Planning and Zoning Department
Telephone (203) 452-5044
Fax (203) 452-5169

Town of Trumbull
CONNECTICUT

Town Hall
5866 Main Street
Trumbull, Connecticut 06611

PLANNING AND ZONING COMMISSION

To: MEMBERS OF THE PLANNING AND ZONING COMMISSION
RE: REGULAR MEETING – **WEDNESDAY, JANUARY 21, 2026**

The Planning and Zoning Commission will hold a Regular Meeting on Wednesday, January 21, 2026, at 7:30 p.m. in the Council Chambers of Trumbull Town Hall.

AGENDA

PUBLIC HEARING
7:30 P.M.

PLEDGE OF ALLEGIANCE

ROLL CALL

PUBLIC HEARING

SPECIAL PERMIT/SITE PLAN/ZONE CHANGE/OTHER

1. **35 Nutmeg Drive:** Applicant, Jonathon Cruz, is requesting a Special Permit Application to allow the operation of a private occupational barber school in an I-L3 zone, pursuant of Article II, Section 4.1.4 of the Town of Trumbull Zoning Regulations. **File #26-01**

2. **Text Amendment:** Applicant, 2105-2125 Reservoir Avenue LLC, is requesting to create Article II, Section 2.8 (Reservoir Apartment District Overlay Zone). Copy of regulation on file with Trumbull P&Z Office and Trumbull Town Clerk. **File #25-18** ***Continued from December 17, 2025***

3. **Zone Change, 2105-2125 Reservoir Avenue:** Applicant, 2105-2125 Reservoir Avenue LLC, is requesting a zone change to the property located at 2105-2125 Reservoir Avenue from Zone A to Reservoir Apartment District Overlay Zone pursuant to Article II, Section 2.8.4 of the Town of Trumbull Zoning Regulations. **File #25-19** ***Continued from December 17, 2025***

4. **2105-2125 Reservoir Avenue:** Applicant, 2105-2125 Reservoir Avenue LLC, is requesting a Special Permit/Site Plan Approval for development of an apartment building with 48 units pursuant to Article II, Section 2.8 of the Town of Trumbull Zoning Regulations. **File #25-20** ***Continued from December 17, 2025***

5. **<u>2135, 2145, & 2155 Reservoir Avenue:</u>** Applicant, Vessel RE Holdings LLC, is requesting a Site Plan Approval for the development of two apartment buildings, totaling 150 units pursuant to Section 8-30g of the Connecticut General Statutes and Article II, Section 2.3 of the Town of Trumbull Zoning Regulations. **File #25-29** ***Continued from December 17, 2025***

<u>REGULAR MEETING</u>

PLANNER'S REPORT

ACCEPTANCE OF MINUTES

Acceptance of the Minutes from the December 17, 2025, Planning and Zoning Commission Regular Meeting

Dated at Trumbull, CT this 15th day of January 2026.
By: Abigail Farrell, Clerk

Plans for the above applications are on file for public inspection in the office of the Planning and Zoning Commission and online on the Town of Trumbull website.

COMMISSION MEMBERS: PLEASE NOTIFY Abigail Farrell, Clerk, AT 203-452-5044 or afarrell@trumbull-ct.gov, IF YOU ARE UNABLE TO ATTEND.

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Department
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PLANNING AND ZONING DEPARTMENT

APPLICATION FOR SPECIAL PERMIT OR SITE PLAN APPROVAL

- ☑ **SPECIAL PERMIT**
- ☐ **SITE PLAN REVIEW**

ZONE:

- ☐ **Commercial Zone B-C, B-C LH, TH Node, MDD**
- ☑ **Industrial Zone I-L, I-L2, I-L3**
- ☐ **Residential Zone A, AA, AAA**
- ☐ **Overlay Zone** _____

Location of Property: 35 Nutmeg Drive Suite 330 + Conference Room

Assessor's Map No.: _____ Parcel No.: _____ Lot No.: _____

Trumbull Land Records: Volume: _____ Page: _____

Applicant: Jonathon Cruz

Address of Applicant: 375 Oceanview Terrace Stratford CT 06614

Telephone Number: Day 203-545-0012 Evening _____

Owner of Record: R.D. Scinto, Inc

Address of Owner of Record: 1 Corporate Drive Shelton CT 06484

Telephone Number: 203-929-6300

Party to be notified: Jonathon Cruz

Address of Attorney or Agent: 35 Nutmeg Drive Trumbull CT 06611

Telephone Number: 203-545-0012

Site Engineer: _____

Address of Engineering Company: _____

Telephone Number: _____

Relevant Article(s) and Section(s) of the Regulations: (i.e. Art__, Sec __)

Article IV, Section 1.4.
Private Occupational School (special Permit Use)

Description of the proposed request, including specific use to be conducted:

Operation of a Private Occupational Barber School offering classroom and hands on training. No structual Changes. Low Impact educational use.

Is the property within 500 feet of another municipality?

☐ YES ☒ NO

Does this proposal involve a structure that was built before 1940?

☐ YES ☒ NO

Does this proposal require the approval of the Inland Wetlands Agency?

☐ YES ☒ NO

Are there any deed restrictions on this property that may affect this application?

☐ YES ☒ NO

Has a previous application been filed for this property?

☐ YES ☒ NO

If yes, when? _____ Attach a copy of decision letter.

Project is to be started on _____ Completed on _____

List of Federal and State permits required and their status:

_____

_____

_____

Certification

I/We certify that all of the above information and statements contained in any documentation submitted with the application are true to the best of my/our knowledge.

I/We fully understand that the Planning and Zoning Commission reserves the right to revoke any permit should the information contained herein not be true or that the information requested by the application has not been fully disclosed.

Signature of Owner

12/10/25
Date

Signature of Applicant (if not property owner)

12/10/25
Date

NOTICE: By signing this application, owner and applicant consent to site inspections by Town Staff and/or Commissioners.

A FEE IN ACCORDANCE WITH APPROVED FEE SCHEDULE MUST ACCOMPANY THIS APPLICATION. Make check payable to TOWN OF TRUMBULL.

FOR OFFICE USE ONLY

Date Application and Fee Received:_____ By:_____

Date of Public Hearing:_____ Date Action Taken:_____

List of Abutters Submitted:_____

Revised 10/21/2025

NARRATIVE FOR SPECIAL PERMIT REQUEST

Applicant: Jonathon Cruz
Business: Feel How You Look Education Studio
Property Address: 35 Nutmeg Drive, Suite 330 – Conference Room, Trumbull, CT
Owner: R.D. Scinto, Inc.

The applicant proposes to operate a Private Occupational Barber School providing state-approved classroom instruction and supervised hands-on barber training. The school will operate within the existing commercial space at 35 Nutmeg Drive, Suite 330, including the conference room area as specified in the lease agreement.

Instruction will be conducted within the existing tenant space using separate instructional settings, including classroom-based theory instruction and supervised practical training. Students will be organized into small, supervised instructional groups, and activities will be scheduled to avoid simultaneous peak occupancy. The program will operate in compliance with Connecticut state licensing requirements and all instruction will be supervised by licensed instructors.

No structural changes, construction, or site modifications are proposed. All activity will take place indoors, using the existing approved building layout. The proposed use is designed to function as a low-impact educational operation, with no assemblies, no special events, and no walk-in public traffic.

The space has already received approvals from the Fire Marshal, Building Department, and Health Department for its current configuration. Parking capacity and traffic impact will remain consistent with existing conditions and are sufficient for the proposed use.

This application is submitted under Article IV, Section 1.4 of the Trumbull Zoning Regulations, which identifies “Private Occupational School” as a use permitted by Special Permit in the Industrial (IL) Zone.

BUILDING CODE INFORMATION

CODE INFORMATION
HEIGHT AND AREA COMPUTATIONS – TYPE IBC IIB

USE GROUP CLASSIFICATION (SEC 302.1): B–BUSINESS

BUILDING HEIGHT: 3 STORIES FULLY SPRINKLERED BUILDING

BUILDING FLOOR AREAS

FIRST FLOOR = 166,212 S.F.
MEZZANINE FLOOR = 9,520 S.F.
SECOND FLOOR = 53,115 S.F.
THIRD FLOOR = 53,843 S.F.

TOTAL = 282,690 S.F.

TENANT – 1,855 S.F.

S.F./150= 12 OCCUPANTS

MAX. COMMON PATH OF TRAVEL:
I.B.C.: 100 FT NFPA.: 100 FT

MAX. TRAVEL DISTANCE
I.B.C.: 300 FT

CODES TO WHICH THIS SPACE WAS DESIGNED

2022 CONNECTICUT STATE BUILDING CODE (CSBC)
- INTERNATIONAL BUILDING CODE / 2021
- ICC / ANSI A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES / 2017
- INTERNATIONAL EXISTING BUILDING CODE / 2021
- INTERNATIONAL PLUMBING CODE / 2021 (IPC)
- INTERNATIONAL MECHANICAL CODE / 2021 (IMC)
- INTERNATIONAL ENERGY CONSERVATION CODE / 2021 (IECC)
- NATIONAL ELECTRICAL CODE, NFPA 70 / 2020 (NEC)

2022 CONNECTICUT STATE FIRE CODE (CSFSC)
- 2021 INTERNATIONAL CODE COUNCIL (ICC) INTERNATIONAL FIRE CODE
- 2021 NATIONAL FIRE PROTECTION ASSOCIATION 101 LIFE SAFETY CODE (NFPA) 101

2022 CONNECTICUT STATE FIRE PREVENTION CODE
- 2021 NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)1–FIRE CODE

2018 CONNECTICUT STATE ELEVATOR CODE
- ASME A17.1 – 2013 SAFETY CODE FOR ELEVATORS AND ESCALATORS

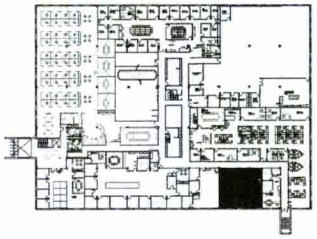
PARTITION TYPES

* FOR ALL PARTITION TYPES, WHERE PARTITION IS PART OF A WASHROOM, PANTRY OR JANITOR ROOM WALL, THE ROOM SIDE SHALL RECEIVE ONE LAYER 5/8" MOISTURE RESISTANT GYPSUM BOARD. TYPICAL.

TYPE 1 –NEW DRYWALL PARTITION:
3 5/8" METAL STUDS, 20 GAUGE, @ 16" O.C. (MAX.) WITH ONE LAYER OF 5/8" GYPSUM BOARD EACH SIDE, FROM TOP OF FLOOR SLAB TO 6" ABOVE FINISHED CEILING, WITH 3" MINERAL FIBER SOUND ATTENUATED BATT INSULATION, TAPED AND SPACKLED.

TYPE 2 –EXISTING DRYWALL PARTITION:
3 5/8" METAL STUDS, 20 GAUGE, @ 16" O.C. (MAX.) WITH ONE LAYER OF 5/8" FIRECODE 'C' GYPSUM BOARD EACH SIDE FROM TOP OF FLOOR SLAB TO 6" ABOVE FINISHED CEILING, WITH 3" MINERAL FIBER SOUND ATTENUATED BATT INSULATION, TAPED AND SPACKLED.

TYPE 3 – ONE HOUR RATED DRYWALL WALL PARTITION U.L.# 9:
3-5/8" METAL STUDS, 20 GAUGE, @ 16" O.C. (MAX.) WITH ONE LAYER OF 5/8" GYPSUM BOARD EACH SIDE, FROM FLOOR SLAB TO UNDERSIDE OF DECK WITH 3" MINERAL FIBER SOUND ATTENUATION BATT INSULATION. SEALED TOP OF WALL, TAPED & SPACKLED.

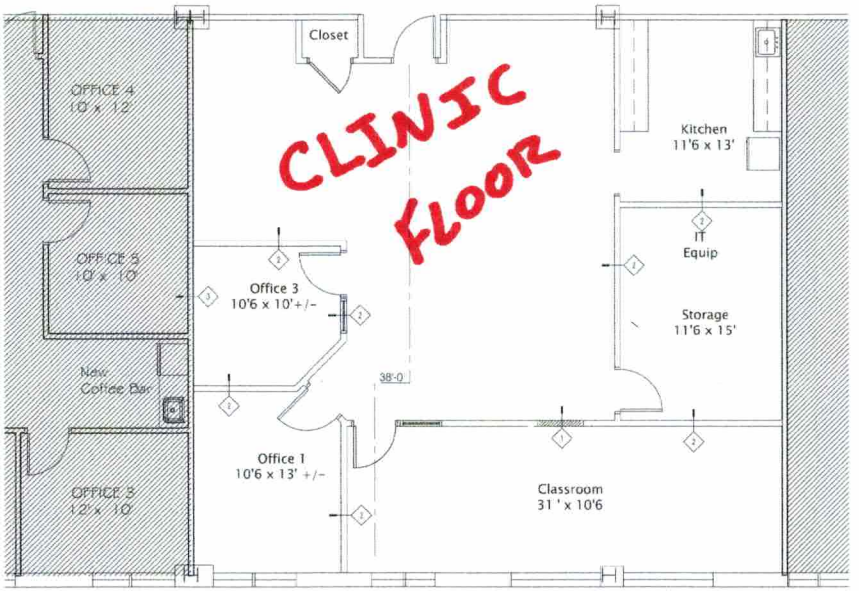


CONSTRUCTION DRAWINGS
SEPTEMBER 4,2024

FEEL HOW YOU LOOK

35 Nutmeg Drive
Trumbull, CT

LIST OF DRAWINGS
C1.0 COVER/CODE SHEET
A1.0 FLOOR PLAN



ROSE • TISO & CO. LLC.
ARCHITECTS • SURVEYORS • ENGINEERS

WWW.ROSETISO.COM
25 BRENTWOOD AVENUE, FAIRFIELD, CT 06825
TEL: (203)610-6392 • FAX: (203)610-6404

REVISIONS			
NO.	BY	DATE	DESCRIPTION

PROJECT TITLE
FEEL HOW YOU LOOK
35 NUTMEG DRIVE
TRUMBULL, CT

SHEET TITLE
COVER/CODE SHEET

DESIGNED BY:	SCALE: 1/4"=1'-0"
DRAWN BY:	DATE: 09.04.2024
CHECKED BY:	PROJECT NUMBER:
CAD FILE:	

SEAL

SHEET NUMBER
C1.0

hallway. connects to separate men and women bathrooms

Shampoo sinks (3)

hot water tank

stations (2)

NEW LVT IN OPEN AREA.
USE EXISTING CARPET TO PATCH
MEETING ROOM

Handwash sink

Kitchen
11'6 x 13'

sanitation sink (utility)

Office 3
10'6 x 10'+/-

Storage
11'6 x 15'

10'6 x 13' +/-
Break Room

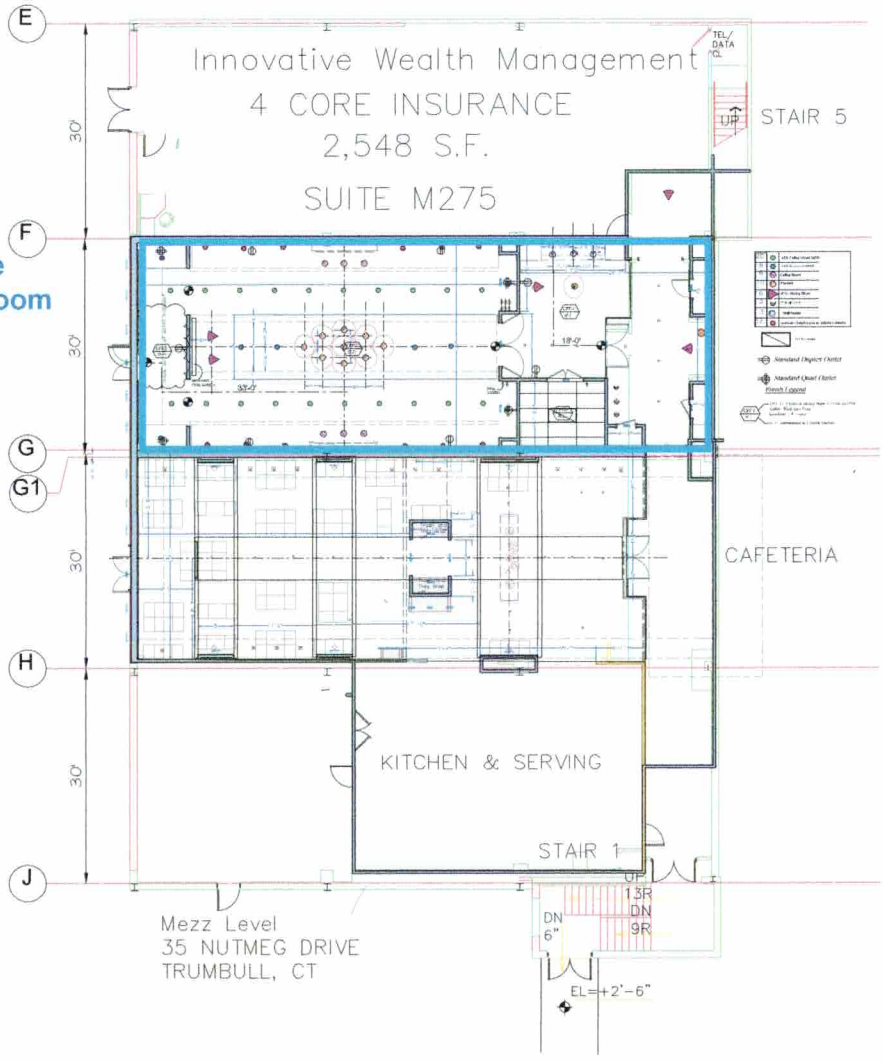
Classroom
31 ' x 10'6

RESWITCH LIGHTS
DELETE EXTRA SWITCH

1,855 S.F.

Suite 330 3rd Floor
35 Nutmeg Drive
Trumbull CT 06611

Mezzanine Conference Room



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03791

Doc ID: 003207430005 Type: LAN
Book 1655 Page 240 - 244
File# 3791

TO ALL PEOPLE TO WHOM THESE PRESENTS SHALL COME, GREETING:

THIS SPECIAL WARRANTY DEED, made effective as of December 9, 2013 between **WBCMT 2007-C31 TRUMBULL OFFICE, LLC**, a Delaware limited liability company ("**Grantor**"), whose address is c/o LNR Partners, LLC, 1601 Washington Avenue, Suite 700, Miami Beach, Florida 33139, in favor of **35 NUTMEG DRIVE, LLC**, a Connecticut limited liability company ("**Grantee**"), whose address is 1 Corporate Drive, Suite 100, Shelton, Connecticut 06484:

WITNESSETH THAT:

Grantor, for and in consideration of the sum of Ten and No/100 U.S. Dollars ($10.00), lawful money of the United States of America, to it in hand paid by Grantee, at or before the unsealing and delivery of these presents, the receipt of which is hereby acknowledged, has granted, bargained, sold, aliened, remised, released, conveyed and confirmed and by these presents does grant, bargain, sell, alien, remise, release, convey and confirm unto Grantee and its successors and assigns forever, the parcel of land, with the building and improvements thereon erected, situate, lying and being in the Town of Trumbull, County of Fairfield, State of Connecticut, and more particularly described on the attached **Exhibit A** (the "**Property**").

TO HAVE AND TO HOLD the Property, with all the appurtenances thereof, unto Grantee, and unto its successors and assigns forever, to its and their own proper use and benefit.

AND Grantor hereby specially warrants the title to the Property is good, indefeasible, in fee simple and that Grantor has the right to bargain and sell the Property in the manner and form as set forth above.

AND ALSO, Grantor does for itself and for its successors and assigns, covenant with Grantee, and with its successors and assigns, that Grantor has not done or suffered anything whereby the Property has been encumbered in any way, except as set forth on the attached **Exhibit B**.

AND FURTHERMORE, Grantor does by these presents bind itself and its successors and assigns forever to specially warrant the title to the Property and will defend the same against the lawful claims and demands of any persons claiming by, through or under Grantor, but against none other.

[SIGNATURE PAGE FOLLOWS]

6250.00 Conveyance Tax Received
Suzanne Burr Monaco
State Town Clerk of Trumbull Town
1250.00

MIAMI 3932770.2 72496/37705

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Grantor has executed and delivered this Special Warranty Deed as of the date first above written.

Witnesses:

WBCMT 2007-C31 TRUMBULL OFFICE, LLC, a Delaware limited liability company

By: LNR Partners, LLC, a Florida limited liability company, successor by statutory conversion to LNR Partners, Inc., a Florida corporation, its manager

Signature: _____
Print Name: Rodolfo Rincon

Signature: _____
Print Name: Jiannell Tavarez

By: _____
Name: Steven D. Ferreira
Title: Vice President

STATE OF FLORIDA)
) SS.
COUNTY OF MIAMI-DADE)

The foregoing instrument was acknowledged before me this 03 day of December, 2013 by Steven D. Ferreira, as Vice President of LNR Partners, LLC, a Florida limited liability company, successor by statutory conversion to LNR Partners, Inc., a Florida corporation, as manager of **WBCMT 2007-C31 TRUMBULL OFFICE, LLC**, a Delaware limited liability company, on behalf of the company. He ___ is personally known to me or ___ has produced a driver's license as identification.

JIANNELL TAVAREZ
My Comm. Expires Jul 7, 2016
No. EE 203922
NOTARY PUBLIC
STATE OF FLORIDA

Notary Public _____
Print Name: Jiannell Tavarez
Serial No. (if any): EE203922

MIAMI 3932770.2 72496/37705

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EXHIBIT A
LEGAL DESCRIPTION

Real property known as 35 Nutmeg Drive, in the Town of Trumbull, County of Fairfield, State of Connecticut, described as follows:

A certain piece or parcel of land together with the buildings and improvements thereon situated in the Town of Trumbull, County of Fairfield and State of Connecticut located on the southerly side of Nutmeg Drive and the northwesterly terminus of Merritt Boulevard, Trumbull, CT, as depicted on a map entitled "ALTA/ACSM Land Title Survey prepared for Fairhaven Investors Limited Partnership, 35 Nutmeg Drive, Trumbull, Connecticut Scale 1" = 50' dated November 20, 2006 (revised February 28, 2007) as further revised March 16, 2007," prepared by F.A. Hesketh & Associates, Inc., said parcel containing 19.40 Acres, more or less, and being more particularly bounded and described as follows:

Commencing at a point on the southerly side of Nutmeg Drive, said point being the northwesterly corner of land n/f Nasdaq Stock Market, Incorporated.

Thence proceeding along the westerly side of land n/f Nasdaq Stock Market, Incorporated: S 29°30'21" E: 510.0 Feet; thence proceeding to the southerly corner of said land n/f the Nasdaq Stock Market, Incorporated: N 60°29'39" E, 78.35 feet.

Thence proceeding along the westerly side of land n/f Nasdaq, Incorporated S 17°40'46" E, 510.71 feet to a point on the northerly side of Merritt Boulevard.

Thence proceeding along the northerly side of Merritt Boulevard: S 74°33'23" W; 3.59 feet to the beginning of a curve.

Thence proceeding along said curve a distance of 41.89 feet deflecting westerly, having a delta of 60°00'00" and a radius of 40.00 feet to the beginning of another curve.

Thence proceeding along said curve a distance of 208.77 feet deflecting southerly having a delta of 199°21'23", and a radius of 60.00 feet.

Thence proceeding along the easterly and southerly side of land n/f Town of Trumbull and Prime Development Group LLC each in part the following courses; S 64°00'00" W; 270.06 feet, S 73°00'00" W; 120.00 feet and S 22°00'00" W, 53.52 feet.

Thence proceeding along the easterly and southerly side of the Merritt Parkway, State of Connecticut the following courses: along a curve deflecting westerly a distance of 365.82 feet having a delta of 06°44'06", and a radius of 3,112.16 feet to a point of a curve having a distance of 107.60 feet deflecting westerly with a delta of 08°40'58" and a radius of 710.00 feet, thence proceeding N 20°20'27" W, 35.28 feet; N 49°50'27" W, 180.00 feet; N 33°50'27" W, 182.00 feet; N 14°20'27" W, 181.00 feet; N 00°39'33" E, 45.12 feet to the beginning of a curve deflecting northerly a distance of 77.63 feet, having a delta of 74°07'58" and a radius of 60.00 feet, N 60°29'39" E, 141.08 feet to a point on the westerly terminus of Nutmeg Drive.

Thence proceeding along the southerly terminus of Nutmeg Drive along a curve deflecting northerly a distance of 125.66 feet, having a delta of 120°00'00", and a radius of 60.00 feet to a point; thence proceeding N 60°29'39" E, 540.12 feet to the point and place of commencement.

Together With a Sanitary Sewer Easement dated February 18, 1988 and recorded in Volume 650 at Page 413 of the Trumbull Land Records.

MIAMI 3932770.2 72496/37705

EXHIBIT B

1. Real estate taxes to the Town of Trumbull for the third and fourth quarters, not yet due and payable, on the List of October 1, 2013.

2. Real estate taxes to the Town of Trumbull on the List of October 1, 2013, not yet due and payable.

3. Easement from The Trumbull Development Corporation to The United Illuminating Company dated August 21, 1967 and recorded August 28, 1967 in Volume 196 at Page 182 of the Trumbull Land Records.

4. Certificate of variance to construct and operate a full service bank branch office recorded July 20, 1979 in Volume 428 at Page 160 of the Trumbull Land Records.

5. Certificate of special permit to construct, operate and maintain a bank branch office recorded July 20, 1979 in Volume 428 at Page 162 of the Trumbull Land Records.

6. Certificate of special permit to construct an addition for storage of flammable liquid recorded January 27, 1981 in Volume 447 at Page 84 of the Trumbull Land Records.

7. Certificate of special permit to construct an addition for use as storage and garage recorded November 23, 1981 in Volume 456 at Page 558 of the Trumbull Land Records.

8. Certificate of special permit to maintain a helicopter landing pad recorded May 25, 1982 in Volume 462 at Page 127 of the Trumbull Land Records.

9. Certificate of special permit to erect a 60,000 sq. ft. office building with associated parking recorded September 27, 1982 in Volume 469 at Page 33 of the Trumbull Land Records.

10. Inland Wetlands Permit for construction of an 180,000 sq. ft. building recorded December 15, 1982 in Volume 474 at Page 139 of the Trumbull Land Records.

11. Easement from Bunker Ramo-Eltra Corporation to The United Illuminating Company and The Southern New England Telephone Company dated May 10, 1983 and recorded May 10, 1983 in Volume 485 at Page 242 of the Trumbull Land Records.

12. Certificate of special permit to expand parking lot recorded March 31, 1988 in Volume 654 at Page 54 of the Trumbull Land Records.

13. Certificate of special permit to add parking spaces to an existing parking lot recorded April 17, 1989 in Volume 685 at Page 67 of the Trumbull Land Records.

14. Certificate of variance for non-visitor parking spaces in a front yard in an Industrial Zone recorded April 17, 1989 in Volume 685 at Page 68 of the Trumbull Land Records.

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15. Terms and conditions of the lease dated as of June 26, 2000 between Fairhaven Investors Limited Partnership (Landlord) and Gartner Group, Inc. (Tenant) evidenced by the Notice of Lease recorded July 27, 2000 in Volume 1050 at Page 1 of the Trumbull Land Records.

16. Notice of special permit to establish a sports performance training center recorded September 10, 2003 in Volume 1244 at Page 133 of the Trumbull Land Records.

17. Notice of special permit modification to install awning (with signage) over stairwell entrance to building recorded May 24, 2004 in Volume 1286 at Page 892 of the Trumbull Land Records.

18. Zoning and other regulatory laws and ordinances affecting the Property.

19. Matters that would be disclosed by an accurate survey.

TOWN CLERK OFFICE, TRUMBULL, CT
RECEIVED FOR RECORD DEC 12 2013
AT 1:50 P M. ATTEST TOWN CLERK

MIAMI 3932770.2 72496/37705

Department of Public Safety
Division of Fire, Emergency & Building Services
Office of State Fire Marshal

STATE OF CONNECTICUT

On *(date)* 3/27/2025, the *(Town/City)* Trumbull Office of the Fire Marshal conducted an inspection of *(name of facility)* Feel How You Look Education Studio located at *(address)* 35 Nutmeg Drive in the City/Town of Trumbull to determine the degree of compliance with the fire safety requirements of Connecticut General Statutes Chapter 541 as authorized by Section 29-305 of the statutes. This facility was evaluated as a *(new/existing)* existing *(occupancyclassification)* business as classified by the *CONNECTICUT FIRE SAFETY CODE*. As a result of this inspection, the following conditions were found:

Suite 330 and Mezzanine Conference Room

I. At the time of inspection, no code violations were identified. **Certificate of approval recommended.**

II. At the time of inspection, conditions were discovered to be contrary to the minimum requirements of these codes. An acceptable plan of correction was submitted. *(See attached information)* **Certificate of approval recommended.**

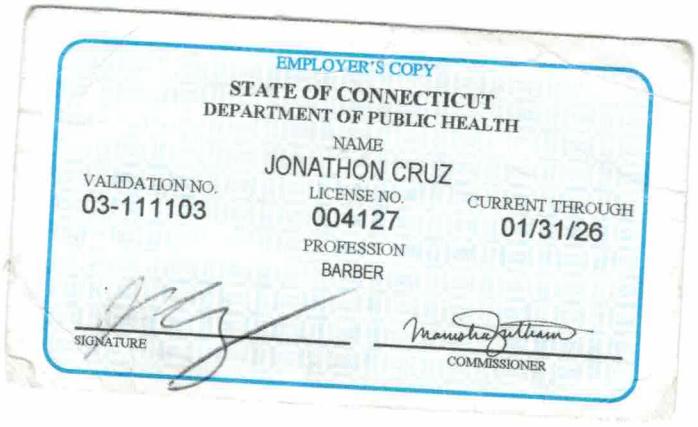
III. At the time of inspection, conditions were discovered to be contrary to the minimum requirements of these codes. No approved plan of correction was submitted. *(See attached information)* **Certificate of approval NOT recommended.**

IV. Based on the extreme hazard to public safety discovered at the time of inspection, this office is currently seeking an injunction from the court through out Town/City Attorney for the purpose of closing or restricting usage of this facility by the public. *(See attached information)* **Certificate of approval NOT recommended.**

Megan Murphy
Fire Marshal

3/27/2025
Date

City or Town: Trumbull



EMPLOYER'S COPY

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

NAME
JONATHON CRUZ

VALIDATION NO.
03-111103

LICENSE NO.
004127

CURRENT THROUGH
01/31/26

PROFESSION
BARBER

SIGNATURE

COMMISSIONER

Secretary of the State of Connecticut
Certificate of Legal Existence

Certificate of Legal Existence Certificate

Date Issued: Wednesday, December 03, 2025 7:54 PM

I, the Connecticut Secretary of the State, and keeper of the seal thereof, do hereby certify, that the certificate of organization for the below domestic limited liability company was filed in this office.

A certificate of dissolution has not been filed, and so far, as indicated by the records of this office, such limited liability company is in existence.

Business Details

Business Name	Feel How You Look LLC
Business ALEI	US-CT.BER:3034539
Formation Date	07/08/2024

Secretary of the State

ARTICLE II, SECTION 2.8

2.8 Reservoir Apartment District Overlay Zone

2.8.1. Purpose

Reservoir Apartment District ("RAD") may be established by the Planning and Zoning Commission in accordance with the procedures hereinafter specified. The provisions of this Section are designed to permit modification of the strict application of the standards and provisions of these Regulations to accomplish the purposes set forth below. A RAD may be established by the Commission when found necessary and appropriate for the following purposes:

To permit the use land, buildings and other structures for purposes that would be beneficial to the Town and the long range improvement of the neighborhood and consistent with the comprehensive plan of development as adopted by the Commission, when such uses are located on tracts of land sufficient size to accommodate harmonious design of buildings, structures and facilities in connection with the use and when another zoning district could not be appropriately established to accomplish such purposes, and shall allow the construction of apartments.

2.8.2 Establishment of District

1. The Commission shall establish the RAD for a particular parcel after application and public hearing(s). If adopted for a particular parcel, such adoption shall constitute a zoning map amendment.

2. The following characteristics are required for a site to be eligible for the RAD designation:

    a. <u>RAD Size and Zone:</u> A RAD shall contain a gross area of not less than 1 acre, and no larger than 5 acres and be in an underlying Residence Zone.

b. Sanitary Sewer and Public Water: The RAD will only be considered if the proposed apartment buildings will be connected to public sanitary sewers and approved by Trumbull WPCA.

c. Street Location: The RAD must be in a Residential Zone A south of Rt. 15 with an address on Reservoir Avenue.

d. Allowed Uses:

i. Residential units at a density of no more than 50 dwelling units.
ii. 70% of the units must be one bedroom.
iii. Community facilities such as a community building and recreational amenities for the exclusive use by residents of the RAD only. These facilities shall not be made available, under any circumstances, for use by the public on any basis.

e. Height, Area, and Bulk Standards:

i. No building shall exceed a height of 65 feet – 5 stories.
ii. Maximum building lot coverage shall not exceed 60%.

f. Buffers and Setbacks:

i. Except as provided for herein, all residential buildings, garages, community service facilities and accessory uses shall meet a minimum building setback of 10 feet from Reservoir Avenue, 0 feet from rear property lines, 0 feet from side yard property lines.

g. Parking and Site Circulation Standards:

i. Parking shall be provided at a rate of 1.25 spaces per one bedroom and studio and 2 per two bedroom units.

ii. Vehicle circulation shall be provided in any number or combination of the following private roads and/or drives:

i. Internal Roads: Internal roads are private primary vehicular corridors, which collect driveways/alleyways/mews and outlet onto public roads. Storm drains shall be designated and constructed in accordance with all building, zoning and wetland codes and as approved by the Town Engineer.

ii. Traffic Report: A written traffic report shall be submitted by a qualified professional engineer.

h. Building Standards:

i. There may only be studios, one bedroom and two bedroom units.
ii. Architectural design plans, including general floor plans, exterior elevations, including the specific types of materials to be used on the exterior buildings must be shown to the Commission.
iii. All utilities shall be underground.

i. Landscaping. Open Space and Lighting.

i. In order to assure the high-quality visual aesthetic, and long-term compatibility with neighbors, a master landscape plan, along with a detailed landscape plan, shall be provided, prepared by a Connecticut- licensed landscape architect and approved by the Town Planner.
ii. Lighting shall employ decorative light poles and fixtures that are night sky compliant and full cut-off with a maximum height of 20 feet for all areas with pedestrian orientation.
iii. Larger parking areas may use generic nondecorative poles and fixtures.

j. Trash Removal:

i. Trash enclosures, when utilized, shall be adequately screened by fencing and/or architectural elements and landscaping which harmonizes with the development in general.

ii. Trash enclosures shall meet setback requirements, as described above.

k. Storm Water Management:

i. A written engineering report addressing storm drainage and storm water detention shall be in compliance with Article 1 Section 5 (5.3) Sediment and Erosion Control Plan and subject to Article 10 of the Zoning Regulations and Town Engineering storm water management and design standards.
ii. A statement from the town engineer as to the adequacy of the drainage and storm water management plans.

l. Fire Suppression: The water system within the development shall deliver adequate water pressure to provide safe and efficient fire protection, in the opinion of the fire marshal.

m. Commercial Vehicles: Commercial vehicles may not be stored, parked or maintained on-site unless such commercial vehicle is being used as part of an active construction project. In such event, the commercial vehicle may not be maintained, stored or parked on-site for a period longer than 30 days.

2.8.3 Bond

i. The Commission may require a surety bond to guarantee the

a. The installation and completion of measures and facilities required for soil and erosion control plan.

2.8.4 Application Procedure for Zone Change

An application for a zone change to the RAD must include the following:

a. An Application for a Special Permit with accompanying Site Plan in accordance with Article XV of these Regulations.

b. A written statement describing how the proposal complies with the purposes set forth in these Regulations.

c. Final approval from the Trumbull Inland Wetlands and Watercourses Commission for the project proposed in the Special Permit application. Said approval to be obtained prior to applying for a zone change to the Planning and Zoning Commission.

d. Final approval from the Trumbull Water Pollution Control Authority for the project proposed in the Special Permit Application. Said approval to be obtained prior to applying for a zone change to the Planning and Zoning Commission.

e. Final approval from the Trumbull Police Commission for the project proposed in the Special Permit application. Said approval to be obtained prior applying for a zone change to the Planning and Zoning Commission.

The Commission may approve a petition to change the zone to the Overlay Zone if it conforms to the purposes set forth in this regulation.

With respect to any standard or guideline established by this Section, the terms of this regulation shall supersede, or in the event of any conflict prevail over, any other provision established by these Regulations.

November 3rd, 2025

Mr. Fred Garrity Jr., Chairman
Planning and Zoning Commission
Town of Trumbull
Trumbull Town Hall
5866 Main Street 2nd Floor
Trumbull, Connecticut 06611

Re: **Zoning Text Amendment: Article II, Section 2.8 "Reservoir Apartment District Overlay Zone"**

Dear Mr. Garrity,

The Connecticut Metropolitan Council of Governments (MetroCOG) is in receipt of the above referenced referral relating to the revision of Article II, Section 2.8 "Reservoir Apartment District Overlay Zone."

The proposed text amendment serves to establish the standards for the creation of a "Reservoir Apartment District" overlay zone along Reservoir Avenue south of Route 15 within the existing Residential Zone A. The "Reservoir Apartment District" would be limited to properties with a size between 1 and 5 acres, connection to public sanitary sewers with approval from the Trumbull WPCA, and with an allowable use of no more than 50 dwelling units on the site among other defined criteria.

MetroCOG's review of the proposed text amendment found that it is **not** regionally significant. Consideration should be examined to "Landscaping, Open Space, and Lighting," to ensure that native non-invasive species are planted, as per the Connecticut Department of Energy and Environmental Protection suggestion of "Right Tree, Right Place." Further, requirements for night sky compliant lighting should be considered to be extended to "larger parking areas" to ensure consistency and maximize the effectiveness.

If you have any questions, please do not hesitate to contact me at 203-366-5405.

Sincerely,

Matt Fulda
Executive Director

cc: Mr. Robert Librandi, Planning Director, Town of Trumbull

Ms. Linda Finger, Planning & Zoning, Town of Trumbull

PLANNING AND ZONING COMMISSION
TOWN OF TRUMBULL

REQUEST FOR ZONE CHANGE

Date: 5/21/25

Name of Applicant: 2105-2125 Reservoir Ave LLC Phone # _____

Address of Applicant: 20 Virginia Drive, Easton, CT 06612

Email address: [redacted]

Location of Property: 2105-2125 Reservoir Avenue

Present Zoning District Zone A

Proposed Zoning District Reservoir Apartment District Overlay Zone

Assessor's Map No. G Parcel No. 11 Lot No. 70 & 97

Legal Description, on separate sheet, to be attached hereto.

Owner of Record: 2105-2125 Reservoir Ave LLC

Address of Owner of Record: _____

Reason for Hearing: Change the zone to the overlay zone in order to file special exception for 48 unit apartment building.

Signature of Applicant: _____

Signature of Owner: _____

A FEE IN THE AMOUNT OF $460.00 MUST ACCOMPANY THIS APPLICATION.
Make check payable to TOWN OF TRUMBULL.

A 500 FOOT RADIUS MAP MUST ACCOMPANY THIS APPLICATION.

BEGINNING AT A POINT ON THE WEST LINE OF RESERVOIR AVENUE

THENCE S 02°21'57" E A DISTANCE OF 100.00' A LONG RESERVOIR AVENUE

THENCE S 87°38'03" W A DISTANCE OF 214.30'

THENCE S 01°01'13" W A DISTANCE OF 101.84'

THENCE S 88°25'43" W A DISTANCE OF 174.74'

THENCE N 87°04'47" W A DISTANCE OF 82.10'

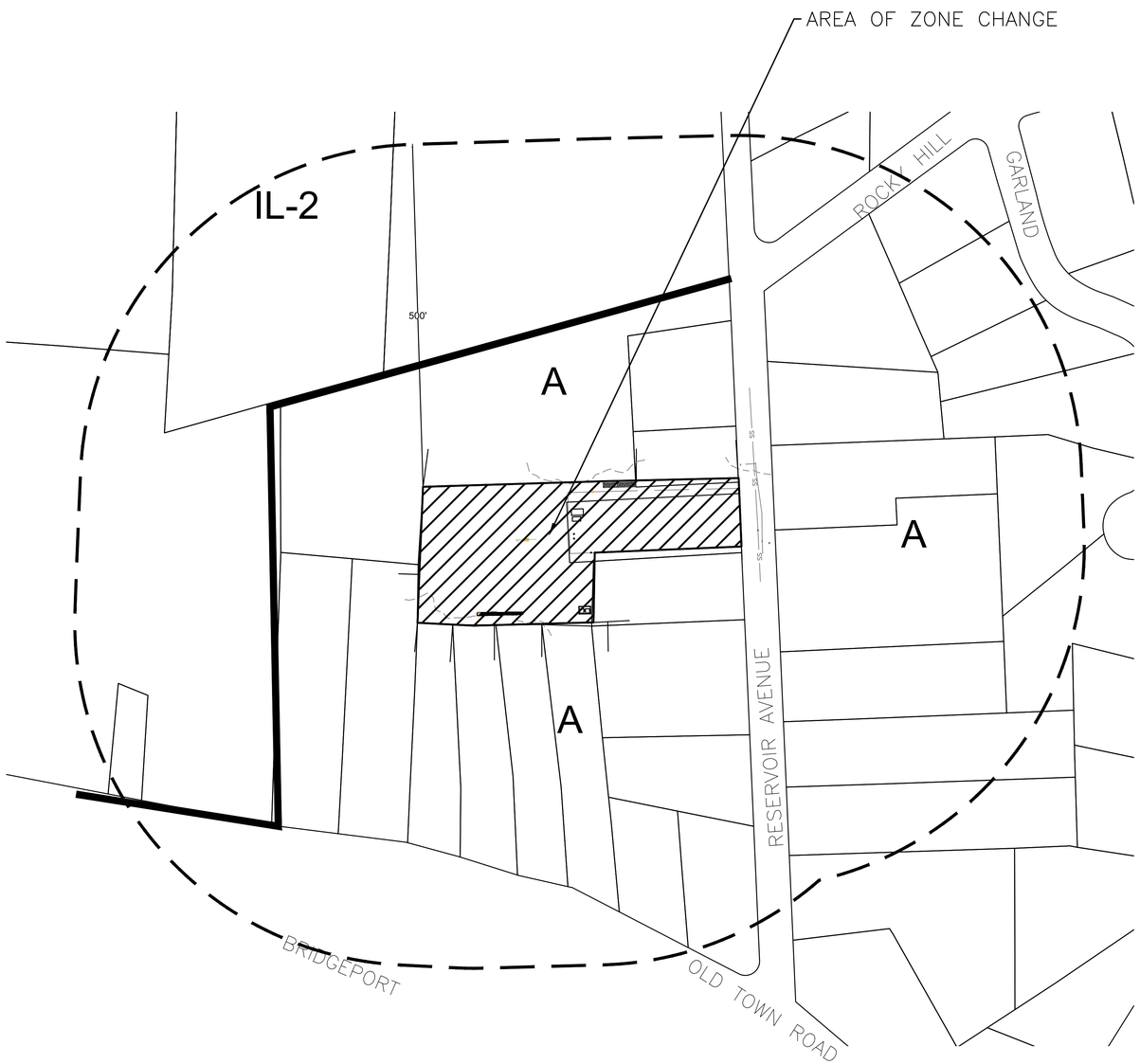
THENCE N 02°05'03" E A DISTANCE OF 70.62'

THENCE N 02°25'43" E A DISTANCE OF 127.93'

THENCE N 88°13'33" E A DISTANCE OF 264.22'

THENCE N 88°39'03" E A DISTANCE OF 196.45' TO THE POINT AND PLACE OF BEGINNING

HAVING AN AREA OF 73492.3 SQUARE FEET, 1.687 ACRES



PERMIT SET – NOT FOR CONSTRUCTION

J. EDWARDS & ASSOCIATES LLC
ENGINEERING • SURVEYING • SITE PLANNING

227 Stepney Road Easton, CT 06612
Phone:203.268.4205 Fax: 203.268.5604
www.jedwardsassoc.com

2105 & 2125 RESERVOIR AVENUE
TRUMBULL, CONNECTICUT
PREPARED FOR
2105-2125 RESERVOIR AVE LLC

REVISIONS

#	DATE	DESCRIPTION
1	6-20-25	CLIENT

DATE: 10-31-24
PROJECT #: 3021
DRAWING FILE:
DRAWN BY: NDC
SCALE: SCALE: 1"=100

TITLE

ZONE BOUNDARY CHANGE MAP

SHEET NUMBER

2.1

FILE NO. ----

September 15, 2025

Mr. Fred Garrity Jr., Chairman
Planning and Zoning Commission
Town of Trumbull
Trumbull Town Hall
5866 Main Street 2nd Floor
Trumbull, Connecticut 06611

Re: **Zoning Text Amendment: 2105-2125 Reservoir Avenue LLC Zone Change File #25-19**

Dear Mr. Garrity,

The Connecticut Metropolitan Council of Governments (MetroCOG) is in receipt of the above referenced referral relating to the revision of 2105-2125 Reservoir Avenue LLC Zone Change File #25-19.

The proposed text amendment establishes the metes and bounds for a zone change at 2105 and 2125 Reservoir Avenue from their current "Zone A."

MetroCOG's review of the proposed text amendment found that it is **not** regionally significant.

If you have any questions, please do not hesitate to contact me at 203-366-5405.

Sincerely,

Matt Fulda
Executive Director

cc: Mr. Robert Librandi, Planning Director, Town of Trumbull

Ms. Linda Finger, Planning & Zoning, Town of Trumbull

Planning and Zoning
Department
Telephone (203) 452-5044
Fax (203) 452-5169

Town of Trumbull
CONNECTICUT

Town Hall
5866 Main Street
Trumbull, Connecticut 06611

PLANNING AND ZONING DEPARTMENT

APPLICATION FOR SPECIAL PERMIT OR SITE PLAN APPROVAL

RECEIVED
JUL 10 2025
By PLANNING & ZONING

☒ **SPECIAL PERMIT**

☐ **SITE PLAN REVIEW**

ZONE:

☐ **Commercial Zone B-C, B-C LH, TH Node, MDD**

☐ **Industrial Zone I-L, I-L2, I-L3**

☐ **Residential Zone A, AA, AAA**

☒ **Overlay Zone** Reservoir Apartment District

Location of Property: 2105-2125 Reservoir Avenue

Assessor's Map No.: G Parcel No.: 11 Lot No.: 70 & 97

Trumbull Land Records: Volume: 1918 Page: 878 & 924

Applicant: 2105-2125 Reservoir Ave LLC

Address of Applicant: 20 Virginia Drive, Easton, CT 06612

Telephone Number: Day 203-610-1545 Evening

Email Address: [redacted]

Owner of Record: 2105-2125 Reservoir Ave LLC

Address of Owner of Record: Same as above

Telephone Number: Email

Party to be notified: Attorney Stephen Bellis

Address of Attorney or Agent: The Pellegrino Law Firm, 475 Whitney Ave., New Haven, CT 06511

Telephone Number: 203-787-2225 Email: [redacted]

Site Engineer: Jason Edwards

Address of Engineering Company: 227 Stepney Road, Easton, CT 06612

Telephone Number: 203-268-4205 x102 Email: [redacted]

Relevant Article(s) and Section(s) of the Regulations: (i.e. Art II, Sec 2.8)

Reservoir Apartment District Overlay Zone Special Permit 2.8.4

Description of the proposed request, including specific use to be conducted:

Change the zone from Zone A in order to construct an apartment building with 48 units.

Is the property within 500 feet of another municipality?

☒ YES ☐ NO

Does this proposal involve a structure that was built before 1940?

☐ YES ☒ NO

Does this proposal require the approval of the Inland Wetlands Agency?

☐ YES ☒ NO

Are there any deed restrictions on this property that may affect this application?

☐ YES ☒ NO

Has a previous application been filed for this property?

☐ YES ☒ NO

If yes, when? _____ Attach a copy of decision letter.

Project is to be started on Fall 2025 Completed on 2 years

List of Federal and State permits required and their status:

Certification

I/We certify that all of the above information and statements contained in any documentation submitted with the application are true to the best of my/our knowledge.

I/We fully understand that the Planning and Zoning Commission reserves the right to revoke any permit should the information contained herein not be true or that the information requested by the application has not been fully disclosed.

Signature of Owner

Signature of Applicant (if not property owner)

5/21/25

Date

Date

NOTICE: By signing this application, owner and applicant consent to site inspections by Town Staff and/or Commissioners.

A FEE IN ACCORDANCE WITH APPROVED FEE SCHEDULE MUST ACCOMPANY THIS APPLICATION. Make check payable to TOWN OF TRUMBULL.

FOR OFFICE USE ONLY

Date Application and Fee Received:_____ By:_____

Date of Public Hearing:_____ Date Action Taken:_____

List of Abutters Submitted:_____

Revised 2/25/2020

2105 RESERVOIR AVENUE

Location	2105 RESERVOIR AVENUE	**MBLU**	G/11 / 00070/ 000/
ACT NUMBER	01161400	**Owner**	2105-2125 RESERVOIR AVE LLC
Assessment	$223,230	**Appraisal**	$318,900
PID	6401	**Building Count**	1
Fire District	T	**Assessing District**	

Current Value

Appraisal					
Valuation Year	**Building**	**Extra Features**	**Outbuildings**	**Land**	**Total**
2024	$133,300	$19,300	$0	$166,300	$318,900
Assessment					
Valuation Year	**Building**	**Extra Features**	**Outbuildings**	**Land**	**Total**
2024	$93,310	$13,510	$0	$116,410	$223,230

Owner of Record

Owner	2105-2125 RESERVOIR AVE LLC
Co-Owner	
Address	20 VIRGINIA DR EASTON, CT 06612

Sale Price	$425,000
Book & Page	1918/0878
Sale Date	11/07/2023
Instrument	00

Ownership History

Ownership History				
Owner	**Sale Price**	**Book & Page**	**Instrument**	**Sale Date**
2105-2125 RESERVOIR AVE LLC	$425,000	1918/0878	00	11/07/2023
ANN M LEONE REV TR	$1	1889/0294	01	05/02/2022
LEONE ANN	$0	0861/0332	P	03/10/1995

Building Information

Building 1 : Section 1

Year Built:	1986
Living Area:	1,456

Replacement Cost:	$173,059
Building Percent Good:	77
Replacement Cost Less Depreciation:	$133,300

Building Attributes

Field	Description
Style:	Ranch
Model	Residential
Grade:	C
Stories:	1 Story
Occupancy	1
Exterior Wall 1	Vinyl Siding
Exterior Wall 2	
Roof Structure:	Gable
Roof Cover	Asph/F Gls
Interior Wall 1	Drywall
Interior Wall 2	
Floor Covering	Carpet
Alt. Floor Cover	
Heat Fuel	Gas
Heat Type:	Hot Water
AC Type:	Central
Total Bedrooms:	4 Bedrooms
Total Bthrms:	2 Full Baths
Total Half Baths:	0
Total Xtra Fixtrs:	
Total Rooms:	6 Rooms
Bath Style:	Average
Kitchen Style:	Average
Total Kitchens	1
Total Elec Meters	1
Num Park	
Fireplaces	
Fndtn Cndtn	
Basement	

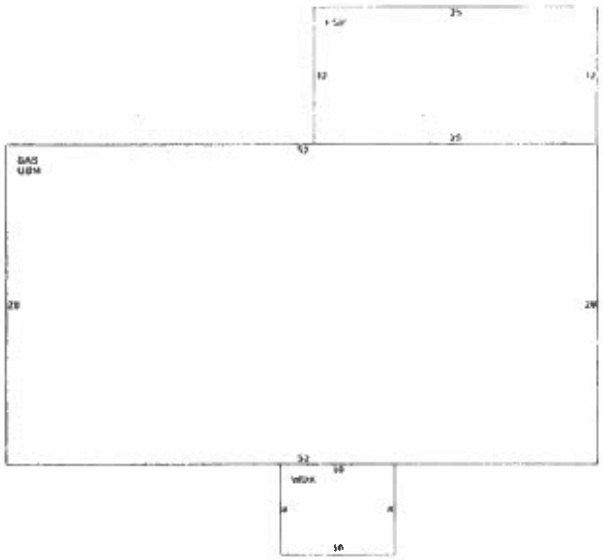
Building Photo



G11-70 04/29/2015

(https://images.vgsi.com/photos2/TrumbullCTPhotos/\00\02\44\47.JPG)

Building Layout



(ParcelSketch.ashx?pid=6401&bid=6401)

Building Sub-Areas (sq ft) Legend

Code	Description	Gross Area	Living Area
BAS	First Floor	1,456	1,456
FSP	Screen Porch	300	0
UBM	Unfinished Basement	1,456	0
WDK	Wood Deck	80	0
		3,292	1,456

Extra Features

Extra Features Legend

Code	Description	Size	Bldg #
FPL	Fireplace	1.00 Units	1
BGR	Gar Bsmt	2.00 Units	1

Land

Land Use

Use Code	101
Description	Single Family Res
Zone	A
Neighborhood	600
Category	No

Land Line Valuation

Size (Acres)	0.5
Frontage	
Depth	

Outbuildings

Outbuildings	Legend
No Data for Outbuildings	

Valuation History

Appraisal

Valuation Year	Building	Extra Features	Outbuildings	Land	Total
2023	$133,300	$19,300	$0	$166,300	$318,900
2022	$133,300	$19,300	$0	$166,300	$318,900
2021	$133,300	$19,300	$0	$166,300	$318,900

Assessment

Valuation Year	Building	Extra Features	Outbuildings	Land	Total
2023	$93,310	$13,510	$0	$116,410	$223,230
2022	$93,310	$13,510	$0	$116,410	$223,230
2021	$93,310	$13,510	$0	$116,410	$223,230

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2125 RESERVOIR AVENUE

Location	2125 RESERVOIR AVENUE	**MBLU**	G/11 / 00097/ 000/
ACT NUMBER	01349700	**Owner**	2105-2125 RESERVOIR AVE LLC
Assessment	$130,200	**Appraisal**	$186,000
PID	100709	**Building Count**	1
Fire District	T	**Assessing District**	

Current Value

Appraisal					
Valuation Year	**Building**	**Extra Features**	**Outbuildings**	**Land**	**Total**
2024	$0	$0	$0	$186,000	$186,000

Assessment					
Valuation Year	**Building**	**Extra Features**	**Outbuildings**	**Land**	**Total**
2024	$0	$0	$0	$130,200	$130,200

Owner of Record

Owner	2105-2125 RESERVOIR AVE LLC	**Sale Price**	$185,000
Co-Owner		**Book & Page**	1918/0924
Address	20 VIRGINIA DRIVE	**Sale Date**	11/07/2023
	EASTON, CT 06612	**Instrument**	00

Ownership History

Ownership History				
Owner	**Sale Price**	**Book & Page**	**Instrument**	**Sale Date**
2105-2125 RESERVOIR AVE LLC	$185,000	1918/0924	00	11/07/2023
LEONE ANN M TR & ANN M LEONE REV TRST	$1	1889/0294	01	05/02/2022
LEONE ANN	$0	0861/0332	P	03/10/1995

Building Information

Building 1 : Section 1

Year Built:

Living Area:	0
Replacement Cost:	$0
Building Percent Good:	
Replacement Cost Less Depreciation:	$0

Building Attributes

Field	Description
Style:	Vacant Land
Model	
Grade:	
Stories:	
Occupancy	
Exterior Wall 1	
Exterior Wall 2	
Roof Structure:	
Roof Cover	
Interior Wall 1	
Interior Wall 2	
Floor Covering	
Alt. Floor Cover	
Heat Fuel	
Heat Type:	
AC Type:	
Total Bedrooms:	
Total Bthrms:	
Total Half Baths:	
Total Xtra Fixtrs:	
Total Rooms:	
Bath Style:	
Kitchen Style:	
Total Kitchens	
Total Elec Meters	
Num Park	
Fireplaces	
Fndtn Cndtn	
Basement	

Building Photo



G11-97 04/29/2015

(https://images.vgsi.com/photos2/TrumbullCTPhotos/\00\02\44\72.JPG)

Building Layout

(ParcelSketch.ashx?pid=100709&bid=13185)

Building Sub-Areas (sq ft) Legend

No Data for Building Sub-Areas

Extra Features

Extra Features Legend

No Data for Extra Features

Land

Land Use

Use Code	100
Description	Res Vacant Lnd
Zone	A
Neighborhood	600
Category	No

Land Line Valuation

Size (Acres)	1.19
Frontage	
Depth	

Outbuildings

Outbuildings	Legend
No Data for Outbuildings	

Valuation History

Appraisal

Valuation Year	Building	Extra Features	Outbuildings	Land	Total
2023	$0	$0	$0	$186,000	$186,000
2022	$0	$0	$0	$186,000	$186,000
2021	$0	$0	$0	$186,000	$186,000

Assessment

Valuation Year	Building	Extra Features	Outbuildings	Land	Total
2023	$0	$0	$0	$130,200	$130,200
2022	$0	$0	$0	$130,200	$130,200
2021	$0	$0	$0	$130,200	$130,200

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2411

VOL 1918 PAGE 0924

John R. Bryk
Attorney At Law
1000 Lafayette Bvd.-7th Floor
Bridgeport, CT 06604

TRUSTEES' DEED
STATUTORY FORM

Doc ID: 005838770003 Type: LAN
Book 1918 Page 924 - 926
File# 2411

TO ALL PERSONS TO WHOM THESE PRESENTS SHALL COME, KNOW YE THAT **PETER R. LEONE, SUCCESSOR TRUSTEE OF THE ANN M. LEONE REVOCABLE TRUST INDENTURE DATED MARCH 3, 2022** of **9 Feldspar Ave. Beacon Falls, CT 06403** for consideration of **One Hundred Eighty Thousand Dollars ($185,000.00)**, grants to **2105-2125 Reservoir Ave LLC a Connecticut Limited Liability Company with a principal place of business at 20 Virginia Dr, Easton, CT 06612,** with TRUSTEE COVENANTS all that certain real property known as **2125 RESERVOIR AVENUE, TRUMBULL, CT 06611** being more particularly described in *Schedule A* attached hereto and made a part hereof.

Said Premises are conveyed subject to:

1. Any and all provisions of any municipal, ordinance or regulation or public or private law with special reference to the provisions of any zoning regulations and regulations governing the said Premises.

2. Real property taxes on the current Grand List and any municipal liens or assessments becoming due and payable on or after the delivery of this Deed.

3. Such additional encumbrances, if any, as more particularly set forth in Schedule A attached hereto.

In all references herein to any parties, persons, entities or corporations, the use of any particular gender or the plural or singular number is intended to include the appropriate gender or number as the text of the within instrument may require.

1387.50 Conveyance Tax Received
Mary Markham
State Town Clerk of Trumbull Town
462.50

I hereby certify that this is a true copy of the original document received for record in the office of Town Clerk in the Town of Trumbull on 11/7/23 In Vol 1918, Pg 924
Attest: _____ Town Clerk

VOL 1918 PAGE 0925

IN WITNESS WHEREOF, the Grantor has caused these presents to be executed on this 12 September 2023.

Peter R. Leone successor Trustee

PETER R. LEONE, SUCCESSOR TRUSTEE OF THE ANN M. LEONE REVOCABLE TRUST INDENTURE DATED MARCH 3, 2022
Grantor

Signed, sealed and delivered in the presence of or attested by:

Witness: _____
Glenda Lee Perez, Esq.,

Witness: _____
Jennifer Pereira

STATE OF CONNECTICUT

ss. Bridgeport

COUNTY OF Fairfield

Personally appeared **PETER R. LEONE, SUCCESSOR TRUSTEE OF THE ANN M. LEONE REVOCABLE TRUST INDENTURE DATED MARCH 3, 2022**, signer and sealer of the foregoing instrument, known to me (or satisfactorily proven) to be the person whose name is subscribed to the within instrument and acknowledged that he/she executed the same for the purposes therein contained in the capacity therein stated, before me, on this 12 September 2023

Glenda Lee Perez, Esq.
Commissioner of the Superior Court
My Commission is permanent: Juris Number 428931

_____
Glenda Lee Perez, Esq.,
Commissioner of the Superior Court

VOL 1918 PAGE 0926

Schedule A

ALL THAT CERTAIN piece or parcel of land, together with the buildings and improvements thereon, situated in the Town of Trumbull, County of Fairfield and State of Connecticut, known and designated as Lot 701 on a certain map entitled, "Property Line Change and Subdivision Survey prepared for Ann Leone 2095 & 2105 Reservoir Avenue Trumbull, Connecticut, Scale 1" = 40' Date" 6/18/04 and on file in the office of the Trumbull Town Clerk as Map No. 3208, and which is bounded and described as follows:

NORTHERLY:	by Lot 71 and 74 as shown on said map, 459.66 feet, more or less;
EASTERLY:	by Reservoir Avenue, so-called;
NORTHERLY AGAIN:	by Lot 70, as shown on said map, 250.335 feet, more or less;
EASTERLY AGAIN:	by Lot 70, as shown on said map, 89.041 feet;
NORTHERLY AGAIN:	by Lot 70, as shown on said map, 36.00 feet;
EASTERLY AGAIN:	by Lot 69, as shown on said map, 101.84 feet;
SOUTHERLY:	by Lot 11, 12, 13 and 14, each in part, as shown on said map, a total distance of 264.88 feet, more or less; and
WESTERLY:	by Lot 10 and 72, as shown on said map, 198.55 feet, more or less.

Said premises being commonly known as 2125 Reservoir Avenue, Trumbull, Connceticut.

Subject To

1. Variance from the Town of Trumbull Zoning Board of Appeals dated April 26, 2005 and recorded May 3, 2005 in Volume 1335 at Page 890 of the Trumbull Land Records.

2. Trumbull Center Fire District taxes as maybe hereinafter due and payable.

3. Setback lines, overhead wires servicing the subject premises crossing Lot 69, notes and facts as shown on Map No. 3208 on file in the Office of the Trumbull Town Clerk.

TOWN CLERK OFFICE, TRUMBULL, CT
RECEIVED FOR RECORD 11/7/23
AT 11:45A M. ATTEST Sandra M. Malinski
TOWN CLERK

2404 VOL 1918 PAGE 0878

John R. Bryk
Attorney At Law
1000 Lafayette Blvd.-7th Floor
Bridgeport, CT 06604

TRUSTEES' DEED
STATUTORY FORM

Doc ID: 005838700003 Type: LAN
Book 1918 Page 878 - 880
File# 2404

TO ALL PERSONS TO WHOM THESE PRESENTS SHALL COME, KNOW YE THAT **PETER R. LEONE, SUCCESSOR TRUSTEE OF THE ANN M. LEONE REVOCABLE TRUST INDENTURE DATED MARCH 3, 2022** of **2105 RESERVOIR AVENUE, TRUMBULL, CT 06611,** for consideration of **Four Hundred Twenty-five Thousand Dollars ($425,000.00)**, grants to **2105-2125 Reservoir Ave LLC a Connecticut Limited Liability Company with a principal place of business at 20 Virginia Dr, Easton, CT 06612,** with TRUSTEE COVENANTS all that certain real property known as **2105 RESERVOIR AVENUE, TRUMBULL, CT 06611,** being more particularly described in *Schedule A* attached hereto and made a part hereof.

Said Premises are conveyed subject to:

1. Any and all provisions of any municipal, ordinance or regulation or public or private law with special reference to the provisions of any zoning regulations and regulations governing the said Premises.

2. Real property taxes on the current Grand List and any municipal liens or assessments becoming due and payable on or after the delivery of this Deed.

3. Such additional encumbrances, if any, as more particularly set forth in Schedule A attached hereto.

In all references herein to any parties, persons, entities or corporations, the use of any particular gender or the plural or singular number is intended to include the appropriate gender or number as the text of the within instrument may require.

3187.50 Conveyance Tax Received 1162.50
Mary Markham
State Town Clerk of Trumbull Town

I hereby certify that this is a true copy of the original document received for record in the office of Town Clerk in the Town of Trumbull on 11/2/23 In Vol 1918, Pg 878
Attest: _____ Town Clerk

VOL 1918 PAGE 0879

IN WITNESS WHEREOF, the Grantor has caused these presents to be executed on this 13 September 2023.

Successor Trustee

PETER R. LEONE, SUCCESSOR TRUSTEE OF THE ANN M. LEONE REVOCABLE TRUST INDENTURE DATED MARCH 3, 2022
Grantor

Signed, sealed and delivered in the presence of or attested by:

Witness: _____
Glenda Lee Perez, Esq.,

Witness: _____
Jennifer Pereira

STATE OF CONNECTICUT

ss. Bridgeport

COUNTY OF Fairfield

Personally appeared **PETER R. LEONE, SUCCESSOR TRUSTEE OF THE ANN M. LEONE REVOCABLE TRUST INDENTURE DATED MARCH 3, 2022** signer and sealer of the foregoing instrument, known to me (or satisfactorily proven) to be the person whose name is subscribed to the within instrument and acknowledged that he/she executed the same for the purposes therein contained in the capacity therein stated, before me, on this 13 September 2023

Glenda Lee Perez, Esq.
Commissioner of the Superior Court
My Commission is permanent: Juris Number 428931

_____
Glenda Lee Perez, Esq.,
Commissioner of the Superior Court

Subject Failure Notice

From MAILER-DAEMON@aol.com <MAILER-DAEMON@aol.com>

To: <juanayala704@aol.com>

Date Today at 1:21 AM

RECEIVED
SEP 16 2025
By Abigail Farrell
PLANNING & ZONING

Sorry, we were unable to deliver your message to the following address.

<lfinquer@trumbull-ct.gov>:
550: permanent failure for one or more recipients (lfinquer@trumbull-ct.gov:550 5.4.1 Recipient address rejected: Access denied. For more information see https://aka.ms...)

---------- Forwarded message ----------

To whom it may concern: I Juan Ayala resident of 2160 Reservoir avenue want to express my objection to the proposed building of 48 units and house on the 2105 & 2125 parcel on Reservoir ave. Reservoir ave is a small narrow road that is already burdened with a lot of vehicular traffic generated from all the current residents in the area. We have The Woodside down the road a very large

development with many residents. We also have the Bridges memory

We also have the Bridges memory care facility on Reservoir with probably a lot of residents and staff using the road. Add to that Mayfair ECF with many residents and staff that care for the residents. In addition we have The Hawthorne another housing development. Another facility on Reservoir is Middlebrook Farms with many residents and more staff working at the mentioned facility. In addition to all the residents and workers in those facilities we have to consider the existing residents from near by Rocky hill road. Also Near by on Lindeman drive we have more facilities, schools and housing apartments with many more workers and residents that flow towards reservoir ave. All those residents and workers are already putting a lot of stress on the roads and resources of the town. There needs to be a limit to the amount of development that this area should have. Reservoir ave does not need more traffic circulating. Please take into consideration the amount of resources that the thousands of residents and workers on the area are using on a daily basis.

Thank you.

JUAN D AYALA

Zelipha and Edmund Gitari,
2095 Reservoir Avenue,
Trumbull, CT 06611
December 17, 2025

Trumbull Planning and Zoning Commission
5866 Main Street
Trumbull, CT 06611

Attention: Chairman of the Commission

Re: Text Amendment and Zone Change, 2105-2125 Reservoir Avenue

We are residents of 2095 Reservoir Avenue, an adjacent property to the proposed development. We humbly submit our objections to the approvals of agenda items 1, 2 and 3 of the Planning and Zoning Commission public hearing of December 17, 2025 on the following grounds.

1. **Objection as to minimum parcel size for Reservoir Apartment District (RAD) Overlay Zone.**

   The RAD text amendment suggests the minimum parcel size for apartments be no less than 1 acre and a maximum of 50 dwelling units. Within a radius of 250 feet of the proposed development, there are at least 3 other individual Zone A parcels that meet the minimum parcel size (2.8 acres at 2155 Reservoir Avenue and 1.51 acres at 2090 Reservoir Avenue and 1.33 acres at 1990 Reservoir Avenue). Approving the requested text amendment would allow high density development of similar size in a relatively small area which would be a significant strain on resources.

2. **Inconsistency with the Plan of Conservation & Development (POCD)**

   As per Trumbull's Plan of Conservation & Development of 2014, it is preferred that Planned Affordabe Housing Developments are Located at least 1 mile from another multi-family, age restricted or affordable housing development. The proposed development is approximately 0.5miles from the River Valley Retirement Community which is violation of this provision.

3. **Adverse impacts on health, safety, welfare, or public services**

   - The current school bus servicing the surrounding neighbourhood picks up our children at 6.:40am and gets to school at 7:25am. A distance of less than 3 miles is currently taking the young kids over 40 minutes to navigate early in the morning due to the density of population. The school bus is currently almost filled to capacity with around 60 students each way. The proposed development is likely to worsen the capacity problem on the school bus route and potentially increase commuting.

- There are currently 2 other densely populated housing estates (Woodside Trumbull, 199 units and Ten Trumbull, 202 units) within a radius of less than half a mile of the proposed development which will be another densely populated housing unit in very close proximity.
- Even though our home is not designated to be within or in close proximity to a FEMA Special Flood Hazard Zone, we have experienced flooding in our basement since moving into our home and have had to spend a considerable amount to waterproof the basement due to the high water table in the area. We feel the development of the proposed size will lead to a deterioration of the conditions causing significant damages/ cost to the existing neighboring properties.

4. **Spot zoning**

   Granting the application will be out of harmony with the surrounding zoning or land uses for this developer without necessarily serving the public interest especially considering the area rezoned is small (1.69 acres) compared to the two pre-existing high density housing units aforementioned. We submit that the proposed use is out of character with surrounding uses or inconsistent with the comprehensive plan.

We respectfully submit this letter as our objection to the proposed development on the above grounds.

Sincerely,

Zelipha and Edmund Gitari

2105 & 2125 RESERVOIR AVENUE
SITE IMPROVEMENTS
IN
TRUMBULL, CONNECTICUT



500' RADIUS MAP
1"=100'

LIST OF DRAWINGS:

1.0	TITLE SHEET
1.1	EXISTING CONDITIONS SURVEY
2.0	DEMOLITION PLAN
2.1	SITE PLAN
2.2	UNDERGROUND UTILITIES PLAN
2.3	EROSION CONTROL PLAN
2.4	SCHEMATIC SITE PLAN
3.1–3.5	DETAILS
1/1	PLANTING PLAN (BY OTHERS)
1/1	SITE LIGHTING PLAN (BY OTHERS)

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STATE OF CONNECTICUT · JASON EDWARDS · LICENSED LAND SURVEYOR

2105 & 2125 RESERVOIR AVENUE
TRUMBULL, CONNECTICUT
PREPARED FOR
2105-2125 RESERVOIR AVE LLC

REVISIONS

#	DATE	DESCRIPTION
1	6-20-25	CLIENT
2	12-11-25	CLIENT
3	12-16-25	CLIENT

DATE: 10-31-24
PROJECT #: 3021
DRAWING FILE:
DRAWN BY: NDC
SCALE:

TITLE

TITLE SHEET

SHEET NUMBER

1.0

FILE NO. ----

NOTES:

1. THIS SURVEY (OR MAP) HAS BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20–300b–1 THRU 20–300b–20 AND THE "STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON SEPTEMBER 26, 1996. IT IS A IMPROVEMENT LOCATION SURVEY BASED ON A DEPENDENT RESURVEY CONFORMING TO HORIZONTAL ACCURACY CLASS A–2 AND VERTICAL ACCURACY CLASS V–2 AND INTENDED TO BE USED FOR REGULATORY APPROVAL.

2. REFERENCE MAP ENTITLED:
"PROPOSED SITE DEVELOPMENT PLAN, SITE PLAN, PREPARED FOR ANNE LEONE, FOR PROPERTY LOCATED AT 2095 & 2105 RESERVOIR ROAD, TRUMBULL, CONNECTICUT." SCALE 1"=40'.
DATED MAY 31, 2005. PREPARED BY PEREIRA ENGINEERING, LLC.

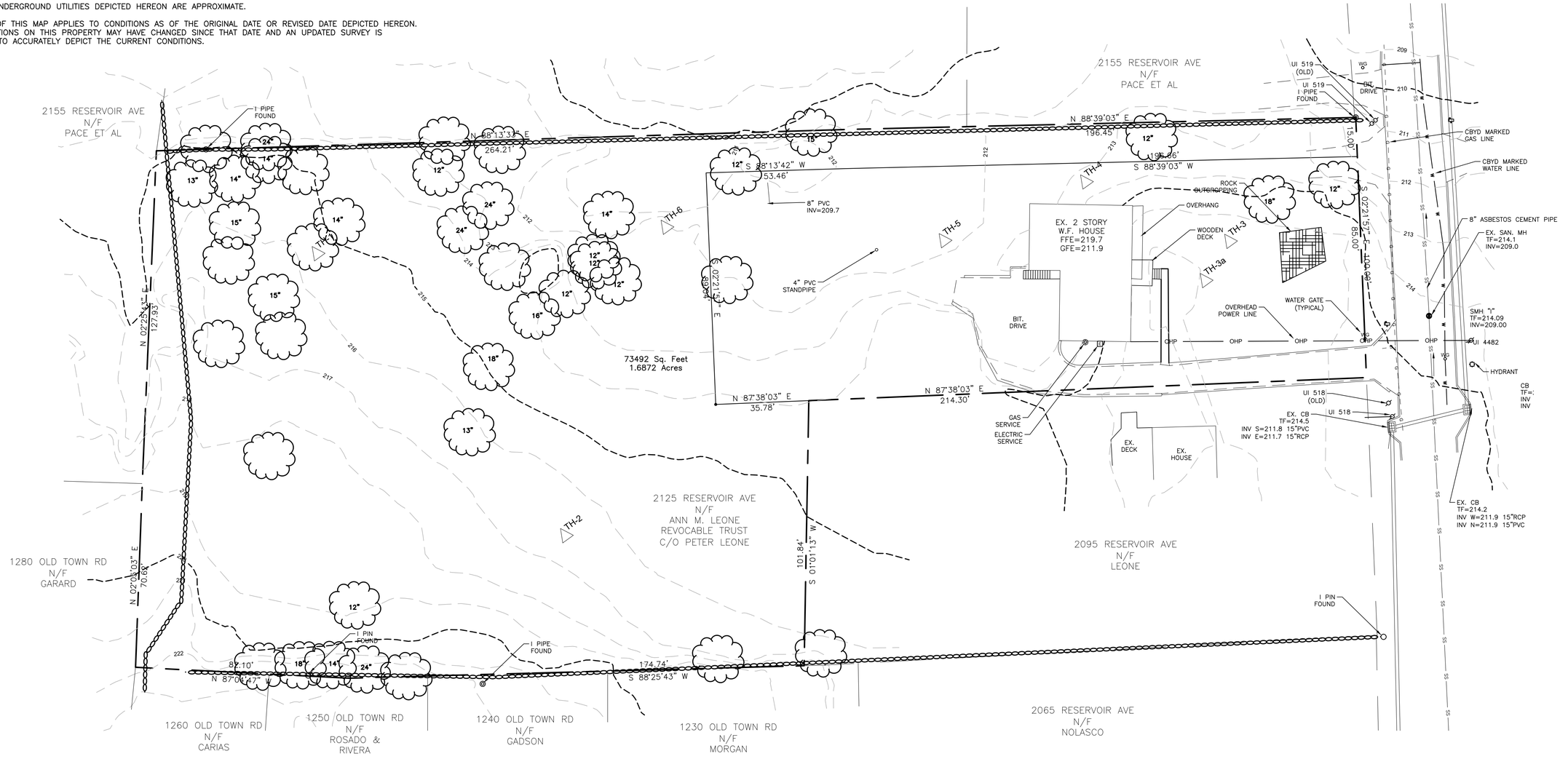
3. PLAN PREPARED FOR OWNER.

4. LOT CORNER MARKERS DEPICTED HEREON WERE FOUND AND/OR SET DURING COMPLETION OF THIS SURVEY. ALL CORNER MARKERS FOR THIS LOT ARE TO BE PLACED AS PART OF SUBDIVISION IMPROVEMENTS AND HAVE BEEN BONDED TO THE TOWN.

5. BEARINGS BASED ON NAD 83.

6. LOCATION OF UNDERGROUND UTILITIES DEPICTED HEREON ARE APPROXIMATE.

7. CERTIFICATION OF THIS MAP APPLIES TO CONDITIONS AS OF THE ORIGINAL DATE OR REVISED DATE DEPICTED HEREON. EXISTING CONDITIONS ON THIS PROPERTY MAY HAVE CHANGED SINCE THAT DATE AND AN UPDATED SURVEY IS RECOMMENDED TO ACCURATELY DEPICT THE CURRENT CONDITIONS.



IMPROVEMENT LOCATION SURVEY

2105 RESERVOIR ROAD
TRUMBULL, CONNECTICUT

0' 20' 40' 60'

SCALE 1"=20' JUNE 9, 2023

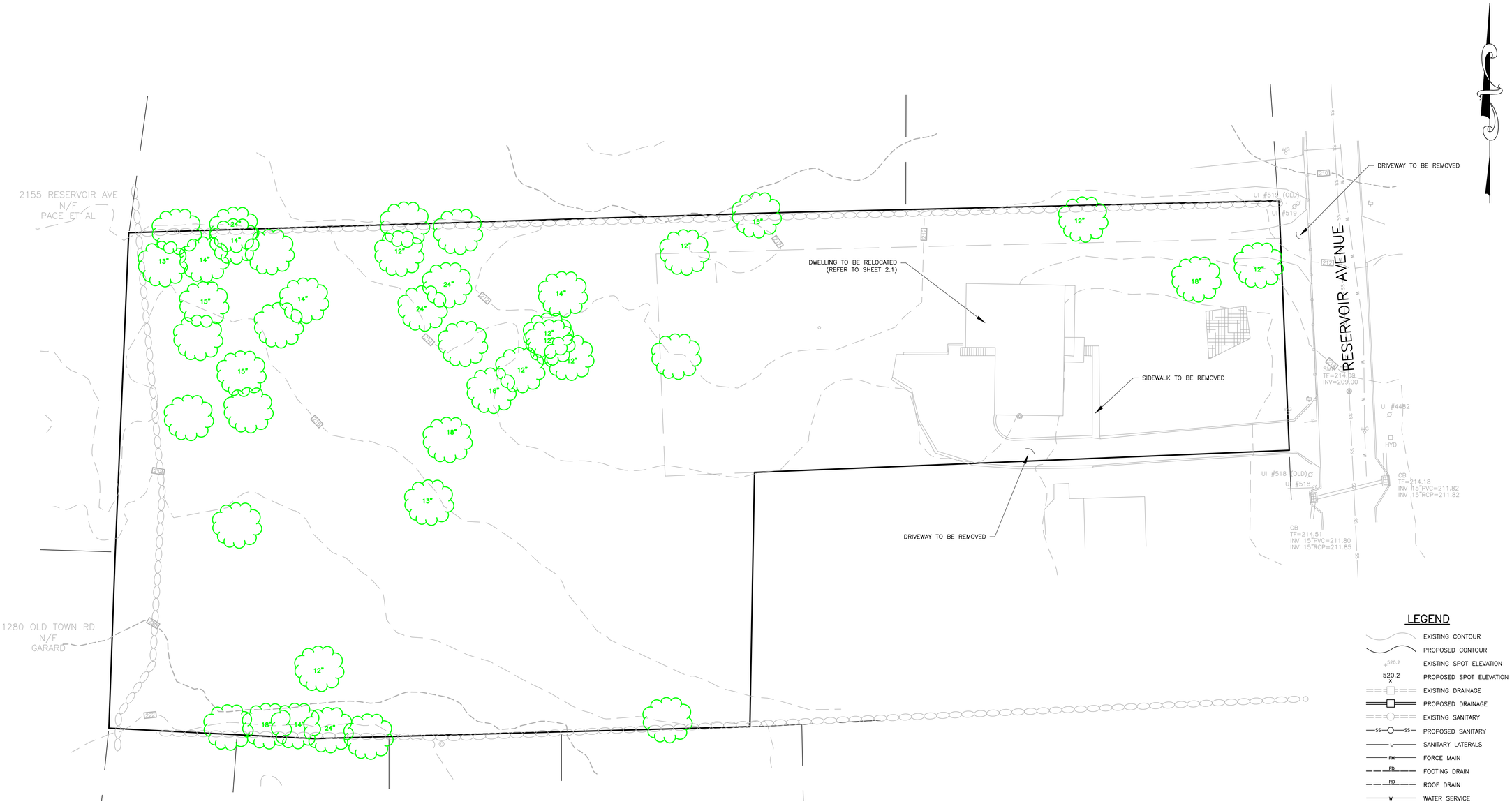
1.1

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.
THIS MAP IS NOT VALID UNLESS EMBOSSED WITH SEAL OR AFFIXED WITH THE LIVE STAMP OF SIGNATORY

J. EDWARDS & ASSOCIATES, LLC
Engineering and Surveying
227 Stepney Road
Easton, CT. 06612
(203) 268–4205
www.leassoc.com

JASON EDWARDS, L.S. No. 70308

CK'D: ___ __/__/__ FILE NO._____-__ ILS



LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- EXISTING DRAINAGE
- PROPOSED DRAINAGE
- EXISTING SANITARY
- PROPOSED SANITARY
- SANITARY LATERALS
- FORCE MAIN
- FOOTING DRAIN
- ROOF DRAIN
- WATER SERVICE
- GAS LINE
- CLEAN OUT TO GRADE
- INLAND WETLANDS WITH FLAG #
- OBSERVATION HOLE
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DRAWING FILE:
DRAWN BY: NDC
SCALE: SCALE: 1"=20'

TITLE

DEMOLITION PLAN

SHEET NUMBER

2.0

FILE NO. ----

ZONING DATA TABLE

UNDERLYING ZONE: RESIDENCE A

PROPOSED RESERVOIR APARTMENT DISTRICT OVERLAY ZONE	MINIMUM REQUIRED MAXIMUM ALLOWED	PROPOSED CONDITIONS	AS-BUILT CONDITIONS
Minimum Lot Area	1 Acres	1.68	
Maximum Density	50 Units	48 Units	
Setback From Front Line	10'	12'	
Setback From Side Property Lines	0	7'	
Setback From Rear Property Lines	0	42'	
Maximum Height For A Building Or Structure	45'	42'	
Maximum Building Lot Coverage	60%	28.4%	

PARKING ANALYSIS

APARTMENT COUNT- 48

NUMBER OF 1 BEDROOM UNITS= 34
NUMBER OF 2 BEDROOM UNITS= 14

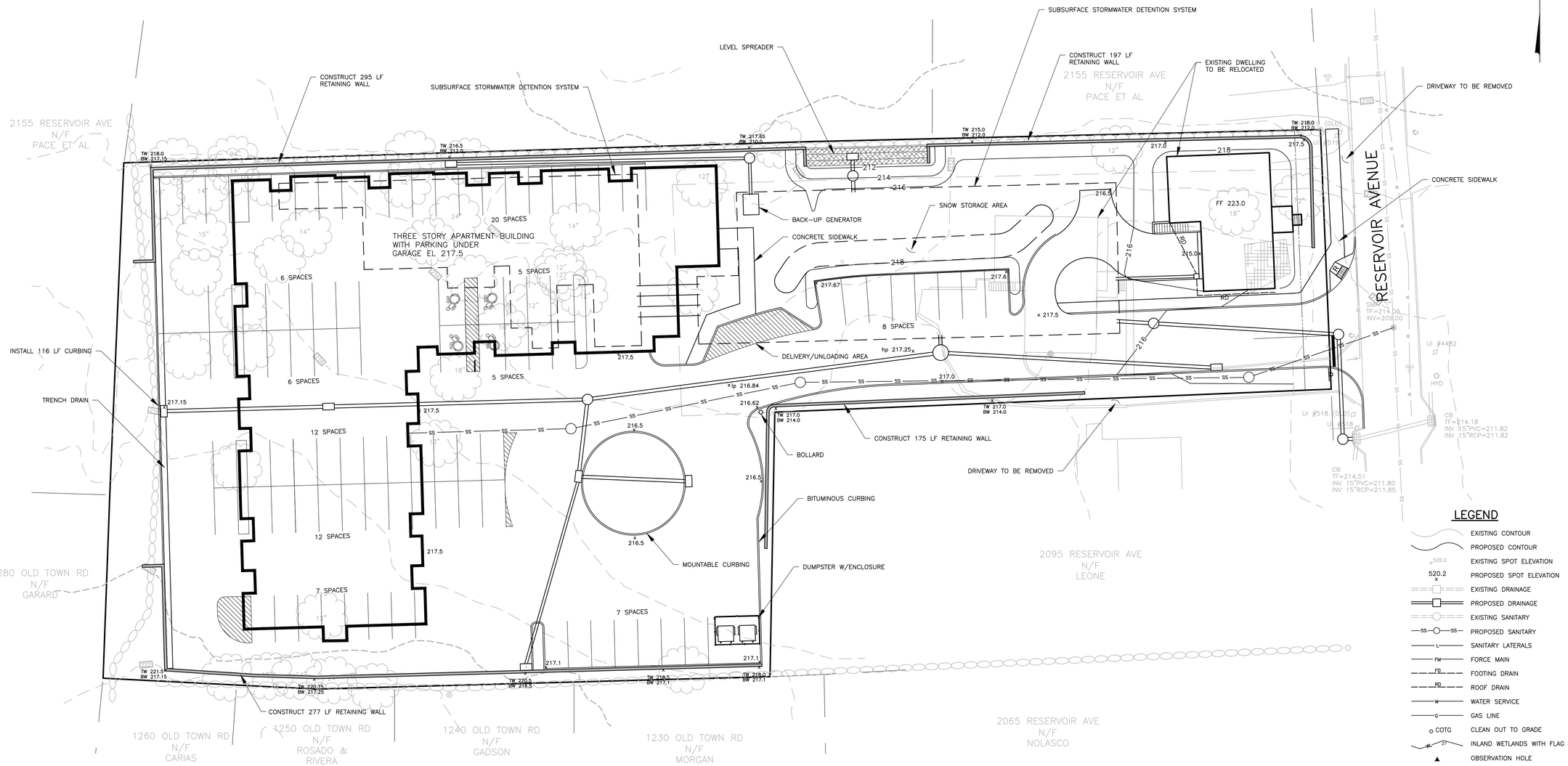
PARKING TO BE PROVIDED AT A RATE OF 1.25 SPACES PER ONE BEDROOM/STUDIO & 2.0 SPACES PER TWO BEDROOM

1 BEDROOM REQUIRES 34 X 1.25= 43 SPACES
2 BEDROOM REQUIRES 14 X 2= 28 SPACES
TOTAL SPACES REQUIRED= 71 SPACES

TOTAL PARKING SPACES PROVIDED UNDER BUILDING AND EXTERIOR SURFACE = 88

88 SPACES REQUIRES 4 HANDICAP SPACES TO BE PROVIDED.

SINGLE FAMILY RESIDENCE COUNT- 1
TWO PARKING SPACES PROVIDED IN GARAGE.



LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- EXISTING DRAINAGE
- PROPOSED DRAINAGE
- EXISTING SANITARY
- PROPOSED SANITARY
- SANITARY LATERALS
- FORCE MAIN
- FOOTING DRAIN
- ROOF DRAIN
- WATER SERVICE
- GAS LINE
- CLEAN OUT TO GRADE
- INLAND WETLANDS WITH FLAG #
- OBSERVATION HOLE
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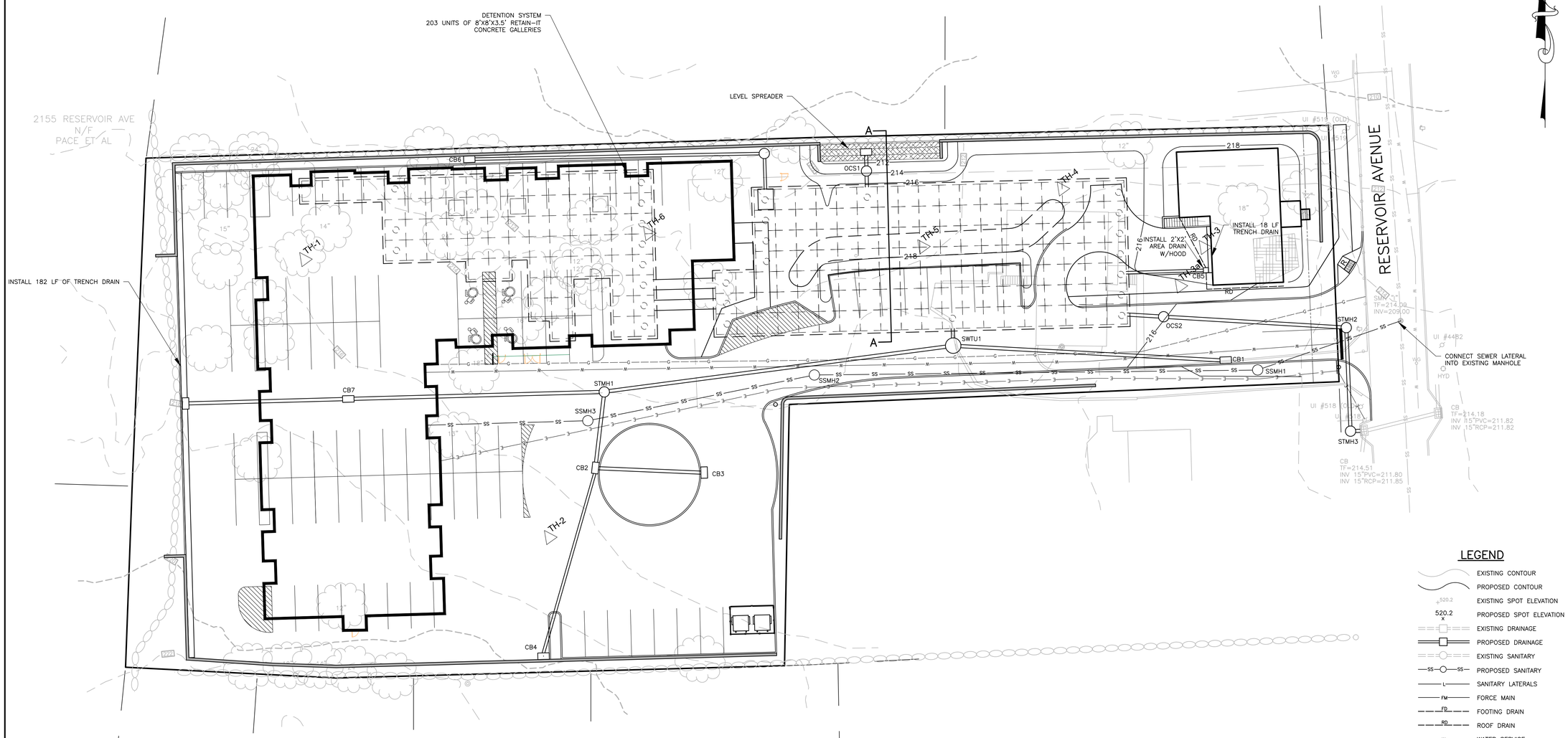
TITLE

SITE PLAN

SHEET NUMBER

2.1

FILE NO. ----



DRAINAGE STRUCTURES

ALL CB's ARE TYPE C UNLESS NOTED OTHERWISE

CB1 TF 215.09 15" INV 211.65 (W)	CB2 TF 216.0 12" INV 212.53 (S) 15" 212.28 (N+E)	CB3 TF 216.0 INV 212.5	CB4* TF 217.0 12" INV 214.0	CB5* TF 215.0 12" INV 212.0
STMH1 TF 217.0 15" INV 212.12 (S+E) 8" INV 212.7 (W)	STMH2 TF 214.21 12" INV 212.1	STMH3 TF 215.2 12" INV 211.9	STMH4 TF 217.0 12" INV 212.42	SWTU1 TF 217.25 INV 211.1
CB6* TF 216.0 12" INV 213.0	CB7** TF 217.0 12" INV 213.0			

* 2'X2' AREA DRAIN
** TYPE C-L

DRAINAGE PIPES

ALL PIPES ARE HDPE UNLESS NOTED OTHERWISE. PIPE LENGTHS ARE FROM CL TO CL OF STRUCTURES

FROM DET. SYS. TO SWTU1 SIZE: 15" SLOPE: 1.43% LENGTH: 7 LF	FROM SWTU1 TO CB1 SIZE: 15" SLOPE: 0.8% LENGTH: 106 LF	FROM SWTU1 TO STMH1 SIZE: 15" SLOPE: 0.74% LENGTH: 137 LF	FROM STMH1 TO CB2 SIZE: 15" SLOPE: 0.53% LENGTH: 30 LF	FROM CB2 TO CB4 SIZE: 12" SLOPE: 2.04% LENGTH: 72 LF
FROM CB2 TO CB3 SIZE: 15" SLOPE: 0.5% LENGTH: 44 LF	FROM STMH1 TO CB7 SIZE: 8" SLOPE: 0.88% LENGTH: 100 LF	FROM CB7 TO TRENCH DRAIN SIZE: 8" SLOPE: 1.58% LENGTH: 63 LF	FROM OCS2 TO STMH2 SIZE: 12" SLOPE: 0.5% LENGTH: 71 LF	FROM STMH2* TO STMH3 SIZE: 12" SLOPE: 0.5% LENGTH: 40 LF
FROM STMH3* TO EXIST. CB SIZE: 12" SLOPE: 0.5% LENGTH: 5 LF	FROM DET. SYS. TO STMH4 SIZE: 12" SLOPE: 10.1% LENGTH: 14 LF	FROM STMMH4 TO CB6 SIZE: 12" SLOPE: 0.5% LENGTH: 115 LF		

* 12" SCH-40 PVC

SANITARY STRUCTURES

SSMH1 TF 215.4 INV 209.3	SSMH2 TF 216.8 INV 210.17	SSMH3 TF 216.6 INV 210.62		

SANITARY PIPES

FROM EXIST. SMH"I" TO SSMH1 SIZE: 8" PVC SLOPE: 0.5% LENGTH: 30 LF	FROM SSMH1 TO SSMH2 SIZE: 8" PVC SLOPE: 0.5% LENGTH: 173 LF	FROM SSMH2 TO SSMH3 SIZE: 8" PVC SLOPE: 0.5% LENGTH: 90 LF	FROM SSMH3 TO BLDG SIZE: 8" PVC SLOPE: 2.0% MIN. LENGTH: 72 LF	

20 0 20 40

LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- 520.2 EXISTING SPOT ELEVATION
- 520.2 PROPOSED SPOT ELEVATION
- EXISTING DRAINAGE
- PROPOSED DRAINAGE
- EXISTING SANITARY
- SS PROPOSED SANITARY
- L SANITARY LATERALS
- FM FORCE MAIN
- FD FOOTING DRAIN
- RD ROOF DRAIN
- W WATER SERVICE
- G GAS LINE
- E ELECTRIC/CABLE SERVICE
- COTG CLEAN OUT TO GRADE
- WL 27 INLAND WETLANDS WITH FLAG #
- OBSERVATION HOLE
- PERCOLATION TEST
- GTD GRADE TO DRAIN
- SF SYNTHETIC FILTER BARRIER
- WATER BREAK
- LOD LIMIT OF DISTURBANCE
- FE FOUNDATION ENVELOPE
- BUILDING SETBACK LINE
- DE DRAINAGE EASEMENT
- GE GRADING EASEMENT
- SR SLOPE RIGHTS
- CE CONSERVATION EASEMENT
- ME MAINTENANCE EASEMENT

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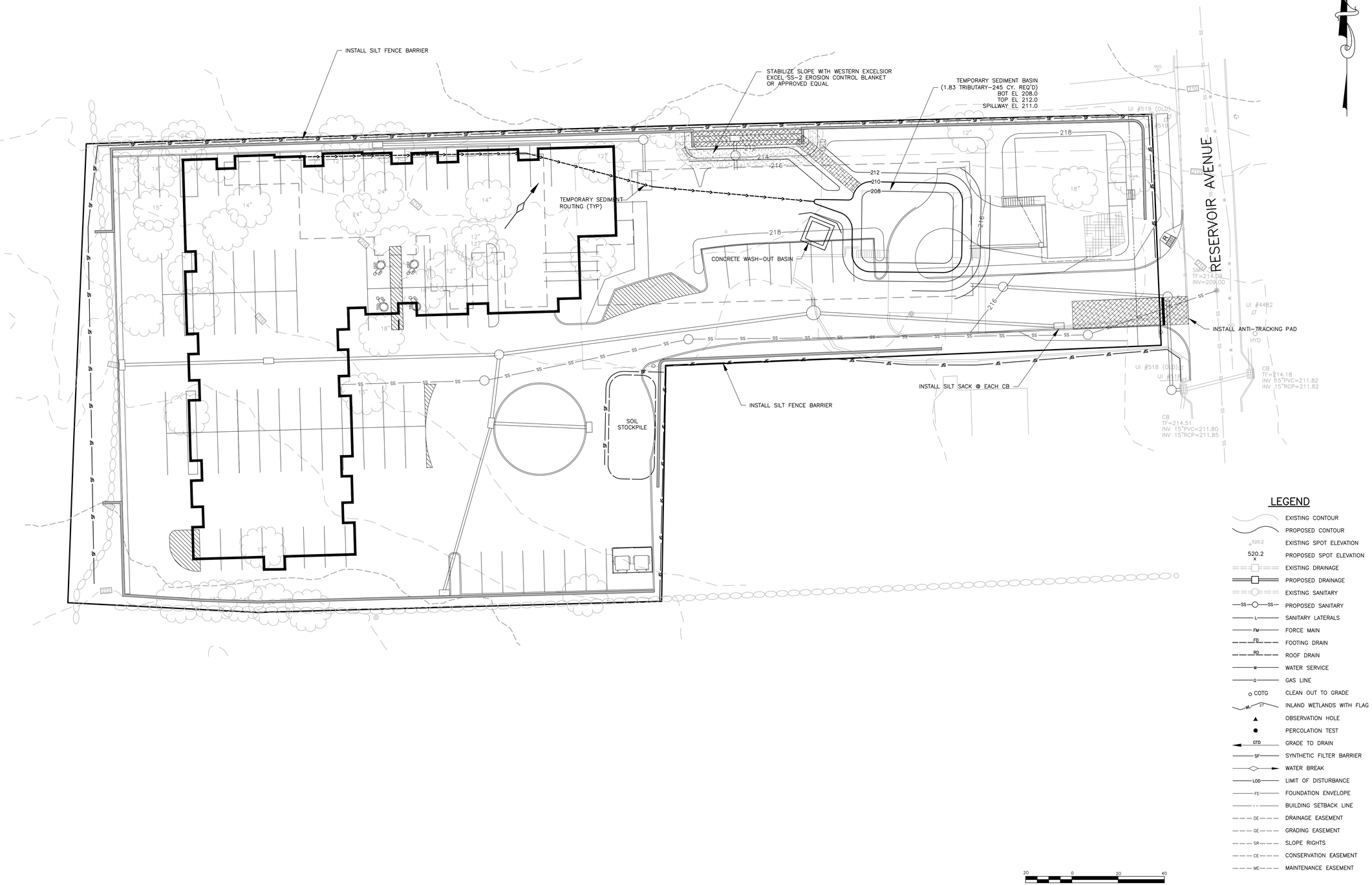
TITLE

UNDERGROUND UTILITIES PLAN

SHEET NUMBER

2.2

FILE NO. ----



LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- EXISTING DRAINAGE
- PROPOSED DRAINAGE
- EXISTING SANITARY
- PROPOSED SANITARY
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20 0 20 40

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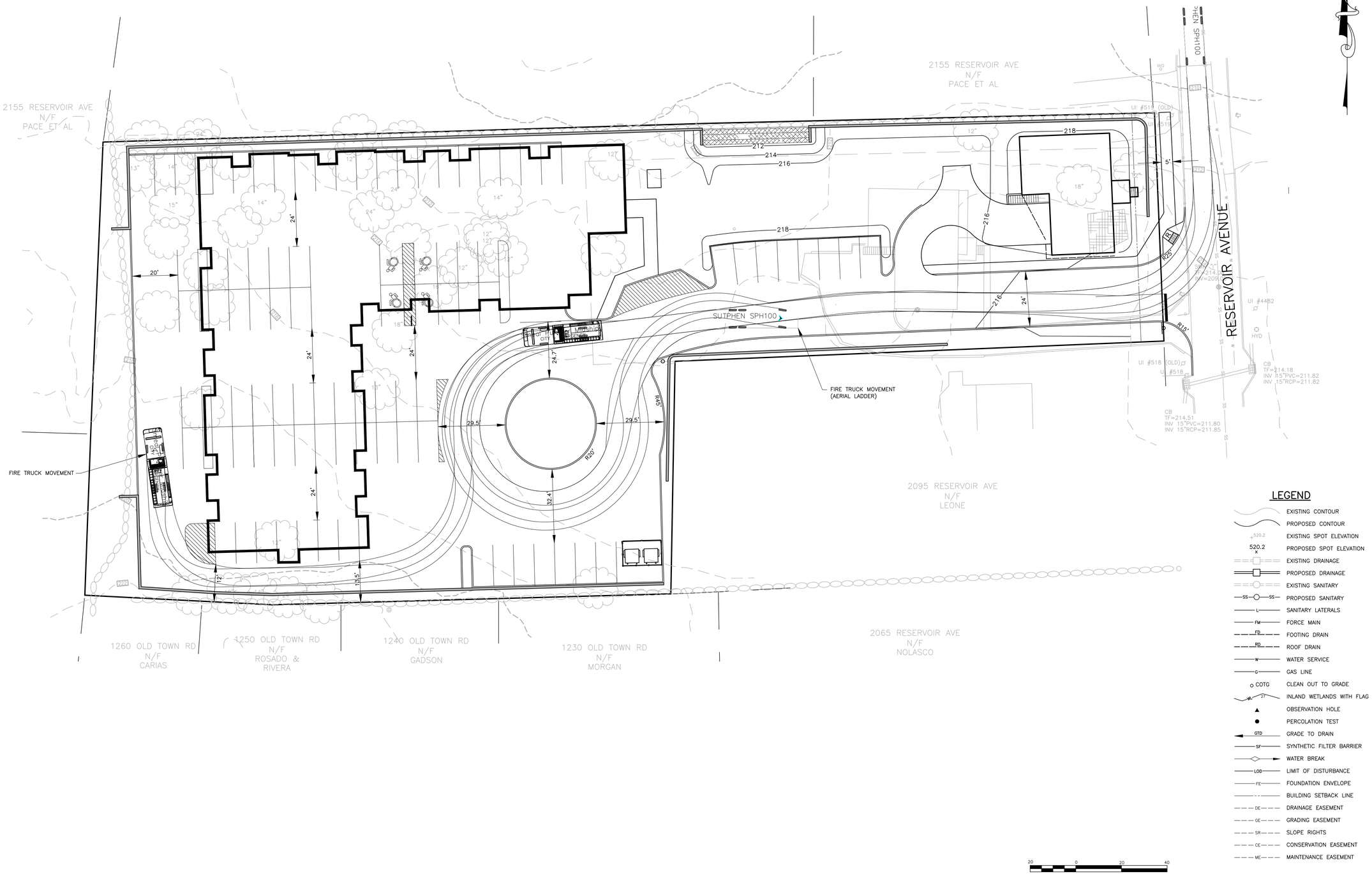
TITLE

EROSION & SEDIMENT CONTROL PLAN

SHEET NUMBER

2.3

FILE NO. ----



LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- EXISTING DRAINAGE
- PROPOSED DRAINAGE
- EXISTING SANITARY
- PROPOSED SANITARY
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20 0 20 40

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DRAWING FILE:
DRAWN BY: NDC
SCALE: SCALE: 1"=20'

TITLE

SCHEMATIC SITE PLAN

SHEET NUMBER

2.4

FILE NO. ----

GENERAL NOTES

1. These plans are for governmental approval only and are not to be used for construction.
2. The proposed improvements indicated on these plans are shown as one of many possible layouts. Any variation from these plans is to be approved by a professional engineer.
3. Topographic data and property lines shown based upon "Improvement Location Survey, 2105 Reservoir Avenue, Trumbull CT, Scale 1"=20' dated June 9, 2023 by J. Edwards & Associates, LLC.
4. Owner/Applicant:
   2150-2125 Reservoir Ave LLC.
   20 Virginia Drive
   Easton, CT 06612
5. Total area of site is 1.687 acres.
6. The site is located in zone A.
7. Reference is made to a document titled: Stormwater Management Report, For The Proposed Development Property located at 2105-2115 Reservoir Avenue, Trumbull CT., Prepared on : December 5, 2024 by J. Edwards & Associates LLC.
8. Proposed dwellings will be served with public water and sewer.
9. The location of underground utilities, if any, is unknown. Call Before-You-Dig 1-800-922-4455.
10. Retaining walls are to be designed by a structural engineer.
11. It is the contractor's responsibility to verify all on-site and off-site field conditions and establish that no changes have occurred since the issuance of this plan. The design engineer is to be notified of any field conditions which conflict with this plan.
12. Existing grades shown hereon are to be verified by the contractor prior to commencing construction.
13. All construction methods, materials and system installations are to conform to Town of Monroe Standards and the State of Connecticut Department of Transportation, Standard Specifications for Roads, Bridges and Incidental Construction, Form 818, July 2020, with latest revisions, to conform all applicable local and state regulations and to normal standards of good practice.
14. Approximately 1.68 acres will be disturbed for the improvements indicated on the plans.

PROJECT DESCRIPTION

The proposal is to construct 380 linear feet of roadway to access 48 apartments and a single family dwelling with associated site improvements. Stormwater is collected and treated within a subsurface detention gallery system before being discharged on-site and the Town drainage system.

STORMWATER POLLUTION CONTROL PLAN

1. Erosion and sediment control measures will be constructed in accordance with the Town of Monroe Standards, State of Connecticut Department of Transportation Standard Specifications for Roads, Bridges and Incidental Construction, Form 818, 2020, with latest revisions, and 2002 Connecticut Guidelines for Soil Erosion and Sediment Control,
2. The Stormwater Pollution Control Plan shall include all erosion and sedimentation control shown on the approved maps and detail sheets. These controls are assumed to be the minimum required, and the contractor may be required to install additional measures as site conditions and weather warrant.
3. All erosion and sediment control devices will be installed prior to the start of clearing and grubbing operations and excavation work. All the devices will be maintained as specified in this document until the disturbed earth has been paved or vegetated, at which time the devices will be removed.
4. All construction methods, materials and system installations are to conform to all applicable local and state regulations.
5. Grading to be according to all applicable regulations and normal standards of good practice.
6. Land disturbance will be kept to a minimum. Restabilization will be scheduled as soon as practicable.
7. Stockpiles of topsoil and common fill shall be surrounded with silt fence and temporarily stabilized by seeding with a 50-50 mix of annual and perennial rye grass at the rate of one pound per 1,000 square feet of surface area shall be employed between March 15 and June 15 or August 1 and October 1. Mulch with straw or hay at the rate of 70 to 90 pounds per 1,000 square feet until stabilized.
8. All control measures will be maintained in effective condition throughout the construction period until the area is stabilized.
9. Maintenance of the erosion controls shall consist of inspection at the start of each work day with special attention afforded following storm events. Noted deficiencies shall be corrected immediately. Accumulated sediment shall be removed from the erosion control device and dispersed temporarily on the upland portion of the disturbed area. Additional seeding or mulching shall be employed as required.
10. The contractor is to inspect the site daily during construction to insure the integrity of the erosion controls.
11. The contractor is to have available at all times extra silt fence, hay bale mulch, grass seed and riprap to implement additional erosion control measures not foreseen in this plan.
12. Prior to closing the site down for winter, if required, the contractor shall schedule a meeting with the project engineer and Town Engineer to review site conditions and make recommendations to minimize erosion during the winter. The meeting is to be held no later than October 1,of any given year.
13. Accumulated sediment is to be disposed of in an area approved by the design engineer, and coordination with Town Engineer.
14. This plan and report may be modified by the design engineer based upon field conditions, and also requires approval by Monroe Town Engineer.
15. Catch basins shall be protected with silt sacks, haybales, and/or silt fence during construction until all disturbed areas are stabilized.
16. Water breaks, silt fence, haybales and other measures are to be maintained until drainage is complete and site is stabilized with vegetated cover.
17. Stabilization practices may include silt fences, temporary seeding, permanent seeding, mulching, geotextiles, sod stabilization, vegetative buffer strips, protection of trees, preservation of mature vegetation and other vegetative and non-structural measures as identified in the Guidelines. Where construction activities have permanently ceased or have temporarily been suspended for more than seven days or when final grades are reached in any portion of the site, stabilization practices shall be implemented within three days. Areas which remain disturbed but inactive for at least thirty days shall receive temporary seeding and/or mulching in accordance with the Guidelines. Areas that will remain disturbed beyond the planting season, shall receive long-term, non-vegetative stabilization sufficient to protect the site through the winter.
18. Structural practices include but are not limited to earth dikes (diversions), drainage swales, sediment traps, check dams, subsurface drains, pipe slope drains, level spreaders, storm drain inlet protection, outlet protection, reinforced soil retained systems, gabions and temporary or permanent sediment basins and chambers.
19. Disturbance for individual lot development will be limited to 1 acre at any one time. Overland drainage from uphill sources will be diverted around the disturbed portions of the lot until those disturbed areas have been stabilized. If more than 1 acre is to be disturbed at one time, sediment traps must be provided. These sediment traps shall have a storage capacity of 134 cubic yards per acre of tributary area. Possible locations are shown on the erosion control plan. The detention basin required by the Stormwater Pollution Control Plan may be used during construction as a temporary sediment basin. Outlet structures from sediment basins shall not encroach upon a wetland.
20. De-watering waste waters might be generated during the construction of the underground utilities and the excavation for basements. Contractors shall arrange for the pumping of water in excavations to occur in sumps created in the excavation and will discharge into temporary sediment traps.
21. All contractors and subcontractors working on site will ensure that no litter, debris, building material or similar material is discharged to the waters of the State.
22. Contractors will implement techniques to control the generation of dust.
23. All post construction storm water structures will be cleaned of construction sediment and any remaining silt fence shall be removed.
24. Individual lots will have their anti-tracking pads installed at all points where construction traffic exits the lot to paved surfaces and silt fence installed as shown on the plans or as required downhill of areas of disturbed earth. Refer to the detail drawings for specifics on proposed measures.

CONSTRUCTION SEQUENCE

1. Install anti-tracking apron as shown where construction traffic enters a public right-of-way.
2. Install perimeter erosion and sediment controls and sediment controls as shown on plan.
3. The foundation for the existing dwelling shall be excavated. The existing house is then to be relocated.
4. Install the temporary sediment trap within the vacated foundation hole.
5. Tree clearing, if required, to commence.
6. Excavate all stumps located in the structural area and remove to a disposal site or stockpile area to be chipped. No stumps are to be buried. Stumps are to be disposed of in accordance with current State law.
7. Strip all topsoil and stockpile in an approved area and secure with erosion and sediment controls.
8. Direct stormwater runoff from the construction area with swales and diversion berms as necessary to flow into the temporary sediment trap.
9. Rough grade building pad for apartment building.
10. Construct all retaining walls on site.
11. Install drainage structures CB1 through CB5 and storm manhole#2.
12. Excavate for and install apartment building foundation.
13. Excavate for and install the western portion of concrete detention galleries.
14. Remove temporary sediment trap.
15. Construct level spreader outfall.
16. Excavate for and install remainder of concrete detention galleries.
17. Rough grade parking bay and driveway.
18. Install sanitary sewer system.
19. Install remainder of drainage structures and piping.
20. Install underground utilities and site lighting.
21. Install silt sacks in each catch basin.
22. Place, grade and compact the processed aggregate in the roadway and parking base.
22. Install first course of bituminous concrete.
23. Install curbing.
24. Apply stabilization measures to remaining disturbed areas in accordance with the Stormwater Quality Management Plan (topsoil, seeding, sodding, mulching, etc.)
25. Inspect and clean drainage system as needed.
26. Install the final course of bituminous concrete pavement.
27. Install landscaping materials.
28. After site is stabilized in accordance with the applicable Stormwater Quality Management Plan measures, remove temporary erosion and sediment controls.

SITE MAINTENANCE PLAN

This Site Maintenance Plan and Schedule highlights the maintenance procedures for the development. However, this does not preclude the maintenance personnel's responsibility to perform maintenance procedures properly, add other procedures as necessary and conduct maintenance in accordance with current state laws and regulations.

Driveways and Parking Areas

The driveway and parking area shall be swept with a mechanical sweeper or broom at least four times per year. One cleaning will be in the fall after the leaves are off the trees. The second will be in the spring after the last snow fall. The other two sweepings will be scheduled at equal intervals during the spring, summer and early fall seasons preferably after extended dry periods. A light spray of water is recommended to minimize dust during sweeping. Use of high velocity blowers is not recommended as they often "defeat the basic purpose of sweeping in an environmentally sound manner."

The sweepings shall be collected and removed from the site. The disposal method shall be determined by the personnel conducting the sweeping and shall comply with all applicable laws.

Pavement markings, directional arrows and stop bars shall be inspected annually. All pavement markings and directional signs shall be replaced as necessary to insure they are clear, visible and reflective to maintain safe traffic flow.

Paved surfaces shall be crack sealed on a yearly basis and inspected for "Pot Holes". Required patching shall be done on a yearly basis every spring. Paved surfaces should be replaced every 20 years, or as site conditions warrant.

Catch Basins

The catch basin shall be cleaned twice per year. The cleaning shall be in the late fall after leaves have fallen and before snowfall. The second cleaning shall be in springtime after snow melt to remove accumulated debris and sand from the catch basin sump. In no case, shall the sediment level exceed 50% of the sump volume of the catch basin.

A vactor truck may be used to clean the catch basin. Disposal of liquids and solids contained in the vactor truck requires specific disposal protocol and discharge permits. Operators shall be aware of the regulations. Decanted water from the catch basin may not be returned to the catch basin.

Stormwater Treatment Units

The Mechanical Treatment Devise will be maintained according to the manufacturer's recommendations. As a minimum the devise shall be inspected twice per year. The cleaning of the sediment in the sump is recommended when sediment is 6 inches deep. The floatables should be cleaned when the depth in the chamber is greater than one inch. A preliminary schedule is to clean the devise in the late fall and in springtime after snow melt. The pumper truck contents shall be delivered to an approved waste disposal facility.

Detention Galleries

The detention galleries shall be inspected annually. If sediment is observed at the inlet to the gallery system, it shall be removed. This is an indication that the catch basin sumps and or the stormwater treatment unit are not functioning as designed. It may be necessary to increase the frequency of the cleaning of the drainage structures.

Landscaping

The site landscaping shall be maintained including trimming and replacing plant materials that have died or diseased. All grass areas shall be maintained by cutting and fertilizing. All fertilizer application shall be based upon a yearly evaluation of the required nutrient levels and fertilizer application shall be calibrated accordingly to avoid excessive amounts of fertilizer. Litter and dead, diseased or unhealthy plants which are a safety hazard shall be removed.

SOILS TESTING RESULTS

TH-1 Roots @ 36"
0 – 14" Top Soil
14" – 24" Orange Brown Silty Sandy Loam
24" – 48" Olive Brown Silty Medium Sand
48" – 94" Olive Brown Hardpan
No Ledge Seep @ 62" Redoximorphic Features @ 56"

TH-2 Roots @ 24"
0 – 10" Top Soil
10" – 18" Light Orange Silty Loam
18" – 48" Olive Brown Medium Sand
48" – 74" Olive Brown Hardpan
No Ledge Seep @ 38" Redoximorphic Features @ 20"

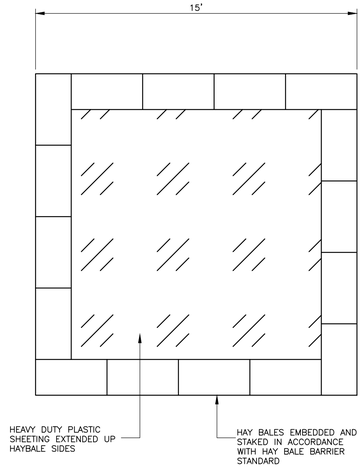
TH-3 No Roots
0 – 8" Top Soil
8" – 19" Olive Brown Silty Sandy Loam
Ledge @ 19" No Water" No Redoximorphic Features

TH-3
Ledge To Grade

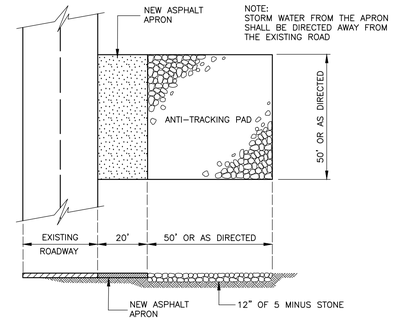
TH-4 Roots @ 48"
0 – 8" Top Soil
8" – 24" Brown Silty Sandy Loam
24" – 50" Orange Brown Silty Sandy Loam
50" – 64" Tan Medium Sand
64" – 74" Tan Hardpan
No Ledge No Water Redoximorphic Features @ 56"

TH-5 No Roots
0 – 2" Top Soil
2" – 8" Tan Loam Fill
8" – 19" Original Topsoil
19" – 27" Olive Brown Silty Sand
27" – 50" Tan Mottled Sandy Clay
No Ledge Water @ 19" Redoximorphic Features @ 27"

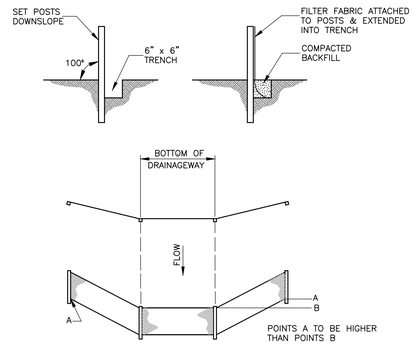
TH-6 Roots @ 26"
0" – 12" Top Soil
12" – 28" Light Brown Silty Sandy Loam
28" – 58" Tan Mottled Silty Clay
No Ledge Water @ 30" Redoximorphic Features @ 28"



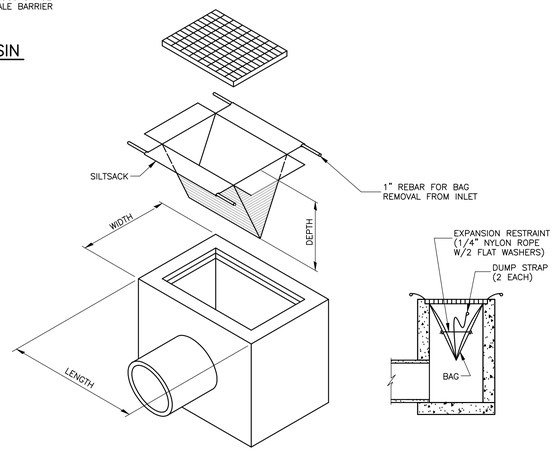
CONCRETE WASHOUT BASIN



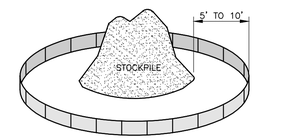
ANTI-TRACKING PAD



SYNTHETIC FILTER BARRIER

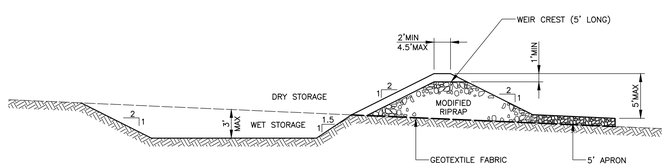


SEDIMENT CONTROL AT INLET

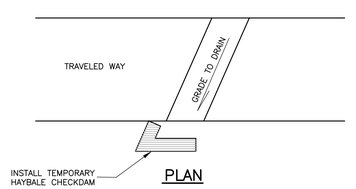


APPLY MIXTURE OF PERRENIAL RYEGRASS, ANNUAL RYEGRASS AND WINTER RYE AT A RATE OF 10 LBS PER 1000 SF

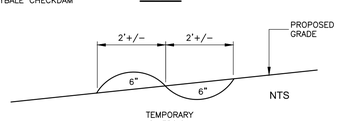
STOCKPILE STABILIZATION



TEMPORARY SEDIMENT TRAP



PLAN



TEMPORARY WATER BREAK

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TRUMBULL, CONNECTICUT
PREPARED FOR
2105-2125 RESERVOIR AVE LLC

REVISIONS

#	DATE	DESCRIPTION
1	6-20-25	CLIENT
2	12-11-25	CLIENT
3	12-16-25	CLIENT

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PROJECT #: 3021
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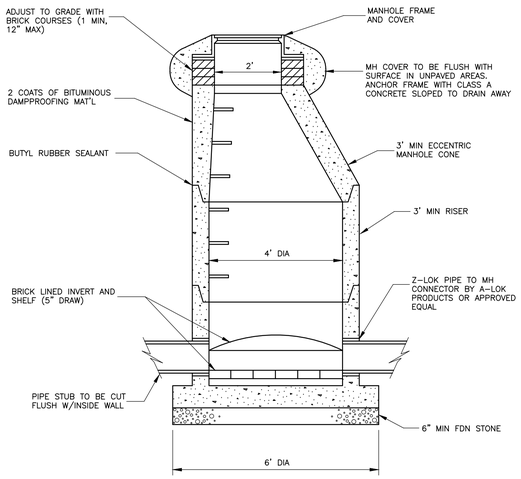
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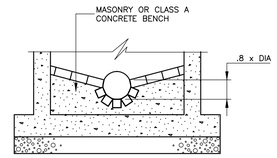
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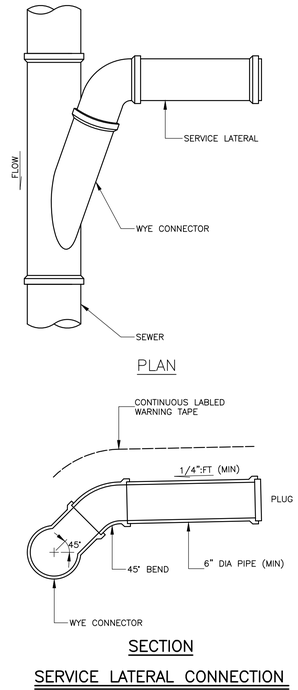
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SANITARY MANHOLE

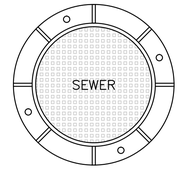


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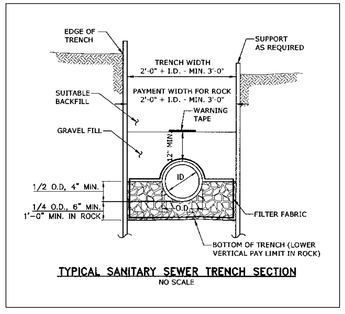
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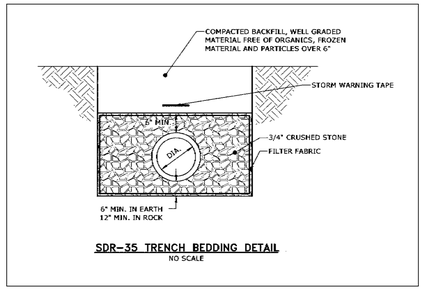


STANDARD FRAME AND COVER

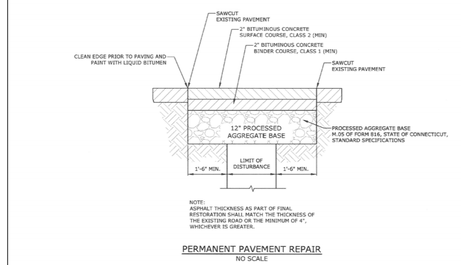
FRAME AND COVER BY LEBARON FOUNDRY COMPANY #LA268-300 OR APPROVED EQUAL



TYPICAL SANITARY SEWER TRENCH SECTION
NO SCALE



SDR-35 TRENCH BEDDING DETAIL
NO SCALE



PERMANENT PAVEMENT REPAIR
NO SCALE

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3	12-16-25	CLIENT

DATE: 10-31-24
PROJECT #: 3021
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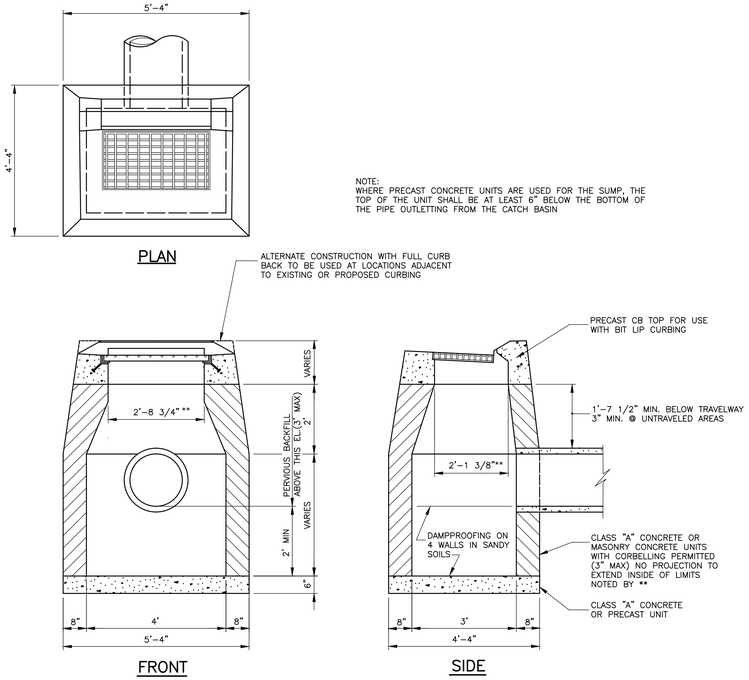
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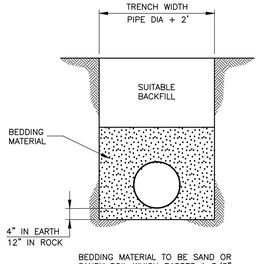
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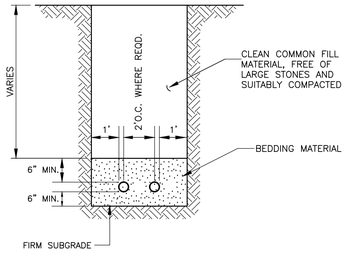
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FILE NO. ----





DRAINAGE PIPE TRENCH



UTILITIES TRENCH

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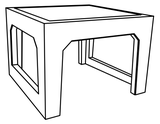
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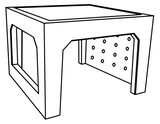
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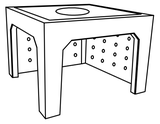
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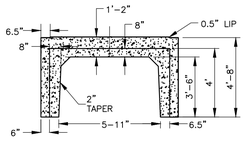
MULTI ROW CENTER

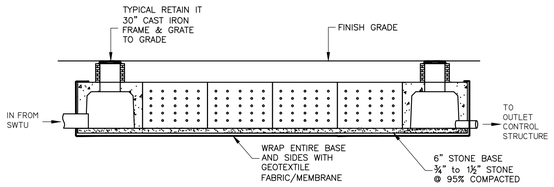


MULTI ROW PERIMETER

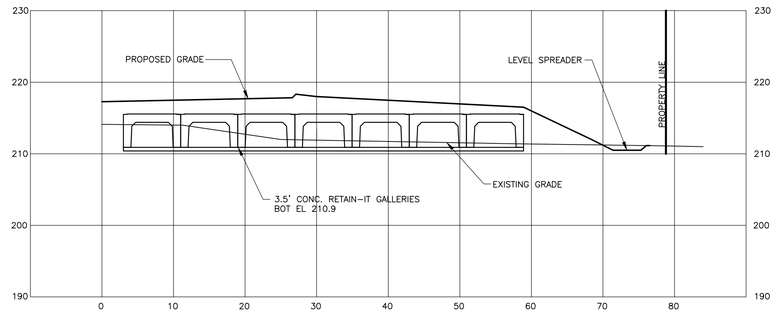


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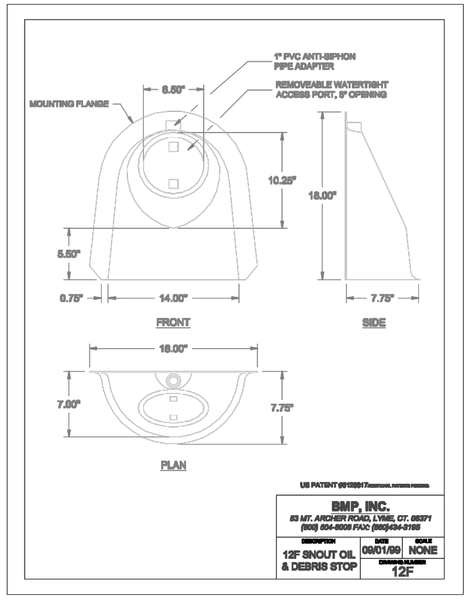




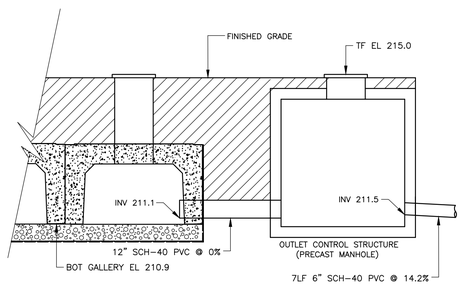
RETAIN-IT® DETENTION GALLERY SYSTEM



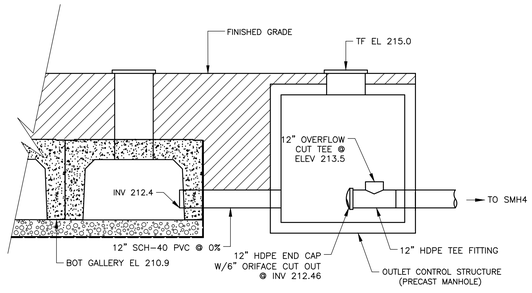
SECTION A–A
SCALE: 1"=10'



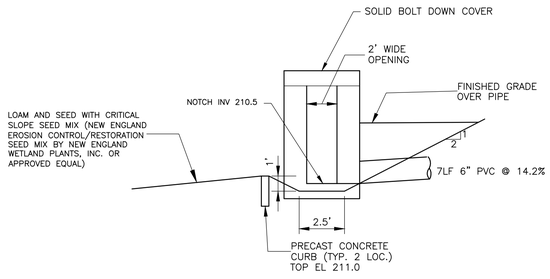
CATCH BASIN HOOD



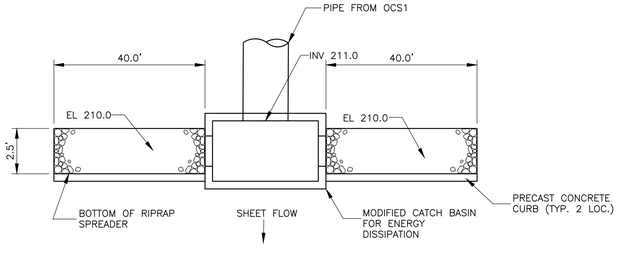
OUTLET CONTROL STRUCTURE #1



OUTLET CONTROL STRUCTURE #2

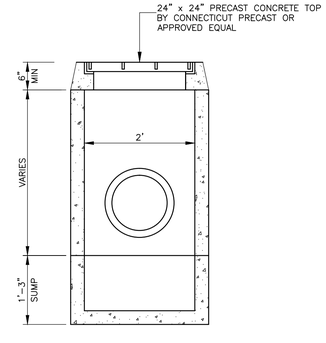


SECTION



PLAN

LEVEL SPREADER (OCS1)



2' x 2' YARD DRAIN BY CONNECTICUT PRECAST OR APPROVED EQUAL

AREA DRAIN

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2105-2125 RESERVOIR AVE LLC

REVISIONS

#	DATE	DESCRIPTION
1	6-20-25	CLIENT
2	12-11-25	CLIENT
3	12-16-25	CLIENT

DATE: 10-31-24
PROJECT #: 3021
DRAWING FILE:
DRAWN BY: NDC
SCALE: NTS

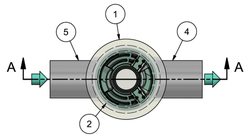
TITLE

DETAILS

SHEET NUMBER

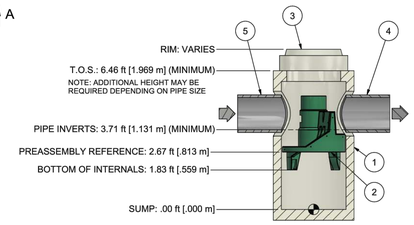
3.4

FILE NO. ----



PLAN VIEW

HYDRO FRAME AND COVER (INCLUDED)
GRADE RINGS BY OTHERS AS REQUIRED



SECTION A-A

1. MANHOLE WALL AND SLAB THICKNESSES ARE NOT TO SCALE.

2. CONTACT HYDRO INTERNATIONAL FOR A BOTTOM OF STRUCTURE ELEVATION PRIOR TO SETTING FIRST DEFENSE MANHOLE.

3. CONTRACTOR TO CONFIRM RIM, PIPE INVERTS, PIPE DIA. AND PIPE ORIENTATION PRIOR TO RELEASE OF UNIT TO FABRICATION.

PROJECTION

IF IN DOUBT ASK

DATE:	SCALE:
11/2/2021	1:30
DRAWN BY: ER	CHECKED BY: MRJ
APPROVED BY:	

TITLE: 3-ft DIAMETER FIRST DEFENSE

GENERAL ARRANGEMENT

Hydro International
Hydro-int.com
HYDRO INTERNATIONAL

WEIGHT: | MATERIAL:
STOCK NUMBER:
DRAWING NO.: FD GA-3
SHEET SIZE: B | SHEET: 1 OF 1 | Rev: -

PRODUCT SPECIFICATION:

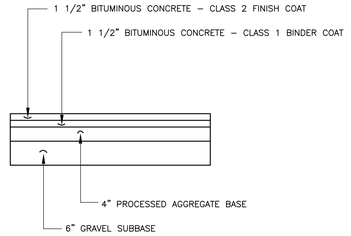
1. Peak Hydraulic Flow: 15.0 cfs (424 l/s)
2. Min Sediment Storage Capacity: 0.4 cu. yd. (0.3 cu. m.)
3. Maximum Inlet/Outlet Pipe Diameters: 18 in. (450 mm)
4. The treatment system shall use an induced vortex to separate pollutants from stormwater runoff.
5. For more product information including regulatory acceptances, please visit https://hydro-int.com/en/products/first-defense

GENERAL NOTES:
1. General Arrangement drawings only. Contact Hydro International for site specific drawings.
2. The diameter of the inlet and outlet pipes may be no more than 18".
3. Multiple inlet pipes possible (refer to project plan).
4. Inlet/outlet pipe angle can vary to align with drainage network (refer to project plans).
5. Peak flow rate and minimum height limited by available cover and pipe diameter.
6. Larger sediment storage capacity may be provided with a deeper sump depth.

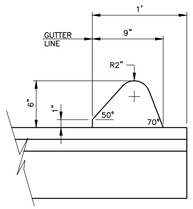
PARTS LIST

ITEM	QTY	SIZE (in)	SIZE (mm)	DESCRIPTION
1	1	36	900	I.D. PRECAST MANHOLE
2	1			INTERNAL COMPONENTS (PRE-INSTALLED)
3	1	30	750	FRAME AND COVER (ROUND)
4	1	18 (MAX)	450 (MAX)	OUTLET PIPE (BY OTHERS)
5	1	18 (MAX)	450 (MAX)	INLET PIPE (BY OTHERS)

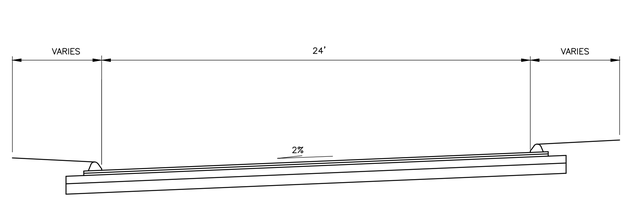
GENERIC STORMWATER TREATMENT UNIT DETAIL
(SHOP DRAWING TO BE APPROVED PRIOR TO CONSTRUCTION)



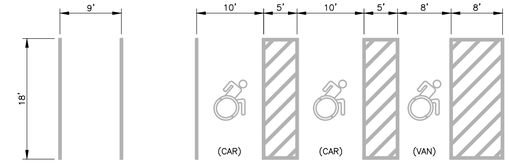
PAVEMENT SECTION–ONSITE



BITUMINOUS LIP CURBING



SUPERELEVATED ROADWAY SECTION

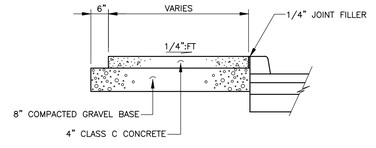


GUEST

HANDICAP

PARKING SPACES

NOTE:
HANDICAP PARKING SPACES SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION



CONCRETE SIDEWALK

TRENCH DRAIN

J. EDWARDS & ASSOCIATES LLC
ENGINEERING • SURVEYING • SITE PLANNING

227 Stepney Road Easton, CT 06612
Phone:203.268.4205 Fax: 203.268.5604
www.jedwardsassoc.com

STATE OF CONNECTICUT — JAMES R. EDWARDS — No. 10937 — LICENSED PROFESSIONAL ENGINEER

STATE OF CONNECTICUT — JASON EDWARDS — LICENSED LAND SURVEYOR

2105 & 2125 RESERVOIR AVENUE
TRUMBULL, CONNECTICUT
PREPARED FOR
2105-2125 RESERVOIR AVE LLC

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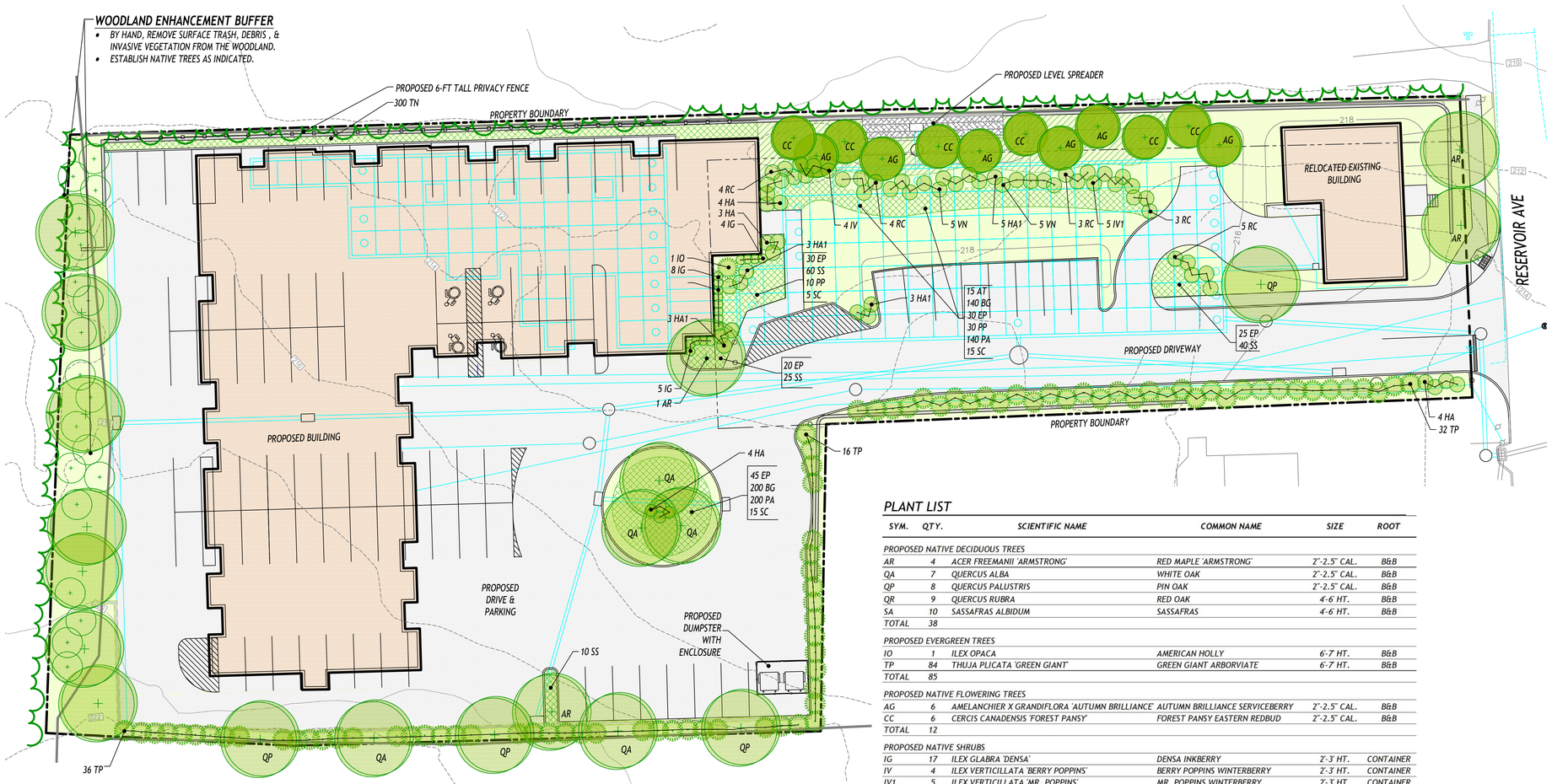
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DETAILS

SHEET NUMBER

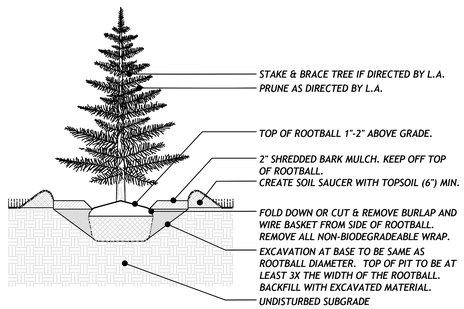
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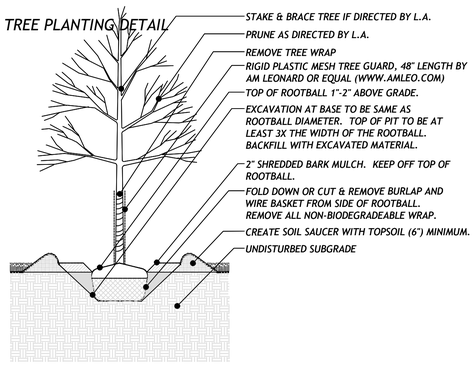
NOT TO SCALE

EVERGREEN TREE PLANTING DETAIL



NOT TO SCALE

TREE PLANTING DETAIL



PLANT LIST

SYM.	QTY.	SCIENTIFIC NAME	COMMON NAME	SIZE	ROOT
PROPOSED NATIVE DECIDUOUS TREES					
AR	4	ACER FREEMANII 'ARMSTRONG'	RED MAPLE 'ARMSTRONG'	2"-2.5" CAL.	B&B
QA	7	QUERCUS ALBA	WHITE OAK	2"-2.5" CAL.	B&B
QP	8	QUERCUS PALUSTRIS	PIN OAK	2"-2.5" CAL.	B&B
QR	9	QUERCUS RUBRA	RED OAK	4'-6' HT.	B&B
SA	10	SASSAFRAS ALBIDUM	SASSAFRAS	4'-6' HT.	B&B
TOTAL	38				
PROPOSED EVERGREEN TREES					
IO	1	ILEX OPACA	AMERICAN HOLLY	6'-7' HT.	B&B
TP	84	THUJA PLICATA 'GREEN GIANT'	GREEN GIANT ARBORVIATE	6'-7' HT.	B&B
TOTAL	85				
PROPOSED NATIVE FLOWERING TREES					
AG	6	AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIANCE'	AUTUMN BRILLIANCE SERVICEBERRY	2"-2.5" CAL.	B&B
CC	6	CERCIS CANADENSIS 'FOREST PANSY'	FOREST PANSY EASTERN REDBUD	2"-2.5" CAL.	B&B
TOTAL	12				
PROPOSED NATIVE SHRUBS					
IG	17	ILEX GLABRA 'DENSA'	DENSA INKBERRY	2'-3' HT.	CONTAINER
IV	4	ILEX VERTICILLATA 'BERRY POPPINS'	BERRY POPPINS WINTERBERRY	2'-3' HT.	CONTAINER
IV1	5	ILEX VERTICILLATA 'MR. POPPINS'	MR. POPPINS WINTERBERRY	2'-3' HT.	CONTAINER
HA	15	HYDRANGEA ARBORESCENS 'INCREDIBALL'	INCREDIBALL SMOOTH HYDRANGEA	2'-3' HT.	CONTAINER
HA1	14	HYDRANGEA ARBORESCENS 'HAAS HALO'	HAAS HALO SMOOTH HYDRANGEA	2'-3' HT.	CONTAINER
RC	19	RHODODENDRON CATAWBIENSE 'ALBUM'	CATAWBA RHODODENDRON	2'-3' HT.	CONTAINER
VN	10	VIBURNUM NUDUM 'BRANDYWINE'	BRANDYWINE POSSUMHAW VIBURNUM	2'-3' HT.	CONTAINER
TOTAL	84				
PROPOSED NATIVE GROUNDCOVERS					
AT	15	AMSONIA HUBRICHTII	NARROWLEAF BLUESTAR	1 GAL.	CONTAINER
BG	340	BOUTELA GRAMA 'BLONDE AMBITION'	BLONDE AMBITION GRAMA GRASS	1 GAL.	CONTAINER
EP	150	ECHINACEA PURPUREA	PURPLE CONEFLOWER	1 GAL.	CONTAINER.
PA	340	PACKERA AUREA	GOLDEN RAGWORT	1 GAL.	CONTAINER
PP	40	PHLOX PANICULATA 'FASHIONABLY EARLY'	FASHIONABLY EARLY GARDEN PHLOX	1 GAL.	CONTAINER
SC	35	SYMPHIOTRICHUM CORDIFOLIUM	WOODS BLUE ASTER	1 GAL.	CONTAINER
SS	135	SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM	1 GAL.	CONTAINER.
TOTAL:	1,055				

PROPOSED NATIVE MEADOW SEED MIX

PROPOSED NATIVE WETLAND MEADOW: "NEW ENGLAND WETMIX" AS PRODUCED BY NEW ENGLAND WETLAND PLANTS (WWW.NEWP.COM). APPLIED AT A RATE OF 1LB/2,500 SQAURE FEET.

GENERAL NOTES

1. UNLESS NOTED OTHERWISE, EXISTING AND PROPOSED CONDITIONS INFORMATION TAKEN FROM A DRAWING PREPARED BY J. EDWARDS & ASSOCIATES LLC.
2. PROPOSED PLANTING INFORMATION PROVIDED BY WILLIAM KENNY ASSOCIATES LLC.

LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- PROPERTY BOUNDARY
- ADJACENT PROPERTY BOUNDARY
- EXISTING UTILITIES
- PROPOSED UTILITIES
- EXISTING STONE WALL
- PROPOSED WALL
- EXISTING TREE CANOPY
- PROPOSED NATIVE SHADE TREE (2"-2.5" CAL.)
- PROPOSED NATIVE SHADE TREE (4'-6' HT.)
- PROPOSED NATIVE FLOWERING TREE
- PROPOSED EVERGREEN TREE
- PROPOSED NATIVE SHRUBS
- PROPOSED NATIVE GROUNDCOVERS
- PROPOSED NATIVE MEADOW
- LAWN

PLANTING NOTES

1. PROPOSED TREE AND SHRUB LOCATIONS TO BE ADJUSTED IN FIELD AS NEEDED BASED ON FIELD CONDITIONS.
2. PLANT SPACING FOR HERBACEOUS MATERIAL TO BE 18"-24" O.C.
3. BOTANICAL NAMES SHALL PREVAIL OVER COMMON NAMES.
4. ALL PLANT MATERIAL SHALL BE NURSERY GROWN; NO COLLECTED MATERIALS SHALL BE ACCEPTED, UNLESS SPECIFICALLY INDICATED.
5. PLANTS SHALL CONFORM TO THE AMERICAN ASSOCIATION OF NURSERYMEN STANDARDS IN ALL WAYS INCLUDING DIMENSIONS.
6. THE LANDSCAPE ARCHITECT HAS THE RIGHT TO REJECT ANY PLANT MATERIALS UPON DELIVERY TO THE PROJECT. SELECTION BY THE LANDSCAPE ARCHITECT DOES NOT WAIVE THE RIGHT OF REJECTION.
7. ALL REPLACEMENTS SHALL BE PLANTS OF THE SAME KIND AND SIZE AS SPECIFIED IN THE PLANT LIST OR AS NECESSARY TO MATCH SURVIVING PLANTS OF THE SAME PLANTING GROUP. ALL COSTS SHALL BE BORN BY THE LANDSCAPE CONTRACTOR EXCEPT FOR REPLACEMENTS RESULTING FROM LOSS OR DAMAGE DUE TO VANDALISM OR ACTS OF NEGLECT ON THE PART OF OTHERS, PHYSICAL DAMAGE, BY ANIMALS, VEHICLES, FIRE, ETC., AS MAY BE DETERMINED BY THE LANDSCAPE ARCHITECT.
8. ALL PLANT MATERIAL SHOULD BE PLACED, OR LOCATION STAKED, ON THE SITE AS SHOWN ON THE PLANTING PLAN PRIOR TO COMMENCEMENT OF PLANT EXCAVATION FOR THE LANDSCAPE ARCHITECT'S APPROVAL. THE CONTRACTOR MUST NOTIFY THE LANDSCAPE ARCHITECT OF ALL PLANTING OPERATIONS A MINIMUM OF 48 HOURS IN ADVANCE.
9. ALL PLANT MATERIALS SHALL BE BALLED AND BURLAPPED OR CONTAINER GROWN OR AS OTHERWISE SPECIFIED. NO CONSTRUCTED BALLS SHALL BE ACCEPTED. REMOVE SYNTHETIC 'BURLAP' AND SYNTHETIC TWINES AND ROPES. REMOVE TOP 1/3 OF METAL BASKETS FROM ROOT BALLS WHEN THE ROOT BALL HAS BEEN POSITIONED IN THE PLANTING PIT. PROVIDE SUPPORT AS NECESSARY TO PROTECT THE ROOT BALL FROM INJURY DURING THIS OPERATION.
3. TO PREVENT DAMAGE FROM WHITE TAILED DEER BROWSE, THE SHRUB PLANTINGS SHALL BE PROTECTED AS NEEDED WITH TEMPORARY FENCING OR OTHER MEASURES UNTIL THE SHRUBS ARE WELL ESTABLISHED.

PLANTING PLAN

PREPARED FOR:

J. EDWARDS ASSOCIATES LLC

LOCATION:

2105 & 2125 RESERVOIR AVE
TRUMBULL, CONNECTICUT

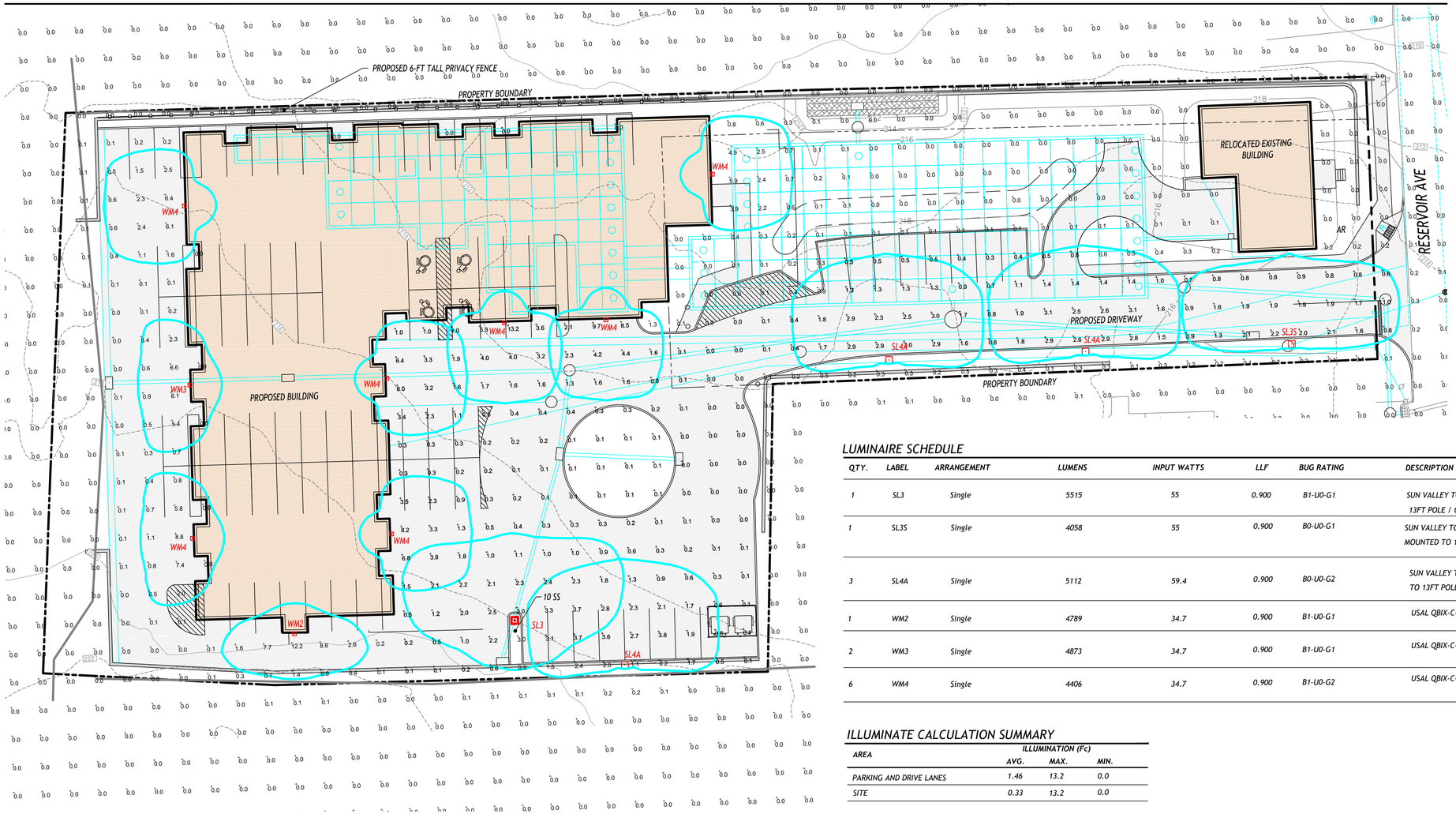
DATE: 12/16/25 - 1

SCALE: 0' 10' 20'

REF NO. 5703

NORTH

WILLIAM KENNY ASSOCIATES
LANDSCAPE ARCHITECTURE ▪ ECOLOGICAL SERVICES
1899 Bronson Road Fairfield CT 06824
203 366 0588 www.wkassociates.net



LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- PROPERTY BOUNDARY
- ADJACENT PROPERTY BOUNDARY
- EXISTING UTILITIES
- PROPOSED UTILITIES
- EXISTING WALL
- PROPOSED WALL
- PROPOSED WALL MOUNTED DLIGHT
- PROPOSED POLE MOUNTED LIGHT
- LIGHT DISTRIBUTION SHAPE BOUNDARY
- ILLUMINATE (FC) SPOT VALUE

GENERAL NOTES

1. UNLESS NOTED OTHERWISE, EXISTING AND PROPOSED CONDITIONS INFORMATION TAKEN FROM A DRAWING PREPARED BY J. EDWARDS ASSOCIATES, LLC.
2. PROPOSED PHOTOMETRICS ANALYSIS AND OTHER LIGHTING INFORMATION TAKEN FROM A DRAWING COMPLETED AND PROVIDED BY CONSOLIDATED ELECTRICAL DISTRIBUTORS, INC. DESIGN SOLUTIONS.
3. THIS PHOTOMETRIC ANALYSIS IS A MATHEMATICAL MODEL AND CAN BE ONLY AS ACCURATE AS IS PERMITTED BY THE THIRD PARTY SOFTWARE AND THE IES STANDARDS USED. MANY FACTORS WILL IMPACT THE ACTUAL PERFORMANCE OF LIGHTING IN THE CONSTRUCTED SPACE, INCLUDING:
   - 3.1. ACCURACY OF THE .IES PHOTOMETRIC DATA FILES SUPPLIED BY THE MANUFACTURERS
   - 3.2. ACTUAL FINISH REFLECTANCE VALUES IN THE CONSTRUCTED ENVIRONMENT
   - 3.3. FINAL LUMINAIRE PLACEMENT INCLUDING OBSTRUCTIONS AND INSTALLATION QUALITY
4. THE PHOTOMETRIC ANALYSIS HAS BEEN COMPLETED PER CUSTOMER DESIGN CRITERIA, WHILE ACCOUNTING FOR ENERGY CODES THAT MAY IMPACT DESIRED LEVELS. ANY CALCULATIONS THAT CONFLICT WITH EITHER SHOULD BE BROUGHT TO CED'S ATTENTION ASAP FOR CORRECTION.

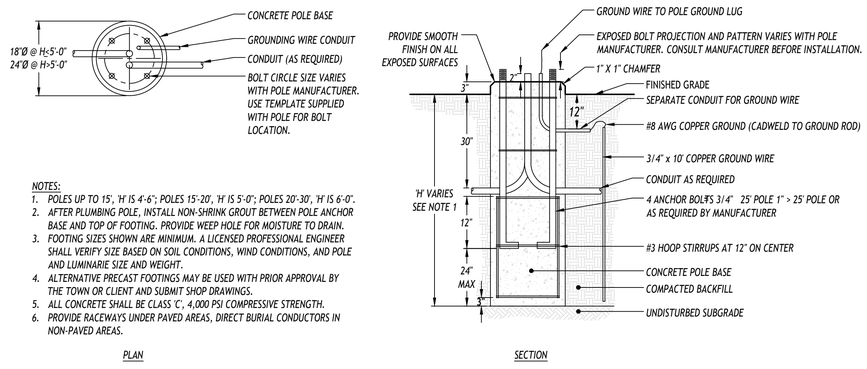
LUMINAIRE SCHEDULE

QTY.	LABEL	ARRANGEMENT	LUMENS	INPUT WATTS	LLF	BUG RATING	DESCRIPTION
1	SL3	Single	5515	55	0.900	B1-U0-G1	SUN VALLEY TCL18-PLED-III-M-20LED-875mA-30K-UNV-PT27-FINISH-NL / MOUNTED TO 13FT POLE / OVERALL HT APPROX 16FT
1	SL3S	Single	4058	55	0.900	B0-U0-G1	SUN VALLEY TCL18-PLED-III-M-20LED-875mA-30K-UNV-PT27-FINISH-NL-HS-PLED / MOUNTED TO 13FT POLE / OVERALL HT APPROX 16FT
3	SL4A	Single	5112	59.4	0.900	B0-U0-G2	SUN VALLEY TCL18-PLED-IV-36LED-525mA-30K-UNV-PT27-FINISH-NL-HS-PLED / MOUNTED TO 13FT POLE / OPTICAL HT APPROX 16FT
1	WM2	Single	4789	34.7	0.900	B1-U0-G1	USAL QBIX-C-PD-PLED-II-35W-16L-30K-UNV-FINISH / WALL MOUNTED @ 7FT AFG TO BOF
2	WM3	Single	4873	34.7	0.900	B1-U0-G1	USAL QBIX-C-PD-PLED-III-35W-16L-30K-UNV-FINISH / WALL MOUNTED @ 7FT AFG TO BOF
6	WM4	Single	4406	34.7	0.900	B1-U0-G2	USAL QBIX-C-PD-PLED-IV-FT-35W-16L-30K-UNV-FINISH / WALL MOUNTED @ 7FT AFG TO BOF

ILLUMINATE CALCULATION SUMMARY

AREA	ILLUMINATION (Fc) AVG.	MAX.	MIN.
PARKING AND DRIVE LANES	1.46	13.2	0.0
SITE	0.33	13.2	0.0

LIGHT POLE BASE DETAIL



NOTES:
1. POLES UP TO 15', 'H' IS 4'-6"; POLES 15'-20', 'H' IS 5'-0"; POLES 20'-30', 'H' IS 6'-0".
2. AFTER PLUMBING POLE, INSTALL NON-SHRINK GROUT BETWEEN POLE ANCHOR BASE AND TOP OF FOOTING. PROVIDE WEEP HOLE FOR MOISTURE TO DRAIN.
3. FOOTING SIZES SHOWN ARE MINIMUM. A LICENSED PROFESSIONAL ENGINEER SHALL VERIFY SIZE BASED ON SOIL CONDITIONS, WIND CONDITIONS, AND POLE AND LUMINARIE SIZE AND WEIGHT.
4. ALTERNATIVE PRECAST FOOTINGS MAY BE USED WITH PRIOR APPROVAL BY THE TOWN OR CLIENT AND SUBMIT SHOP DRAWINGS.
5. ALL CONCRETE SHALL BE CLASS 'C', 4,000 PSI COMPRESSIVE STRENGTH.
6. PROVIDE RACEWAYS UNDER PAVED AREAS, DIRECT BURIAL CONDUCTORS IN NON-PAVED AREAS.

PLAN

SECTION

WALL MOUNTED LIGHT (WM2, WM3, WM4)



POST MOUNTED LIGHT (SL3, SL3S, SL4A)



SITE LIGHTING PLAN

PREPARED FOR:
J. EDWARDS ASSOCIATES LLC

LOCATION:
2105 & 2125 RESERVOIR AVE
TRUMBULL, CONNECTICUT

DATE: 12/16/25 - 1
SCALE: 0' 10' 20'
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NORTH

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ZONING DATA TABLE

PROPOSED MULTI-FAMILY ZONE	MINIMUM REQUIRED MAXIMUM ALLOWED	PROPOSED CONDITIONS	AS-BUILT CONDITIONS
Minimum Lot Area	1 Acres	1.68	
Maximum Density	40 Units per Acre	29 Units/Ac	
Setback From Front Line	10'	12'	
Setback From Side Property Lines	0	2'	
Setback From Rear Property Lines	0	10'	
Maximum Height For A Building Or Structure	65' – 5 Stories	52'+/-(3 Stories)	
Maximum Lot Coverage	100%	95%	
Maximum Building Lot Coverage	60%	53%	
Minimum Pervious Landscaping Area	0	5%	

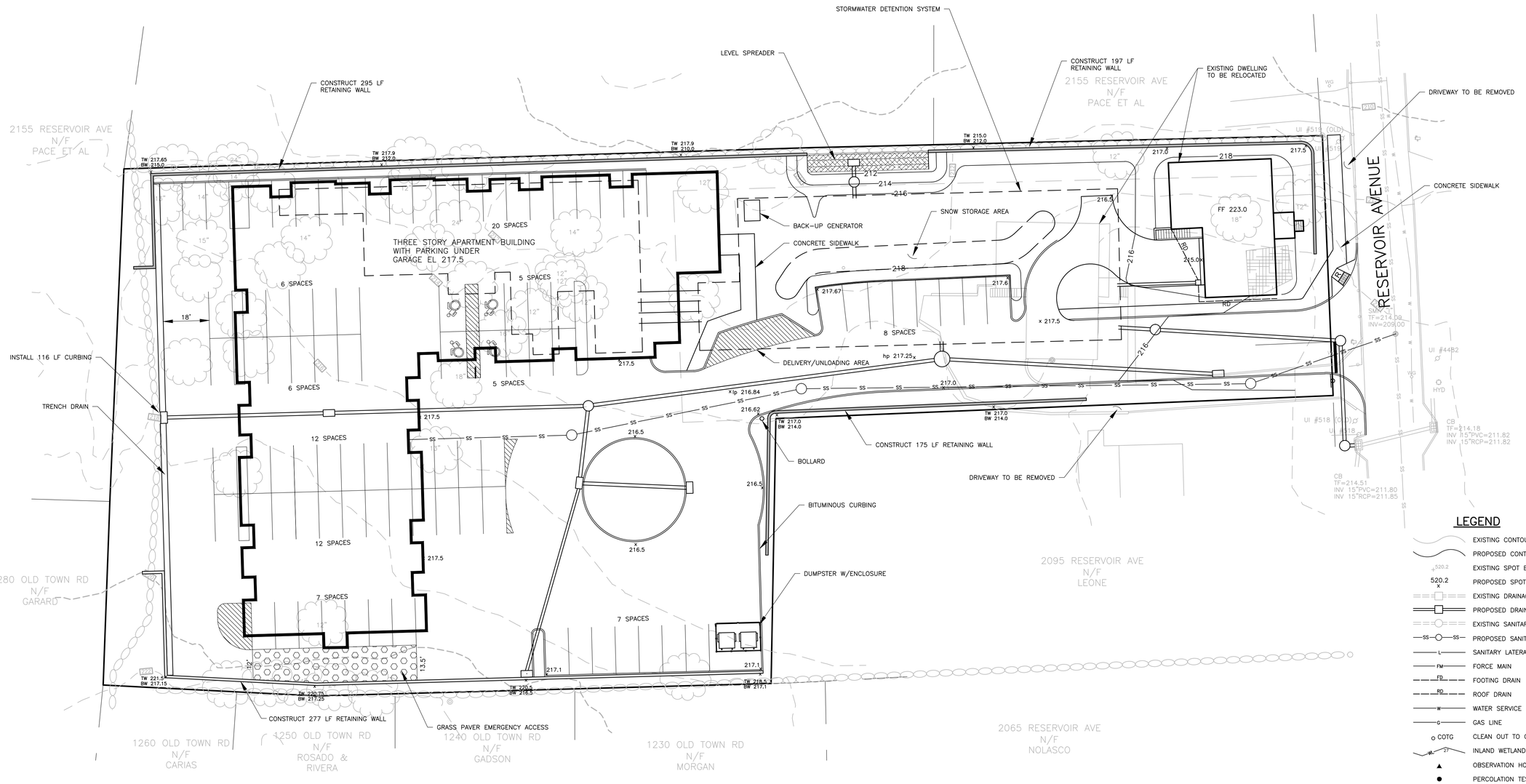
PARKING ANALYSIS

APARTMENT COUNT– 48

PARKING SPACES PROVIDED UNDER BUILDING AND EXTERIOR SURFACE = 108
108 SPACES/48 UNITS= 2.25 SPACES PER APARTMENT.

108 SPACES REQUIRES 5 HANDICAP SPACES TO BE PROVIDED.

SINGLE FAMILY RESIDENCE COUNT– 1
TWO PARKING SPACES PROVIDED IN GARAGE.



LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- EXISTING DRAINAGE
- PROPOSED DRAINAGE
- EXISTING SANITARY
- PROPOSED SANITARY
- SANITARY LATERALS
- FORCE MAIN
- FOOTING DRAIN
- ROOF DRAIN
- WATER SERVICE
- GAS LINE
- CLEAN OUT TO GRADE
- INLAND WETLANDS WITH FLAG #
- OBSERVATION HOLE
- PERCOLATION TEST
- GRADE TO DRAIN
- SYNTHETIC FILTER BARRIER
- WATER BREAK
- LIMIT OF DISTURBANCE
- FOUNDATION ENVELOPE
- BUILDING SETBACK LINE
- DRAINAGE EASEMENT
- GRADING EASEMENT
- SLOPE RIGHTS
- CONSERVATION EASEMENT
- MAINTENANCE EASEMENT

PERMIT SET – NOT FOR CONSTRUCTION

J. EDWARDS & ASSOCIATES LLC
ENGINEERING • SURVEYING • SITE PLANNING

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Phone:203.268.4205 Fax: 203.268.5604
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STATE OF CONNECTICUT – JOSEPH R. EDWARDS – No. 10937 – LICENSED PROFESSIONAL ENGINEER

STATE OF CONNECTICUT – JOSEPH EDWARDS – LICENSED LAND SURVEYOR

2105 & 2125 RESERVOIR AVENUE TRUMBULL, CONNECTICUT

PREPARED FOR

2105-2125 RESERVOIR AVE LLC

REVISIONS

#	DATE	DESCRIPTION
1	6-20-25	CLIENT

DATE: 10-31-24
PROJECT #: 3021
DRAWING FILE:
DRAWN BY: NDC
SCALE: SCALE: 1"=20'

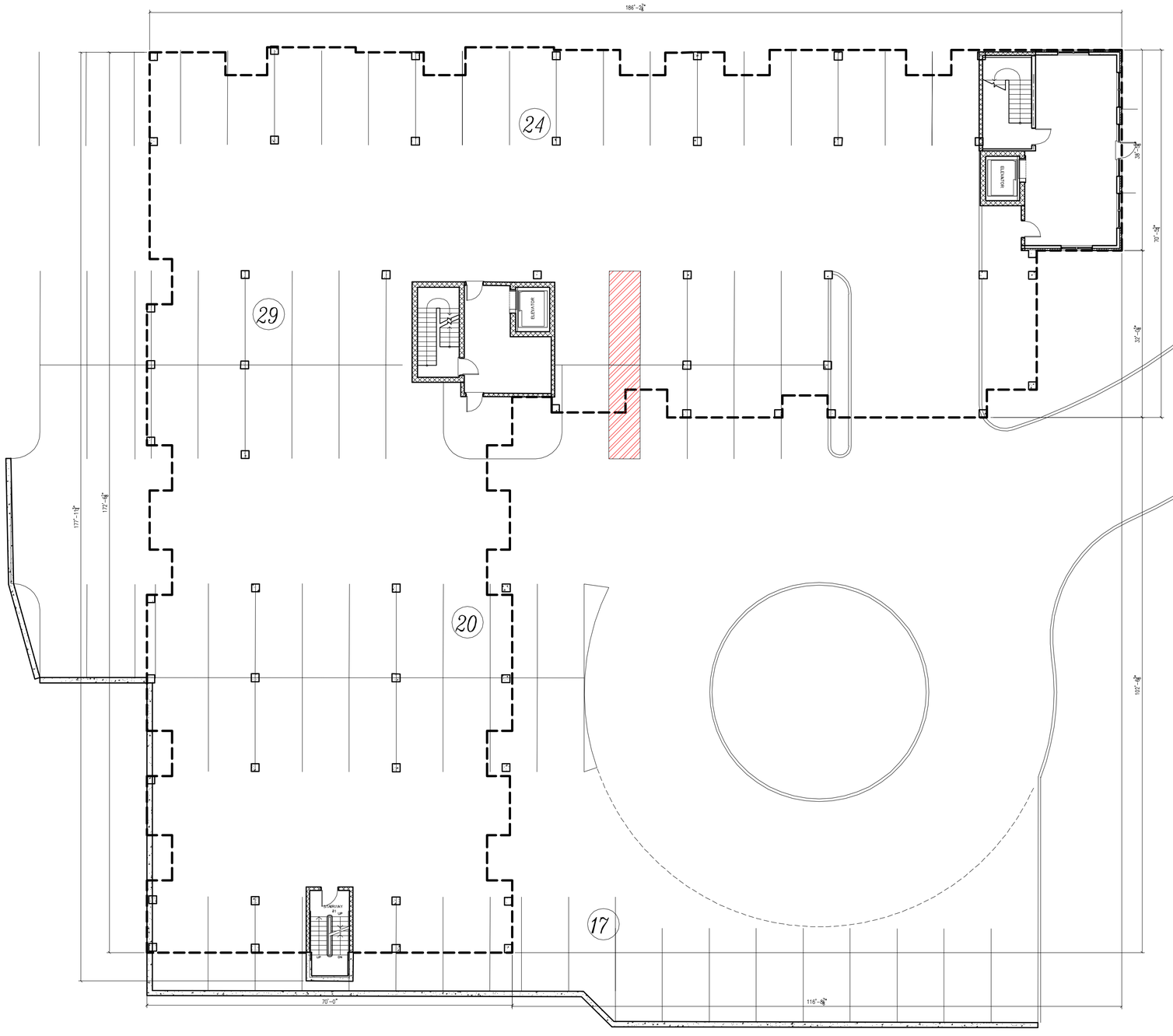
TITLE

SITE PLAN

SHEET NUMBER

2.1

FILE NO. ----



FIRST FLOOR PLAN

SCALE 3/32" = 1'-0"

48 APARTMENTS;
34 ONE BEDROOM
14 TWO BEDROOM

EXISTING HOME TO REMAIN

revisions

1	2	3	4	5	6

GUEDES ASSOCIATES, INC.
Designers , Architects & Project Managers
1425 Noble Avenue, Bpt., CT. 06610
Tel. 203-367-5180 Fax. 203-367-4961

RESERVOIR APARTMENTS
RESERVOIR AVE
TRUMBULL, CT

date: 12-03-25
drawn: J N GUEDES

scale: AS NOTED
project #:

GARAGE LEVEL PLAN

PRIMROSE COMPANIES

This drawing is the property of the architect, it has been prepared specifically for the owner of this project at this site and is not to be used for any other purpose, location, or owner without written consent of the architect. Method of construction shown on this drawing should be followed exactly. Any deviation without architect's consent or supervision, the architect will not be held responsible for damages.

A-1



SECOND FLOOR PLAN

SCALE 3/32" = 1'-0"

12 ONE BEDROOM
4 TWO BEDROOM

GUEDES ASSOCIATES, INC.
Designers , Architects & Project Managers
1425 Noble Avenue, Bpt., CT. 06610
Tel. 203-367-5180 Fax. 203-367-4961

revisions

1	2	3	4	5	6

RESERVOIR APARTMENTS
RESERVOIR AVE
TRUMBULL, CT

date: 12-03-25
drawn: J N GUEDES
scale: AS NOTED
project #:

SECOND FLOOR PLAN

PRIMROSE COMPANIES

This drawing is the property of the architect, it has been prepared specifically for the owner of this project at this site and is not to be used for any other purpose, location, or owner without written consent of the architect. Method of construction shown on this drawing should be followed exactly. Any deviation without architect's consent or supervision, the architect will not be held responsible for damages.

A-2



THIRD FLOOR PLAN

SCALE 3/32" = 1'-0"

11 ONE BEDROOM
5 TWO BEDROOM

GUEDES ASSOCIATES, INC.
Designers , Architects & Project Managers
1425 Noble Avenue, Bpt., CT. 06610
Tel. 203-367-5180 Fax. 203-367-4961

revisions
1 2 3 4 5 6

RESERVOIR APARTMENTS
RESERVOIR AVE
TRUMBULL, CT

THIRD FLOOR PLAN

date: 12-03-25
drawn: J N GUEDES
scale: AS NOTED
project #:

PRIMROSE COMPANIES

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A-3



FOURTH FLOOR PLAN

SCALE 3/32" = 1'-0"

11 ONE BEDROOM
5 TWO BEDROOM

GUEDES ASSOCIATES, INC.
Designers , Architects & Project Managers
1425 Noble Avenue, Bpt., CT. 06610
Tel. 203-367-5180 Fax. 203-367-4961

revisions
1 2 3 4 5 6

RESERVOIR APARTMENTS
RESERVOIR AVE
TRUMBULL, CT

FOURTH FLOOR PLAN

date: 12-03-25
drawn: J N GUEDES
scale: AS NOTED
project #:

PRIMROSE COMPANIES

This drawing is the property of the architect, it has been prepared specifically for the owner of this project at this site and is not to be used for any other purpose, location, or owner without written consent of the architect. Method of construction shown on this drawing should be followed exactly. Any deviation without architect's consent or supervision, the architect will not be held responsible for damages.

A-4



FRONT ELEVATION

SCALE 1/8" = 1'-0"



RIGHT SIDE ELEVATION PLAN

SCALE 1/8" = 1'-0"

PRIMROSE COMPANIES

This drawing is the property of the architect. It has been prepared specifically for the owner of this project at this site and is not to be used for any other purpose, location, or owner without written consent of the architect. Method of construction shown on this drawing should be followed exactly. Any deviation without architect's consent or supervision, the architect will not be held responsible for damages.

