0	44
1:00	0	0			1	6				
1:15	0	1			0	5				
1:30	0	1			0	5				
1:45	0	0	0	2	0	8	1	24	1	26
2:00	0	4			0	10				
2:15	0	0			0	7				
2:30	0	2			0	6				
2:45	0	2	0	8	0	11	0	34	0	42
3:00	0	1			0	9				
3:15	0	1			0	4				
3:30	0	3			0	9				
3:45	0	3	0	8	0	7	0	29	0	37
4:00	0	0			0	11				
4:15	1	0			2	13				
4:30	0	0			2	10				
4:45	0	1	1	1	1	8	5	42	6	43
5:00	0	0			1	10				
5:15	0	1			0	7				
5:30	0	2			1	4				
5:45	0	1	0	4	3	3	5	24	5	28
6:00	0	0			2	5				
6:15	0	1			4	4				
6:30	2	0			2	10				
6:45	1	0	3	1	4	3	12	22	15	23
7:00	2	0			3	3				
7:15	0	1			2	1				
7:30	2	0			9	3				
7:45	2	1	6	2	8	6	22	13	28	15
8:00	2	0			16	6				
8:15	0	2			11	2				
8:30	3	0			4	1				
8:45	2	0	7	2	8	0	39	9	46	11
9:00	3	0			14	2				
9:15	4	1			6	1				
9:30	1	0			9	2				
9:45	0	0	8	1	7	1	36	6	44	7
10:00	1	0			9	2				
10:15	2	0			7	0				
10:30	4	0			14	0				
10:45	1	0	8	0	6	0	36	2	44	2
11:00	1	0			10	0				
11:15	3	0			10	1				
11:30	2	0			13	0				
11:45	0	0	6	0	4	0	37	1	43	1
Total	39	37			193	242			232	279
Percent	51.3%	48.7%			44.4%	55.6%			45.4%	54.6%
Grand Total	50	64			392	500			442	564
Percent	43.9%	56.1%			43.9%	56.1%			43.9%	56.1%

ADT

ADT: 503

AADT: 503

Accurate Counts
978-664-2565

Location : Hanover Street
Location : East of Rock Street
City/State: Portsmouth, NH

Site Code: 10068001

8/5/2024 Time	Monday		Tuesday		Wednesday		Thursday		Friday		Saturday		Sunday		Week Average	
	WB,	EB,	WB,	EB,	WB,	EB,	WB,	EB,	WB,	EB,	WB,	EB,	WB,	EB,	WB,	EB,
12:00 AM	*	*	0	0	0	0	*	*	*	*	*	*	*	*	0	0
1:00	*	*	0	1	0	1	*	*	*	*	*	*	*	*	0	1
2:00	*	*	0	0	0	0	*	*	*	*	*	*	*	*	0	0
3:00	*	*	0	0	0	0	*	*	*	*	*	*	*	*	0	0
4:00	*	*	1	1	1	5	*	*	*	*	*	*	*	*	1	3
5:00	*	*	0	3	0	5	*	*	*	*	*	*	*	*	0	4
6:00	*	*	2	12	3	12	*	*	*	*	*	*	*	*	2	12
7:00	*	*	1	26	6	22	*	*	*	*	*	*	*	*	4	24
8:00	*	*	1	50	7	39	*	*	*	*	*	*	*	*	4	44
9:00	*	*	1	41	8	36	*	*	*	*	*	*	*	*	4	38
10:00	*	*	3	36	8	36	*	*	*	*	*	*	*	*	6	36
11:00	*	*	2	29	6	37	*	*	*	*	*	*	*	*	4	33
12:00 PM	*	*	3	35	8	36	*	*	*	*	*	*	*	*	6	36
1:00	*	*	2	38	2	24	*	*	*	*	*	*	*	*	2	31
2:00	*	*	6	32	8	34	*	*	*	*	*	*	*	*	7	33
3:00	*	*	3	39	8	29	*	*	*	*	*	*	*	*	6	34
4:00	*	*	3	39	1	42	*	*	*	*	*	*	*	*	2	40
5:00	*	*	4	30	4	24	*	*	*	*	*	*	*	*	4	27
6:00	*	*	1	14	1	22	*	*	*	*	*	*	*	*	1	18
7:00	*	*	2	11	2	13	*	*	*	*	*	*	*	*	2	12
8:00	*	*	0	9	2	9	*	*	*	*	*	*	*	*	1	9
9:00	*	*	2	8	1	6	*	*	*	*	*	*	*	*	2	7
10:00	*	*	1	1	0	2	*	*	*	*	*	*	*	*	0	2
11:00	*	*	0	2	0	1	*	*	*	*	*	*	*	*	0	2
Total	0	0	38	457	76	435	0	0	0	0	0	0	0	58	446	
Day	0		495		511		0		0		0		0	504		
AM Peak			10:00	8:00	9:00	8:00								10:00	8:00	
Volume			3	50	8	39								6	44	
PM Peak			2:00	3:00	12:00 PM	4:00								2:00	4:00	
Volume			6	39	8	42								7	40	
Comb Total	0		495		511		0		0		0		0	504		
ADT	ADT: 503		AADT: 503													

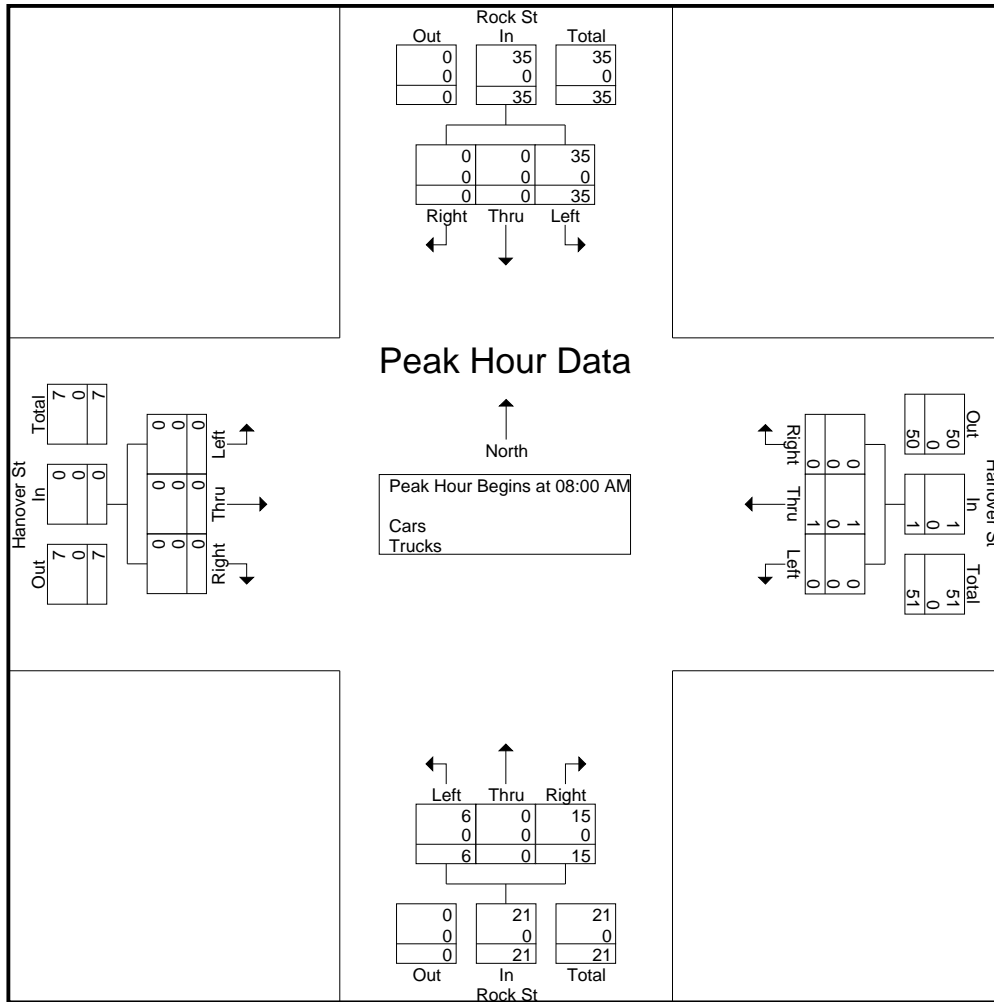
MANUAL TURNING MOVEMENT COUNT DATA

Accurate Counts

978-664-2565

N/S Street : Rock Street
 E/W Street : Hanover Street
 City/State : Portsmouth, NH
 Weather : Rain / Cloudy

File Name : 10068001
 Site Code : 10068001
 Start Date : 8/6/2024
 Page No : 2



Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

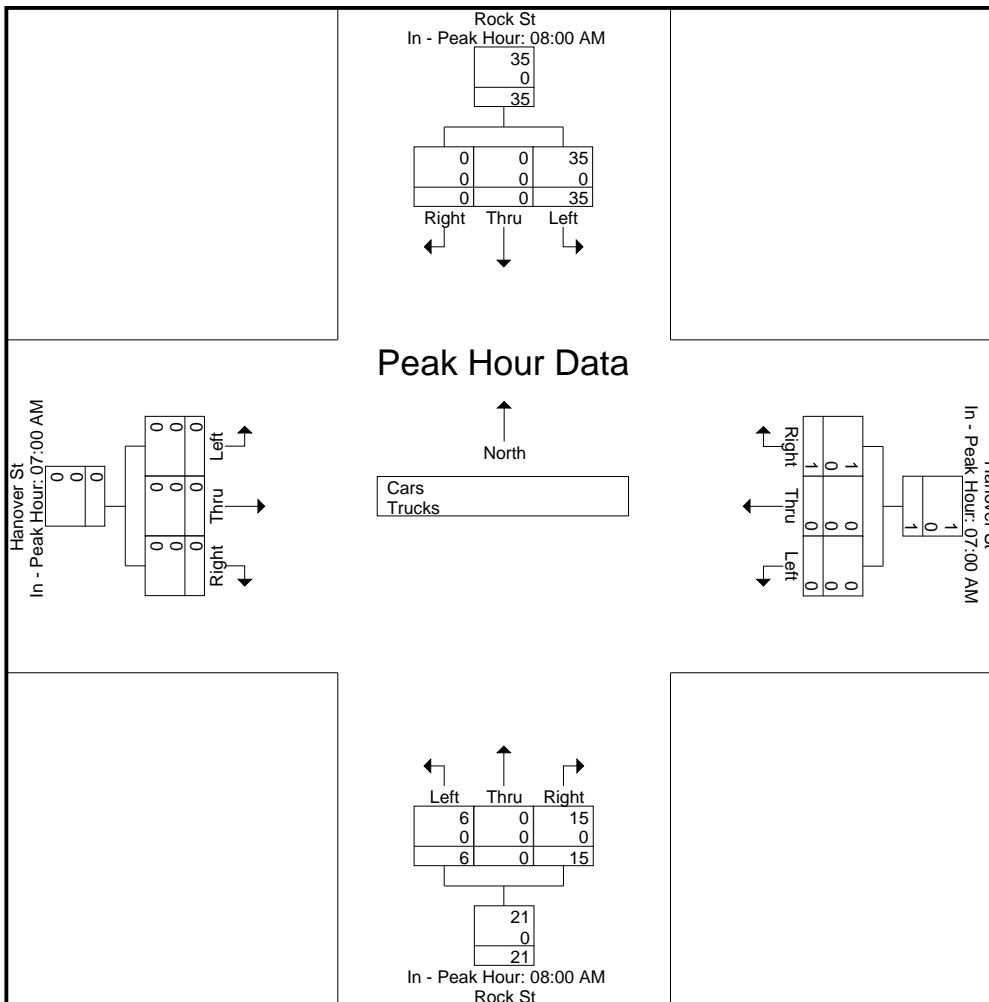
	08:00 AM				07:00 AM				08:00 AM				07:00 AM			
+0 mins.	5	0	0	5	0	0	0	0	1	0	3	4	0	0	0	0
+15 mins.	8	0	0	8	0	0	0	0	2	0	3	5	0	0	0	0
+30 mins.	12	0	0	12	0	0	0	0	2	0	4	6	0	0	0	0
+45 mins.	10	0	0	10	0	0	1	1	1	0	5	6	0	0	0	0
Total Volume	35	0	0	35	0	0	1	1	6	0	15	21	0	0	0	0
% App. Total	100	0	0		0	0	100		28.6	0	71.4		0	0	0	
PHF	.729	.000	.000	.729	.000	.000	.250	.250	.750	.000	.750	.875	.000	.000	.000	.000
Cars	35	0	0	35	0	0	1	1	6	0	15	21	0	0	0	0
% Cars	100	0	0	100	0	0	100	100	100	0	100	100	0	0	0	0
Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Accurate Counts

978-664-2565

N/S Street : Rock Street
 E/W Street : Hanover Street
 City/State : Portsmouth, NH
 Weather : Rain / Cloudy

File Name : 10068001
 Site Code : 10068001
 Start Date : 8/6/2024
 Page No : 3



Accurate Counts

978-664-2565

N/S Street : Rock Street
 E/W Street : Hanover Street
 City/State : Portsmouth, NH
 Weather : Rain / Cloudy

File Name : 10068001
 Site Code : 10068001
 Start Date : 8/6/2024
 Page No : 4

Groups Printed- Cars

Start Time	Rock St From North			Hanover St From East			Rock St From South			Hanover St From West			Int. Total
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
07:00 AM	3	0	0	0	0	0	0	0	1	0	0	0	4
07:15 AM	4	0	0	0	0	0	1	0	2	0	0	0	7
07:30 AM	6	0	0	0	0	0	0	0	1	0	0	0	7
07:45 AM	6	0	2	0	0	1	2	0	2	0	0	0	13
Total	19	0	2	0	0	1	3	0	6	0	0	0	31
08:00 AM	5	0	0	0	0	0	1	0	3	0	0	0	9
08:15 AM	8	0	0	0	0	0	2	0	3	0	0	0	13
08:30 AM	12	0	0	0	0	0	2	0	4	0	0	0	18
08:45 AM	10	0	0	0	1	0	1	0	5	0	0	0	17
Total	35	0	0	0	1	0	6	0	15	0	0	0	57
Grand Total	54	0	2	0	1	1	9	0	21	0	0	0	88
Apprch %	96.4	0	3.6	0	50	50	30	0	70	0	0	0	
Total %	61.4	0	2.3	0	1.1	1.1	10.2	0	23.9	0	0	0	

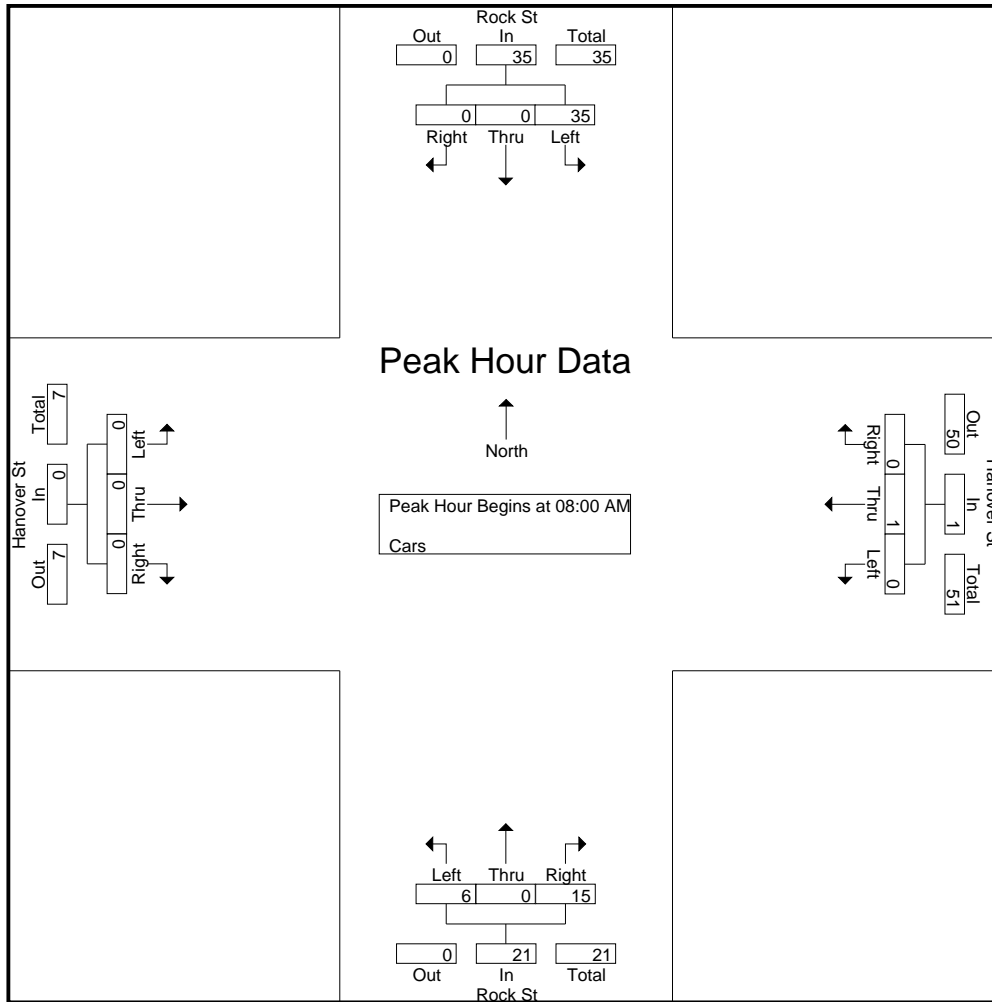
Start Time	Rock St From North				Hanover St From East				Rock St From South				Hanover St From West				Int. Total
	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 08:00 AM																	
08:00 AM	5	0	0	5	0	0	0	0	1	0	3	4	0	0	0	0	9
08:15 AM	8	0	0	8	0	0	0	0	2	0	3	5	0	0	0	0	13
08:30 AM	12	0	0	12	0	0	0	0	2	0	4	6	0	0	0	0	18
08:45 AM	10	0	0	10	0	1	0	1	1	0	5	6	0	0	0	0	17
Total Volume	35	0	0	35	0	1	0	1	6	0	15	21	0	0	0	0	57
% App. Total	100	0	0		0	100	0		28.6	0	71.4		0	0	0		
PHF	.729	.000	.000	.729	.000	.250	.000	.250	.750	.000	.750	.875	.000	.000	.000	.000	.792

Accurate Counts

978-664-2565

N/S Street : Rock Street
 E/W Street : Hanover Street
 City/State : Portsmouth, NH
 Weather : Rain / Cloudy

File Name : 10068001
 Site Code : 10068001
 Start Date : 8/6/2024
 Page No : 5



Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	08:00 AM				07:00 AM				08:00 AM				07:00 AM			
+0 mins.	5	0	0	5	0	0	0	0	1	0	3	4	0	0	0	0
+15 mins.	8	0	0	8	0	0	0	0	2	0	3	5	0	0	0	0
+30 mins.	12	0	0	12	0	0	0	0	2	0	4	6	0	0	0	0
+45 mins.	10	0	0	10	0	0	1	1	1	0	5	6	0	0	0	0
Total Volume	35	0	0	35	0	0	1	1	6	0	15	21	0	0	0	0
% App. Total	100	0	0		0	0	100		28.6	0	71.4		0	0	0	
PHF	.729	.000	.000	.729	.000	.000	.250	.250	.750	.000	.750	.875	.000	.000	.000	.000

Accurate Counts

978-664-2565

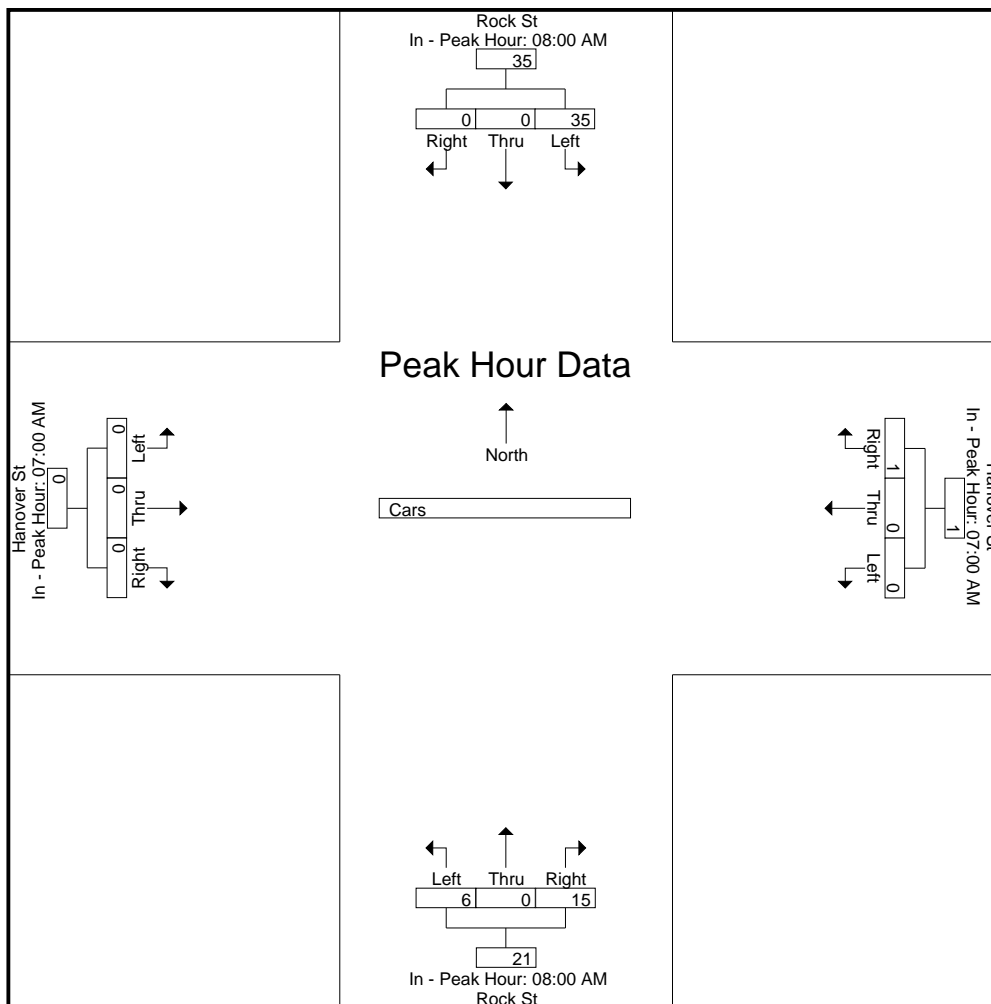
File Name : 10068001

Site Code : 10068001

Start Date : 8/6/2024

Page No : 6

N/S Street : Rock Street
 E/W Street : Hanover Street
 City/State : Portsmouth, NH
 Weather : Rain / Cloudy

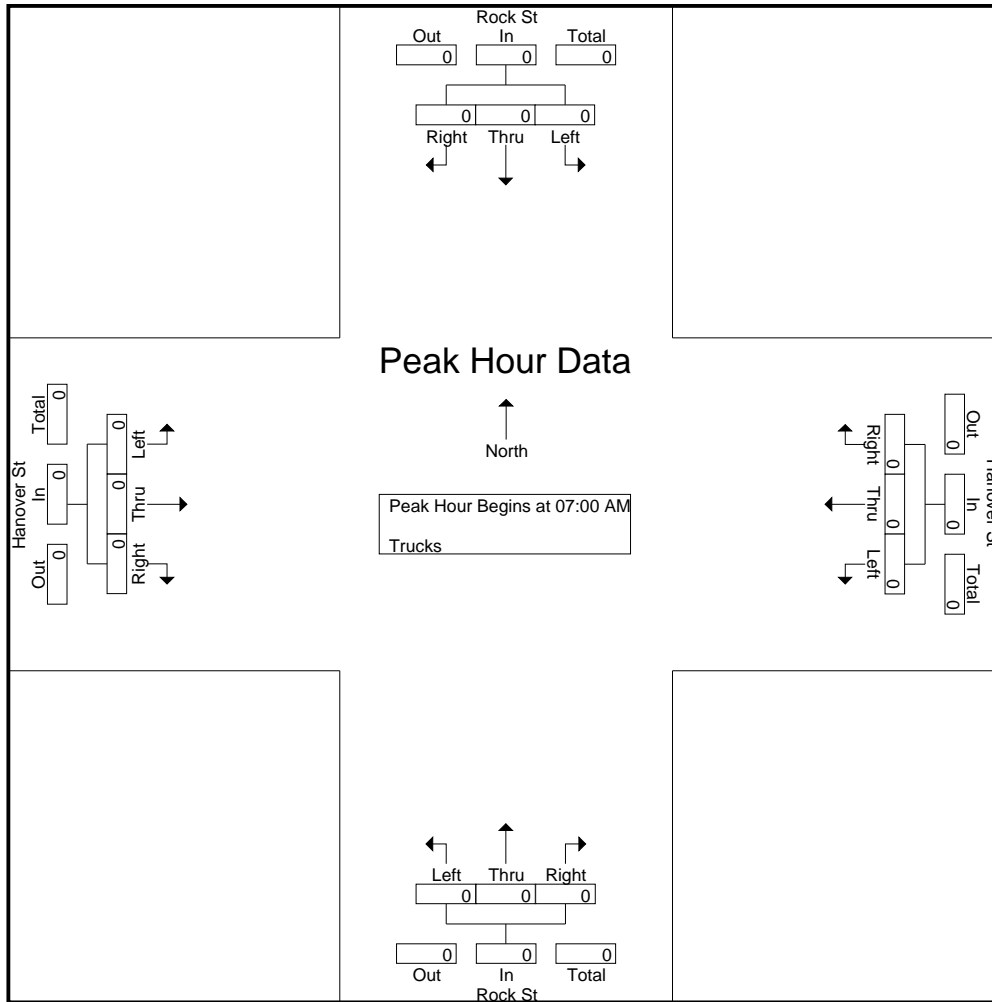


Accurate Counts

978-664-2565

N/S Street : Rock Street
 E/W Street : Hanover Street
 City/State : Portsmouth, NH
 Weather : Rain / Cloudy

File Name : 10068001
 Site Code : 10068001
 Start Date : 8/6/2024
 Page No : 8



Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	07:00 AM				07:00 AM				07:00 AM				07:00 AM			
+0 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

Accurate Counts

978-664-2565

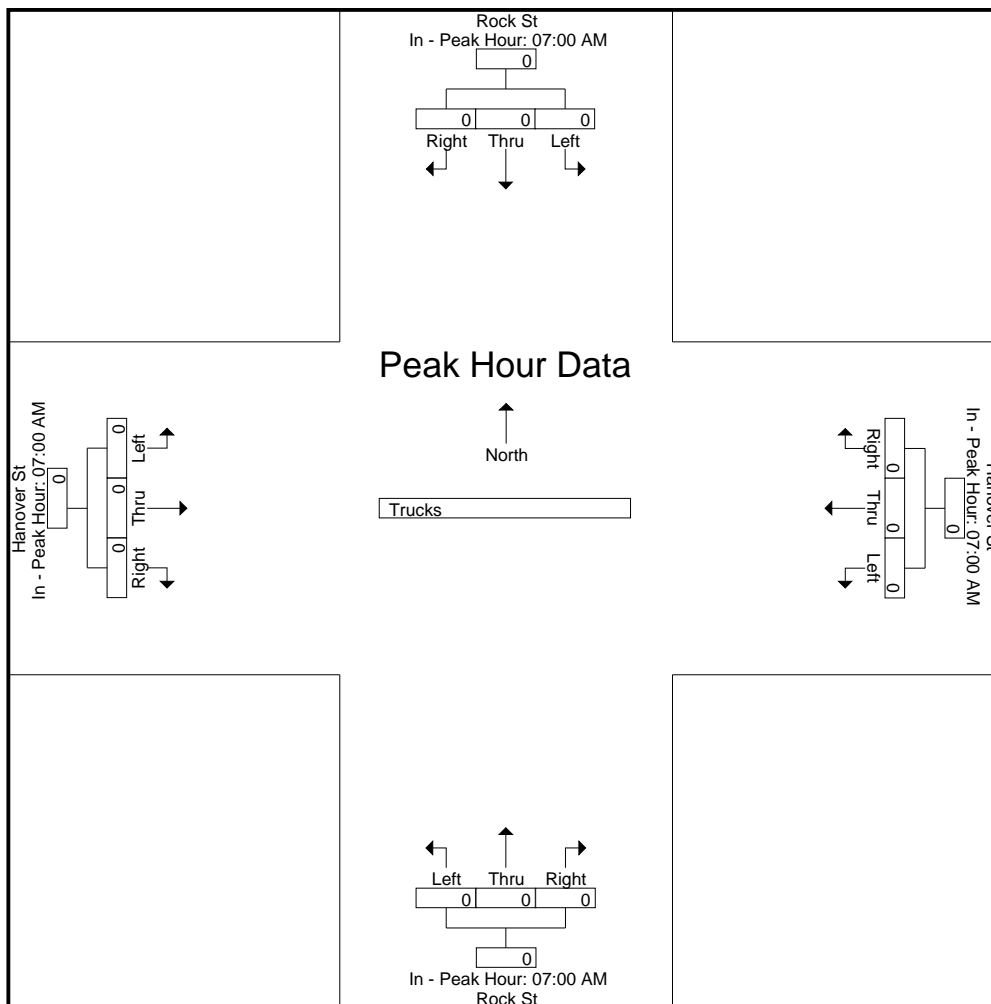
File Name : 10068001

Site Code : 10068001

Start Date : 8/6/2024

Page No : 9

N/S Street : Rock Street
E/W Street : Hanover Street
City/State : Portsmouth, NH
Weather : Rain / Cloudy



Accurate Counts

978-664-2565

N/S Street : Rock Street
 E/W Street : Hanover Street
 City/State : Portsmouth, NH
 Weather : Rain / Cloudy

File Name : 10068001
 Site Code : 10068001
 Start Date : 8/6/2024
 Page No : 10

Groups Printed- Bikes Peds

Start Time	Rock St From North				Hanover St From East				Rock St From South				Hanover St From West				Exclu. Total	Inclu. Total	Int. Total
	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds			
07:00 AM	0	0	0	2	0	0	0	0	0	0	0	2	0	0	0	2	6	0	6
07:15 AM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	1
07:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
Total	0	0	0	3	0	0	0	0	0	0	0	3	0	0	0	2	8	0	8
08:00 AM	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	2	0	2
08:15 AM	0	0	0	0	0	0	0	2	0	0	0	1	0	0	0	0	3	0	3
08:30 AM	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	1	10	0	10
08:45 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	1	2
Total	0	0	0	1	0	1	0	3	0	0	0	10	0	0	0	2	16	1	17
Grand Total	0	0	0	4	0	1	0	3	0	0	0	13	0	0	0	4	24	1	25
Apprch %	0	0	0		0	100	0		0	0	0		0	0	0				
Total %	0	0	0		0	100	0		0	0	0		0	0	0		96	4	

Start Time	Rock St From North				Hanover St From East				Rock St From South				Hanover St From West				Int. Total	
	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total		
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																		
Peak Hour for Entire Intersection Begins at 08:00 AM																		
08:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:45 AM	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	1
Total Volume	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	1
% App. Total	0	0	0		0	100	0		0	0	0		0	0	0			
PHF	.000	.000	.000	.000	.000	.250	.000	.250	.000	.000	.000	.000	.000	.000	.000	.000	.000	.250

Accurate Counts

978-664-2565

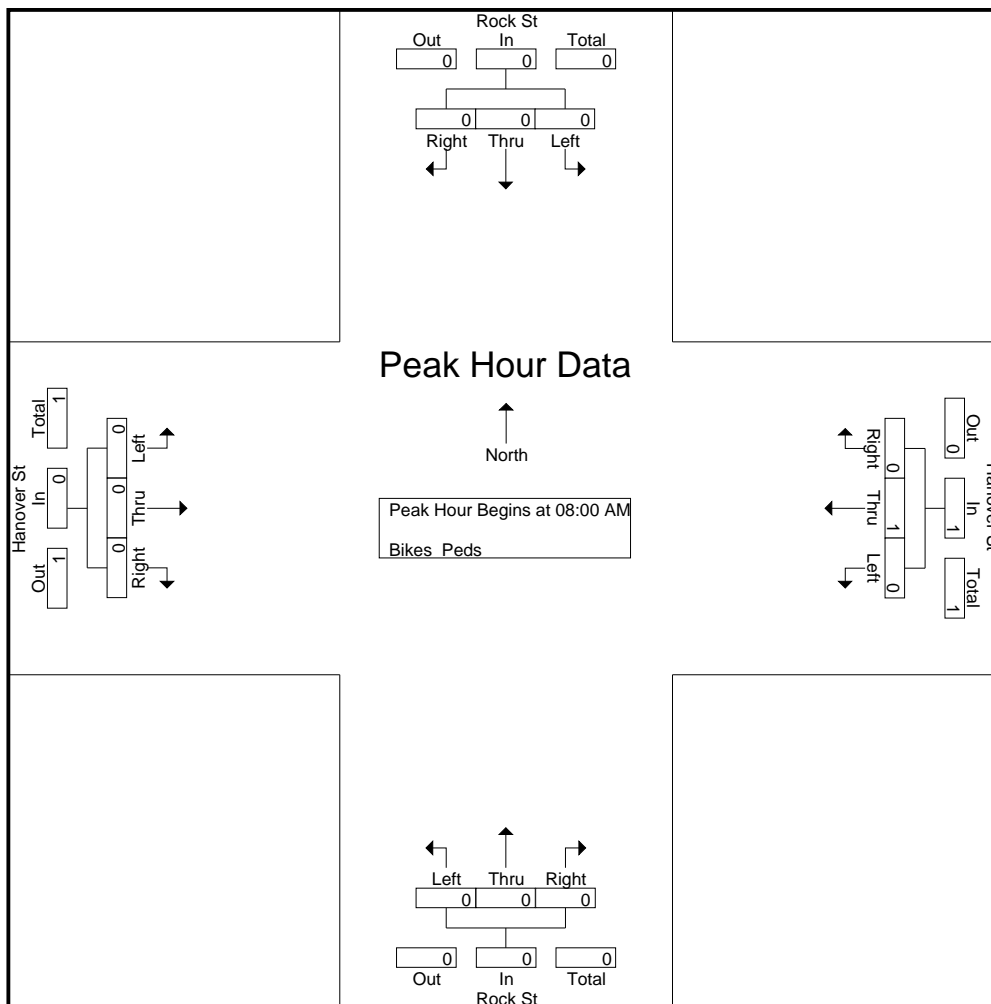
File Name : 10068001

Site Code : 10068001

Start Date : 8/6/2024

Page No : 11

N/S Street : Rock Street
 E/W Street : Hanover Street
 City/State : Portsmouth, NH
 Weather : Rain / Cloudy



Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	07:00 AM				08:00 AM				07:00 AM				07:00 AM			
+0 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0
% App. Total	0	0	0	0	0	100	0	100	0	0	0	0	0	0	0	0
PHF	.000	.000	.000	.000	.000	.250	.000	.250	.000	.000	.000	.000	.000	.000	.000	.000

Accurate Counts

978-664-2565

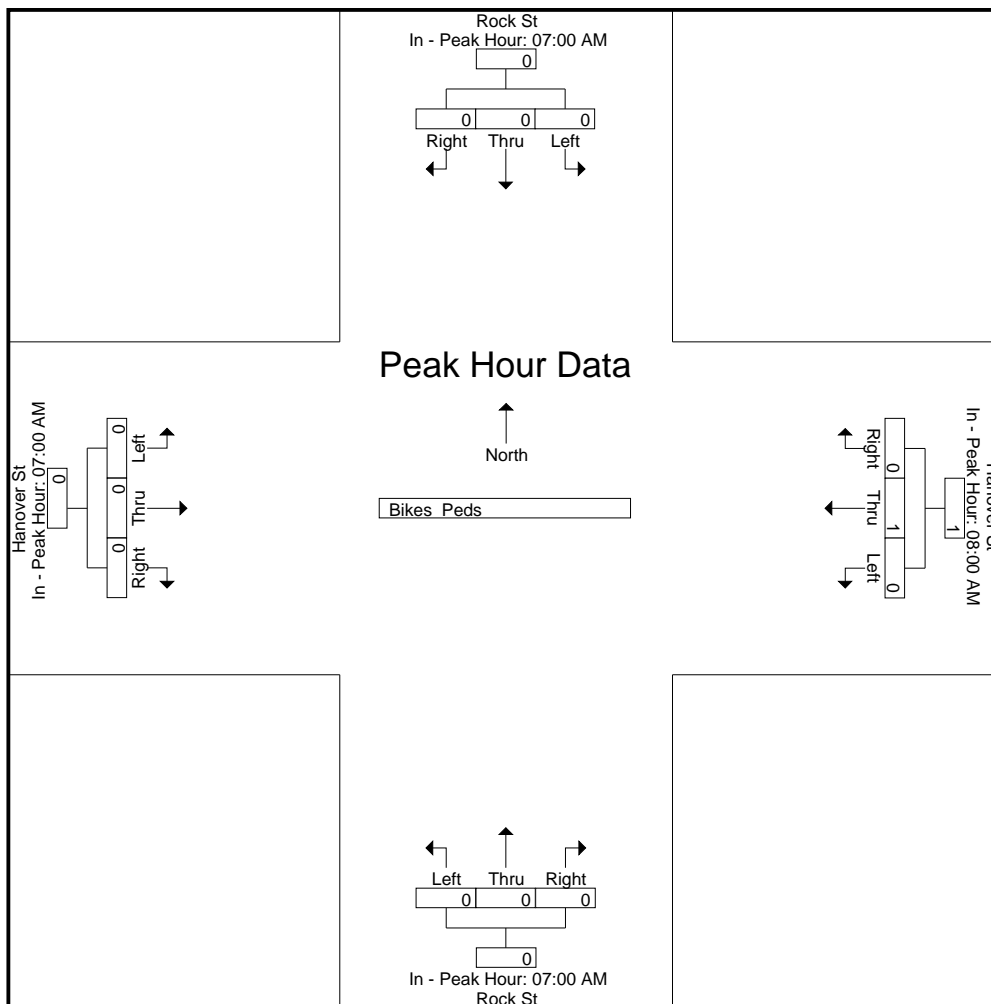
File Name : 10068001

Site Code : 10068001

Start Date : 8/6/2024

Page No : 12

N/S Street : Rock Street
E/W Street : Hanover Street
City/State : Portsmouth, NH
Weather : Rain / Cloudy

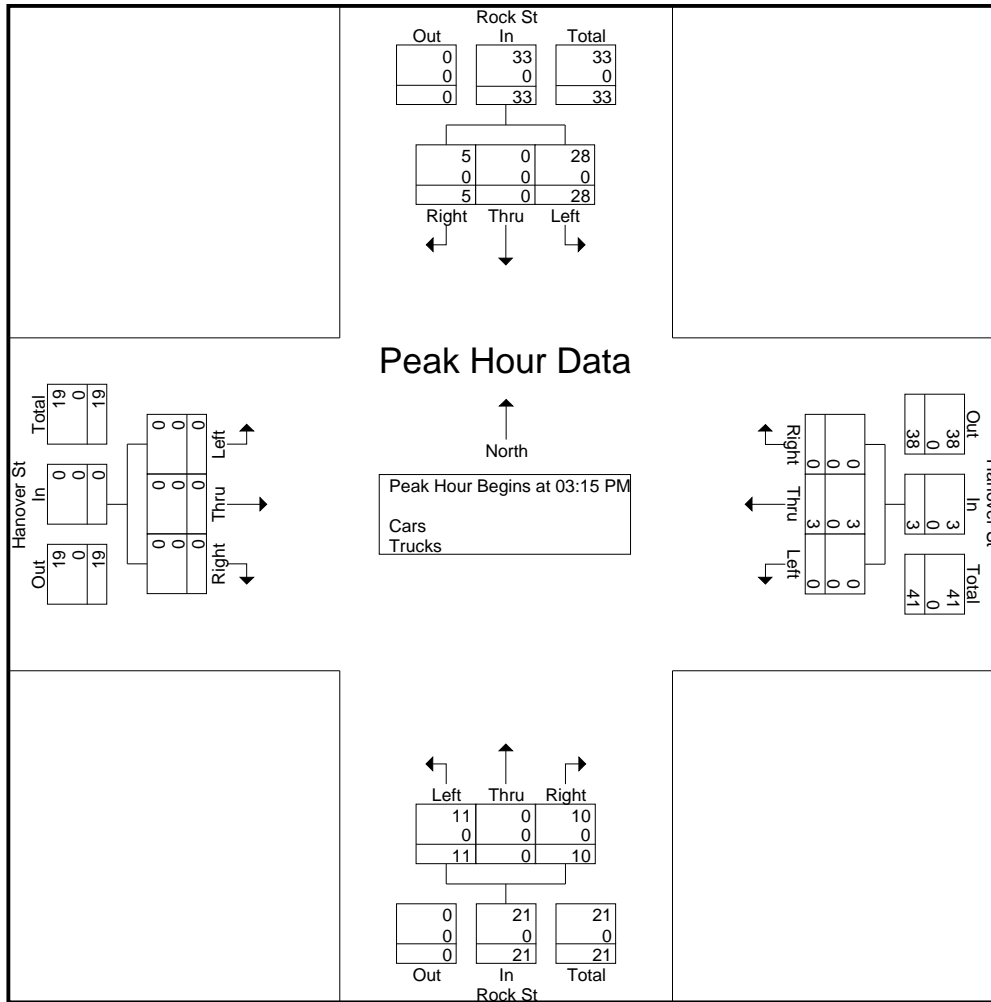


Accurate Counts

978-664-2565

N/S Street : Rock Street
 E/W Street : Hanover Street
 City/State : Portsmouth, NH
 Weather : Rain / Cloudy

File Name : 10068001
 Site Code : 10068001
 Start Date : 8/6/2024
 Page No : 2



Peak Hour Analysis From 03:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	03:45 PM				03:00 PM				03:15 PM				03:00 PM			
+0 mins.	9	0	0	9	0	1	0	1	6	0	3	9	0	0	0	0
+15 mins.	7	0	2	9	0	1	0	1	1	0	1	2	0	0	0	0
+30 mins.	12	0	0	12	0	0	0	0	1	0	3	4	0	0	0	0
+45 mins.	5	0	0	5	0	2	0	2	3	0	3	6	0	0	0	0
Total Volume	33	0	2	35	0	4	0	4	11	0	10	21	0	0	0	0
% App. Total	94.3	0	5.7		0	100	0		52.4	0	47.6		0	0	0	
PHF	.688	.000	.250	.729	.000	.500	.000	.500	.458	.000	.833	.583	.000	.000	.000	.000
Cars	33	0	2	35	0	4	0	4	11	0	10	21	0	0	0	0
% Cars	100	0	100	100	0	100	0	100	100	0	100	100	0	0	0	0
Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Accurate Counts

978-664-2565

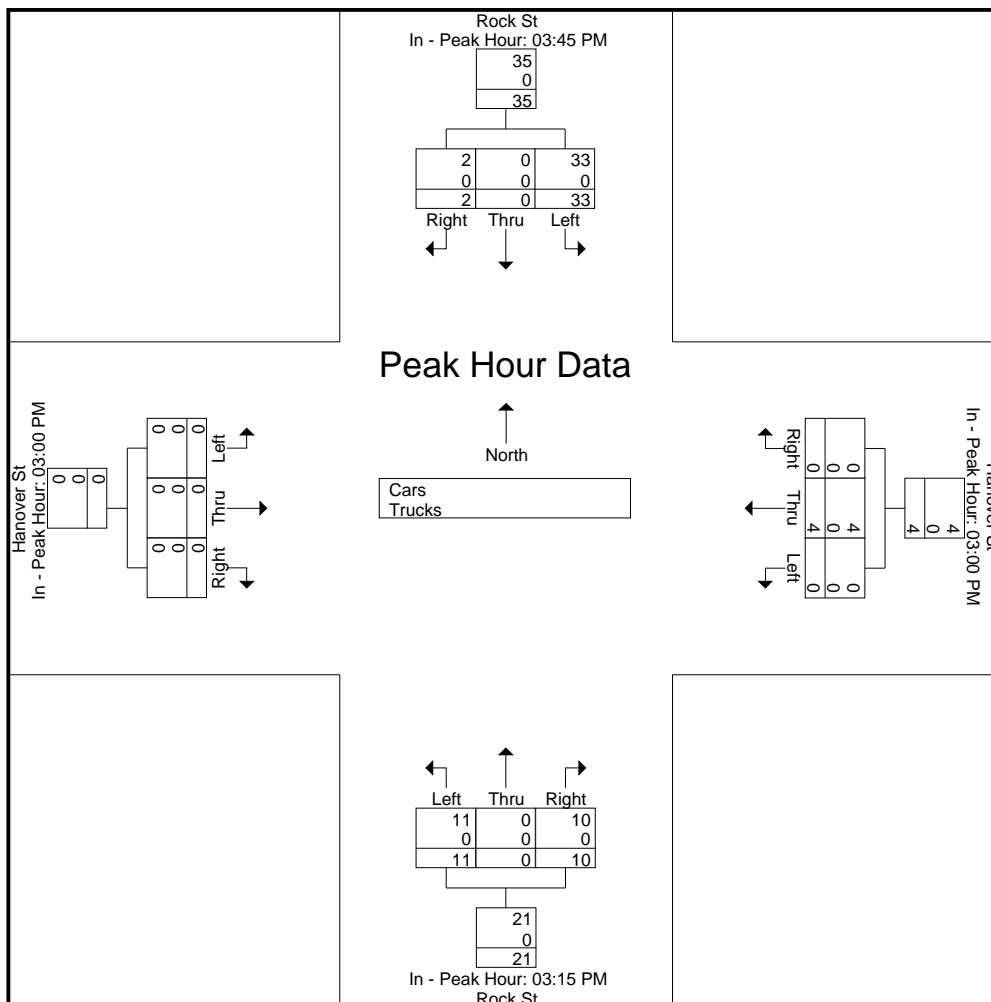
File Name : 10068001

Site Code : 10068001

Start Date : 8/6/2024

Page No : 3

N/S Street : Rock Street
 E/W Street : Hanover Street
 City/State : Portsmouth, NH
 Weather : Rain / Cloudy



Accurate Counts

978-664-2565

N/S Street : Rock Street
 E/W Street : Hanover Street
 City/State : Portsmouth, NH
 Weather : Rain / Cloudy

File Name : 10068001
 Site Code : 10068001
 Start Date : 8/6/2024
 Page No : 4

Groups Printed- Cars

Start Time	Rock St From North			Hanover St From East			Rock St From South			Hanover St From West			Int. Total
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
03:00 PM	8	0	0	0	1	0	1	0	1	0	0	0	11
03:15 PM	9	0	2	0	1	0	6	0	3	0	0	0	21
03:30 PM	3	0	1	0	0	0	1	0	1	0	0	0	6
03:45 PM	9	0	0	0	2	0	1	0	3	0	0	0	15
Total	29	0	3	0	4	0	9	0	8	0	0	0	53
04:00 PM	7	0	2	0	0	0	3	0	3	0	0	0	15
04:15 PM	12	0	0	1	0	0	0	1	1	0	0	0	15
04:30 PM	5	0	0	0	0	0	1	1	3	0	0	0	10
04:45 PM	6	0	1	0	2	1	2	1	1	0	0	0	14
Total	30	0	3	1	2	1	6	3	8	0	0	0	54
05:00 PM	10	0	0	0	0	0	2	0	1	0	0	0	13
05:15 PM	4	0	0	0	0	0	0	1	0	0	0	0	5
05:30 PM	5	0	0	0	0	1	3	1	1	0	0	0	11
05:45 PM	6	0	0	0	3	0	1	0	1	0	0	0	11
Total	25	0	0	0	3	1	6	2	3	0	0	0	40
Grand Total	84	0	6	1	9	2	21	5	19	0	0	0	147
Apprch %	93.3	0	6.7	8.3	75	16.7	46.7	11.1	42.2	0	0	0	
Total %	57.1	0	4.1	0.7	6.1	1.4	14.3	3.4	12.9	0	0	0	

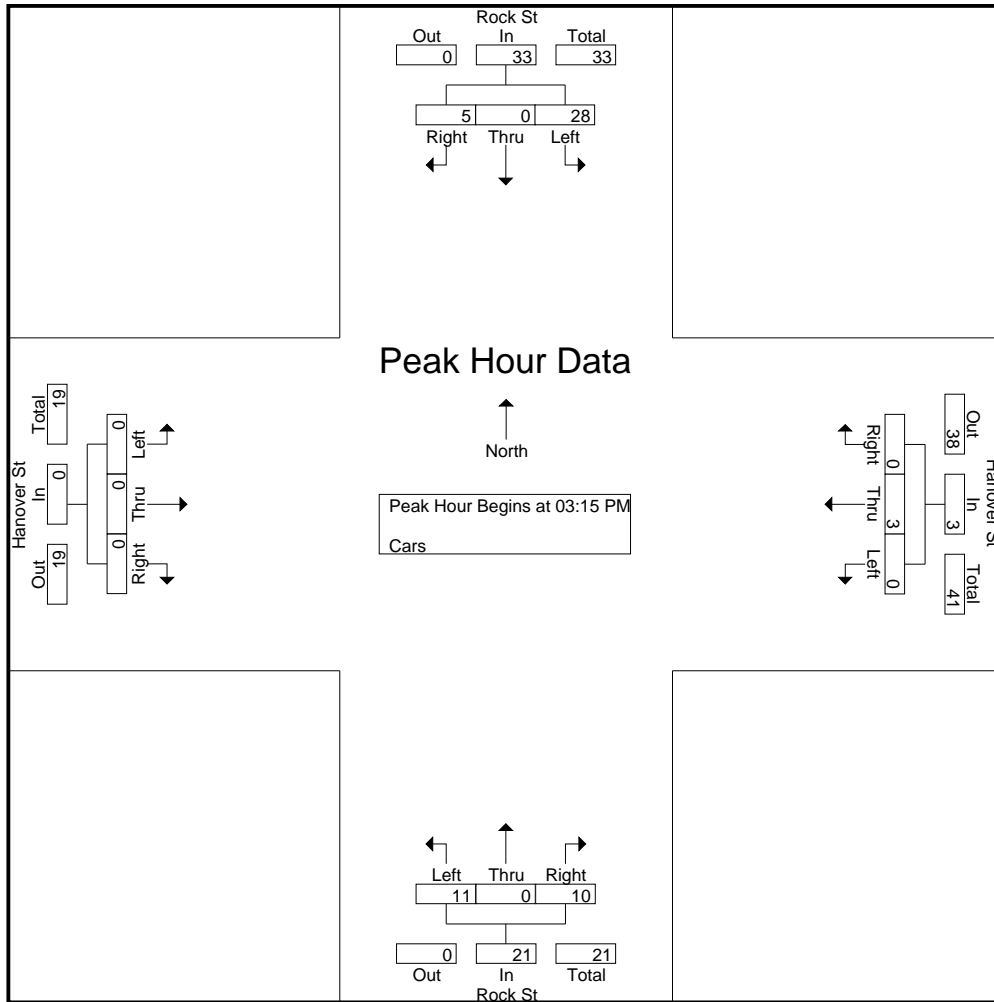
Start Time	Rock St From North				Hanover St From East				Rock St From South				Hanover St From West				Int. Total
	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	
Peak Hour Analysis From 03:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 03:15 PM																	
03:15 PM	9	0	2	11	0	1	0	1	6	0	3	9	0	0	0	0	21
03:30 PM	3	0	1	4	0	0	0	0	1	0	1	2	0	0	0	0	6
03:45 PM	9	0	0	9	0	2	0	2	1	0	3	4	0	0	0	0	15
04:00 PM	7	0	2	9	0	0	0	0	3	0	3	6	0	0	0	0	15
Total Volume	28	0	5	33	0	3	0	3	11	0	10	21	0	0	0	0	57
% App. Total	84.8	0	15.2		0	100	0		52.4	0	47.6		0	0	0		
PHF	.778	.000	.625	.750	.000	.375	.000	.375	.458	.000	.833	.583	.000	.000	.000	.000	.679

Accurate Counts

978-664-2565

N/S Street : Rock Street
 E/W Street : Hanover Street
 City/State : Portsmouth, NH
 Weather : Rain / Cloudy

File Name : 10068001
 Site Code : 10068001
 Start Date : 8/6/2024
 Page No : 5



Peak Hour Analysis From 03:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	03:45 PM				03:00 PM				03:15 PM				03:00 PM			
+0 mins.	9	0	0	9	0	1	0	1	6	0	3	9	0	0	0	0
+15 mins.	7	0	2	9	0	1	0	1	1	0	1	2	0	0	0	0
+30 mins.	12	0	0	12	0	0	0	0	1	0	3	4	0	0	0	0
+45 mins.	5	0	0	5	0	2	0	2	3	0	3	6	0	0	0	0
Total Volume	33	0	2	35	0	4	0	4	11	0	10	21	0	0	0	0
% App. Total	94.3	0	5.7		0	100	0		52.4	0	47.6		0	0	0	
PHF	.688	.000	.250	.729	.000	.500	.000	.500	.458	.000	.833	.583	.000	.000	.000	.000

Accurate Counts

978-664-2565

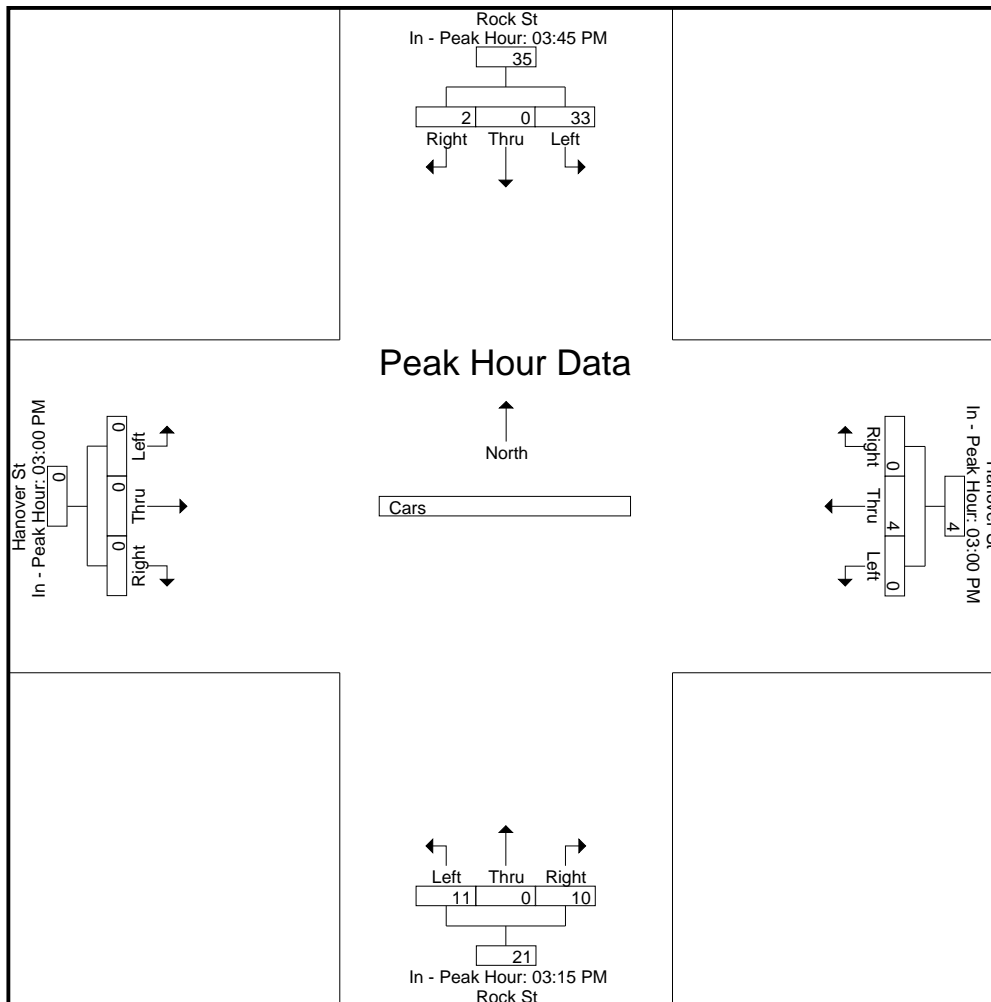
File Name : 10068001

Site Code : 10068001

Start Date : 8/6/2024

Page No : 6

N/S Street : Rock Street
E/W Street : Hanover Street
City/State : Portsmouth, NH
Weather : Rain / Cloudy



Accurate Counts

978-664-2565

N/S Street : Rock Street
 E/W Street : Hanover Street
 City/State : Portsmouth, NH
 Weather : Rain / Cloudy

File Name : 10068001
 Site Code : 10068001
 Start Date : 8/6/2024
 Page No : 7

Groups Printed- Trucks

Start Time	Rock St From North			Hanover St From East			Rock St From South			Hanover St From West			Int. Total
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
03:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
03:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
03:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
03:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	0	0	0	0	0	0	0
Apprch %	0	0	0	0	0	0	0	0	0	0	0	0	
Total %													

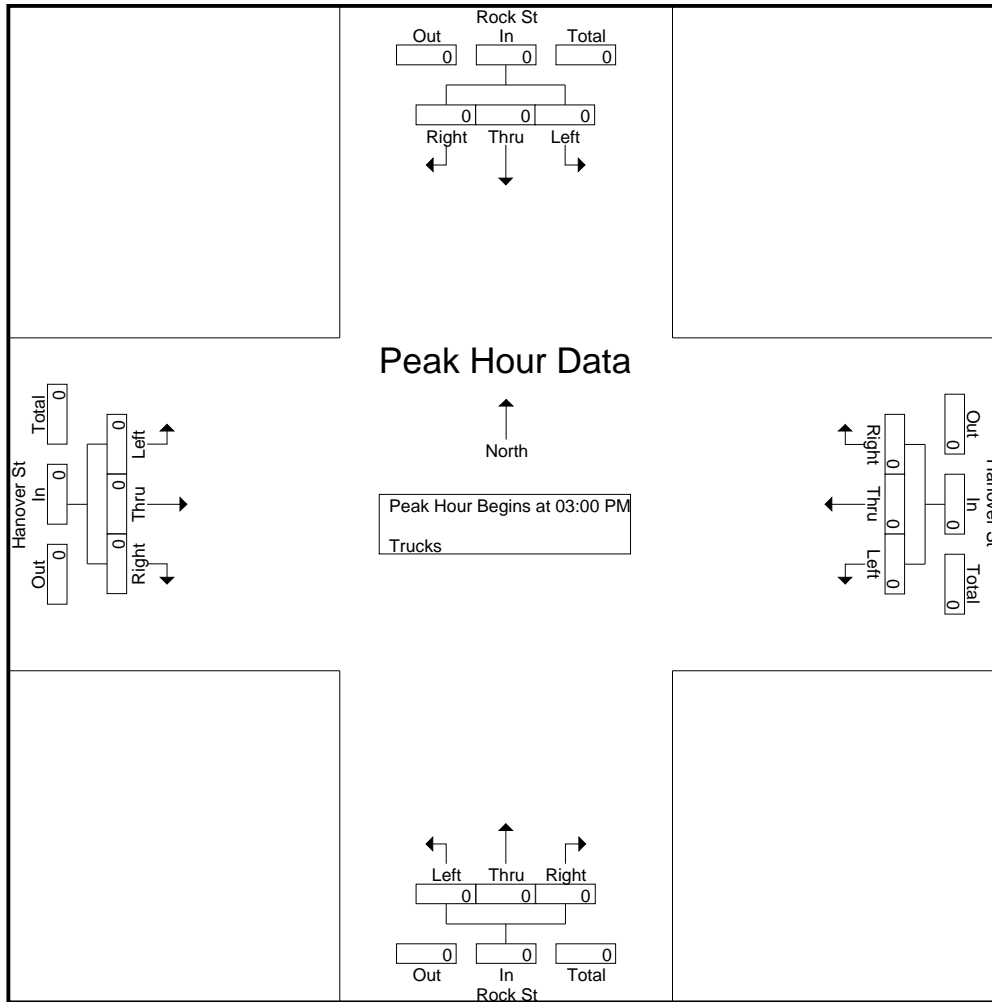
Start Time	Rock St From North				Hanover St From East				Rock St From South				Hanover St From West				Int. Total
	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	
Peak Hour Analysis From 03:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 03:00 PM																	
03:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0	0		0	0	0		0	0	0		0	0	0		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

Accurate Counts

978-664-2565

N/S Street : Rock Street
 E/W Street : Hanover Street
 City/State : Portsmouth, NH
 Weather : Rain / Cloudy

File Name : 10068001
 Site Code : 10068001
 Start Date : 8/6/2024
 Page No : 8



Peak Hour Analysis From 03:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	03:00 PM				03:00 PM				03:00 PM				03:00 PM			
+0 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

Accurate Counts

978-664-2565

File Name : 10068001

Site Code : 10068001

Start Date : 8/6/2024

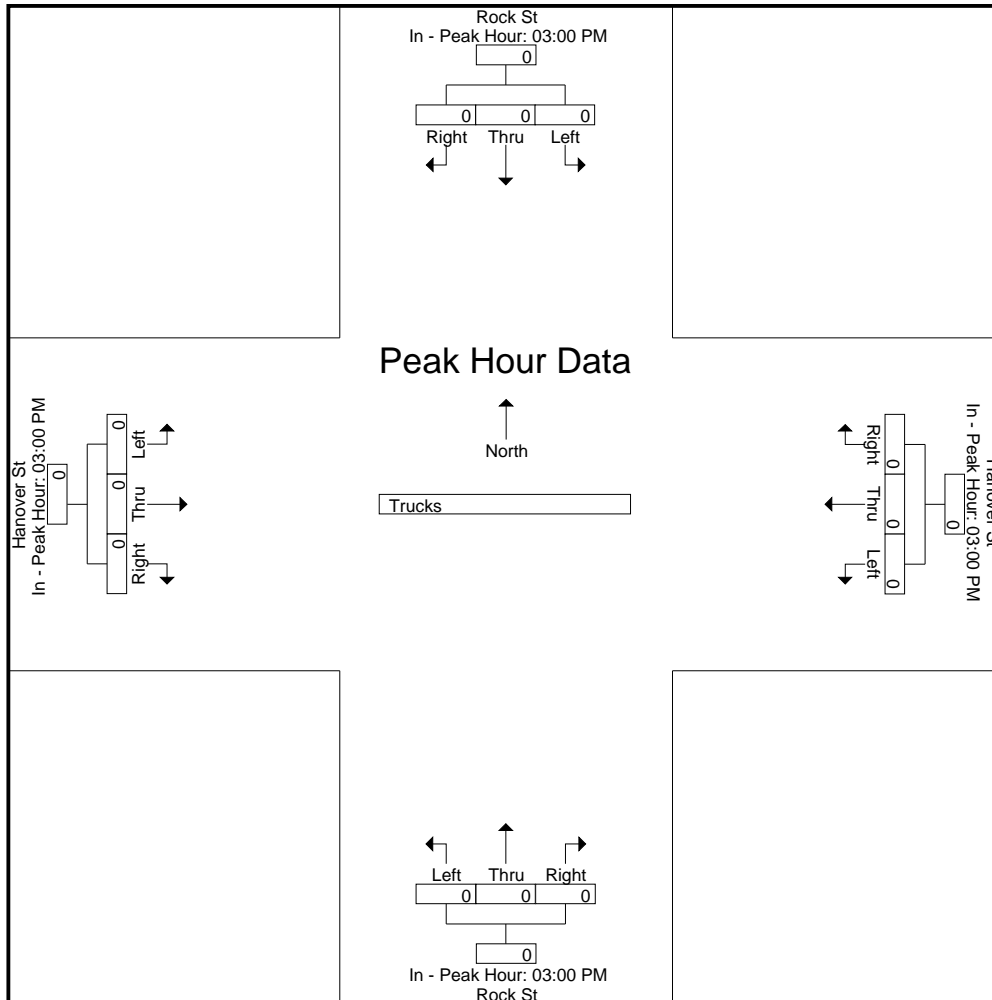
Page No : 9

N/S Street : Rock Street

E/W Street : Hanover Street

City/State : Portsmouth, NH

Weather : Rain / Cloudy



Accurate Counts

978-664-2565

N/S Street : Rock Street
 E/W Street : Hanover Street
 City/State : Portsmouth, NH
 Weather : Rain / Cloudy

File Name : 10068001
 Site Code : 10068001
 Start Date : 8/6/2024
 Page No : 10

Groups Printed- Bikes Peds

Start Time	Rock St From North				Hanover St From East				Rock St From South				Hanover St From West				Exclu. Total	Inclu. Total	Int. Total
	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds			
03:00 PM	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1	1	2
03:15 PM	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	2	6	0	6
03:30 PM	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3
03:45 PM	0	0	0	1	0	0	0	0	0	0	0	3	0	0	0	3	7	0	7
Total	0	0	0	4	0	0	0	2	0	1	0	6	0	0	0	5	17	1	18
04:00 PM	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	1	2	1	3
04:15 PM	1	0	0	1	0	0	0	0	0	0	0	5	0	0	0	4	10	1	11
04:30 PM	0	0	0	3	0	0	0	1	0	0	0	0	0	0	0	0	4	0	4
04:45 PM	0	0	0	1	0	0	0	1	0	0	0	1	0	1	0	1	4	1	5
Total	1	0	0	5	0	1	0	2	0	0	0	7	0	1	0	6	20	3	23
05:00 PM	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	2	0	2
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	2	0	2
05:30 PM	0	0	0	2	0	0	0	3	0	0	0	0	0	0	0	0	5	0	5
05:45 PM	1	0	0	2	0	0	0	2	0	0	0	4	0	0	0	1	9	1	10
Total	1	0	0	4	0	0	0	7	0	0	0	5	0	0	0	2	18	1	19
Grand Total	2	0	0	13	0	1	0	11	0	1	0	18	0	1	0	13	55	5	60
Apprch %	100	0	0		0	100	0		0	100	0		0	100	0				
Total %	40	0	0		0	20	0		0	20	0		0	20	0		91.7	8.3	

Start Time	Rock St From North				Hanover St From East				Rock St From South				Hanover St From West				Int. Total
	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	
Peak Hour Analysis From 03:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:00 PM																	
04:00 PM	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1
04:15 PM	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
Total Volume	1	0	0	1	0	1	0	1	0	0	0	0	0	1	0	1	3
% App. Total	100	0	0		0	100	0		0	0	0		0	100	0		
PHF	.250	.000	.000	.250	.000	.250	.000	.250	.000	.000	.000	.000	.000	.250	.000	.250	.750

Accurate Counts

978-664-2565

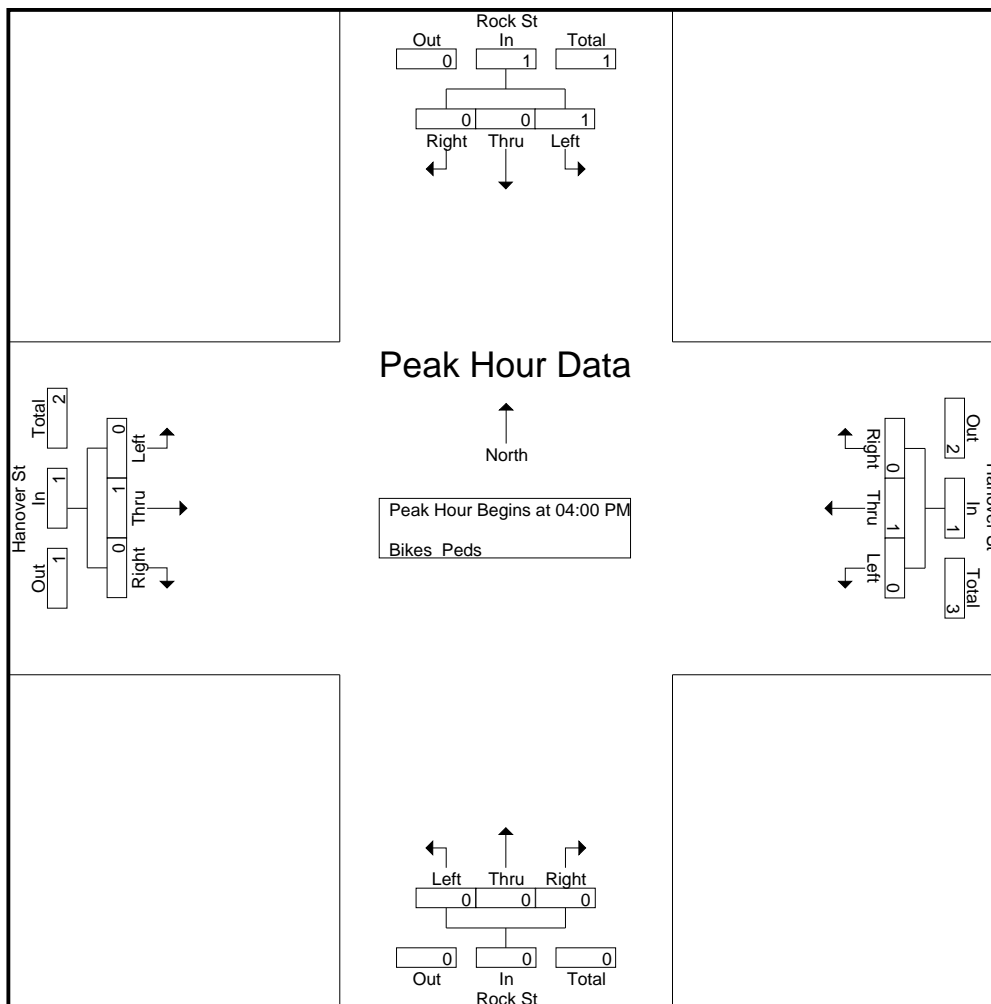
File Name : 10068001

Site Code : 10068001

Start Date : 8/6/2024

Page No : 11

N/S Street : Rock Street
 E/W Street : Hanover Street
 City/State : Portsmouth, NH
 Weather : Rain / Cloudy



Peak Hour Analysis From 03:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

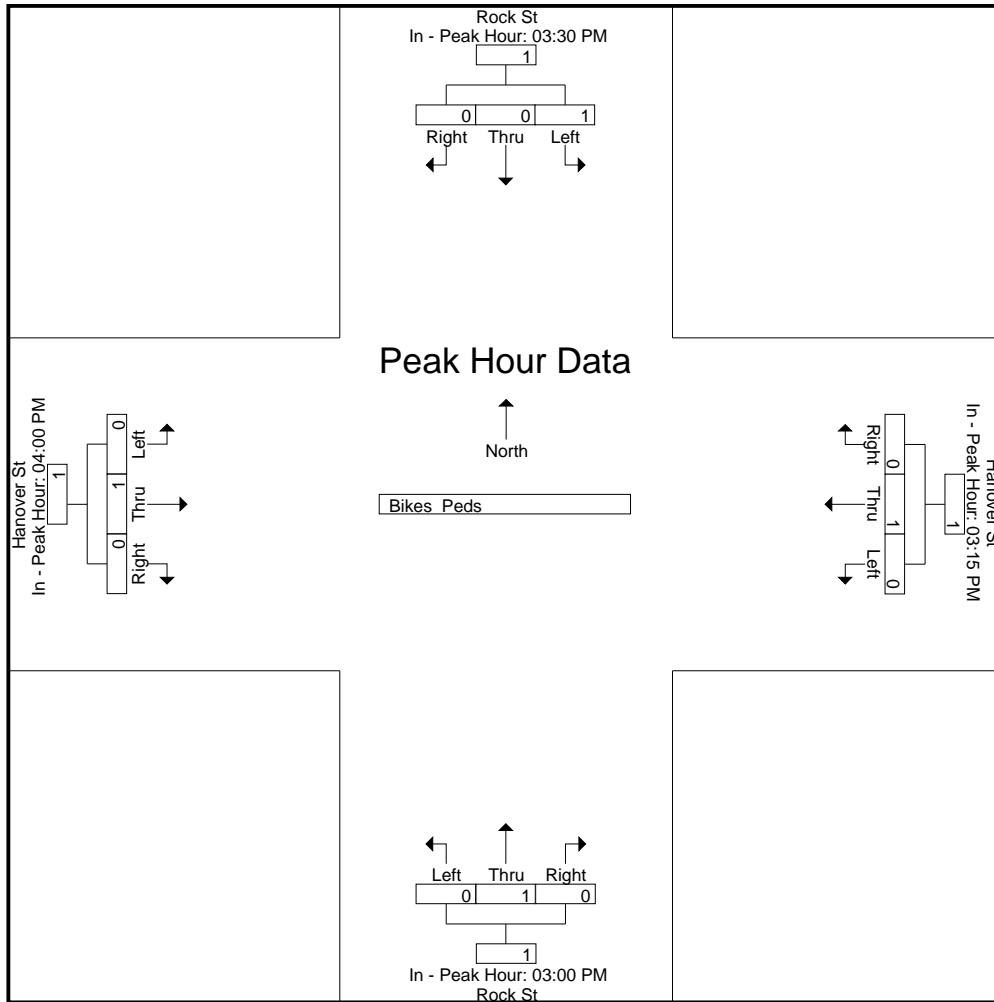
	03:30 PM				03:15 PM				03:00 PM				04:00 PM			
+0 mins.	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+45 mins.	1	0	0	1	0	1	0	1	0	0	0	0	0	1	0	1
Total Volume	1	0	0	1	0	1	0	1	0	1	0	1	0	1	0	1
% App. Total	100	0	0		0	100	0		0	100	0		0	100	0	
PHF	.250	.000	.000	.250	.000	.250	.000	.250	.000	.250	.000	.250	.000	.250	.000	.250

Accurate Counts

978-664-2565

N/S Street : Rock Street
E/W Street : Hanover Street
City/State : Portsmouth, NH
Weather : Rain / Cloudy

File Name : 10068001
Site Code : 10068001
Start Date : 8/6/2024
Page No : 12



Accurate Counts

978-664-2565

N/S Street : Parking Lot / Pearl St
 E/W Street : Hanover Street
 City/State : Portsmouth, NH
 Weather : Rain / Cloudy

File Name : 10068002
 Site Code : 10068002
 Start Date : 8/6/2024
 Page No : 1

Groups Printed- Cars - Trucks

Start Time	Parking Lot From North			Hanover St From East			Pearl St From South			Hanover St From West			Int. Total
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
07:00 AM	0	0	0	0	0	0	0	4	0	0	5	0	9
07:15 AM	0	0	0	0	0	0	0	0	2	0	6	0	8
07:30 AM	0	0	0	0	0	0	0	1	2	0	6	1	10
07:45 AM	1	0	0	0	1	0	0	2	3	1	5	2	15
Total	1	0	0	0	1	0	0	7	7	1	22	3	42
08:00 AM	1	0	0	0	0	0	0	0	4	0	4	4	13
08:15 AM	0	0	0	1	0	0	0	1	2	1	10	0	15
08:30 AM	0	0	0	0	0	0	0	1	4	0	11	5	21
08:45 AM	0	0	0	0	1	0	1	1	3	0	12	2	20
Total	1	0	0	1	1	0	1	3	13	1	37	11	69
Grand Total	2	0	0	1	2	0	1	10	20	2	59	14	111
Apprch %	100	0	0	33.3	66.7	0	3.2	32.3	64.5	2.7	78.7	18.7	
Total %	1.8	0	0	0.9	1.8	0	0.9	9	18	1.8	53.2	12.6	
Cars	2	0	0	1	2	0	1	10	19	2	59	14	110
% Cars	100	0	0	100	100	0	100	100	95	100	100	100	99.1
Trucks	0	0	0	0	0	0	0	0	1	0	0	0	1
% Trucks	0	0	0	0	0	0	0	0	5	0	0	0	0.9

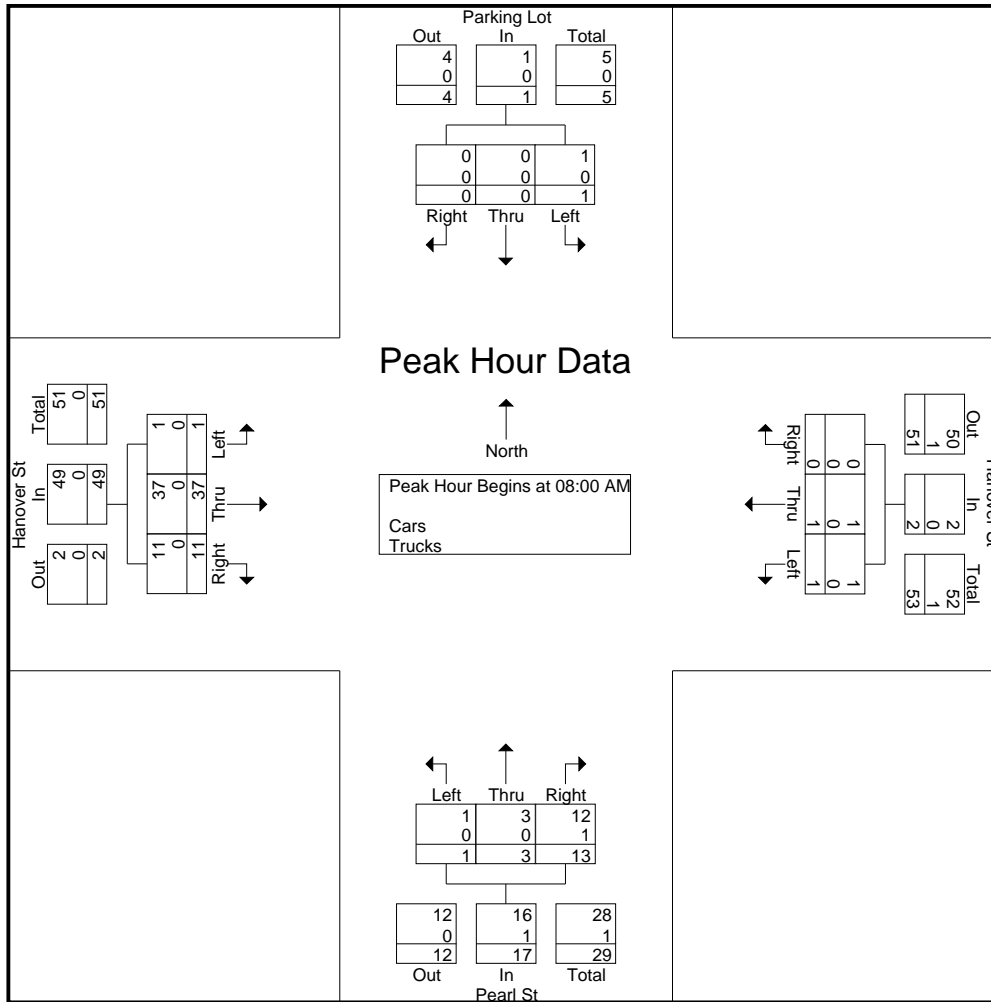
Start Time	Parking Lot From North				Hanover St From East				Pearl St From South				Hanover St From West				Int. Total
	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 08:00 AM																	
08:00 AM	1	0	0	1	0	0	0	0	0	0	4	4	0	4	4	8	13
08:15 AM	0	0	0	0	1	0	0	1	0	1	2	3	1	10	0	11	15
08:30 AM	0	0	0	0	0	0	0	0	0	1	4	5	0	11	5	16	21
08:45 AM	0	0	0	0	0	1	0	1	1	1	3	5	0	12	2	14	20
Total Volume	1	0	0	1	1	1	0	2	1	3	13	17	1	37	11	49	69
% App. Total	100	0	0		50	50	0		5.9	17.6	76.5	94.1	100	100	100	100	98.6
PHF	.250	.000	.000	.250	.250	.250	.000	.500	.250	.750	.813	.850	.250	.771	.550	.766	.821
Cars	1	0	0	1	1	1	0	2	1	3	12	16	1	37	11	49	68
% Cars	100	0	0	100	100	100	0	100	100	100	92.3	94.1	100	100	100	100	98.6
Trucks	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1
% Trucks	0	0	0	0	0	0	0	0	0	0	7.7	5.9	0	0	0	0	1.4

Accurate Counts

978-664-2565

N/S Street : Parking Lot / Pearl St
 E/W Street : Hanover Street
 City/State : Portsmouth, NH
 Weather : Rain / Cloudy

File Name : 10068002
 Site Code : 10068002
 Start Date : 8/6/2024
 Page No : 2



Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	07:15 AM				07:30 AM				07:45 AM				08:00 AM			
+0 mins.	0	0	0	0	0	0	0	0	0	2	3	5	0	4	4	8
+15 mins.	0	0	0	0	0	1	0	1	0	0	4	4	1	10	0	11
+30 mins.	1	0	0	1	0	0	0	0	0	1	2	3	0	11	5	16
+45 mins.	1	0	0	1	1	0	0	1	0	1	4	5	0	12	2	14
Total Volume	2	0	0	2	1	1	0	2	0	4	13	17	1	37	11	49
% App. Total	100	0	0		50	50	0		0	23.5	76.5		2	75.5	22.4	
PHF	.500	.000	.000	.500	.250	.250	.000	.500	.000	.500	.813	.850	.250	.771	.550	.766
Cars	2	0	0	2	1	1	0	2	0	4	12	16	1	37	11	49
% Cars	100	0	0	100	100	100	0	100	0	100	92.3	94.1	100	100	100	100
Trucks	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
% Trucks	0	0	0	0	0	0	0	0	0	0	7.7	5.9	0	0	0	0

Accurate Counts

978-664-2565

File Name : 10068002

Site Code : 10068002

Start Date : 8/6/2024

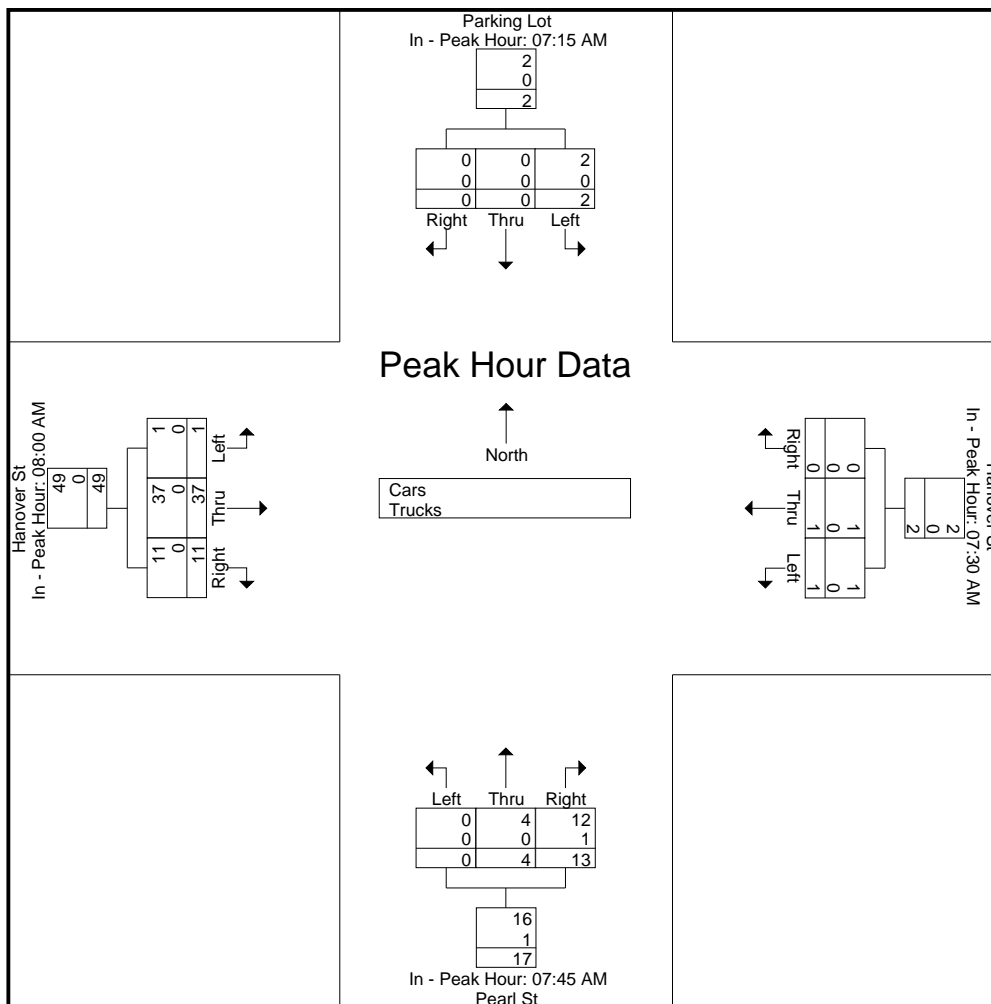
Page No : 3

N/S Street : Parking Lot / Pearl St

E/W Street : Hanover Street

City/State : Portsmouth, NH

Weather : Rain / Cloudy



Accurate Counts

978-664-2565

N/S Street : Parking Lot / Pearl St
 E/W Street : Hanover Street
 City/State : Portsmouth, NH
 Weather : Rain / Cloudy

File Name : 10068002
 Site Code : 10068002
 Start Date : 8/6/2024
 Page No : 4

Groups Printed- Cars

Start Time	Parking Lot From North			Hanover St From East			Pearl St From South			Hanover St From West			Int. Total
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
07:00 AM	0	0	0	0	0	0	0	4	0	0	5	0	9
07:15 AM	0	0	0	0	0	0	0	0	2	0	6	0	8
07:30 AM	0	0	0	0	0	0	0	1	2	0	6	1	10
07:45 AM	1	0	0	0	1	0	0	2	3	1	5	2	15
Total	1	0	0	0	1	0	0	7	7	1	22	3	42
08:00 AM	1	0	0	0	0	0	0	0	3	0	4	4	12
08:15 AM	0	0	0	1	0	0	0	1	2	1	10	0	15
08:30 AM	0	0	0	0	0	0	0	1	4	0	11	5	21
08:45 AM	0	0	0	0	1	0	1	1	3	0	12	2	20
Total	1	0	0	1	1	0	1	3	12	1	37	11	68
Grand Total	2	0	0	1	2	0	1	10	19	2	59	14	110
Apprch %	100	0	0	33.3	66.7	0	3.3	33.3	63.3	2.7	78.7	18.7	
Total %	1.8	0	0	0.9	1.8	0	0.9	9.1	17.3	1.8	53.6	12.7	

Start Time	Parking Lot From North				Hanover St From East				Pearl St From South				Hanover St From West				Int. Total
	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 08:00 AM																	
08:00 AM	1	0	0	1	0	0	0	0	0	0	3	3	0	4	4	8	12
08:15 AM	0	0	0	0	1	0	0	1	0	1	2	3	1	10	0	11	15
08:30 AM	0	0	0	0	0	0	0	0	0	1	4	5	0	11	5	16	21
08:45 AM	0	0	0	0	0	1	0	1	1	1	3	5	0	12	2	14	20
Total Volume	1	0	0	1	1	1	0	2	1	3	12	16	1	37	11	49	68
% App. Total	100	0	0		50	50	0		6.2	18.8	75		2	75.5	22.4		
PHF	.250	.000	.000	.250	.250	.250	.000	.500	.250	.750	.750	.800	.250	.771	.550	.766	.810

Accurate Counts

978-664-2565

File Name : 10068002

Site Code : 10068002

Start Date : 8/6/2024

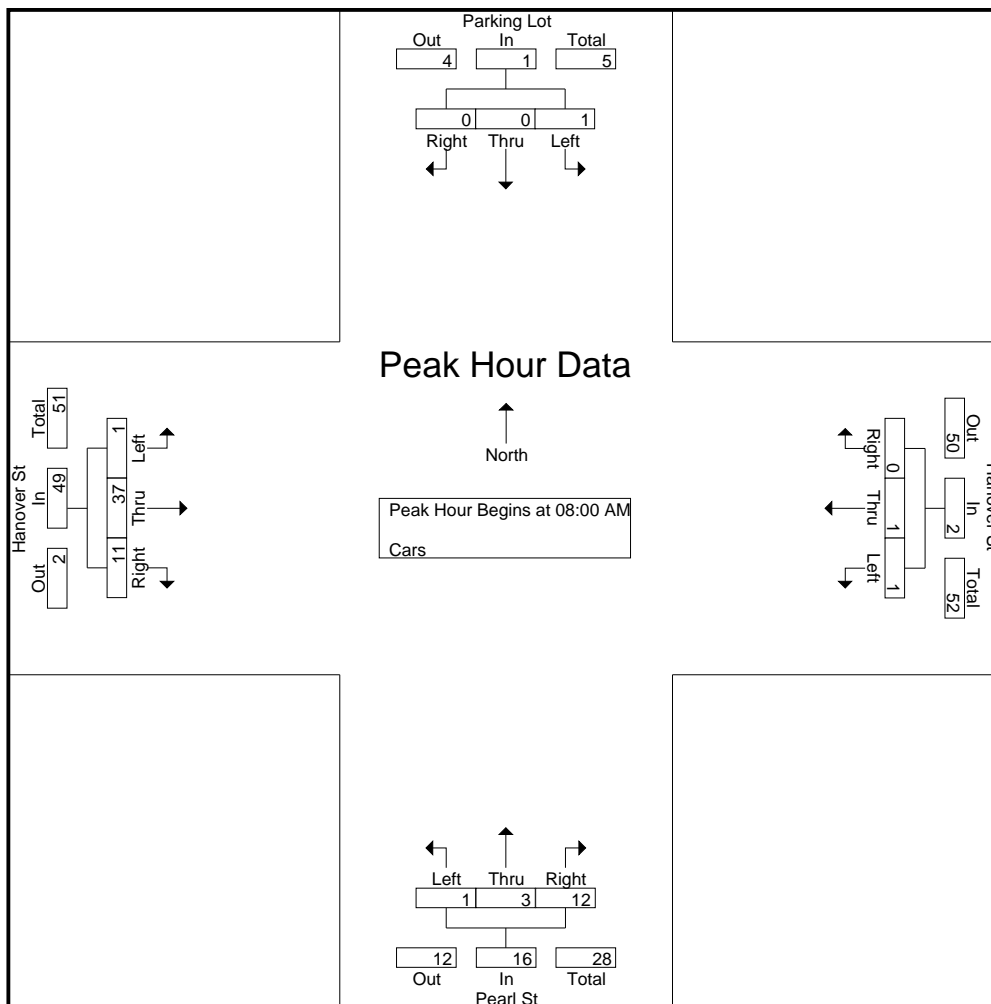
Page No : 5

N/S Street : Parking Lot / Pearl St

E/W Street : Hanover Street

City/State : Portsmouth, NH

Weather : Rain / Cloudy



Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	07:15 AM				07:30 AM				07:45 AM				08:00 AM			
+0 mins.	0	0	0	0	0	0	0	0	0	2	3	5	0	4	4	8
+15 mins.	0	0	0	0	0	1	0	1	0	0	3	3	1	10	0	11
+30 mins.	1	0	0	1	0	0	0	0	0	1	2	3	0	11	5	16
+45 mins.	1	0	0	1	1	0	0	1	0	1	4	5	0	12	2	14
Total Volume	2	0	0	2	1	1	0	2	0	4	12	16	1	37	11	49
% App. Total	100	0	0		50	50	0		0	25	75		2	75.5	22.4	
PHF	.500	.000	.000	.500	.250	.250	.000	.500	.000	.500	.750	.800	.250	.771	.550	.766

Accurate Counts

978-664-2565

File Name : 10068002

Site Code : 10068002

Start Date : 8/6/2024

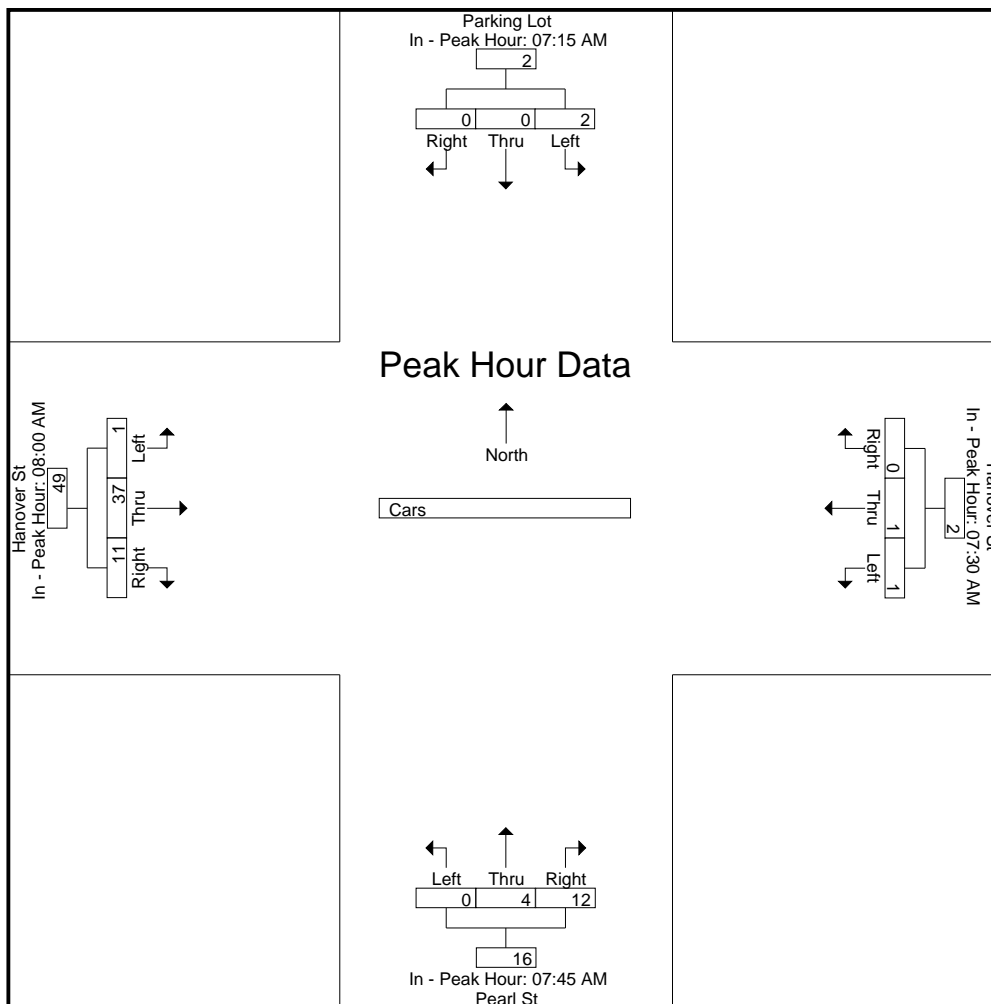
Page No : 6

N/S Street : Parking Lot / Pearl St

E/W Street : Hanover Street

City/State : Portsmouth, NH

Weather : Rain / Cloudy



Accurate Counts

978-664-2565

N/S Street : Parking Lot / Pearl St
 E/W Street : Hanover Street
 City/State : Portsmouth, NH
 Weather : Rain / Cloudy

File Name : 10068002
 Site Code : 10068002
 Start Date : 8/6/2024
 Page No : 7

Groups Printed- Trucks

Start Time	Parking Lot From North			Hanover St From East			Pearl St From South			Hanover St From West			Int. Total
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
07:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
07:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0
08:00 AM	0	0	0	0	0	0	0	0	1	0	0	0	1
08:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
08:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	1	0	0	0	1
Grand Total	0	0	0	0	0	0	0	0	1	0	0	0	1
Apprch %	0	0	0	0	0	0	0	0	100	0	0	0	
Total %	0	0	0	0	0	0	0	0	100	0	0	0	

Start Time	Parking Lot From North				Hanover St From East				Pearl St From South				Hanover St From West				Int. Total
	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:15 AM																	
07:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:00 AM	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1
Total Volume	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1
% App. Total	0	0	0		0	0	0		0	0	100		0	0	0		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.250	.250	.000	.000	.000	.000	.250

Accurate Counts

978-664-2565

File Name : 10068002

Site Code : 10068002

Start Date : 8/6/2024

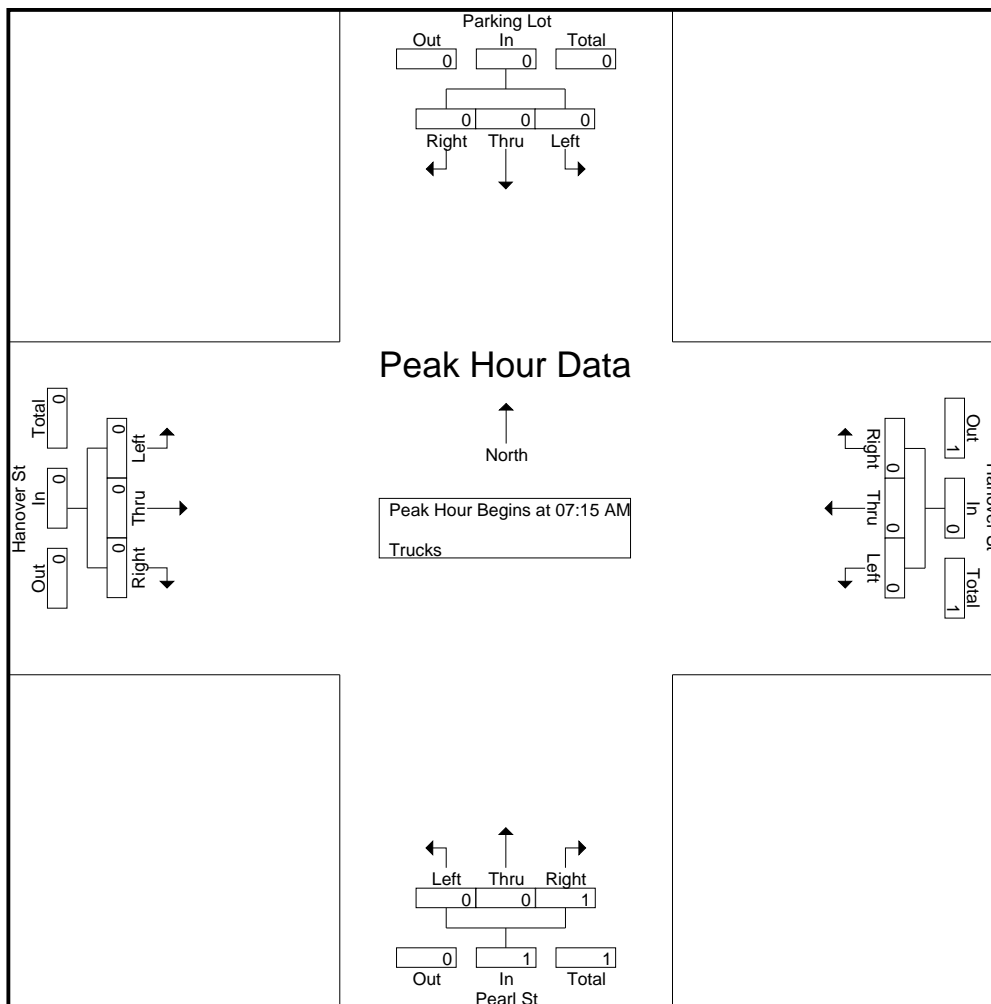
Page No : 8

N/S Street : Parking Lot / Pearl St

E/W Street : Hanover Street

City/State : Portsmouth, NH

Weather : Rain / Cloudy



Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	07:00 AM				07:00 AM				07:15 AM				07:00 AM			
+0 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
% App. Total	0	0	0	0	0	0	0	0	0	0	100	100	0	0	0	0
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.250	.250	.000	.000	.000	.000

Accurate Counts

978-664-2565

File Name : 10068002

Site Code : 10068002

Start Date : 8/6/2024

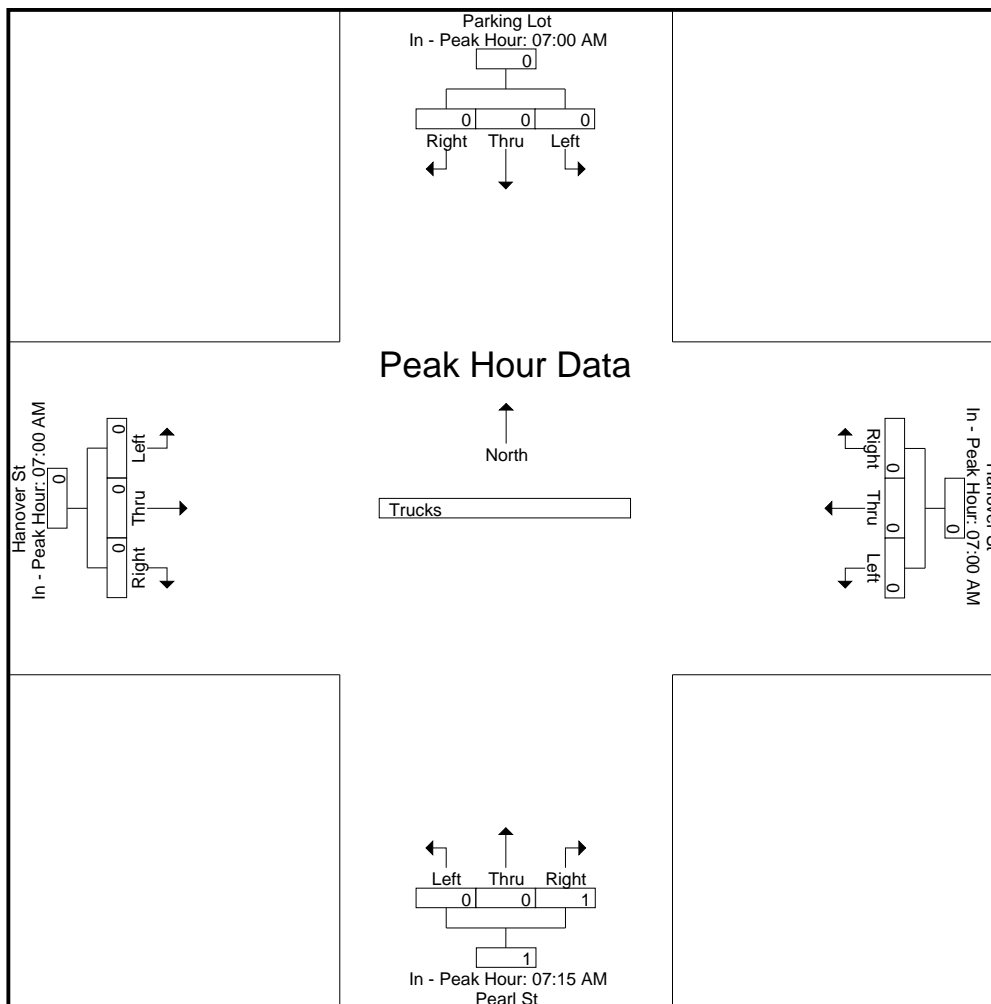
Page No : 9

N/S Street : Parking Lot / Pearl St

E/W Street : Hanover Street

City/State : Portsmouth, NH

Weather : Rain / Cloudy



Accurate Counts

978-664-2565

N/S Street : Parking Lot / Pearl St

E/W Street : Hanover Street

City/State : Portsmouth, NH

Weather : Rain / Cloudy

File Name : 10068002

Site Code : 10068002

Start Date : 8/6/2024

Page No : 10

Groups Printed- Bikes Peds

Start Time	Parking Lot From North				Hanover St From East				Pearl St From South				Hanover St From West				Exclu. Total	Inclu. Total	Int. Total
	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds			
07:00 AM	0	0	0	4	0	0	0	0	0	0	0	4	0	0	0	1	9	0	9
07:15 AM	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	3	0	3
07:30 AM	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	2	0	2
07:45 AM	0	0	0	2	0	0	0	0	0	0	0	1	0	0	0	0	3	0	3
Total	0	0	0	6	0	0	0	1	0	0	0	9	0	0	0	1	17	0	17
08:00 AM	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
08:15 AM	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0	0	3	0	3
08:30 AM	0	0	0	2	0	0	0	0	0	0	0	1	0	0	0	0	3	0	3
08:45 AM	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	2	0	2
Total	0	0	0	4	0	0	0	1	0	0	0	4	0	0	0	0	9	0	9
Grand Total	0	0	0	10	0	0	0	2	0	0	0	13	0	0	0	1	26	0	26
Apprch %	0	0	0		0	0	0		0	0	0		0	0	0				
Total %																	100	0	

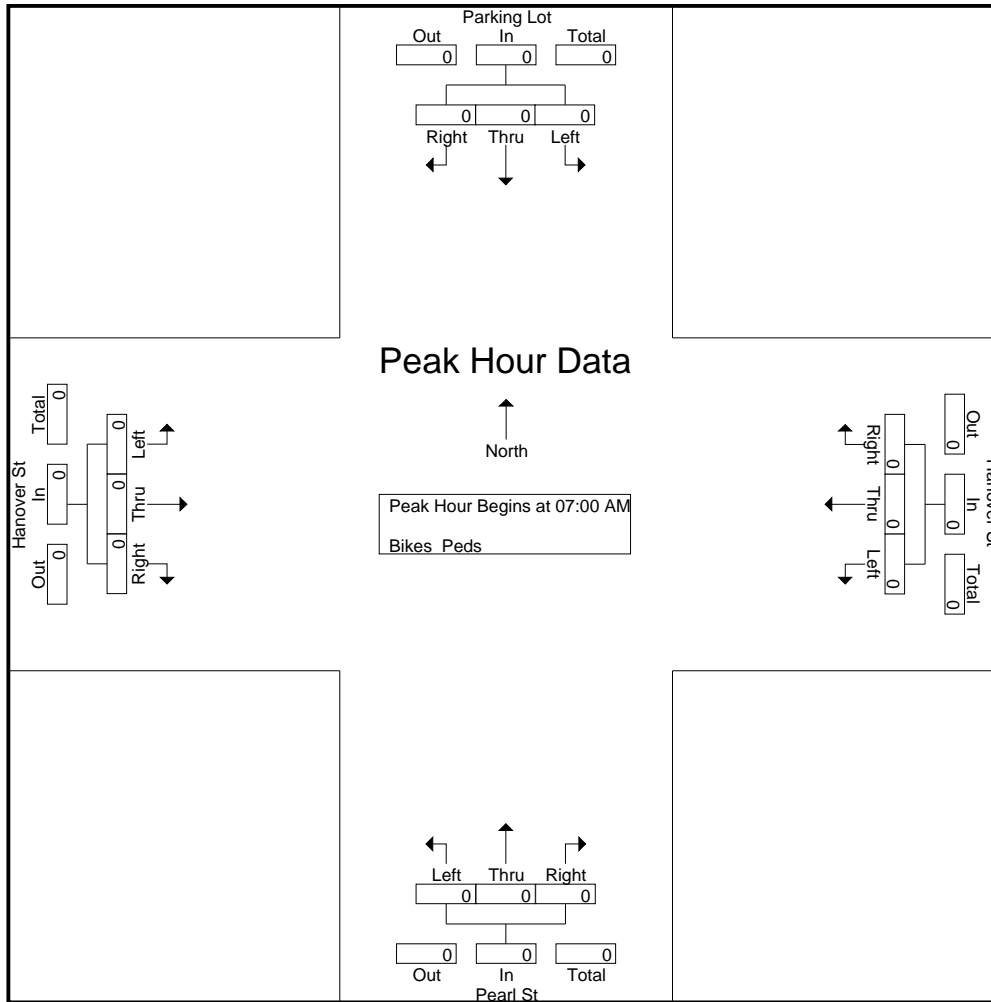
Start Time	Parking Lot From North				Hanover St From East				Pearl St From South				Hanover St From West				Int. Total
	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:00 AM																	
07:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0	0		0	0	0		0	0	0		0	0	0		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

Accurate Counts

978-664-2565

N/S Street : Parking Lot / Pearl St
 E/W Street : Hanover Street
 City/State : Portsmouth, NH
 Weather : Rain / Cloudy

File Name : 10068002
 Site Code : 10068002
 Start Date : 8/6/2024
 Page No : 11



Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

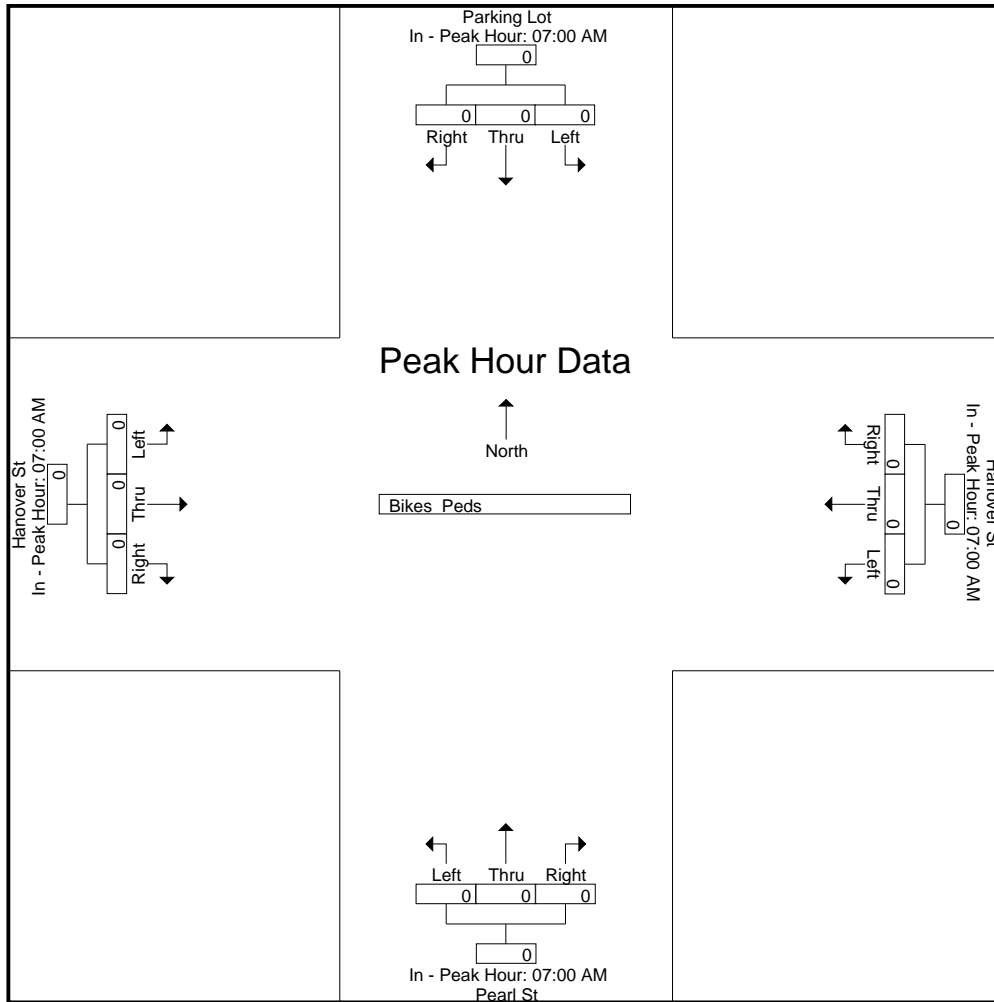
	07:00 AM				07:00 AM				07:00 AM				07:00 AM			
+0 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