GUEDES ASSOCIATES, INC.
Designers, Architects & Project Managers
1425 Noble Avenue, Bpt., CT. 06610
Tel. 203-367-5180 Fax. 203-367-4961

revisions
1 2 3 4 5 6

RESERVOIR APARTMENTS
RESERVOIR AVE
TRUMBULL, CT

date: 12-03-25
drawn: J N GUEDES
scale: AS NOTED
project #:

FRONT & RIGHT SIDE ELEVATION PLAN

A-6





Trumbull Fire
Marshal's Office
firemarshal@trumbull-ct.gov

Town Hall
5866 Main Street
Trumbull, Connecticut 06611
203-452-5080
Fax: 203-452-5093

December 15, 2025

Planning and Zoning Commission
Attn: Fred Garrity, Chairman
5866 Main Street
Trumbull, CT 06611

RE: Reservoir Avenue LLC, 2105-2125 Reservoir Avenue

Dear Chairman,

I have had the opportunity to meet with and review the proposed project for 2105-2125 Reservoir Avenue. The developer has made the necessary changes to site from the original plan addressing site access safety concerns.

Regards,

Megan Murphy
Trumbull Fire Marshal / Emergency Management Director
Town of Trumbull



Traffic Impact Study

48 Residential Units at 2105 and 2125 Reservoir Avenue

Trumbull, Connecticut

Prepared for:

2105-2125 Reservoir Ave LLC



Prepared by:

KWH Enterprise, LLC

June 2025

Traffic Impact Study
48 Residential Units at 2105 and 2125 Reservoir Avenue
Trumbull, Connecticut

This study examines the traffic impact of a proposed residential development at 2105 and 2125 Reservoir Avenue in Trumbull, Connecticut. Levels of Service (LOS) for traffic flows under 2024 existing and 2028 no-build and build traffic conditions were analyzed to identify any deficiencies in existing and future traffic operations at area intersections. For the purpose of this traffic study, 2028 was assumed to be the year during which the construction will be completed and the residential units will be occupied.

I. Summary

- The residential development is projected to generate 19 and 24 vehicular trips during the respective weekday morning and weekday afternoon peak hours.

- The traffic impact of the project will be limited. All traffic from the development will be adequately and safely accommodated by the existing roadways in the area. After the units are occupied, area intersections will operate at acceptable LOS D or better during the weekday peak hours. The site driveway will operate at favorable LOS A or B during the peak hours.

- Recent-year accident records for the adjacent Reservoir Avenue were reviewed. No abnormal accident patterns were identified.

II. Project Description

The 48-unit residential development will be located on two parcels with an existing house on Reservoir Avenue in Trumbull, Connecticut. One site driveway will be provided for the development. Reservoir Avenue is a two-lane roadway with a posted speed limit of 30 mph.

III. Existing Traffic Conditions

For the evaluation of the quality of traffic operation in the vicinity of the development, the following signalized and unsignalized intersections were analyzed for the study:

- Reservoir Avenue and Route 127 (White Plains Road);
- Reservoir Avenue and Old Town Road; and
- Reservoir Avenue and the future site driveway.

Traffic counts were collected at the two existing intersections in November 2024. Traffic volumes for overall peak hours—7:00 am-8:00 am and 4:00 pm-5:00 pm for a weekday—were identified from these counts. These volumes were seasonally adjusted by a factor of 1.066 to reflect the volumes during the busiest peak summer month of 2024; the monthly adjustment factor was based on CTDOT information that is included in the

Appendices. The peak-hour volumes for the 2024 existing conditions are shown in Figures 1 and 2 of the Appendices.

Capacity Analysis

For the assessment of the quality of traffic flow, intersection capacity analysis was conducted for the existing, future no-build, and future build traffic conditions. Capacity analysis provides an indication of how well roadway facilities serve the traffic demands placed upon them. Synchro 12, a software package that includes the evaluation criteria of the *Highway Capacity Manual, 2000 and 7th Editions*, was used to analyze the intersections.

Level of service (LOS) is the term used to describe the different operating conditions that occur on a given roadway segment or intersection under various traffic conditions. It is a qualitative measure of the effects of a number of factors including roadway geometry, speed, travel delay, freedom to maneuver, and safety. Six levels of service can be defined for each type of facility. Each level of service (LOS) is given a letter designation from A to F, with LOS A representing the best operating conditions and LOS F representing the worst.

Table 1 that follows shows the capacity analysis results for the analyzed intersections under the 2024 existing traffic conditions. All traffic approaches are operating at acceptable LOS C or better during the two peak hours under the existing conditions.

Table 1 Capacity Analyses for Existing Conditions

Intersection	2024 Existing Conditions	
	Weekday Morning Peak Hour	Weekday Afternoon Peak Hour
	LOS	LOS
Reservoir Ave., Office Driveway, and Rt. 127 (White Plains Rd.) (Signalized)		
EB Rt. 127	C	B
WB Rt. 127	B	B
NB Reservoir Ave. Left Turn and Through	C	C
NB Reservoir Ave. Right Turn	B	C
SB Office Driveway	B	C
Intersection	C	B
Reservoir Ave. and Old Town Rd. (Unsignalized)		
NB Reservoir Ave.	A	B
EB Old Town Rd.	A	B
WB Old Town Rd.	A	A
SB Reservoir Ave.	A	B

EB Eastbound
WB Westbound
NB Northbound
SB Southbound
LOS Level of Service

IV. Future Traffic Conditions

For the purpose of this traffic impact study, it was assumed that the proposed residential units will be occupied in 2028.

As a comparison for demonstrating the traffic impact of the project, a 2028 no-build scenario is included in the study. Figures 3 and 4 of the Appendices show the 2028 no-build traffic volumes, which were generated by including the trips for three proposed developments in the area by others (Six Cambridge Drive, 12 Cambridge Drive, and 2225 Reservoir Avenue) and by using an annual traffic growth rate of 0.5 percent, or two percent over four years, between 2024 and 2028. The annual traffic growth rate was recommended by the CTDOT Bureau of Policy and Planning.

Table 2 details the capacity analysis results for the 2028 no-build traffic conditions. All traffic movements will continue to operate at acceptable LOS C or better during the peak hours.

Table 2 Capacity Analyses for No-Build Conditions

Intersection	2028 No-Build Condtions	
	Weekday Morning Peak Hour	Weekday Afternoon Peak Hour
	LOS	LOS
Reservoir Ave., Office Driveway, and Rt. 127 (White Plains Rd.) (Signalized)		
EB Rt. 127	C	C
WB Rt. 127	B	B
NB Reservoir Ave. Left Turn and Through	C	C
NB Reservoir Ave. Right Turn	B	B
SB Office Driveway	B	C
Intersection	C	B
Reservoir Ave. and Old Town Rd. (Unsignalized)		
NB Reservoir Ave.	A	B
EB Old Town Rd.	A	B
WB Old Town Rd.	A	B
SB Reservoir Ave.	A	B

EB Eastbound
WB Westbound
NB Northbound
SB Southbound
LOS Level of Service

Trip Generation

The peak-hour vehicular trips generated by the proposed residential development (Table 3) were estimated using data from ITE (Institute of Transportation Engineers) *Trip Generation Manual, 11th Edition*. The site is projected to generate 19 and 24 vehicular trips during the respective weekday morning and weekday afternoon peak hours.

Table 3 Trip Generation (vph)

Multifamily Housing (Low-Rise) (LU 220) (48 Units)			
	Entry	Exit	Entry & Exit
Weekday Morning Peak Hour of Adjacent Street	5	14	19
Weekday Afternoon Peak Hour of Adjacent Street	15	9	24

vph Vehicles per hour

Table 4 depicts the distribution of the site-generated trips along the area routes. The distribution takes into account the relative traffic volumes of the area roadways and the

development patterns in this part of Trumbull. Traffic volumes for the 2028 build conditions, which combine the no-build volumes and the new site trips, are presented in Figures 6 and 7.

Table 4 Trip Distribution

To / From Route	Entry/Exit
West: Route 127	20%
West: Old Town Road	20%
East: Route 127	20%
East: Old Town Road	20%
South: Reservoir Avenue	20%
Total	100%

Capacity Analysis

Table 5 shows the capacity analysis results for the 2028 build traffic conditions. When compared with the no-build conditions, the only change in LOS is the northbound left lane at the signalized intersection during the weekday morning peak hour, which will change from a C under the no-build conditions to a D under the build conditions. All traffic movements will continue to operate at acceptable LOS D or better during the peak hours under the build conditions. The site driveway on Reservoir Avenue will operate at favorable LOS A or B during the peak hours.

Based on this limited change in LOS between the no-build and build conditions and the favorable LOS at the site driveway, it can be concluded that the traffic impact of development on the area roadways and intersections will be limited. The site traffic will be adequately and safely accommodated by the area roadways.

Table 5 Capacity Analyses for Build Conditions

Intersection	2028 Build Condtions	
	Weekday Morning Peak Hour	Weekday Afternoon Peak Hour
	LOS	LOS
Reservoir Ave., Office Driveway, and Rt. 127 (White Plains Rd.) (Signalized)		
EB Rt. 127	C	C
WB Rt. 127	B	B
NB Reservoir Ave. Left Turn and Through	D	C
NB Reservoir Ave. Right Turn	B	B
SB Office Driveway	B	C
Intersection	C	B
Reservoir Ave. and Old Town Rd. (Unsignalized)		
NB Reservoir Ave.	A	B
EB Old Town Rd.	A	B
WB Old Town Rd.	A	B
SB Reservoir Ave.	A	B
Reservoir Ave. and Site Driveway (Unsignalized)		
NB Reservoir Ave. Left Turn	A	A
NB Reservoir Ave. Through	A	A
EB Site Driveway	B	B

EB Eastbound
WB Westbound
NB Northbound
SB Southbound
LOS Level of Service

V. Traffic Accident Record Summary

Traffic accident records for the adjacent Reservoir Avenue between the Bridgeport town line and Route 15 during 2022-2024 are summarized in Table 6.

One accident was recorded on the segment of the Reservoir Avenue near the development between the town line and Lindeman Drive. Six accidents were recorded near the intersection of Reservoir Avenue and Lindeman Drive. Three accidents occurred on Reservoir Avenue between Lindeman Drive and Route 15.

Based on the numbers and locations of the accidents over the three-year period and the accident categories in the table, no abnormal accident patterns were identified from these records. Because the vehicular trips of the development will be adequately accommodated by the area roadways, it is not expected to adversely affect the safety conditions of the adjacent roadways.

Table 6 Accident Record Summary

Location	Reservoir Avenue between Bridgeport Town Line and Lindeman Drive	Reservoir Avenue at Lindemand Drive	Reservoir Avenue between Lindeman Drive and Route 15
Year			
2022		1	1
2023		3	1
2024	1	2	1
Total	**1**	**6**	**3**
Accident Severity			
Fatality			
Injury		3	2
Property Damage Only	1	3	1
Total	**1**	**6**	**3**
Type of Collision			
Sideswipe-Opposite Direction	1		
Angle		3	2
Front to Rear		2	1
Pedestrian		1	
Total	**1**	**6**	**3**

Source: Connecticut Crash Data Repository

VI. Conclusions

Area traffic operation was analyzed for a residential development at 2105 and 2125 Reservoir Avenue under the 2024 existing and the 2028 no-build and build traffic conditions. Traffic generated by the site will be adequately and safely accommodated by the adjacent roadways and intersections. The traffic impact of the development will be limited.

Kermit Hua

Kermit Hua, PE, PTOE
Principal
KWH Enterprise, LLC
(203) 606-3525
kermit.hua@kwhenterprise.com

Technical Appendices

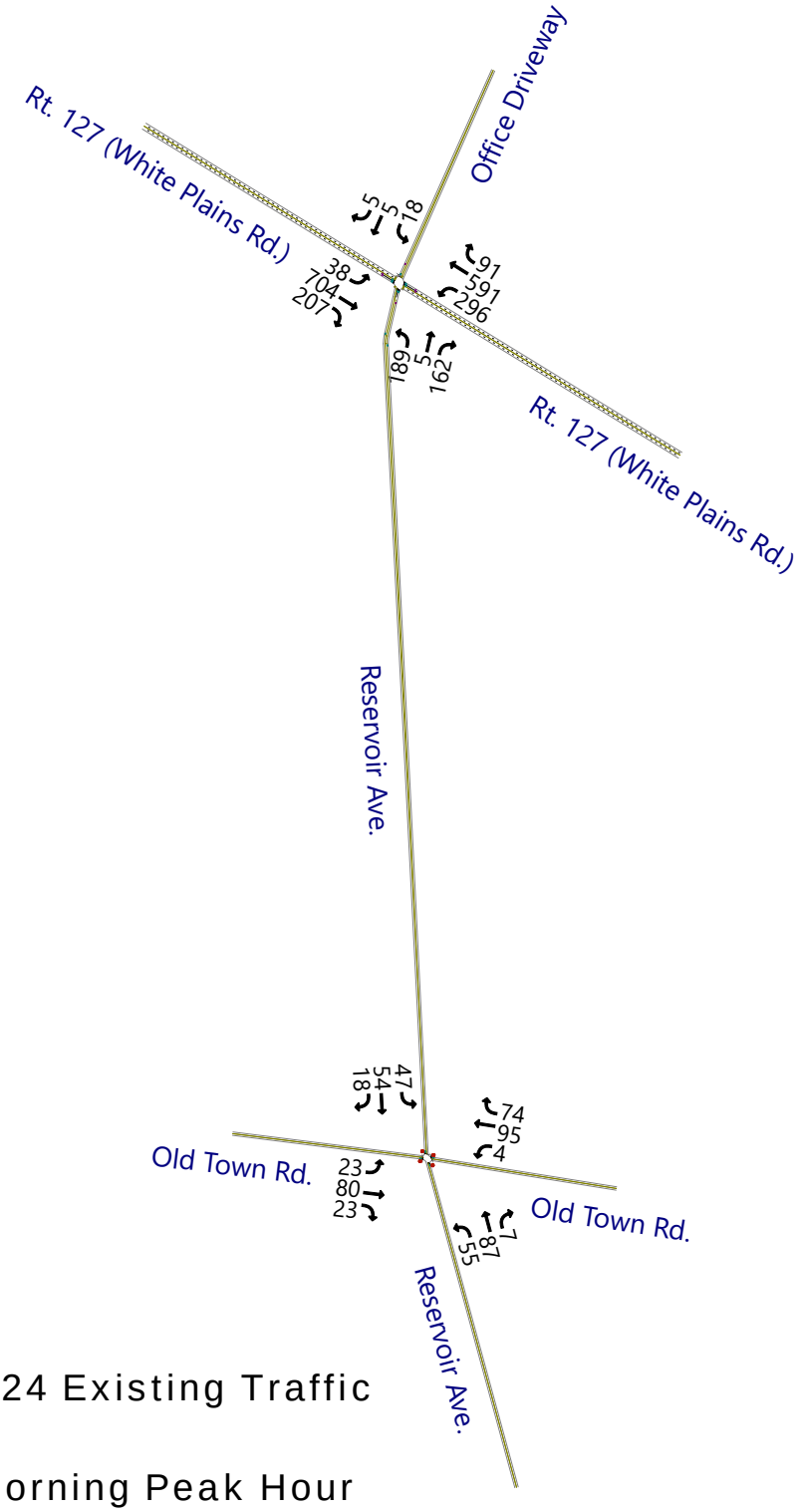


Figure 1 2024 Existing Traffic Volumes
Weekday Morning Peak Hour of Adjacent Streets

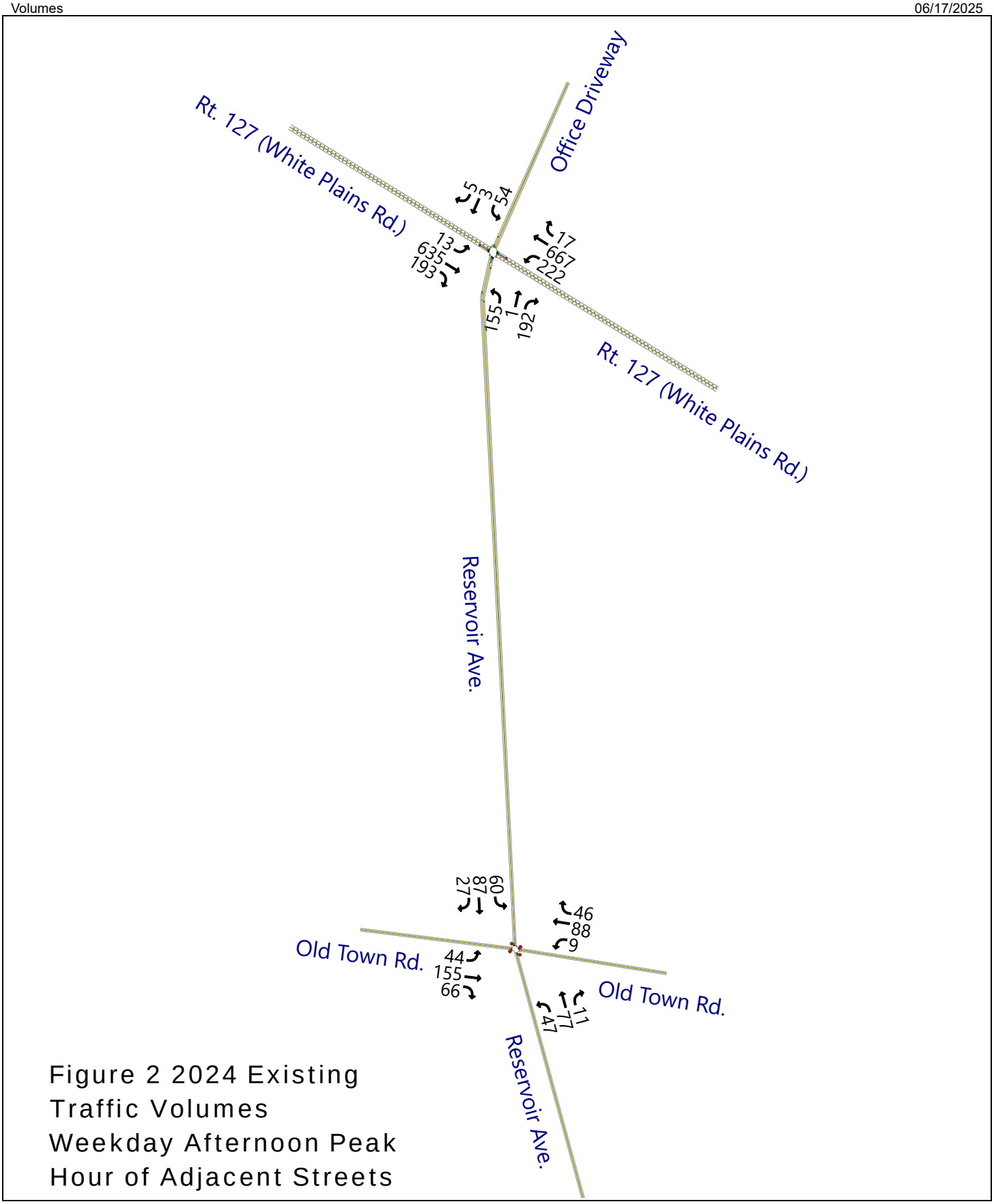


Figure 2 2024 Existing Traffic Volumes Weekday Afternoon Peak Hour of Adjacent Streets

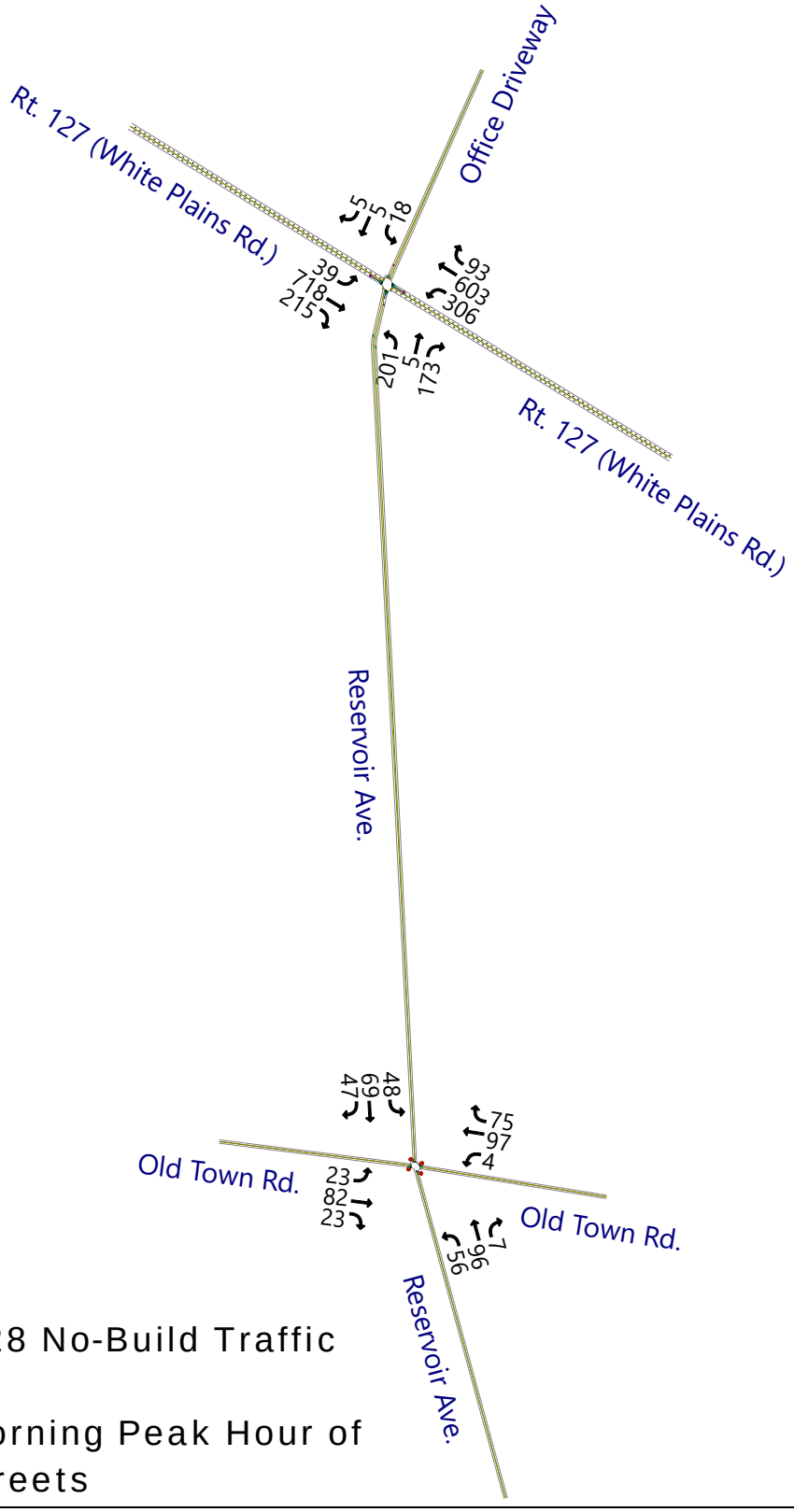


Figure 3 2028 No-Build Traffic Volumes
Weekday Morning Peak Hour of Adjacent Streets

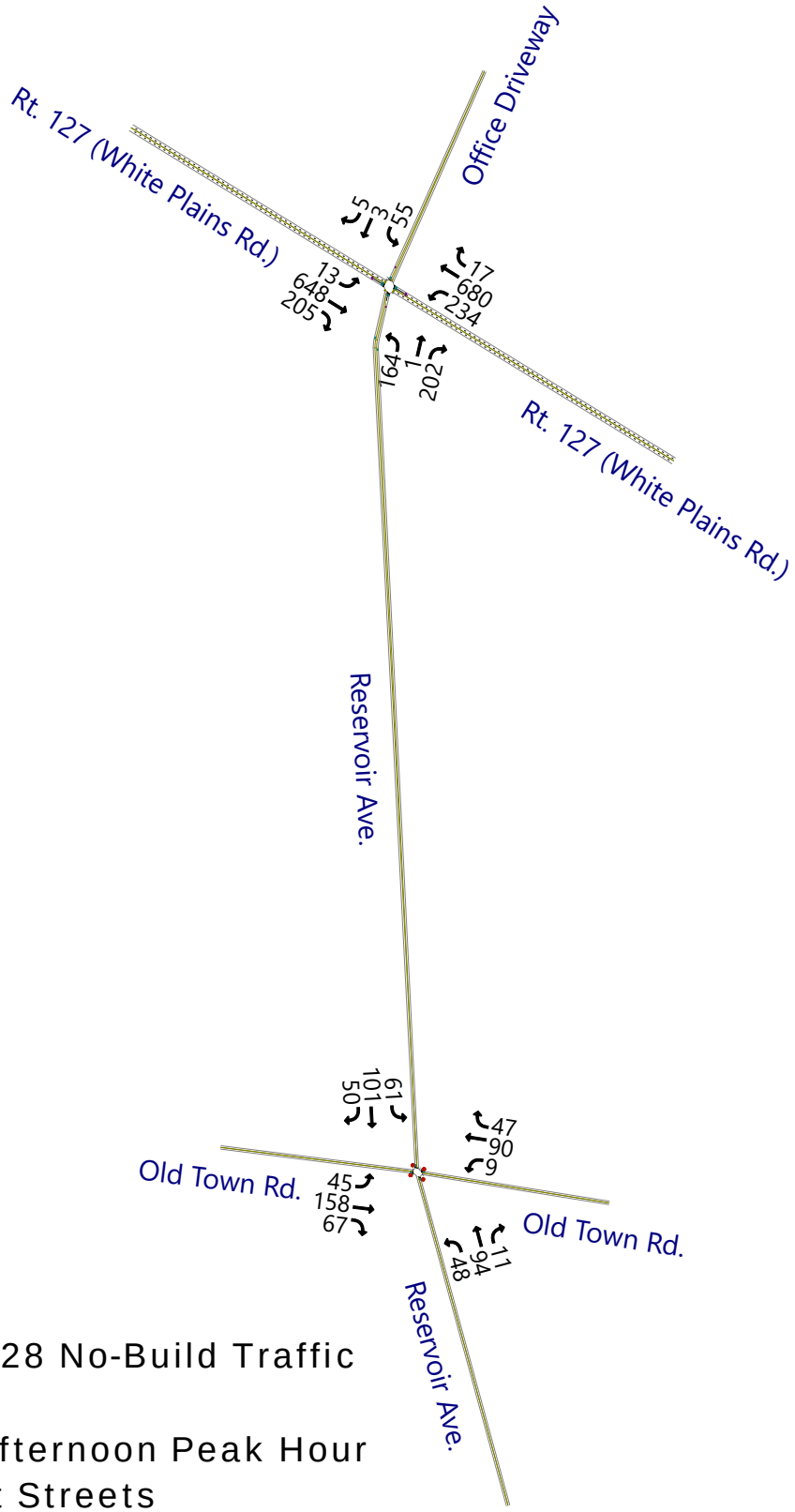


Figure 4 2028 No-Build Traffic Volumes
Weekday Afternoon Peak Hour of Adjacent Streets

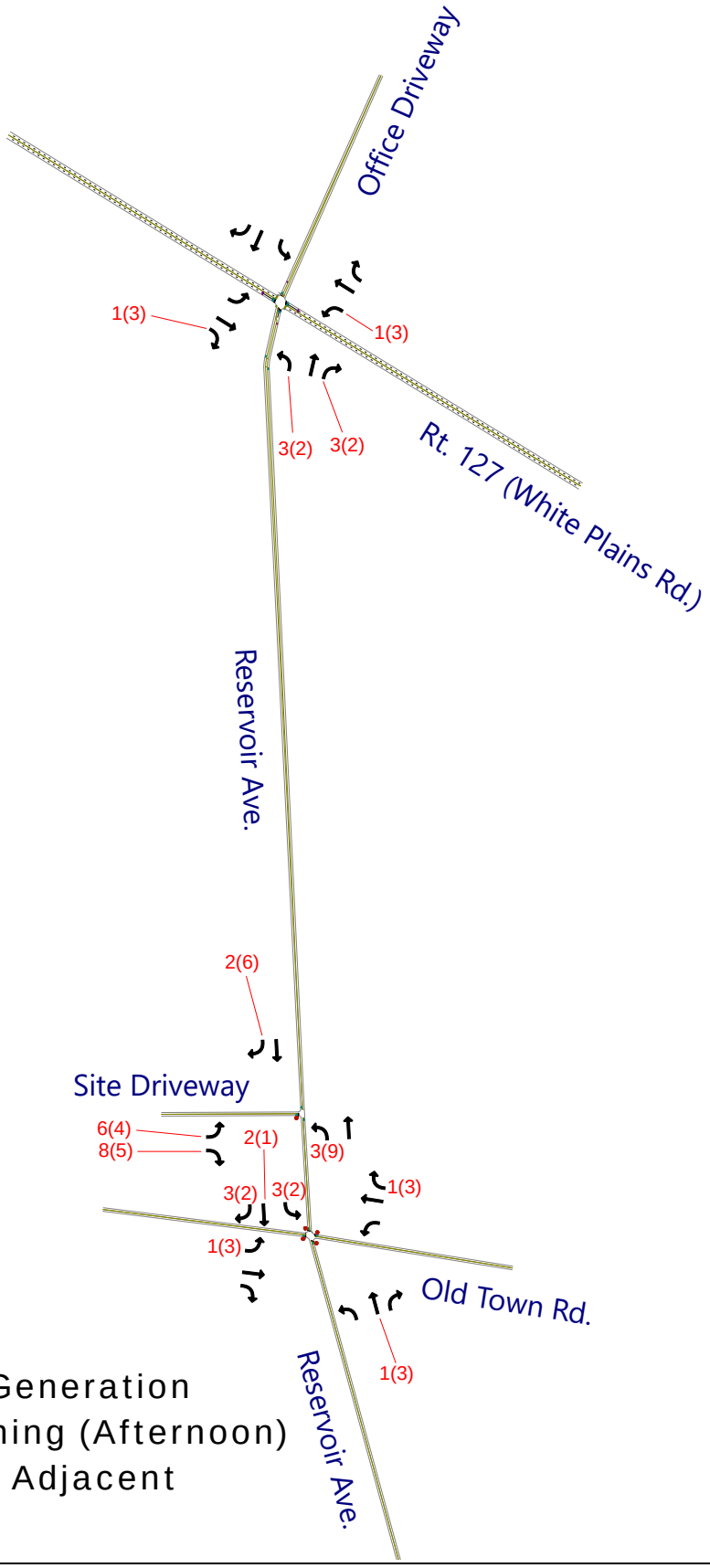


Figure 5 Trip Generation
Weekday Morning (Afternoon)
Peak Hours of Adjacent
Streets

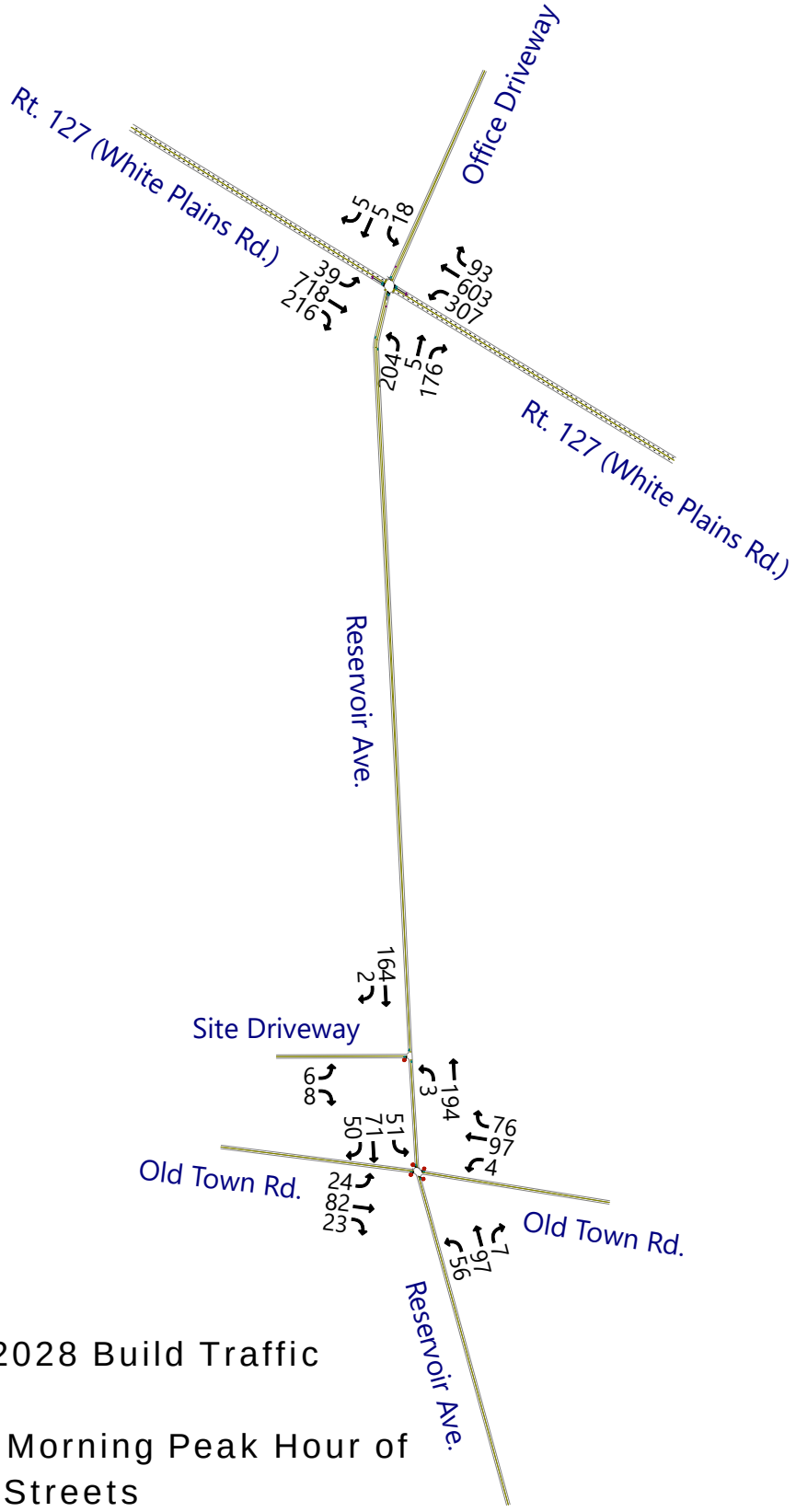


Figure 6 2028 Build Traffic Volumes
Weekday Morning Peak Hour of Adjacent Streets

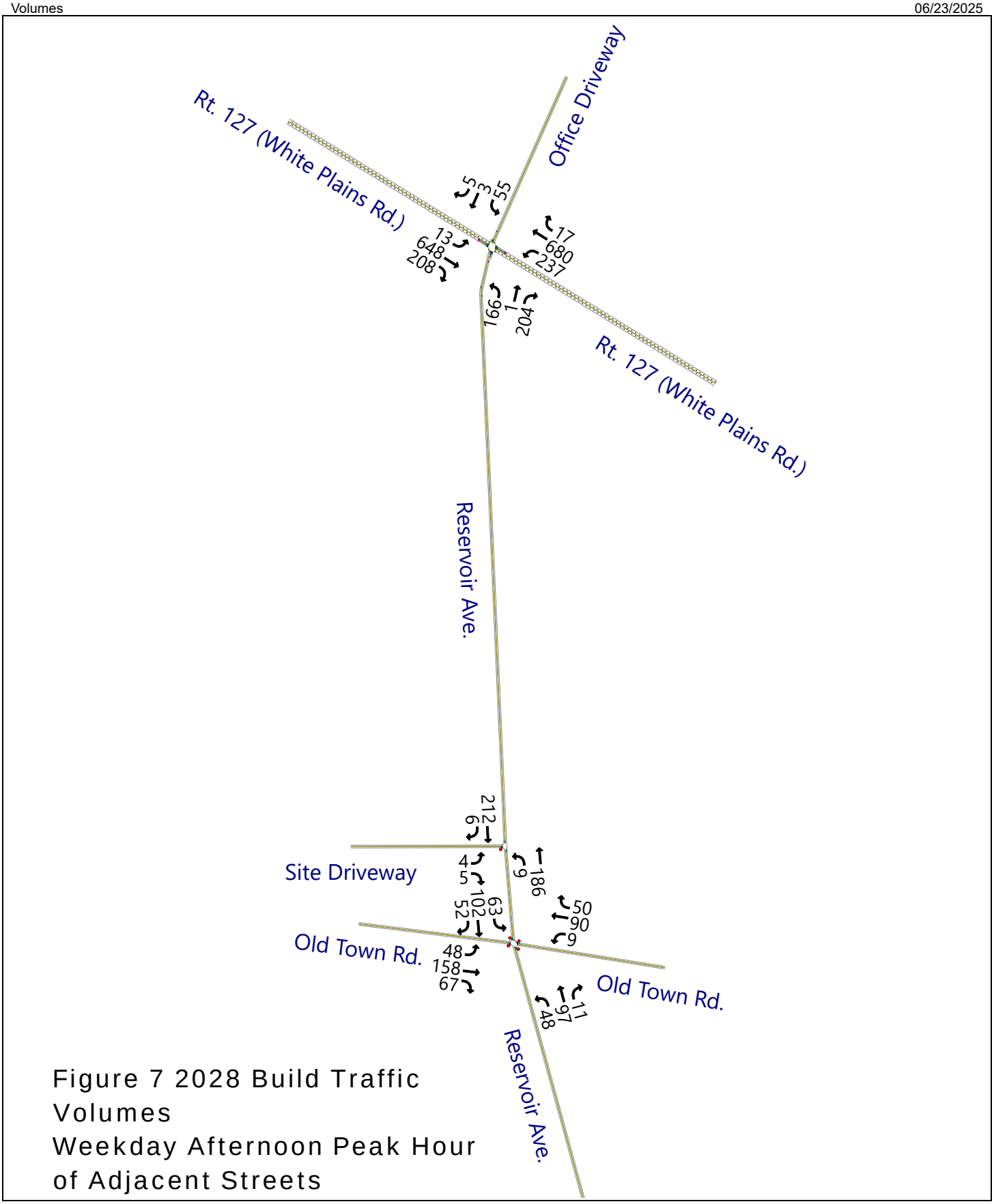


Figure 7 2028 Build Traffic Volumes
Weekday Afternoon Peak Hour of Adjacent Streets

CONNECTICUT DEPARTMENT OF TRANSPORTATION
BUREAU OF POLICY & PLANNING - ROADWAY INFORMATION SYSTEMS
TRAFFIC DATA COLLECTION & VERIFICATION SECTION

FACTORS FOR EXPANDING 24-HOUR COUNTS TO
ANNUAL AVERAGE DAILY TRAFFIC VOLUMES
(BASED ON 2018 CONTINUOUS COUNT STATION DATA)

GROUP - 1 * * INTERSTATE * *

STATION(S): 7, 12, 24, 30, 31, 32, 53, 54

AVG.	WEEKDAY	FRIDAY	SATURDAY	SUNDAY
JANUARY	1.08	1.03	1.21	1.41
FEBRUARY	1.04	0.96	1.13	1.45
MARCH	1.05	0.93	1.05	1.21
APRIL	0.99	0.91	1.03	1.17
MAY	0.94	0.83	0.98	1.10
JUNE	0.95	0.90	0.99	1.08
JULY	0.95	0.91	0.97	1.08
AUGUST	0.94	0.86	0.99	1.06
SEPTEMBER	0.99	0.89	0.99	1.08
OCTOBER	0.98	0.90	1.00	1.12
NOVEMBER	0.98	0.98	1.03	1.13
DECEMBER	1.00	0.96	1.04	1.22

GROUP - 2 * * RURAL * *

STATION(S): 4, 10, 16, 20, 50, 51

AVG.	WEEKDAY	FRIDAY	SATURDAY	SUNDAY
JANUARY	1.12	1.08	1.17	1.48
FEBRUARY	1.12	1.05	1.16	1.55
MARCH	1.08	1.04	1.06	1.32
APRIL	1.05	0.95	0.94	1.29
MAY	0.95	0.89	0.95	1.04
JUNE	0.91	0.80	0.87	0.95
JULY	0.93	0.84	0.87	0.98
AUGUST	0.89	0.83	0.90	0.93
SEPTEMBER	0.97	0.88	0.91	1.02
OCTOBER	0.98	0.88	0.97	1.08
NOVEMBER	1.00	1.02	1.09	1.21
DECEMBER	1.08	1.09	1.11	1.29

GROUP - 3 * * INTERSTATE * *

STATION(S): 27 (I-84 FROM ROUTE 195 TO MASS. STATE LINE)

AVG.	WEEKDAY	FRIDAY	SATURDAY	SUNDAY
JANUARY	1.02	1.10	1.25	0.99
FEBRUARY	0.86	0.81	1.02	1.22
MARCH	1.46	0.91	0.94	0.93
APRIL	1.22	0.96	1.00	1.00
MAY	1.07	0.73	0.99	0.90
JUNE	1.04	0.84	0.96	0.71
JULY	0.98	0.84	0.80	0.74
AUGUST	0.81	0.75	0.89	0.79
SEPTEMBER	1.11	1.09	1.13	0.81
OCTOBER	1.04	1.06	1.30	0.99
NOVEMBER	1.26	1.24	1.15	0.64
DECEMBER	1.14	0.33	0.43	0.79

CONNECTICUT DEPARTMENT OF TRANSPORTATION
BUREAU OF POLICY & PLANNING - ROADWAY INFORMATION SYSTEMS
TRAFFIC MONITORING & DATA ANALYSIS SECTION

FACTORS FOR EXPANDING 24-HOUR COUNTS TO
ANNUAL AVERAGE DAILY TRAFFIC VOLUMES
(BASED ON 2018 CONTINUOUS COUNT STATION DATA)

GROUP - 4 * * URBAN * *

STATION(S): 8, 9, 11, 15, 17, 22, 23, 28, 47, 48, 52

AVG.	WEEKDAY	FRIDAY	SATURDAY	SUNDAY
JANUARY	1.03	1.00	1.18	1.46
FEBRUARY	1.03	0.95	1.14	1.49
MARCH	0.97	0.94	1.07	1.30
APRIL	0.98	0.90	1.03	1.26
MAY	0.92	0.83	1.01	1.21
JUNE	0.91	0.85	1.01	1.15
JULY	0.95	0.89	1.06	1.22
AUGUST	0.95	0.89	1.09	1.23
SEPTEMBER	0.96	0.88	1.03	1.20
OCTOBER	0.95	0.86	1.05	1.16
NOVEMBER	0.97	0.97	1.08	1.27
DECEMBER	0.99	0.96	1.06	1.24

GROUP - 5 * *NORTHWEST RECREATIONAL * *

STATION(S): 1 (Station 18 not available on 2018)

AVG.	WEEKDAY	FRIDAY	SATURDAY	SUNDAY
JANUARY	1.29	1.18	1.05	1.21
FEBRUARY	1.24	1.10	1.02	1.34
MARCH	1.28	1.06	1.14	1.24
APRIL	1.04	0.88	0.96	0.85
MAY	1.00	0.83	0.78	0.80
JUNE	0.96	0.80	0.79	0.77
JULY	0.91	0.80	0.71	0.61
AUGUST	0.94	0.75	0.76	0.71
SEPTEMBER	0.99	0.85	0.69	0.73
OCTOBER	0.95	0.71	0.69	0.68
NOVEMBER	1.15	1.05	1.08	1.06
DECEMBER	1.13	1.11	1.09	1.25

GROUP - 6 * * SOUTHEAST RECREATIONAL * *

STATION(S): 5, 33, 44, 46

AVG.	WEEKDAY	FRIDAY	SATURDAY	SUNDAY
JANUARY	1.24	1.08	1.05	1.22
FEBRUARY	1.17	1.00	0.98	1.21
MARCH	1.19	0.98	0.93	1.06
APRIL	1.13	0.91	0.86	1.00
MAY	1.04	0.85	0.84	0.92
JUNE	1.00	0.80	0.81	0.88
JULY	0.91	0.77	0.75	0.79
AUGUST	0.92	0.75	0.77	0.80
SEPTEMBER	1.07	0.89	0.84	0.92
OCTOBER	1.10	0.89	0.93	0.98
NOVEMBER	1.17	0.97	0.93	1.04
DECEMBER	1.16	1.00	0.97	1.15

Land Use: 220
Multifamily Housing (Low-Rise)

Description

Low-rise multifamily housing includes apartments, townhouses, and condominiums located within the same building with at least three other dwelling units and that have two or three floors (levels). Various configurations fit this description, including walkup apartment, mansion apartment, and stacked townhouse.

- A walkup apartment typically is two or three floors in height with dwelling units that are accessed by a single or multiple entrances with stairways and hallways.
- A mansion apartment is a single structure that contains several apartments within what appears to be a single-family dwelling unit.
- A fourplex is a single two-story structure with two matching dwelling units on the ground and second floors. Access to the individual units is typically internal to the structure and provided through a central entry and stairway.
- A stacked townhouse is designed to match the external appearance of a townhouse. But, unlike a townhouse dwelling unit that only shares walls with an adjoining unit, the stacked townhouse units share both floors and walls. Access to the individual units is typically internal to the structure and provided through a central entry and stairway.

Multifamily housing (mid-rise) (Land Use 221), multifamily housing (high-rise) (Land Use 222), affordable housing (Land Use 223), and off-campus student apartment (low-rise) (Land Use 225) are related land uses.

Land Use Subcategory

Data are presented for two subcategories for this land use: (1) not close to rail transit and (2) close to rail transit. A site is considered close to rail transit if the walking distance between the residential site entrance and the closest rail transit station entrance is ½ mile or less.

Additional Data

For the three sites for which both the number of residents and the number of occupied dwelling units were available, there were an average of 2.72 residents per occupied dwelling unit.

For the two sites for which the numbers of both total dwelling units and occupied dwelling units were available, an average of 96.2 percent of the total dwelling units were occupied.

The technical appendices provide supporting information on time-of-day distributions for this land use. The appendices can be accessed through either the ITETripGen web app or the trip

generation resource page on the ITE website (https://www.ite.org/technical-resources/topics/trip-and-parking-generation/).

For the three sites for which data were provided for both occupied dwelling units and residents, there was an average of 2.72 residents per occupied dwelling unit.

It is expected that the number of bedrooms and number of residents are likely correlated to the trips generated by a residential site. To assist in future analysis, trip generation studies of all multifamily housing should attempt to obtain information on occupancy rate and on the mix of residential unit sizes (i.e., number of units by number of bedrooms at the site complex).

The sites were surveyed in the 1980s, the 1990s, the 2000s, the 2010s, and the 2020s in British Columbia (CAN), California, Delaware, Florida, Georgia, Illinois, Indiana, Maine, Maryland, Massachusetts, Minnesota, New Jersey, Ontario (CAN), Oregon, Pennsylvania, South Carolina, South Dakota, Tennessee, Texas, Utah, and Washington.

Source Numbers

188, 204, 237, 300, 305, 306, 320, 321, 357, 390, 412, 525, 530, 579, 583, 638, 864, 866, 896, 901, 903, 904, 936, 939, 944, 946, 947, 948, 963, 964, 966, 967, 1012, 1013, 1014, 1036, 1047, 1056, 1071, 1076

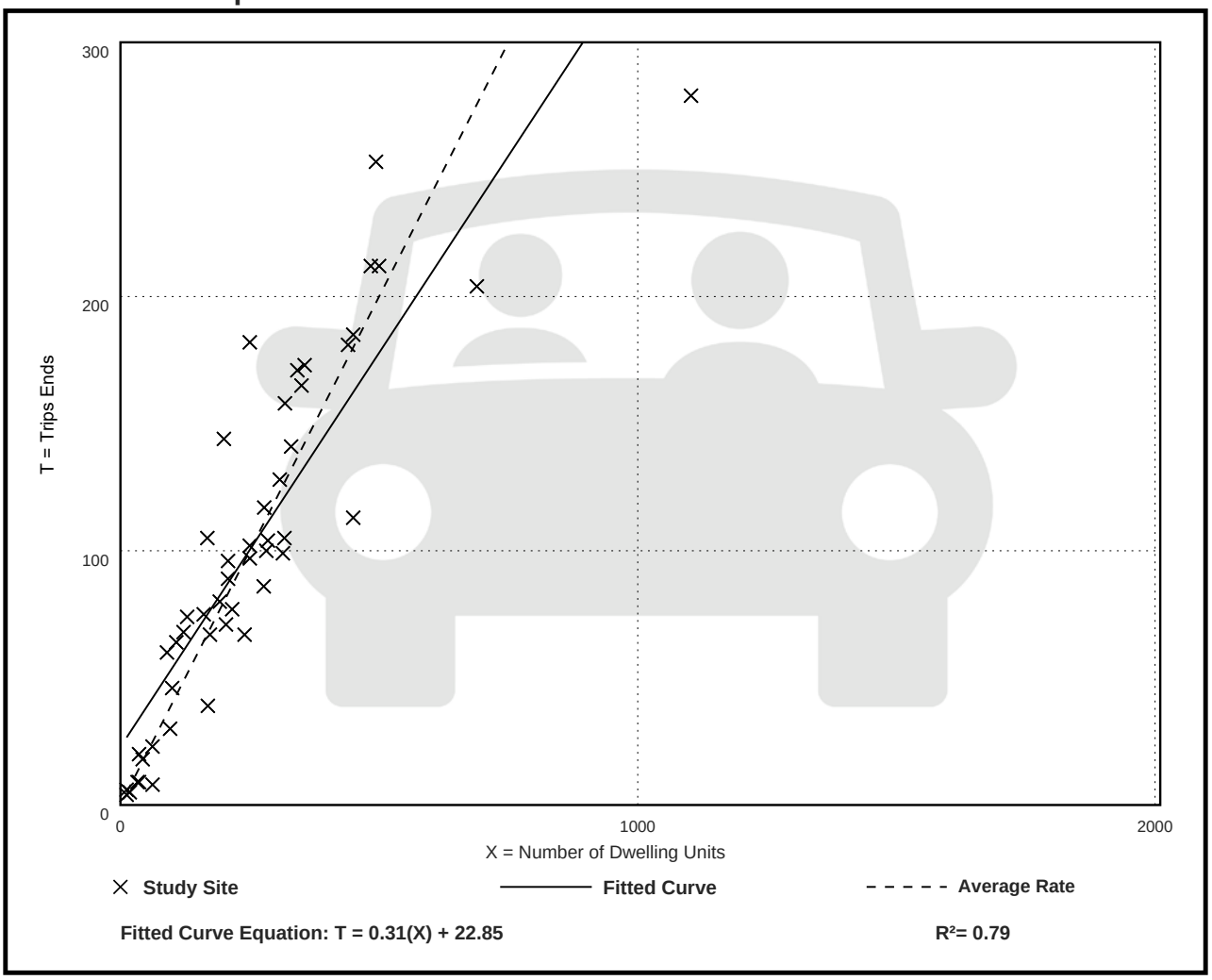
Multifamily Housing (Low-Rise)
Not Close to Rail Transit (220)

Vehicle Trip Ends vs: Dwelling Units
On a: Weekday,
Peak Hour of Adjacent Street Traffic,
One Hour Between 7 and 9 a.m.
Setting/Location: General Urban/Suburban
Number of Studies: 49
Avg. Num. of Dwelling Units: 249
Directional Distribution: 24% entering, 76% exiting

Vehicle Trip Generation per Dwelling Unit

Average Rate	Range of Rates	Standard Deviation
0.40	0.13 - 0.73	0.12

Data Plot and Equation



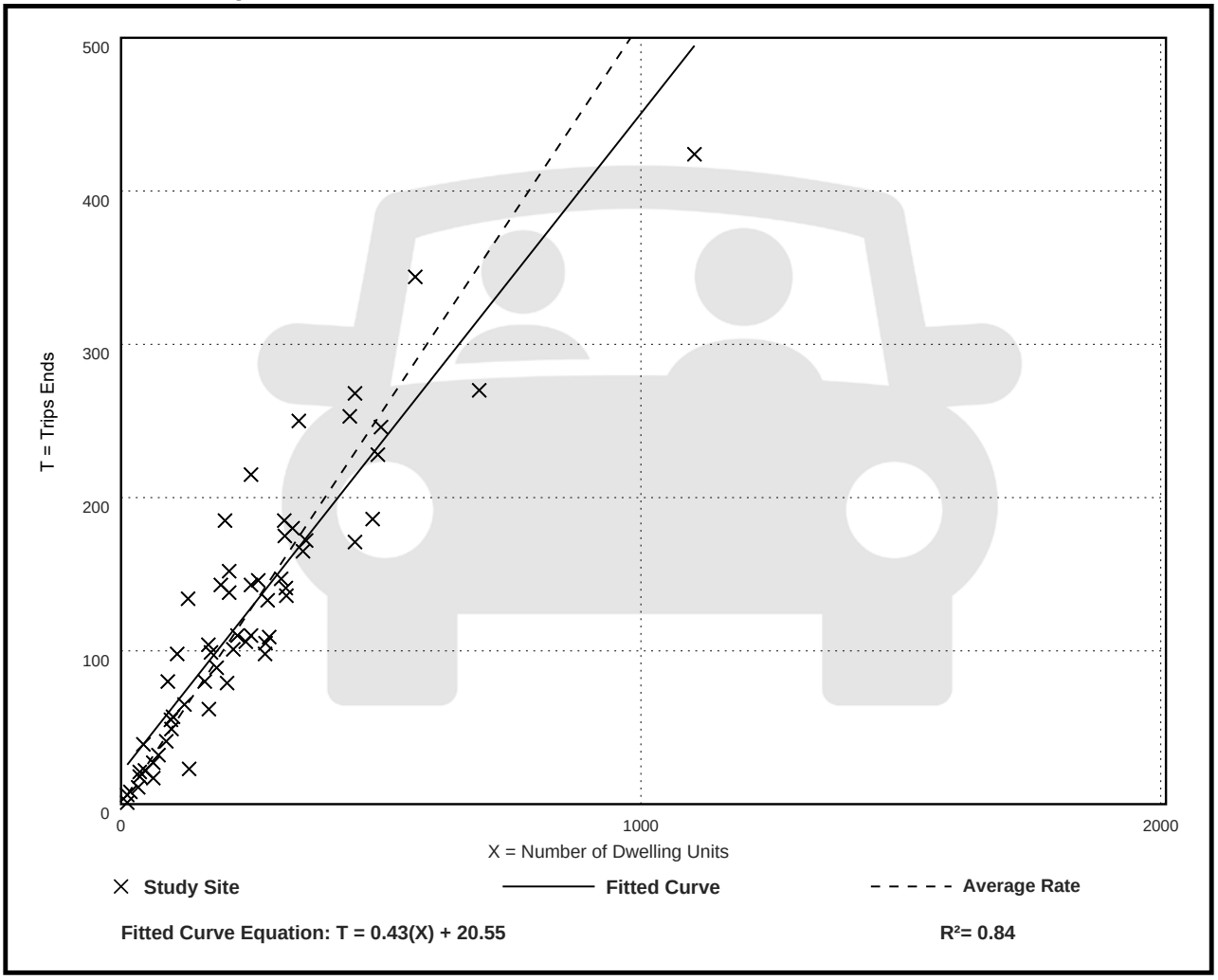
Multifamily Housing (Low-Rise)
Not Close to Rail Transit (220)

Vehicle Trip Ends vs: Dwelling Units
On a: Weekday,
Peak Hour of Adjacent Street Traffic,
One Hour Between 4 and 6 p.m.
Setting/Location: General Urban/Suburban
Number of Studies: 59
Avg. Num. of Dwelling Units: 241
Directional Distribution: 63% entering, 37% exiting

Vehicle Trip Generation per Dwelling Unit

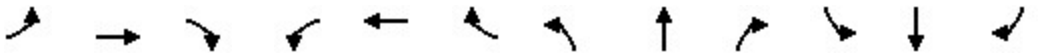
Average Rate	Range of Rates	Standard Deviation
0.51	0.08 - 1.04	0.15

Data Plot and Equation



Fitted Curve Equation: T = 0.43(X) + 20.55

R^2= 0.84



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	38	704	207	296	591	91	189	5	162	18	5	5
Future Volume (vph)	38	704	207	296	591	91	189	5	162	18	5	5
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		7.1			4.0			4.0	4.0		4.0	
Lane Util. Factor		0.95			0.95			1.00	1.00		1.00	
Frt		0.97			0.99			1.00	0.85		0.98	
Flt Protected		1.00			0.99			0.95	1.00		0.97	
Satd. Flow (prot)		3384			3404			1759	1568		1745	
Flt Permitted		0.86			0.55			0.71	1.00		0.79	
Satd. Flow (perm)		2903			1901			1310	1568		1425	
Peak-hour factor, PHF	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Adj. Flow (vph)	40	749	220	315	629	97	201	5	172	19	5	5
RTOR Reduction (vph)	0	43	0	0	14	0	0	0	136	0	4	0
Lane Group Flow (vph)	0	966	0	0	1027	0	0	206	36	0	25	0
Heavy Vehicles (%)	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%
Turn Type	Perm	NA		D.P+P	NA		Perm	NA	Perm	Perm	NA	
Protected Phases		2		1	1 2			4			4	
Permitted Phases	2			2			4		4	4		
Actuated Green, G (s)		22.9			32.3			12.6	12.6		12.6	
Effective Green, g (s)		22.9			32.3			12.6	12.6		12.6	
Actuated g/C Ratio		0.38			0.54			0.21	0.21		0.21	
Clearance Time (s)		7.1						4.0	4.0		4.0	
Vehicle Extension (s)		3.0						3.0	3.0		3.0	
Lane Grp Cap (vph)		1107			1258			275	329		299	
v/s Ratio Prot					c0.13							
v/s Ratio Perm		c0.33			0.31			c0.16	0.02		0.02	
v/c Ratio		0.87			0.82			0.75	0.11		0.08	
Uniform Delay, d1		17.2			11.4			22.2	19.2		19.1	
Progression Factor		1.00			1.00			1.00	1.00		1.00	
Incremental Delay, d2		9.6			5.9			10.6	0.1		0.1	
Delay (s)		26.8			17.3			32.9	19.3		19.2	
Level of Service		C			B			C	B		B	
Approach Delay (s/veh)		26.8			17.3			26.7			19.2	
Approach LOS		C			B			C			B	

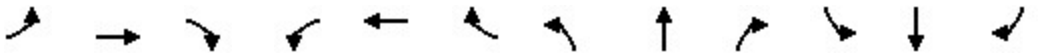
Intersection Summary			
HCM 2000 Control Delay (s/veh)	22.7	HCM 2000 Level of Service	C
HCM 2000 Volume to Capacity ratio	0.83		
Actuated Cycle Length (s)	60.0	Sum of lost time (s)	15.1
Intersection Capacity Utilization	82.5%	ICU Level of Service	E
Analysis Period (min)	15		
c Critical Lane Group			

Intersection	
Intersection Delay, s/veh	9.3
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	23	80	23	4	95	74	55	87	7	47	54	18
Future Vol, veh/h	23	80	23	4	95	74	55	87	7	47	54	18
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Heavy Vehicles, %	7	7	7	7	7	7	7	7	7	7	7	7
Mvmt Flow	26	89	26	4	106	82	61	97	8	52	60	20
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay, s/veh	9.2	9.3	9.6	9.2
HCM LOS	A	A	A	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	37%	18%	2%	39%
Vol Thru, %	58%	63%	55%	45%
Vol Right, %	5%	18%	43%	15%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	149	126	173	119
LT Vol	55	23	4	47
Through Vol	87	80	95	54
RT Vol	7	23	74	18
Lane Flow Rate	166	140	192	132
Geometry Grp	1	1	1	1
Degree of Util (X)	0.231	0.192	0.251	0.184
Departure Headway (Hd)	5.033	4.931	4.693	5.022
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	709	722	761	709
Service Time	3.099	2.995	2.752	3.091
HCM Lane V/C Ratio	0.234	0.194	0.252	0.186
HCM Control Delay, s/veh	9.6	9.2	9.3	9.2
HCM Lane LOS	A	A	A	A
HCM 95th-tile Q	0.9	0.7	1	0.7



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	13	635	193	222	667	17	155	1	192	54	3	5
Future Volume (vph)	13	635	193	222	667	17	155	1	192	54	3	5
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		7.1			4.0			4.0	4.0		4.0	
Lane Util. Factor		0.95			0.95			1.00	1.00		1.00	
Frt		0.97			1.00			1.00	0.85		0.99	
Flt Protected		1.00			0.99			0.95	1.00		0.96	
Satd. Flow (prot)		3483			3556			1810	1615		1800	
Flt Permitted		0.93			0.56			0.74	1.00		0.65	
Satd. Flow (perm)		3226			1998			1407	1615		1218	
Peak-hour factor, PHF	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
Adj. Flow (vph)	15	713	217	249	749	19	174	1	216	61	3	6
RTOR Reduction (vph)	0	46	0	0	2	0	0	0	174	0	5	0
Lane Group Flow (vph)	0	899	0	0	1015	0	0	175	42	0	65	0
Heavy Vehicles (%)	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Turn Type	Perm	NA		D.P+P	NA		Perm	NA	Perm	Perm	NA	
Protected Phases		2		1	1 2			4			4	
Permitted Phases	2			2			4		4	4		
Actuated Green, G (s)		22.9			33.2			11.7	11.7		11.7	
Effective Green, g (s)		22.9			33.2			11.7	11.7		11.7	
Actuated g/C Ratio		0.38			0.55			0.19	0.19		0.19	
Clearance Time (s)		7.1						4.0	4.0		4.0	
Vehicle Extension (s)		3.0						3.0	3.0		3.0	
Lane Grp Cap (vph)		1231			1373			274	314		237	
v/s Ratio Prot					c0.13							
v/s Ratio Perm		0.28			c0.28			c0.12	0.03		0.05	
v/c Ratio		0.73			0.74			0.64	0.13		0.27	
Uniform Delay, d1		15.9			10.1			22.2	20.0		20.5	
Progression Factor		1.00			1.00			1.00	1.00		1.00	
Incremental Delay, d2		3.8			3.6			4.8	0.2		0.6	
Delay (s)		19.7			13.7			27.0	20.2		21.2	
Level of Service		B			B			C	C		C	
Approach Delay (s/veh)		19.7			13.7			23.2			21.2	
Approach LOS		B			B			C			C	

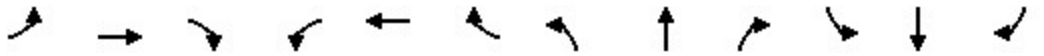
Intersection Summary			
HCM 2000 Control Delay (s/veh)	17.8	HCM 2000 Level of Service	B
HCM 2000 Volume to Capacity ratio	0.71		
Actuated Cycle Length (s)	60.0	Sum of lost time (s)	15.1
Intersection Capacity Utilization	72.2%	ICU Level of Service	C
Analysis Period (min)	15		
c Critical Lane Group			

Intersection	
Intersection Delay, s/veh	10.9
Intersection LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	44	155	66	9	88	46	47	77	11	60	87	27
Future Vol, veh/h	44	155	66	9	88	46	47	77	11	60	87	27
Peak Hour Factor	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
Heavy Vehicles, %	5	5	5	5	5	5	5	5	5	5	5	5
Mvmt Flow	50	176	75	10	100	52	53	88	13	68	99	31
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay, s/veh	11.9	9.9	10.3	10.8
HCM LOS	B	A	B	B

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	35%	17%	6%	34%
Vol Thru, %	57%	58%	62%	50%
Vol Right, %	8%	25%	32%	16%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	135	265	143	174
LT Vol	47	44	9	60
Through Vol	77	155	88	87
RT Vol	11	66	46	27
Lane Flow Rate	153	301	163	198
Geometry Grp	1	1	1	1
Degree of Util (X)	0.237	0.427	0.237	0.299
Departure Headway (Hd)	5.566	5.109	5.254	5.447
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	644	705	683	660
Service Time	3.604	3.139	3.289	3.482
HCM Lane V/C Ratio	0.238	0.427	0.239	0.3
HCM Control Delay, s/veh	10.3	11.9	9.9	10.8
HCM Lane LOS	B	B	A	B
HCM 95th-tile Q	0.9	2.1	0.9	1.3



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	39	718	215	306	603	93	201	5	173	18	5	5
Future Volume (vph)	39	718	215	306	603	93	201	5	173	18	5	5
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		7.1			4.0			4.0	4.0		4.0	
Lane Util. Factor		0.95			0.95			1.00	1.00		1.00	
Frt		0.97			0.99			1.00	0.85		0.98	
Flt Protected		1.00			0.98			0.95	1.00		0.97	
Satd. Flow (prot)		3382			3404			1759	1568		1745	
Flt Permitted		0.85			0.55			0.71	1.00		0.79	
Satd. Flow (perm)		2888			1907			1309	1568		1421	
Peak-hour factor, PHF	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Adj. Flow (vph)	41	764	229	326	641	99	214	5	184	19	5	5
RTOR Reduction (vph)	0	44	0	0	14	0	0	0	144	0	4	0
Lane Group Flow (vph)	0	990	0	0	1052	0	0	219	40	0	25	0
Heavy Vehicles (%)	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%
Turn Type	Perm	NA		D.P+P	NA		Perm	NA	Perm	Perm	NA	
Protected Phases		2		1	1 2			4			4	
Permitted Phases	2			2			4		4	4		
Actuated Green, G (s)		22.9			32.0			12.9	12.9		12.9	
Effective Green, g (s)		22.9			32.0			12.9	12.9		12.9	
Actuated g/C Ratio		0.38			0.53			0.22	0.22		0.22	
Clearance Time (s)		7.1						4.0	4.0		4.0	
Vehicle Extension (s)		3.0						3.0	3.0		3.0	
Lane Grp Cap (vph)		1102			1244			281	337		305	
v/s Ratio Prot					c0.13							
v/s Ratio Perm		c0.34			0.32			c0.17	0.03		0.02	
v/c Ratio		0.90			0.85			0.78	0.12		0.08	
Uniform Delay, d1		17.5			11.9			22.2	19.0		18.8	
Progression Factor		1.00			1.00			1.00	1.00		1.00	
Incremental Delay, d2		11.5			7.2			12.8	0.2		0.1	
Delay (s)		29.0			19.1			35.0	19.1		18.9	
Level of Service		C			B			C	B		B	
Approach Delay (s/veh)		29.0			19.1			27.7			18.9	
Approach LOS		C			B			C			B	

Intersection Summary			
HCM 2000 Control Delay (s/veh)	24.5	HCM 2000 Level of Service	C
HCM 2000 Volume to Capacity ratio	0.85		
Actuated Cycle Length (s)	60.0	Sum of lost time (s)	15.1
Intersection Capacity Utilization	84.8%	ICU Level of Service	E
Analysis Period (min)	15		
c Critical Lane Group			

Intersection	
Intersection Delay, s/veh	9.7
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	23	82	23	4	97	75	56	96	7	48	69	47
Future Vol, veh/h	23	82	23	4	97	75	56	96	7	48	69	47
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Heavy Vehicles, %	7	7	7	7	7	7	7	7	7	7	7	7
Mvmt Flow	26	91	26	4	108	83	62	107	8	53	77	52
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay, s/veh	9.5	9.7	10	9.7
HCM LOS	A	A	A	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	35%	18%	2%	29%
Vol Thru, %	60%	64%	55%	42%
Vol Right, %	4%	18%	43%	29%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	159	128	176	164
LT Vol	56	23	4	48
Through Vol	96	82	97	69
RT Vol	7	23	75	47
Lane Flow Rate	177	142	196	182
Geometry Grp	1	1	1	1
Degree of Util (X)	0.252	0.201	0.264	0.252
Departure Headway (Hd)	5.128	5.097	4.854	4.969
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	693	697	733	714
Service Time	3.213	3.186	2.934	3.054
HCM Lane V/C Ratio	0.255	0.204	0.267	0.255
HCM Control Delay, s/veh	10	9.5	9.7	9.7
HCM Lane LOS	A	A	A	A
HCM 95th-tile Q	1	0.7	1.1	1

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	13	648	205	234	680	17	164	1	202	55	3	5
Future Volume (vph)	13	648	205	234	680	17	164	1	202	55	3	5
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		7.1			4.0			4.0	4.0		4.0	
Lane Util. Factor		0.95			0.95			1.00	1.00		1.00	
Frt		0.96			1.00			1.00	0.85		0.99	
Flt Protected		1.00			0.99			0.95	1.00		0.96	
Satd. Flow (prot)		3479			3555			1810	1615		1800	
Flt Permitted		0.93			0.55			0.74	1.00		0.63	
Satd. Flow (perm)		3222			1964			1401	1615		1190	
Peak-hour factor, PHF	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
Adj. Flow (vph)	15	728	230	263	764	19	184	1	227	62	3	6
RTOR Reduction (vph)	0	49	0	0	2	0	0	0	182	0	5	0
Lane Group Flow (vph)	0	924	0	0	1044	0	0	185	45	0	66	0
Heavy Vehicles (%)	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Turn Type	Perm	NA		D.P+P	NA		Perm	NA	Perm	Perm	NA	
Protected Phases		2		1	1 2			4			4	
Permitted Phases	2			2			4		4	4		
Actuated Green, G (s)		22.9			32.9			12.0	12.0		12.0	
Effective Green, g (s)		22.9			32.9			12.0	12.0		12.0	
Actuated g/C Ratio		0.38			0.55			0.20	0.20		0.20	
Clearance Time (s)		7.1						4.0	4.0		4.0	
Vehicle Extension (s)		3.0						3.0	3.0		3.0	
Lane Grp Cap (vph)		1229			1342			280	323		238	
v/s Ratio Prot					c0.13							
v/s Ratio Perm		0.29			c0.30			c0.13	0.03		0.06	
v/c Ratio		0.75			0.78			0.66	0.14		0.28	
Uniform Delay, d1		16.1			10.7			22.1	19.8		20.3	
Progression Factor		1.00			1.00			1.00	1.00		1.00	
Incremental Delay, d2		4.3			4.5			5.7	0.2		0.6	
Delay (s)		20.4			15.2			27.9	20.0		21.0	
Level of Service		C			B			C	B		C	
Approach Delay (s/veh)		20.4			15.2			23.5			21.0	
Approach LOS		C			B			C			C	

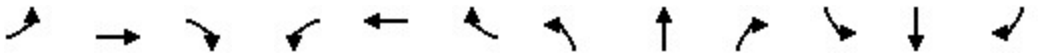
Intersection Summary			
HCM 2000 Control Delay (s/veh)	18.7	HCM 2000 Level of Service	B
HCM 2000 Volume to Capacity ratio	0.75		
Actuated Cycle Length (s)	60.0	Sum of lost time (s)	15.1
Intersection Capacity Utilization	73.7%	ICU Level of Service	D
Analysis Period (min)	15		
c Critical Lane Group			

Intersection	
Intersection Delay, s/veh	11.7
Intersection LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	45	158	67	9	90	47	48	94	11	61	101	50
Future Vol, veh/h	45	158	67	9	90	47	48	94	11	61	101	50
Peak Hour Factor	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
Heavy Vehicles, %	5	5	5	5	5	5	5	5	5	5	5	5
Mvmt Flow	51	180	76	10	102	53	55	107	13	69	115	57
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay, s/veh	12.8	10.4	11	11.8
HCM LOS	B	B	B	B

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	31%	17%	6%	29%
Vol Thru, %	61%	59%	62%	48%
Vol Right, %	7%	25%	32%	24%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	153	270	146	212
LT Vol	48	45	9	61
Through Vol	94	158	90	101
RT Vol	11	67	47	50
Lane Flow Rate	174	307	166	241
Geometry Grp	1	1	1	1
Degree of Util (X)	0.276	0.454	0.253	0.368
Departure Headway (Hd)	5.721	5.323	5.493	5.504
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	626	675	652	653
Service Time	3.773	3.368	3.545	3.553
HCM Lane V/C Ratio	0.278	0.455	0.255	0.369
HCM Control Delay, s/veh	11	12.8	10.4	11.8
HCM Lane LOS	B	B	B	B
HCM 95th-tile Q	1.1	2.4	1	1.7



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	39	718	216	307	603	93	204	5	176	18	5	5
Future Volume (vph)	39	718	216	307	603	93	204	5	176	18	5	5
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		7.1			4.0			4.0	4.0		4.0	
Lane Util. Factor		0.95			0.95			1.00	1.00		1.00	
Frt		0.97			0.99			1.00	0.85		0.98	
Flt Protected		1.00			0.98			0.95	1.00		0.97	
Satd. Flow (prot)		3381			3404			1759	1568		1745	
Flt Permitted		0.85			0.55			0.71	1.00		0.79	
Satd. Flow (perm)		2888			1908			1309	1568		1420	
Peak-hour factor, PHF	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Adj. Flow (vph)	41	764	230	327	641	99	217	5	187	19	5	5
RTOR Reduction (vph)	0	44	0	0	14	0	0	0	147	0	4	0
Lane Group Flow (vph)	0	991	0	0	1053	0	0	222	40	0	25	0
Heavy Vehicles (%)	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%
Turn Type	Perm	NA		D.P+P	NA		Perm	NA	Perm	Perm	NA	
Protected Phases		2		1	1 2			4			4	
Permitted Phases	2			2			4		4	4		
Actuated Green, G (s)		22.9			32.0			12.9	12.9		12.9	
Effective Green, g (s)		22.9			32.0			12.9	12.9		12.9	
Actuated g/C Ratio		0.38			0.53			0.22	0.22		0.22	
Clearance Time (s)		7.1						4.0	4.0		4.0	
Vehicle Extension (s)		3.0						3.0	3.0		3.0	
Lane Grp Cap (vph)		1102			1244			281	337		305	
v/s Ratio Prot					c0.13							
v/s Ratio Perm		c0.34			0.32			c0.17	0.03		0.02	
v/c Ratio		0.90			0.85			0.79	0.12		0.08	
Uniform Delay, d1		17.5			11.9			22.3	19.0		18.8	
Progression Factor		1.00			1.00			1.00	1.00		1.00	
Incremental Delay, d2		11.6			7.2			14.0	0.2		0.1	
Delay (s)		29.1			19.1			36.3	19.1		18.9	
Level of Service		C			B			D	B		B	
Approach Delay (s/veh)		29.1			19.1			28.4			18.9	
Approach LOS		C			B			C			B	

Intersection Summary			
HCM 2000 Control Delay (s/veh)	24.7	HCM 2000 Level of Service	C
HCM 2000 Volume to Capacity ratio	0.86		
Actuated Cycle Length (s)	60.0	Sum of lost time (s)	15.1
Intersection Capacity Utilization	85.1%	ICU Level of Service	E
Analysis Period (min)	15		
c Critical Lane Group			

Intersection	
Int Delay, s/veh	0.4

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	6	8	3	194	164	2
Future Vol, veh/h	6	8	3	194	164	2
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	7	9	3	211	178	2

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	397	179	180	0	-	0
Stage 1	179	-	-	-	-	-
Stage 2	217	-	-	-	-	-
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	608	863	1395	-	-	-
Stage 1	852	-	-	-	-	-
Stage 2	819	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	607	863	1395	-	-	-
Mov Cap-2 Maneuver	607	-	-	-	-	-
Stage 1	849	-	-	-	-	-
Stage 2	819	-	-	-	-	-

Approach	EB	NB	SB
HCM Ctrl Dly, s/v	10.03	0.12	0
HCM LOS	B		

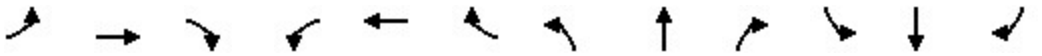
Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	27	-	731	-	-
HCM Lane V/C Ratio	0.002	-	0.021	-	-
HCM Ctrl Dly (s/v)	7.6	0	10	-	-
HCM Lane LOS	A	A	B	-	-
HCM 95th %tile Q(veh)	0	-	0.1	-	-

Intersection	
Intersection Delay, s/veh	9.8
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	24	82	23	4	97	76	56	97	7	51	71	50
Future Vol, veh/h	24	82	23	4	97	76	56	97	7	51	71	50
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Heavy Vehicles, %	7	7	7	7	7	7	7	7	7	7	7	7
Mvmt Flow	27	91	26	4	108	84	62	108	8	57	79	56
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay, s/veh	9.6	9.8	10	9.9
HCM LOS	A	A	A	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	35%	19%	2%	30%
Vol Thru, %	61%	64%	55%	41%
Vol Right, %	4%	18%	43%	29%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	160	129	177	172
LT Vol	56	24	4	51
Through Vol	97	82	97	71
RT Vol	7	23	76	50
Lane Flow Rate	178	143	197	191
Geometry Grp	1	1	1	1
Degree of Util (X)	0.254	0.204	0.267	0.264
Departure Headway (Hd)	5.149	5.128	4.879	4.979
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	690	692	728	713
Service Time	3.238	3.219	2.962	3.066
HCM Lane V/C Ratio	0.258	0.207	0.271	0.268
HCM Control Delay, s/veh	10	9.6	9.8	9.9
HCM Lane LOS	A	A	A	A
HCM 95th-tile Q	1	0.8	1.1	1.1



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	13	648	208	237	680	17	166	1	204	55	3	5
Future Volume (vph)	13	648	208	237	680	17	166	1	204	55	3	5
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		7.1			4.0			4.0	4.0		4.0	
Lane Util. Factor		0.95			0.95			1.00	1.00		1.00	
Frt		0.96			1.00			1.00	0.85		0.99	
Flt Protected		1.00			0.99			0.95	1.00		0.96	
Satd. Flow (prot)		3478			3555			1810	1615		1800	
Flt Permitted		0.93			0.54			0.74	1.00		0.63	
Satd. Flow (perm)		3220			1958			1401	1615		1185	
Peak-hour factor, PHF	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
Adj. Flow (vph)	15	728	234	266	764	19	187	1	229	62	3	6
RTOR Reduction (vph)	0	50	0	0	2	0	0	0	183	0	5	0
Lane Group Flow (vph)	0	927	0	0	1047	0	0	188	46	0	66	0
Heavy Vehicles (%)	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Turn Type	Perm	NA		D.P+P	NA		Perm	NA	Perm	Perm	NA	
Protected Phases		2		1	1 2			4			4	
Permitted Phases	2			2			4		4	4		
Actuated Green, G (s)		22.9			32.8			12.1	12.1		12.1	
Effective Green, g (s)		22.9			32.8			12.1	12.1		12.1	
Actuated g/C Ratio		0.38			0.55			0.20	0.20		0.20	
Clearance Time (s)		7.1						4.0	4.0		4.0	
Vehicle Extension (s)		3.0						3.0	3.0		3.0	
Lane Grp Cap (vph)		1228			1333			282	325		238	
v/s Ratio Prot					c0.13							
v/s Ratio Perm		0.29			c0.30			c0.13	0.03		0.06	
v/c Ratio		0.75			0.79			0.67	0.14		0.28	
Uniform Delay, d1		16.1			10.8			22.1	19.7		20.3	
Progression Factor		1.00			1.00			1.00	1.00		1.00	
Incremental Delay, d2		4.3			4.7			5.8	0.2		0.6	
Delay (s)		20.5			15.5			27.9	19.9		20.9	
Level of Service		C			B			C	B		C	
Approach Delay (s/veh)		20.5			15.5			23.5			20.9	
Approach LOS		C			B			C			C	

Intersection Summary			
HCM 2000 Control Delay (s/veh)	18.9	HCM 2000 Level of Service	B
HCM 2000 Volume to Capacity ratio	0.75		
Actuated Cycle Length (s)	60.0	Sum of lost time (s)	15.1
Intersection Capacity Utilization	73.9%	ICU Level of Service	D
Analysis Period (min)	15		
c Critical Lane Group			

Intersection	
Int Delay, s/veh	0.4

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	4	5	9	186	212	6
Future Vol, veh/h	4	5	9	186	212	6
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	4	5	10	202	230	7

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	455	234	237	0	-	0
Stage 1	234	-	-	-	-	-
Stage 2	222	-	-	-	-	-
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	563	805	1330	-	-	-
Stage 1	805	-	-	-	-	-
Stage 2	815	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	558	805	1330	-	-	-
Mov Cap-2 Maneuver	558	-	-	-	-	-
Stage 1	798	-	-	-	-	-
Stage 2	815	-	-	-	-	-

Approach	EB	NB	SB
HCM Ctrl Dly, s/v	10.43	0.36	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	83	-	673	-	-
HCM Lane V/C Ratio	0.007	-	0.015	-	-
HCM Ctrl Dly (s/v)	7.7	0	10.4	-	-
HCM Lane LOS	A	A	B	-	-
HCM 95th %tile Q(veh)	0	-	0	-	-

Intersection	
Intersection Delay, s/veh	11.9
Intersection LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	48	158	67	9	90	50	48	97	11	63	102	52
Future Vol, veh/h	48	158	67	9	90	50	48	97	11	63	102	52
Peak Hour Factor	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
Heavy Vehicles, %	5	5	5	5	5	5	5	5	5	5	5	5
Mvmt Flow	55	180	76	10	102	57	55	110	13	72	116	59
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay, s/veh	13	10.5	11.1	12
HCM LOS	B	B	B	B

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	31%	18%	6%	29%
Vol Thru, %	62%	58%	60%	47%
Vol Right, %	7%	25%	34%	24%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	156	273	149	217
LT Vol	48	48	9	63
Through Vol	97	158	90	102
RT Vol	11	67	50	52
Lane Flow Rate	177	310	169	247
Geometry Grp	1	1	1	1
Degree of Util (X)	0.284	0.463	0.26	0.379
Departure Headway (Hd)	5.763	5.368	5.529	5.54
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	620	670	647	649
Service Time	3.819	3.416	3.586	3.592
HCM Lane V/C Ratio	0.285	0.463	0.261	0.381
HCM Control Delay, s/veh	11.1	13	10.5	12
HCM Lane LOS	B	B	B	B
HCM 95th-tile Q	1.2	2.5	1	1.8

WILLIAM KENNY ASSOCIATES
LANDSCAPE ARCHITECTURE ▪ ECOLOGICAL SERVICES

June 4, 2024

Mr. Jason Edwards
J. Edwards Associates, LLC
227 Stepney Road
Easton, CT 06612

Re: Wetland and Watercourse Delineation
2105-2125 Reservoir Avenue, Trumbull, Connecticut

Dear Mr. Edwards:

As requested, we visited the referenced properties to determine the presence or absence of wetlands and/or watercourses, to demarcate (flag) the boundaries of wetlands and watercourses identified, and to identify onsite soil types. This letter includes the methods and results of our investigation, which we completed today, June 4, 2024. In summary, no inland wetlands or watercourses were observed at the properties.

Regulatory Definitions

The Inland Wetlands and Watercourses Act (Connecticut General Statutes §22a-38) defines inland wetlands as "land, including submerged land...which consists of any soil types designated as poorly drained, very poorly drained, alluvial, and floodplain." Watercourses are defined in the act as "rivers, streams, brooks, waterways, lakes, ponds, marshes, swamps, bogs and all other bodies of water, natural or artificial, vernal or intermittent, public or private, which are contained within, flow through or border upon the state or any portion thereof." The Act defines Intermittent Watercourses as having a defined permanent channel and bank and the occurrence of two or more of the following characteristics: A) evidence of scour or deposits of recent alluvium or detritus, B) the presence of standing or flowing water for a duration longer than a particular storm incident, and C) the presence of hydrophytic vegetation.

Methodology

A second order soil survey in accordance with the principles and practices noted in the USDA publication *Soil Survey Manual* (1993) was completed at the subject site. The classification system of the National Cooperative Soil Survey was used in this investigation. Soil map units identified at the project site generally correspond to those included in the *Soil Survey of the State of Connecticut* (USDA 2005).

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Wetland determinations were completed based on the presence of poorly drained, very poorly drained, alluvial, or floodplain soils. Soil types were identified by observation of soil morphology (soil texture, color, structure, etc.). To observe the morphology of the property's soils, test pits and/or borings (maximum depth of two feet) were completed at the site.

Intermittent watercourse determinations were made based on the presence of a defined permanent channel and bank and the occurrence of two or more of the following characteristics: A) evidence of scour or deposits of recent alluvium or detritus, B) the presence of standing or flowing water for a duration longer than a particular storm incident, and C) the presence of hydrophytic vegetation.

The wetland and watercourse determination is subject to change until adopted by local, state, or federal regulatory agencies.

Results

The approximate 3.1-acre project site includes a residential property at 2135, 2145 and 2155 Reservoir Avenue in Trumbull, Connecticut. Reservoir Avenue borders the eastern property boundary. Property improvements include three single-family residences, storage sheds and an asphalt and dirt driveways. The primary vegetative cover in the western portion of the properties is a broadleaved deciduous woodland and scrub-shrub. Lawn with other ornamentals and some shade trees are present in the eastern portion of the properties.

No inland wetlands and watercourses were identified at the properties. The identified soils are neither poorly drained, very poorly drained, or from alluvial deposits. They are moderately well to well drained and formed from glacial till deposits or are forming form human altered deposits.

Four soil map units were identified on the property (one wetland and three upland). Each map unit represents a specific area on the landscape and consists of one or more soils for which the unit is named. Other soils (inclusions that are generally too small to be delineated separately) may account for 10 to 15 percent of each map unit. The mapped units are identified in the following table by name and symbol and typical characteristics (parent material, drainage class, high water table, depth to bedrock, and slope). These characteristics are generally the primary characteristics to be considered in land use planning and management. A description of each characteristic and their land use implications follows the table. A complete description of each soil map unit can be found in the *Soil Survey of the State of Connecticut* (USDA 2005), and at *https://soilseries.sc.egov.usda.gov/osdname.aspx.* On the day of the review, the upland soil was dry to moist and the wetland soil was moist. The sky was clear and air temperatures were in the 60's º F.

Map Unit		Parent	Slope	Drainage	High Water Table			Depth To
Sym.	Name	Material	(%)	Class	Depth (ft)	Kind	Mos.	Bedrock (in)
	Upland Soil							
50	Sutton fine sandy loam	Loose Glacial Till	3-8	Moderately Well Drained	1.5-3.5	Apparent	Nov-Apr	>60
60	Canton and	Loose Glacial Till	0-15	Well Drained	>6.0	--	--	>60

Map Unit Sym.	Map Unit Name	Parent Material	Slope (%)	Drainage Class	High Water Table Depth (ft)	High Water Table Kind	High Water Table Mos.	Depth To Bedrock (in)
	Charlton soils	Loose Glacial Till	0-15	Well Drained	>6.0	--	--	>60
308	Udorthents, Smoothed	Excavated or Filled Soil (>2 feet)	0-45	Well Drained	>6.0	--	--	>60
	Wetland Soil							
1	Aquents	Excavated or Filled Soil (>2 feet)	0-3	Poorly Drained	0.0-1.5	Apparent	Nov-May	>60

Parent material is the unconsolidated organic and mineral material in which soil forms. Soil inherits characteristics, such as mineralogy and texture, from its parent material. Glacial till is unsorted, nonstratified glacial drift consisting of clay, silt, sand, and boulders transported and deposited by glacial ice. Glacial outwash consists of gravel, sand, and silt, which are commonly stratified and deposited by glacial melt water. Alluvium is material such as sand, silt, or clay, deposited on land by streams. Organic deposits consist of decomposed plant and animal parts.

A soil's texture affects the ease of digging, filling, and compacting and the permeability of a soil. Generally sand and gravel soils, such as outwash soils, have higher permeability rates than most glacial till soils. Soil permeability affects the cost to design and construct subsurface sanitary disposal facilities and, if too slow or too fast, may preclude their use. Outwash soils are generally excellent sources of natural aggregates (sand and gravel) suitable for commercial use, such as construction sub base material. Organic layers in soils can cause movement of structural footings. Compacted glacial till layers make excavating more difficult and may preclude the use of subsurface sanitary disposal systems or increase their design and construction costs if fill material is required.

Generally, soils with steeper slopes increase construction costs, increase the potential for erosion and sedimentation impacts, and reduce the feasibility of locating subsurface sanitary disposal facilities.

Drainage class refers to the frequency and duration of periods of soil saturation or partial saturation during soil formation. Seven classes of natural drainage classes exist. They range from excessively drained, where water is removed from the soil very rapidly, to very poorly drained, where water is removed so slowly that free water remains at or near the soil surface during most of the growing season. Soil drainage affects the type and growth of plants found in an area. When landscaping or gardening, drainage class information can be used to assure that proposed plants are adapted to existing drainage conditions or that necessary alterations to drainage conditions (irrigation or drainage systems) are provided to assure plant survival.

High water table is the highest level of a saturated zone in the soil in most years. The water table can affect the timing of excavations; the ease of excavating, constructing, and grading; and the supporting capacity of the soil. Shallow water tables may preclude the use of subsurface sanitary disposal systems or increase design and construction costs if fill material is required.