Accurate Counts

978-664-2565

N/S Street : Parking Lot / Pearl St
E/W Street : Hanover Street
City/State : Portsmouth, NH
Weather : Rain / Cloudy

File Name : 10068002
Site Code : 10068002
Start Date : 8/6/2024
Page No : 12



Accurate Counts

978-664-2565

N/S Street : Parking Lot / Pearl St

E/W Street : Hanover Street

City/State : Portsmouth, NH

Weather : Rain / Cloudy

File Name : 10068002

Site Code : 10068002

Start Date : 8/6/2024

Page No : 1

Groups Printed- Cars - Trucks

Start Time	Parking Lot From North			Hanover St From East			Pearl St From South			Hanover St From West			Int. Total
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
03:00 PM	1	0	0	0	1	0	0	0	7	0	10	0	19
03:15 PM	2	2	0	0	0	0	1	0	5	0	10	1	21
03:30 PM	8	0	0	0	0	0	0	0	6	0	3	1	18
03:45 PM	2	1	0	0	0	0	2	0	8	0	8	3	24
Total	13	3	0	0	1	0	3	0	26	0	31	5	82
04:00 PM	1	0	0	0	0	0	0	0	6	0	9	1	17
04:15 PM	0	1	1	0	0	0	0	0	1	0	6	6	15
04:30 PM	2	0	0	0	0	0	0	1	5	0	6	1	15
04:45 PM	1	0	1	0	1	0	1	0	4	0	6	3	17
Total	4	1	2	0	1	0	1	1	16	0	27	11	64
05:00 PM	0	0	0	0	0	0	0	0	2	0	8	3	13
05:15 PM	1	0	0	0	0	0	0	0	3	0	4	2	10
05:30 PM	0	0	0	0	0	0	1	0	2	0	3	2	8
05:45 PM	0	1	1	0	0	0	2	0	1	0	4	3	12
Total	1	1	1	0	0	0	3	0	8	0	19	10	43
Grand Total	18	5	3	0	2	0	7	1	50	0	77	26	189
Apprch %	69.2	19.2	11.5	0	100	0	12.1	1.7	86.2	0	74.8	25.2	
Total %	9.5	2.6	1.6	0	1.1	0	3.7	0.5	26.5	0	40.7	13.8	
Cars	18	5	3	0	2	0	7	1	45	0	77	26	184
% Cars	100	100	100	0	100	0	100	100	90	0	100	100	97.4
Trucks	0	0	0	0	0	0	0	0	5	0	0	0	5
% Trucks	0	0	0	0	0	0	0	0	10	0	0	0	2.6

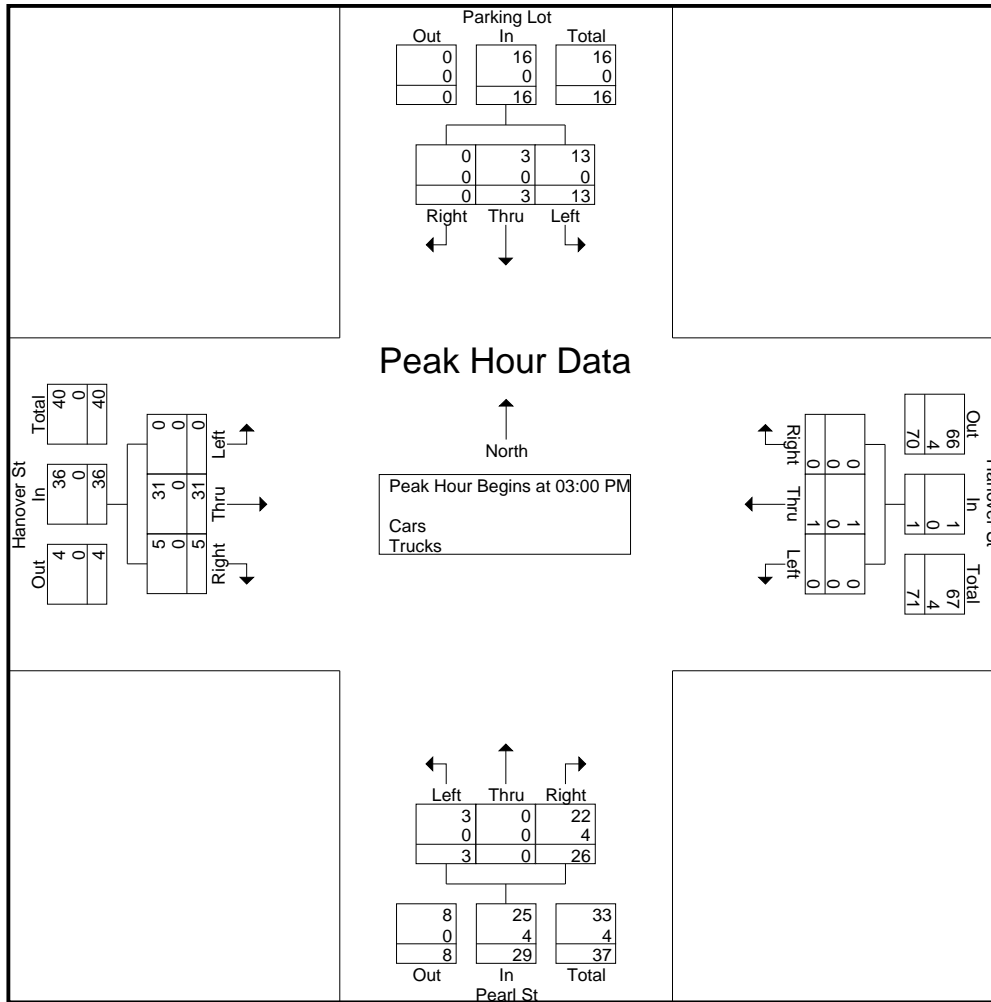
Start Time	Parking Lot From North				Hanover St From East				Pearl St From South				Hanover St From West				Int. Total
	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	
Peak Hour Analysis From 03:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 03:00 PM																	
03:00 PM	1	0	0	1	0	1	0	1	0	0	7	7	0	10	0	10	19
03:15 PM	2	2	0	4	0	0	0	0	1	0	5	6	0	10	1	11	21
03:30 PM	8	0	0	8	0	0	0	0	0	0	6	6	0	3	1	4	18
03:45 PM	2	1	0	3	0	0	0	0	2	0	8	10	0	8	3	11	24
Total Volume	13	3	0	16	0	1	0	1	3	0	26	29	0	31	5	36	82
% App. Total	81.2	18.8	0	0	100	0	0	0	10.3	0	89.7	0	0	86.1	13.9	0	0
PHF	.406	.375	.000	.500	.000	.250	.000	.250	.375	.000	.813	.725	.000	.775	.417	.818	.854
Cars	13	3	0	16	0	1	0	1	3	0	22	25	0	31	5	36	78
% Cars	100	100	0	100	0	100	0	100	100	0	84.6	86.2	0	100	100	100	95.1
Trucks	0	0	0	0	0	0	0	0	0	0	4	4	0	0	0	0	4
% Trucks	0	0	0	0	0	0	0	0	0	0	15.4	13.8	0	0	0	0	4.9

Accurate Counts

978-664-2565

N/S Street : Parking Lot / Pearl St
 E/W Street : Hanover Street
 City/State : Portsmouth, NH
 Weather : Rain / Cloudy

File Name : 10068002
 Site Code : 10068002
 Start Date : 8/6/2024
 Page No : 2



Peak Hour Analysis From 03:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	03:00 PM				03:00 PM				03:00 PM				03:45 PM			
+0 mins.	1	0	0	1	0	1	0	1	0	0	7	7	0	8	3	11
+15 mins.	2	2	0	4	0	0	0	0	1	0	5	6	0	9	1	10
+30 mins.	8	0	0	8	0	0	0	0	0	0	6	6	0	6	6	12
+45 mins.	2	1	0	3	0	0	0	0	2	0	8	10	0	6	1	7
Total Volume	13	3	0	16	0	1	0	1	3	0	26	29	0	29	11	40
% App. Total	81.2	18.8	0		0	100	0		10.3	0	89.7		0	72.5	27.5	
PHF	.406	.375	.000	.500	.000	.250	.000	.250	.375	.000	.813	.725	.000	.806	.458	.833
Cars	13	3	0	16	0	1	0	1	3	0	22	25	0	29	11	40
% Cars	100	100	0	100	0	100	0	100	100	0	84.6	86.2	0	100	100	100
Trucks	0	0	0	0	0	0	0	0	0	0	4	4	0	0	0	0
% Trucks	0	0	0	0	0	0	0	0	0	0	15.4	13.8	0	0	0	0

Accurate Counts

978-664-2565

File Name : 10068002

Site Code : 10068002

Start Date : 8/6/2024

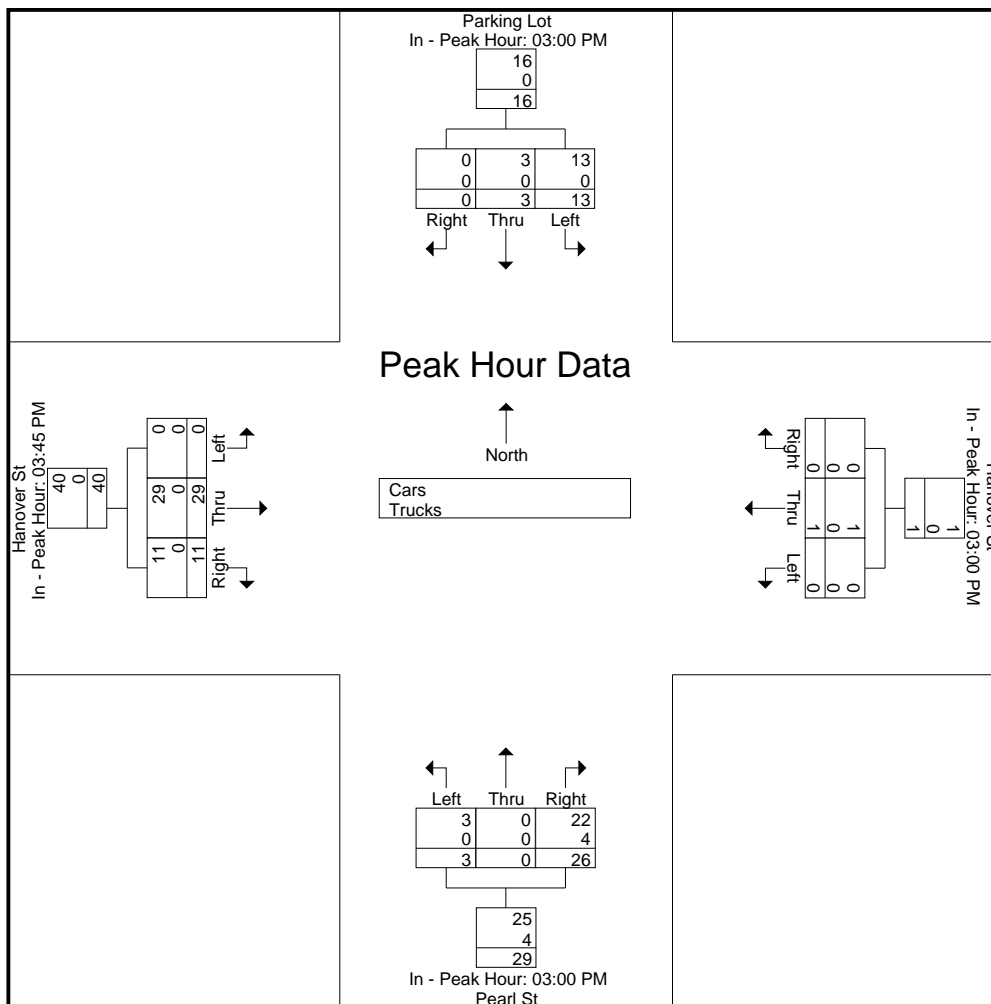
Page No : 3

N/S Street : Parking Lot / Pearl St

E/W Street : Hanover Street

City/State : Portsmouth, NH

Weather : Rain / Cloudy



Accurate Counts

978-664-2565

N/S Street : Parking Lot / Pearl St
 E/W Street : Hanover Street
 City/State : Portsmouth, NH
 Weather : Rain / Cloudy

File Name : 10068002
 Site Code : 10068002
 Start Date : 8/6/2024
 Page No : 4

Groups Printed- Cars

Start Time	Parking Lot From North			Hanover St From East			Pearl St From South			Hanover St From West			Int. Total
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
03:00 PM	1	0	0	0	1	0	0	0	6	0	10	0	18
03:15 PM	2	2	0	0	0	0	1	0	4	0	10	1	20
03:30 PM	8	0	0	0	0	0	0	0	5	0	3	1	17
03:45 PM	2	1	0	0	0	0	2	0	7	0	8	3	23
Total	13	3	0	0	1	0	3	0	22	0	31	5	78
04:00 PM	1	0	0	0	0	0	0	0	5	0	9	1	16
04:15 PM	0	1	1	0	0	0	0	0	1	0	6	6	15
04:30 PM	2	0	0	0	0	0	0	1	5	0	6	1	15
04:45 PM	1	0	1	0	1	0	1	0	4	0	6	3	17
Total	4	1	2	0	1	0	1	1	15	0	27	11	63
05:00 PM	0	0	0	0	0	0	0	0	2	0	8	3	13
05:15 PM	1	0	0	0	0	0	0	0	3	0	4	2	10
05:30 PM	0	0	0	0	0	0	1	0	2	0	3	2	8
05:45 PM	0	1	1	0	0	0	2	0	1	0	4	3	12
Total	1	1	1	0	0	0	3	0	8	0	19	10	43
Grand Total	18	5	3	0	2	0	7	1	45	0	77	26	184
Apprch %	69.2	19.2	11.5	0	100	0	13.2	1.9	84.9	0	74.8	25.2	
Total %	9.8	2.7	1.6	0	1.1	0	3.8	0.5	24.5	0	41.8	14.1	

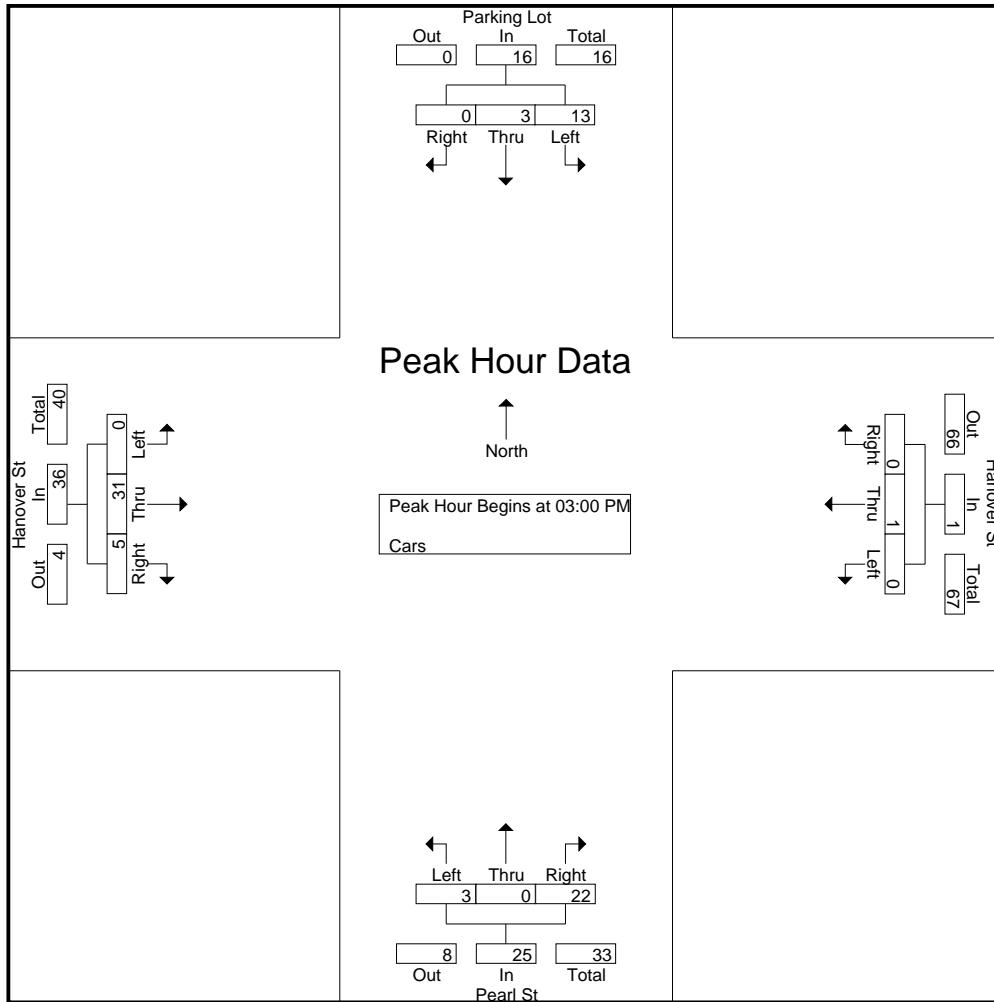
Start Time	Parking Lot From North				Hanover St From East				Pearl St From South				Hanover St From West				Int. Total
	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	
Peak Hour Analysis From 03:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 03:00 PM																	
03:00 PM	1	0	0	1	0	1	0	1	0	0	6	6	0	10	0	10	18
03:15 PM	2	2	0	4	0	0	0	0	1	0	4	5	0	10	1	11	20
03:30 PM	8	0	0	8	0	0	0	0	0	0	5	5	0	3	1	4	17
03:45 PM	2	1	0	3	0	0	0	0	2	0	7	9	0	8	3	11	23
Total Volume	13	3	0	16	0	1	0	1	3	0	22	25	0	31	5	36	78
% App. Total	81.2	18.8	0	.500	0	100	0	.250	12	0	88	.694	0	86.1	13.9	.818	.848
PHF	.406	.375	.000	.500	.000	.250	.000	.250	.375	.000	.786	.694	.000	.775	.417	.818	.848

Accurate Counts

978-664-2565

N/S Street : Parking Lot / Pearl St
 E/W Street : Hanover Street
 City/State : Portsmouth, NH
 Weather : Rain / Cloudy

File Name : 10068002
 Site Code : 10068002
 Start Date : 8/6/2024
 Page No : 5



Peak Hour Analysis From 03:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	03:00 PM				03:00 PM				03:00 PM				03:45 PM			
+0 mins.	1	0	0	1	0	1	0	1	0	0	6	6	0	8	3	11
+15 mins.	2	2	0	4	0	0	0	0	1	0	4	5	0	9	1	10
+30 mins.	8	0	0	8	0	0	0	0	0	0	5	5	0	6	6	12
+45 mins.	2	1	0	3	0	0	0	0	2	0	7	9	0	6	1	7
Total Volume	13	3	0	16	0	1	0	1	3	0	22	25	0	29	11	40
% App. Total	81.2	18.8	0		0	100	0		12	0	88		0	72.5	27.5	
PHF	.406	.375	.000	.500	.000	.250	.000	.250	.375	.000	.786	.694	.000	.806	.458	.833

Accurate Counts

978-664-2565

File Name : 10068002

Site Code : 10068002

Start Date : 8/6/2024

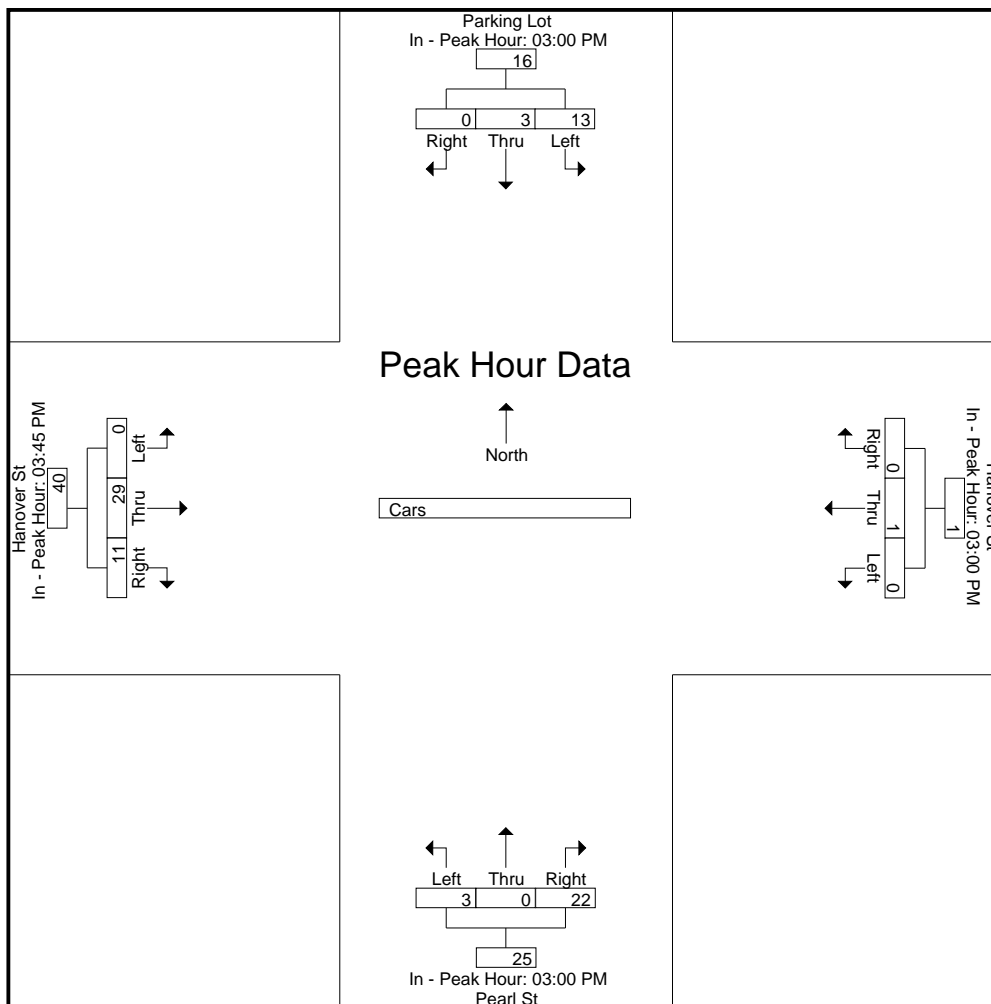
Page No : 6

N/S Street : Parking Lot / Pearl St

E/W Street : Hanover Street

City/State : Portsmouth, NH

Weather : Rain / Cloudy



Accurate Counts

978-664-2565

N/S Street : Parking Lot / Pearl St
 E/W Street : Hanover Street
 City/State : Portsmouth, NH
 Weather : Rain / Cloudy

File Name : 10068002
 Site Code : 10068002
 Start Date : 8/6/2024
 Page No : 7

Groups Printed- Trucks

Start Time	Parking Lot From North			Hanover St From East			Pearl St From South			Hanover St From West			Int. Total
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
03:00 PM	0	0	0	0	0	0	0	0	1	0	0	0	1
03:15 PM	0	0	0	0	0	0	0	0	1	0	0	0	1
03:30 PM	0	0	0	0	0	0	0	0	1	0	0	0	1
03:45 PM	0	0	0	0	0	0	0	0	1	0	0	0	1
Total	0	0	0	0	0	0	0	0	4	0	0	0	4
04:00 PM	0	0	0	0	0	0	0	0	1	0	0	0	1
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	1	0	0	0	1
05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	0	0	5	0	0	0	5
Apprch %	0	0	0	0	0	0	0	0	100	0	0	0	
Total %	0	0	0	0	0	0	0	0	100	0	0	0	

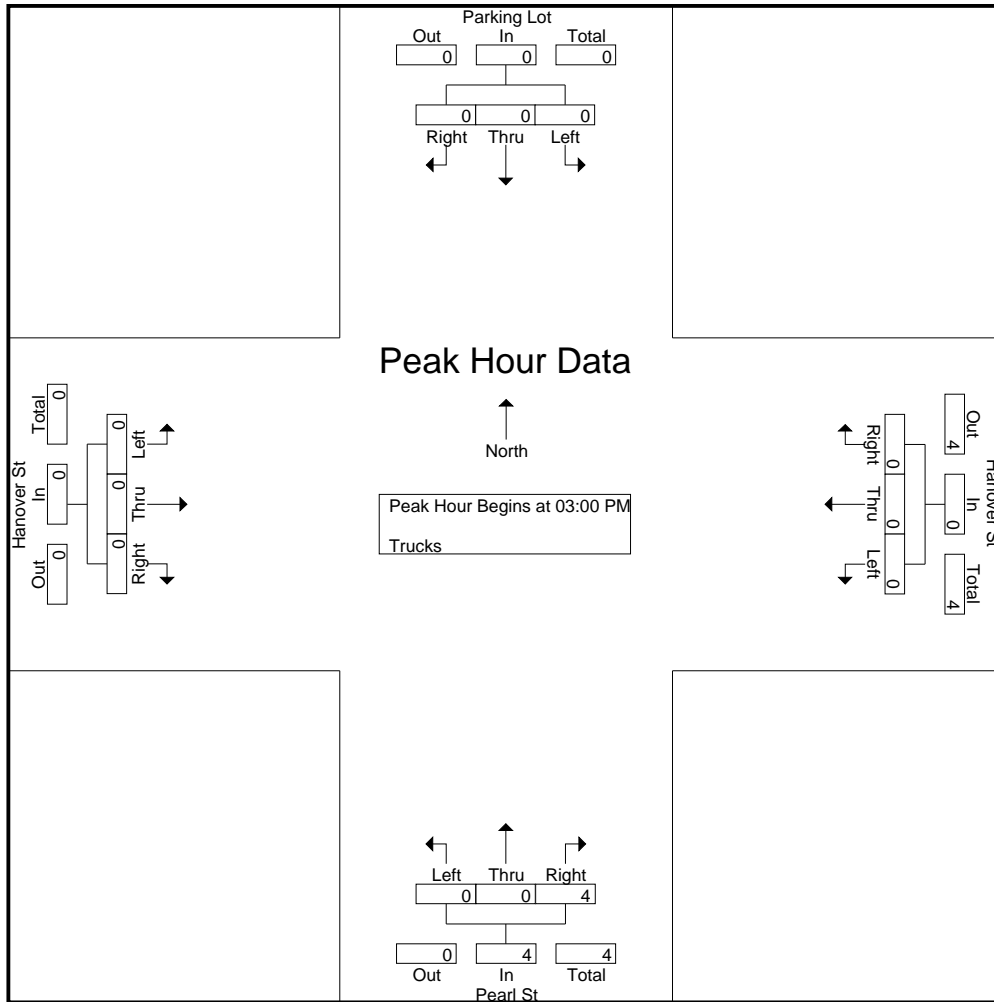
Start Time	Parking Lot From North				Hanover St From East				Pearl St From South				Hanover St From West				Int. Total
	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	
Peak Hour Analysis From 03:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 03:00 PM																	
03:00 PM	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1
03:15 PM	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1
03:30 PM	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1
03:45 PM	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1
Total Volume	0	0	0	0	0	0	0	0	0	0	4	4	0	0	0	0	4
% App. Total	0	0	0		0	0	0		0	0	100		0	0	0		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	1.00	1.00	.000	.000	.000	.000	1.00

Accurate Counts

978-664-2565

N/S Street : Parking Lot / Pearl St
 E/W Street : Hanover Street
 City/State : Portsmouth, NH
 Weather : Rain / Cloudy

File Name : 10068002
 Site Code : 10068002
 Start Date : 8/6/2024
 Page No : 8



Peak Hour Analysis From 03:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

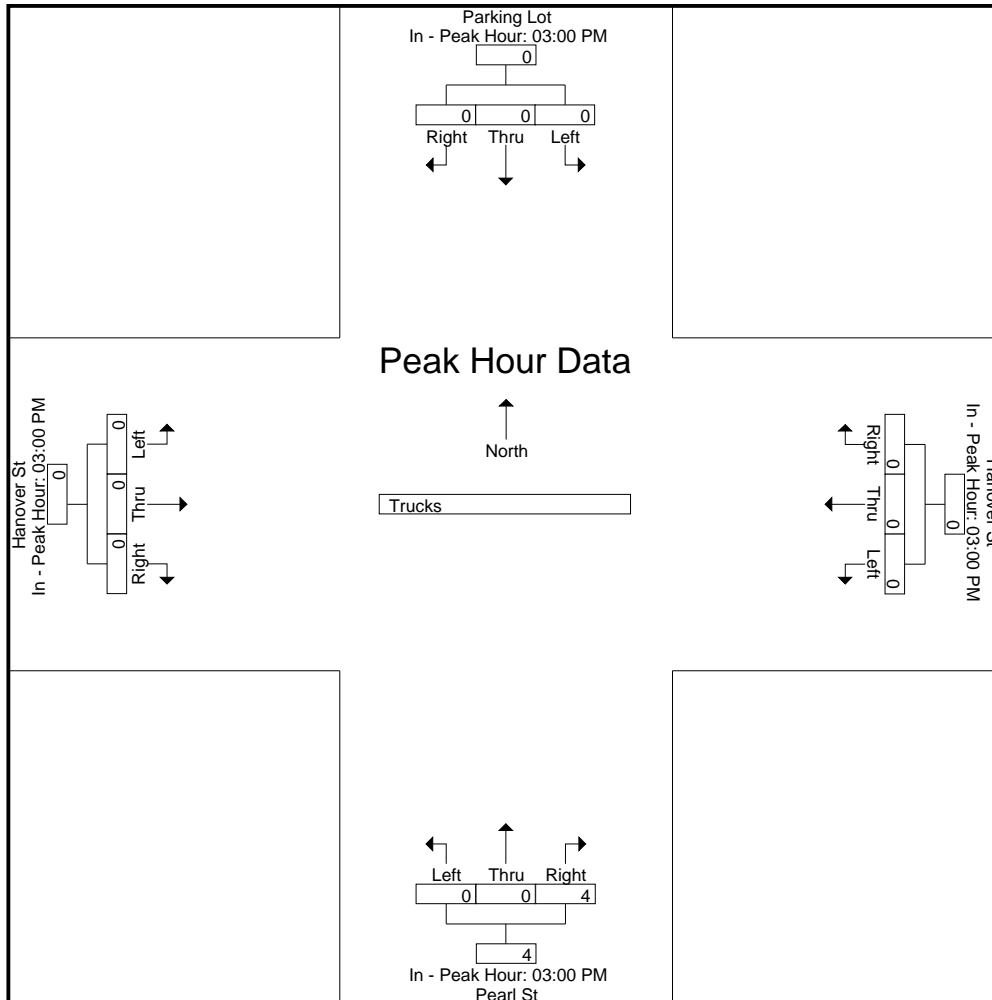
	03:00 PM				03:00 PM				03:00 PM				03:00 PM			
+0 mins.	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	4	4	0	0	0	0
% App. Total	0	0	0	0	0	0	0	0	0	0	100	100	0	0	0	0
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	1.000	1.000	.000	.000	.000	.000

Accurate Counts

978-664-2565

N/S Street : Parking Lot / Pearl St
E/W Street : Hanover Street
City/State : Portsmouth, NH
Weather : Rain / Cloudy

File Name : 10068002
Site Code : 10068002
Start Date : 8/6/2024
Page No : 9



Accurate Counts

978-664-2565

N/S Street : Parking Lot / Pearl St
 E/W Street : Hanover Street
 City/State : Portsmouth, NH
 Weather : Rain / Cloudy

File Name : 10068002
 Site Code : 10068002
 Start Date : 8/6/2024
 Page No : 10

Groups Printed- Bikes Peds

Start Time	Parking Lot From North				Hanover St From East				Pearl St From South				Hanover St From West				Exclu. Total	Inclu. Total	Int. Total
	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds			
03:00 PM	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	2	0	2
03:15 PM	0	0	0	3	0	0	0	0	0	0	0	5	0	0	0	0	8	0	8
03:30 PM	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	2	0	2
03:45 PM	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2	0	2
Total	0	0	0	3	0	0	0	2	0	0	0	9	0	0	0	0	14	0	14
04:00 PM	0	0	0	3	0	1	0	0	0	0	0	5	0	0	0	0	8	1	9
04:15 PM	0	0	0	2	0	0	0	0	0	0	0	6	0	1	0	0	8	1	9
04:30 PM	0	0	0	2	0	0	0	0	0	0	0	1	0	0	0	0	3	0	3
04:45 PM	0	0	0	2	0	0	0	1	0	0	0	0	0	1	0	0	3	1	4
Total	0	0	0	9	0	1	0	1	0	0	0	12	0	2	0	0	22	3	25
05:00 PM	0	0	0	2	0	0	0	1	0	0	0	0	0	0	0	0	3	0	3
05:15 PM	0	0	0	3	0	0	0	0	0	0	0	2	0	0	0	3	8	0	8
05:30 PM	0	0	0	3	0	0	0	0	0	0	0	1	0	0	0	0	4	0	4
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	3	1	0	0	1	4	1	5
Total	0	0	0	8	0	0	0	1	0	0	0	6	1	0	0	4	19	1	20
Grand Total	0	0	0	20	0	1	0	4	0	0	0	27	1	2	0	4	55	4	59
Apprch %	0	0	0		0	100	0		0	0	0		33.3	66.7	0				
Total %	0	0	0		0	25	0		0	0	0		25	50	0		93.2	6.8	

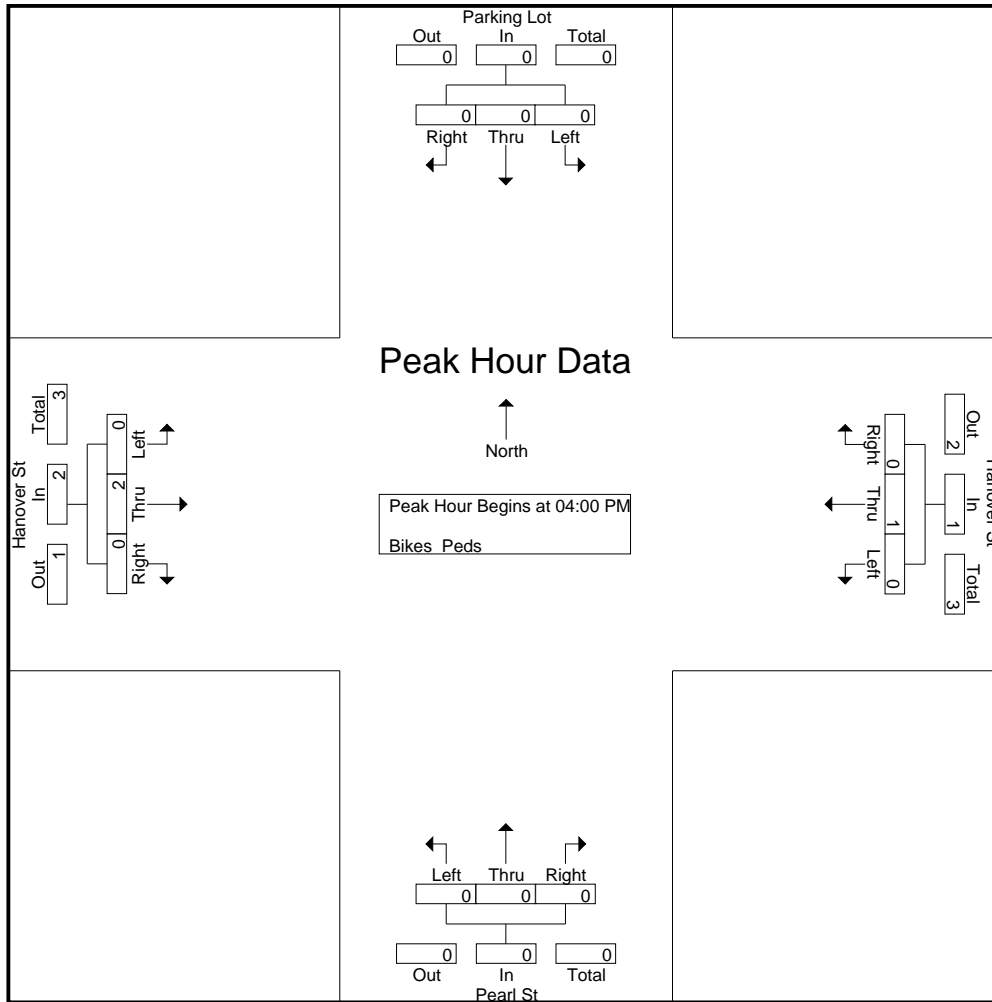
Start Time	Parking Lot From North				Hanover St From East				Pearl St From South				Hanover St From West				Int. Total
	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	
Peak Hour Analysis From 03:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:00 PM																	
04:00 PM	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
Total Volume	0	0	0	0	0	1	0	1	0	0	0	0	0	2	0	2	3
% App. Total	0	0	0		0	100	0		0	0	0		0	100	0		
PHF	.000	.000	.000	.000	.000	.250	.000	.250	.000	.000	.000	.000	.000	.500	.000	.500	.750

Accurate Counts

978-664-2565

N/S Street : Parking Lot / Pearl St
 E/W Street : Hanover Street
 City/State : Portsmouth, NH
 Weather : Rain / Cloudy

File Name : 10068002
 Site Code : 10068002
 Start Date : 8/6/2024
 Page No : 11



Peak Hour Analysis From 03:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	03:00 PM				03:15 PM				03:00 PM				04:00 PM			
+0 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
+30 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	1	0	1	0	0	0	0	0	1	0	1
Total Volume	0	0	0	0	0	1	0	1	0	0	0	0	0	2	0	2
% App. Total	0	0	0	0	0	100	0	100	0	0	0	0	0	100	0	100
PHF	.000	.000	.000	.000	.000	.250	.000	.250	.000	.000	.000	.000	.000	.500	.000	.500

Accurate Counts

978-664-2565

File Name : 10068002

Site Code : 10068002

Start Date : 8/6/2024

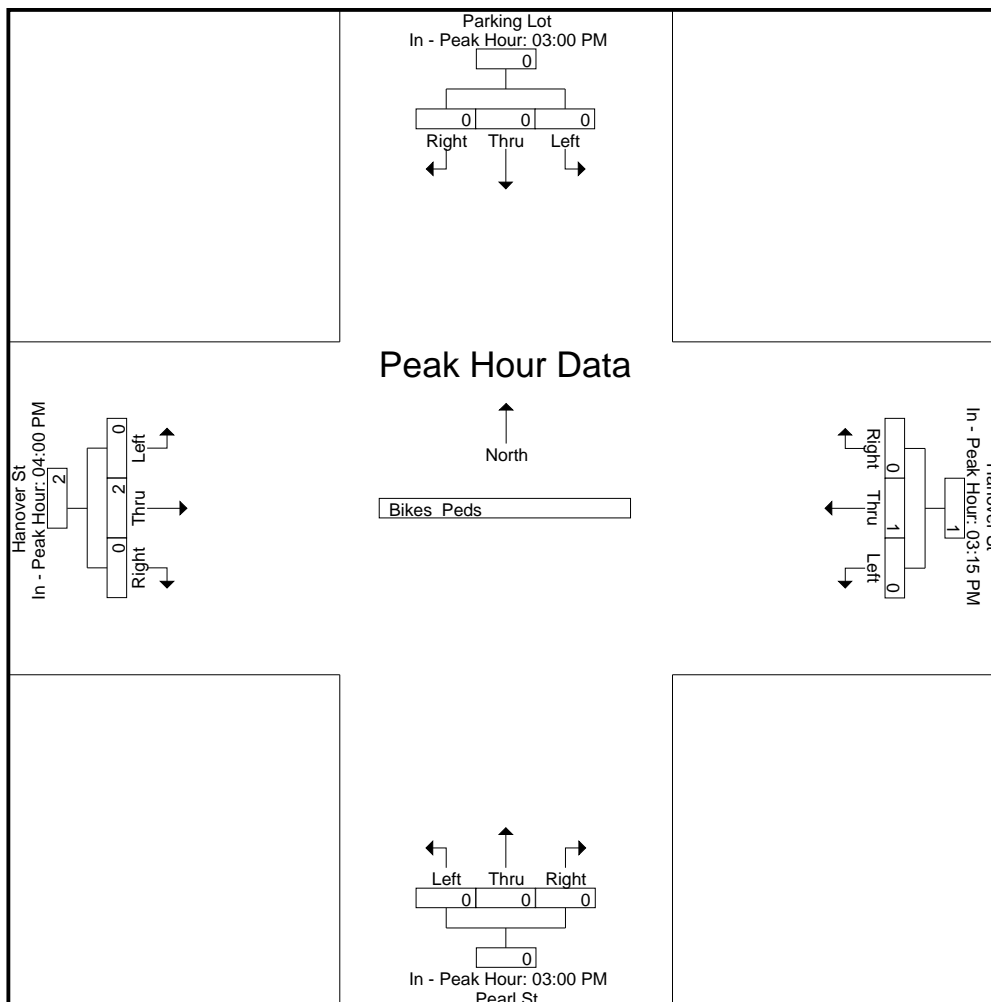
Page No : 12

N/S Street : Parking Lot / Pearl St

E/W Street : Hanover Street

City/State : Portsmouth, NH

Weather : Rain / Cloudy



Accurate Counts

978-664-2565

N/S Street : Bridge Street
 E/W Street : Hanover Street
 City/State : Portsmouth, NH
 Weather : Rain / Cloudy

File Name : 10068003
 Site Code : 10068003
 Start Date : 8/6/2024
 Page No : 1

Groups Printed- Cars - Trucks

Start Time	Bridge St From North			Hanover St From East			Bridge St From South			Hanover St From West			Int. Total
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
07:00 AM	1	0	0	2	0	3	0	3	9	1	7	0	26
07:15 AM	2	3	0	2	0	2	0	3	14	0	8	1	35
07:30 AM	7	1	0	5	0	6	0	2	17	4	6	2	50
07:45 AM	3	1	0	2	0	5	0	4	15	2	5	2	39
Total	13	5	0	11	0	16	0	12	55	7	26	5	150
08:00 AM	2	3	0	6	0	7	0	3	14	1	9	1	46
08:15 AM	3	3	0	5	0	9	0	3	24	4	9	1	61
08:30 AM	1	4	0	5	0	6	0	3	13	7	9	0	48
08:45 AM	5	3	0	9	0	5	0	6	12	6	8	1	55
Total	11	13	0	25	0	27	0	15	63	18	35	3	210
Grand Total	24	18	0	36	0	43	0	27	118	25	61	8	360
Apprch %	57.1	42.9	0	45.6	0	54.4	0	18.6	81.4	26.6	64.9	8.5	
Total %	6.7	5	0	10	0	11.9	0	7.5	32.8	6.9	16.9	2.2	
Cars	24	18	0	34	0	42	0	27	114	25	61	7	352
% Cars	100	100	0	94.4	0	97.7	0	100	96.6	100	100	87.5	97.8
Trucks	0	0	0	2	0	1	0	0	4	0	0	1	8
% Trucks	0	0	0	5.6	0	2.3	0	0	3.4	0	0	12.5	2.2

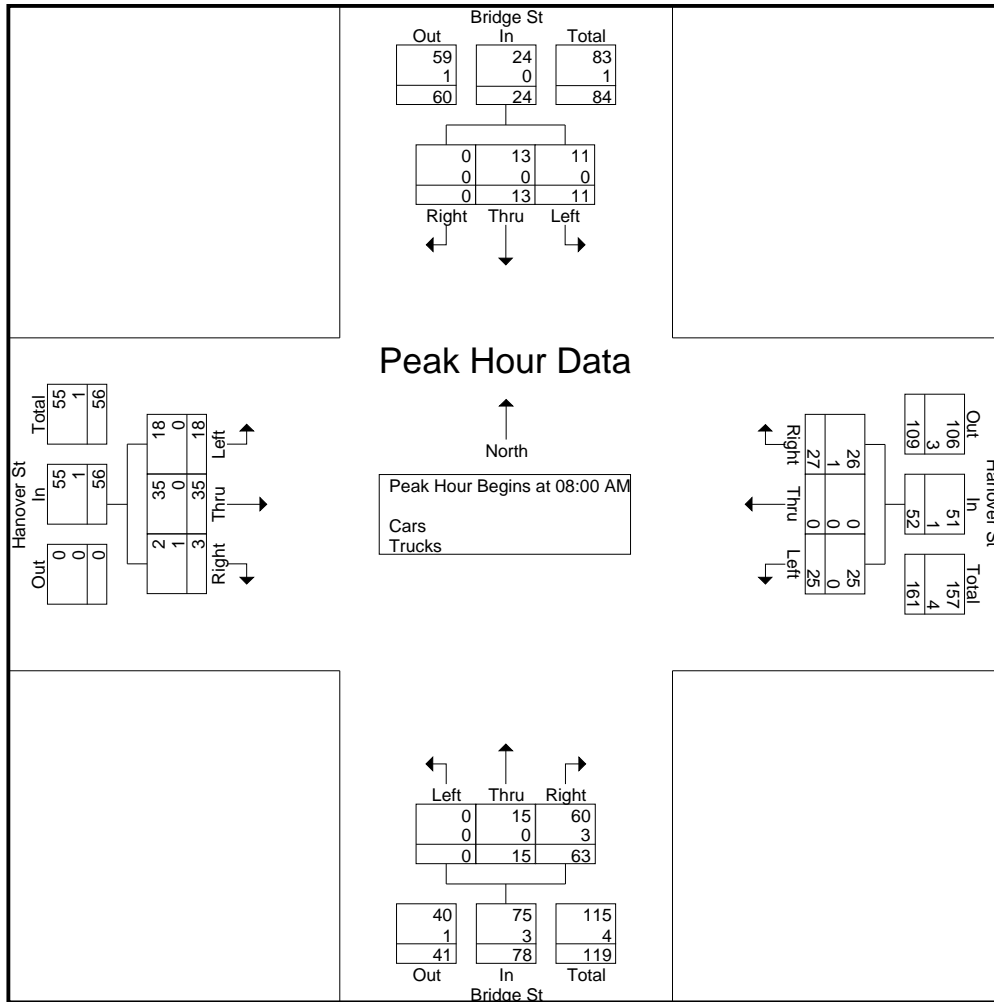
Start Time	Bridge St From North				Hanover St From East				Bridge St From South				Hanover St From West				Int. Total
	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 08:00 AM																	
08:00 AM	2	3	0	5	6	0	7	13	0	3	14	17	1	9	1	11	46
08:15 AM	3	3	0	6	5	0	9	14	0	3	24	27	4	9	1	14	61
08:30 AM	1	4	0	5	5	0	6	11	0	3	13	16	7	9	0	16	48
08:45 AM	5	3	0	8	9	0	5	14	0	6	12	18	6	8	1	15	55
Total Volume	11	13	0	24	25	0	27	52	0	15	63	78	18	35	3	56	210
% App. Total	45.8	54.2	0		48.1	0	51.9		0	19.2	80.8		32.1	62.5	5.4		
PHF	.550	.813	.000	.750	.694	.000	.750	.929	.000	.625	.656	.722	.643	.972	.750	.875	.861
Cars	11	13	0	24	25	0	26	51	0	15	60	75	18	35	2	55	205
% Cars	100	100	0	100	100	0	96.3	98.1	0	100	95.2	96.2	100	100	66.7	98.2	97.6
Trucks	0	0	0	0	0	0	1	1	0	0	3	3	0	0	1	1	5
% Trucks	0	0	0	0	0	0	3.7	1.9	0	0	4.8	3.8	0	0	33.3	1.8	2.4

Accurate Counts

978-664-2565

N/S Street : Bridge Street
 E/W Street : Hanover Street
 City/State : Portsmouth, NH
 Weather : Rain / Cloudy

File Name : 10068003
 Site Code : 10068003
 Start Date : 8/6/2024
 Page No : 2



Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

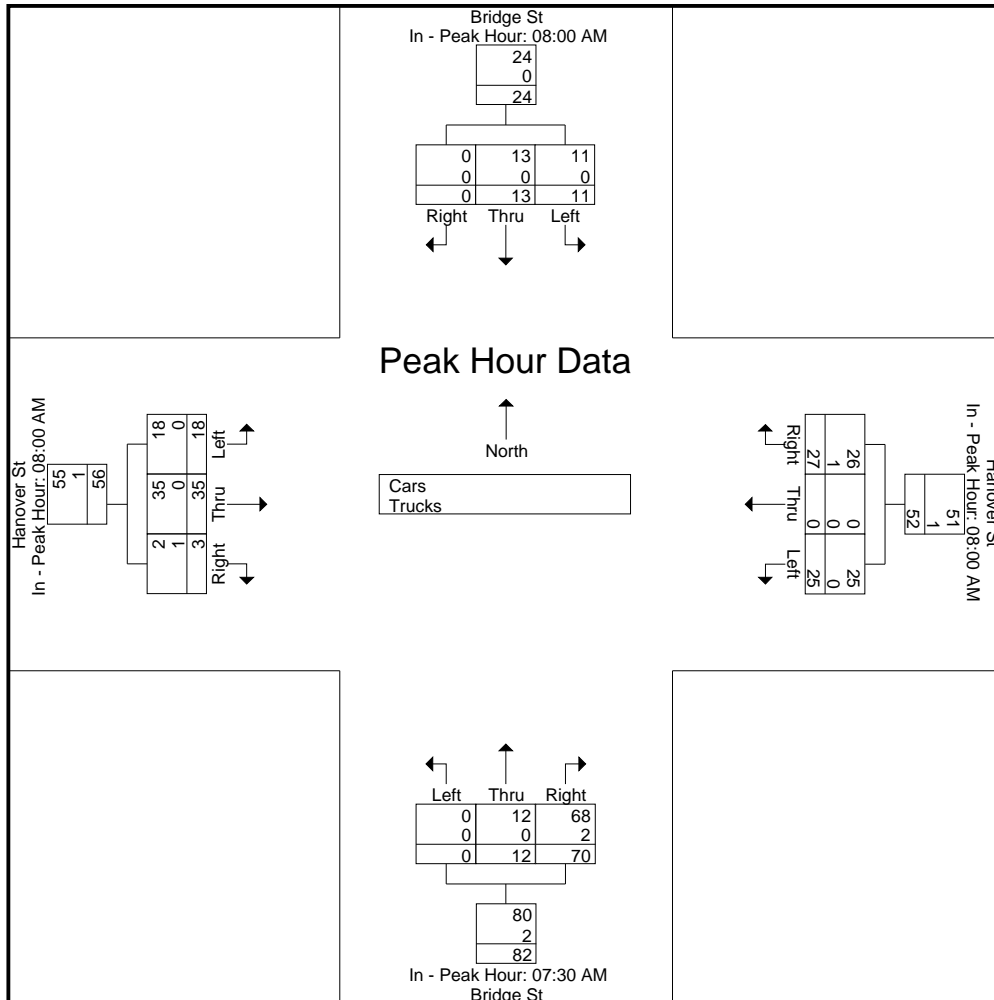
	08:00 AM				08:00 AM				07:30 AM				08:00 AM			
+0 mins.	2	3	0	5	6	0	7	13	0	2	17	19	1	9	1	11
+15 mins.	3	3	0	6	5	0	9	14	0	4	15	19	4	9	1	14
+30 mins.	1	4	0	5	5	0	6	11	0	3	14	17	7	9	0	16
+45 mins.	5	3	0	8	9	0	5	14	0	3	24	27	6	8	1	15
Total Volume	11	13	0	24	25	0	27	52	0	12	70	82	18	35	3	56
% App. Total	45.8	54.2	0		48.1	0	51.9		0	14.6	85.4		32.1	62.5	5.4	
PHF	.550	.813	.000	.750	.694	.000	.750	.929	.000	.750	.729	.759	.643	.972	.750	.875
Cars	11	13	0	24	25	0	26	51	0	12	68	80	18	35	2	55
% Cars	100	100	0	100	100	0	96.3	98.1	0	100	97.1	97.6	100	100	66.7	98.2
Trucks	0	0	0	0	0	0	1	1	0	0	2	2	0	0	1	1
% Trucks	0	0	0	0	0	0	3.7	1.9	0	0	2.9	2.4	0	0	33.3	1.8

Accurate Counts

978-664-2565

N/S Street : Bridge Street
 E/W Street : Hanover Street
 City/State : Portsmouth, NH
 Weather : Rain / Cloudy

File Name : 10068003
 Site Code : 10068003
 Start Date : 8/6/2024
 Page No : 3



Accurate Counts

978-664-2565

N/S Street : Bridge Street
 E/W Street : Hanover Street
 City/State : Portsmouth, NH
 Weather : Rain / Cloudy

File Name : 10068003
 Site Code : 10068003
 Start Date : 8/6/2024
 Page No : 4

Groups Printed- Cars

Start Time	Bridge St From North			Hanover St From East			Bridge St From South			Hanover St From West			Int. Total
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
07:00 AM	1	0	0	2	0	3	0	3	9	1	7	0	26
07:15 AM	2	3	0	2	0	2	0	3	13	0	8	1	34
07:30 AM	7	1	0	4	0	6	0	2	17	4	6	2	49
07:45 AM	3	1	0	1	0	5	0	4	15	2	5	2	38
Total	13	5	0	9	0	16	0	12	54	7	26	5	147
08:00 AM	2	3	0	6	0	7	0	3	13	1	9	0	44
08:15 AM	3	3	0	5	0	9	0	3	23	4	9	1	60
08:30 AM	1	4	0	5	0	6	0	3	13	7	9	0	48
08:45 AM	5	3	0	9	0	4	0	6	11	6	8	1	53
Total	11	13	0	25	0	26	0	15	60	18	35	2	205
Grand Total	24	18	0	34	0	42	0	27	114	25	61	7	352
Apprch %	57.1	42.9	0	44.7	0	55.3	0	19.1	80.9	26.9	65.6	7.5	
Total %	6.8	5.1	0	9.7	0	11.9	0	7.7	32.4	7.1	17.3	2	

Start Time	Bridge St From North				Hanover St From East				Bridge St From South				Hanover St From West				Int. Total
	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 08:00 AM																	
08:00 AM	2	3	0	5	6	0	7	13	0	3	13	16	1	9	0	10	44
08:15 AM	3	3	0	6	5	0	9	14	0	3	23	26	4	9	1	14	60
08:30 AM	1	4	0	5	5	0	6	11	0	3	13	16	7	9	0	16	48
08:45 AM	5	3	0	8	9	0	4	13	0	6	11	17	6	8	1	15	53
Total Volume	11	13	0	24	25	0	26	51	0	15	60	75	18	35	2	55	205
% App. Total	45.8	54.2	0		49	0	51		0	20	80		32.7	63.6	3.6		
PHF	.550	.813	.000	.750	.694	.000	.722	.911	.000	.625	.652	.721	.643	.972	.500	.859	.854

Accurate Counts

978-664-2565

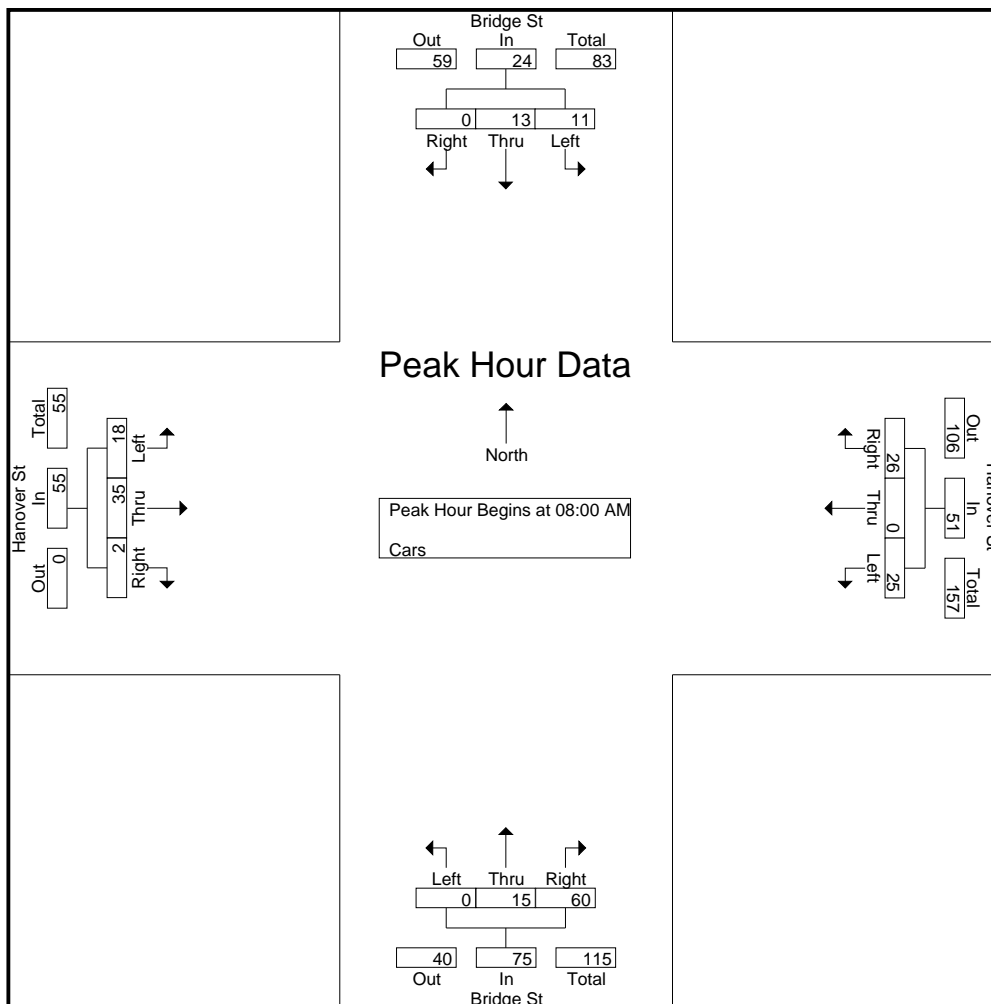
File Name : 10068003

Site Code : 10068003

Start Date : 8/6/2024

Page No : 5

N/S Street : Bridge Street
 E/W Street : Hanover Street
 City/State : Portsmouth, NH
 Weather : Rain / Cloudy



Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	08:00 AM				08:00 AM				07:30 AM				08:00 AM			
+0 mins.	2	3	0	5	6	0	7	13	0	2	17	19	1	9	0	10
+15 mins.	3	3	0	6	5	0	9	14	0	4	15	19	4	9	1	14
+30 mins.	1	4	0	5	5	0	6	11	0	3	13	16	7	9	0	16
+45 mins.	5	3	0	8	9	0	4	13	0	3	23	26	6	8	1	15
Total Volume	11	13	0	24	25	0	26	51	0	12	68	80	18	35	2	55
% App. Total	45.8	54.2	0		49	0	51		0	15	85		32.7	63.6	3.6	
PHF	.550	.813	.000	.750	.694	.000	.722	.911	.000	.750	.739	.769	.643	.972	.500	.859

Accurate Counts

978-664-2565

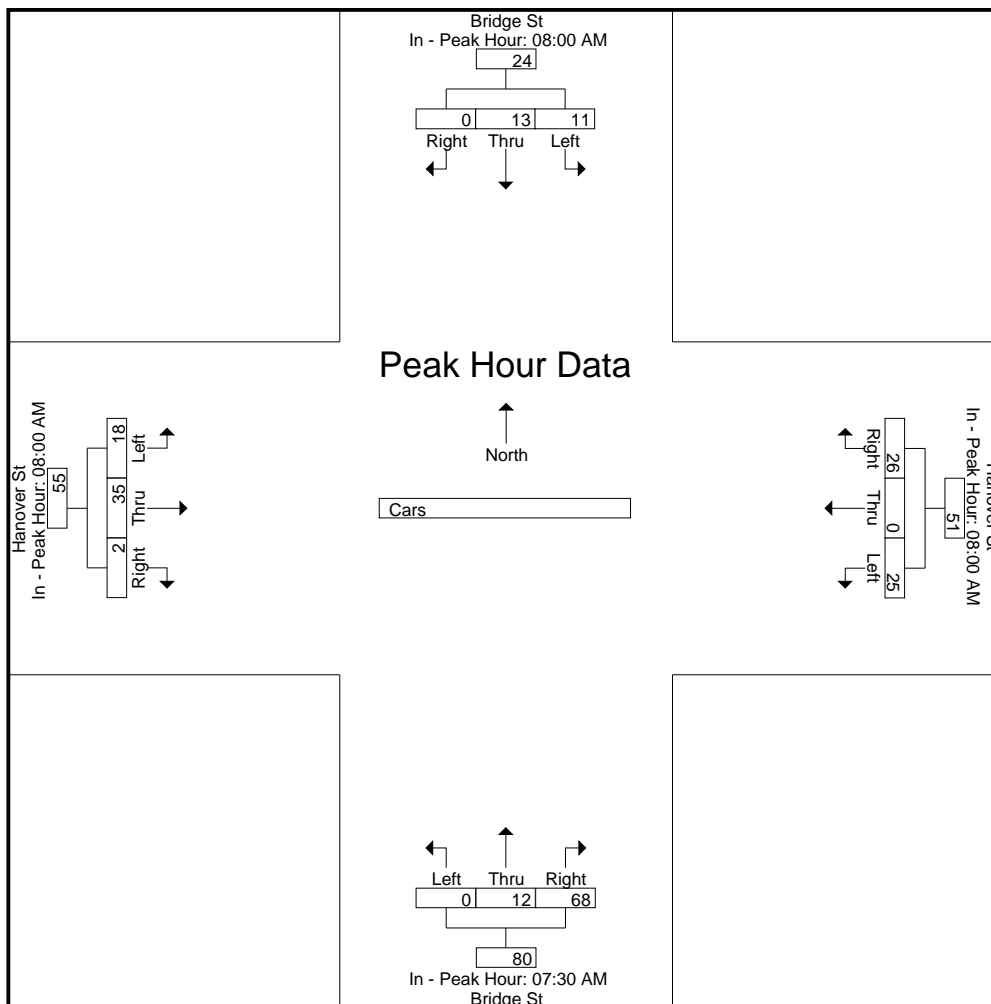
File Name : 10068003

Site Code : 10068003

Start Date : 8/6/2024

Page No : 6

N/S Street : Bridge Street
 E/W Street : Hanover Street
 City/State : Portsmouth, NH
 Weather : Rain / Cloudy



Accurate Counts

978-664-2565

N/S Street : Bridge Street
 E/W Street : Hanover Street
 City/State : Portsmouth, NH
 Weather : Rain / Cloudy

File Name : 10068003
 Site Code : 10068003
 Start Date : 8/6/2024
 Page No : 7

Groups Printed- Trucks

Start Time	Bridge St From North			Hanover St From East			Bridge St From South			Hanover St From West			Int. Total
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
07:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
07:15 AM	0	0	0	0	0	0	0	0	1	0	0	0	1
07:30 AM	0	0	0	1	0	0	0	0	0	0	0	0	1
07:45 AM	0	0	0	1	0	0	0	0	0	0	0	0	1
Total	0	0	0	2	0	0	0	0	1	0	0	0	3
08:00 AM	0	0	0	0	0	0	0	0	1	0	0	1	2
08:15 AM	0	0	0	0	0	0	0	0	1	0	0	0	1
08:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
08:45 AM	0	0	0	0	0	1	0	0	1	0	0	0	2
Total	0	0	0	0	0	1	0	0	3	0	0	1	5
Grand Total	0	0	0	2	0	1	0	0	4	0	0	1	8
Apprch %	0	0	0	66.7	0	33.3	0	0	100	0	0	100	
Total %	0	0	0	25	0	12.5	0	0	50	0	0	12.5	

Start Time	Bridge St From North				Hanover St From East				Bridge St From South				Hanover St From West				Int. Total	
	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total		
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																		
Peak Hour for Entire Intersection Begins at 07:15 AM																		
07:15 AM	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1
07:30 AM	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	1
07:45 AM	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	1
08:00 AM	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	1	1	2
Total Volume	0	0	0	0	2	0	0	2	0	0	2	2	0	0	1	1	1	5
% App. Total	0	0	0	0	100	0	0	100	0	0	100	100	0	0	100	100	100	
PHF	.000	.000	.000	.000	.500	.000	.000	.500	.000	.000	.500	.500	.000	.000	.250	.250	.250	.625

Accurate Counts

978-664-2565

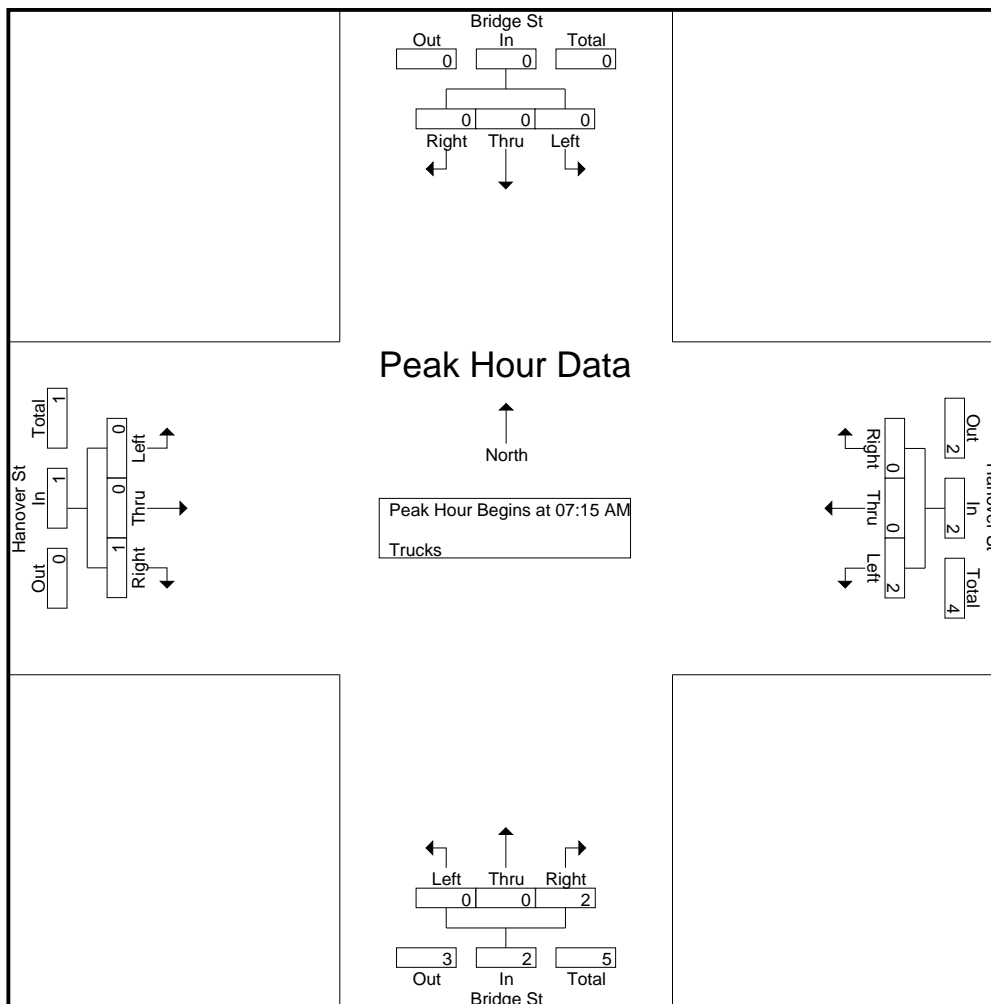
File Name : 10068003

Site Code : 10068003

Start Date : 8/6/2024

Page No : 8

N/S Street : Bridge Street
 E/W Street : Hanover Street
 City/State : Portsmouth, NH
 Weather : Rain / Cloudy



Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	07:00 AM				07:00 AM				08:00 AM				07:15 AM			
+0 mins.	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
+30 mins.	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	1	0	0	1	0	0	1	1	0	0	1	1
Total Volume	0	0	0	0	2	0	0	2	0	0	3	3	0	0	1	1
% App. Total	0	0	0	0	100	0	0	0	0	0	100	0	0	0	100	0
PHF	.000	.000	.000	.000	.500	.000	.000	.500	.000	.000	.750	.750	.000	.000	.250	.250

Accurate Counts

978-664-2565

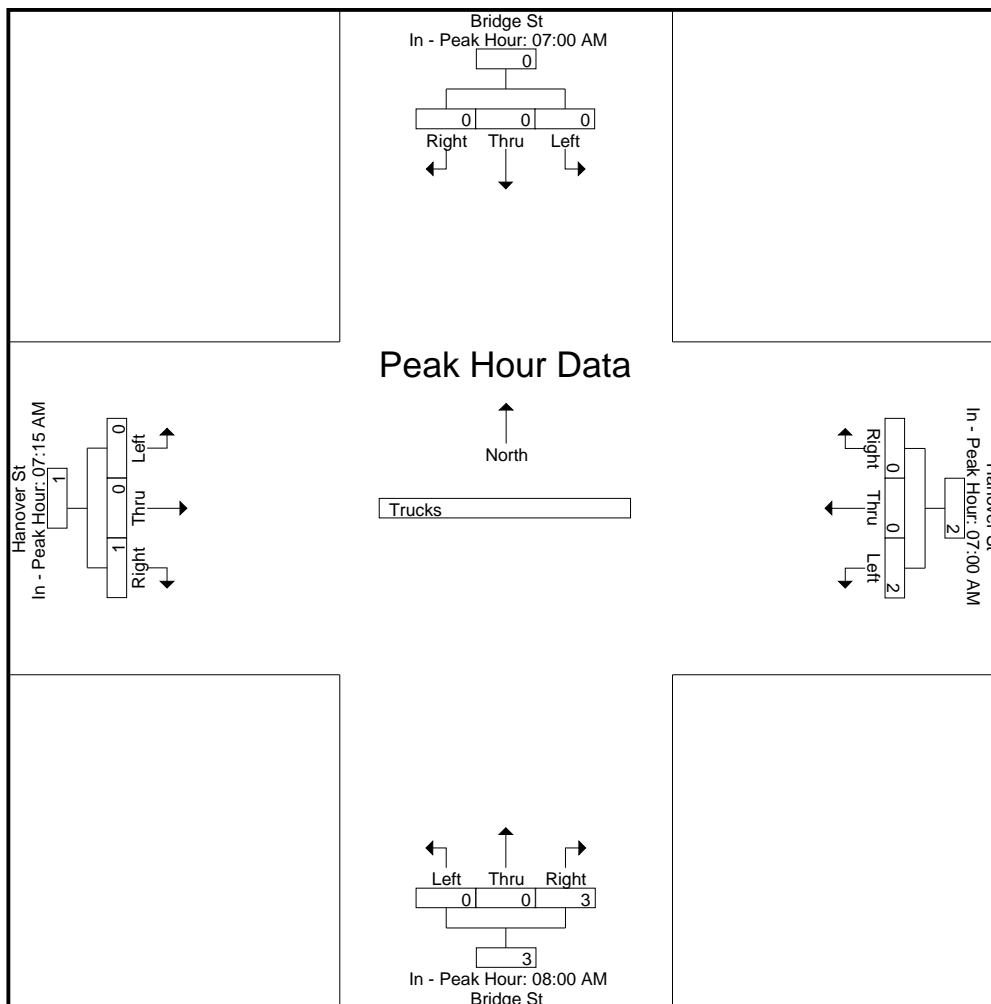
File Name : 10068003

Site Code : 10068003

Start Date : 8/6/2024

Page No : 9

N/S Street : Bridge Street
E/W Street : Hanover Street
City/State : Portsmouth, NH
Weather : Rain / Cloudy



Accurate Counts

978-664-2565

N/S Street : Bridge Street
 E/W Street : Hanover Street
 City/State : Portsmouth, NH
 Weather : Rain / Cloudy

File Name : 10068003
 Site Code : 10068003
 Start Date : 8/6/2024
 Page No : 10

Groups Printed- Bikes Peds

Start Time	Bridge St From North				Hanover St From East				Bridge St From South				Hanover St From West				Exclu. Total	Inclu. Total	Int. Total
	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds			
07:00 AM	0	0	0	2	0	0	0	3	0	0	0	3	0	0	0	3	11	0	11
07:15 AM	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	2	4	0	4
07:30 AM	0	0	0	2	0	0	0	2	0	0	0	4	0	0	0	4	12	0	12
07:45 AM	0	0	0	0	0	0	0	2	0	0	0	7	0	0	0	5	14	0	14
Total	0	0	0	5	0	0	0	7	0	0	0	15	0	0	0	14	41	0	41
08:00 AM	0	0	0	1	0	0	0	2	0	0	0	7	0	0	0	7	17	0	17
08:15 AM	0	0	0	3	0	0	0	4	0	0	0	8	0	0	0	8	23	0	23
08:30 AM	0	0	0	3	0	0	0	7	0	0	0	6	0	0	0	9	25	0	25
08:45 AM	0	0	0	2	0	0	0	10	0	0	0	9	0	0	0	4	25	0	25
Total	0	0	0	9	0	0	0	23	0	0	0	30	0	0	0	28	90	0	90
Grand Total	0	0	0	14	0	0	0	30	0	0	0	45	0	0	0	42	131	0	131
Apprch %	0	0	0		0	0	0		0	0	0		0	0	0				
Total %																	100	0	

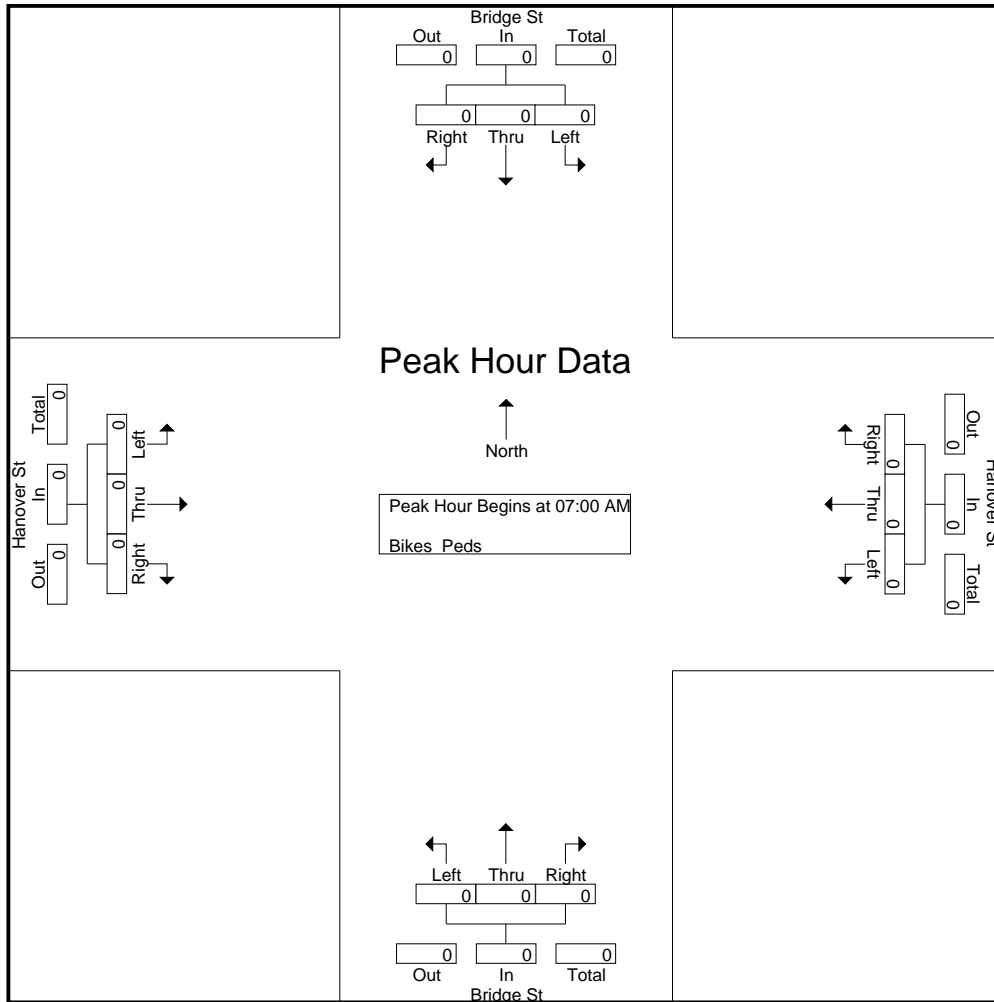
Start Time	Bridge St From North				Hanover St From East				Bridge St From South				Hanover St From West				Int. Total	
	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total		
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																		
Peak Hour for Entire Intersection Begins at 07:00 AM																		
07:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0	0		0	0	0		0	0	0		0	0	0			
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

Accurate Counts

978-664-2565

N/S Street : Bridge Street
 E/W Street : Hanover Street
 City/State : Portsmouth, NH
 Weather : Rain / Cloudy

File Name : 10068003
 Site Code : 10068003
 Start Date : 8/6/2024
 Page No : 11



Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	07:00 AM				07:00 AM				07:00 AM				07:00 AM			
+0 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

Accurate Counts

978-664-2565

File Name : 10068003

Site Code : 10068003

Start Date : 8/6/2024

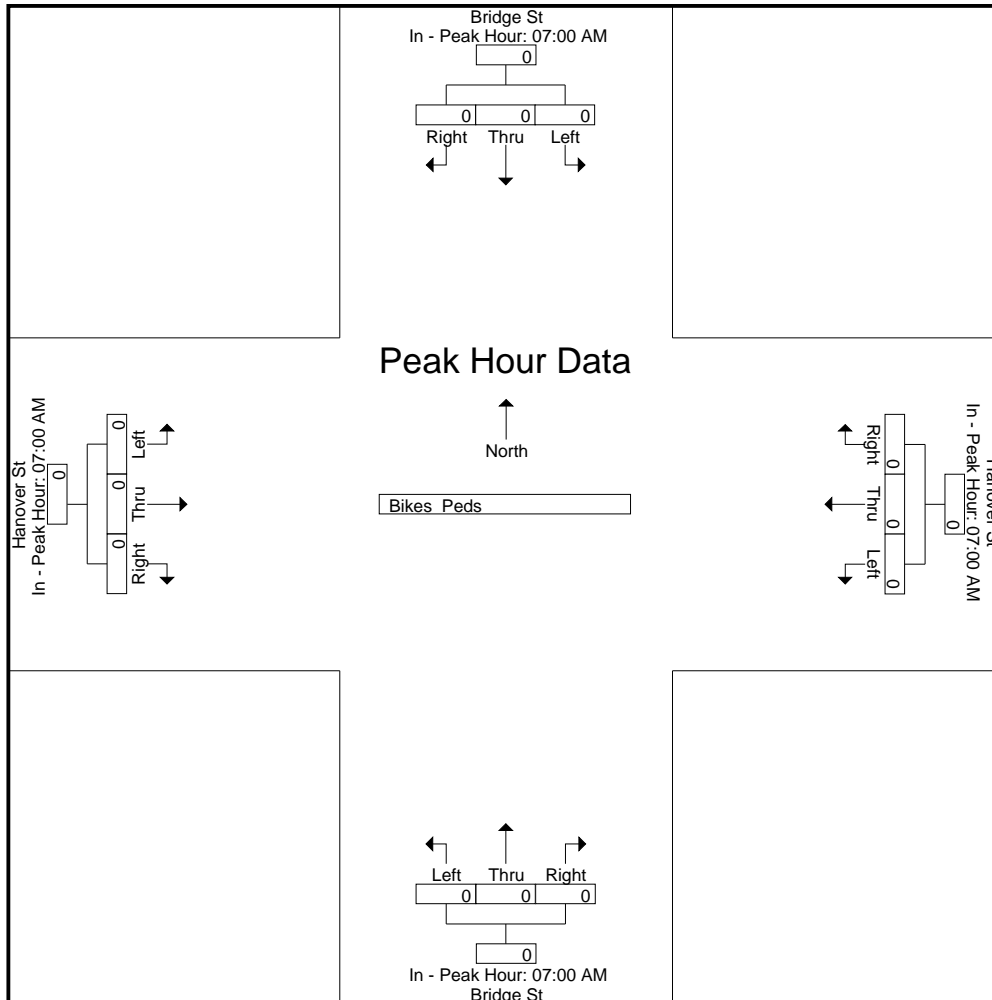
Page No : 12

N/S Street : Bridge Street

E/W Street : Hanover Street

City/State : Portsmouth, NH

Weather : Rain / Cloudy



Accurate Counts

978-664-2565

N/S Street : Bridge Street
 E/W Street : Hanover Street
 City/State : Portsmouth, NH
 Weather : Rain / Cloudy

File Name : 10068003
 Site Code : 10068003
 Start Date : 8/6/2024
 Page No : 1

Groups Printed- Cars - Trucks

Start Time	Bridge St From North			Hanover St From East			Bridge St From South			Hanover St From West			Int. Total
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
03:00 PM	5	6	0	18	0	6	0	6	22	6	10	1	80
03:15 PM	4	12	0	5	0	3	0	4	36	9	7	2	82
03:30 PM	4	7	0	14	0	4	0	6	33	4	11	1	84
03:45 PM	3	7	0	14	0	3	0	3	32	11	7	1	81
Total	16	32	0	51	0	16	0	19	123	30	35	5	327
04:00 PM	9	10	0	14	0	4	0	7	32	6	9	3	94
04:15 PM	2	12	0	16	0	5	0	13	27	3	11	1	90
04:30 PM	5	11	0	16	1	4	0	9	35	5	16	4	106
04:45 PM	3	18	0	2	0	0	0	7	6	4	4	4	48
Total	19	51	0	48	1	13	0	36	100	18	40	12	338
05:00 PM	6	22	0	21	0	4	0	7	8	5	9	3	85
05:15 PM	4	11	0	13	0	3	0	11	10	3	3	2	60
05:30 PM	4	14	0	12	0	3	0	7	14	2	3	3	62
05:45 PM	0	10	0	17	0	5	0	8	13	2	2	3	60
Total	14	57	0	63	0	15	0	33	45	12	17	11	267
Grand Total	49	140	0	162	1	44	0	88	268	60	92	28	932
Apprch %	25.9	74.1	0	78.3	0.5	21.3	0	24.7	75.3	33.3	51.1	15.6	
Total %	5.3	15	0	17.4	0.1	4.7	0	9.4	28.8	6.4	9.9	3	
Cars	49	139	0	160	1	43	0	88	267	60	91	24	922
% Cars	100	99.3	0	98.8	100	97.7	0	100	99.6	100	98.9	85.7	98.9
Trucks	0	1	0	2	0	1	0	0	1	0	1	4	10
% Trucks	0	0.7	0	1.2	0	2.3	0	0	0.4	0	1.1	14.3	1.1

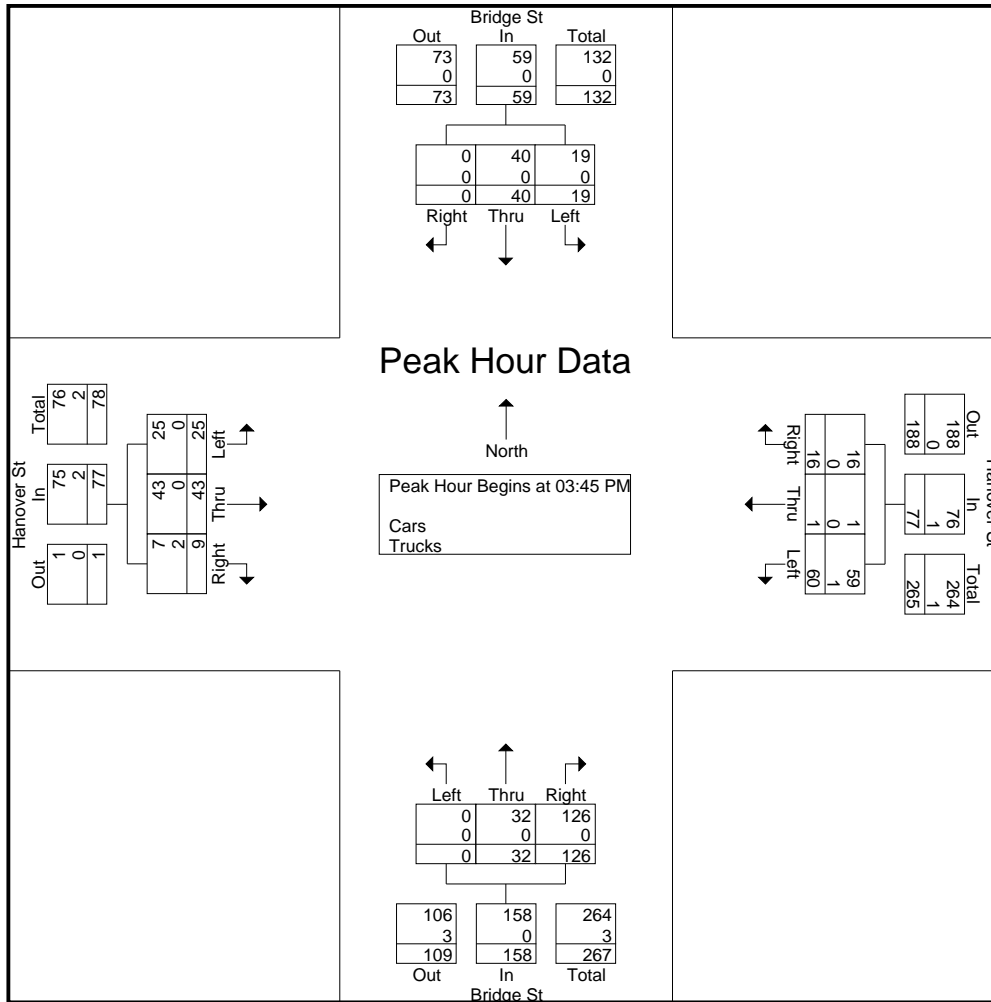
Start Time	Bridge St From North				Hanover St From East				Bridge St From South				Hanover St From West				Int. Total
	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	
Peak Hour Analysis From 03:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 03:45 PM																	
03:45 PM	3	7	0	10	14	0	3	17	0	3	32	35	11	7	1	19	81
04:00 PM	9	10	0	19	14	0	4	18	0	7	32	39	6	9	3	18	94
04:15 PM	2	12	0	14	16	0	5	21	0	13	27	40	3	11	1	15	90
04:30 PM	5	11	0	16	16	1	4	21	0	9	35	44	5	16	4	25	106
Total Volume	19	40	0	59	60	1	16	77	0	32	126	158	25	43	9	77	371
% App. Total	32.2	67.8	0		77.9	1.3	20.8		0	20.3	79.7		32.5	55.8	11.7		
PHF	.528	.833	.000	.776	.938	.250	.800	.917	.000	.615	.900	.898	.568	.672	.563	.770	.875
Cars	19	40	0	59	59	1	16	76	0	32	126	158	25	43	7	75	368
% Cars	100	100	0	100	98.3	100	100	98.7	0	100	100	100	100	100	77.8	97.4	99.2
Trucks	0	0	0	0	1	0	0	1	0	0	0	0	0	0	2	2	3
% Trucks	0	0	0	0	1.7	0	0	1.3	0	0	0	0	0	0	22.2	2.6	0.8

Accurate Counts

978-664-2565

N/S Street : Bridge Street
 E/W Street : Hanover Street
 City/State : Portsmouth, NH
 Weather : Rain / Cloudy

File Name : 10068003
 Site Code : 10068003
 Start Date : 8/6/2024
 Page No : 2



Peak Hour Analysis From 03:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	04:45 PM				05:00 PM				03:45 PM				03:45 PM			
+0 mins.	3	18	0	21	21	0	4	25	0	3	32	35	11	7	1	19
+15 mins.	6	22	0	28	13	0	3	16	0	7	32	39	6	9	3	18
+30 mins.	4	11	0	15	12	0	3	15	0	13	27	40	3	11	1	15
+45 mins.	4	14	0	18	17	0	5	22	0	9	35	44	5	16	4	25
Total Volume	17	65	0	82	63	0	15	78	0	32	126	158	25	43	9	77
% App. Total	20.7	79.3	0		80.8	0	19.2		0	20.3	79.7		32.5	55.8	11.7	
PHF	.708	.739	.000	.732	.750	.000	.750	.780	.000	.615	.900	.898	.568	.672	.563	.770
Cars	17	64	0	81	63	0	15	78	0	32	126	158	25	43	7	75
% Cars	100	98.5	0	98.8	100	0	100	100	0	100	100	100	100	100	77.8	97.4
Trucks	0	1	0	1	0	0	0	0	0	0	0	0	0	0	2	2
% Trucks	0	1.5	0	1.2	0	0	0	0	0	0	0	0	0	0	22.2	2.6

Accurate Counts

978-664-2565

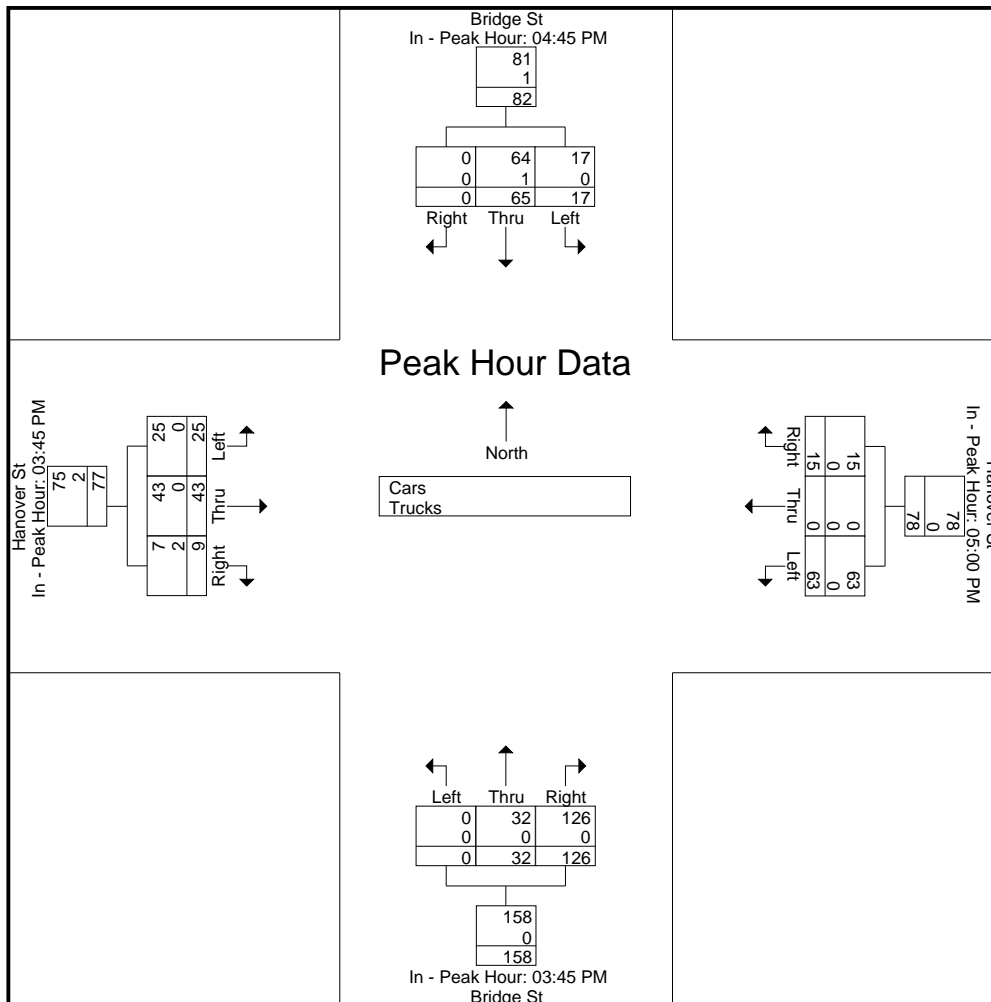
File Name : 10068003

Site Code : 10068003

Start Date : 8/6/2024

Page No : 3

N/S Street : Bridge Street
 E/W Street : Hanover Street
 City/State : Portsmouth, NH
 Weather : Rain / Cloudy



Accurate Counts

978-664-2565

N/S Street : Bridge Street
 E/W Street : Hanover Street
 City/State : Portsmouth, NH
 Weather : Rain / Cloudy

File Name : 10068003
 Site Code : 10068003
 Start Date : 8/6/2024
 Page No : 4

Groups Printed- Cars

Start Time	Bridge St From North			Hanover St From East			Bridge St From South			Hanover St From West			Int. Total
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
03:00 PM	5	6	0	18	0	6	0	6	22	6	9	1	79
03:15 PM	4	12	0	5	0	2	0	4	36	9	7	1	80
03:30 PM	4	7	0	13	0	4	0	6	33	4	11	0	82
03:45 PM	3	7	0	14	0	3	0	3	32	11	7	0	80
Total	16	32	0	50	0	15	0	19	123	30	34	2	321
04:00 PM	9	10	0	13	0	4	0	7	32	6	9	2	92
04:15 PM	2	12	0	16	0	5	0	13	27	3	11	1	90
04:30 PM	5	11	0	16	1	4	0	9	35	5	16	4	106
04:45 PM	3	18	0	2	0	0	0	7	6	4	4	4	48
Total	19	51	0	47	1	13	0	36	100	18	40	11	336
05:00 PM	6	22	0	21	0	4	0	7	7	5	9	3	84
05:15 PM	4	10	0	13	0	3	0	11	10	3	3	2	59
05:30 PM	4	14	0	12	0	3	0	7	14	2	3	3	62
05:45 PM	0	10	0	17	0	5	0	8	13	2	2	3	60
Total	14	56	0	63	0	15	0	33	44	12	17	11	265
Grand Total	49	139	0	160	1	43	0	88	267	60	91	24	922
Apprch %	26.1	73.9	0	78.4	0.5	21.1	0	24.8	75.2	34.3	52	13.7	
Total %	5.3	15.1	0	17.4	0.1	4.7	0	9.5	29	6.5	9.9	2.6	

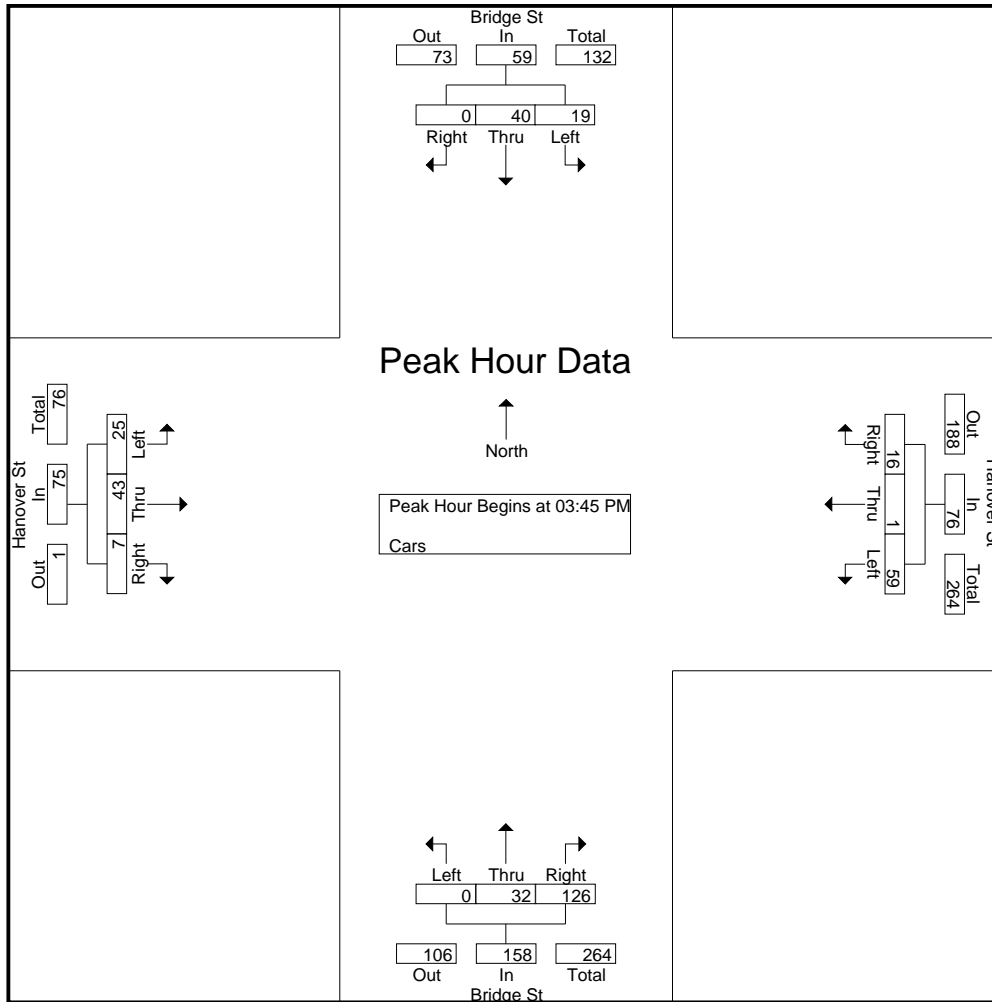
Start Time	Bridge St From North				Hanover St From East				Bridge St From South				Hanover St From West				Int. Total
	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	
Peak Hour Analysis From 03:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 03:45 PM																	
03:45 PM	3	7	0	10	14	0	3	17	0	3	32	35	11	7	0	18	80
04:00 PM	9	10	0	19	13	0	4	17	0	7	32	39	6	9	2	17	92
04:15 PM	2	12	0	14	16	0	5	21	0	13	27	40	3	11	1	15	90
04:30 PM	5	11	0	16	16	1	4	21	0	9	35	44	5	16	4	25	106
Total Volume	19	40	0	59	59	1	16	76	0	32	126	158	25	43	7	75	368
% App. Total	32.2	67.8	0	77.6	1.3	21.1	0	20.3	79.7	33.3	57.3	9.3	33.3	57.3	9.3	9.3	9.3
PHF	.528	.833	.000	.776	.922	.250	.800	.905	.000	.615	.900	.898	.568	.672	.438	.750	.868

Accurate Counts

978-664-2565

N/S Street : Bridge Street
 E/W Street : Hanover Street
 City/State : Portsmouth, NH
 Weather : Rain / Cloudy

File Name : 10068003
 Site Code : 10068003
 Start Date : 8/6/2024
 Page No : 5



Peak Hour Analysis From 03:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	04:45 PM				05:00 PM				03:45 PM				03:45 PM			
+0 mins.	3	18	0	21	21	0	4	25	0	3	32	35	11	7	0	18
+15 mins.	6	22	0	28	13	0	3	16	0	7	32	39	6	9	2	17
+30 mins.	4	10	0	14	12	0	3	15	0	13	27	40	3	11	1	15
+45 mins.	4	14	0	18	17	0	5	22	0	9	35	44	5	16	4	25
Total Volume	17	64	0	81	63	0	15	78	0	32	126	158	25	43	7	75
% App. Total	21	79	0		80.8	0	19.2		0	20.3	79.7		33.3	57.3	9.3	
PHF	.708	.727	.000	.723	.750	.000	.750	.780	.000	.615	.900	.898	.568	.672	.438	.750

Accurate Counts

978-664-2565

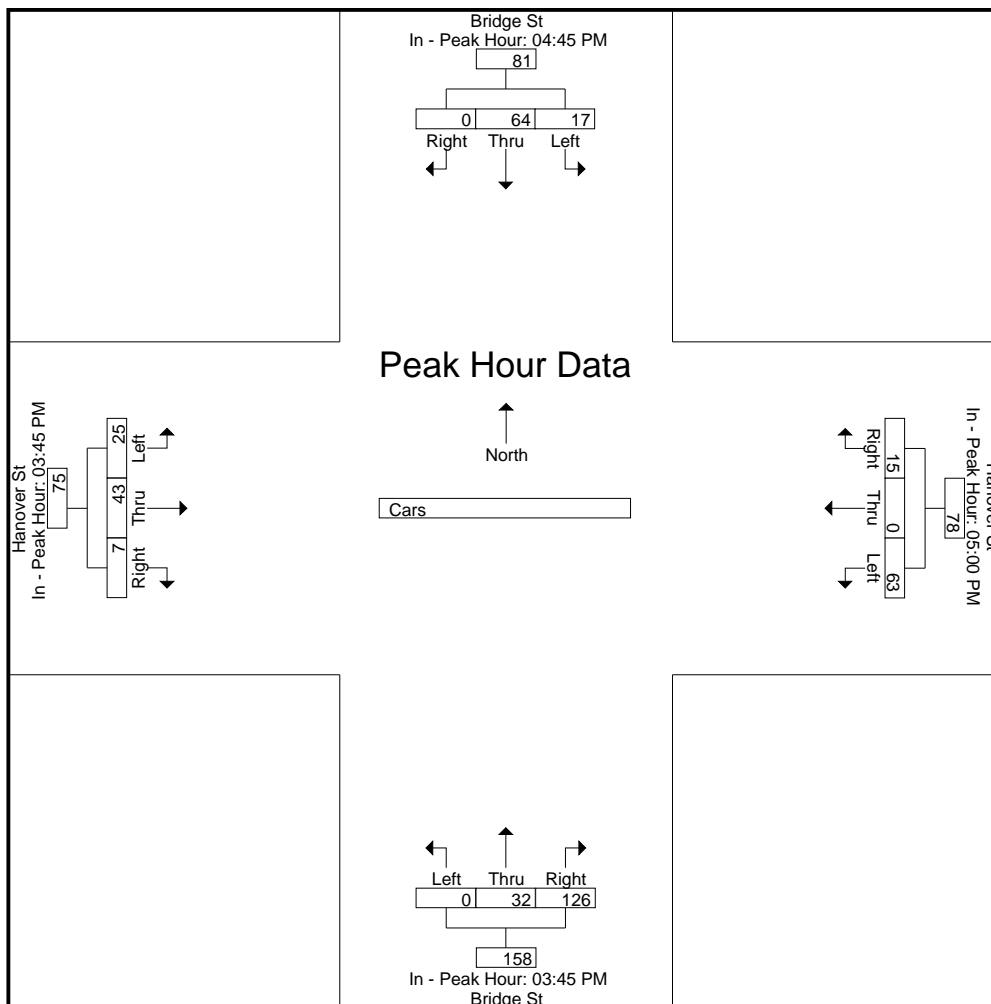
File Name : 10068003

Site Code : 10068003

Start Date : 8/6/2024

Page No : 6

N/S Street : Bridge Street
 E/W Street : Hanover Street
 City/State : Portsmouth, NH
 Weather : Rain / Cloudy



Accurate Counts

978-664-2565

N/S Street : Bridge Street
 E/W Street : Hanover Street
 City/State : Portsmouth, NH
 Weather : Rain / Cloudy

File Name : 10068003
 Site Code : 10068003
 Start Date : 8/6/2024
 Page No : 7

Groups Printed- Trucks

Start Time	Bridge St From North			Hanover St From East			Bridge St From South			Hanover St From West			Int. Total
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
03:00 PM	0	0	0	0	0	0	0	0	0	0	1	0	1
03:15 PM	0	0	0	0	0	1	0	0	0	0	0	1	2
03:30 PM	0	0	0	1	0	0	0	0	0	0	0	1	2
03:45 PM	0	0	0	0	0	0	0	0	0	0	0	1	1
Total	0	0	0	1	0	1	0	0	0	0	1	3	6
04:00 PM	0	0	0	1	0	0	0	0	0	0	0	1	2
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	1	0	0	0	0	0	0	0	1	2
05:00 PM	0	0	0	0	0	0	0	0	1	0	0	0	1
05:15 PM	0	1	0	0	0	0	0	0	0	0	0	0	1
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	1	0	0	0	0	0	0	1	0	0	0	2
Grand Total	0	1	0	2	0	1	0	0	1	0	1	4	10
Apprch %	0	100	0	66.7	0	33.3	0	0	100	0	20	80	
Total %	0	10	0	20	0	10	0	0	10	0	10	40	

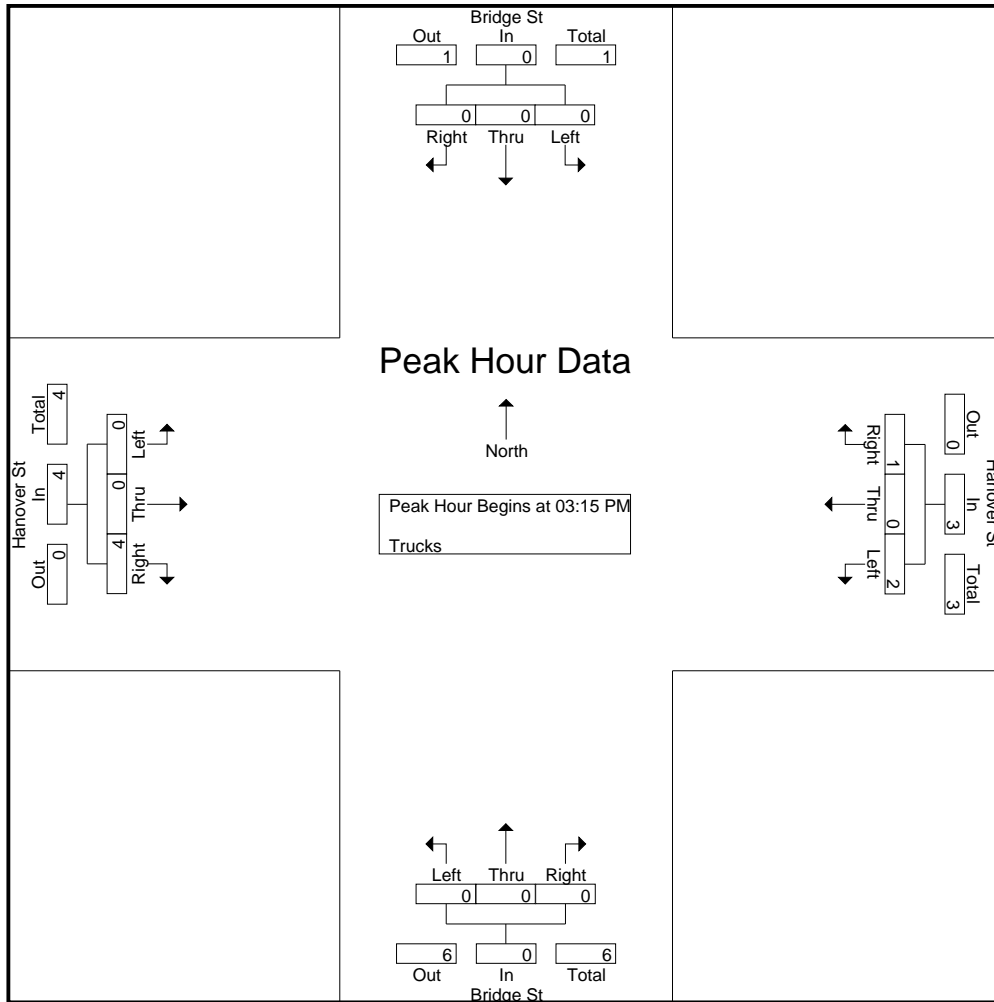
Start Time	Bridge St From North				Hanover St From East				Bridge St From South				Hanover St From West				Int. Total
	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	
Peak Hour Analysis From 03:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 03:15 PM																	
03:15 PM	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	1	2
03:30 PM	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1	1	2
03:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
04:00 PM	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1	1	2
Total Volume	0	0	0	0	2	0	1	3	0	0	0	0	0	0	4	4	7
% App. Total	0	0	0		66.7	0	33.3		0	0	0		0	0	100		
PHF	.000	.000	.000	.000	.500	.000	.250	.750	.000	.000	.000	.000	.000	.000	1.00	1.00	.875

Accurate Counts

978-664-2565

N/S Street : Bridge Street
 E/W Street : Hanover Street
 City/State : Portsmouth, NH
 Weather : Rain / Cloudy

File Name : 10068003
 Site Code : 10068003
 Start Date : 8/6/2024
 Page No : 8



Peak Hour Analysis From 03:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	04:30 PM				03:15 PM				04:15 PM				03:00 PM			
+0 mins.	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	1
+15 mins.	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1	1
+30 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
+45 mins.	0	1	0	1	1	0	0	1	0	0	1	1	0	0	1	1
Total Volume	0	1	0	1	2	0	1	3	0	0	1	1	0	1	3	4
% App. Total	0	100	0		66.7	0	33.3		0	0	100		0	25	75	
PHF	.000	.250	.000	.250	.500	.000	.250	.750	.000	.000	.250	.250	.000	.250	.750	1.000

Accurate Counts

978-664-2565

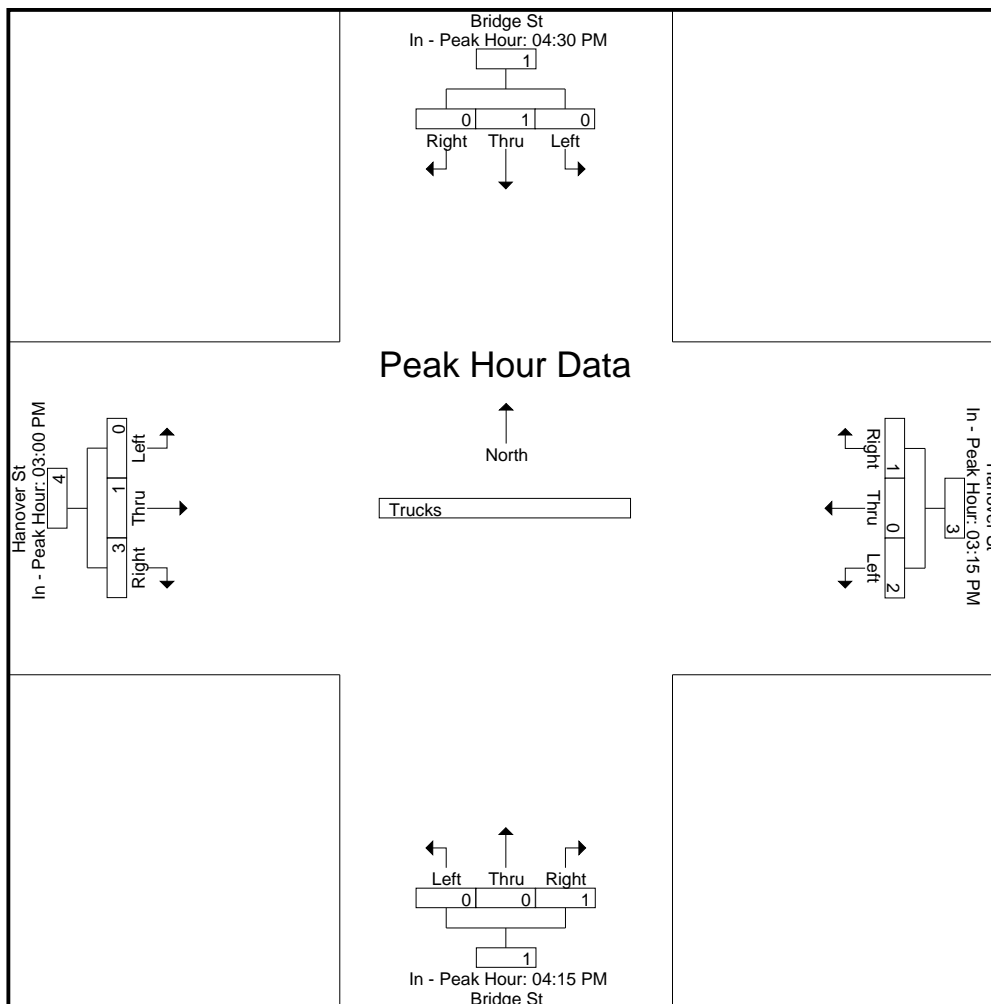
File Name : 10068003

Site Code : 10068003

Start Date : 8/6/2024

Page No : 9

N/S Street : Bridge Street
E/W Street : Hanover Street
City/State : Portsmouth, NH
Weather : Rain / Cloudy



Accurate Counts

978-664-2565

N/S Street : Bridge Street
 E/W Street : Hanover Street
 City/State : Portsmouth, NH
 Weather : Rain / Cloudy

File Name : 10068003
 Site Code : 10068003
 Start Date : 8/6/2024
 Page No : 10

Groups Printed- Bikes Peds

Start Time	Bridge St From North				Hanover St From East				Bridge St From South				Hanover St From West				Exclu. Total	Inclu. Total	Int. Total
	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds			
03:00 PM	0	2	0	2	1	0	2	2	0	0	0	6	0	0	0	3	13	5	18
03:15 PM	0	0	0	6	0	0	0	6	0	0	0	13	0	0	0	7	32	0	32
03:30 PM	0	0	0	3	0	0	0	6	0	0	0	3	0	0	0	0	12	0	12
03:45 PM	0	0	0	7	0	0	0	9	0	0	1	9	0	0	0	2	27	1	28
Total	0	2	0	18	1	0	2	23	0	0	1	31	0	0	0	12	84	6	90
04:00 PM	0	0	0	6	0	1	0	5	0	0	0	7	0	0	0	4	22	1	23
04:15 PM	0	0	0	4	0	0	0	6	0	0	3	11	0	0	1	7	28	4	32
04:30 PM	0	0	0	1	0	0	0	3	0	0	0	15	0	0	0	7	26	0	26
04:45 PM	0	0	0	8	0	0	0	2	0	0	0	9	1	0	0	9	28	1	29
Total	0	0	0	19	0	1	0	16	0	0	3	42	1	0	1	27	104	6	110
05:00 PM	0	0	0	6	0	0	0	8	0	0	0	13	0	0	0	15	42	0	42
05:15 PM	0	0	0	7	0	0	0	13	0	0	0	4	0	0	0	4	28	0	28
05:30 PM	0	0	0	5	0	0	0	9	0	0	0	8	0	0	0	6	28	0	28
05:45 PM	0	0	0	4	0	0	0	5	0	0	0	11	0	0	0	1	21	0	21
Total	0	0	0	22	0	0	0	35	0	0	0	36	0	0	0	26	119	0	119
Grand Total	0	2	0	59	1	1	2	74	0	0	4	109	1	0	1	65	307	12	319
Apprch %	0	100	0		25	25	50		0	0	100		50	0	50				
Total %	0	16.7	0		8.3	8.3	16.7		0	0	33.3		8.3	0	8.3		96.2	3.8	

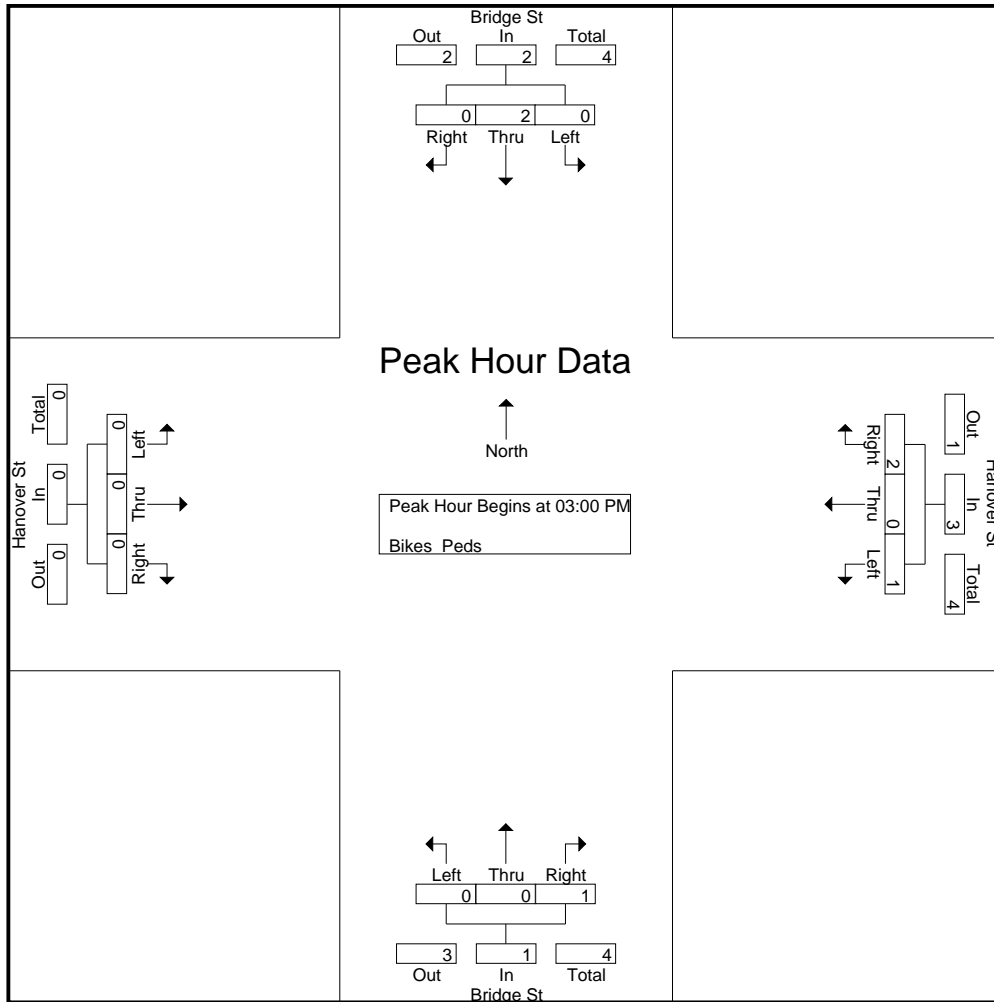
Start Time	Bridge St From North				Hanover St From East				Bridge St From South				Hanover St From West				Int. Total
	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	
Peak Hour Analysis From 03:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 03:00 PM																	
03:00 PM	0	2	0	2	1	0	2	3	0	0	0	0	0	0	0	0	5
03:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:45 PM	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1
Total Volume	0	2	0	2	1	0	2	3	0	0	1	1	0	0	0	0	6
% App. Total	0	100	0		33.3	0	66.7		0	0	100		0	0	0		
PHF	.000	.250	.000	.250	.250	.000	.250	.250	.000	.000	.250	.250	.000	.000	.000	.000	.300

Accurate Counts

978-664-2565

N/S Street : Bridge Street
 E/W Street : Hanover Street
 City/State : Portsmouth, NH
 Weather : Rain / Cloudy

File Name : 10068003
 Site Code : 10068003
 Start Date : 8/6/2024
 Page No : 11



Peak Hour Analysis From 03:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	03:00 PM				03:00 PM				03:30 PM				04:00 PM			
+0 mins.	0	2	0	2	1	0	2	3	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	1
+30 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0	0	3	3	1	0	0	1
Total Volume	0	2	0	2	1	0	2	3	0	0	4	4	1	0	1	2
% App. Total	0	100	0		33.3	0	66.7		0	0	100		50	0	50	
PHF	.000	.250	.000	.250	.250	.000	.250	.250	.000	.000	.333	.333	.250	.000	.250	.500

Accurate Counts

978-664-2565

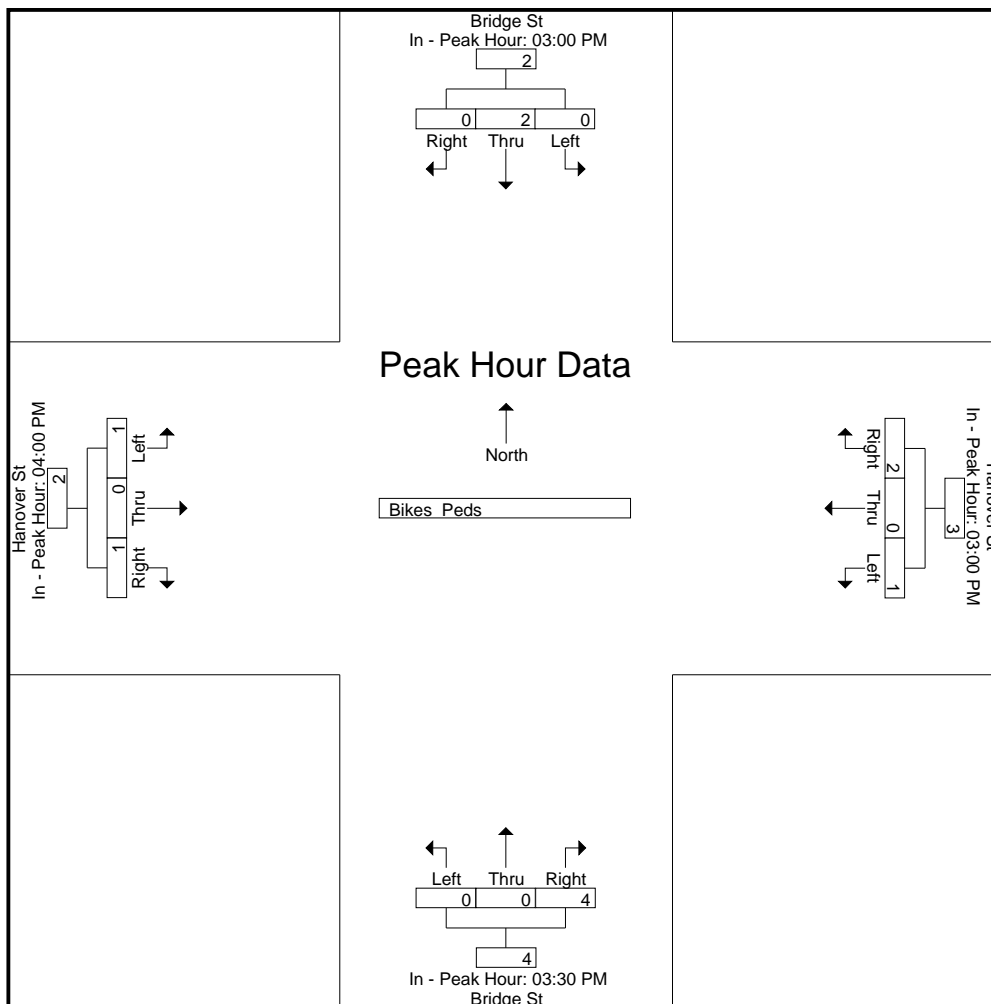
File Name : 10068003

Site Code : 10068003

Start Date : 8/6/2024

Page No : 12

N/S Street : Bridge Street
E/W Street : Hanover Street
City/State : Portsmouth, NH
Weather : Rain / Cloudy



Accurate Counts

978-664-2565

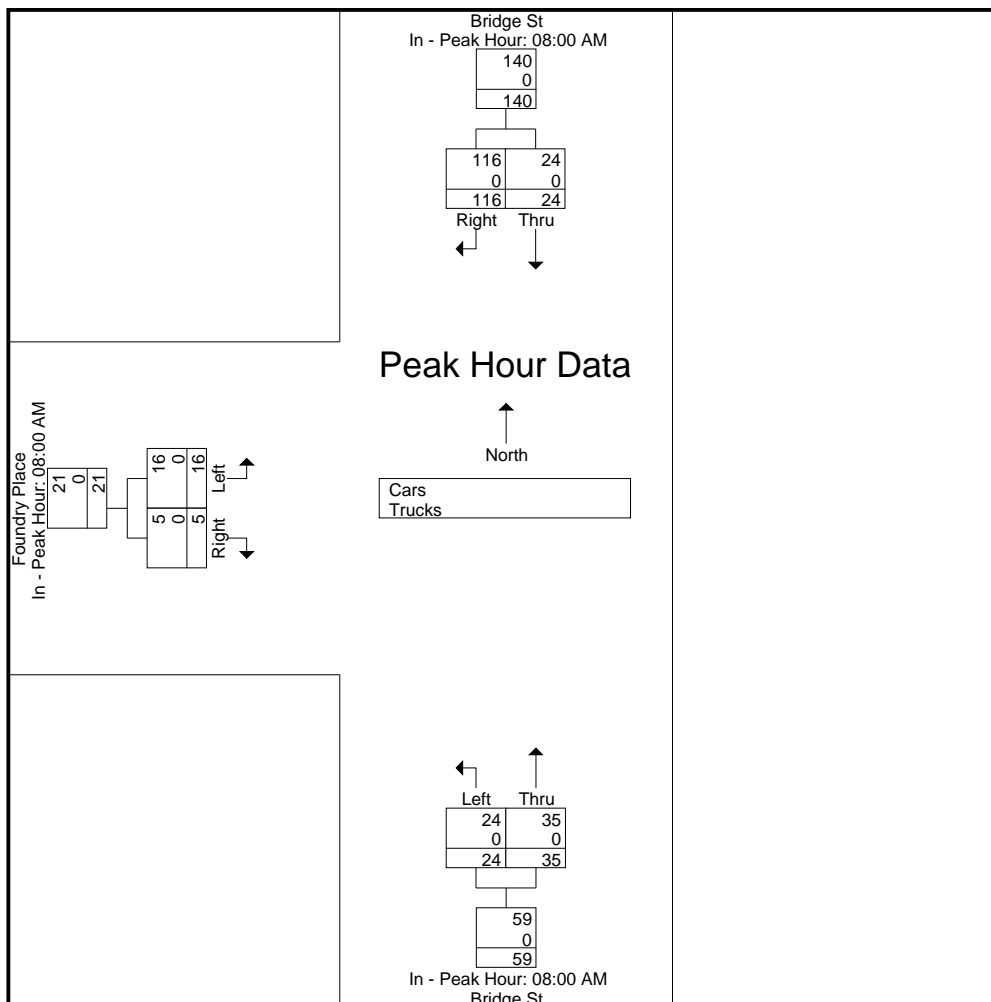
File Name : 10068004

Site Code : 10068004

Start Date : 8/6/2024

Page No : 3

N/S Street : Bridge Street
 E/W Street : Foundry Place
 City/State : Portsmouth, NH
 Weather : Rain / Cloudy



Accurate Counts

978-664-2565

N/S Street : Bridge Street
 E/W Street : Foundry Place
 City/State : Portsmouth, NH
 Weather : Rain / Cloudy

File Name : 10068004
 Site Code : 10068004
 Start Date : 8/6/2024
 Page No : 4

Groups Printed- Cars

Start Time	Bridge St From North		Bridge St From South		Foundry Place From West		Int. Total
	Thru	Right	Left	Thru	Left	Right	
07:00 AM	3	8	2	7	0	0	20
07:15 AM	6	8	3	5	1	1	24
07:30 AM	6	10	0	5	1	3	25
07:45 AM	3	16	7	5	1	0	32
Total	18	42	12	22	3	4	101
08:00 AM	5	22	5	5	2	0	39
08:15 AM	6	33	8	7	7	2	63
08:30 AM	7	36	8	9	1	2	63
08:45 AM	6	25	3	14	6	1	55
Total	24	116	24	35	16	5	220
Grand Total	42	158	36	57	19	9	321
Apprch %	21	79	38.7	61.3	67.9	32.1	
Total %	13.1	49.2	11.2	17.8	5.9	2.8	

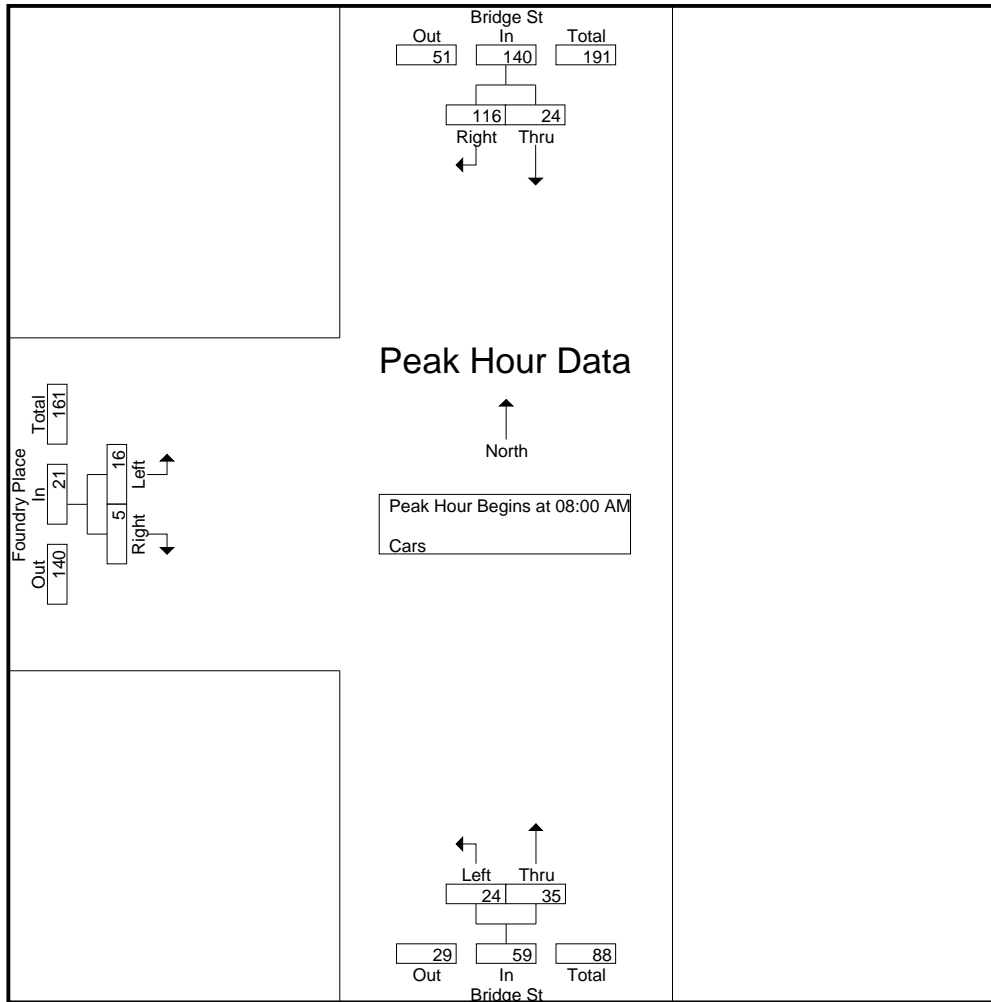
Start Time	Bridge St From North			Bridge St From South			Foundry Place From West			Int. Total
	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 08:00 AM										
08:00 AM	5	22	27	5	5	10	2	0	2	39
08:15 AM	6	33	39	8	7	15	7	2	9	63
08:30 AM	7	36	43	8	9	17	1	2	3	63
08:45 AM	6	25	31	3	14	17	6	1	7	55
Total Volume	24	116	140	24	35	59	16	5	21	220
% App. Total	17.1	82.9		40.7	59.3		76.2	23.8		
PHF	.857	.806	.814	.750	.625	.868	.571	.625	.583	.873

Accurate Counts

978-664-2565

N/S Street : Bridge Street
 E/W Street : Foundry Place
 City/State : Portsmouth, NH
 Weather : Rain / Cloudy

File Name : 10068004
 Site Code : 10068004
 Start Date : 8/6/2024
 Page No : 5



Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	08:00 AM			08:00 AM			08:00 AM		
+0 mins.	5	22	27	5	5	10	2	0	2
+15 mins.	6	33	39	8	7	15	7	2	9
+30 mins.	7	36	43	8	9	17	1	2	3
+45 mins.	6	25	31	3	14	17	6	1	7
Total Volume	24	116	140	24	35	59	16	5	21
% App. Total	17.1	82.9		40.7	59.3		76.2	23.8	
PHF	.857	.806	.814	.750	.625	.868	.571	.625	.583

Accurate Counts

978-664-2565

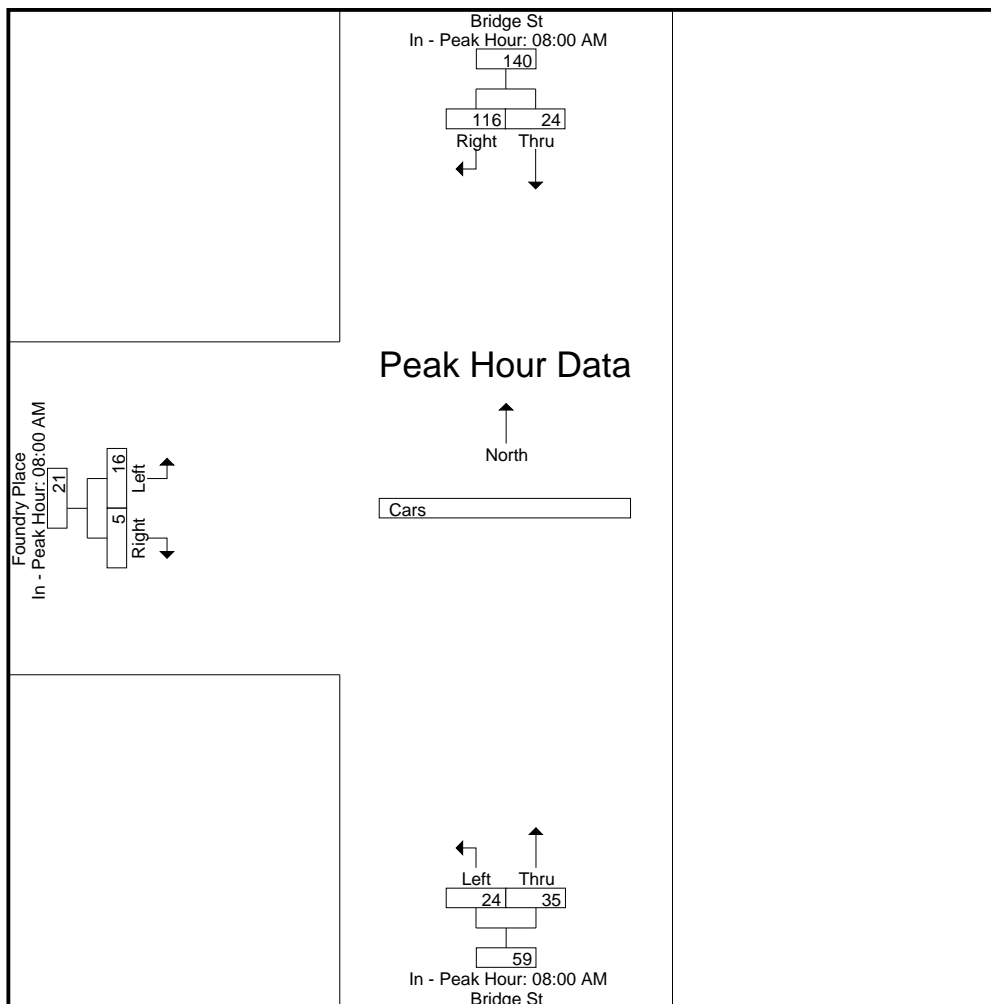
File Name : 10068004

Site Code : 10068004

Start Date : 8/6/2024

Page No : 6

N/S Street : Bridge Street
E/W Street : Foundry Place
City/State : Portsmouth, NH
Weather : Rain / Cloudy



Accurate Counts

978-664-2565

N/S Street : Bridge Street
 E/W Street : Foundry Place
 City/State : Portsmouth, NH
 Weather : Rain / Cloudy

File Name : 10068004
 Site Code : 10068004
 Start Date : 8/6/2024
 Page No : 7

Groups Printed- Trucks

Start Time	Bridge St From North		Bridge St From South		Foundry Place From West		Int. Total
	Thru	Right	Left	Thru	Left	Right	
07:00 AM	0	0	0	0	0	0	0
07:15 AM	0	0	0	0	0	0	0
07:30 AM	0	0	0	0	0	0	0
07:45 AM	0	0	0	1	0	0	1
Total	0	0	0	1	0	0	1
08:00 AM	0	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	0	0	0
08:45 AM	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0
Grand Total	0	0	0	1	0	0	1
Apprch %	0	0	0	100	0	0	
Total %	0	0	0	100	0	0	

Start Time	Bridge St From North			Bridge St From South			Foundry Place From West			Int. Total
	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:00 AM										
07:00 AM	0	0	0	0	0	0	0	0	0	0
07:15 AM	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	1	1	0	0	0	1
Total Volume	0	0	0	0	1	1	0	0	0	1
% App. Total	0	0		0	100		0	0		
PHF	.000	.000	.000	.000	.250	.250	.000	.000	.000	.250

Accurate Counts

978-664-2565

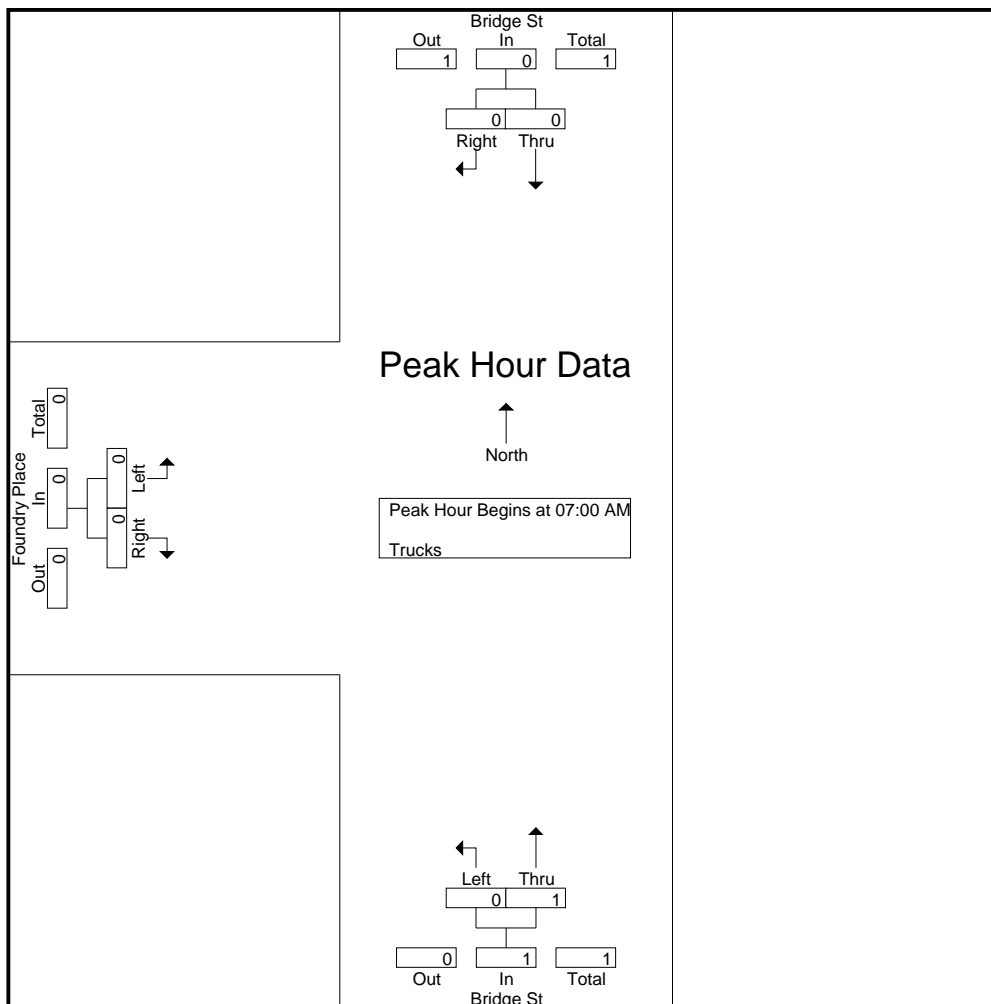
File Name : 10068004

Site Code : 10068004

Start Date : 8/6/2024

Page No : 8

N/S Street : Bridge Street
 E/W Street : Foundry Place
 City/State : Portsmouth, NH
 Weather : Rain / Cloudy



Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	07:00 AM			07:00 AM			07:00 AM		
+0 mins.	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	1	1	0	0	0
Total Volume	0	0	0	0	1	1	0	0	0
% App. Total	0	0	0	0	100	100	0	0	0
PHF	.000	.000	.000	.000	.250	.250	.000	.000	.000

Accurate Counts

978-664-2565

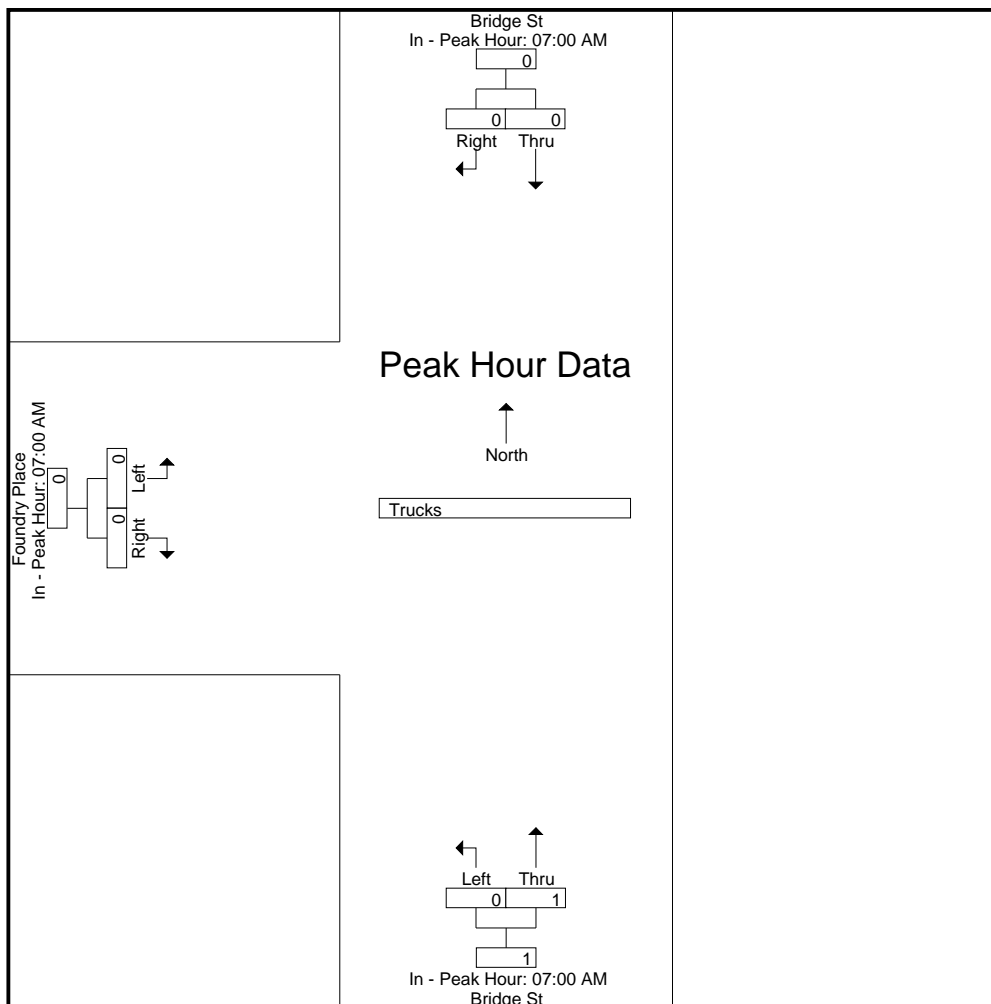
File Name : 10068004

Site Code : 10068004

Start Date : 8/6/2024

Page No : 9

N/S Street : Bridge Street
E/W Street : Foundry Place
City/State : Portsmouth, NH
Weather : Rain / Cloudy

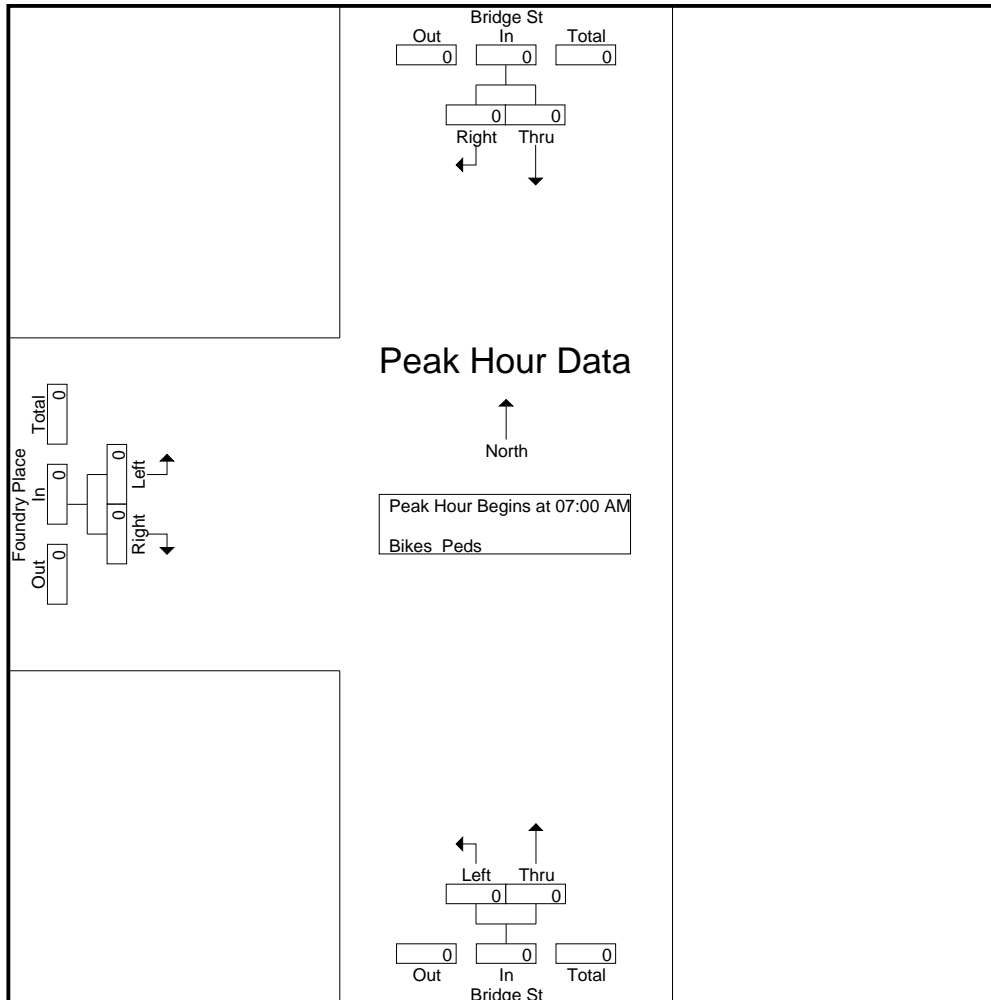


Accurate Counts

978-664-2565

N/S Street : Bridge Street
 E/W Street : Foundry Place
 City/State : Portsmouth, NH
 Weather : Rain / Cloudy

File Name : 10068004
 Site Code : 10068004
 Start Date : 8/6/2024
 Page No : 11



Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	07:00 AM			07:00 AM			07:00 AM		
+0 mins.	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0
% App. Total	0	0	0	0	0	0	0	0	0
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000

Accurate Counts

978-664-2565

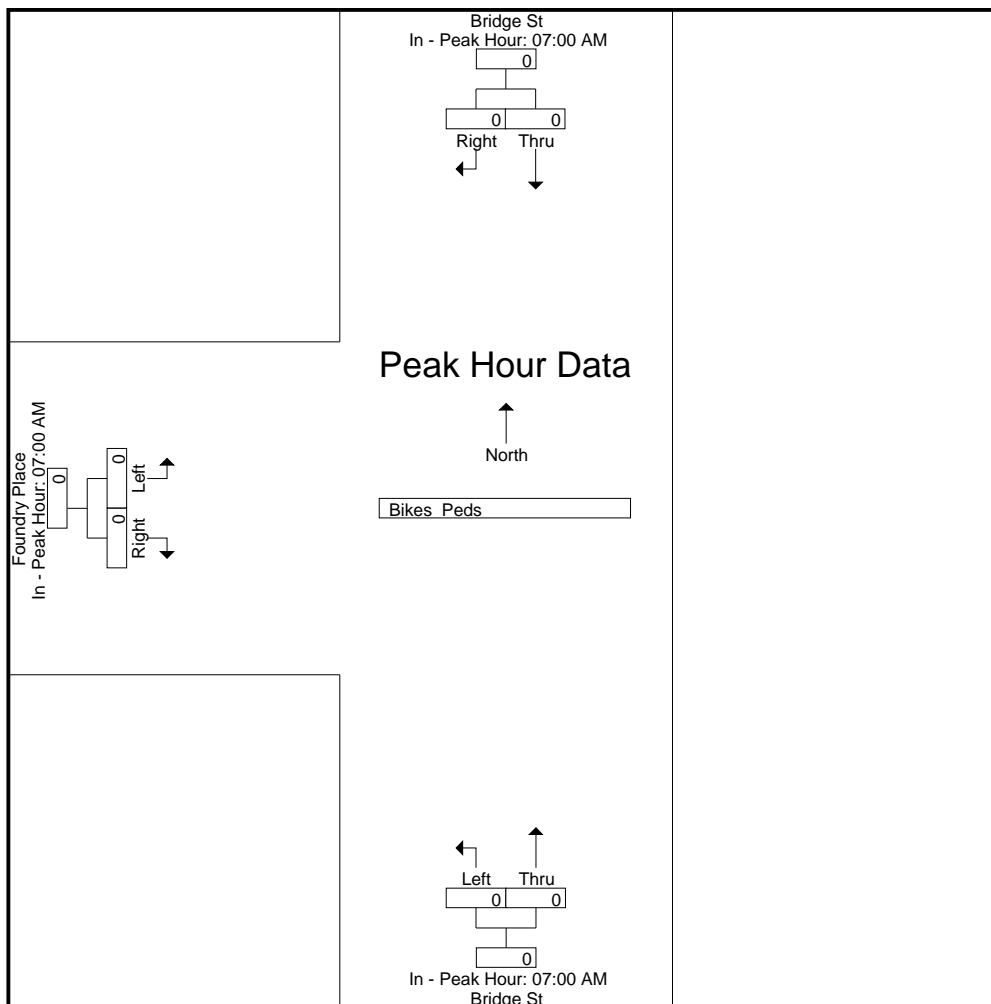
File Name : 10068004

Site Code : 10068004

Start Date : 8/6/2024

Page No : 12

N/S Street : Bridge Street
E/W Street : Foundry Place
City/State : Portsmouth, NH
Weather : Rain / Cloudy



Accurate Counts

978-664-2565

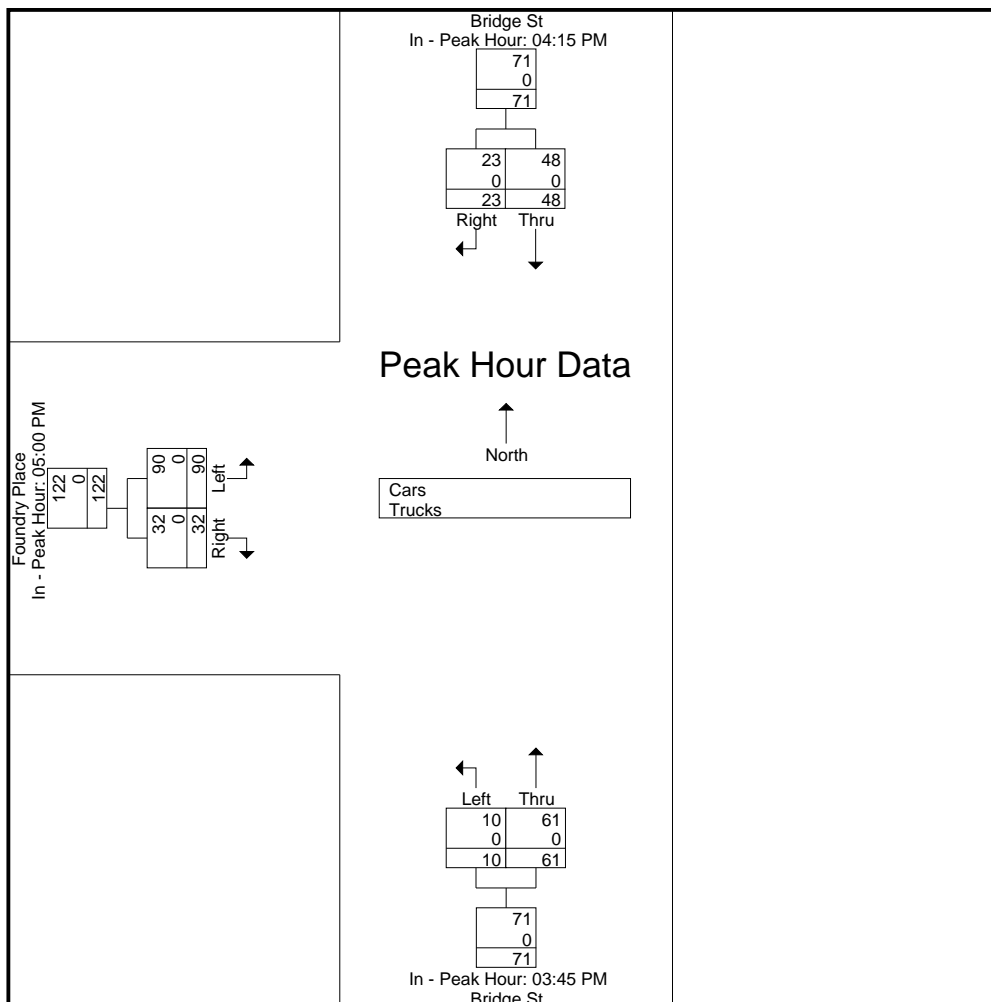
File Name : 10068004

Site Code : 10068004

Start Date : 8/6/2024

Page No : 3

N/S Street : Bridge Street
 E/W Street : Foundry Place
 City/State : Portsmouth, NH
 Weather : Rain / Cloudy



Accurate Counts

978-664-2565

N/S Street : Bridge Street
 E/W Street : Foundry Place
 City/State : Portsmouth, NH
 Weather : Rain / Cloudy

File Name : 10068004
 Site Code : 10068004
 Start Date : 8/6/2024
 Page No : 4

Groups Printed- Cars

Start Time	Bridge St From North		Bridge St From South		Foundry Place From West		Int. Total
	Thru	Right	Left	Thru	Left	Right	
03:00 PM	9	4	4	10	11	4	42
03:15 PM	16	1	4	12	12	2	47
03:30 PM	9	6	5	10	19	0	49
03:45 PM	9	6	2	16	9	5	47
Total	43	17	15	48	51	11	185
04:00 PM	10	6	2	15	10	6	49
04:15 PM	11	7	4	14	18	3	57
04:30 PM	9	5	2	16	18	6	56
04:45 PM	14	6	3	9	13	7	52
Total	44	24	11	54	59	22	214
05:00 PM	14	5	3	12	29	13	76
05:15 PM	7	1	2	15	19	10	54
05:30 PM	13	2	2	9	21	6	53
05:45 PM	12	2	2	8	21	3	48
Total	46	10	9	44	90	32	231
Grand Total	133	51	35	146	200	65	630
Apprch %	72.3	27.7	19.3	80.7	75.5	24.5	
Total %	21.1	8.1	5.6	23.2	31.7	10.3	

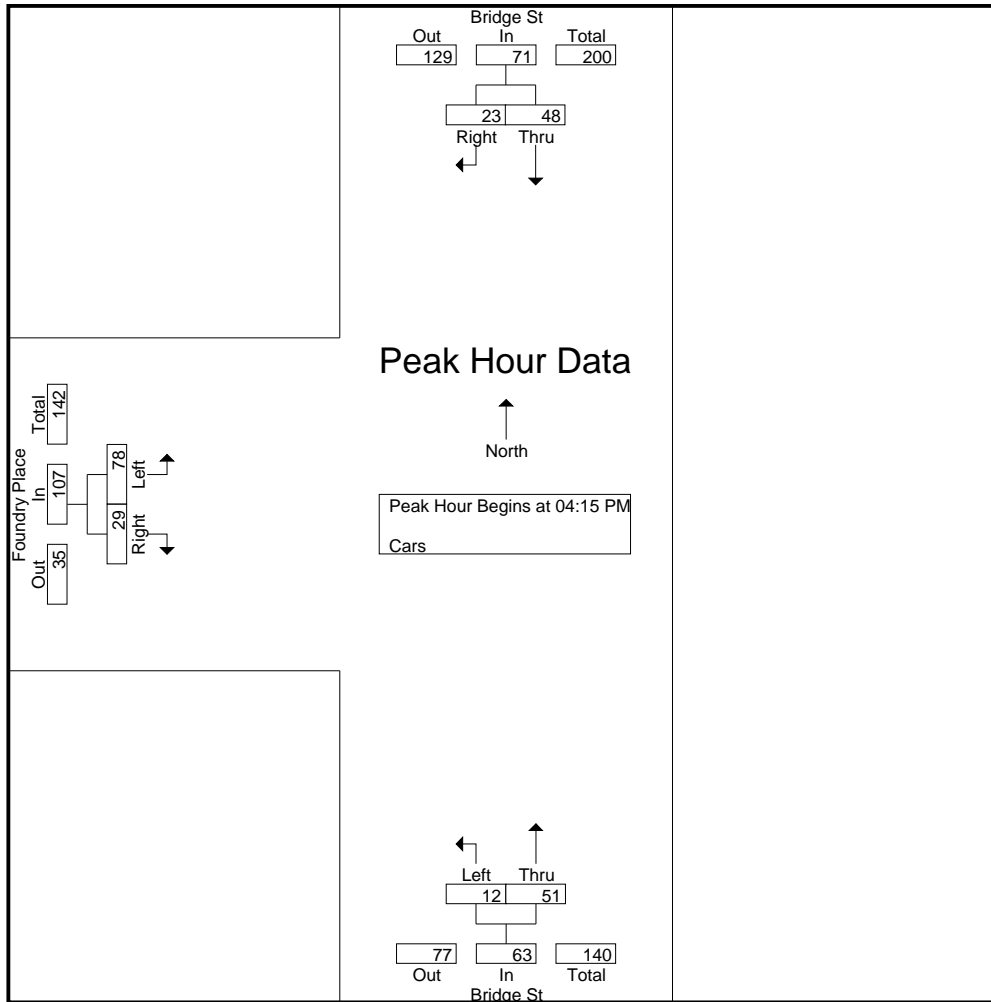
Start Time	Bridge St From North			Bridge St From South			Foundry Place From West			Int. Total
	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	
Peak Hour Analysis From 03:00 PM to 05:45 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 04:15 PM										
04:15 PM	11	7	18	4	14	18	18	3	21	57
04:30 PM	9	5	14	2	16	18	18	6	24	56
04:45 PM	14	6	20	3	9	12	13	7	20	52
05:00 PM	14	5	19	3	12	15	29	13	42	76
Total Volume	48	23	71	12	51	63	78	29	107	241
% App. Total	67.6	32.4		19	81		72.9	27.1		
PHF	.857	.821	.888	.750	.797	.875	.672	.558	.637	.793

Accurate Counts

978-664-2565

N/S Street : Bridge Street
 E/W Street : Foundry Place
 City/State : Portsmouth, NH
 Weather : Rain / Cloudy

File Name : 10068004
 Site Code : 10068004
 Start Date : 8/6/2024
 Page No : 5



Peak Hour Analysis From 03:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	04:15 PM			03:45 PM			05:00 PM		
+0 mins.	11	7	18	2	16	18	29	13	42
+15 mins.	9	5	14	2	15	17	19	10	29
+30 mins.	14	6	20	4	14	18	21	6	27
+45 mins.	14	5	19	2	16	18	21	3	24
Total Volume	48	23	71	10	61	71	90	32	122
% App. Total	67.6	32.4		14.1	85.9		73.8	26.2	
PHF	.857	.821	.888	.625	.953	.986	.776	.615	.726

Accurate Counts

978-664-2565

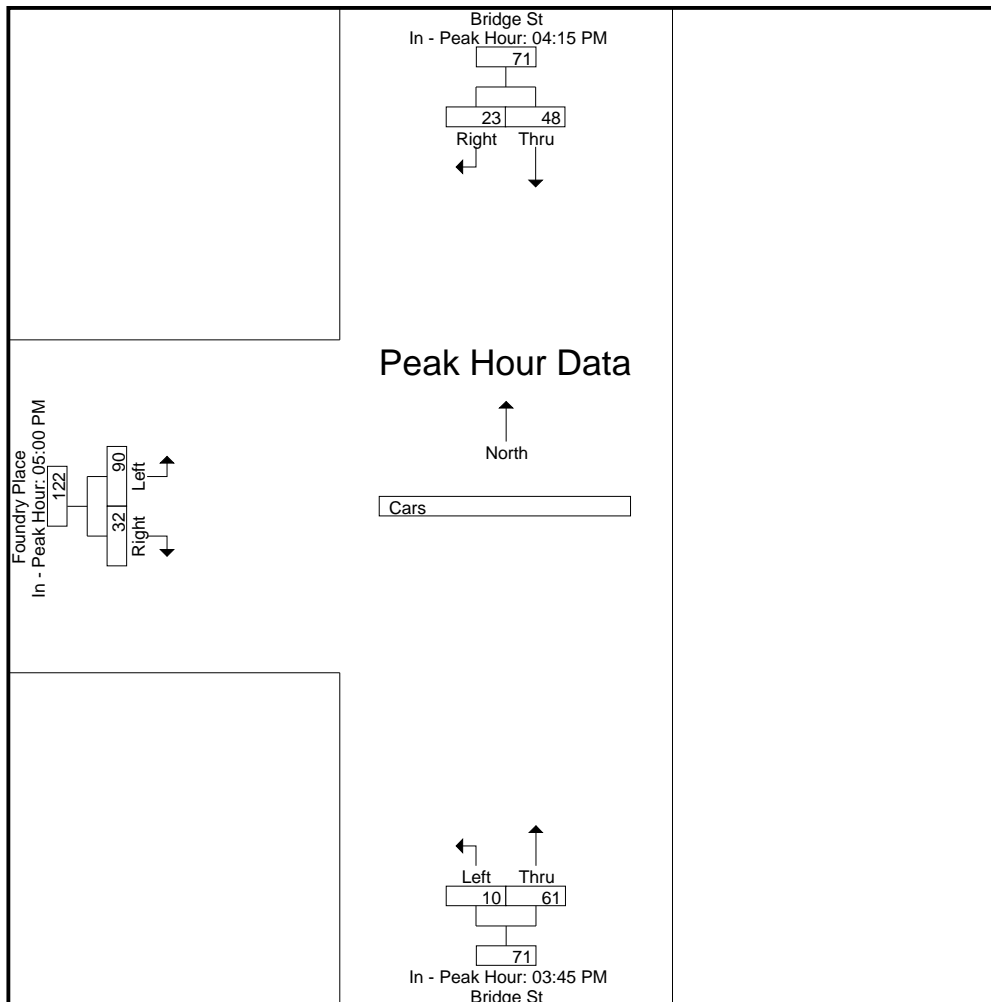
File Name : 10068004

Site Code : 10068004

Start Date : 8/6/2024

Page No : 6

N/S Street : Bridge Street
E/W Street : Foundry Place
City/State : Portsmouth, NH
Weather : Rain / Cloudy



Accurate Counts

978-664-2565

N/S Street : Bridge Street
 E/W Street : Foundry Place
 City/State : Portsmouth, NH
 Weather : Rain / Cloudy

File Name : 10068004
 Site Code : 10068004
 Start Date : 8/6/2024
 Page No : 7

Groups Printed- Trucks

Start Time	Bridge St From North		Bridge St From South		Foundry Place From West		Int. Total
	Thru	Right	Left	Thru	Left	Right	
03:00 PM	0	0	0	0	0	0	0
03:15 PM	0	0	0	0	0	0	0
03:30 PM	0	0	0	1	0	0	1
03:45 PM	0	0	0	0	0	0	0
Total	0	0	0	1	0	0	1
04:00 PM	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0
05:00 PM	0	0	0	0	0	0	0
05:15 PM	1	0	0	0	0	0	1
05:30 PM	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0
Total	1	0	0	0	0	0	1
Grand Total	1	0	0	1	0	0	2
Apprch %	100	0	0	100	0	0	
Total %	50	0	0	50	0	0	

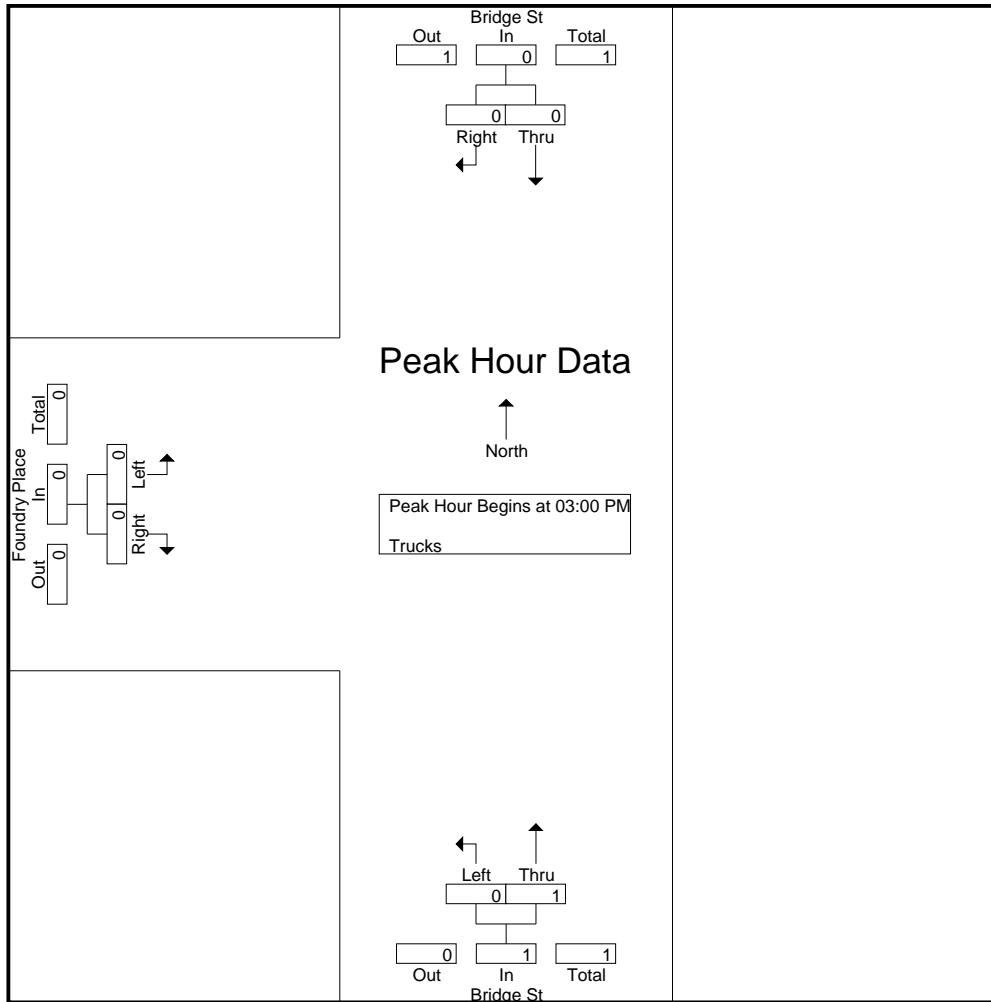
Start Time	Bridge St From North			Bridge St From South			Foundry Place From West			Int. Total
	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	
Peak Hour Analysis From 03:00 PM to 05:45 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 03:00 PM										
03:00 PM	0	0	0	0	0	0	0	0	0	0
03:15 PM	0	0	0	0	0	0	0	0	0	0
03:30 PM	0	0	0	0	1	1	0	0	0	1
03:45 PM	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	1	1	0	0	0	1
% App. Total	0	0		0	100		0	0		
PHF	.000	.000	.000	.000	.250	.250	.000	.000	.000	.250

Accurate Counts

978-664-2565

N/S Street : Bridge Street
 E/W Street : Foundry Place
 City/State : Portsmouth, NH
 Weather : Rain / Cloudy

File Name : 10068004
 Site Code : 10068004
 Start Date : 8/6/2024
 Page No : 8



Peak Hour Analysis From 03:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	04:30 PM			03:00 PM			03:00 PM		
+0 mins.	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	1	1	0	0	0
+45 mins.	1	0	1	0	0	0	0	0	0
Total Volume	1	0	1	0	1	1	0	0	0
% App. Total	100	0		0	100		0	0	
PHF	.250	.000	.250	.000	.250	.250	.000	.000	.000

Accurate Counts

978-664-2565

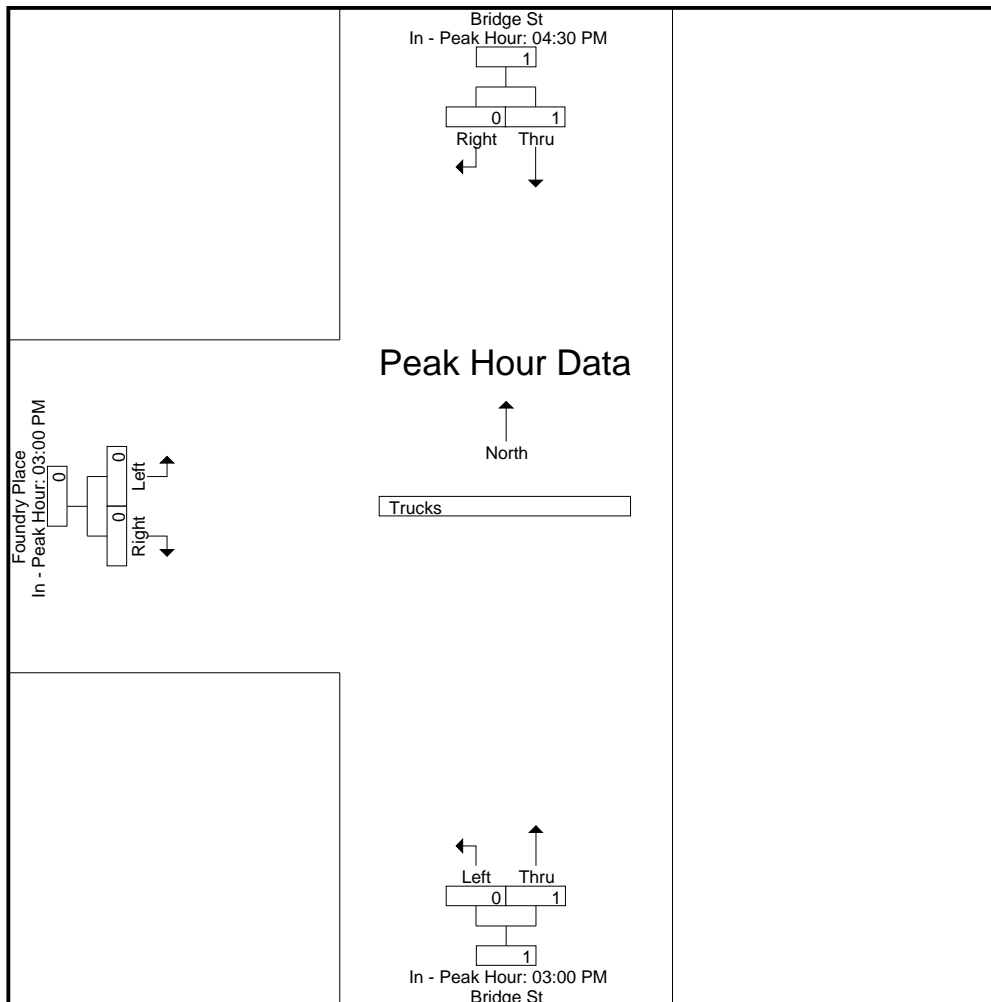
File Name : 10068004

Site Code : 10068004

Start Date : 8/6/2024

Page No : 9

N/S Street : Bridge Street
E/W Street : Foundry Place
City/State : Portsmouth, NH
Weather : Rain / Cloudy



Accurate Counts

978-664-2565

N/S Street : Bridge Street
 E/W Street : Foundry Place
 City/State : Portsmouth, NH
 Weather : Rain / Cloudy

File Name : 10068004
 Site Code : 10068004
 Start Date : 8/6/2024
 Page No : 10

Groups Printed- Bikes Peds

Start Time	Bridge St From North			Bridge St From South			Foundry Place From West			Exclu. Total	Inclu. Total	Int. Total
	Thru	Right	Peds	Left	Thru	Peds	Left	Right	Peds			
03:00 PM	0	0	9	2	0	2	0	2	4	15	4	19
03:15 PM	0	0	7	0	0	3	0	0	6	16	0	16
03:30 PM	0	0	3	0	0	4	0	0	2	9	0	9
03:45 PM	0	0	3	0	0	2	0	0	9	14	0	14
Total	0	0	22	2	0	11	0	2	21	54	4	58
04:00 PM	0	0	5	0	0	5	0	0	6	16	0	16
04:15 PM	0	0	2	0	0	4	0	0	5	11	0	11
04:30 PM	0	0	3	0	0	2	0	0	7	12	0	12
04:45 PM	0	0	3	0	1	2	0	0	8	13	1	14
Total	0	0	13	0	1	13	0	0	26	52	1	53
05:00 PM	0	0	4	0	0	1	0	0	13	18	0	18
05:15 PM	0	0	5	0	0	6	0	0	15	26	0	26
05:30 PM	0	0	4	0	0	3	0	0	11	18	0	18
05:45 PM	0	0	5	0	0	2	0	0	7	14	0	14
Total	0	0	18	0	0	12	0	0	46	76	0	76
Grand Total	0	0	53	2	1	36	0	2	93	182	5	187
Apprch %	0	0		66.7	33.3		0	100				
Total %	0	0		40	20		0	40		97.3	2.7	

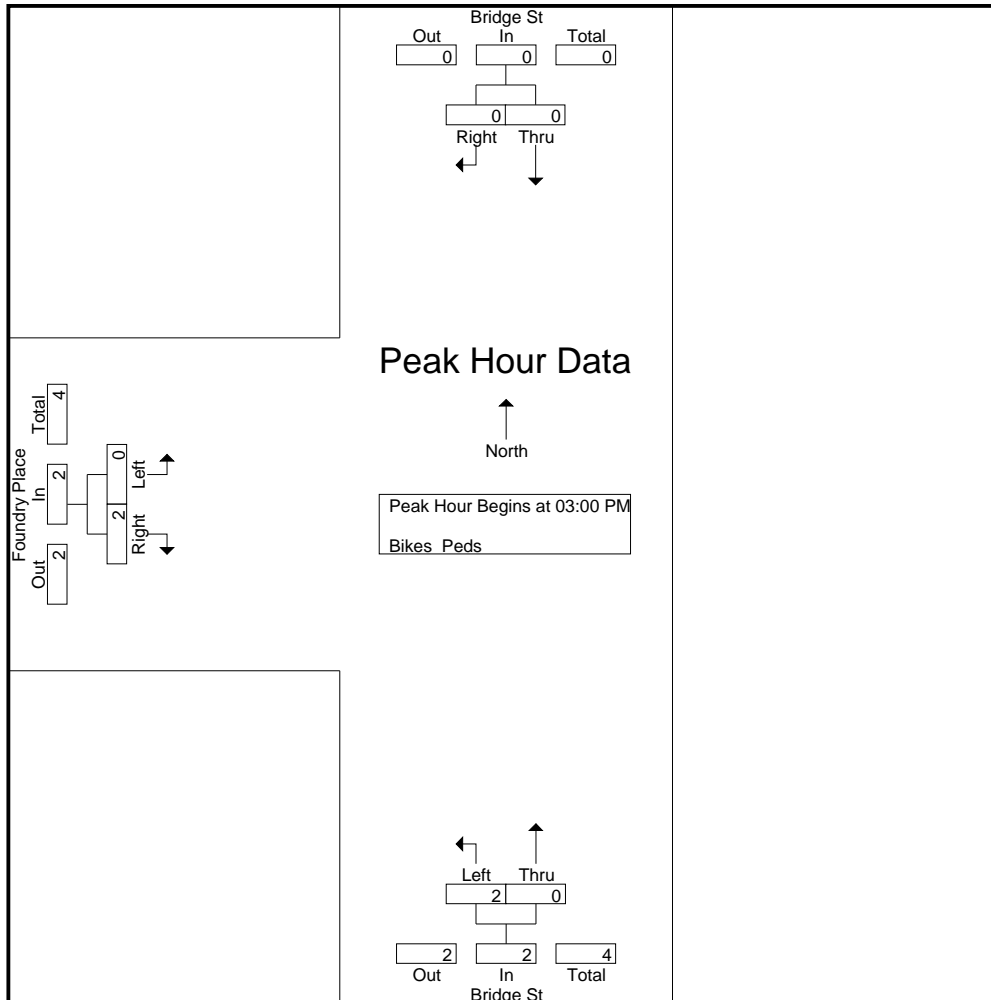
Start Time	Bridge St From North			Bridge St From South			Foundry Place From West			Int. Total
	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	
Peak Hour Analysis From 03:00 PM to 05:45 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 03:00 PM										
03:00 PM	0	0	0	2	0	2	0	2	2	4
03:15 PM	0	0	0	0	0	0	0	0	0	0
03:30 PM	0	0	0	0	0	0	0	0	0	0
03:45 PM	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	2	0	2	0	2	2	4
% App. Total	0	0	0	100	0	0	0	100	0	0
PHF	.000	.000	.000	.250	.000	.250	.000	.250	.250	.250

Accurate Counts

978-664-2565

N/S Street : Bridge Street
 E/W Street : Foundry Place
 City/State : Portsmouth, NH
 Weather : Rain / Cloudy

File Name : 10068004
 Site Code : 10068004
 Start Date : 8/6/2024
 Page No : 11



Peak Hour Analysis From 03:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	03:00 PM			03:00 PM			03:00 PM		
+0 mins.	0	0	0	2	0	2	0	2	2
+15 mins.	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	2	0	2	0	2	2
% App. Total	0	0	0	100	0	100	0	100	100
PHF	.000	.000	.000	.250	.000	.250	.000	.250	.250

Accurate Counts

978-664-2565

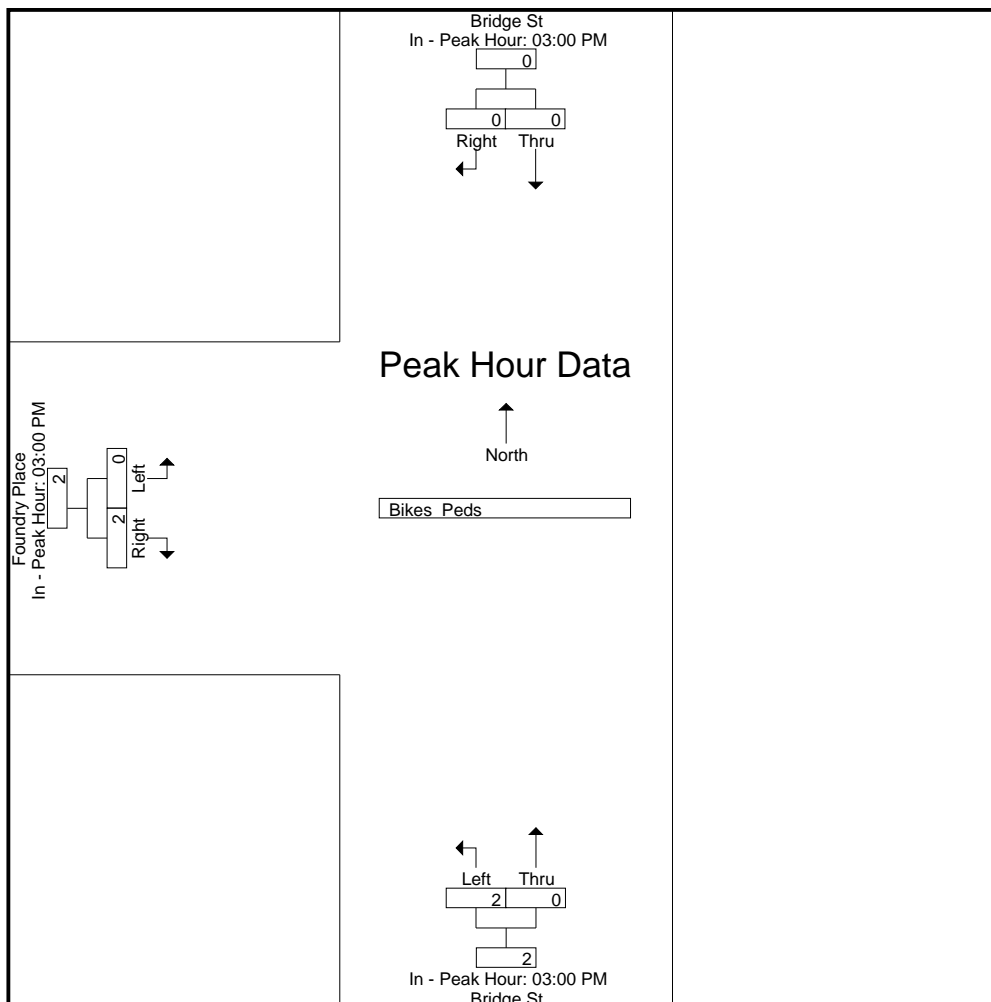
File Name : 10068004

Site Code : 10068004

Start Date : 8/6/2024

Page No : 12

N/S Street : Bridge Street
E/W Street : Foundry Place
City/State : Portsmouth, NH
Weather : Rain / Cloudy



SEASONAL ADJUSTMENT DATA

Year 2019 Monthly Data

Town: Straford
Station: 2125001
Location: Dover Point Rd
Group: 4

<u>Month</u>	<u>ADT</u>	<u>Adjustment to Average</u>	<u>Adjustment to Peak</u>
January	10,029	1.11	1.18
February	10,191	1.09	1.16
March	10,505	1.06	1.13
<i>April</i>	<i>10,988</i>	<i>1.01</i>	<i>1.08</i>
May	11,844	0.94	1.00
June	11,849	0.94	1.00
July	11,364	0.98	1.04
August	11,709	0.95	1.01
September	11,765	0.94	1.01
October	11,611	0.96	1.02
November	10,873	1.02	1.09
December	10,493	1.06	1.13

AADT: 11,102
Peak Month: 11,849

COVID-19 ADJUSTMENT DATA

August 2019 Average Count Data – Sta. 02125001

ADT: 11,709

Weekday Morning Peak-Hour Traffic: 753

Weekday Evening Peak-Hour Traffic: 1,049

August 2024 Average Count Data – Sta. 02125001

ADT: 11,674

Weekday Morning Peak-Hour Traffic: 731

Weekday Evening Peak-Hour Traffic: 1,075

COVID Adjustment

$$\text{ADT: } 1 - \frac{11,709}{11,674} = -0.003$$

$$\text{Weekday Morning Adjustment: } 1 - \frac{753}{731} = -0.030$$

$$\text{Weekday Evening Adjustment: } 1 - \frac{1,049}{1,075} = +0.024$$

New Hampshire DOT

02125001: Monthly Hourly Volume for August 2019

Location ID: 02125001
County: STRAFFORD
Functional Class: 4
Location: Dover Point Rd
Seasonal Factor Group: 04
Daily Factor Group:
Axle Factor Group: E
Growth Factor Group:

	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	TOTAL	QC Status	Day	
1	92	35	30	34	83	230	506	775	738	650	662	789	809	807	879	947	1,052	1,014	695	585	513	368	231	151	12,675	Accepted	Thursday	
2	104	36	35	41	78	214	491	701	743	671	722	818	823	881	967	981	980	945	683	569	473	407	254	190	12,807	Accepted	Friday	
3	115	51	41	33	37	78	213	356	539	659	682	744	796	789	782	814	732	708	599	519	436	353	231	174	10,481	Accepted	Saturday	
4	100	46	34	11	23	49	158	250	312	502	626	713	671	704	733	684	675	583	536	472	368	251	175	106	8,782	Accepted	Sunday	
5	40	22	14	30	72	237	494	734	748	636	631	732	756	750	928	938	1,010	1,034	700	517	412	271	184	111	12,001	Accepted	Monday	
6	98	31	30	39	79	265	496	793	787	698	635	710	737	754	861	972	1,095	1,060	717	581	448	300	189	109	12,484	Accepted	Tuesday	
7	86	35	21	34	71	246	492	739	754	663	687	753	772	806	931	984	1,003	1,045	663	492	410	278	188	119	12,272	Accepted	Wednesday	
8	103	27	22	35	80	254	478	725	753	722	651	808	817	835	910	1,016	1,034	1,069	768	602	493	347	221	155	12,925	Accepted	Thursday	
9	86	28	39	36	62	218	441	707	758	696	675	848	905	880	947	1,064	940	949	751	549	464	361	256	196	12,856	Accepted	Friday	
10	137	67	44	25	38	95	200	345	514	601	733	766	807	842	814	750	778	803	566	491	397	333	229	141	10,516	Accepted	Saturday	
11	118	52	26	20	18	57	140	185	325	423	610	635	784	676	688	718	667	608	479	437	342	231	181	98	8,518	Accepted	Sunday	
12	50	25	12	28	74	226	432	724	668	586	698	721	728	721	863	877	992	1,045	685	540	382	266	196	115	11,654	Accepted	Monday	
13	91	24	36	36	88	247	472	753	685	655	743	806	764	801	829	918	1,011	1,071	725	537	412	284	149	116	12,253	Accepted	Tuesday	
14	88	31	22	37	76	230	489	743	755	621	628	737	810	777	877	888	1,057	1,128	769	586	480	339	180	127	12,475	Accepted	Wednesday	
15	96	34	25	31	88	235	481	756	709	685	659	778	768	742	824	987	996	1,101	728	646	498	351	236	174	12,628	Accepted	Thursday	
16	100	32	22	17	67	210	416	690	680	632	680	763	769	849	961	1,093	991	944	669	605	431	389	233	181	12,424	Accepted	Friday	
17	119	59	31	31	24	69	202	363	458	576	707	803	818	775	798	800	740	760	593	470	365	339	243	176	10,319	Accepted	Saturday	
18	84	67	35	33	22	62	133	195	321	425	621	665	771	764	777	730	675	594	570	508	331	221	163	101	8,868	Accepted	Sunday	
19	49	21	23	30	71	205	444	765	681	713	652	707	774	751	830	986	973	1,049	683	494	428	312	157	139	11,937	Accepted	Monday	
20	87	36	30	29	81	248	482	776	734	700	701	722	756	803	811	935	1,064	1,097	712	651	471	314	210	124	12,574	Accepted	Tuesday	
21	89	47	24	23	71	249	456	756	700	710	693	785	829	762	861	1,008	1,018	1,000	669	548	413	272	175	131	12,289	Accepted	Wednesday	
22	103	31	23	31	77	236	488	777	767	697	798	777	845	823	841	1,015	1,064	1,117	752	676	480	329	220	140	13,107	Accepted	Thursday	
23	110	46	26	34	65	204	466	766	712	663	697	738	815	915	980	1,073	1,126	1,041	779	560	429	348	277	195	13,065	Accepted	Friday	
24	129	61	34	19	46	96	210	397	465	649	752	845	1,006	811	881	812	744	704	610	501	412	305	204	156	10,849	Accepted	Saturday	
25	100	62	44	18	24	56	149	221	320	432	609	720	713	696	691	665	722	615	518	429	319	189	133	97	8,542	Accepted	Sunday	
26	37	22	17	25	64	243	503	732	707	600	621	742	825	757	895	1,025	1,101	1,140	721	512	393	248	151	110	12,191	Accepted	Monday	
27	76	40	21	32	72	243	536	816	758	661	666	783	761	814	873	1,047	1,106	1,145	753	640	408	267	184	112	12,814	Accepted	Tuesday	
28	80	41	25	31	79	228	504	833	744	649	645	738	812	791	855	1,054	1,097	1,077	757	497	349	253	162	113	12,414	Accepted	Wednesday	
29	90	27	25	25	85	221	518	793	767	719	719	716	789	823	929	1,095	1,078	1,072	772	615	468	340	207	137	13,030	Accepted	Thursday	
30	105	41	30	27	64	178	401	721	709	694	751	806	906	879	974	1,070	968	935	726	612	432	330	249	173	12,781	Accepted	Friday	
31	141	58	29	20	30	81	186	320	510	680	805	834	799	773	803	756	748	744	562	522	412	292	210	147	10,462	Accepted	Saturday	
								753	730							999	1,034	1,049								11,709		

AM Peak-Hour = 753

PM Peak-Hour = 1,049

ADT August = 11,709

New Hampshire DOT 02125001: Monthly Hourly Volume for August 2024

Location ID: 02125001
 County: STRAFFORD
 Functional Class: 4
 Location: Dover Point Rd

Seasonal Factor Group:
 Daily Factor Group:
 Axle Factor Group:
 Growth Factor Group:

	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	TOTAL	QC Status	Day	
1	102	50	27	37	128	260	468	730	837	763	880	911	913	854	925	1,041	1,180	1,096	754	584	454	300	208	110	13,612	Accepted	Thursday	
2	100	41	22	51	112	247	446	640	653	715	776	785	901	916	999	969	1,019	972	731	520	396	268	186	156	12,621	Accepted	Friday	
3	119	49	31	37	35	89	199	324	464	604	707	798	801	873	813	805	810	690	594	480	371	266	221	139	10,319	Accepted	Saturday	
4	107	51	21	21	40	70	153	223	326	474	546	678	683	720	635	594	602	520	489	401	315	215	140	76	8,100	Accepted	Sunday	
5	43	14	29	31	108	225	443	720	740	670	728	771	778	841	921	1,005	1,034	967	653	417	339	208	172	113	11,970	Accepted	Monday	
6	98	30	26	51	115	269	438	709	751	678	597	717	808	778	924	988	1,011	1,004	641	531	343	247	158	115	12,027	Accepted	Tuesday	
7	81	45	38	44	111	242	431	707	736	688	737	728	770	836	875	973	1,077	1,147	775	611	455	289	198	142	12,736	Accepted	Wednesday	
8	92	32	31	48	130	255	450	710	702	670	675	757	814	831	900	973	1,097	1,088	742	499	417	271	174	129	12,487	Accepted	Thursday	
9	97	42	28	44	116	214	399	619	726	675	677	760	839	879	1,012	1,015	965	915	672	500	338	274	198	155	12,159	Accepted	Friday	
10	99	45	26	36	38	105	186	288	453	604	796	817	856	833	821	860	758	718	647	509	403	280	214	168	10,560	Accepted	Saturday	
11	92	54	22	33	41	65	134	214	333	491	658	675	715	761	725	713	695	672	522	431	385	201	148	96	8,876	Accepted	Sunday	
12	52	28	17	31	103	249	454	677	705	625	660	729	823	747	914	936	1,045	978	605	471	379	218	158	119	11,723	Accepted	Monday	
13	85	34	21	36	121	272	477	716	754	729	726	773	786	855	967	1,043	1,137	991	681	486	374	236	168	135	12,603	Accepted	Tuesday	
14	93	28	21	39	125	275	471	718	764	708	644	817	842	800	950	1,009	1,198	1,132	706	501	377	418	219	126	12,981	Accepted	Wednesday	
15	89	45	31	40	108	272	454	711	725	681	681	821	860	830	967	994	1,093	1,146	670	515	382	276	192	136	12,719	Accepted	Thursday	
16	81	41	24	51	103	240	404	686	683	691	775	835	878	905	983	1,086	1,046	925	713	537	397	315	189	166	12,754	Accepted	Friday	
17	99	45	28	36	43	99	200	322	430	582	736	872	816	799	820	821	752	686	592	448	356	274	200	151	10,207	Accepted	Saturday	
18																												
19								695	731							1,003	1,075	1,030								11,674		
20																												
21																												
22																												
23																												
24																												
25																												
26																												
27																												
28																												
29																												
30																												
31																												

AM Peak-Hour = 731

PM Peak-Hour = 1,075

ADT August 2024 =

11,674

VEHICLE TRAVEL SPEED DATA

Accurate Counts
978-664-2565

Site Code: 10068001

Location : Hanover Street
Location : East of Rock Street
City/State: Portsmouth, NH
Direction: WB,

8/6/2024	0 - 3	> 3 - 6	> 6 - 9	> 9 - 12	> 12 - 15	> 15 - 18	> 18 - 21	> 21 - 24	> 24 - 27	> 27 - 30	> 30 - 33	> 33 - 36	> 36 - 39	> 39	Total
Time	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	
12:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
5:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:00	0	0	0	1	1	0	0	0	0	0	0	0	0	0	2
7:00	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
8:00	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
9:00	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
10:00	0	0	1	2	0	0	0	0	0	0	0	0	0	0	3
11:00	0	0	1	1	0	0	0	0	0	0	0	0	0	0	2
12:00 PM	0	0	0	2	0	1	0	0	0	0	0	0	0	0	3
1:00	0	0	1	1	0	0	0	0	0	0	0	0	0	0	2
2:00	0	0	2	2	1	0	1	0	0	0	0	0	0	0	6
3:00	0	0	2	1	0	0	0	0	0	0	0	0	0	0	3
4:00	0	0	0	1	2	0	0	0	0	0	0	0	0	0	3
5:00	0	0	1	2	1	0	0	0	0	0	0	0	0	0	4
6:00	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
7:00	0	0	1	1	0	0	0	0	0	0	0	0	0	0	2
8:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:00	0	0	1	0	1	0	0	0	0	0	0	0	0	0	2
10:00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
11:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	12	15	7	2	2	0	0	0	0	0	0	0	38

Percentile	15th	50th	85th	95th
Speed	0	9	13	16
Mean Speed (Average)	10.7			
10 MPH Pace Speed	7-16			
Number in Pace	36			
Percent in Pace	95.0%			
Number > 12 MPH	11			
Percent > 12 MPH	28.9%			

Accurate Counts
978-664-2565

Location : Hanover Street
Location : East of Rock Street
City/State: Portsmouth, NH
Direction: WB,

Site Code: 10068001

8/7/2024	0 - 3	> 3 - 6	> 6 - 9	> 9 - 12	> 12 - 15	> 15 - 18	> 18 - 21	> 21 - 24	> 24 - 27	> 27 - 30	> 30 - 33	> 33 - 36	> 36 - 39	> 39	Total
Time	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	
12:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
5:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:00	0	0	1	1	1	0	0	0	0	0	0	0	0	0	3
7:00	0	0	2	3	0	1	0	0	0	0	0	0	0	0	6
8:00	0	0	1	5	0	0	1	0	0	0	0	0	0	0	7
9:00	0	0	4	3	1	0	0	0	0	0	0	0	0	0	8
10:00	0	0	3	5	0	0	0	0	0	0	0	0	0	0	8
11:00	0	0	1	4	0	1	0	0	0	0	0	0	0	0	6
12:00 PM	0	0	6	1	1	0	0	0	0	0	0	0	0	0	8
1:00	0	0	1	1	0	0	0	0	0	0	0	0	0	0	2
2:00	0	0	4	3	0	1	0	0	0	0	0	0	0	0	8
3:00	0	0	3	3	1	0	1	0	0	0	0	0	0	0	8
4:00	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
5:00	0	0	2	0	1	0	1	0	0	0	0	0	0	0	4
6:00	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
7:00	0	0	0	1	0	1	0	0	0	0	0	0	0	0	2
8:00	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2
9:00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
10:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	30	33	6	4	3	0	0	0	0	0	0	0	76

Percentile	15th	50th	85th	95th
Speed	0	8	13	16
Mean Speed (Average)	10.4			
10 MPH Pace Speed	7-16			
Number in Pace	73			
Percent in Pace	96.0%			
Number > 12 MPH	13			
Percent > 12 MPH	17.1%			

Grand Total	0	0	42	48	13	6	5	0	0	0	0	0	0	0	114
Stats															
Percentile					15th	50th	85th	95th							
Speed					0	9	13	16							
Mean Speed (Average)					10.5										
10 MPH Pace Speed					7-16										
Number in Pace					109										
Percent in Pace					96.0%										
Number > 12 MPH					24										
Percent > 12 MPH					21.1%										

Accurate Counts
978-664-2565

Location : Hanover Street
Location : East of Rock Street
City/State: Portsmouth, NH
Direction: EB,

Site Code: 10068001

8/6/2024	0 - 3	> 3 - 6	> 6 - 9	> 9 - 12	> 12 - 15	> 15 - 18	> 18 - 21	> 21 - 24	> 24 - 27	> 27 - 30	> 30 - 33	> 33 - 36	> 36 - 39	> 39	Total
Time	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	
12:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:00	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
2:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
5:00	0	0	0	2	0	1	0	0	0	0	0	0	0	0	3
6:00	0	0	2	3	3	2	2	0	0	0	0	0	0	0	12
7:00	0	0	2	4	13	6	1	0	0	0	0	0	0	0	26
8:00	0	0	3	11	21	13	2	0	0	0	0	0	0	0	50
9:00	0	0	3	18	15	5	0	0	0	0	0	0	0	0	41
10:00	0	0	6	14	10	5	1	0	0	0	0	0	0	0	36
11:00	0	0	0	14	12	3	0	0	0	0	0	0	0	0	29
12:00 PM	0	0	2	12	18	3	0	0	0	0	0	0	0	0	35
1:00	0	0	3	15	16	4	0	0	0	0	0	0	0	0	38
2:00	0	0	3	11	15	2	1	0	0	0	0	0	0	0	32
3:00	0	0	1	20	14	3	1	0	0	0	0	0	0	0	39
4:00	0	0	7	14	16	1	0	1	0	0	0	0	0	0	39
5:00	0	0	4	6	15	4	1	0	0	0	0	0	0	0	30
6:00	0	0	3	3	6	2	0	0	0	0	0	0	0	0	14
7:00	0	0	3	5	2	1	0	0	0	0	0	0	0	0	11
8:00	0	0	3	2	4	0	0	0	0	0	0	0	0	0	9
9:00	0	0	2	2	2	2	0	0	0	0	0	0	0	0	8
10:00	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
11:00	0	0	1	1	0	0	0	0	0	0	0	0	0	0	2
Total	0	0	48	160	182	57	9	1	0	0	0	0	0	0	457

Percentile	15th	50th	85th	95th
Speed	8	11	14	16
Mean Speed (Average)	12.8			
10 MPH Pace Speed	8-17			
Number in Pace	420			
Percent in Pace	92.0%			
Number > 12 MPH	249			
Percent > 12 MPH	54.5%			

Accurate Counts
978-664-2565

Location : Hanover Street
Location : East of Rock Street
City/State: Portsmouth, NH
Direction: EB,

Site Code: 10068001

8/7/2024	0 - 3	> 3 - 6	> 6 - 9	> 9 - 12	> 12 - 15	> 15 - 18	> 18 - 21	> 21 - 24	> 24 - 27	> 27 - 30	> 30 - 33	> 33 - 36	> 36 - 39	> 39	Total
Time	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	
12:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
2:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00	0	0	1	3	1	0	0	0	0	0	0	0	0	0	5
5:00	0	0	1	1	3	0	0	0	0	0	0	0	0	0	5
6:00	0	0	3	4	4	1	0	0	0	0	0	0	0	0	12
7:00	0	0	0	5	13	3	1	0	0	0	0	0	0	0	22
8:00	0	0	1	12	17	7	2	0	0	0	0	0	0	0	39
9:00	0	0	5	13	11	4	3	0	0	0	0	0	0	0	36
10:00	0	0	2	10	15	7	2	0	0	0	0	0	0	0	36
11:00	0	0	5	14	10	5	3	0	0	0	0	0	0	0	37
12:00 PM	0	0	7	15	11	2	1	0	0	0	0	0	0	0	36
1:00	0	0	2	9	9	3	0	1	0	0	0	0	0	0	24
2:00	0	0	2	15	14	0	3	0	0	0	0	0	0	0	34
3:00	0	0	4	9	12	3	1	0	0	0	0	0	0	0	29
4:00	0	0	9	12	15	5	1	0	0	0	0	0	0	0	42
5:00	0	0	2	10	10	1	1	0	0	0	0	0	0	0	24
6:00	0	0	4	9	6	2	1	0	0	0	0	0	0	0	22
7:00	0	0	2	7	3	1	0	0	0	0	0	0	0	0	13
8:00	0	0	2	3	2	1	1	0	0	0	0	0	0	0	9
9:00	0	0	1	2	3	0	0	0	0	0	0	0	0	0	6
10:00	0	0	1	0	1	0	0	0	0	0	0	0	0	0	2
11:00	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Total	0	0	55	154	160	45	20	1	0	0	0	0	0	0	435

Percentile	15th	50th	85th	95th
Speed	8	11	15	16
Mean Speed (Average)	12.7			
10 MPH Pace Speed	8-17			
Number in Pace	389			
Percent in Pace	90.0%			
Number > 12 MPH	226			
Percent > 12 MPH	52.0%			

Grand Total	0	0	103	314	342	102	29	2	0	0	0	0	0	0	892
Stats															
Percentile				15th	50th	85th	95th								
Speed				8	11	14	16								
Mean Speed (Average)				12.8											
10 MPH Pace Speed				8-17											
Number in Pace				810											
Percent in Pace				91.0%											
Number > 12 MPH				475											
Percent > 12 MPH				53.3%											

Accurate Counts
978-664-2565

Location : Hanover Street
Location : East of Rock Street
City/State: Portsmouth, NH
Direction: Combined

Site Code: 10068001

8/6/2024	0 - 3	> 3 - 6	> 6 - 9	> 9 - 12	> 12 - 15	> 15 - 18	> 18 - 21	> 21 - 24	> 24 - 27	> 27 - 30	> 30 - 33	> 33 - 36	> 36 - 39	> 39	Total
Time	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	
12:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:00	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
2:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00	0	0	1	1	0	0	0	0	0	0	0	0	0	0	2
5:00	0	0	0	2	0	1	0	0	0	0	0	0	0	0	3
6:00	0	0	2	4	4	2	2	0	0	0	0	0	0	0	14
7:00	0	0	2	4	14	6	1	0	0	0	0	0	0	0	27
8:00	0	0	3	11	21	13	3	0	0	0	0	0	0	0	51
9:00	0	0	3	19	15	5	0	0	0	0	0	0	0	0	42
10:00	0	0	7	16	10	5	1	0	0	0	0	0	0	0	39
11:00	0	0	1	15	12	3	0	0	0	0	0	0	0	0	31
12:00 PM	0	0	2	14	18	4	0	0	0	0	0	0	0	0	38
1:00	0	0	4	16	16	4	0	0	0	0	0	0	0	0	40
2:00	0	0	5	13	16	2	2	0	0	0	0	0	0	0	38
3:00	0	0	3	21	14	3	1	0	0	0	0	0	0	0	42
4:00	0	0	7	15	18	1	0	1	0	0	0	0	0	0	42
5:00	0	0	5	8	16	4	1	0	0	0	0	0	0	0	34
6:00	0	0	3	3	6	3	0	0	0	0	0	0	0	0	15
7:00	0	0	4	6	2	1	0	0	0	0	0	0	0	0	13
8:00	0	0	3	2	4	0	0	0	0	0	0	0	0	0	9
9:00	0	0	3	2	3	2	0	0	0	0	0	0	0	0	10
10:00	0	0	1	1	0	0	0	0	0	0	0	0	0	0	2
11:00	0	0	1	1	0	0	0	0	0	0	0	0	0	0	2
Total	0	0	60	175	189	59	11	1	0	0	0	0	0	0	495
			Percentile	15th	50th	85th	95th								
			Speed	8	11	14	16								
			Mean Speed (Average)	12.6											
			10 MPH Pace Speed	7-16											
			Number in Pace	451											
			Percent in Pace	91.0%											
			Number > 12 MPH	260											
			Percent > 12 MPH	52.5%											

Accurate Counts
978-664-2565

Location : Hanover Street
Location : East of Rock Street
City/State: Portsmouth, NH
Direction: Combined

Site Code: 10068001

8/7/2024	0 - 3	> 3 - 6	> 6 - 9	> 9 - 12	> 12 - 15	> 15 - 18	> 18 - 21	> 21 - 24	> 24 - 27	> 27 - 30	> 30 - 33	> 33 - 36	> 36 - 39	> 39	Total
Time	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	
12:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
2:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00	0	0	2	3	1	0	0	0	0	0	0	0	0	0	6
5:00	0	0	1	1	3	0	0	0	0	0	0	0	0	0	5
6:00	0	0	4	5	5	1	0	0	0	0	0	0	0	0	15
7:00	0	0	2	8	13	4	1	0	0	0	0	0	0	0	28
8:00	0	0	2	17	17	7	3	0	0	0	0	0	0	0	46
9:00	0	0	9	16	12	4	3	0	0	0	0	0	0	0	44
10:00	0	0	5	15	15	7	2	0	0	0	0	0	0	0	44
11:00	0	0	6	18	10	6	3	0	0	0	0	0	0	0	43
12:00 PM	0	0	13	16	12	2	1	0	0	0	0	0	0	0	44
1:00	0	0	3	10	9	3	0	1	0	0	0	0	0	0	26
2:00	0	0	6	18	14	1	3	0	0	0	0	0	0	0	42
3:00	0	0	7	12	13	3	2	0	0	0	0	0	0	0	37
4:00	0	0	9	12	16	5	1	0	0	0	0	0	0	0	43
5:00	0	0	4	10	11	1	2	0	0	0	0	0	0	0	28
6:00	0	0	4	10	6	2	1	0	0	0	0	0	0	0	23
7:00	0	0	2	8	3	2	0	0	0	0	0	0	0	0	15
8:00	0	0	2	5	2	1	1	0	0	0	0	0	0	0	11
9:00	0	0	2	2	3	0	0	0	0	0	0	0	0	0	7
10:00	0	0	1	0	1	0	0	0	0	0	0	0	0	0	2
11:00	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Total	0	0	85	187	166	49	23	1	0	0	0	0	0	0	511

Percentile	15th	50th	85th	95th
Speed	8	11	14	16
Mean Speed (Average)	12.4			
10 MPH Pace Speed	7-16			
Number in Pace	460			
Percent in Pace	91.0%			
Number > 12 MPH	239			
Percent > 12 MPH	46.8%			

Grand Total	0	0	145	362	355	108	34	2	0	0	0	0	0	0	1006
Stats															
Percentile				15th	50th	85th	95th								
Speed				8	11	14	16								
Mean Speed (Average)				12.5											
10 MPH Pace Speed				7-16											
Number in Pace				913											
Percent in Pace				91.0%											
Number > 12 MPH				499											
Percent > 12 MPH				49.6%											

TRANSIT INFORMATION

COAST Routes 12, 13, 14 Bus Stop List

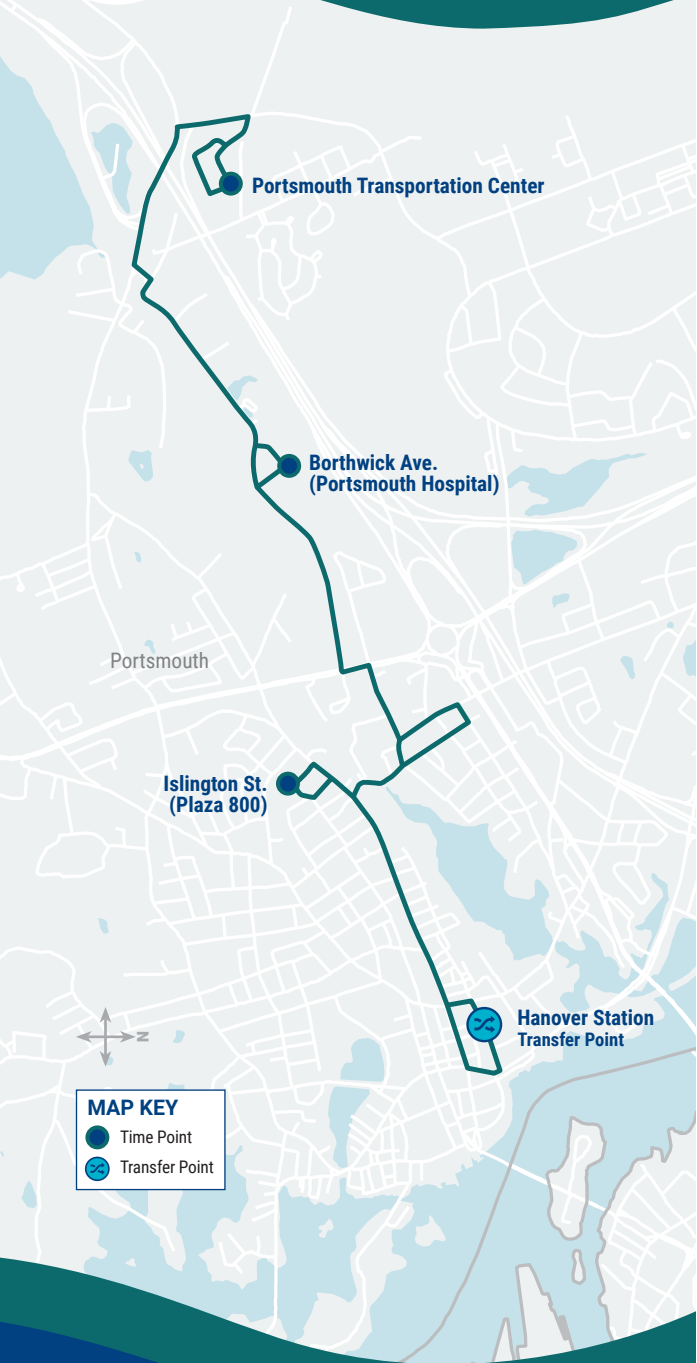
13 North

Stop Number	Stop Name
2253	Hanover Station
2504	Russell St. (Sheraton Harborside)
2552	Dover Point Rd. (Coastal Furniture)
2555	Dover Point Rd. / Homestead Ln. Northbound
2558	Dover Point Rd. / Pearson Dr. Northbound
2561	Dover Point Rd. / Roberta Dr.
2564	Dover Point / Roberts Rds. Northbound
2567	Dover Point Rd. / Riverside Dr.
9057	Dover Point Rd. (St. Thomas Aquinas High School) Northbound
2573	Dover Point / Middle Rds. Northbound
2576	Dover Point Rd. / Tuttle Ln.
2579	Dover Point Rd. / Toftree Ln.
2582	Dover Point Rd. / Constitution Way Northbound
2585	Dover Point Rd. (Dover Point Office Park)
2588	Dover Point Rd. (Bill Dube Ford)
2591	Dover Point Rd. / Pointe Pl.
2594	Dover Point Rd. (Weathervane Restaurant)
2597	Stark Ave. / Hawthorn Rd.
2600	Stark Ave. / Beech Rd.
2603	Central Ave. (Pine Hill Cemetery)
2606	Central Ave. / Union St.
2609	Central Ave. (Central Towers)
2618	Chestnut / Orchard Sts. (Coheco Park)
9009	Dover Transportation Center

40

Route 40 Map

Portsmouth Islington Borthwick



Ride Information

COAST BUS FARES

Base Cash Fare **\$1.50**
All passengers ages 5 and up are required to pay this fare each time they board a COAST bus.

Half-Fare **\$ 0.75**
Passengers 65 and older, or passengers with a disability are entitled to pay half the cash fare. Proof of eligibility is required by showing a Medicare card, photo ID with birth date, COAST ADA Paratransit Card, or COAST Half-Fare Card. Please contact COAST to apply for a Half-Fare Card.

Multi-Ride Tickets and Passes
Available at www.coastbus.org or call 603-743-5777, TTY 711.

Unlimited Monthly Pass **\$ 52**
Unlimited rides on COAST Routes for the month.

YOUR RIGHTS

COAST adheres to all Federal regulations regarding Civil Rights. If you need to request an ADA Reasonable Modification/ Accommodation, or if you believe you have been discriminated against or would like to file a complaint under the ADA or Title VI, please contact COAST's Civil Rights Officer at 603-516-0788, TTY 711 or email CivilRights@coastbus.org.

NO SERVICE DAYS

COAST does not operate on the following holidays:

- New Year's Day
- Martin Luther King Jr./ Civil Rights Day
- Memorial Day
- Independence Day
- Labor Day
- Thanksgiving Day
- Christmas Eve Day
- Christmas Day



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Bus Schedule & Map 40



Effective
09.17.22

ROUTE
40

Portsmouth Islington Borthwick



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MAP OUT YOUR GAME PLAN

Planning your trip has never been easier!

www.coastbus.org



COAST SYSTEM MAP



OUTBOUND • INBOUND

Route 40

Portsmouth • Islington • Borthwick

How to Read the Schedule

Printed bus schedules only show the timepoints ● (major bus stops where the bus will hold until the scheduled departure time). In between those timepoints are many other stops that you can use. For a full listing of bus stops, visit www.coastbus.org, or use the Passio GO! App.

The times shown represent the number of minutes after the hour that the bus will depart from that stop. Last stop times are arrivals. Any exceptions will be noted.

OUTBOUND (M-Sat)	Service On Every Hour		
Hanover Station - Portsmouth Transportation Center	First Bus	Minutes Past Hour	Last Bus
● Hanover Station	6:00am	:00*	7:00pm
● Islington St. (Plaza 800)	6:07am	:07*	7:07pm
● Borthwick Ave. (Ports. Hospital)	6:15am	:15*	7:15pm
● Portsmouth Transportation Center	6:23am	:23*	7:23pm

*No Service during the hour of 3pm.

INBOUND (M-Sat)	Service On Every Hour		
Portsmouth Transportation Center - Hanover Station	First Bus	Minutes Past Hour	Last Bus
● Portsmouth Transportation Center	6:24am	:24*	7:24pm
● Borthwick Ave. (Ports. Hospital)	6:31am	:31*	7:31pm
● Islington St. (Plaza 800)	6:39am	:39*	7:39pm
● Hanover Station	6:47am	:47*	7:47pm

*No Service during the hour of 3pm.



Passio GO! App
 Download the Passio GO! App for real-time information at the Google Play or App store.



Making Connections

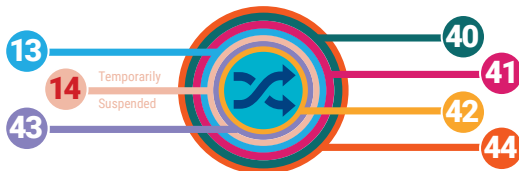
Please tell your driver if you are trying to make a connection to another Route.

TRANSFER POINTS

☞ Hanover Station	13 14 40 41 42 43 44
☞ Dover Transportation Center	1 12 13 33 _{M-F} 33 _{SAT} 34
☞ Dover NHDOT Park & Ride (Exit 9)	1 14
☞ Rochester City Hall	6 12 14

14 33_{SAT} Temporarily suspended part of route due to driver shortage.

Hanover Station, Portsmouth

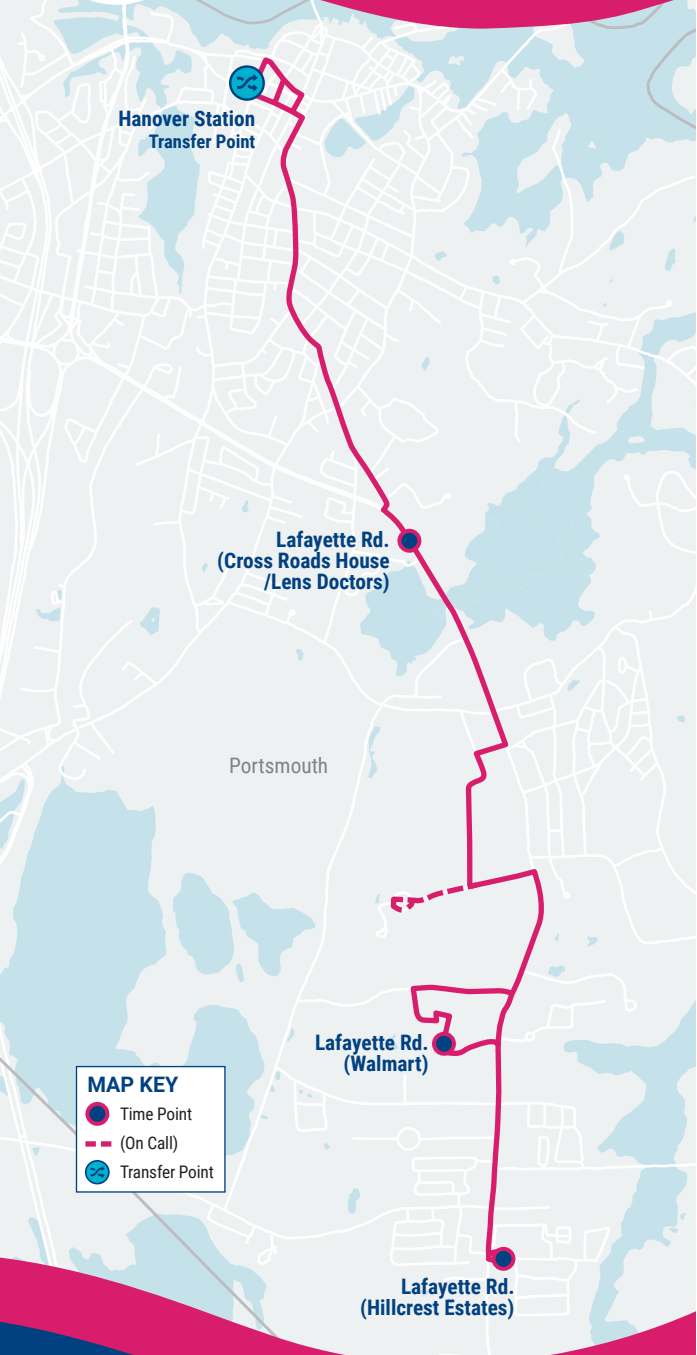


MAP IT!

For a full listing of bus stops, visit www.coastbus.org or use the Passio GO! App.

41

Route 41 Map Portsmouth • Lafayette Road



Ride Information

COAST BUS FARES

Base Cash Fare **\$1.50**
All passengers ages 5 and up are required to pay this fare each time they board a COAST bus.

Half-Fare **\$ 0.75**
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- Martin Luther King Jr./ Civil Rights Day
- Thanksgiving Day
- Memorial Day
- Christmas Eve Day
- Independence Day
- Christmas Day



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Bus Schedule & Map 41



Effective
09.17.22

ROUTE 41

Portsmouth • Lafayette Road



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www.coastbus.org



COAST SYSTEM MAP



OUTBOUND • INBOUND

Route 41 Portsmouth • Lafayette Road

How to Read the Schedule

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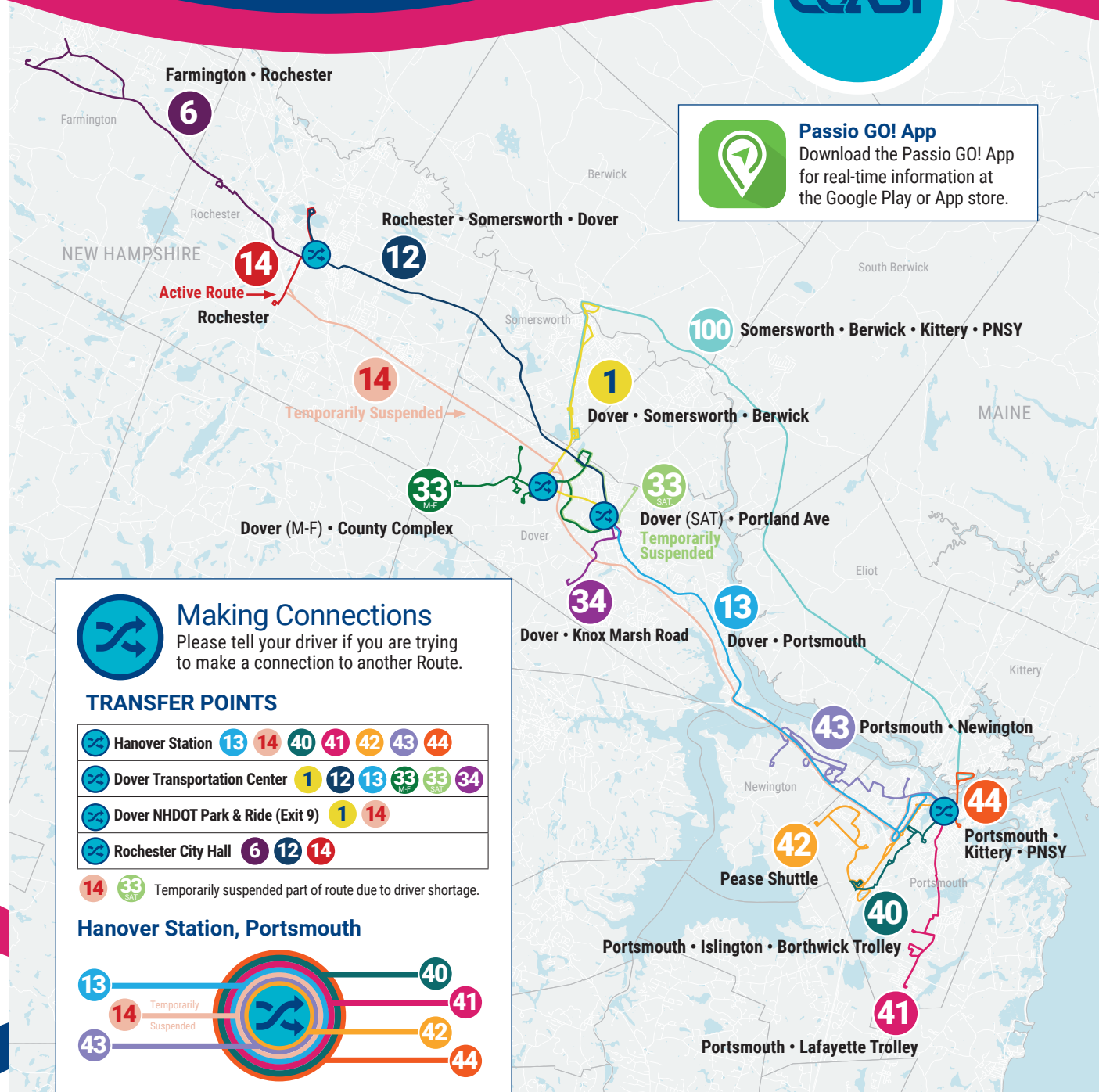
OUTBOUND (M-Sat)	Service On Every Hour		
Hanover Station - Lafayette Rd. (Hillcrest Estates)	First Bus	Minutes Past Hour	Last Bus
• Hanover Station	6:00am	:00	8:00pm
• Lafayette Rd. (Cross Roads House)	6:10am	:10	8:10pm
• Lafayette Rd. (Walmart)	6:20am	:20	8:20pm
• Lafayette Rd. (Hillcrest Estates)	6:29am	:29	8:29pm

INBOUND (M-Sat)	Service On Every Hour		
Lafayette Rd. (Hillcrest Estates) - Hanover Station	First Bus	Minutes Past Hour	Last Bus
• Lafayette Rd. (Hillcrest Estates)	6:30am	:30	8:30pm
• Lafayette Rd. (Lens Doctors)	6:38am	:38	8:38pm
• Hanover Station	6:49am	:49	8:49pm



MAP IT!