The depth to bedrock refers to the depth to fixed rock. Bedrock depth affects the ease and cost of construction, such as digging, filling, compacting, and planting. Shallow depth bedrock may preclude the use of subsurface sanitary disposal systems or increase design and construction costs if fill material is required.

Conclusions

Today, we investigated the properties at 2135, 2145 and 2155 Reservoir Avenue in Trumbull, Connecticut. No inland wetlands and watercourses were identified at the properties. Thank you for the opportunity to assist you. If you should have any questions or comments, please do not hesitate to contact us.

Sincerely,





William L. Kenny, PWS, PLA
Soil Scientist

Alexander Wojtkowiak
Soil Scientist

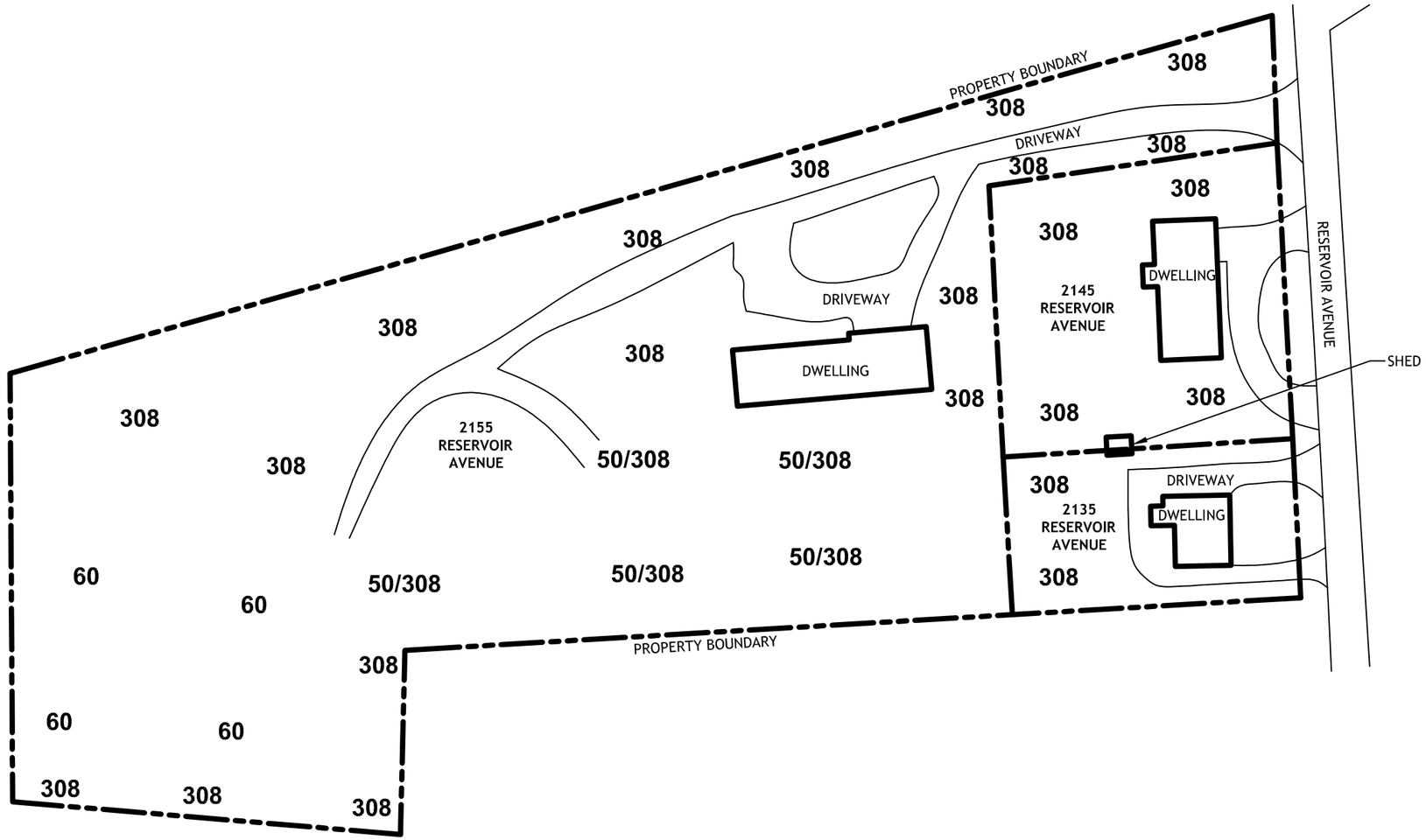
Enclosure

Ref. No. 5703

SOIL LEGEND

UPLAND
50 SUTTON FINE SANDY LOAM
60 CANTON AND CHARLTON SOILS
308 UDORTHENTS, SMOOTHED

WILLIAM KENNY ASSOCIATES
LANDSCAPE ARCHITECTURE ▪ ECOLOGICAL SERVICES
1899 Bronson Road Fairfield CT 06824
203 366 0588 www.wkassociates.net



NOTES:
- *INFORMATION SHOWN ON THIS DRAWING IS APPROXIMATE.*
- *SOIL INFORMATION PROVIDED BY WILLIAM KENNY ASSOC. OTHER INFORMATION TAKEN FROM A TOWN OF TRUMBULL GIS MAP.*
- ***50, 60, 308** AND **1** ARE SOIL MAPPING UNIT SYMBOLS. SEE DETERMINATION REPORT FOR THE SOIL MAP UNIT NAMES AND ADDITIONAL RELATED INFORMATION.*

I CERTIFY THAT THIS SOIL MAP SUBSTANTIALLY REPRESENTS THE SOILS MAPPED IN THE FIELD

WILLIAM L. KENNY, SOILSCIENTIST

SOIL MAP

2135, 2145 & 2155 RESERVOIR AVENUE TRUMBULL, CONNECTICUT

SCALE: NOT TO SCALE
DATE: JUNE 4, 2024

Ref. No. 5703

NORTH

Planning and Zoning
Department
Telephone (203) 452-5044
Fax (203) 452-5169

Town of Trumbull
CONNECTICUT

Town Hall
5866 Main Street
Trumbull, Connecticut 06611

PLANNING AND ZONING DEPARTMENT

APPLICATION FOR SPECIAL PERMIT OR SITE PLAN APPROVAL

- ☐ **SPECIAL PERMIT**
- ☑ **SITE PLAN REVIEW**

ZONE:

- ☐ **Commercial Zone B-C, B-C LH, TH Node, MDD**
- ☐ **Industrial Zone I-L, I-L2, I-L3**
- ☑ **Residential Zone A, AA, AAA**
- ☐ **Overlay Zone** _____

Location of Property: 2135, 2145, 2155 Reservoir Avenue

Assessor's Map No.: 611 Parcel No.: 71, 73 & 74 Lot No.: _____

Trumbull Land Records: Volume: 1794 Page: 735

Applicant: Vessel RE Holdings LLC; LDM Associates; Lawrence F. Pace Jr., Marle M. Pace, David G. Pace, Michael J. Hofbauer

Address of Applicant: c/o Carmody Law: 1055 Washington Blvd. 4th Floor, Stamford, CT 06901

Telephone Number: Day 203-252-2669 Evening 203-252-2669

Email Address: [redacted]

Owner of Record: LDM Associates, Lawrence F. Pace Jr., Marle M. Pace, David G. Pace, Michael J. Hofbauer

Address of Owner of Record: c/o Agent: Carmody Law: 1055 Washington Blvd. 4th Floor, Stamford, CT 06901

Telephone Number: 202-252-2669 Email [redacted]

Party to be notified: Jason Klein (Agent)

Address of Attorney or Agent: 1055 Washington Blvd. 4th Floor, Stamford, CT 06901

Telephone Number: 203-252-2669 Email: 203-252-2669

Site Engineer: Solli Engineering, Attn: Luke Mauro

Address of Engineering Company: 501 Main Street, Suite 2A, Monroe, CT

Telephone Number: 203-880-5455 **Email:** [redacted]

Relevant Article(s) and Section(s) of the Regulations: (i.e. Art__, Sec __)

N/A. Application is filed pursuant to Sec. 8-30g of the Connecticut General Statutes

Description of the proposed request, including specific use to be conducted:

See enclosed Project Narrative.

Is the property within 500 feet of another municipality?

☑ YES ☐ NO (Bridgeport)

Does this proposal involve a structure that was built before 1940?

☑ YES ☐ NO

Does this proposal require the approval of the Inland Wetlands Agency?

☐ YES ☑ NO

Are there any deed restrictions on this property that may affect this application?

☐ YES ☑ NO

Has a previous application been filed for this property?

☐ YES ☑ NO

If yes, when? N/A **Attach a copy of decision letter.**

Project is to be started on 90 days from Site Plan Approval **Completed on** 9 months from start date

List of Federal and State permits required and their status:

Administrative decision from OSTA subsequent to local land use approval.

Certification

I/We certify that all of the above information and statements contained in any documentation submitted with the application are true to the best of my/our knowledge.

I/We fully understand that the Planning and Zoning Commission reserves the right to revoke any permit should the information contained herein not be true or that the information requested by the application has not been fully disclosed.

(See Letter of Authority)
Signature of Owner

11.7.25
Date

(See Letter of Authority)
Signature of Applicant (if not property owner)

11.7.25
Date

NOTICE: By signing this application, owner and applicant consent to site inspections by Town Staff and/or Commissioners.

A FEE IN ACCORDANCE WITH APPROVED FEE SCHEDULE MUST ACCOMPANY THIS APPLICATION. Make check payable to TOWN OF TRUMBULL.

FOR OFFICE USE ONLY

Date Application and Fee Received:_____ By:_____

Date of Public Hearing:_____ Date Action Taken:_____

List of Abutters Submitted:_____

Revised 2/25/2020

Departmental Application Sign-off

for receipt of Special Permit/Site Plans prior to scheduled Planning & Zoning Commission Public Hearing

(not to be confused with sign-off for application approval).

Return to Planning & Zoning Office when completed.

Location of Premises:_____

Permit Application Number: _____

Required:

( ) **Planning** _____ **Date:** _____

( ) **Zoning** _____ **Date:** _____

( ) **Engineering** _____ **Date:** _____

( ) **Inland Wetlands** _____ **Date:** _____

( ) **W.P.C.A.** _____ **Date:** _____

( ) **Health Dept.** _____ **Date:** _____

( ) **Fire Marshal** _____ **Date:** _____

( ) **Police Dept.** _____ **Date:** _____

( ) **Building Dept.** _____ **Date:** _____

2135 RESERVOIR AVENUE

Location	2135 RESERVOIR AVENUE	**MBLU**	G/11 / 00071/ 000/
ACT NUMBER	00490000	**Owner**	PACE LAWRENCE F JR & MARK M & DAVID G &
Assessment	$168,280	**Appraisal**	$240,400
PID	8420	**Building Count**	1
Fire District	T	**Assessing District**	

Current Value

Appraisal					
Valuation Year	**Building**	**Extra Features**	**Outbuildings**	**Land**	**Total**
2024	$86,100	$3,300	$0	$151,000	$240,400
Assessment					
Valuation Year	**Building**	**Extra Features**	**Outbuildings**	**Land**	**Total**
2024	$60,270	$2,310	$0	$105,700	$168,280

Owner of Record

Owner	PACE LAWRENCE F JR & MARK M & DAVID G &	**Sale Price**	$1
Co-Owner	LDM ASSOCIATES & HOFBAUER ET ALS	**Book & Page**	1794/0735
Address	P O BOX 5126 BRIDGEPORT, CT 06610-0126	**Sale Date**	09/16/2019
		Instrument	01

Ownership History

Ownership History				
Owner	**Sale Price**	**Book & Page**	**Instrument**	**Sale Date**
PACE LAWRENCE F JR & MARK M & DAVID G &	$1	1794/0735	01	09/16/2019
PACE LAWRENCE F JR & MARK M & DAVID G &	$0	1558/0298	10	02/17/2011
PACE LAWRENCE F SR & LDM ASSOCIATES &	$0	1326/0084	08	02/14/2005
PACE LAWRENCE F SR & THERESA ET ALS	$1	0886/0635	01	02/23/1996

Building Information

Building 1 : Section 1

Year Built: 1952
Living Area: 1,080
Replacement Cost: $130,466
Building Percent Good: 66
Replacement Cost Less Depreciation: $86,100

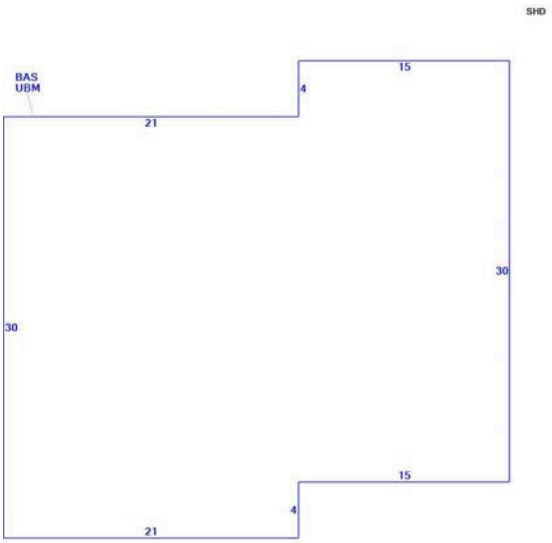
Building Attributes	
Field	**Description**
Style:	Ranch
Model	Residential
Grade:	C
Stories:	1 Story
Occupancy	1
Exterior Wall 1	Vinyl Siding
Exterior Wall 2	
Roof Structure:	Gable
Roof Cover	Asph/F Gls
Interior Wall 1	Drywall
Interior Wall 2	
Floor Covering	Hardwood
Alt. Floor Cover	
Heat Fuel	Oil
Heat Type:	Hot Water
AC Type:	None
Total Bedrooms:	2 Bedrooms
Total Bthrms:	1 Full Bath
Total Half Baths:	0
Total Xtra Fixtrs:	
Total Rooms:	5 Rooms
Bath Style:	Average
Kitchen Style:	Average
Total Kitchens	1
Total Elec Meters	1
Num Park	
Fireplaces	
Fndtn Cndtn	
Basement	

Building Photo



(https://images.vgsi.com/photos2/TrumbullCTPhotos//\00\02\44\48.JPG)

Building Layout



(ParcelSketch.ashx?pid=8420&bid=8420)

Building Sub-Areas (sq ft)			Legend
Code	**Description**	**Gross Area**	**Living Area**
BAS	First Floor	1,080	1,080
UBM	Unfinished Basement	1,080	0
		2,160	1,080

Extra Features

Extra Features			Legend
Code	**Description**	**Size**	**Bldg #**
FPL	Fireplace	1.00 Units	1

Land

Land Use

Use Code	101
Description	Single Family Res
Zone	A
Neighborhood	600
	No
Category	

Land Line Valuation

Size (Acres)	0.26
Frontage	
Depth	

Outbuildings

Outbuildings	Legend
No Data for Outbuildings	

Valuation History

Appraisal					
Valuation Year	**Building**	**Extra Features**	**Outbuildings**	**Land**	**Total**
2023	$86,100	$3,300	$0	$151,000	$240,400
2022	$86,100	$3,300	$0	$151,000	$240,400
2021	$86,100	$3,300	$0	$151,000	$240,400

Assessment					
Valuation Year	**Building**	**Extra Features**	**Outbuildings**	**Land**	**Total**
2023	$60,270	$2,310	$0	$105,700	$168,280
2022	$60,270	$2,310	$0	$105,700	$168,280
2021	$60,270	$2,310	$0	$105,700	$168,280

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2145 RESERVOIR AVENUE

Location	2145 RESERVOIR AVENUE	**MBLU**	G/11 / 00073/ 000/
ACT NUMBER	00815900	**Owner**	PACE LAWRENCE F JR & MARK M & DAVID G &
Assessment	$197,400	**Appraisal**	$282,000
PID	8421	**Building Count**	1
Fire District	T	**Assessing District**	

Current Value

Appraisal					
Valuation Year	**Building**	**Extra Features**	**Outbuildings**	**Land**	**Total**
2024	$110,700	$4,800	$0	$166,500	$282,000
Assessment					
Valuation Year	**Building**	**Extra Features**	**Outbuildings**	**Land**	**Total**
2024	$77,490	$3,360	$0	$116,550	$197,400

Owner of Record

Owner	PACE LAWRENCE F JR & MARK M & DAVID G &	**Sale Price**	$1
Co-Owner	LDM ASSOCIATES & HOFBAUER ET ALS	**Book & Page**	1794/0735
Address	P O BOX 5126 BRIDGEPORT, CT 06610-0126	**Sale Date**	09/16/2019
		Instrument	01

Ownership History

Ownership History				
Owner	**Sale Price**	**Book & Page**	**Instrument**	**Sale Date**
PACE LAWRENCE F JR & MARK M & DAVID G &	$1	1794/0735	01	09/16/2019
PACE LAWRENCE F JR & MARK M & DAVID G &	$0	1558/0299	10	02/17/2011
PACE LAWRENCE F SR & LDM ASSOCIATES &	$0	1326/0084	08	02/14/2005
PACE LAWRENCE F SR & THERESA M &	$1	0886/0643	Q	02/23/1996

Building Information

Building 1 : Section 1

Year Built:	1936
Living Area:	1,320
Replacement Cost:	$175,759
Building Percent Good:	63
Replacement Cost Less Depreciation:	$110,700

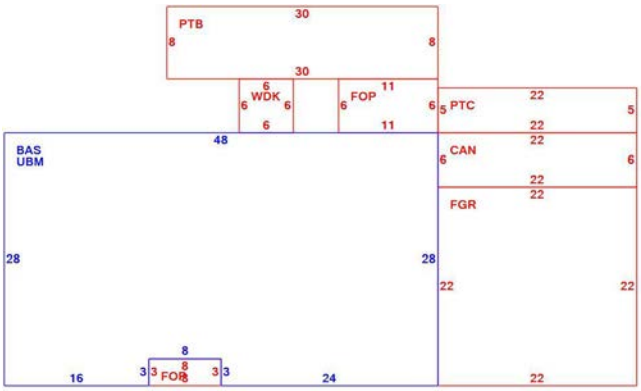
Building Attributes	
Field	**Description**
Style:	Ranch
Model	Residential
Grade:	C
Stories:	1 Story
Occupancy	1
Exterior Wall 1	Wood Shingle
Exterior Wall 2	
Roof Structure:	Hip
Roof Cover	Asph/F Gls
Interior Wall 1	Drywall
Interior Wall 2	
Floor Covering	Hardwood
Alt. Floor Cover	
Heat Fuel	Gas
Heat Type:	Hot Water
AC Type:	None
Total Bedrooms:	3 Bedrooms
Total Bthrms:	2 Full Baths
Total Half Baths:	0
Total Xtra Fixtrs:	
Total Rooms:	5 Rooms
Bath Style:	Average
Kitchen Style:	Average
Total Kitchens	1
Total Elec Meters	1
Num Park	
Fireplaces	
Fndtn Cndtn	
Basement	

Building Photo



(https://images.vgsi.com/photos2/TrumbullCTPhotos//\00\02\44\49.JPG)

Building Layout



(ParcelSketch.ashx?pid=8421&bid=8421)

Building Sub-Areas (sq ft)			Legend
Code	**Description**	**Gross Area**	**Living Area**
BAS	First Floor	1,320	1,320
CAN	Canopy	132	0
FGR	Attached Garage	484	0
FOP	Open Porch	90	0
PTB	Brick Patio	240	0
PTC	Concrete Patio	110	0
UBM	Unfinished Basement	1,320	0
WDK	Wood Deck	36	0
		3,732	1,320

Extra Features

Extra Features			Legend
Code	**Description**	**Size**	**Bldg #**
FPL	Fireplace	1.00 Units	1

FPO	FP X Opening	1.00 Units	1

Land

Land Use

Use Code	101
Description	Single Family Res
Zone	A
Neighborhood	600
Category	No

Land Line Valuation

Size (Acres)	0.51
Frontage	
Depth	

Outbuildings

Outbuildings	Legend
No Data for Outbuildings	

Valuation History

Appraisal					
Valuation Year	**Building**	**Extra Features**	**Outbuildings**	**Land**	**Total**
2023	$110,700	$4,800	$0	$166,500	$282,000
2022	$110,700	$4,800	$0	$166,500	$282,000
2021	$110,700	$4,800	$0	$166,500	$282,000

Assessment					
Valuation Year	**Building**	**Extra Features**	**Outbuildings**	**Land**	**Total**
2023	$77,490	$3,360	$0	$116,550	$197,400
2022	$77,490	$3,360	$0	$116,550	$197,400
2021	$77,490	$3,360	$0	$116,550	$197,400

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2155 RESERVOIR AVENUE

Location	2155 RESERVOIR AVENUE	**MBLU**	G/11 / 00074/ 000/
ACT NUMBER	00096700	**Owner**	PACE LAWRENCE F JR & MARK M & DAVID G &
Assessment	$289,800	**Appraisal**	$414,000
PID	8419	**Building Count**	2
Fire District	T	**Assessing District**	

Current Value

Appraisal					
Valuation Year	**Building**	**Extra Features**	**Outbuildings**	**Land**	**Total**
2024	$143,300	$0	$2,200	$268,500	$414,000
Assessment					
Valuation Year	**Building**	**Extra Features**	**Outbuildings**	**Land**	**Total**
2024	$100,310	$0	$1,540	$187,950	$289,800

Owner of Record

Owner	PACE LAWRENCE F JR & MARK M & DAVID G &	**Sale Price**	$1
Co-Owner	LDM ASSOCIATES & HOFBAUER ET ALS	**Book & Page**	1794/0735
Address	P O BOX 697 BRIDGEPORT, CT 06601	**Sale Date**	09/16/2019
		Instrument	01

Ownership History

Ownership History				
Owner	**Sale Price**	**Book & Page**	**Instrument**	**Sale Date**
PACE LAWRENCE F JR & MARK M & DAVID G &	$1	1794/0735	01	09/16/2019
PACE LAWRENCE F JR & MARK M & DAVID G &	$0	1558/0300	10	02/17/2011
PACE LAWERENCE F SR & LDM ASSOCIATES &	$0	1326/0084	08	02/14/2005
PACE LAWERENCE F SR & THERESA M &	$1	0886/0651	Q	02/23/1996

Building Information

Building 1 : Section 1

Year Built: 1957
Living Area: 1,760
Replacement Cost: $191,413
Building Percent Good: 71
Replacement Cost Less Depreciation: $135,900

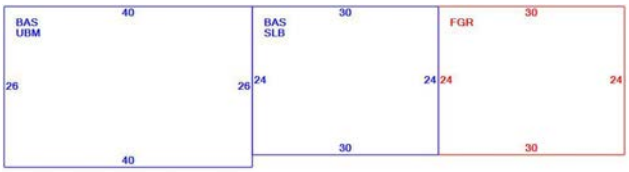
Building Attributes	
Field	**Description**
Style:	Ranch
Model	Residential
Grade:	C
Stories:	1 Story
Occupancy	1
Exterior Wall 1	Vinyl Siding
Exterior Wall 2	
Roof Structure:	Gable
Roof Cover	Asph/F Gls
Interior Wall 1	Drywall
Interior Wall 2	
Floor Covering	Carpet
Alt. Floor Cover	
Heat Fuel	Oil
Heat Type:	Hot Water
AC Type:	None
Total Bedrooms:	3 Bedrooms
Total Bthrms:	1 Full Bath
Total Half Baths:	0
Total Xtra Fixtrs:	
Total Rooms:	5 Rooms
Bath Style:	Average
Kitchen Style:	Average
Total Kitchens	1
Total Elec Meters	
Num Park	
Fireplaces	
Fndtn Cndtn	
Basement	

Building Photo



(https://images.vgsi.com/photos2/TrumbullCTPhotos//\00\00\21\81.jpg)

Building Layout



(ParcelSketch.ashx?pid=8419&bid=8419)

Building Sub-Areas (sq ft)			Legend
Code	**Description**	**Gross Area**	**Living Area**
BAS	First Floor	1,760	1,760
FGR	Attached Garage	720	0
SLB	Slab	720	0
UBM	Unfinished Basement	1,040	0
		4,240	1,760

Building 2 : Section 1

Year Built: 1957
Living Area: 999
Replacement Cost: $49,159
Building Percent Good: 15

Replacement Cost
Less Depreciation: $7,400

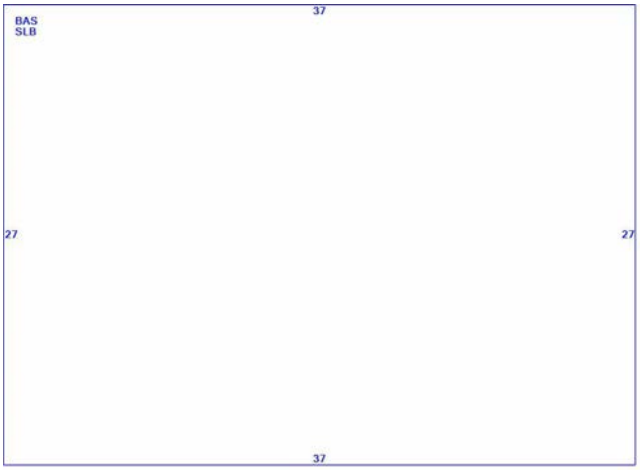
Building Attributes : Bldg 2 of 2	
Field	**Description**
Style:	Service Shop
Model	Industrial
Grade	D
Stories:	1 Story
Occupancy	1.00
Exterior Wall 1	Concrete
Exterior Wall 2	
Roof Structure	Flat
Roof Cover	Rolled Compos
Interior Wall 1	Minimum
Interior Wall 2	
Interior Floor 1	Concrete
Interior Floor 2	
Heating Fuel	Gas
Heating Type	Forced Air
AC Type	None
Struct Class	
Bldg Use	Job Shop
1st Floor Use:	
Heat/AC	None
Frame Type	Masonry
Baths/Plumbing	None
Ceiling/Walls	None
Rooms/Prtns	Average
Wall Height	12.00
% Comn Wall	

Building Photo



(https://images.vgsi.com/photos2/TrumbullCTPhotos//\00\00\21\80.jpg)

Building Layout



(ParcelSketch.ashx?pid=8419&bid=12817)

Building Sub-Areas (sq ft)			Legend
Code	**Description**	**Gross Area**	**Living Area**
BAS	First Floor	999	999
SLB	Slab	999	0
		1,998	999

Extra Features

Extra Features	Legend
No Data for Extra Features	

Land

Land Use

Use Code 305
Description Res/Office

Land Line Valuation

Size (Acres) 2.8
Frontage

Zone	A	**Depth**	
Neighborhood	635		
	No		
Category			

Outbuildings

Outbuildings					Legend
Code	**Description**	**Sub Code**	**Sub Description**	**Size**	**Bldg #**
FN3	Fence 6'		Fence 6'	144.00 L.F.	1
FN3	Fence 6'		Fence 6'	80.00 L.F.	1

Valuation History

Appraisal					
Valuation Year	**Building**	**Extra Features**	**Outbuildings**	**Land**	**Total**
2023	$143,300	$0	$2,200	$268,500	$414,000
2022	$143,300	$0	$2,200	$268,500	$414,000
2021	$143,300	$0	$2,200	$268,500	$414,000

Assessment					
Valuation Year	**Building**	**Extra Features**	**Outbuildings**	**Land**	**Total**
2023	$100,310	$0	$1,540	$187,950	$289,800
2022	$100,310	$0	$1,540	$187,950	$289,800
2021	$100,310	$0	$1,540	$187,950	$289,800

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1722

VOL 1794 PAGE 0735

Please return recorded document to:
GARSON & SLEPIAN
ATTORNEYS AT LAW
72 Ruane Street
Fairfield, CT 06824

Doc ID: 004967580003 Type: LAN
Book 1794 Page 735 - 737
File# 1722

STATUTORY FORM QUIT CLAIM DEED

MICHELE HOFBAUER and JOHN HOFBAUER, both of 111 Williams Road, Trumbull, Connecticut 06611, for **ONE DOLLAR ($1.00)** consideration paid hereby **GRANT** *WITH QUIT CLAIM COVENANTS to:*

MICHAEL J. HOFBAUER of 111 Williams Road, Trumbull, Connecticut 06611

the property commonly known as:

2145 RESERVOIR AVENUE, TRUMBULL, CONNECTICUT 06611, AND
2155 Reservoir Avenue, Trumbull, Connecticut 06611
and
2135 Reservoir Avenue, Trumbull, Connecticut 06611

as more particularly described on **SCHEDULE A** attached hereto and made a part hereof.

Signed, this 6th day of August, 2019.

Witnessed by:

Heidi Schmenk

Teresa Zajac

GRANTORS:

MICHELE HOFBAUER

JOHN HOFBAUER

No Conveyance Tax Collected
Suzanne Burr Monaco
Town Clerk of Trumbull

STATE OF CONNECTICUT
SS: Fairfield
COUNTY OF FAIRFIELD

The foregoing instrument was acknowledged before me this 6th day of August, 2019 by **MICHELE HOFBAUER and JOHN HOFBAUER.**

David Craig Slepian
Commissioner of the Superior Court

Grantee's Mailing Addresses:
Michael J. Hofbauer – 111 Williams Road, Trumbull, Connecticut 06611

SCHEDULE A

LEGAL DESCRIPTION

PARCEL ONE (2135 Reservoir Avenue):

ALL THAT CERTAIN piece or parcel of land, together with the buildings and improvements thereon, situated in the Town of Trumbull, County of Fairfield, and State of Connecticut, and being more particularly bounded and described as follows, to wit:

NORTHERLY: By land now or formerly of Beatrice M. Parente and John Pavone, 150 feet, more or less;

EASTERLY: By Reservoir Avenue, 75 feet;

SOUTHERLY: By land now or formerly of Peter F. Miller and Grace M. Miller, 150 feet, more or less;

WESTERLY: By land now or formerly of Beatrice M. Parente and John Pavone, 75 feet, more or less.

PARCEL TWO (2145 Reservoir Avenue):

ALL THAT CERTAIN piece or parcel of land, together with the buildings and improvements thereon, situated in the Town of Trumbull, County of Fairfield, and State of Connecticut, more particularly bounded and described as follows, to wit:

Commencing at a point 75 feet north of property now or formerly of Camp Clark on the west side of Reservoir Avenue; thence North 78° 30' West 150 feet along land now or formerly of Faustini; thence North 8° 47' East along property now or formerly of Faustini, 140 feet; thence South 83° 51' East along property now or formerly of Faustini, 149.98 feet to Reservoir Avenue; thence South 8° 47' West along Reservoir Avenue, 154 feet south to the point or place of beginning.

PARCEL THREE (2155 Reservoir Avenue):

ALL THOSE TWO CERTAIN pieces or parcels of land, together with the buildings and improvements thereon, situated in the Town of Trumbull, County of Fairfield, and State of Connecticut, more particularly bounded and described as follows:

First Piece:

NORTHERLY:	By land now or formerly of The Connecticut Light and Power Company, 450 feet, more or less;
EASTERLY:	By Reservoir Avenue, 71 feet, more or less;
SOUTHERLY:	By land now or formerly of Joseph and Florence Byczko, 149.98 feet;
EASTERLY AGAIN:	By land now or formerly of Joseph and Florence Byczko, 140 feet, and land now or formerly of Paul DiCecco, 75 feet, in all, 215 feet;
SOUTHERLY AGAIN:	By land now or formerly of Peter and Grace Miller, 300 feet, more or less;
WESTERLY:	By land now or formerly of Gustave and Christine Voight, 193 feet, more or less.

Second Piece:

NORTHERLY:	By land now or formerly of Ruth Baum, 200 feet, more or less;
EASTERLY:	In part by land now or formerly of John Pavone and Beatrice Parente, and in part by land now or formerly of Peter F. and Grace M. Miller, 291.49 feet, more or less;
SOUTHERLY:	In part by land now or formerly of Vincent J. and Catherine I. Jackcenis, and in part by land now or formerly of Alois C. and Alice J. Schwab, 200 feet, more or less;
WESTERLY:	By land now or formerly of Walter Fittig, 220.21 feet, more or less.

TOWN CLERK OFFICE, TRUMBULL, CT
RECEIVED FOR RECORD SEP 16 2019
AT 1:46P M. ATTEST Diane D. Murphy
TOWN CLERK

STATEMENT OF USE

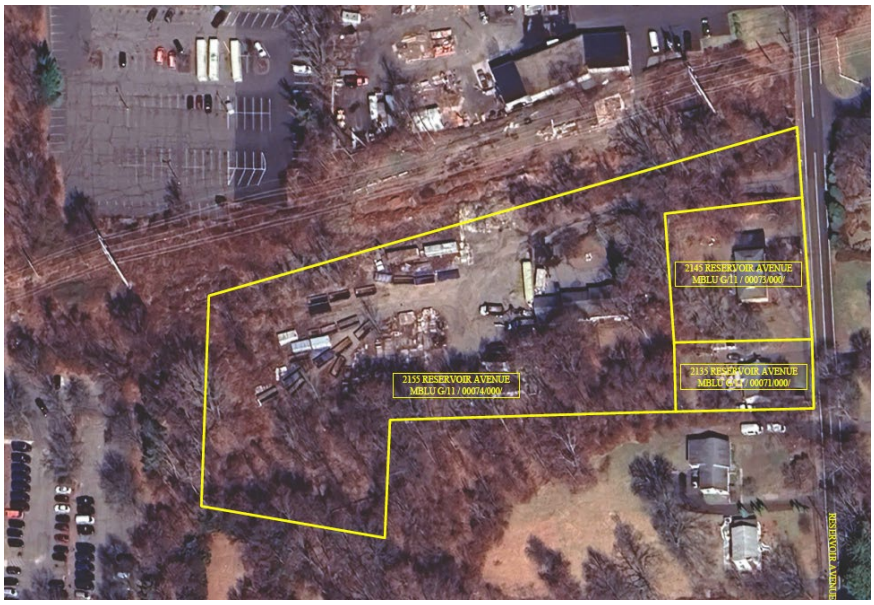
I. Introduction

The need for more homes in Trumbull is clear. According to Trumbull 2023 – 2028 Affordable Housing Plan (the "Housing Plan"), 25% of Trumbull households earn less than 80% of the area median income.[1] 84% of those households spend more than 30% of their income on housing costs. "[T]here is not enough housing to meet the need. The waiting list for persons applying to the Trumbull Housing Authority is measured in years. Hardly a day goes by that ***a current resident*** in Trumbull is not calling Town Hall to ask how they can address their housing situation."[2] To address this demonstrated need, the Housing Plan seeks "to provide for a variety of housing choices in Trumbull for people and families of all ages, incomes, and other characteristics."[3]

Vessel Technologies, Inc., the parent company of Vessel RE Holdings, LLC (together hereinafter referred to as "Vessel") intends to help Trumbull achieve this important goal. Vessel was founded to offer each person an equal opportunity for an extraordinary life by providing access to homes that are exciting, sustainable and attainably priced. Vessel leverages strategies borrowed from consumer product developers to create exceptional housing that incorporates the latest software-enabled technologies, sustainable building materials, and elegant aesthetics in apartments accessible to all. Vessel now seeks Site Plan Approval from the Town of Trumbull to build two (2) new residential buildings on the properties located at 2135, 2145 and 2155 Reservoir Avenue, Trumbull Connecticut (collectively the "Property").[4] The new buildings will contain a total of 150 apartment homes, 30% of which will be deed restricted affordable apartments in accordance with Section 8-30g of the Connecticut General Statutes (the "Statute").

Vessel is the contract purchaser of the Property, which is currently owned by LDM Associates, Lawrence F. Pace, Jr. Mark M. Pace, David G. Pace and Michael Hofbauer (with Vessel, collectively referred to as the "Applicants"). The Property is located on the westerly side of Reservoir Avenue in a "A" Residence Zone. The Property consists of approximately 3.83 acres. While the Property is improved with three (3) residential structures, a significant portion of the Property is utilized as a contractor storage/material yard. An aerial image depicting the Property is provided below:

[1] Housing Plan, pg. 4.
[2] Id (emphasis in original).
[3] Id, pg. 23.
[4] These individual properties will be consolidated upon completion of the development described herein.



Notable neighboring uses include the THRIVE Collaborative Center for Wellness at 12 Cambridge Drive, Trumbull, CT, a multi-tenanted industrial/commercial building at 2225 Reservoir Avenue and a multi-tenanted commercial building at 25 Lindeman Drive, Trumbull, CT.

II. Site Development Plan

The Applicants seek approval to develop the Property as an affordable housing development pursuant to the Statute. The existing structures on the Property will be demolished and replaced with two multi-family residential buildings ("Building 1" and "Building 2" and collectively referred to as the "New Buildings"). The New Buildings, designed by Vessel, prioritizes sustainability and affordability for current and future residents. Building 1 will contain 70 apartments homes (56 one-bedroom apartments and 4 two-bedroom apartments and 10 two-bedroom apartments with dens), and Building 2 will contain 80 apartment homes (66 one-bedroom apartments, 4 two-bedroom apartments and 10 two-bedroom apartments with dens). In accordance with the Statute, 30% of these apartments (45 in total) will be restricted to residents earning no more than 80% of the lower of the State or Area Median Income ("SMI" and "AMI").

One (1) two-way site drive is proposed along the frontage of the Property. New street trees will be planted along the entirety of the Reservoir Avenue frontage. Modern stormwater systems, including catch basins with four-foot sumps, drainage piping, hydrodynamic separators, and two and two (2) above ground detention basins, to attenuate the proposed peak discharge rate for respective drainage areas, so that the overall proposed peak flow is less than the overall existing peak flow within the entire project area. The proposed system will retain 100% of the required onsite water quality volume and provides a reduction in the peak discharge rates compared to that of existing conditions on the Property for all analyzed storm events (2-yr, 5-yr, 10-yr, 25-yr, 50-yr and 100-yr).

Recognizing the global climate crisis and the undeniable need for affordable housing, Vessel has reimagined all aspects of the way in which buildings are designed, built, and operated to expand housing opportunities without jeopardizing the environment. Vessel's patented design utilizes a façade system that is twice as energy efficient as would be required under the most stringent building codes. This significantly reduces heating and cooling demand and consequently, power consumption. Vessel's design teams also work to identify sustainable building materials with suppliers to deploy the latest, eco-friendly components and technologies. For example, Vessel does not use paint but instead uses a proprietary wall panel system that is largely recyclable. This emphasis on sustainability and energy efficiency is placed at every level of the supply chain and procurement process.

The Vessel construction process itself is also efficient, in that a Vessel site can be constructed in as little as eight to nine months, compared to the average 18-month timeline for a traditional multifamily building of a similar size. The building itself is comprised primarily of materials fabricated off-site, which are then delivered to the site in as little as ten truckloads, and subsequently erected in as little as ten days.

While design and construction are both critical in Vessel's commitment to sustainability, perhaps the greatest contribution comes from building residents' ability to control and contribute to the efficiency of their own space. Each apartment features Vessel's proprietary vOS operating system, which manages each apartment's temperature, air quality, water usage, lighting, security, and entertainment systems. The system allows residents to monitor and regulate their own energy consumption, and even offers feedback on how they can more efficiently manage their consumption. All plumbing fixtures in Vessel buildings are low-flow, and all lighting is high-efficiency LED.

1. Apartment Mix & Affordability

The anticipated unit mix includes 122 one-bedroom apartments and 28 two-bedroom apartments.

In accordance with the Statute, for at least forty (40) years after the initial occupation of the development, at least thirty percent (30%) of the units in the development will be restricted for rental at, or below, prices which will preserve the units as housing for which persons and families pay thirty percent (30%) or less of their annual income, where such income is less than or equal to eighty percent (80%) of the median income. At least fifteen percent (15%) of the units in the development will be affordable for 40 years to families earning eighty percent (80%) or less of SMI or AMI, whichever is less, and at least fifteen percent (15%) of the units will be affordable to those earning sixty percent (60%) or less of either SMI or AMI, whichever is less, in conformance with the Statute. As required by the Statute, a draft Affordability Plan is enclosed outlining the standards and requirements for the affordable housing units in the development.

2. Building Composition & Features.

Although this approval is sought under the Statute, it is important to note that the New Buildings comply with provisions of the Area & Bulk Standards applicable to development within

the "A" Residence Zone. For example, the New Buildings cover only 13.3% of the Property, well under the 25% permitted by the Zoning Regulations. Proposed Front Yard and Side Yard setbacks exceed the minimums required by the Zoning Regulations.

The New Buildings are designed to be fully compliant with all applicable building and fire safety codes. Safety measures incorporated to the construction of the New Buildings include, but are not limited to: (i) using steel framing; (ii) incorporating sprinklers and fire alarms; (iii) using non-combustible materials; (iv) providing controlled access and in-unit intrusion alarms; (vi) incorporating elevators; and (viii) employing a smart home system that provides alerts to a range of other perils (e.g., loss of water pressure and leaks), among other things.

Every apartment within the New Buildings will be constructed using universal design standards, and contains stainless steel appliances, dishwashers, in-unit washers / dryers and 9' ceilings with expansive windows and light. Each apartment will have a separate, independent multi-zoned HVAC system, providing for optimal comfort and energy efficiency. All surfaces in the unit are antimicrobial and hypoallergenic, keeping residents safe and healthy. All apartments have 24/7 air monitoring and purification, and bathrooms sterilize themselves through UVC technology.

3. Landscaping and Site Lighting

Landscaping of the site is achieved using native plants that are drought and insect resistant to ensure long-term viability, low maintenance, and which will not require on-site irrigation, while ensuring an aesthetically pleasing design both at installation and throughout the life of the development.

All site lighting is provided through solar fixtures which will be dark sky compliant and as demonstrated by the photometric plan with minimal trespass (0.1 footcandles or less) beyond the property lines. The photometric plan illustrates that the site lighting will meet all requirements and do not result in any life, safety issues.

4. Conformity of Site Plan with General Statutes § 8-30g

Below and attached are further clarifications of the proposed development and the additional information required by General Statutes § 8-30g:

a. *Affordability of Units.* For at least forty (40) years after the initial occupation of this development, 45 apartments (the "Affordable Units"), equating to 30% of apartments in the development, will be restricted to occupancy by persons whose income is at or below 80% of the lower of SMI or AMI. Specifically, of such dwelling units so restricted, 23 apartments will be restricted to occupancy by persons whose income is at or below 60% AMI/SMI (as applicable), and 22 apartments will be restricted to occupancy by persons whose income is at or below 80% AMI/SMI (as applicable). We anticipate that construction and occupancy of the New Buildings will earn Trumbull 105.25 Housing Unit Equivalency ("HUE") Points pursuant to 8-30g(l)(6) of

the Connecticut General Statutes.[5] These points will help Trumbull "[a]ccumulate sufficient [HUE Points] to be eligible for a four-year moratorium from SGS 8-30g."[6]

b. *Affordability Oversight*. Vessel, or a related entity, will be responsible for ensuring compliance with the income limits and rental restrictions imposed on the development.

c. *Affordability Plan.* See the attached Draft Affordability Plan.

d. *Affirmative Fair Housing Marketing Plan*. See draft Affirmative Fair Housing Marketing plan detailed in enclosed draft Affordability Plan.

e. *Sample of Maximum Rents*. The sample maximum rent for each unit size in the development, based on current SMI and utility allowances for 2025, is as follows:

- 1 Bedrooms:
  - 80% SMI: $1,754/month, incl. utility allowance of $115.
  - 60% SMI: $1,287/month, incl. utility allowance of $115.

- 2 Bedrooms:
  - 80% SMI: $2,108/month, incl. utility allowance of $135.
  - 60% SMI: $1,547/month, incl. utility allowance of $135.

f. *Project Sequence for Construction and Occupancy, and Nature of Construction of Affordable Units*. As provided in more detail in the Draft Affordability Plan, the Affordable Units shall be built and offered for lease on a pro rata basis as construction proceeds. Affordable Units shall be comparable in size to market rate units containing the same number of bedrooms, and shall contain the same amenities as provided as standard features to all other rental units of the same size.

g. *Draft Restrictive Covenants*. See draft Model Deed Restriction appended to enclosed draft Affordability Plan.

V. Conclusion

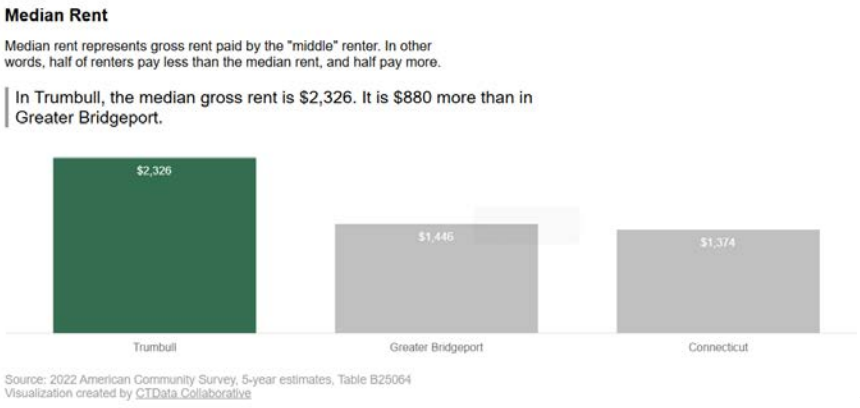
This project will provide 150 high-quality, clean, and modern affordable apartments to the Trumbull. According to the Department of Housing, only 5.37% of Trumbull's housing portfolio

[5] A HUE Chart summarizing this calculation is attached as Schedule A

[6] Housing Plan, pg. 26.

is considered affordable under State law.[7] This is consistent with the findings of the Partnership for Strong Communities ("PSC"), which shows just 5% of all homes in Trumbull are "affordable."[8]

The PSC Profile further notes that 57% of Trumbull renters are "cost burdened" (spending more than 30% of their income on housing). Of those renters, 38% are severely cost burdened (spending more than 50% of their income on housing).[9] Furthermore, according to PSC, Median Rent in Trumbull is $2,326., well above the rents for the 30% of proposed apartments to be designated to residents earning no more than the lower of 60% -80% of SMI/AMI (as applicable).



[10]

These statistics demonstrate the need for more affordable housing options in Trumbull.

The project will help Trumbull achieve important planning policies and goals. The Housing Plan recognizes the importance of providing "a diverse mix of housing."[11] This includes "options for people throughout their lives" including "smaller homes for older persons with lower maintenance needs, and housing for younger persons who will then live, work, and play here."[12] Construction of the New Buildings will also "[i]mprove water quality and stormwater management" and "[p]romote 'green' building practices" in accordance with the 2014 Plan of Conservation and Development.[13]

[7] A copy of the 2024 Affordable Housing Appeal List, which documents the percentage of Trumbull's housing stock that is considered affordable, is attached as Schedule B.
[8] 2024 Housing Data Profiles: Trumbull, a copy of which is attached as Schedule C (the "PSC Profile").
[9] See Schedule C.
[10] Graphic obtained from PSC website: https://housingprofiles.pschousing.org/profile/#Trumbull.
[11] Housing Plan, pg. 5.
[12] Housing Plan, pg. 6.
[13] 2014 Plan of Conservation and Development, pgs. 75 and 76.

Schedule A

Housing Unit-Equivalency (HUE) Points Chart
2135, 2145 and 2155 Reservoir Avenue, Trumbull, CT

Unit Type	**Quantity**	**HUE Points Per Unit Per Conn. Gen. Stat. Sec. 8-30g(l)(6).**	**HUE Points Earned**
Market Rate Units	105 Units	.25 HUE Points Per Unit	26.25
Affordable Units at 80% or less of State Median Income	22 Units	1.5 HUE Points Per Unit	33
Affordable Units at 60% or less of State Median Income	23 Units	2 HUE Points Per Unit	46
Total Points			105.25 HUE Points

Schedule B

2024 Affordable Housing Appeals list - Exempt Municipalities							
Town	2020 Census	2024 Gov Assisted	2024 Tenant Rental Assistance	2024 Single Family CHFA/ USDA Mortgages	2024 Deed Restricted Units	2024 Total Assisted Units	2024 Percent Affordable
Ansonia	8,104	232	823	152	0	1,207	14.89%
Bloomfield	9,717	645	137	309	0	1,091	11.23%
Bridgeport	58,874	7,151	4,410	813	12	12,386	21.04%
Bristol	27,251	1,919	992	1,095	0	4,006	14.70%
Danbury	33,562	1,653	1,321	369	210	3,553	10.59%
Derby	5,759	275	349	117	0	741	12.87%
E Hartford	21,361	1,671	756	1,079	0	3,506	16.41%
E Windsor	5,348	559	40	116	0	715	13.37%
Enfield	17,741	1,360	233	647	7	2,247	12.67%
Groton	18,154	3,897	101	319	10	4,327	23.83%
Hartford	53,259	11,677	9,152	1,539	0	22,368	42.00%
Manchester	26,445	1,916	974	899	32	3,821	14.45%
Meriden	26,177	2,222	1,448	1,009	11	4,690	17.92%
Middletown	21,671	3,220	1,189	490	25	4,924	22.72%
New Britain	31,510	3,041	1,672	1,189	89	5,991	19.01%
New Haven	57,525	10,139	7,764	847	343	19,093	33.19%
NewLondon	12,119	1,659	506	495	175	2,835	23.39%
Norwalk	38,152	2,606	1,641	368	738	5,353	14.03%
Norwich	18,769	2,362	844	578	0	3,784	20.16%
Plainfield	6,264	429	200	168	4	801	12.79%
Putnam	4,292	465	66	57	0	588	13.70%
Stamford	56,953	4,737	2,128	359	1268	8,492	14.91%
Torrington	17,040	992	345	612	17	1,966	11.54%
Vernon	14,761	1,539	497	344	12	2,392	16.20%
Waterbury	48,392	5,631	3,321	1,669	36	10,657	22.02%
West Haven	22,735	1,024	2,120	375	0	3,519	15.48%
Windham	9,663	1,873	642	323	0	2,838	29.37%
WindsorLocks	5,815	297	168	247	0	712	12.24%

2024 Affordable Housing Appeals list - Non-Exempt Municipalities							
Town	2020 Census	2024 Gov Assisted	2024 Tenant Rental Assistance	2024 Single Family CHFA/ USDA Mortgages	2024 Deed Restricted Units	2024 Total Assisted Units	2024 Percent Affordable
Andover	1,324	24	1	32	0	57	4.31%

Ashford	1,923	32	1	30	0	63	3.28%
Avon	7,713	244	35	39	2	320	4.15%
Barkhamsted	1,566	0	6	25	0	31	1.98%
Beacon Falls	2,618	0	8	59	0	67	2.56%
Berlin	8,571	644	45	149	4	842	9.82%
Bethany	2,039	0	1	11	0	12	0.59%
Bethel	7,980	192	36	113	82	423	5.30%
Bethlehem	1,605	24	0	7	0	31	1.93%
Bolton	2,045	0	2	36	0	38	1.86%
Bozrah	1,131	0	2	26	0	28	2.48%
Branford	14,180	260	66	132	9	467	3.29%
Bridgewater	863	0	0	2	0	2	0.23%
Brookfield	7,116	155	26	78	112	371	5.21%
Brooklyn	3,342	205	16	51	0	272	8.14%
Burlington	3,628	27	0	50	0	77	2.12%
Canaan	639	1	1	6	3	11	1.72%
Canterbury	2,044	76	1	48	0	125	6.12%
Canton	4,383	251	33	57	32	373	8.51%
Chaplin	955	0	3	26	0	29	3.04%
Cheshire	10,401	259	17	90	17	383	3.68%
Chester	1,793	23	4	12	0	39	2.18%
Clinton	6,283	105	10	61	0	176	2.80%
Colchester	6,441	364	47	139	4	554	8.60%
Colebrook	694	0	0	6	1	7	1.01%
Columbia	2,294	24	2	49	0	75	3.27%
Cornwall	1,002	28	2	6	0	36	3.59%
Coventry	5,273	103	6	128	20	257	4.87%
Cromwell	6,162	212	13	170	0	395	6.41%
Darien	7,265	161	23	0	133	317	4.36%
Deep River	2,112	44	6	29	0	79	3.74%
Durham	2,828	36	0	25	0	61	2.16%
East Granby	2,183	72	2	43	0	117	5.36%
East Haddam	4,477	73	3	61	0	137	3.06%
East Hampton	5,637	70	5	101	25	201	3.57%
East Haven	12,394	613	185	274	0	1,072	8.65%
East Lyme	9,080	452	24	80	19	575	6.33%
Eastford	806	0	1	12	0	13	1.61%
Easton	2,756	0	0	4	7	11	0.40%
Ellington	7,054	260	7	116	0	383	5.43%
Essex	3,329	75	1	16	16	108	3.24%
Fairfield	21,982	254	175	69	240	738	3.36%
Farmington	11,667	586	136	133	181	1,036	8.88%
Franklin	790	27	1	21	0	49	6.20%
Glastonbury	14,481	605	67	104	2	778	5.37%

Goshen	1,708	1	1	5	0	7	0.41%
Granby	4,448	85	2	50	3	140	3.15%
Greenwich	25,677	988	487	11	36	1,522	5.93%
Griswold	5,027	222	58	121	0	401	7.98%
Guilford	9,693	184	10	31	1	226	2.33%
Haddam	3,540	22	2	26	0	50	1.41%
Hamden	25,984	1,049	864	482	126	2,521	9.70%
Hampton	790	0	1	12	0	13	1.65%
Hartland	843	2	0	5	0	7	0.83%
Harwinton	2,313	22	6	41	5	74	3.20%
Hebron	3,618	58	2	52	0	112	3.10%
Kent	1,687	61	3	3	1	68	4.03%
Killingly	7,884	467	147	129	0	743	9.42%
Killingworth	2,601	0	1	20	1	22	0.85%
Lebanon	3,147	26	6	77	0	109	3.46%
Ledyard	6,150	32	9	206	6	253	4.11%
Lisbon	1,728	2	0	52	0	54	3.13%
Litchfield	3,966	140	4	36	19	199	5.02%
Lyme	1,220	0	0	3	8	11	0.90%
Madison	8,060	90	4	13	29	136	1.69%
Mansfield	6,956	175	166	80	2	423	6.08%
Marlborough	2,388	24	0	27	0	51	2.14%
Middlebury	3,047	77	5	17	20	119	3.91%
Middlefield	1,882	30	4	27	1	62	3.29%
Milford	23,749	824	228	148	74	1,274	5.36%
Monroe	6,918	35	4	39	8	86	1.24%
Montville	7,402	81	52	253	0	386	5.21%
Morris	1,253	20	0	5	0	25	2.00%
Naugatuck	13,239	537	305	360	0	1,202	9.08%
New Canaan	7,502	255	35	8	0	298	3.97%
New Fairfield	5,635	0	6	48	16	70	1.24%
New Hartford	2,968	12	6	51	9	78	2.63%
New Milford	11,928	319	33	136	33	521	4.37%
Newington	13,219	603	128	519	36	1,286	9.73%
Newtown	10,322	134	7	85	71	297	2.88%
Norfolk	932	38	2	6	0	46	4.94%
North Branford	5,633	62	10	50	0	122	2.17%
North Canaan	1,582	111	0	10	0	121	7.65%
North Haven	9,981	393	47	96	23	559	5.60%
NoStonington	2,226	0	2	19	8	29	1.30%
Old Lyme	4,988	64	2	10	3	79	1.58%
Old Saybrook	5,870	52	12	20	78	162	2.76%
Orange	5,480	92	21	12	6	131	2.39%
Oxford	5,022	36	6	30	0	72	1.43%

Plainville	8,045	242	53	294	22	611	7.59%
Plymouth	5,151	178	23	194	0	395	7.67%
Pomfret	1,686	32	2	11	0	45	2.67%
Portland	4,128	120	96	69	0	285	6.90%
Preston	2,049	40	6	33	0	79	3.86%
Prospect	3,762	0	4	56	55	115	3.06%
Redding	3,664	0	3	14	0	17	0.46%
Ridgefield	9,506	175	6	22	79	282	2.97%
Rocky Hill	9,319	235	66	143	0	444	4.76%
Roxbury	1,163	19	0	4	0	23	1.98%
Salem	1,719	0	2	25	0	27	1.57%
Salisbury	2,519	24	1	1	14	40	1.59%
Scotland	650	0	0	23	0	23	3.54%
Seymour	7,112	262	32	109	0	403	5.67%
Sharon	1,724	32	1	3	0	36	2.09%
Shelton	17,174	432	87	135	82	736	4.29%
Sherman	1,834	0	1	5	0	6	0.33%
Simsbury	10,057	289	66	101	28	484	4.81%
Somers	3,622	146	7	35	0	188	5.19%
South Windsor	10,804	443	55	197	12	707	6.54%
Southbury	9,270	90	6	35	0	131	1.41%
Southington	18,145	499	59	363	66	987	5.44%
Sprague	1,268	20	13	23	1	57	4.50%
Stafford	5,237	257	25	119	0	401	7.66%
Sterling	1,479	0	7	24	0	31	2.10%
Stonington	9,447	484	23	69	14	590	6.25%
Stratford	21,643	524	439	360	33	1,356	6.27%
Suffield	5,879	296	5	63	4	368	6.26%
Thomaston	3,340	104	7	105	0	216	6.47%
Thompson	4,143	151	14	36	0	201	4.85%
Tolland	5,630	127	9	123	3	262	4.65%
Trumbull	13,159	315	15	83	293	706	5.37%
Union	377	0	0	4	0	4	1.06%
Voluntown	1,135	20	2	23	0	45	3.96%
Wallingford	18,938	482	149	280	35	946	5.00%
Warren	790	0	0	1	0	1	0.13%
Washington	2,056	17	1	3	28	49	2.38%
Waterford	8,873	253	41	236	16	546	6.15%
Watertown	9,137	205	33	235	0	473	5.18%
West Hartford	27,240	774	852	319	245	2,190	8.04%
Westbrook	3,976	140	7	26	29	202	5.08%
Weston	3,671	0	1	6	0	7	0.19%
Westport	10,567	265	55	1	99	420	3.97%
Wethersfield	11,809	748	113	269	0	1,130	9.57%

Willington	2,685	184	6	33	0	223	8.31%
Wilton	6,567	159	12	12	63	246	3.75%
Winchester	5,405	269	137	122	0	528	9.77%
Windsor	12,038	154	243	466	26	889	7.38%
Wolcott	6,408	313	8	195	0	516	8.05%
Woodbridge	3,476	30	8	5	0	43	1.24%
Woodbury	4,584	60	4	37	0	101	2.20%
Woodstock	3,669	24	1	23	0	48	1.31%
Totals	1,530,197	98,830	50,353	27,914	5768	182,865	

Schedule C

2024 Housing Data Profiles

TRUMBULL

PARTNERSHIP FOR STRONG COMMUNITIES

KEY FINDINGS

Housing

5%
of housing is subsidized

10%
of all homes occupied by renters

10%
of housing units are in multifamily buildings

Affordability

16%
of households spend between 30% and 50% of their income on housing

14%
of households spend more than half of their income on housing

$31.77
the hourly wage needed to afford a 2-bedroom apartment

Population

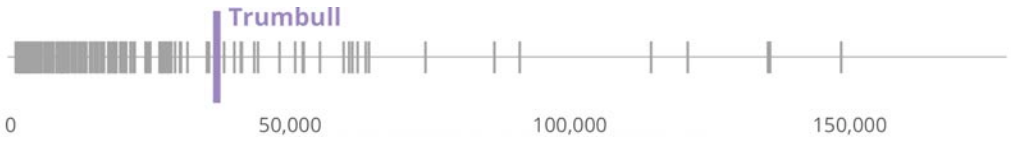
43
the median age of residents

21%
of residents are people of color (BIPOC)

+1.8%
population change between 2020 and 2023

HOW TO READ THIS REPORT

Throughout this report, a series of graphs like the one below are used to show how **Trumbull** compares to **other towns** in the state on a variety of measures.



ABOUT THE HOUSING DATA PROFILES

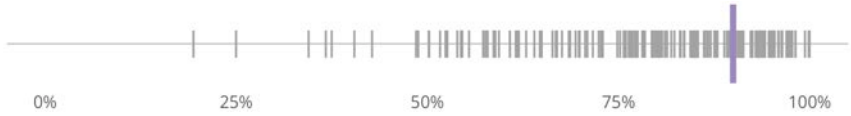
The Partnership for Strong Communities' Housing Data Profiles are a free resource to help Connecticut residents, developers, legislators, municipal officials, and others make data-informed decisions. Profiles are available for every town and Council of Governments in the state. To learn more, please visit **pschousing.org** or **housingprofiles.pschousing.org** to view the interactive version of the profiles.

DATA NOTES

Data comes from the 2018-2022 American Community Survey unless stated otherwise. Percentages may differ slightly or not sum to exactly 100% due to rounding.

SINGLE-FAMILY HOMES AS PERCENT OF ALL HOMES

90%

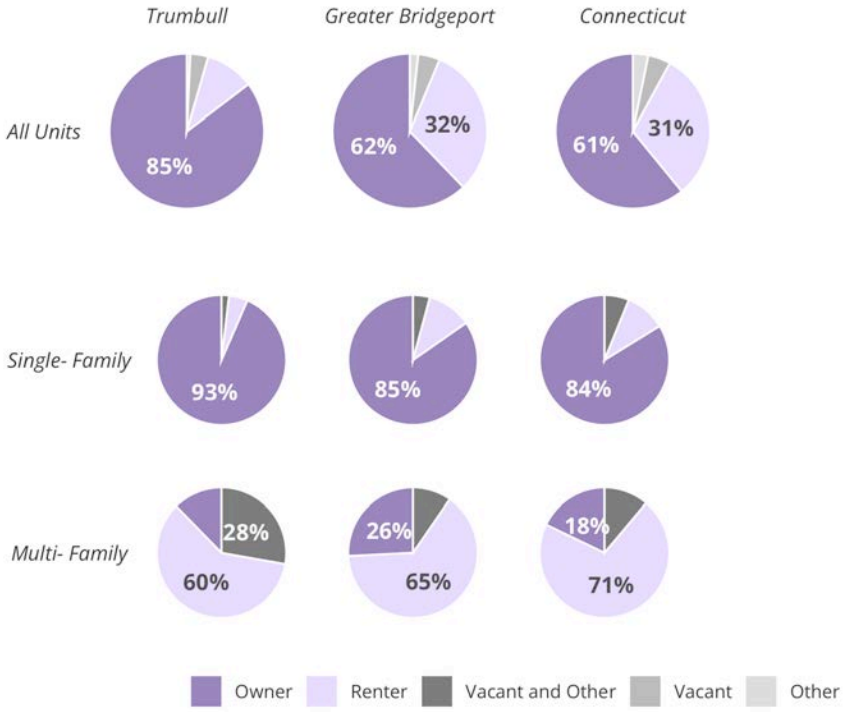


PERCENT OF ALL HOMES OCCUPIED BY OWNERS

85%

Overall, 65% of Connecticut's occupied housing stock is comprised of single-family housing, while 35% is multifamily housing (2+ units in structure). Most single-family homes are occupied by homeowners, while most multifamily units are occupied by renters.

In Trumbull, 90% of occupied homes are single-family, and 10% are multi-family. Owners live in 93% of Trumbull's 11,135 single-family homes, and renters live in 60% of its 1,239 multifamily homes.



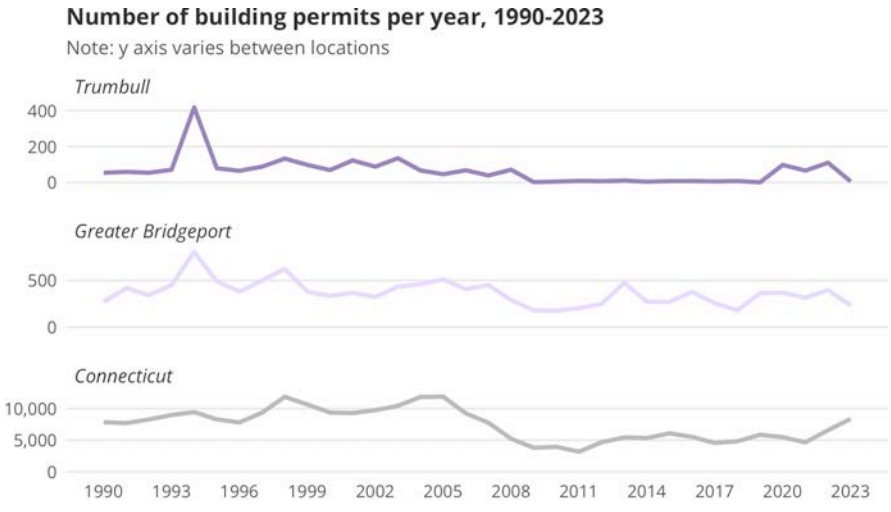
Vacant units include units that are for rent and other vacant units, and Other units include units that are rented but not occupied, for sale, sold but not occupied, for seasonal/recreational/occasional use, and for migrant workers.

CHANGE IN BUILDING PERMITS, 1990-2023

-89%

Growth is slow in the state, which has seen a 7% decrease in building permits between 1990 and 2023.

In Trumbull, there were 54 building permits issued in 1990, compared to 6 issued in 2023, representing a 89% decrease.

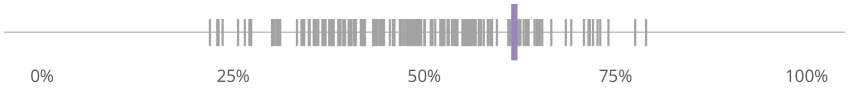


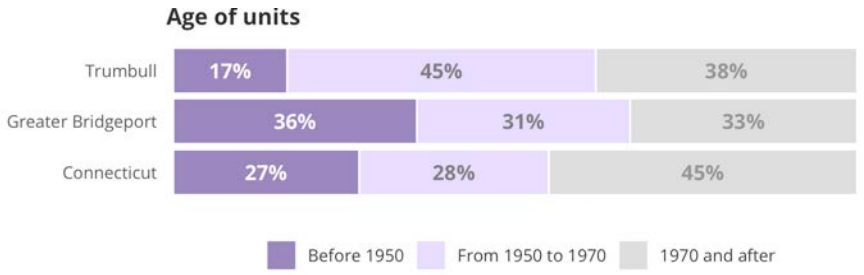
Source: Connecticut Department of Economic and Community Development

UNITS BUILT BEFORE 1970

62%

Older homes are prone to falling into disrepair, and often carry environmental risks such as lead paint. An aging housing stock can be a sign of poor housing quality.

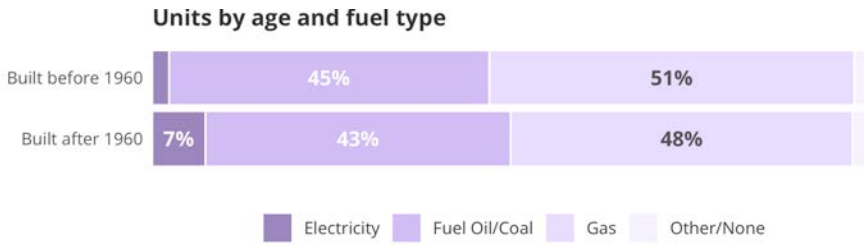




SPENDING ON ENERGY AS PERCENT OF TOTAL INCOME

2.8%

Households that use electricity spend 3.1% of their income on energy (3.0% for fuel oil/coal and 2.7% for gas).



Source: United States Department of Energy

AFFORDABLE HOMES AS A SHARE OF ALL HOUSING UNITS

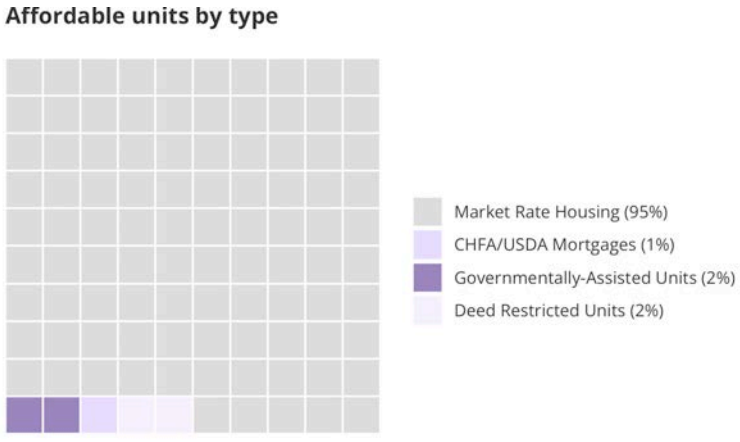
5%

The CT Department of Housing calculates the percentage of affordable units in a municipality annually for the Affordable Housing Appeals List. Affordable units are units that are subsidized below market-rate through programs like Housing Choice Vouchers or CHFA/USDA mortgages.

Of the 13,159 total units in Trumbull, 685 are considered to be affordable.



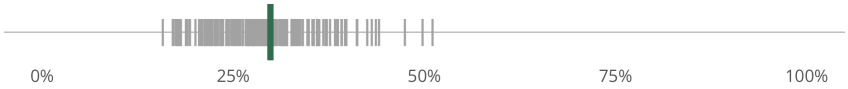
Source: Connecticut Department of Housing



Source: Connecticut Department of Housing

PEOPLE BURDENED BY COST OF HOUSING

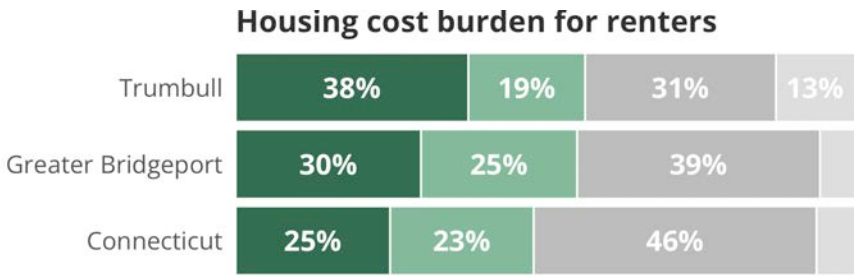
30%



Households that are cost-burdened spend more than 30% of their income on housing. Severely cost-burdened spend more than 50% on housing.

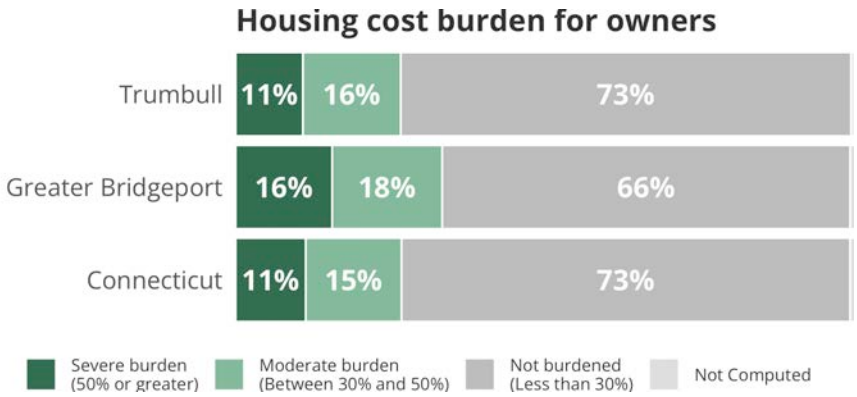
RENTERS BURDENED BY COST OF HOUSING

57%



OWNERS BURDENED BY COST OF HOUSING

27%

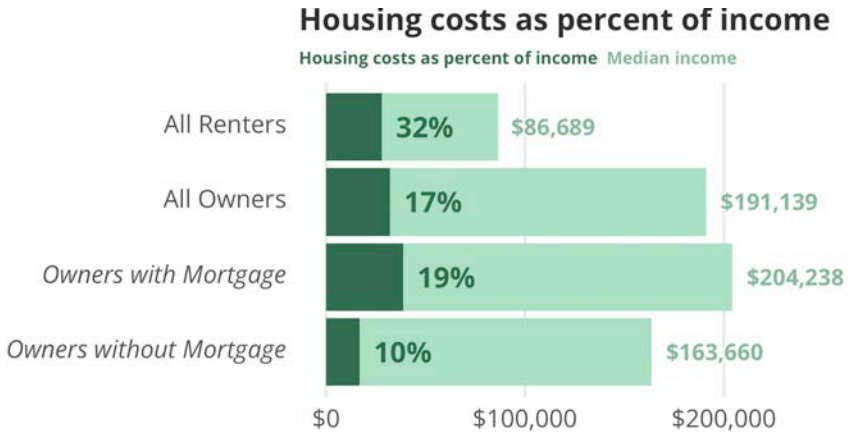


RENTERS' HOUSING COSTS AS PERCENT OF INCOME

32%

OWNERS' HOUSING COSTS AS PERCENT OF INCOME

17%



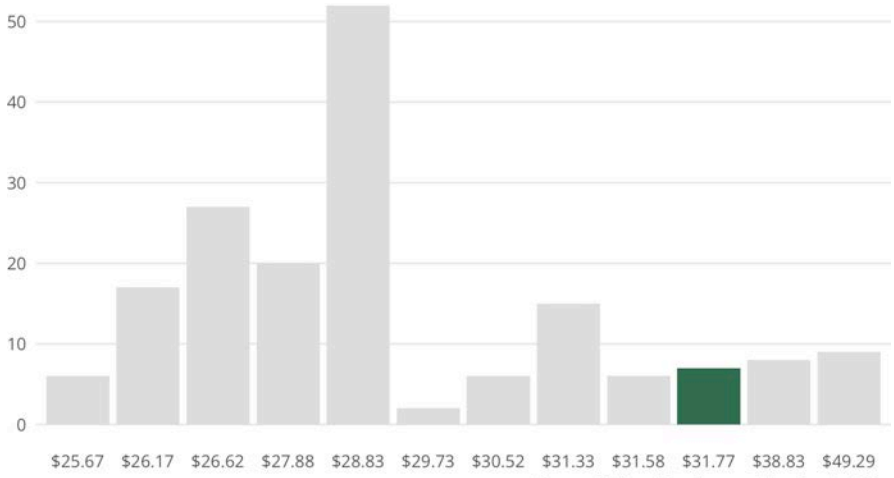
HOUSING WAGE

$31.77

Each year, the National Low Income Housing Coalition calculates the "housing wage," the hourly wage needed to afford a two-bedroom rental home without paying more than 30% of income on housing.

Trumbull is included in the Bridgeport HMFA. Trumbull's housing wage is lower than the state housing wage of $31.93.

Trumbull is one of 7 towns with a housing wage of $31.77



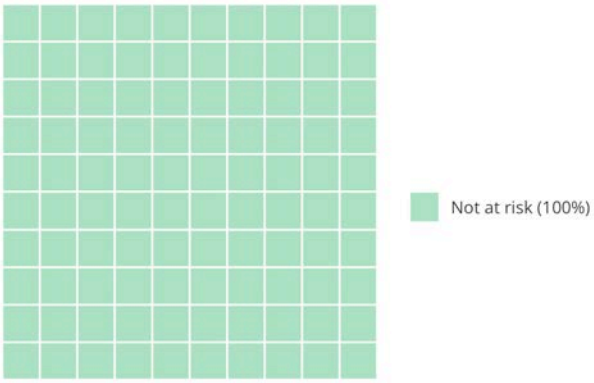
Source: National Low Income Housing Coalition

HOUSING PRESERVATION UNITS

0%

Trumbull has 138 federally assisted housing units, of which 0% are at risk of loss within the next 5 years.

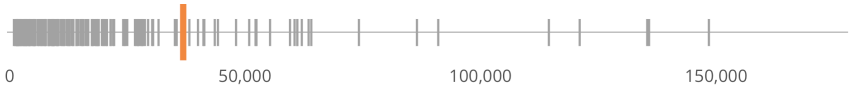
Housing preservation by risk



Source: National Housing Preservation Database

TOTAL POPULATION

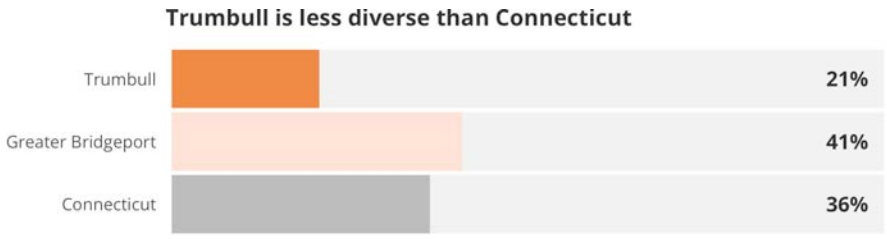
36,922

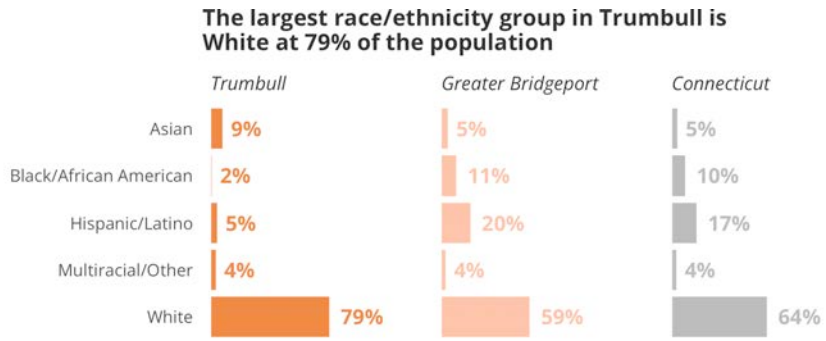


PEOPLE OF COLOR

21%

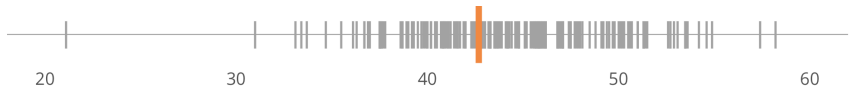
Connecticut population is becoming increasingly diverse, but the BIPOC population is concentrated in certain municipalities, especially Connecticut's cities. In Trumbull, 21% of residents are BIPOC, while 79% are white.





MEDIAN AGE

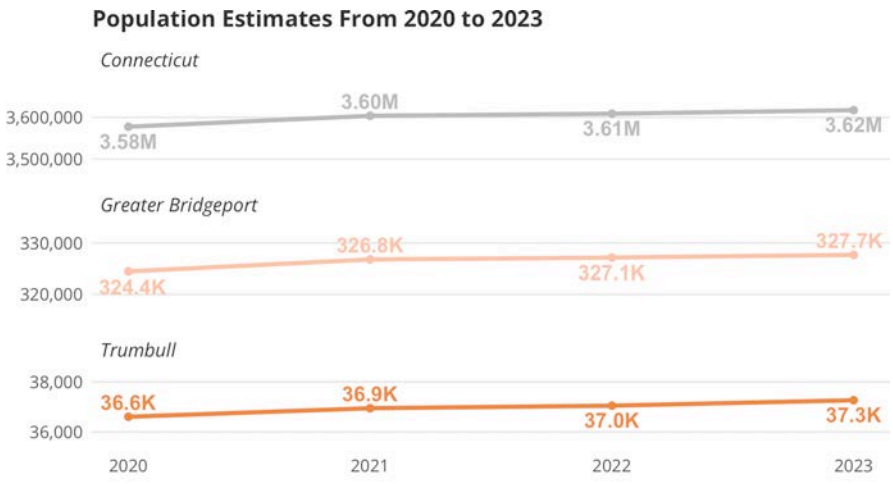
42.7



POPULATION ESTIMATES, 2020 TO 2023

+1.8%

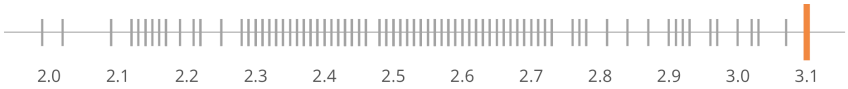
From 2020 to 2023, Trumbull's population inscreased from 36,607 to 37,269.



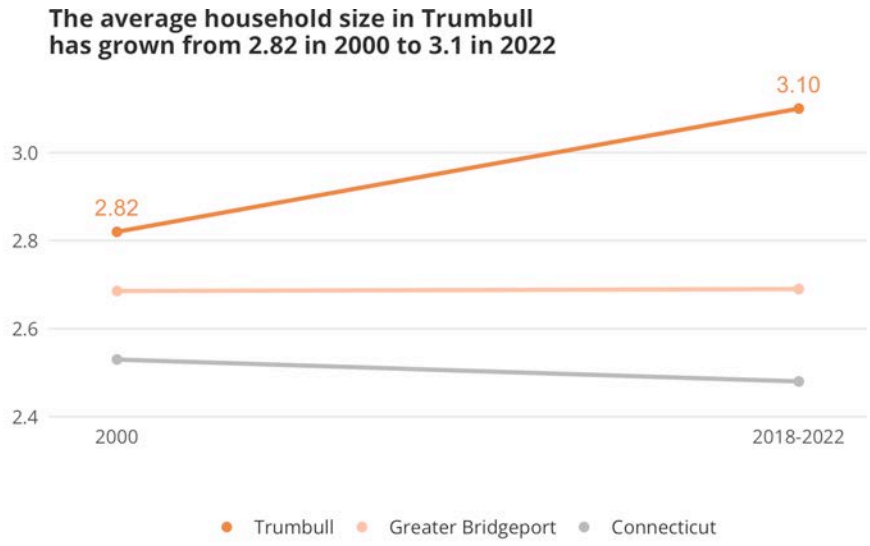
Source: Connecticut Department of Public Health

AVERAGE HOUSEHOLD SIZE

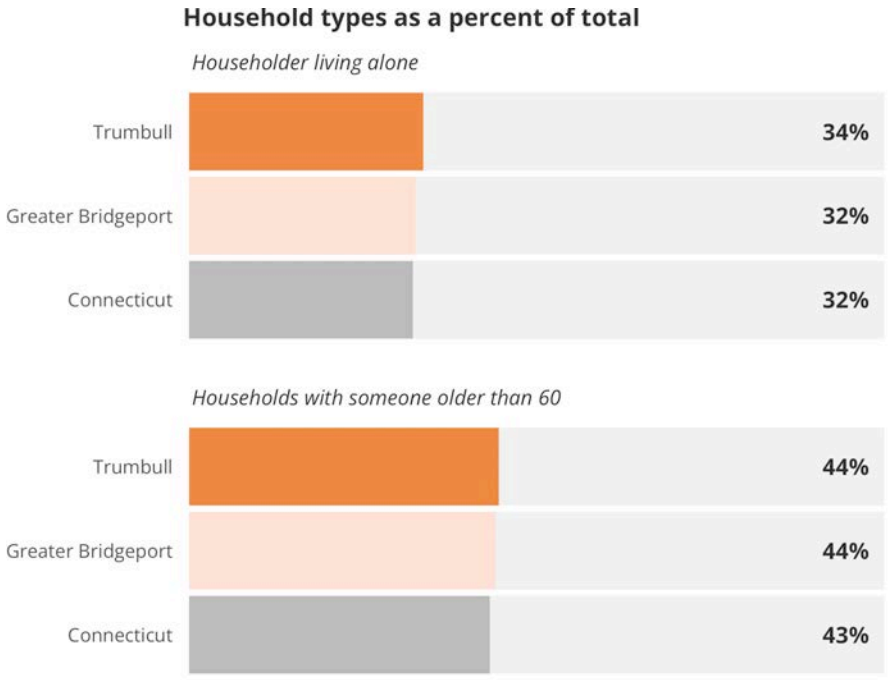
3.10



The average household size in Trumbull has grown between 2000 and 2022.



Understanding who lives in our towns provides insight into the housing and service needs for each community such as accessibility, transportation, child care, and education. Compared to Connecticut, Trumbull has more households with someone older than 60 and households with school-age children.



Departmental Application Sign-off

for receipt of Special Permit/Site Plans prior to scheduled Planning & Zoning Commission Public Hearing

(not to be confused with sign-off for application approval).

Return to Planning & Zoning Office when completed.

Location of Premises: _____

Permit Application Number: _____

Required:

( ) **Planning** Rina Bakala **Date:** 11/13/25

( ) **Zoning** Rina Bakala **Date:** 11/13/25

( ) **Engineering** _____ **Date:** 11-12-2025

( ) **Inland Wetlands** _____ **Date:** "

( ) **W.P.C.A.** _____ **Date:** "

( ) **Health Dept.** _____ **Date:** _____

( ) **Fire Marshal** _____ **Date:** 11/13/25

( ) **Police Dept.** _____ **Date:** 11-10-25

( ) **Building Dept.** _____ **Date:** 11/13/25

Subject Building of apartments at 2135 Reservoir

From juanayala <juanayala704@aol.com>

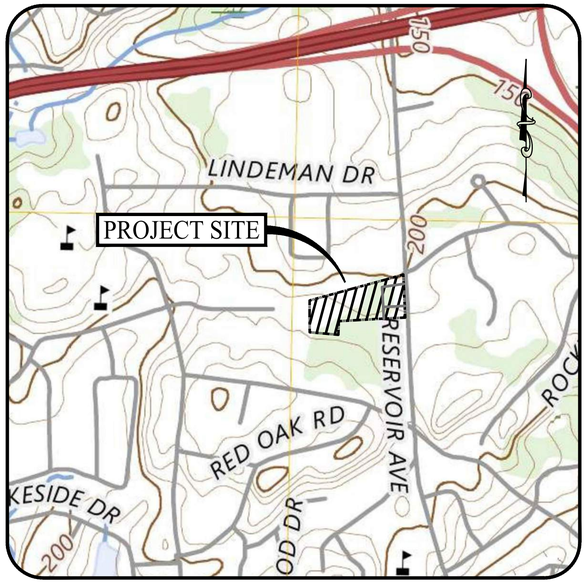
To: <afarell@trumbull-ct.gov>

Date Dec 7 at 11:37 AM

I strongly opposed developing the site for 150 apartments. Reservoir ave is not an avenue. Reservoir is a narrow rural street where the city bus hardly fits in. Reservoir has thousands of cars that are already circulating this narrow road. There are multiple apartments already using the road. We have The Hawthorne, Middle Brook farms, the Royce, Maefaer ECF, the houses from Rocky hill. Also multiple apartments feeding onto Reservoir from Lyndeman road. Not to mention the special education facilities with all the students and staff using Reservoir. It would be negligent and irresponsible to add more traffic to this area. This construction must not happen.

Sincerely,
Juan D Ayala
2160 Reservoir Ave.