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Passio GO! App
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Making Connections

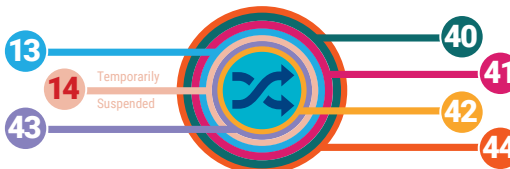
Please tell your driver if you are trying to make a connection to another Route.

TRANSFER POINTS

	Hanover Station	13	14	40	41	42	43	44
	Dover Transportation Center	1	12	13	33 _{M-F}	33 _{SAT}	34	
	Dover NHDOT Park & Ride (Exit 9)	1	14					
	Rochester City Hall	6	12	14				

Temporarily suspended part of route due to driver shortage.

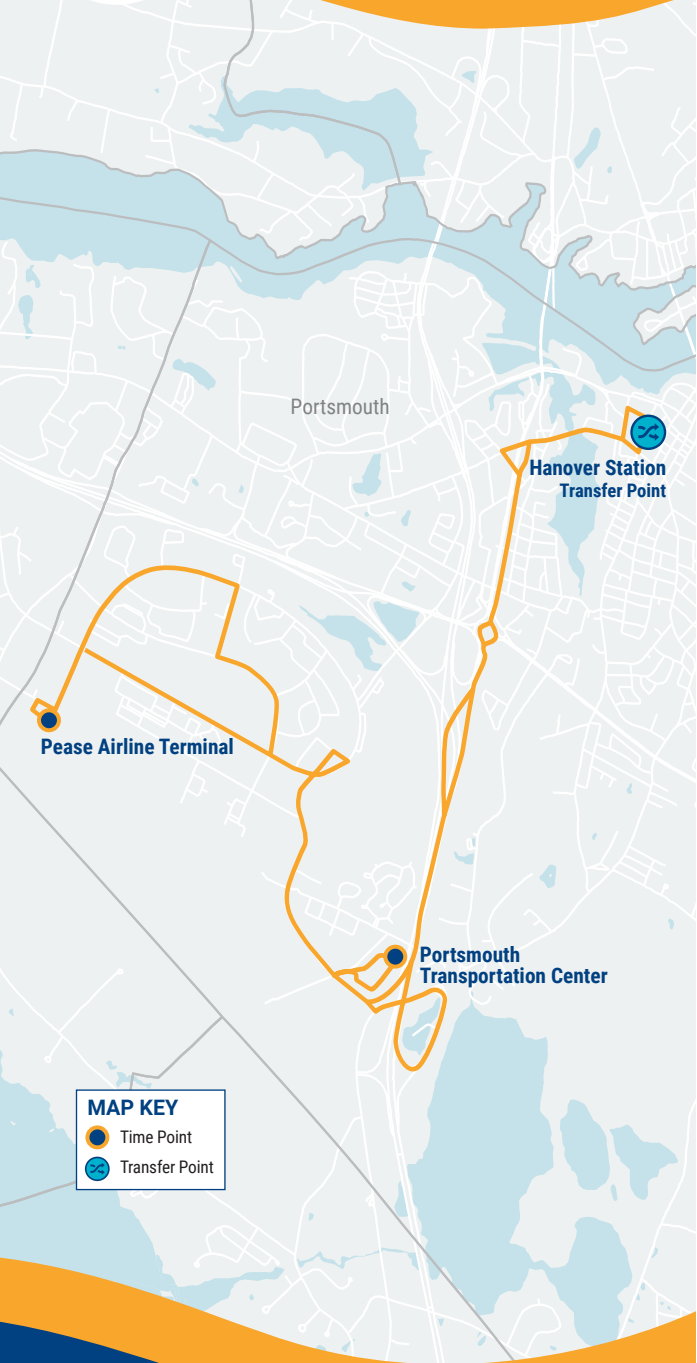
Hanover Station, Portsmouth



42

Route 42 Map

Portsmouth • Pease Shuttle



Ride Information

COAST BUS FARES

Base Cash Fare **\$1.50**
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Half-Fare **\$ 0.75**
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Multi-Ride Tickets and Passes
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Unlimited Monthly Pass **\$ 52**
Unlimited rides on COAST Routes for the month.

YOUR RIGHTS

COAST adheres to all Federal regulations regarding Civil Rights. If you need to request an ADA Reasonable Modification/ Accommodation, or if you believe you have been discriminated against or would like to file a complaint under the ADA or Title VI, please contact COAST's Civil Rights Officer at 603-516-0788, TTY 711 or email CivilRights@coastbus.org.

NO SERVICE DAYS

COAST does not operate on the following holidays:

- New Year's Day
- Martin Luther King Jr./ Civil Rights Day
- Memorial Day
- Independence Day
- Labor Day
- Thanksgiving Day
- Christmas Eve Day
- Christmas Day



42 Sumner Drive • Dover, NH 03820
603-743-5777 • TTY 711 • www.coastbus.org
This brochure is available in alternative formats upon request.

Bus Schedule & Map 42



Effective 07.01.22

ROUTE 42

Portsmouth • Pease Shuttle



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MAP OUT YOUR GAME PLAN

Planning your trip has never been easier!

www.coastbus.org



COAST SYSTEM MAP



OUTBOUND • INBOUND

Route 42 Portsmouth • Pease Shuttle

How to Read the Schedule

Printed bus schedules only show the timepoints (major bus stops where the bus will hold until the scheduled departure time). In between those timepoints are many other stops that you can use. For a full listing of bus stops, visit www.coastbus.org, or use the Passio Go! App.

The times shown represent the number of minutes after the hour that the bus will depart from that stop. Last stop times are arrivals. Any exceptions will be noted.

OUTBOUND (M-F)	Service On Every Hour		
Hanover Station - Pease Airline Terminal	First Bus	Minutes Past Hour	Last Bus
Hanover Station	6:22am	:00*	6:00pm
Portsmouth Transportation Center	6:33am	:11*	6:11pm
Pease Airline Terminal	6:42am	:20*	6:20pm

**Regular hourly schedule starts during the hour of 7am and No Service during the hour of 10am.*

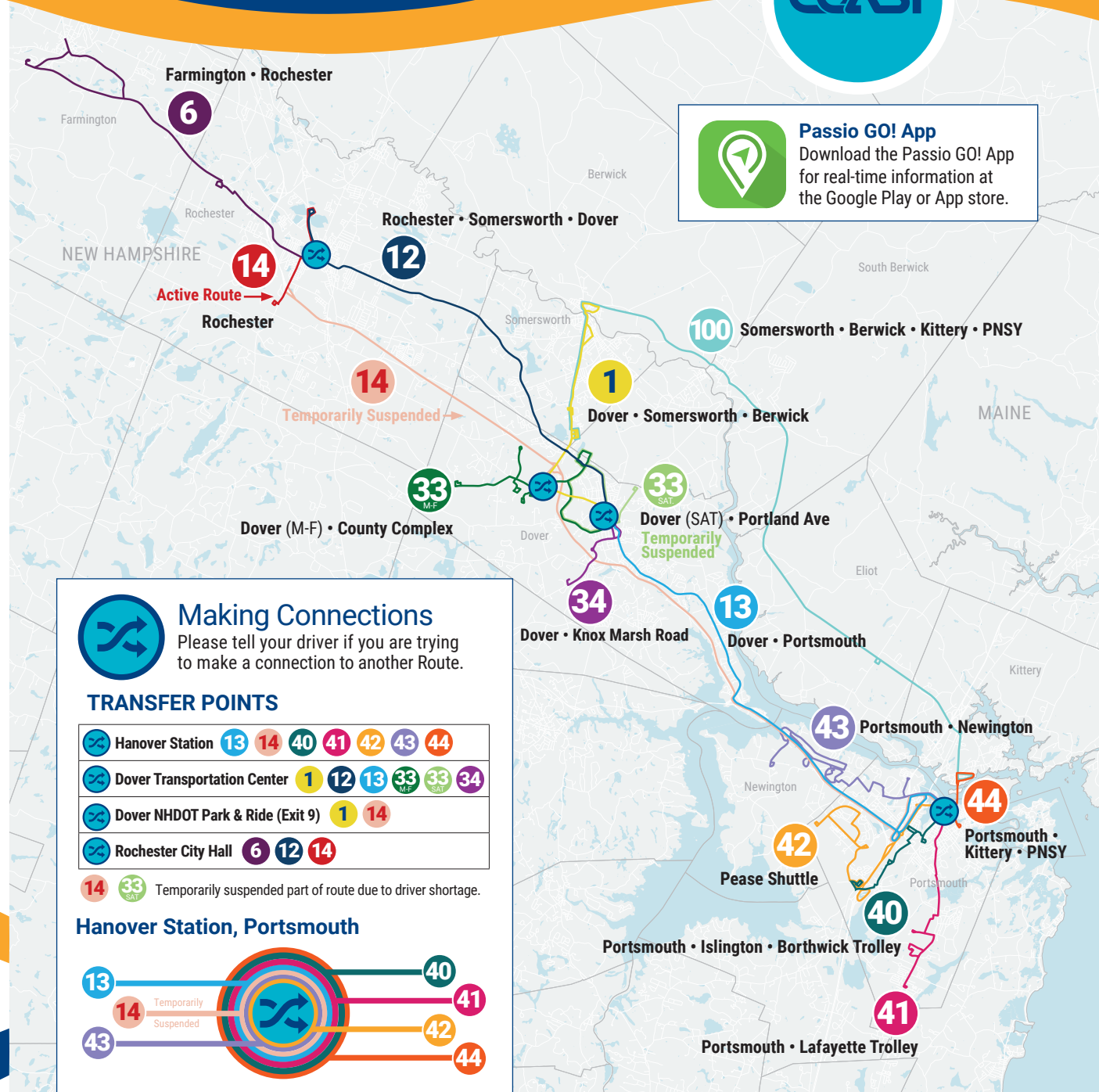
INBOUND (M-F)	Service On Every Hour		
Pease Airline Terminal - Hanover Station	First Bus	Minutes Past Hour	Last Bus
Pease Airline Terminal	6:43am	:21*	6:21pm
Portsmouth Transportation Center	6:47am	:25*	6:25pm
Hanover Station	6:57am	:35*	6:35pm

**Regular hourly schedule starts during the hour of 7am and No Service during the hour of 10am.*



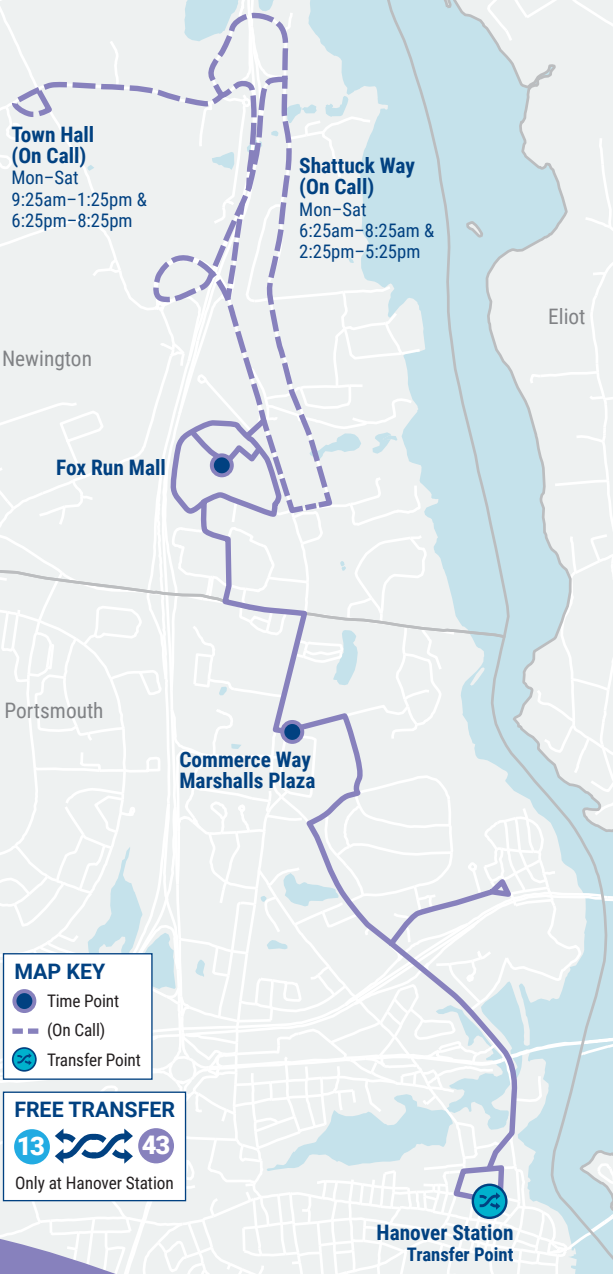
MAP IT!

For a full listing of bus stops, visit www.coastbus.org or use the Passio GO! App.



43

Route 43 Map Portsmouth · Newington



Ride Information

COAST BUS FARES

Base Cash Fare **\$1.50**
All passengers ages 5 and up are required to pay this fare each time they board a COAST bus.

Half-Fare **\$ 0.75**
Passengers 65 and older, or passengers with a disability are entitled to pay half the cash fare. Proof of eligibility is required by showing a Medicare card, photo ID with birth date, COAST ADA Paratransit Card, or COAST Half-Fare Card. Please contact COAST to apply for a Half-Fare Card.

Multi-Ride Tickets and Passes
Available at www.coastbus.org or call 603-743-5777, TTY 711.

Unlimited Monthly Pass **\$ 52**
Unlimited rides on COAST Routes for the month.

YOUR RIGHTS

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NO SERVICE DAYS

COAST does not operate on the following holidays:

- New Year's Day
- Labor Day
- Martin Luther King Jr./ Civil Rights Day
- Thanksgiving Day
- Memorial Day
- Christmas Eve Day
- Independence Day
- Christmas Day



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Bus Schedule & Map 43



Effective
09.17.22

ROUTE
43

Portsmouth · Newington



Find all of the full COAST schedules online at coastbus.org

MAP OUT YOUR GAME PLAN

Planning your trip has never been easier!

www.coastbus.org



COAST SYSTEM MAP



EXPRESS • INBOUND • OUTBOUND Route 43 Portsmouth • Newington

How to Read the Schedule

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The times shown represent the number of minutes after the hour that the bus will depart from that stop. Last stop times are arrivals. Any exceptions will be noted.

EXPRESS (M-Sat)	Single Run Only		
DOVER - NEWINGTON	First Bus	Minutes Past Hour	Last Bus
● Dover Transportation Center	6:30am	--	--
● Fox Run Mall	6:45am	--	--

INBOUND (M-Sat)	Service On Every Hour		
NEWINGTON - PORTSMOUTH	First Bus	Minutes Past Hour	Last Bus
● Fox Run Mall	6:30am	:30	8:30pm
● Commerce Way (Marshalls Plaza)	6:36am	:36	8:36pm
● Hanover Station	6:57am	:57	8:57pm

OUTBOUND (M-Sat)	Service On Every Hour		
PORTSMOUTH - NEWINGTON	First Bus	Minutes Past Hour	Last Bus
● Hanover Station	7:00am	:00	8:00pm
● Commerce Way (Marshalls Plaza)	7:09am	:09	8:09pm
● Fox Run Mall	7:22am	:22	8:22pm

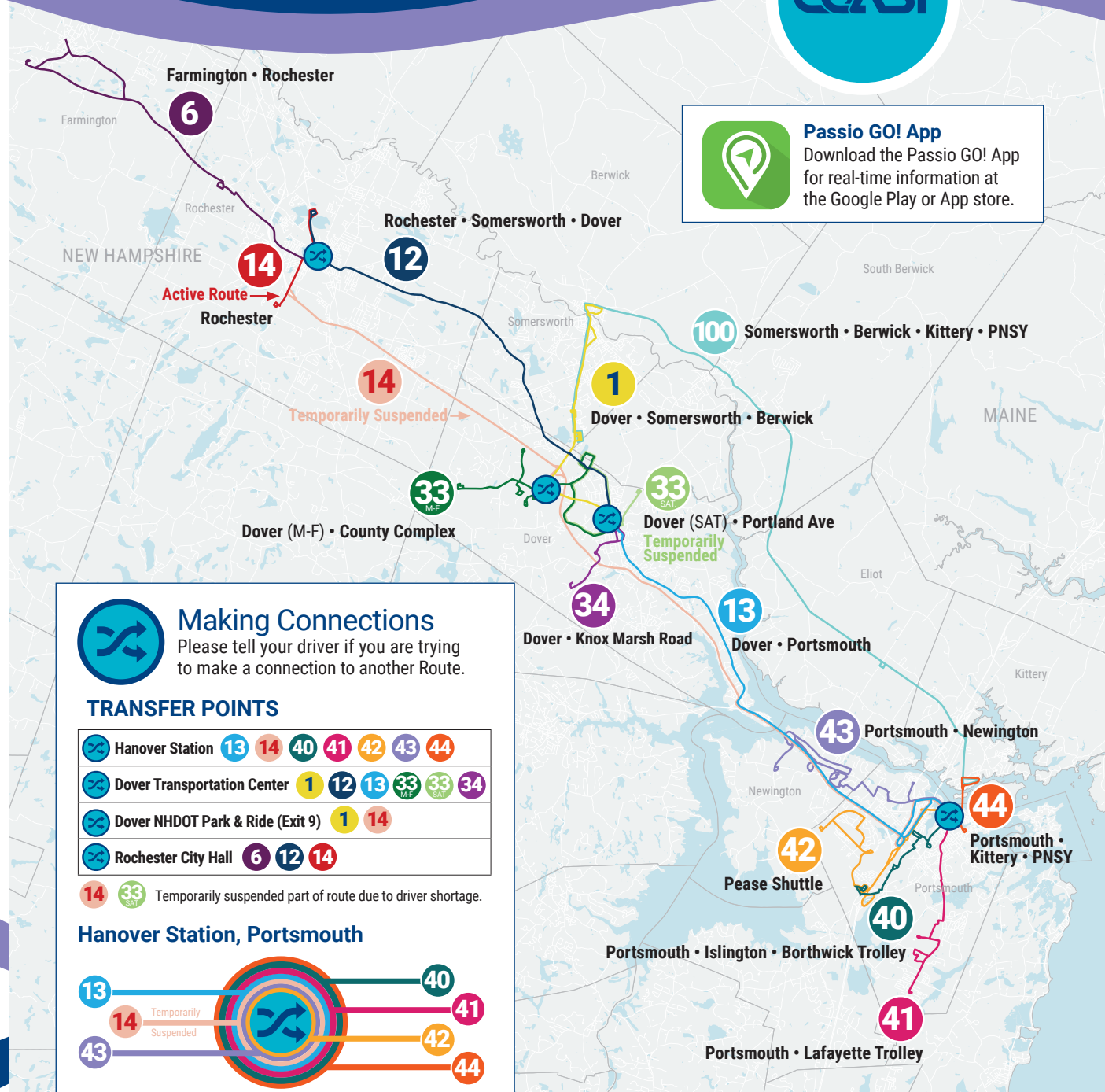


MAP IT!

For a full listing of bus stops, visit www.coastbus.org or use the Passio GO! App.



Passio GO! App
Download the Passio GO! App for real-time information at the Google Play or App store.



44

Route 44 Map Portsmouth • Kittery • PNSY



MAP KEY

- Time Point
- Transfer Point



Ride Information

COAST BUS FARES

Base Cash Fare **\$1.50**
All passengers ages 5 and up are required to pay this fare each time they board a COAST bus.

Half-Fare **\$ 0.75**
Passengers 65 and older, or passengers with a disability are entitled to pay half the cash fare. Proof of eligibility is required by showing a Medicare card, photo ID with birth date, COAST ADA Paratransit Card, or COAST Half-Fare Card. Please contact COAST to apply for a Half-Fare Card.

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- Labor Day
- Thanksgiving Day
- Christmas Eve Day
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Bus Schedule & Map 44



Effective
07.01.22

ROUTE
44

Portsmouth • Kittery • PNSY



Find all of the full COAST schedules online at coastbus.org

MAP OUT YOUR GAME PLAN

Planning your trip has never been easier!

www.coastbus.org



COAST SYSTEM MAP



OUTBOUND • INBOUND

Route 44 Portsmouth • Kittery • PNSY

How to Read the Schedule

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The times shown represent the number of minutes after the hour that the bus will depart from that stop. Last stop times are arrivals. Any exceptions will be noted.

OUTBOUND (M-F)	Service On Every Hour		
Hanover Station - Government St. (PNSY Gate 1)	First Bus	Minutes Past Hour	Last Bus
• Hanover Station	5:54am	:36*	6:36pm
• Junkins Ave. (Portsmouth City Hall)	7:41am	:41*	6:41pm
• Government St. (PNSY Gate 1)	6:00am	:45*	6:45pm

*Regular hourly schedule starts during the hour of 7am.

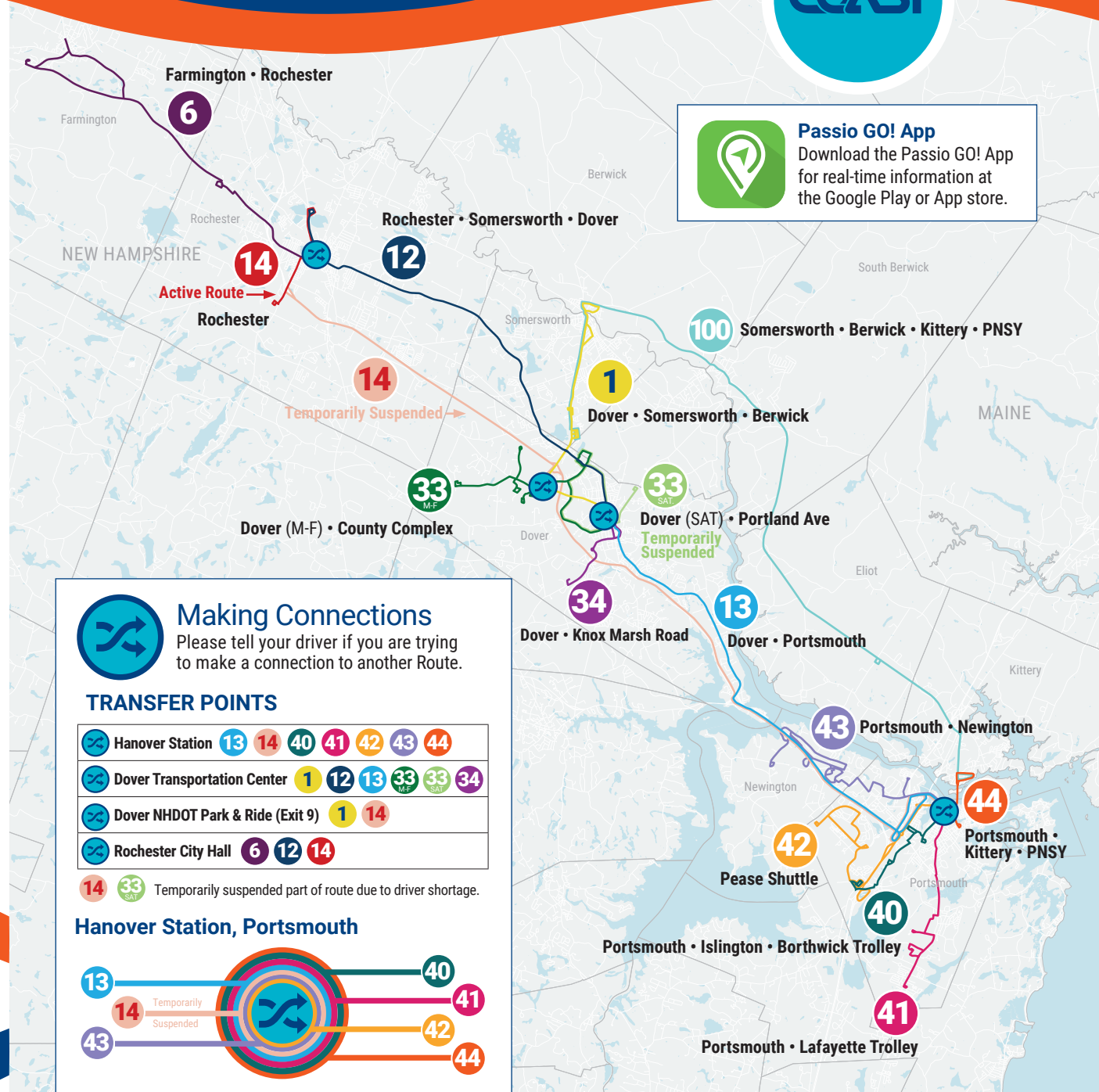
INBOUND (M-F)	Service On Every Hour		
Government St. (PNSY Gate 1) - Hanover Station	First Bus	Minutes Past Hour	Last Bus
• Government St. (PNSY Gate 1)	6:35am	:45*	8:45pm
• Hanover Station	6:42am	:54*	8:54pm

*Regular hourly schedule starts during the hour of 7am.



MAP IT!

For a full listing of bus stops, visit www.coastbus.org or use the Passio GO! App.



Passio GO! App
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Making Connections
Please tell your driver if you are trying to make a connection to another Route.

TRANSFER POINTS

	Hanover Station	13 14 40 41 42 43 44
	Dover Transportation Center	1 12 13 33 _{M-F} 33 _{SAT} 34
	Dover NHDOT Park & Ride (Exit 9)	1 14
	Rochester City Hall	6 12 14

Temporarily suspended part of route due to driver shortage.



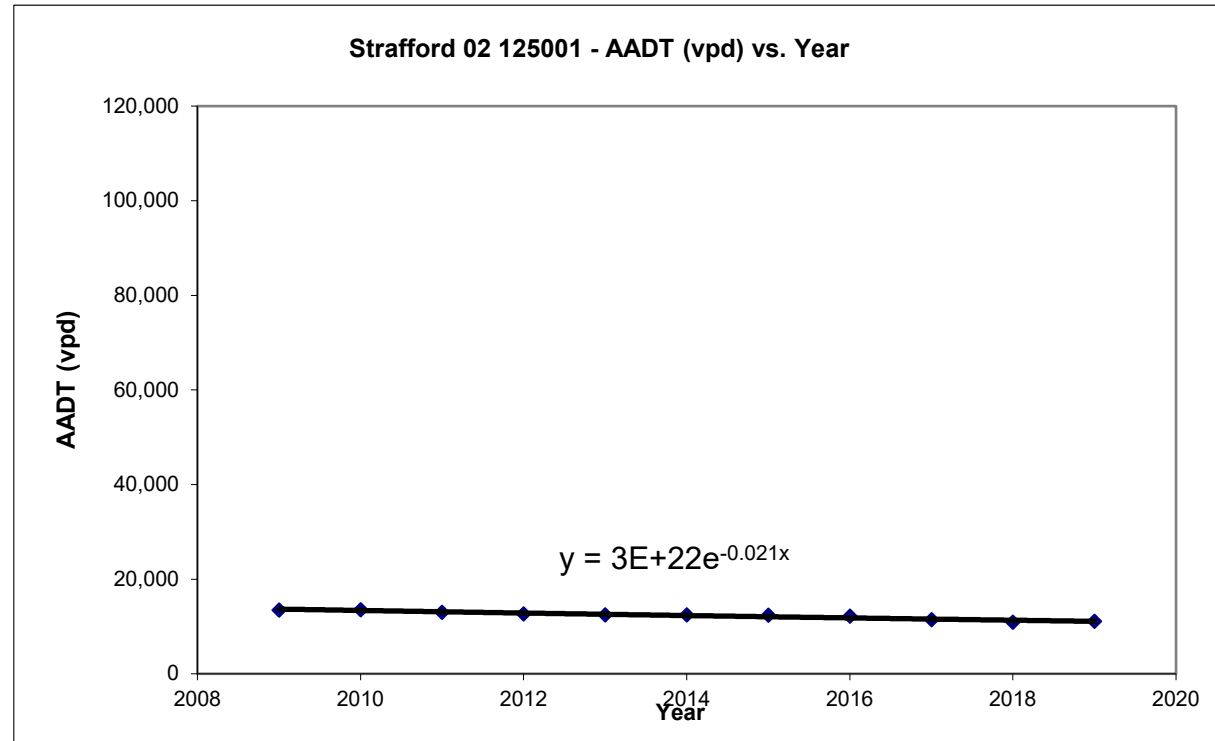
GENERAL BACKGROUND TRAFFIC GROWTH

Station 02125001
 Strafford - Dover Point Rd
 Group 4
 Region E
 FC 11

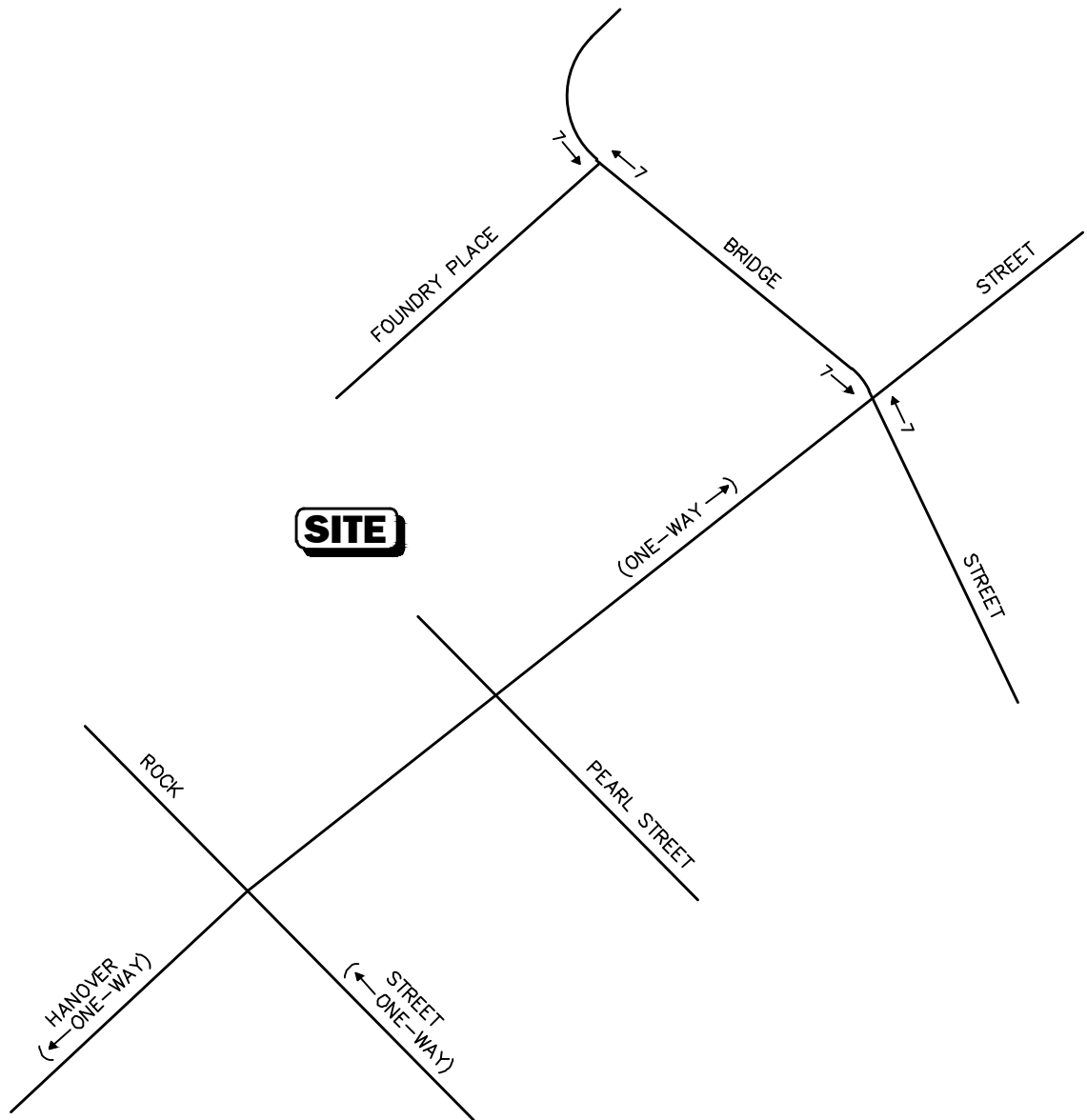
AADT Annual Change

2009	13500	
2010	13567	0.50%
2011	13024	-4.00%
2012	12639	-2.96%
2013	12461	-1.41%
2014	12490	0.23%
2015	12396	-0.75%
2016	12219	-1.43%
2017	11436	-6.41%
2018	10938	-4.35%
2019	11100	1.48%

CAGR	-1.94%
Exp	1.86%
Avg	-0.04%



BACKGROUND DEVELOPMENT TRAFFIC-VOLUME NETWORKS

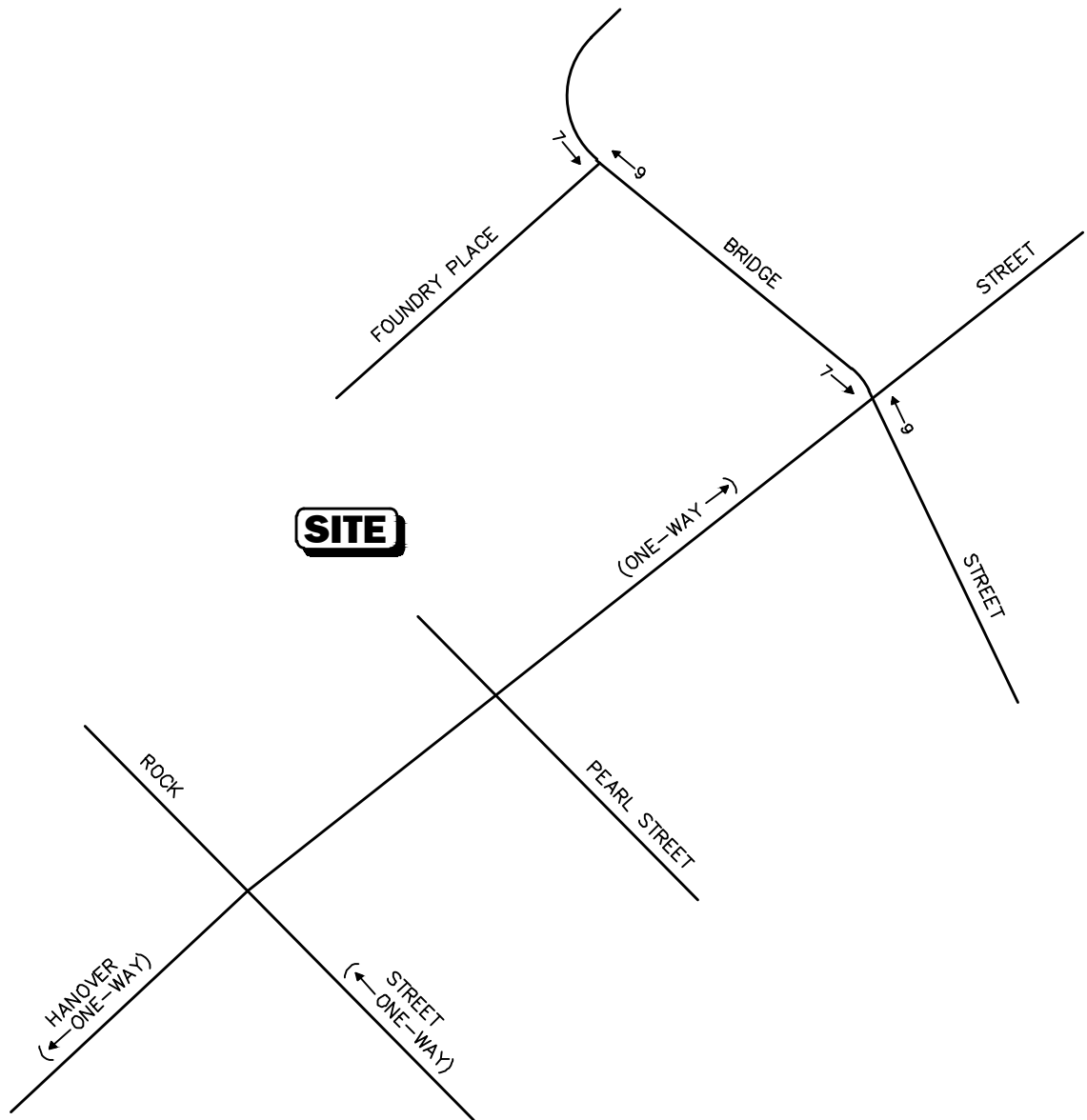


Not To Scale



Figure A-1

70 Maplewood Avenue
Lot 5 Deer Street Development
Weekday Morning
Peak-Hour Traffic Volumes

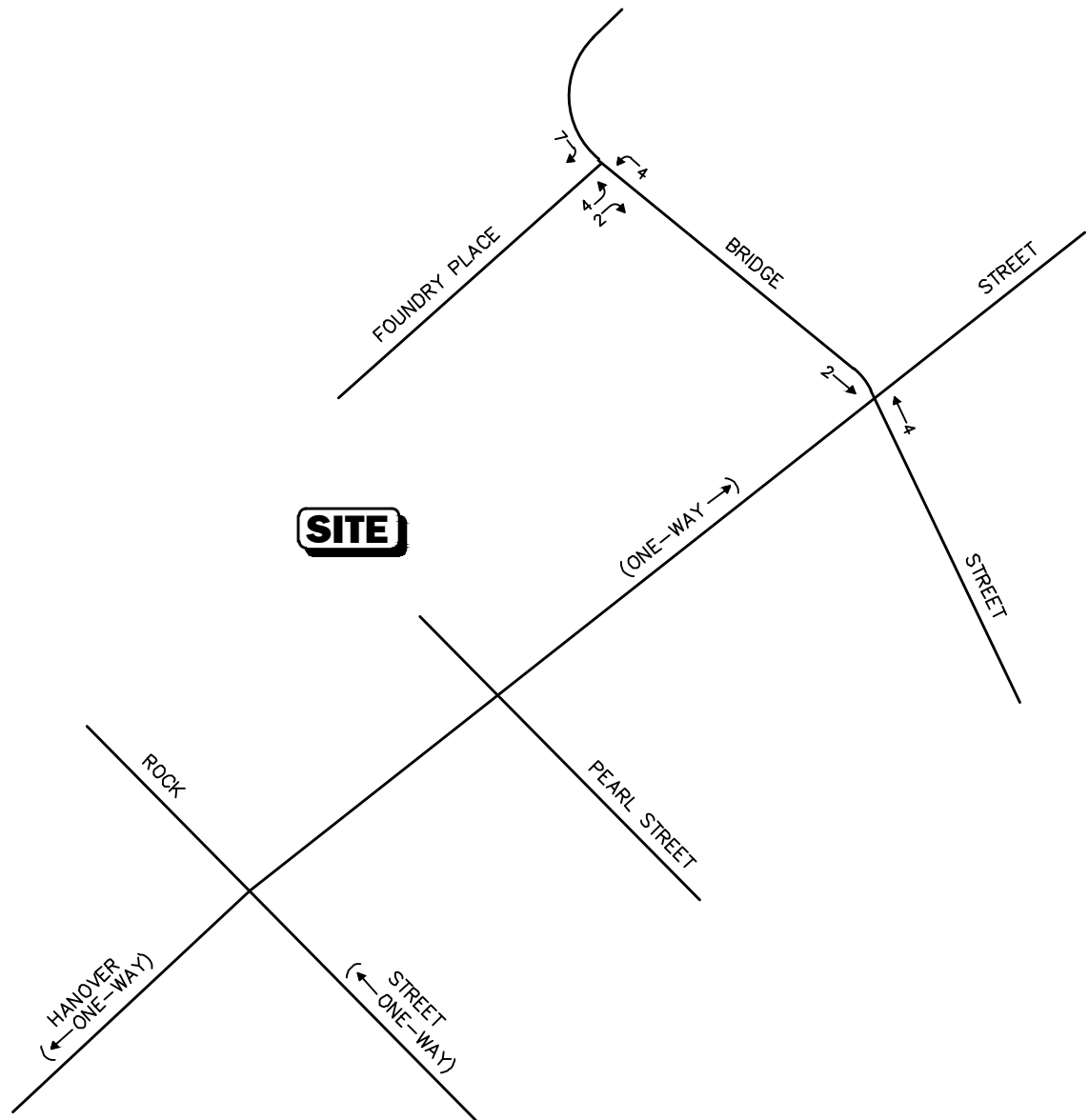


Not To Scale



Figure A-2

70 Maplewood Avenue
Lot 5 Deer Street Development
Weekday Evening
Peak-Hour Traffic Volumes

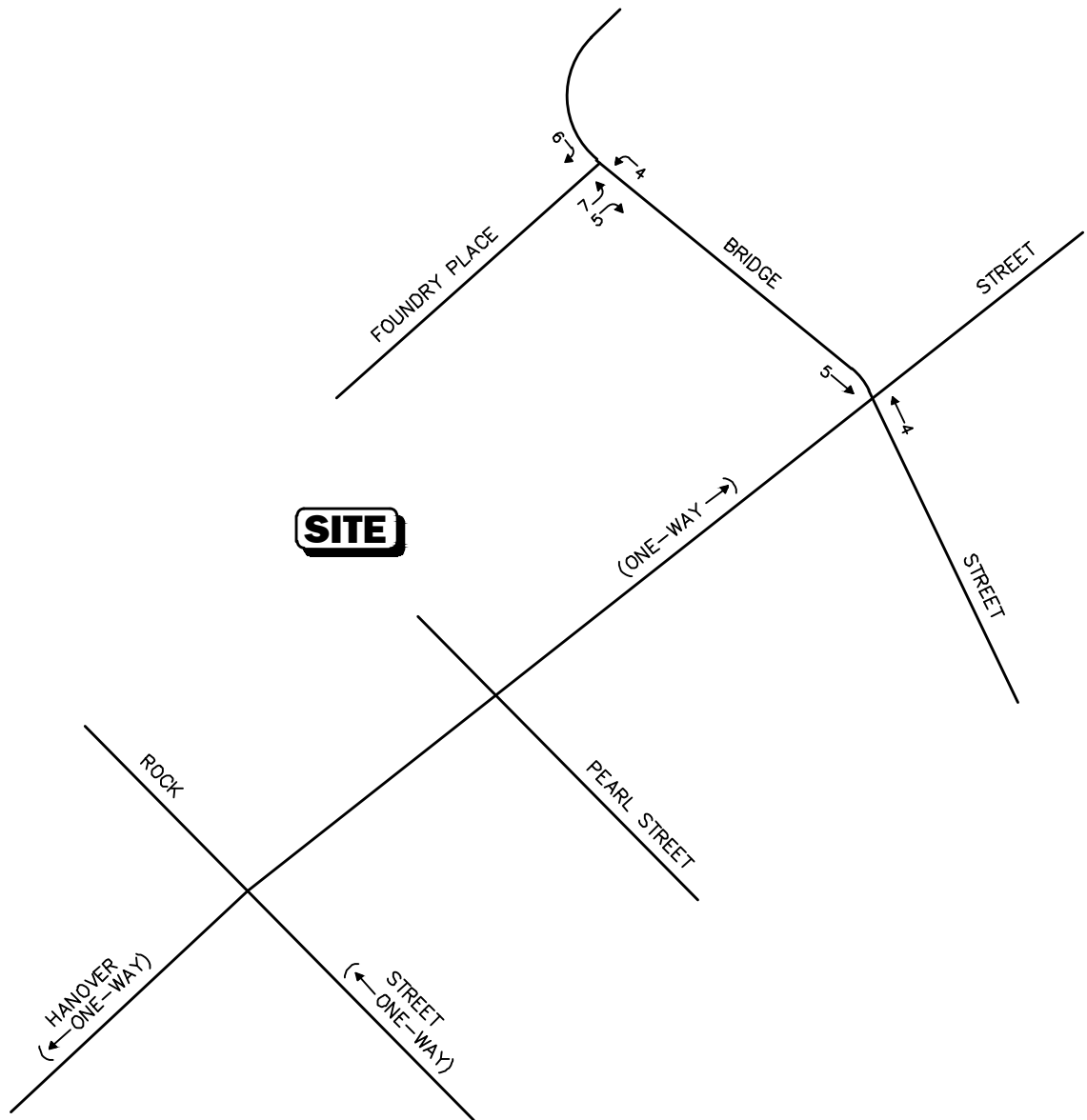


Not To Scale



Figure A-3

Foundry Place Community Space
Lot 2 of Deer Street
Associates Projects
Weekday Morning
Peak-Hour Traffic Volumes

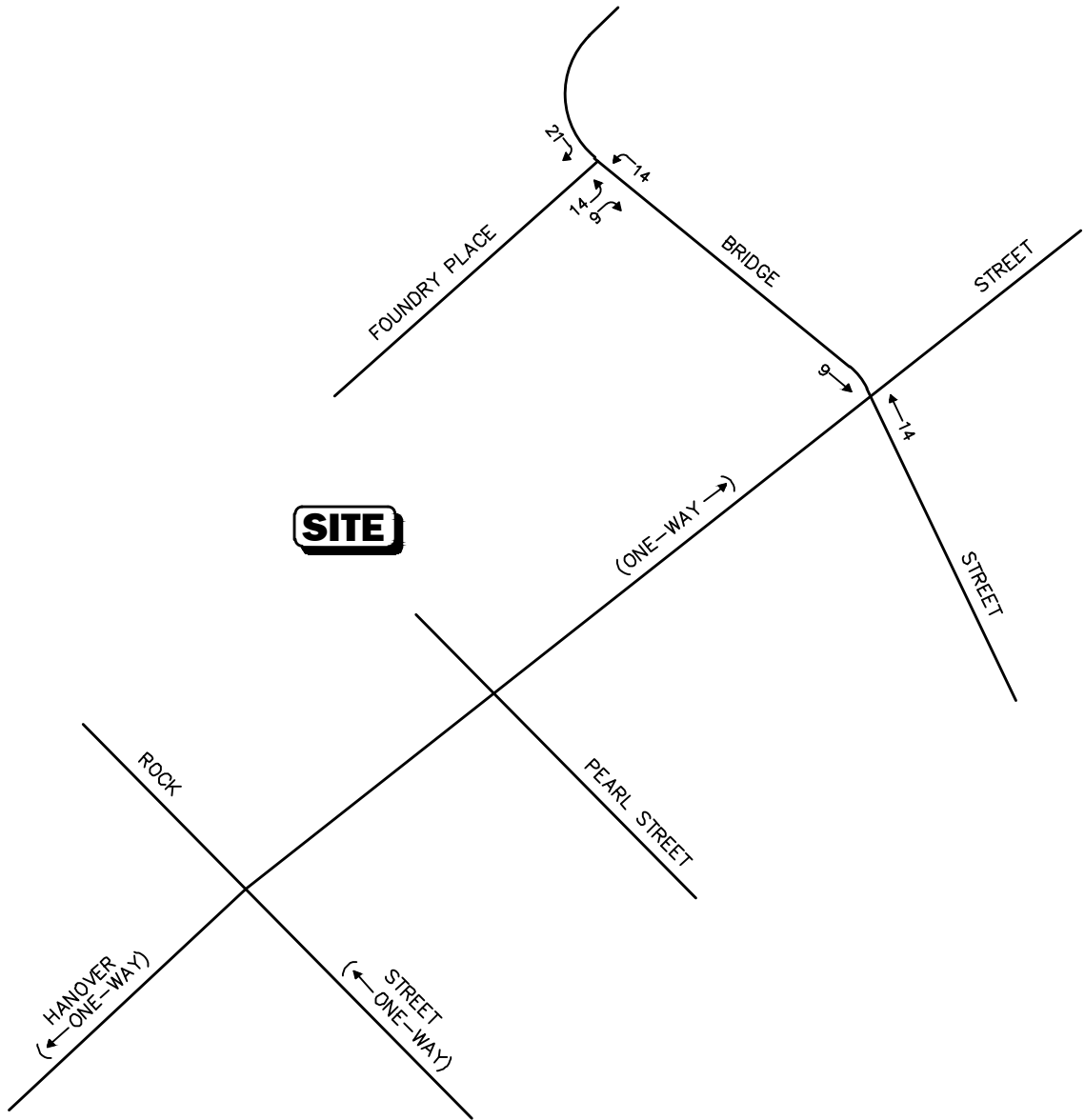


Not To Scale



Figure A-4

Foundry Place Community Space
Lot 2 of Deer Street
Associates Projects
Weekday Evening
Peak-Hour Traffic Volumes

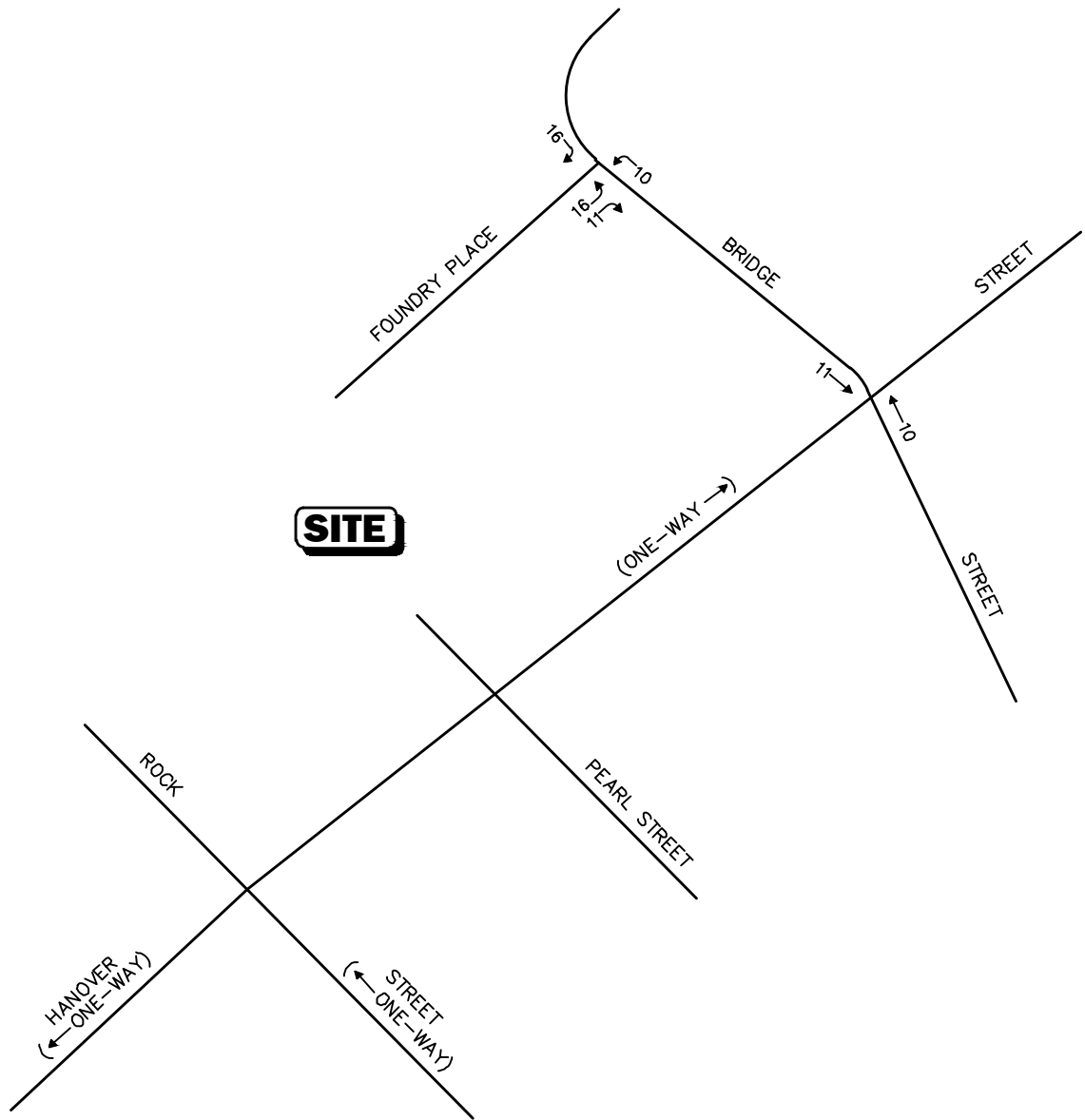


Not To Scale



Figure A-5

165 Deer Street
 Lot 3 of Deer Street
 Associates Projects
 Weekday Morning
 Peak-Hour Traffic Volumes

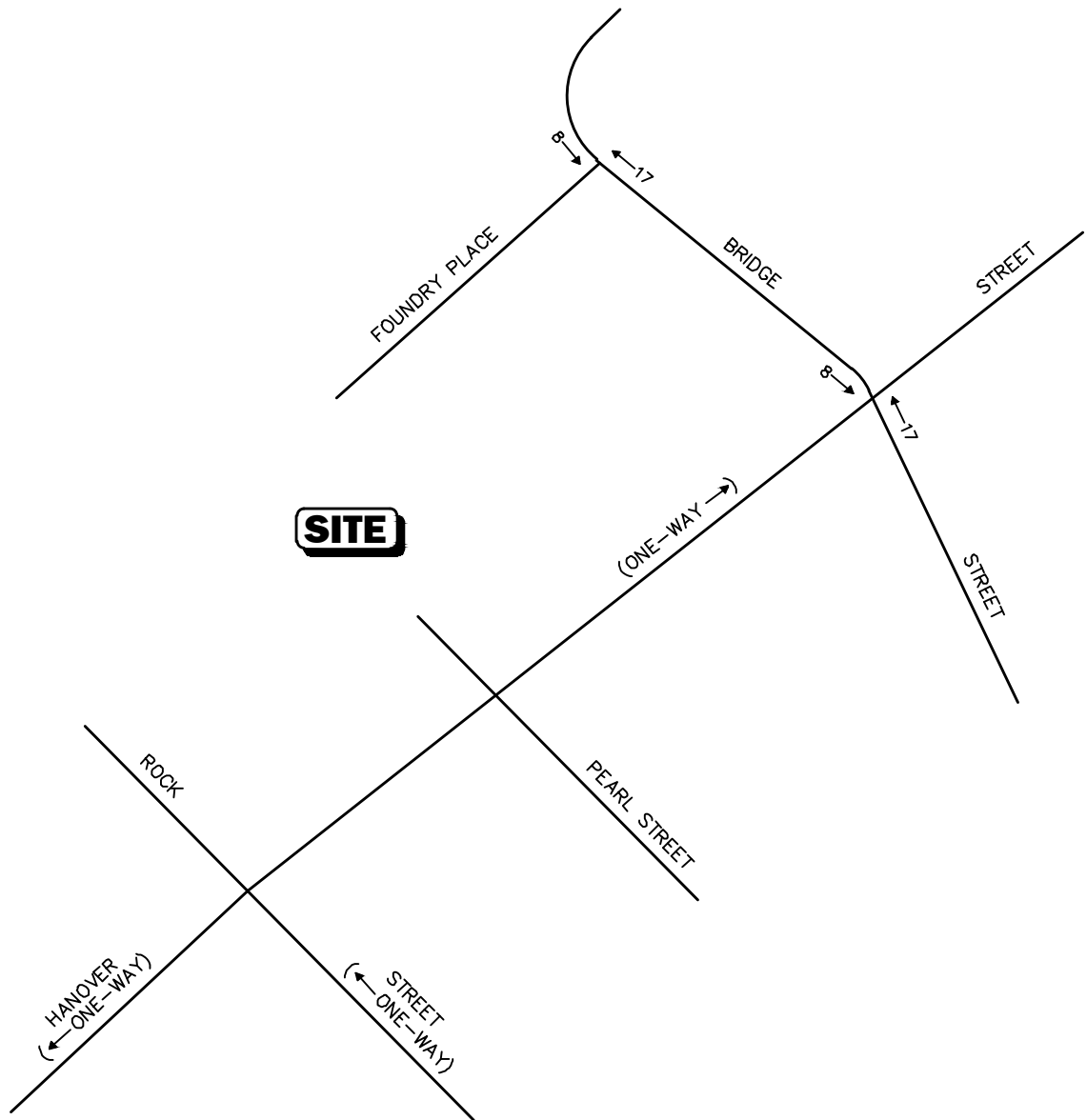


Not To Scale



Figure A-6

165 Deer Street
Lot 3 of Deer Street
Associates Projects
Weekday Evening
Peak-Hour Traffic Volumes

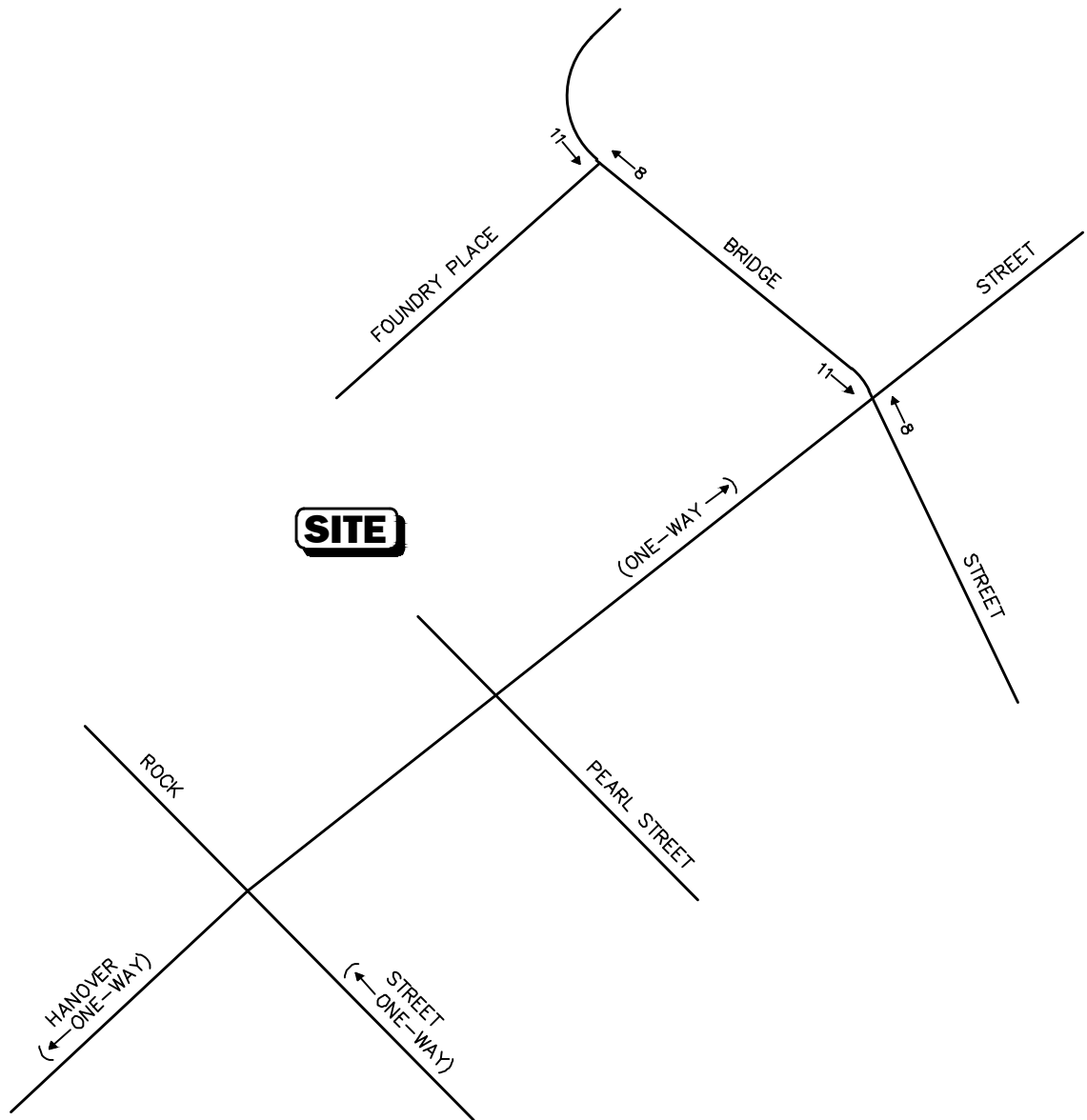


Not To Scale



Figure A-7

163 Deer Street
Lot 4 of Deer Street
Associates Projects
Weekday Morning
Peak-Hour Traffic Volumes

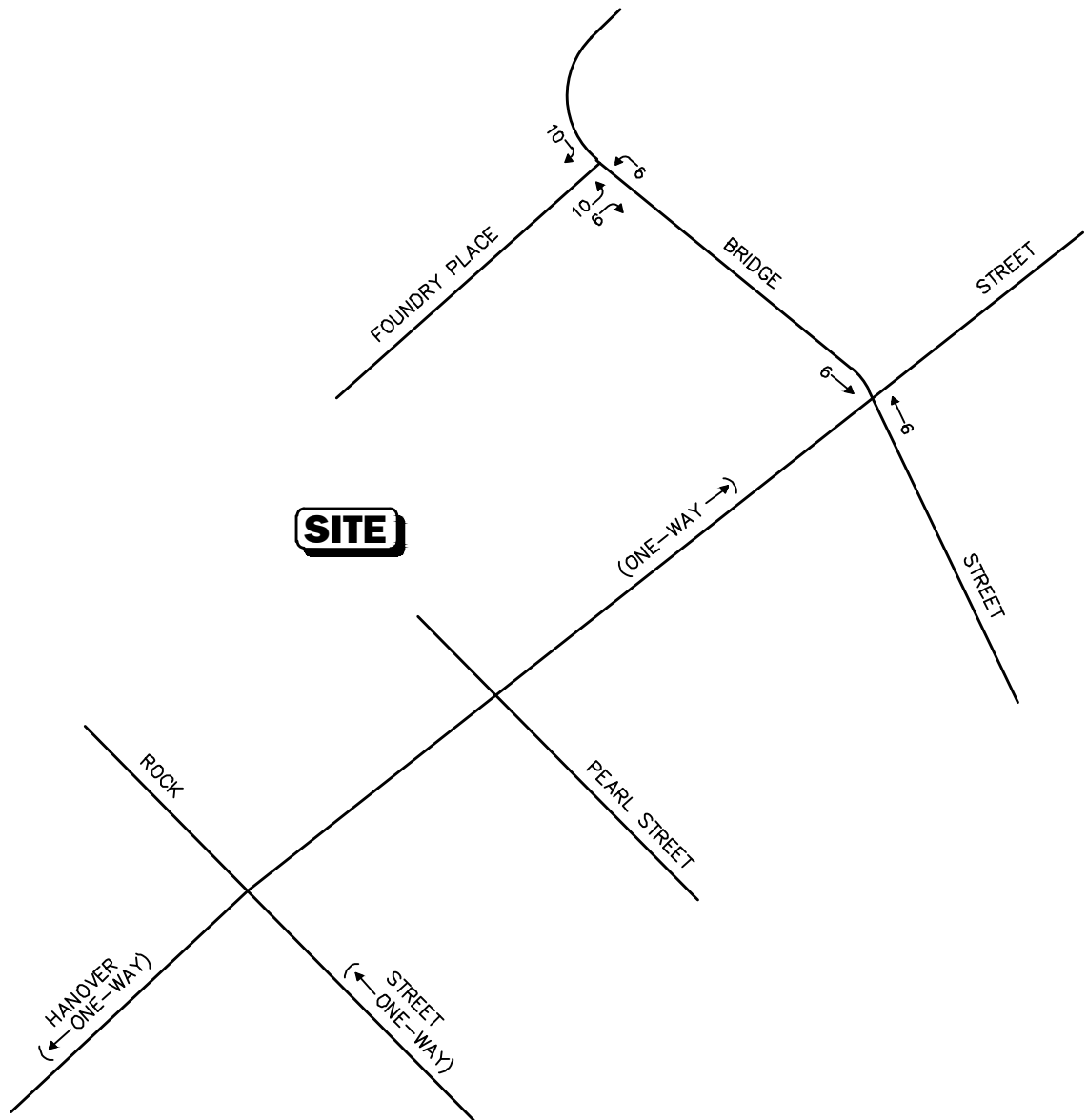


Not To Scale



Figure A-8

163 Deer Street
Lot 4 of Deer Street
Associates Projects
Weekday Evening
Peak-Hour Traffic Volumes

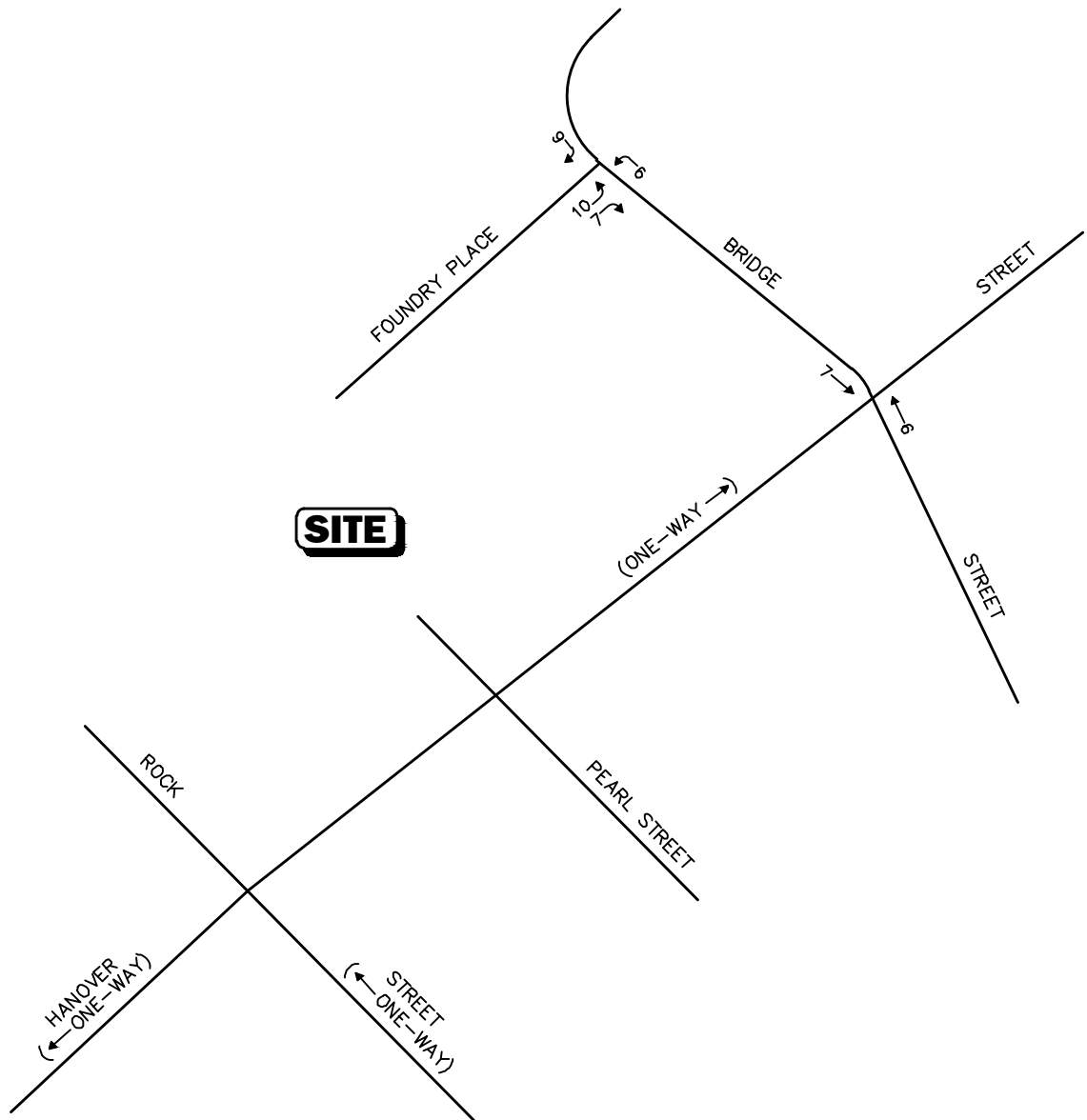


Not To Scale



Figure A-9

89 and 99 Foundry Place
Lot 6 of Deer Street
Associates Projects
Weekday Morning
Peak-Hour Traffic Volumes

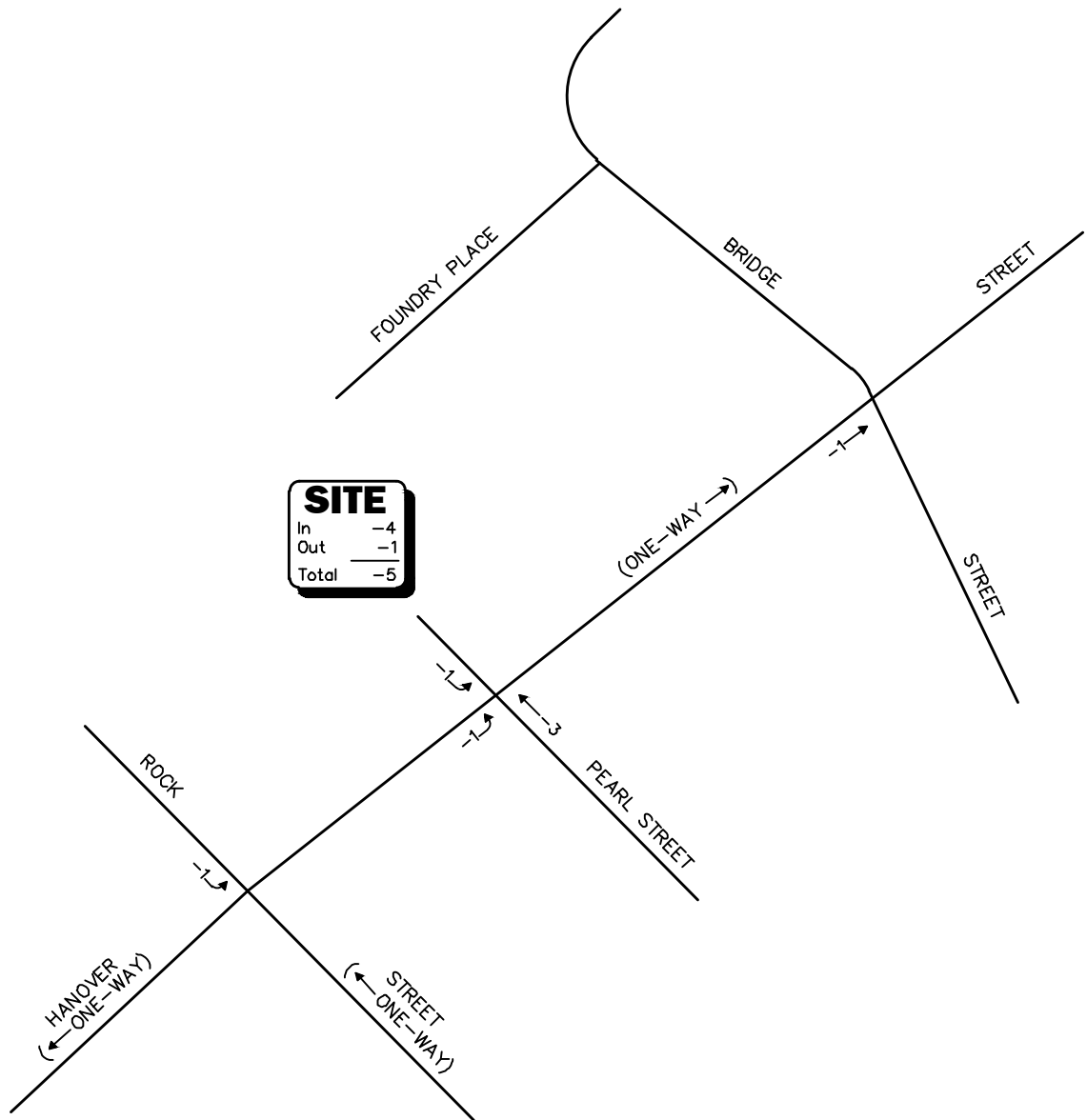


Not To Scale



Figure A-10

89 and 99 Foundry Place
Lot 6 of Deer Street
Associates Projects
Weekday Evening
Peak-Hour Traffic Volumes

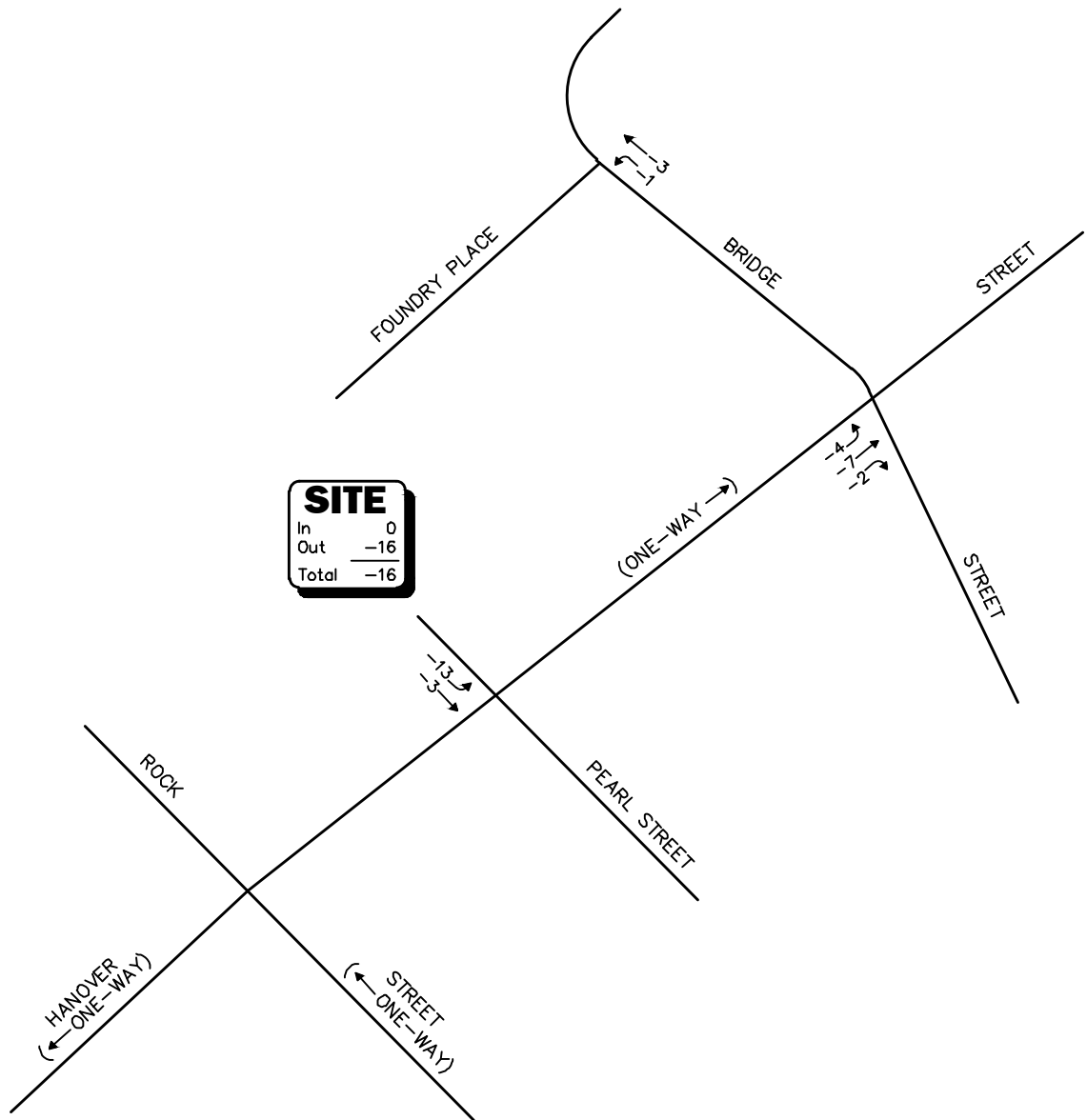


Not To Scale



Figure A-11

Existing Site Trips Removed
Weekday Morning
Peak-Hour Traffic Volumes



Not To Scale



Figure A-12

Existing Site Trips Removed
Weekday Evening
Peak-Hour Traffic Volumes

TRIP-DISTRIBUTION

Kearsarge Mill Residential Development
Portsmouth, New Hampshire

Residence	Workplace	Number	Hanover Street East	Bridge Street North	Bridge Street South	Pearl Street South (Exting Trip)				
Portsmouth city	Portsmouth city	6310	40%	2524	20%	1262	30%	1893	10%	631
Portsmouth city	Dover city	643	50%	322	50%	322		0		0
Portsmouth city	Durham town	470	50%	235	50%	235		0		0
Portsmouth city	Exeter town	437		0	70%	306		0	30%	131
Portsmouth city	Kittery town	379	70%	265		0		0	30%	114
Portsmouth city	Newington town	360	100%	360		0		0		0
Portsmouth city	Hampton town	354		0	60%	212		0	40%	142
Portsmouth city	Boston city	164		0	60%	98		0	40%	66
Portsmouth city	North Hampton town	162	100%	162		0		0		0
Portsmouth city	Salem town	159		0	70%	111		0	30%	48
Portsmouth city	York town	142	60%	85	40%	57		0		0
Portsmouth city	New Castle town	134	70%	94		0		0	30%	40
Portsmouth city	Manchester city	129		0	100%	129		0		0
Portsmouth city	Somersworth city	125	70%	88	30%	38		0		0
Portsmouth city	Rye town	123		0		0		0	100%	123
Portsmouth city	Stratham town	123	60%	74		0		0	40%	49
Portsmouth city	Greenland town	112	60%	67		0		0	40%	45
Portsmouth city	Londonderry town	92		0	60%	55		0	40%	37
Portsmouth city	Concord city	89		0	100%	89		0		0
Portsmouth city	Newburyport city	86		0	50%	43		0	50%	43
Portsmouth city	Seabrook town	85		0	50%	43		0	50%	43
Portsmouth city	Rochester city	80		0	100%	80		0		0
Portsmouth city	Peabody city	78		0	60%	47		0	40%	31
Portsmouth city	Brentwood town	77		0	60%	46		0	40%	31
Portsmouth city	Raymond town	75		0	100%	75		0		0
Portsmouth city	North Berwick town	72	70%	50	30%	22		0		0
Portsmouth city	Bedford town	69		0	100%	69		0		0
Portsmouth city	Barrington town	56	100%	56		0		0		0
Portsmouth city	Hampton Falls town	53	50%	27		0		0	50%	27
Portsmouth city	Plymouth town	51		0	100%	51		0		0
Portsmouth city	North Andover town	49	50%	25		0		0	50%	25
Portsmouth city	Wolfeboro town	49		0	100%	49		0		0
Portsmouth city	Eliot town	48	100%	48		0		0		0
Portsmouth city	Amesbury Town city	48	50%	24		0		0	50%	24
Portsmouth city	Andover town	41		0	100%	41		0		0
Portsmouth city	Methuen Town city	40	100%	40		0		0		0
Portsmouth city	Stoneham town	39	100%	39		0		0		0
Portsmouth city	Plaistow town	39	100%	39		0		0		0
		11,642		4,623		3,479		1,893		1,647
				39.7%		29.9%		16.3%		14.1%
		<u>SAY</u>		40%		30%		16%		14%

Kearsarge Mill Residential Development
Portsmouth, New Hampshire

Residence	Workplace	Number	Hanover Street East		Bridge Street North		Bridge Street South		Rock Street North	
Portsmouth city	Portsmouth city	6310	40%	2524	20%	1262	30%	1893	10%	631
Portsmouth city	Dover city	643	50%	322	50%	322		0		0
Portsmouth city	Durham town	470	50%	235	50%	235		0		0
Portsmouth city	Exeter town	437		0	70%	306		0	30%	131
Portsmouth city	Kittery town	379	70%	265		0		0	30%	114
Portsmouth city	Newington town	360	100%	360		0		0		0
Portsmouth city	Hampton town	354		0	60%	212		0	40%	142
Portsmouth city	Boston city	164		0	60%	98		0	40%	66
Portsmouth city	North Hampton town	162	100%	162		0		0		0
Portsmouth city	Salem town	159		0	70%	111		0	30%	48
Portsmouth city	York town	142	60%	85	40%	57		0		0
Portsmouth city	New Castle town	134	70%	94		0		0	30%	40
Portsmouth city	Manchester city	129		0	100%	129		0		0
Portsmouth city	Somersworth city	125	70%	88	30%	38		0		0
Portsmouth city	Rye town	123		0		0		0	100%	123
Portsmouth city	Stratham town	123	60%	74		0		0	40%	49
Portsmouth city	Greenland town	112	60%	67		0		0	40%	45
Portsmouth city	Londonderry town	92		0	60%	55		0	40%	37
Portsmouth city	Concord city	89		0	100%	89		0		0
Portsmouth city	Newburyport city	86		0	50%	43		0	50%	43
Portsmouth city	Seabrook town	85		0	50%	43		0	50%	43
Portsmouth city	Rochester city	80		0	100%	80		0		0
Portsmouth city	Peabody city	78		0	60%	47		0	40%	31
Portsmouth city	Brentwood town	77		0	60%	46		0	40%	31
Portsmouth city	Raymond town	75		0	100%	75		0		0
Portsmouth city	North Berwick town	72	70%	50	30%	22		0		0
Portsmouth city	Bedford town	69		0	100%	69		0		0
Portsmouth city	Barrington town	56	100%	56		0		0		0
Portsmouth city	Hampton Falls town	53	50%	27		0		0	50%	27
Portsmouth city	Plymouth town	51		0	100%	51		0		0
Portsmouth city	North Andover town	49	50%	25		0		0	50%	25

Kearsarge Mill Residential Development
Portsmouth, New Hampshire

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Portsmouth city	Eliot town	48	100%	48		0		0		0
Portsmouth city	Amesbury Town city	48	50%	24		0		0	50%	24
Portsmouth city	Andover town	41		0	100%	41		0		0
Portsmouth city	Methuen Town city	40	100%	40		0		0		0
Portsmouth city	Stoneham town	39	100%	39		0		0		0
Portsmouth city	Plaistow town	39	100%	39		0		0		0
		11,642		4,623		3,479		1,893		1,647
				39.7%		29.9%		16.3%		14.1%
		<u>SAY</u>		40%		30%		16%		14%

TRIP-GENERATION CALCULATIONS

Graph Look Up



ITETripGen Web-based App

- Graph Look Up
- How to Use ITETripGen
- TGM Desk Reference
- TGM Appendices
- Support Documents
- Add Users
- Comments

Query Filter

DATA SOURCE:
Trip Generation Manual, 11th Ed

SEARCH BY LAND USE CODE:
220

LAND USE GROUP:
(200-299) Residential

LAND USE :
220 - Multifamily Housing (Low-Rise)

LAND USE SUBCATEGORY:
Not Close to Rail Transit

SETTING/LOCATION:
General Urban/Suburban

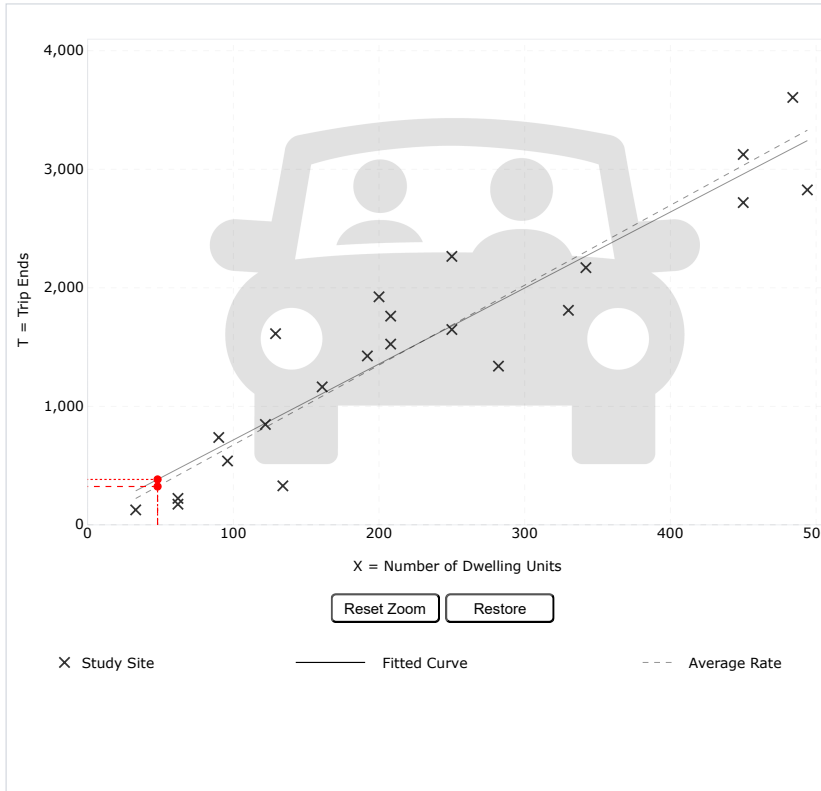
INDEPENDENT VARIABLE (IV):
Dwelling Units

TIME PERIOD:
Weekday

TRIP TYPE:
Vehicle

ENTER IV VALUE TO CALCULATE TRIPS:
48

Data Plot and Equation



Use the mouse wheel to Zoom Out or Zoom In.
 Hover the mouse pointer on data points to view X and T values.

DATA STATISTICS

Land Use:
 Multifamily Housing (Low-Rise) - Not Close to Rail Transit (220) [Click for Description and Data Plots](#)

Independent Variable:
 Dwelling Units

Time Period:
 Weekday

Setting/Location:
 General Urban/Suburban

Trip Type:
 Vehicle

Number of Studies:
 22

Avg. Num. of Dwelling Units:
 229

Average Rate:
 6.74

Range of Rates:
 2.46 - 12.50

Standard Deviation:
 1.79

Fitted Curve Equation:
 $T = 6.41(X) + 75.31$

R²:
 0.86

Directional Distribution:
 50% entering, 50% exiting

Calculated Trip Ends:
 Average Rate: 324 (Total), 162 (Entry), 162 (Exit)
 Fitted Curve: 383 (Total), 191 (Entry), 192 (Exit)

Add-ons to do more

Try OTISS Pro



Graph Look Up



ITETripGen Web-based App

- Graph Look Up
- How to Use ITETripGen
- TGM Desk Reference
- TGM Appendices
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- Comments

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LAND USE GROUP:
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LAND USE SUBCATEGORY:
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General Urban/Suburban

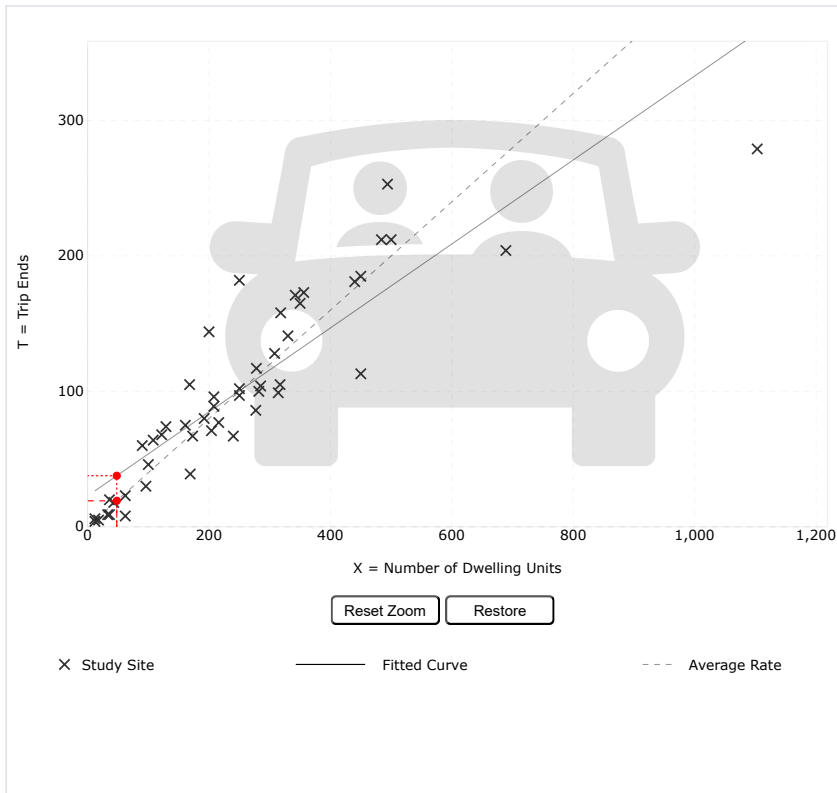
INDEPENDENT VARIABLE (IV):
Dwelling Units

TIME PERIOD:
Weekday, Peak Hour of Adjacent Street Traffic

TRIP TYPE:
Vehicle

ENTER IV VALUE TO CALCULATE TRIPS:
48 Calculate

Data Plot and Equation



Use the mouse wheel to Zoom Out or Zoom In.
 Hover the mouse pointer on data points to view X and T values.

DATA STATISTICS

Land Use:
 Multifamily Housing (Low-Rise) - Not Close to Rail Transit (220) [Click for Description and Data Plots](#)

Independent Variable:
 Dwelling Units

Time Period:
 Weekday
 Peak Hour of Adjacent Street Traffic
 One Hour Between 7 and 9 a.m.

Setting/Location:
 General Urban/Suburban

Trip Type:
 Vehicle

Number of Studies:
 49

Avg. Num. of Dwelling Units:
 249

Average Rate:
 0.40

Range of Rates:
 0.13 - 0.73

Standard Deviation:
 0.12

Fitted Curve Equation:
 $T = 0.31(X) + 22.85$

R²:
 0.79

Directional Distribution:
 24% entering, 76% exiting

Calculated Trip Ends:
 Average Rate: 19 (Total), 5 (Entry), 14 (Exit)
 Fitted Curve: 38 (Total), 9 (Entry), 29 (Exit)

Add-ons to do more

Try OTISS Pro



Graph Look Up



ITETripGen Web-based App

- Graph Look Up
- How to Use ITETripGen
- TGM Desk Reference
- TGM Appendices
- Support Documents
- Add Users
- Comments

Query Filter

DATA SOURCE:
Trip Generation Manual, 11th Ed

SEARCH BY LAND USE CODE:
220

LAND USE GROUP:
(200-299) Residential

LAND USE:
220 - Multifamily Housing (Low-Rise)

LAND USE SUBCATEGORY:
Not Close to Rail Transit

SETTING/LOCATION:
General Urban/Suburban

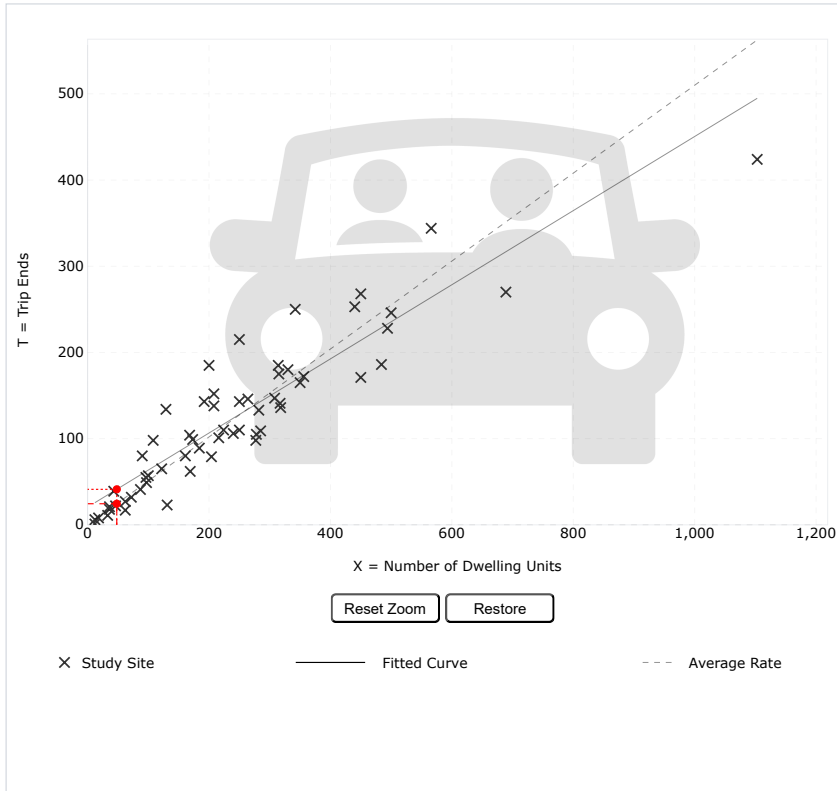
INDEPENDENT VARIABLE (IV):
Dwelling Units

TIME PERIOD:
Weekday, Peak Hour of Adjacent Street Traffic

TRIP TYPE:
Vehicle

ENTER IV VALUE TO CALCULATE TRIPS:
48 Calculate

Data Plot and Equation



Use the mouse wheel to Zoom Out or Zoom In.
 Hover the mouse pointer on data points to view X and T values.

DATA STATISTICS

Land Use:
 Multifamily Housing (Low-Rise) - Not Close to Rail Transit (220) [Click for Description and Data Plots](#)

Independent Variable:
 Dwelling Units

Time Period:
 Weekday
 Peak Hour of Adjacent Street Traffic
 One Hour Between 4 and 6 p.m.

Setting/Location:
 General Urban/Suburban

Trip Type:
 Vehicle

Number of Studies:
 59

Avg. Num. of Dwelling Units:
 241

Average Rate:
 0.51

Range of Rates:
 0.08 - 1.04

Standard Deviation:
 0.15

Fitted Curve Equation:
 $T = 0.43(X) + 20.55$

R²:
 0.84

Directional Distribution:
 63% entering, 37% exiting

Calculated Trip Ends:
 Average Rate: 24 (Total), 15 (Entry), 9 (Exit)
 Fitted Curve: 41 (Total), 26 (Entry), 15 (Exit)

Add-ons to do more

Try OTISS Pro



CAPACITY ANALYSIS WORKSHEETS

2024 Existing

2025 No-Build

2025 Opening Year Build

2035 No-Build

2035 Build

2024 Existing

Intersection	
Intersection Delay, s/veh	7.1
Intersection LOS	A

Movement	SEL	SET	SER	NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations												
Traffic Vol, veh/h	36	0	0	6	0	16	0	0	0	0	2	0
Future Vol, veh/h	36	0	0	6	0	16	0	0	0	0	2	0
Peak Hour Factor	0.92	0.73	0.92	0.92	0.88	0.92	0.92	0.92	0.92	0.92	0.25	0.92
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	39	0	0	7	0	17	0	0	0	0	8	0
Number of Lanes	0	1	0	0	1	0	0	0	0	0	1	0

Approach	SE	NW	SW
Opposing Approach	NW	SE	
Opposing Lanes	1	1	0
Conflicting Approach Left	SW		NW
Conflicting Lanes Left	1	0	1
Conflicting Approach Right		SW	SE
Conflicting Lanes Right	0	1	1
HCM Control Delay, s/veh	7.3	6.7	7.1
HCM LOS	A	A	A

Lane	NWLn1	SELn1	SWLn1
Vol Left, %	27%	100%	0%
Vol Thru, %	0%	0%	100%
Vol Right, %	73%	0%	0%
Sign Control	Stop	Stop	Stop
Traffic Vol by Lane	22	36	2
LT Vol	6	36	0
Through Vol	0	0	2
RT Vol	16	0	0
Lane Flow Rate	24	39	8
Geometry Grp	1	1	1
Degree of Util (X)	0.024	0.045	0.009
Departure Headway (Hd)	3.561	4.131	4.009
Convergence, Y/N	Yes	Yes	Yes
Cap	1008	871	893
Service Time	1.573	2.138	2.034
HCM Lane V/C Ratio	0.024	0.045	0.009
HCM Control Delay, s/veh	6.7	7.3	7.1
HCM Lane LOS	A	A	A
HCM 95th-tile Q	0.1	0.1	0

2024 Existing Weekday Morning
8: Hanover St. & Pearl St./Private Driveway

08/23/2024

Intersection												
Int Delay, s/veh	2.2											
Movement	SEL	SET	SER	NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	0	0	1	1	3	14	1	40	11	1	1	0
Future Vol, veh/h	0	0	1	1	3	14	1	40	11	1	1	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	25	92	92	85	92	92	77	92	92	50	92
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	0	0	1	1	4	15	1	52	12	1	2	0

Major/Minor	Minor2		Minor1		Major1			Major2				
Conflicting Flow All	60	70	2	64	64	58	2	0	0	64	0	0
Stage 1	4	4	-	60	60	-	-	-	-	-	-	-
Stage 2	56	66	-	4	4	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.1	6.5	6.2	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	941	824	1088	935	830	1014	1634	-	-	1551	-	-
Stage 1	1023	896	-	956	849	-	-	-	-	-	-	-
Stage 2	961	844	-	1023	896	-	-	-	-	-	-	-
Platoon blocked, %								-	-	-	-	-
Mov Cap-1 Maneuver	921	823	1088	932	829	1014	1634	-	-	1551	-	-
Mov Cap-2 Maneuver	921	823	-	932	829	-	-	-	-	-	-	-
Stage 1	1023	896	-	956	848	-	-	-	-	-	-	-
Stage 2	942	843	-	1022	896	-	-	-	-	-	-	-

Approach	SE	NW	NE	SW
HCM Control Delay, s/v	8.31	8.79	0.12	2.58
HCM LOS	A	A		

Minor Lane/Major Mvmt	NEL	NET	NERNWLn1	SELn1	SWL	SWT	SWR
Capacity (veh/h)	29	-	-	971	1088	634	-
HCM Lane V/C Ratio	0.001	-	-	0.02	0.001	0.001	-
HCM Control Delay (s/veh)	7.2	0	-	8.8	8.3	7.3	0
HCM Lane LOS	A	A	-	A	A	A	-
HCM 95th %tile Q(veh)	0	-	-	0.1	0	0	-

Intersection	
Intersection Delay, s/veh	7.4
Intersection LOS	A

Movement	SEL	SET	SER	NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations		↕			↔			↕			↕	
Traffic Vol, veh/h	11	14	0	0	16	66	19	36	3	26	0	28
Future Vol, veh/h	11	14	0	0	16	66	19	36	3	26	0	28
Peak Hour Factor	0.75	0.75	0.75	0.72	0.72	0.72	0.88	0.88	0.88	0.93	0.93	0.93
Heavy Vehicles, %	0	0	0	0	0	5	0	0	33	0	0	4
Mvmt Flow	15	19	0	0	22	92	22	41	3	28	0	30
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	SE	NW	NE	SW
Opposing Approach	NW	SE	SW	NE
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SW	NE	SE	NW
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NE	SW	NW	SE
Conflicting Lanes Right	1	1	1	1
HCM Control Delay, s/veh	7.5	7.2	7.7	7.3
HCM LOS	A	A	A	A

Lane	NELn1	NWLn1	SELn1	SWLn1
Vol Left, %	33%	0%	44%	48%
Vol Thru, %	62%	20%	56%	0%
Vol Right, %	5%	80%	0%	52%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	58	82	25	54
LT Vol	19	0	11	26
Through Vol	36	16	14	0
RT Vol	3	66	0	28
Lane Flow Rate	66	114	33	58
Geometry Grp	1	1	1	1
Degree of Util (X)	0.078	0.116	0.04	0.064
Departure Headway (Hd)	4.236	3.658	4.293	3.992
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	839	968	825	888
Service Time	2.295	1.727	2.367	2.058
HCM Lane V/C Ratio	0.079	0.118	0.04	0.065
HCM Control Delay, s/veh	7.7	7.2	7.5	7.3
HCM Lane LOS	A	A	A	A
HCM 95th-tile Q	0.3	0.4	0.1	0.2

Intersection						
Int Delay, s/veh	2.1					
Movement	SET	SER	NWL	NWT	NEL	NER
Lane Configurations						
Traffic Vol, veh/h	25	121	25	36	17	5
Future Vol, veh/h	25	121	25	36	17	5
Conflicting Peds, #/hr	0	0	25	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	81	81	87	87	58	58
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	31	149	29	41	29	9

Major/Minor	Major1	Major2	Minor1			
Conflicting Flow All	0	0	205	0	229	131
Stage 1	-	-	-	-	131	-
Stage 2	-	-	-	-	99	-
Critical Hdwy	-	-	4.1	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	-	-	2.2	-	3.5	3.3
Pot Cap-1 Maneuver	-	-	1378	-	763	924
Stage 1	-	-	-	-	900	-
Stage 2	-	-	-	-	930	-
Platoon blocked, %	-	-	-	-	-	-
Mov Cap-1 Maneuver	-	-	1345	-	729	902
Mov Cap-2 Maneuver	-	-	-	-	729	-
Stage 1	-	-	-	-	879	-
Stage 2	-	-	-	-	910	-

Approach	SE	NW	NE
HCM Control Delay, s/v	0	3.17	9.97
HCM LOS			A

Minor Lane/Major Mvmt	NELn1	NWL	NWT	SET	SER
Capacity (veh/h)	762	738	-	-	-
HCM Lane V/C Ratio	0.05	0.021	-	-	-
HCM Control Delay (s/veh)	10	7.7	0	-	-
HCM Lane LOS	A	A	A	-	-
HCM 95th %tile Q(veh)	0.2	0.1	-	-	-

2024 Existing Weekday Evening
5: Hanover St. & Rock St.

08/23/2024

Intersection	
Intersection Delay, s/veh	7.1
Intersection LOS	A

Movement	SEL	SET	SER	NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations												
Traffic Vol, veh/h	28	0	5	10	0	11	0	0	0	0	4	0
Future Vol, veh/h	28	0	5	10	0	11	0	0	0	0	4	0
Peak Hour Factor	0.75	0.75	0.75	0.58	0.58	0.58	0.92	0.92	0.92	0.38	0.38	0.38
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	37	0	7	17	0	19	0	0	0	0	11	0
Number of Lanes	0	1	0	0	1	0	0	0	0	0	1	0

Approach	SE	NW	SW
Opposing Approach	NW	SE	
Opposing Lanes	1	1	0
Conflicting Approach Left	SW		NW
Conflicting Lanes Left	1	0	1
Conflicting Approach Right		SW	SE
Conflicting Lanes Right	0	1	1
HCM Control Delay, s/veh	7.2	6.9	7.1
HCM LOS	A	A	A

Lane	NWLn1	SELn1	SWLn1
Vol Left, %	48%	85%	0%
Vol Thru, %	0%	0%	100%
Vol Right, %	52%	15%	0%
Sign Control	Stop	Stop	Stop
Traffic Vol by Lane	21	33	4
LT Vol	10	28	0
Through Vol	0	0	4
RT Vol	11	5	0
Lane Flow Rate	36	44	11
Geometry Grp	1	1	1
Degree of Util (X)	0.038	0.049	0.012
Departure Headway (Hd)	3.731	4.023	4.038
Convergence, Y/N	Yes	Yes	Yes
Cap	962	893	885
Service Time	1.746	2.034	2.069
HCM Lane V/C Ratio	0.037	0.049	0.012
HCM Control Delay, s/veh	6.9	7.2	7.1
HCM Lane LOS	A	A	A
HCM 95th-tile Q	0.1	0.2	0

2024 Existing Weekday Evening
8: Hanover St. & Pearl St./Private Driveway

08/23/2024

Intersection												
Int Delay, s/veh	5.1											
Movement	SEL	SET	SER	NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	0	3	13	3	0	26	0	33	5	0	1	0
Future Vol, veh/h	0	3	13	3	0	26	0	33	5	0	1	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	50	50	50	73	73	73	82	82	82	25	25	25
Heavy Vehicles, %	0	0	0	0	0	15	0	0	0	0	0	0
Mvmt Flow	0	6	26	4	0	36	0	40	6	0	4	0

Major/Minor	Minor2		Minor1		Major1			Major2				
Conflicting Flow All	44	50	4	50	47	43	4	0	0	46	0	0
Stage 1	4	4	-	43	43	-	-	-	-	-	-	-
Stage 2	40	46	-	7	4	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.1	6.5	6.35	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.435	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	963	845	1085	954	848	991	1631	-	-	1574	-	-
Stage 1	1024	897	-	976	863	-	-	-	-	-	-	-
Stage 2	980	860	-	1020	897	-	-	-	-	-	-	-
Platoon blocked, %								-	-	-	-	-
Mov Cap-1 Maneuver	928	845	1085	925	848	991	1631	-	-	1574	-	-
Mov Cap-2 Maneuver	928	845	-	925	848	-	-	-	-	-	-	-
Stage 1	1024	897	-	976	863	-	-	-	-	-	-	-
Stage 2	944	860	-	989	897	-	-	-	-	-	-	-

Approach	SE		NW		NE		SW	
HCM Control Delay, s/v	8.61		8.81		0		0	
HCM LOS	A		A					

Minor Lane/Major Mvmt	NEL	NET	NERNWLn1	SELn1	SWL	SWT	SWR
Capacity (veh/h)	1631	-	-	984	1030	1574	-
HCM Lane V/C Ratio	-	-	-	0.04	0.031	-	-
HCM Control Delay (s/veh)	0	-	-	8.8	8.6	0	-
HCM Lane LOS	A	-	-	A	A	A	-
HCM 95th %tile Q(veh)	0	-	-	0.1	0.1	0	-

Intersection	
Intersection Delay, s/veh	8.1
Intersection LOS	A

Movement	SEL	SET	SER	NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations		↕			↔			↕			↕	
Traffic Vol, veh/h	19	40	0	0	32	127	25	43	9	61	1	16
Future Vol, veh/h	19	40	0	0	32	127	25	43	9	61	1	16
Peak Hour Factor	0.78	0.78	0.78	0.90	0.90	0.90	0.92	0.92	0.92	0.77	0.77	0.77
Heavy Vehicles, %	0	0	0	0	0	2	0	0	22	0	0	4
Mvmt Flow	24	51	0	0	36	141	27	47	10	79	1	21
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	SE	NW	NE	SW
Opposing Approach	NW	SE	SW	NE
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SW	NE	SE	NW
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NE	SW	NW	SE
Conflicting Lanes Right	1	1	1	1
HCM Control Delay, s/veh	8.1	7.9	8.1	8.3
HCM LOS	A	A	A	A

Lane	NELn1	NWLn1	SELn1	SWLn1
Vol Left, %	32%	0%	32%	78%
Vol Thru, %	56%	20%	68%	1%
Vol Right, %	12%	80%	0%	21%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	77	159	59	78
LT Vol	25	0	19	61
Through Vol	43	32	40	1
RT Vol	9	127	0	16
Lane Flow Rate	84	177	76	101
Geometry Grp	1	1	1	1
Degree of Util (X)	0.106	0.194	0.096	0.129
Departure Headway (Hd)	4.551	3.944	4.578	4.568
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	788	912	784	785
Service Time	2.576	1.961	2.6	2.593
HCM Lane V/C Ratio	0.107	0.194	0.097	0.129
HCM Control Delay, s/veh	8.1	7.9	8.1	8.3
HCM Lane LOS	A	A	A	A
HCM 95th-tile Q	0.4	0.7	0.3	0.4

Intersection						
Int Delay, s/veh	5.8					
Movement	SET	SER	NWL	NWT	NEL	NER
Lane Configurations						
Traffic Vol, veh/h	48	23	12	52	79	29
Future Vol, veh/h	48	23	12	52	79	29
Conflicting Peds, #/hr	0	0	25	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	88	88	88	88	64	64
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	55	26	14	59	123	45

Major/Minor	Major1	Major2	Minor1		
Conflicting Flow All	0	0	106	0	179 93
Stage 1	-	-	-	-	93 -
Stage 2	-	-	-	-	86 -
Critical Hdwy	-	-	4.1	-	6.4 6.2
Critical Hdwy Stg 1	-	-	-	-	5.4 -
Critical Hdwy Stg 2	-	-	-	-	5.4 -
Follow-up Hdwy	-	-	2.2	-	3.5 3.3
Pot Cap-1 Maneuver	-	-	1498	-	815 970
Stage 1	-	-	-	-	936 -
Stage 2	-	-	-	-	942 -
Platoon blocked, %	-	-	-	-	-
Mov Cap-1 Maneuver	-	-	1462	-	788 947
Mov Cap-2 Maneuver	-	-	-	-	788 -
Stage 1	-	-	-	-	914 -
Stage 2	-	-	-	-	933 -

Approach	SE	NW	NE
HCM Control Delay, s/v	0	1.4	10.48
HCM LOS			B

Minor Lane/Major Mvmt	NELn1	NWL	NWT	SET	SER
Capacity (veh/h)	825	338	-	-	-
HCM Lane V/C Ratio	0.204	0.009	-	-	-
HCM Control Delay (s/veh)	10.5	7.5	0	-	-
HCM Lane LOS	B	A	A	-	-
HCM 95th %tile Q(veh)	0.8	0	-	-	-

2025 No-Build

Intersection	
Intersection Delay, s/veh	7.1
Intersection LOS	A

Movement	SEL	SET	SER	NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations												
Traffic Vol, veh/h	36	0	0	6	0	16	0	0	0	0	2	0
Future Vol, veh/h	36	0	0	6	0	16	0	0	0	0	2	0
Peak Hour Factor	0.92	0.73	0.92	0.92	0.88	0.92	0.92	0.92	0.92	0.92	0.25	0.92
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	39	0	0	7	0	17	0	0	0	0	8	0
Number of Lanes	0	1	0	0	1	0	0	0	0	0	1	0

Approach	SE	NW	SW
Opposing Approach	NW	SE	
Opposing Lanes	1	1	0
Conflicting Approach Left	SW		NW
Conflicting Lanes Left	1	0	1
Conflicting Approach Right		SW	SE
Conflicting Lanes Right	0	1	1
HCM Control Delay, s/veh	7.3	6.7	7.1
HCM LOS	A	A	A

Lane	NWLn1	SELn1	SWLn1
Vol Left, %	27%	100%	0%
Vol Thru, %	0%	0%	100%
Vol Right, %	73%	0%	0%
Sign Control	Stop	Stop	Stop
Traffic Vol by Lane	22	36	2
LT Vol	6	36	0
Through Vol	0	0	2
RT Vol	16	0	0
Lane Flow Rate	24	39	8
Geometry Grp	1	1	1
Degree of Util (X)	0.024	0.045	0.009
Departure Headway (Hd)	3.561	4.131	4.009
Convergence, Y/N	Yes	Yes	Yes
Cap	1008	871	893
Service Time	1.573	2.138	2.034
HCM Lane V/C Ratio	0.024	0.045	0.009
HCM Control Delay, s/veh	6.7	7.3	7.1
HCM Lane LOS	A	A	A
HCM 95th-tile Q	0.1	0.1	0

Intersection												
Int Delay, s/veh	2.2											
Movement	SEL	SET	SER	NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	0	0	1	1	3	14	1	40	11	1	1	0
Future Vol, veh/h	0	0	1	1	3	14	1	40	11	1	1	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	25	92	92	85	92	92	77	92	92	50	92
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	0	0	1	1	4	15	1	52	12	1	2	0

Major/Minor	Minor2		Minor1		Major1			Major2				
Conflicting Flow All	60	70	2	64	64	58	2	0	0	64	0	0
Stage 1	4	4	-	60	60	-	-	-	-	-	-	-
Stage 2	56	66	-	4	4	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.1	6.5	6.2	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	941	824	1088	935	830	1014	1634	-	-	1551	-	-
Stage 1	1023	896	-	956	849	-	-	-	-	-	-	-
Stage 2	961	844	-	1023	896	-	-	-	-	-	-	-
Platoon blocked, %								-	-	-	-	-
Mov Cap-1 Maneuver	921	823	1088	932	829	1014	1634	-	-	1551	-	-
Mov Cap-2 Maneuver	921	823	-	932	829	-	-	-	-	-	-	-
Stage 1	1023	896	-	956	848	-	-	-	-	-	-	-
Stage 2	942	843	-	1022	896	-	-	-	-	-	-	-

Approach	SE		NW		NE		SW	
HCM Control Delay, s/v	8.31		8.79		0.12		2.58	
HCM LOS	A		A					

Minor Lane/Major Mvmt	NEL	NET	NERNWLn1	SELn1	SWL	SWT	SWR
Capacity (veh/h)	29	-	-	971	1088	634	-
HCM Lane V/C Ratio	0.001	-	-	0.02	0.001	0.001	-
HCM Control Delay (s/veh)	7.2	0	-	8.8	8.3	7.3	0
HCM Lane LOS	A	A	-	A	A	A	A
HCM 95th %tile Q(veh)	0	-	-	0.1	0	0	-

Intersection	
Intersection Delay, s/veh	7.9
Intersection LOS	A

Movement	SEL	SET	SER	NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations		↕			↔			↕			↕	
Traffic Vol, veh/h	11	46	0	0	64	66	19	36	3	26	0	28
Future Vol, veh/h	11	46	0	0	64	66	19	36	3	26	0	28
Peak Hour Factor	0.75	0.75	0.75	0.72	0.72	0.72	0.88	0.88	0.88	0.93	0.93	0.93
Heavy Vehicles, %	0	0	0	0	0	5	0	0	33	0	0	4
Mvmt Flow	15	61	0	0	89	92	22	41	3	28	0	30
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	SE	NW	NE	SW
Opposing Approach	NW	SE	SW	NE
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SW	NE	SE	NW
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NE	SW	NW	SE
Conflicting Lanes Right	1	1	1	1
HCM Control Delay, s/veh	7.9	8	8	7.6
HCM LOS	A	A	A	A

Lane	NELn1	NWLn1	SELn1	SWLn1
Vol Left, %	33%	0%	19%	48%
Vol Thru, %	62%	49%	81%	0%
Vol Right, %	5%	51%	0%	52%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	58	130	57	54
LT Vol	19	0	11	26
Through Vol	36	64	46	0
RT Vol	3	66	0	28
Lane Flow Rate	66	181	76	58
Geometry Grp	1	1	1	1
Degree of Util (X)	0.083	0.199	0.093	0.069
Departure Headway (Hd)	4.546	3.972	4.4	4.309
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	790	908	817	833
Service Time	2.562	1.972	2.413	2.325
HCM Lane V/C Ratio	0.084	0.199	0.093	0.07
HCM Control Delay, s/veh	8	8	7.9	7.6
HCM Lane LOS	A	A	A	A
HCM 95th-tile Q	0.3	0.7	0.3	0.2

Intersection						
Int Delay, s/veh	3.6					
Movement	SET	SER	NWL	NWT	NEL	NER
Lane Configurations						
Traffic Vol, veh/h	40	160	49	60	45	22
Future Vol, veh/h	40	160	49	60	45	22
Conflicting Peds, #/hr	0	0	25	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	81	81	87	87	58	58
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	49	198	56	69	78	38

Major/Minor	Major1	Major2	Minor1		
Conflicting Flow All	0	0	272	0	355 173
Stage 1	-	-	-	-	173 -
Stage 2	-	-	-	-	182 -
Critical Hdwy	-	-	4.1	-	6.4 6.2
Critical Hdwy Stg 1	-	-	-	-	5.4 -
Critical Hdwy Stg 2	-	-	-	-	5.4 -
Follow-up Hdwy	-	-	2.2	-	3.5 3.3
Pot Cap-1 Maneuver	-	-	1303	-	647 876
Stage 1	-	-	-	-	862 -
Stage 2	-	-	-	-	854 -
Platoon blocked, %	-	-	-	-	-
Mov Cap-1 Maneuver	-	-	1272	-	603 855
Mov Cap-2 Maneuver	-	-	-	-	603 -
Stage 1	-	-	-	-	841 -
Stage 2	-	-	-	-	815 -

Approach	SE	NW	NE
HCM Control Delay, s/v	0	3.58	11.52
HCM LOS			B

Minor Lane/Major Mvmt	NELn1	NWL	NWT	SET	SER
Capacity (veh/h)	667	809	-	-	-
HCM Lane V/C Ratio	0.173	0.044	-	-	-
HCM Control Delay (s/veh)	11.5	8	0	-	-
HCM Lane LOS	B	A	A	-	-
HCM 95th %tile Q(veh)	0.6	0.1	-	-	-

Intersection	
Intersection Delay, s/veh	7.1
Intersection LOS	A

Movement	SEL	SET	SER	NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations												
Traffic Vol, veh/h	28	0	5	11	0	10	0	0	0	0	4	0
Future Vol, veh/h	28	0	5	11	0	10	0	0	0	0	4	0
Peak Hour Factor	0.75	0.75	0.75	0.58	0.58	0.58	0.92	0.92	0.92	0.38	0.38	0.38
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	37	0	7	19	0	17	0	0	0	0	11	0
Number of Lanes	0	1	0	0	1	0	0	0	0	0	1	0

Approach	SE	NW	SW
Opposing Approach	NW	SE	
Opposing Lanes	1	1	0
Conflicting Approach Left	SW		NW
Conflicting Lanes Left	1	0	1
Conflicting Approach Right		SW	SE
Conflicting Lanes Right	0	1	1
HCM Control Delay, s/veh	7.2	6.9	7.1
HCM LOS	A	A	A

Lane	NWLn1	SELn1	SWLn1
Vol Left, %	52%	85%	0%
Vol Thru, %	0%	0%	100%
Vol Right, %	48%	15%	0%
Sign Control	Stop	Stop	Stop
Traffic Vol by Lane	21	33	4
LT Vol	11	28	0
Through Vol	0	0	4
RT Vol	10	5	0
Lane Flow Rate	36	44	11
Geometry Grp	1	1	1
Degree of Util (X)	0.038	0.049	0.012
Departure Headway (Hd)	3.769	4.023	4.038
Convergence, Y/N	Yes	Yes	Yes
Cap	952	893	885
Service Time	1.784	2.034	2.069
HCM Lane V/C Ratio	0.038	0.049	0.012
HCM Control Delay, s/veh	6.9	7.2	7.1
HCM Lane LOS	A	A	A
HCM 95th-tile Q	0.1	0.2	0

2025 No-Build weekday Evening
 8: Hanover St. & Pearl St./Private Driveway

08/23/2024

Intersection												
Int Delay, s/veh	5.2											
Movement	SEL	SET	SER	NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	13	3	0	3	0	26	0	33	5	0	1	0
Future Vol, veh/h	13	3	0	3	0	26	0	33	5	0	1	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	50	50	50	73	73	73	82	82	82	25	25	25
Heavy Vehicles, %	0	0	0	0	0	15	0	0	0	0	0	0
Mvmt Flow	26	6	0	4	0	36	0	40	6	0	4	0

Major/Minor	Minor2		Minor1		Major1			Major2				
Conflicting Flow All	44	50	4	50	47	43	4	0	0	46	0	0
Stage 1	4	4	-	43	43	-	-	-	-	-	-	-
Stage 2	40	46	-	7	4	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.1	6.5	6.35	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.435	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	963	845	1085	954	848	991	1631	-	-	1574	-	-
Stage 1	1024	897	-	976	863	-	-	-	-	-	-	-
Stage 2	980	860	-	1020	897	-	-	-	-	-	-	-
Platoon blocked, %								-	-	-	-	-
Mov Cap-1 Maneuver	928	845	1085	948	848	991	1631	-	-	1574	-	-
Mov Cap-2 Maneuver	928	845	-	948	848	-	-	-	-	-	-	-
Stage 1	1024	897	-	976	863	-	-	-	-	-	-	-
Stage 2	944	860	-	1013	897	-	-	-	-	-	-	-

Approach	SE	NW	NE	SW
HCM Control Delay, s/v	9.09	8.8	0	0
HCM LOS	A	A		

Minor Lane/Major Mvmt	NEL	NET	NERNWLn1	SELn1	SWL	SWT	SWR
Capacity (veh/h)	1631	-	-	986	912	1574	-
HCM Lane V/C Ratio	-	-	-	0.04	0.035	-	-
HCM Control Delay (s/veh)	0	-	-	8.8	9.1	0	-
HCM Lane LOS	A	-	-	A	A	A	-
HCM 95th %tile Q(veh)	0	-	-	0.1	0.1	0	-

Intersection	
Intersection Delay, s/veh	8.5
Intersection LOS	A

Movement	SEL	SET	SER	NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations		↕			↔			↕			↕	
Traffic Vol, veh/h	19	81	0	0	69	128	25	43	9	62	1	16
Future Vol, veh/h	19	81	0	0	69	128	25	43	9	62	1	16
Peak Hour Factor	0.78	0.78	0.78	0.90	0.90	0.90	0.92	0.92	0.92	0.77	0.77	0.77
Heavy Vehicles, %	0	0	0	0	0	2	0	0	22	0	0	4
Mvmt Flow	24	104	0	0	77	142	27	47	10	81	1	21
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	SE	NW	NE	SW
Opposing Approach	NW	SE	SW	NE
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SW	NE	SE	NW
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NE	SW	NW	SE
Conflicting Lanes Right	1	1	1	1
HCM Control Delay, s/veh	8.6	8.5	8.4	8.6
HCM LOS	A	A	A	A

Lane	NELn1	NWLn1	SELn1	SWLn1
Vol Left, %	32%	0%	19%	78%
Vol Thru, %	56%	35%	81%	1%
Vol Right, %	12%	65%	0%	20%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	77	197	100	79
LT Vol	25	0	19	62
Through Vol	43	69	81	1
RT Vol	9	128	0	16
Lane Flow Rate	84	219	128	103
Geometry Grp	1	1	1	1
Degree of Util (X)	0.111	0.25	0.165	0.137
Departure Headway (Hd)	4.783	4.113	4.62	4.798
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	747	873	776	746
Service Time	2.824	2.141	2.653	2.838
HCM Lane V/C Ratio	0.112	0.251	0.165	0.138
HCM Control Delay, s/veh	8.4	8.5	8.6	8.6
HCM Lane LOS	A	A	A	A
HCM 95th-tile Q	0.4	1	0.6	0.5

Intersection						
Int Delay, s/veh	6.9					
Movement	SET	SER	NWL	NWT	NEL	NER
Lane Configurations						
Traffic Vol, veh/h	66	54	32	70	113	52
Future Vol, veh/h	66	54	32	70	113	52
Conflicting Peds, #/hr	0	0	25	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	88	88	88	88	64	64
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	75	61	36	80	177	81

Major/Minor	Major1	Major2	Minor1		
Conflicting Flow All	0	0	161	0	283
Stage 1	-	-	-	-	131
Stage 2	-	-	-	-	152
Critical Hdwy	-	-	4.1	-	6.4
Critical Hdwy Stg 1	-	-	-	-	5.4
Critical Hdwy Stg 2	-	-	-	-	5.4
Follow-up Hdwy	-	-	2.2	-	3.5
Pot Cap-1 Maneuver	-	-	1430	-	711
Stage 1	-	-	-	-	900
Stage 2	-	-	-	-	881
Platoon blocked, %	-	-	-	-	-
Mov Cap-1 Maneuver	-	-	1396	-	676
Mov Cap-2 Maneuver	-	-	-	-	676
Stage 1	-	-	-	-	879
Stage 2	-	-	-	-	857

Approach	SE	NW	NE
HCM Control Delay, s/v	0	2.4	12.54
HCM LOS			B

Minor Lane/Major Mvmt	NELn1	NWL	NWT	SET	SER
Capacity (veh/h)	734	565	-	-	-
HCM Lane V/C Ratio	0.351	0.026	-	-	-
HCM Control Delay (s/veh)	12.5	7.6	0	-	-
HCM Lane LOS	B	A	A	-	-
HCM 95th %tile Q(veh)	1.6	0.1	-	-	-

2025 Opening Year Build

Intersection	
Intersection Delay, s/veh	7.1
Intersection LOS	A

Movement	SEL	SET	SER	NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations												
Traffic Vol, veh/h	35	0	0	6	0	17	0	0	0	0	6	0
Future Vol, veh/h	35	0	0	6	0	17	0	0	0	0	6	0
Peak Hour Factor	0.92	0.73	0.92	0.92	0.88	0.92	0.92	0.92	0.92	0.92	0.25	0.92
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	38	0	0	7	0	18	0	0	0	0	24	0
Number of Lanes	0	1	0	0	1	0	0	0	0	0	1	0

Approach	SE	NW	SW
Opposing Approach	NW	SE	
Opposing Lanes	1	1	0
Conflicting Approach Left	SW		NW
Conflicting Lanes Left	1	0	1
Conflicting Approach Right		SW	SE
Conflicting Lanes Right	0	1	1
HCM Control Delay, s/veh	7.4	6.7	7.1
HCM LOS	A	A	A

Lane	NWLn1	SELn1	SWLn1
Vol Left, %	26%	100%	0%
Vol Thru, %	0%	0%	100%
Vol Right, %	74%	0%	0%
Sign Control	Stop	Stop	Stop
Traffic Vol by Lane	23	35	6
LT Vol	6	35	0
Through Vol	0	0	6
RT Vol	17	0	0
Lane Flow Rate	25	38	24
Geometry Grp	1	1	1
Degree of Util (X)	0.025	0.044	0.027
Departure Headway (Hd)	3.578	4.16	4.009
Convergence, Y/N	Yes	Yes	Yes
Cap	1001	863	893
Service Time	1.599	2.174	2.034
HCM Lane V/C Ratio	0.025	0.044	0.027
HCM Control Delay, s/veh	6.7	7.4	7.1
HCM Lane LOS	A	A	A
HCM 95th-tile Q	0.1	0.1	0.1

Intersection						
Int Delay, s/veh	1.9					
Movement	NWL	NWR	NET	NER	SWL	SWT
Lane Configurations						
Traffic Vol, veh/h	9	14	60	16	1	1
Future Vol, veh/h	9	14	60	16	1	1
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	77	92	92	50
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	10	15	78	17	1	2

Major/Minor	Minor1	Major1	Major2			
Conflicting Flow All	91	87	0	0	95	0
Stage 1	87	-	-	-	-	-
Stage 2	4	-	-	-	-	-
Critical Hdwy	6.4	6.2	-	-	4.1	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	914	978	-	-	1511	-
Stage 1	942	-	-	-	-	-
Stage 2	1024	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	914	978	-	-	1511	-
Mov Cap-2 Maneuver	914	-	-	-	-	-
Stage 1	942	-	-	-	-	-
Stage 2	1023	-	-	-	-	-

Approach	NW	NE	SW
HCM Ctrl Dly, s/v	8.89	0	2.6
HCM LOS	A		

Minor Lane/Major Mvmt	NET	NER	NWLn1	SWL	SWT
Capacity (veh/h)	-	-	952	634	-
HCM Lane V/C Ratio	-	-	0.026	0.001	-
HCM Ctrl Dly (s/v)	-	-	8.9	7.4	0
HCM Lane LOS	-	-	A	A	A
HCM 95th %tile Q(veh)	-	-	0.1	0	-

Intersection						
Int Delay, s/veh	2.9					
Movement	SEL	SER	NEL	NET	SWT	SWR
Lane Configurations						
Traffic Vol, veh/h	25	4	1	51	2	8
Future Vol, veh/h	25	4	1	51	2	8
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	27	4	1	55	2	9

Major/Minor	Minor2	Major1		Major2	
Conflicting Flow All	64	7	11	0	0
Stage 1	7	-	-	-	-
Stage 2	58	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-
Pot Cap-1 Maneuver	942	1076	1608	-	-
Stage 1	1017	-	-	-	-
Stage 2	965	-	-	-	-
Platoon blocked, %				-	-
Mov Cap-1 Maneuver	941	1076	1608	-	-
Mov Cap-2 Maneuver	941	-	-	-	-
Stage 1	1016	-	-	-	-
Stage 2	965	-	-	-	-

Approach	SE	NE	SW
HCM Ctrl Dly, s/v	8.89	0.14	0
HCM LOS	A		

Minor Lane/Major Mvmt	NEL	NET SELn1	SWT	SWR
Capacity (veh/h)	35	-	958	-
HCM Lane V/C Ratio	0.001	-	0.033	-
HCM Ctrl Dly (s/v)	7.2	0	8.9	-
HCM Lane LOS	A	A	A	-
HCM 95th %tile Q(veh)	0	-	0.1	-

Intersection	
Intersection Delay, s/veh	8.1
Intersection LOS	A

Movement	SEL	SET	SER	NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations		↕			↔			↕			↕	
Traffic Vol, veh/h	11	49	0	0	64	67	28	46	3	30	0	28
Future Vol, veh/h	11	49	0	0	64	67	28	46	3	30	0	28
Peak Hour Factor	0.75	0.75	0.75	0.72	0.72	0.72	0.88	0.88	0.88	0.93	0.93	0.93
Heavy Vehicles, %	0	0	0	0	0	5	0	0	33	0	0	4
Mvmt Flow	15	65	0	0	89	93	32	52	3	32	0	30
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	SE	NW	NE	SW
Opposing Approach	NW	SE	SW	NE
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SW	NE	SE	NW
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NE	SW	NW	SE
Conflicting Lanes Right	1	1	1	1
HCM Control Delay, s/veh	8	8.1	8.2	7.8
HCM LOS	A	A	A	A

Lane	NELn1	NWLn1	SELn1	SWLn1
Vol Left, %	36%	0%	18%	52%
Vol Thru, %	60%	49%	82%	0%
Vol Right, %	4%	51%	0%	48%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	77	131	60	58
LT Vol	28	0	11	30
Through Vol	46	64	49	0
RT Vol	3	67	0	28
Lane Flow Rate	88	182	80	62
Geometry Grp	1	1	1	1
Degree of Util (X)	0.111	0.204	0.099	0.076
Departure Headway (Hd)	4.584	4.029	4.468	4.381
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	783	893	804	819
Service Time	2.604	2.044	2.486	2.402
HCM Lane V/C Ratio	0.112	0.204	0.1	0.076
HCM Control Delay, s/veh	8.2	8.1	8	7.8
HCM Lane LOS	A	A	A	A
HCM 95th-tile Q	0.4	0.8	0.3	0.2

Intersection						
Int Delay, s/veh	3.6					
Movement	SET	SER	NWL	NWT	NEL	NER
Lane Configurations						
Traffic Vol, veh/h	43	160	49	69	45	22
Future Vol, veh/h	43	160	49	69	45	22
Conflicting Peds, #/hr	0	0	25	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	81	81	87	87	58	58
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	53	198	56	79	78	38

Major/Minor	Major1	Major2	Minor1			
Conflicting Flow All	0	0	276	0	369	177
Stage 1	-	-	-	-	177	-
Stage 2	-	-	-	-	192	-
Critical Hdwy	-	-	4.1	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	-	-	2.2	-	3.5	3.3
Pot Cap-1 Maneuver	-	-	1299	-	635	871
Stage 1	-	-	-	-	859	-
Stage 2	-	-	-	-	845	-
Platoon blocked, %	-	-	-	-	-	-
Mov Cap-1 Maneuver	-	-	1268	-	591	851
Mov Cap-2 Maneuver	-	-	-	-	591	-
Stage 1	-	-	-	-	838	-
Stage 2	-	-	-	-	806	-

Approach	SE	NW	NE
HCM Ctrl Dly, s/v	0	3.31	11.64
HCM LOS			B

Minor Lane/Major Mvmt	NELn1	NWL	NWT	SET	SER
Capacity (veh/h)	657	747	-	-	-
HCM Lane V/C Ratio	0.176	0.044	-	-	-
HCM Ctrl Dly (s/v)	11.6	8	0	-	-
HCM Lane LOS	B	A	A	-	-
HCM 95th %tile Q(veh)	0.6	0.1	-	-	-

Intersection	
Intersection Delay, s/veh	7.1
Intersection LOS	A

Movement	SEL	SET	SER	NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations												
Traffic Vol, veh/h	28	0	5	11	0	12	0	0	0	0	6	0
Future Vol, veh/h	28	0	5	11	0	12	0	0	0	0	6	0
Peak Hour Factor	0.75	0.75	0.75	0.58	0.58	0.58	0.92	0.92	0.92	0.38	0.38	0.38
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	37	0	7	19	0	21	0	0	0	0	16	0
Number of Lanes	0	1	0	0	1	0	0	0	0	0	1	0

Approach	SE	NW	SW
Opposing Approach	NW	SE	
Opposing Lanes	1	1	0
Conflicting Approach Left	SW		NW
Conflicting Lanes Left	1	0	1
Conflicting Approach Right		SW	SE
Conflicting Lanes Right	0	1	1
HCM Control Delay, s/veh	7.3	6.9	7.1
HCM LOS	A	A	A

Lane	NWLn1	SELn1	SWLn1
Vol Left, %	48%	85%	0%
Vol Thru, %	0%	0%	100%
Vol Right, %	52%	15%	0%
Sign Control	Stop	Stop	Stop
Traffic Vol by Lane	23	33	6
LT Vol	11	28	0
Through Vol	0	0	6
RT Vol	12	5	0
Lane Flow Rate	40	44	16
Geometry Grp	1	1	1
Degree of Util (X)	0.041	0.049	0.018
Departure Headway (Hd)	3.743	4.036	4.044
Convergence, Y/N	Yes	Yes	Yes
Cap	958	890	884
Service Time	1.759	2.049	2.074
HCM Lane V/C Ratio	0.042	0.049	0.018
HCM Control Delay, s/veh	6.9	7.3	7.1
HCM Lane LOS	A	A	A
HCM 95th-tile Q	0.1	0.2	0.1

Intersection						
Int Delay, s/veh	4.6					
Movement	NWL	NWR	NET	NER	SWL	SWT
Lane Configurations						
Traffic Vol, veh/h	25	26	44	7	0	1
Future Vol, veh/h	25	26	44	7	0	1
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	73	73	82	82	25	25
Heavy Vehicles, %	0	15	0	0	0	0
Mvmt Flow	34	36	54	9	0	4

Major/Minor	Minor1	Major1	Major2			
Conflicting Flow All	62	58	0	0	62	0
Stage 1	58	-	-	-	-	-
Stage 2	4	-	-	-	-	-
Critical Hdwy	6.4	6.35	-	-	4.1	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.435	-	-	2.2	-
Pot Cap-1 Maneuver	949	973	-	-	1554	-
Stage 1	970	-	-	-	-	-
Stage 2	1024	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	949	973	-	-	1554	-
Mov Cap-2 Maneuver	949	-	-	-	-	-
Stage 1	970	-	-	-	-	-
Stage 2	1024	-	-	-	-	-

Approach	NW	NE	SW
HCM Ctrl Dly, s/v	9.04	0	0
HCM LOS	A		

Minor Lane/Major Mvmt	NET	NER	NWLn1	SWL	SWT
Capacity (veh/h)	-	-	961	1554	-
HCM Lane V/C Ratio	-	-	0.073	-	-
HCM Ctrl Dly (s/v)	-	-	9	0	-
HCM Lane LOS	-	-	A	A	-
HCM 95th %tile Q(veh)	-	-	0.2	0	-

Intersection						
Int Delay, s/veh	2					
Movement	SEL	SER	NEL	NET	SWT	SWR
Lane Configurations	Y			4	4	2
Traffic Vol, veh/h	13	2	4	38	4	22
Future Vol, veh/h	13	2	4	38	4	22
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	14	2	4	41	4	24

Major/Minor	Minor2	Major1	Major2			
Conflicting Flow All	66	16	28	0	-	0
Stage 1	16	-	-	-	-	-
Stage 2	50	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	939	1063	1585	-	-	-
Stage 1	1006	-	-	-	-	-
Stage 2	972	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	936	1063	1585	-	-	-
Mov Cap-2 Maneuver	936	-	-	-	-	-
Stage 1	1004	-	-	-	-	-
Stage 2	972	-	-	-	-	-

Approach	SE	NE	SW
HCM Ctrl Dly, s/v	8.85	0.69	0
HCM LOS	A		

Minor Lane/Major Mvmt	NEL	NET SELn1	SWT	SWR
Capacity (veh/h)	171	-	951	-
HCM Lane V/C Ratio	0.003	-	0.017	-
HCM Ctrl Dly (s/v)	7.3	0	8.8	-
HCM Lane LOS	A	A	A	-
HCM 95th %tile Q(veh)	0	-	0.1	-

Intersection	
Intersection Delay, s/veh	8.7
Intersection LOS	A

Movement	SEL	SET	SER	NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations		↕			↔			↕			↕	
Traffic Vol, veh/h	19	89	0	0	69	128	26	42	7	72	1	16
Future Vol, veh/h	19	89	0	0	69	128	26	42	7	72	1	16
Peak Hour Factor	0.78	0.78	0.78	0.90	0.90	0.90	0.92	0.92	0.92	0.77	0.77	0.77
Heavy Vehicles, %	0	0	0	0	0	2	0	0	22	0	0	4
Mvmt Flow	24	114	0	0	77	142	28	46	8	94	1	21
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	SE	NW	NE	SW
Opposing Approach	NW	SE	SW	NE
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SW	NE	SE	NW
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NE	SW	NW	SE
Conflicting Lanes Right	1	1	1	1
HCM Control Delay, s/veh	8.7	8.6	8.5	8.8
HCM LOS	A	A	A	A

Lane	NELn1	NWLn1	SELn1	SWLn1
Vol Left, %	35%	0%	18%	81%
Vol Thru, %	56%	35%	82%	1%
Vol Right, %	9%	65%	0%	18%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	75	197	108	89
LT Vol	26	0	19	72
Through Vol	42	69	89	1
RT Vol	7	128	0	16
Lane Flow Rate	82	219	138	116
Geometry Grp	1	1	1	1
Degree of Util (X)	0.11	0.253	0.179	0.156
Departure Headway (Hd)	4.849	4.159	4.653	4.844
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	737	862	770	739
Service Time	2.895	2.19	2.689	2.887
HCM Lane V/C Ratio	0.111	0.254	0.179	0.157
HCM Control Delay, s/veh	8.5	8.6	8.7	8.8
HCM Lane LOS	A	A	A	A
HCM 95th-tile Q	0.4	1	0.6	0.6

Intersection						
Int Delay, s/veh	6.8					
Movement	SET	SER	NWL	NWT	NEL	NER
Lane Configurations						
Traffic Vol, veh/h	74	54	31	72	113	52
Future Vol, veh/h	74	54	31	72	113	52
Conflicting Peds, #/hr	0	0	25	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	88	88	88	88	64	64
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	84	61	35	82	177	81

Major/Minor	Major1	Major2	Minor1		
Conflicting Flow All	0	0	170	0	292
Stage 1	-	-	-	-	140
Stage 2	-	-	-	-	152
Critical Hdwy	-	-	4.1	-	6.4
Critical Hdwy Stg 1	-	-	-	-	5.4
Critical Hdwy Stg 2	-	-	-	-	5.4
Follow-up Hdwy	-	-	2.2	-	3.5
Pot Cap-1 Maneuver	-	-	1419	-	703
Stage 1	-	-	-	-	892
Stage 2	-	-	-	-	881
Platoon blocked, %	-	-	-	-	-
Mov Cap-1 Maneuver	-	-	1385	-	668
Mov Cap-2 Maneuver	-	-	-	-	668
Stage 1	-	-	-	-	871
Stage 2	-	-	-	-	857

Approach	SE	NW	NE
HCM Ctrl Dly, s/v	0	2.31	12.67
HCM LOS			B

Minor Lane/Major Mvmt	NELn1	NWL	NWT	SET	SER
Capacity (veh/h)	725	542	-	-	-
HCM Lane V/C Ratio	0.355	0.025	-	-	-
HCM Ctrl Dly (s/v)	12.7	7.7	0	-	-
HCM Lane LOS	B	A	A	-	-
HCM 95th %tile Q(veh)	1.6	0.1	-	-	-

2035 No-Build

2035 No-Build Weekday Morning
5: Hanover St. & Rock St.

08/26/2024

Intersection	
Intersection Delay, s/veh	7.1
Intersection LOS	A

Movement	SEL	SET	SER	NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations												
Traffic Vol, veh/h	40	0	0	7	0	18	0	0	0	0	2	0
Future Vol, veh/h	40	0	0	7	0	18	0	0	0	0	2	0
Peak Hour Factor	0.92	0.73	0.92	0.92	0.88	0.92	0.92	0.92	0.92	0.92	0.25	0.92
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	43	0	0	8	0	20	0	0	0	0	8	0
Number of Lanes	0	1	0	0	1	0	0	0	0	0	1	0

Approach	SE	NW	SW
Opposing Approach	NW	SE	
Opposing Lanes	1	1	0
Conflicting Approach Left	SW		NW
Conflicting Lanes Left	1	0	1
Conflicting Approach Right		SW	SE
Conflicting Lanes Right	0	1	1
HCM Control Delay, s/veh	7.4	6.7	7.1
HCM LOS	A	A	A

Lane	NWLn1	SELn1	SWLn1
Vol Left, %	28%	100%	0%
Vol Thru, %	0%	0%	100%
Vol Right, %	72%	0%	0%
Sign Control	Stop	Stop	Stop
Traffic Vol by Lane	25	40	2
LT Vol	7	40	0
Through Vol	0	0	2
RT Vol	18	0	0
Lane Flow Rate	27	43	8
Geometry Grp	1	1	1
Degree of Util (X)	0.027	0.05	0.009
Departure Headway (Hd)	3.57	4.134	4.022
Convergence, Y/N	Yes	Yes	Yes
Cap	1005	870	889
Service Time	1.583	2.14	2.049
HCM Lane V/C Ratio	0.027	0.049	0.009
HCM Control Delay, s/veh	6.7	7.4	7.1
HCM Lane LOS	A	A	A
HCM 95th-tile Q	0.1	0.2	0

2035 No-Build Weekday Morning
 8: Hanover St. & Pearl St./Private Driveway

08/26/2024

Intersection												
Int Delay, s/veh	2.2											
Movement	SEL	SET	SER	NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	0	0	1	1	3	16	1	45	12	1	1	0
Future Vol, veh/h	0	0	1	1	3	16	1	45	12	1	1	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	25	92	92	85	92	92	77	92	92	50	92
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	0	0	1	1	4	17	1	58	13	1	2	0

Major/Minor	Minor2		Minor1		Major1			Major2				
Conflicting Flow All	67	78	2	71	71	65	2	0	0	71	0	0
Stage 1	4	4	-	67	67	-	-	-	-	-	-	-
Stage 2	62	74	-	4	4	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.1	6.5	6.2	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	932	816	1088	925	823	1005	1634	-	-	1542	-	-
Stage 1	1023	896	-	948	843	-	-	-	-	-	-	-
Stage 2	954	838	-	1023	896	-	-	-	-	-	-	-
Platoon blocked, %								-	-	-	-	-
Mov Cap-1 Maneuver	910	815	1088	923	822	1005	1634	-	-	1542	-	-
Mov Cap-2 Maneuver	910	815	-	923	822	-	-	-	-	-	-	-
Stage 1	1023	896	-	948	842	-	-	-	-	-	-	-
Stage 2	933	837	-	1022	896	-	-	-	-	-	-	-

Approach	SE		NW		NE		SW	
HCM Control Delay, s/v	8.31		8.81		0.11		2.58	
HCM LOS	A		A					

Minor Lane/Major Mvmt	NEL	NET	NERNWLn1	SELn1	SWL	SWT	SWR
Capacity (veh/h)	26	-	-	966	1088	634	-
HCM Lane V/C Ratio	0.001	-	-	0.023	0.001	0.001	-
HCM Control Delay (s/veh)	7.2	0	-	8.8	8.3	7.3	0
HCM Lane LOS	A	A	-	A	A	A	-
HCM 95th %tile Q(veh)	0	-	-	0.1	0	0	-

Intersection	
Intersection Delay, s/veh	8
Intersection LOS	A

Movement	SEL	SET	SER	NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	12	48	0	0	66	74	21	40	3	29	0	31
Future Vol, veh/h	12	48	0	0	66	74	21	40	3	29	0	31
Peak Hour Factor	0.75	0.75	0.75	0.72	0.72	0.72	0.88	0.88	0.88	0.93	0.93	0.93
Heavy Vehicles, %	0	0	0	0	0	5	0	0	33	0	0	4
Mvmt Flow	16	64	0	0	92	103	24	45	3	31	0	33
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	SE	NW	NE	SW
Opposing Approach	NW	SE	SW	NE
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SW	NE	SE	NW
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NE	SW	NW	SE
Conflicting Lanes Right	1	1	1	1
HCM Control Delay, s/veh	8	8.1	8.1	7.8
HCM LOS	A	A	A	A

Lane	NELn1	NWLn1	SELn1	SWLn1
Vol Left, %	33%	0%	20%	48%
Vol Thru, %	63%	47%	80%	0%
Vol Right, %	5%	53%	0%	52%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	64	140	60	60
LT Vol	21	0	12	29
Through Vol	40	66	48	0
RT Vol	3	74	0	31
Lane Flow Rate	73	194	80	65
Geometry Grp	1	1	1	1
Degree of Util (X)	0.093	0.216	0.099	0.078
Departure Headway (Hd)	4.598	3.99	4.452	4.36
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	780	902	807	823
Service Time	2.618	2.002	2.468	2.38
HCM Lane V/C Ratio	0.094	0.215	0.099	0.079
HCM Control Delay, s/veh	8.1	8.1	8	7.8
HCM Lane LOS	A	A	A	A
HCM 95th-tile Q	0.3	0.8	0.3	0.3

Intersection						
Int Delay, s/veh	3.6					
Movement	SET	SER	NWL	NWT	NEL	NER
Lane Configurations						
Traffic Vol, veh/h	43	173	52	64	47	22
Future Vol, veh/h	43	173	52	64	47	22
Conflicting Peds, #/hr	0	0	25	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	81	81	87	87	58	58
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	53	214	60	74	81	38

Major/Minor	Major1	Major2	Minor1		
Conflicting Flow All	0	0	292	0	378 185
Stage 1	-	-	-	-	185 -
Stage 2	-	-	-	-	193 -
Critical Hdwy	-	-	4.1	-	6.4 6.2
Critical Hdwy Stg 1	-	-	-	-	5.4 -
Critical Hdwy Stg 2	-	-	-	-	5.4 -
Follow-up Hdwy	-	-	2.2	-	3.5 3.3
Pot Cap-1 Maneuver	-	-	1282	-	628 863
Stage 1	-	-	-	-	852 -
Stage 2	-	-	-	-	844 -
Platoon blocked, %	-	-	-	-	-
Mov Cap-1 Maneuver	-	-	1251	-	582 842
Mov Cap-2 Maneuver	-	-	-	-	582 -
Stage 1	-	-	-	-	831 -
Stage 2	-	-	-	-	802 -

Approach	SE	NW	NE
HCM Control Delay, s/v	0	3.6	11.83
HCM LOS			B

Minor Lane/Major Mvmt	NELn1	NWL	NWT	SET	SER
Capacity (veh/h)	646	807	-	-	-
HCM Lane V/C Ratio	0.184	0.048	-	-	-
HCM Control Delay (s/veh)	11.8	8	0	-	-
HCM Lane LOS	B	A	A	-	-
HCM 95th %tile Q(veh)	0.7	0.2	-	-	-

2035 No-Build Weekday Evening
5: Hanover St. & Rock St.

08/26/2024

Intersection	
Intersection Delay, s/veh	7
Intersection LOS	A

Movement	SEL	SET	SER	NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations												
Traffic Vol, veh/h	21	0	6	12	0	11	0	0	0	0	4	0
Future Vol, veh/h	21	0	6	12	0	11	0	0	0	0	4	0
Peak Hour Factor	0.75	0.75	0.75	0.58	0.58	0.58	0.92	0.92	0.92	0.38	0.38	0.38
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	28	0	8	21	0	19	0	0	0	0	11	0
Number of Lanes	0	1	0	0	1	0	0	0	0	0	1	0

Approach	SE	NW	SW
Opposing Approach	NW	SE	
Opposing Lanes	1	1	0
Conflicting Approach Left	SW		NW
Conflicting Lanes Left	1	0	1
Conflicting Approach Right		SW	SE
Conflicting Lanes Right	0	1	1
HCM Control Delay, s/veh	7.1	6.9	7.1
HCM LOS	A	A	A

Lane	NWLn1	SELn1	SWLn1
Vol Left, %	52%	78%	0%
Vol Thru, %	0%	0%	100%
Vol Right, %	48%	22%	0%
Sign Control	Stop	Stop	Stop
Traffic Vol by Lane	23	27	4
LT Vol	12	21	0
Through Vol	0	0	4
RT Vol	11	6	0
Lane Flow Rate	40	36	11
Geometry Grp	1	1	1
Degree of Util (X)	0.041	0.04	0.012
Departure Headway (Hd)	3.762	3.969	4.03
Convergence, Y/N	Yes	Yes	Yes
Cap	954	905	887
Service Time	1.774	1.98	2.057
HCM Lane V/C Ratio	0.042	0.04	0.012
HCM Control Delay, s/veh	6.9	7.1	7.1
HCM Lane LOS	A	A	A
HCM 95th-tile Q	0.1	0.1	0

2035 No-Build Weekday Evening
 8: Hanover St. & Pearl St./Private Driveway

08/26/2024

Intersection												
Int Delay, s/veh	5.1											
Movement	SEL	SET	SER	NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	13	3	0	3	0	29	0	37	6	0	1	0
Future Vol, veh/h	13	3	0	3	0	29	0	37	6	0	1	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	50	50	50	73	73	73	82	82	82	25	25	25
Heavy Vehicles, %	0	0	0	0	0	15	0	0	0	0	0	0
Mvmt Flow	26	6	0	4	0	40	0	45	7	0	4	0

Major/Minor	Minor2		Minor1			Major1		Major2				
Conflicting Flow All	49	56	4	56	53	49	4	0	0	52	0	0
Stage 1	4	4	-	49	49	-	-	-	-	-	-	-
Stage 2	45	52	-	7	4	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.1	6.5	6.35	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.435	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	956	839	1085	947	842	984	1631	-	-	1566	-	-
Stage 1	1024	897	-	970	858	-	-	-	-	-	-	-
Stage 2	974	855	-	1020	897	-	-	-	-	-	-	-
Platoon blocked, %								-	-	-	-	-
Mov Cap-1 Maneuver	917	839	1085	940	842	984	1631	-	-	1566	-	-
Mov Cap-2 Maneuver	917	839	-	940	842	-	-	-	-	-	-	-
Stage 1	1024	897	-	970	858	-	-	-	-	-	-	-
Stage 2	935	855	-	1013	897	-	-	-	-	-	-	-

Approach	SE		NW			NE		SW		
HCM Control Delay, s/v	9.14		8.85			0		0		
HCM LOS	A		A							

Minor Lane/Major Mvmt	NEL	NET	NERNWLn1	SELn1	SWL	SWT	SWR
Capacity (veh/h)	1631	-	-	980	902	1566	-
HCM Lane V/C Ratio	-	-	-	0.045	0.035	-	-
HCM Control Delay (s/veh)	0	-	-	8.8	9.1	0	-
HCM Lane LOS	A	-	-	A	A	A	-
HCM 95th %tile Q(veh)	0	-	-	0.1	0.1	0	-

Intersection	
Intersection Delay, s/veh	8.8
Intersection LOS	A

Movement	SEL	SET	SER	NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations		↕			↔			↕			↕	
Traffic Vol, veh/h	21	86	0	0	73	142	28	48	10	68	1	18
Future Vol, veh/h	21	86	0	0	73	142	28	48	10	68	1	18
Peak Hour Factor	0.78	0.78	0.78	0.90	0.90	0.90	0.92	0.92	0.92	0.77	0.77	0.77
Heavy Vehicles, %	0	0	0	0	0	2	0	0	22	0	0	4
Mvmt Flow	27	110	0	0	81	158	30	52	11	88	1	23
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	SE	NW	NE	SW
Opposing Approach	NW	SE	SW	NE
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SW	NE	SE	NW
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NE	SW	NW	SE
Conflicting Lanes Right	1	1	1	1
HCM Control Delay, s/veh	8.8	8.8	8.6	8.8
HCM LOS	A	A	A	A

Lane	NELn1	NWLn1	SELn1	SWLn1
Vol Left, %	33%	0%	20%	78%
Vol Thru, %	56%	34%	80%	1%
Vol Right, %	12%	66%	0%	21%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	86	215	107	87
LT Vol	28	0	21	68
Through Vol	48	73	86	1
RT Vol	10	142	0	18
Lane Flow Rate	93	239	137	113
Geometry Grp	1	1	1	1
Degree of Util (X)	0.126	0.277	0.179	0.153
Departure Headway (Hd)	4.87	4.176	4.703	4.88
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	733	860	761	732
Service Time	2.92	2.209	2.743	2.928
HCM Lane V/C Ratio	0.127	0.278	0.18	0.154
HCM Control Delay, s/veh	8.6	8.8	8.8	8.8
HCM Lane LOS	A	A	A	A
HCM 95th-tile Q	0.4	1.1	0.6	0.5

Intersection						
Int Delay, s/veh	7.1					
Movement	SET	SER	NWL	NWT	NEL	NER
Lane Configurations	↑			↑	↑	
Traffic Vol, veh/h	72	57	33	75	121	55
Future Vol, veh/h	72	57	33	75	121	55
Conflicting Peds, #/hr	0	0	25	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	88	88	88	88	64	64
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	82	65	38	85	189	86

Major/Minor	Major1	Major2	Minor1		
Conflicting Flow All	0	0	172	0	299
Stage 1	-	-	-	-	139
Stage 2	-	-	-	-	160
Critical Hdwy	-	-	4.1	-	6.4
Critical Hdwy Stg 1	-	-	-	-	5.4
Critical Hdwy Stg 2	-	-	-	-	5.4
Follow-up Hdwy	-	-	2.2	-	3.5
Pot Cap-1 Maneuver	-	-	1418	-	696
Stage 1	-	-	-	-	892
Stage 2	-	-	-	-	873
Platoon blocked, %	-	-	-	-	-
Mov Cap-1 Maneuver	-	-	1384	-	660
Mov Cap-2 Maneuver	-	-	-	-	660
Stage 1	-	-	-	-	871
Stage 2	-	-	-	-	849

Approach	SE	NW	NE
HCM Control Delay, s/v	0	2.34	13.08
HCM LOS			B

Minor Lane/Major Mvmt	NELn1	NWL	NWT	SET	SER
Capacity (veh/h)	719	550	-	-	-
HCM Lane V/C Ratio	0.383	0.027	-	-	-
HCM Control Delay (s/veh)	13.1	7.7	0	-	-
HCM Lane LOS	B	A	A	-	-
HCM 95th %tile Q(veh)	1.8	0.1	-	-	-

2025 Build

Intersection	
Intersection Delay, s/veh	7.1
Intersection LOS	A

Movement	SEL	SET	SER	NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations												
Traffic Vol, veh/h	39	0	0	7	0	19	0	0	0	0	6	0
Future Vol, veh/h	39	0	0	7	0	19	0	0	0	0	6	0
Peak Hour Factor	0.92	0.73	0.92	0.92	0.88	0.92	0.92	0.92	0.92	0.92	0.25	0.92
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	42	0	0	8	0	21	0	0	0	0	24	0
Number of Lanes	0	1	0	0	1	0	0	0	0	0	1	0

Approach	SE	NW	SW
Opposing Approach	NW	SE	
Opposing Lanes	1	1	0
Conflicting Approach Left	SW		NW
Conflicting Lanes Left	1	0	1
Conflicting Approach Right		SW	SE
Conflicting Lanes Right	0	1	1
HCM Control Delay, s/veh	7.4	6.7	7.2
HCM LOS	A	A	A

Lane	NWLn1	SELn1	SWLn1
Vol Left, %	27%	100%	0%
Vol Thru, %	0%	0%	100%
Vol Right, %	73%	0%	0%
Sign Control	Stop	Stop	Stop
Traffic Vol by Lane	26	39	6
LT Vol	7	39	0
Through Vol	0	0	6
RT Vol	19	0	0
Lane Flow Rate	28	42	24
Geometry Grp	1	1	1
Degree of Util (X)	0.028	0.049	0.027
Departure Headway (Hd)	3.588	4.163	4.022
Convergence, Y/N	Yes	Yes	Yes
Cap	998	863	889
Service Time	1.61	2.177	2.049
HCM Lane V/C Ratio	0.028	0.049	0.027
HCM Control Delay, s/veh	6.7	7.4	7.2
HCM Lane LOS	A	A	A
HCM 95th-tile Q	0.1	0.2	0.1

Intersection						
Int Delay, s/veh	1.9					
Movement	NWL	NWR	NET	NER	SWL	SWT
Lane Configurations						
Traffic Vol, veh/h	9	16	65	17	1	1
Future Vol, veh/h	9	16	65	17	1	1
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	77	92	92	50
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	10	17	84	18	1	2

Major/Minor	Minor1	Major1	Major2			
Conflicting Flow All	98	94	0	0	103	0
Stage 1	94	-	-	-	-	-
Stage 2	4	-	-	-	-	-
Critical Hdwy	6.4	6.2	-	-	4.1	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	906	969	-	-	1502	-
Stage 1	935	-	-	-	-	-
Stage 2	1024	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	905	969	-	-	1502	-
Mov Cap-2 Maneuver	905	-	-	-	-	-
Stage 1	935	-	-	-	-	-
Stage 2	1023	-	-	-	-	-

Approach	NW	NE	SW
HCM Ctrl Dly, s/v	8.92	0	2.61
HCM LOS	A		

Minor Lane/Major Mvmt	NET	NER	NWLn1	SWL	SWT
Capacity (veh/h)	-	-	945	634	-
HCM Lane V/C Ratio	-	-	0.029	0.001	-
HCM Ctrl Dly (s/v)	-	-	8.9	7.4	0
HCM Lane LOS	-	-	A	A	A
HCM 95th %tile Q(veh)	-	-	0.1	0	-

Intersection						
Int Delay, s/veh	2.7					
Movement	SEL	SER	NEL	NET	SWT	SWR
Lane Configurations						
Traffic Vol, veh/h	25	4	1	57	2	8
Future Vol, veh/h	25	4	1	57	2	8
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	27	4	1	62	2	9

Major/Minor	Minor2	Major1		Major2	
Conflicting Flow All	71	7	11	0	0
Stage 1	7	-	-	-	-
Stage 2	64	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-
Pot Cap-1 Maneuver	934	1076	1608	-	-
Stage 1	1017	-	-	-	-
Stage 2	959	-	-	-	-
Platoon blocked, %				-	-
Mov Cap-1 Maneuver	933	1076	1608	-	-
Mov Cap-2 Maneuver	933	-	-	-	-
Stage 1	1016	-	-	-	-
Stage 2	959	-	-	-	-

Approach	SE	NE	SW
HCM Ctrl Dly, s/v	8.92	0.12	0
HCM LOS	A		

Minor Lane/Major Mvmt	NEL	NET SELn1	SWT	SWR
Capacity (veh/h)	31	-	950	-
HCM Lane V/C Ratio	0.001	-	0.033	-
HCM Ctrl Dly (s/v)	7.2	0	8.9	-
HCM Lane LOS	A	A	A	-
HCM 95th %tile Q(veh)	0	-	0.1	-

Intersection	
Intersection Delay, s/veh	8.2
Intersection LOS	A

Movement	SEL	SET	SER	NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	12	51	0	0	66	74	30	50	3	33	0	31
Future Vol, veh/h	12	51	0	0	66	74	30	50	3	33	0	31
Peak Hour Factor	0.75	0.75	0.75	0.72	0.72	0.72	0.88	0.88	0.88	0.93	0.93	0.93
Heavy Vehicles, %	0	0	0	0	0	5	0	0	33	0	0	4
Mvmt Flow	16	68	0	0	92	103	34	57	3	35	0	33
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	SE	NW	NE	SW
Opposing Approach	NW	SE	SW	NE
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SW	NE	SE	NW
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NE	SW	NW	SE
Conflicting Lanes Right	1	1	1	1
HCM Control Delay, s/veh	8.1	8.2	8.3	7.9
HCM LOS	A	A	A	A

Lane	NELn1	NWLn1	SELn1	SWLn1
Vol Left, %	36%	0%	19%	52%
Vol Thru, %	60%	47%	81%	0%
Vol Right, %	4%	53%	0%	48%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	83	140	63	64
LT Vol	30	0	12	33
Through Vol	50	66	51	0
RT Vol	3	74	0	31
Lane Flow Rate	94	194	84	69
Geometry Grp	1	1	1	1
Degree of Util (X)	0.121	0.219	0.105	0.085
Departure Headway (Hd)	4.633	4.062	4.521	4.429
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	774	887	795	810
Service Time	2.655	2.076	2.539	2.451
HCM Lane V/C Ratio	0.121	0.219	0.106	0.085
HCM Control Delay, s/veh	8.3	8.2	8.1	7.9
HCM Lane LOS	A	A	A	A
HCM 95th-tile Q	0.4	0.8	0.4	0.3

Intersection						
Int Delay, s/veh	4					
Movement	SET	SER	NWL	NWT	NEL	NER
Lane Configurations						
Traffic Vol, veh/h	46	173	73	52	47	23
Future Vol, veh/h	46	173	73	52	47	23
Conflicting Peds, #/hr	0	0	25	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	81	81	87	87	58	58
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	57	214	84	60	81	40

Major/Minor	Major1	Major2	Minor1		
Conflicting Flow All	0	0	295	0	416 189
Stage 1	-	-	-	-	189 -
Stage 2	-	-	-	-	228 -
Critical Hdwy	-	-	4.1	-	6.4 6.2
Critical Hdwy Stg 1	-	-	-	-	5.4 -
Critical Hdwy Stg 2	-	-	-	-	5.4 -
Follow-up Hdwy	-	-	2.2	-	3.5 3.3
Pot Cap-1 Maneuver	-	-	1278	-	597 858
Stage 1	-	-	-	-	848 -
Stage 2	-	-	-	-	815 -
Platoon blocked, %	-	-	-	-	-
Mov Cap-1 Maneuver	-	-	1247	-	542 838
Mov Cap-2 Maneuver	-	-	-	-	542 -
Stage 1	-	-	-	-	828 -
Stage 2	-	-	-	-	758 -

Approach	SE	NW	NE
HCM Ctrl Dly, s/v	0	4.73	12.3
HCM LOS			B

Minor Lane/Major Mvmt	NELn1	NWL	NWT	SET	SER
Capacity (veh/h)	613	1051	-	-	-
HCM Lane V/C Ratio	0.197	0.067	-	-	-
HCM Ctrl Dly (s/v)	12.3	8.1	0	-	-
HCM Lane LOS	B	A	A	-	-
HCM 95th %tile Q(veh)	0.7	0.2	-	-	-

Intersection	
Intersection Delay, s/veh	7.1
Intersection LOS	A

Movement	SEL	SET	SER	NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations												
Traffic Vol, veh/h	32	0	6	12	0	15	0	0	0	0	5	0
Future Vol, veh/h	32	0	6	12	0	15	0	0	0	0	5	0
Peak Hour Factor	0.75	0.75	0.75	0.58	0.58	0.58	0.92	0.92	0.92	0.38	0.38	0.38
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	43	0	8	21	0	26	0	0	0	0	13	0
Number of Lanes	0	1	0	0	1	0	0	0	0	0	1	0

Approach	SE	NW	SW
Opposing Approach	NW	SE	
Opposing Lanes	1	1	0
Conflicting Approach Left	SW		NW
Conflicting Lanes Left	1	0	1
Conflicting Approach Right		SW	SE
Conflicting Lanes Right	0	1	1
HCM Control Delay, s/veh	7.3	6.9	7.2
HCM LOS	A	A	A

Lane	NWLn1	SELn1	SWLn1
Vol Left, %	44%	84%	0%
Vol Thru, %	0%	0%	100%
Vol Right, %	56%	16%	0%
Sign Control	Stop	Stop	Stop
Traffic Vol by Lane	27	38	5
LT Vol	12	32	0
Through Vol	0	0	5
RT Vol	15	6	0
Lane Flow Rate	47	51	13
Geometry Grp	1	1	1
Degree of Util (X)	0.048	0.057	0.015
Departure Headway (Hd)	3.717	4.032	4.067
Convergence, Y/N	Yes	Yes	Yes
Cap	965	891	878
Service Time	1.733	2.044	2.103
HCM Lane V/C Ratio	0.049	0.057	0.015
HCM Control Delay, s/veh	6.9	7.3	7.2
HCM Lane LOS	A	A	A
HCM 95th-tile Q	0.2	0.2	0

Intersection						
Int Delay, s/veh	4.6					
Movement	NWL	NWR	NET	NER	SWL	SWT
Lane Configurations						
Traffic Vol, veh/h	25	29	48	8	0	1
Future Vol, veh/h	25	29	48	8	0	1
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	73	73	82	82	25	25
Heavy Vehicles, %	0	15	0	0	0	0
Mvmt Flow	34	40	59	10	0	4

Major/Minor	Minor1	Major1	Major2			
Conflicting Flow All	67	63	0	0	68	0
Stage 1	63	-	-	-	-	-
Stage 2	4	-	-	-	-	-
Critical Hdwy	6.4	6.35	-	-	4.1	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.435	-	-	2.2	-
Pot Cap-1 Maneuver	943	966	-	-	1546	-
Stage 1	964	-	-	-	-	-
Stage 2	1024	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	943	966	-	-	1546	-
Mov Cap-2 Maneuver	943	-	-	-	-	-
Stage 1	964	-	-	-	-	-
Stage 2	1024	-	-	-	-	-

Approach	NW	NE	SW
HCM Ctrl Dly, s/v	9.09	0	0
HCM LOS	A		

Minor Lane/Major Mvmt	NET	NER	NWLn1	SWL	SWT
Capacity (veh/h)	-	-	955	1546	-
HCM Lane V/C Ratio	-	-	0.077	-	-
HCM Ctrl Dly (s/v)	-	-	9.1	0	-
HCM Lane LOS	-	-	A	A	-
HCM 95th %tile Q(veh)	-	-	0.3	0	-

Intersection						
Int Delay, s/veh	1.8					
Movement	SEL	SER	NEL	NET	SWT	SWR
Lane Configurations						
Traffic Vol, veh/h	13	2	4	43	4	22
Future Vol, veh/h	13	2	4	43	4	22
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	14	2	4	47	4	24

Major/Minor	Minor2	Major1		Major2	
Conflicting Flow All	72	16	28	0	0
Stage 1	16	-	-	-	-
Stage 2	55	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-
Pot Cap-1 Maneuver	932	1063	1585	-	-
Stage 1	1006	-	-	-	-
Stage 2	967	-	-	-	-
Platoon blocked, %				-	-
Mov Cap-1 Maneuver	930	1063	1585	-	-
Mov Cap-2 Maneuver	930	-	-	-	-
Stage 1	1004	-	-	-	-
Stage 2	967	-	-	-	-

Approach	SE	NE	SW
HCM Ctrl Dly, s/v	8.87	0.62	0
HCM LOS	A		

Minor Lane/Major Mvmt	NEL	NET SELn1	SWT	SWR
Capacity (veh/h)	153	-	946	-
HCM Lane V/C Ratio	0.003	-	0.017	-
HCM Ctrl Dly (s/v)	7.3	0	8.9	-
HCM Lane LOS	A	A	A	-
HCM 95th %tile Q(veh)	0	-	0.1	-

Intersection	
Intersection Delay, s/veh	8.9
Intersection LOS	A

Movement	SEL	SET	SER	NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations		↕			↔			↕			↕	
Traffic Vol, veh/h	21	94	0	0	73	142	29	47	8	78	1	18
Future Vol, veh/h	21	94	0	0	73	142	29	47	8	78	1	18
Peak Hour Factor	0.78	0.78	0.78	0.90	0.90	0.90	0.92	0.92	0.92	0.77	0.77	0.77
Heavy Vehicles, %	0	0	0	0	0	2	0	0	22	0	0	4
Mvmt Flow	27	121	0	0	81	158	32	51	9	101	1	23
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	SE	NW	NE	SW
Opposing Approach	NW	SE	SW	NE
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SW	NE	SE	NW
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NE	SW	NW	SE
Conflicting Lanes Right	1	1	1	1
HCM Control Delay, s/veh	8.9	8.9	8.7	9
HCM LOS	A	A	A	A

Lane	NELn1	NWLn1	SELn1	SWLn1
Vol Left, %	35%	0%	18%	80%
Vol Thru, %	56%	34%	82%	1%
Vol Right, %	10%	66%	0%	19%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	84	215	115	97
LT Vol	29	0	21	78
Through Vol	47	73	94	1
RT Vol	8	142	0	18
Lane Flow Rate	91	239	147	126
Geometry Grp	1	1	1	1
Degree of Util (X)	0.125	0.28	0.194	0.172
Departure Headway (Hd)	4.935	4.222	4.736	4.924
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	722	848	755	726
Service Time	2.991	2.259	2.779	2.978
HCM Lane V/C Ratio	0.126	0.282	0.195	0.174
HCM Control Delay, s/veh	8.7	8.9	8.9	9
HCM Lane LOS	A	A	A	A
HCM 95th-tile Q	0.4	1.1	0.7	0.6

Intersection						
Int Delay, s/veh	7.1					
Movement	SET	SER	NWL	NWT	NEL	NER
Lane Configurations						
Traffic Vol, veh/h	80	57	32	77	121	55
Future Vol, veh/h	80	57	32	77	121	55
Conflicting Peds, #/hr	0	0	25	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	88	88	88	88	64	64
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	91	65	36	88	189	86

Major/Minor	Major1	Major2	Minor1		
Conflicting Flow All	0	0	181	0	309
Stage 1	-	-	-	-	148
Stage 2	-	-	-	-	160
Critical Hdwy	-	-	4.1	-	6.4
Critical Hdwy Stg 1	-	-	-	-	5.4
Critical Hdwy Stg 2	-	-	-	-	5.4
Follow-up Hdwy	-	-	2.2	-	3.5
Pot Cap-1 Maneuver	-	-	1407	-	688
Stage 1	-	-	-	-	884
Stage 2	-	-	-	-	873
Platoon blocked, %	-	-	-	-	-
Mov Cap-1 Maneuver	-	-	1373	-	653
Mov Cap-2 Maneuver	-	-	-	-	653
Stage 1	-	-	-	-	863
Stage 2	-	-	-	-	849

Approach	SE	NW	NE
HCM Ctrl Dly, s/v	0	2.26	13.23
HCM LOS			B

Minor Lane/Major Mvmt	NELn1	NWL	NWT	SET	SER
Capacity (veh/h)	711	528	-	-	-
HCM Lane V/C Ratio	0.387	0.026	-	-	-
HCM Ctrl Dly (s/v)	13.2	7.7	0	-	-
HCM Lane LOS	B	A	A	-	-
HCM 95th %tile Q(veh)	1.8	0.1	-	-	-

PROPOSED DEVELOPMENT

361 HANOVER STREET PORTSMOUTH, NEW HAMPSHIRE SITE PERMIT PLANS

OWNER/APPLICANT:

361 HANOVER STEAM
FACTORY, LLC
41 INDUSTRIAL DRIVE UNIT 20
EXETER, NH 03833
TEL. (603) 235-5475

CIVIL ENGINEER/LAND SURVEYOR:

HALEY WARD, INC.
200 GRIFFIN ROAD, UNIT 3
PORTSMOUTH, N.H. 03801
TEL. (603) 430-9282

ARCHITECT:

SCOTT BROWN
29 WATER STREET, SUITE 209
NEWBURYPORT, MA 01950
TEL. (978) 465-3535

PLANNING CONSULTANT:

NICHOLAS CRACKNELL
TEL. (978) 270-4789

LAND USE ATTORNEY:

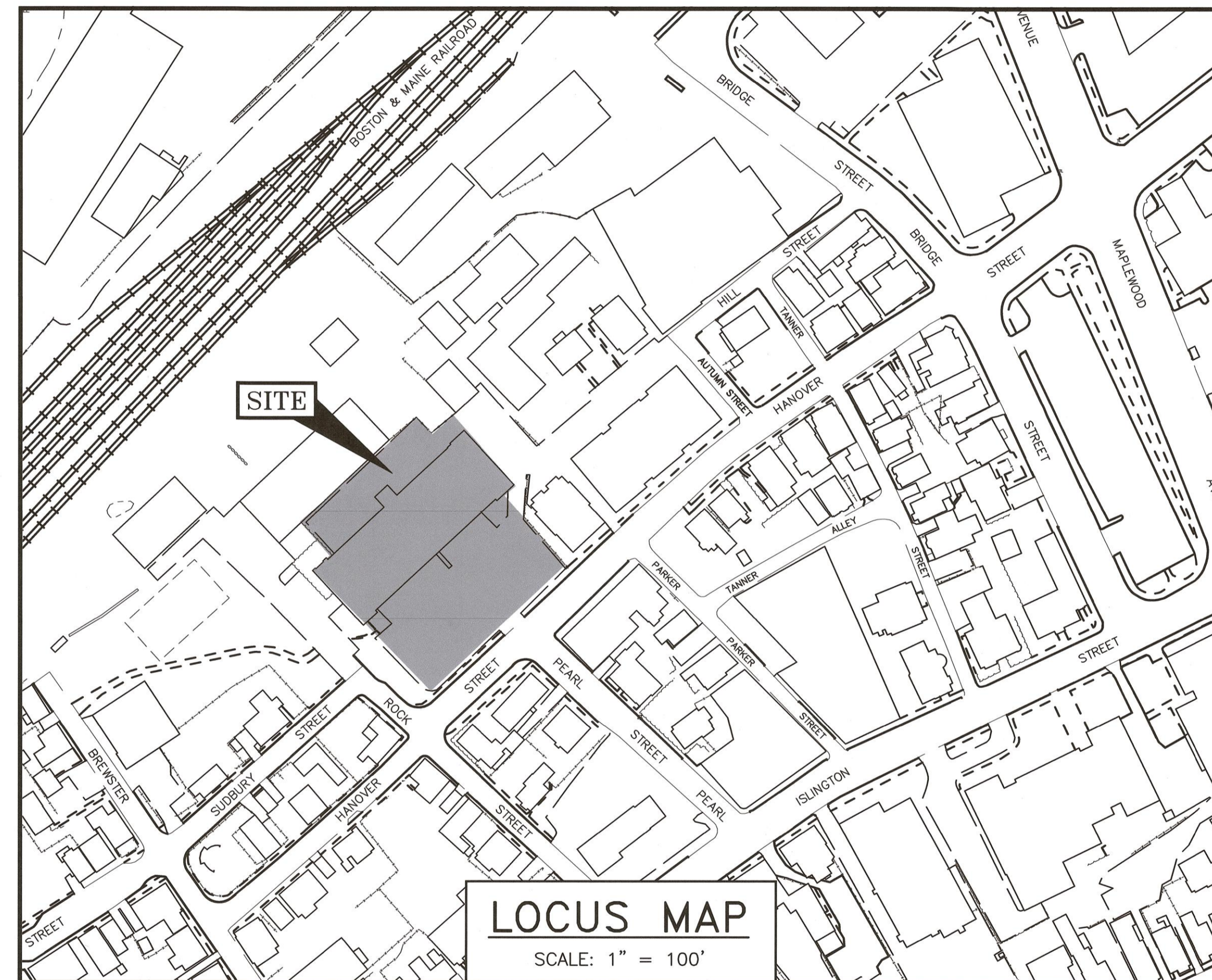
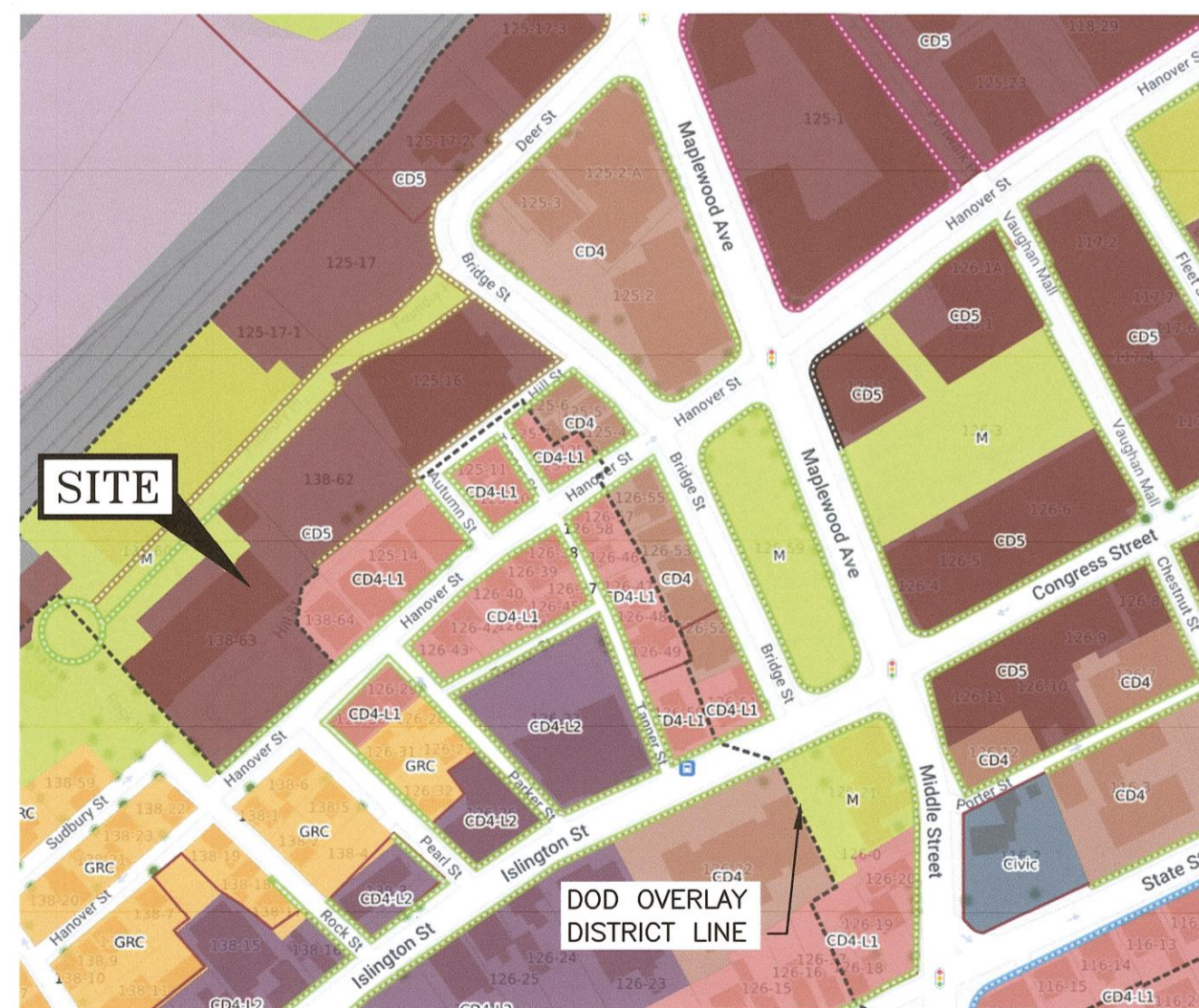
BOSEN & ASSOCIATES
266 MIDDLE STREET
PORTSMOUTH, N.H. 03801
TEL. (603) 427-5500

PERMIT LIST:
PORTSMOUTH HDC:
PORTSMOUTH ZONING BOARD: APPROVED
PORTSMOUTH SITE REVIEW:
PORTSMOUTH CONDITIONAL USE PERMIT: TBD

SITE EXCAVATION NOTE:
SITE EVACUATION SHALL FOLLOW PROCEDURES AS OUTLINED IN THE FOLLOWING STATUTES:
RSA 227-C:8-A DISCOVERY OF REMAINS AND NOTIFICATION OF AUTHORITIES (CONSTRUCTION SITES).
RSA 289:3 CEMETERIES-LOCATIONS (25 FEET FROM KNOWN CEMETERY LOCATION).
IF REMAINS ARE ENCOUNTERED CONTACT:
MARK DOPERLSKI
STATE ARCHAEOLOGIST
DIVISION OF HISTORICAL RESOURCES
NH DEPARTMENT OF NATURAL AND CULTURAL RESOURCES
172 PEMBROKE ROAD
CONCORD, NH 03301
http://www.nh.gov/nhdhr

LEGEND:

EXISTING	PROPOSED	
---	---	PROPERTY LINE
---	---	SETBACK
S	S	SEWER PIPE
SL	SL	SEWER LATERAL
G	G	GAS LINE
D	D	STORM DRAIN
W	W	WATER LINE
WS	WS	WATER SERVICE
UGE	UGE	UNDERGROUND ELECTRIC
OHW	OHW	OVERHEAD ELECTRIC WIRES
---	---	FOUNDATION DRAIN
---	---	EDGE OF PAVEMENT (EP)
---	---	CONTOUR
---	---	SPOT ELEVATION
---	---	UTILITY POLE
---	---	WALL MOUNTED EXTERIOR LIGHTS
---	---	TRANSFORMER ON CONCRETE PAD
---	---	ELECTRIC HANDHOLD
---	---	SHUT OFFS (WATER/GAS)
---	---	GATE VALVE
---	---	HYDRANT
---	---	CATCH BASIN
---	---	SEWER MANHOLE
---	---	DRAIN MANHOLE
---	---	TELEPHONE MANHOLE
---	---	PARKING SPACE COUNT
---	---	PARKING METER
---	---	LANDSCAPED AREA
TBD	TBD	TO BE DETERMINED
CI	CI	CAST IRON PIPE
COP	COP	COPPER PIPE
DI	DI	DUCTILE IRON PIPE
PVC	PVC	POLYVINYL CHLORIDE PIPE
RCP	RCP	REINFORCED CONCRETE PIPE
AC	AC	ASBESTOS CEMENT PIPE
VC	VC	VITRIFIED CLAY PIPE
EP	EP	EDGE OF PAVEMENT
EL	EL	ELEVATION
FF	FF	FINISHED FLOOR
INV	INV	INVERT
S =	S =	SLOPE FT/FT
TBM	TBM	TEMPORARY BENCH MARK
TYP	TYP	TYPICAL



UTILITY CONTACTS

ELECTRIC:
EVERSOURCE
1700 LAFAYETTE ROAD
PORTSMOUTH, N.H. 03801
Tel. (603) 436-7708, Ext. 555.5678
ATTN: NICHOLAS KOSKO

NATURAL GAS:
UNITIL
325 WEST ROAD
PORTSMOUTH, N.H. 03801
Tel. (603) 294-5144
ATTN: DAVE BEAULIEU

CABLE:
COMCAST
155 COMMERCE WAY
PORTSMOUTH, N.H. 03801
Tel. (603) 679-5695 (X1037)
ATTN: MIKE COLLINS

SEWER & WATER:
PORTSMOUTH DEPARTMENT OF PUBLIC WORKS
680 PEVERLY HILL ROAD
PORTSMOUTH, N.H. 03801
Tel. (603) 427-1530
ATTN: DOUG SPARKS

COMMUNICATIONS:
FAIRPOINT COMMUNICATIONS
JOE CONSIDINE
1575 GREENLAND ROAD
GREENLAND, N.H. 03840
Tel. (603) 427-5525

DWG. NO.

DWG. NO.	DESCRIPTION
-	SUBDIVISION PLAN
-	SITE ORTHOPHOTO
C1	EXISTING CONDITIONS PLAN
C2	DEMOLITION PLAN
C3	SITE PLAN
L1-L3	LANDSCAPE PLANS
C4	UTILITY PLAN
C5	GRADING PLAN
C6	LIGHTING PLAN
T1	PASSENGER VEHICLE TURNING TEMPLATE
T2	FIRE TRUCK TURNING TEMPLATE
-	ARCHITECTURAL PLANS
D1-D5	DETAILS

PORTSMOUTH APPROVAL CONDITIONS NOTE:
ALL CONDITIONS ON THIS PLAN SET SHALL REMAIN IN EFFECT IN PERPETUITY PURSUANT TO THE REQUIREMENTS OF THE CITY OF PORTSMOUTH SITE PLAN REVIEW REGULATIONS.

APPROVED BY THE PORTSMOUTH PLANNING BOARD

CHAIRMAN

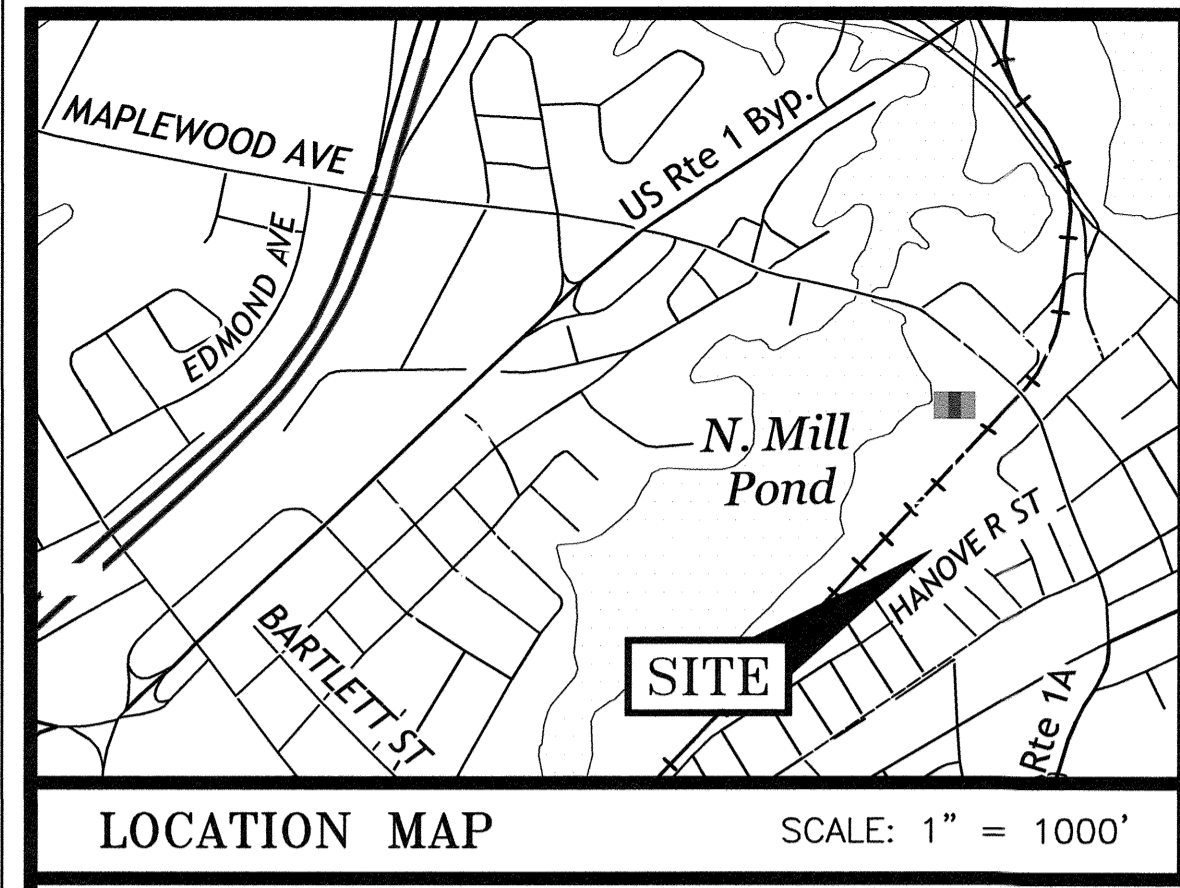
DATE

**SITE PERMIT PLANS
PROPOSED DEVELOPMENT
361 HANOVER STREET
PORTSMOUTH, N.H.**

HALEY WARD
ENGINEERING | ENVIRONMENTAL | SURVEYING
200 Griffin Rd. Unit 14
Portsmouth, New Hampshire 03801
603.430.9282
WWW.HALEYWARD.COM

PLAN SET SUBMITTAL DATE: 14 MARCH 2025

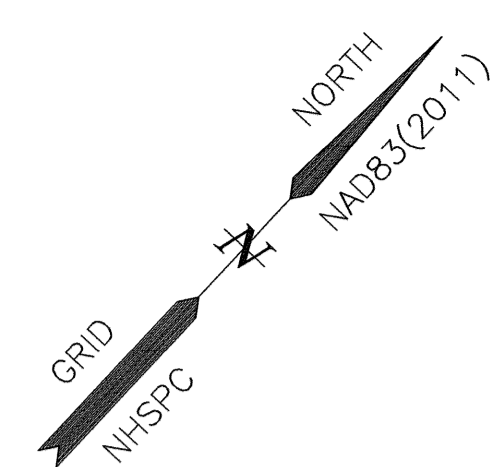
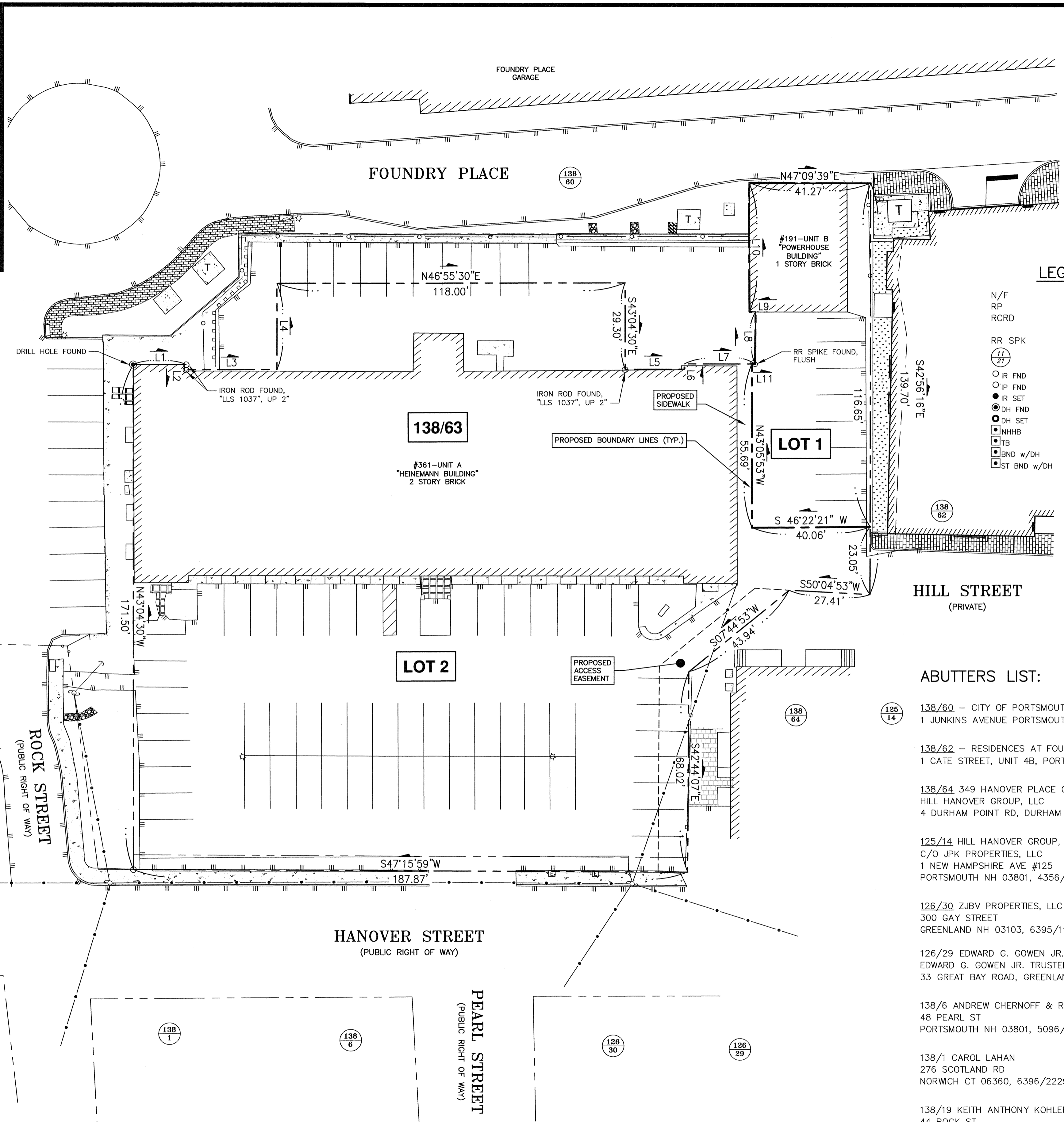
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LOCATION MAP SCALE: 1" = 1000'

PLAN REFERENCES:

- 1) "PLAN OF LAND IN PORTSMOUTH, N.H. PORTSMOUTH MFG & POWER CO. TO FRANKIE BROOKS" BY JOHN W. DURGIN. DA TED FEBRUARY 1918. RCRD PLAN 078.
- 2) "SUBDIVISION OF LAND OF PORTSMOUTH MFG. & POWER CO. PORTSMOUTH, N.H." BY JOHN W. DURGIN. DATED NOVEMBER 1925. RCRD PLAN #368.
- 3) "LAND IN PORTSMOUTH, N.H. PORTS. MFG. & POWER CO. TO HAROLD S. WOODS" BY JOHN W. DURGIN. DATED NOVEMBER 1926. RCRD PLAN #389.
- 4) "CONDOMINIUM SITE PLAN FOR HANOVER PLACE CONDOMINIUM 349 HANOVER STREET COUNTY OF ROCKINGHAM PORTSMOUTH, NH" BY MILLETTE, SPRAGUE & COLWELL, INC. DATED SEPTEMBER 28, 2004 LAST REVISED DECEMBER 20, 2005. RCRD PLAN D-33379.
- 5) "CONSOLIDATION & SUBDIVISION PLAN TAX MAP 125, LOT 17 & TAX MAP 138, LOT 62 DEER STREET ASSOCIATES BRIDGE, DEER & HILL STREETS CITY OF PORTSMOUTH COUNTY OF ROCKINGHAM STATE OF NEW HAMPSHIRE" BY AMBIT ENGINEERING, INC. DA TED JULY 2015. RCRD PLAN D-39699.
- 6) "KEARSARGE MILLS CONDOMINIUM PLANS" BY KIMBALL CHASE COMPANY, INC. DATED APRIL 15, 1986. RCRD PLAN D-14855.
- 7) "BOUNDARY LINE AGREEMENT PLAN KEARSARGE MILL CONDOMINIUMS PORTSMOUTH, N.H." BY JONES & BEACH ENGINEERS, INC. DATED APRIL 10, 1997 LAST REVISED APRIL 21, 1997. RCRD PLAN D-25421.
- 8) "AMENDED SITE PLAN, KEARSARGE MILL CONDOMINIUMS, 1 HANOVER STREET PORTSMOUTH, NH" BY KIMBALL CHASE CONSULTING ENGINEERS DATED 04-14-06 AND LAST REVISED 02-16-07. RCRD PLAN D-34716.



LEGEND

- N/F NOW OR FORMERLY
- RP RECORD OF PROBATE
- RCRD ROCKINGHAM COUNTY
- RR SPK RAILROAD SPIKE
- MAP 11/LOT 21
- IRON ROD FOUND
- IRON PIPE FOUND
- IRON ROD SET
- DRILL HOLE FOUND
- DRILL HOLE SET
- NHDOT BOUND FOUND
- TOWN BOUND
- BOUND WITH DRILL HOLE
- STONE BOUND WITH DRILL HOLE

HILL STREET (PRIVATE)

ABUTTERS LIST:

- 138/60 - CITY OF PORTSMOUTH
1 JUNKINS AVENUE PORTSMOUTH NH 03801, 5848/0666
- 138/62 - RESIDENCES AT FOUNDY PLACE, LLC
1 CATE STREET, UNIT 4B, PORTSMOUTH NH 03801, 6475/1570
- 138/64 349 HANOVER PLACE CONDOS MASTER CARD
HILL HANOVER GROUP, LLC
4 DURHAM POINT RD, DURHAM NH 03824, 4356/0010
- 125/14 HILL HANOVER GROUP, LLC.
C/O JPK PROPERTIES, LLC
1 NEW HAMPSHIRE AVE #125
PORTSMOUTH NH 03801, 4356/0010
- 126/30 ZJBV PROPERTIES, LLC
300 GAY STREET
GREENLAND NH 03103, 6395/1921
- 126/29 EDWARD G. GOWEN JR. REVOCABLE LIVING TRUST
EDWARD G. GOWEN JR. TRUSTEE
33 GREAT BAY ROAD, GREENLAND, NH 03840, 4327/2531
- 138/6 ANDREW CHERNOFF & REBEKAH CHERNOFF
48 PEARL ST
PORTSMOUTH NH 03801, 5096/0104
- 138/1 CAROL LAHAN
276 SCOTLAND RD
NORWICH CT 06360, 6396/2229
- 138/19 KEITH ANTHONY KOHLER & NICOLE GABRIELLE LAPIERRE
44 ROCK ST
PORTSMOUTH NH 03801, 4505/0807
- 138/22 SEAN G. CAUGHRAN
407 HANOVER ST
PORTSMOUTH NH 03801, 3289/1071

LENGTH TABLE

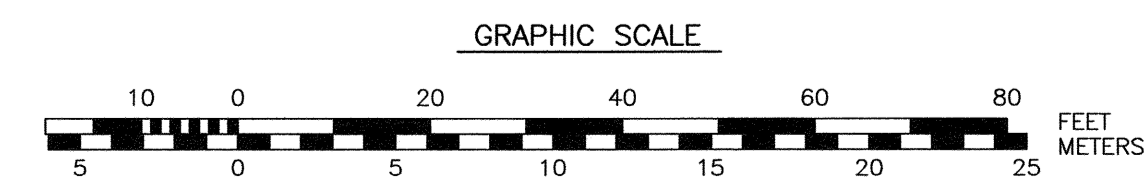
LINE	BEARING	DISTANCE
L1	N47°00'11"E	18.00'
L2	S43°03'50"E	1.78'
L3	N46°55'30"E	30.75'
L4	N43°04'30"W	29.30'
L5	N46°55'30"E	20.00'
L6	N43°04'30"W	1.80'
L7	N46°55'30"E	24.05'
L8	N42°30'12"W	17.65'
L9	S46°42'22"W	2.04'
L10	N43°17'38"W	43.88'
L11	N46°55'30"E	1.12'

"I CERTIFY THAT THIS PLAN WAS PREPARED UNDER MY DIRECT SUPERVISION, THAT IT IS THE RESULT OF A FIELD SURVEY BY THIS OFFICE AND HAS AN ACCURACY OF THE CLOSED TRAVERSE THAT EXCEEDS THE PRECISION OF 1:15,000."

John R. Chagnon 4.3.24
JOHN R. CHAGNON, LLS DATE

APPROVED BY THE PORTSMOUTH PLANNING BOARD

CHAIRMAN DATE



NOTES:
1) PARCEL IS SHOWN ON THE CITY OF PORTSMOUTH ASSESSORS MAP 138 AS LOT 63.
2) OWNERS OF RECORD:
UNIT A:
361 HANOVER STEAM FACTORY, LLC
41 INDUSTRIAL DRIVE UNIT 20
EXETER, N.H. 03833
6352/2959
UNIT B:
POWERHOUSE REALTY TRUST
C/O ADAMS DAVID B. TRUSTEE
210 GATES STREET
PORTSMOUTH, NH 03801
5419/1223

3) PARCEL IS NOT IN A SPECIAL FLOOD HAZARD AREA AS SHOWN ON FIRM PANEL 33015C0259F. EFFECTIVE JANUARY 29, 2021.

4) LOT AREAS:
EXISTING
43,245 S.F.
0.9928 AC.
PROPOSED LOT 1
4,717 S.F.
0.1083 AC.
PROPOSED LOT 2
38,528 S.F.
0.8845 AC.

5) PARCEL IS LOCATED IN CHARACTER DISTRICT 5 (CD5), NORTH END INCENTIVE OVERLAY DISTRICT (NEIOD) AND DOWNTOWN OVERLAY DISTRICT.

6) THE PURPOSE OF THIS PLAN IS TO SHOW A PROPOSED SUBDIVISION OF TAX MAP 139, LOT 63 IN PORTSMOUTH, NH INTO 2 LOTS.

7) PARCEL IS BURDENED BY THE FOLLOWING EASEMENTS:
A) ACCESS EASEMENT TO THE CITY OF PORTSMOUTH TO ALLOW ACCESS TO A PARKING AREA. SEE R.C.R.D. 4735/2971
B) ACCESS EASEMENT TO HANOVER PLACE CONDOMINIUM ASSOCIATION. THIS EASEMENT TO BE RE-DEFINED AS SHOWN HEREON.

8) THE PARCEL HAS THE BENEFIT OF A REVOCABLE LICENSE BETWEEN THE CITY OF PORTSMOUTH AND THE KEARSARGE MILL UNIT ON THE PLAN ENTITLED "KEARSARGE MILL CONDOMINIUMS HANOVER STREET, PORTSMOUTH, NH SITE PLAN AMENDMENT" PREPARED BY KIMBALL CHASE CONSULTING ENGINEERS DATED APRIL 14, 2006, LICENSE AND SITE PLAN ARE AVAILABLE WITH THE RECORDS OF THE CITY OF PORTSMOUTH, SEE ALSO PLAN REFERENCE #6.

9) PROPERTY CORNERS WILL BE SET PRIOR TO RECORDING.

NO.	DESCRIPTION	DATE
0	ISSUED FOR COMMENT	4/3/24
REVISIONS		

**SUBDIVISION PLAN
TAX MAP 138 - LOT 63**

KEARSARGE MILL UNIT OWNERS ASSOCIATION
OWNERS: 361 HANOVER STEAM FACTORY, LLC & POWERHOUSE REALTY TRUST
FOUNDRY PLACE & HANOVER STREET
CITY OF PORTSMOUTH
COUNTY OF ROCKINGHAM
STATE OF NEW HAMPSHIRE

SCALE: 1"=20'
JANUARY 2024
FB 444 PG 1
5010135.2977.01



NOTES:

1) PARCEL IS SHOWN ON THE CITY OF PORTSMOUTH ASSESSORS MAP 138 AS LOT 63.

2) APPLICANT:
 361 HANOVER STEAM FACTORY, LLC
 41 INDUSTRIAL DRIVE UNIT 20
 EXETER, NH 03833
 6352/2959

3) THE PURPOSE OF THIS PLAN IS TO SHOW SITE FEATURES AS OF FEBRUARY 2023 ON THE CITY OF PORTSMOUTH ASSESSOR'S MAP 138 LOT 63.

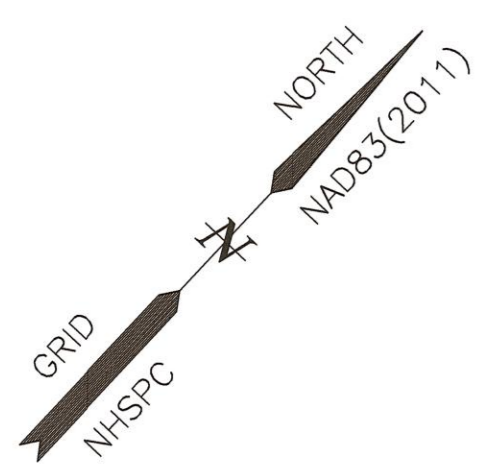
LICENSE AREA
 7,500 S.F.

138/60

#151-UNIT B
 "POWERHOUSE
 BUILDING"
 1 STORY BRICK

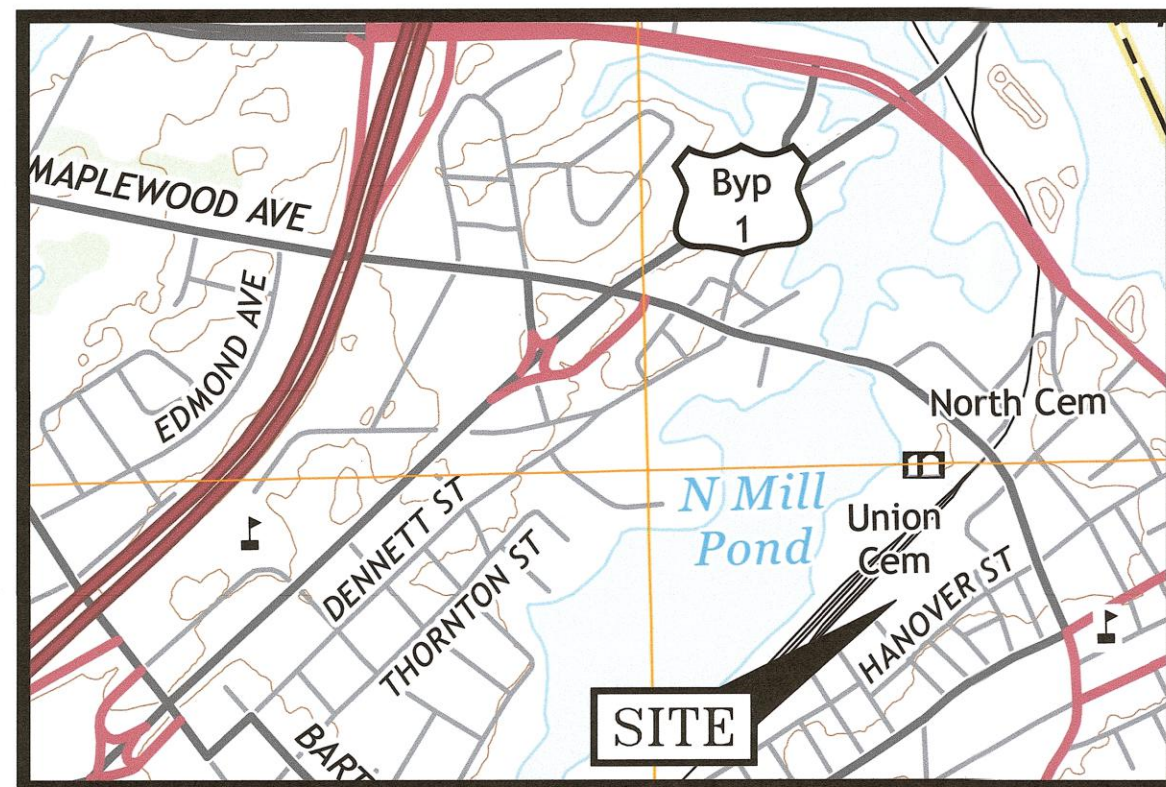
138/63

#361-UNIT A
 "HEINEMANN BUILDING"
 2 STORY BRICK



NO.	DESCRIPTION	DATE
0	ISSUED FOR COMMENT	4/3/24
REVISIONS		

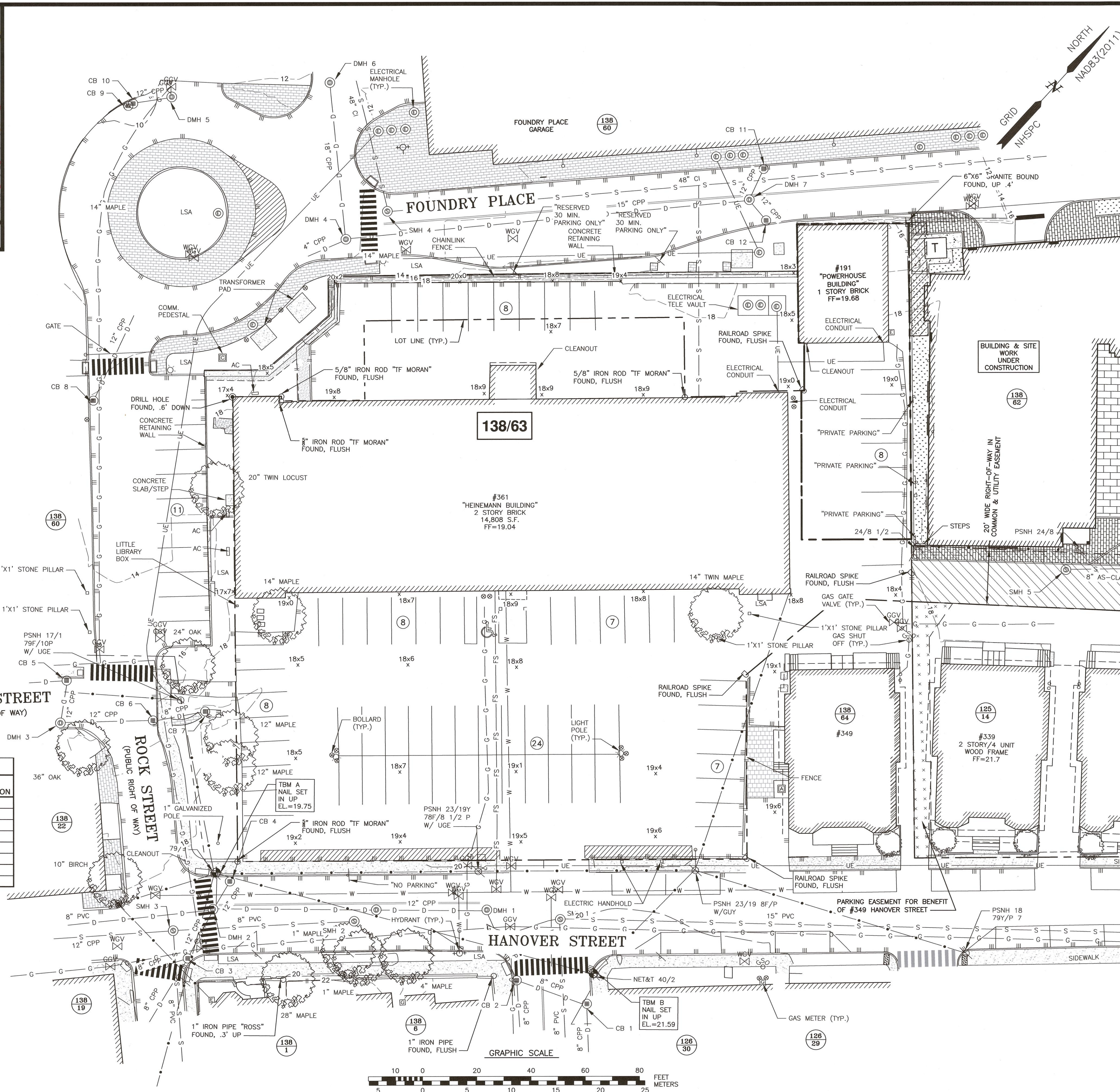
SITE ORTHOPHOTO
TAX MAP 138 - LOT 63
361 HANOVER STEAM FACTORY, LLC
FOUNDRY PLACE & ROCK STREET
CITY OF PORTSMOUTH
COUNTY OF ROCKINGHAM
STATE OF NEW HAMPSHIRE



LOCATION MAP SCALE: 1"=1,000'

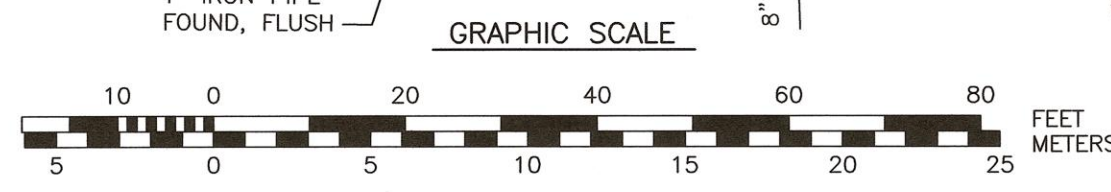
DRAINAGE STRUCTURE TABLE						
STRUCTURE	PROP/EX	RIM	PIPE SIZE/TYPE	INVERT IN	INVERT OUT	DIRECTION
CB 1	EX	20.66	8" CPP	17.51	17.46	SW
CB 2	EX	20.35	12" CPP	15.80	15.70	NW
CB 3	EX	19.29	12" CPP	16.50	15.64	NE
CB 4	EX	18.90	8" CPP	16.24	15.64	SW
CB 5	EX	15.00	12" CPP	16.29	10.00	SE
CB 6	EX	15.60	12" CPP	16.29	12.85	SW
CB 7	EX	17.43	8" CPP	13.20	16.28	NE
CB 8	EX	12.15	12" CPP	7.45	16.28	SW
CB 9&10	EX	9.76	12" CPP	5.86	7.45	NW
CB 11	EX	10.07	12" CPP	6.17	5.86	NE
CB 12	EX	10.22	12" CPP	6.92	6.17	SE
DMH 1	EX	19.81	12" CPP	15.56	15.56	SW
DMH 2	EX	19.08	12" CPP	15.03	15.03	E
DMH 3	EX	15.30	12" CPP	15.43	15.43	NW
DMH 4	EX	11.86	12" CPP	10.65	10.65	NE
DMH 5	EX	9.87	4" PVC	5.46	5.46	NW
DMH 6	EX	11.84	15" CPP	5.56	5.56	NE
DMH 7	EX	10.19	4" PVC	9.36	9.36	S
DMH 8	EX	10.19	18" CPP	6.29	6.29	SW
DMH 9	EX	10.19	12" CPP	6.44	6.44	NW
DMH 10	EX	10.19	12" CPP	6.39	6.39	E

SEWER STRUCTURE TABLE						
STRUCTURE	PROP/EX	RIM	PIPE SIZE/TYPE	INVERT IN	INVERT OUT	DIRECTION
SMH 1	EX	20.06	15" PVC	14.36	14.36	NE
SMH 2	EX	19.31	8" PVC	14.41	12.91	SE
SMH 3	EX	19.15	8" PVC	11.60	11.45	SW
SMH 4	EX	12.23	8" PVC	13.90	11.45	NE
SMH 5	EX	12.23	48" CI	-0.77	-0.77	SE
SMH 6	EX	12.23	48" CI	-0.77	-0.77	NW
SMH 7	EX	12.23	48" CI	-0.77	-0.77	NE



I CERTIFY THAT THIS PLAN WAS PREPARED UNDER MY DIRECT SUPERVISION, THAT IT IS THE RESULT OF A FIELD SURVEY BY THIS OFFICE AND HAS AN ACCURACY OF THE CLOSED TRAVERSE THAT EXCEEDS THE PRECISION OF 1:15,000'

John R. Chagnon 3.14.25
 JOHN R. CHAGNON, LLS DATE



- NOTES:**
- PARCEL IS SHOWN ON THE CITY OF PORTSMOUTH ASSESSOR'S MAP 138 AS LOT 63.
 - OWNER OF RECORD:
 361 HANOVER STEAM FACTORY, LLC
 41 INDUSTRIAL DRIVE UNIT 20
 EXETER, N.H. 03833
 6352/2959
 - PARCEL IS NOT IN A FLOOD HAZARD ZONE AS SHOWN ON FIRM PANEL 33015C0259F. JANUARY 29 2021.
 - EXISTING LOT AREA:
 38,528 S.F.
 - PARCEL IS LOCATED IN CHARACTER DISTRICT 5 (CD5), NORTH END INCENTIVE OVERLAY DISTRICT, AND DOWNTOWN OVERLAY DISTRICT.
 - DIMENSIONAL REQUIREMENTS:
 SEE ZONING ORDINANCE
 - THE PURPOSE OF THIS PLAN IS TO SHOW THE EXISTING CONDITIONS ON PORTSMOUTH ASSESSOR'S MAP 138 AS LOT 63, AS AMENDED.
 - VERTICAL DATUM IS NAVD88. BASIS OF VERTICAL DATUM IS REDUNDANT RTN GNSS OBSERVATIONS.