Sent from the all new AOL app for iOS



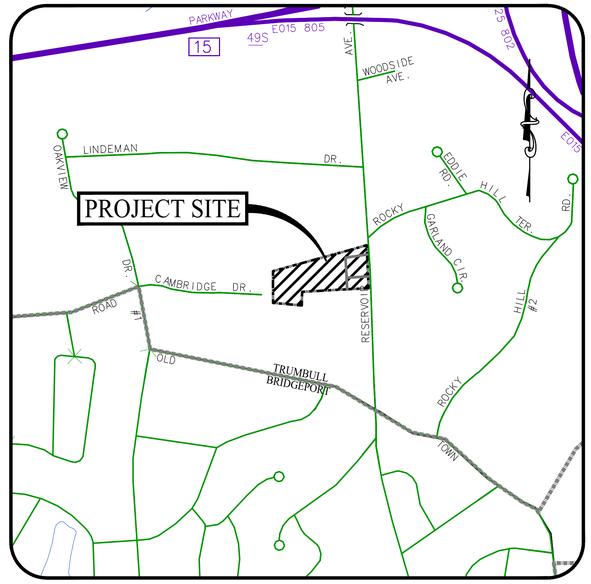
USGS MAP

SCALE: 1" = 500'

PROPOSED MULTI-FAMILY RESIDENTIAL REDEVELOPMENT

2135, 2145, 2155 RESERVOIR AVENUE
TRUMBULL, CONNECTICUT

SITE PLAN APPLICATION



LOCATION MAP

SCALE: 1" = 500'

PREPARED FOR:

VESSEL TECHNOLOGIES

46 WEST 55TH STREET
NEW YORK, NEW YORK

PROPERTY INFORMATION

ADDRESS: 2135, 2145, 2155 RESERVOIR AVENUE
ZONE: RESIDENCE ZONE A
TOTAL AREA: 3.57 AC
MAP-BLOCK-LOT: G/11-71-000, G/11-73-000, G/11-74-000
BOOK/PAGE: 1794/0735

SITE/CIVIL ENGINEER

KEVIN SOLLI, P.E., CPESC, LEED AP BD+C
LICENSE NO. 25759
SOLLI ENGINEERING, LLC
501 MAIN STREET
MONROE, CONNECTICUT 06468
(203) 880-5455

APPLICANT

VESSEL TECHNOLOGIES
ATTN: JOSH LEVY
46 WEST 55TH STREET
NEW YORK, NEW YORK
(646) 531-2126

SURVEYOR OF RECORD

BRYAN NESTERIAK, PE, LS
ACCURATE LAND SURVEYING, LLC
15 RESEARCH DRIVE
WOODBRIDGE, CONNECTICUT 06525
(203) 881-8145

GEOTECHNICAL ENGINEER

GEI CONSULTANTS, INC.
455 WINDING BROOK DRIVE, SUITE 201
GLASTONBURY, CONNECTICUT 06033
(860) 368-5300

LANDSCAPE DESIGNER

MARY BLACKBURN, PLA
LICENSE NO. 1499
SOLLI ENGINEERING, LLC
501 MAIN STREET
MONROE, CONNECTICUT 06468
(203) 880-5455

ARCHITECT

MILTON GREGORY GREW, AIA
241 MAIN STREET S
WOODBURY, CONNECTICUT 06798
(203) 217-1074

DRAWING LIST

SITE CIVIL DRAWINGS

SHEET #	SHEET NAME	PLAN DATE	LATEST REVISION
0.00	COVER SHEET	11/07/25	N/A
1 OF 1	PROPERTY SURVEY	07/24/25	N/A
1.40	250' RADIUS MAP	11/07/25	N/A
2.11	SITE PLAN	11/07/25	N/A
2.21	GRADING & DRAINAGE PLAN	11/07/25	N/A
2.31	SOIL EROSION & SEDIMENT CONTROL PLAN - PHASE I	11/07/25	N/A
2.32	SOIL EROSION & SEDIMENT CONTROL PLAN - PHASE II	11/07/25	N/A
2.41	SOIL EROSION & SEDIMENT CONTROL NOTES & DETAILS	11/07/25	N/A
2.51	UTILITY PLAN	11/07/25	N/A
2.61	LANDSCAPE PLAN	11/07/25	N/A
2.62	LANDSCAPE DETAILS	11/07/25	N/A
2.71	LIGHTING PLAN	11/07/25	N/A
3.01	DETAIL SHEET	11/07/25	N/A
3.02	DETAIL SHEET	11/07/25	N/A
3.03	DETAIL SHEET	11/07/25	N/A
3.04	DETAIL SHEET	11/07/25	N/A
TT-1	TRUCK TURNING FIGURE	11/07/25	N/A

ARCHITECTURAL DRAWINGS

UNDER SEPARATE COVER

PREPARED BY:

SOLLI ENGINEERING

MONROE, CT | WEST HARTFORD, CT | NORWOOD, MA

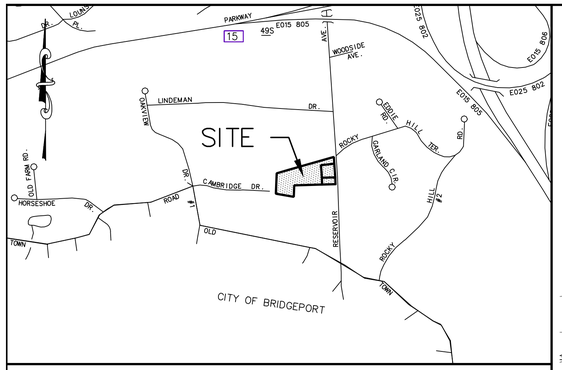
NOT FOR CONSTRUCTION,
FOR PERMITTING PURPOSES ONLY

Rev. #:	Date	Description

Project:

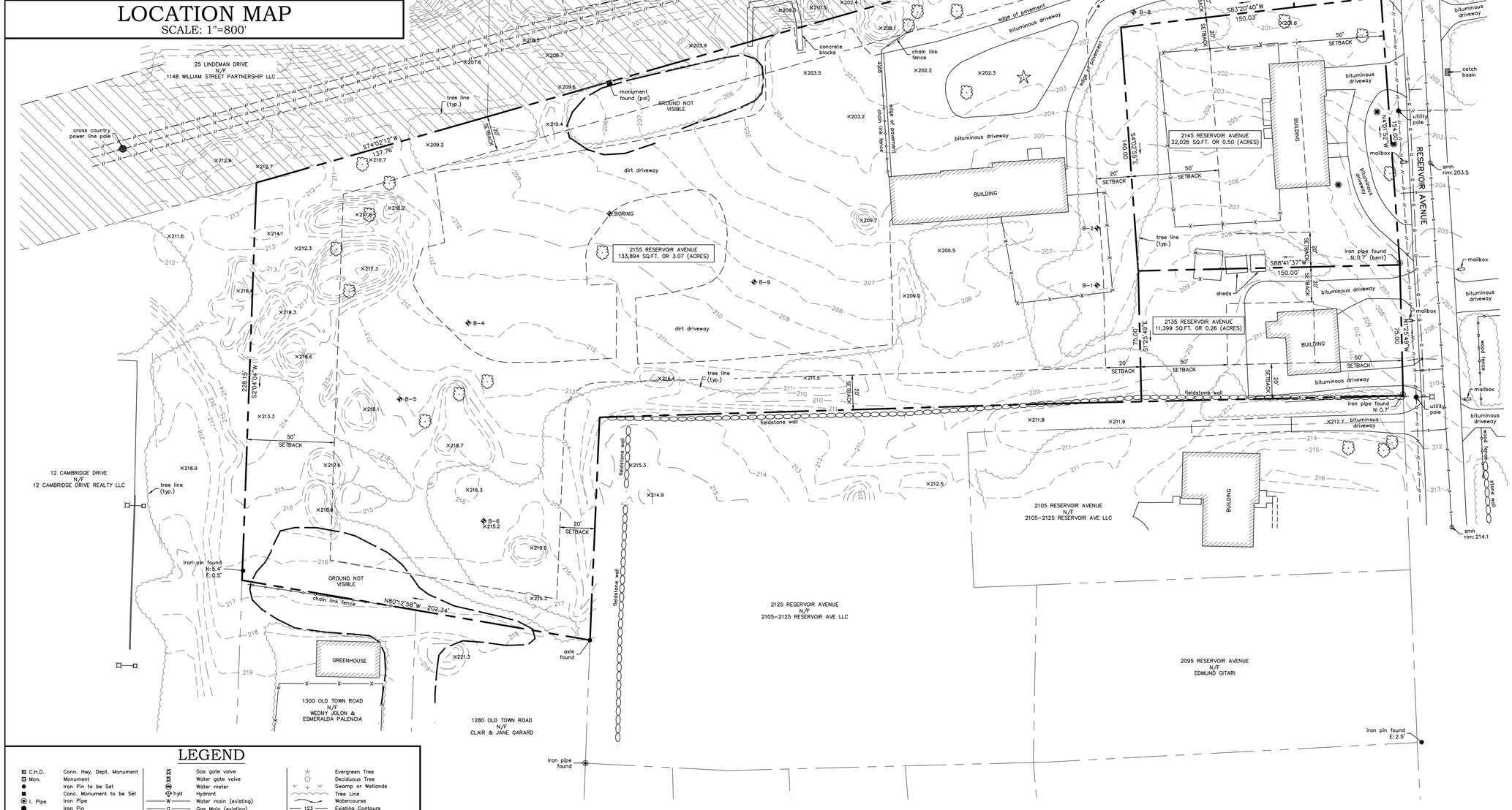
PROPOSED REDEVELOPMENT
2135, 2145, 2155 RESERVOIR AVENUE
TRUMBULL, CONNECTICUT

Sheet Title:	Sheet #:
COVER SHEET	0.00



LOCATION MAP

SCALE: 1"=800'



GENERAL SURVEY NOTES

1. THIS SURVEY AND MAP HAS BEEN PREPARED IN ACCORDANCE WITH THE REGULATION OF CONNECTICUT STATE AGENCIES, SECTION 20–300b–1 THROUGH 20–300b–20, EFFECTIVE OCTOBER 26, 2018, AND THE "MINIMUM STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC.
2. THE BOUNDARY DETERMINATION SHOWN HEREON IS CONSIDERED A RESURVEY.
3. TOPOGRAPHIC DATA WERE OBTAINED FROM A PHOTOGRAMMETRIC SURVEY MAP HAVING ASPRS/NMAS CLASS 2 ACCURACY, PROVIDED BY GOLDEN AERIAL SURVEYS, INC. THE DATE OF AERIAL PHOTOGRAPHY USED WAS APRIL 2016. CONTOURS AND ELEVATIONS REFER TO NAVD 88 DATUM. ANY AREAS LISTED AS GROUND NOT VISIBLE WERE UNOBTAINABLE BY GOLDEN AERIAL DUE TO DENSE VEGETATION AND WERE INTERPOLATED AND SHOULD BE CONSIDERED CLASS T–D.
4. BEARINGS, COORDINATES AND ELEVATIONS ARE DERIVED FROM THE CONNECTICUT GEODETIC SURVEY (CTGS) VIA GPS TECHNOLOGY AND CONVENTIONAL SURVEY METHODS.
5. THIS IS A PROPERTY SURVEY. THE PURPOSE OF WHICH IS TO SHOW EXISTING CONDITIONS.
6. PROPERTIES ARE ALSO KNOWN AS TOWN OF TRUMBULL TAX LOTS 71, 73 & 74 ON ASSESSORS MAP G11.
7. TOTAL AREA = 167,319 SQ.FT. OR 3.83 ACRES
   2135 RESERVOIR AVENUE = 11,399 SQ.FT. OR 0.26 ACRES
   2145 RESERVOIR AVENUE = 22,026 SQ.FT. OR 0.50 ACRES
   2155 RESERVOIR AVENUE = 133,894 SQ.FT. OR 3.07 ACRES
8. PROPERTIES LIE IN ZONING DISTRICT "A".
9. PROPERTIES DO NOT LIE WITHIN A FLOOD HAZARD ZONE AS DETERMINED BY FEMA.
10. THE LOCATION OF UNDERGROUND UTILITIES SHOULD BE CONSIDERED APPROXIMATE AND OTHER THAN DEPICTED HEREON, IF ANY, IS UNKNOWN.

MAP REFERENCES

1. PLAN ENTITLED "MAP SHOWING PROPERTY OF GUSTAVE & CHRISTINE A. VOIGHT TO BE ACQUIRED BY ALOIS C. & ALICE J. SCHWAB OLD TOWN ROAD TRUMBULL, CONNECTICUT", SCALE 1"=50', DATED: NOVEMBER 6, 1951, BY EUGENE STEPHEN HAYES. ON FILE IN THE TOWN OF TRUMBULL CLERK'S OFFICE AS MAP 463.
2. PLAN ENTITLED "MAP SHOWING PROPERTY OF GUSTAVE & CHRISTINE A. VOIGHT TO BE ACQUIRED VINCENT J. & CATHERINE I. JAKUCENIS OLD TOWN ROAD TRUMBULL, CONNECTICUT", SCALE 1"=50', DATED: NOVEMBER 6, 1951, BY EUGENE STEPHEN HAYES. ON FILE IN THE TOWN OF TRUMBULL CLERK'S OFFICE AS MAP 464.
3. PLAN ENTITLED "MAP OF LOTS IN TRUMBULL, CONNECTICUT FOR PETER F. MILLER", SCALE 1"=40', DATED: OCTOBER 17,1959. ON FILE IN THE TOWN OF TRUMBULL CLERK'S OFFICE AS MAP 931.
4. PLAN ENTITLED "SUBDIVISION OF PROPERTY IN TRUMBULL, CONNECTICUT FOR LEDU LAMP DIVISION WASOMARK, INC", SCALE 1"=40', DATED: APRIL 2, 1979. BY FULLER & CO; INC. ON FILE IN THE TOWN OF TRUMBULL CLERK'S OFFICE AS MAP 2062.
5. PLAN ENTITLED "SUBDIVISION OF PROPERTY IN TRUMBULL, CONNECTICUT FOR LEDU LAMP DIVISION WASOMARK, INC", SCALE 1"=40', DATED: , REVISED: JANUARY 14, 1981 BY CARROCCIO & CARSON CONSULTING ENGINEERS, INC. ON FILE IN THE TOWN OF TRUMBULL CLERK'S OFFICE AS MAP 2165.

LEGEND

C.H.D.	Conn. Hwy. Dept. Monument	Gas gate valve	Evergreen Tree
Mon.	Monument	Water gate valve	Deciduous Tree
●	Iron Pin to be Set	Water meter	Swamp or Wetlands
■	Conc. Monument to be Set	hyd Hydrant	Tree Line
I. Pipe	Iron Pipe	W Water main (existing)	Watercourse
●	Iron Pin	G Gas Main (existing)	123 Existing Contours
D.H.	Drill Hole	SD Underground Storm Drain Pipes	R.C.P. Reinforced Concrete Pipe
Fnd.	Found	S Sanitary Sewer Main (existing)	C.M.P. Corrugated Metal Pipe
N/F	Now or Formerly	E Electrical Line (existing)	PT A Percolation Test Location
	Property Line	// Overhead Wires	TP 100 Deep Test Pit Location
	Property Line (adjoining)	S Sanitary Manhole	Stone Retaining Wall
	Building Setback Line	D Drain Manhole	Retaining Wall
	Easement Line	E Electric Manhole	Stone Wall
	Edge of water	T Telecom Manhole	Wetland Limit
	FEMA Flood Zone	U Unknown Manhole	WL Wetland Flag Number
BFE:	Base Flood Elevation	Chain Link or Split Rail Fence	Wetland Setback
×200.0	Existing Spot Elevation	Metal/Wire Fence	Benchmark
	Building (existing)	Wooden or Vinyl Fence	Monitoring Well
		Utility Pole with lamp	INV: Invert Elevation of Pipe
		Utility Pole	Existing Catch Basin/Pipe

No.	Date	REVISION DESCRIPTION

SCALE: 1"=30'

0 15 30 60 90

ACCURATE LAND SURVEYING, LLC
15 Research Drive, Woodbridge, CT 06525, Tel: 203.881.8145
501 Main Street, Monroe, CT 06468, Tel: 203.880.5455

PROPERTY SURVEY

OF

2135, 2145 & 2155 RESERVOIR AVENUE
TRUMBULL, CONNECTICUT

PREPARED FOR
VESSEL TECHNOLOGIES

STATE OF CONNECTICUT · BRYAN P. NESTERIAK · 23556 · LICENSED LAND SURVEYOR

TO THE BEST OF MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

BRYAN P. NESTERIAK, PE, LS 23556

Date	7/28/2025
Scale	1"=30'
Job No.	1595
Drawing No.	1 of 1

THIS DOCUMENT, THE IDEAS, AND DESIGN INCORPORATED HEREON IS AN INSTRUMENT OF PROFESSIONAL SERVICE AND THE PROPERTY OF ACCURATE LAND SURVEYING, LLC. AND IS NOT TO BE REPRODUCED OR USED IN WHOLE OR IN PART FOR ANY EXTENSION OF THIS PROJECT OR FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF ACCURATE LAND SURVEYING, LLC. THIS DRAWING IS NOT A FINAL AND VALID DOCUMENT WITHOUT A SIGNATURE OF THE CERTIFYING PROFESSIONAL AND A LIVE WET STAMP OR EMBOSSED SEAL.

PS, 2135, 2145 & 2155 RESERVOIR AVENUE, TRUMBULL, CT.



LEGEND

- PROPERTY LINE
- ADJOINING LOT LINE
- LIMIT OF 250' RADIUS FROM PROPERTY
- ZONE LINE

Rev. #: Date Description

Graphic Scale: 60 0 60 120

SOLLI ENGINEERING
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Drawn By:	BPD
Checked By:	ARM
Approved By:	KMS
Project #:	24116901
Plan Date:	11/07/25
Scale:	1" = 60'

STATE OF CONNECTICUT · KEVIN M. SOLLI · 25759 · LICENSED PROFESSIONAL ENGINEER

Kevin Solli, P.E.
CT 25759

Project:

PROPOSED REDEVELOPMENT

2135, 2145, & 2155 RESERVOIR AVENUE
TRUMBULL, CONNECTICUT

Sheet Title: 250' RADIUS MAP

Sheet #: 1.40

Nov 06, 2025 – 4:18pm amopoulos
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LEGEND

- PROPERTY LINE
- ADJOINING LOT LINE
- BUILDING SETBACK
- LIMIT OF EASEMENT
- EXISTING BUILDING LIMITS
- PROPOSED BUILDING LIMITS
- PROPOSED BUILDING HATCH
- SAWCUT PAVEMENT LINE
- BITUMINOUS CONCRETE CURB
- STANDARD DUTY BITUMINOUS CONCRETE PAVEMENT
- CONCRETE SIDEWALK / PAVEMENT
- SIDEWALK LIMITS / EDGE OF PAVEMENT
- RETAINING WALL
- PAVEMENT STRIPING - WHITE STANDARD AND ADA PARKING SPACES
- (17) PARKING SPACE COUNT
- PROPOSED FUTURE ELECTRIC VEHICLE CHARGING SPACE
- DUMPSTER / TRASH RECEPTACLE
- TRAFFIC SIGN
- TRAFFIC SIGN DESIGNATION
- COMPACT SPACE
- DIRECTION OF TRAVEL

PARKING SUMMARY

PROPOSED DEVELOPMENT	UNIT	REQUIRED*	PROVIDED
APARTMENT BUILDING #1	56 1-BR UNITS 14 2-BR UNITS	84 SPACES	178* (1.19 SPACES/UNIT)
APARTMENT BUILDING #2	66 1-BR UNITS 14 2-BR UNITS	94 SPACES	

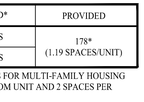
*COMPLIES WITH ITE PARKING GENERATION ESTIMATES, PARKING REQUIREMENTS FOR MULTI-FAMILY HOUSING PER CT GENERAL STATUTES SEC. 8-2(D)(9), WHICH REQUIRES 1 SPACE PER 1-BEDROOM UNIT AND 2 SPACES PER 2-BEDROOM UNIT.

BULK ZONING TABLE

DESCRIPTION	EXISTING TOWN REQUIREMENT (RESIDENTIAL ZONE A)	PROPOSED 830-g CONDITION CONSOLIDATED LOTS
MINIMUM LOT SIZE	0.5 AC.	3.83 AC.
MINIMUM ROAD FRONTAGE	125 FT	305 FT
MINIMUM FLOOR AREA		
1 STORY	1ST FLOOR: 1,200 SF 2ND FLOOR: N/A	N/A
1.5 STORY	1ST FLOOR: 900 SF 2ND FLOOR: 500 SF	N/A
2 STORY	1ST FLOOR: 900 SF 2ND FLOOR: 800 SF	N/A
MAXIMUM BUILDING HEIGHT	40 FT	±58 FT
MINIMUM YARDS		
FRONT	50 FT	86.8± FT
SIDE	20 FT	15.7± FT
REAR	50 FT	19.8± FT
MAXIMUM BUILDING COVERAGE	25%	14.9%
MAXIMUM FLOOR AREA RATIO	0.29	0.74
LOT COVERAGE	N/A	44.5%

SIGN LEGEND

A



SIZES (IN)	CONN DOT #	SUPPORTS
30"	31-0552	1

B



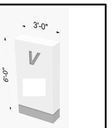
SIZES (IN)	CONN DOT #	SUPPORTS
12"x24"	31-0662	1

C



SIZES (IN)	CONN DOT #	SUPPORTS
12"x24" 18"x9"	31-0662 31-0648	1

D



36" L x 72" H
FREE-STANDING VESSEL SIGN

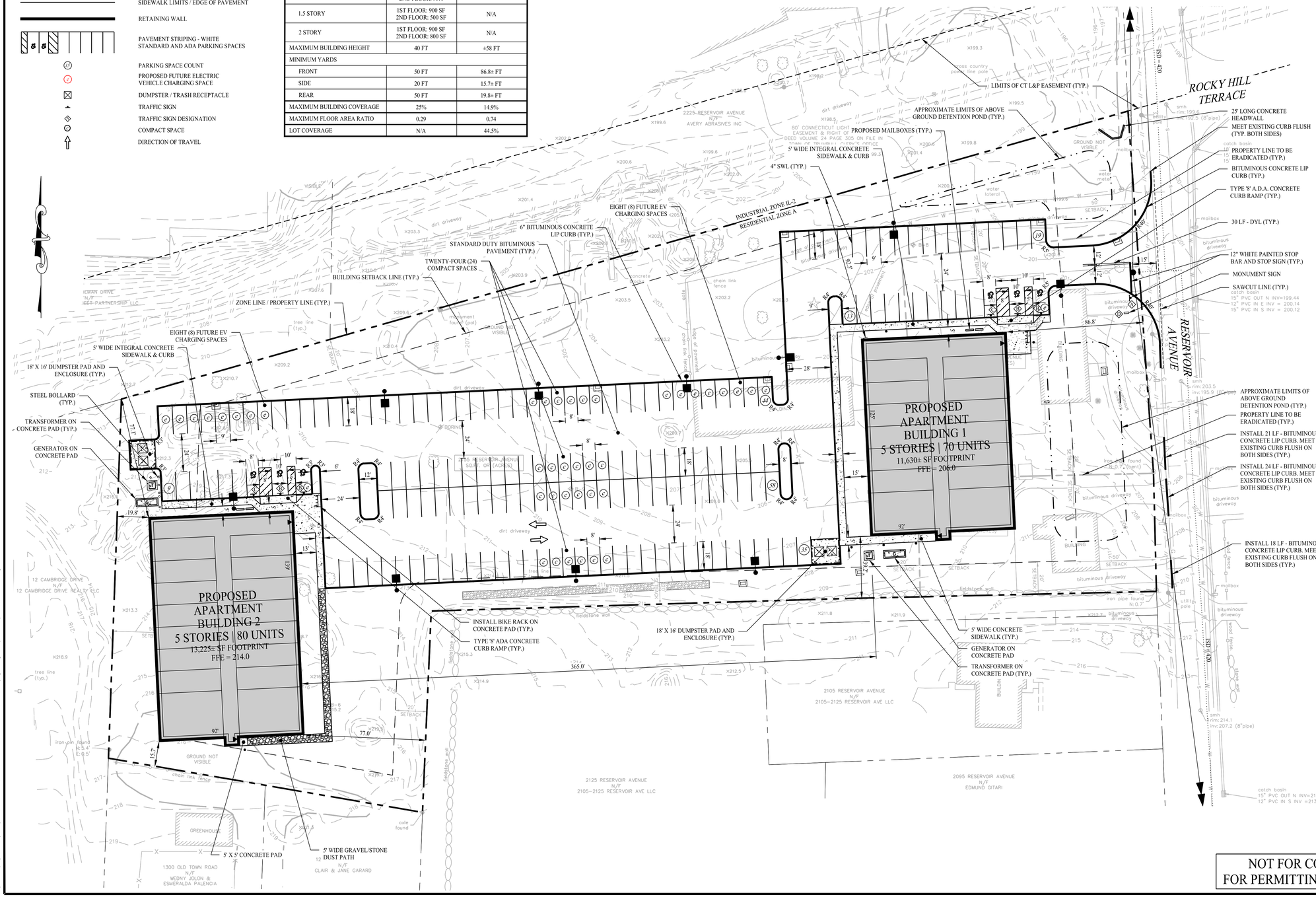
E



SIZES (IN)	CONN DOT #	SUPPORTS
12"x18"	31-0607	1

SITE PLAN NOTES

1. THESE PLANS ARE FOR PERMITTING PURPOSES ONLY AND ARE NOT FOR CONSTRUCTION. NO CONSTRUCTION OR DEMOLITION SHALL BEGIN UNTIL FINAL APPROVAL OF THIS PLAN IS GRANTED BY ALL GOVERNING AND REGULATORY AGENCIES.
2. ALL PROPOSED SITE WORK IS TO BE COMPLETED IN ACCORDANCE WITH ALL PERMITS, APPROVALS, AND CONDITIONS OF APPROVALS ISSUED BY LOCAL, STATE, AND/OR FEDERAL REVIEWING AGENCIES.
3. EXISTING BOUNDARY AND TOPOGRAPHY IS BASED ON DRAWING TITLED "PROPERTY SURVEY OF 2135, 2145 & 2155 RESERVOIR AVENUE, TRUMBULL, CONNECITCUT, PREPARED FOR VESSEL TECHNOLOGIES", SCALE 1"=30', DATED JULY 24, 2025, PERFORMED BY ACCURATE LAND SURVEYING, LLC.
4. ALL CONSTRUCTION SHALL COMPLY WITH, TOWN OF TRUMBULL STANDARDS AND THE CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS IN THE ABOVE REFERENCED INCREASING HIERARCHY. IF SPECIFICATIONS ARE IN CONFLICT, THE MORE STRINGENT SPECIFICATION SHALL APPLY. ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE OSHA, FEDERAL, STATE, AND LOCAL REGULATIONS.
5. THE OWNER IS RESPONSIBLE FOR OBTAINING ALL NECESSARY ZONING PERMITS REQUIRED BY GOVERNMENT AGENCIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL OBTAIN ALL COUNTY AND TOWN CONSTRUCTION PERMITS, INCLUDING CONNECTICUT DOT PERMITS AND SEWER AND WATER CONNECTION PERMITS. THE CONTRACTOR SHALL POST ALL BONDS, PAY ALL FEES, PROVIDE PROOF OF INSURANCE AND PROVIDE TRAFFIC CONTROL NECESSARY FOR THIS WORK.
6. THE CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS IN THE FIELD AND CONTACT THE SITE/CIVIL ENGINEER IF THERE ARE ANY QUESTIONS OR CONFLICTS REGARDING THE CONSTRUCTION DOCUMENTS AND/OR FIELD CONDITIONS.
7. THE CONTRACTOR SHALL FOLLOW THE SEQUENCE OF CONSTRUCTION NOTES PROVIDED ON THE EROSION CONTROL PLAN.
8. THE CONTRACTOR SHALL REFERENCE ARCHITECTURAL PLANS FOR EXACT DIMENSIONS AND CONSTRUCTION DETAILS OF BUILDING, AND THE RAISED CONCRETE SIDEWALKS AND RAMPS.
9. SHOULD ANY UNCHARTED OR INCORRECTLY CHARTED, EXISTING PIPING, OR OTHER UTILITY BE UNCOVERED DURING EXCAVATION, CONSULT THE SITE/CIVIL ENGINEER IMMEDIATELY FOR DIRECTIONS BEFORE PROCEEDING FURTHER WITH WORK IN THIS AREA.
10. DO NOT INTERRUPT EXISTING UTILITIES SERVICING FACILITIES OCCUPIED AND USED BY THE OWNER OR OTHERS DURING OCCUPIED HOURS EXCEPT WHEN SUCH INTERRUPTIONS HAVE BEEN AUTHORIZED IN WRITING BY THE OWNER AND THE LOCAL MUNICIPALITIES. INTERRUPTIONS SHALL ONLY OCCUR AFTER ACCEPTABLE TEMPORARY SERVICE HAS BEEN PROVIDED.
11. ALL SITE DIMENSIONS ARE REFERENCED TO THE FACE OF CURBS OR EDGE OF PAVING AS APPLICABLE UNLESS OTHERWISE NOTED. ALL BUILDING DIMENSIONS ARE REFERENCED TO THE OUTSIDE FACE OF THE STRUCTURE.
13. TRAFFIC CONTROL SIGNAGE SHALL CONFORM TO THE STATE DOT STANDARD DETAIL SHEETS AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. SIGNS SHALL BE INSTALLED PLUMB WITH THE EDGE OF THE SIGN 2' OFF THE FACE OF THE CURB, AND WITH 7' VERTICAL CLEARANCE UNLESS OTHERWISE DETAILED OR NOTED.
14. PAVEMENT MARKING KEY:
    4" SWL - 4" SOLID WHITE LINE
    4" DYL - 4" DOUBLE YELLOW LINE
15. PARKING SPACES SHALL BE STRIPED WITH 4" SWL; HATCHED AREA SHALL BE STRIPED WITH 4" SWL AT A 45° ANGLE, 2' ON CENTER. HATCHING, SYMBOLS, AND STRIPING FOR HANDICAPPED SPACES SHALL BE PAINTED BLUE. OTHER MARKINGS SHALL BE PAINTED WHITE OR AS NOTED.
16. THE CONTRACTOR SHALL RESTORE ANY DRAINAGE STRUCTURE, PIPE, UTILITY, PAVEMENT, CURBS, SIDEWALKS, LANDSCAPED AREAS OR SIGNAGE DISTURBED DURING CONSTRUCTION TO THEIR ORIGINAL CONDITION OR BETTER, AS APPROVED BY THE SITE/CIVIL ENGINEER.
17. THE CONTRACTOR SHALL PROVIDE AS-BUILT RECORDS OF ALL CONSTRUCTION (INCLUDING UNDERGROUND UTILITIES) TO THE OWNER AT THE END OF CONSTRUCTION.
18. THE ARCHITECT AND SITE/CIVIL ENGINEER ARE NOT RESPONSIBLE FOR SITE SAFETY MEASURES TO BE EMPLOYED DURING CONSTRUCTION. THE ARCHITECT AND SITE/CIVIL ENGINEER HAVE NO CONTRACTUAL DUTY TO CONTROL THE SAFEST METHODS OR MEANS OF THE WORK, JOB SITE RESPONSIBILITIES, SUPERVISION OR TO SUPERVISE SAFETY AND DOES NOT VOLUNTARILY ASSUME ANY SUCH DUTY OR RESPONSIBILITY.
19. INFORMATION ON EXISTING UTILITIES AND STORM DRAINAGE SYSTEMS HAS BEEN COMPILED FROM AVAILABLE INFORMATION INCLUDING UTILITY PROVIDER AND MUNICIPAL RECORD MAPS AND/OR FIELD SURVEY AND IS NOT GUARANTEED CORRECT OR COMPLETE. UTILITIES AND STORM DRAINAGE SYSTEMS ARE SHOWN TO ALERT THE CONTRACTOR TO THEIR PRESENCE AND THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ACTUAL LOCATIONS AND ELEVATIONS OF ALL UTILITIES AND STORM DRAINAGE SYSTEMS INCLUDING SERVICES. PRIOR TO DEMOLITION OR CONSTRUCTION, THE CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" 72 HOURS BEFORE COMMENCEMENT OF WORK AT "(800) 922-4455" AND VERIFY ALL UTILITY AND STORM DRAINAGE SYSTEM LOCATIONS.
20. NO PART OF THE PROJECT PARCEL IS LOCATED WITHIN ANY FEMA DESIGNATED FLOOD HAZARD AREAS.
21. FIRE LANES SHALL BE ESTABLISHED AND PROPERLY DESIGNATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FIRE DISTRICT FIRE MARSHAL.
22. ALL PAVEMENT MARKINGS WITHIN RIGHT OF WAY SHOULD BE RESTORED TO THEIR ORIGINAL STATE.
23. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS FOR ACTUAL LOCATIONS OF ALL DOORS, UTILITY ENTRANCES TO INCLUDE SANITARY SEWER LATERALS, DOMESTIC WATER SERVICE, ELECTRICAL, TELEPHONE AND GAS SERVICE, ROOF DRAINS, AND ALL OTHER UTILITIES. CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO AVOID CONFLICTS AND TO ENSURE PROPER DEPTHS ARE ACHIEVED AS WELL AS COORDINATING WITH THE REGULATORY AGENCY AS TO LOCATION OF AND SCHEDULING OF CONNECTIONS TO THEIR FACILITIES. THE ARCHITECTURAL PLANS ARE NOT INCLUDED AS A PART OF THIS PERMITTING PLAN SET AND WILL BE PROVIDED UNDER A SEPARATE COVER.



NOT FOR CONSTRUCTION, FOR PERMITTING PURPOSES ONLY

Rev. #:	Date	Description

Graphic Scale: 30 0 30 60

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Drawn By:	ARM
Checked By:	LAM
Approved By:	KMS
Project #:	24116901
Plan Date:	11/07/25
Scale:	1" = 30'

STATE OF CONNECTICUT KEVIN M. SOLLI 25759 LICENSED PROFESSIONAL ENGINEER

Kevin Solli, P.E.
CT 25759

Project:

PROPOSED REDEVELOPMENT

2135, 2145, & 2155 RESERVOIR AVENUE
TRUMBULL, CONNECTICUT

Sheet Title:	Sheet #:
SITE PLAN	2.11

Nov 07, 2025 - 12:54pm drosemark
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TEST PIT OBSERVATIONS

TESTING PERFORMED BY SOLLI ENGINEERING, LLC ON AUGUST 8, 2025.

TEST PIT 1
0"-12" TOPSOIL
12"-28" LIGHT BROWN FINE SANDY LOAM
28"-44" DARK BROWN FINE SANDY LOAM
44"-76" GRAY FINE SANDY LOAM, MOTTLES

GROUNDWATER @ 74".
NO LEDGE.
ROOTS TO 44".

TEST PIT 2
0"-11" TOPSOIL
11"-30" LIGHT BROWN FINE SANDY LOAM
30"-48" DARK BROWN FINE SANDY LOAM
48"-72" GRAY FINE SANDY LOAM, MOTTLES

GROUNDWATER @ 70".
NO LEDGE.
ROOTS TO 30".

TEST PIT 3
0"-13" TOPSOIL
13"-27" DARK BROWN SANDY LOAM
27"-72" BROWN FINE SANDY LOAM, SOME COBBLES

NO GROUNDWATER.
NO LEDGE.
ROOTS TO 30".

TEST PIT 4
0"-10" TOPSOIL
10"-24" DARK BROWN SANDY LOAM
24"-52" BROWN FINE SANDY LOAM, SOME COBBLES

NO GROUNDWATER.
LEDGE @ 52".
ROOTS TO 18".

TEST PIT 5
0"-9" TOPSOIL
9"-70" BROWN FINE SANDY LOAM, SOME COBBLES

NO GROUNDWATER.
NO LEDGE.
ROOTS TO 44".

TEST PIT 6
0"-9" TOPSOIL
9"-72" BROWN FINE SANDY LOAM, SOME COBBLES

NO GROUNDWATER.
NO LEDGE.
ROOTS TO 14".

INFILTRATION TEST DATA

INFILTRATION TESTS WERE PERFORMED ON AUGUST 8, 2025 BY SOLLI ENGINEERING, LLC.

INFILTRATION TEST: I-1
DIAMETER OF PIT: 4"
DEPTH OF PIT: 48"
HOLE PRESOAKED PRIOR TO TEST

ELAPSED TIME (MIN.)	READING (IN.)
0	19.75
5	25.5
10	26.75
15	28.25
20	28.75
25	29
30	29.5
35	29.75
40	30
45	30.25
50	30.5

INFILTRATION RATE:
10.1-20.0 MIN. PER INCH

INFILTRATION TEST: I-2
DIAMETER OF PIT: 4"
DEPTH OF PIT: 48"
HOLE PRESOAKED PRIOR TO TEST

ELAPSED TIME (MIN.)	READING (IN.)
0	13.5
5	18.25
10	21.75
15	24.25
20	26
25	27.75
30	29
35	30

INFILTRATION RATE:
0-10.0 MIN. PER INCH

INFILTRATION TEST: I-3
DIAMETER OF PIT: 4"
DEPTH OF PIT: 48"
HOLE PRESOAKED PRIOR TO TEST

ELAPSED TIME (MIN.)	READING (IN.)
0	13
5	22
10	26.5
15	28.25
20	29.75
25	30.5

INFILTRATION RATE:
0-10.0 MIN. PER INCH

INFILTRATION TEST: I-4
DIAMETER OF PIT: 4"
DEPTH OF PIT: 48"
HOLE PRESOAKED PRIOR TO TEST

ELAPSED TIME (MIN.)	READING (IN.)
0	10.25
5	20.75
10	24
15	26.5
20	28
25	28.75
30	30

INFILTRATION RATE:
0-10.0 MIN. PER INCH

INFILTRATION TEST: I-5
DIAMETER OF PIT: 4"
DEPTH OF PIT: 48"
HOLE PRESOAKED PRIOR TO TEST

ELAPSED TIME (MIN.)	READING (IN.)
0	2.25
5	4.5
10	6
15	7.75
20	9.25
25	10.75
30	12
35	13.25
40	14.5
45	15.75
50	16.75
55	17.75
60	18.75

INFILTRATION RATE:
0-10.0 MIN. PER INCH

INFILTRATION TEST: I-6
DIAMETER OF PIT: 4"
DEPTH OF PIT: 48"
HOLE PRESOAKED PRIOR TO TEST

ELAPSED TIME (MIN.)	READING (IN.)
0	4
5	13.75
10	19
15	21.75
20	24
25	25.5
30	26.25
35	27
40	27.75
45	28.25
50	28.75
55	29.25
60	29.75

INFILTRATION RATE:
0-10.0 MIN. PER INCH

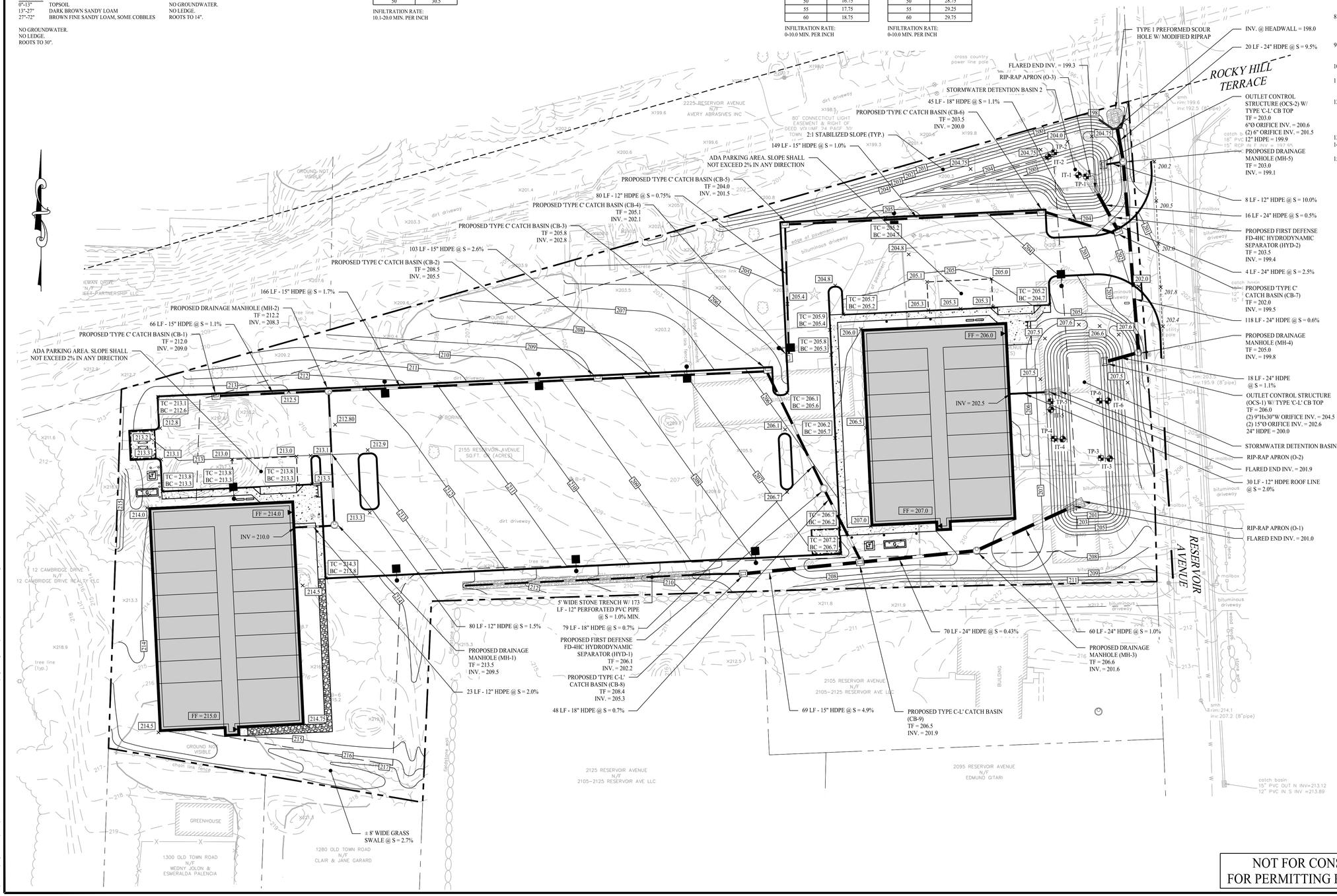
EARTHWORK CUT/FILL

CUT (CY)	FILL (CY)	NET (CY)
7,695	4,053	3,642

NOTE: THE ABOVE REFERENCED NUMBERS ARE CONSIDERED APPROXIMATE AND INCLUDE MATERIAL REQUIRED FOR BUILDING FOUNDATIONS, ROADWAY / PARKING LOT CONSTRUCTION, UTILITY INSTALLATIONS AND STORMWATER BASINS.

GRADING AND DRAINAGE NOTES

1. THESE PLANS ARE FOR PERMITTING PURPOSES ONLY AND ARE NOT FOR CONSTRUCTION. NO CONSTRUCTION OR DEMOLITION SHALL BEGIN UNTIL FINAL APPROVAL OF THIS PLAN IS GRANTED BY ALL GOVERNING AND REGULATORY AGENCIES.
2. ALL PROPOSED SITE WORK TO BE COMPLETED IN ACCORDANCE WITH ALL PERMITS, APPROVALS AND CONDITIONS OF APPROVALS ISSUED BY LOCAL, STATE AND/OR FEDERAL REVIEWING AGENCIES.
3. EXISTING BOUNDARY AND TOPOGRAPHY IS BASED ON DRAWING TITLED "PROPERTY SURVEY OF 2135, 2145 & 2155 RESERVOIR AVENUE, TRUMBULL, CONNECTICUT, PREPARED FOR VESSEL TECHNOLOGIES", SCALE 1"=30', DATED JULY 24, 2025, PERFORMED BY ACCURATE LAND SURVEYING, LLC.
4. THIS DRAWING IS INTENDED TO DESCRIBE GRADING AND DRAINAGE ONLY. REFER TO SITE PLAN FOR GENERAL INFORMATION, AND DETAIL SHEETS FOR DETAILS.
5. THE CONTRACTOR SHALL PRESERVE EXISTING VEGETATION WHERE POSSIBLE AND/OR AS NOTED ON DRAWINGS. REFER TO EROSION CONTROL PLAN FOR LIMIT OF DISTURBANCE AND EROSION CONTROL NOTES.
6. TOPSOIL SHALL BE STRIPPED AND STOCKPILED ON SITE FOR USE IN FINAL LANDSCAPING.
7. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY CONSTRUCTION PERMITS REQUIRED BY GOVERNMENT AND LOCAL AGENCIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY CONSTRUCTION PERMITS FROM THE TOWN OF TRUMBULL REQUIRED TO PERFORM ALL WORK, INCLUDING FOR STREET CUTS AND CONNECTIONS TO EXISTING UTILITIES. THE CONTRACTOR SHALL POST ALL BONDS, PAY ALL FEES, PROVIDE PROOF OF INSURANCE AND PROVIDE TRAFFIC CONTROL NECESSARY FOR THIS WORK.
8. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TRAFFIC DEVICES FOR PROTECTION OF VEHICLES AND PEDESTRIANS CONSISTING OF DRUMS, BARRIERS, SIGNS, LIGHTS, FENCES AND UNIFORMED TRAFFIC CONTROLLERS AS REQUIRED, ORDERED BY THE ENGINEER OR REQUIRED BY THE STATE AND LOCAL GOVERNING AUTHORITIES.
9. THE CONTRACTOR SHALL COMPACT FILL IN 12" MAXIMUM LIFTS UNDER ALL PARKING, BUILDING, AND DRIVE AREAS TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D1557 (MODIFIED PROCTOR TEST), OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER.
10. UNDERDRAINS SHALL BE ADDED, IF DETERMINED NECESSARY IN THE FIELD BY THE OWNER/GEOTECHNICAL ENGINEER, AFTER SUBGRADE IS ROUGH GRADED.
11. ALL DISTURBANCE INCURRED TO TOWN OR STATE PROPERTY DUE TO CONSTRUCTION SHALL BE RESTORED TO ITS PREVIOUS CONDITION OR BETTER, TO THE SATISFACTION OF THE TOWN OF TRUMBULL AUTHORITY.
12. IF IMPACTED OR CONTAMINATED SOIL IS ENCOUNTERED BY THE CONTRACTOR, THE CONTRACTOR SHALL SUSPEND EXCAVATION WORK OF IMPACTED SOIL AND NOTIFY THE OWNER AND/OR OWNER'S ENVIRONMENTAL CONSULTANT PRIOR TO PROCEEDING WITH FURTHER WORK IN THE IMPACTED SOIL. LOCATION UNTIL FURTHER INSTRUCTED BY THE OWNER AND/OR OWNER'S ENVIRONMENTAL CONSULTANT.
13. ALL PIPE LENGTHS ARE HORIZONTAL DISTANCES AND ARE APPROXIMATE.
14. GRADING CONTRACTOR SHALL RESTORE TO GRADE AND COMPACT ALL AREAS DISTURBED BY BUILDING CONSTRUCTION PRIOR TO BASE AND PAVING OPERATIONS COMMENCING.
15. ALL PROPOSED CATCH BASINS SHALL BE EQUIPPED WITH HOODED OUTLETS AND CONSTRUCTED WITH MINIMUM 48" SUMPS.



LEGEND

- PROPERTY LINE
- ADJOINING LOT LINE
- 420 MAJOR CONTOURS
- 421 MINOR CONTOURS
- EXISTING MAJOR CONTOURS
- EXISTING MINOR CONTOURS
- 420 CONTOUR LABEL
- 568.85 PROPOSED SPOT ELEVATION
- 568.85 EXISTING SPOT ELEVATION
- STORM DRAIN PIPE
- TYPE "C" CATCH BASIN
- STORM MANHOLE
- WATER QUALITY UNIT
- OUTLET CONTROL STRUCTURE
- TP-XXX TEST PIT
- IT-X PERC TEST LOCATION

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Rev. #:	Date	Description

Graphic Scale: 30 0 30 60

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Drawn By:	ARM
Checked By:	LAM
Approved By:	KMS
Project #:	24116901
Plan Date:	11/07/25
Scale:	1" = 30'

STATE OF CONNECTICUT KEVIN M. SOLLI 25759 LICENSED PROFESSIONAL ENGINEER
Kevin Solli, P.E.
CT 25759

Project:

PROPOSED REDEVELOPMENT

2135, 2145, & 2155 RESERVOIR AVENUE
TRUMBULL, CONNECTICUT

Sheet Title:	Sheet #:
GRADING & DRAINAGE PLAN	2.21

Nov 07, 2025 - 10:45am bdjuk
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EROSION CONTROL TABLE

EROSION CONTROL MEASURE	CONTROL OBJECTIVE	INSPECTION/ MAINTENANCE	FAILURE INDICATOR	REMOVAL
TEMPORARY SEDIMENT TRAP (TST)	- DETAIN SEDIMENT LADEN RUNOFF FROM SMALL DISTURBED AREAS LONG ENOUGH TO ALLOW A MAJORITY OF THE SEDIMENT TO SETTLE OUT	INSPECT AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH ANY MEASURABLE RAINFALL. STONE OUTLET SHOULD BE AT LEAST 1 FOOT BELOW CREST OF EMBANKMENT. SEDIMENT MUST BE REMOVED WHEN ACCUMULATION REACHES ½ OF THE REQUIRED WET STORAGE.	-TURBID WATER -EXCESSIVE SEDIMENT ACCUMULATION -OVERTOPPING EVIDENCE	TST MAY BE REMOVED ONCE THE CONTRIBUTING DRAINAGE AREA IS PERMANENTLY STABLIZED.
SILT FENCE	- INTERCEPT AND REDIRECT/DETAIN SMALL AMOUNTS OF SEDIMENT FROM SMALL DISTURBED AREAS. - DECREASE VELOCITY OF SHEET FLOW - PROTECT SENSITIVE SLOPES OR SOIL FROM EXCESSIVE WATER FLOW.	INSPECT AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH ANY MEASURABLE RAINFALL. ACCUMULATED SEDIMENT MUST BE REMOVED ONCE ITS DEPTH IS EQUAL TO ½ OF THE BARRIER. INSPECT FREQUENTLY DURING PUMPING OPERATIONS IF USED FOR DEWATERING OPERATIONS.	-PHYSICAL DAMAGE OR DECOMPOSITION - EVIDENCE OF OVERTOPPED OF UNDERCUT FENCE. -EVIDENCE OF SIGNIFICANT FLOWS EVADING CAPTURE. -REPETITIVE FAILURE	SILT FENCE MAY BE REMOVED AFTER UPHILL AND SENSITIVE AREAS HAVE BEEN PERMANENTLY STABILIZED.
TEMPORARY DIVERSION SWALE OR TEMPORARY SWALE OR WATER BAR	- MINIMIZE VELOCITY AND CONCENTRATION OF SHEET FLOW ACROSS CONSTRUCTION SITE TO A SEDIMENT TRAPPING FACILITY. - DIVERT WATER ORIGINATING FROM UNDISTURBED AREA AWAY FROM CONSTRUCTION.	WHEN LOCATED WITHIN CLOSE PROXIMITY TO ON GOING CONSTRUCTION ACTIVITES, INSPECT AT THE END OF EACH WORK DAY AND IMMEDIATELY REPAIR DAMAGES. OTHERWISE INSPECT AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WWITH ANY MEASURABLE RAINFALL. REPAIR THE TEMPORARY MEASURE AND ANY OTHER ASSOCIATED MEASURES WITHIN 24 HOURS.	-PHYSICAL DAMAGE -EXCESSIVE SCOURING/EROSION -REPETITIVE FAILURE	TEMPORARY DIVERSIONS MAY BE REMOVED ONCE CONSTRUCTION HAS CEASED AND THE CONTRIBUTING DRAINAGE AREA HAS BEEN PERMANENTLY STABILIZED.
CONSTRUCTION ENTRANCE	-REDUCE THE TRACKING OF SEDIMENT OFF-SITE ON TO PAVED SURFACES.	INSPECT AT THE END OF EACH WORK DAY AND IMMEDIATELY REPAIR DAMAGES. PERIODIC ADDITION OF STONE OR LENGTHENING OF ENTRANCE MAY BE REQUIRED AS CONDITIONS DEMAND. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ON TO PAVED SURFACES AS A RESULT OF INEFFICIENCY OF CONSTRUCTION ENTRANCE SHALL BE IMMEDIATELY REMOVED.	-SEDIMENT IN ROADWAY ADJACENT TO SITE	CONSTRUCTION ENTRANCE MAY BE REMOVED ONCE THE SITE HAS BEEN PERMANENTLY STABILIZED, AND ALL SECTIONS OF ROADWAY HAVE BEEN PERMANENTLY PAVED.
CATCH BASIN INLET PROTECTION	-PROHIBIT SILT IN CONSTRUCTION RELATED RUNOFF FROM ENTERING STORM DRAINAGE SYSTEM.	INSPECT AFTER ANY RAIN EVENT. IF FILTER BAG INSIDE CATCH BASIN CONTAINS MORE THAN 6" OF SEDIMENT, REMOVE SEDIMENT FROM BAG. CHECK SURROUNDING SILT FENCE AND STRAW BALES PER NOTED ABOVE.	-RIPPED BAG -FAILED STRAW BALES/SILT FENCE -SIGNIFICANT SILT PRESENCE IN STORM DRAINAGE SYSTEM OUTFLOW.	INLET PROTECTION MAY BE REMOVED ONCE THE SITE HAS BEEN PERMANENTLY STABILIZED, AND ALL OTHER SECTIONS OF ROADWAY HAVE BEEN PERMANENTLY PAVED.
STOCKPILE PROTECTION	-RETAIN SOIL STOCKPILE IN LOCATIONS SPECIFIED AND REDUCE WATER TRANSPORT.	INSPECT SILT FENCE AT THE END OF EACH WORK DAY AND IMMEDIATELY REPAIR DAMAGES. PERIODIC REINFORCEMENT OF SILT FENCE, OR ADDITION OF STRAW BALES MAY BE NECESSARY.	-EVIDENCE OF STOCK PILE DIMINISHING DUE TO RAIN EVENTS -FAILURE OF SILT FENCE	STOCKPILE PROTECTION MAY BE REMOVED ONCE THE STOCKPILE IS USED OR REMOVED.
DUST PROTECTION	-TO PREVENT MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES , WHICH MAY CAUSE BOTH OFF-SITE AND ON-SITE DAMAGE, BE A HEALTH HAZARD TO HUMANS, WILDLIFE, AND PLANT LIFE, OR CREATE A HAZARD BY REDUCING TRAFFIC VISIBILITY.	USE MECHANICAL SWEEPING DAILY ON PAVED AREAS WHERE DUST AND FINE MATERIALS ACCUMULATE. IF HEAVILY TRAFFICKED AND SEDIMENT ACCUMULATES QUICKLY. PERIODICALLY MOISTEN UNPAVED TRAVEL WAYS TO CONTROL DUST WHEN EVIDENCE OF AIRBORNE DUST.	-AIRBORNE DUST	REPEAT APPLICATION OF DUST CONTROL MEASURES UNTIL ALL AREAS ARE PERMANENTLY STABILIZED, VEGETATED, AND PAVED, OR AS LONG AS THERE IS AIRBORNE DUST.

LEGEND

- PROPERTY LINE
- RIGHT-OF-WAY LINE
- ADJOINING LOT LINE
- SILT FENCE PROTECTION
- STRAW WATTLES PROTECTION
- LIMIT OF DISTURBANCE
- CONSTRUCTION ENTRANCE
- DIVERSION SWALE/BERM
- BUILDING / STRUCTURE DEMOLITION
- BITUMINOUS CONCRETE PAVEMENT DEMOLITION
- TEMPORARY SEDIMENT TRAP
- SILT SACK INLET PROTECTION
- STONE CHECK DAM
- SOIL TYPE BOUNDARY
- SOIL TYPE

SEDIMENT TRAP CALCULATIONS

NOTE:
TEMPORARY SEDIMENT TRAPS HAVE BEEN SIZED TO PROVIDE A MINIMUM STORAGE VOLUME OF 134 CUBIC YARDS PER ACRE OF DRAINAGE AREA PER THE 2024 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.

SEDIMENT TRAP #1:
CONTRIBUTING DRAINAGE AREA = 1.94± ACRES
1.94 AC x 134 CY/AC = 260 CY
260 CY x 27 CF/CY = 7,020 CF
SEDIMENT TRAP STORAGE CAPACITY = 7,020 CF

SEDIMENT TRAP #2:
CONTRIBUTING DRAINAGE AREA = 1.70± ACRES
1.70 AC x 134 CY/AC = 228 CY
228 CY x 27 CF/CY = 6,156 CF
SEDIMENT TRAP STORAGE CAPACITY = 6,156 CF

SEDIMENT AND EROSION CONTROL NOTES

1. THESE PLANS ARE FOR PERMITTING PURPOSES ONLY AND ARE NOT FOR CONSTRUCTION. NO CONSTRUCTION OR DEMOLITION SHALL BEGIN UNTIL FINAL APPROVAL OF THIS PLAN IS GRANTED BY ALL GOVERNING AND REGULATORY AGENCIES.
2. ALL PROPOSED SITE WORK IS TO BE COMPLETED IN ACCORDANCE WITH ALL PERMITS, APPROVALS, AND CONDITIONS OF APPROVALS ISSUED BY LOCAL, STATE, AND/OR FEDERAL REVIEWING AGENCIES.
3. EXISTING BOUNDARY AND TOPOGRAPHY IS BASED ON DRAWING TITLED "PROPERTY SURVEY OF 2135, 2145 & 2155 RESERVOIR AVENUE, TRUMBULL, CONNECITCUT, PREPARED FOR VESSEL TECHNOLOGIES", SCALE 1"=30', DATED JULY 24, 2025, PERFORMED BY ACCURATE LAND SURVEYING, LLC.
4. ALL CONSTRUCTION SHALL COMPLY WITH, TOWN OF TRUMBULL STANDARDS AND SPECIFICATIONS IN THE ABOVE REFERENCED INCREASING HIERARCHY. IF SPECIFICATIONS ARE IN CONFLICT, THE MORE STRINGENT SPECIFICATION SHALL APPLY. ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE OSHA, FEDERAL, STATE, AND LOCAL REGULATIONS.
5. THE OWNER IS RESPONSIBLE FOR OBTAINING ALL NECESSARY ZONING PERMITS REQUIRED BY GOVERNMENT AGENCIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL OBTAIN ALL TOWN CONSTRUCTION PERMITS, INCLUDING SEWER AND WATER CONNECTION PERMITS. THE CONTRACTOR SHALL POST ALL BONDS, PAY ALL FEES, PROVIDE PROOF OF INSURANCE AND PROVIDE TRAFFIC CONTROL NECESSARY FOR THIS WORK.
6. THE CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS IN THE FIELD AND CONTACT THE SITE/CIVIL ENGINEER IF THERE ARE ANY QUESTIONS OR CONFLICTS REGARDING THE CONSTRUCTION DOCUMENTS AND/OR FIELD CONDITIONS.
7. THE CONTRACTOR SHALL FOLLOW THE SEQUENCE OF CONSTRUCTION NOTES PROVIDED HEREON.
8. SHOULD ANY UNCHARTED OR INCORRECTLY CHARTED, EXISTING PIPING OR OTHER UTILITY BE UNCOVERED DURING EXCAVATION, CONSULT THE SITE/CIVIL ENGINEER IMMEDIATELY FOR DIRECTIONS BEFORE PROCEEDING FURTHER WITH WORK IN THIS AREA.
9. DO NOT INTERRUPT EXISTING UTILITIES SERVICING FACILITIES OCCUPIED AND USED BY THE OWNER OR OTHERS DURING OCCUPIED HOURS EXCEPT WHEN SUCH INTERRUPTIONS HAVE BEEN AUTHORIZED IN WRITING BY THE OWNER AND THE LOCAL MUNICIPALITIES. INTERRUPTIONS SHALL ONLY OCCUR AFTER ACCEPTABLE TEMPORARY SERVICE HAS BEEN PROVIDED.
10. THE CONTRACTOR SHALL RESTORE ANY DRAINAGE STRUCTURE, PIPE, UTILITY, PAVEMENT, CURBS, SIDEWALKS, LANDSCAPED AREAS OR SIGNAGE DISTURBED DURING CONSTRUCTION TO THEIR ORIGINAL CONDITION OR BETTER, AS APPROVED BY THE SITE/CIVIL ENGINEER.
11. INFORMATION ON EXISTING UTILITIES AND STORM DRAINAGE SYSTEMS HAS BEEN COMPILED FROM AVAILABLE INFORMATION INCLUDING UTILITY PROVIDER AND MUNICIPAL RECORD MAPS AND/OR FIELD SURVEY AND IS NOT GUARANTEED CORRECT OR COMPLETE. UTILITIES AND STORM DRAINAGE SYSTEMS ARE SHOWN TO ALERT THE CONTRACTOR TO THEIR PRESENCE AND THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ACTUAL LOCATIONS AND ELEVATIONS OF ALL UTILITIES AND STORM DRAINAGE SYSTEMS INCLUDING SERVICES. PRIOR TO DEMOLITION OR CONSTRUCTION, THE CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" 72 HOURS BEFORE COMMENCEMENT OF WORK AT "(800) 922-4455" AND VERIFY ALL UTILITY AND STORM DRAINAGE SYSTEM LOCATIONS.
12. REFER TO SHEET 2.32 FOR PHASE II CONSTRUCTION PLAN AND FOR THE INSTALLATION, MAINTENANCE, AND OPERATION OF THE PROPOSED SOIL EROSION & SEDIMENT CONTROL MEASURES SHOWN HEREON.
13. REFER TO SHEET 2.41 FOR SOIL EROSION AND SEDIMENT CONTROL NOTES AND DETAILS.

PHASE I CONSTRUCTION SEQUENCE

1. INSTALL CONSTRUCTION FENCE, SILT SACK INLET PROTECTION FOR CATCH BASINS LOCATED WITHIN THE STREET, AND STABILIZED CONSTRUCTION ENTRANCE/EXIT.
2. INSTALL SILT FENCE / SEC MEASURES AS PROPOSED (CLEAR ONLY THOSE AREAS NECESSARY TO INSTALL SEC MEASURES). REMOVE THE NECESSARY PAVEMENT TO INSTALL SILT FENCE ALONG THE NORTHERN AND EASTERN LIMIT OF SITE WORK.
3. INSTALL SEDIMENT TRAPS.
4. PREPARE TEMPORARY PARKING AND STORAGE AREAS.
5. ESTABLISH MATERIAL STOCKPILE AREA AND INSTALL SEC BARRIER SURROUNDING PILE.
6. HALT ALL ACTIVITIES AND CONTACT THE SITE/CIVIL ENGINEER / TOWN OF TRUMBULL LAND USE AGENT TO PERFORM INSPECTION AND CERTIFICATION OF BEST MANAGEMENT PRACTICES (BMPS). GENERAL CONTRACTOR SHALL SCHEDULE AND CONDUCT THE STORMWATER PRE-CONSTRUCTION MEETING WITH THE SITE/CIVIL ENGINEER, OR REPRESENTATIVE OF, TOWN AGENCIES, AND GROUND-DISTURBING CONTRACTOR BEFORE PROCEEDING WITH CONSTRUCTION.
7. PERFORM PAVEMENT SAWCUTS.
8. DEMOLISH AND REMOVE EXISTING STRUCTURES / FOUNDATIONS.
9. REMOVE ALL EXISTING CURBING, BITUMINOUS CONCRETE PAVEMENT, CONCRETE PADS, AND FENCING.
10. BEGIN CLEARING AND GRUBBING THE SITE.
11. BEGIN CONSTRUCTION OF RETAINING WALLS.
12. BEGIN ROUGH GRADING OF THE SITE.
13. TEMPORARILY SEED THROUGH CONSTRUCTION DISTURBED AREAS THAT WILL BE INACTIVE FOR 14 DAYS OR MORE.
14. CONTRACTOR/CONSTRUCTION MANAGER TO COORDINATE WITH SITE/CIVIL ENGINEER OF RECORD TO OBTAIN STABILIZED SITE STATUS

PROPOSED SEDIMENT TRAP #2. SEDIMENT TRAP TO BE IN PLACE UNTIL FINAL STORMWATER MANAGEMENT IS INSTALLED AND ON-LINE DISTURBED AREA = 1.70 ACRES
TOP OF TRAP ELEV. = 200.50
BOTTOM OF TRAP ELEV. = 197.00
REQUIRED TOTAL CAPACITY = 6,156 CF
PROVIDED WET CAPACITY (EL 197-199) = 3,211 CF
PROVIDED DRY CAPACITY (EL 199-200.5) = 2,945 CF

PROPOSED SEDIMENT TRAP #1. SEDIMENT TRAP TO BE IN PLACE UNTIL FINAL STORMWATER MANAGEMENT IS INSTALLED AND ON-LINE DISTURBED AREA = 1.94 ACRES
TOP OF TRAP ELEV. = 203.50
BOTTOM OF TRAP ELEV. = 200.00
REQUIRED TOTAL CAPACITY = 7,020 CF
PROVIDED WET CAPACITY (EL 200-202) = 3,610 CF
PROVIDED DRY CAPACITY (EL 202-203.5) = 3,502 CF

SILT SACK INLET PROTECTION (TYP.)
CHAIN-LINK CONSTRUCTION FENCE (TYP.)
SILT FENCE PERIMETER WITH STRAW WATTLE BACKING (TYP.)
LIMIT OF DISTURBANCE (TYP.) (3.71 AC.)
ROCKY HILL TERRACE
TEMPORARY STONE STABILIZED CONSTRUCTION ENTRANCE PAD (MIN. LENGTH 50')
REMOVE & DISPOSE OF EXISTING BUILDINGS, PAVEMENT, AND CONCRETE (TYP.)
RESERVOIR AVENUE
INSTALL TEMPORARY MATERIAL STOCKPILE AREA WITH SILT FENCE PERIMETER. LOCATION SUBJECT TO CHANGE THROUGHOUT CONSTRUCTION
REMOVE AND DISPOSE OF EXISTING FENCE AND SHEDS (TYP.)

12 CAMBRIDGE DRIVE N/F 12 CAMBRIDGE DRIVE REALTY LLC
1300 OLD TOWN ROAD N/F WENDY V. JOLON & ESMERALDA PALENCIA
1280 OLD TOWN ROAD N/F CLAIR & JANE GARARD
2125 RESERVOIR AVENUE N/F 2105-2125 RESERVOIR AVE LLC
2105 RESERVOIR AVENUE N/F 2105-2125 RESERVOIR AVE LLC
2095 RESERVOIR AVENUE N/F EDMUND GITARI
2155 RESERVOIR AVENUE SQ.FT. OR (ACRES)
2145 RESERVOIR AVENUE SQ.FT. OR (ACRES)
2135 RESERVOIR AVENUE SQ.FT. OR (ACRES)

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Rev. #:	Date	Description

Graphic Scale: 30 0 30 60

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Checked By:	LAM
Approved By:	KMS
Project #:	24116901
Plan Date:	11/07/25
Scale:	1" = 30'

STATE OF CONNECTICUT · KEVIN M. SOLLI · 25759 · LICENSED PROFESSIONAL ENGINEER
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Project:

PROPOSED REDEVELOPMENT

2135, 2145, & 2155 RESERVOIR AVENUE
TRUMBULL, CONNECTICUT

Sheet Title: SOIL EROSION & SEDIMENT CONTROL PLAN - PHASE 1

Sheet #: 2.31

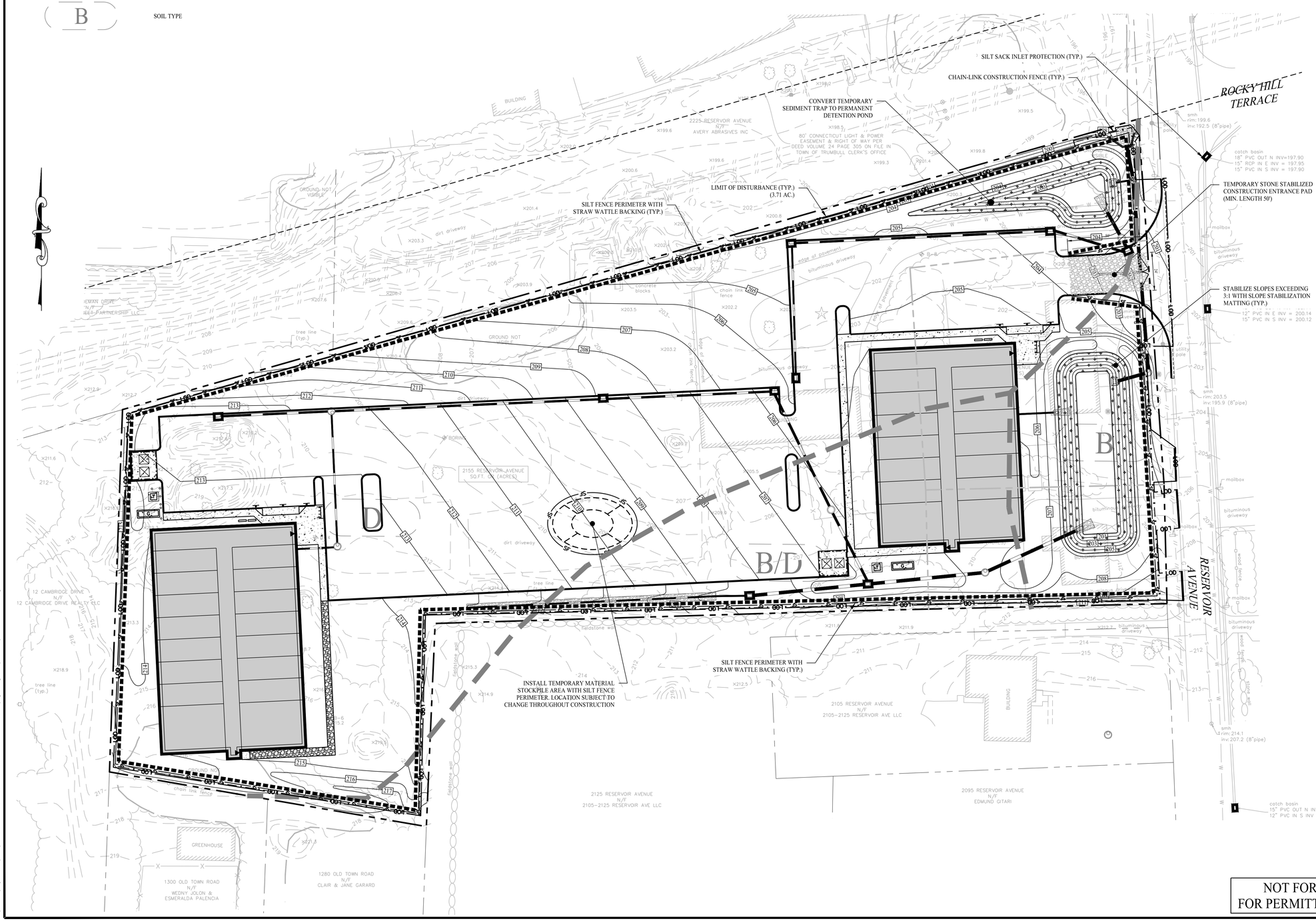
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LEGEND

- PROPERTY LINE
- ADJOINING LOT LINE
- SF — SF — SILT FENCE PROTECTION
- LOD — LIMIT OF DISTURBANCE
- CONSTRUCTION ENTRANCE
- SLOPE STABILIZATION MATTING
- SILT SACK INLET PROTECTION
- SOIL TYPE BOUNDARY
- B — SOIL TYPE

PHASE II CONSTRUCTION SEQUENCE

1. DECOMMISSION SEDIMENT TRAP #1.
2. INSTALL ADDITIONAL SILT FENCE SHOWN HERE ON. PROTECT & MAINTAIN SILT FENCE INSTALLED IN PHASE WHERE APPLICABLE.
3. INSTALL SANITARY SEWER PIPING AND STRUCTURES (SEE SHEET 2.51)
4. INSTALL PROPOSED STORM DRAINAGE SYSTEM AND STRUCTURES (SEE SHEET 2.21). UPON INSTALLATION OF DRAINAGE STRUCTURES, INLET PROTECTION TO BE INSTALLED.
5. START CONSTRUCTION OF BUILDING PAD, PARKING AREAS, UTILITY TRENCHING AND STRUCTURES.
6. PERMANENTLY STABILIZE AREAS TO BE VEGETATED AS THEY ARE BROUGHT TO FINAL GRADE.
7. PREPARE SITE FOR PAVING.
8. INSTALL CURBS.
9. CONSTRUCT CONCRETE PADS AND SIDEWALKS.
10. PAVE AREAS SHOWN ON SITE PLAN.
11. COMPLETE GRADING AND INSTALLATION OF PERMANENT STABILIZATION OVER ALL AREAS.
12. OBTAIN CONCURRENCE WITH THE CONSTRUCTION MANAGER THAT THE SITE HAS BEEN FULLY STABILIZED THEN:
    - 12.1. REMOVE ALL REMAINING TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES,
    - 12.2. STABILIZE ANY AREAS DISTURBED BY THE REMOVAL OF BMP'S, AND
    - 12.3. ASK THE CM TO CONTACT THE ENGINEER TO COMPLETE THE ENGINEERS ON-SITE INSPECTIONS AND REPORT.
13. CONTINUE DAILY INSPECTION REPORTS UNTIL THE FINAL DAILY INSPECTION REPORT IS SIGNED BY THE CONSTRUCTION MANAGER AND SUBMITTED.



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Rev. #:	Date	Description

Graphic Scale: 30 0 30 60

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Checked By:	LAM
Approved By:	KMS
Project #:	24116901
Plan Date:	11/07/25
Scale:	1" = 30'

STATE OF CONNECTICUT KEVIN M. SOLLI 25759 LICENSED PROFESSIONAL ENGINEER
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Project:

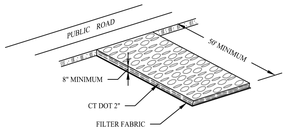
PROPOSED REDEVELOPMENT

2135, 2145, & 2155 RESERVOIR AVENUE
TRUMBULL, CONNECTICUT

Sheet Title: SOIL EROSION & SEDIMENT CONTROL PLAN - PHASE II

Sheet #: 2.32

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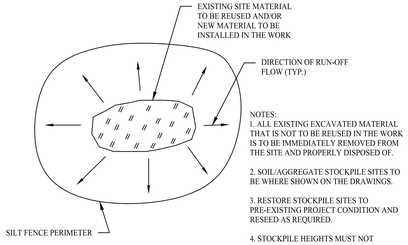
GRADATION TABLE

	CONN. DOT 2" CRUSHED GRAVEL	ASTM C-33 NO. 2	ASTM C-33 NO. 3
SQUARE MESH SIEVES	% FINER	% FINER	% FINER
2 1/2 INCHES	100	90-100	100
2 INCHES	95-100	35-70	90-100
1 1/2 INCHES	35-70	0-15	35-70
1 1/4 IN. INCHES	0-25	---	---
1 INCHES	0-10	---	0-15
3/4 INCHES	---	0-5	---
1/2 INCHES	---	---	0-5
3/8 INCHES	---	---	---

SOURCE:
U.S. DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE, STORRS, CONNECTICUT

CONSTRUCTION ENTRANCE

SCALE: NTS



NOTES:
1. ALL EXISTING EXCAVATED MATERIAL THAT IS NOT TO BE REUSED IN THE WORK IS TO BE IMMEDIATELY REMOVED FROM THE SITE AND PROPERLY DISPOSED OF.

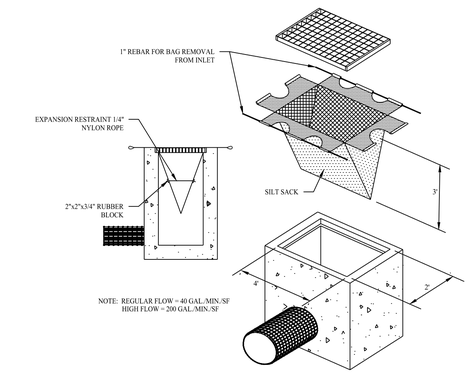
2. SOIL/AGGREGATE STOCKPILE SITES TO BE WHERE SHOWN ON THE DRAWINGS.

3. RESTORE STOCKPILE SITES TO PRE-EXISTING PROJECT CONDITION AND RESEED AS REQUIRED.

4. STOCKPILE HEIGHTS MUST NOT EXCEED 35'. STOCKPILE SLOPES MUST BE 2:1 OR FLATTER.

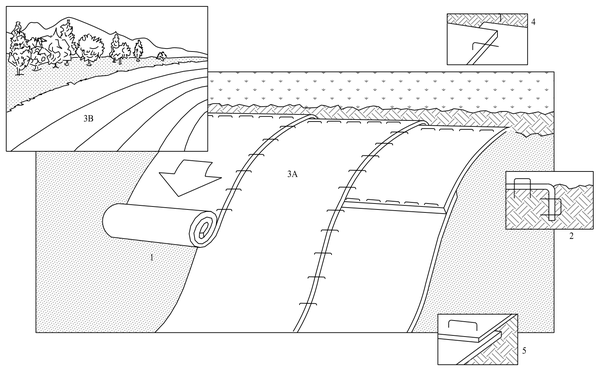
STOCKPILE AREA DETAIL

SCALE: NTS



SILT SACK INLET PROTECTION DETAIL

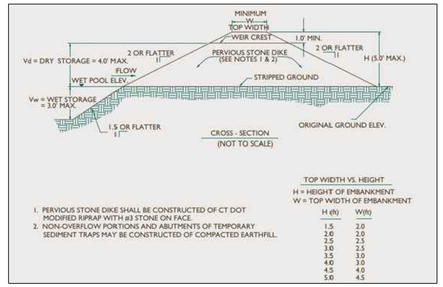
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NOTES:
1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF LIME, FERTILIZER,AND SEED.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
3. ROLL THE BLANKETS (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE.
4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2" OVERLAP.
5. WHEN BLANKETS MUST BE SPLICED DOWN THE SLOPE, PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH APPROXIMATELY 4" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART.

SLOPE STABILIZATION DETAIL

SCALE: NTS



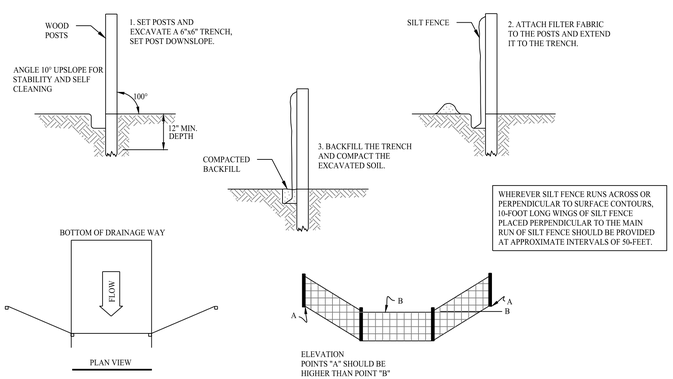
TOP WIDTH VS. HEIGHT
H = HEIGHT OF EMBANKMENT
W = TOP WIDTH OF EMBANKMENT

H (ft)	W(ft)
1.5	2.0
2.0	2.0
2.5	2.5
3.0	2.5
3.5	3.0
4.0	3.0
4.5	4.0
5.0	4.5

1. PERVIOUS STONE DIKE SHALL BE CONSTRUCTED OF CT DOT MODIFIED RIPRAP WITH ø3 STONE ON FACE.
2. NON-OVERFLOW PORTIONS AND ABUTMENTS OF TEMPORARY SEDIMENT TRAPS MAY BE CONSTRUCTED OF COMPACTED EARTHFILL.

TYPICAL SEDIMENT TRAP DETAIL

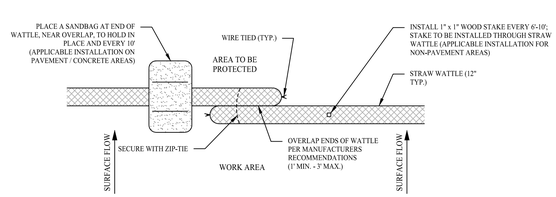
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WHEREVER SILT FENCE RUNS ACROSS OR PERPENDICULAR TO SURFACE CONTOURS, 10-FOOT LONG WINGS OF SILT FENCE PLACED PERPENDICULAR TO THE MAIN RUN OF SILT FENCE SHOULD BE PROVIDED AT APPROXIMATE INTERVALS OF 50-FEET.

SILT FENCE PROTECTION DETAIL

SCALE: NTS



STAKED STRAW WATTLE

SCALE: NTS

SOIL EROSION & SEDIMENT CONTROL NOTES

SEDIMENT & EROSION CONTROL NARRATIVE
THE SEDIMENT AND EROSION CONTROL PLAN WAS DEVELOPED TO PROTECT THE EXISTING ROADWAY AND STORM DRAINAGE SYSTEMS, ADJACENT PROPERTIES, AND ANY ADJACENT WETLAND AREA AND WATER COURSE FROM SEDIMENT LADEN SURFACE RUNOFF AND EROSION.

CONSTRUCTION SCHEDULE
THE ANTICIPATED STARTING DATE FOR CONSTRUCTION IS SPRING 2026 WITH COMPLETION ANTICIPATED BY WINTER 2026. APPROPRIATE EROSION CONTROL MEASURES AS DESCRIBED HEREIN, SHALL BE INSTALLED BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF ALL SITE CLEARING OR CONSTRUCTION ACTIVITY. SCHEDULE WORK TO MINIMIZE THE LENGTH OF TIME THAT BARE SOIL WILL BE EXPOSED.

CONTINGENCY EROSION PLAN
THE CONTRACTOR SHALL INSTALL ALL SPECIFIED EROSION CONTROL MEASURES AND WILL BE REQUIRED TO MAINTAIN THEM IN THEIR INTENDED FUNCTIONING CONDITION. THE LAND USE AGENTS OF THE TOWN OF TRUMBULL AND SITE/CIVIL ENGINEER SHALL HAVE THE AUTHORITY TO REQUIRE SUPPLEMENTAL MAINTENANCE OR ADDITIONAL MEASURES IF FIELD CONDITIONS ARE ENCOUNTERED BEYOND WHAT WOULD NORMALLY BE ANTICIPATED.

OPERATION REQUIREMENTS
CLEARING AND GRUBBING OPERATIONS:
1. ALL SEDIMENTATION AND EROSION CONTROL MEASURES WILL BE INSTALLED PRIOR TO THE START OF CLEARING AND GRUBBING OPERATIONS.
2. FOLLOWING INSTALLATION OF ALL SEDIMENTATION AND EROSION CONTROL MEASURES, THE CONTRACTOR SHALL NOT PROCEED WITH GRADING, FILLING, OR OTHER CONSTRUCTION OPERATIONS UNTIL THE SITE/CIVIL ENGINEER HAS INSPECTED AND APPROVED ALL INSTALLATIONS.
3. THE CONTRACTOR SHALL TAKE EXTREME CARE DURING CLEARING AND GRUBBING OPERATIONS SO AS NOT TO DISTURB UNPROTECTED WETLAND AREAS OR SEDIMENTATION AND EROSION CONTROL DEVICES.
4. FOLLOWING THE COMPLETION OF CLEARING AND GRUBBING OPERATIONS, ALL AREAS SHALL BE STABILIZED WITH TOPSOIL AND SEEDING OR PROCESSED AGGREGATE STONE AS SOON AS PRACTICAL.
5. ALL REMOVED INVASIVE PLANT SPECIES MATERIAL SHALL BE FULLY REMOVED FROM THE SITE AND TAKEN TO AN APPROVED AND/OR ACCEPTABLE DISPOSAL LOCATION.

ROUGH GRADING OPERATIONS:
1. DURING THE REMOVAL AND/OR PLACEMENT OF EARTH AS INDICATED ON THE GRADING PLAN, TOPSOIL SHALL BE STRIPPED AND APPROPRIATELY STOCKPILED FOR REUSE.
2. ALL STOCKPILED TOPSOIL SHALL BE SEEDED, MULCHED WITH STRAW, AND ENCLOSED BY A SILTATION FENCE.

FILLING OPERATIONS:
1. PRIOR TO FILLING, ALL SEDIMENTATION AND EROSION CONTROL DEVICES SHALL BE PROPERLY IMPLEMENTED, MAINTAINED AND FULLY INSTALLED, AS DIRECTED BY THE SITE/CIVIL ENGINEER, OR REPRESENTATIVE, AND AS SHOWN ON THIS PLAN.
2. ALL FILL MATERIAL ADJACENT TO ANY WETLAND AREAS, IF APPLICABLE TO THIS PROJECT, SHALL BE GOOD QUALITY, WITH LESS THAN 5% FINES PASSING THROUGH A #200 SIEVE (BANK RUN), SHALL BE PLACED IN LIFT THICKNESS NOT GREATER THAN THAT SPECIFIED IN PROJECT SPECIFICATIONS. LIFTS SHALL BE COMPACTED TO 95% MAX. DRY DENSITY MODIFIED PROCTOR OR AS SPECIFIED IN THE CONTRACT SPECIFICATIONS OR IN THE GEOTECHNICAL REPORT.

PLACEMENT OF DRAINAGE STRUCTURES, UTILITIES, AND ROADWAY CONSTRUCTION OPERATIONS:
1. SILT FENCES SHALL BE INSTALLED AT THE DOWNHILL SIDES OF MUD PUMP DISCHARGES AND UTILITY TRENCH MATERIAL STOCKPILES. STRAW BALES MAY BE USED IF SHOWN ON THE EROSION CONTROL PLANS OR IF DIRECTED BY THE SITE/CIVIL ENGINEER.

FINAL GRADING AND PAVING OPERATIONS:
1. ALL INLET AND OUTLET PROTECTION SHALL BE PLACED AND MAINTAINED AS SHOWN ON EROSION CONTROL PLANS AND DETAILS, AND AS DESCRIBED IN SPECIFICATIONS AND AS DESCRIBED HEREIN.
2. NO CUT OR FILL SLOPES SHALL EXCEED 2:1 EXCEPT WHERE STABILIZED BY ROCK FACED EMBANKMENTS OR EROSION CONTROL BLANKETS, JUTE MESH AND VEGETATION. ALL SLOPES SHALL BE SEEDED, AND ANY ROAD OR DRIVEWAY SHOULDER AND BANKS SHALL BE STABILIZED IMMEDIATELY UPON COMPLETION OF FINAL GRADING UNTIL TURF IS ESTABLISHED.
3. PAVEMENT SUB-BASE AND BASE COURSES SHALL BE INSTALLED OVER AREAS TO BE PAVED AS SOON AS FINAL SUB-GRADES ARE ESTABLISHED AND UNDERGROUND UTILITIES AND STORM DRAINAGE SYSTEMS HAVE BEEN INSTALLED.
4. AFTER CONSTRUCTION OF PAVEMENT, TOPSOIL, FINAL SEED, MULCH AND LANDSCAPING, REMOVE ALL TEMPORARY EROSION CONTROL DEVICES ONLY AFTER ALL AREAS HAVE BEEN PAVED AND/OR GRASS HAS BEEN WELL ESTABLISHED AND THE SITE HAS BEEN INSPECTED AND APPROVED BY THE TOWN OF TRUMBULL.

INSTALLATION OF SEDIMENTATION AND EROSION CONTROL MEASURES

I. SILTATION FENCE:
- A. DIG A SIX INCH TRENCH ON THE UPHILL SIDE OF THE DESIGNATED FENCE LINE LOCATION.
- B. POSITION THE POST AT THE BACK OF THE TRENCH (DOWNHILL SIDE), AND HAMMER THE POST AT LEAST 1.5 FEET INTO THE GROUND.
- C. LAY THE BOTTOM SIX INCHES OF THE FABRIC INTO THE TRENCH TO PREVENT UNDERMINING BY STORM WATER RUN-OFF.
- D. BACKFILL THE TRENCH AND COMPACT.

II. SILT SACK INLET PROTECTION
- A. INLET PROTECTION SHALL BE IMMEDIATELY PROVIDED AND MAINTAINED FOR ALL INSTALLED CATCH BASINS AND YARD DRAINS UNTIL THE SITE IS PERMANENTLY STABILIZED.
- B. REMOVE CATCH BASIN GRATE AND PROPERLY PLACE THE SILT SACK INTO THE FRAME OF THE CATCH BASIN.
- C. PLACE GRATE BACK ONTO FRAME AND ENSURE NO PORTIONS OF THE SILT SACK HAVE SAGGED INTO THE CATCH BASIN.
- D. ONCE GRATE IS PLACED BACK ONTO FRAME OBSERVE TO SEE IF SILT SACK IS INSTALLED IN A MANNER THAT WILL ALLOW FOR SEDIMENT TO BE FILTERED OUT DURING STORM EVENTS.

III. CONSTRUCTION ENTRANCE
- A. REMOVE ALL VEGETATION AND OTHER MATERIALS FROM THE FOUNDATION AREA. GRADE AND CROWN FOUNDATION FOR POSITIVE DRAINAGE.
- B. PLACE 1-3IN STONE A MINIMUM OF 50FT ALONG THE FULL WIDTH OF THE CONSTRUCTION ACCESS ROAD. AGGREGATE SHOULD BE PLACED AT LEAST 6" THICK.
- C. GEOTEXTILE FILTER FABRIC SHALL BE PLACED BETWEEN STONE FILL AND EARTH SURFACE TO TO REDUCE THE MIGRATION OF SOIL PARTICLES FROM THE UNDERLYING SOIL INTO THE STONE AND VICE VERSA.
- D. ALL SURFACE WATER THAT IS FLOWING TO OR DIVERTED TOWARD THE CONSTRUCTION ENTRANCE SHALL BE PIPED BENEATH THE ENTRANCE.
- E. FILTER FABRIC FENCE SHALL BE INSTALLED DOWN GRADIENT FROM THE CONSTRUCTION ENTRANCE IN ORDER TO CONTAIN ANY SEDIMENT-LADEN RUNOFF FROM THE ENTRANCE.