**SITE REDEVELOPMENT
 361 HANOVER STREET
 PORTSMOUTH, N.H.**

NO.	DESCRIPTION	DATE
0	ISSUED FOR COMMENT	03/14/25

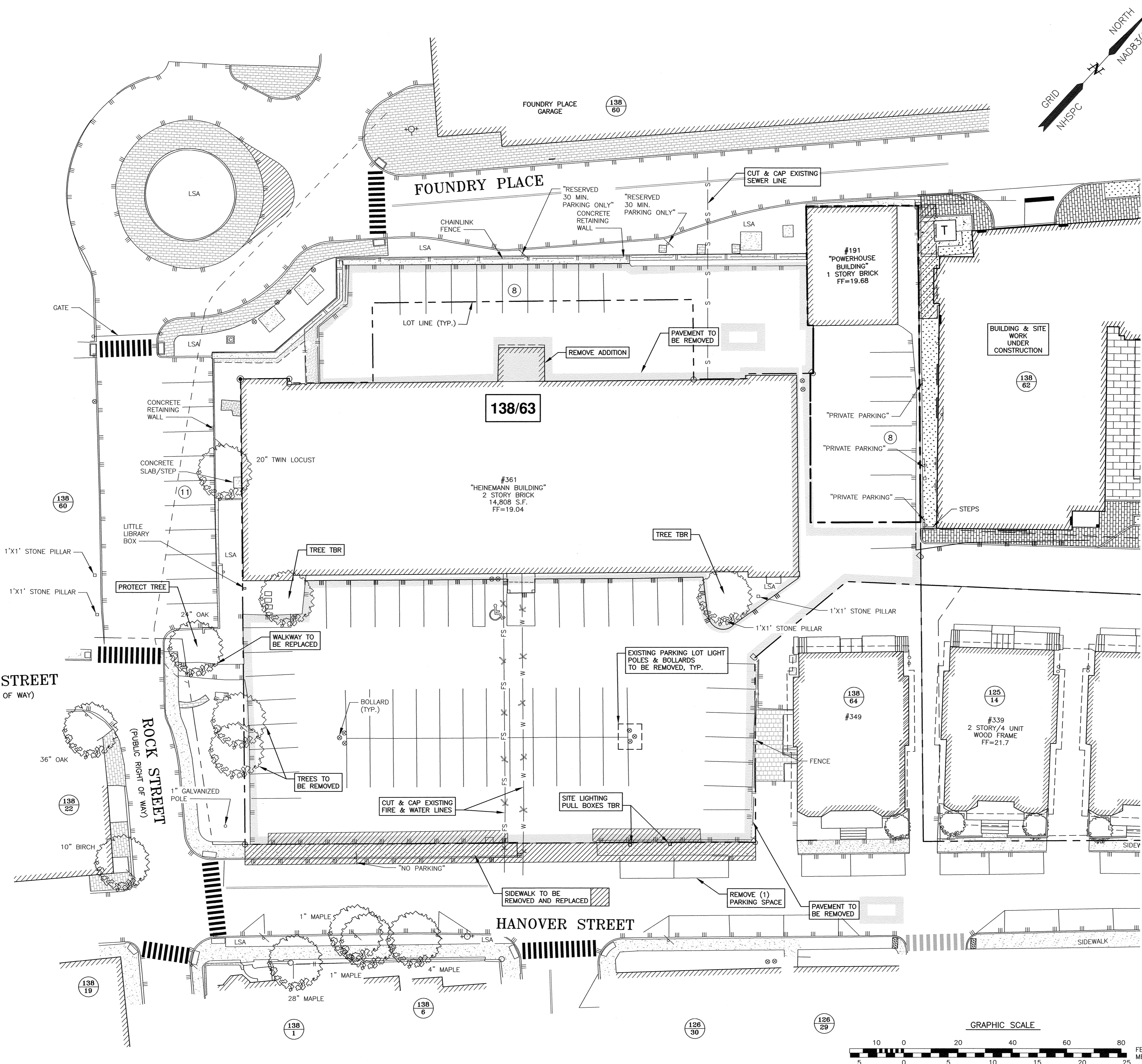


SCALE: 1"=20' JANUARY 2024

EXISTING CONDITIONS PLAN **C1**

DEMOLITION NOTES

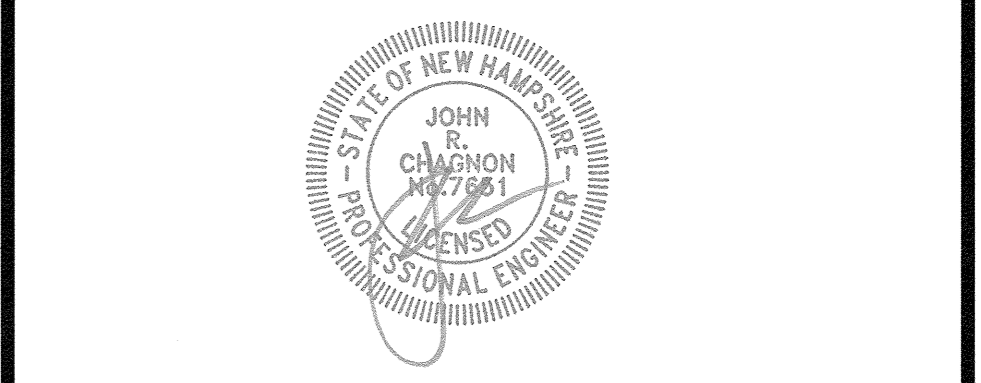
- A) THE LOCATIONS OF UNDERGROUND UTILITIES ARE APPROXIMATE AND THE LOCATIONS ARE NOT GUARANTEED BY THE OWNER OR THE DESIGNER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE UTILITIES AND ANTICIPATE CONFLICTS. CONTRACTOR SHALL REPAIR EXISTING UTILITIES DAMAGED BY THEIR WORK AND RELOCATE EXISTING UTILITIES THAT ARE REQUIRED TO BE RELOCATED PRIOR TO COMMENCING ANY WORK IN THE IMPACTED AREA OF THE PROJECT.
- B) ALL MATERIALS SCHEDULED TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTORS UNLESS OTHERWISE SPECIFIED. THE CONTRACTOR SHALL DISPOSE OF ALL MATERIALS OFF-SITE IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS, ORDINANCES AND CODES. THE CONTRACTOR SHALL COORDINATE REMOVAL, RELOCATION, DISPOSAL, OR SALVAGE OF UTILITIES WITH THE OWNER AND APPROPRIATE UTILITY COMPANY.
- C) ANY EXISTING WORK OR PROPERTY DAMAGED OR DISRUPTED BY CONSTRUCTION / DEMOLITION ACTIVITIES SHALL BE REPLACED OR REPAIRED TO THE ORIGINAL EXISTING CONDITIONS BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- D) THE CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES AND CALL DIG SAFE AT LEAST 72 HOURS PRIOR TO THE COMMENCEMENT OF ANY DEMOLITION/CONSTRUCTION ACTIVITIES.
- E) SAWCUT AND REMOVE PAVEMENT ONE FOOT OFF PROPOSED EDGE OF PAVEMENT TRENCH IN AREAS WHERE PAVEMENT IS TO BE REMOVED.
- F) IT IS THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE THEMSELVES WITH THE CONDITIONS OF ALL THE PERMIT APPROVALS.
- G) THE CONTRACTOR SHALL OBTAIN AND PAY FOR ADDITIONAL CONSTRUCTION PERMITS, NOTICES AND FEES NECESSARY TO COMPLETE THE WORK AND ARRANGE FOR AND PAY FOR ANY INSPECTIONS AND APPROVALS FROM THE AUTHORITIES HAVING JURISDICTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ADDITIONAL AND OFF-SITE DISPOSAL OF MATERIALS REQUIRED TO COMPLETE THE WORK.
- H) THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXISTING STRUCTURES, CONCRETE, UTILITIES, VEGETATION, PAVEMENT, AND CONTAMINATED SOIL WITHIN THE WORK LIMITS SHOWN UNLESS SPECIFICALLY IDENTIFIED TO REMAIN. ANY EXISTING DOMESTIC / IRRIGATION SERVICE WELLS IN THE PROJECT AREA IDENTIFIED DURING THE CONSTRUCTION AND NOT CALLED OUT ON THE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER FOR PROPER CAPPING / RE-USE.
- I) PROVIDE INLET PROTECTION BARRIERS AT ALL CATCH BASINS WITHIN CONSTRUCTION LIMITS AND MAINTAIN FOR THE DURATION OF THE PROJECT. INLET PROTECTION BARRIERS SHALL BE HIGH FLOW SILT SACK BY ACF ENVIRONMENTAL OR APPROVED EQUAL. INSPECT BARRIERS WEEKLY AND AFTER EACH RAIN OF 0.25 INCHES OR GREATER. CONTRACTOR SHALL COMPLETE A MAINTENANCE INSPECTION REPORT AFTER EACH INSPECTION. SEDIMENT DEPOSITS SHALL BE REMOVED AFTER EACH STORM EVENT OR MORE OFTEN IF WARRANTED OR FABRIC BECOMES CLOGGED. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE START OF ANY CLEARING OR DEMOLITION ACTIVITIES.
- J) THE CONTRACTOR SHALL PAY ALL COSTS NECESSARY FOR TEMPORARY PARTITIONING, BARRICADING, FENCING, SECURITY AND SAFETY DEVICES REQUIRED FOR THE MAINTENANCE OF A CLEAN AND SAFE CONSTRUCTION SITE.
- K) ANY CONTAMINATED MATERIAL REMOVED DURING THE COURSE OF THE WORK WILL REQUIRE HANDLING IN ACCORDANCE WITH NHDES REGULATIONS. CONTRACTOR SHALL HAVE A HEALTH AND SAFETY PLAN IN PLACE, AND COMPLY WITH ALL APPLICABLE PERMITS, APPROVALS, AUTHORIZATIONS, AND REGULATIONS.



- NOTES:**
- 1) THE CONTRACTOR SHALL NOTIFY DIG SAFE AT 1-888-DIG-SAFE (1-888-344-7233) AT LEAST 72 HOURS PRIOR TO COMMENCING ANY EXCAVATION ON PUBLIC OR PRIVATE PROPERTY.
 - 2) UNDERGROUND UTILITY LOCATIONS ARE BASED UPON BEST AVAILABLE EVIDENCE AND ARE NOT FIELD VERIFIED. LOCATING AND PROTECTING ANY ABOVEGROUND OR UNDERGROUND UTILITIES IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND/OR THE OWNER. UTILITY CONFLICTS SHOULD BE REPORTED AT ONCE TO THE DESIGN ENGINEER.
 - 3) CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH THE "NEW HAMPSHIRE STORMWATER MANUAL, VOLUME 3, EROSION AND SEDIMENT CONTROLS DURING CONSTRUCTION. (NHDES DECEMBER 2008).
 - 4) COORDINATE ACCESS IN STREET/ROW AREAS ADJACENT TO DEMOLITION TO INSURE SAFE PASSAGE. UTILIZE DETOURS IF NEEDED.
 - 5) EXISTING UTILITIES TO BE ABANDONED SHALL BE REMOVED TO THE UTILITY MAIN AND CAPPED PER THE UTILITY COMPANY REQUIREMENT.

**SITE REDEVELOPMENT
 361 HANOVER STREET
 PORTSMOUTH, N.H.**

0	ISSUED FOR COMMENT	03/14/25
NO.	DESCRIPTION	DATE
REVISIONS		

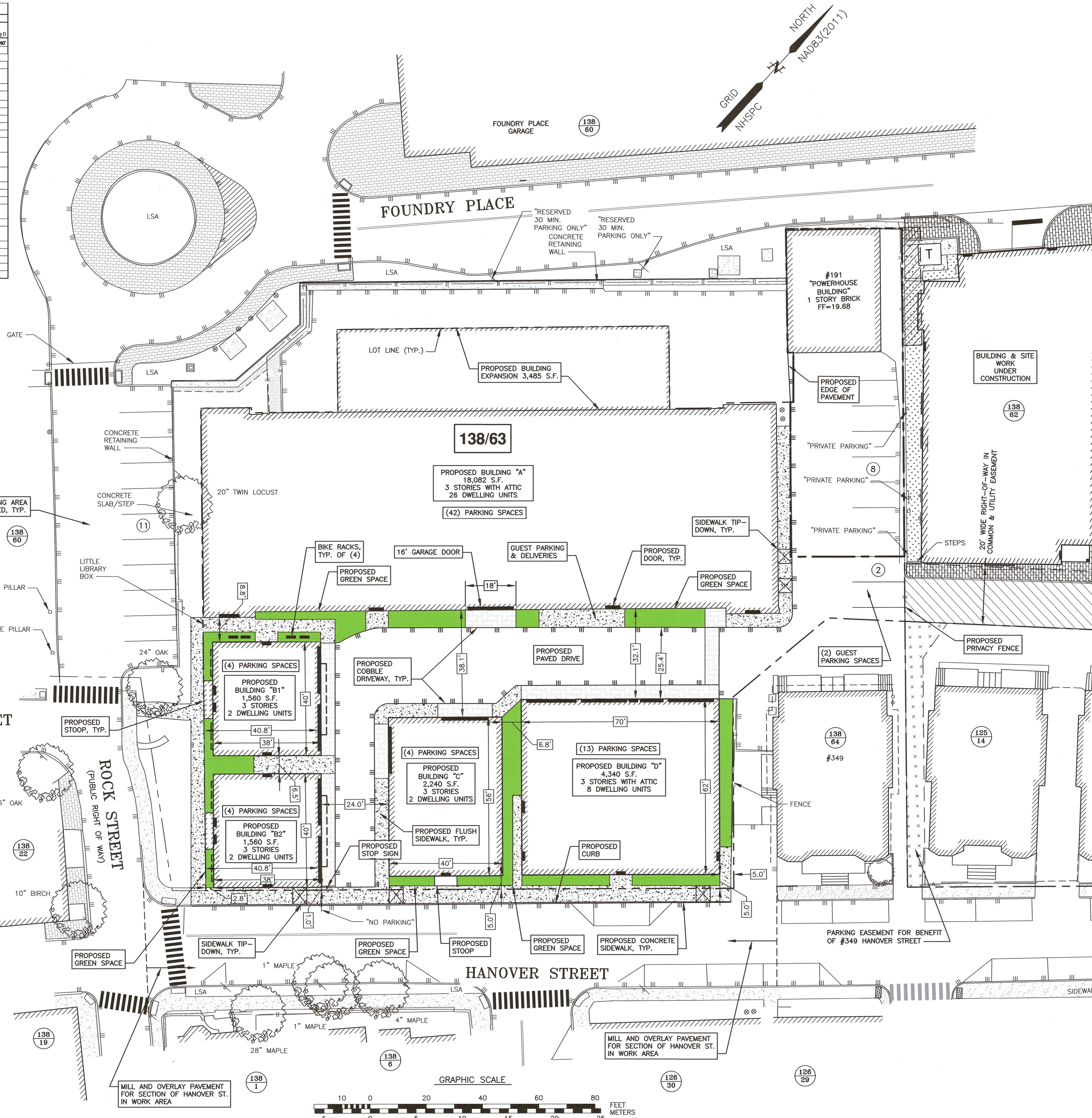


SCALE: 1"=20' JANUARY 2024

DEMOLITION PLAN

C2

ZONING DEVELOPMENT STANDARD						
CD5: CHARACTER DISTRICT 5, DOD: DOWNTOWN OVERLAY DISTRICT						
	REQUIRED	EXISTING	PROPOSED - Building A	PROPOSED - Building B1/B2	PROPOSED - Building C	PROPOSED - Building D
Height	2-3 stories 40'	2 stories/ 18' +/-	3 stories with attic/ 40'	3 stories / 36'	3 stories / 36'	3 stories with attic/ 40'
Penthouses	may exceed bldg height by 2'	N/A	N/A	N/A	N/A	N/A
Roof appearance	may exceed bldg height by 10'	<10'	<10'	No	No	<10'
Facade Types		N/A	N/A	N/A	N/A	N/A
Building Types	commercial, live-work, mixed use, flex space & community.	Commercial	Apartment	Duplex	Duplex	Apartment
Front (principle) max S/F	5'	5'	5'	5'	5'	5'
Front (secondary) max S/F	5'	5'	5'	5'	5'	5'
Side S/F	NR	NR	NR	NR	NR	NR
Rear yard S/F	5'	N/A	N/A	>5'	>5'	>5'
Front lotline buildout	80% min	100%	100%	80%	80%	80%
Lot area (S)	NR	N/A	N/A	N/A	N/A	N/A
LOT area per dwelling	NR	N/A	N/A	N/A	N/A	N/A
Building coverage, maximum	95%	38%	47%	8%	6%	5.0%
Maximum building footprint	20,000	14,808	15,082	3,120	2,240	4,340
Ground floor area per use, max	15,000	14,808	<15,000	3,120	2,240	4,340
Open space, minimum	5%	<5%	>5%	>5%	>5%	>5%
Permitted uses		Commercial	Residential	Residential	Residential	Residential
Block length, max (ft)	225	205'	205'	40'	40'	70'
Facade modulation length, max (ft)	100	205'	65'	82'	40'	72'
Entrance spacing, max (ft)	50	>50'	50'	20'	20'	<50'
Floor height above sidewalk, max	36"	0'	0'	15"	15"	36"
Ground story height, min	12'	10'	10.5'	12'	12'	12'
Second story height, min	10'	10'	10.5'	11'	11'	11'
Glazing, shopfront, min	70%	N/A	N/A	N/A	N/A	N/A
Glazing, other	20%-50%	>20%	>20%	>20%	>20%	>20%
Roof types	flat, gable, hip, gambrel, mansard	Flat	Mansard	Hip	Hip	Mansard



- NOTES:**
- PARCEL IS SHOWN ON THE CITY OF PORTSMOUTH ASSESSOR'S MAP 138 AS LOT 63.
 - APPLICANT:
361 HANOVER STEAM FACTORY, LLC
41 INDUSTRIAL DRIVE UNIT 20
EXETER, N.H. 03833
 - PARCEL IS NOT IN A FLOOD HAZARD ZONE AS SHOWN ON FIRM PANEL 33015C0259F. JANUARY 29 2021.

- PROPOSED LOT AREAS:**
- LOT 138/63
38,528 S.F. ±
0.8845 AC
 - LOT 138/63-1
4,717 S.F.
0.1083 AC
- PARCEL IS LOCATED IN CHARACTER DISTRICT 5 (CD5), NORTH END INCENTIVE OVERLAY, AND DOWNTOWN OVERLAY DISTRICT.
- DIMENSIONAL REQUIREMENTS:**
*SEE PORTSMOUTH ZONING ORDINANCE AND TABLE.
- MINIMUM LOT AREA: NR
SETBACKS:
FRONT: 5 FEET (MAXIMUM)
SIDE: NR
REAR: 5 FEET
MAXIMUM BUILDING COVERAGE: 95%
MINIMUM OPEN SPACE: 5%

- THE PURPOSE OF THIS PLAN IS TO SHOW THE PROPOSED SITE DEVELOPMENT ON ASSESSOR'S MAP 138 LOT 63.
- VERTICAL DATUM IS NAVD88. BASIS OF VERTICAL DATUM IS REDUNDANT RTN GNSS OBSERVATIONS.
- PROPOSED USE:
BUILDING A: 26 UNITS
BUILDING B: 2 UNITS
BUILDING B1: 2 UNITS
BUILDING C: 2 UNITS
BUILDING D: 8 UNITS
TOTAL: 40 UNITS
- PARKING SPACES PROVIDED:
BUILDING A: 42 SPACES
BUILDING B: 4 SPACES
BUILDING B1: 4 SPACES
BUILDING C: 4 SPACES
BUILDING D: 13 SPACES
GUEST: 3 SPACES
TOTAL: 72 SPACES

**SITE REDEVELOPMENT
361 HANOVER STREET
PORTSMOUTH, N.H.**

NO.	DESCRIPTION	DATE
0	ISSUED FOR COMMENT	03/14/25
REVISIONS		

STATE OF NEW HAMPSHIRE
No. 738
JOHN R. CHAGNON
LICENSED PROFESSIONAL ENGINEER
SIGNATURE

STATE OF NEW HAMPSHIRE
No. 738
JOHN R. CHAGNON
LICENSED PROFESSIONAL ENGINEER
SIGNATURE

SCALE: 1"=20' JANUARY 2024

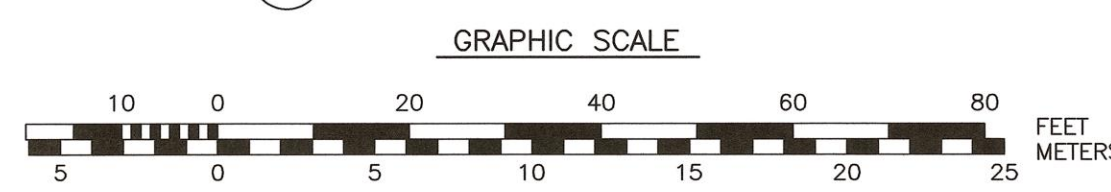
SITE PLAN **C3**

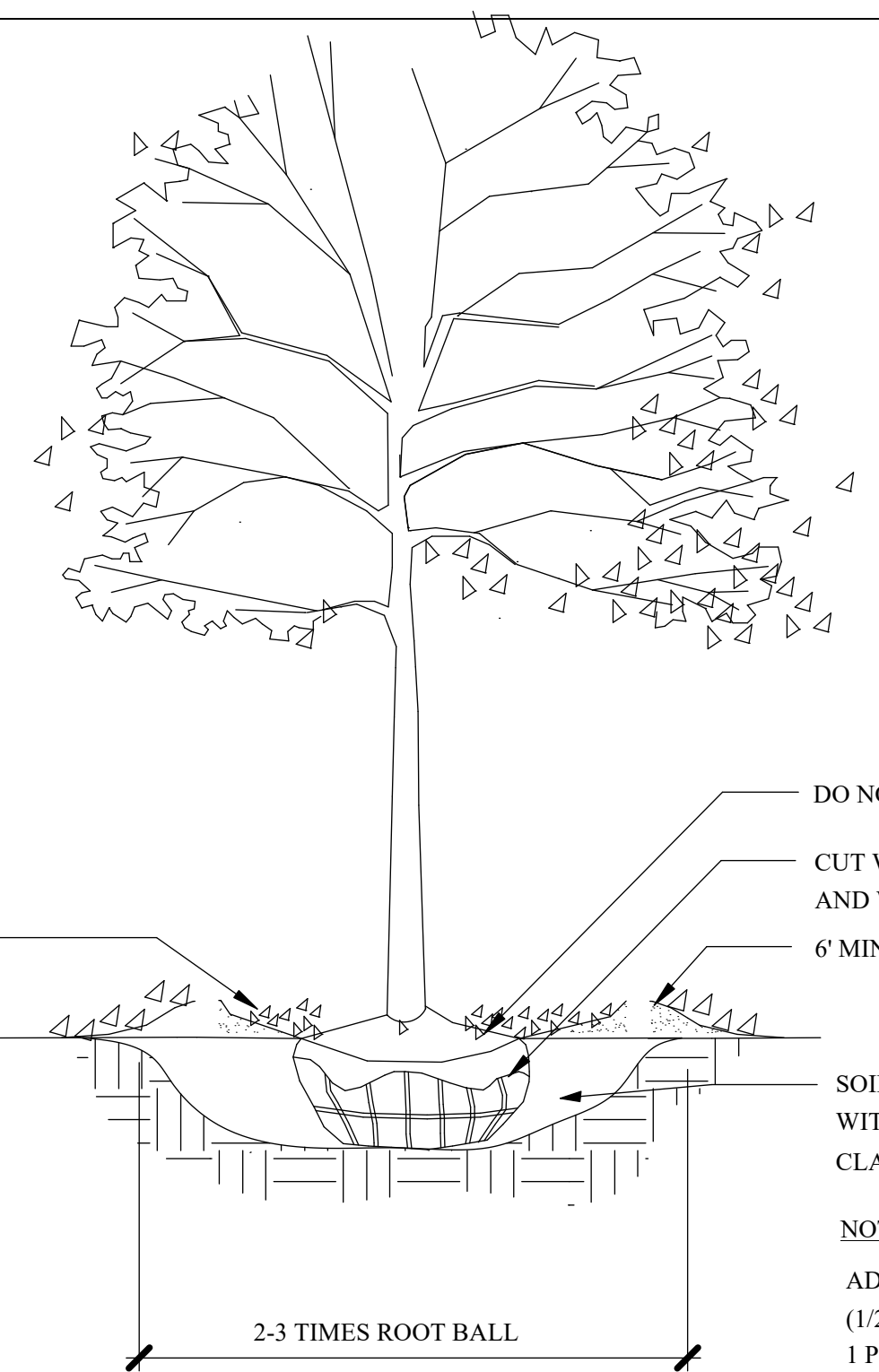
THIS SITE PLAN SHALL BE RECORDED IN THE ROCKINGHAM COUNTY REGISTRY OF DEEDS.

ALL IMPROVEMENTS SHOWN ON THIS SITE PLAN SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE PLAN BY THE PROPERTY OWNER AND ALL FUTURE PROPERTY OWNERS. NO CHANGES SHALL BE MADE TO THIS SITE PLAN WITHOUT THE EXPRESS APPROVAL OF THE PORTSMOUTH PLANNING DIRECTOR.

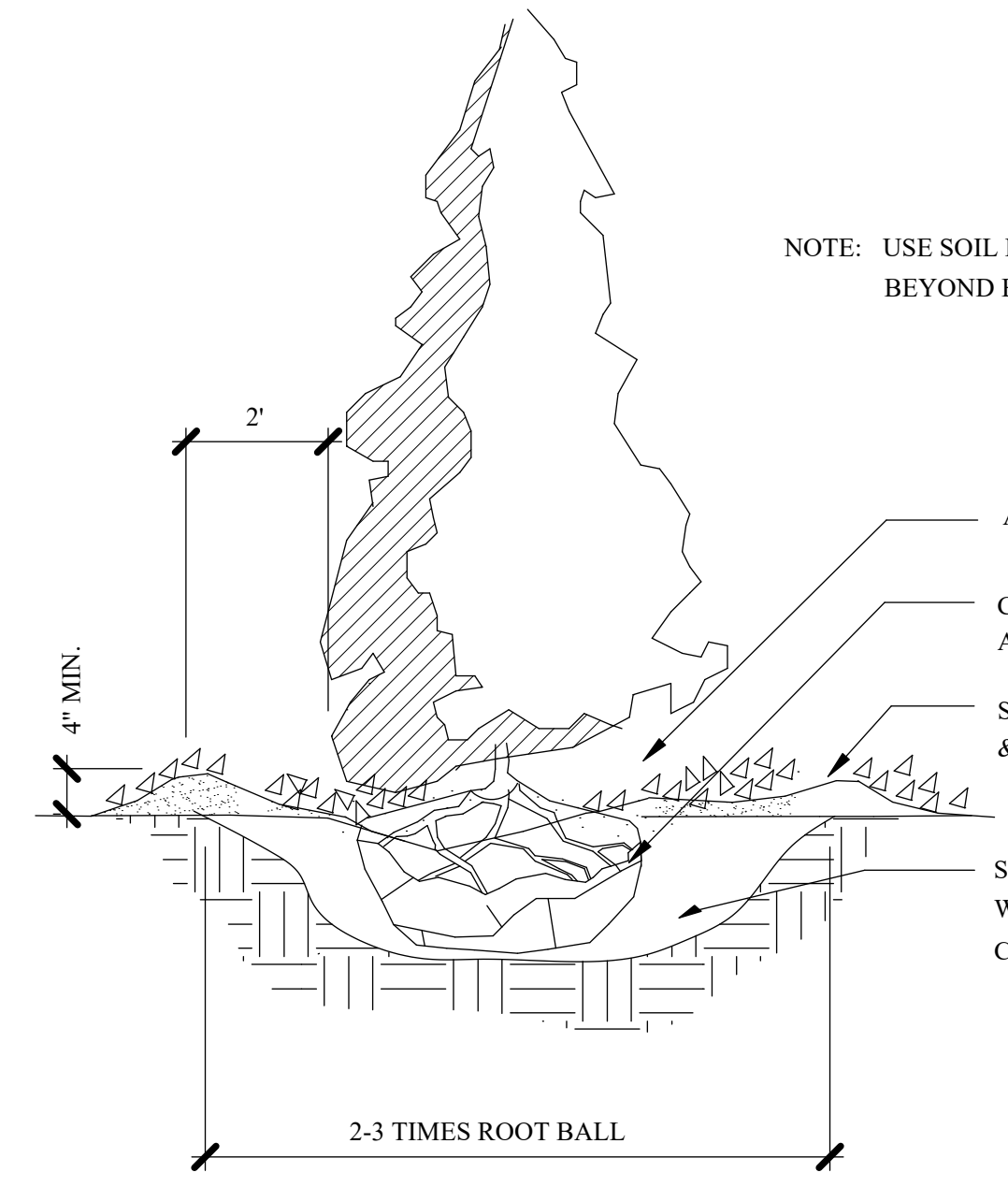
APPROVED BY THE PORTSMOUTH PLANNING BOARD

CHAIRMAN _____ DATE _____

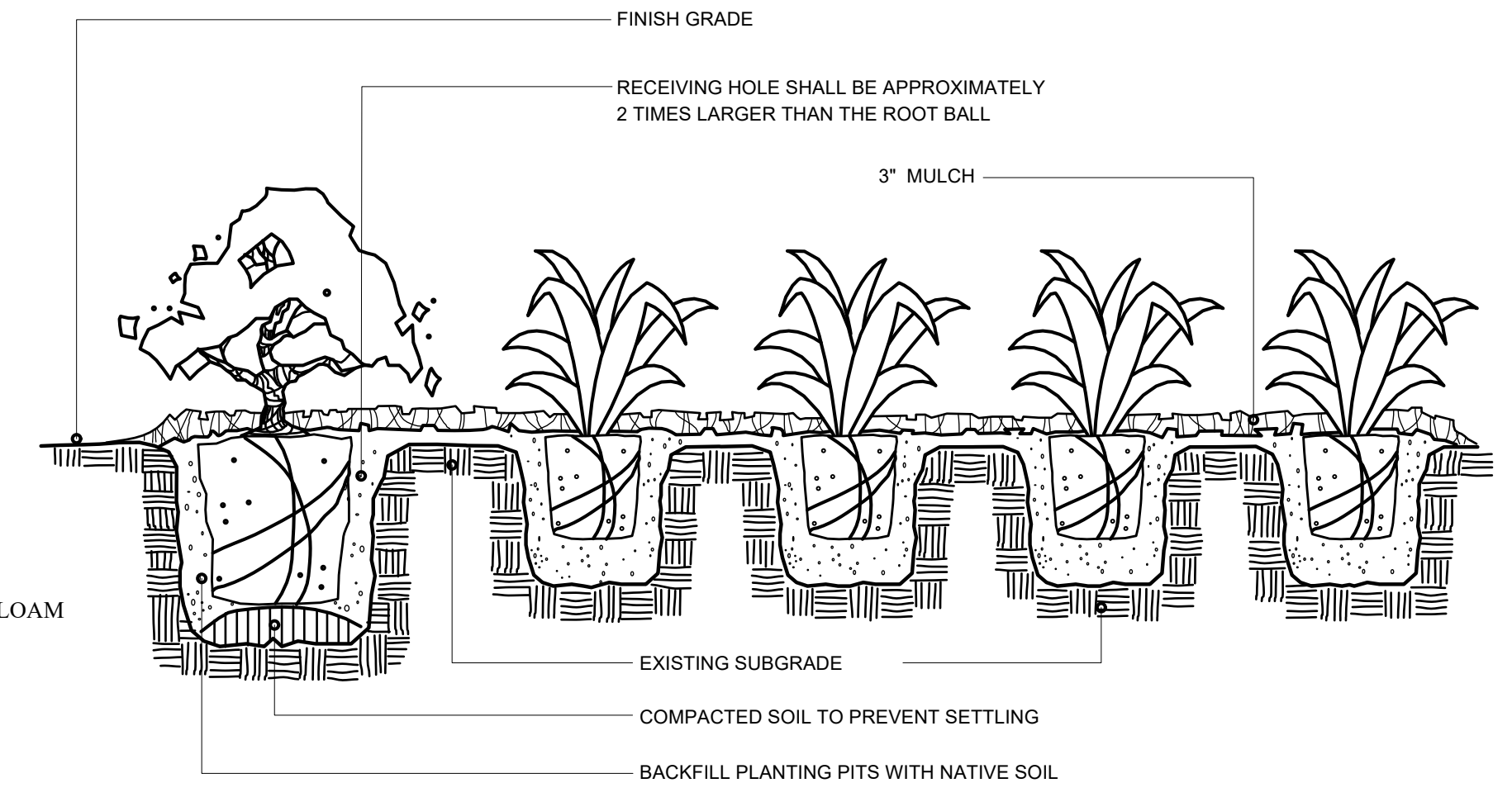




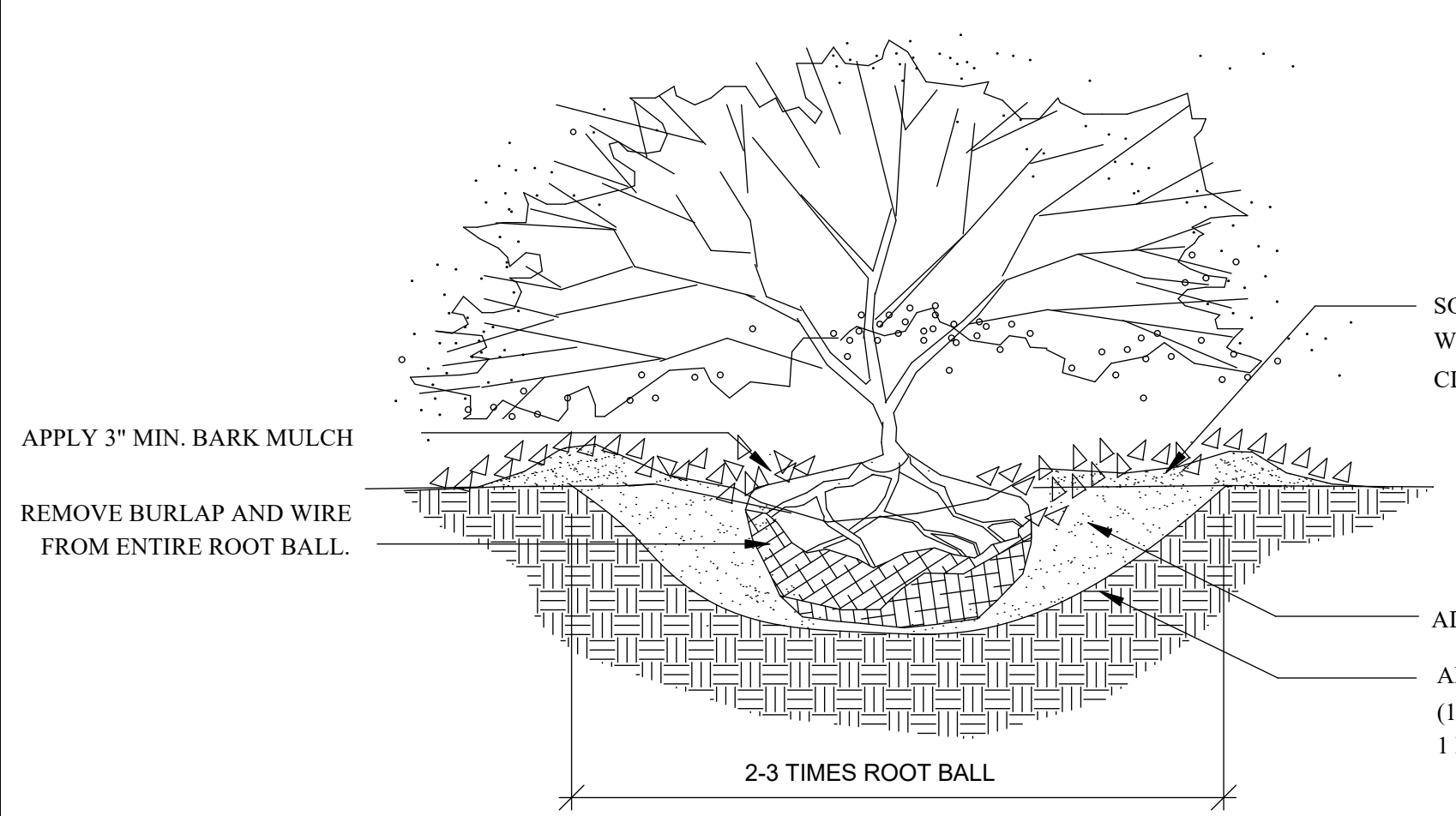
1
L-2
TREE PLANTING - 2"+ CAL.
SCALE: NTS



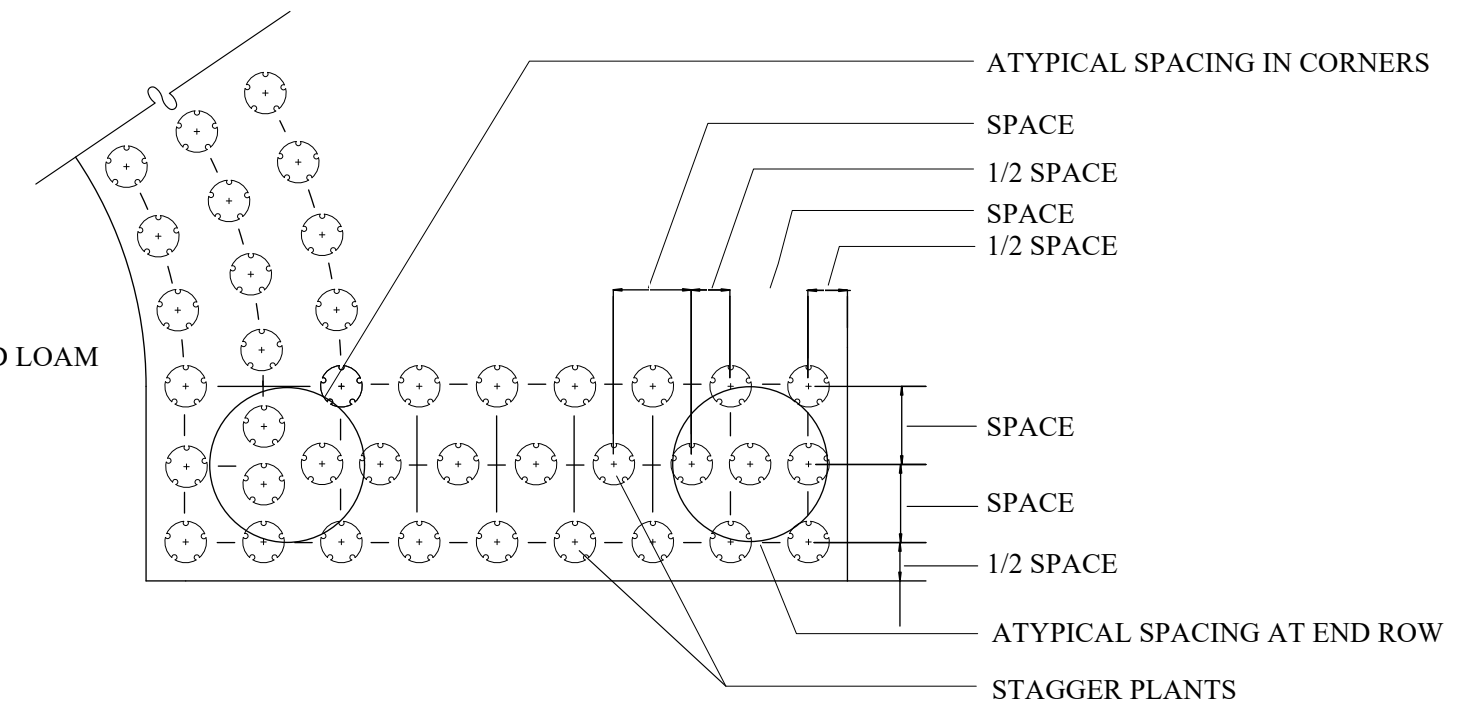
2
L-2
PYRAMIDAL EVERGREEN TREE PLANTING
SCALE: NTS



3
L-2
SHRUB/GROUND COVER PLANTING DETAIL
SCALE: NTS



4
L-2
B&B SHRUB PLANTING
SCALE: NTS

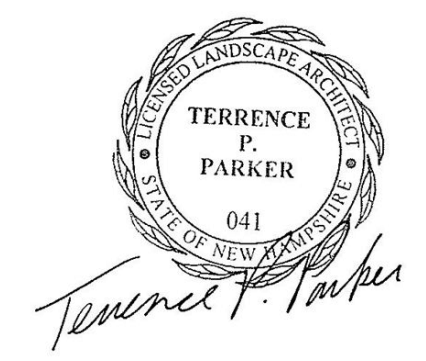


5
L-2
GROUND COVER SPACING DETAIL
SCALE: NTS

NOTES:
1. PLACE PLANTS IN BED AS SHOWN, SPACING AS SPECIFIED IN PLANT SCHEDULE.
2. GROUND COVER SHALL BE TRIANGULAR SPACED IN ROWS PARALLEL TO STRAIGHT EDGES AND SHALL BE EVENLY SPACED IN ROWS PARALLEL TO CURVE EDGES.

LANDSCAPE NOTES:

1. THE CONTRACTOR SHALL LOCATE AND VERIFY THE EXISTENCE OF ALL UTILITIES PRIOR TO STARTING WORK.
2. THE CONTRACTOR SHALL SUPPLY ALL PLANT MATERIALS IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTINGS SHOWN ON THE DRAWINGS.
3. ALL MATERIAL SHALL CONFORM TO THE GUIDELINES ESTABLISHED BY THE CURRENT AMERICAN STANDARD FOR NURSERY STOCK PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
4. ALL PLANT SUBSTITUTIONS MUST BE APPROVED BY THE LANDSCAPE ARCHITECT.
5. ALL PLANT MATERIALS SHALL BE EXACTLY AS SPECIFIED BY THE LANDSCAPE ARCHITECT. IF PLANT SPECIES CULTIVARS ARE FOUND TO VARY FROM THAT SPECIFIED AT ANY TIME DURING THE GUARANTEE PERIOD, THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO HAVE THE CONTRACTOR REPLACE THAT PLANT MATERIAL. THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO REJECT ANY PLANT DELIVERED TO THE SITE FOR AESTHETIC REASONS BEFORE PLANTING. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR THE QUALITY FOR ALL THE PLANTS.
6. PLANTS SHALL BE SUBJECT TO INSPECTION AND APPROVAL AT THE PLACE OF GROWTH, UPON DELIVERY OR AT THE JOB SITE WHILE WORK IS ON-GOING TO CONFORMITY TO SPECIFIED QUALITY, SIZE AND VARIETY.
7. PLANTS FURNISHED IN CONTAINERS SHALL HAVE THE ROOTS WELL ESTABLISHED IN THE SOIL MASS AND SHALL HAVE AT LEAST ONE (1) GROWING SEASON. ROOT-BOUND PLANTS OR INADEQUATELY SIZED CONTAINERS TO SUPPORT THE PLANT MAY BE DEEMED UNACCEPTABLE.
8. NO PLANT SHALL BE PUT IN THE GROUND BEFORE GRADING HAS BEEN FINISHED AND APPROVED BY THE LANDSCAPE ARCHITECT.
9. ALL PLANTS SHALL BE INSTALLED AND DETAILED PER PROJECT SPECIFICATIONS.
10. ALL PLANTS SHALL BE WATERED THOROUGHLY TWICE DURING THE FIRST 24-HOUR PERIOD AFTER PLANTING. ALL PLANTS SHALL BE WATERED WEEKLY, OR MORE OFTEN IF NECESSARY, DURING THE FIRST GROWING SEASON.
11. ALL PLANTS SHALL BE GUARANTEED BY THE CONTRACTOR FOR NOT LESS THAN ONE FULL YEAR FROM THE TIME OF PROVISIONAL ACCEPTANCE. DURING THIS TIME, THE OWNER SHALL MAINTAIN ALL PLANT MATERIALS IN THE ABOVE MANNER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSPECT THE PLANTS TO ENSURE PROPER CARE. IF THE CONTRACTOR IS DISSATISFIED WITH THE CARE GIVEN, HE SHALL IMMEDIATELY, AND IN SUFFICIENT TIME TO PERMIT THE CONDITION TO BE RECTIFIED, NOTIFY THE LANDSCAPE ARCHITECT IN WRITING OR OTHERWISE FORFEIT HIS CLAIM. LANDSCAPE CONTRACTOR SHALL PRUNE PLANTINGS OF DEAD LIMBS OR TWIGS DURING THE FIRST YEAR OF GROWTH.
12. FINAL ACCEPTANCE BY THE LANDSCAPE ARCHITECT WILL BE MADE UPON THE CONTRACTOR'S REQUEST AFTER ALL CORRECTIVE WORK HAS BEEN COMPLETED.
13. LANDSCAPE CONTRACTOR SHOULD REPLACE DEAD PLANTINGS IMMEDIATELY UPON OWNER DIRECTION WITHIN THE WARRANTY PERIOD AND AGAIN AT THE END OF THE GUARANTEE PERIOD, THE CONTRACTOR SHALL HAVE REPLACED ANY PLANT MATERIAL THAT IS MISSING, NOT TRUE TO SIZE AS SPECIFIED, THAT HAVE DIED, THAT HAVE LOST THEIR NATURAL SHAPE DUE TO DEAD BRANCHES, EXCESSIVE PRUNING OR INADEQUATE OR IMPROPER CARE, OR THAT ARE, IN THE OPINION OF THE LANDSCAPE ARCHITECT, IN UNHEALTHY OR UNSIGHTLY CONDITION.
14. ALL LANDSCAPE AREAS TO BE GRASS COMMON TO REGION EXCEPT FOR INTERIOR LANDSCAPED ISLANDS OR WHERE OTHER PLANT MATERIAL IS CALLED FOR.
15. ALL TREES AND SHRUBS TO BE PLANTED IN MULCH BEDS WITH DEFINED AND CUT EDGES TO SEPARATE TURF GRASS AREAS.
16. FOR ANY LANDSCAPE AREA SO DESIGNATED TO REMAIN, WHETHER ON OR OFF-SITE, REMOVE WEEDS, ROCKS, CONSTRUCTION ITEMS, ETC., THEN APPLY GRASS SEED OR PINE BARK MULCH AS DEPICTED ON PLANS.
17. LANDSCAPE CONTRACTOR SHALL FEED AND PRUNE EX. TREES, ON OR JUST OFF SITE, THAT HAVE EXPERIENCED ROOT BASE INTRUSION OR DAMAGE DURING CONSTRUCTION IMMEDIATELY AND FOR THE DURATION OF THE WARRANTY PERIOD AT THE DIRECTION OF THE LANDSCAPE ARCHITECT.
18. EXISTING TREES TO REMAIN SHALL BE PROTECTED WITH TEMPORARY SNOW FENCING AT THE EDGE OF THE EX. TREE CANOPY THE CONTRACTOR SHALL NOT STORE VEHICLES OR MATERIALS WITHIN THE LANDSCAPED AREAS. ANY DAMAGE TO EXISTING TREES, SHRUBS OR LAWN SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
19. ALL MULCH AREAS SHALL RECEIVE A 3" LAYER OF SHREDDED PINE BARK MULCH.
20. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH PROJECT SPECIFICATIONS.



361 HANOVER
361 HANOVER STREET
PORTSMOUTH, NH

Project Title

Landscape Architect

Scale

NTS

REV. DATE DESCRIPTION

NO. DATE ISSUE NOTE

Project Manager

Date

Project ID

Sheet Title

LANDSCAPE DETAILS

Sheet No.

L-2

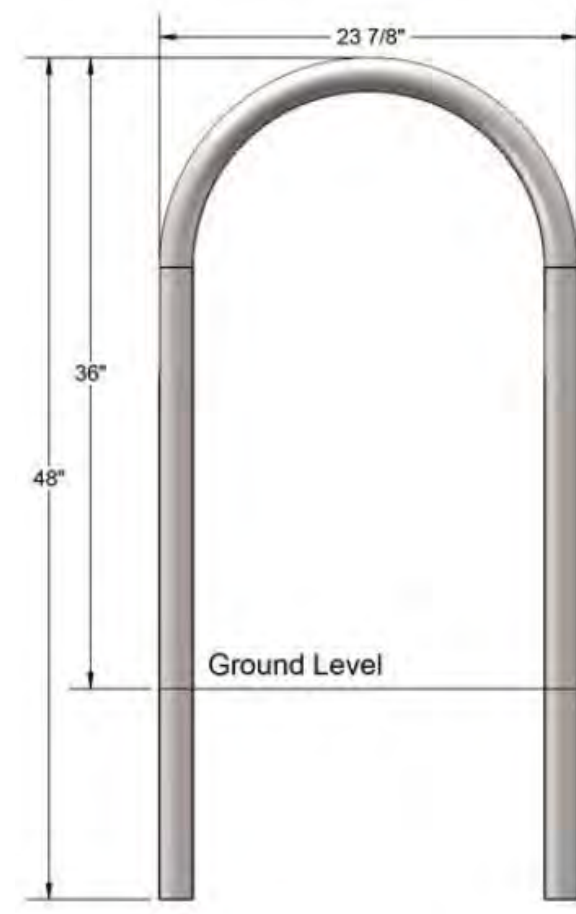


U Bike Rack – Inground Mount

Model #: 622br205-1



Side View



Front View

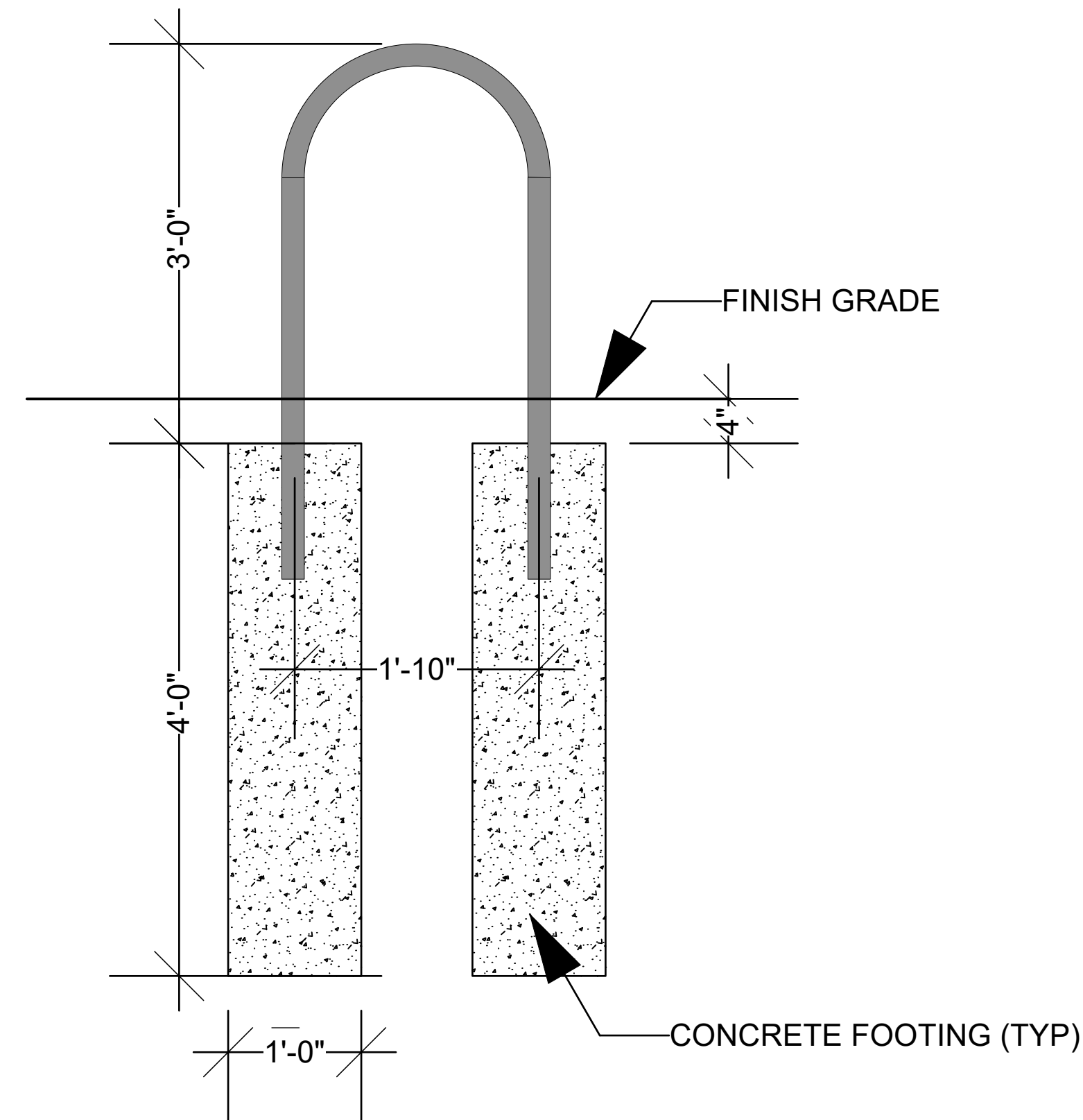


U Bike Rack – Inground Mount

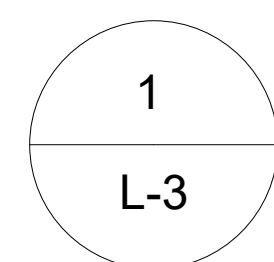
Model #: 622br205

Safety Warnings & Equipment Inspection:

- ❖ Owners and installers please note these safety warnings and make use of this checklist on a regular basis.
- ❖ Follow installation instructions when erecting equipment.
- ❖ Ground surfaces around equipment should be restored as needed. Concrete footings should never be exposed. Surface depth should comply with ASTM and CPSC specifications.
- ❖ Check for and repair damage caused by wear or vandalism, a major factor in injury causing situation.
- ❖ All protruding bolts should be covered or cut off and finished smooth. Sharp edges on pipes should be capped or removed. Check for bent, broken, or severely worn pipe, and replace.
- ❖ All equipment should be free of rust and repainted whenever necessary to deter rusting.
- ❖ We provide our customers with layout sheets and installation instructions. Please keep on file the specifications sheet that contains the listing of every part used.
- ❖ Never add components not intended for use with this product
- ❖ Regular maintenance is necessary in this and all park and recreational equipment to ensure the safety of the user.
- ❖ Note: Proper maintenance of equipment requires regular tightening of all bolts, nuts, and setscrews.
- ❖ Note: Regular checking of all parts, castings, etc. should be made. If a part is broken or worn, it should be replaced immediately.
- ❖ Check to be sure all fittings are tight, and that bars and pipes do not move.
- ❖ Replace all worn S-hooks. S-hooks must be completely closed. Failure to close S-hooks can result in serious injury to the user. NEVER reuse S-hooks.
- ❖ Test for free movement of swing hanger and other moving attached parts.
- ❖ Check for worn chains and replace them
- ❖ A soft resilient surface should be placed under all swings extending at least twice the height of the top rail both front and back.



PARK WAREHOUSE U BIKE RACK OR EQUAL



BIKE RACK DETAIL
SCALE: 1"=1'-0"



361 HANOVER
361 HANOVER STREET
PORTSMOUTH, NH

Project Title

Landscape Architect

Scale

1"=1'-0"

REV. DATE DESCRIPTION

NO. DATE ISSUE NOTE

Project Manager

Drawn By

Date

Revised By

Project ID

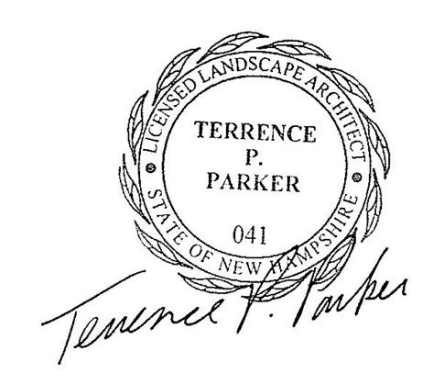
361 HANOVER ST.

Sheet Title

LANDSCAPE DETAILS

Sheet No.

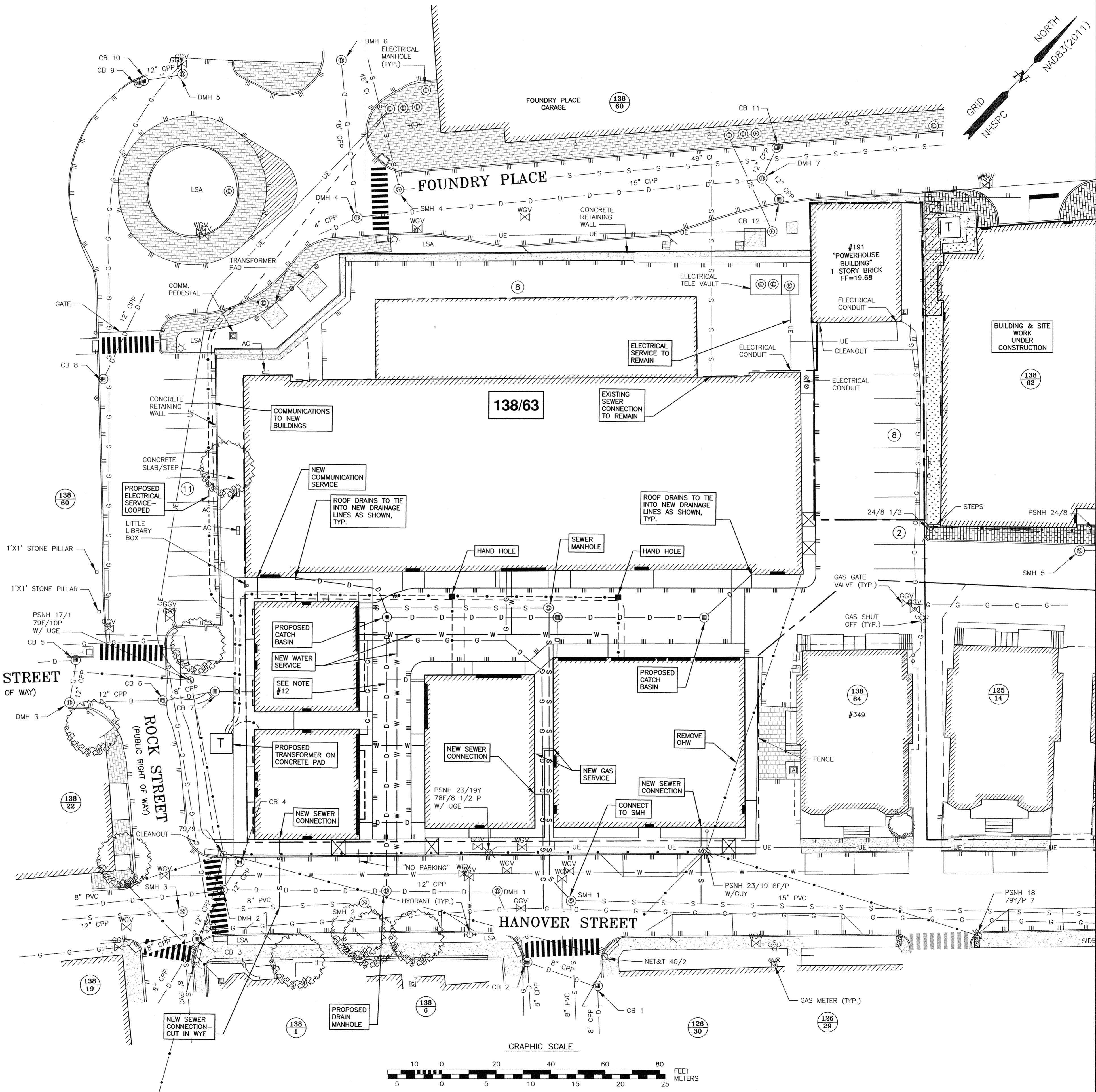
L-3



UTILITY NOTES:

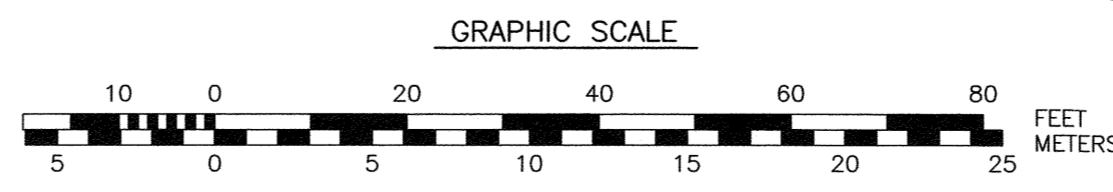
- 1) SEE EXISTING CONDITIONS PLAN FOR BENCHMARK INFORMATION.
- 2) COORDINATE ALL UTILITY WORK WITH APPROPRIATE UTILITY.
- 3) CONTRACTOR SHALL COORDINATE ALL ELECTRIC WORK INCLUDING BUT NOT LIMITED TO: CONDUIT CONSTRUCTION, MANHOLE CONSTRUCTION, UTILITY POLE CONSTRUCTION, OVERHEAD WIRE RELOCATION, AND TRANSFORMER CONSTRUCTION WITH POWER COMPANY.
- 4) ALL WATER MAIN INSTALLATIONS SHALL BE CLASS 52, POLYWRAPPED, CEMENT LINED DUCTILE IRON PIPE.
- 5) ALL WATERMAIN INSTALLATIONS SHALL BE PRESSURE TESTED AND CHLORINATED AFTER CONSTRUCTION AND BEFORE ACTIVATING THE SYSTEM. CONTRACTOR SHALL COORDINATE WITH THE CITY OF PORTSMOUTH.
- 6) ALL SEWER PIPE SHALL BE PVC SDR 35 UNLESS OTHERWISE STATED.
- 7) ALL WORK WITHIN CITY R.O.W. SHALL BE COORDINATED WITH CITY OF PORTSMOUTH.
- 8) CONTRACTOR SHALL MAINTAIN UTILITY SERVICES TO ABUTTING PROPERTIES THROUGHOUT CONSTRUCTION.
- 9) ANY CONNECTION TO EXISTING WATERMAIN SHALL BE CONSTRUCTED BY THE CITY OF PORTSMOUTH.
- 10) EXISTING UTILITIES TO BE REMOVED SHALL BE CAPPED AT THE MAIN AND MEET THE DEPARTMENT OF PUBLIC WORKS STANDARDS FOR CAPPING OF WATER AND SEWER SERVICES.
- 11) ALL ELECTRICAL MATERIAL WORKMANSHIP SHALL CONFORM TO THE NATIONAL ELECTRIC CODE, LATEST EDITION, AND ALL APPLICABLE STATE AND LOCAL CODES.
- 12) THE EXACT LOCATION OF NEW UTILITY SERVICES AND CONNECTIONS SHALL BE COORDINATED WITH BUILDING DRAWINGS AND UTILITY COMPANIES.
- 13) ADJUST ALL MANHOLES, CATCH BASINS, CURB BOXES, ETC. WITHIN LIMITS OF WORK TO FINISH GRADE.
- 14) ALL UNDERGROUND CONDUITS SHALL HAVE NYLON PULL ROPES TO FACILITATE PULLING CABLES.
- 15) THE CONTRACTOR SHALL OBTAIN, PAY FOR, AND COMPLY WITH ALL REQUIRED PERMITS, ARRANGE FOR ALL INSPECTIONS, AND SUBMIT COPIES OF ACCEPTANCE CERTIFICATED TO THE OWNER PRIOR TO THE COMPLETION OF PROJECT.
- 16) THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL MANHOLES, BOXES, FITTINGS, CONNECTORS, COVER PLATES AND OTHER MISCELLANEOUS ITEMS NOT NECESSARILY DETAILED IN THESE DRAWINGS TO RENDER INSTALLATION OF UTILITIES COMPLETE AND OPERATIONAL.
- 17) CONTRACTOR SHALL PROVIDE EXCAVATION, BEDDING, BACKFILL AND COMPACTION FOR NATURAL GAS SERVICES.
- 18) A 10-FOOT MINIMUM EDGE TO EDGE HORIZONTAL SEPARATION SHALL BE PROVIDED BETWEEN ALL WATER AND SANITARY SEWER LINES. AN 18-INCH MINIMUM OUTSIDE TO OUTSIDE VERTICAL SEPARATION SHALL BE PROVIDED AT ALL WATER/SANITARY SEWER CROSSINGS WATER ABOVE SEWER.
- 19) SAWCUT AND REMOVE PAVEMENT AND CONSTRUCT PAVEMENT TRENCH PATCH FOR ALL PROPOSED UTILITIES LOCATED IN EXISTING PAVEMENT AREAS TO REMAIN.
- 20) GATE VALVES, FITTINGS, ETC. SHALL MEET THE REQUIREMENTS OF THE CITY OF PORTSMOUTH.
- 21) COORDINATE TESTING OF SEWER CONSTRUCTION WITH THE CITY OF PORTSMOUTH.
- 22) ALL SEWER PIPES WITH LESS THAN 6' COVER SHALL BE INSULATED.

- NOTES:**
- 1) THE CONTRACTOR SHALL NOTIFY DIG SAFE AT 1-888-DIG-SAFE (1-888-344-7233) AT LEAST 72 HOURS PRIOR TO COMMENCING ANY EXCAVATION ON PUBLIC OR PRIVATE PROPERTY.
 - 2) UNDERGROUND UTILITY LOCATIONS ARE BASED UPON BEST AVAILABLE EVIDENCE AND ARE NOT FIELD VERIFIED. LOCATING AND PROTECTING ANY ABOVEGROUND OR UNDERGROUND UTILITIES IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND/OR THE OWNER. UTILITY CONFLICTS SHOULD BE REPORTED AT ONCE TO THE DESIGN ENGINEER.
 - 3) CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH THE "NEW HAMPSHIRE STORMWATER MANUAL - VOLUME 3: EROSION AND SEDIMENT CONTROLS DURING CONSTRUCTION." (NHDES DECEMBER 2008).
 - 4) INSTALL CATCH BASIN INLET PROTECTION ON ALL EXISTING AND PROPOSED CATCH BASINS (IN THE PROJECT VICINITY) UNTIL CONSTRUCTION IS COMPLETED AND THE SITE IS STABILIZED.
 - 5) ALL WATER MAIN AND SANITARY SEWER WORK SHALL MEET THE STANDARDS OF THE NEW HAMPSHIRE STATE PLUMBING CODE AND CITY OF PORTSMOUTH DEPARTMENT OF PUBLIC WORKS.
 - 6) UTILITY AS-BUILTS SHALL BE SUBMITTED TO THE CITY OF PORTSMOUTH DEPARTMENT OF PUBLIC WORKS UPON COMPLETION OF THE PROJECT.
 - 7) EVERSOURCE WORK ORDER #XXXXXX
 - 8) PROPOSED SEWER FLOW:
 40 UNITS X 170 GPD/UNITS = 6,800 GPD
 TOTAL FLOW: 6,800 GPD
 - 9) THE APPLICANT SHALL HAVE A COMMUNICATIONS SITE SURVEY CONDUCTED BY A MOTOROLA COMMUNICATIONS CARRIER APPROVED BY THE PORTSMOUTH'S COMMUNICATIONS DIVISION. THE RADIO COMMUNICATIONS CARRIER MUST BE FAMILIAR AND CONVERSANT WITH THE PORTSMOUTH POLICE AND FIRE RADIO SYSTEMS CONFIGURATION. IF THE SITE SURVEY INDICATES THAT IT IS NECESSARY TO INSTALL A SIGNAL REPEATER EITHER ON OR NEAR THE PROPOSED PROJECT, THOSE COSTS SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER. THE PROPERTY OWNER WILL BE REQUIRED TO MAINTAIN ANY INSTALLED EQUIPMENT. THE PROPERTY OWNER SHALL BE RESPONSIBLE TO PAY FOR THE SITE SURVEY WHETHER OR NOT THE SURVEY INDICATES THAT EQUIPMENT IS NECESSARY. THE OWNER SHALL COORDINATE WITH THE SUPERVISOR OF RADIO COMMUNICATIONS FOR PORTSMOUTH. THE SURVEY SHALL BE COMPLETED AND ANY REQUIRED EQUIPMENT INSTALLED, TESTED, AND ACCEPTED PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.
 - 10) FINAL CONDUIT LOCATION SUBJECT TO CONFIRMATION FROM UTILITY PROVIDERS.
 - 11) EXISTING UTILITIES TO BE ABANDONED SHALL BE REMOVED TO THE UTILITY MAIN AND CAPPED PER THE UTILITY COMPANY REQUIREMENT.
 - 12) ROOF LEADERS FOR BUILDING B, C, & D WILL CONNECT TO THIS DRAIN LINE.



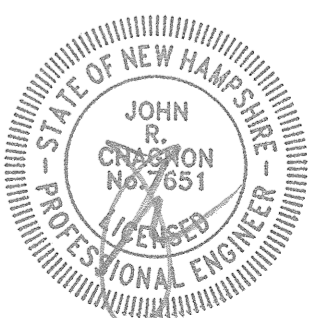
SEWER STRUCTURE TABLE

STRUCTURE	PROP/EX	RIM	PIPE SIZE/TYPE	INVERT IN	INVERT OUT	DIRECTION
SMH 1	EX	20.06	15" PVC	14.41	14.36	NE
SMH 2	EX	19.31	8" PVC	14.41	12.91	SE
SMH 3	EX	19.15	8" PVC	11.60	11.45	SW
			8" PVC	11.60	11.45	NE
			8" PVC	13.90		SE
SMH 4	EX	12.23	48" CI	-0.77		NW
			48" CI		-0.77	NE



**SITE REDEVELOPMENT
 361 HANOVER STREET
 PORTSMOUTH, N.H.**

NO.	DESCRIPTION	DATE
0	ISSUED FOR COMMENT	03/14/25
REVISIONS		



SCALE: 1"=20' JANUARY 2024

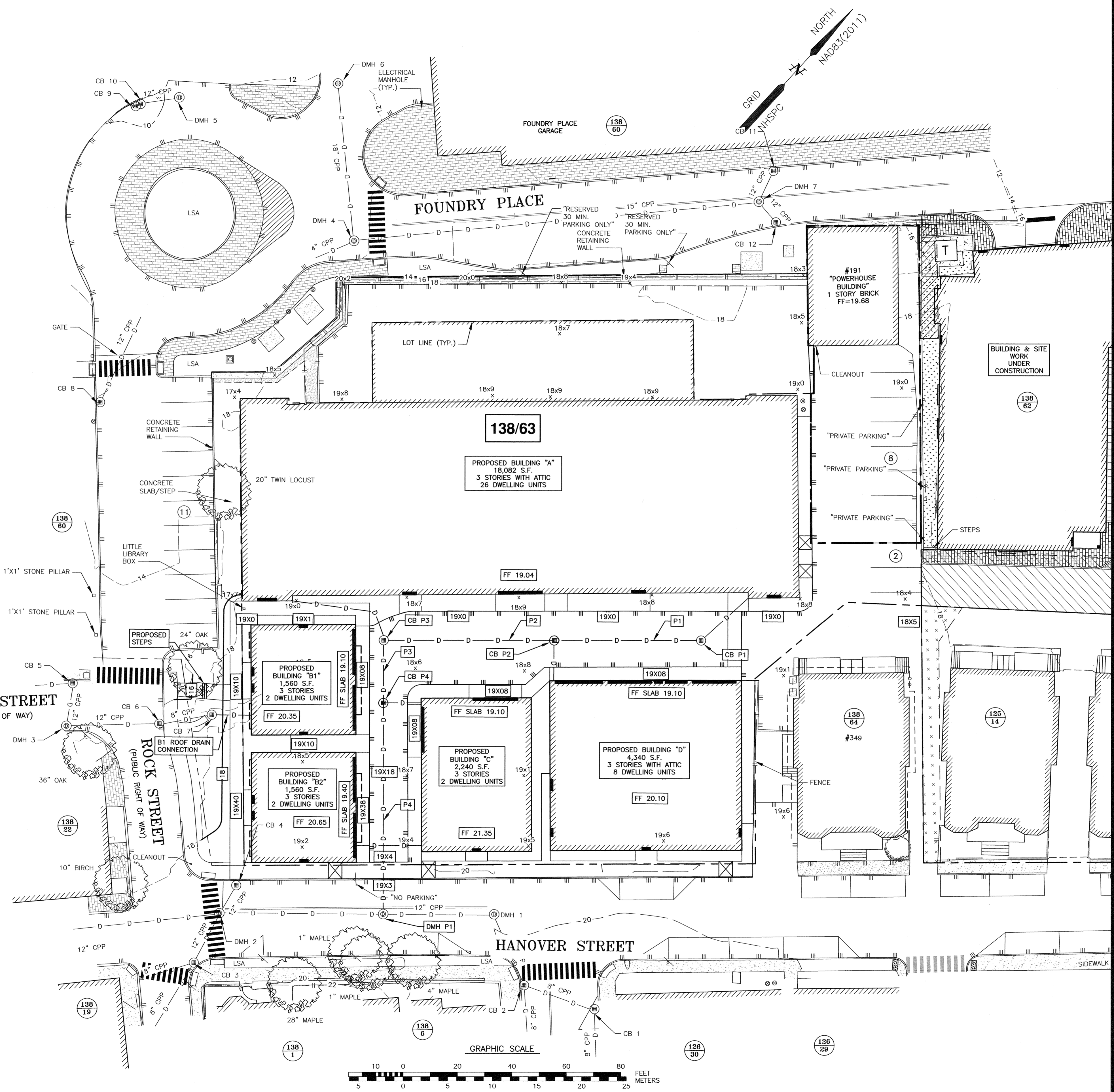
UTILITY PLAN **C4**

- NOTES:**
- 1) THE CONTRACTOR SHALL NOTIFY DIG SAFE AT 1-888-DIG-SAFE (1-888-344-7233) AT LEAST 72 HOURS PRIOR TO COMMENCING ANY EXCAVATION ON PUBLIC OR PRIVATE PROPERTY WITHIN 100 FEET OF UNDERGROUND UTILITIES. THE EXCAVATOR IS RESPONSIBLE TO MAINTAIN MARKS. DIG SAFE TICKETS EXPIRE IN THIRTY DAYS.
 - 2) UNDERGROUND UTILITY LOCATIONS ARE BASED UPON BEST AVAILABLE EVIDENCE AND ARE NOT FIELD VERIFIED. LOCATING AND PROTECTING ANY ABOVEGROUND OR UNDERGROUND UTILITIES IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND/OR THE OWNER. UTILITY CONFLICTS SHOULD BE REPORTED AT ONCE TO THE DESIGN ENGINEER.
 - 3) CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH THE "NEW HAMPSHIRE STORMWATER MANUAL, VOLUME 3, EROSION AND SEDIMENT CONTROLS DURING CONSTRUCTION. (NHDES DECEMBER 2008).

STRUCTURE	PROP/EX	RIM	PIPE SIZE/TYPE	INVERT IN	INVERT OUT	DIRECTION
CB 1	EX	20.66	8" CPP	17.46	17.46	SW
CB 2	EX	20.35	12" CPP	15.80	15.70	NE
CB 3	EX	19.29	8" CPP	16.50	16.54	SE
CB 4	EX	18.90	8" CPP	16.24	16.29	NW
CB 5	EX	15.00	12" CPP	10.00	10.00	SW
CB 6	EX	15.60	12" CPP	10.00	12.85	SE
CB 7	EX	17.43	8" CPP	13.20	16.28	SW
CB 8	EX	12.15	12" CPP	7.45	7.45	NW
CB 9&10	EX	9.76	12" CPP	5.86	5.86	NE
CB 11	EX	10.07	12" CPP	6.17	6.17	SE
CB 12	EX	10.22	12" CPP	6.92	6.92	W
DMH 1	EX	19.81	12" CPP	15.56	15.56	SW
DMH 2	EX	19.08	12" CPP	15.03	15.03	E
DMH 3	EX	15.30	12" CPP	10.65	10.65	NE
DMH 4	EX	11.86	12" CPP	5.46	5.46	NW
DMH 5	EX	9.87	12" CPP	5.56	5.56	NE
DMH 6	EX	11.84	4" PVC	9.36	9.36	SW
DMH 7	EX	10.19	12" CPP	6.44	6.29	NW
			12" CPP	6.39		E

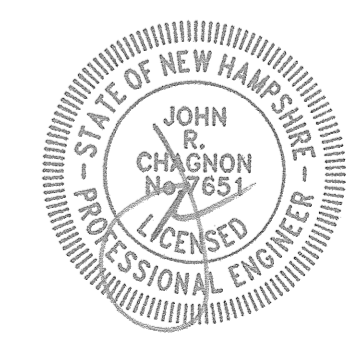
PIPE	PROP/EX	PIPE SIZE/TYPE	SLOPE
P1	PROP	50"X12" HDPE	0.004
P2	PROP	60"X12" HDPE	0.004
P3	PROP	18"X12" HDPE	0.004
P4	PROP	74"X12" HDPE	0.004

STRUCTURE	PROP/EX	RIM	PIPE SIZE/TYPE	INVERT IN	INVERT OUT
CB P1	PROP	18.80	12" HDPE	16.38	16.58
CB P2	PROP	18.84	12" HDPE	16.38	16.38
CB P3	PROP	18.88	12" HDPE	16.04	16.28
CB P4	PROP	18.88	12" HDPE	15.87	15.94
DMH P1	PROP	MATCH GRADE	12" HDPE	15.47	15.77
			12" HDPE		15.37



**SITE REDEVELOPMENT
 361 HANOVER STREET
 PORTSMOUTH, N.H.**

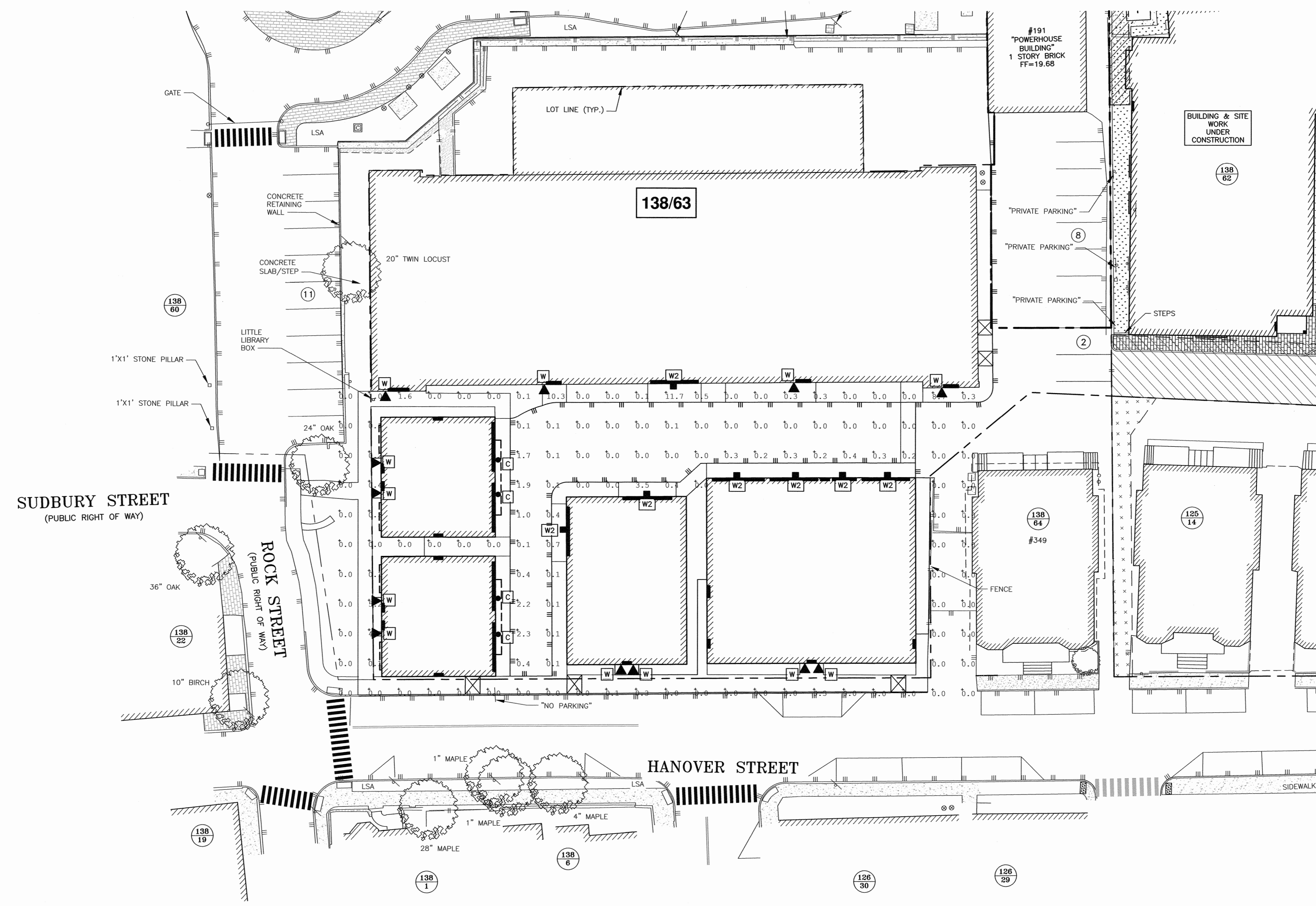
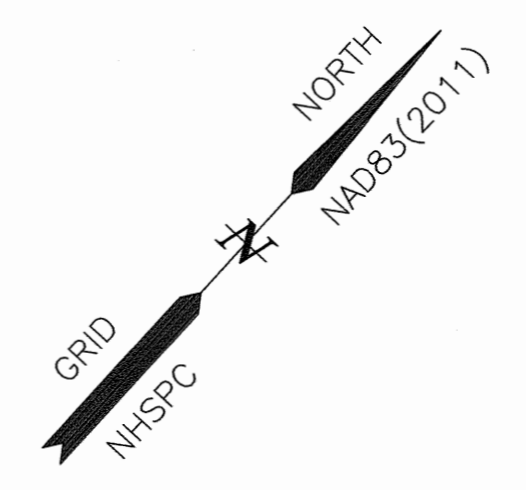
NO.	DESCRIPTION	DATE
0	ISSUED FOR COMMENT	03/14/25
	REVISIONS	



SCALE: 1"=20' JANUARY 2024

GRADING & DRAINAGE PLAN **C5**

Luminaire Schedule					
Symbol	Qty	Label	Arrangement	[MANUFAC]	Description
●	4	C	Single	NICOR	CLR43SUS9WH (7W,806LM)
▲	12	W	Single	LIGMAN	UVA-30001-8W-W30-01-120/277V
■	7	W2	Single	LIGMAN	UCI-30131-21W-W-W30-01-120/277V

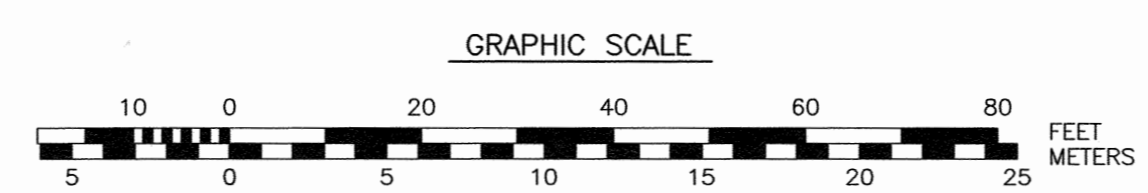


**SITE REDEVELOPMENT
 361 HANOVER STREET
 PORTSMOUTH, N.H.**

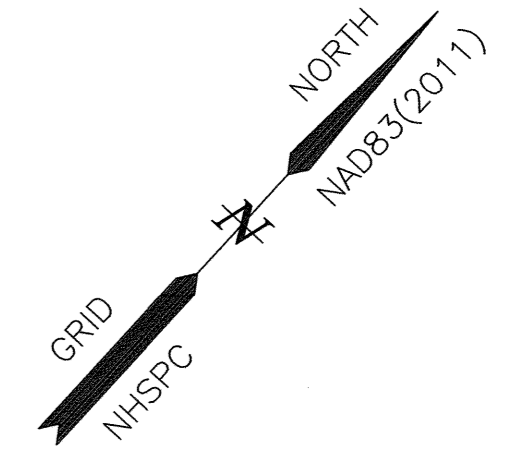
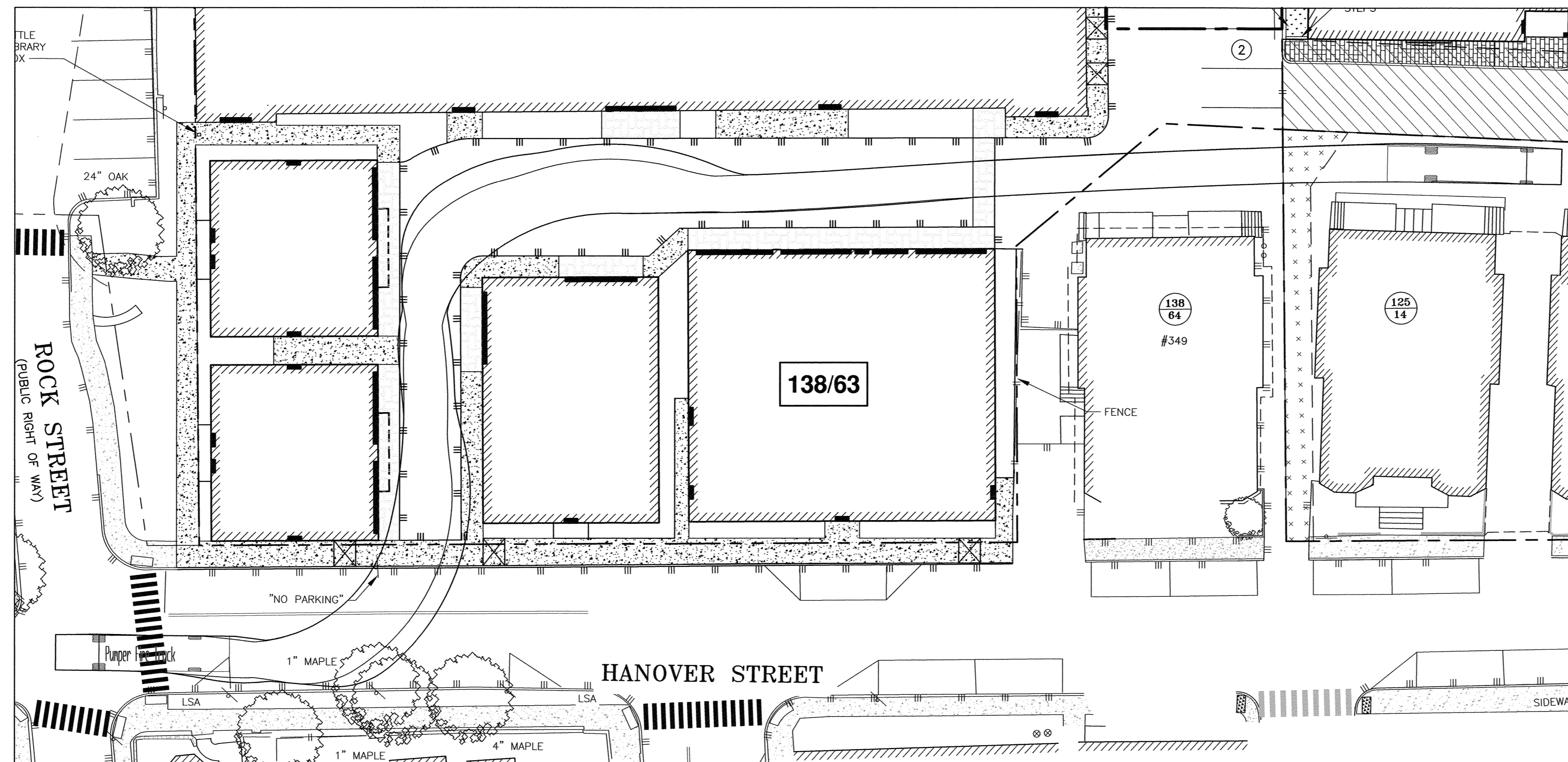
NO.	DESCRIPTION	DATE
0	ISSUED FOR COMMENT	03/14/25

SCALE: 1"=20' JANUARY 2024

LIGHTING PLAN **C6**



- NOTES:**
1. PARCEL IS SHOWN ON THE CITY OF PORTSMOUTH ASSESSOR'S MAP 138 AS LOT 63.
 2. APPLICANT:
361 HANOVER STEAM FACTORY, LLC
41 INDUSTRIAL DRIVE UNIT 20
EXETER, N.H. 03833
 3. PARCEL IS NOT IN A FLOOD HAZARD ZONE AS SHOWN ON FIRM PANEL 33015C0259F. JANUARY 29 2021.
- PROPOSED LOT AREAS:
- LOT 138/63
38,528 S.F.±
0.8845 AC
- LOT 138/63-1
4,717 S.F.
0.1083 AC
4. THE PURPOSE OF THIS PLAN IS TO SHOW A FIRE TRUCK TURNING TEMPLATE ON ASSESSOR'S MAP 138 LOT 63.

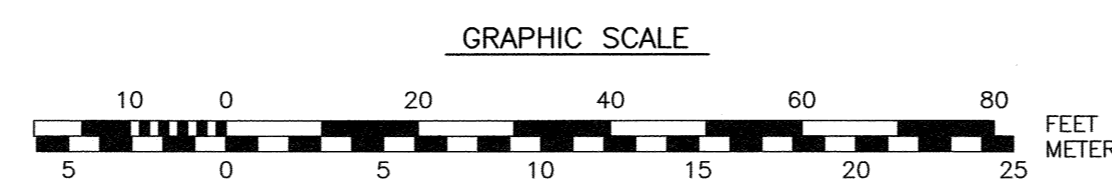


**SITE REDEVELOPMENT
 361 HANOVER STREET
 PORTSMOUTH, N.H.**

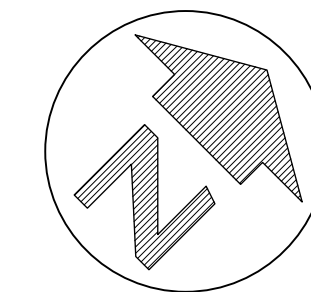
NO.	DESCRIPTION	DATE
0	ISSUED FOR COMMENT	03/14/25
REVISIONS		

SCALE: 1"=20' JANUARY 2024

**FIRE TRUCK
 TURNING TEMPLATE** **T2**



P:\MSD\010135-Hampshire_Development\3777.01-Hanover St., Portsmouth, NH\3777.024.dwg Plot/Plan & Specifications\3777.01 Turning Template.dwg, 3/11/2025 11:18:58 PM, User: rjones, Plot: 1



SCOTT M. BROWN

ESTD ARCHITECTS 2007

48 MARKET STREET
NEWBURYPORT, MA 01950
T. 978.465.3535

WWW.SCOTTBROWNARCHITECT.COM

BUILDING A AT 361 HANOVER STREET PORTSMOUTH, NH 03801

REVISION & REISSUE NOTES

No.	Date	Notes
A	3-11-25	DESIGN REVIEW SUBMISSION
B	3-14-25	TAC SUBMISSION

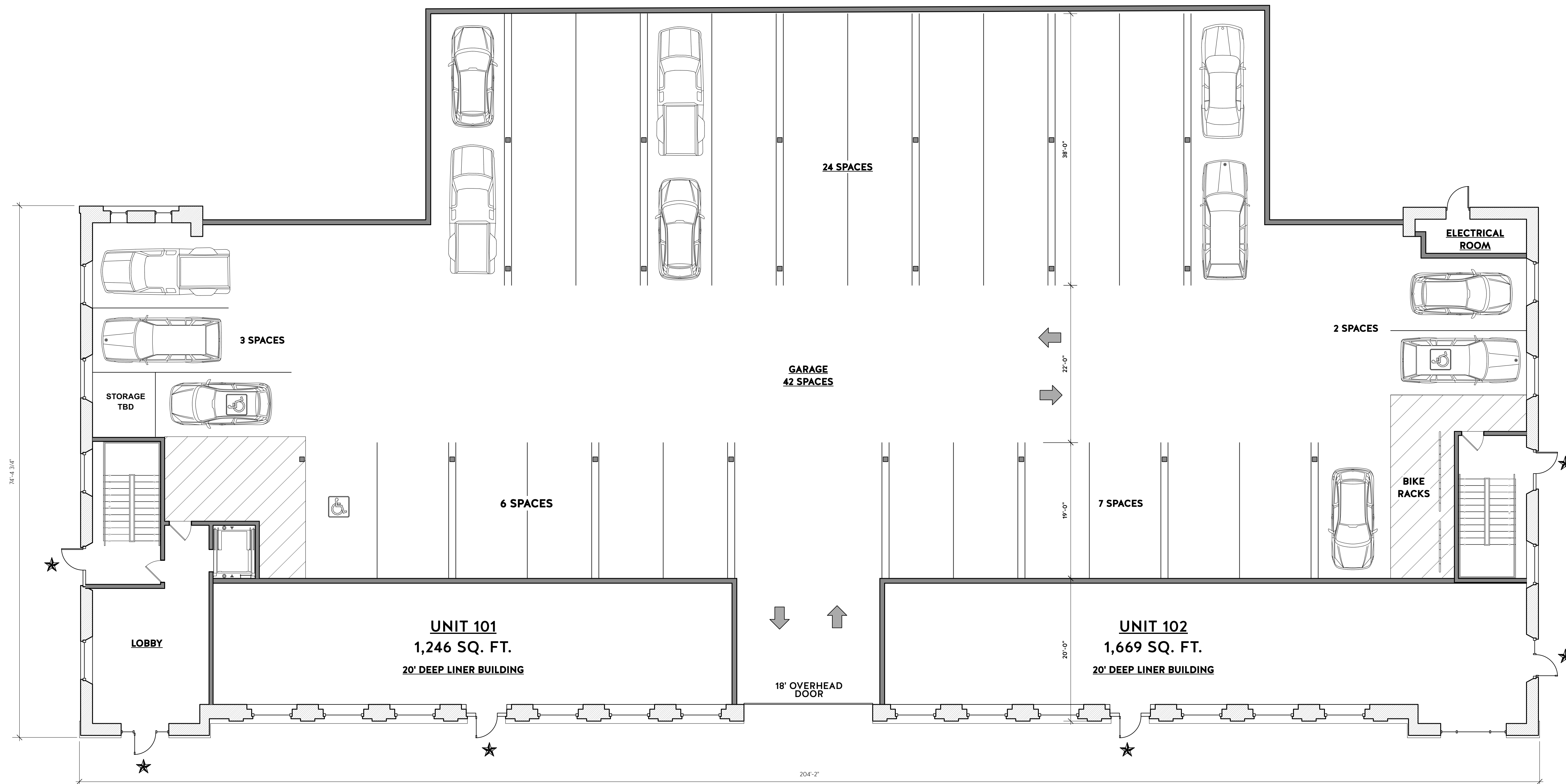
Project #	Project Manager	Date
2024-09	X.X.	3-14-25

Scale: AS NOTED

GROUND LEVEL PLAN: BUILDING A

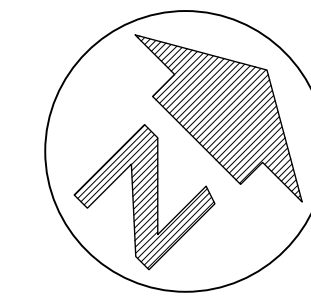
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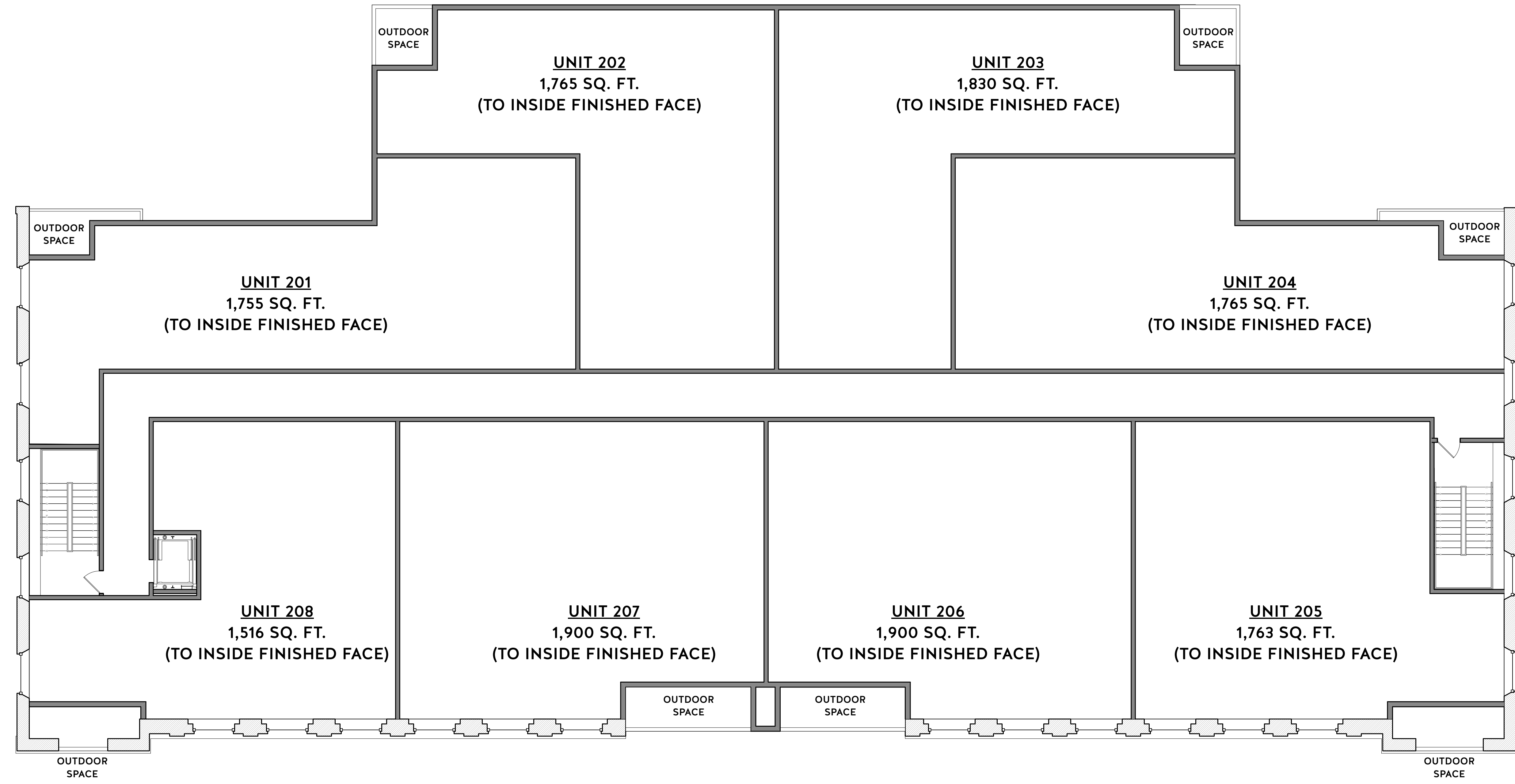


1 GROUND LEVEL PLAN
Scale: 1/8" = 1'-0"





BUILDING A
 AT
361 HANOVER STREET
 PORTSMOUTH, NH 03801



REVISION & REISSUE NOTES

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A	3-11-25	DESIGN REVIEW SUBMISSION
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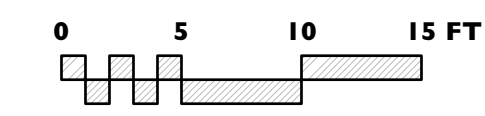
Project #	Project Manager	Date
2024-09	X.X.	3-14-25

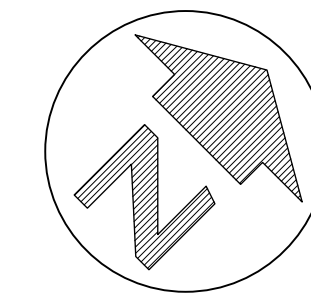
Scale: AS NOTED

**SECOND LEVEL PLAN:
 BUILDING A**

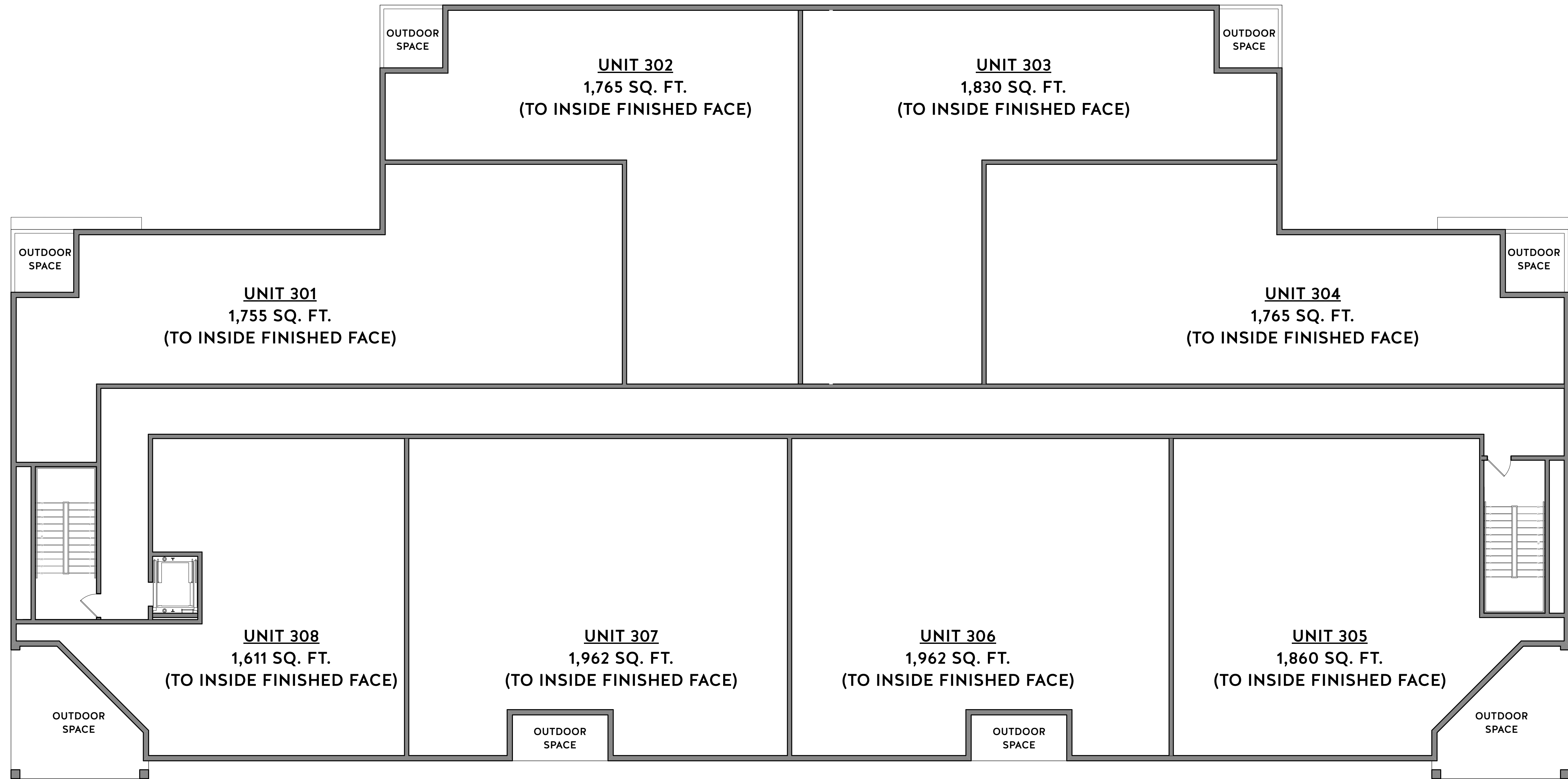
A1.2a

1 SECOND LEVEL PLAN
 Scale: 1/8" = 1'-0"





BUILDING A
 AT
 361 HANOVER STREET
 PORTSMOUTH, NH 03801



REVISION & REISSUE NOTES

No.	Date	Notes
A	3-11-25	DESIGN REVIEW SUBMISSION
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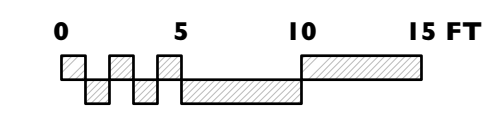
Project #	Project Manager	Date
2024-09	X.X.	3-14-25

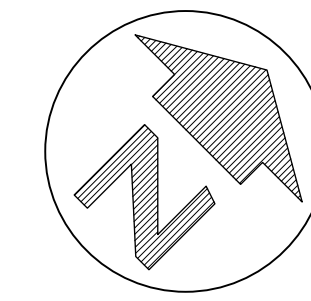
Scale: AS NOTED

THIRD LEVEL PLAN:
 BUILDING A

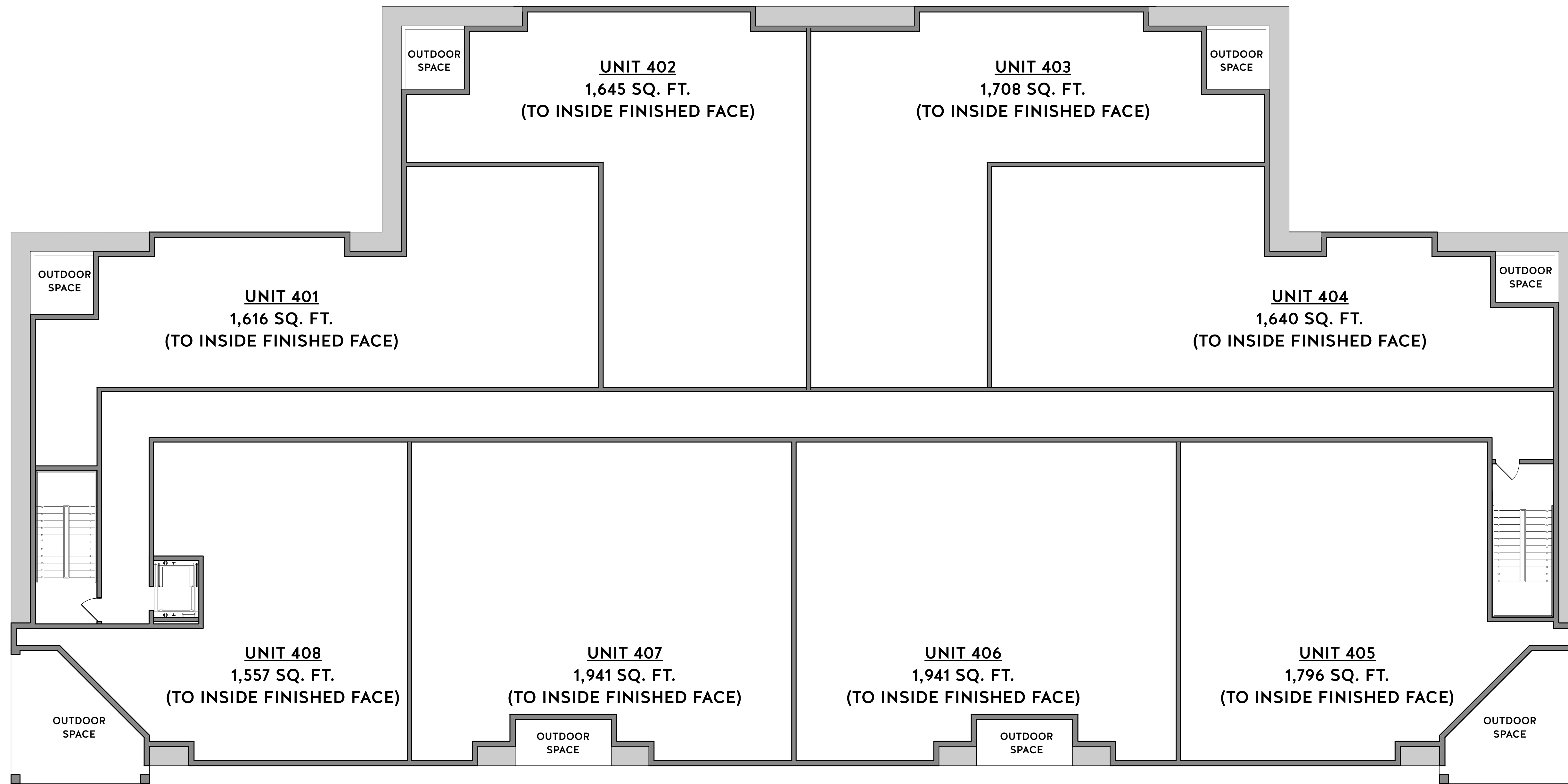
A1.3a

1 THIRD LEVEL PLAN
 Scale: 1/8" = 1'-0"





BUILDING A
 AT
361 HANOVER STREET
 PORTSMOUTH, NH 03801



REVISION & REISSUE NOTES		
No.	Date	Notes
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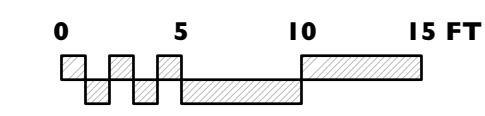
Project #	Project Manager	Date
2024-09	X.X.	3-14-25

Scale: AS NOTED

**FOURTH LEVEL PLAN:
 BUILDING A**

A1.4a

1 **FOURTH LEVEL PLAN**
 Scale: 1/8" = 1'-0"



BUILDING A
AT
361 HANOVER STREET
PORTSMOUTH, NH 03801

REVISION & REISSUE NOTES

No.	Date	Notes
A	3-11-25	DESIGN REVIEW SUBMISSION
B	3-14-25	TAC SUBMISSION

Project #	Project Manager	Date
2024-09	X.X.	3-14-25

Scale: AS NOTED

PROPOSED
ELEVATIONS:
BUILDING A

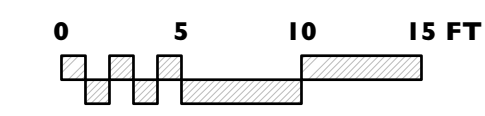
A2.1a



2 SOUTH (LEFT SIDE) ELEVATION
Scale: 1/8" = 1'-0"



1 EAST (FRONT) ELEVATION
Scale: 1/8" = 1'-0"



BUILDING A
AT
361 HANOVER STREET
PORTSMOUTH, NH 03801



2 NORTH (RIGHT SIDE) ELEVATION
Scale: 1/8" = 1'-0"



1 WEST (REAR) ELEVATION
Scale: 1/8" = 1'-0"

REVISION & REISSUE NOTES

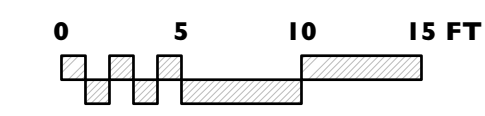
No.	Date	Notes
A	3-11-25	DESIGN REVIEW SUBMISSION
B	3-14-25	TAC SUBMISSION

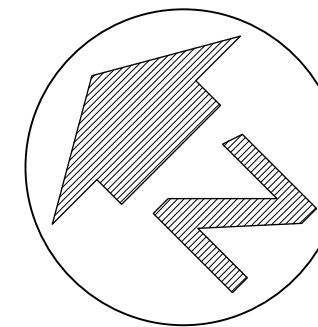
Project #	Project Manager	Date
2024-09	X.X.	3-14-25