IV. SEDIMENT TRAP
- A. CLEAR, GRUB, AND STRIP ALL VEGETATION FROM THE EMBANKMENT AREA.
- B. COMPACT AND FILL EMBANKMENT IN 9" LIFTS.
- C. OVERFILL EMBANKMENT 6" ABOVE DESIGN ELEVATION TO ALLOW FOR SETTLEMENT.
- D. EVACUATE TRAPEZOIDAL STONE OUTLET SECTION FROM COMPACTED EMBANKMENT. INSTALL FILER FABRIC UNDER RIPRAP.

OPERATION AND MAINTENANCE OF SEDIMENTATION AND EROSION CONTROL MEASURES

I. SILTATION FENCE:
- A. ALL SILTATION FENCES SHALL BE INSPECTED AS A MINIMUM WEEKLY OR AFTER EACH RAINFALL. ALL DETERIORATED FABRIC AND DAMAGED POSTS SHALL BE REPLACED AND PROPERLY REPOSITIONED IN ACCORDANCE WITH THIS PLAN.
- B. SEDIMENT DEPOSITS SHALL BE REMOVED FROM BEHIND THE FENCE WHEN THEY EXCEED A HEIGHT OF ONE FOOT.

II. SILT SACK INLET PROTECTION
- A. ALL SILT SACK INLET PROTECTION DEVICES SHALL BE INSPECTED AS A MINIMUM WEEKLY OR AFTER EACH RAINFALL. ALL DETERIORATE SILT SACKS AND SACKS THAT APPEAR TO HAVE AN EXCESS OF SEDIMENT SHALL BE REPLACED AND PROPERLY REPOSITIONED IN ACCORDANCE WITH THIS PLAN.
- B. SEDIMENT DEPOSITS SHALL BE REMOVED FROM THE SILT SACKS WHEN THEY EXCEED A COUPLE INCHES OF SEDIMENT WITHIN THE CATCH BASIN.

III. CONSTRUCTION ENTRANCE
- A. THE CONSTRUCTION ENTRANCE AND FENCE SHALL BE INSPECTED AT A MINIMUM WEEKLY AND AFTER HEAVY RAINS OR HEAVY USE.
- B. REMOVE MUD AND HEAVY SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROAD IMMEDIATELY.
- C. THE GRAVEL PAD SHALL BE TOPDRESSED WITH NEW STONE WHEN MUD AND SOIL PARTICLES CLOG THE VOIDS IN THE GRAVEL.
- D. RESHAPE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL.
- E. REPAIR ANY BROKEN ROAD PAVEMENT IMMEDIATELY.

IV. SEDIMENT TRAP
- A. INSPECT SEDIMENT TRAP AFTER EACH SIGNIFICANT RAINFALL EVENT. REPAIR ANY EROSION OR PIPING HOLES IMMEDIATELY.
- B. SET A STAKE AT ONE HALF THE DESIGN DEPTH OF THE SEDIMENT TRAP. REMOVE SEDIMENT WHEN IT HAS ACCUMULATED TO ONE-HALF THE DESIGN DEPTH.
- C. CLEAN OR REPLACE SPILLWAY GRAVEL FACING IF CLOGGED.
- D. PROMPTLY REPLACE ANY DISPLACED RIPRAP.
- E. INSPECT VEGETATION; RESEED AND REMULCH IF NECESSARY.
- F. CHECK SPILLWAY DEPTH PERIODICALLY. FILL ANY LOW AREAS OF THE EMBANKMENT TO MAINTAIN DESIGN ELEVATION.

EROSION AND SEDIMENT CONTROL PLAN
1. CATCH BASINS WILL BE PROTECTED WITH STRAW BALE FILTERS, SILT SACKS, SILTATION FENCE, OR OTHER INLET PROTECTION DEVICES PER DETAILS. THROUGHOUT THE CONSTRUCTION PERIOD AND UNTIL ALL DISTURBED AREAS ARE THOROUGHLY STABILIZED.
2. ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL MANUAL, LATEST EDITION.
3. EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED PRIOR TO CONSTRUCTION WHENEVER POSSIBLE.
4. ALL CONTROL MEASURES WILL BE MAINTAINED IN EFFECTIVE CONDITION THROUGHOUT THE CONSTRUCTION PERIOD.
5. ADDITIONAL CONTROL MEASURES WILL BE INSTALLED DURING THE CONSTRUCTION PERIOD, IF NECESSARY OR REQUIRED OR AS DIRECTED BY THE SITE/CIVIL ENGINEER, OR REPRESENTATIVE OF, OR BY LOCAL GOVERNING OFFICIALS.
6. SEDIMENT REMOVED FROM EROSION CONTROL STRUCTURES WILL BE DISPOSED IN A MANNER WHICH IS CONSISTENT WITH THE INTENT AND REQUIREMENTS OF THE EROSION CONTROL PLANS, NOTES, AND DETAILS.
7. THE OWNER IS ASSIGNED THE RESPONSIBILITY FOR IMPLEMENTING THIS EROSION AND SEDIMENT CONTROL PLAN. THIS RESPONSIBILITY INCLUDES THE INSTALLATION AND MAINTENANCE OF CONTROL MEASURES, INFORMING ALL PARTIES ENGAGED ON THE CONSTRUCTION SITE OF THE REQUIREMENTS AND OBJECTIVES OF THE PLAN.

SEDIMENT AND EROSION CONTROL NOTES
1. THE OWNER IS RESPONSIBLE FOR IMPLEMENTING THIS SEDIMENT AND EROSION CONTROL PLAN. THIS RESPONSIBILITY INCLUDES THE PROPER INSTALLATION AND MAINTENANCE OF EROSION CONTROL MEASURES, INFORMING ALL PARTIES ENGAGED WITH CONSTRUCTION ON THE SITE OF THE REQUIREMENTS AND OBJECTIVES OF THIS PLAN, INFORMING THE GOVERNING AUTHORITY OR INLAND WETLANDS AGENCY OF ANY TRANSFER OF THIS RESPONSIBILITY, AND FOR CONVEYING A COPY OF THE SEDIMENT & EROSION CONTROL PLAN IF THE TITLE TO THE LAND IS TRANSFERRED.
2. AN EROSION CONTROL BOND MAY BE REQUIRED TO BE POSTED WITH THE TOWN OF TRUMBULL TO ENSURE IMPLEMENTATION OF THE EROSION CONTROL MEASURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE POSTING OF THIS BOND AND FOR INQUIRIES TO THE TOWN OF TRUMBULL FOR INFORMATION ON THE METHOD, TYPE AND AMOUNT OF THE BOND POSTING UNLESS OTHERWISE DIRECTED BY THE OWNER.
3. VISUAL SITE INSPECTIONS SHALL BE CONDUCTED WEEKLY, AND AFTER EACH MEASURABLE PRECIPITATION EVENT OF 0.25 INCHES OR GREATER BY QUALIFIED PERSONNEL, TRAINED AND EXPERIENCED IN EROSION AND SEDIMENT CONTROL, TO ASCERTAIN THAT THE EROSION AND SEDIMENT CONTROL (E&S) BMPS ARE OPERATIONAL AND EFFECTIVE IN PREVENTING POLLUTION. A WRITTEN REPORT OF EACH INSPECTION SHALL BE KEPT, AND INCLUDE:
   A) A SUMMARY OF THE SITE CONDITIONS, E&S BMPS, AND COMPLIANCE; AND
   B) THE DATE, TIME, AND THE NAME OF THE PERSON CONDUCTING THE INSPECTION
4. THE CONTRACTOR SHALL CONSTRUCT ALL SEDIMENT AND EROSION CONTROLS IN ACCORDANCE WITH THE CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, PREPARED BY CTDEEP, LATEST EDITION IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, AND AS DIRECTED BY THE TOWN OF TRUMBULL. THE CONTRACTOR SHALL KEEP A COPY OF THE GUIDELINES ON-SITE FOR REFERENCE DURING CONSTRUCTION.
5. ADDITIONAL AND/OR ALTERNATIVE SEDIMENT AND EROSION CONTROL MEASURES MAY BE INSTALLED DURING THE CONSTRUCTION PERIOD IF FOUND NECESSARY BY THE CONTRACTOR, OWNER, SITE/CIVIL ENGINEER, TOWN OF TRUMBULL, OR GOVERNING AGENCIES. THE CONTRACTOR SHALL CONTACT THE OWNER AND APPROPRIATE GOVERNING AGENCIES FOR APPROVAL IF ALTERNATIVE CONTROLS OTHER THAN THOSE SHOWN ON THE PLANS ARE PROPOSED.
6. THE CONTRACTOR SHALL INSPECT ALL SEDIMENT AND EROSION CONTROLS BEFORE AND AFTER EACH STORM (0.25 INCHES OR GREATER RAINFALL), OR AT LEAST WEEKLY, TO VERIFY THAT THE CONTROLS ARE OPERATING PROPERLY AND MAKE REPAIRS WHERE NECESSARY.
7. THE CONTRACTOR SHALL KEEP A SUPPLY OF EROSION CONTROL MATERIAL (STRAW BALES, SILT FENCE, JUTE MESH,RIP RAP ETC.) ON-SITE FOR MAINTENANCE AND EMERGENCY REPAIRS.
8. INSTALL PERIMETER SEDIMENT CONTROLS PRIOR TO CLEARING OR CONSTRUCTION. ALL CONSTRUCTION SHALL BE CONTAINED WITHIN THE LIMIT OF DISTURBANCE, WHICH SHALL BE MARKED WITH SILT FENCE, SAFETY FENCE, STRAW BALES, RIBBONS, OR OTHER MEANS PRIOR TO CLEARING. CONSTRUCTION ACTIVITY SHALL REMAIN ON THE UPHILL SIDE OF THE SILT FENCE UNLESS WORK IS SPECIFICALLY CALLED FOR ON THE DOWNHILL SIDE OF THE FENCE.
9. TOPSOIL SHALL BE STRIPPED AND STOCKPILED FOR USE IN FINAL LANDSCAPING. ALL EARTH STOCKPILES SHALL HAVE STRAW BALES OR SILT FENCE AROUND THE LIMIT OF PILE. PILES SHALL BE TEMPORARILY SEEDED IF PILE IS TO REMAIN IN PLACE FOR MORE THAN 7 DAYS.
10. MINIMIZE LAND DISTURBANCES. SEED AND MULCH DISTURBED AREAS WITH TEMPORARY MIX AS SOON AS PRACTICABLE (2 WEEK MAXIMUM UNSTABILIZED PERIOD) USING PERENNIAL RYEGRASS AT 40 LBS PER ACRE. MULCH ALL CUT AND FILL SLOPES AND SWALES WITH LOOSE STRAW AT A RATE OF 2 TONS PER ACRE. IF NECESSARY, REPLACE LOOSE STRAW ON SLOPES WITH EROSION CONTROL BLANKETS OR JUTE CLOTH. MODERATELY GRADED AREAS, ISLANDS, AND TEMPORARY CONSTRUCTION STAGING AREAS MAY BE HYDROSEEDED WITH TACKIFIER.
11. SILT FENCE AND OTHER SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH CONTRACT DRAWINGS AND MANUFACTURER'S RECOMMENDATIONS PRIOR TO WORK IN ANY UPLAND AREAS.
12. INSTALL SILT FENCE ACCORDING TO MANUFACTURER'S INSTRUCTION, PARTICULARLY, BURY LOWER EDGE OF FABRIC INTO GROUND. SILT FENCE SHALL BE MIRAFI ENVIROFENCE, AMOCO SILT STOP OR EQUIVALENT APPROVED BY THE SITE/CIVIL ENGINEER. FILTER FABRIC USED SHALL BE MIRAFI 100X OR EQUIVALENT. SEE SPECIFICATIONS FOR FURTHER INFORMATION.
13. DIRECT ALL DEWATERING PUMP DISCHARGE TO A SEDIMENT CONTROL DEVICE SUCH AS TEMPORARY PITS OR GRASS FILTERS WITHIN THE APPROVED LIMIT OF DISTURBANCE. DISCHARGE TO STORM DRAINAGE SYSTEM OR SURFACE WATERS FROM SEDIMENT CONTROLS SHALL BE CLEAR.
14. SWEEP AFFECTED PORTIONS OF OFF SITE ROADS ONE OR MORE TIMES A DAY (OR LESS FREQUENTLY IF TRACKING IS NOT A PROBLEM) DURING CONSTRUCTION. OTHER DUST CONTROL MEASURES TO BE USED AS NECESSARY INCLUDE WATERING DOWN DISTURBED AREAS, USING CALCIUM CHLORIDE, AND COVERING LOADS ON DUMP TRUCKS.
15. CLEAN ACCUMULATED SEDIMENT FROM CATCH BASIN SUMPS AS NECESSARY AND AS DIRECTED BY THE SITE/CIVIL ENGINEER OR OWNER'S CONSTRUCTION REPRESENTATIVE. REMOVE ACCUMULATED SEDIMENT FROM BEHIND STRAW BALES AND SILT FENCE WHEN LEVEL REACHES HALF THE HEIGHT OF THE STRAW BALE OR ONE FOOT AT SILT FENCE. DISPOSE OF SEDIMENT LEGALLY EITHER ON OR OFF SITE.
16. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO ELIMINATE THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION.
17. ALL PUMPING OF SEDIMENT LADEN WATER SHALL BE THROUGH A SEDIMENT CONTROL BMP, SUCH AS A PUMPED WATER FILTER BAG OR EQUIVALENT SEDIMENT REMOVAL FACILITY, OVER UNDISTURBED VEGETATED AREAS.
18. ALL EXCAVATED MATERIAL SHALL BE PLACED ON THE HIGH SIDE OF UTILITY AND STORM PIPE TRENCHES SO AS TO ALLOW THE TRENCH TO INTERCEPT ALL SILT LADEN RUNOFF.
19. CONTRACTOR SHALL ONLY EXCAVATE AS MUCH UTILITY AND STORM PIPE TRENCH WORK AS CAN BE COMPLETED, BACKFILLED AND STABILIZED IN ONE DAY SO AS TO LIMIT THE AMOUNT OF OPEN, DISTURBED TRENCHING.
20. ANY STOCKPILES OF STRIPPED MATERIALS ARE TO BE PERIODICALLY SPRAYED WITH WATER OR A CRUSTING AGENT TO STABILIZE POTENTIALLY WIND-BLOWN MATERIAL. HAUL ROADS BOTH INTO AND AROUND THE SITE ARE TO BE SPRAYED AS NEEDED TO SUPPRESS DUST. TRUCKS HAULING IMPORT FILL MATERIAL ARE TO BE TARPED TO AID IN THE CONTROL OF AIRBORNE DUST. DURING HIGH WIND EVENTS (20 TO 30 MPH SUSTAINED) CONSTRUCTION ACTIVITY SHALL BE LIMITED OR CEASED IF DUST CANNOT BE CONTROLLED BY WETTING.
21. AN AREA SHALL BE CONSIDERED TO HAVE ACHIEVED FINAL STABILIZATION WHEN IT HAS A MINIMUM OF 70% UNIFORM PERENNIAL VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED SURFACE EROSION AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING OR OTHER MOVEMENTS.
22. MAINTAIN ALL PERMANENT AND TEMPORARY SEDIMENT CONTROL DEVICES IN EFFECTIVE CONDITION THROUGHOUT THE CONSTRUCTION PERIOD. UPON COMPLETION OF WORK SWEEP PARKING LOT AND REMOVE ALL TEMPORARY SEDIMENT CONTROLS WHEN AUTHORIZED BY LOCAL GOVERNING AUTHORITY. FILE NOT (NOTICE OF TERMINATION) WITH GOVERNING AUTHORITY RESPONSIBLE FOR REGULATING STORM WATER DISCHARGES FROM CONSTRUCTION ACTIVITIES PER NPDES.

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Approved By:	KMS
Project #:	24116901
Plan Date:	11/07/25
Scale:	AS NOTED

STATE OF CONNECTICUT · KEVIN M. SOLLI · 25759 · LICENSED PROFESSIONAL ENGINEER
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Project:

PROPOSED REDEVELOPMENT

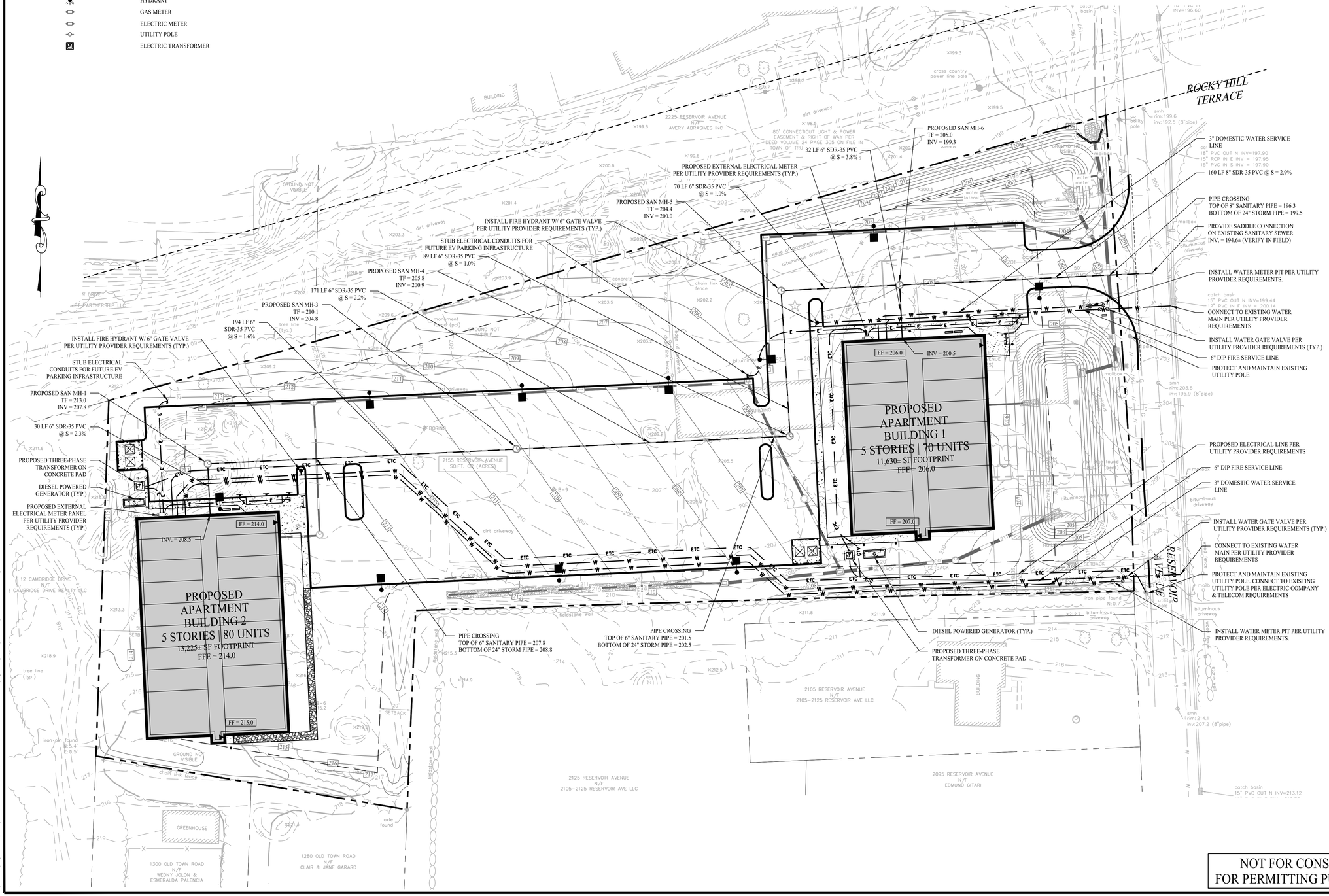
2135, 2145, & 2155 RESERVOIR AVENUE
TRUMBULL, CONNECTICUT

Sheet Title:	Sheet #:
SOIL EROSION & SEDIMENT CONTROL NOTES AND DETAILS	2.41

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LEGEND

- PROPERTY LINE
- RIGHT-OF-WAY LINE
- ADJOINING LOT LINE
- WATER MAIN / LATERAL
- GAS LINE
- ELECTRIC CONDUIT
- CABLE & TELEPHONE CONDUIT
- UNDERGROUND ELECTRIC, TELEPHONE AND CABLE LINES
- SANITARY SEWER PIPE
- SANITARY SEWER MANHOLE
- WATER VALVE
- HYDRANT
- GAS METER
- ELECTRIC METER
- UTILITY POLE
- ELECTRIC TRANSFORMER



GENERAL NOTES

1. THESE PLANS ARE FOR PERMITTING PURPOSES ONLY AND ARE NOT FOR CONSTRUCTION. NO CONSTRUCTION OR DEMOLITION SHALL BEGIN UNTIL FINAL APPROVAL OF THIS PLAN IS GRANTED BY ALL GOVERNING AND REGULATORY AGENCIES.
2. ALL PROPOSED SITE WORK IS TO BE COMPLETED IN ACCORDANCE WITH ALL PERMITS, APPROVALS, AND CONDITIONS OF APPROVALS ISSUED BY LOCAL, STATE AND/OR FEDERAL REVIEWING AGENCIES.
3. EXISTING BOUNDARY AND TOPOGRAPHY IS BASED ON DRAWING TITLED "PROPERTY SURVEY OF 2135, 2145 & 2155 RESERVOIR AVENUE, TRUMBULL, CONNECITCUT, PREPARED FOR VESSEL TECHNOLOGIES", SCALE 1"=30', DATED JULY 24, 2025, PERFORMED BY ACCURATE LAND SURVEYING, LLC.
4. ALL CONSTRUCTION SHALL COMPLY WITH TOWN OF TRUMBULL STANDARDS, CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS IN THE ABOVE REFERENCED INCREASING HIERARCHY. IF SPECIFICATIONS ARE IN CONFLICT, THE MORE STRINGENT SPECIFICATION SHALL APPLY. ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE OSHA, FEDERAL, STATE AND LOCAL REGULATIONS.

SITE UTILITY NOTES

1. SEE SHEET 2.21 FOR DETAILS REGARDING THE PROPOSED GRADING AND DRAINAGE FEATURES, STORMWATER CONVEYANCE, AND STORMWATER DETENTION FACILITIES.
2. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, UTILITY LOCATIONS, AND INVERTS PRIOR TO CONSTRUCTION. ANY CONDITIONS FOUND TO DIFFER FROM THOSE SHOWN IN THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE SITE/CIVIL ENGINEER.
3. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS FOR ACTUAL LOCATIONS OF ALL UTILITY ENTRANCES TO INCLUDE SANITARY SEWER LATERALS, DOMESTIC AND FIRE PROTECTION WATER SERVICE, ELECTRICAL, TELEPHONE AND GAS SERVICE, ROOF DRAINS, AND ALL OTHER UTILITIES. CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO AVOID CONFLICTS AND TO ENSURE PROPER DEPTHS ARE ACHIEVED AS WELL AS COORDINATING WITH THE REGULATORY AGENCY AS TO LOCATION OF AND SCHEDULING OF CONNECTIONS TO THEIR FACILITIES.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING UTILITY COMPANIES 72 HOURS PRIOR TO BEGINNING EXCAVATION AND INSTALLATION.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND ALL PAVEMENT REPAIRS REQUIRED AS A RESULT OF ANY UTILITY WORK.
6. ALL TRENCHING, PIPE LAYING, AND BACKFILLING SHALL BE IN ACCORDANCE WITH FEDERAL OSHA REGULATIONS.
7. CONTRACTOR SHALL MAINTAIN A MINIMUM OF 2 FEET OF COVER FOR ALL UNDERGROUND ELECTRIC AND TELEPHONE UTILITIES.
8. CONTRACTOR SHALL MAINTAIN A MINIMUM OF 4.5 FEET OF COVER FOR ALL WATER DISTRIBUTION PIPING.
9. ALL NEW WATER LINES SHALL BE PRESSURE TESTED AND LEAKAGE TESTED IN ACCORDANCE WITH THE LATEST EDITION OF AWWA STANDARD C600.
10. ALL NEW WATER MAINS SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA STANDARD C651.
11. ALL DOMESTIC WATER AND SANITARY SEWER STUBS TO BE TERMINATED 5 FEET OUTSIDE OF THE BUILDING UNLESS OTHERWISE NOTED. THE END OF THESE SERVICE LINES SHALL BE TIGHTLY PLUGGED OR CAPPED AND MARKED UNTIL SUCH TIME AS CONNECTION IS MADE INSIDE BUILDING BY PLUMBING CONTRACTOR.
12. ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES, REGULATIONS, AND/OR LOCAL STANDARDS IMPOSED BY LOCAL UTILITY AUTHORITIES.
13. CONTRACTOR SHALL ADJUST LOCATION OF PROPOSED WATER LINES AS REQUIRED TO AVOID CONFLICTS WITH STORM SEWER OR OTHER UTILITIES AT NO EXTRA COST.
14. ALL MATERIAL SHALL BE APPROVED BY THE LOCAL UTILITY COMPANIES UNLESS DIRECTED OTHERWISE BY THE SITE/CIVIL ENGINEER.
15. SHOULD LATENT SOIL CONDITIONS NECESSITATE, CONTRACTOR SHALL INSTALL SPECIAL SUPPORTS FOR PIPING AND/OR APPURTENANCES INCLUDING THE REMOVAL OF UNSUITABLE MATERIAL AND BACKFILLING WITH GRAVEL OR OTHER APPROVED MATERIAL. CONTRACTOR SHALL PERFORM ANY SUCH WORK AS DIRECTED BY THE SITE/CIVIL ENGINEER AND/OR SOILS ENGINEER AT NO COST TO OWNER.
16. V.I.F. = VERIFY IN FIELD
17. PROJECT MUST BE CONSTRUCTED TO ALL WATER COMPANY SPECIFICATIONS.
18. COPPER AND/OR DUCTILE IRON SERVICE LATERAL MATERIAL REQUIRED.
19. GATE VALVES OPEN LEFT.
20. SITE CONTRACTOR IS RESPONSIBLE FOR FURNISHING AND INSTALLING ANY REQUIRED CONNECTORS/ADAPTORS TO CONNECT SITE PIPING/CONDUITS, ETC. TO BUILDING UTILITIES INSTALLED BY OTHERS.
21. EXISTING WATER SERVICES SHALL BE ABANDONED BY TERMINATING AT THE WATER MAIN.

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Graphic Scale: 30 0 30 60

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Drawn By:	BPD
Checked By:	LAM
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Project #:	24116901
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Scale:	1" = 30'

STATE OF CONNECTICUT · KEVIN M. SOLLI · 25759 · LICENSED PROFESSIONAL ENGINEER
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Project:

PROPOSED REDEVELOPMENT

2135, 2145, & 2155 RESERVOIR AVENUE
TRUMBULL, CONNECTICUT

Sheet Title:	Sheet #:
UTILITY PLAN	2.51

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PLANTING NOTES

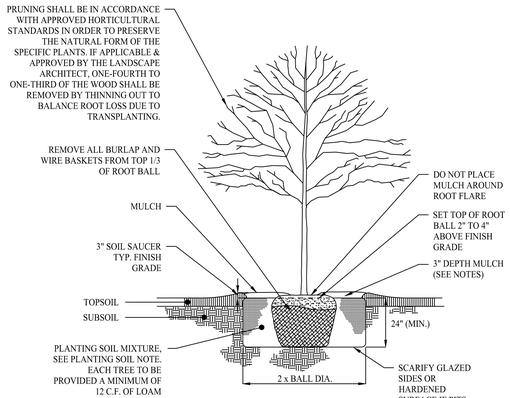
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2. ALL PLANTINGS ARE TO BE INSTALLED BY A QUALIFIED LANDSCAPE CONTRACTOR.
3. THE CONTRACTOR SHALL BE REQUIRED TO CARRY WORKMEN'S COMPENSATION INSURANCE AND COMPREHENSIVE GENERAL LIABILITY INSURANCE. CERTIFICATES WILL BE REQUIRED PRIOR TO SIGNING CONTRACTS.
4. CONTRACTOR IS RESPONSIBLE FOR JOBSITE SAFETY. CONTRACTOR SHALL MAINTAIN A SAFE JOBSITE AT ALL TIMES.
5. CONTRACTOR SHALL BE FAMILIAR WITH THE SITE TO VERIFY ALL DIMENSIONS, GRADES, AND EXISTING CONDITIONS. REPORT ANY DISCREPANCIES TO LANDSCAPE DESIGNER.
6. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS AND LICENSES REQUIRED FOR COMPLETING WORK.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSAL OF ALL EXCAVATED SOIL, BRUSH, AND DEBRIS OFF-SITE IN A SAFE AND LEGAL MANNER.
8. NOTIFY OWNER OR LANDSCAPE DESIGNER 72 HOURS MINIMUM IN ADVANCE OF STARTING PLANTING OPERATIONS. RECEIVE APPROVAL FOR LAYOUT OF ALL BED LINES AND MATERIAL LOCATIONS PRIOR TO INSTALLATION.
9. PROTECT EXISTING VEGETATION TO REMAIN FROM DAMAGE DURING CONSTRUCTION. IT IS THE INTENT OF THIS CONTRACT TO AVOID ANY DISTURBANCE TO EXISTING VEGETATION ON THE SITE OTHER THAN THOSE SPECIFICALLY DESIGNATED FOR REMOVAL. ADJUSTMENTS SHALL BE MADE IN THE FIELD AT THE DIRECTION OF THE LANDSCAPE DESIGNER.
10. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL PLANTING, SEEDING, AND TREE WORK WITH OTHER TRADES. RESPECT OTHER TRADES WORK AT ALL TIMES.
11. CONTRACTOR IS TO EXERCISE EXTREME CARE DURING THE COURSE OF DEMOLITION AND REMOVALS. ANY DAMAGE TO EXISTING FACILITIES, UTILITIES, OR TREES TO REMAIN SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO REPLACE IN KIND.
12. CONTRACTOR IS RESPONSIBLE FOR RESTORING ALL AREAS DAMAGED TO PRE-EXISTING CONDITIONS AS A RESULT OF PLANTING OPERATIONS TO OWNERS AND/OR LANDSCAPE DESIGNERS APPROVAL.
13. VEGETATION TO BE REMOVED, NOT INDICATED ON PLAN, SHALL BE TAGGED IN FIELD BY LANDSCAPE DESIGNER.
14. THE LANDSCAPE DESIGNER RESERVES THE RIGHT TO REJECT INFERIOR PLANT MATERIALS AND SUBSTITUTIONS. THE LANDSCAPE DESIGNER IS WILLING TO MAKE TWO TRIPS TO SUPPLIERS TO TAG, REVIEW AND APPROVE MATERIALS. PREVIOUSLY UNAPPROVED MATERIALS MAY BE REJECTED AT THE SITE. MINIMALLY, ALL MATERIALS WILL CONFORM TO THE "AMERICAN STANDARD FOR NURSERY STOCK" (ANSI Z60.1 - 2004) OF THE AMERICAN ASSOCIATION OF NURSERYMEN.
15. ALL PLANT MATERIAL SHALL BE GUARANTEED BY THE CONTRACTOR TO BE IN GOOD, HEALTHY, AND FLOURISHING CONDITION FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE. THE CONTRACTOR SHALL REPLACE, AS SOON AS WEATHER AND SEASONAL CONDITIONS PERMIT, ALL DEAD PLANTS AND ALL PLANTS NOT IN A VIGOROUS, THRIVING CONDITION, AS DETERMINED BY THE LANDSCAPE DESIGNER DURING, AND AT THE END OF THE GUARANTEE PERIOD. WARRANTY REPLACEMENT WILL BE PROVIDED AT NO COST TO THE OWNER AND INCLUDE MATERIALS AND LABOR. CONTRACTOR IS RESPONSIBLE FOR REPAIR OF ANY DAMAGE INCURRED DURING REPLACEMENT OF WARRANTY MATERIALS.
16. WHEN THERE IS A DISCREPANCY BETWEEN PLANT QUANTITIES SHOWN ON THE PLANT SCHEDULE AND THE PLAN, USE THE QUANTITIES FROM THE PLAN.
17. PERENNIALS, GROUNDCOVERS & GRASSES TO BE FIELD LOCATED BY LANDSCAPE DESIGNER. COORDINATE TO NOTIFY LANDSCAPE DESIGNER AT LEAST 72 HOURS IN ADVANCE OF EXPECTED INSTALLATION DATE. ON THAT DATE ALL BEDS SHALL BE PREPARED AND ALL PLANT MATERIAL SHALL BE ON SITE.
18. PROVIDE A MINIMUM 4" TOPSOIL FOR ALL DISTURBED AREAS. SUBMIT SAMPLE OF TOPSOIL AND SOIL TEST RESULTS FOR LANDSCAPE DESIGNER APPROVAL PRIOR TO DELIVERING TO SITE.
19. ALL PLANT MATERIALS TO BE SOURCED FROM LOCALLY GROWN GROWERS.

PLANTING SOIL NOTES

1. ALL PLANTING MIXES SHALL BE PREPARED PRIOR TO DELIVERY TO SITE.
2. PLANTING MIX FOR TREES AND SHRUBS SHALL BE AS FOLLOWS:
   3 PARTS SCREENED TOPSOIL
   1 PART CLEAN WASHED COARSE SAND
   1 PART PEAT HUMUS
   5 LBS. SUPER PHOSPHATE PER CUBIC YARD OF MIX
3. MYCORRHIZAL INNCOULANT TO BE MYCOR TREE SAVER TRANSPLANT BY PLANT HEALTH CARE, INC. (1-800-421-9051) OR APPROVED EQUAL.
4. TERRASORB AVAILABLE FROM PLANT HEALTH CARE, INC. OR APPROVED EQUAL.
5. SUBMIT CERTIFICATION OF PLANTING MIX FOR TREES AND SHRUBS FROM SOIL DISTRIBUTOR.
6. TOPSOIL MIX SHALL INCLUDE:
   3 PARTS SCREENED TOPSOIL
   1 PART SAND
   1 PART HUMUS
   5 LBS. SUPER PHOSPHATE PER CU. YD. OF MIX
7. TOPSOIL:
   A. PROVIDE A NATURAL, FERTILE, FRIABLE, NATURAL LOAM SURFACE SOIL CAPABLE OF SUSTAINING VIGOROUS PLANT GROWTH OF UNIFORM COMPOSITION THROUGHOUT AND WITHOUT ADMIXTURES OF SUBSOIL, AND FREE OF STONES, LUMPS, PLANTS, ROOTS, STICKS OR OTHER EXTRANEOUS MATTER.
   B. TOPSOIL SHALL CONTAIN NOT LESS THAN 4% NOR MORE THAN 20% ORGANIC MATTER AS DETERMINED BY THE WET COMBUSTION METHOD.
   C. MECHANICAL ANALYSIS

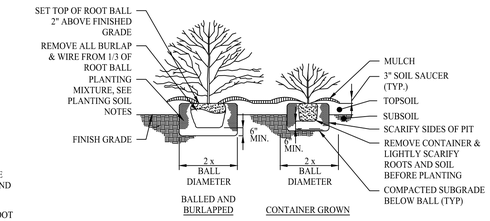
SCREEN SIZE	% BY WEIGHT PASSING
1"	100
1/4"	97 - 100
NO. 200	20 - 65

   D. CONTRACTORS SHALL BE RESPONSIBLE FOR ALL TESTING AND ANALYSIS OF EXISTING AND IMPORTED SOILS. FURNISH A SOIL ANALYSIS MADE BY A QUALIFIED INDEPENDENT SOIL-TESTING AGENCY STATING PERCENTAGES OF ORGANIC MATTER, INORGANIC MATTER (SILT, CLAY, AND SAND), DELETERIOUS MATERIAL, PH, AND MINERAL AND PLANT-NUTRIENT CONTENT OF TOPSOIL.
   E. REPORT SUITABILITY OF TOPSOIL FOR LAWN AND SHRUB PLANTING GROWTH. RECOMMEND QUANTITIES OF NITROGEN, PHOSPHORUS, AND POTASH NUTRIENT AND ANY LIMESTONE, ALUMINUM SULFATE, OR OTHER SOIL AMENDMENTS TO BE ADDED TO PRODUCE A SATISFACTORY TOPSOIL.



DECIDUOUS TREE PLANTING

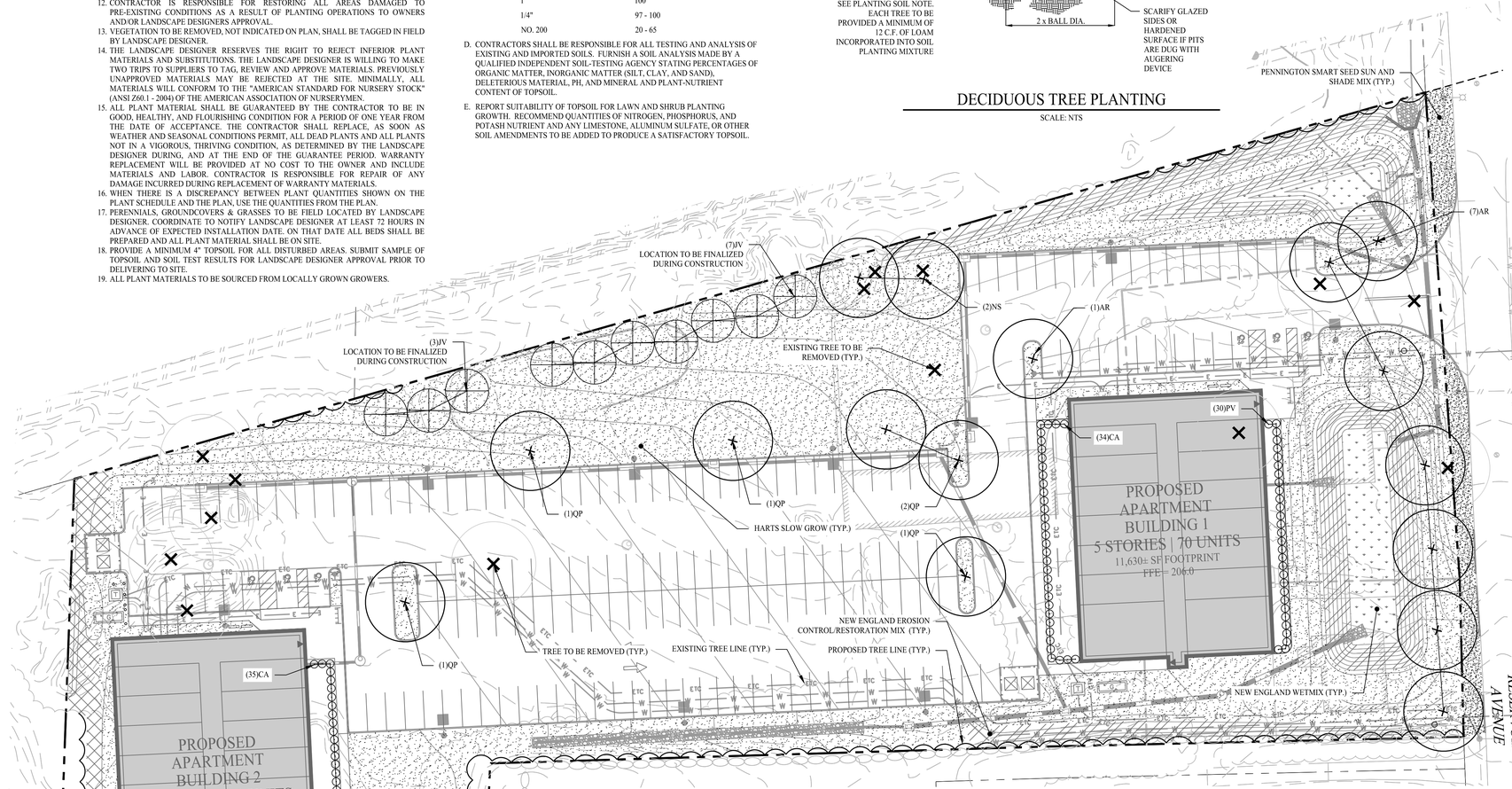
SCALE: NTS



NOTE
1. IN AREAS OF MASS PLANTING, CONTINUOUSLY EXCAVATE AND MULCH ENTIRE BED.
2. VERIFY THAT ALL PLANT PITS ARE FREE DRAINING. NOTIFY LANDSCAPE ARCHITECT IF PITS ARE NOT FREE DRAINING.
3. PRUNE, DEAD, DEFORMED, OR BROKEN BRANCHES.

ORNAMENTAL GRASS PLANTING

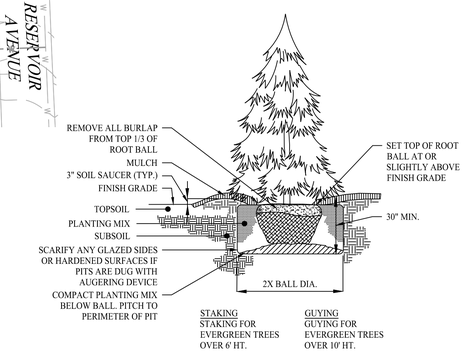
SCALE: NTS



PROPOSED PLANT SCHEDULE

KEY	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
TREES						
AR	8	ACER RUBRUM	RED MAPLE	B&B	3"-3 1/2" CAL	FULL, EXTRA HEAVY
JV	10	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	B&B	6'-7' HT	FULL, EXTRA HEAVY
NS	2	NYSSA SYLVATICA	BLACK TUPELO	B&B	3"-3 1/2" CAL	FULL, EXTRA HEAVY
QP	6	QUERCUS PALUSTRIS	PIN OAK	B&B	3"-3 1/2" CAL	FULL, EXTRA HEAVY
UPLAND SHRUBS / GRASSES / VINES						
CA	69	CALAMAGROTIS X ACUTIFLORA	KARL FOERSTER	CONT	24"-36" HT	FULL, EXTRA HEAVY
PV	30	PANICUM VIRGATUM 'RUBBY RIBBONS'	SWITCH GRASS	CONT	18"-24" HT	FULL, EXTRA HEAVY

SEED MIXES
HARTS (S)LOW GROWSEED MIX
SEED TO LIMIT OF DISTURBANCE & SEE MFG INSTRCUTION FOR RATE
NEW ENGLAND CONSERVATION/ WILDLIFE MIX (NEW ENGLAND WETLAND PLANTS, INC.)
APPLICATION RATE: 1 LB/1,750 S.F.
NEW ENGLAND EROSION CONTROL/RESTORATION MIX (NEW ENGLAND WETLAND PLANTS, INC.)
APPLICATION RATE: 1 LB/2,500 S.F.
NEW ENGLAND WETMIX (NEW ENGLAND WETLAND PLANTS, INC.)
APPLICATION RATE: 1 LB/1,250 S.F.
LAWN: PENNINGTON SMART SEED SUN AND SHADE
APPLICATION RATE NEW LAWNS: 9LB/1,000 S.F



EVERGREEN TREE PLANTING

SCALE: NTS

NOT FOR CONSTRUCTION, FOR PERMITTING PURPOSES ONLY

LEGEND

- PROPERTY LINE
- RIGHT-OF-WAY LINE
- ADJOINING LOT LINE
- EXISTING TREE LINE
- PROPOSED TREE LINE
- OVERSTORY TREE
- EXISTING TREE
- ORNAMENTAL GRASSES/ SHRUBS
- HARTS SLOW GROW SEED MIX
- PENNINGTON SMART SEED SUN AND SHADE MIX
- NEW ENGLAND CONSERVATION/WILDLIFE MIX
- NEW ENGLAND EROSION CONTROL/RESTORATION MIX
- NEW ENGLAND WETMIX
- TREE TO BE REMOVED

GENERAL NOTES

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2. ALL PROPOSED SITE WORK IS TO BE COMPLETED IN ACCORDANCE WITH ALL PERMITS, APPROVALS, AND CONDITIONS OF APPROVALS ISSUED BY LOCAL, STATE, AND/OR FEDERAL REVIEWING AGENCIES.
3. EXISTING BOUNDARY AND TOPOGRAPHY IS BASED ON DRAWING TITLED "PROPERTY SURVEY OF 2135, 2145 & 2155 RESERVOIR AVENUE, TRUMBULL, CONNECITCUT, PREPARED FOR VESSEL TECHNOLOGIES", SCALE 1"=30', DATED JULY 24, 2025, PERFORMED BY ACCURATE LAND SURVEYING, LLC.
4. ALL CONSTRUCTION SHALL COMPLY WITH, TOWN OF TRUMBULL STANDARDS, AND THE CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS IN THE ABOVE REFERENCED INCREASING HIERARCHY. IF SPECIFICATIONS ARE IN CONFLICT, THE MORE STRINGENT SPECIFICATION SHALL APPLY. ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE OSHA, FEDERAL, STATE, AND LOCAL REGULATIONS.
5. INFORMATION ON EXISTING UTILITIES AND STORM DRAINAGE SYSTEMS HAS BEEN COMPILED FROM AVAILABLE INFORMATION INCLUDING UTILITY PROVIDER AND MUNICIPAL RECORD MAPS AND/OR FIELD SURVEY AND IS NOT GUARANTEED CORRECT OR COMPLETE. UTILITIES AND STORM DRAINAGE SYSTEMS ARE SHOWN TO ALERT THE CONTRACTOR TO THEIR PRESENCE AND THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ACTUAL LOCATIONS AND ELEVATIONS OF ALL UTILITIES AND STORM DRAINAGE SYSTEMS INCLUDING SERVICES. PRIOR TO DEMOLITION OR CONSTRUCTION, THE CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" 72 HOURS BEFORE COMMENCEMENT OF WORK AT "(800) 922-4455" AND VERIFY ALL UTILITY AND STORM DRAINAGE SYSTEM LOCATIONS.
6. NO PART OF THE PROJECT PARCEL IS LOCATED WITHIN ANY FEMA DESIGNATED FLOOD HAZARD AREAS.

Rev. #:	Date	Description

Graphic Scale: 30 0 30 60

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MONROE, CT | W. HARTFORD, CT | NORWOOD, MA
SOLLIENGINEERING.COM
T: (203) 880-5455 | F: (203) 880-9695

Drawn By:	MPD
Checked By:	MFB
Approved By:	KMS
Project #:	24116901
Plan Date:	11/07/25
Scale:	1" = 30'

STATE OF CONNECTICUT — MARY F. BLACKBURN — LICENSED LANDSCAPE ARCHITECT

Mary Blackburn, P.L.A.
CT 1499

Project:

PROPOSED REDEVELOPMENT

2135, 2145, & 2155 RESERVOIR AVENUE
TRUMBULL, CONNECTICUT

Sheet Title:	Sheet #:
LANDSCAPE PLAN	2.61

Nov 07, 2025 - 10:46am bdiuk
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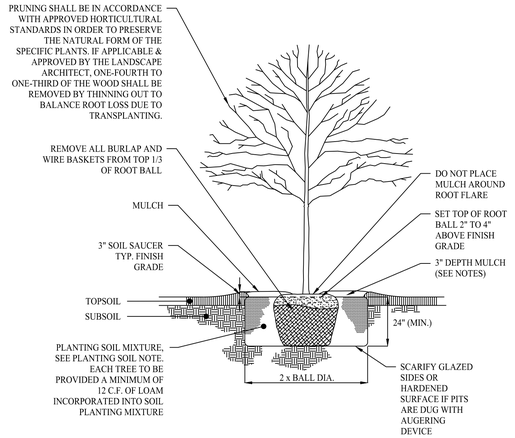
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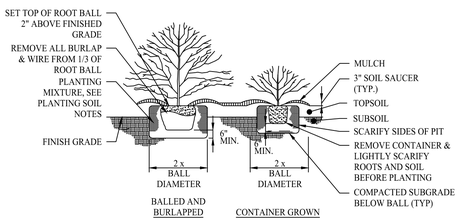
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DECIDUOUS TREE PLANTING

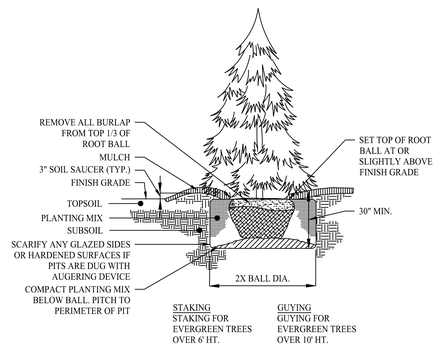
SCALE: NTS



NOTE
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2. VERIFY THAT ALL PLANT PITS ARE FREE DRAINING. NOTIFY LANDSCAPE ARCHITECT IF PITS ARE NOT FREE DRAINING.
3. PRUNE, DEAD, DEFORMED, OR BROKEN BRANCHES.

ORNAMENTAL GRASS PLANTING

SCALE: NTS



STAKING
STAKING FOR EVERGREEN TREES OVER 6' HT.

GUYING
GUYING FOR EVERGREEN TREES OVER 10' HT.

EVERGREEN TREE PLANTING

SCALE: NTS

NOT FOR CONSTRUCTION,
FOR PERMITTING PURPOSES ONLY

Rev. #:	Date	Description

Graphic Scale: 30 0 30 60

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Drawn By:	JJS
Checked By:	MFB
Approved By:	KMS
Project #:	24116901
Plan Date:	11/07/25
Scale:	N/A

STATE OF CONNECTICUT · MARY F. BLACKBURN · REGISTERED LANDSCAPE ARCHITECT

Mary Blackburn, P.L.A.
CT 1499

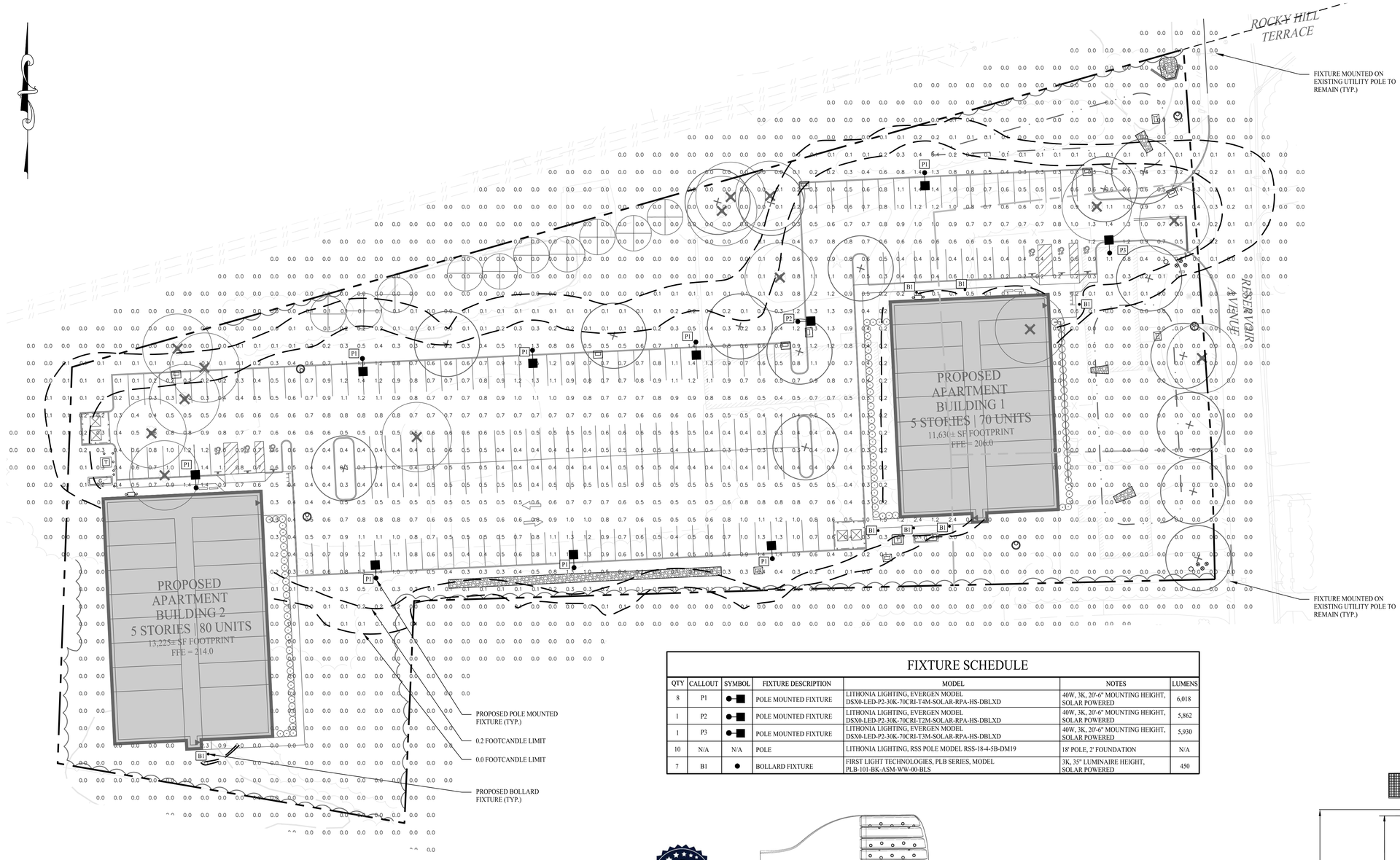
Project:

PROPOSED REDEVELOPMENT

2135, 2145, & 2155 RESERVOIR AVENUE
TRUMBULL, CONNECTICUT

Sheet Title:	Sheet #:
LANDSCAPE DETAILS	2.62

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LEGEND

0.1 0.1 0.1 / 0.1 0.1 0.0 / 0.1 0.0 0.0	PROPOSED FOOTCANDLES
	PROPOSED POLE MOUNTED FIXTURE
	PROPOSED BOLLARD FIXTURE
	LINE OF 0.2 & 0.0 FOOTCANDLES

LIGHTING NOTES

1. ALL LIGHT FIXTURES TO BE MOUNTED AND INSTALLED PER MANUFACTURER SPECIFICATIONS.
2. ALL WORK AND RELATED MATERIALS SHALL COMPLY WITH TOWN, COUNTY, AND OTHER APPLICABLE GOVERNING AUTHORITY REQUIREMENTS.
3. REFER TO LIGHTING SPEC SHEETS FOR ALL OTHER FIXTURE INFORMATION.

FIXTURE SCHEDULE

QTY	CALLOUT	SYMBOL	FIXTURE DESCRIPTION	MODEL	NOTES	LUMENS
8	P1	●■	POLE MOUNTED FIXTURE	LITHONIA LIGHTING, EVERGEN MODEL DSX0-LED-P2-30K-70CRI-T4M-SOLAR-RPA-HS-DBLXD	40W, 3K, 20'-6" MOUNTING HEIGHT, SOLAR POWERED	6,018
1	P2	●■	POLE MOUNTED FIXTURE	LITHONIA LIGHTING, EVERGEN MODEL DSX0-LED-P2-30K-70CRI-T2M-SOLAR-RPA-HS-DBLXD	40W, 3K, 20'-6" MOUNTING HEIGHT, SOLAR POWERED	5,862
1	P3	●■	POLE MOUNTED FIXTURE	LITHONIA LIGHTING, EVERGEN MODEL DSX0-LED-P2-30K-70CRI-T3M-SOLAR-RPA-HS-DBLXD	40W, 3K, 20'-6" MOUNTING HEIGHT, SOLAR POWERED	5,930
10	N/A	N/A	POLE	LITHONIA LIGHTING, RSS POLE MODEL RSS-18-4-5B-DM19	18' POLE, 2' FOUNDATION	N/A
7	B1	●	BOLLARD FIXTURE	FIRST LIGHT TECHNOLOGIES, PLB SERIES, MODEL PLB-101-BK-ASM-WW-00-BLS	3K, 35" LUMINAIRE HEIGHT, SOLAR POWERED	450

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Rev. #: Date Description

Graphic Scale: 30 0 30 60

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Drawn By:	MMH
Checked By:	MFB
Approved By:	KMS
Project #:	24116901
Plan Date:	11/07/25
Scale:	1" = 30'

STATE OF CONNECTICUT · MARY F. BLACKBURN · REGISTERED LANDSCAPE ARCHITECT

Mary Blackburn, P.L.A.
CT 1499

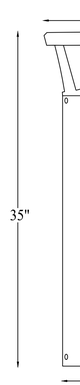
Project:

PROPOSED REDEVELOPMENT

2135, 2145, & 2155 RESERVOIR AVENUE
TRUMBULL, CONNECTICUT

Sheet Title: LIGHTING PLAN

Sheet #: 2.71



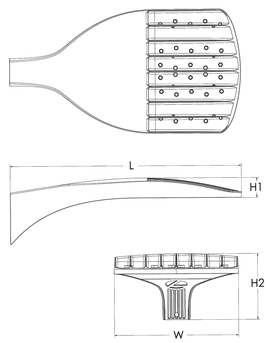
BOLLARD SOLAR LIGHT FIXTURE - B1

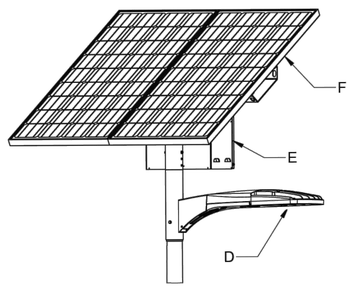
FIRST LIGHT TECHNOLOGIES, PLB SERIES
SCALE: NTS

ida DARK SKY APPROVED

Specifications

EPA:	0.44 ft² (0.04 m²)
Length:	26.18" (66.5 cm)
Width:	14.06" (35.7 cm)
Height H1:	2.26" (5.7 cm)
Height H2:	7.46" (18.9 cm)
Weight:	23 lbs (10.4 kg)

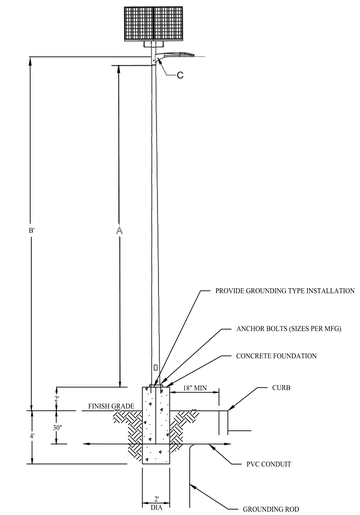




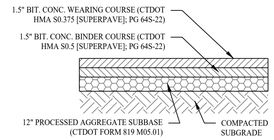
MODEL	A [Pole Length Above Grade]	B [Fixture Mount Height]	C/D [Arm Type]	E [Battery Mount]	F [System EPA]	[System Weight]	POLE Type	POLE Info 1	POLE Info 2
EverGen^M Series	18 FT	20'-6" FROM FINISH GRADE	INTDIRECTA	HIGH	16.0 Ft² (1.49 m²)	246.1LB	Steel Bolt Down	Bolt Length 36 inch	Bolt Circle 11 inch

POLE MOUNTED SOLAR LIGHT FIXTURE - P1, P2 & P3

LITHONIA LIGHTING, D-SERIES SIZE 0
SCALE: NTS

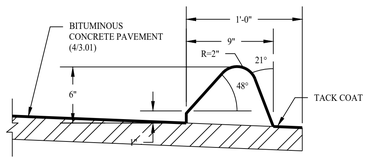


Nov 07, 2025 – 10:47am bdoulk
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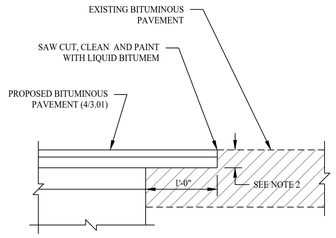
STANDARD DUTY ASPHALT PAVING DETAIL

SCALE: NTS



EXTRUDED BITUMINOUS CONCRETE LIP CURBING DETAIL

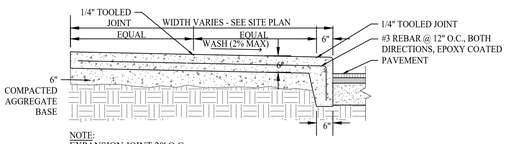
SCALE: NTS



NOTES
1. OVERLAP BOTH PROPOSED BITUMINOUS CONCRETE COURSES (CLASS 1 AND CLASS 2) OVER EXISTING SUBBASE.
2. MINIMUM THICKNESS TO BE SAME AS PROPOSED BITUMINOUS OR MATCH THICKNESS OF EXISTING PAVEMENT, WHICH EVER IS GREATER.

PAVEMENT MATCH TREATMENT (SAWCUT) DETAIL

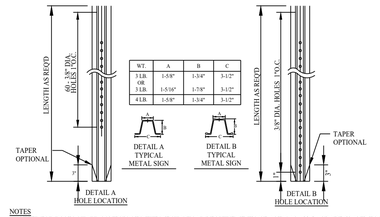
SCALE: NTS



NOTE:
EXPANSION JOINT 20' O.C. MAXIMUM. 1/4" TOOL JOINT 4' O.C. OR AS DIRECTED. CONCRETE TO BE 4,000 P.S.I.

INTEGRAL CONCRETE CURB + SIDEWALK

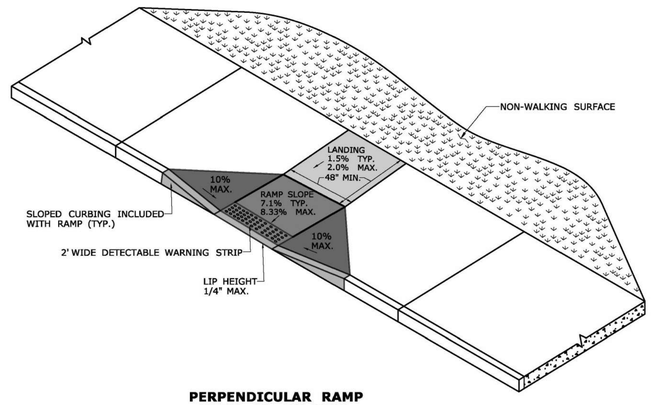
SCALE: NTS



NOTES
1. STEEL FOR POSTS SHALL CONFORM TO THE MECHANICAL REQUIREMENTS OF ASTM AS 499-81 GRADE 60 AND TO THE CHEMICAL REQUIREMENTS OF ASTM AI-76 CARBON STEEL TEE RAIL HAVING NOMINAL WEIGHT OF 91 LBS OR GREATER PER LINEAR YARD.
2. AFTER FABRICATION ALL STEEL POSTS SHALL BE GALVANIZED TO MEET THE REQUIREMENTS OF ASTM A-123.
3. SIGN MOUNTING HEIGHT TO BE APPROVED BY THE ENGINEER.

TYPICAL METAL SIGN POSTS

SCALE: NTS

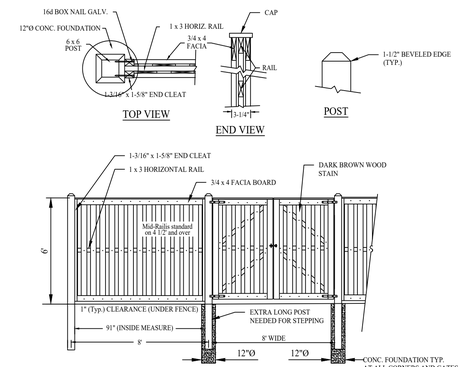


PERPENDICULAR RAMP WITH 48" BY-PASS (TYPE 8)

NOTE: ADA WARNING STRIPS NOT TO BE INSTALLED INTERIOR TO THE SITE.

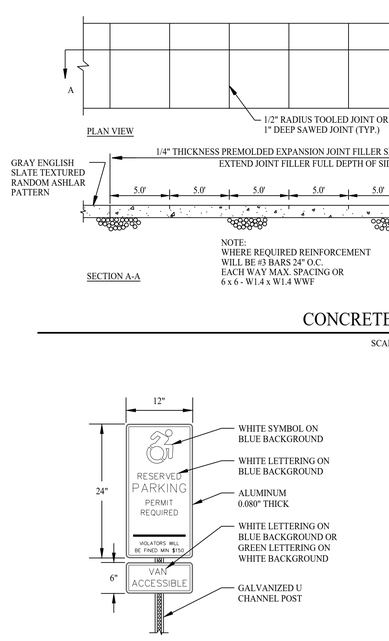
CTDOT ADA STANDARD SIDEWALK DETAILS

SCALE: NTS



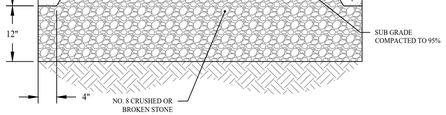
DUMPSTER PAD ENCLOSURE - BOARD ON BOARD FENCE

SCALE: NTS



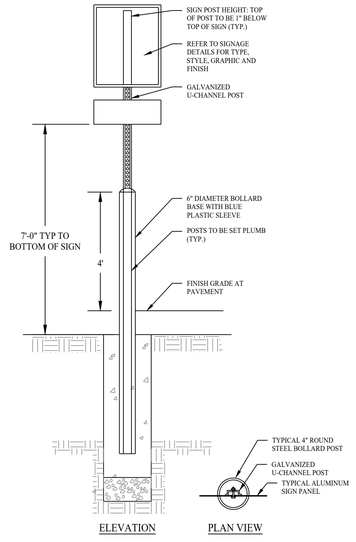
CONCRETE SIDEWALK

SCALE: NTS



CONCRETE PAD DETAIL

SCALE: NTS



SIGN MOUNTING FOR ACCESSIBLE SIGN

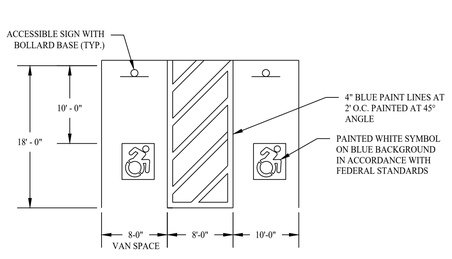
SCALE: NTS

ACCESSIBLE PARKING SIGN

NOTE
SUPPORTS-SEE SIGN MOUNTING FOR ACCESSIBLE SIGN DETAIL.

ACCESSIBLE SIGN DETAILS

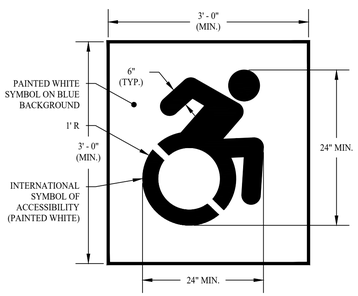
SCALE: NTS



NOTES
1. SEE SITE PLAN FOR ACCESSIBLE SPACE LOCATIONS
2. PROVIDE 2 COATS OF PAINT ON ALL SURFACES.

ACCESSIBLE PARKING SPACE DETAIL

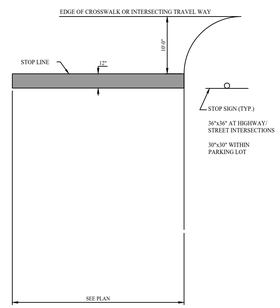
SCALE: NTS



NOTE
LOCATE AT 3' FROM EDGE OF PARKING SPACE UNLESS ACCOMPANIED BY "VAN" LETTERING

ACCESSIBLE PARKING SYMBOL

SCALE: NTS



NOTE:
1. WORDS AND LINES SHALL BE APPLIED IN ACCORDANCE WITH SECTIONS 3B.16 AND 3B.20 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS
2. THESE WORDS AND BAR ARE TO BE PAINTED RETROREFLECTIVE WHITE.

STOP SIGNAGE AND MARKING

SCALE: NTS

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Checked By:	LAM
Approved By:	KMS
Project #:	24116901
Plan Date:	11/07/25
Scale:	AS NOTED

STATE OF CONNECTICUT — KEVIN M. SOLLI — LICENSED — 25759 — PROFESSIONAL ENGINEER
Kevin Solli, P.E.
CT 25759

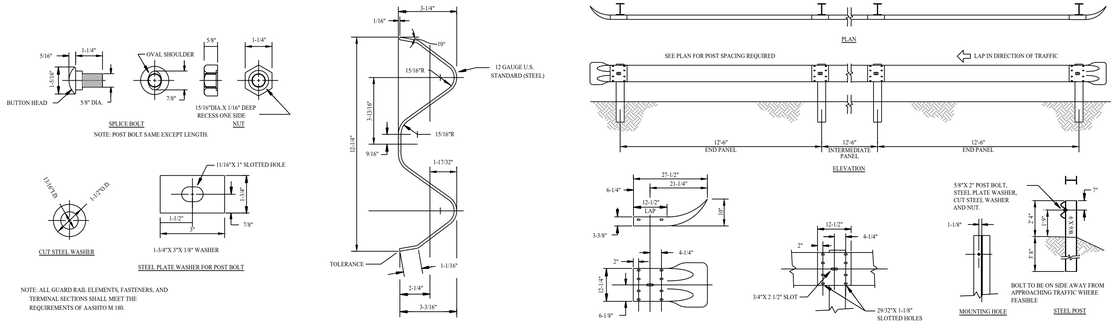
Project:

PROPOSED REDEVELOPMENT

2135, 2145, & 2155 RESERVOIR AVENUE
TRUMBULL, CONNECTICUT

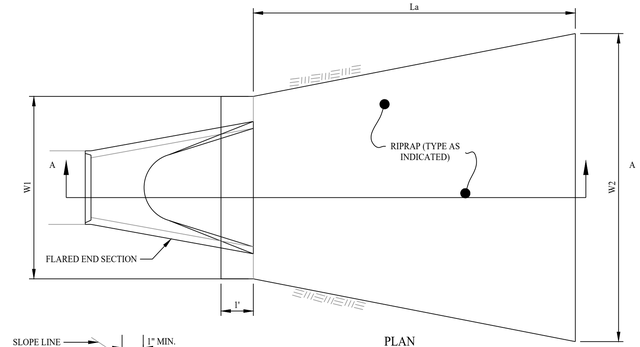
Sheet Title:	Sheet #:
DETAIL SHEET	3.01

Nov 06, 2025 – 4:19pm omopoulos
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GUIDE RAIL DETAIL

SCALE: NTS



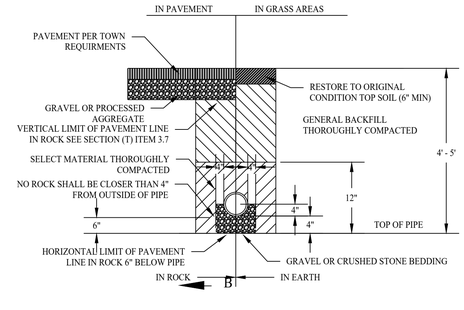
SECTION A-A

OUTLET	La	W1	W2	RIPRAP
O-1	12'	4'	6'	MODIFIED
O-2	10'	3'	5'	MODIFIED
O-3	12'	4'	6'	MODIFIED

RIPRAP TYPE	"T" (INCHES)
MODIFIED	12
INTERMEDIATE	18
STANDARD	36

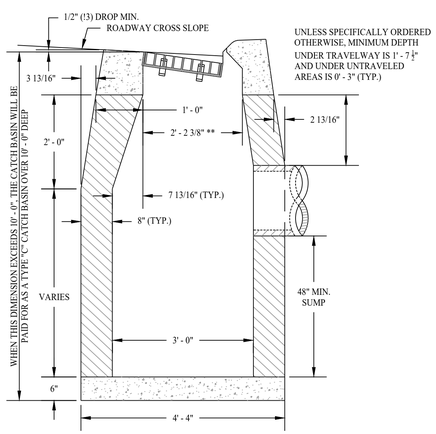
TYPE 'A' RIPRAP APRON

SCALE: NTS



STORM TRENCH DETAIL

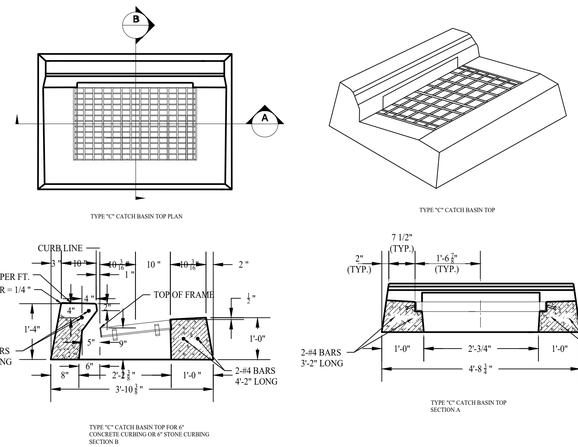
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SECTION B

TYPE "C" CATCH BASIN DETAIL

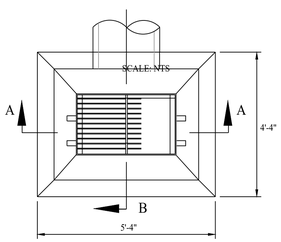
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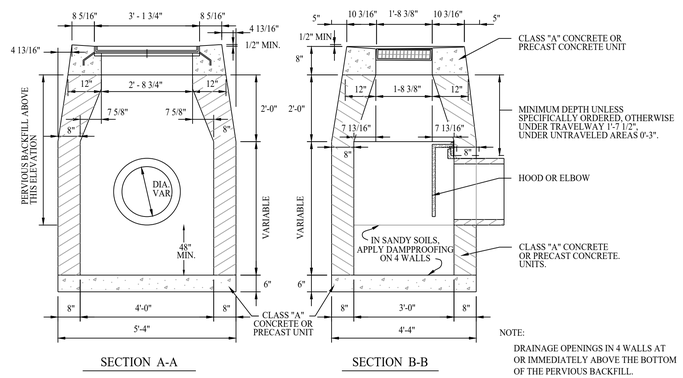


STANDARD PRECAST CT DOT TYPE "C" CATCH BASIN TOP

SCALE: NTS

DETAIL PROVIDED BY CONNECTICUT DOT

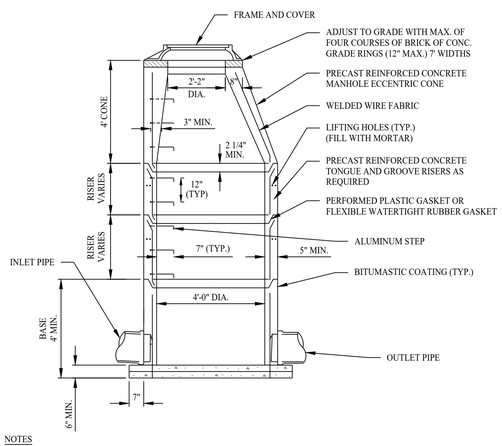




NOTE:
DRAINAGE OPENINGS IN 4 WALLS AT OR IMMEDIATELY ABOVE THE BOTTOM OF THE PERVIOUS BACKFILL.

TYPE "C-L" CATCH BASIN

SCALE: NTS

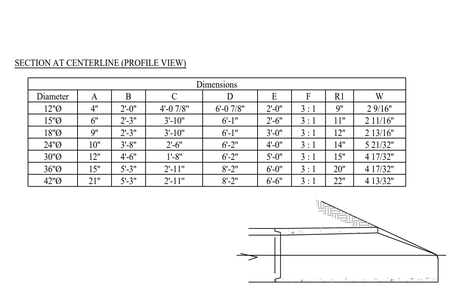


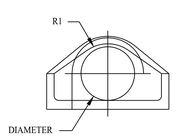
NOTES
1. 5' OR 6' DIA. PRECAST BASES MAY BE USED WHEN REQUIRED DUE TO SIZE OR NUMBER OF PIPES AT THE MANHOLE. PRECAST REDUCERS WILL BE PLACED ABOVE THE 5' & 6' BASES AS DIRECTED BY THE ENGINEER.
2. WALL THICKNESS TO INCREASE 1" FOR EACH 1' OF INSIDE DIAMETER INCREASE.
3. WHEN INLET SEWER INVERT TO OUTLET SEWER INVERT ELEVATION EXCEEDS 24" USE DROP CONNECTION.

PRECAST STORM MANHOLE

SECTION AT CENTERLINE (PROFILE VIEW)

Dimensions								
Diameter	A	B	C	D	E	F	R1	W
12"Ø	4"	2'-0"	4'-0 7/8"	6'-0 7/8"	2'-0"	3 : 1	9"	2 9/16"
15"Ø	6"	2'-3"	3'-10"	6'-1"	2'-6"	3 : 1	11"	2 11/16"
18"Ø	9"	2'-3"	3'-10"	6'-1"	3'-0"	3 : 1	12"	2 13/16"
24"Ø	10"	3'-8"	2'-6"	6'-2"	4'-0"	3 : 1	14"	5 21/32"
30"Ø	12"	4'-6"	1'-8"	6'-2"	5'-0"	3 : 1	15"	4 17/32"
36"Ø	15"	5'-3"	2'-11"	8'-2"	6'-0"	3 : 1	20"	4 17/32"
42"Ø	21"	5'-3"	2'-11"	8'-2"	6'-6"	3 : 1	22"	4 13/32"





END VIEW

TULSA PIPE
3200 NORTH 129TH EAST AVENUE
TULSA, OKLAHOMA 74116
P.O. BOX 581524
TULSA, OKLAHOMA 74158-1524
(918) 438-0230

CR 170
35
ISSUED 12/93

FLARED END SECTION DETAILS

SCALE: NTS

DETAIL PER ADVANCED DRAINAGE SYSTEMS, INC.

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Drawn By:	DJR
Checked By:	LAM
Approved By:	KMS
Project #:	24116901
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Scale:	AS NOTED

STATE OF CONNECTICUT KEVIN M. SOLLI 25759 LICENSED PROFESSIONAL ENGINEER
Kevin Solli, P.E.
CT 25759

Project:

PROPOSED REDEVELOPMENT

2135, 2145, & 2155 RESERVOIR AVENUE
TRUMBULL, CONNECTICUT

Sheet Title:	Sheet #:
DETAIL SHEET	3.02

Nov 06, 2025 - 4:19pm omogoulos
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LEGEND

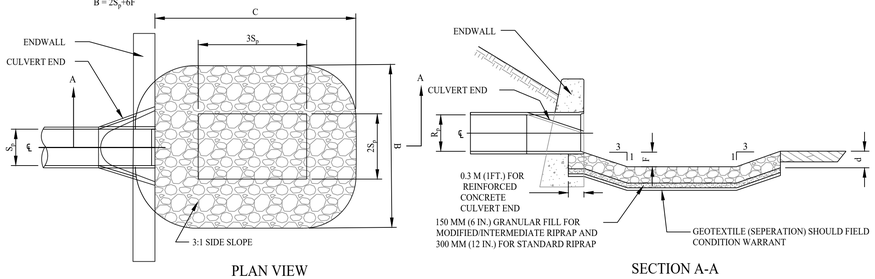
S_p = MAX INSIDE PIPE SPAN (NON-CIRCULAR SECTIONS) INSIDE PIPE DIAMETER

R_p = MAX INSIDE PIPE RISE (NON-CIRCULAR SECTIONS) INSIDE PIPE DIAMETER (CIRCULAR SECTIONS)

d = 300 MM (12 IN.) MODIFIED RIPRAP
450 MM (18 IN.) INTERMEDIATE RIPRAP
900 MM (36 IN.) STANDARD RIPRAP

Type 1 F = 0.5 R_p
Type 2 F = R_p
C = 3S_p+6F
B = 2S_p+6F

OUTLET I.D.	APRON TYPE	Sp. Rp [IN]	B [FT]	C [FT]	F [FT]	d [FT]	RIPRAP
O-1	1	24	10	12'	1'	12	MODIFIED

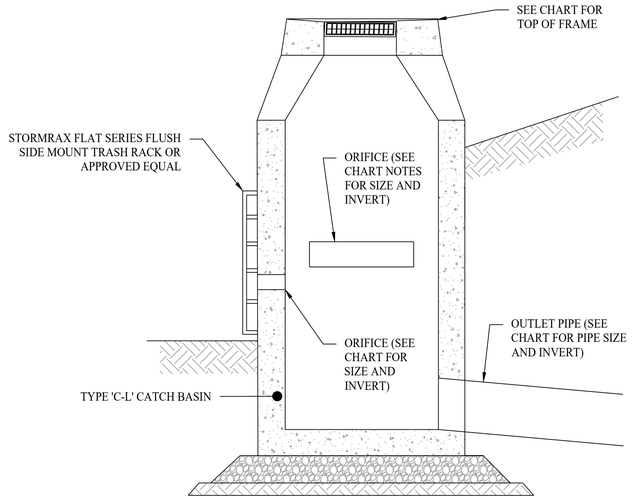


PLAN VIEW

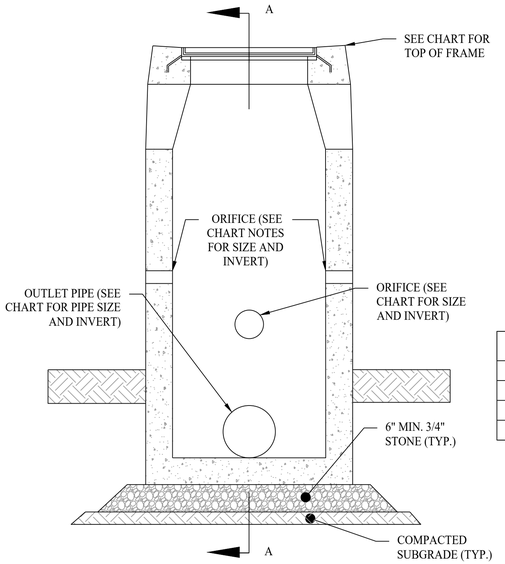
SECTION A-A

PREFORMED SCOUR HOLE

SCALE: NTS



SECTION A - A

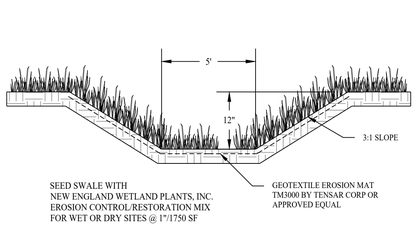


ELEVATION

OUTLET I.D.	ORIFICE SIZE (IN.)	ORIFICE ELEV. (FT.)	TOP OF FRAME ELEV. (FT.)	OUTLET SIZE (IN.)	OUTLET ELEV. (FT.)
OCS-1	15"Ø (x2)	202.6	206.0	24	200.0
	30"Lx9"H (x2)	204.5			
OCS-2	6"Ø	200.6	203.0	12	199.9
	6"Ø (x2)	201.5			

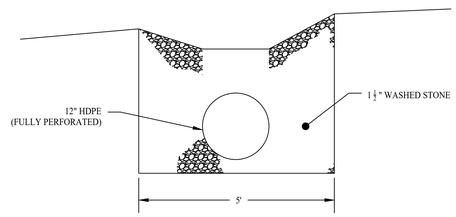
OUTLET CONTROL STRUCTURE

SCALE: NTS



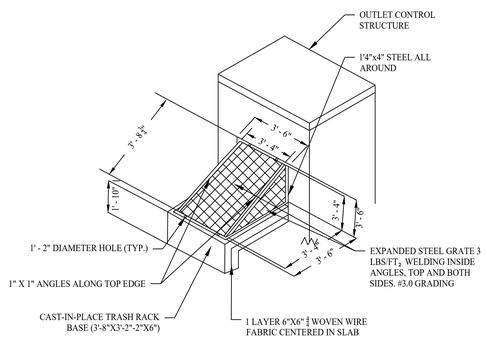
GRASS DRAINAGE SWALE DETAIL

SCALE: NTS



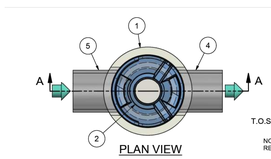
FRENCH DRAIN TRENCH SECTION

SCALE: NTS



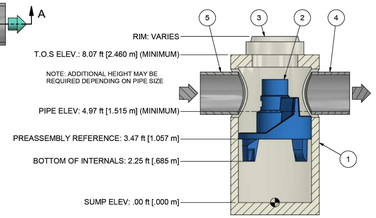
PRIMARY OUTLET TRASH RACK DETAIL

SCALE: NTS



PLAN VIEW

HYDRO FRAME AND COVER (INCLUDED)
GRADE RINGS BY OTHERS AS REQUIRED



SECTION A-A

1. MANHOLE WALL AND SLAB THICKNESSES ARE NOT TO SCALE.

2. CONTACT HYDRO INTERNATIONAL FOR A BOTTOM OF STRUCTURE ELEVATION PRIOR TO SETTING FIRST DEFENSE MANHOLE.

3. CONTRACTOR TO CONFIRM RIM, PIPE INVERTS, PIPE DIA. AND PIPE ORIENTATION PRIOR TO RELEASE OF UNIT TO FABRICATION.

PROJECTION

IF IN DOUBT ASK

DATE:	SCALE:
11/2/2021	1:30
DRAWN BY: ER	CHECKED BY: MRJ
APPROVED BY:	

TITLE:
4-ft DIAMETER
FIRST DEFENSE

GENERAL ARRANGEMENT

Hydro International
hydro-int.com
HYDRO INTERNATIONAL

WEIGHT:	MATERIAL:
STOCK NUMBER:	
DRAWING NO.: FD GA-4	
SHEET SIZE: B	SHEET: 1 OF 1

PRODUCT SPECIFICATION:

1. Peak Hydraulic Flow: 18.0 cfs (510 l/s)
2. Min Sediment Storage Capacity: 0.7 cu. yd. (0.5 cu. m.)
3. Maximum Inlet/Outlet Pipe Diameters: 24 in. (600 mm)
4. The Treatment System Shall Use An Induced Vortex To Separate Pollutants From Stormwater Runoff.
5. For More Product Information Including Regulatory Acceptances, Please Visit https://hydro-int.com/en/products/first-defense

GENERAL NOTES:
1. General Arrangement drawings only. Contact Hydro International for site specific drawings.
2. The diameter of the inlet and outlet pipes may be no more than 24".
3. Multiple inlet pipes possible (refer to project plan).
4. Inlet/outlet pipe angle can vary to align with drainage network (refer to project plans).
5. Peak flow rate and minimum height limited by available cover and pipe diameter.
6. Larger sediment storage capacity may be provided with a deeper sump depth.

PARTS LIST

ITEM	QTY	SIZE (in)	SIZE (mm)	DESCRIPTION
1	1	48	1200	I.D. PRECAST MANHOLE
2	1			INTERNAL COMPONENTS (PRE-INSTALLED)
3	1	30	750	FRAME AND COVER (ROUND)
4	1	24 (MAX)	600 (MAX)	OUTLET PIPE (BY OTHERS)
5	1	24 (MAX)	600 (MAX)	INLET PIPE (BY OTHERS)

FIRST DEFENSE FDHC-4 HYDRODYNAMIC SEPARATOR

SCALE: NTS

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Rev. #:	Date	Description

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MONROE, CT | W. HARTFORD, CT | NORWOOD, MA
SOLLIENGINEERING.COM
T: (203) 880-5455 | F: (203) 880-9695

Drawn By:	DJR
Checked By:	LAM
Approved By:	KMS
Project #:	24116901
Plan Date:	11/07/25
Scale:	AS NOTED

STATE OF CONNECTICUT · KEVIN M. SOLLI · 25759 · LICENSED PROFESSIONAL ENGINEER

Kevin Solli, P.E.
CT 25759

Project:

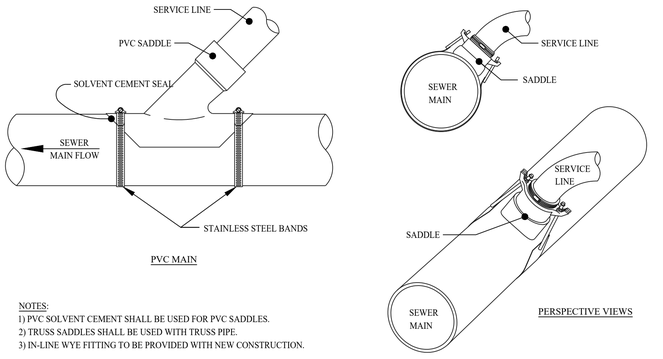
PROPOSED REDEVELOPMENT

2135, 2145, & 2155 RESERVOIR AVENUE
TRUMBULL, CONNECTICUT

Sheet Title: DETAIL SHEET

Sheet #: 3.03

Nov 06, 2025 – 4:19pm omopoulos
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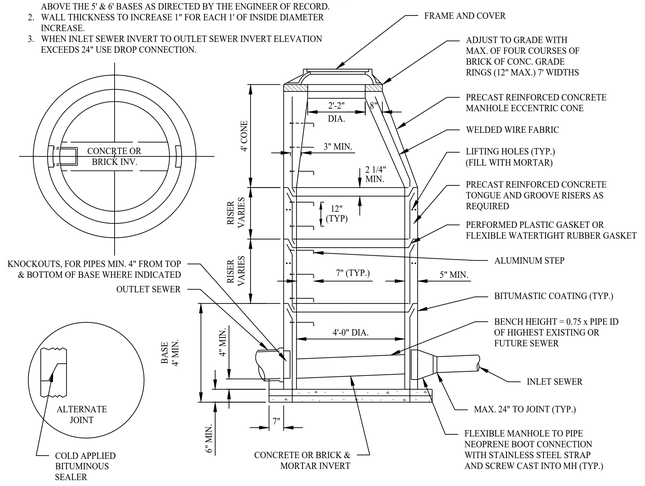


NOTES:
1) PVC SOLVENT CEMENT SHALL BE USED FOR PVC SADDLES.
2) TRUSS SADDLES SHALL BE USED WITH TRUSS PIPE.
3) IN-LINE WYE FITTING TO BE PROVIDED WITH NEW CONSTRUCTION.

SADDLE CONNECTION

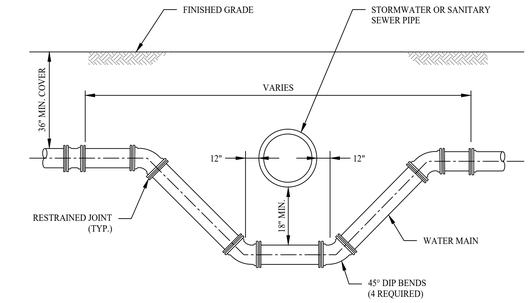
SCALE: NTS

NOTES
1. 5' OR 6' DIA. PRECAST BASES MAY BE USED WHEN REQUIRED DUE TO SIZE OR NUMBER OF PIPES AT THE MANHOLE. PRECAST REDUCERS WILL BE PLACED ABOVE THE 5' & 6' BASES AS DIRECTED BY THE ENGINEER OF RECORD.
2. WALL THICKNESS TO INCREASE 1" FOR EACH 1' OF INSIDE DIAMETER INCREASE.
3. WHEN INLET SEWER INVERT TO OUTLET SEWER INVERT ELEVATION EXCEEDS 24" USE DROP CONNECTION.



PRECAST SANITARY MANHOLE

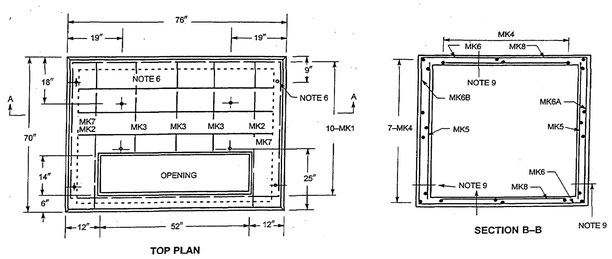
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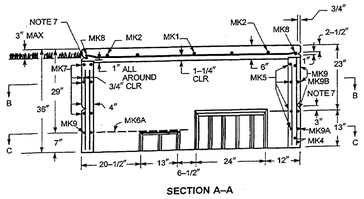


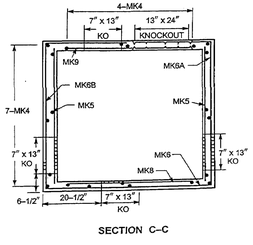
NOTES
1. LENGTH OF SECTION BASED ON MINIMUM LENGTH AS DETERMINED BY DIPRA RESTRAINED JOIN MANUAL
2. INSTALL RESTRAINED JOINTS, AS REQUIRED, FROM DEFLECTION POINT IN BOTH DIRECTIONS.
3. CONCRETE ENCASEMENT OF SANITARY SEWER IS AN ALTERNATIVE METHOD OF ADDRESSING A CONFLICT WHEN UNABLE TO MAINTAIN 18" VERTICAL SEPARATION DISTANCE. IN SUCH INSTANCES, THE MINIMUM PIPE VERTICAL SEPARATION SHALL BE 12".

WATER MAIN CROSSING DETAIL

SCALE: NTS

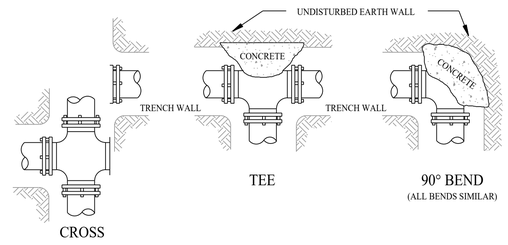






PAD - PRECAST CONCRETE - THREE-PHASE TRANSFORMER

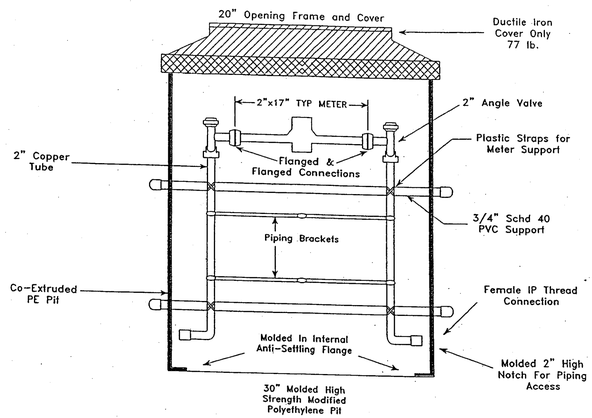
SCALE: NTS



NOTES:
1. DO NOT COVER BELLS OR FLANGES WITH CONCRETE
2. WRAP ALL FITTINGS WITH VISQUEEN.
3. BACK ALL TEES ACCORDING TO SIZE OF BRANCH.
4. BACKING FUTURE LINE EXTENSIONS SHALL BE SUCH THAT LATER REMOVAL IS POSSIBLE.
5. ALL BENDS WHERE FITTINGS ARE USED, BOTH HORIZONTAL OR VERTICAL SHALL BE BACKED.
6. ALL CONCRETE SHALL BE 2500 P.S.I.
7. 18" AND LARGER REQUIRES SPECIFIC ANTI-THRUST DESIGN.
8. MECHANICALLY FASTENED JOINTS ARE AN ACCEPTABLE ALTERNATIVE.

HORIZONTAL THRUST BLOCKING DETAIL

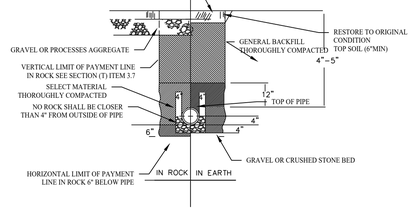
SCALE: NTS



STANDARD METER PIT INSTALLATION FOR 2" METER

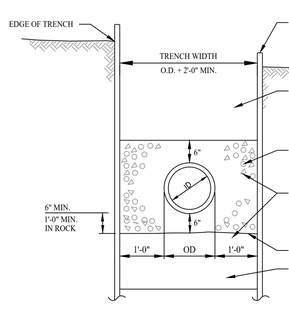
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EXAMPLE DETAIL PROVIDED BY AQUARION WATER COMPANY



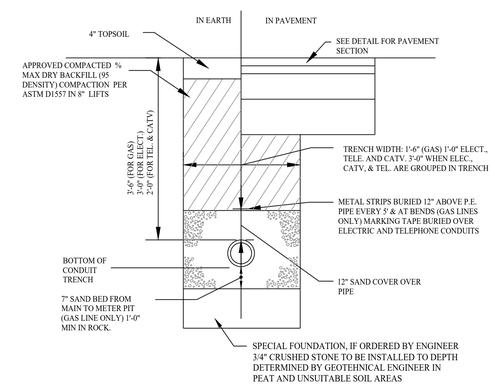
TYPICAL WATER TRENCH DETAIL

SCALE: NTS



TYPICAL SANITARY SEWER TRENCH SECTION

SCALE: NTS



TYPICAL ELECTRICAL/TELEPHONE/CABLE AND GAS TRENCH

SCALE: NTS

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Drawn By:	DJR
Checked By:	LAM
Approved By:	KMS
Project #:	24116901
Plan Date:	11/07/25
Scale:	AS NOTED

STATE OF CONNECTICUT — KEVIN M. SOLLI — LICENSED PROFESSIONAL ENGINEER — 25759
Kevin Solli, P.E.
CT 25759

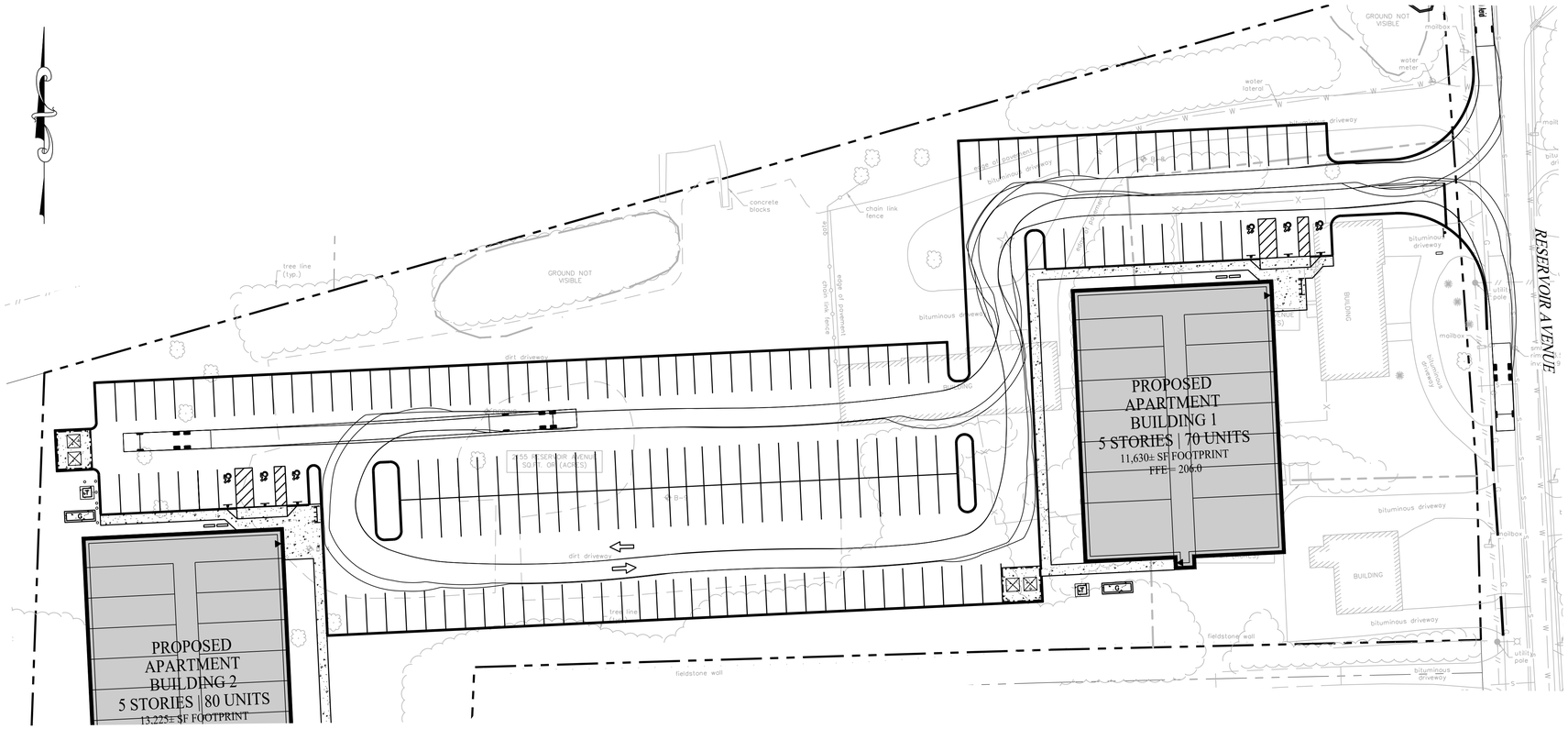
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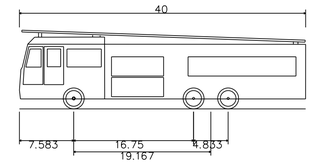
PROPOSED REDEVELOPMENT

2135, 2145, & 2155 RESERVOIR AVENUE
TRUMBULL, CONNECTICUT

Sheet Title:	Sheet #:
DETAIL SHEET	3.04

Nov 06, 2025 – 4:19pm omogoulos
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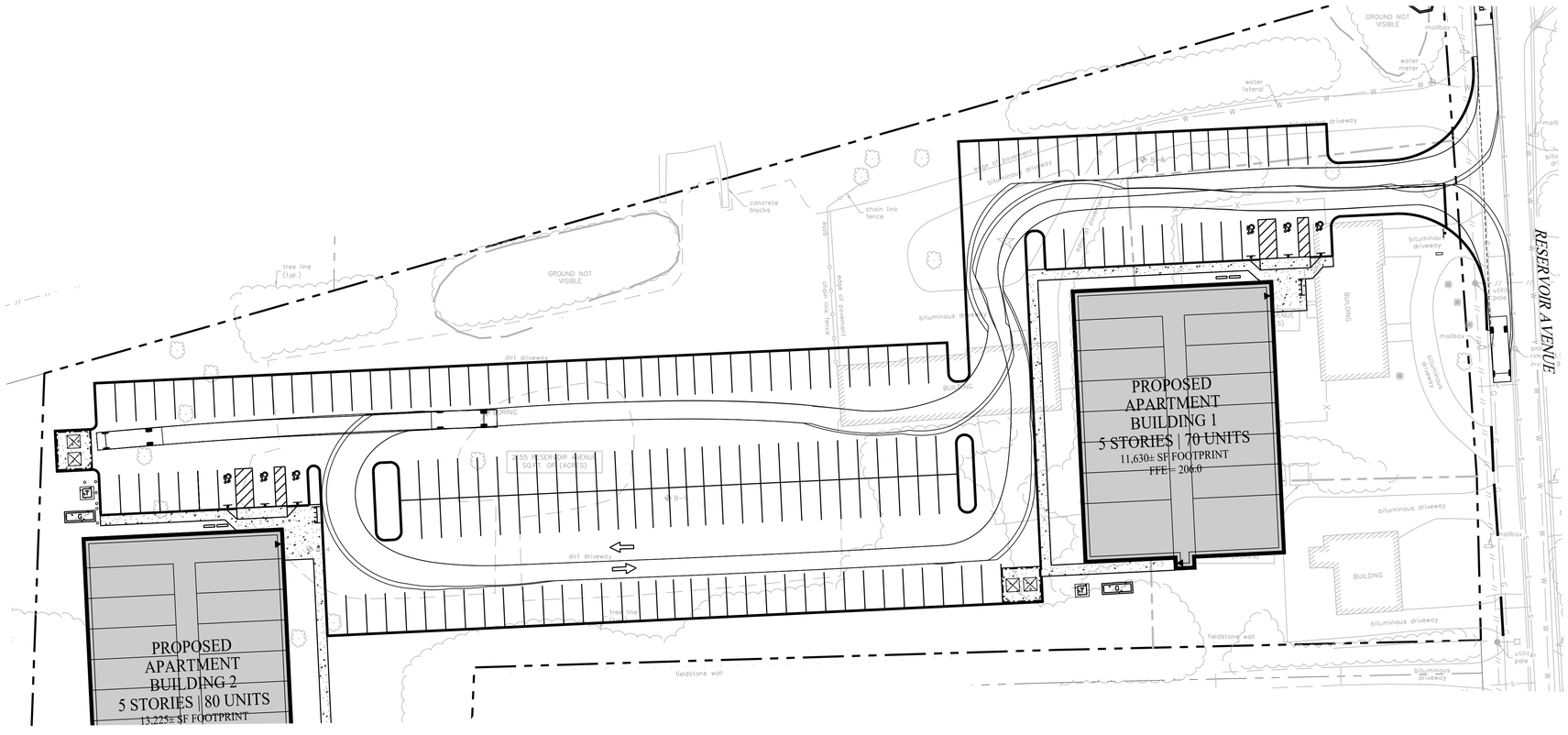


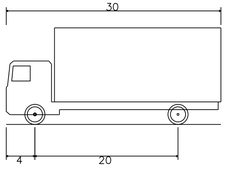


E-ONE HP100 Aerial	
Overall Length	40.000ft
Overall Width	8.333ft
Overall Body Height	11.000ft
Min Body Ground Clearance	1.393ft
Track Width	8.333ft
Lock-to-lock time	6.00s
Max Wheel Angle	45.00°

FIRE APPARATUS

SCALE: NTS





SU-30 – Single Unit Truck	
Overall Length	30.000ft
Overall Width	8.000ft
Overall Body Height	13.500ft
Min Body Ground Clearance	1.367ft
Track Width	8.000ft
Lock-to-lock time	5.00s
Max Steering Angle (Virtual)	31.80°

SU-30

SCALE: NTS

Rev. #:	Date	Description

Graphic Scale: 30 0 30 60

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Drawn By:	ARM
Checked By:	LAM
Approved By:	KMS
Project #:	24116901
Plan Date:	11/07/25
Scale:	1" = 30'

STATE OF CONNECTICUT · KEVIN M. SOLLI · 28176 · REGISTERED PROFESSIONAL ENGINEER

Kevin Solli, P.E.
CT 25759

Project:

PROPOSED REDEVELOPMENT

2135, 2145, & 2155 RESERVOIR AVENUE
TRUMBULL, CONNECTICUT

Sheet Title: TRUCK TURNING FIGURE

Sheet #: TT-1

Nov 06, 2025 - 4:19pm amagoulas
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DRAWING LIST - BUILDING 1	
DRW#	DRAWING NAME
A-000.00	COVER SHEET
A-101.00	FIRST FLOOR PLAN
A-102.00	TYPICAL FLOOR PLAN (2-5 FLOORS)
A-103.00	ROOF PLAN
A-201.00	EAST ELEVATION
A-202.00	WEST ELEVATION
A-203.00	NORTH ELEVATION
A-204.00	SOUTH ELEVATION
A-301.00	BUILDING SECTION 1
A-302.00	BUILDING SECTION 2

DRAWING LIST - BUILDING 2	
DRW#	DRAWING NAME
A-000.00	COVER SHEET
A-101.00	FIRST FLOOR PLAN
A-102.00	TYPICAL FLOOR PLAN (2-5 FLOORS)
A-103.00	ROOF PLAN
A-201.00	EAST ELEVATION
A-202.00	WEST ELEVATION
A-203.00	NORTH ELEVATION
A-204.00	SOUTH ELEVATION
A-301.00	BUILDING SECTION 1
A-302.00	BUILDING SECTION 2

TOTAL UNITS AREA CALCULATION - BUILDING 1				
FLOORS	UNIT TYPE	AREA	COUNT PER FLOOR	TOTAL AREA
FIRST FLOOR	1BD UNIT	575 SF	12	6900 SF
	2BD UNIT	1055 SF	00	0000 SF
	2BD UNIT	1150 SF	02	2300 SF
			14	9200 SF
TYPICAL FLOOR	1BD UNIT	575 SF	11	6325 SF
	2BD UNIT	1055 SF	01	1055 SF
	2BD UNIT	1150 SF	02	2300 SF
			14	9680 SF

FIRST FLOOR TOTAL	14	9200 SF
TYPICAL FLOOR TOTAL	56	38720 SF
TOTAL UNITS (5 STORY)	70	47920 SF

BUILDING 1 TOTAL UNITS	70	47920 SF
BUILDING 2 TOTAL UNITS	80	53670 SF
TOTAL UNITS	150	101590 SF

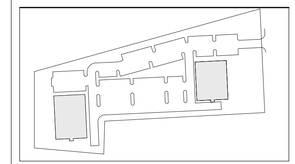
TOTAL UNITS AREA CALCULATION - BUILDING 2				
FLOORS	UNIT TYPE	AREA	COUNT PER FLOOR	TOTAL AREA
FIRST FLOOR	1BD UNIT	575 SF	14	8050 SF
	2BD UNIT	1055 SF	00	0000 SF
	2BD UNIT	1150 SF	02	2300 SF
			16	10350 SF
TYPICAL FLOOR	1BD UNIT	575 SF	13	7475 SF
	2BD UNIT	1055 SF	01	1055 SF
	2BD UNIT	1150 SF	02	2300 SF
			16	10830 SF

FIRST FLOOR TOTAL	16	10350 SF
TYPICAL FLOOR TOTAL	64	43320 SF
TOTAL UNITS (5 STORY)	80	53670 SF

Vessel

OWNER
VESSEL RE Holdings, LLC
46 W 55TH ST
NEW YORK, NY 10019
TEL: 212.413.0850

ARCHITECT OF RECORD
MILTON GREGORY GREW, AIA, ARCHITECT
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WOODBURY, CT 06798
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mggrew@grewdesign.com



2135,2145, & 2155
RESERVOIR AVENUE
TRUMBULL, CT

SITE DIAGRAM

PROGRESS SET, 11/07/2025

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1	ISSUED FOR P&Z	11/07/2025

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PROJECT

2135,2145, & 2155
RESERVOIR AVENUE
TRUMBULL, CT

DRAWING TITLE

BUILDING 1
COVER SHEET

SEAL & SIGNATURE

STATE OF CONNECTICUT · MILTON GREGORY GREW · NO. 4145 · REGISTERED ARCHITECT

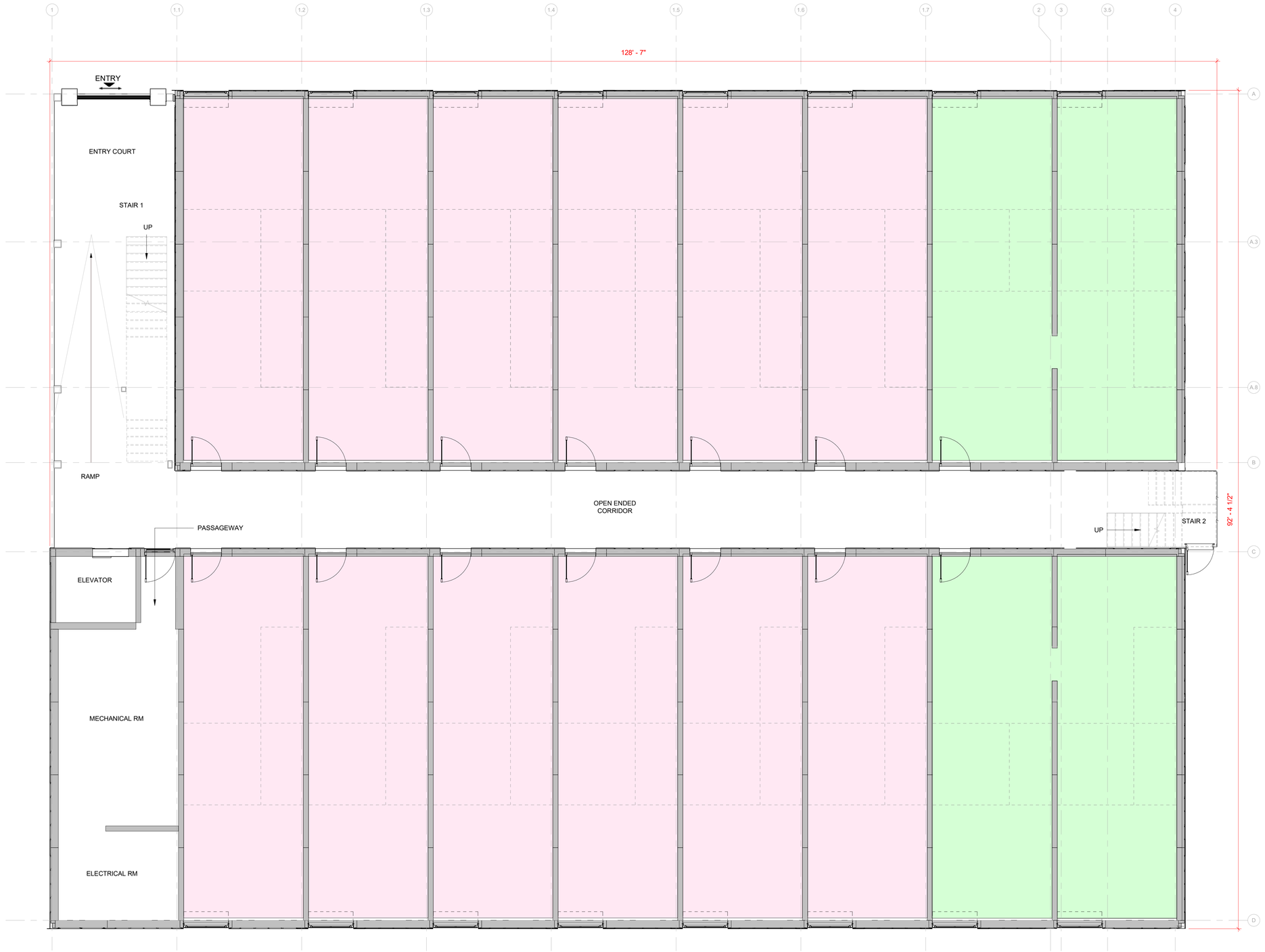
Milton Gregory Grew

DATE	11/07/2025
PROJECT NO.	00
DRAWN BY	DG
CHECKED BY	GG
DOB NO.	

DRAWING NUMBER

A-000.00

11/7/2025 3:53:37 PM



1 FIRST FLOOR PLAN
3/16" = 1'-0"

1 4 8 12 16 20 24 28 32
0 2 6 10 14 18 22 26 30

FIRST FLOOR UNITS AREA CALCULATION			
UNIT TYPE	AREA	COUNT FIRST FLOOR	TOTAL AREA
1BD UNIT	575 SF	12	6900 SF
2BD UNIT	1055 SF	00	0000 SF
2BD UNIT	1150 SF	02	2300 SF
TOTAL		14	9200 SF

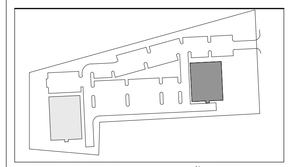
1 BR UNIT

2 BR UNIT

Vessel

OWNER
VESSEL RE Holdings, LLC
46 W 55TH ST
NEW YORK, NY 10019
TEL: 212.413.0850

ARCHITECT OF RECORD
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2135,2145, & 2155
RESERVOIR AVENUE
TRUMBULL, CT

N SITE DIAGRAM

PROGRESS SET, 11/07/2025

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PROJECT
2135,2145, & 2155
RESERVOIR AVENUE
TRUMBULL, CT

DRAWING TITLE
BUILDING 1
FIRST FLOOR PLAN

SEAL & SIGNATURE

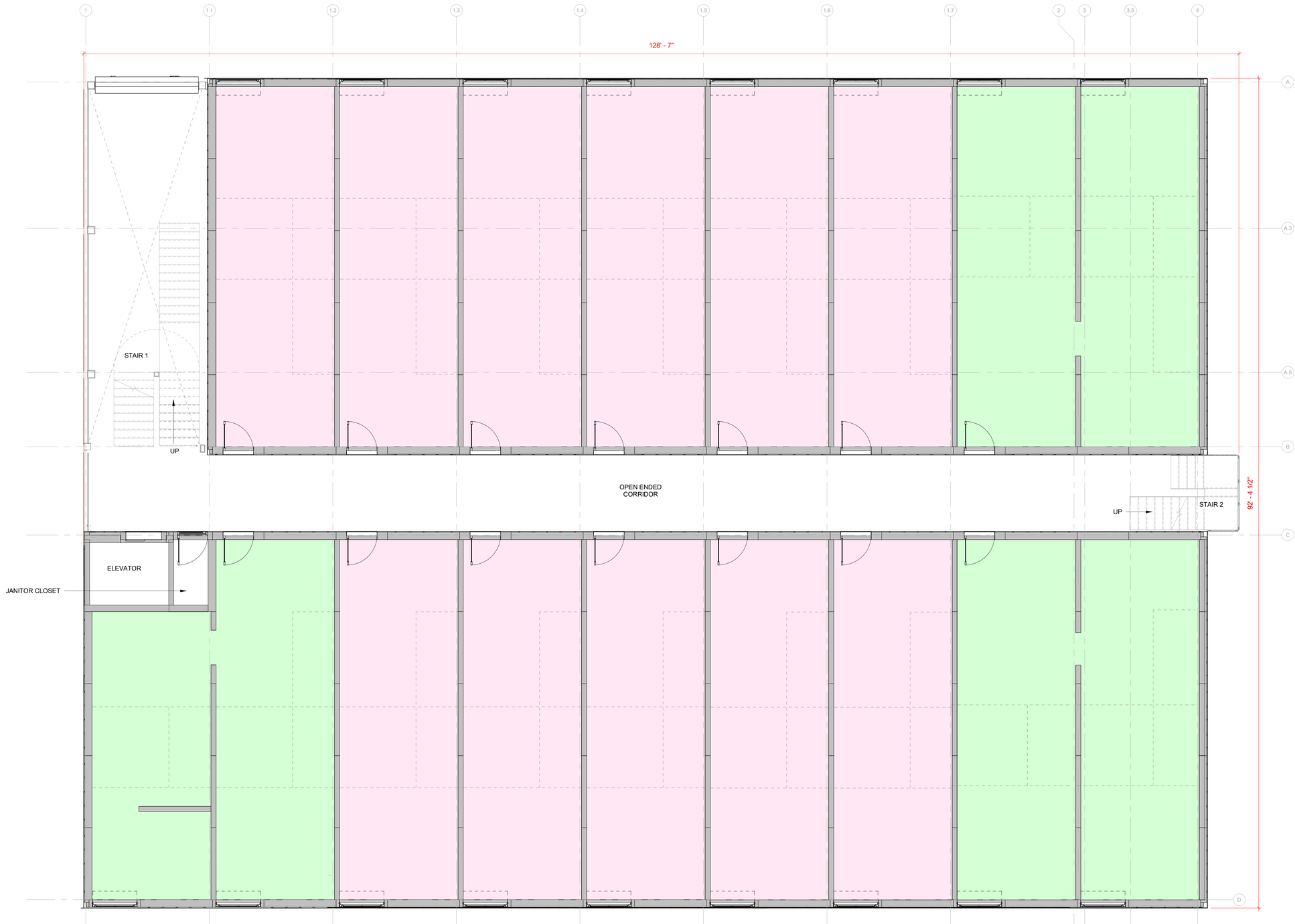
STATE OF CONNECTICUT · MILTON GREGORY GREW · NO. 4150 · LICENSED ARCHITECT

Milton Gregory Grew

DATE	11/07/2025
PROJECT NO.	00
DRAWN BY	DG
CHECKED BY	GG
DOB NO.	

DRAWING NUMBER
A-101.00

11/7/2025 3:53:38 PM



1 TYPICAL FLOOR PLAN
3/16" = 1'-0"

1 4 8 12 16 20 24 28 32
0 2 6 10 14 18 22 26 30

TYPICAL FLOOR UNITS AREA CALCULATION			
UNIT TYPE	AREA	COUNT TYP FLOOR	TOTAL AREA
1BD UNIT	575 SF	11	6325 SF
2BD UNIT	1055 SF	01	1055 SF
2BD UNIT	1150 SF	02	2300 SF
TOTAL		14	9680 SF

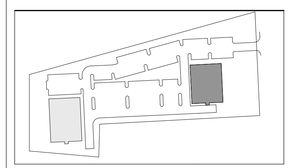
1 BR UNIT

2 BR UNIT

Vessel

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mggrew@grewdesign.com



2135,2145, & 2155
RESERVOIR AVENUE
TRUMBULL, CT

N SITE DIAGRAM

PROGRESS SET, 11/07/2025

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ISSUE NO.	DESCRIPTION	ISSUE DATE
1	ISSUED FOR P&Z	11.07.2025

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PROJECT
2135,2145, & 2155
RESERVOIR AVENUE
TRUMBULL, CT

DRAWING TITLE
BUILDING 1
TYPICAL FLOOR PLAN
(2-5 FLOORS)

SEAL & SIGNATURE

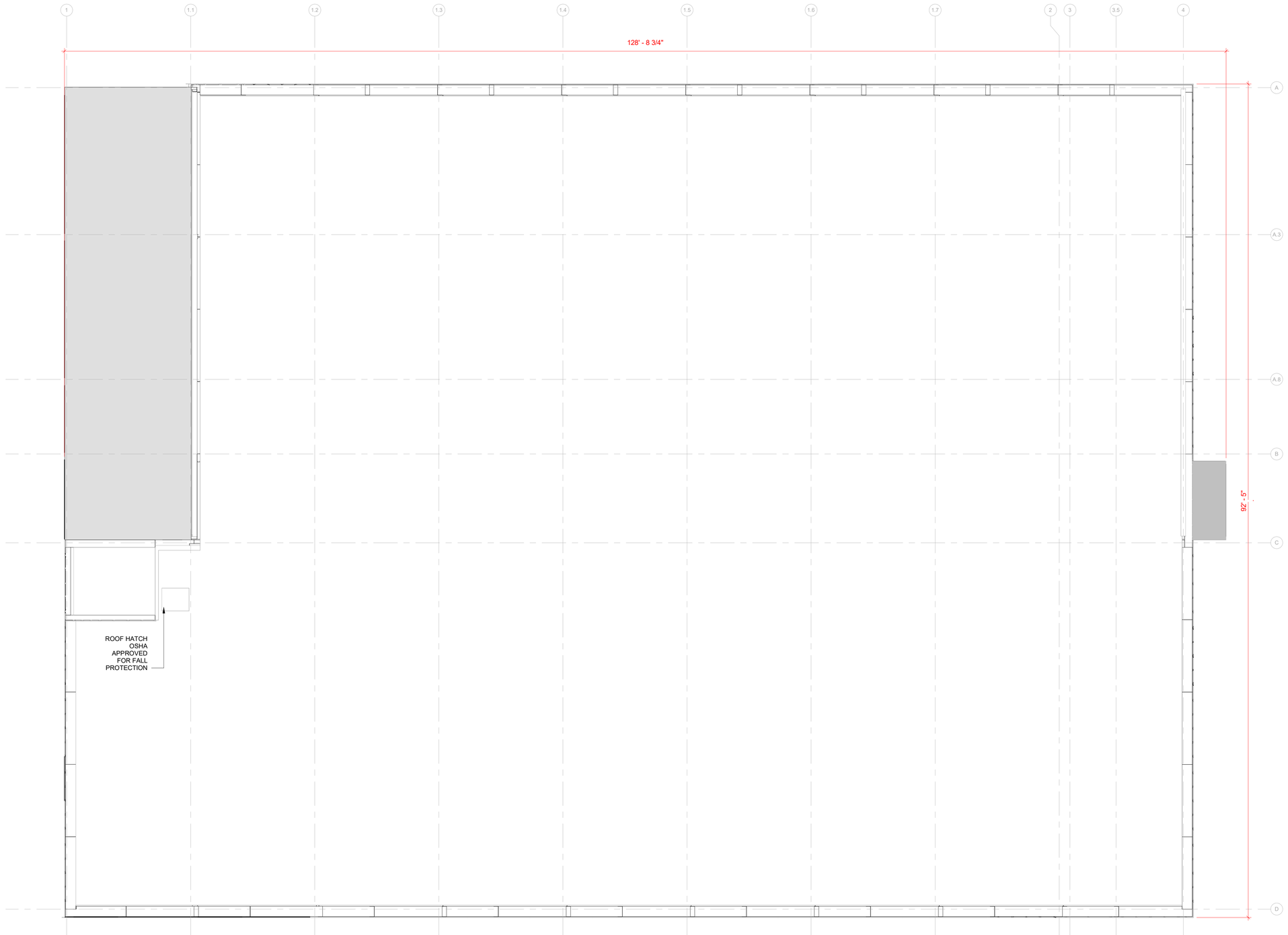
STATE OF CONNECTICUT · MILTON GREGORY GREW · NO. 4105 · LICENSED ARCHITECT

Milton Gregory Grew

DATE	11/07/2025
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DOB NO.	

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A-102.00

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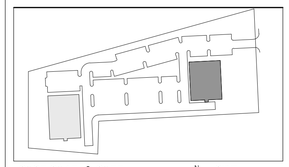
1 ROOF PLAN
3/16" = 1'-0"

1 4 8 12 16 20 24 28 32
0 2 6 10 14 18 22 26 30

Vessel

OWNER
VESSEL RE Holdings, LLC
46 W 55TH ST
NEW YORK, NY 10019
TEL: 212.413.0850

ARCHITECT OF RECORD
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WOODBURY, CT 06798
(203) 217 - 1074
mggrew@grewdesign.com



2135,2145, & 2155
RESERVOIR AVENUE
TRUMBULL, CT

N SITE DIAGRAM

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PROJECT
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RESERVOIR AVENUE
TRUMBULL, CT

DRAWING TITLE
BUILDING 1
ROOF PLAN

SEAL & SIGNATURE

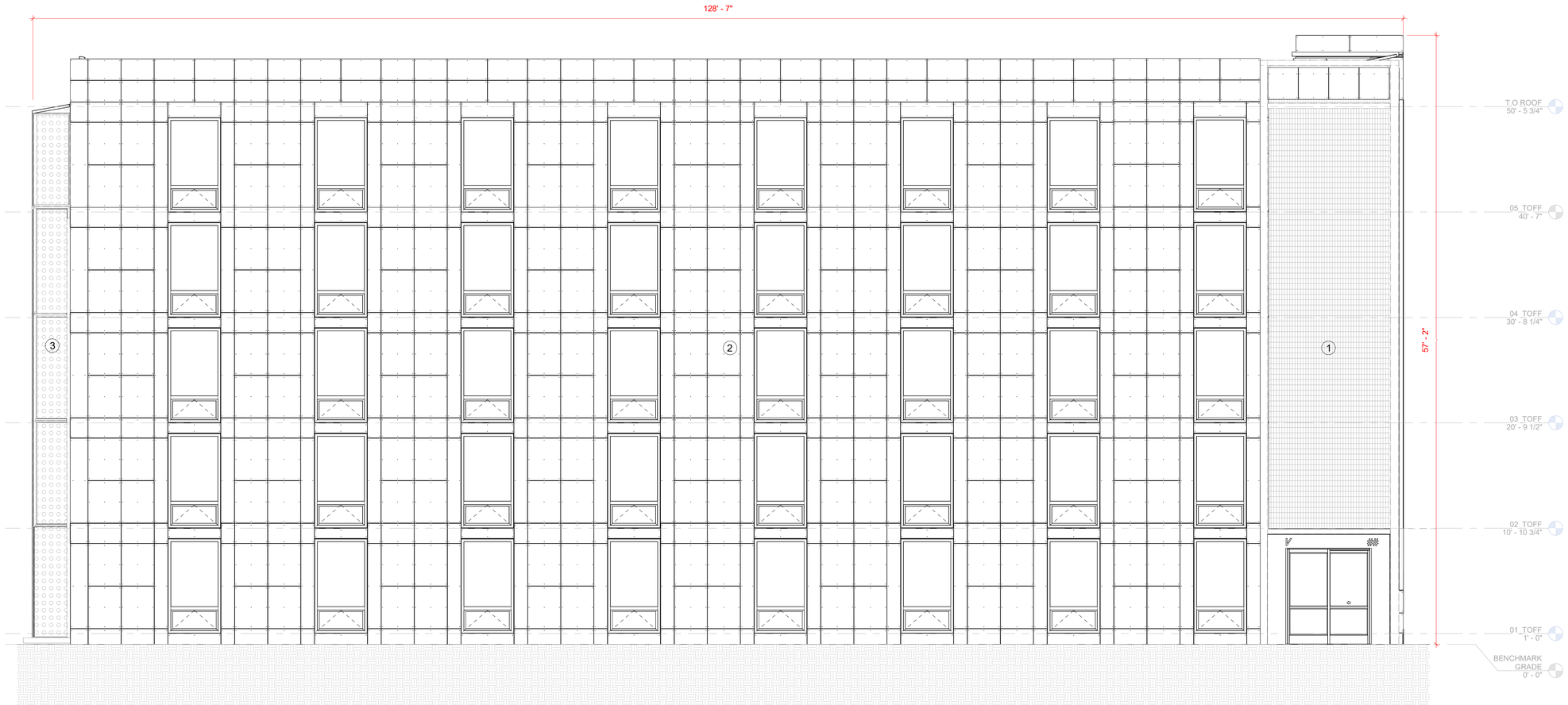
STATE OF CONNECTICUT · MILTON GREGORY GREW · NO. 4185 · LICENSED ARCHITECT

Milton Gregory Grew

DATE	11/07/2025
PROJECT NO.	00
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DRAWING NUMBER
A-103.00

11/7/2025 3:53:43 PM



1 EAST ELEVATION
3/16" = 1'-0"

1 4 8 12 16 20 24 28 32
0 2 6 10 14 18 22 26 30

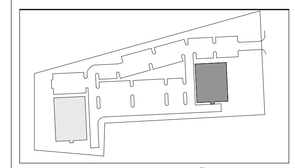
MATERIAL SCHEDULE

1. >50% OPEN ARCHITECTURAL MEH SCREEN (ASTM CLASS A AND NFPA 701 TESTED)
2. HIGH PRESSURE LAMINATE MEETING THE REQUIREMENTS OF IBC SECTION 1408
3. METAL SCREEN (>50% OPEN)

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2135,2145, & 2155
RESERVOIR AVENUE
TRUMBULL, CT

SITE
DIAGRAM

PROGRESS SET, 11/07/2025

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PROJECT
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RESERVOIR AVENUE
TRUMBULL, CT

DRAWING TITLE
BUILDING 1
EAST ELEVATION

SEAL & SIGNATURE

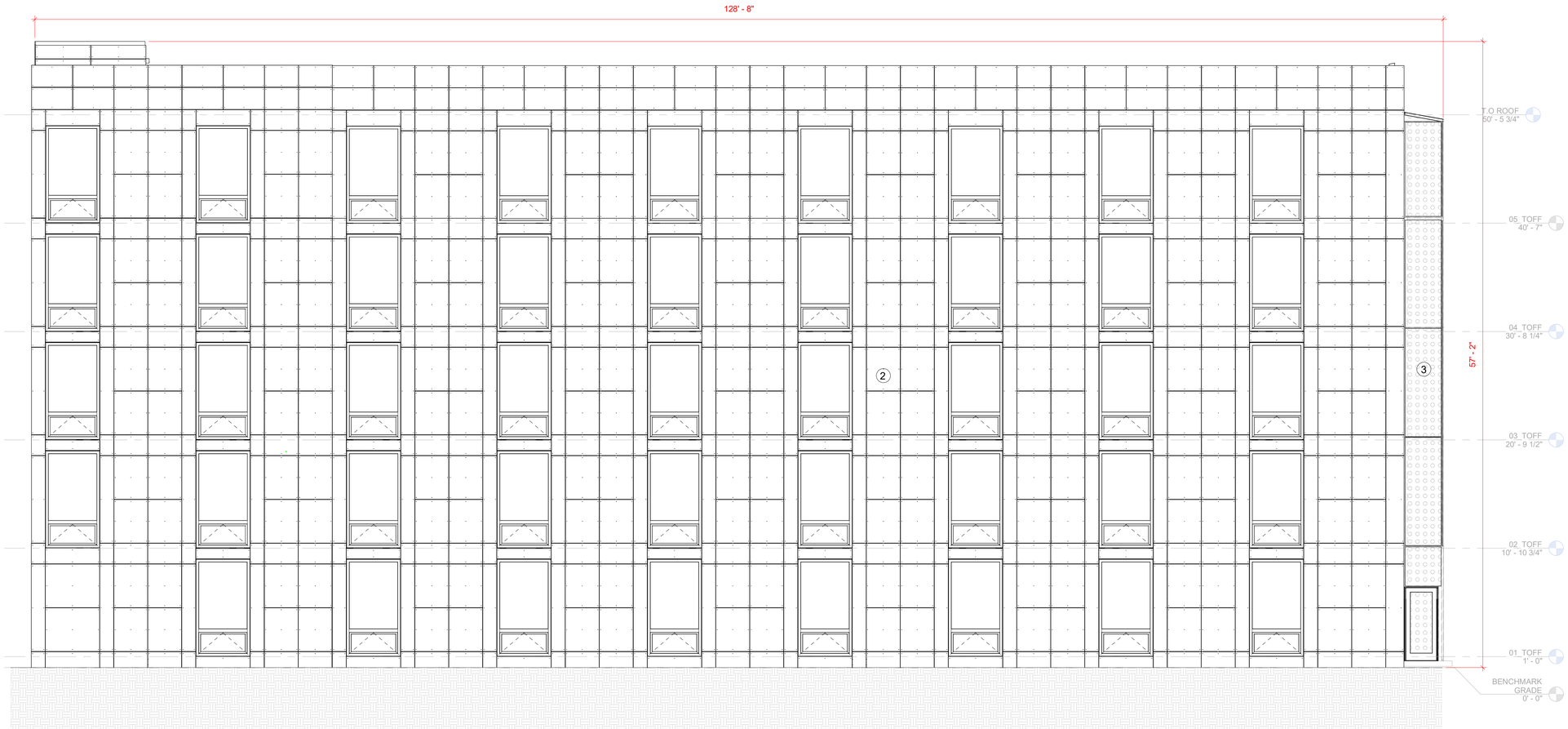
STATE OF CONNECTICUT · MILTON GREGORY GREW · NO. 4185 · LICENSED ARCHITECT

Milton Gregory Grew

DATE	11/07/2025
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DRAWING NUMBER
A-201.00

11/7/2025 3:59:04 PM



1 WEST ELEVATION
3/16" = 1'-0"

1 4 8 12 16 20 24 28 32
0 2 6 10 14 18 22 26 30

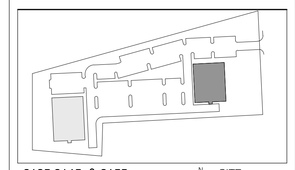
MATERIAL SCHEDULE

1. >50% OPEN ARCHITECTURAL MEH SCREEN (ASTM CLASS A AND NFPA 701 TESTED)
2. HIGH PRESSURE LAMINATE MEETING THE REQUIREMENTS OF IBC SECTION 1408
3. METAL SCREEN (>50% OPEN)

Vessel

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2135,2145, & 2155
RESERVOIR AVENUE
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SITE DIAGRAM

PROGRESS SET, 11/07/2025

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PROJECT
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RESERVOIR AVENUE
TRUMBULL, CT

DRAWING TITLE
BUILDING 1
WEST ELEVATION

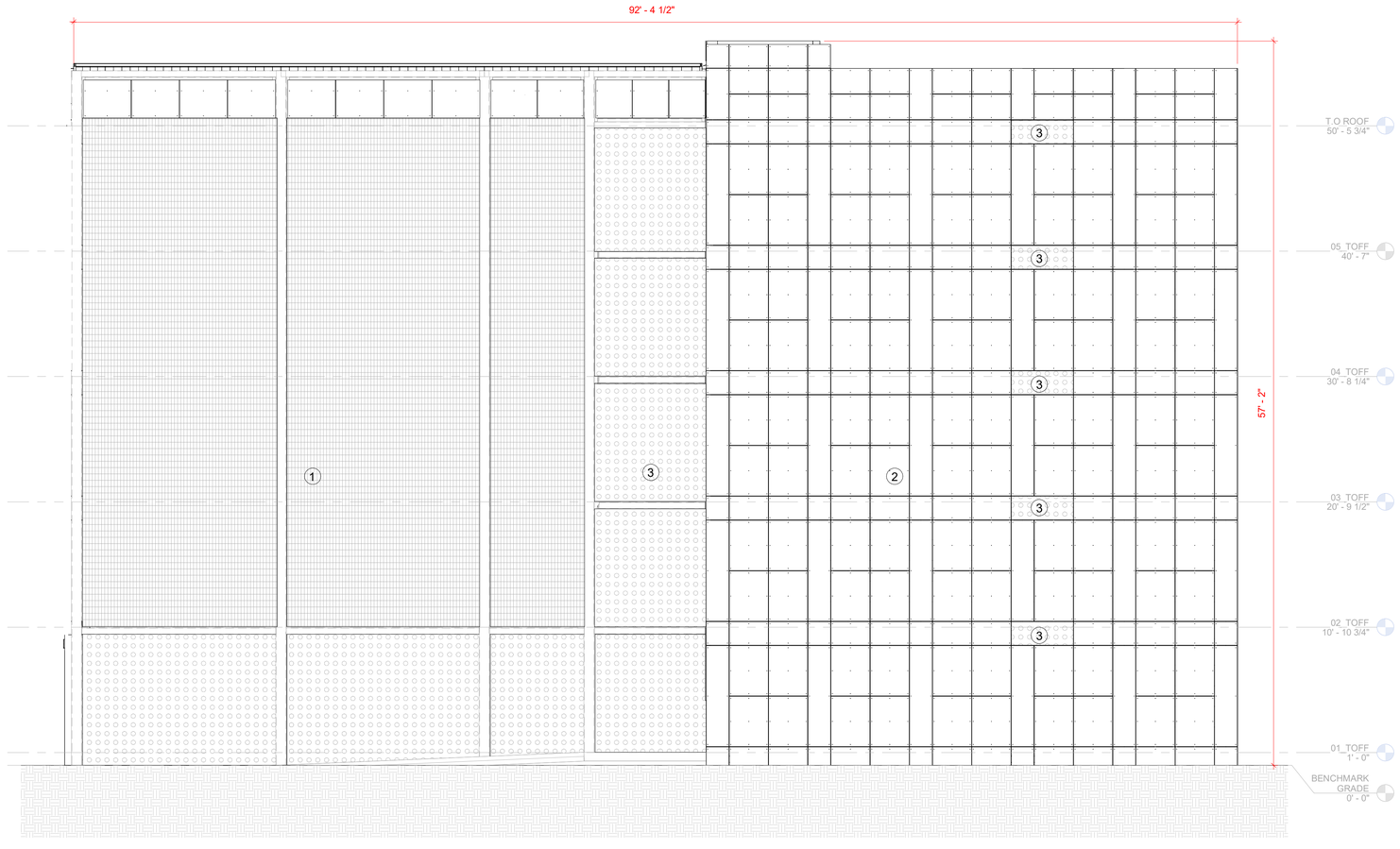
SEAL & SIGNATURE



DATE	11/07/2025
PROJECT NO.	00
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DOB NO.	

DRAWING NUMBER
A-202.00

11/7/2025 3:53:48 PM



1 NORTH ELEVATION
3/16" = 1'-0"

1 4 8 12 16 20 24 28 32
0 2 6 10 14 18 22 26 30

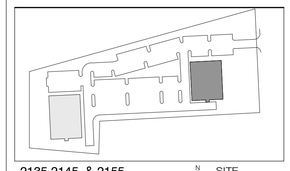
MATERIAL SCHEDULE

1. >50% OPEN ARCHITECTURAL MEH SCREEN (ASTM CLASS A AND NFPA 701 TESTED)
2. HIGH PRESSURE LAMINATE MEETING THE REQUIREMENTS OF IBC SECTION 1408
3. METAL SCREEN (>50% OPEN)

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RESERVOIR AVENUE
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SITE
DIAGRAM

PROGRESS SET, 11/07/2025

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RESERVOIR AVENUE
TRUMBULL, CT

DRAWING TITLE
BUILDING 1
NORTH ELEVATION

SEAL & SIGNATURE

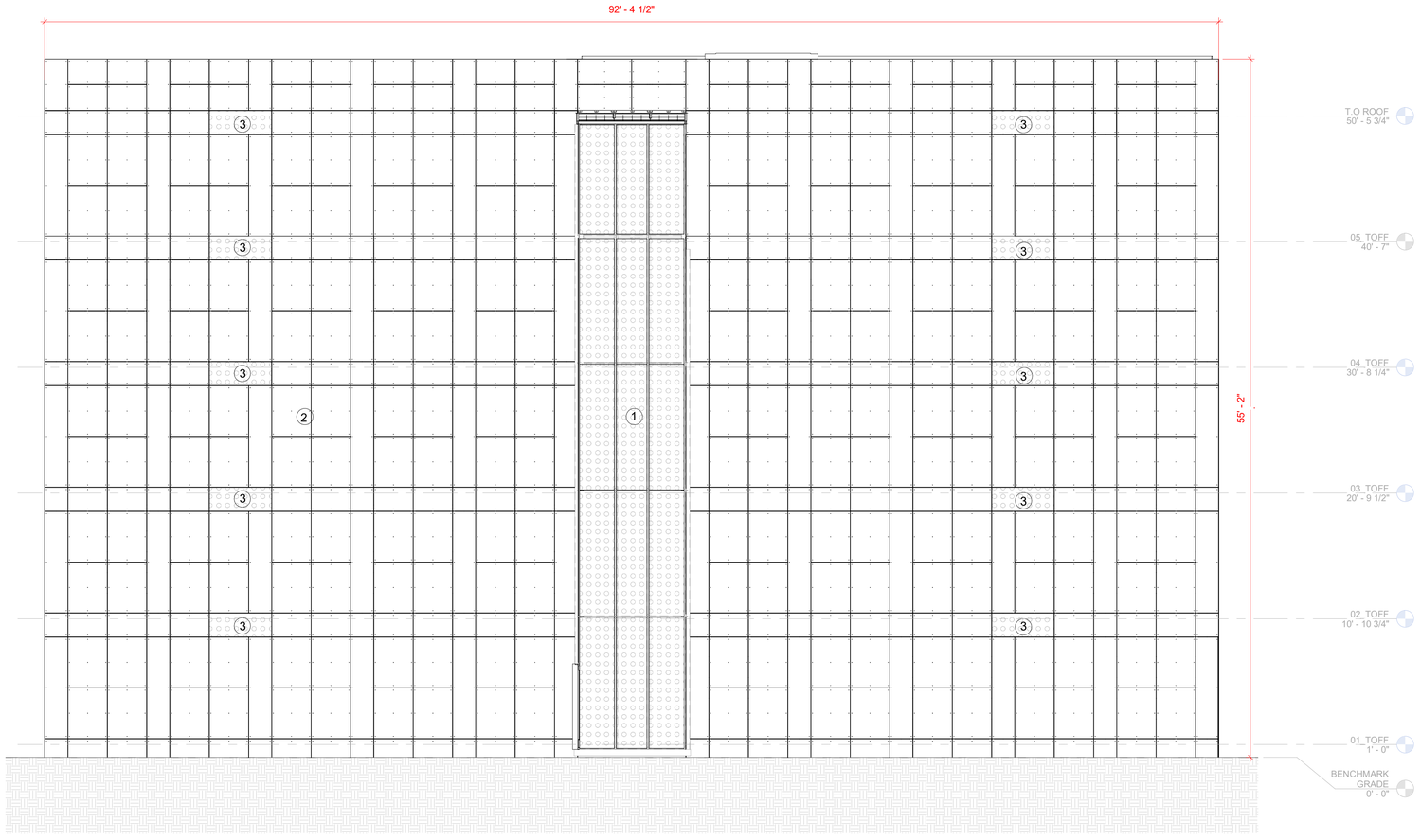
STATE OF CONNECTICUT · MILTON GREGORY GREW · NO. 4103 · REGISTERED ARCHITECT

Milton Gregory Grew

DATE	11/07/2025
PROJECT NO.	00
DRAWN BY	DG
CHECKED BY	GG
DOB NO.	

DRAWING NUMBER
A-203.00

11/7/2025 3:53:51 PM



1 SOUTH ELEVATION
3/16" = 1'-0"

1 4 8 12 16 20 24 28 32
0 2 6 10 14 18 22 26 30

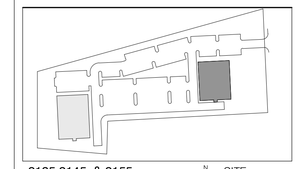
MATERIAL SCHEDULE

1. >50% OPEN ARCHITECTURAL MEH SCREEN (ASTM CLASS A AND NFPA 701 TESTED)
2. HIGH PRESSURE LAMINATE MEETING THE REQUIREMENTS OF IBC SECTION 1408
3. METAL SCREEN (>50% OPEN)

Vessel

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2135,2145, & 2155
RESERVOIR AVENUE
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SITE DIAGRAM

PROGRESS SET, 11/07/2025

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PROJECT
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RESERVOIR AVENUE
TRUMBULL, CT

DRAWING TITLE
BUILDING 1
SOUTH ELEVATION

SEAL & SIGNATURE

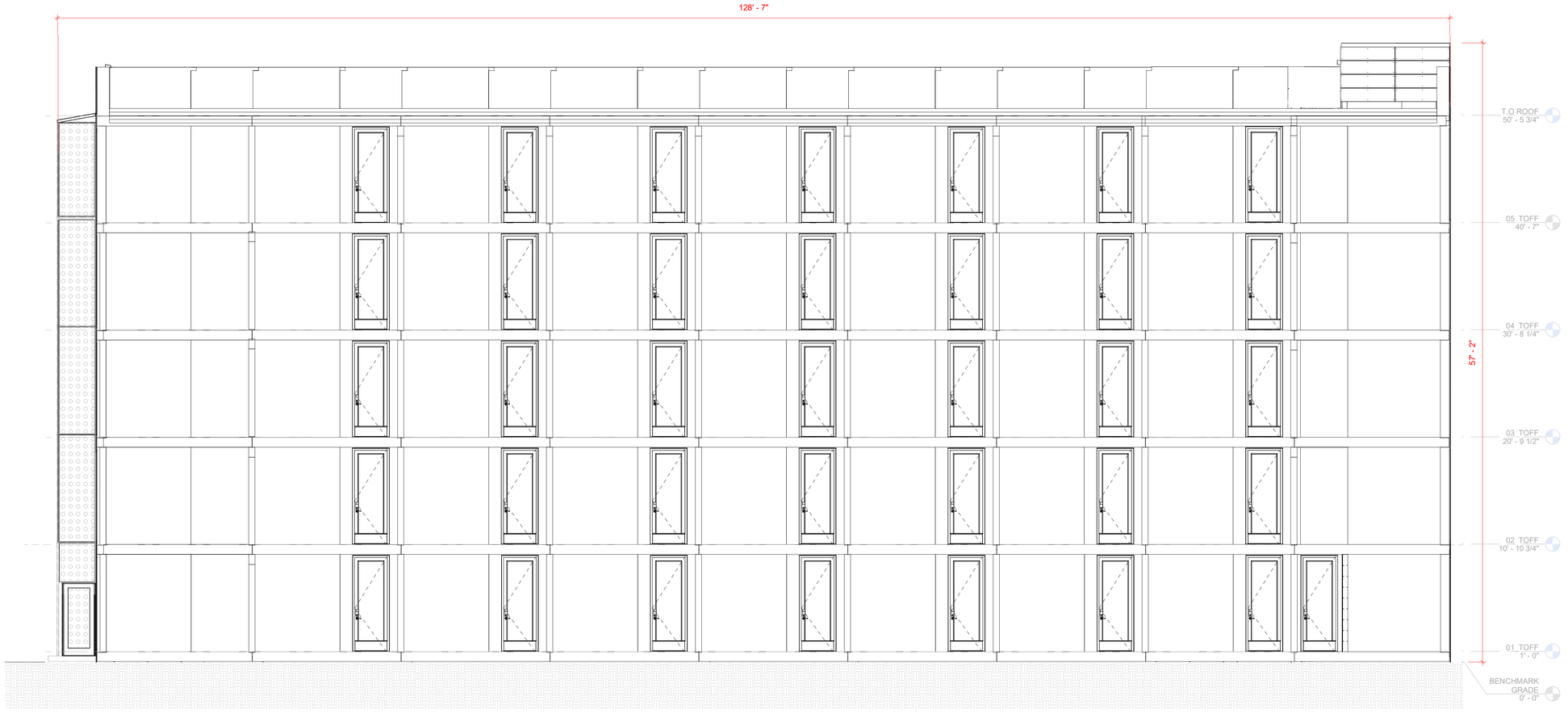
STATE OF CONNECTICUT · MILTON GREGORY GREW · NO. 4185 · LICENSED ARCHITECT

Milton Gregory Grew

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A-204.00

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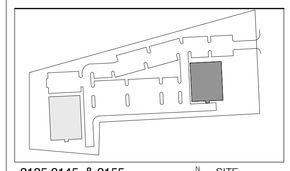
1 BUILDING SECTION 1
3/16" = 1'-0"

1 4 8 12 16 20 24 28 32
0 2 6 10 14 18 22 26 30

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2135,2145, & 2155
RESERVOIR AVENUE
TRUMBULL, CT

SITE
DIAGRAM

PROGRESS SET, 11/07/2025

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RESERVOIR AVENUE
TRUMBULL, CT

DRAWING TITLE
BUILDING 1
BUILDING SECTION 1

SEAL & SIGNATURE

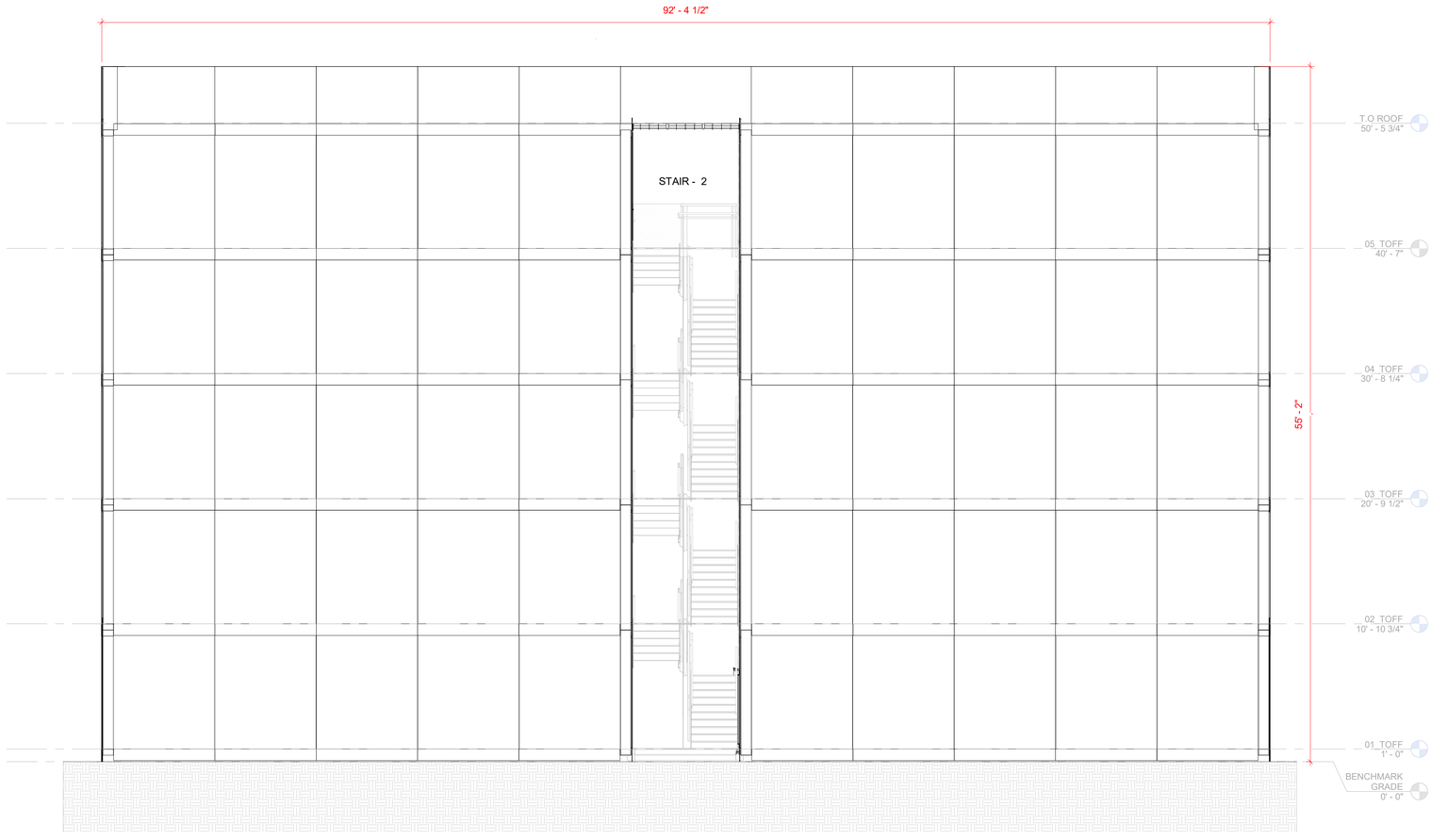
STATE OF CONNECTICUT · MILTON GREGORY GREW · NO. 4105 · LICENSED ARCHITECT

Milton Gregory Grew

DATE	11/07/2025
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DRAWN BY	DG
CHECKED BY	GG
DOB NO.	

DRAWING NUMBER
A-301.00

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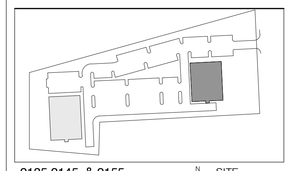
1 BUILDING SECTION 2
3/16" = 1'-0"

1 4 8 12 16 20 24 28 32
0 2 6 10 14 18 22 26 30

Vessel

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RESERVOIR AVENUE
TRUMBULL, CT

N
SITE
DIAGRAM

PROGRESS SET, 11/07/2025

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PROJECT
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RESERVOIR AVENUE
TRUMBULL, CT

DRAWING TITLE
BUILDING 1
BUILDING SECTION 2

SEAL & SIGNATURE

STATE OF CONNECTICUT
MILTON GREGORY GREW
NO. 4105
LICENSED ARCHITECT

Milton Gregory Grew

DATE	11/07/2025
PROJECT NO.	00
DRAWN BY	DG
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DOB NO.	

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A-302.00

11/7/2025 3:53:56 PM



TOTAL UNITS AREA CALCULATION - BUILDING 1				
FLOORS	UNIT TYPE	AREA	COUNT PER FLOOR	TOTAL AREA
FIRST FLOOR	1BD UNIT	575 SF	12	6900 SF
	2BD UNIT	1055 SF	00	0000 SF
	2BD UNIT	1150 SF	02	2300 SF
			14	9200 SF
TYPICAL FLOOR	1BD UNIT	575 SF	11	6325 SF
	2BD UNIT	1055 SF	01	1055 SF
	2BD UNIT	1150 SF	02	2300 SF
			14	9680 SF

FIRST FLOOR TOTAL	14	9200 SF
TYPICAL FLOOR TOTAL	56	38720 SF
TOTAL UNITS (5-STORY)	70	47920 SF

BUILDING 1 TOTAL UNITS	70	47920 SF
BUILDING 2 TOTAL UNITS	80	53670 SF
TOTAL UNITS	150	101590 SF

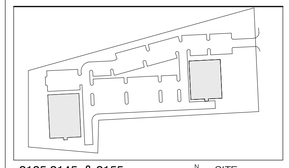
TOTAL UNITS AREA CALCULATION - BUILDING 2				
FLOORS	UNIT TYPE	AREA	COUNT PER FLOOR	TOTAL AREA
FIRST FLOOR	1BD UNIT	575 SF	14	8050 SF
	2BD UNIT	1055 SF	00	0000 SF
	2BD UNIT	1150 SF	02	2300 SF
			16	10350 SF
TYPICAL FLOOR	1BD UNIT	575 SF	13	7475 SF
	2BD UNIT	1055 SF	01	1055 SF
	2BD UNIT	1150 SF	02	2300 SF
			16	10830 SF

FIRST FLOOR TOTAL	16	10350 SF
TYPICAL FLOOR TOTAL	64	43320 SF
TOTAL UNITS (5-STORY)	80	53670 SF

Vessel

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ARCHITECT OF RECORD
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2135,2145, & 2155
RESERVOIR AVENUE
TRUMBULL, CT

SITE DIAGRAM

PROGRESS SET, 11/07/2025

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PROJECT

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RESERVOIR AVENUE
TRUMBULL, CT

DRAWING TITLE

BUILDING 2

COVER SHEET

SEAL & SIGNATURE

STATE OF CONNECTICUT · MILTON GREGORY GREW · NO. 4103 · LICENSED ARCHITECT

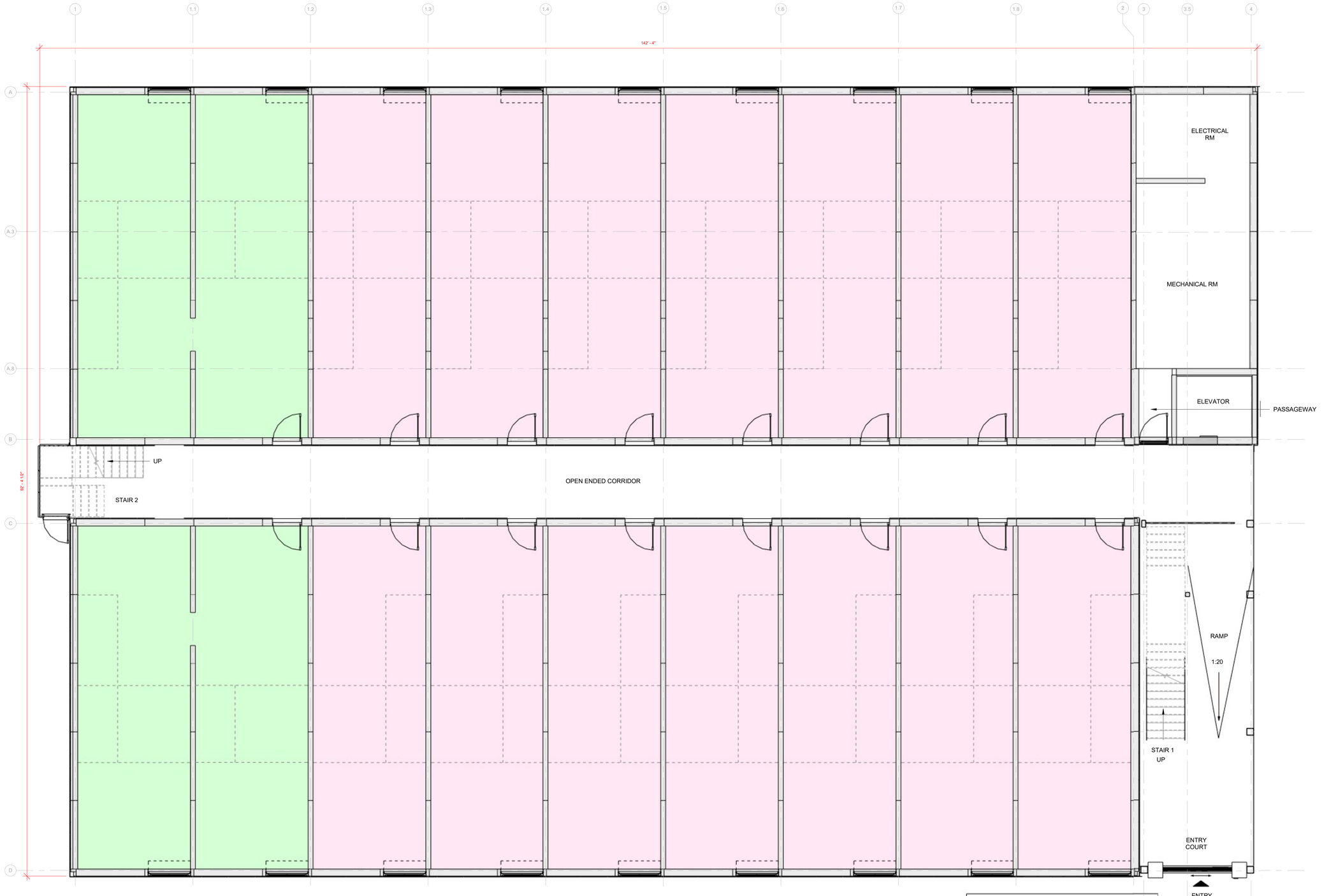
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DATE	11/07/2025
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DOB NO.	

DRAWING NUMBER

A-000.00

11/7/2025 3:33:27 PM



1 FIRST FLOOR PLAN
3/16" = 1'-0"

1 4 8 12 16 20 24 28 32
0 2 6 10 14 18 22 26 30

FIRST FLOOR UNITS AREA CALCULATION			
UNIT TYPE	AREA	COUNT FIRST FLOOR	TOTAL AREA
1BD UNIT	575 SF	14	8050 SF
2BD UNIT	1055 SF	00	0000 SF
2BD UNIT	1150 SF	02	2300 SF
TOTAL		16	10350 SF

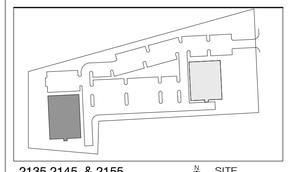
1 BR UNIT

2 BR UNIT

Vessel

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2135,2145, & 2155
RESERVOIR AVENUE
TRUMBULL, CT

N SITE DIAGRAM

PROGRESS SET, 11/07/2025

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RESERVOIR AVENUE
TRUMBULL, CT

DRAWING TITLE
BUILDING 2
FIRST FLOOR PLAN

SEAL & SIGNATURE

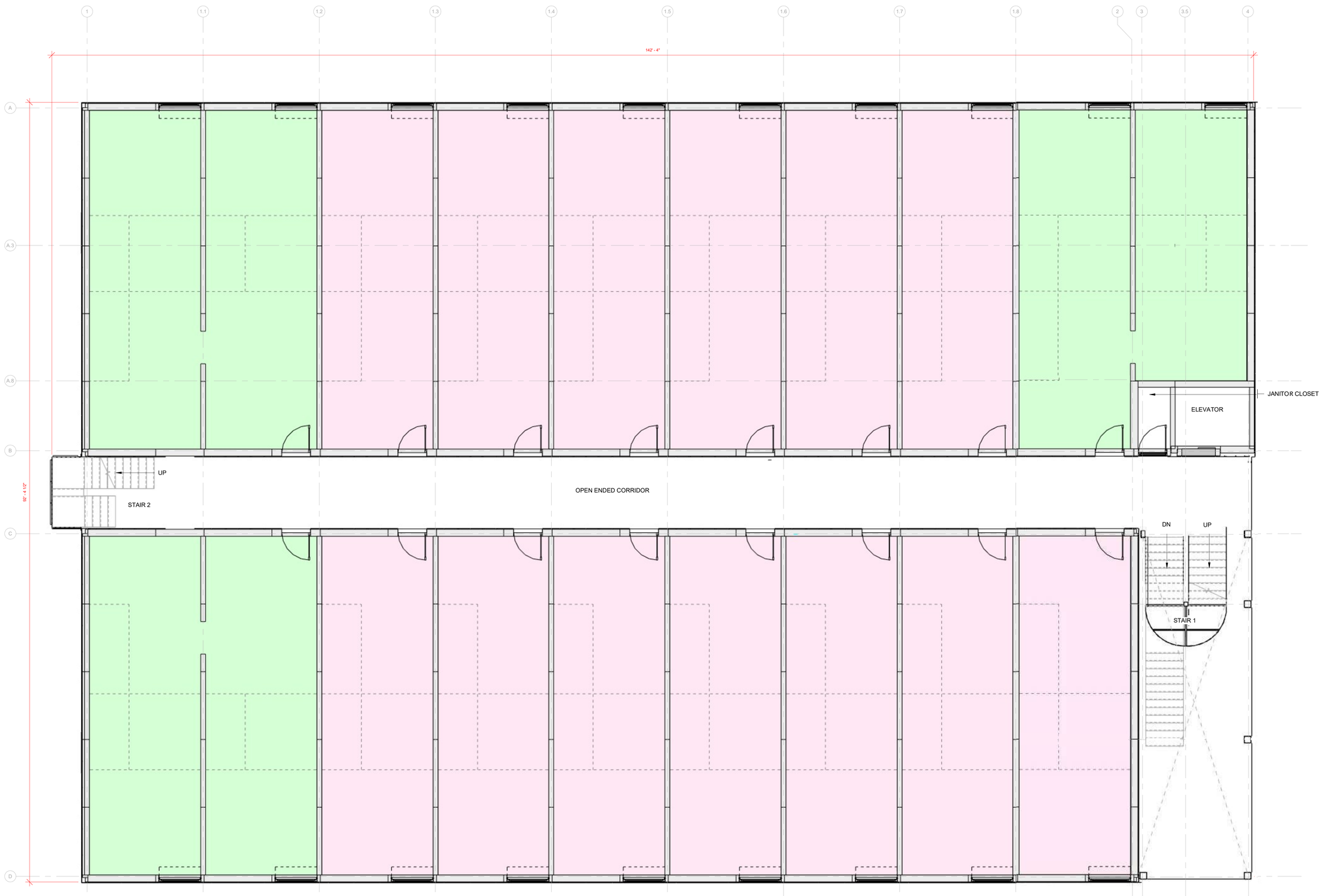
STATE OF CONNECTICUT · MILTON GREGORY GREW · NO. 4165 · LICENSED ARCHITECT

Milton Gregory Grew

DATE	11/07/2025
PROJECT NO.	00
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A-101.00

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1 TYPICAL FLOOR PLAN
3/16" = 1'-0"

1 4 8 12 16 20 24 28 32
0 2 6 10 14 18 22 26 30

TYPICAL FLOOR UNITS AREA CALCULATION			
UNIT TYPE	AREA	COUNT TYPICAL FLOOR	TOTAL AREA
1BD UNIT	575 SF	13	7475 SF
2BD UNIT	1055 SF	01	1055 SF
2BD UNIT	1150 SF	02	2300 SF
TOTAL		16	10830 SF

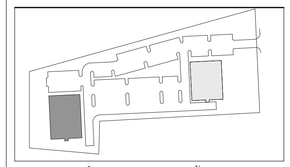
2 BR UNIT

1 BR UNIT

Vessel

OWNER
VESSEL RE Holdings, LLC
46 W 55TH ST
NEW YORK, NY 10019
TEL: 212.413.0850

ARCHITECT OF RECORD
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(203) 217 - 1074
mggrew@grewdesign.com



2135,2145, & 2155
RESERVOIR AVENUE
TRUMBULL, CT

SITE DIAGRAM

PROGRESS SET, 11/07/2025

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PROJECT
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TRUMBULL, CT

DRAWING TITLE
BUILDING 2
TYPICAL FLOOR PLAN
(FLOOR 2-5)

SEAL & SIGNATURE

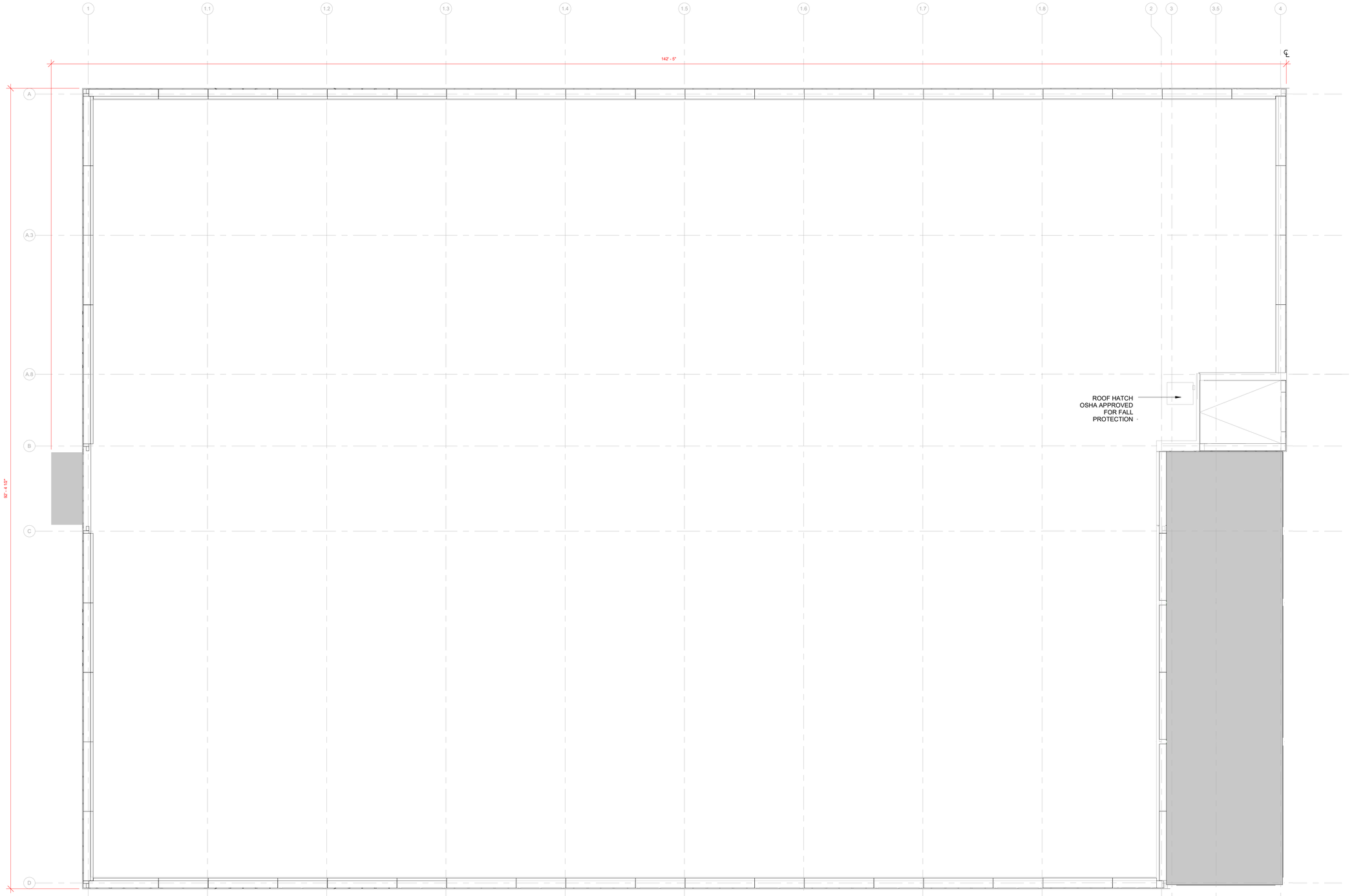
STATE OF CONNECTICUT · MILTON GREGORY GREW · NO. 4106 · REGISTERED ARCHITECT

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DATE	11/07/2025
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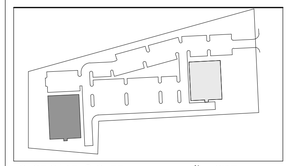
1 ROOF PLAN.
3/16" = 1'-0"

1 4 8 12 16 20 24 28 32
0 2 6 10 14 18 22 26 30

Vessel

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46 W 55TH ST
NEW YORK, NY 10019
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2135,2145, & 2155
RESERVOIR AVENUE
TRUMBULL, CT

N SITE DIAGRAM

PROGRESS SET, 11/07/2025

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PROJECT
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RESERVOIR AVENUE
TRUMBULL, CT

DRAWING TITLE
BUILDING 2
ROOF PLAN

SEAL & SIGNATURE

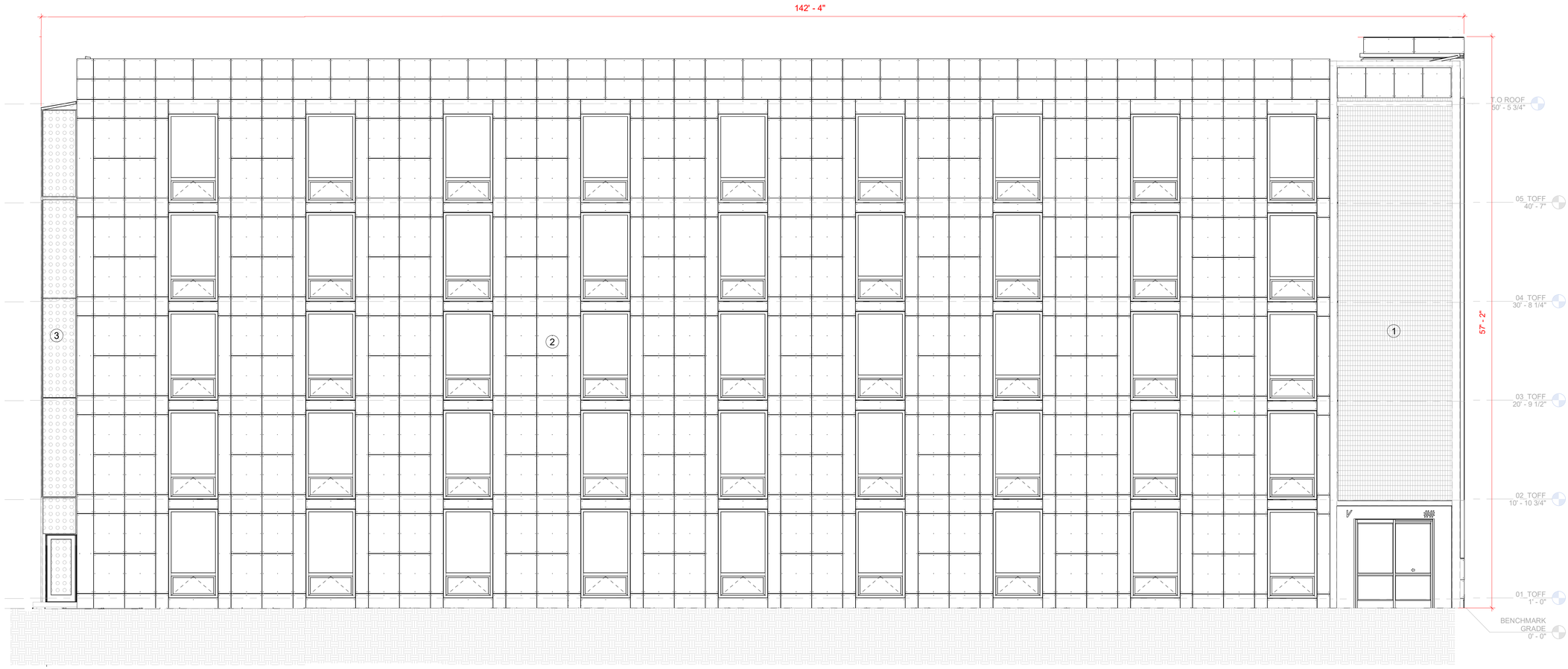
STATE OF CONNECTICUT · MILTON GREGORY GREW · NO. 4139 · LICENSED ARCHITECT

Milton Gregory Grew

DATE	11/07/2025
PROJECT NO.	00
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DOB NO.	