Scale: AS NOTED

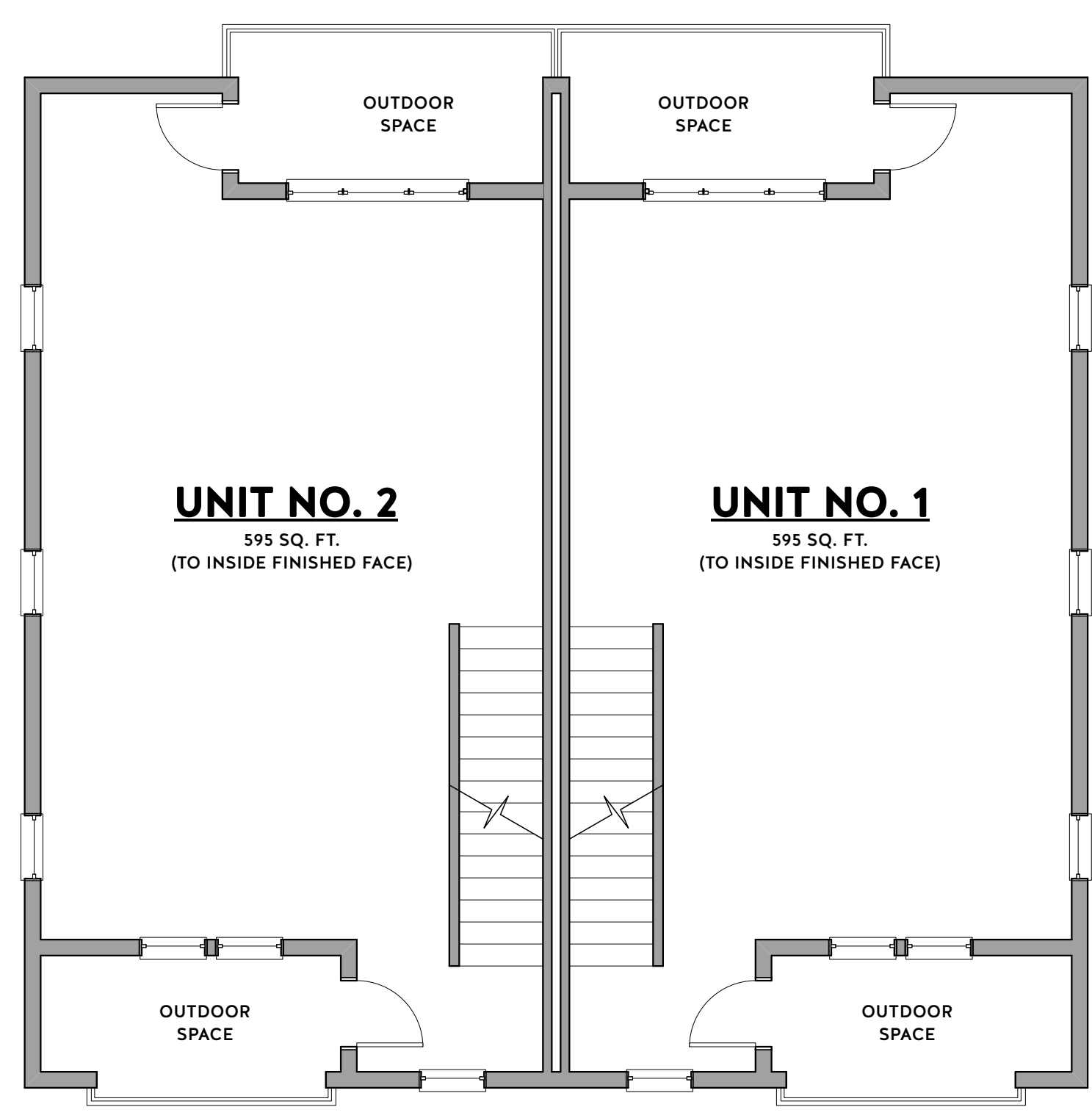
PROPOSED
ELEVATIONS:
BUILDING A

A2.2a

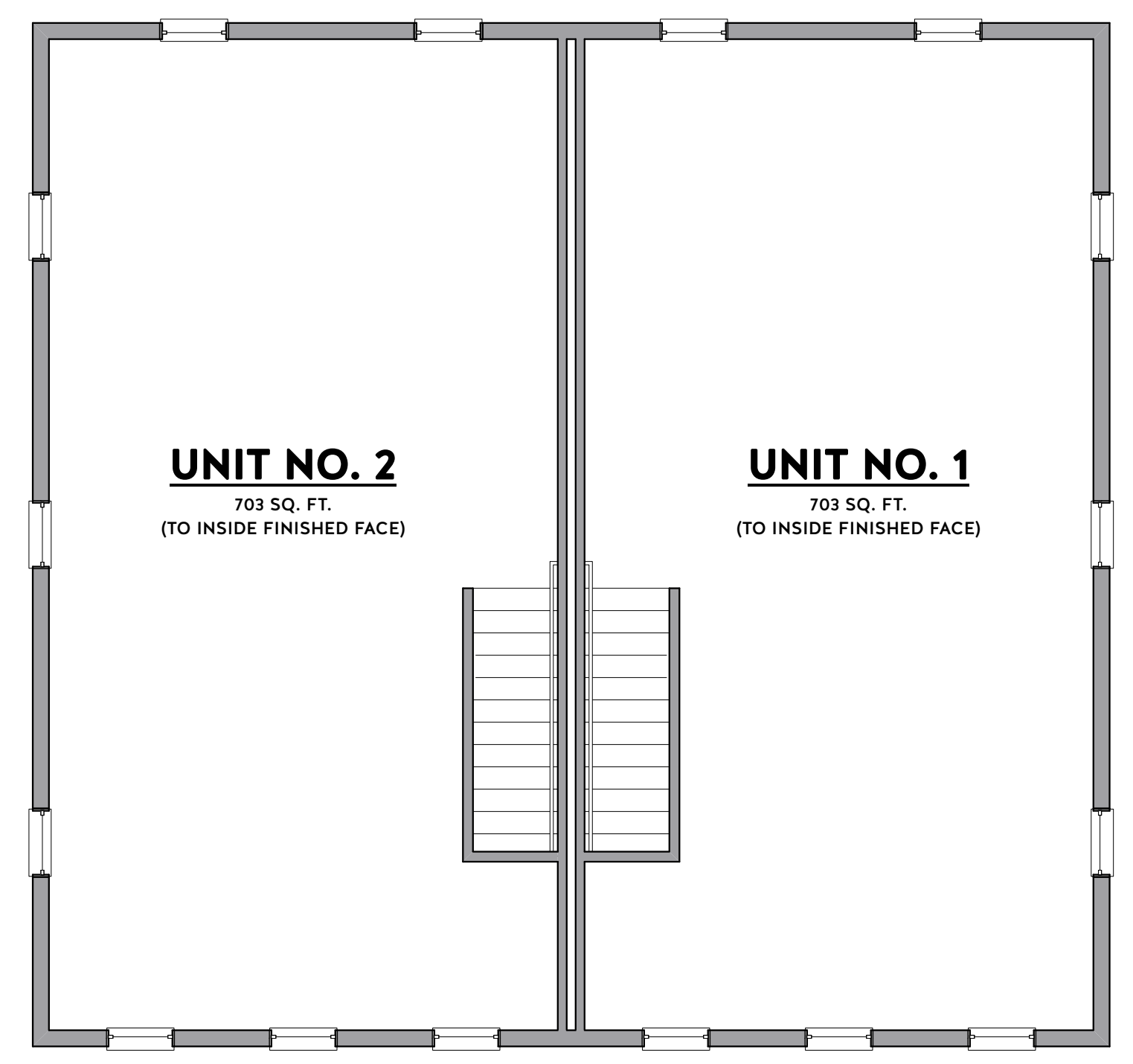




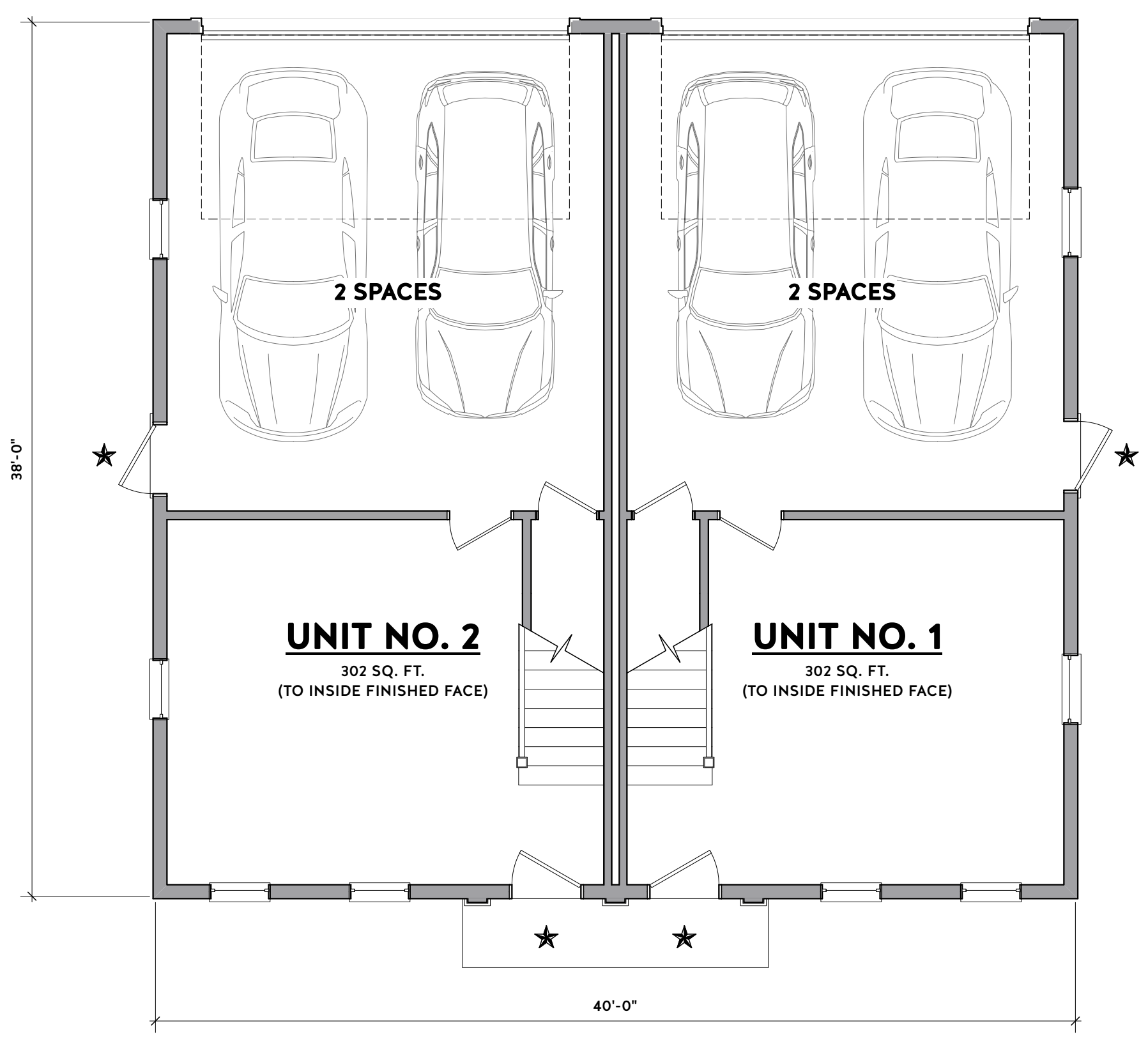
BUILDINGS B1/B2
AT
361 HANOVER STREET
PORTSMOUTH, NH 03801



2 SECOND FLOOR PLAN
Scale: 3/16" = 1'-0"



3 THIRD FLOOR PLAN
Scale: 3/16" = 1'-0"



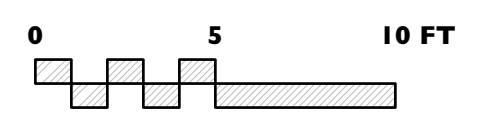
1 GROUND FLOOR PLAN
Scale: 3/16" = 1'-0"

REVISION & REISSUE NOTES		
No.	Date	Notes
A	3-5-25	DESIGN REVIEW SUBMISSION
B	3-14-25	TAC SUBMISSION

Project # 2024-09	Project Manager X.X.	Date 3-14-25
Scale: AS NOTED		

LAYOUT PLANS:
BUILDINGS B1/B2

A1.1b



BUILDINGS B1/B2
AT
361 HANOVER STREET
PORTSMOUTH, NH 03801

REVISION & REISSUE NOTES

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2024-09	X.X.	3-14-25

Scale: AS NOTED

PROPOSED
ELEVATIONS:
BUILDING B1/B2

A2.1b



4 BUILDING B: NORTH (REAR) ELEVATION
Scale: 3/16" = 1'-0"



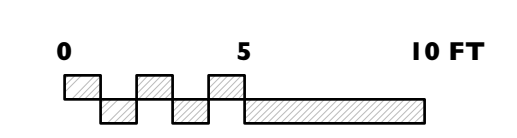
3 BUILDING B: WEST (LEFT SIDE) ELEVATION
Scale: 3/16" = 1'-0"

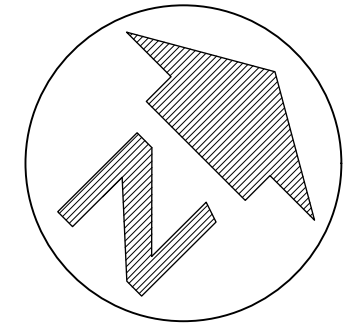


2 BUILDING B: EAST (RIGHT SIDE) ELEVATION
Scale: 3/16" = 1'-0"

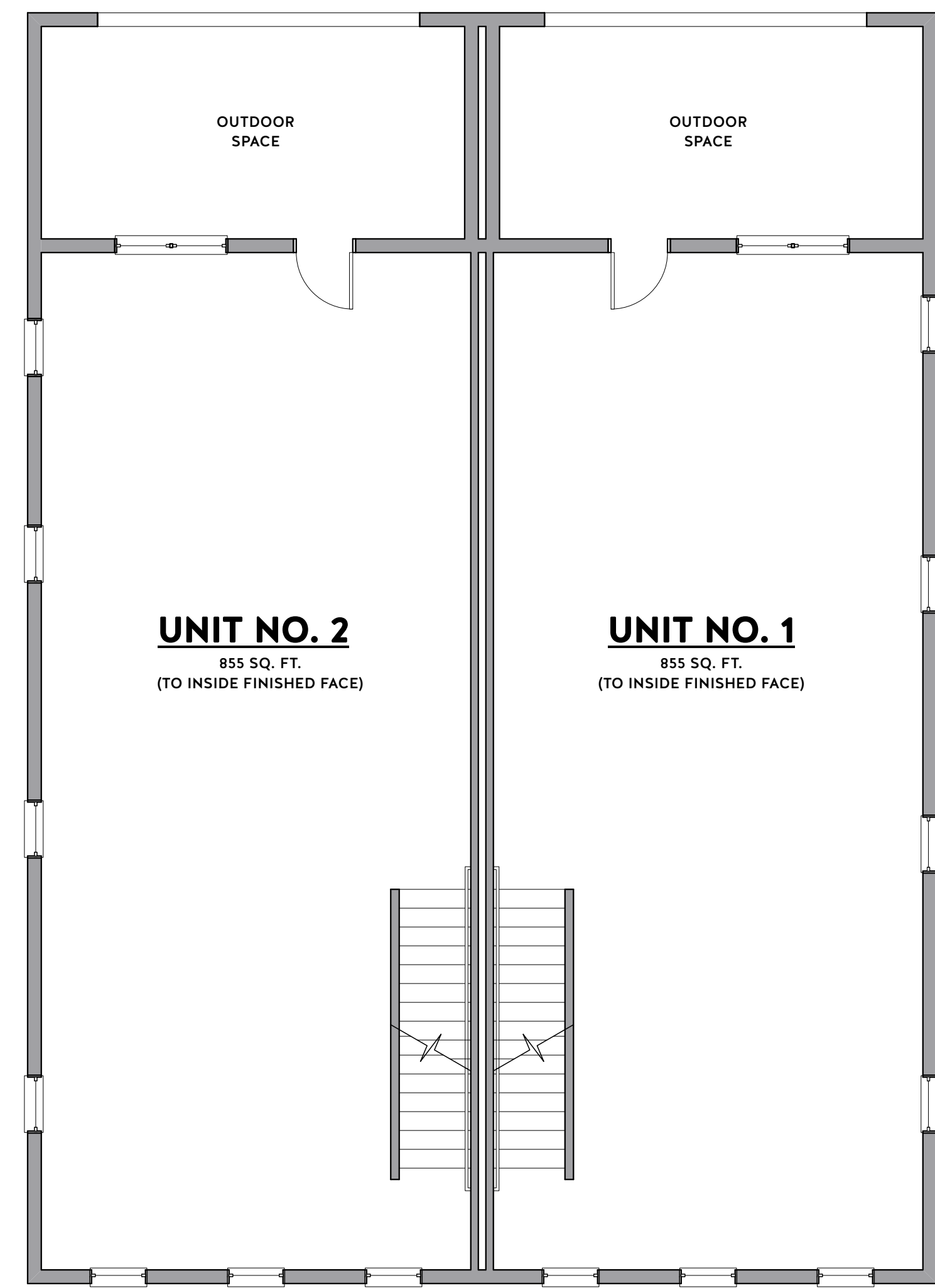


1 BUILDING B: SOUTH (FRONT) ELEVATION
Scale: 3/16" = 1'-0"

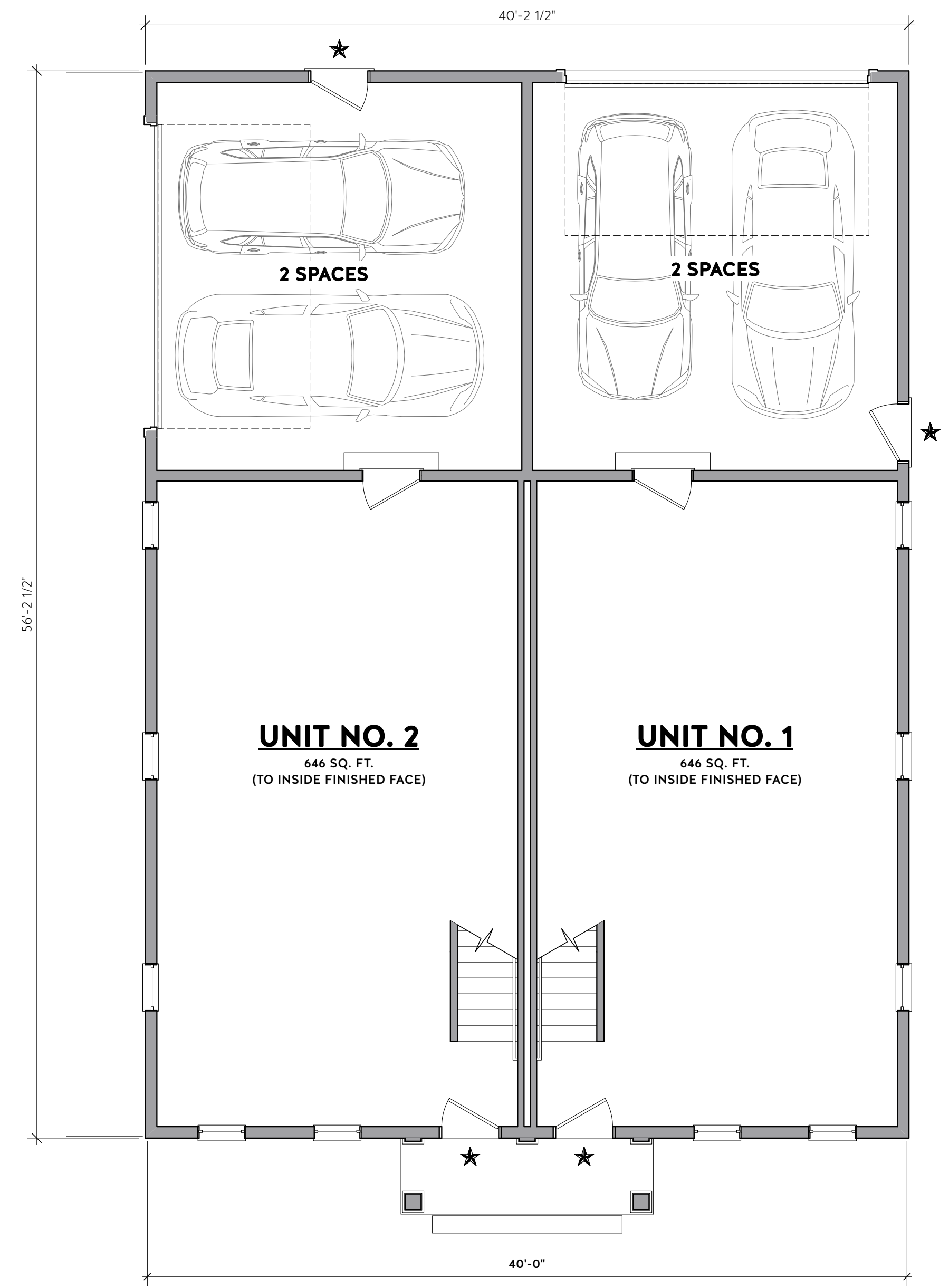




BUILDING C
AT
361 HANOVER STREET
PORTSMOUTH, NH 03801



2 SECOND FLOOR PLAN
Scale: 3/16" = 1'-0"



1 GROUND FLOOR PLAN
Scale: 3/16" = 1'-0"

REVISION & REISSUE NOTES

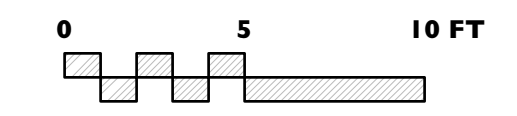
No.	Date	Notes
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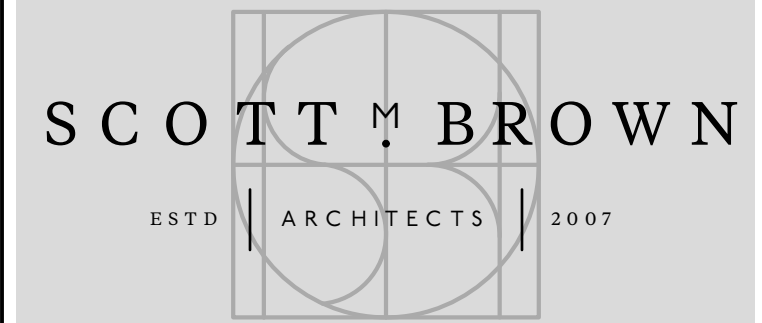
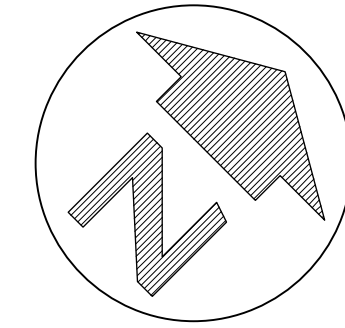
Project #	Project Manager	Date
2024-09	X.X.	3-14-25

Scale: AS NOTED

LAYOUT PLANS:
BUILDING C

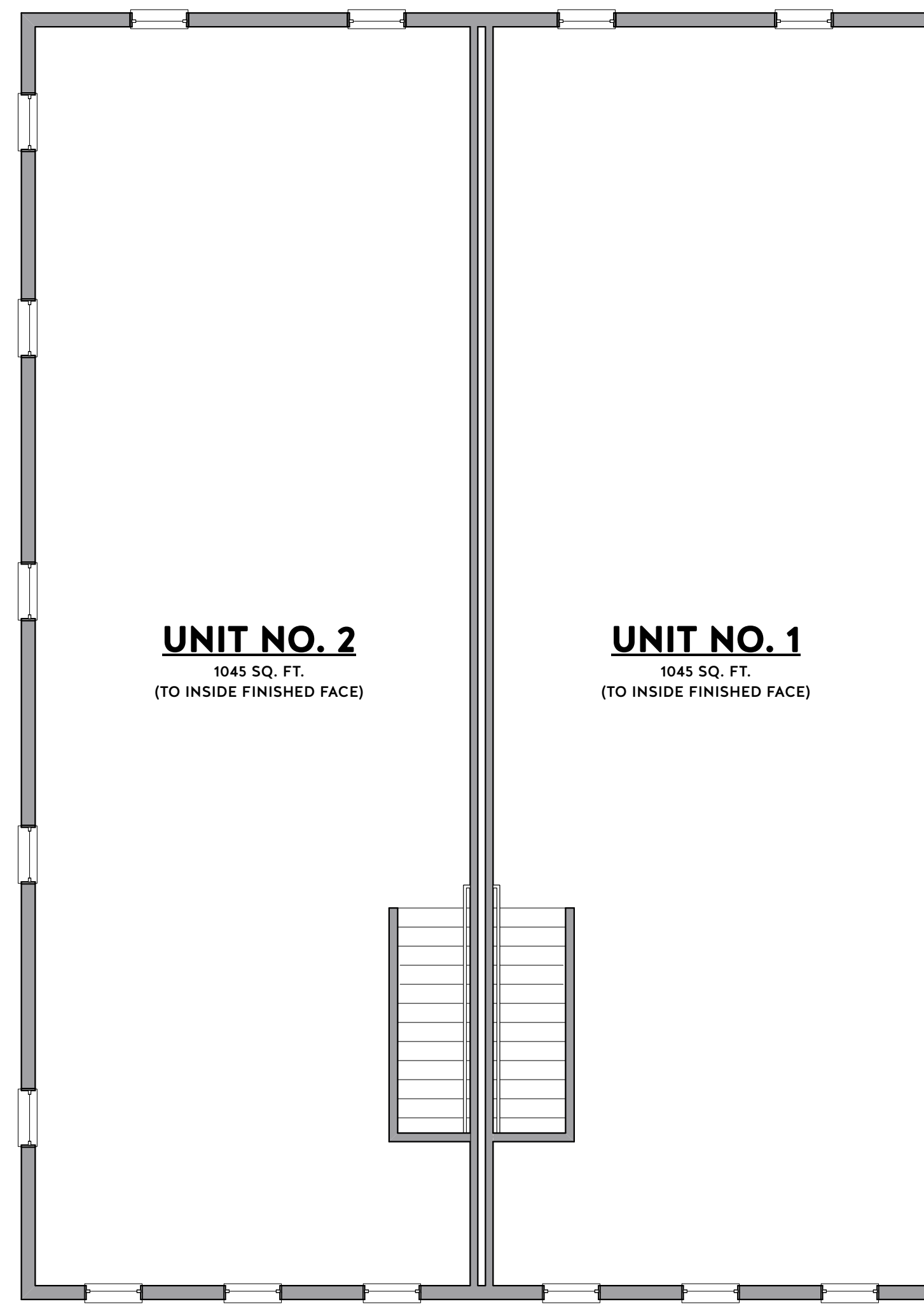
A1.1c





48 MARKET STREET
 NEWBURYPORT, MA 01950
 T. 978.465.3535
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BUILDING C
 AT
361 HANOVER STREET
 PORTSMOUTH, NH 03801



UNIT NO. 2
 1045 SQ. FT.
 (TO INSIDE FINISHED FACE)

UNIT NO. 1
 1045 SQ. FT.
 (TO INSIDE FINISHED FACE)

REVISION & REISSUE NOTES

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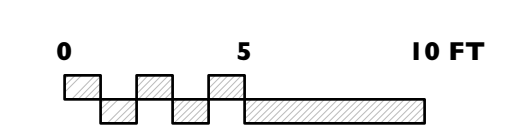
Scale: AS NOTED

**LAYOUT PLANS:
 BUILDING C**

A1.2c

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1 THIRD FLOOR PLAN
 Scale: 3/16" = 1'-0"



BUILDING C
AT
361 HANOVER STREET
PORTSMOUTH, NH 03801

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Project #	Project Manager	Date
2024-09	X.X.	3-14-25

Scale: AS NOTED

ELEVATION OPTIONS:
BUILDING C

A2.1c



4 BUILDING C: SOUTH (LEFT SIDE) ELEVATION
Scale: 3/16" = 1'-0"



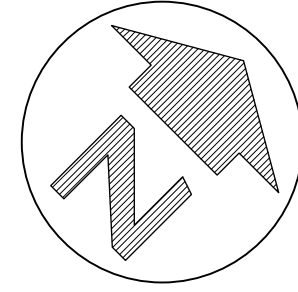
3 BUILDING C: WEST (REAR) ELEVATION
Scale: 3/16" = 1'-0"



2 BUILDING C: NORTH (RIGHT SIDE) ELEVATION
Scale: 3/16" = 1'-0"



1 BUILDING C: EAST (FRONT) ELEVATION
Scale: 3/16" = 1'-0"



SCOTT BROWN

ESTD ARCHITECTS 2007

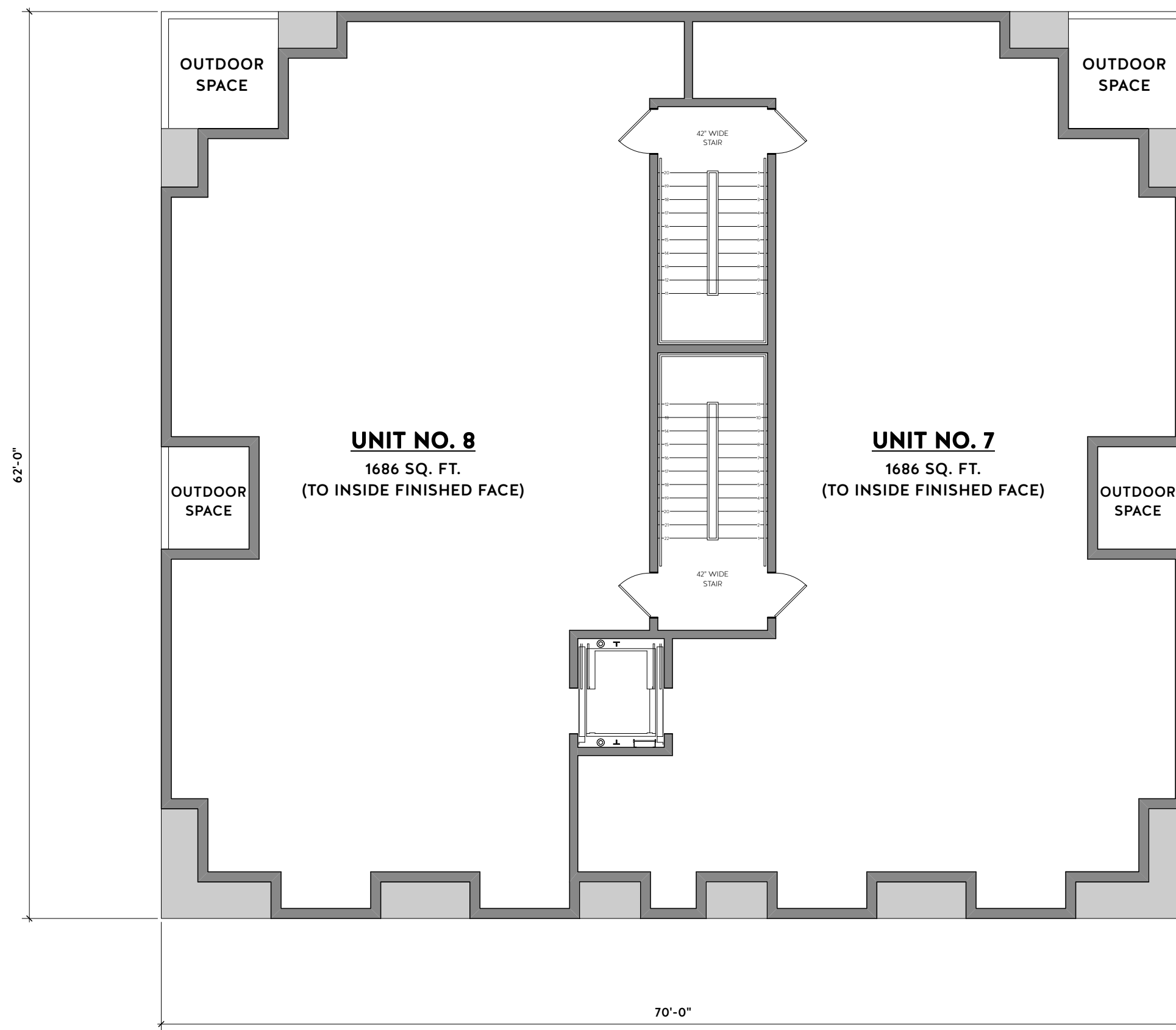
48 MARKET STREET

NEWBURYPORT, MA 01950

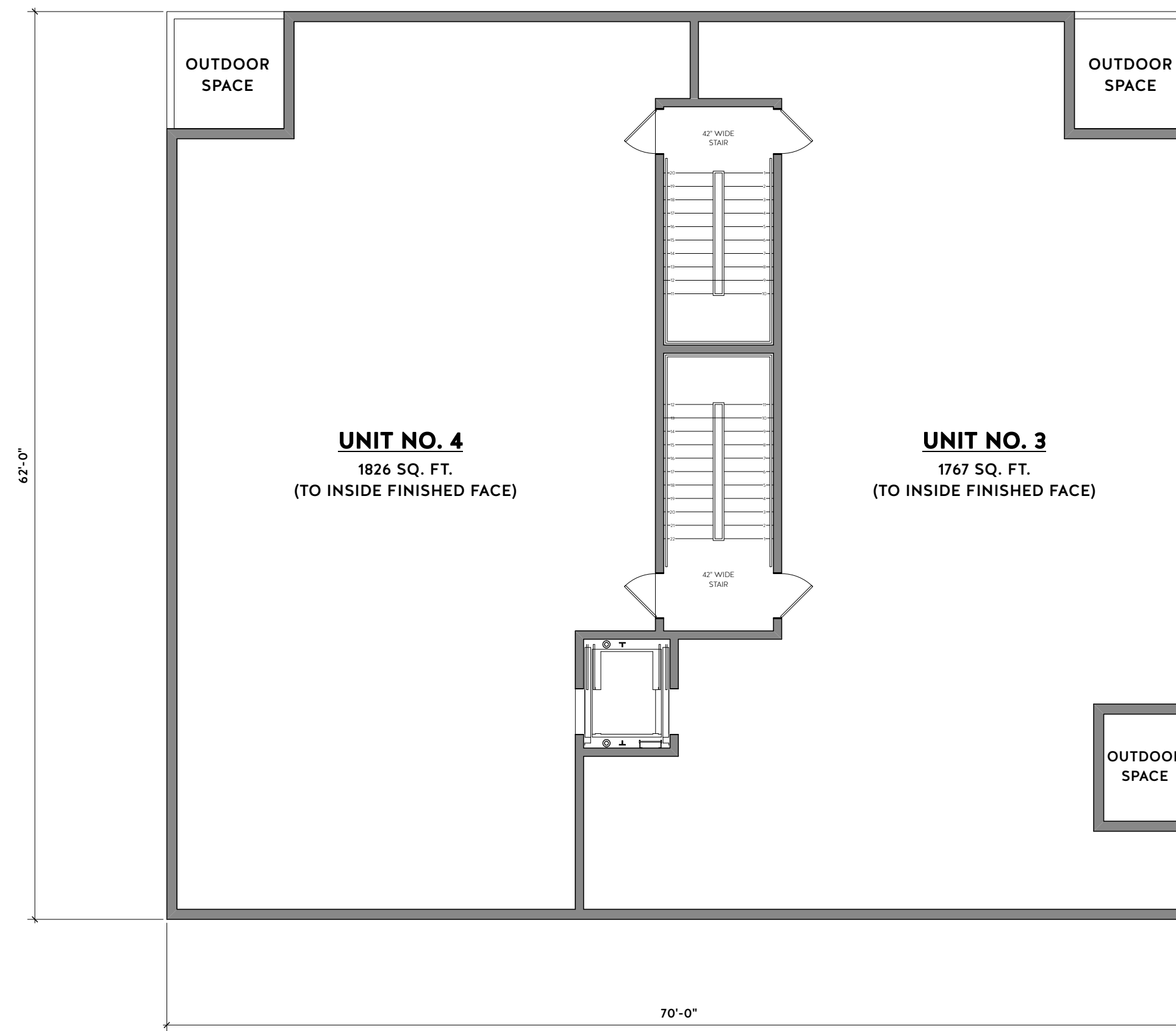
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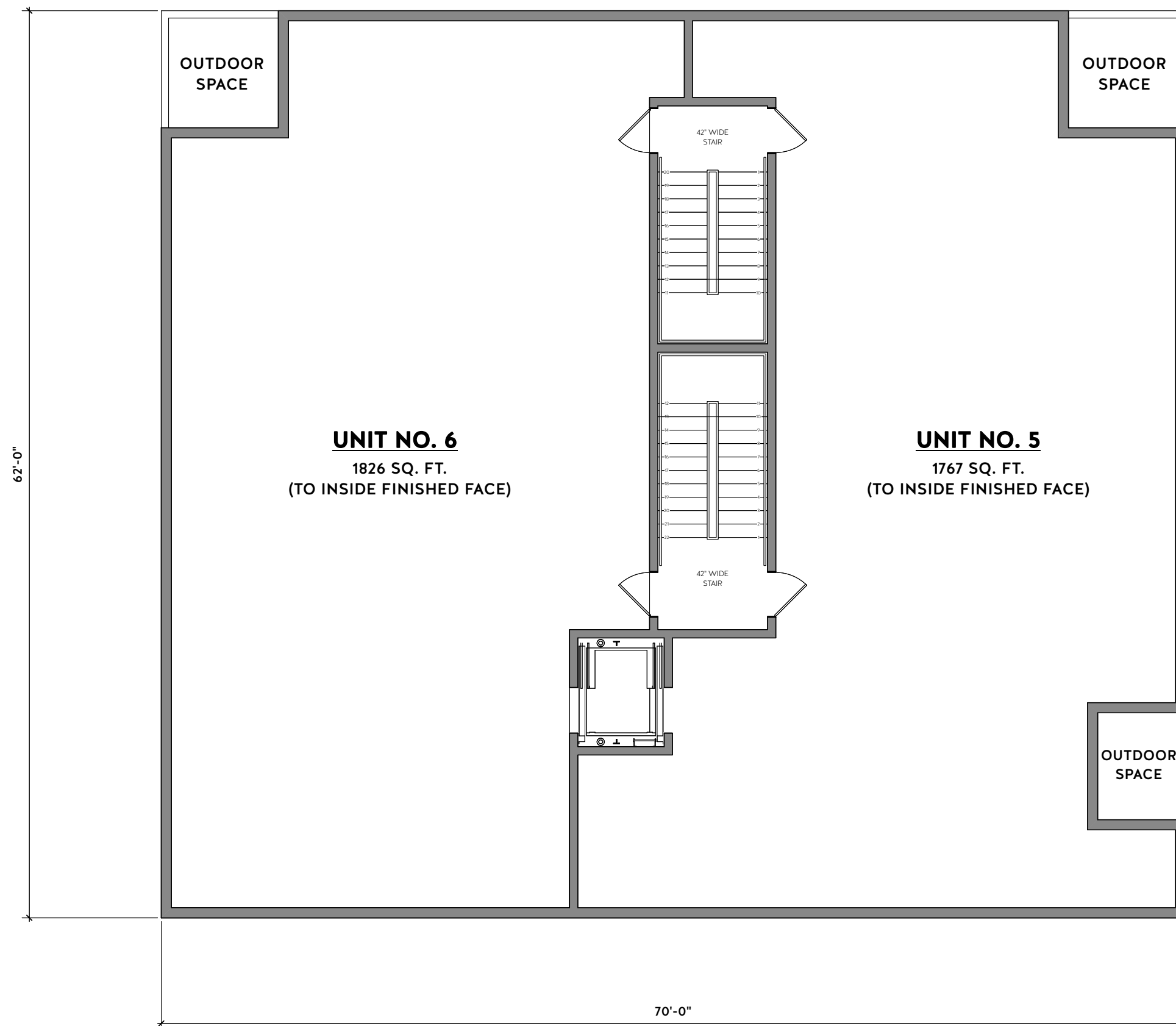
BUILDING D
AT
361 HANOVER STREET
PORTSMOUTH, NH, 03801



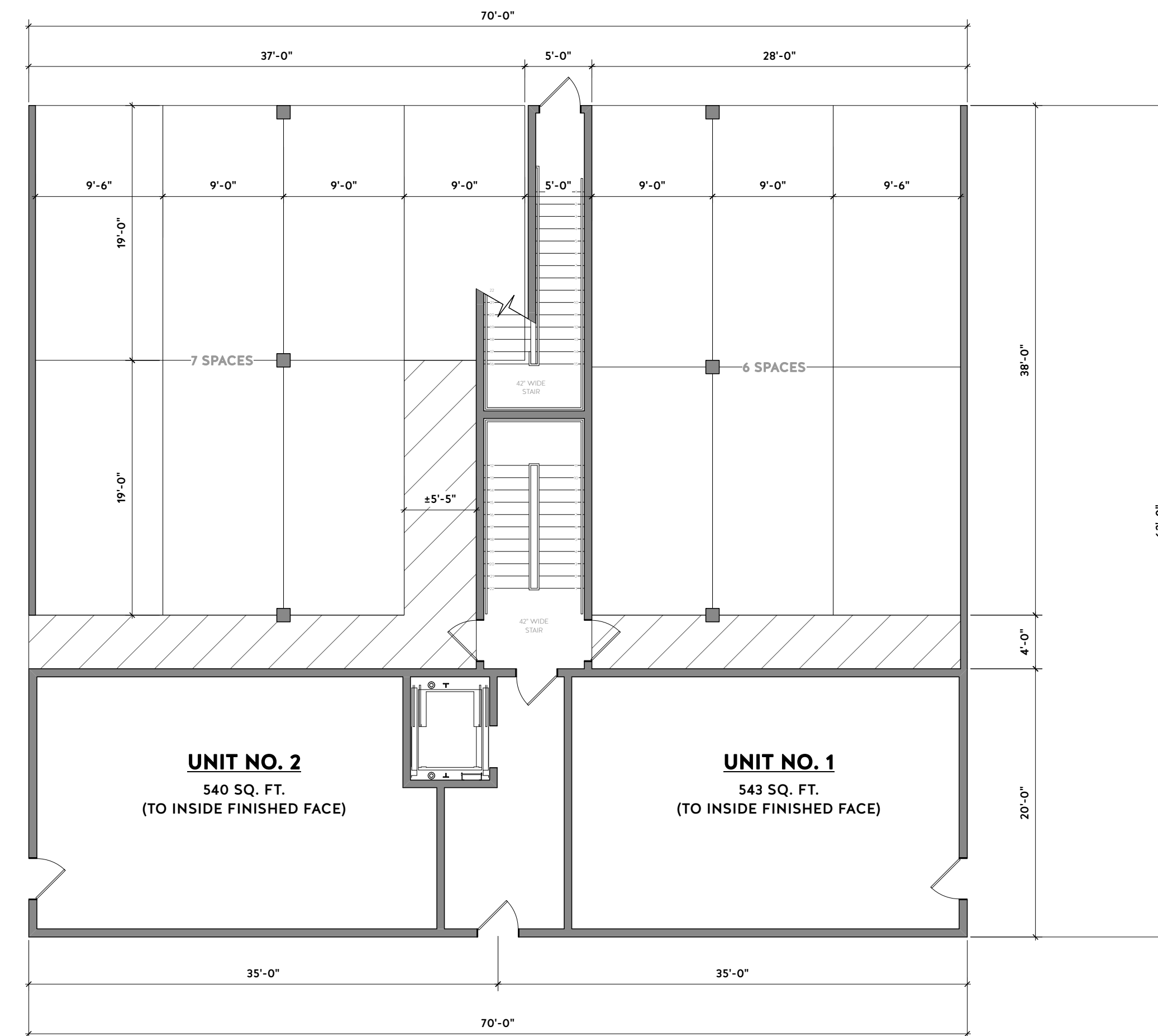
4 FOURTH FLOOR PLAN
Scale: 1/8" = 1'-0"



2 SECOND FLOOR PLAN
Scale: 1/8" = 1'-0"



3 THIRD FLOOR PLAN
Scale: 1/8" = 1'-0"



1 GROUND LEVEL PLAN
Scale: 1/8" = 1'-0"



REVISION & REISSUE NOTES

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2024-09	X.X.	3-14-25

Scale: AS NOTED

FLOOR LAYOUT
PLANS: BUILDING D

A1.1d

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BUILDING D
AT
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PORTSMOUTH, NH, 03801



2 BUILDING D: SOUTH (LEFT SIDE) ELEVATION
Scale: 3/16" = 1'-0"



1 BUILDING D: EAST (FRONT) ELEVATION
Scale: 3/16" = 1'-0"

REVISION & REISSUE NOTES

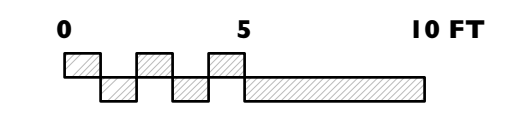
No.	Date	Notes
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Project #	Project Manager	Date
2024-09	X.X.	3-14-25

Scale: AS NOTED

ELEVATIONS:
BUILDING D

A2.1d



BUILDING D
AT
361 HANOVER STREET
PORTSMOUTH, NH, 03801



2 BUILDING D: NORTH (RIGHT SIDE) ELEVATION
Scale: 3/16" = 1'-0"



1 BUILDING D: WEST (REAR) ELEVATION
Scale: 3/16" = 1'-0"

REVISION & REISSUE NOTES

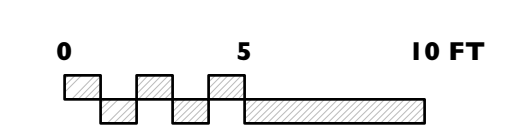
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Scale: AS NOTED

ELEVATIONS:
BUILDING D

A2.2d



STREET ELEVATIONS
AT
361 HANOVER STREET
PORTSMOUTH, NH, 03801

REVISION & REISSUE NOTES

No.	Date	Notes
A	3-14-25	TAC SUBMISSION

Project #	Project Manager	Date
2024-09	X.X.	3-14-25

Scale: AS NOTED

STREET ELEVATIONS

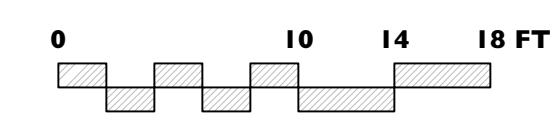
A2.1



2 ROCK STREET ELEVATION
Scale: 1/8" = 1'-0"



1 HANOVER STREET ELEVATION
Scale: 1/8" = 1'-0"



EROSION CONTROL NOTES

CONSTRUCTION SEQUENCE

DO NOT BEGIN CONSTRUCTION UNTIL ALL LOCAL, STATE AND FEDERAL PERMITS HAVE BEEN APPLIED FOR AND RECEIVED.

IF REQUIRED THE CONTRACTOR SHALL OBTAIN AN NPDES PHASE II STORMWATER PERMIT AND SUBMIT A NOTICE OF INTENT (N.O.I.) BEFORE BEGINNING CONSTRUCTION AND SHALL HAVE ON SITE A STORMWATER POLLUTION PREVENTION PLAN (S.W.P.P.P.) AVAILABLE FOR INSPECTION BY THE PERMITTING AUTHORITY DURING THE CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CARRYING OUT THE S.W.P.P.P. AND INSPECTING AND MAINTAINING ALL BMP'S CALLED FOR BY THE PLAN. THE CONTRACTOR SHALL SUBMIT A NOTICE OF TERMINATION (N.O.T.) FORM TO THE REGIONAL EPA OFFICE WITHIN 30 DAYS OF FINAL STABILIZATION OF THE ENTIRE SITE OR TURNING OVER CONTROL OF THE SITE TO ANOTHER OPERATOR.

THE FOLLOWING REPRESENTS THE GENERAL OBSERVATION AND REPORTING PRACTICES THAT SHALL BE FOLLOWED AS PART OF THIS PROJECT:

- OBSERVATIONS OF THE PROJECT FOR COMPLIANCE WITH THE SWPPP SHALL BE MADE BY THE CONTRACTOR AT LEAST ONCE A WEEK OR WITHIN 24 HOURS OF A STORM 0.25 INCHES OR GREATER;
- AN OBSERVATION REPORT SHALL BE MADE AFTER EACH OBSERVATION AND DISTRIBUTED TO THE ENGINEER, THE OWNER, AND THE CONTRACTOR;
- A REPRESENTATIVE OF THE SITE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND REPAIR ACTIVITIES;
- IF A REPAIR IS NECESSARY, IT SHALL BE INITIATED WITHIN 24 HOURS OF REPORT.

INSTALL PERIMETER CONTROLS, i.e., SILTSOXX AND CATCH BASIN PROTECTION AROUND THE LIMITS OF DISTURBANCE BEFORE ANY EARTH MOVING OPERATIONS. THE USE OF HAYBALES IS NOT ALLOWED.

THE CONTRACTOR SHALL CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE(S) PRIOR TO ANY EXCAVATION ACTIVITIES. PLACE FODS AS NEEDED.

CUT AND GRUB ALL TREES, SHRUBS, SAPLINGS, BRUSH, VINES AND REMOVE OTHER DEBRIS AND RUBBISH AS REQUIRED. DEMOLISH BUILDINGS AND FENCES AS NEEDED.

ROUGH GRADE SITE.

LAYOUT AND INSTALL ALL BURIED UTILITIES AND SERVICES UP TO 10' OF THE PROPOSED BUILDING FOUNDATIONS, CAP AND MARK TERMINATIONS OR LOG SWING TIES.

CONSTRUCT BUILDING.

CONNECT UTILITIES.

PLACE BINDER LAYER OF PAVEMENT AND CONSTRUCT SIDEWALK BASE.

PLANT LANDSCAPING IN AREAS OUT OF WAY OF BUILDING CONSTRUCTION. PREPARE AND STABILIZE FINAL SITE GRADING BY ADDING TOPSOIL, SEED, MULCH AND FERTILIZER.

AFTER BUILDINGS ARE COMPLETED, FINISH ALL REMAINING LANDSCAPED WORK.

FINISH PAVE AND COMPLETE SIDEWALKS.

REMOVE TRAPPED SEDIMENTS FROM COLLECTION DEVICES AS APPROPRIATE, AND THEN REMOVE TEMPORARY EROSION CONTROL MEASURES UPON COMPLETION OF FINAL STABILIZATION OF THE SITE.

PROJECT DESCRIPTION

THE PROJECT CONSISTS OF A BUILDING REDEVELOPMENT AND ADDITIONS WITH ASSOCIATED UTILITIES AND PARKING.

THE TOTAL AREA TO BE DISTURBED IS APPROXIMATELY 0.820 ACRES.

BASED ON THE USCS WEB SOIL SURVEY THE SOILS ON SITE CONSIST OF URBAN LAND WHICH HAS AN UNSPECIFIED HYDROLOGIC SOIL GROUP RATING, ASSUMED D.

THE STORMWATER RUNOFF FROM THE SITE WILL BE DISCHARGED VIA A CLOSED DRAINAGE SYSTEM TO THE CITY OF PORTSMOUTH CLOSED DRAINAGE SYSTEM WHICH ULTIMATELY FLOWS TO THE NORTH MILL POND.

GENERAL CONSTRUCTION NOTES

THE EROSION CONTROL PROCEDURES SHALL CONFORM TO SECTION 645 OF THE "STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION" OF THE NHDOT, AND "STORM WATER MANAGEMENT AND EROSION AND SEDIMENT CONTROL HANDBOOK FOR URBAN AND DEVELOPING AREAS IN NEW HAMPSHIRE". THE PROJECT IS TO BE MANAGED IN A MANNER THAT MEETS THE REQUIREMENTS AND INTENT OF RSA 430:53 AND CHAPTER AGR 3800 RELATIVE TO INVASIVE SPECIES.

DURING CONSTRUCTION AND THEREAFTER, EROSION CONTROL MEASURES ARE TO BE IMPLEMENTED AS NOTED. THE SMALLEST PRACTICAL AREA OF LAND SHOULD BE EXPOSED AT ANY ONE TIME DURING DEVELOPMENT. NO DISTURBED AREA SHALL BE LEFT UNSTABILIZED FOR MORE THAN 45 DAYS.

ANY DISTURBED AREAS WHICH ARE TO BE LEFT TEMPORARILY, AND WHICH WILL BE REGRADED LATER DURING CONSTRUCTION SHALL BE MACHINE HAY MULCHED AND SEEDED WITH RYE GRASS TO PREVENT EROSION.

THE PROJECT IS TO BE MANAGED IN A MANNER THAT MEETS THE REQUIREMENTS AND INTENT OF RSA 430:53 AND CHAPTER AGR 3800 RELATIVE TO INVASIVE SPECIES.

DUST CONTROL: DUST CONTROL MEASURES SHALL INCLUDE BUT ARE NOT LIMITED TO SPRINKLING WATER ON EXPOSED AREAS, COVERING LOADED DUMP TRUCKS LEAVING THE SITE, AND TEMPORARY MULCHING.

DUST CONTROL MEASURES SHALL BE UTILIZED SO AS TO PREVENT THE MIGRATION OF DUST FROM THE SITE TO ADJUTING AREAS.

IF TEMPORARY STABILIZATION PRACTICES, SUCH AS TEMPORARY VEGETATION AND MULCHING, DO NOT ADEQUATELY REDUCE DUST GENERATION, APPLICATION OF WATER OR CALCIUM CHLORIDE SHALL BE APPLIED IN ACCORDANCE WITH BEST MANAGEMENT PRACTICES.

SILTSOXX SHALL BE PERIODICALLY INSPECTED DURING THE LIFE OF THE PROJECT AND AFTER EACH STORM. ALL DAMAGED SILTSOXX SHALL BE REPAIRED. SEDIMENT DEPOSITS SHALL PERIODICALLY BE REMOVED AND DISPOSED IN A SECURED LOCATION.

ALL FILLS SHALL BE PLACED AND COMPACTED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS.

ALL NON-STRUCTURAL, SITE-FILL SHALL BE PLACED AND COMPACTED TO 90% MODIFIED PROCTOR DENSITY IN LAYERS NOT EXCEEDING 18 INCHES IN THICKNESS UNLESS OTHERWISE NOTED.

FROZEN MATERIAL OR SOFT, MUCKY OR HIGHLY COMPRESSIBLE MATERIAL, TRASH, WOODY DEBRIS, LEAVES, BRUSH OR ANY DELETERIOUS MATTER SHALL NOT BE INCORPORATED INTO FILLS.

FILL MATERIAL SHALL NOT BE PLACED ON FROZEN FOUNDATION SUBGRADE.

DURING CONSTRUCTION AND UNTIL ALL DEVELOPED AREAS ARE FULLY STABILIZED, ALL EROSION CONTROL MEASURES SHALL BE INSPECTED WEEKLY AND AFTER EACH ONE HALF INCH OF RAINFALL.

THE CONTRACTOR SHALL MODIFY OR ADD EROSION CONTROL MEASURES AS NECESSARY TO ACCOMMODATE PROJECT CONSTRUCTION.

ALL ROADWAYS AND PARKING AREAS SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE. ALL CUT AND FILL SLOPES SHALL BE SEEDDED/LOAMED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.

AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:

- BASE COURSE GRAVELS HAVE BEEN INSTALLED ON AREAS TO BE PAVED
- A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED
- A MINIMUM OF 3 INCHES OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIPRAP HAS BEEN INSTALLED
- EROSION CONTROL BLANKETS HAVE BEEN INSTALLED.
- IN AREAS TO BE PAVED, "STABLE" MEANS THAT BASE COURSE GRAVELS MEETING THE REQUIREMENTS OF NHDOT STANDARD FOR ROAD AND BRIDGE CONSTRUCTION, 2016, ITEM

304.2 HAVE BEEN INSTALLED.

STABILIZATION SHALL BE INITIATED ON ALL LOAM STOCKPILES, AND DISTURBED AREAS, WHERE CONSTRUCTION ACTIVITY SHALL NOT OCCUR FOR MORE THAN TWENTY-ONE (21) CALENDAR DAYS BY THE FOURTEENTH (14TH) DAY AFTER CONSTRUCTION ACTIVITY HAS PERMANENTLY OR TEMPORARILY CEASED IN THAT AREA.

STABILIZATION MEASURES TO BE USED INCLUDE:

- TEMPORARY SEEDING;
- MULCHING.

- ALL AREAS SHALL BE STABILIZED WITHIN 45 DAYS OF INITIAL DISTURBANCE.
- WHEN CONSTRUCTION ACTIVITY PERMANENTLY OR TEMPORARILY CEASES WITHIN 100 FEET OF NEARBY SURFACE WATERS OR DELINEATED WETLANDS, THE AREA SHALL BE STABILIZED WITHIN SEVEN (7) DAYS OR PRIOR TO A RAIN EVENT. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN THESE AREAS, SILTSOXX, MULCH BERMS, HAY BALE BARRIERS AND ANY EARTH/DIKES SHALL BE REMOVED ONCE PERMANENT MEASURES ARE ESTABLISHED.
- DURING CONSTRUCTION, RUNOFF WILL BE DIVERTED AROUND THE SITE WITH EARTH DIKES, PIPING OR STABILIZED CHANNELS WHERE POSSIBLE. SHEET RUNOFF FROM THE SITE WILL BE FILTERED THROUGH SILTSOXX, MULCH BERMS, HAY BALE BARRIERS, OR SILT SOCKS. ALL STORM DRAIN BASIN INLETS SHALL BE PROVIDED WITH FLARED END SECTIONS AND TRASH RACKS. THE SITE SHALL BE STABILIZED FOR THE WINTER BY OCTOBER 15.

MAINTENANCE AND PROTECTION

THE SILTSOXX BARRIER SHALL BE CHECKED AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.

SILTSOXX SHALL BE REMOVED ONCE SITE IS STABILIZED, AND DISTURBED AREAS RESULTING FROM SILTSOXX REMOVAL SHALL BE PERMANENTLY SEEDDED.

THE CATCH BASIN INLET BASKET SHALL BE INSPECTED WITHIN 24 HOURS AFTER EACH RAINFALL OR DAILY DURING EXTENDED PERIODS OF PRECIPITATION. REPAIRS SHALL BE MADE IMMEDIATELY, AS NECESSARY, TO PREVENT PARTICLES FROM REACHING THE DRAINAGE SYSTEM AND/OR CAUSING SURFACE FLOODING. SEDIMENT DEPOSITS SHALL BE REMOVED AFTER EACH STORM EVENT, OR MORE OFTEN IF THE FABRIC BECOMES CLOGGED.

WINTER NOTES

ALL PROPOSED VEGETATED AREAS THAT DO NOT EXHIBIT A MINIMUM OF 85% VEGETATED GROWTH BY OCTOBER 15, OR WHICH ARE DISTURBED AFTER OCTOBER 15, SHALL BE STABILIZED BY SEEDING AND INSTALLING EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 3:1, AND SEEDING AND PLACING 3 TO 4 TONS OF MULCH PER ACRE, SECURED WITH ANCHORED NETTING, ELSEWHERE. THE INSTALLATION OF EROSION CONTROL BLANKETS OR MULCH AND NETTING SHALL NOT OCCUR OVER ACCUMULATED SNOW OR ON FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAW OR SPRING MELT EVENTS.

ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85 PERCENT VEGETATIVE GROWTH BY OCTOBER 15, OR WHICH ARE DISTURBED AFTER OCTOBER 15, SHALL BE STABILIZED TEMPORARILY WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS;

AFTER OCTOBER 15, INCOMPLETE ROAD OR PARKING SURFACES, WHERE WORK HAS STOPPED FOR THE WINTER SEASON, SHALL BE PROTECTED WITH A MINIMUM OF 3 INCHES OF CRUSHED GRAVEL PER NHDOT ITEM 304.3, OR IF CONSTRUCTION IS TO CONTINUE THROUGH THE WINTER SEASON BE CLEARED OF ANY ACCUMULATED SNOW AFTER EACH STORM EVENT;

STOCKPILES

- LOCATE STOCKPILES A MINIMUM OF 50 FEET AWAY FROM CATCH BASINS, SWALES, AND CULVERTS.
- ALL STOCKPILES SHOULD BE SURROUNDED WITH TEMPORARY EROSION CONTROL MEASURES PRIOR TO THE ONSET OF PRECIPITATION.
- PERIMETER BARRIERS SHOULD BE MAINTAINED AT ALL TIMES, AND ADJUSTED AS NEEDED TO ACCOMMODATE THE DELIVERY AND REMOVAL OF MATERIALS FROM THE STOCKPILE. THE INTEGRITY OF THE BARRIER SHOULD BE INSPECTED AT THE END OF EACH WORKING DAY.
- PROTECT ALL STOCKPILES FROM STORMWATER RUN-OFF USING TEMPORARY EROSION CONTROL MEASURES SUCH AS BERMS, SILT SOCK, OR OTHER APPROVED PRACTICE TO PREVENT MIGRATION OF MATERIAL BEYOND THE IMMEDIATE CONFINES OF THE STOCKPILES.

CONCRETE WASHOUT AREA

THE FOLLOWING ARE THE ONLY NON-STORMWATER DISCHARGES ALLOWED. ALL OTHER NON-STORMWATER DISCHARGES ARE PROHIBITED ON SITE:

- THE CONCRETE DELIVERY TRUCKS SHALL, WHENEVER POSSIBLE, USE WASHOUT FACILITIES AT THEIR OWN PLANT OR DISPATCH FACILITY.
- IF IT IS NECESSARY, SITE CONTRACTOR SHALL DESIGNATE SPECIFIC WASHOUT AREAS AND DESIGN FACILITIES TO HANDLE ANTICIPATED WASHOUT WATER;
- CONTRACTOR SHALL LOCATE WASHOUT AREAS AT LEAST 150 FEET AWAY FROM STORM DRAINS, SWALES AND SURFACE WATERS OR DELINEATED WETLANDS;
- INSPECT WASHOUT FACILITIES DAILY TO DETECT LEAKS OR TEARS AND TO IDENTIFY WHEN MATERIALS NEED TO BE REMOVED.

ALLOWABLE NON-STORMWATER DISCHARGES

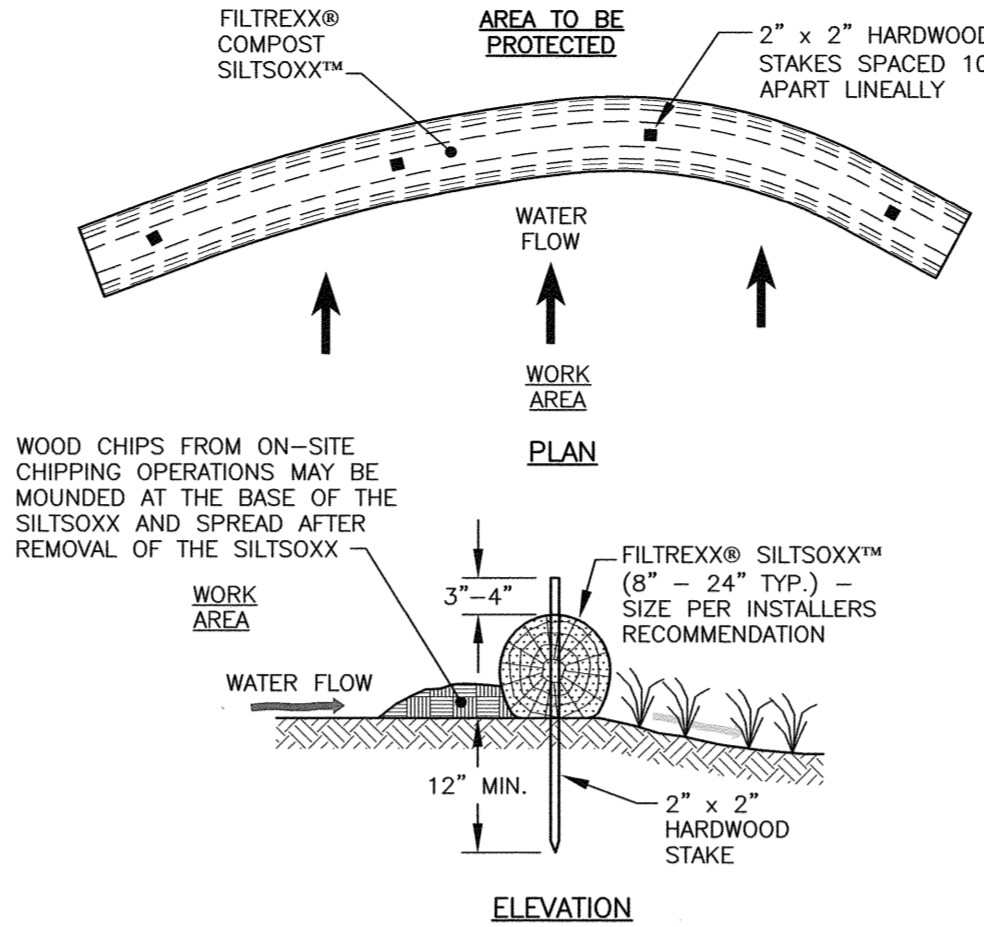
- FIRE-FIGHTING ACTIVITIES;
- FIRE HYDRANT FLUSHING;
- WATERS USED TO WASH VEHICLES WHERE DETERGENTS ARE NOT USED;
- WATER USED TO CONTROL DUST;
- POTABLE WATER INCLUDING UNCONTAMINATED WATER LINE FLUSHING;
- ROUTINE EXTERNAL BUILDING WASH DOWN WHERE DETERGENTS ARE NOT USED;
- PAVEMENT WASH WATERS WHERE DETERGENTS ARE NOT USED;
- UNCONTAMINATED AIR CONDITIONING/COMPRESSOR CONDENSATION;
- UNCONTAMINATED GROUND WATER OR SPRING WATER;
- FOUNDATION OR FOOTING DRAINS WHICH ARE UNCONTAMINATED;
- UNCONTAMINATED EXCAVATION DEWATERING;
- LANDSCAPE IRRIGATION.

WASTE DISPOSAL

- WASTE MATERIAL
 - ALL WASTE MATERIALS SHALL BE COLLECTED AND STORED IN SECURELY LIDDED RECEPITACLES. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE SHALL BE DEPOSITED IN A DUMPSTER;
 - NO CONSTRUCTION WASTE MATERIALS SHALL BE BURIED ON SITE;
 - ALL PERSONNEL SHALL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL BY THE SUPERINTENDENT.
- HAZARDOUS WASTE
 - ALL HAZARDOUS WASTE MATERIALS SHALL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER;
 - SITE PERSONNEL SHALL BE INSTRUCTED IN THESE PRACTICES BY THE SUPERINTENDENT.
- SANITARY WASTE
 - ALL SANITARY WASTE SHALL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF ONCE PER WEEK BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR.

BLASTING NOTES

- CONTRACTOR SHALL CONTACT THE NHDES AND/OR LOCAL JURISDICTION PRIOR TO COMMENCING ANY BLASTING ACTIVITIES.
- FOR ANY PROJECT FOR WHICH BLASTING OF BEDROCK IS ANTICIPATED, THE APPLICANT SHALL SUBMIT A BLASTING PLAN THAT IDENTIFIES:
 - WHERE THE BLASTING ACTIVITIES ARE ANTICIPATED TO OCCUR;
 - THE ESTIMATED QUANTITY OF BLAST ROCK IN CUBIC YARDS; AND
 - SITE-SPECIFIC BLASTING BEST MANAGEMENT PRACTICES.



WOOD CHIPS FROM ON-SITE CHIPPING OPERATIONS MAY BE MOUND AT THE BASE OF THE SILTSOXX AND SPREAD AFTER REMOVAL OF THE SILTSOXX

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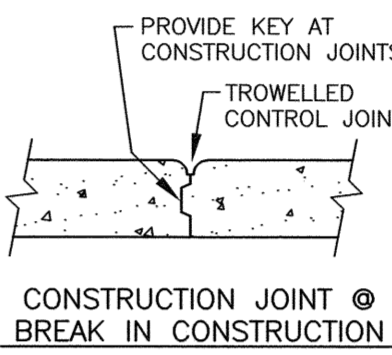
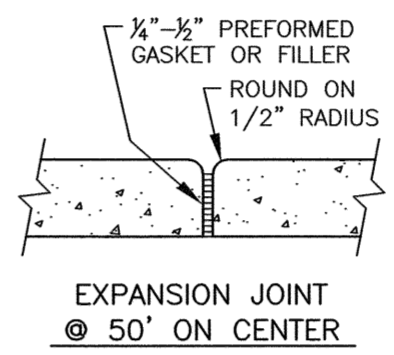
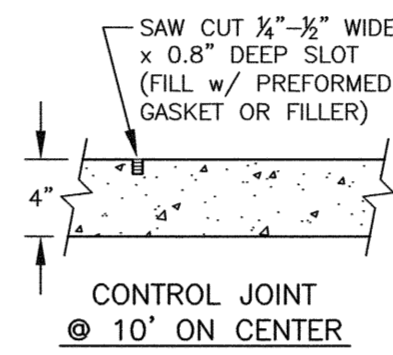
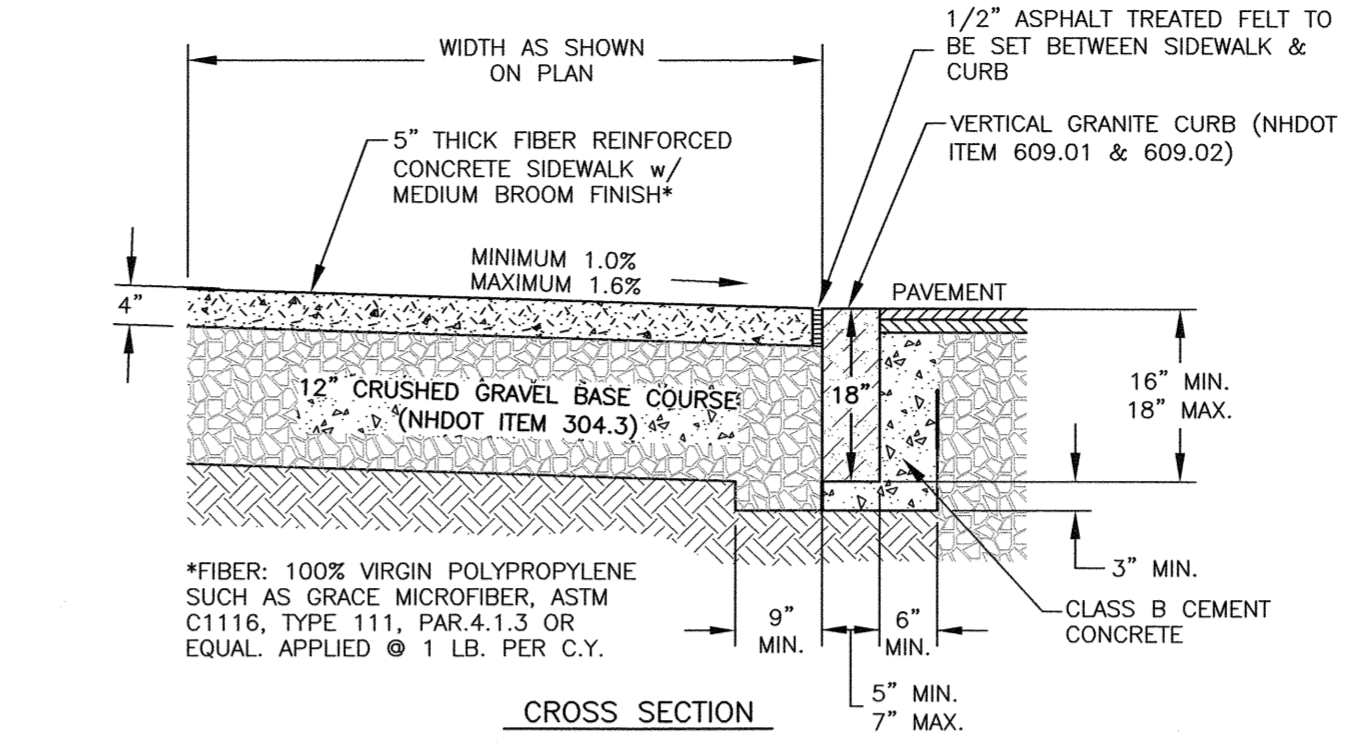
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C CONCRETE SIDEWALK W/FLUSH GRANITE CURB NTS

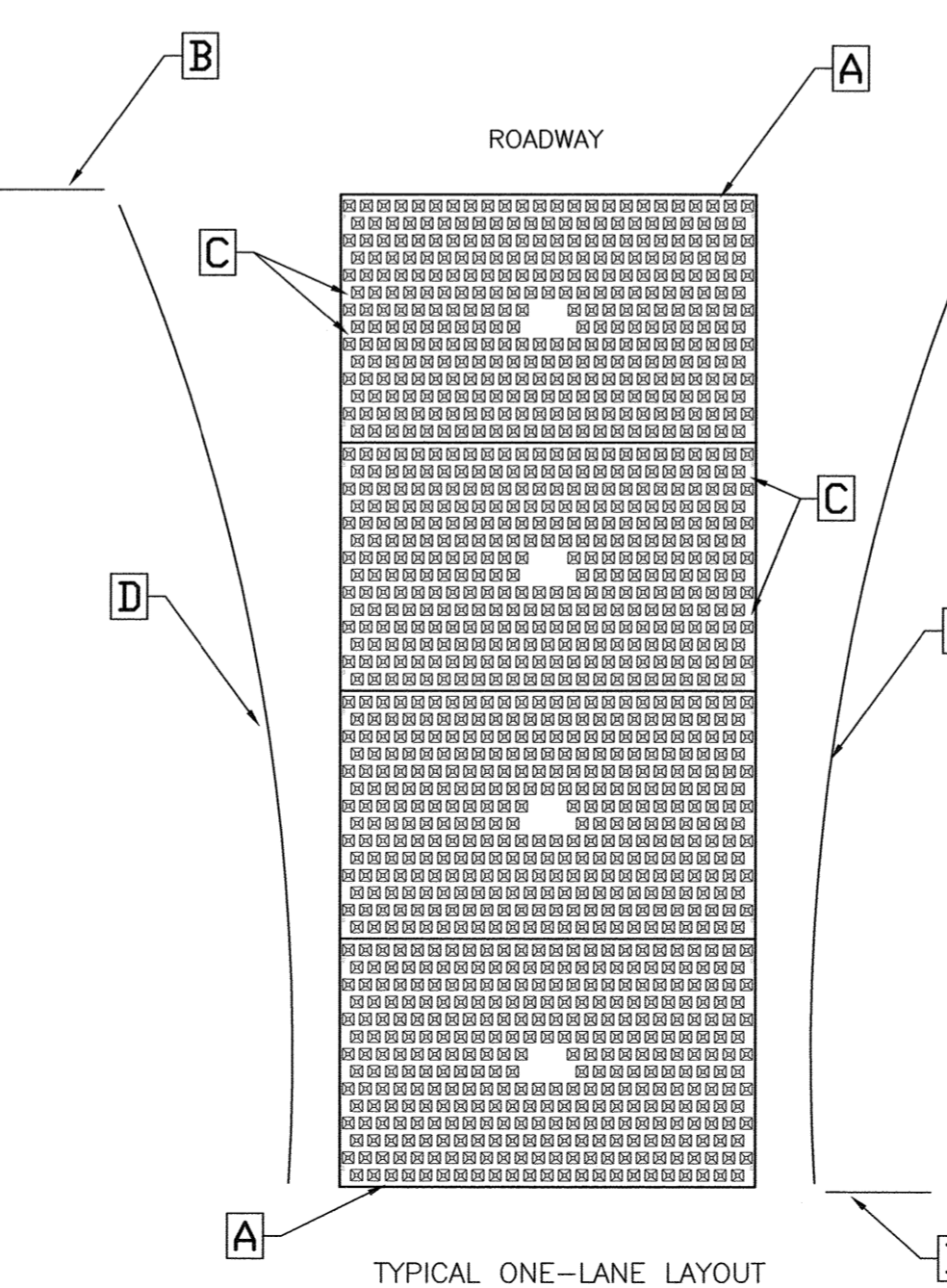
FILTREXX® SILTSOXX™ FILTRATION SYSTEM (IF NEEDED) NTS

FODS TRACKOUT CONTROL SYSTEM INSTALLATION:

THE PURPOSE AND DESIGN OF THE FODS TRACKOUT CONTROL SYSTEM IS TO EFFECTIVELY REMOVE MOST SEDIMENT FROM VEHICLE TIRES AS THEY EXIT A DISTURBED LAND AREA ONTO A PAVED STREET. THIS MANUAL IS A PLATFORM FROM WHICH TO INSTALL A FODS TRACKOUT CONTROL SYSTEM. (NOTE: THIS IS NOT A ONE SIZE FITS ALL GUIDE.) THE INSTALLATION MAY NEED TO BE MODIFIED TO MEET THE EXISTING CONDITIONS, EXPECTATIONS, OR DEMANDS OF A PARTICULAR SITE. THIS IS A GUIDELINE. ULTIMATELY THE FODS TRACKOUT CONTROL SYSTEM SHOULD BE INSTALLED SAFELY WITH PROPER ANCHORING AND SIGNS PLACED AT THE ENTRANCE AND EXIT TO CAUTION USERS AND OTHERS.

KEY NOTES:

- FODS TRACKOUT CONTROL SYSTEM MAT.
- FODS SAFETY SIGN.
- ANCHOR POINT.
- SILT OR ORANGE CONSTRUCTION FENCE.



INSTALLATION:

- THE SITE WHERE THE FODS TRACKOUT CONTROL SYSTEM IS TO BE PLACED SHOULD CORRESPOND TO BEST MANAGEMENT PRACTICES AS MUCH AS POSSIBLE. THE SITE WHERE FODS TRACKOUT CONTROL SYSTEM IS PLACED SHOULD ALSO MEET OR EXCEED THE LOCAL JURISDICTION OR STORM WATER POLLUTION PREVENTION PLAN (SWPPP) REQUIREMENTS.
- CALL FOR UTILITY LOCATES 3 BUSINESS DAYS IN ADVANCE OF THE FODS TRACKOUT CONTROL SYSTEM INSTALLATION FOR THE MARKING OF UNDERGROUND UTILITIES. CALL THE UTILITY NOTIFICATION CENTER AT 811.
- ONCE THE SITE IS ESTABLISHED WHERE FODS TRACKOUT CONTROL SYSTEM IS TO BE PLACED, ANY EXCESSIVE UNEVEN TERRAIN SHOULD BE LEVELED OUT OR REMOVED SUCH AS LARGE ROCKS, LANDSCAPING MATERIALS, OR SUDDEN ABRUPT CHANGES IN ELEVATION.
- THE INDIVIDUAL MATS CAN START TO BE PLACED INTO POSITION. THE FIRST MAT SHOULD BE PLACED NEXT TO THE CLOSEST POINT OF EGRESS. THIS WILL ENSURE THAT THE VEHICLE WILL EXIT STRAIGHT FROM THE SITE ONTO THE PAVED SURFACE.
- AFTER THE FIRST MAT IS PLACED DOWN IN THE PROPER LOCATION, MATS SHOULD BE ANCHORED TO PREVENT THE POTENTIAL MOVEMENT WHILE THE ADJOINING MATS ARE INSTALLED. ANCHORS SHOULD BE PLACED AT EVERY ANCHOR POINT (IF FEASIBLE) TO HELP MAINTAIN THE MAT IN ITS CURRENT POSITION.
- AFTER THE FIRST MAT IS ANCHORED IN ITS PROPER PLACE, AN H BRACKET SHOULD BE PLACED AT THE END OF THE FIRST MAT BEFORE ANOTHER MAT IS PLACED ADJACENT TO THE FIRST MAT.
- ONCE THE SECOND MAT IS PLACED ADJACENT TO THE FIRST MAT, MAKE SURE THE H BRACKET IS CORRECTLY SITUATED BETWEEN THE TWO MATS, AND SLIDE MATS TOGETHER.
- NEXT THE CONNECTOR STRAPS SHOULD BE INSTALLED TO CONNECT THE TWO MATS TOGETHER.
- UPON PLACEMENT OF EACH NEW MAT IN THE SYSTEM, THAT MAT SHOULD BE ANCHORED AT EVERY ANCHOR POINT TO HELP STABILIZE THE MAT AND ENSURE THE SYSTEM IS CONTINUOUS WITH NO GAPS IN BETWEEN THE MATS.
- SUCCESSIVE MATS CAN THEN BE PLACED TO CREATE THE FODS TRACKOUT CONTROL SYSTEM REPEATING THE ABOVE STEPS.

USE AND MAINTENANCE

- VEHICLES SHOULD TRAVEL DOWN THE LENGTH OF THE TRACKOUT CONTROL SYSTEM AND NOT CUT ACROSS THE MATS.
- DRIVERS SHOULD TURN THE WHEEL OF THEIR VEHICLES SUCH THAT THE VEHICLE WILL MAKE A SHALLOW S-TURN ROUTE DOWN THE LENGTH OF THE FODS TRACKOUT CONTROL SYSTEM.
- MATS SHOULD BE CLEANED ONCE THE VOIDS BETWEEN THE PYRAMIDS BECOME FULL OF SEDIMENT. TYPICALLY THIS WILL NEED TO BE PERFORMED WITHIN TWO WEEKS AFTER A STORM EVENT. BRUSHING IS THE PREFERRED METHOD OF CLEANING, EITHER MANUALLY OR MECHANICALLY.
- THE USE OF ICE MELT, ROCK SALT, SNOW MELT, DE-ICER, ETC. SHOULD BE UTILIZED AS NECESSARY DURING THE WINTER MONTHS AND AFTER A SNOW EVENT TO PREVENT ICE BUILDUP.

REMOVAL

- REMOVAL OF FODS TRACKOUT CONTROL SYSTEM IS REVERSE ORDER OF INSTALLATION.
- STARTING WITH THE LAST MAT, THE MAT THAT IS PLACED AT THE INNERMOST POINT OF THE SITE OR THE MAT FURTHEST FROM THE EXIT OR PAVED SURFACE SHOULD BE REMOVED FIRST.
- THE ANCHORS SHOULD BE REMOVED.
- THE CONNECTOR STRAPS SHOULD BE UNBOLTED AT ALL LOCATIONS IN THE FODS TRACKOUT CONTROL SYSTEM.
- STARTING WITH THE LAST MAT IN THE SYSTEM, EACH SUCCESSIVE MAT SHOULD THEN BE MOVED AND STACKED FOR LOADING BY FORKLIFT OR EXCAVATOR ONTO A TRUCK FOR REMOVAL FROM THE SITE.

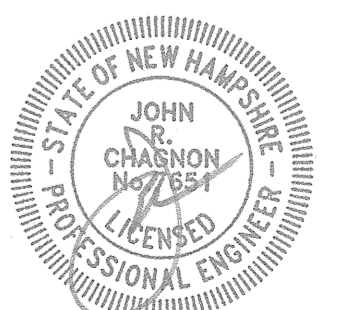
B FODS (USE AS REQUIRED) NTS

NOTES:

- THE CONTRACTOR SHALL NOTIFY DIG SAFE AT 1-888-DIG-SAFE (1-888-344-7233) AT LEAST 72 HOURS PRIOR TO COMMENCING ANY EXCAVATION ON PUBLIC OR PRIVATE PROPERTY.
- UNDERGROUND UTILITY LOCATIONS ARE BASED UPON BEST AVAILABLE EVIDENCE AND ARE NOT FIELD VERIFIED. LOCATING AND PROTECTING ANY ABOVEGROUND OR UNDERGROUND UTILITIES IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND/OR THE OWNER. UTILITY CONFLICTS SHOULD BE REPORTED AT ONCE TO THE DESIGN ENGINEER.
- CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH THE "NEW HAMPSHIRE STORMWATER MANUAL, VOLUME 3, EROSION AND SEDIMENT CONTROLS DURING CONSTRUCTION. (NHDES DECEMBER 2008).

SITE REDEVELOPMENT 361 HANOVER STREET PORTSMOUTH, N.H.

NO.	DESCRIPTION	DATE
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REVISIONS		

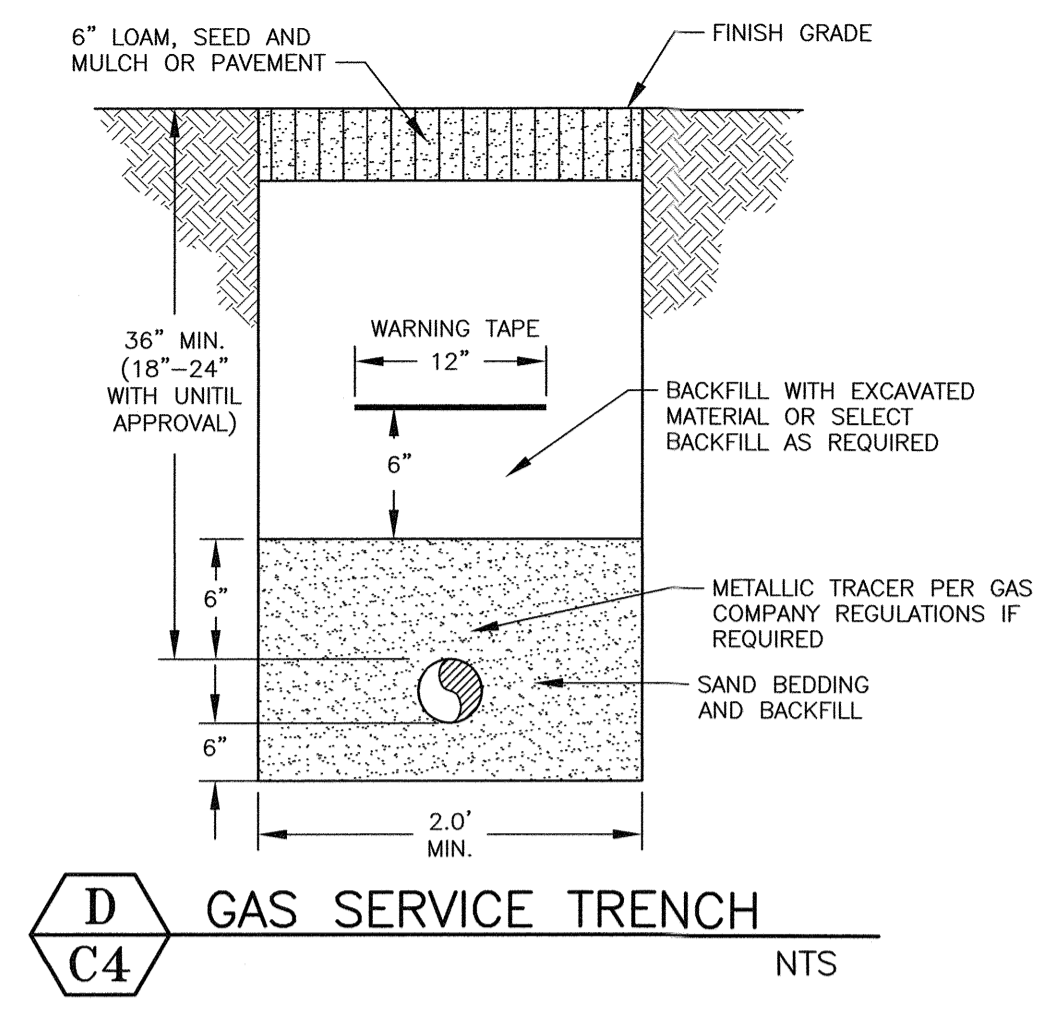


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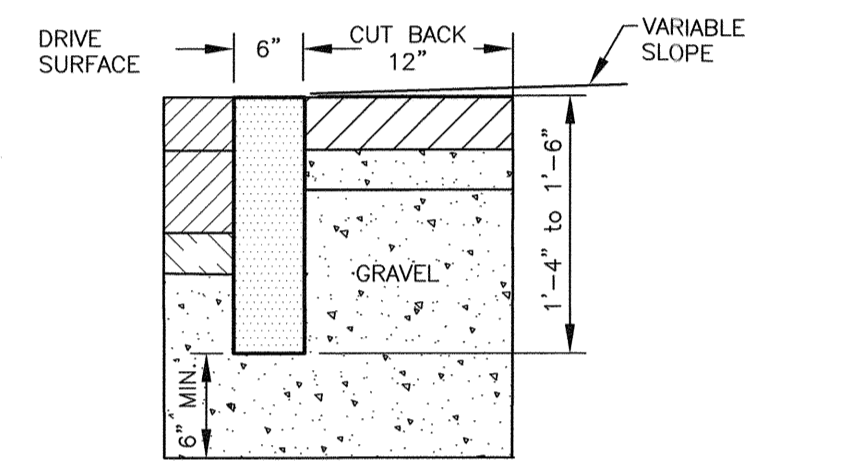
EROSION PROTECTION NOTES AND DETAILS **D1**

NOTES:

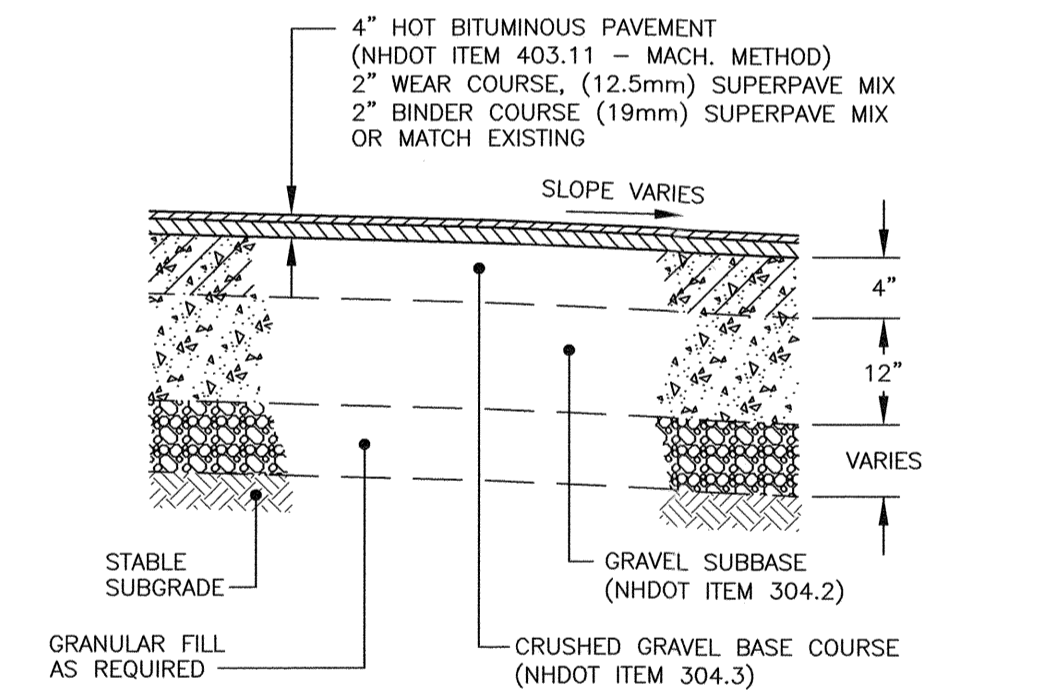
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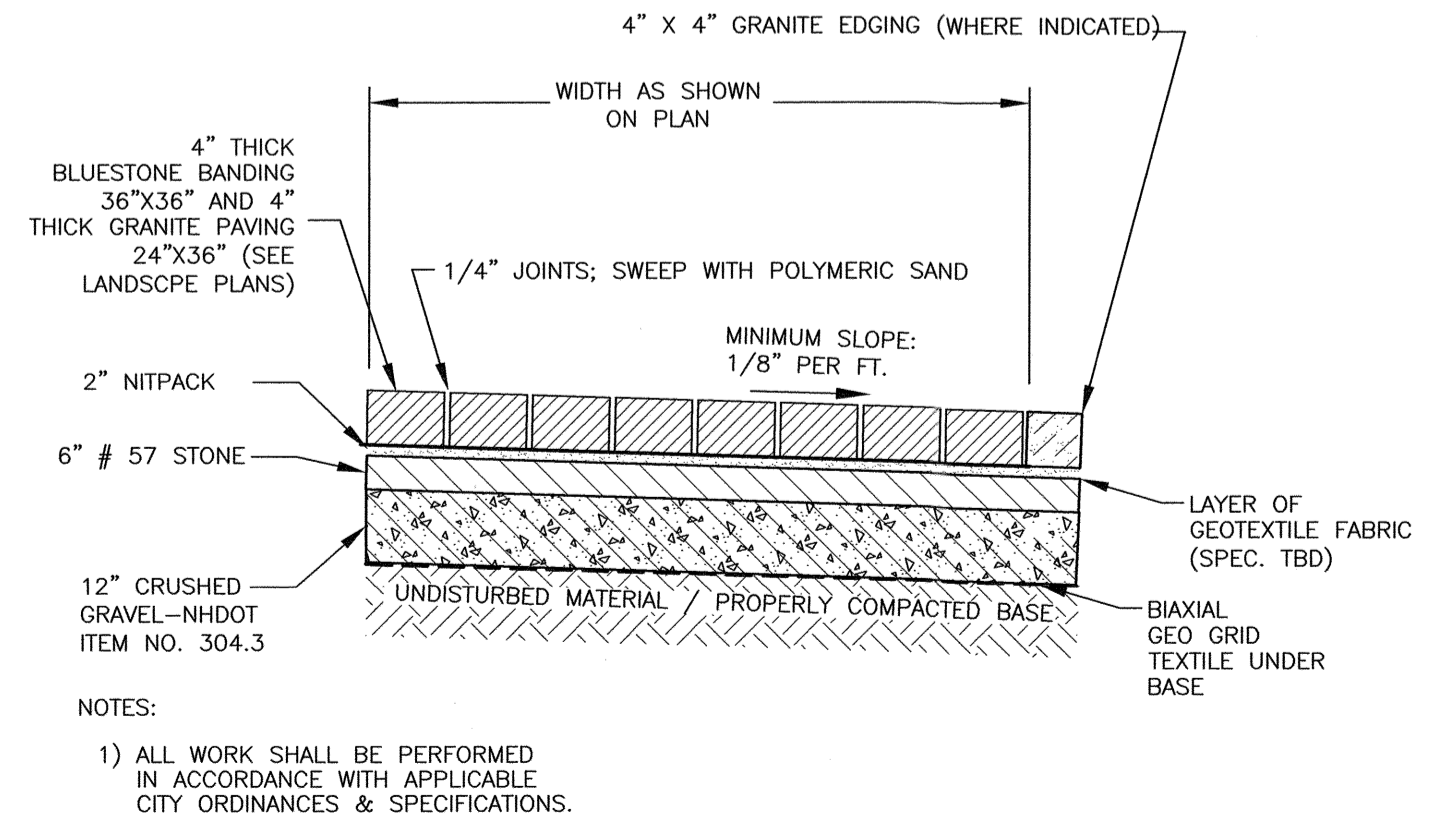
MIN. LENGTH OF CURB STONES 3FT.
MAX. LENGTH OF CURB STONES 10FT.
MAX. LENGTH OF STRAIGHT CURB STONES LAID ON CURVES SEE CHART
NOTE: ADJOINING STONES SHALL HAVE THE SAME OR APPROXIMATE LENGTH.



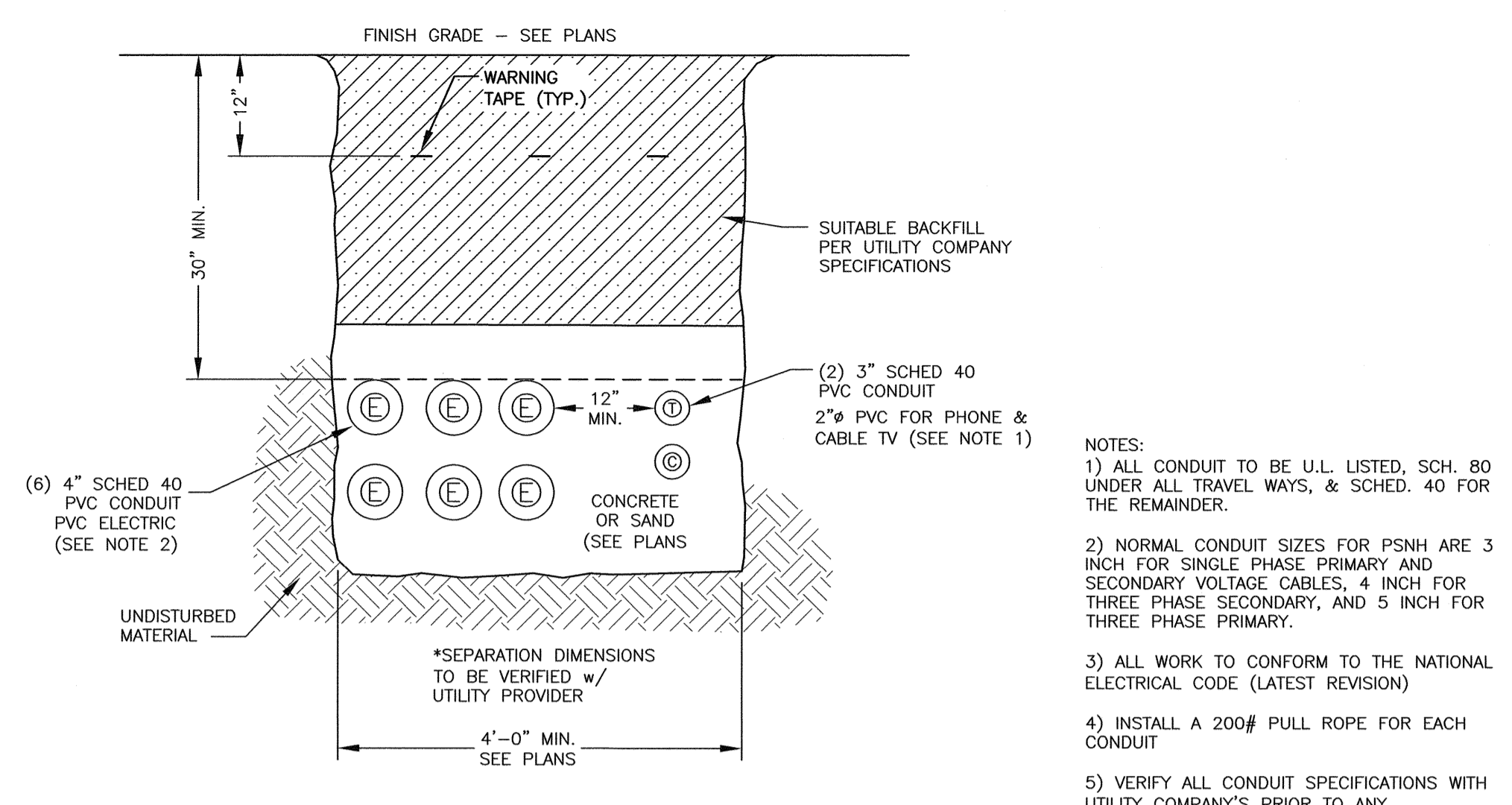
E C3 FLUSHED GRANITE CURB NTS



F C3 TYPICAL PAVEMENT CROSS-SECTION NTS

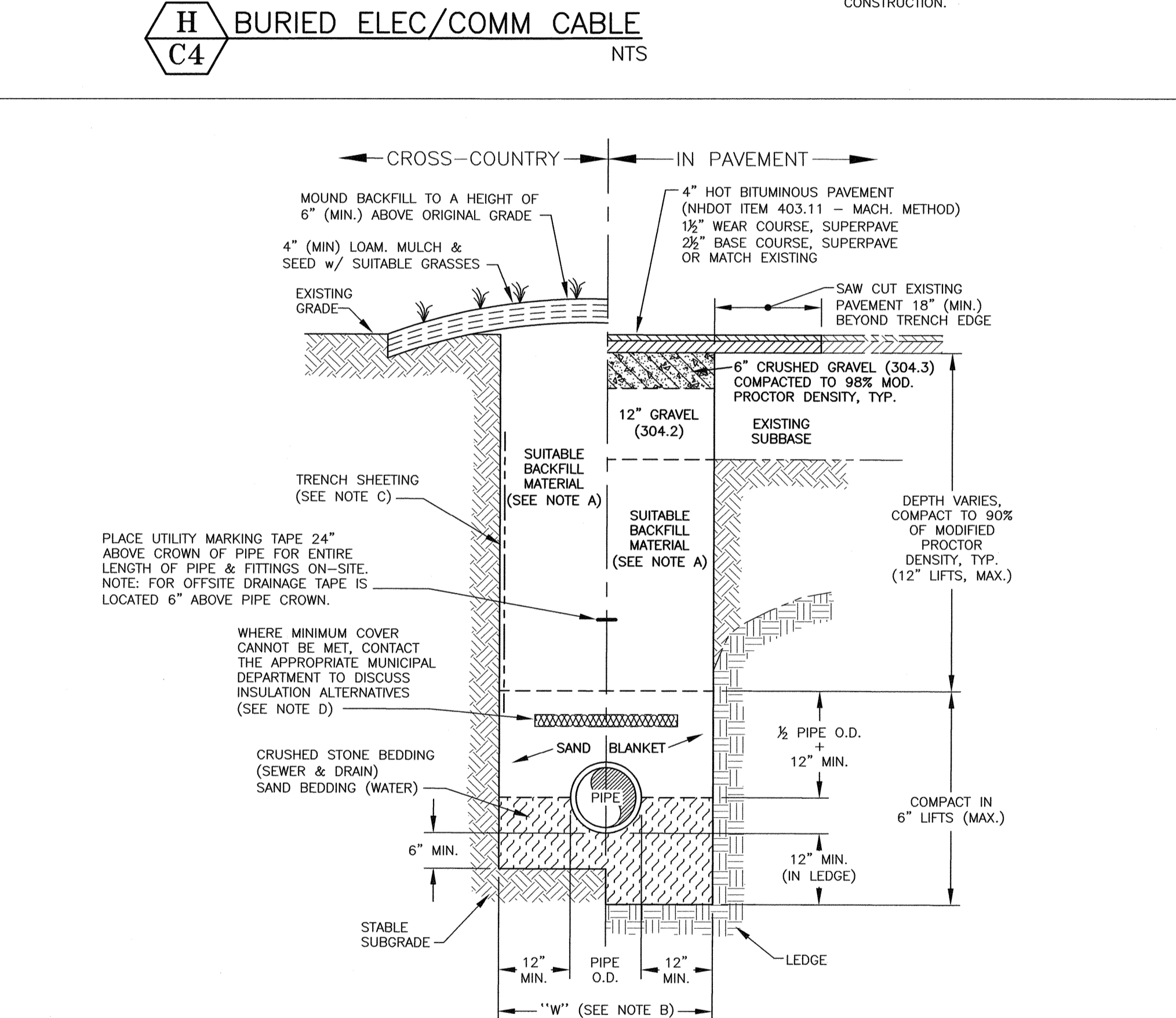


G C3 COBBLE / BLUESTONE DETAIL (DRIVEABLE) NTS



NOTES:

- 1) ALL CONDUIT TO BE U.L. LISTED, SCH. 80 UNDER ALL TRAVEL WAYS, & SCHED. 40 FOR THE REMAINDER.
- 2) NORMAL CONDUIT SIZES FOR PSNH ARE 3 INCH FOR SINGLE PHASE PRIMARY AND SECONDARY VOLTAGE CABLES, 4 INCH FOR THREE PHASE SECONDARY, AND 5 INCH FOR THREE PHASE PRIMARY.
- 3) ALL WORK TO CONFORM TO THE NATIONAL ELECTRICAL CODE (LATEST REVISION)
- 4) INSTALL A 200# PULL ROPE FOR EACH CONDUIT
- 5) VERIFY ALL CONDUIT SPECIFICATIONS WITH UTILITY COMPANY'S PRIOR TO ANY CONSTRUCTION.



TRENCH NOTES:

A) TRENCH BACKFILL:
- IN PAVED AREAS, SUITABLE MATERIAL FOR TRENCH BACKFILL SHALL BE THE NATURAL MATERIAL EXCAVATED DURING CONSTRUCTION, BUT SHALL EXCLUDE DEBRIS, PIECES OF PAVEMENT, ORGANIC MATTER, TOP SOIL, ALL WET OR SOFT MUCK, PEAT OR CLAY; ALL EXCAVATED LEDGE MATERIAL, AND ALL ROCKS OVER SIX INCHES IN LARGEST DIMENSION, OR ANY MATERIALS DEEMED TO BE UNACCEPTABLE BY THE ENGINEER.

- IN CROSS-COUNTRY CONSTRUCTION, SUITABLE MATERIAL SHALL BE AS DESCRIBED ABOVE, EXCEPT THAT THE ENGINEER MAY PERMIT THE USE OF TOP SOIL, LOAM, MUCK OR PEAT, IF HE IS SATISFIED THAT THE COMPLETED CONSTRUCTION WILL BE ENTIRELY STABLE.

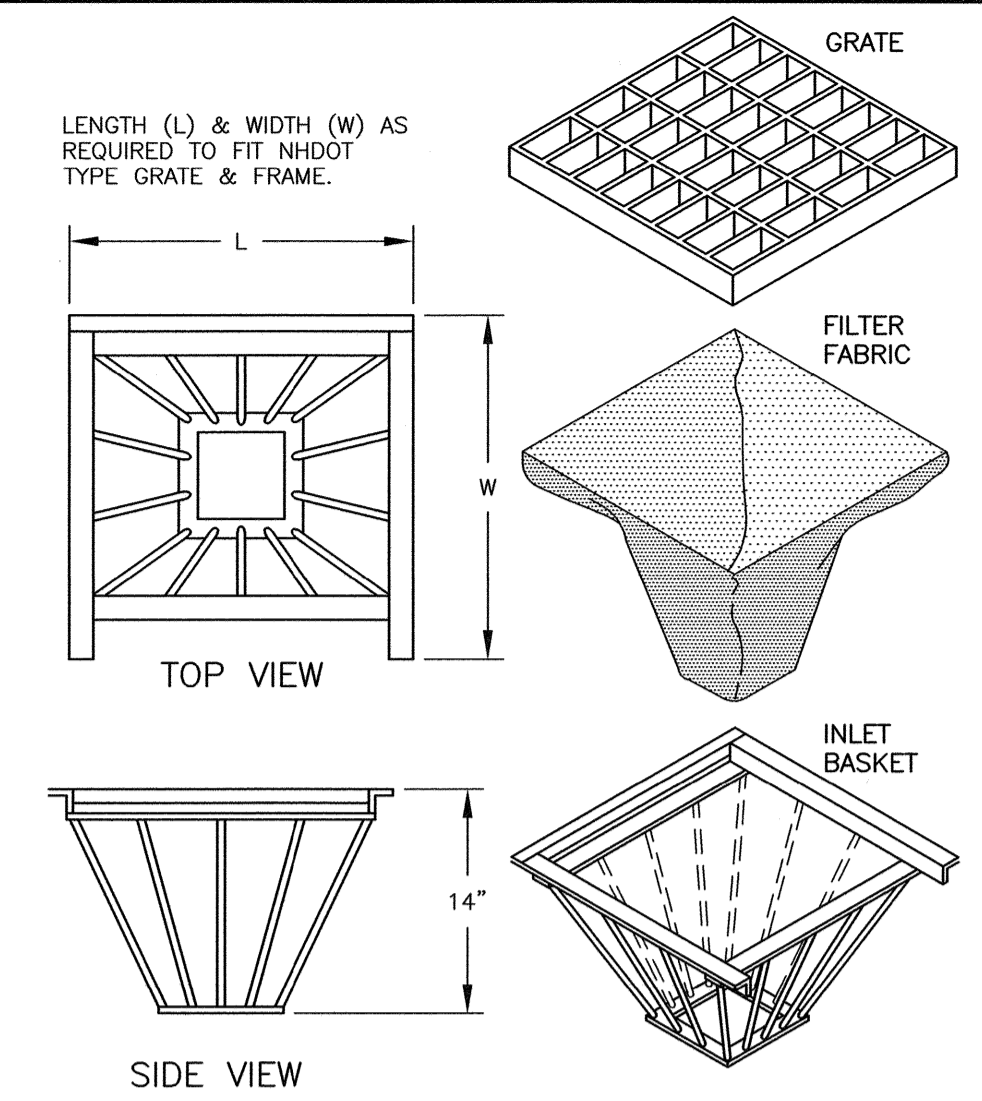
B) "W" = MAXIMUM ALLOWABLE TRENCH WIDTH TO A PLANE 12 INCHES ABOVE THE PIPE. FOR PIPES 15 INCHES NOMINAL DIAMETER OR LESS, W SHALL BE NO MORE THAN 36 INCHES. FOR PIPES GREATER THAN 15 INCHES NOMINAL DIAMETER, W SHALL BE 24 INCHES PLUS PIPE O.D..

C) TRENCH SHEETING:
THE CONTRACTOR IS SOLELY RESPONSIBLE FOR SAFE EXCAVATION PRACTICES.

D) MINIMUM PIPE COVER FOR UTILITY MAINS (UNLESS GOVERNED BY OTHER CODES):
5' MINIMUM FOR SEWER (IN PAVEMENT)
4' MINIMUM FOR SEWER (CROSS COUNTRY)
3' MINIMUM FOR STORMWATER DRAINS
5' MINIMUM FOR WATER MAINS

E) ALL PAVEMENT CUTS SHALL BE REPAIRED BY THE INFRARED HEAT METHOD.

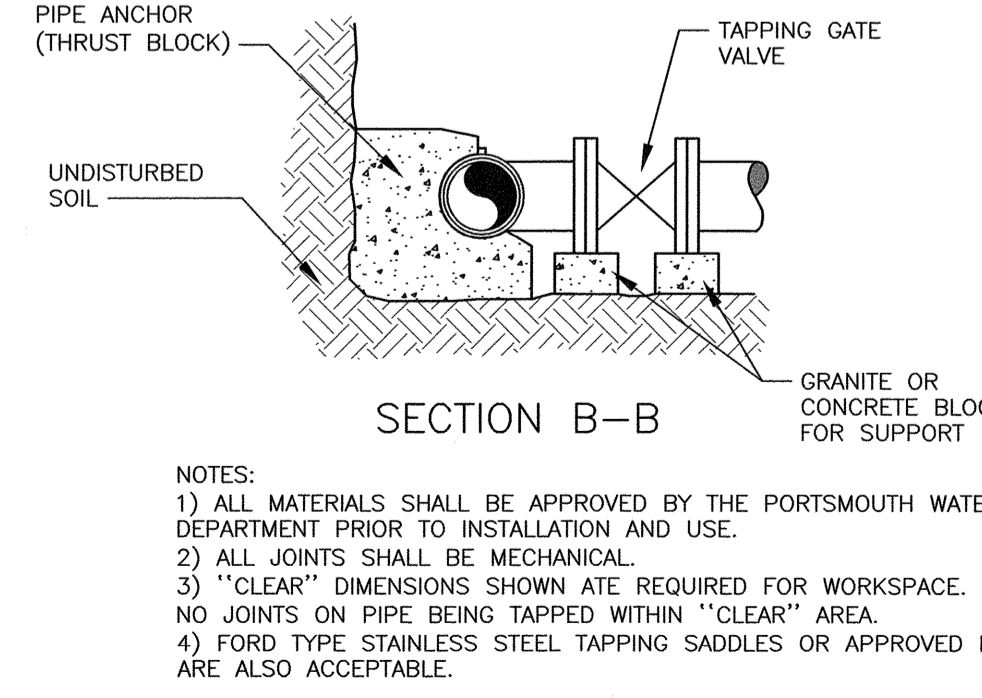
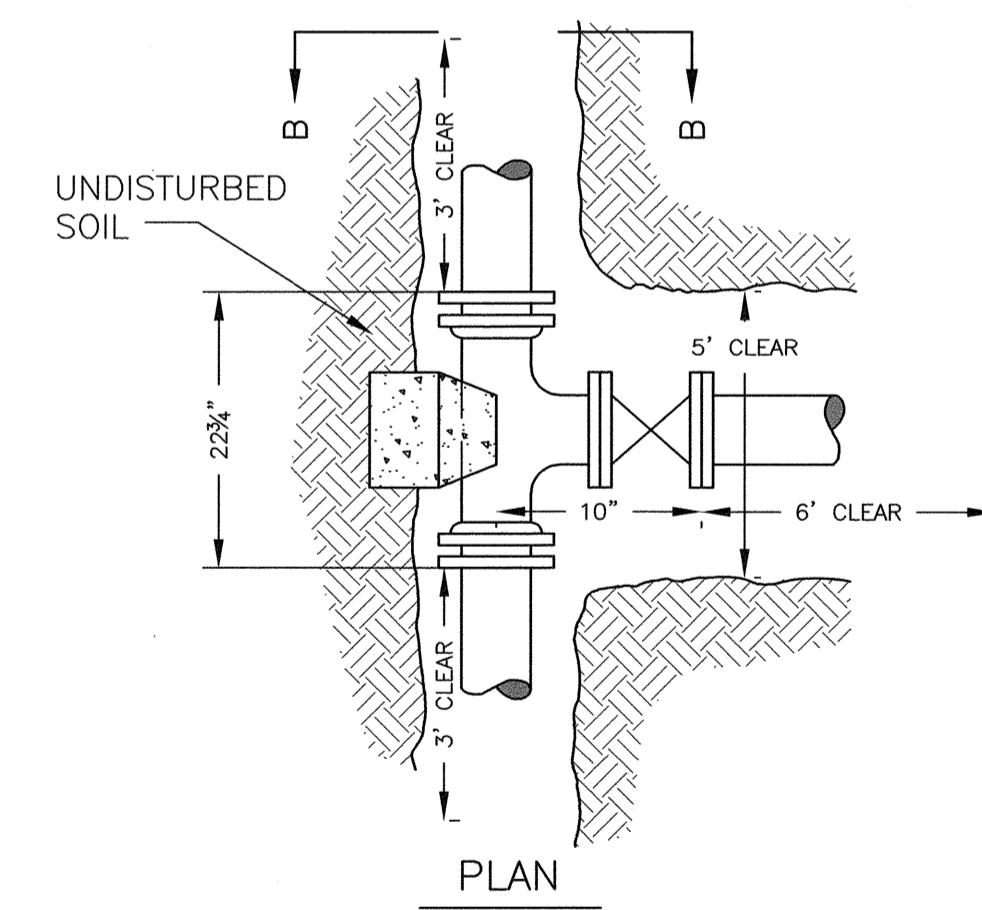
I C4 TYPICAL PIPE TRENCH NTS



NOTES:

- 1) INLET BASKETS SHALL BE INSTALLED IMMEDIATELY AFTER CATCH BASIN CONSTRUCTION IS COMPLETE AND SHALL REMAIN IN PLACE AND BE MAINTAINED UNTIL PAVEMENT BINDER COURSE IS COMPLETE.
- 2) FILTER FABRIC SHALL BE PUSHED DOWN AND FORMED TO THE SHAPE OF THE BASKET. THE SHEET OF FABRIC SHALL BE LARGE ENOUGH TO BE SUPPORTED BY THE BASKET FRAME WHEN HOLDING SEDIMENT AND, SHALL EXTEND AT LEAST 6" PAST THE FRAME. THE INLET GRATE SHALL BE PLACED OVER THE BASKET/FRAME AND WILL SERVE AS THE FABRIC ANCHOR.
- 3) THE FILTER FABRIC SHALL BE A GEOTEXTILE FABRIC, POLYESTER, POLYPROPYLENE, STABILIZED NYLON, POLYETHYLENE, OR POLYVINYLIDENE CHLORIDE MEETING THE FOLLOWING SPECIFICATIONS:
-RAB STRENGTH: 45 LB. MIN. IN ANY PRINCIPAL DIRECTION (ASTM D1682)
-MULLEN BURST STRENGTH: MIN. 60 psi (ASTM D774)
- 4) THE FABRIC SHALL HAVE AN OPENING NO GREATER THAN A NUMBER 20 U.S. STANDARD SIEVE AND A MINIMUM PERMEABILITY OF 120 gpm/s.f. (MULTIPLY THE PERMITTIVITY IN SEC.-1 FROM ASTM 54491-85 CONSTANT HEAD TEST USING THE CONVERSION FACTOR OF 74.)
- 5) THE INLET BASKET SHALL BE INSPECTED WITHIN 24 HOURS AFTER EACH RAINFALL OR DAILY DURING EXTENDED PERIODS OF PRECIPITATION. REPAIRS SHALL BE MADE IMMEDIATELY, AS NECESSARY, TO PREVENT PARTICLES FROM REACHING THE DRAINAGE SYSTEM AND/OR CAUSING SURFACE FLOODING.
- 6) SEDIMENT DEPOSITS SHALL BE REMOVED AFTER EACH STORM EVENT, OR MORE OFTEN IF THE FABRIC BECOMES CLOGGED.

J C5 CATCH BASIN INLET BASKET NTS



NOTES:

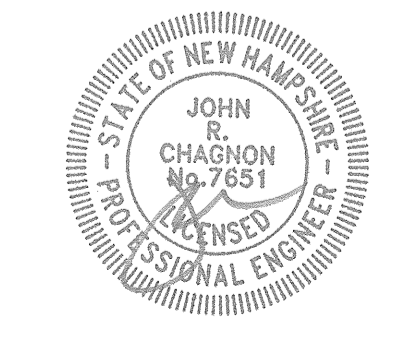
- 1) ALL MATERIALS SHALL BE APPROVED BY THE PORTSMOUTH WATER DEPARTMENT PRIOR TO INSTALLATION AND USE.
- 2) ALL JOINTS SHALL BE MECHANICAL.
- 3) "CLEAR" DIMENSIONS SHOWN ARE REQUIRED FOR WORKSPACE.
- 4) NO JOINTS ON PIPE BEING TAPPED WITHIN "CLEAR" AREA.
- 5) FORD TYPE STAINLESS STEEL TAPPING SADDLES OR APPROVED EQUAL ARE ALSO ACCEPTABLE.

K C4 TAPPING SLEEVE AND GATE NTS

SITE REDEVELOPMENT
361 HANOVER STREET
PORTSMOUTH, N.H.

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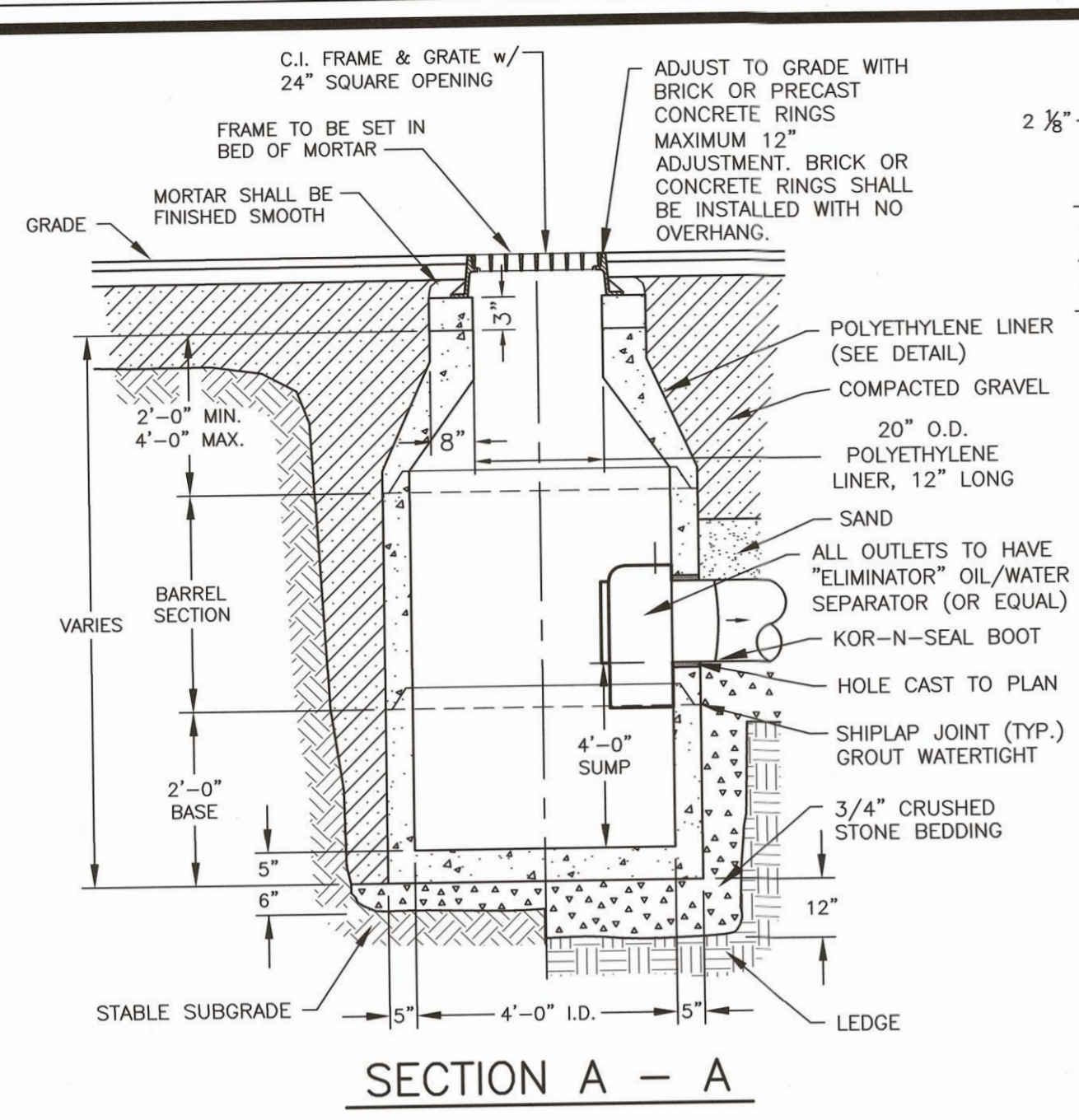


SCALE: AS SHOWN MARCH 2025

DETAILS **D2**

NOTES:

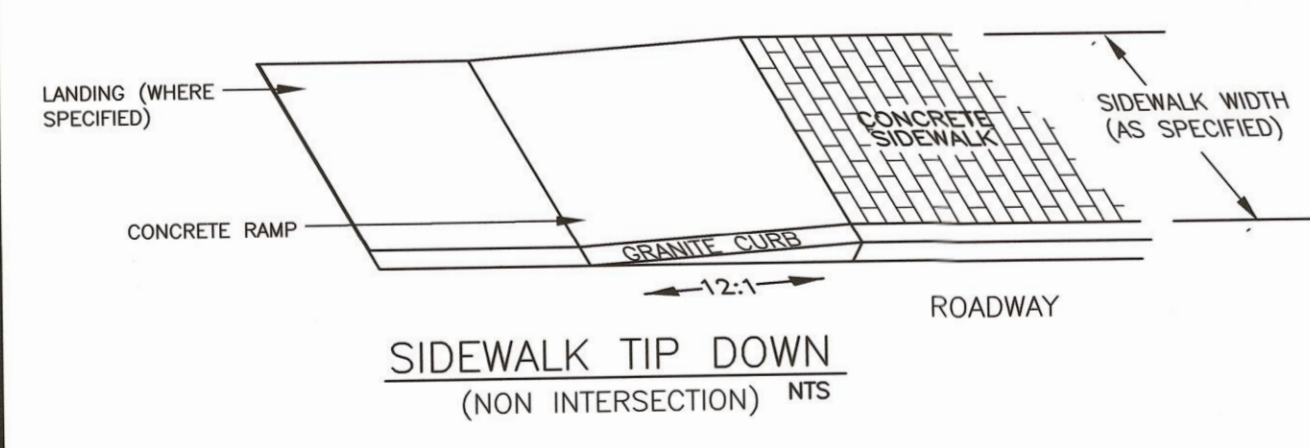
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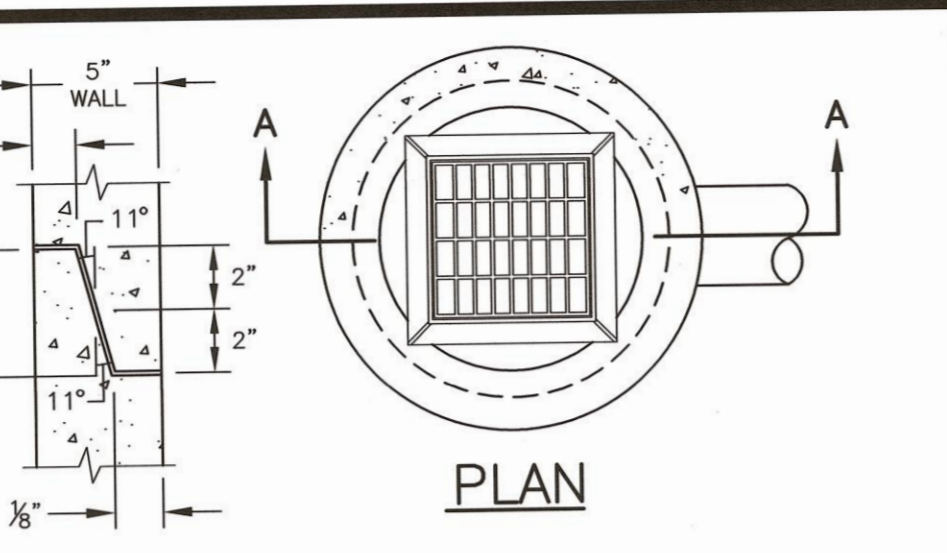
L
C5 CATCH BASIN DETAIL NTS

CATCH BASIN POLYETHYLENE LINER NOTES:

1. POLYETHYLENE LINER (ITEM 604.0007) SHALL BE FABRICATED AT THE SHOP. DOWNSPOUT SHALL BE EXTRUSION FILLET WELDED TO THE POLYETHYLENE SHEET.
2. PLACE A CONTINUOUS BEAD OF AN APPROVED SILICONE SEALANT (SUBSIDIARY TO ITEM 604.0007) BETWEEN FRAME AND POLYETHYLENE SHEET.
3. PLACE CLASS AA CONCRETE TO 2" BELOW THE TOP OF THE GRATE ELEVATION (SUBSIDIARY TO DRAINAGE STRUCTURE).
4. USE ON DRAINAGE STRUCTURES 4" MIN. DIAMETER ONLY.
5. TRIM POLYETHYLENE SHEET A MAXIMUM OF 4" OUTSIDE THE FLANGE ON THE FRAME FOR THE CATCH BASIN BEFORE PLACING CONCRETE (EXCEPT AS SHOWN WHEN USED WITH 3-FLANGE FRAME AND CURB).
6. THE CENTER OF THE GRATE & FRAME MAY BE SHIFTED A MAXIMUM OF 6" FROM THE CENTER OF THE DOWNSPOUT IN ANY DIRECTION.
7. PLACED ONLY IN DRAINAGE STRUCTURES IN PAVEMENT.
8. SEE NHDOT DR-04, "DI-DB, UNDERDRAIN FLUSHING BASIN AND POLYETHYLENE LINER DETAILS," FOR ADDITIONAL INFORMATION.
9. CATCHBASINS WITHIN CITY RIGHT OF WAY SHALL HAVE A POLYETHYLENE LINER.

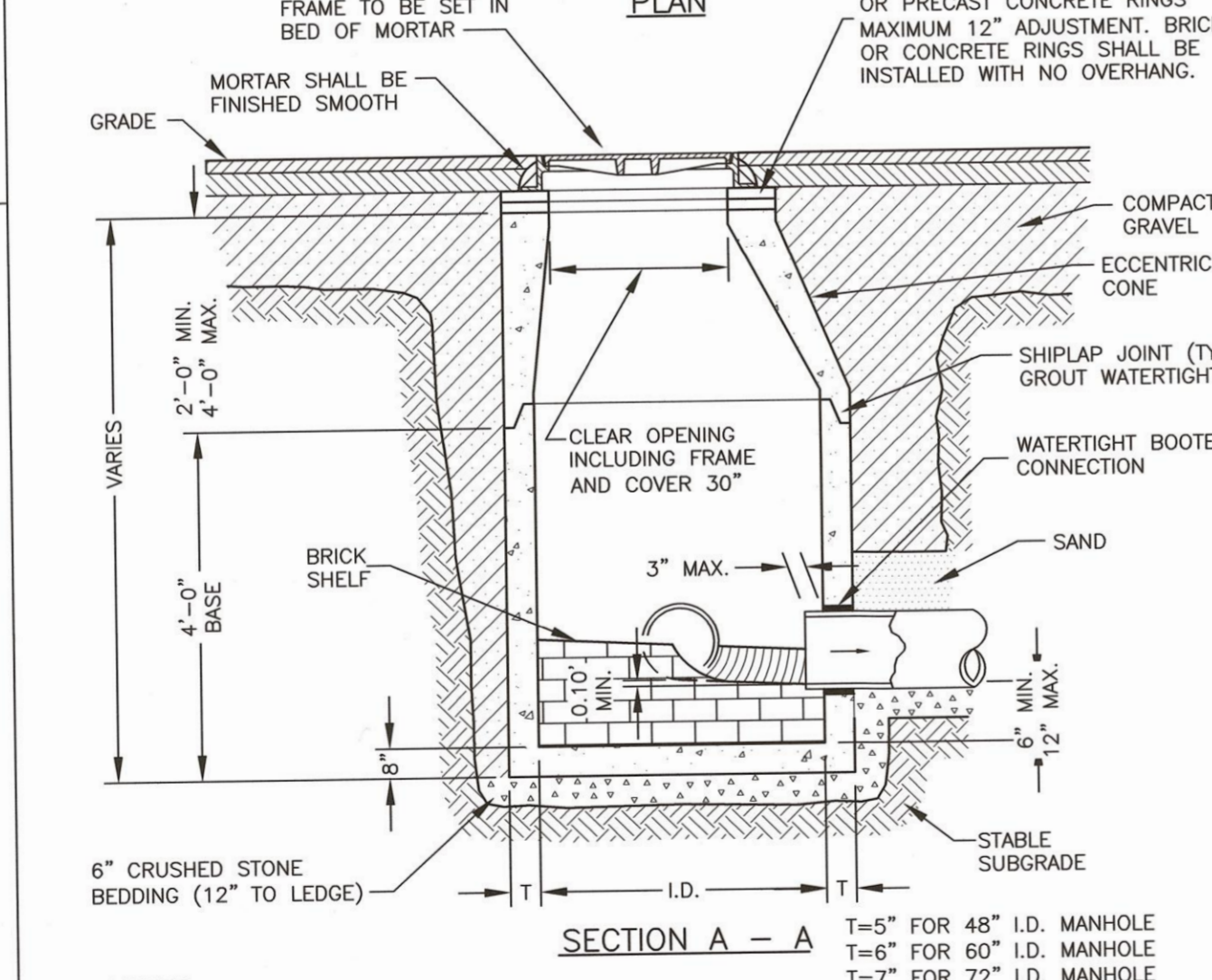
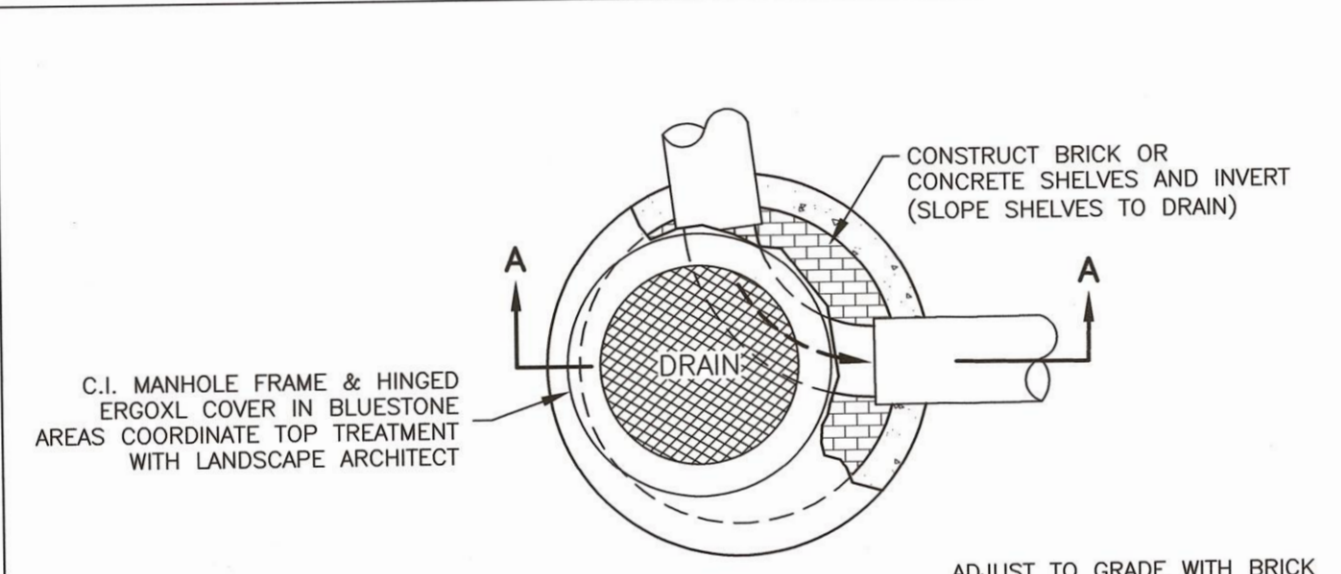


O
C3 TYPICAL SIDEWALK TIP DOWNS NTS



NOTES:

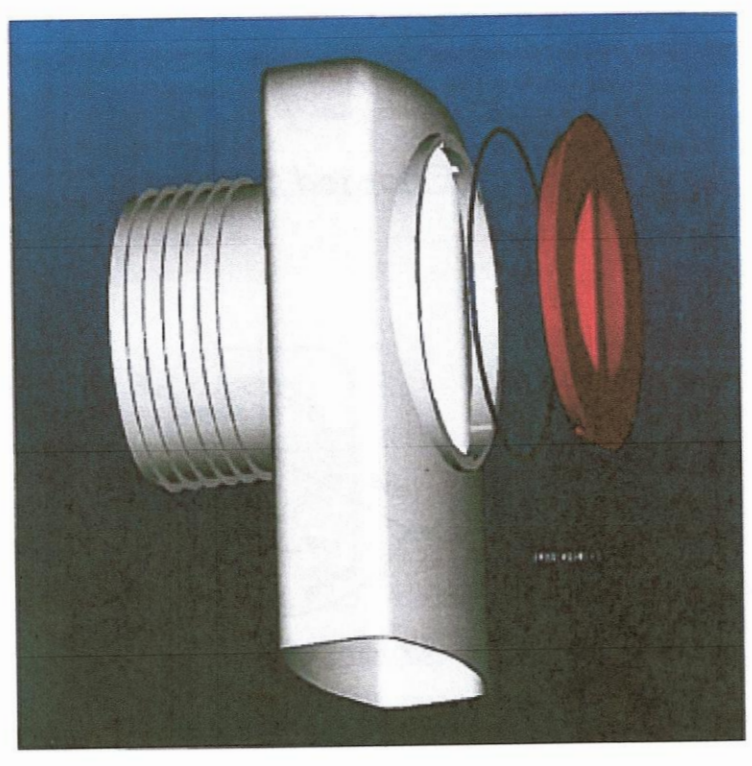
1. CONCRETE SHALL BE 4,000 P.S.I. AFTER 28 DAYS.
2. CIRCUMFERENTIAL REINFORCEMENT SHALL BE 0.12 SQ. IN. PER LINEAR FT. IN ALL SECTIONS & SHALL BE PLACED IN THE CENTER THIRD OF WALL.
3. THE TONGUE OR THE GROOVE OF THE JOINT SHALL CONTAIN ONE LINE OF CIRCUMFERENTIAL REINFORCEMENT EQUAL TO 0.12 SQ. IN. PER LINEAR FT.
4. EACH CASTING TO HAVE LIFTING HOLES CAST IN.
5. RISERS OF 1", 2", 3" & 4" CAN BE USED TO REACH DESIRED DEPTH.
6. THE STRUCTURES SHALL BE DESIGNED FOR H2O LOADING.
7. FITTING FRAME TO GRADE MAY BE DONE WITH PREFABRICATED ADJUSTMENT RINGS OR CLAY BRICKS (2 COURSES MAX.).
8. CONE SECTIONS MAY BE EITHER CONCENTRIC OR ECCENTRIC, OR FLAT SLAB TOPS MAY BE USED WHERE PIPE WOULD OTHERWISE ENTER INTO THE CONE SECTION OF THE STRUCTURE AND WHERE PERMITTED.
9. PIPE ELEVATIONS SHOWN ON PLANS SHALL BE FIELD VERIFIED PRIOR TO PRECASTING.
10. OUTSIDE EDGES OF PIPES SHALL PROJECT NO MORE THAN 3" BEYOND INSIDE WALL OF STRUCTURE.
11. PRECAST SECTIONS SHALL HAVE A TONGUE AND GROOVE JOINT 4" HIGH AT AN 11" ANGLE CENTERED IN THE WIDTH OF THE WALL AND SHALL BE ASSEMBLED USING AN APPROVED FLEXIBLE SEALANT IN JOINTS.
12. THE TONGUE AND GROOVE JOINT SHALL BE SEALED WITH ONE STRIP OF BUTYL RUBBER SEALANT.
13. "ELIMINATOR" OIL/WATER SEPARATOR SHALL BE INSTALLED TIGHT TO INSIDE OF CATCHBASIN.



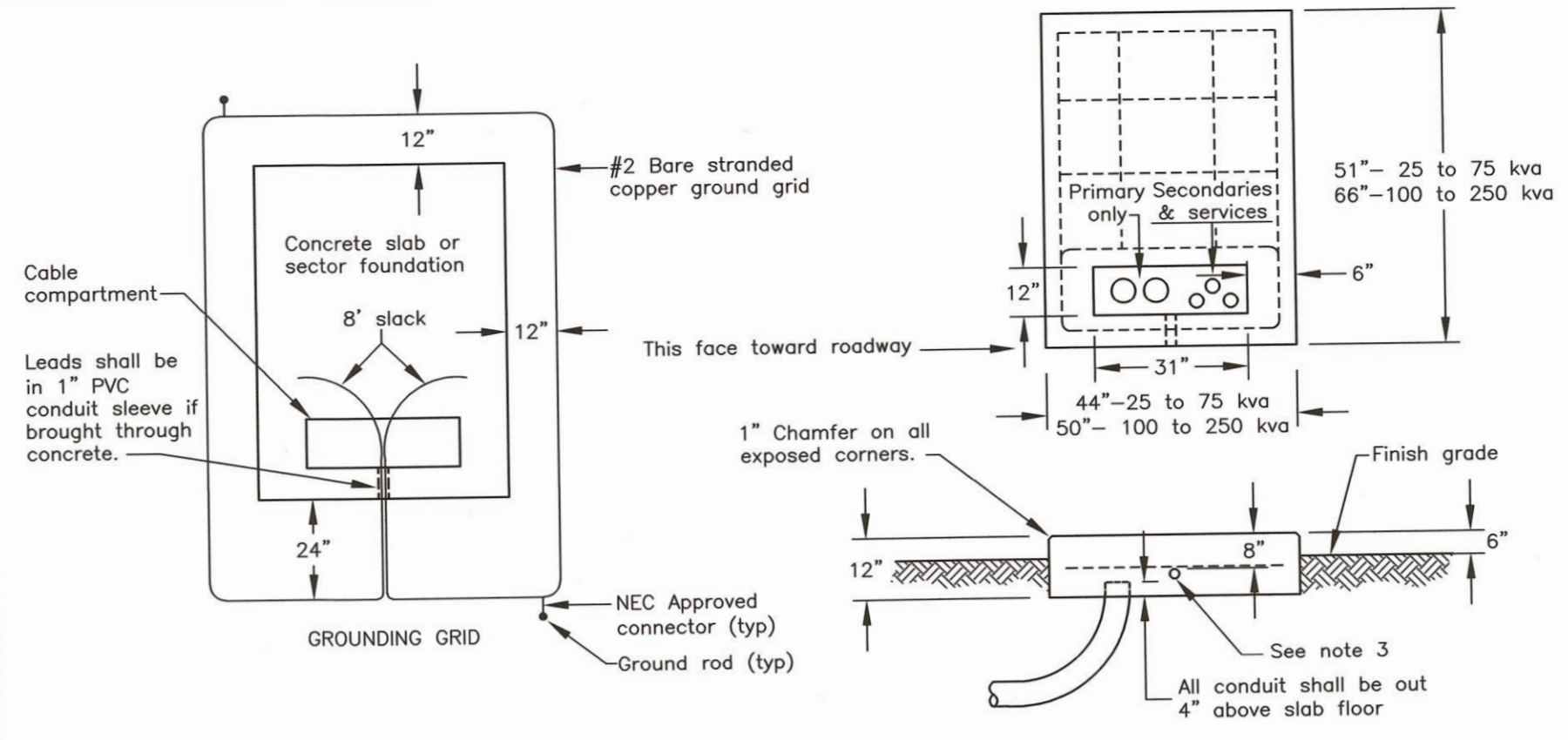
NOTES:

1. CONCRETE SHALL BE 4,000 P.S.I. AFTER 28 DAYS.
2. CIRCUMFERENTIAL REINFORCEMENT SHALL BE 0.12 SQ. IN. PER LINEAR FOOT IN ALL SECTIONS AND SHALL BE PLACED IN THE CENTER THIRD OF THE WALL.
3. THE TONGUE OR THE GROOVE OF THE JOINT SHALL CONTAIN ONE LINE OF CIRCUMFERENTIAL REINFORCEMENT EQUAL TO 0.12 SQ. IN. PER LINEAR FOOT.
4. EACH CASTING TO HAVE LIFTING HOLES CAST IN.
5. ALL MANHOLES SHALL BE 48" I.D. UNLESS SPECIFIED OTHERWISE ON THE PLANS.
6. MANHOLE SHALL BE DESIGNED AND CONSTRUCTED TO WITHSTAND H-20 LOADING.
7. PARGE SPACES BETWEEN PIPE AND MANHOLE WITH MORTAR.

P
C5 DRAIN MANHOLE WITH BOOT DETAIL NTS



M
C5 CATCH BASIN OIL TRAP THE "ELIMINATOR" NTS



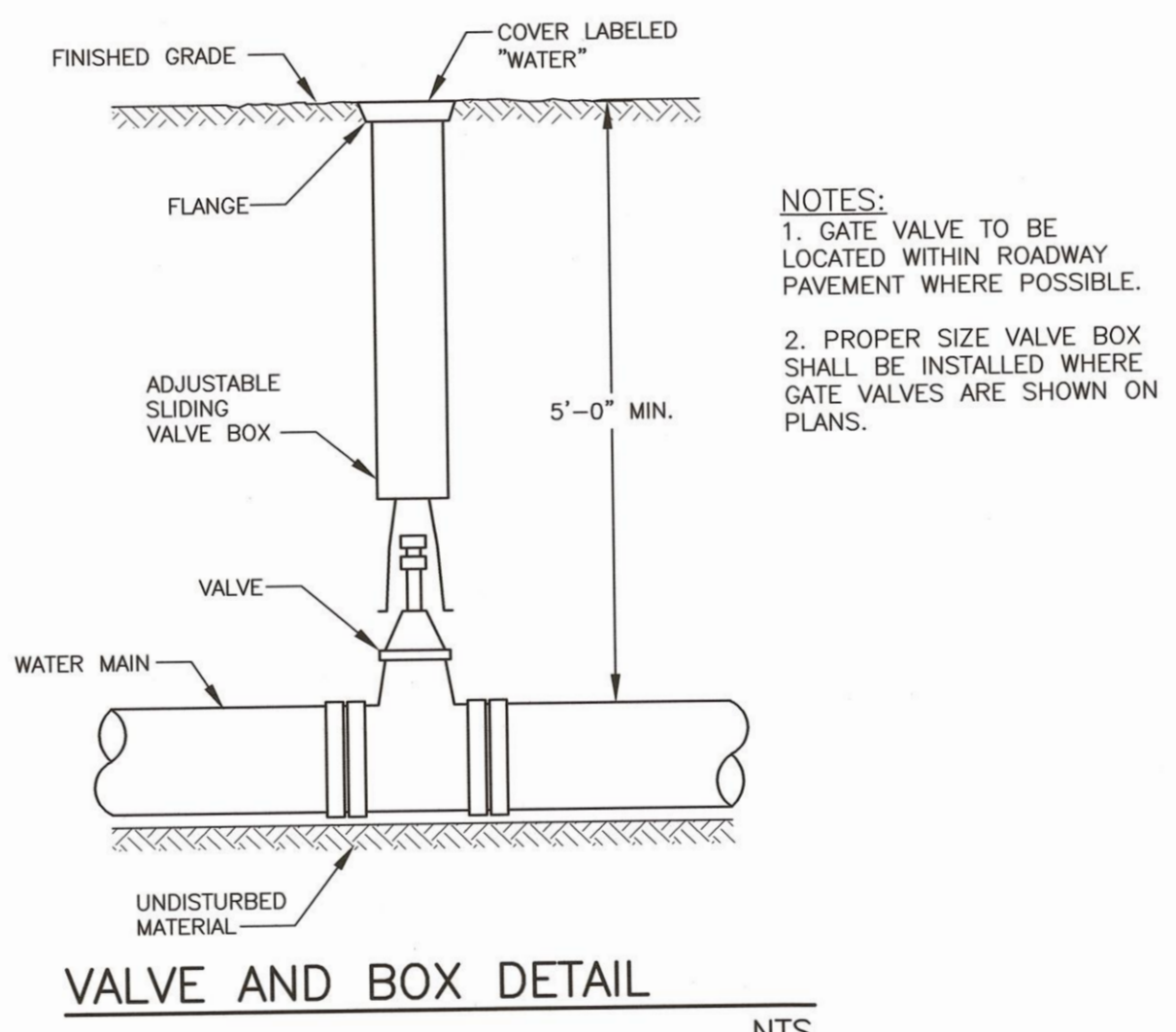
NOTES:

1. ALL CATCH BASIN OUTLETS TO HAVE "ELIMINATOR" OIL AND FLOATING DEBRIS TRAP MANUFACTURED BY KLEANSTREAM (NO EQUAL)
2. INSTALL DEBRIS TRAP TIGHT TO INSIDE OF STRUCTURE.
3. 1/4" HOLE SHALL BE DRILLED IN TOP OF DEBRIS TRAP.

NOTES:

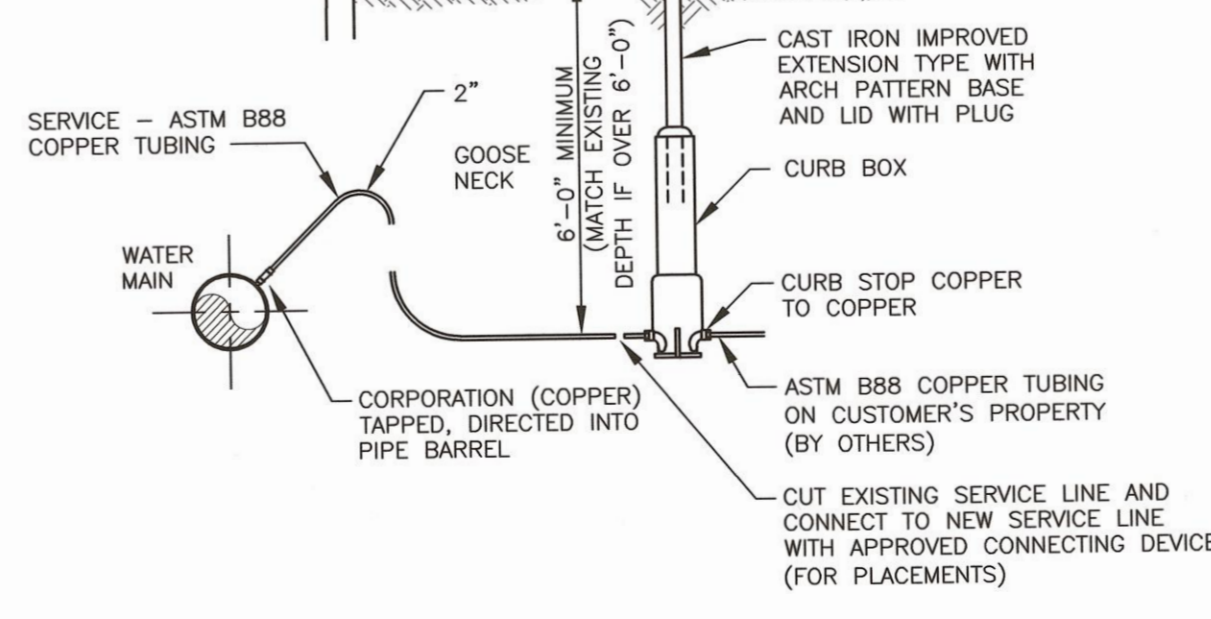
1. See sheet "Requirements for Padmounted Transformer Slab Details".
2. All reinforcing to be #6 bars.
3. 1" PVC conduit sleeve for ground grid leads.
4. The ground grid shall be supplied and installed by the customer and is to be buried at least 12" below grade. Eight feet of extra wire for each ground grid leg shall be left exposed in the cable compartment to allow for the connection to the transformer, the two 8" ground rods may be either galvanized steel or copperweld and they shall be connected to the grid with NEC approved connectors.

N
C4 TRANSFORMER PAD NTS



NOTES:

1. GATE VALVE TO BE LOCATED WITHIN ROADWAY PAVEMENT WHERE POSSIBLE.
2. PROPER SIZE VALVE BOX SHALL BE INSTALLED WHERE GATE VALVES ARE SHOWN ON PLANS.



Q
C4 WATER MAIN & SERVICE CONNECTION NTS

HORIZONTAL ANCHOR DIMENSIONS FOR PIPE INSTALLATION IN ROCK UP TO 150 P.S.I. WORKING PRESSURE

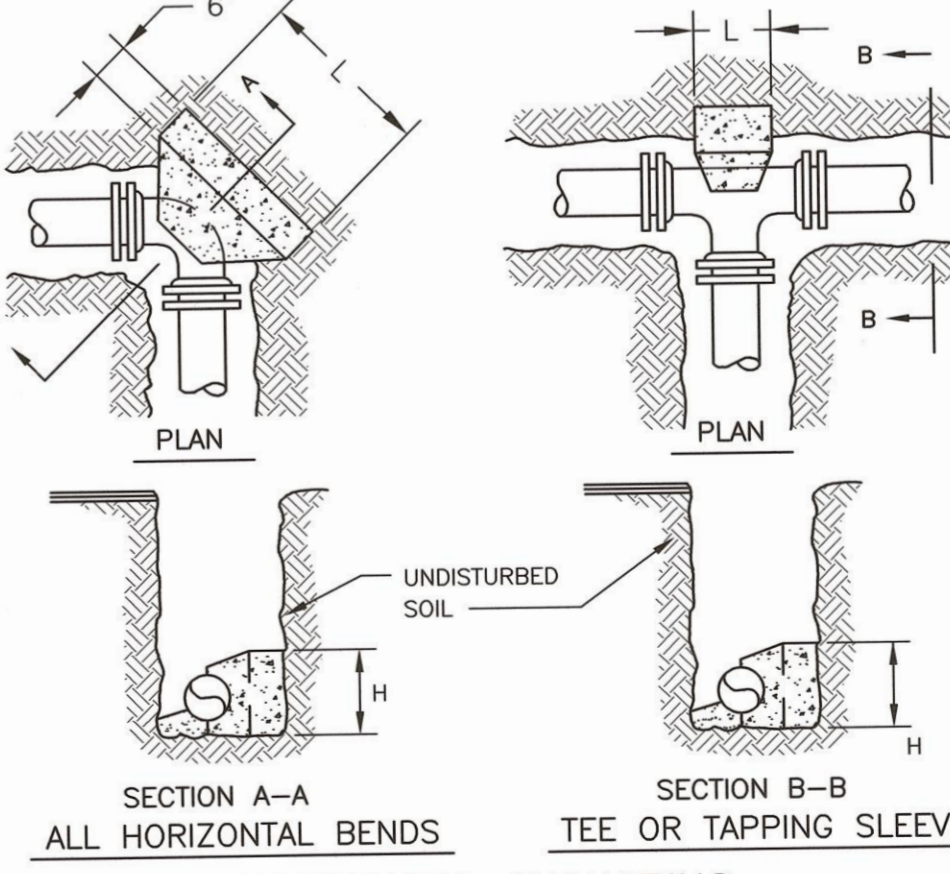
PIPE SIZE	TEE OR TAP SLEEVE		90° BEND		45° BEND		22 1/2° BEND		11 1/4° BEND	
	H	L	H	L	H	L	H	L	H	L
4"	0'-9"	1'-0"	0'-9"	1'-0"	0'-9"	1'-0"	0'-9"	1'-0"	0'-9"	1'-0"
6"	0'-9"	1'-0"	0'-9"	1'-0"	0'-9"	1'-0"	0'-9"	1'-0"	0'-9"	1'-0"
8"	1'-2"	1'-2"	1'-2"	1'-2"	1'-0"	1'-0"	0'-9"	1'-0"	0'-9"	1'-0"
10"	1'-4"	1'-4"	1'-4"	1'-4"	1'-0"	1'-0"	0'-9"	1'-0"	0'-9"	1'-0"
12"	1'-8"	1'-8"	1'-8"	1'-8"	1'-3"	1'-3"	1'-0"	1'-0"	0'-9"	1'-0"

HORIZONTAL ANCHOR DIMENSIONS FOR AVERAGE SOIL CONDITIONS UP TO 150 P.S.I. WORKING PRESSURE

PIPE SIZE	TEE OR TAP SLEEVE		90° BEND		45° BEND		22 1/2° BEND		11 1/4° BEND	
	H	L	H	L	H	L	H	L	H	L
4"	1'-0"	2'-0"	1'-0"	2'-0"	1'-0"	1'-4"	0'-9"	1'-0"	0'-6"	1'-0"
6"	1'-0"	2'-0"	1'-0"	2'-0"	1'-0"	1'-4"	0'-9"	1'-0"	0'-6"	1'-0"
8"	1'-4"	2'-8"	1'-4"	2'-8"	1'-4"	1'-6"	1'-0"	1'-0"	0'-9"	1'-0"
10"	1'-8"	3'-4"	1'-8"	3'-4"	1'-8"	2'-0"	1'-3"	1'-3"	1'-0"	1'-0"
12"	2'-0"	4'-0"	2'-0"	4'-0"	2'-0"	2'-2"	1'-6"	1'-6"	1'-3"	1'-3"

NOTES:

- 1) TABLES ARE BASED ON AN ALLOWABLE SOIL PRESSURE OF 3000 PSF ON UNDISTURBED EARTH BEHIND THE ANCHOR BLOCK. WHERE SOIL HAS BEEN DISTURBED BY ADJACENT EXCAVATIONS OR WHERE SOIL CANNOT WITHSTAND SUCH A PRESSURE, THE TABLE DOES NOT APPLY.
- 2) WHERE ENTIRE DEPTH OF PIPE IS BELOW THE TOP SURFACE OF SOUND ROCK, USE "HORIZONTAL ANCHOR DIMENSIONS FOR PIPE INSTALLATION IN ROCK" TABLE.



HORIZONTAL ANCHORING

**SITE REDEVELOPMENT
 361 HANOVER STREET
 PORTSMOUTH, N.H.**

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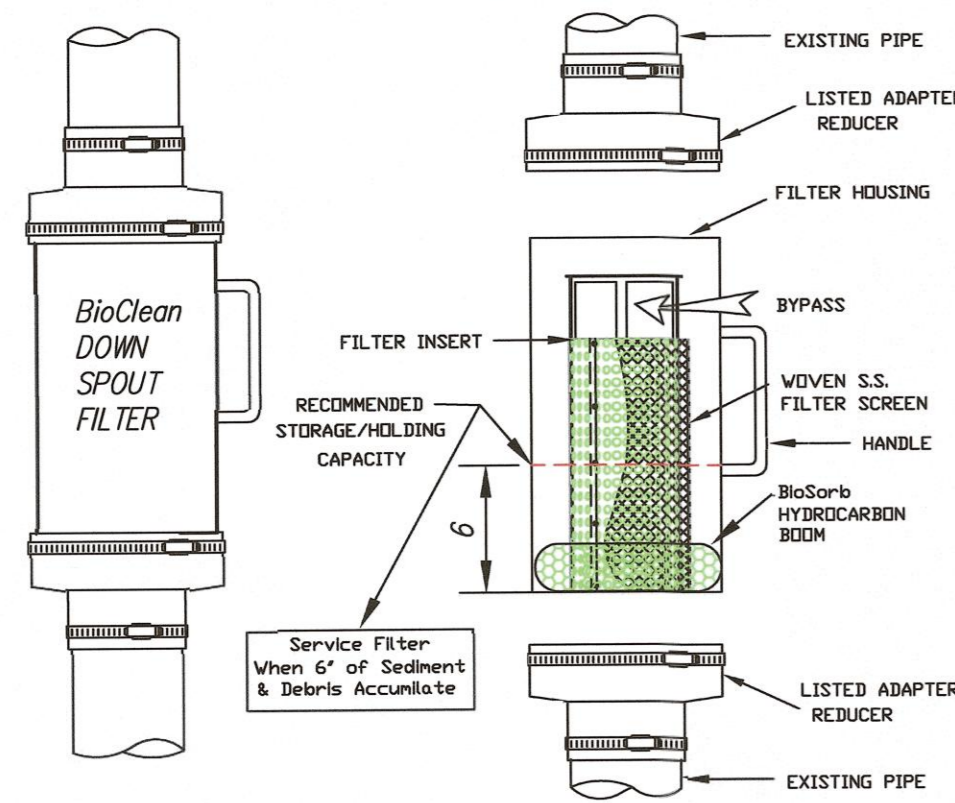
SCALE: AS SHOWN MARCH 2025

DETAILS **D3**

P:\NH\010135-Hampshire Development\2877.01-Hanover St., Portsmouth-1501\Portsmouth Plotter Canon TX3000 (US)RPSM-1501\Portsmouth Plotter Canon TX3000

SERVICE MANUAL
(Cleaning Procedures)

Bio Clean DOWNSPOUT FILTER
Screen Type With Hydrocarbon Boom



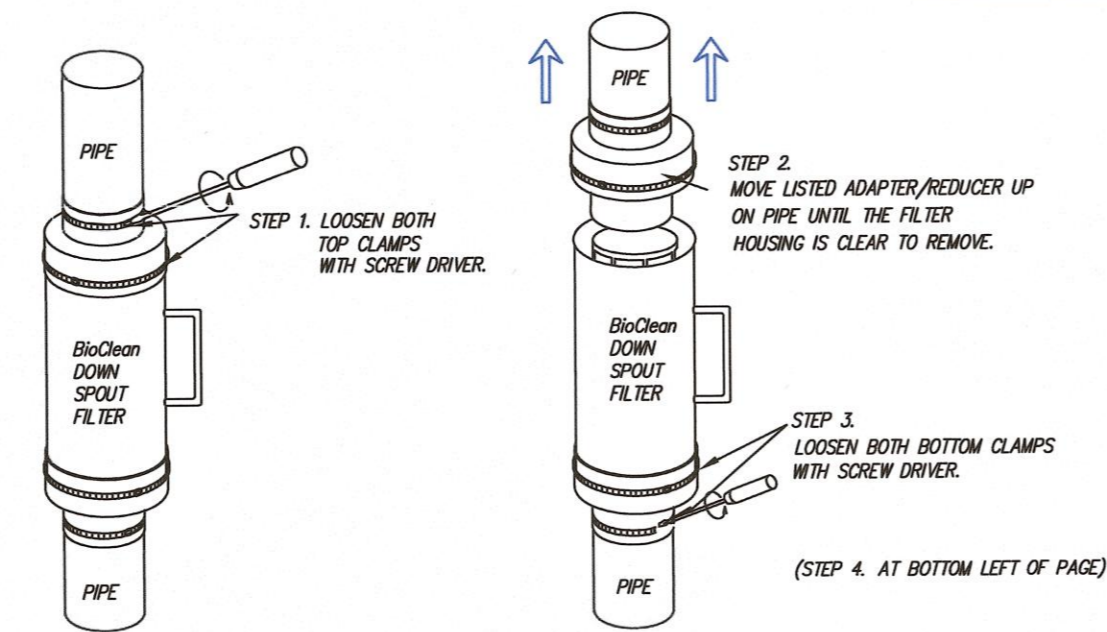
TOOLS AND EQUIPMENT NEEDED:

1. Medium size flat sored driver
2. BioSorb hydrocarbon boom. 25-1/2" X 2" dia. (Call Bio Clean to order)
3. Trash container or bag
4. Wooden dowel approx. 3' x 1/2" dia.

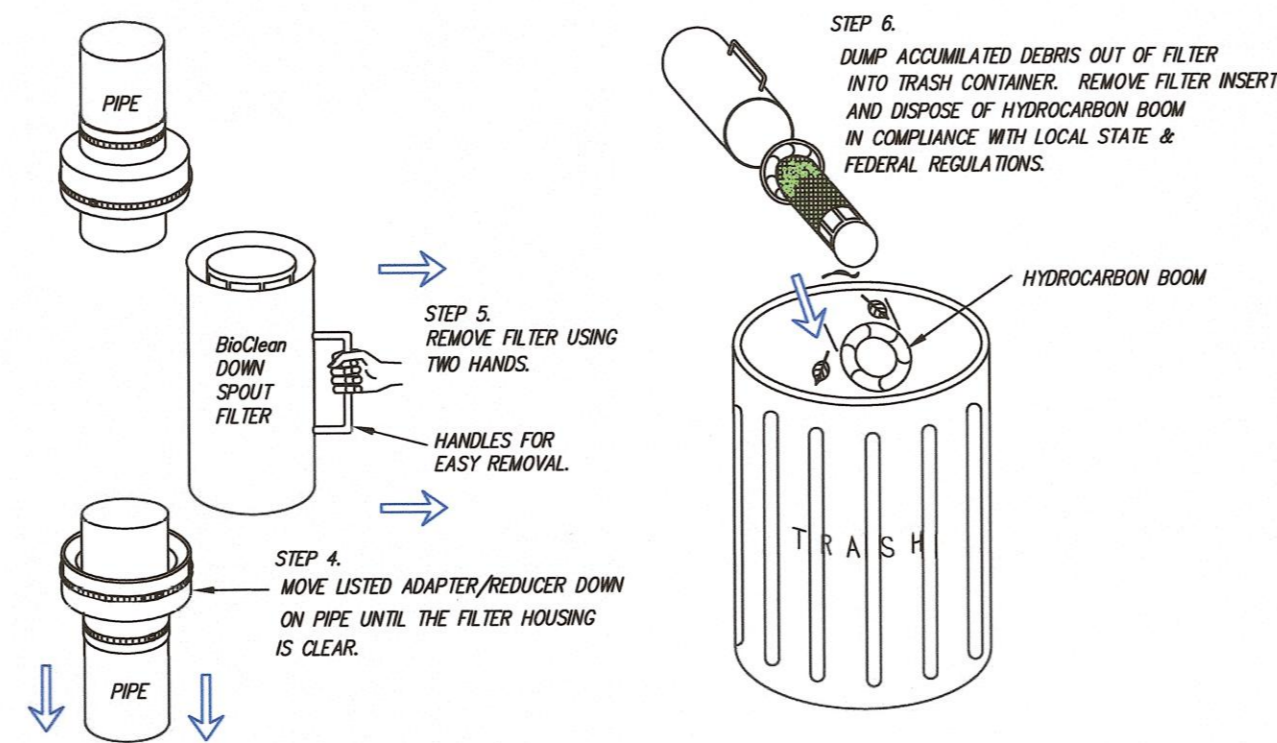


P.O. BOX 869, Oceanside, Ca. 92049
(760) 433-7640 Fax (760) 433-3176
www.biocleanenvironmental.net

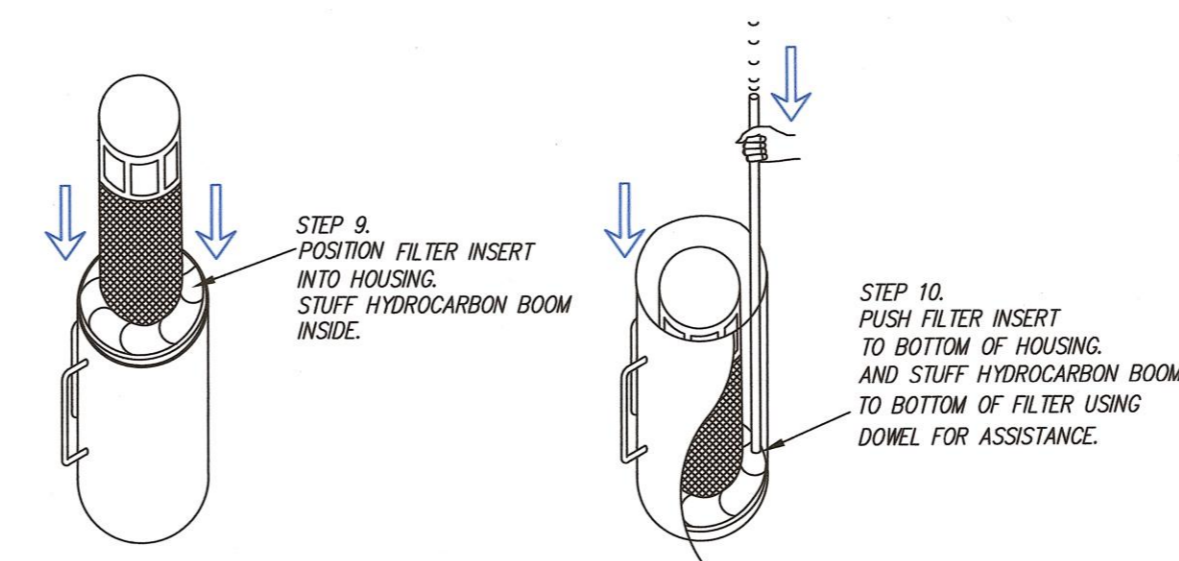
REMOVING FILTER



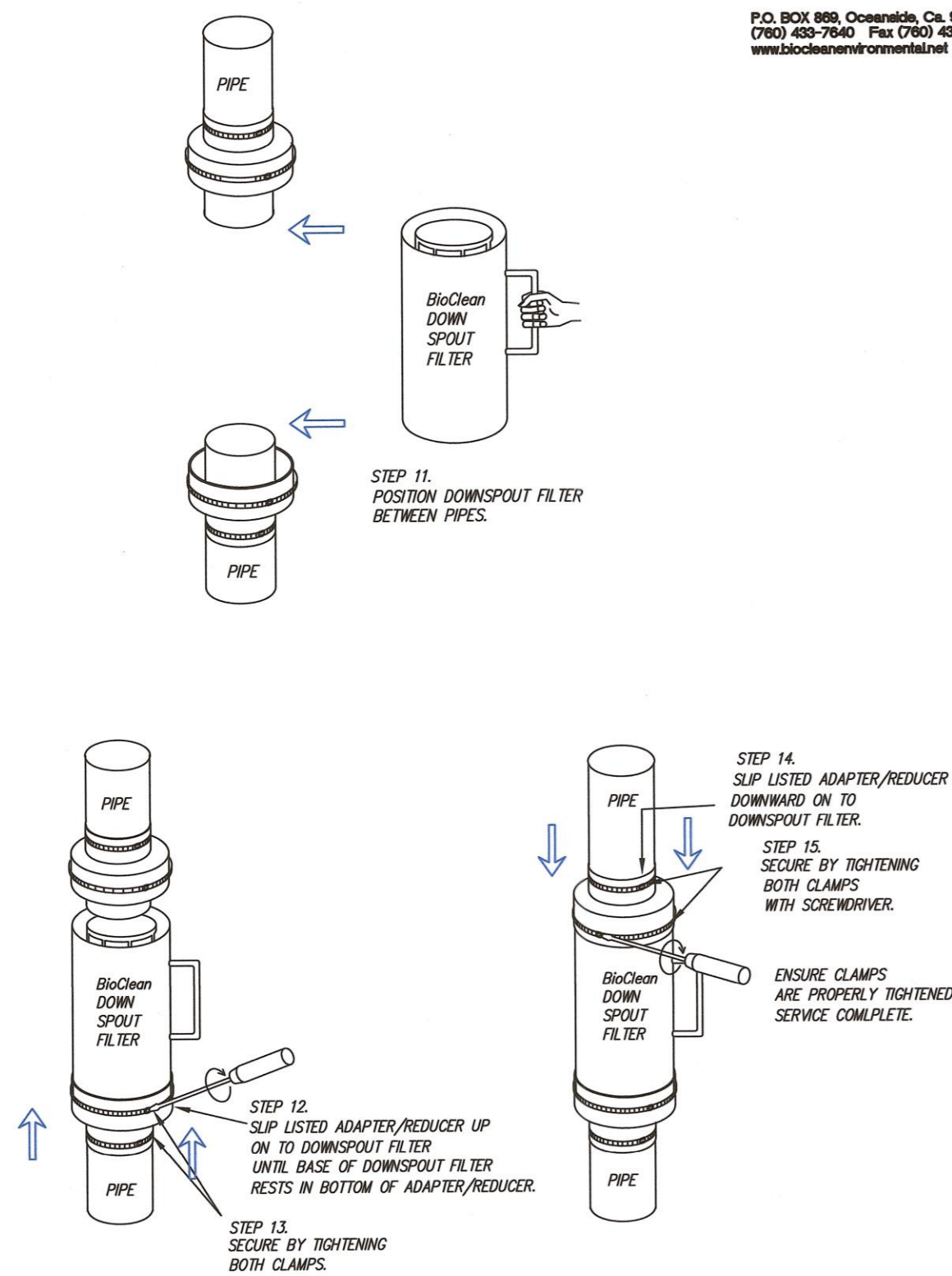
CLEANING FILTER



REPLACING FILTER INSERT

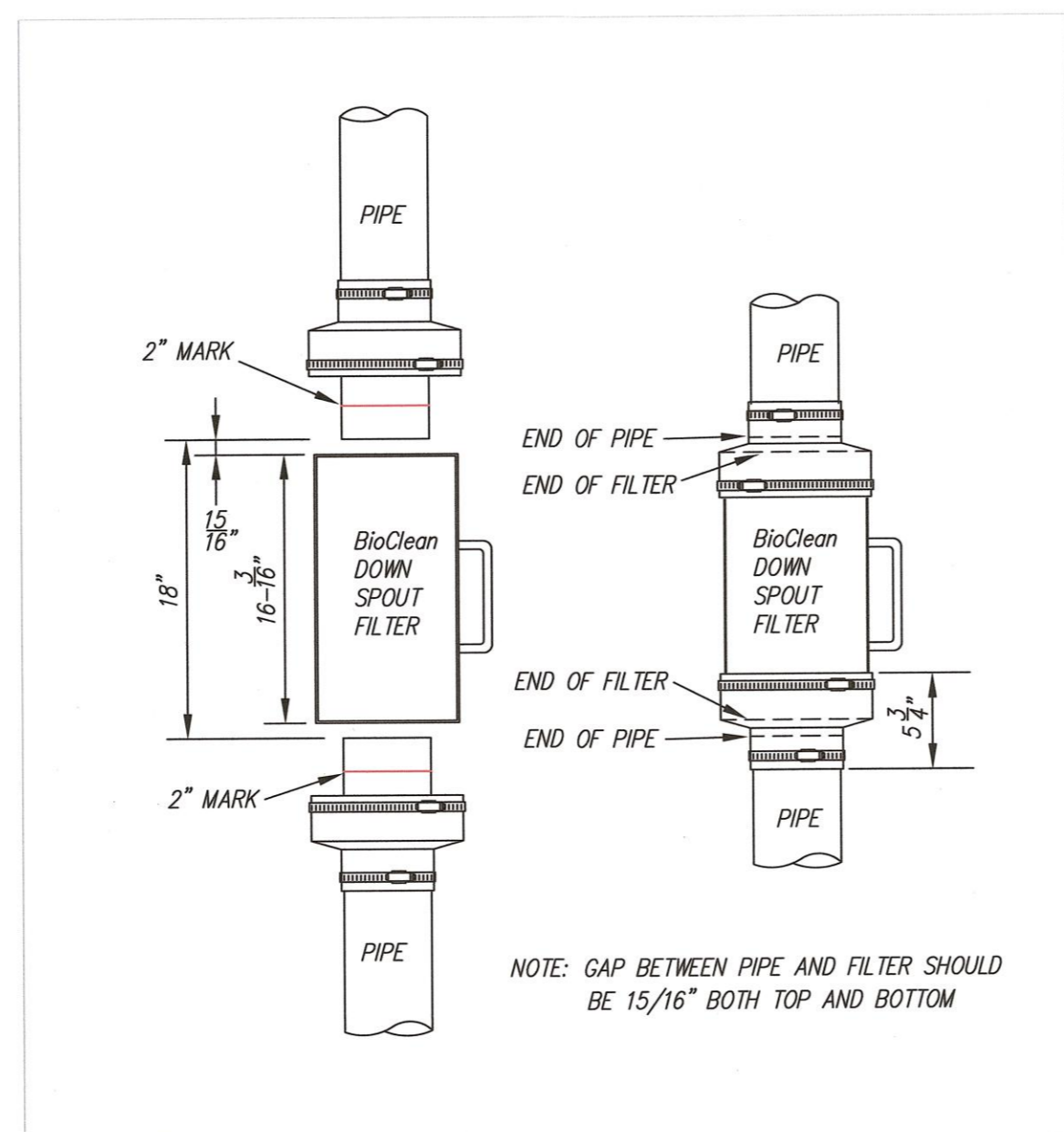


REPLACING FILTER



APPROPRIATE INSTALLATION

FILTER CENTERED BETWEEN PIPES WITH EVEN GAPS ON TOP AND BOTTOM



NOTE: GAP BETWEEN PIPE AND FILTER SHOULD BE 15/16" BOTH TOP AND BOTTOM



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**STORMWATER
TREATMENT
MAINTENANCE**

DOWNSPOUT FILTER

MAINTENANCE:

THE FILTER IS DESIGNED TO ALLOW FOR THE USE OF MANUAL OR VACUUM REMOVAL OF CAPTURED MATERIALS IN THE FILTER STRUCTURE. FILTERS CAN BE CLEANED EASILY BY SIMPLY LOOSENING THE METAL CLAMPS AND REMOVING THE FILTER. THE HYDROCARBON ADSORBENT MEDIA THEN IS REMOVED AND THE TRASH AND DEBRIS CAN BE REMOVED FROM THE STRUCTURE. AT EACH CLEANING, NEW HYDROCARBON ADSORBENT MEDIA SHOULD BE REINSTALLED.

MAINTENANCE NOTES:

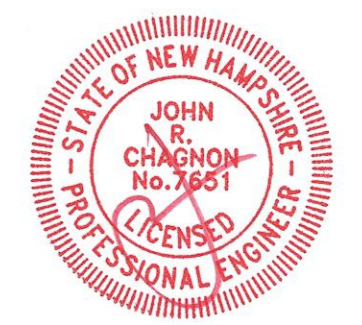
1. BIO CLEAN ENVIRONMENTAL SERVICES, INC. RECOMMENDS CLEANING AND DEBRIS REMOVAL MAINTENANCE A MINIMUM OF TWO TO FOUR TIMES PER YEAR, AND REPLACEMENT OF MEDIA BOOMS A MINIMUM OF TWICE A YEAR.
2. THE DOWNSPOUT FILTER CAN BE CLEANED BY LOOSING THE METAL CLAMPS AT BOTTOM AND TOP OF RUBBER BOOTS. REMOVE THE FILTER BY GRASPING THE HANDLES, SLIDE DOWN THE BOTTOM BOOT OVER THE OUTFLOW PIPE AND SLIDE UP THE TOP BOOT OVER INFLOW PIPE. PLACE THE FILTER ON THE GROUND. DISPOSE OF ANY TRASH AND SEDIMENTS COLLECTED IN FILTER.
3. ONCE THE FILTER IS FREE, REMOVE THE INTERIOR INSERT. REMOVE THE HYDROCARBON ADSORBENT MEDIA BY UNWRAPPING IT FROM THE INTERIOR INSERT AND REPLACING WITH A NEW MEDIA, WRAPPING IT THE SAME WAY.
4. PLACE THE INTERIOR INSERT BACK INTO THE FILTER.
5. PLACE THE FILTER BACK IN LINE WITH THE PIPE AND SLIDE BACK THE TOP AND BOTTOM BOOTS IN PLACE AND TIGHTEN THE METAL CLAMPS SECURELY.
6. EVALUATION OF THE HYDROCARBON MEDIA SHALL BE PERFORMED AT EACH CLEANING. IF THE MEDIA IS FILLED WITH HYDROCARBONS AND OILS IT SHOULD BE REPLACED.
7. TRANSPORT ALL DEBRIS, TRASH, ORGANICS AND SEDIMENTS TO APPROVED FACILITY FOR DISPOSAL IN ACCORDANCE WITH LOCAL AND STATE REQUIREMENTS.
8. THE HYDROCARBON MEDIA WITH ABSORBED HYDROCARBONS IS CONSIDERED HAZARDOUS WASTE AND NEEDS TO BE HANDLED AND DISPOSED OF AS HAZARDOUS MATERIAL. PLEASE REFER TO STATE AND LOCAL REGULATIONS FOR THE PROPER DISPOSAL OF USED MOTOR OIL/FILTERS.
9. FOLLOWING MAINTENANCE AND/OR INSPECTION, THE MAINTENANCE OPERATOR SHALL PREPARE A MAINTENANCE/INSPECTION RECORD. THE RECORD SHALL INCLUDE ANY MAINTENANCE ACTIVITIES PERFORMED, AMOUNT AND DESCRIPTION OF DEBRIS COLLECTED, AND CONDITION OF FILTER.
10. THE OWNER SHALL RETAIN THE MAINTENANCE/INSPECTION RECORD FOR A MINIMUM OF FIVE YEARS FROM THE DATE OF MAINTENANCE. THESE RECORDS SHALL BE MADE AVAILABLE TO THE GOVERNING MUNICIPALITY FOR INSPECTION UPON REQUEST AT ANY TIME.
11. ANY TOXIC SUBSTANCE OR ITEM FOUND IN THE FILTER IS CONSIDERED AS HAZARDOUS MATERIAL AND CAN ONLY BE HANDLED BY A CERTIFIED HAZARDOUS WASTE TRAINED PERSON (MINIMUM 24-HOUR HAZWOPER).

NOTES:

- 1) THE CONTRACTOR SHALL NOTIFY DIG SAFE AT 1-888-DIG-SAFE (1-888-344-7233) AT LEAST 72 HOURS PRIOR TO COMMENCING ANY EXCAVATION ON PUBLIC OR PRIVATE PROPERTY.
- 2) UNDERGROUND UTILITY LOCATIONS ARE BASED UPON BEST AVAILABLE EVIDENCE AND ARE NOT FIELD VERIFIED. LOCATING AND PROTECTING ANY ABOVEGROUND OR UNDERGROUND UTILITIES IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND/OR THE OWNER. UTILITY CONFLICTS SHOULD BE REPORTED AT ONCE TO THE DESIGN ENGINEER.
- 3) CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH THE "NEW HAMPSHIRE STORMWATER MANUAL, VOLUME 3, EROSION AND SEDIMENT CONTROLS DURING CONSTRUCTION. (NHDES DECEMBER 2008).

SITE REDEVELOPMENT
361 HANOVER STREET
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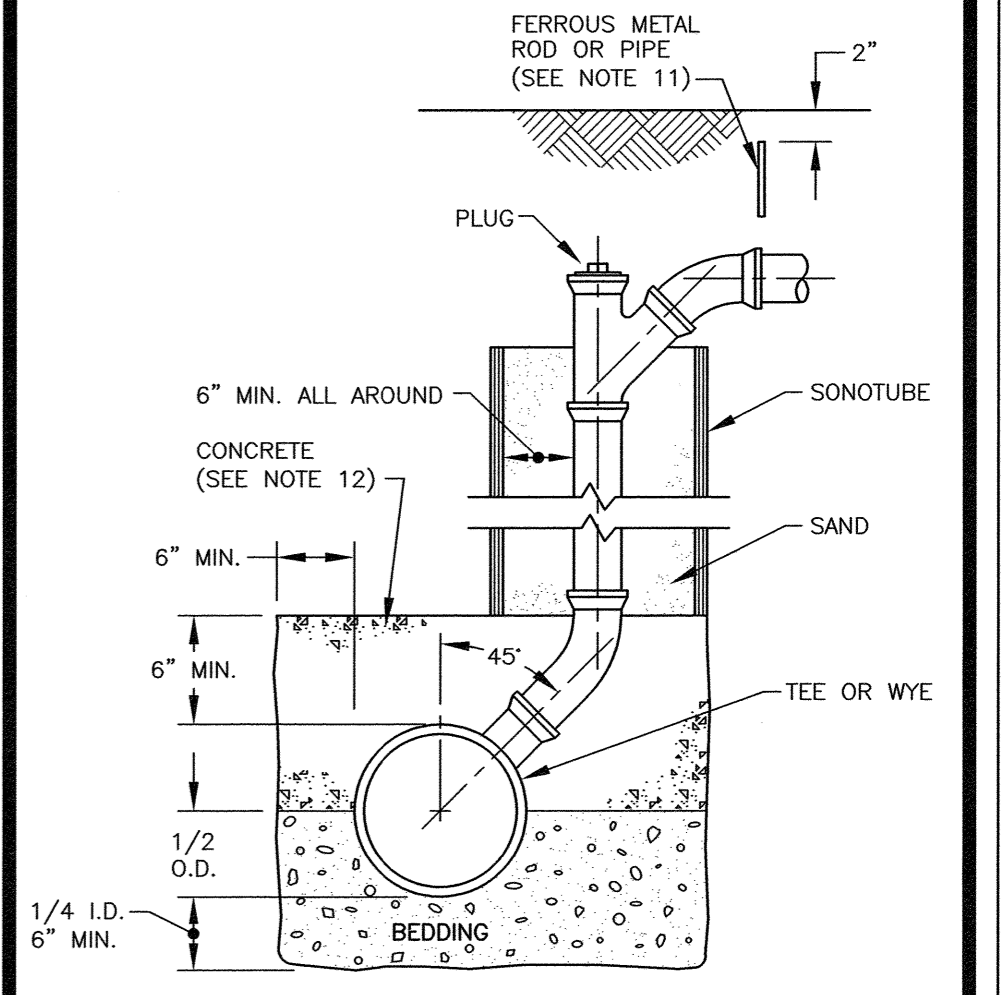
SCALE: AS SHOWN MARCH 2025

DETAILS

D4

NOTES:

- THE CONTRACTOR SHALL NOTIFY DIG SAFE AT 1-888-DIG-SAFE (1-888-344-7233) AT LEAST 72 HOURS PRIOR TO COMMENCING ANY EXCAVATION ON PUBLIC OR PRIVATE PROPERTY.
- UNDERGROUND UTILITY LOCATIONS ARE BASED UPON BEST AVAILABLE EVIDENCE AND ARE NOT FIELD VERIFIED. LOCATING AND PROTECTING ANY ABOVEGROUND OR UNDERGROUND UTILITIES IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND/OR THE OWNER. UTILITY CONFLICTS SHOULD BE REPORTED AT ONCE TO THE DESIGN ENGINEER.
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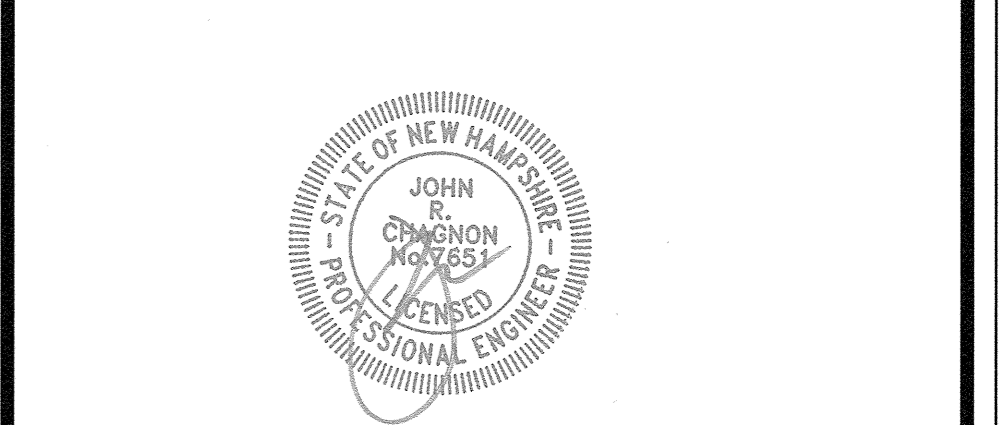


NO BACKFILLING BEFORE CONCRETE HAS TAKEN INITIAL SET (7 HRS. MIN.). BACKFILLING TO BE BROUGHT UP EVENLY ON ALL SIDES.

CHIMNEY (SEE NOTE)
 NOT TO SCALE

SITE REDEVELOPMENT
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SEWER DETAILS **D5**

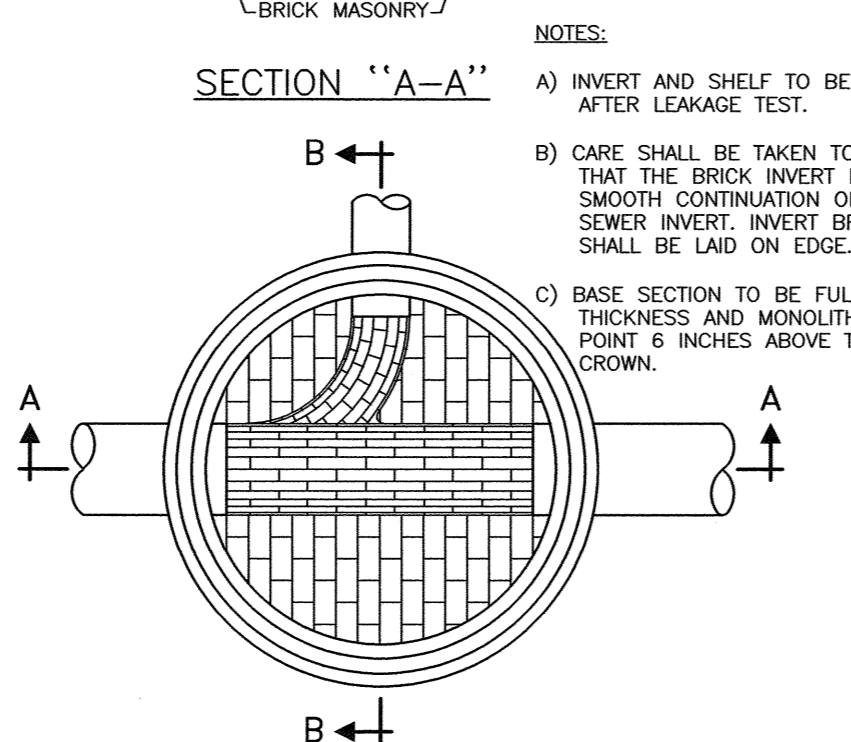
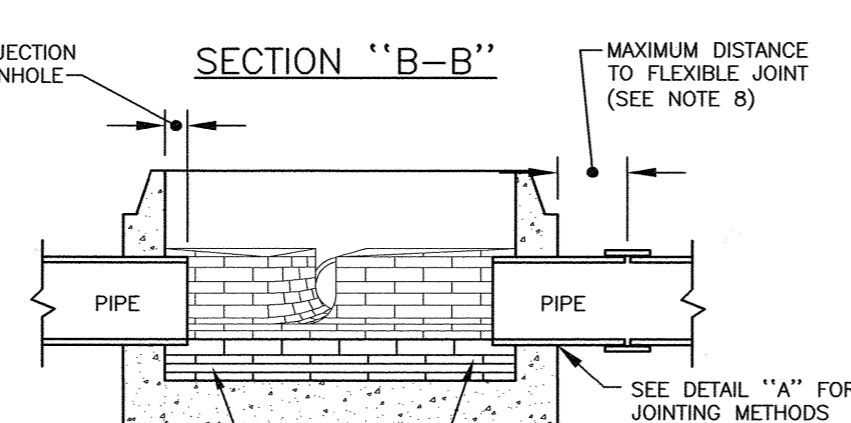
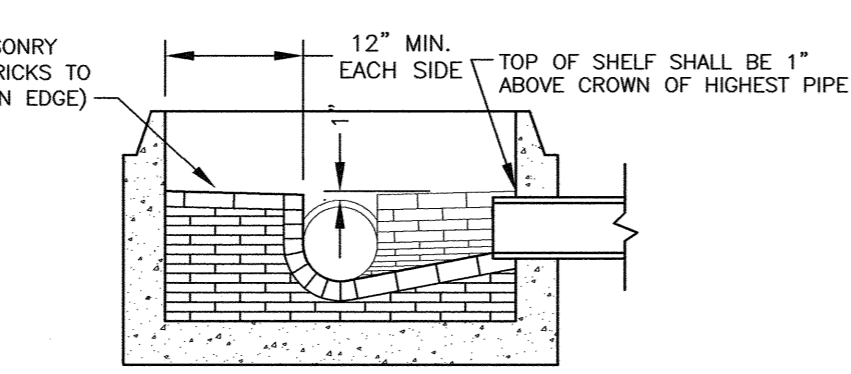
GENERAL NOTES

- IT IS THE INTENTION THAT THE MANHOLE, INCLUDING ALL COMPONENT PARTS, HAVE ADEQUATE SPACE, STRENGTH AND LEAK RESISTANCE NECESSARY FOR THE INTENDED SERVICE. SPACE REQUIREMENTS AND CONFIGURATIONS, SHALL BE AS SHOWN ON THE DRAWING. MANHOLES SHALL BE AN ASSEMBLY OF PRECAST SECTIONS, WITH STEEL REINFORCEMENT, WITH ADEQUATE JOINTING, OR CONCRETE CAST MONOLITHICALLY IN PLACE WITH REINFORCEMENT. IN ANY APPROVED MANHOLE, THE COMPLETE STRUCTURE SHALL BE OF SUCH MATERIAL AND QUALITY AS TO WITHSTAND LOADS OF 8 TONS (H=20 LOADING) WITHOUT FAILURE AND PREVENT LEAKAGE IN EXCESS OF ONE GALLON PER DAY PER VERTICAL FOOT OF MANHOLE, CONTINUOUSLY FOR THE LIFE OF THE STRUCTURE. A PERIOD GENERALLY IN EXCESS OF 25 YEARS IS TO BE UNDERSTOOD IN BOTH CASES.
- BARRELS AND CONE SECTIONS SHALL BE PRECAST REINFORCED CONCRETE, OR POURED IN PLACE REINFORCED CONCRETE IF POURED AS A COMPLETE MANHOLE.
- PRECAST CONCRETE BARREL SECTIONS, CONES AND BASES SHALL CONFORM TO ASTM C478.
- LEAKAGE TEST MAY NOT BE FEASIBLE, BUT SHALL CONFORM TO ENV-WQ 704.17.
- INVERTS AND SHELVES: MANHOLES SHALL HAVE A BRICK PAVED SHELF AND INVERT, CONSTRUCTED TO CONFORM TO THE SIZE OF THE PIPE AND FLOW. AT CHANGES IN DIRECTIONS, THE INVERTS SHALL BE LAID OUT IN CURVES OF THE LONGEST RADIUS POSSIBLE AND TANGENT TO THE CENTERLINE OF THE SEWER PIPES. SHELVES SHALL BE CONSTRUCTED TO THE ELEVATION OF THE HIGHEST PIPE CROWN AND SLOPED TO DRAIN TOWARD FLOWING THROUGH CHANNEL. UNDERLAYMENT OF INVERT AND SHELF SHALL CONSIST OF BRICK MASONRY.
- FRAMES AND COVERS: MANHOLE FRAMES AND COVERS SHALL BE OF HEAVY DUTY DESIGN AND PROVIDE A 30-INCH CLEAR OPENING, A THREE INCH (MINIMUM HEIGHT) WORD "SEWER" FOR SEWERS AND "DRAIN" FOR DRAINS SHALL BE PLAINLY CAST INTO THE CENTER OF EACH COVER. CASTINGS SHALL CONFORM TO CLASS 30, ASTM A48.
- BEDDING: SCREENED GRAVEL AND/OR CRUSHED STONE, FREE FROM CLAY, LOAM, ORGANIC MATTER AND MEETING ASTM C33 STONE SIZE NO. 67.

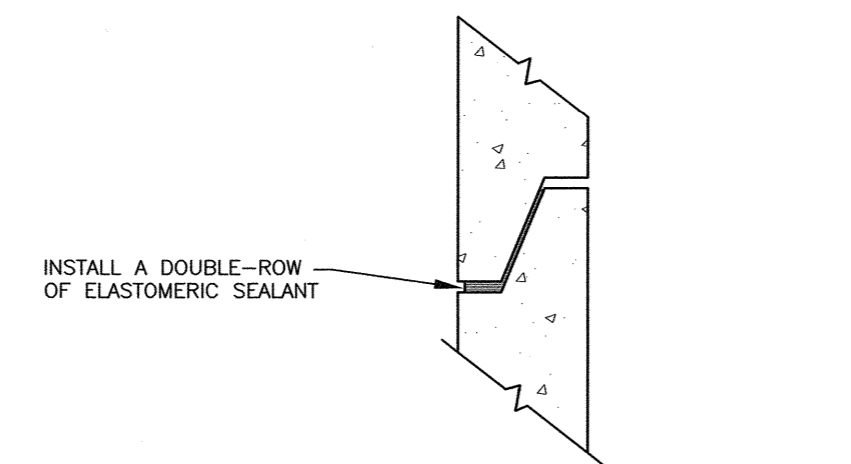
100% PASSING	1 INCH SCREEN
90%-100% PASSING	3/4 INCH SCREEN
20%- 55% PASSING	3/8 INCH SCREEN
0%- 10% PASSING	#4 SIEVE
0%- 5% PASSING	#8 SIEVE
- FLEXIBLE JOINT: A FLEXIBLE JOINT SHALL BE PROVIDED WITHIN THE FOLLOWING DISTANCES:

100% PASSING	1 INCH SCREEN
90%-100% PASSING	3/4 INCH SCREEN
20%- 55% PASSING	3/8 INCH SCREEN
0%- 10% PASSING	#4 SIEVE
0%- 5% PASSING	#8 SIEVE
- SHALLOW MANHOLE: IN LIEU OF A CONE SECTION, WHEN MANHOLE DEPTH IS LESS THAN 6 FEET, A REINFORCED CONCRETE SLAB COVER MAY BE USED HAVING AN ECCENTRIC ENTRANCE OPENING AND CAPABLE OF SUPPORTING H=20 LOADS.
- MANHOLE STEPS MAY BE PERMITTED UPON REQUEST BY THE OWNER AS SECONDARY ADDITIONAL SAFETY FEATURE SUPPLEMENTARY TO THE PRIMARY PORTABLE LADDER ENTRY AND WHEN INSTALLED UNDER THE FOLLOWING CONDITIONS:
 - THE STEPS SHALL BE MANUFACTURED OF 5/8th INCH ROUND STAINLESS STEEL, PLASTIC COVERED STEEL OR PLASTIC. THEY SHALL BE SHAPED SO THAT THEY CANNOT BE PULLED OUT OF THE CONCRETE WALL IN WHICH THEY ARE EMBEDDED.
 - THE STEPS SHALL BE EMBEDDED IN THE CONCRETE BY THE MANUFACTURER DURING MANUFACTURE OR IMMEDIATELY FOLLOWING REMOVAL OF FORMS. SECURING THE STEPS WITH MORTAR IN DRILLED OR CAST HOLES, WILL NOT BE ACCEPTABLE.
 - THE STEPS SHALL BE OF THE DROP TYPE WITH A DEPRESSED SECTION FOR HANDHOLD, APPROXIMATELY 14" x 10" IN DIMENSION.

- HORIZONTAL JOINTS BETWEEN SECTIONS OF PRECAST CONCRETE BARRELS SHALL BE OF A TYPE APPROVED BY THE ENGINEER, WHICH TYPE SHALL, IN GENERAL, DEPEND FOR WATER TIGHTNESS UPON AN ELASTOMERIC OR MASTIC-LIKE GASKET, IN 2 ROWS.
- PIPE TO MANHOLE JOINTS SHALL BE ONLY AS APPROVED BY THE ENGINEER AND IN GENERAL, WILL DEPEND FOR WATER TIGHTNESS UPON EITHER AN APPROVED NON-SHRINKING MORTAR OR ELASTOMERIC SEALANT.
- THE PURPOSE OF THIS PLAN IS TO SHOW STANDARDS FOR SEWER CONSTRUCTION.
- ALL WORK SHALL BE IN COMPLIANCE WITH NHDES CODE OF ADMINISTRATIVE RULES PART ENV-WQ 704 DESIGN OF SEWERAGE.
- BASE SECTIONS SHALL BE OF MONOLITHIC CONSTRUCTION TO A POINT AT LEAST 6 INCHES ABOVE THE CROWN OF THE LARGEST INCOMING PIPE.



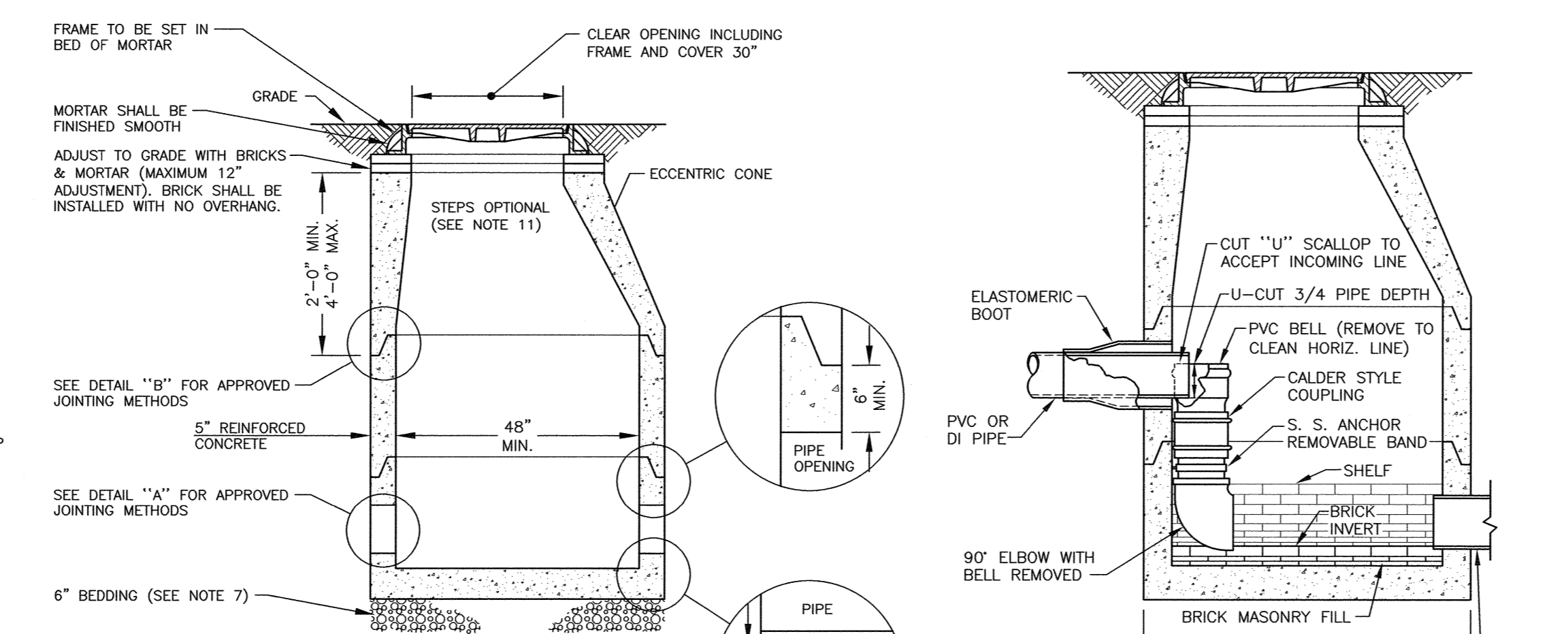
TYPICAL MANHOLE - PLAN VIEW



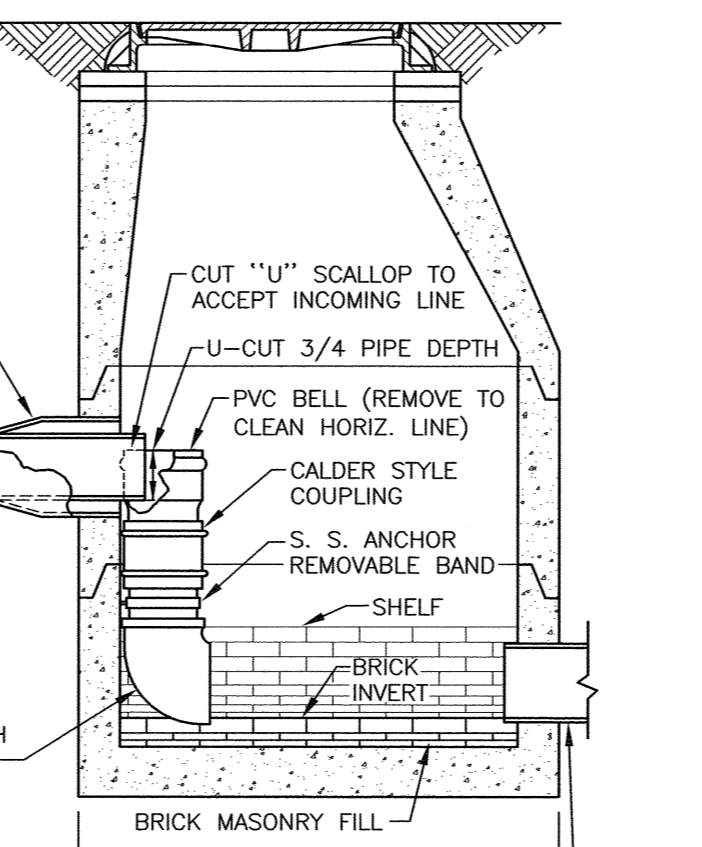
ELASTOMERIC SEALANT

NOTE: ALL GASKETS AND SEALANTS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' WRITTEN INSTRUCTIONS.

DETAIL "B" - HORIZONTAL JOINTS



TYPICAL SECTION



INSIDE DROP MANHOLE

GENERAL NOTES

- MINIMUM PIPE SIZE FOR HOUSE SERVICE SHALL BE FOUR INCHES.
- PIPE AND JOINT MATERIALS:
 - PLASTIC SEWER PIPE

ASTM STANDARDS	GENERIC PIPE MATERIAL	SIZES APPROVED
D3034	*PVC (SOLID WALL)	8" THROUGH 15" (SDR 35)
F679	PVC (SOLID WALL)	18" THROUGH 27" (T-1 & T-2)
F794	PVC (RIBBED WALL)	8" THROUGH 36"
AWWA C900	PVC (SOLID WALL)	8" THROUGH 18"

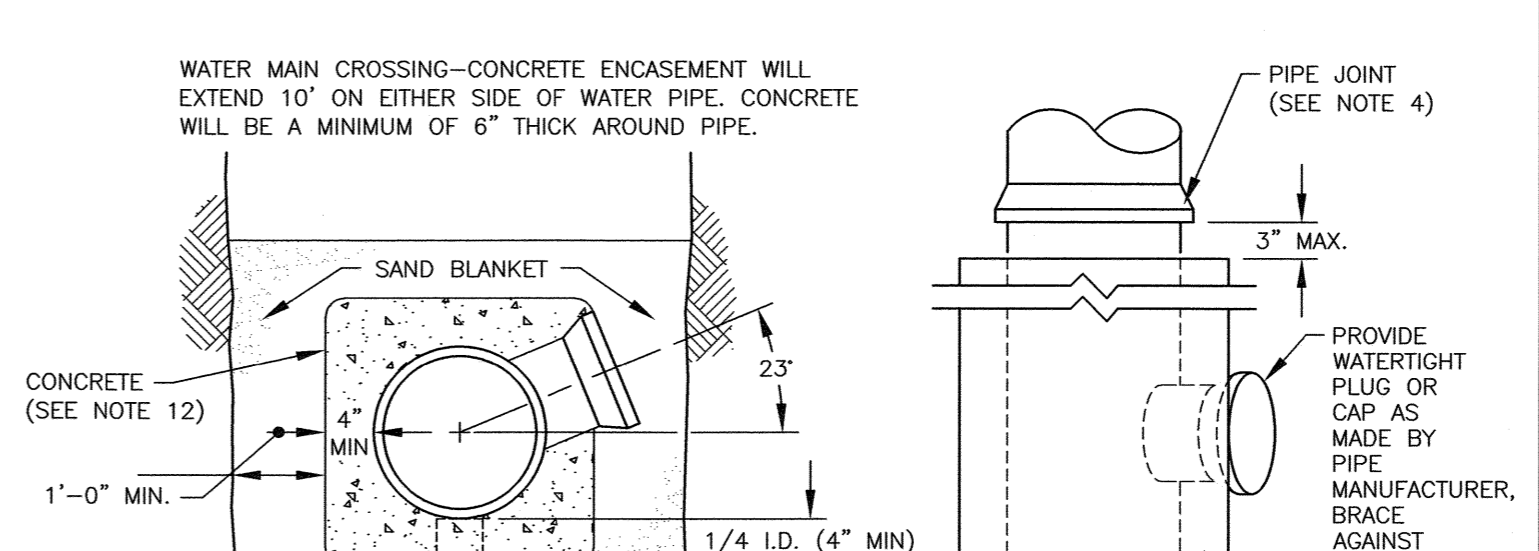
 *PVC: POLYVINYL CHLORIDE
 - JOINT SEALS FOR PVC PIPE SHALL BE OIL RESISTANT COMPRESSION RINGS OF ELASTOMERIC MATERIAL CONFORMING TO ASTM D-3212 AND SHALL BE PUSH-ON BELL AND SPIGOT TYPE.
 - DAMAGED PIPE SHALL BE REJECTED AND REMOVED FROM THE JOB SITE.
 - JOINTS SHALL BE DEPENDENT UPON A NEOPRENE OR ELASTOMERIC GASKET FOR WATER TIGHTNESS. ALL JOINTS SHALL BE PROPERLY MATCHED WITH THE PIPE MATERIALS USED. WHERE DIFFERING MATERIALS ARE TO BE CONNECTED, AS AT THE STREET SEWER WYE OR AT THE FOUNDATION WALL, APPROPRIATE MANUFACTURED ADAPTERS SHALL BE USED.
 - HOUSE SEWER INSTALLATION: THE PIPE SHALL BE HANDLED, PLACED AND JOINTED IN ACCORDANCE WITH INSTALLATION GUIDES OF THE APPROPRIATE MANUFACTURER. IT SHALL BE CAREFULLY BEDDED ON A 4 INCH LAYER OF CRUSHED STONE AND/OR GRAVEL AS SPECIFIED IN NOTE 10. BEDDING AND REFILL FOR DEPTH OF 12 INCHES ABOVE THE TOP OF THE PIPE SHALL BE CAREFULLY AND THOROUGHLY TAMPED BY HAND OR WITH APPROPRIATE MECHANICAL DEVICES.
 - THE PIPE SHALL BE LAID AT A CONTINUOUS AND CONSTANT GRADE FROM THE STREET SEWER CONNECTION TO THE FOUNDATION AT A GRADE OF NOT LESS THAN 1/4 INCH PER FOOT. PIPE JOINTS MUST BE MADE UNDER DRY CONDITIONS. IF WATER IS PRESENT, ALL NECESSARY STEPS SHALL BE TAKEN TO DEWATER THE TRENCH.
 - TESTING: WHEN REQUIRED BY THE GOVERNING AUTHORITY, TESTING SHALL CONFORM TO ENV-WQ 704.09.
 - ILLEGAL CONNECTIONS: NOTHING BUT SANITARY WASTE FLOW FROM HOUSE TOILETS, SINKS, LAUNDRY ETC. SHALL BE PERMITTED. ROOF LEADERS, FOOTING DRAINS, SUMP PUMPS OR OTHER SIMILAR CONNECTIONS CARRYING RAIN WATER, DRAINAGE OR GROUND WATER SHALL NOT BE PERMITTED.
 - HOUSE WATER SERVICE SHALL NOT BE LAID IN SAME TRENCH AS SEWER SERVICE, UNLESS IT IS ON A SHELF 12" HIGHER, AND 18" APART.
 - BEDDING: SCREENED GRAVEL AND/OR CRUSHED STONE, FREE FROM CLAY, LOAM, ORGANIC MATTER AND MEETING ASTM C33 STONE SIZE NO. 67.

100% PASSING	1 INCH SCREEN
90%-100% PASSING	3/4 INCH SCREEN
20%- 55% PASSING	3/8 INCH SCREEN
0%- 10% PASSING	#4 SIEVE
0%- 5% PASSING	#8 SIEVE
- WHERE ORDERED BY THE ENGINEER, OVEREXCAVATE UNSTABLE TRENCH BOTTOM AND BACKFILL WITH CRUSHED STONE.

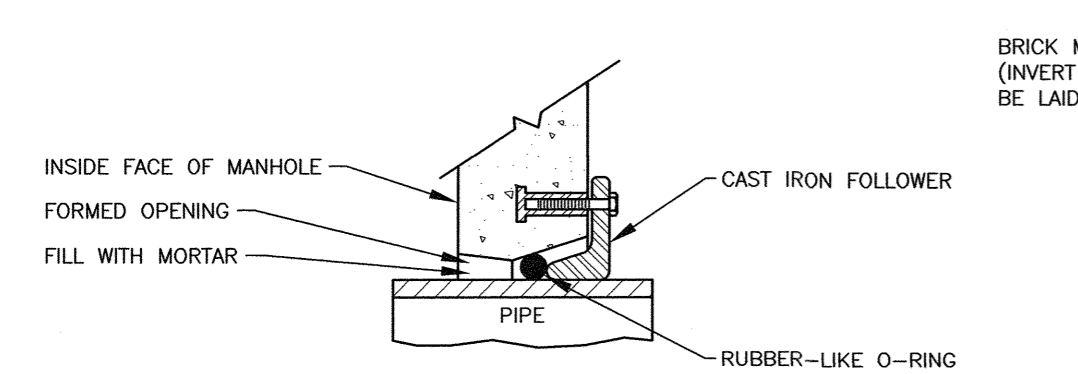
100% PASSING	1 INCH SCREEN
90%-100% PASSING	3/4 INCH SCREEN
20%- 55% PASSING	3/8 INCH SCREEN
0%- 10% PASSING	#4 SIEVE
0%- 5% PASSING	#8 SIEVE
- LOCATION: THE LOCATION OF THE TEE OR WYE SHALL BE RECORDED AND FILED IN THE MUNICIPAL RECORDS. IN ADDITION, A FERROUS METAL ROD OR PIPE SHALL BE PLACED OVER THE TEE OR WYE AS DESCRIBED IN THE TYPICAL "CHIMNEY" DETAIL, TO AID IN LOCATING THE BURIED PIPE WITH A DIP NEEDLE OR PIPE FINDER.
- CAST-IN-PLACE CONCRETE: SHALL CONFORM TO THE REQUIREMENTS FOR CLASS A (3000 PSI) CONCRETE OF THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS AS FOLLOWS:

CEMENT: 6.0 BAGS PER CUBIC YARD
WATER: 5.75 GALLONS PER BAG OF CEMENT
MAXIMUM AGGREGATE SIZE: 3/4 INCH
- BACKFILL UP TO SUBBASE GRAVEL SHALL BE WITH EXCAVATED SOIL FROM TRENCHING OPERATIONS, COMPACT IN 8" LIFTS WITH VIBRATORY PLATE COMPACTORS TO 90% OF MODIFIED PROCTOR DENSITY. IF FINE-GRAINED, COMPACT WITH POGO STICKS OR SHEEPSFOOT ROLLERS. PLACE NO LARGE ROCKS WITHIN 24" OF PIPE. TRENCHES THAT ARE NOT ADEQUATELY COMPACTED SHALL BE RE-EXCAVATED AND BACKFILLED UNDER THE SUPERVISION OF THE DESIGN ENGINEER OR GOVERNING BODY. UNSUITABLE BACKFILL MATERIAL INCLUDES CHUNKS OF PAVEMENT, TOPSOIL, ROCKS OVER 6" IN SIZE, MUCK, PEAT OR PIECES OF PAVEMENT.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR JOB-SITE SAFETY AND COMPLIANCE WITH GOVERNING REGULATIONS.
- ORDERED EXCAVATION OF UNSUITABLE MATERIAL BELOW GRADE. REFILL WITH BEDDING MATERIAL. FOR TRENCH WIDTH SEE TRENCH DETAIL.
- SAND BLANKET: CLEAN SAND, FREE FROM ORGANIC MATTER, SO GRADED THAT 90% - 100% PASSES A 1/2 INCH SIEVE AND NOT MORE THAN 15% WILL PASS A #200 SIEVE. BLANKET MAY BE OMITTED FOR DUCTILE IRON AND REINFORCED CONCRETE PIPE PROVIDED THAT NO STONE LARGER THAN 2 INCHES IS IN CONTACT WITH THE PIPE.
- BASE COURSE GRAVEL, IF ORDERED BY THE ENGINEER, SHALL MEET THE REQUIREMENTS OF DIVISION 300 OF THE LATEST EDITION OF THE:

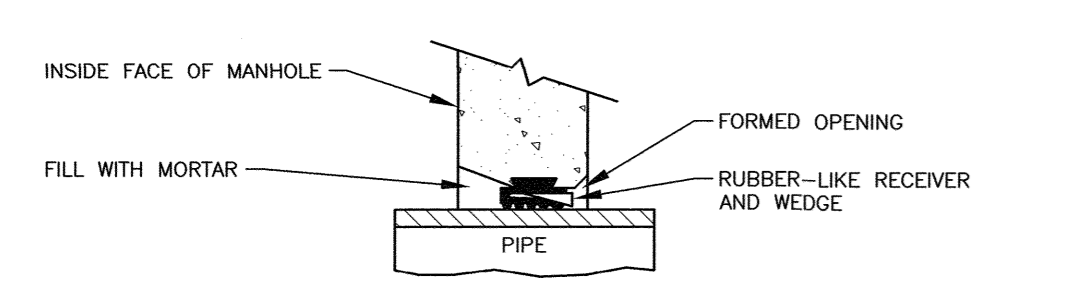
STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION	
OF THE STATE OF NEW HAMPSHIRE, DEPARTMENT OF TRANSPORTATION.	
- IF FULL ENCASUREMENT IS UTILIZED, DEPTH OF CONCRETE BELOW PIPE SHALL BE 1/4 I.D. (4" MIN.) BLOCK SUPPORT SHALL BE SOLID CONCRETE BLOCKS.
- THE CONTRACTOR SHALL NOTIFY DIG SAFE AT 1-888-DIG-SAFE (1-888-344-7233) AT LEAST 72 HOURS PRIOR TO COMMENCING ANY EXCAVATION.
- THE PURPOSE OF THIS PLAN IS TO SHOW STANDARDS FOR SEWER CONSTRUCTION.
- ALL WORK SHALL BE IN COMPLIANCE WITH NHDES CODE OF ADMINISTRATIVE RULES PART ENV-WQ 704 DESIGN OF SEWERAGE.



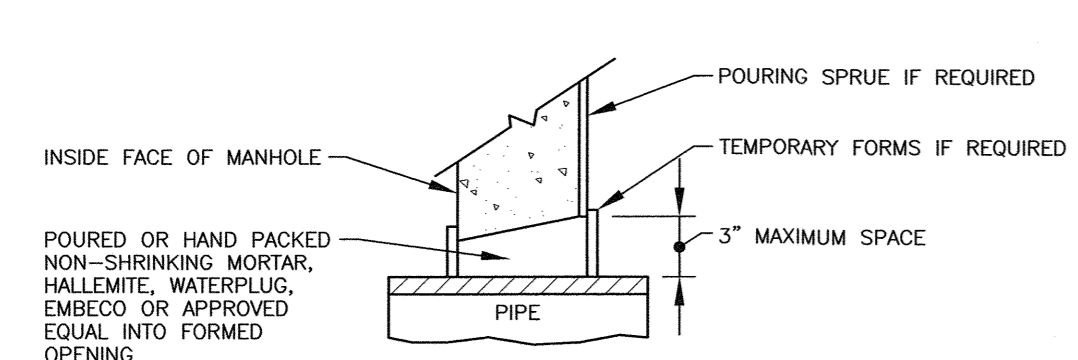
CONCRETE FULL ENCASUREMENT
 NOT TO SCALE



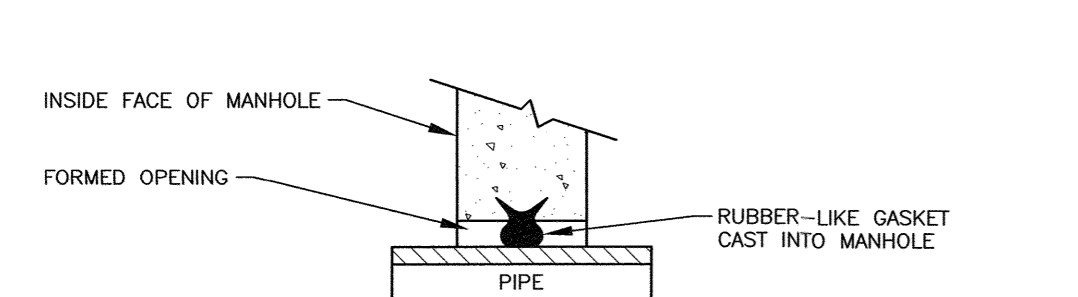
RES-SEAL
 (OR ACCEPTABLE SUBSTITUTE)



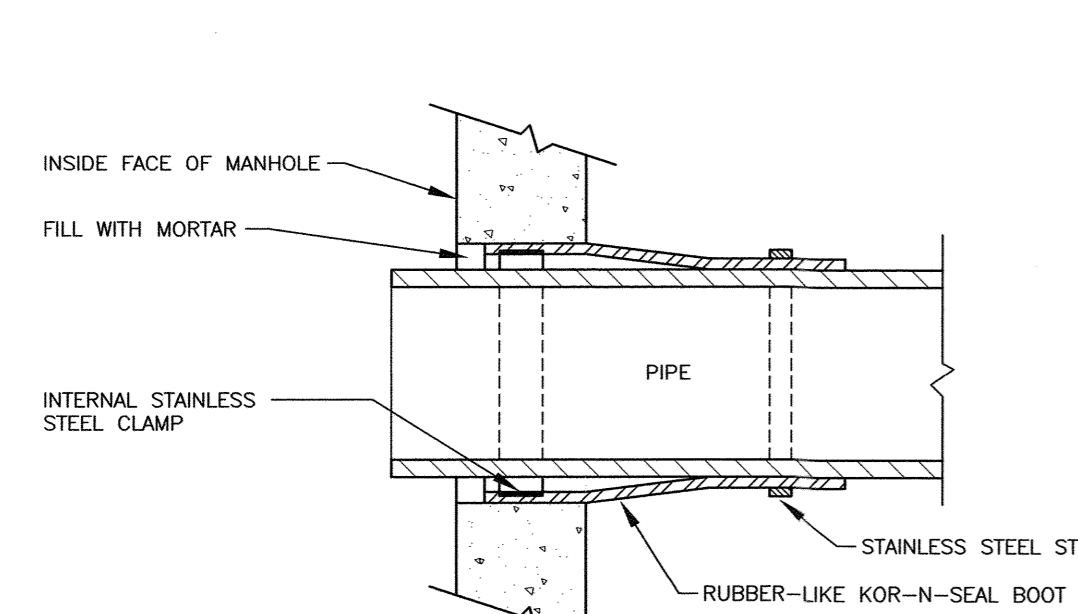
PRESS-WEDGE II
 (OR ACCEPTABLE SUBSTITUTE)



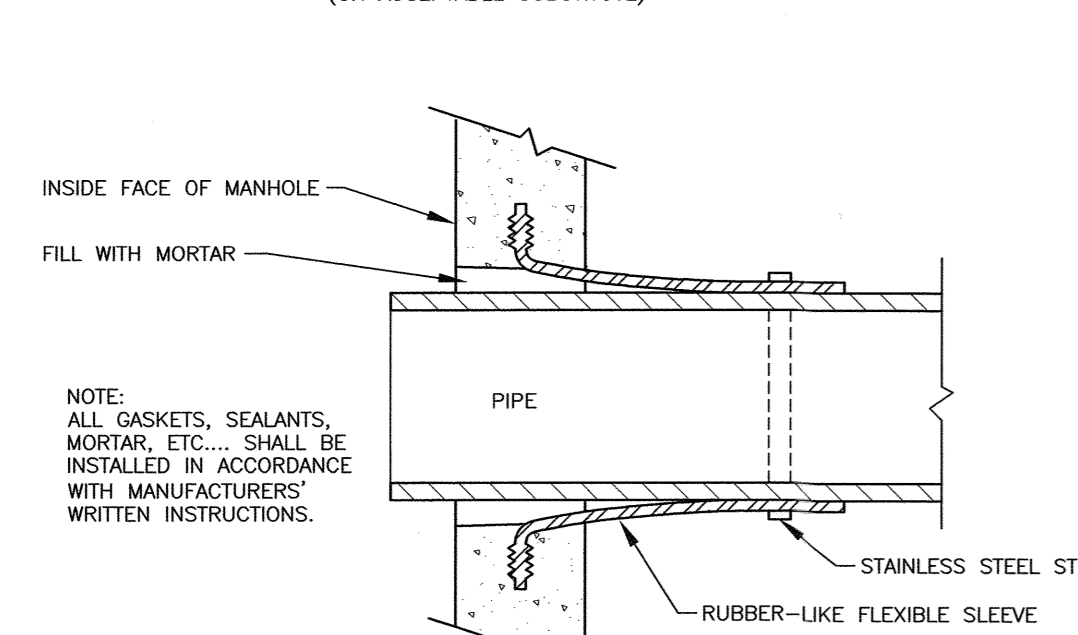
NON-SHRINKING MORTAR
 (OR ACCEPTABLE SUBSTITUTE)



A-LOK
 (OR ACCEPTABLE SUBSTITUTE)



KOR-N-SEAL JOINT SLEEVE
 (OR ACCEPTABLE SUBSTITUTE)



LOCK-JOINT FLEXIBLE MANHOLE SLEEVE
 (OR ACCEPTABLE SUBSTITUTE)

DETAIL "A" - PIPE TO MANHOLE JOINTS

APPROVED BY THE PORTSMOUTH PLANNING BOARD

CHAIRMAN _____ DATE _____

P C4 SEWER MANHOLE DETAILS
 INSTALL PER PORTSMOUTH REQUIREMENTS NTS

INSIDE DROP MANHOLE

CONCRETE FULL ENCASUREMENT
 NOT TO SCALE

P:\Projects\1010135 - Portsmouth Sewer\1010135.dwg, 3/14/2025, 12:13:37 PM, User: jhewitt, Plotter: HP DesignJet 500, Plot Style: haleyward.ctb