DRAWING NUMBER
A-103.00

11/7/2025 3:33:33 PM



1 EAST ELEVATION
3/16" = 1'-0"

1 4 8 12 16 20 24 28 32
0 2 6 10 14 18 22 26 30

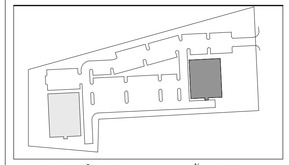
MATERIAL SCHEDULE

1. >50% OPEN ARCHITECTURAL MEH SCREEN (ASTM CLASS A AND NFPA 701 TESTED)
2. HIGH PRESSURE LAMINATE MEETING THE REQUIREMENTS OF IBC SECTION 1408
3. METAL SCREEN (>50% OPEN)

Vessel

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2135,2145, & 2155
RESERVOIR AVENUE
TRUMBULL, CT

N SITE DIAGRAM

PROGRESS SET, 11/07/2025

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PROJECT
2135,2145, & 2155
RESERVOIR AVENUE
TRUMBULL, CT

DRAWING TITLE
BUILDING 2
EAST ELEVATION

SEAL & SIGNATURE

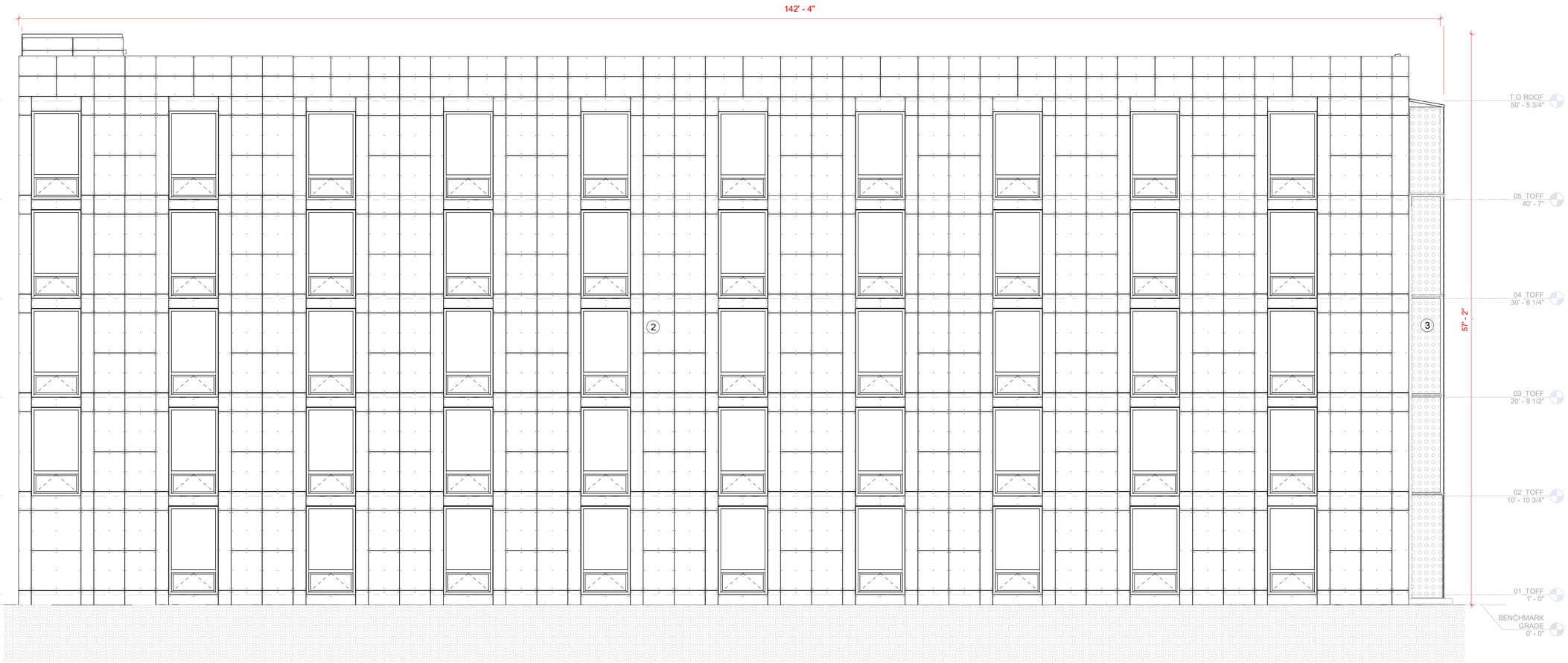
STATE OF CONNECTICUT · MILTON GREGORY GREW · NO. 4105 · LICENSED ARCHITECT

Milton Gregory Grew

DATE	11/07/2025
PROJECT NO.	00
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DOB NO.	

DRAWING NUMBER
A-201.00

11/7/2025 3:53:48 PM



1 WEST ELEVATION
3/16" = 1'-0"

1 4 8 12 16 20 24 28 32
0 2 6 10 14 18 22 26 30

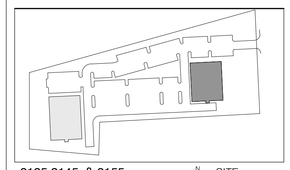
MATERIAL SCHEDULE

1. >50% OPEN ARCHITECTURAL MEH SCREEN (ASTM CLASS A AND NFPA 701 TESTED)
2. HIGH PRESSURE LAMINATE MEETING THE REQUIREMENTS OF IBC SECTION 1408
3. METAL SCREEN (>50% OPEN)

Vessel

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2135,2145, & 2155
RESERVOIR AVENUE
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SITE DIAGRAM

PROGRESS SET, 11/07/2025

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PROJECT
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RESERVOIR AVENUE
TRUMBULL, CT

DRAWING TITLE
BUILDING 2
WEST ELEVATION

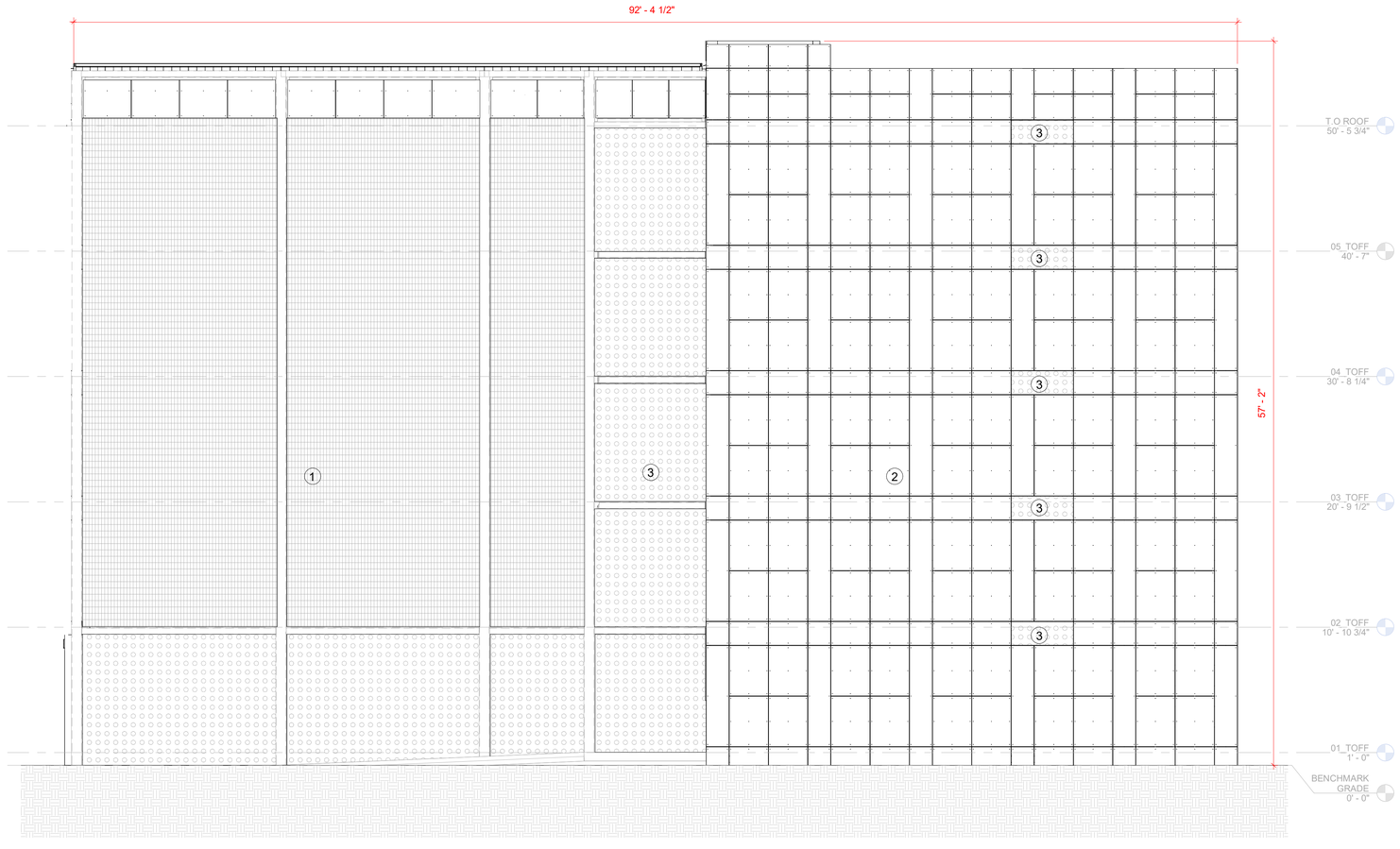
SEAL & SIGNATURE



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DRAWING NUMBER
A-202.00

11/7/2025 3:59:04 PM



1 NORTH ELEVATION
3/16" = 1'-0"

1 4 8 12 16 20 24 28 32
0 2 6 10 14 18 22 26 30

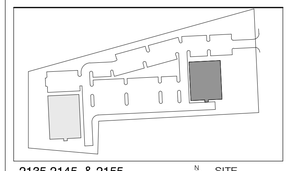
MATERIAL SCHEDULE

1. >50% OPEN ARCHITECTURAL MEH SCREEN (ASTM CLASS A AND NFPA 701 TESTED)
2. HIGH PRESSURE LAMINATE MEETING THE REQUIREMENTS OF IBC SECTION 1408
3. METAL SCREEN (>50% OPEN)

Vessel

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2135,2145, & 2155
RESERVOIR AVENUE
TRUMBULL, CT

SITE
DIAGRAM

PROGRESS SET, 11/07/2025

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PROJECT
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RESERVOIR AVENUE
TRUMBULL, CT

DRAWING TITLE
BUILDING 2
NORTH ELEVATION

SEAL & SIGNATURE

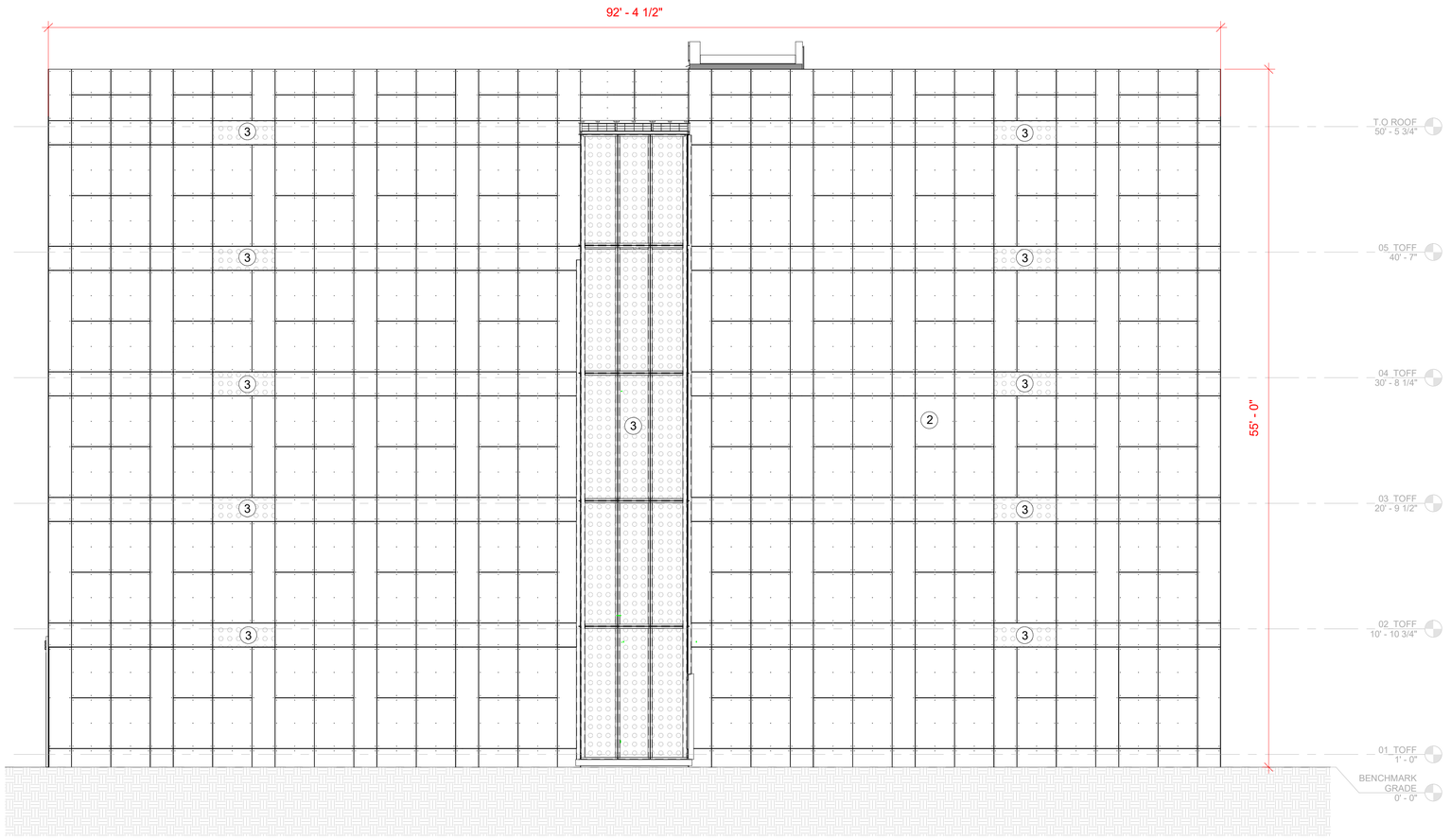
STATE OF CONNECTICUT · MILTON GREGORY GREW · NO. 4103 · REGISTERED ARCHITECT

Milton Gregory Grew

DATE	11/07/2025
PROJECT NO.	00
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CHECKED BY	GG
DOB NO.	

DRAWING NUMBER
A-203.00

11/7/2025 3:53:51 PM



1 SOUTH ELEVATION
3/16" = 1'-0"

1 4 8 12 16 20 24 28 32
0 2 6 10 14 18 22 26 30

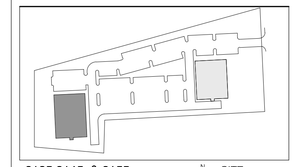
MATERIAL SCHEDULE

1. >50% OPEN ARCHITECTURAL MESH SCREEN (ASTM CLASS A AND NFPA 701 TESTED)
2. HIGH PRESSURE LAMINATE MEETING THE REQUIREMENTS OF IBC SECTION 1408
3. METAL SCREEN (>50% OPEN)

Vessel

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(203) 217 - 1074
mggrew@grewdesign.com



2135,2145, & 2155
RESERVOIR AVENUE
TRUMBULL, CT

N
SITE
DIAGRAM

PROGRESS SET, 11/07/2025

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PROJECT
2135,2145, & 2155
RESERVOIR AVENUE
TRUMBULL, CT

DRAWING TITLE
BUILDING 2
SOUTH ELEVATION

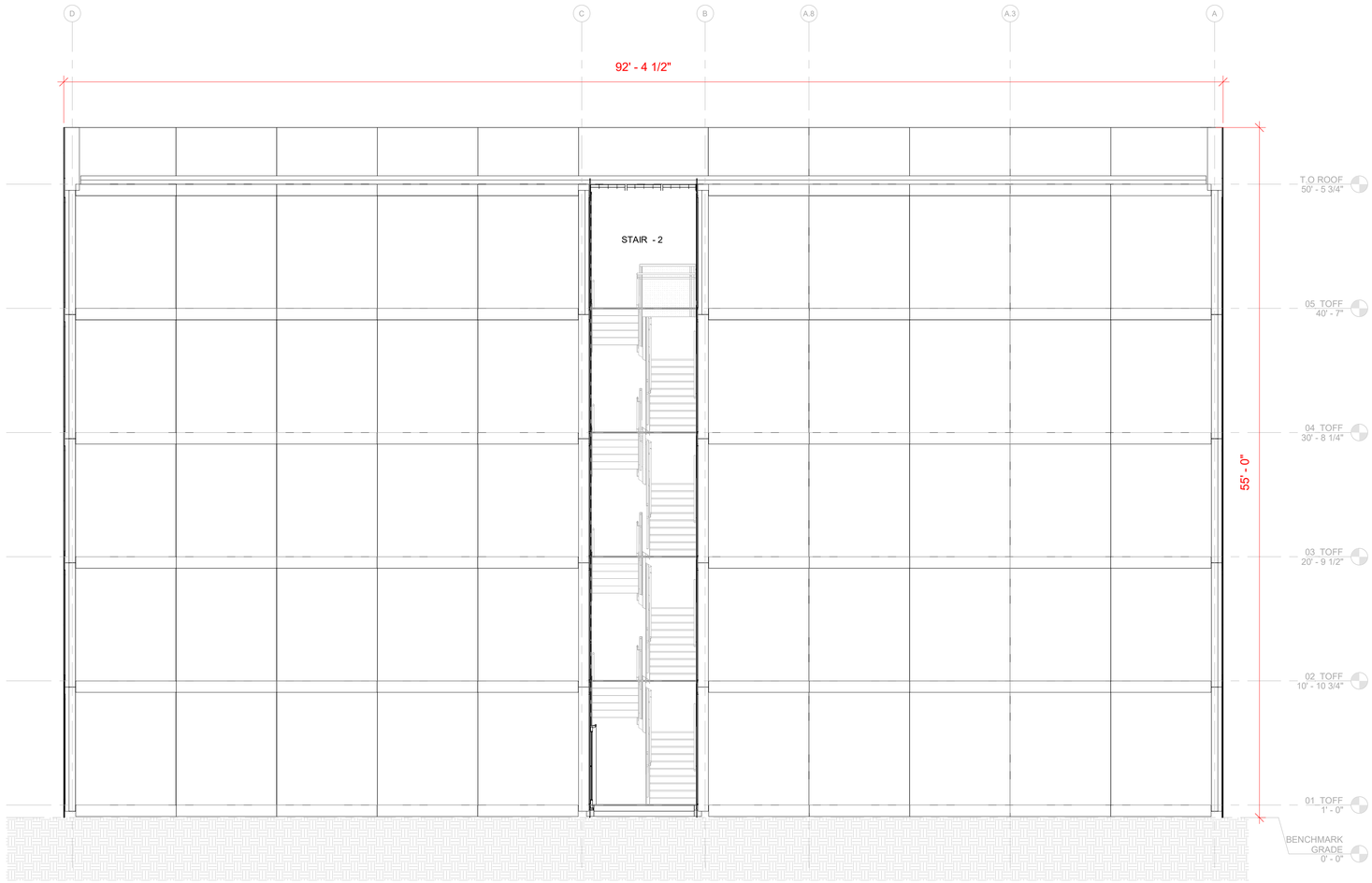
SEAL & SIGNATURE



DATE	11/07/2025
PROJECT NO.	00
DRAWN BY	DG
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DOB NO.	

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A-204.00

11/7/2025 3:33:49 PM



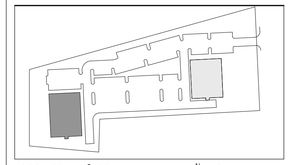
1 BUILDING SECTION - 1
3/16" = 1'-0"

0 2 6 10 14 18 22 26 30
1 4 8 12 16 20 24 28 32

Vessel

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RESERVOIR AVENUE
TRUMBULL, CT

N SITE DIAGRAM

PROGRESS SET, 11/07/2025

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RESERVOIR AVENUE
TRUMBULL, CT

DRAWING TITLE
BUILDING 2
BUILDING SECTION-1

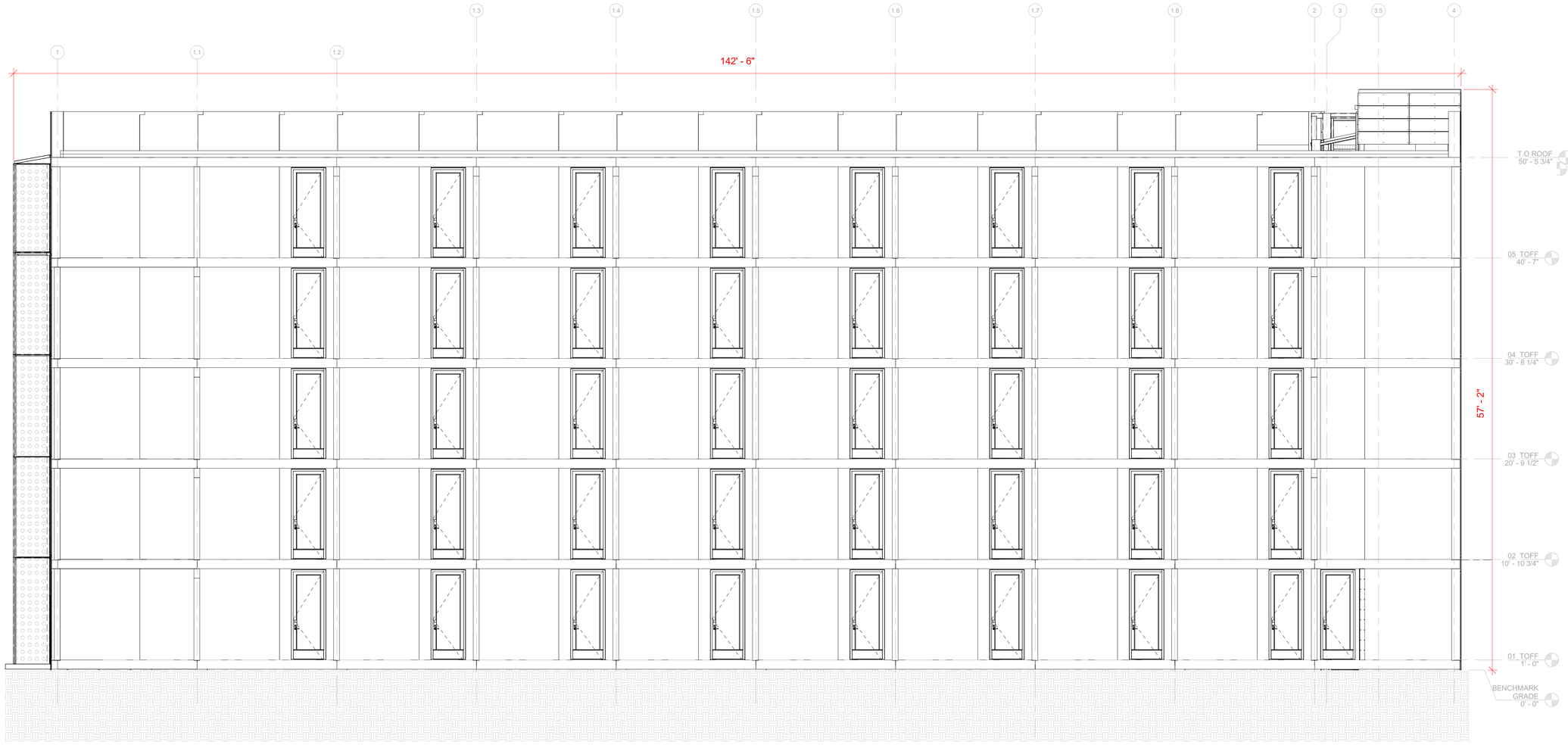
SEAL & SIGNATURE



DATE	11/07/2025
PROJECT NO.	00
DRAWN BY	DG
CHECKED BY	GG
DOB NO.	

DRAWING NUMBER
A-301.00

11/7/2025 3:33:51 PM



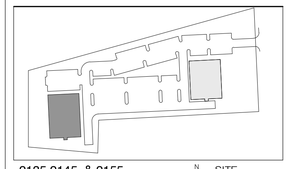
1 BUILDING SECTION - 2
3/16" = 1'-0"

0 2 6 10 14 18 22 26 30
1 4 8 12 16 20 24 28 32

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2135,2145, & 2155
RESERVOIR AVENUE
TRUMBULL, CT

N
SITE
DIAGRAM

PROGRESS SET, 11/07/2025

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PROJECT
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RESERVOIR AVENUE
TRUMBULL, CT

DRAWING TITLE
BUILDING 2
BUILDING SECTION-2

SEAL & SIGNATURE

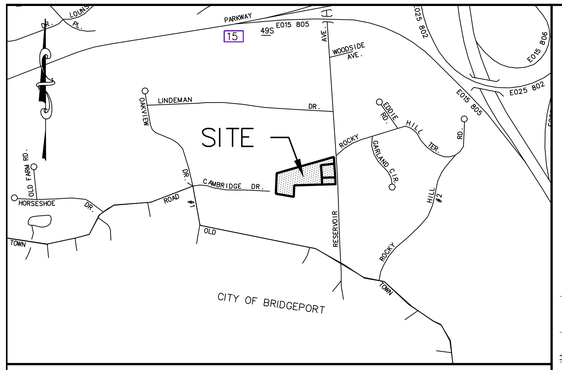
STATE OF CONNECTICUT · MILTON GREGORY GREW · NO. 4103 · LICENSED ARCHITECT

Milton Gregory Grew

DATE	11/07/2025
PROJECT NO.	00
DRAWN BY	DG
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DOB NO.	

DRAWING NUMBER
A-302.00

11/7/2025 3:33:55 PM



LOCATION MAP

SCALE: 1"=800'

PS, 2135, 2145 & 2155 RESERVOIR AVENUE, TRUMBULL, CT.

GENERAL SURVEY NOTES

1. THIS SURVEY AND MAP HAS BEEN PREPARED IN ACCORDANCE WITH THE REGULATION OF CONNECTICUT STATE AGENCIES, SECTION 20–300b–1 THROUGH 20–300b–20, EFFECTIVE OCTOBER 26, 2018, AND THE "MINIMUM STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC.
2. THE BOUNDARY DETERMINATION SHOWN HEREON IS CONSIDERED A RESURVEY.
3. TOPOGRAPHIC DATA WERE OBTAINED FROM A PHOTOGRAMMETRIC SURVEY MAP HAVING ASPRS/NMAS CLASS 2 ACCURACY, PROVIDED BY GOLDEN AERIAL SURVEYS, INC. THE DATE OF AERIAL PHOTOGRAPHY USED WAS APRIL 2016. CONTOURS AND ELEVATIONS REFER TO NAVD 88 DATUM. ANY AREAS LISTED AS GROUND NOT VISIBLE WERE UNOBTAINABLE BY GOLDEN AERIAL DUE TO DENSE VEGETATION AND WERE INTERPOLATED AND SHOULD BE CONSIDERED CLASS T–D.
4. BEARINGS, COORDINATES AND ELEVATIONS ARE DERIVED FROM THE CONNECTICUT GEODETIC SURVEY (CTGS) VIA GPS TECHNOLOGY AND CONVENTIONAL SURVEY METHODS.
5. THIS IS A PROPERTY SURVEY. THE PURPOSE OF WHICH IS TO SHOW EXISTING CONDITIONS.
6. PROPERTIES ARE ALSO KNOWN AS TOWN OF TRUMBULL TAX LOTS 71, 73 & 74 ON ASSESSORS MAP G11.
7. TOTAL AREA = 167,319 SQ.FT. OR 3.83 ACRES
   2135 RESERVOIR AVENUE = 11,399 SQ.FT. OR 0.26 ACRES
   2145 RESERVOIR AVENUE = 22,026 SQ.FT. OR 0.50 ACRES
   2155 RESERVOIR AVENUE = 133,894 SQ.FT. OR 3.07 ACRES
8. PROPERTIES LIE IN ZONING DISTRICT "A".
9. PROPERTIES DO NOT LIE WITHIN A FLOOD HAZARD ZONE AS DETERMINED BY FEMA.
10. THE LOCATION OF UNDERGROUND UTILITIES SHOULD BE CONSIDERED APPROXIMATE AND OTHER THAN DEPICTED HEREON, IF ANY, IS UNKNOWN.

MAP REFERENCES

1. PLAN ENTITLED "MAP SHOWING PROPERTY OF GUSTAVE & CHRISTINE A. VOIGHT TO BE ACQUIRED BY ALOIS C. & ALICE J. SCHWAB OLD TOWN ROAD TRUMBULL, CONNECTICUT", SCALE 1"=50', DATED: NOVEMBER 6, 1951, BY EUGENE STEPHEN HAYES. ON FILE IN THE TOWN OF TRUMBULL CLERK'S OFFICE AS MAP 463.
2. PLAN ENTITLED "MAP SHOWING PROPERTY OF GUSTAVE & CHRISTINE A. VOIGHT TO BE ACQUIRED VINCENT J. & CATHERINE I. JAKUCENIS OLD TOWN ROAD TRUMBULL, CONNECTICUT", SCALE 1"=50', DATED: NOVEMBER 6, 1951, BY EUGENE STEPHEN HAYES. ON FILE IN THE TOWN OF TRUMBULL CLERK'S OFFICE AS MAP 464.
3. PLAN ENTITLED "MAP OF LOTS IN TRUMBULL, CONNECTICUT FOR PETER F. MILLER", SCALE 1"=40', DATED: OCTOBER 17,1959. ON FILE IN THE TOWN OF TRUMBULL CLERK'S OFFICE AS MAP 931.
4. PLAN ENTITLED "SUBDIVISION OF PROPERTY IN TRUMBULL, CONNECTICUT FOR LEDU LAMP DIVISION WASOMARK, INC", SCALE 1"=40', DATED: APRIL 2, 1979. BY FULLER & CO; INC. ON FILE IN THE TOWN OF TRUMBULL CLERK'S OFFICE AS MAP 2062.
5. PLAN ENTITLED "SUBDIVISION OF PROPERTY IN TRUMBULL, CONNECTICUT FOR LEDU LAMP DIVISION WASOMARK, INC", SCALE 1"=40', DATED: , REVISED: JANUARY 14, 1981 BY CARROCCIO & CARSON CONSULTING ENGINEERS, INC. ON FILE IN THE TOWN OF TRUMBULL CLERK'S OFFICE AS MAP 2165.

LEGEND

C.H.D.	Conn. Hwy. Dept. Monument	Gas gate valve	Evergreen Tree
Mon.	Monument	Water gate valve	Deciduous Tree
●	Iron Pin to be Set	Water meter	Swamp or Wetlands
■	Conc. Monument to be Set	hyd Hydrant	Tree Line
I. Pipe	Iron Pipe	W Water main (existing)	Watercourse
●	Iron Pin	G Gas Main (existing)	123 Existing Contours
D.H.	Drill Hole	SD Underground Storm Drain Pipes	R.C.P. Reinforced Concrete Pipe
Fnd.	Found	S Sanitary Sewer Main (existing)	C.M.P. Corrugated Metal Pipe
N/F	Now or Formerly	E Electrical Line (existing)	PT A Percolation Test Location
	Property Line	// Overhead Wires	TP 100 Deep Test Pit Location
	Property Line (adjoining)	S Sanitary Manhole	Stone Retaining Wall
	Building Setback Line	D Drain Manhole	Retaining Wall
	Easement Line	E Electric Manhole	Stone Wall
	Edge of water	T Telecom Manhole	Wetland Limit
	FEMA Flood Zone	U Unknown Manhole	WL Wetland Flag Number
BFE:	Base Flood Elevation	Chain Link or Split Rail Fence	Wetland Setback
×200.0	Existing Spot Elevation	Metal/Wire Fence	Benchmark
	Building (existing)	Wooden or Vinyl Fence	Monitoring Well
		Utility Pole with lamp	INV: Invert Elevation of Pipe
		Utility Pole	Existing Catch Basin/Pipe

No.	Date	REVISION DESCRIPTION

SCALE: 1"=30'

0 15 30 60 90

ACCURATE LAND SURVEYING, LLC
15 Research Drive, Woodbridge, CT 06525, Tel: 203.881.8145
501 Main Street, Monroe, CT 06468, Tel: 203.880.5455

PROPERTY SURVEY

OF

2135, 2145 & 2155 RESERVOIR AVENUE
TRUMBULL, CONNECTICUT

PREPARED FOR
VESSEL TECHNOLOGIES

STATE OF CONNECTICUT · BRYAN P. NESTERIAK · 23556 · LICENSED LAND SURVEYOR

TO THE BEST OF MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

BRYAN P. NESTERIAK, PE, LS 23556

Date	7/28/2025
Scale	1"=30'
Job No.	1595
Drawing No.	1 of 1

THIS DOCUMENT, THE IDEAS, AND DESIGN INCORPORATED HEREON IS AN INSTRUMENT OF PROFESSIONAL SERVICE AND THE PROPERTY OF ACCURATE LAND SURVEYING, LLC. AND IS NOT TO BE REPRODUCED OR USED IN WHOLE OR IN PART FOR ANY EXTENSION OF THIS PROJECT OR FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF ACCURATE LAND SURVEYING, LLC. THIS DRAWING IS NOT A FINAL AND VALID DOCUMENT WITHOUT A SIGNATURE OF THE CERTIFYING PROFESSIONAL AND A LIVE WET STAMP OR EMBOSSED SEAL.



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PROPOSED DEVELOPMENT

2135, 2145, 2155 RESERVOIR AVE
TRUMBULL, CONNECTICUT

Vessel

Vessel Trumbull
2135, 2145 and 2155 Reservoir Avenue Trumbull Connecticut

Housing Affordability Plan

Submission Draft
REVISED to November 2025

Filed by Vessel RE Holdings, LLC and Vessel Technologies Inc.

PREPARED BY:
Vessel Technologies, Inc.
46 West 55th Street
NY, NY 10019

Introduction

Vessel RE Holdings, LLC and Vessel Technologies Inc. (collectively, "Vessel") submit this Housing Affordability Plan for the 150 unit multi-family residential rental community known as "Vessel Trumbull," located on on property known as 2135, 2145 and 2155 Reservoir Avenue, Trumbull Connecticut (the "Community"). See **Exhibit A**, attached hereto.

Under this plan, thirty percent (30%) of the residential rental units – or forty-five (45) units – at the Community will meet the criteria for an "affordable housing development" as defined in Connecticut General Statutes ("C.G.S.") § 8-30g ("Housing Opportunity Units") or, more specifically, as a "set-aside development" under C.G.S. § 8-30g(a)(6). C.G.S. § 8-30g(a)(g) requires that fifteen percent (15%) of the Housing Opportunity Units be affordable for 40 years to families earning eighty percent (80%) or less of the area or State median income, whichever is less, and that fifteen percent (15%) be affordable to families earning sixty percent (60%) or less of the area or State median income, whichever is less. This Housing Affordability Plan ("Plan"), which is proposed as a condition of site plan approval by the Trumbull Land Use Department, satisfies these requirements and describes how the affordable housing apartment homes will be administered.

I. Apartment Homes Designated as Housing Opportunity Units.

Thirty percent (30%) of the residential rental units in the Community, or forty-five (45) units, will be designated as Housing Opportunity Units pursuant to C.G.S. § 8-30g. The specific apartments initially designated as Housing Opportunity Units are shown on reduced floor plans included in Schedule A of this Plan.

II. Forty (40) Year Affordability Period.

The Housing Opportunity Units in the Community shall be designated as affordable or workforce housing units for at least forty (40) years after the initial occupation of the Community. The 40 years shall be calculated for each Housing Opportunity Unit beginning on the date that the certificate of occupancy is issued for the Housing Opportunity Unit.

III. Pro-Rata Construction and Dispersion.

The Housing Opportunity Units shall be built and offered for rent on a *pro rata* basis as construction proceeds in accordance with the construction. It is the intent of this Plan that one (1) Housing Opportunity Unit will be built and offered for rental within the time that three (3) market-rate units are completed and offered for rental.

IV. Nature of Construction of Housing Opportunity Units.

The Housing Opportunity Units shall be constructed in substantial conformance with the site plans and floor plans approved in the zoning permits for the Community, as may be modified based on the requirements of the Trumbull Building Official or other Town staff in signing off on administrative permits or approvals. *See also* Schedule B of this Plan.

V. Entity Responsible for Administration and Compliance.

This Affordability Plan will be administered by Vessel RE Holdings LLC, an entity that is not in bad standing with CHFA or CT DOH, (the "Administrator"). The owner hereby represents that the Administrator and its staff have the experience necessary to administer this Plan. The principal point of contact under this Plan shall be Josh Levy. Contact information for the principal point of contact shall be provided to the Town of Trumbull and the Planning and Zoning Department prior to the issuance of a Certificate of Occupancy.

Upon any changes to the principal point of contact or the Administrator, the owner will provide notice of such change, prior to it taking effect, to the Town of Trumbull and the current residents.

If at any time, the Administrator or principal point of contact is changed, such change will only be to parties that have specific prior experience in administration and compliance monitoring. The Administrator shall either (i) be certified by the National Affordable Housing Management Association or an equivalent certification as an Affordable Housing Professional, or (ii) has at least 5 years of Affordable Housing management experience. Owner shall provide updated credentials for the new Administrator to the Town of Trumbull prior to such party taking over as the Administrator or principal point of contact.

The Administrator shall submit annually a written status report demonstrating compliance with affordability and occupancy rules and approval conditions. The Administrator shall provide the Town of Trumbull with evidence that each Housing Opportunity Unit has been qualified and is inhabited by a qualified individual pursuant to the requirements of C.G.S. § 8-30g.

The role of Administrator may be transferred or assigned to another entity, provided that such entity is certified by the National Affordable Housing Management Association or an equivalent certification as an Affordable Housing Professional or has at least 5 years of Affordable Housing management experience. In the event of any assignment of the role of Administrator, the owner will provide prior written notice to the Planning and Zoning Department and Town of Trumbull.

The owner will ensure that the residents of the buildings are provided with name and contact information of the Affordable Housing Administrator (company or individual) along with the name and contact information for the person or company in charge of the

management and maintenance of the property. If the person in charge of property management and maintenance is different than the emergency contact, then the contact information for the building's emergency contact shall also be provided. If there is a change to any of these entities, then notice shall be provided to existing tenants as well as to the town which shall include the updated contact information for the new person or entity assuming the applicable role.

VI. Notice of Initial Rental of Housing Opportunity Units.

Except as provided in Section X of this Plan and subject to Section VIII, during the initial lease-up of the Community, the Administrator shall provide notice of the availability for rental of each Housing Opportunity Unit. Such notice shall be provided, at a minimum, by advertising at least two times in a newspaper of general circulation in the Town of Trumbull. The Administrator shall also provide such notice to the Commission and to the Clerk of the Town of Trumbull. Such notice shall include a description of the available Housing Opportunity Unit(s), the eligibility criteria for potential residents, the maximum rental price (as hereinafter defined), and the availability of application forms and additional information. All such notices shall comply with the federal Fair Housing Act, 42 U.S.C. §§ 3601 *et seq*. and the Connecticut Fair Housing Act, C.G.S. §§ 46a-64b *et seq*. (together, the "Fair Housing Acts").

VII. Resident Eligibility.

Eligibility of applicants to lease a Housing Opportunity Unit in the Community shall be determined by the Administrator in accordance with this Plan and C.G.S. § 8-30g, as amended.

If an existing resident is determined to be ineligible in the future, the applicant will take all reasonable measures to either find the tenant another unit in the building that is not restricted or transfer the affordability restriction to another vacant unit. Provided, however, that the owner and/or the Administrator will not take any action that is not permitted pursuant to C.G.S. § 8-30g, as amended, or would result in the property being out of compliance. If there are no vacant units at the time the applicant becomes over-income, then the owner and/or the Administration shall comply with the requirements of C.G.S. § 8-30g, as amended.

VIII. Affirmative Fair Housing Marketing Plan.

The rental of both Housing Opportunity Units and market-rate units in the Community shall be publicized, using State regulations (See Schedule G) for affirmative fair housing marketing programs as guidelines. The purpose of such efforts shall be to apprise residents of municipalities of relatively high concentrations of minority populations of the availability of such units. The Administrator shall have responsibility for compliance with this section. Notices of initial availability of units shall be provided, at a minimum, by advertising at least two times in a newspaper of general circulation in such identified municipalities. The Administrator shall also provide such notices to the Commission and the local or regional housing authority. Such

notices shall include a description of the available Housing Opportunity Unit(s), the eligibility criteria for tenants, and the availability of application forms and additional information.

Using the above-referenced State regulations as guidelines, dissemination of information about available Housing Opportunity Units and market-rate units shall include:

A. Analyzing census, Connecticut Department of Economic and Community Development town profiles, and other data to identify racial and ethnic groups least likely to apply based on representation in Trumbull's population, including Asian Pacific, Black, Hispanic, and Native American populations.

B. Announcements/advertisements in publications and other media that will reach minority populations, including newspapers, and radio stations serving Trumbull and other towns in the metropolitan statistical area and regional planning area, and advertisements or flyers likely to be viewed on public transportation or public highway areas.

C. Announcements to social service agencies and other community contacts serving low-income minority families (such as churches, civil rights organizations, the housing authority, and other housing authorities in towns represented in Trumbull's metropolitan statistical area and regional planning agency, legal services organizations, etc.).

D. Assistance to minority applicants in processing applications.

E. Marketing efforts in geographic area of high minority concentrations within the housing market area and metropolitan statistical area.

F. Beginning affirmative marketing efforts prior to general marketing of units, and repeating again during initial marketing and at 50 percent completion and thereafter at reasonable period intervals with respect to re-rentals.

All notices shall comply with the federal and State Fair Housing Acts.

IX. Application Process.

A person seeking to rent one of the Housing Opportunity Units ("Applicant") must complete an application to demonstrate eligibility. The application form and process shall comply with the Fair Housing Acts.

A. Application Form.

The application form shall be provided by the Administrator and shall include an income certification form. In general, "income" for purposes of determining an Applicant's qualification shall include the Applicant family's total anticipated income from all sources for the twelve (12) month period following the date the lease commences (the "Lease Begin Date"). If the Applicant's financial disclosures indicate that the Applicant may experience a significant change in the Applicant's future income during the twelve (12) month period, the Administrator shall not consider this change unless there is a reasonable assurance that the

change will in fact occur.

In determining what is and is not to be included in the definition of annual family income, the Administrator shall use the criteria set forth by HUD and listed on Schedule C, attached.[1]

B. Applicant Interview.

The Administrator shall interview an Applicant upon submission of a completed application. Specifically, the Administrator shall, during the interview, undertake the following:

1. Review with the Applicant all the information provided on the application.

2. Explain to the Applicant the requirements for eligibility, verification procedures, and the penalties for supplying false information.

3. Verify that all sources of family income and family assets have been listed in the application. Make clear that the term "family" includes all individuals who are to occupy the home, and that no relationship by blood or marriage is required.

4. Request the Applicant to sign the necessary release forms to be used in verifying income. Inform the Applicant of what verification and documentation must be provided before the application is deemed complete.

5. Inform the Applicant that a decision as to eligibility cannot be made until all items on the application have been verified.

C. Verification of Applicant's Income.

Where it is evident from the income certification form provided by the Applicant that the Applicant is not eligible, additional verification procedures shall not be necessary. However, if the Applicant appears to be eligible, the Administrator shall require verification of the Applicant's reported income.

If applicable, the Applicant shall provide the documentation listed on Schedule D, attached hereto, to the Administrator. This list is not exclusive, and the Administrator may require any other verification or documentation as the Administrator deems necessary.

A sample rider to the lease agreement for Housing Opportunity Units is attached hereto as Schedule E.

X. Prioritization of Applicants for Initial Rental.

[1] *See* 24 C.F.R. § 5.609. Federal regulations are subject to change, and it is the intent of this Affordability Plan to follow HUD regulations with respect to income certification as such regulations may be amended from time to time.

In the event that the number of qualified Applicants exceeds the number of Housing Opportunity Units, then the Administrator shall compile a waiting list, from which Applicants will be selected on a first-come, first-served basis. For purposes of this section, an application shall be considered received when a completed and signed application form is submitted with the applicable application fee.

XI. Maximum Rental Price.

Calculation of the maximum rental price ("Maximum Rental Price") for a Housing Opportunity Unit, so as to satisfy C.G.S. § 8-30g, shall utilize the lesser of the area median income for the Town of Trumbull or the statewide median income as published by HUD as in effect on the day a lease is signed by the lessee of the Housing Opportunity Unit ("Resident"). Such income shall then be adjusted for household size assuming occupancy by 1.5 persons per bedroom and using the adjustment formula adopted by State regulations. The Maximum Rental Price shall be calculated as follows:

ONE BEDROOM RENTAL UNIT FOR FAMILY EARNING LESS THAN 80 PERCENT OF STATEWIDE MEDIAN INCOME

1. Determine lower of relevant year (2025) area median income for Bridgeport, CT HUD Metro ($148,900), or statewide median income ($124,600), adjusted for family size (family of 4), as published by HUD	$124,600
2. Determine adjusted income for household of 1.5 persons by calculating 75 percent of Item 1	$93,450
3. Calculate 80 percent of Item 2	$74,760
4. Calculate 30 percent of Item 3, representing maximum portion of a family's income that may be used for housing	$22,428
5. Divide item 4 by 12 to determine maximum monthly housing expense	$1,869
6. Compare HUD 2025 Fair Market Rents for Bridgeport, CT HUD Metro ($1,572) times 120 percent	$1,886
7. Use Lesser if calculated maximum monthly expense (Item 5) and HUD fair market rent (Item 6)	$1,869
8. Determine by reasonable estimate monthly expenses for heat and utility costs, excluding telephone and cable television but including any fee required for all tenants (tenant responsible for such expenses)	$115

9. Subtract reasonable monthly expenses (Items 8) from maximum housing expense (Item 7) to determine maximum amount available for rent	$1,754

ONE BEDROOM RENTAL UNIT FOR FAMILY EARNING LESS THAN 60 PERCENT OF STATEWIDE MEDIAN INCOME

1. Determine lower of relevant year (2025) area median income for Bridgeport, CT HUD Metro ($148,900), or statewide median income ($124,600), adjusted for family size (family of 4), as published by HUD	$124,600
2. Determine adjusted income for household of 1.5 persons by calculating 75 percent of Item 1	$93,450
3. Calculate 60 percent of Item 2	$56,070
4. Calculate 30 percent of Item 3, representing maximum portion of a family's income that may be used for housing	$16,821
5. Divide item 4 by 12 to determine maximum monthly housing expense	$1,402
6. Compare HUD 2025 Fair Market Rents for Bridgeport, CT HUD Metro ($1,572)	$1,572
7. Use Lesser if calculated maximum monthly expense (Item 5) and HUD fair market rent (Item 6)	$1,402
8. Determine by reasonable estimate monthly expenses for heat and utility costs, excluding telephone and cable television but including any fee required for all tenants (tenant responsible for such expenses)	$115
9. Subtract reasonable monthly expenses (Items 8) from maximum housing expense (Item 7) to determine maximum amount available for rent	$1,287

TWO BEDROOM RENTAL UNIT FOR FAMILY EARNING LESS THAN 80 PERCENT OF STATEWIDE MEDIAN INCOME

1. Determine lower of relevant year (2025) area median income for Bridgeport, CT HUD Metro ($148,900), or statewide median income ($124,600), adjusted for family size (family of 4), as published by HUD	$124,600
2. Determine adjusted income for household of 3 persons by calculating 90 percent of Item 1	$112,140
3. Calculate 80 percent of Item 2	$89,712
4. Calculate 30 percent of Item 3, representing maximum portion of a family's income that may be used for housing	$26,914
5. Divide Item 4 by 12 to determine maximum monthly housing expense	$2,243
6. Compare HUD 2025 Fair Market Rents for Bridgeport, CT HUD Metro ($1,967) times 120 percent	$2,360
7. Use Lesser if calculated maximum monthly expense (Item 5) and HUD fair market rent (Item 6)	$2,243
8. Determine by reasonable estimate monthly expenses for heat and utility costs, excluding telephone and cable television but including any fee required for all tenants (tenant responsible for such expenses)	$135
9. Subtract reasonable monthly expenses (Items 8) from maximum housing expense (Item 7) to determine maximum amount available for rent	$2,108

TWO BEDROOM RENTAL UNIT FOR FAMILY EARNING LESS THAN 60 PERCENT OF STATEWIDE MEDIAN INCOME

1. Determine lower of relevant year (2025) area median income for Bridgeport, CT HUD Metro ($148,900), or statewide median income ($124,600), adjusted for family size (family of 4), as published by HUD	$124,600
2. Determine adjusted income for household of 3 persons by calculating 90 percent of Item 1	$112,140
3. Calculate 60 percent of Item 2	$67,284
4. Calculate 30 percent of Item 3, representing maximum portion of a family's income that may be used for housing	$20,185
5. Divide Item 4 by 12 to determine maximum monthly housing expense	$1,682
6. Compare HUD 2025 Fair Market Rents for Bridgeport, CT HUD Metro ($1,967)	$1,967

7. Use Lesser if calculated maximum monthly expense (Item 5) and HUD fair market rent (Item 6)	$1,682
8. Determine by reasonable estimate monthly expenses for heat and utility costs, excluding telephone and cable television but including any fee required for all tenants (tenant responsible for such expenses)	$135
9. Subtract reasonable monthly expenses (Items 8) from maximum housing expense (Item 7) to determine maximum amount available for rent	$1,547

Note: *Utility allowances are shown in the above calculations are estimations and will be determined prior to the building placed in service.*

XII. Principal Residence.

Housing Opportunity Units shall be occupied only as a Resident's principal residence. Notwithstanding any zoning, subdivision or other regulation to the contrary, subleasing of Housing Opportunity Units shall be prohibited.

XIII. Requirement to Maintain Condition.

All Residents are required to maintain their units. The Resident shall not destroy, damage or impair the unit, allow the unit to deteriorate, or commit waste on the unit. When a Housing Opportunity Units offered again for rental, the Administrator shall cause the unit to be inspected.

XIV. Change of Income or Qualifying Status of Resident.

In the event that a Resident's income changes so as to exceed the qualifying maximum, or if the Resident otherwise becomes disqualified, such Resident must provide notice to the Administrator within seven (7) days of the disqualification. When a resident becomes disqualified, the Administrator shall require the Resident to vacate the Housing Opportunity Unit within sixty (60) days.

Should a current resident of a Housing Opportunity unit no longer qualify for said unit, then the owner shall permit the resident to apply for an available non-regulated unit (so long as otherwise acceptable pursuant to local, state or federal housing regulations) within 180 days of providing the Administrator of notice that they no longer qualify for a Housing Opportunity Unit. The applicant shall be required to meet all of the applicable leasing requirements for said unit. Notwithstanding the foregoing, the owner and Administrator shall not be required to do anything that is in contravention with any law, statute or regulation, nor shall they be expected to create a vacancy for said tenant. The requirement to provide a resident the opportunity to apply for the next available unit, shall only apply if there is a vacancy and shall not be construed to prevent an existing tenant from renewing their lease.

XV. Enforcement.

A violation of this Affordability Plan shall not result in a forfeiture of title, but the Commission shall otherwise retain all enforcement powers granted by the General Statutes, including § 8-12, which powers include, but are not limited to, the authority, at any reasonable time, to inspect the property and to examine the books and records of the Administrator to determine compliance of Housing Opportunity Units with this Affordability Plan and applicable state statutes and regulations. Such records are confidential and not subject to disclosure under the Freedom of Information Act.

XV. Change In Ownership.

If at any time there is a change of ownership of the Property, the existing owner shall provide written notice of the sale or transfer to the Town Planner within 30 days of executing Purchase and Sale Agreement, which notice shall include the name of the company that is purchasing the property along with a contact at said company.

XVI. Reporting.

The owner shall submit an annual report or certification to the Town of Trumbull Director of Planning to confirm that the property remains in conformance with the requirements of CGS 8-30g as it pertains to renting units to qualifying tenants.

SCHEDULE A
DESIGNATION OF HOUSING OPPORTUNITY UNITS

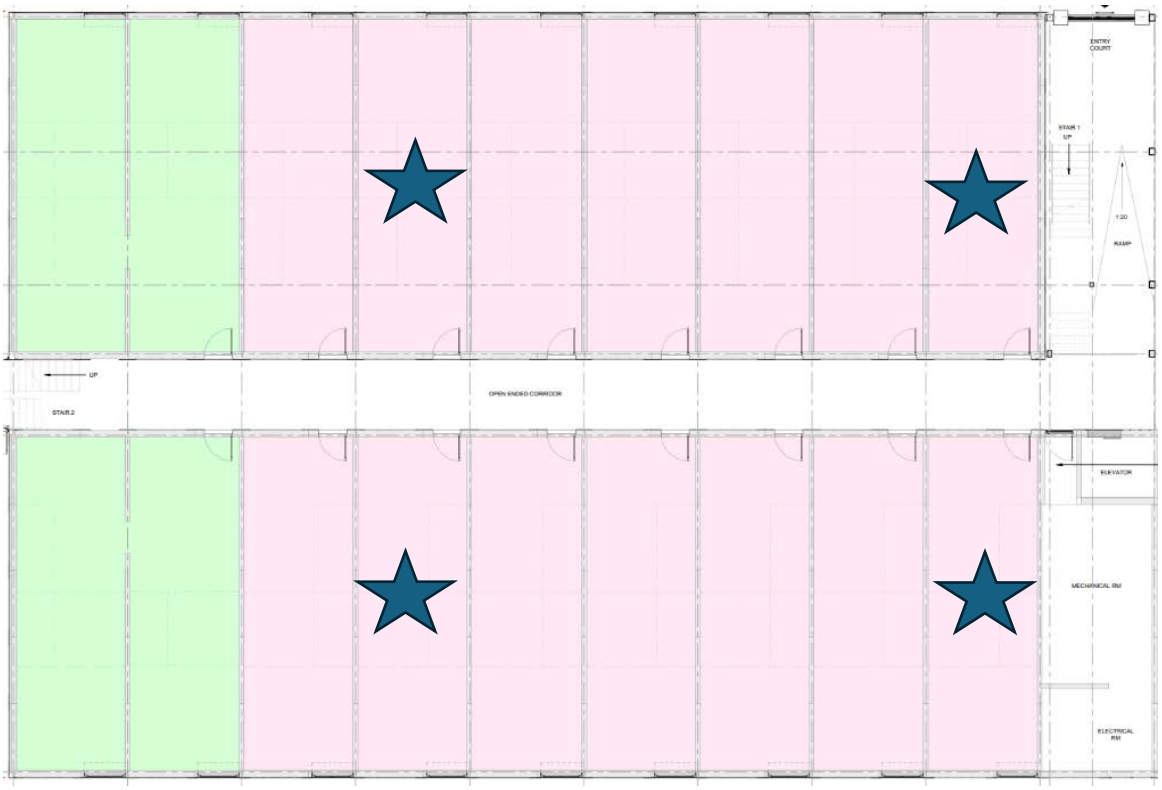
Total Number of Units:

	1BR	2BR	2BR + Den	TOTAL
Market-Rate Units:	85	6	14	105
Housing Opportunity Units:	37	2	6	45
TOTAL:	**122**	**8**	**20**	**150**

Apartment units designated as Housing Opportunity Units are identified on the attached floor plans using a "star"[2].

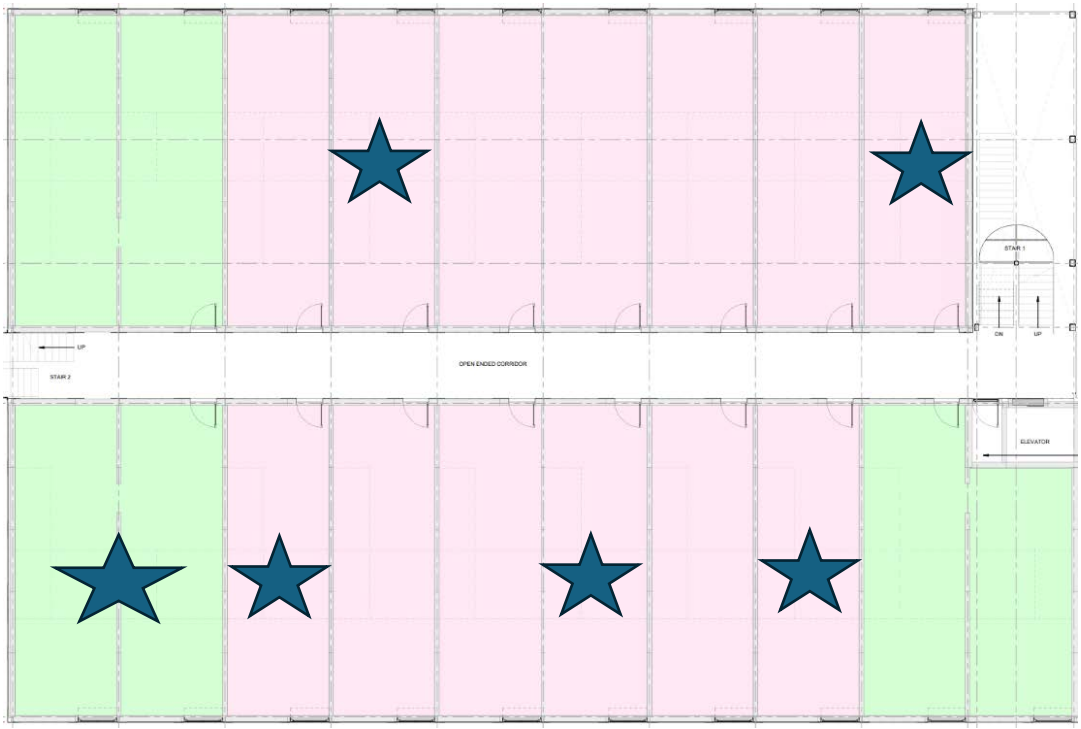
"Building 2":

First Floor

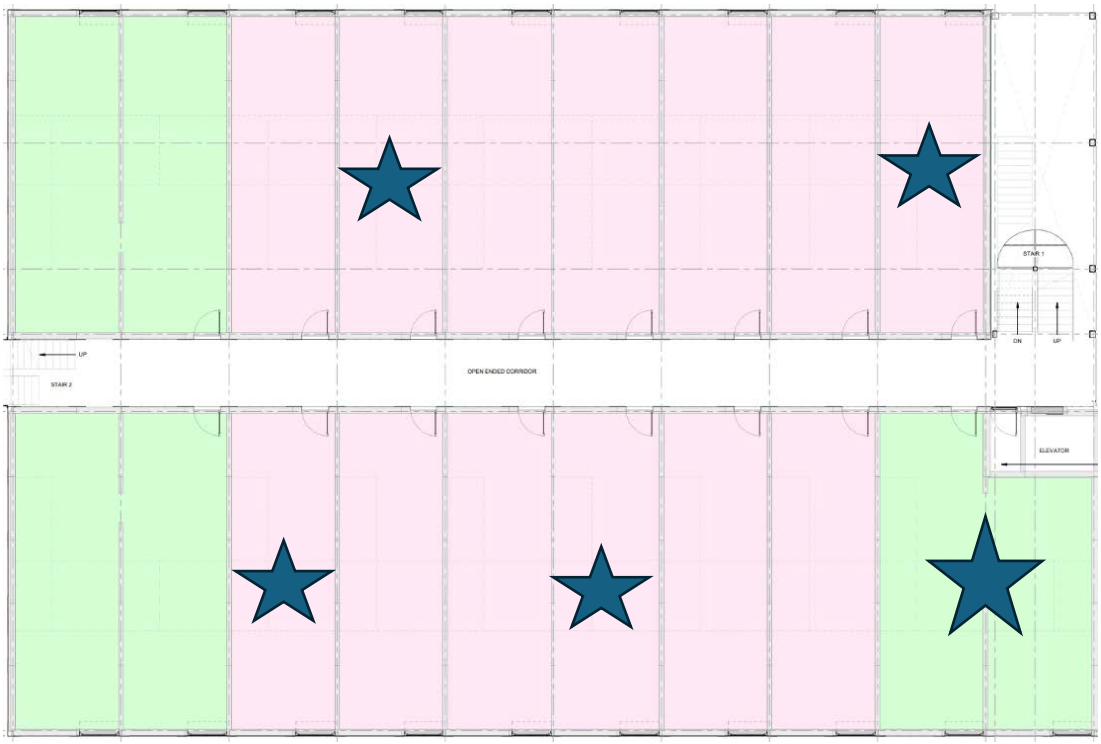


[2] Designated units to be provided as part of final plan which will be submitted prior to placing the building in service.

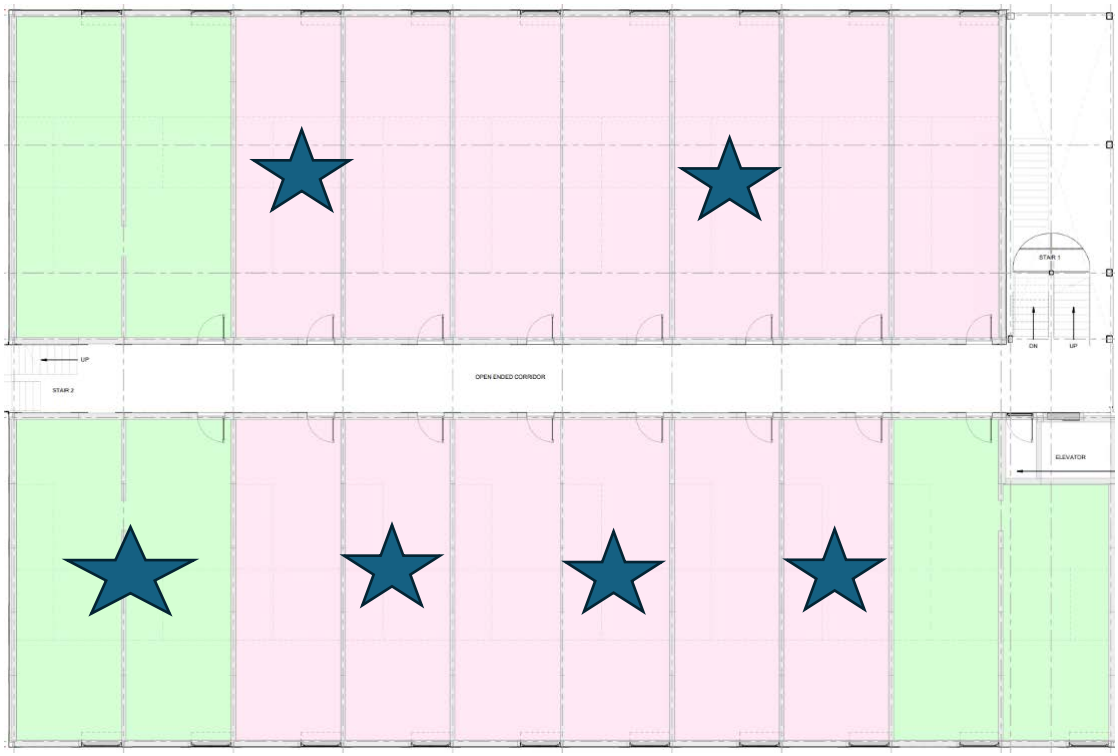
Second Floor



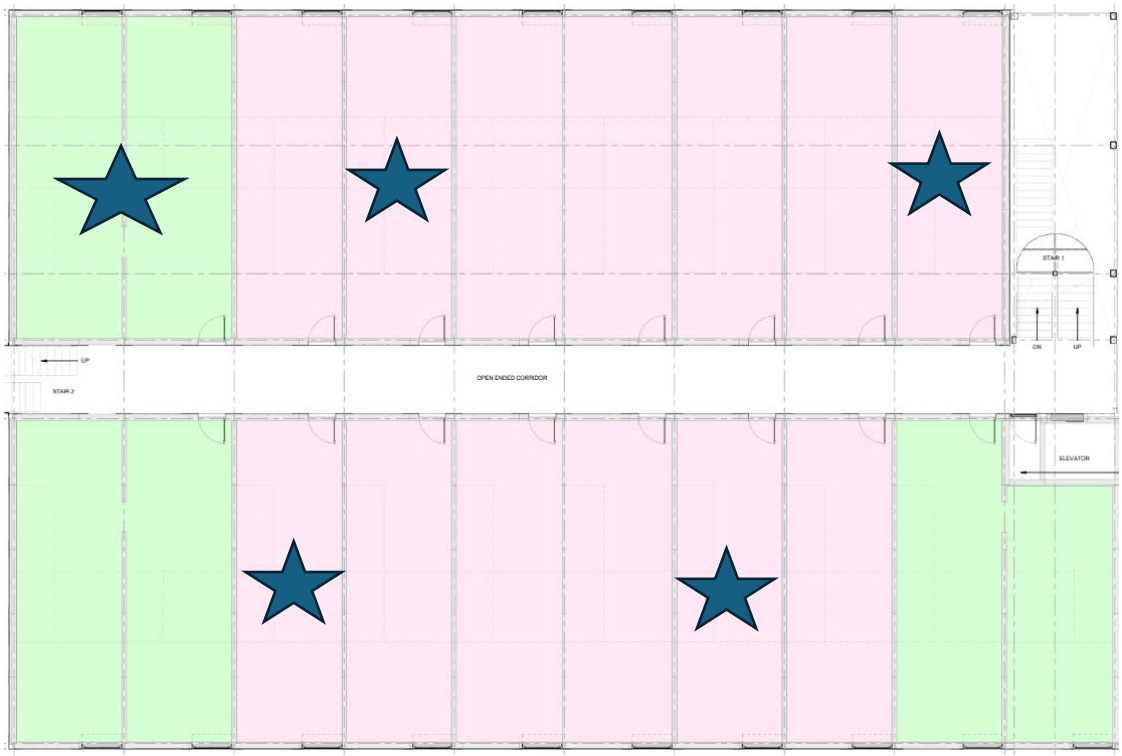
Third Floor



Fourth Floor

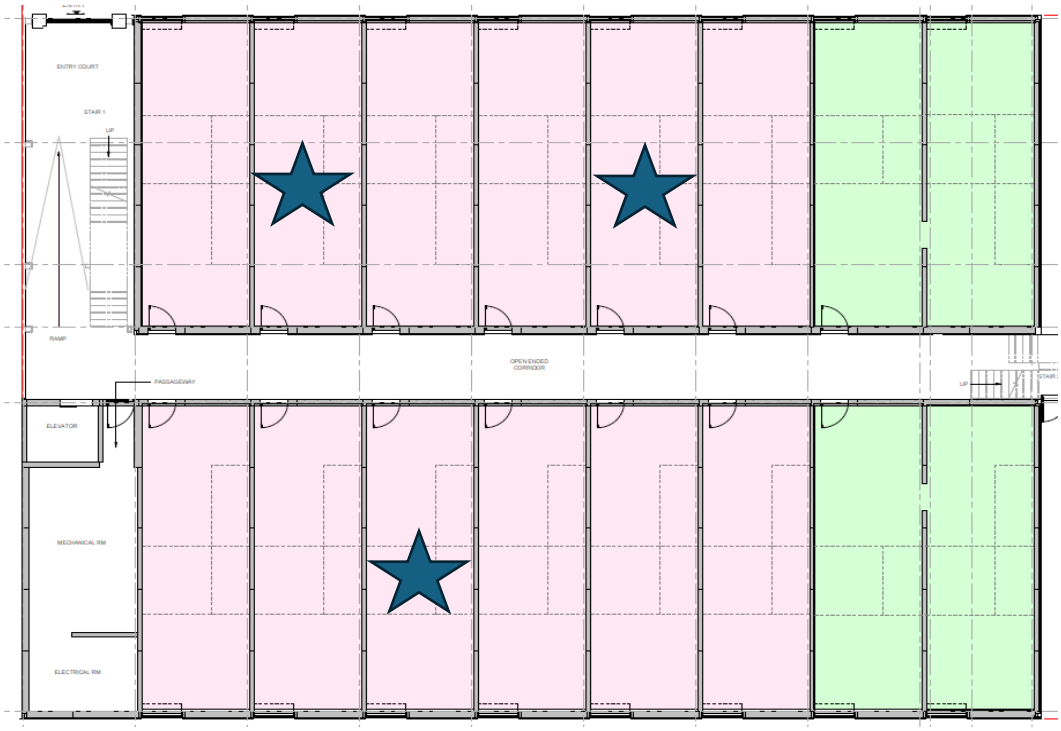


Fifth Floor

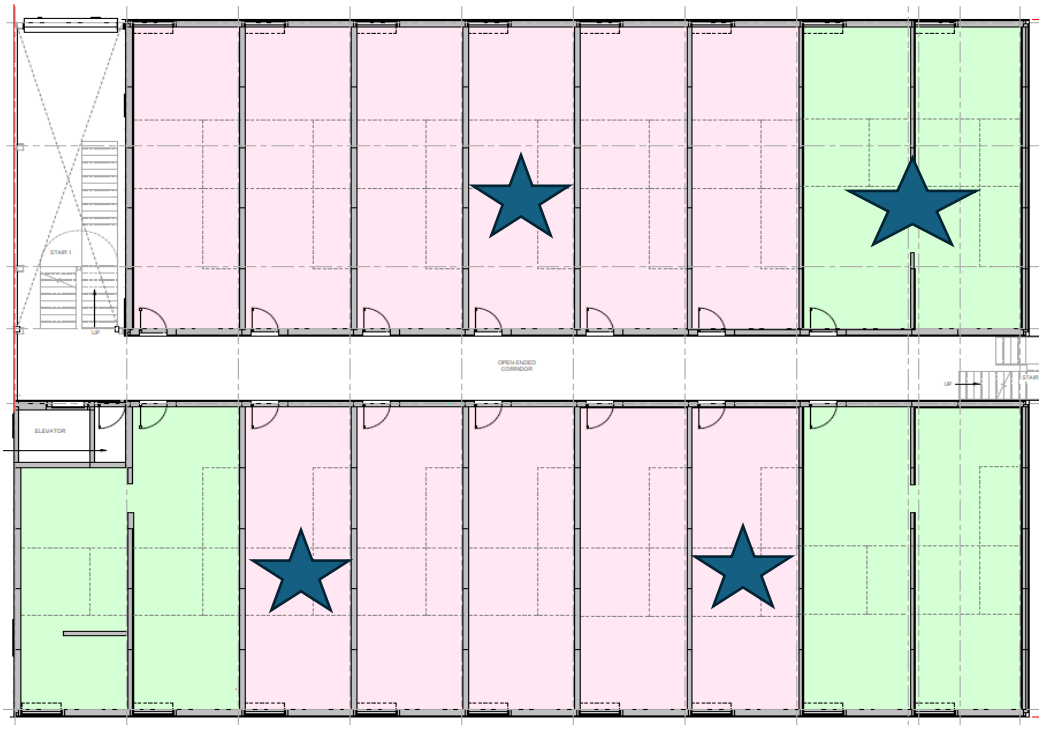


“Building 1”:

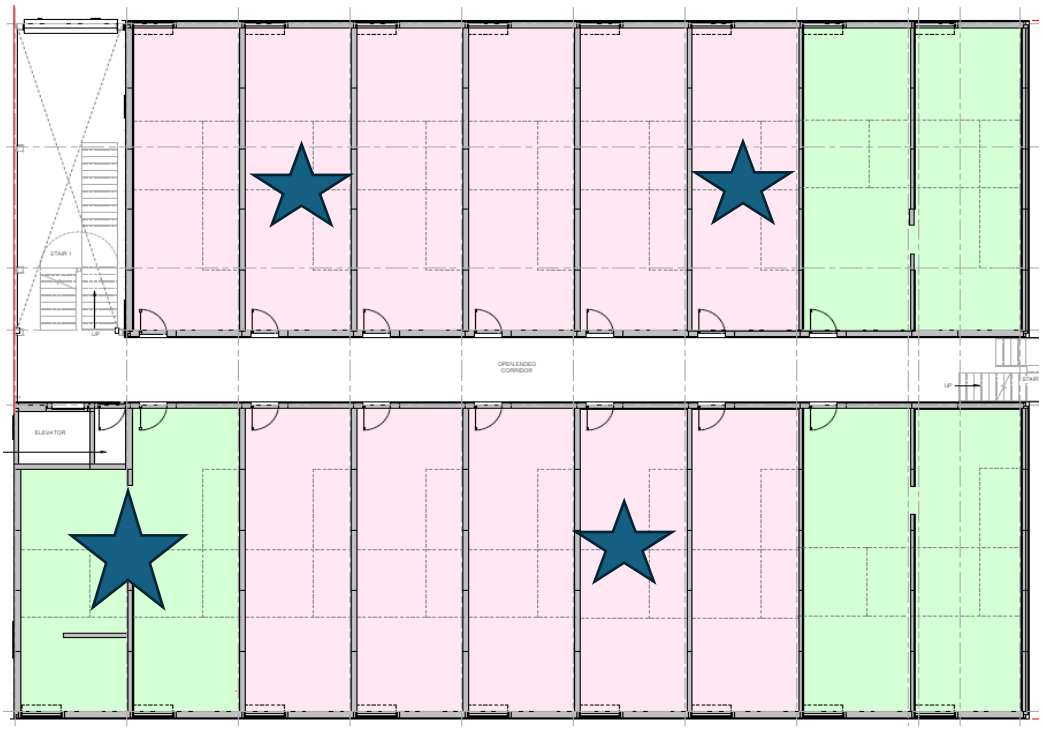
First Floor



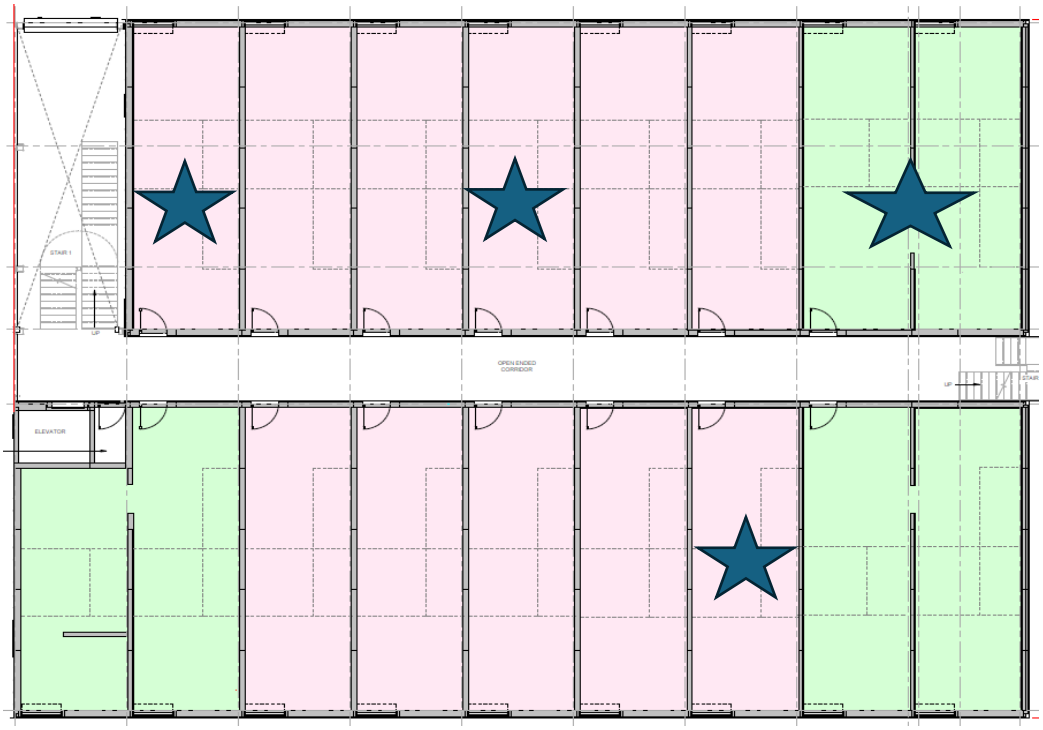
Second Floor



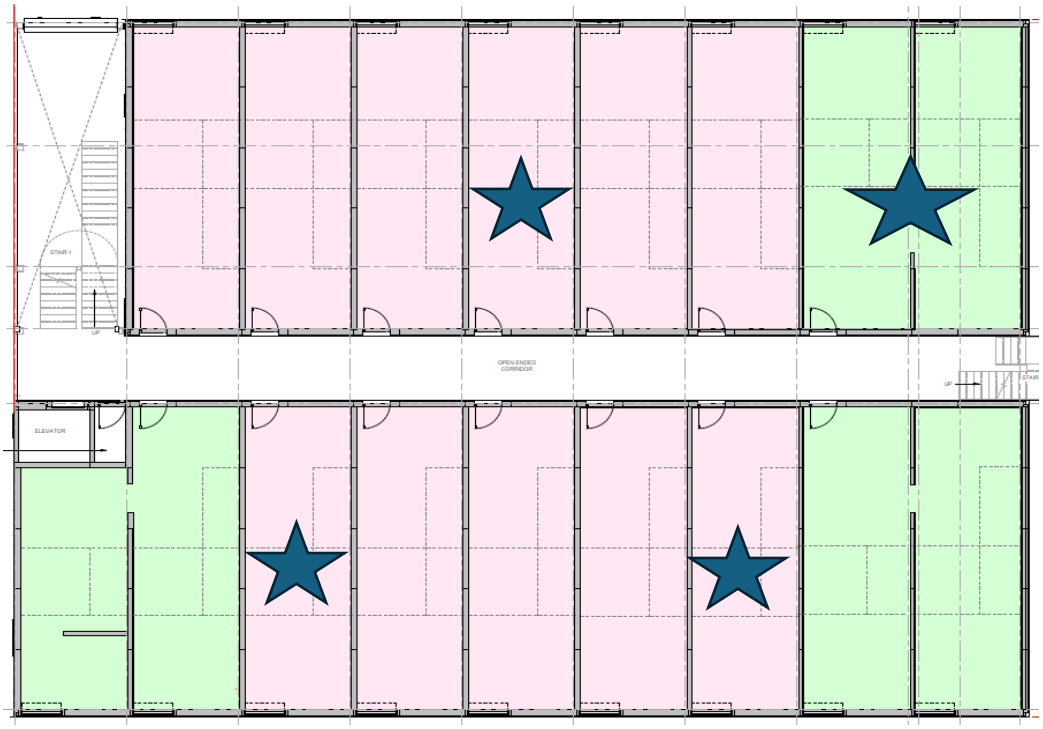
Third Floor



Fourth Floor



Fifth Floor



SCHEDULE B
MINIMUM SPECIFICATIONS FOR HOUSING OPPORTUNITY UNITS

Foundation

- Grade Beam Foundation
- Frost Walls – poured concrete w/waterproofing

Exterior

- Framing and Sheathing – as per building code
- Exterior Wall – 2" x 6"
- Low slope membrane roof with tapered insulation
- Foundation plantings (as specified)
- HPL rainscreen panel system
- Integral rain water leader system from roof drain area
- Exterior weather-proof electrical outlet(s)
- Triple glazed, low E, argon filled thermally broken composite windows
- Asphalt driveways and walks or equivalent (as specified)
- Insulation as per building code; Exterior walls R21; Roof R49

Interior

- Vinyl plank
- Energy efficient heating system
- Centralized high efficiency hot water heater
- Direct wire smoke detectors
- Telecom connections
- In-unit laundry
- Ground fault circuits in kitchen, bathrooms
- Flush panel doors

Kitchens

- Vinyl plank
- Laminate, HPL, or traditional wood cabinets
- Refrigerator, two induction cooktop burners, countertop smart oven
- Countertop dishwasher
- Solid surface or similar countertops
- Stainless steel sink with single lever faucet and pull down sprayer

Bathrooms

- Vanity mirrors
- Solid composite shower pan with HPL enclosure
- Solid surface or similar countertops
- Water-resistant LVP flooring

SCHEDULE C
DEFINITIONS AND ELEMENTS OF ANNUAL FAMILY INCOME

1. Annual income shall be calculated with reference to 24 C.F.R. § 5.609, and includes, but is not limited to, the following:

   a. The full amount, before any payroll deductions, of wages and salaries, overtime pay, commissions, fees, tips, bonuses and other compensation for personal services;

   b. The net income from operations of a business or profession, before any capital expenditures but including any allowance for depreciation expense. Any withdrawal of cash or assets from the operation of a business or profession will be included in income, except to the extent the withdrawal is reimbursement of cash or assets invested in the operation by the family;

   c. Interest, dividends, and other net income of any kind from real or personal property, before any capital expenditures but including any allowance for depreciation expense. Any withdrawal of cash or assets from an investment will be included in income, except to the extent the withdrawal is reimbursement of cash or assets invested by the family. Where the family has net family assets in excess of $5,000, annual income shall include the greater of the actual income derived from all net family assets or a percentage of the value of such assets based on the current passbook savings rate, as determined by HUD;

   d. The full amount of periodic payments received from social security, annuities, insurance policies, retirement funds, pensions, disability or death benefits, or other similar types of periodic payments; including a lump-sum amount or prospective monthly amounts for the delayed start of a periodic amount, except as permitted in 2.q, below;

   e. Payments in lieu of earnings, such as unemployment and disability compensation, worker's compensation, and severance pay, except as permitted in 2.c, below;

   f. Welfare assistance payments.

      (1) Welfare assistance payments made under the Temporary Assistance for Needy Families (TANF) program are included in annual income only to the extent such payments:

         i. Qualify as assistance under the TANF program definition at 45 C.F.R § 260.31; and

         ii. Are not otherwise excluded under Section 2, below

      (2) If the welfare assistance payments include an amount specifically designated for shelter and utilities that is subject to adjustment by the welfare assistance agency in accordance with the actual cost of shelter and utilities, the amount of welfare assistance to be included as income consists of the following:

i. The amount of the allowance or grant exclusive of the amounts designated for shelter or utilities, plus

ii. The maximum amount that the welfare assistance agency could in fact allow the family for shelter and utilities. If the family's welfare assistance is ratably reduced from the standard of need by applying a percentage, the amount calculated under this paragraph shall be the amount resulting from one application of the percentage:

g. Periodic and determinable allowances, such as alimony and child support payments, and regular contributions or gifts received from organizations or persons not residing with the Applicant (e.g., periodic gifts from family members, churches, or other sponsored group, even if the gifts are designated as rental or other assistance);

h. All regular pay, special pay and allowances of a member of the Armed Forces, except combat pay as in 2.g, below;

i. For section 8 programs only and as provided in 24 C.F.R § 5.612, any financial assistance, in excess of amounts received for tuition and any other required fees and charges, that an individual receives under the Higher Education Act of 1965 (20 U.S.C. § 1001 et seq.), from private sources, or from an institution of higher education (as defined under the Higher Education Act of 1965 (20 U.S.C. § 1002)), shall be considered income to that individual, except that financial assistance described in this paragraph is not considered annual income for persons over the age of 23 with dependent children. For purposes of this paragraph, "financial assistance" does not include loan proceeds for the purpose of determining income.

2. Excluded from the definition of family annual income are the following:

a. Income from employment of children under the age of 18 (including foster children);

b. Payments received for the care of foster children or foster adults;

c. Lump-sum additions to family assets, such as inheritances, insurance payments (including payments under health and accident insurance and worker's compensation), capital gains and settlement for personal or property losses, except as proved in 1.e, above;

d. Amounts received by the family that are specifically for, or in reimbursement of, the cost of medical expenses for any family member;

e. Income of a live-in aide, as defined in 24 C.F.R. § 5.403;

f. Subject to 1.i, above, the full amount of student financial assistance paid directly to the student or to the educational institution;

g. The special pay to a family member serving in the Armed Forces who is exposed to hostile fire;

h. Amounts received under training programs funded by HUD;

i. Amounts received by a person with a disability that are disregarded for a limited time for purposes of Supplemental Security Income eligibility and benefits because they are set aside for use under a Plan to Attain Self–Sufficiency (PASS);

j. Amounts received by a participant in other publicly assisted programs which are specifically for or in reimbursement of out-of-pocket expenses incurred (special equipment, clothing, transportation, child care, etc.) and which are made solely to allow participation in a specific program;

k. Amounts received under a resident service stipend. A resident service stipend is a modest amount (not to exceed $200 per month) received by a resident for performing a service for the PHA or owner, on a part-time basis, that enhances the quality of life in the development. Such services may include, but are not limited to, fire patrol, hall monitoring, lawn maintenance, resident initiatives coordination, and serving as a member of the PHA's governing board. No resident may receive more than one such stipend during the same period of time;

l. Incremental earnings and benefits resulting to any family member from participation in qualifying State or local employment training programs (including training programs not affiliated with a local government) and training of a family member as resident management staff. Amounts excluded by this provision must be received under employment training programs with clearly defined goals and objectives, and are excluded only for the period during which the family member participates in the employment training program;

m. Temporary, nonrecurring or sporadic income (including gifts that are not regular or periodic);

n. Reparation payments paid by a foreign government pursuant to claims filed under the laws of that government by persons who were persecuted during the Nazi era;

o. Earnings in excess of $480 for each full-time student 18 years old or older (excluding the head of household and spouse);

p. Adoption assistance payments in excess of $480 per adopted child;

q. Deferred periodic amounts from supplemental security income and social security benefits that are received in a lump sum amount or in prospective monthly amounts, or any deferred Department of Veterans Affairs disability

benefits that are received in a lump sum amount or in prospective monthly amounts;

r. Amounts received by the family in the form of refunds or rebates under State or local law for property taxes paid on the dwelling unit;

s. Amounts paid by a State agency to a family with a member who has a developmental disability and is living at home to offset the cost of services and equipment needed to keep the developmentally disabled family member at home; and

t. Amounts specifically excluded by any other Federal statute from consideration as income for purposes of determining eligibility or benefits under a category of assistance programs that includes assistance under any program to which the exclusions set forth in 24 C.F.R § 5.609(c) apply. *See* Exhibit 5-1 at pp. 4-5 to HUD Handbook 4350.3: Occupancy Requirements of Subsidized Multifamily Housing Programs, revised as of November 2013, for a listing of income sources that apply for the exclusion.

3. Net family assets for purposes of imputing annual income include the following:[3]

a. Cash held in savings and checking accounts, safety deposit boxes, homes, etc.;

b. The current market value of a trust for which any household member has an interest;

c. The current market value of any rental property or other capital investments, less (a) any unpaid balance on any loans secured by the property and (b) reasonable costs that would be incurred in selling the asset (e.g., penalties, broker fees, etc.);

d. The current market value of all stocks, bonds, treasury bills, certificates of deposit, mutual funds, and money market accounts;

e. The current value of any individual retirement, 401K or Keogh account;

f. The cash value of a retirement or pension fund which the family member can withdraw without terminating employment or retiring;

g. Periodic or lump-sum receipts from pension and retirement funds at retirement, termination of employment or withdrawal;

h. The cash value of life insurance policies available to the individual before death;

[3] What is included and excluded from Net Family Assets is derived with reference to Exhibit 5-2 to HUD Handbook 4350.3: Occupancy Requirements of Subsidized Multifamily Housing Programs, revised as of November 2013.

i. Any lump-sum receipts not otherwise included in income (*i.e.*, inheritances, capital gains, one-time lottery winnings, victim's restitution and settlement on insurance claims);

j. The current market value of any personal property held for investment (*i.e.*, gems, jewelry, coin collections); and

k. Interest payments on a mortgage or deed of trust held by an Applicant.

4. Net family assets do not include the following:

a. Necessary personal property (clothing, furniture, cars, etc.);

b. Interest in Indian Trust Land;

c. Equity in a cooperative unit in which the family lives;

d. Term life insurance policies;

e. Assets which are part of an active business, not including rental properties;

f. Assets that are not effectively owned by the Applicant because, although held in the Applicant's name, the assets and any income accrue to the benefit of someone else who is not a member of the family and the other person is responsible for income taxes incurred; and

g. Assets that are not accessible to the Applicant and provide no income to the Applicant.

SCHEDULE D
DOCUMENTATION OF INCOME

The following documents shall be provided, where applicable, to the Administrator to determine income eligibility:

1. Employment Income.

Verification forms must request the employer to specify the frequency of pay, the effective date of the last pay increase, and the probability and effective date of any increase during the next twelve (12) months. Acceptable forms of verification (of which at least one must be included in the Applicant file) include:

(a) An employment verification form completed by the employer.

(b) Check stubs or earnings statement showing Applicant's gross pay per pay period and frequency of pay.

(c) W-2 forms if the Applicant has had the same job for at least two years and pay increases can be accurately projected.

(d) Notarized statements, affidavits or income tax returns signed by the Applicant describing self-employment and amount of income, or income from tips and other gratuities.

2. Social Security, Pensions, Supplementary Security Income, Disability Income.

(a) Benefit verification form completed by agency providing the benefits.

(b) Award or benefit notification letters prepared and signed by the authorizing agency. (Since checks or bank deposit slips show only net amounts remaining after deducting SSI or Medicare, they may be used only when award letter cannot be obtained.)

(c) If a local Social Security Administration ("SSA") office refuses to provide written verification, the Administrator should meet with the SSA office supervisor. If the supervisor refuses to complete the verification forms in a timely manner, the Administrator may accept a check or automatic deposit slip as interim verification of Social Security or SSI benefits as long as any Medicare or state health insurance withholdings are included in the annual income.

3. Unemployment Compensation.

(a) Verification form completed by the unemployment compensation agency.

(b) Records from unemployment office stating payment dates and amounts.

4. Government Assistance.

(a) All Government Assistance Programs. Agency's written statements as to type and amount of government assistance the Applicant is now receiving, including but not limited to assistance under the federal Section 8 program, and any changes in such assistance expected during the next twelve (12) months.

(b) Additional Information for "As-paid" Programs: Agency's written schedule or statement that describes how the "as-paid" system works, the maximum amount the Applicant may receive for shelter and utilities and, if applicable, any factors used to ratably reduce the Applicant's grant.

5. Alimony or Child Support Payments.

(a) Copy of a separation or settlement agreement or a divorce decree stating amount and type of support and payment schedules.

(b) A letter from the person paying the support.

(c) Copy of latest check. The date, amount, and number of the check must be documented.

(d) Applicant's notarized statement or affidavit of amount received or that support payments are not being received and the likelihood of support payments being received in the future.

6. Net Income from a Business.

The following documents show income for the prior years. The Administrator must consult with Applicant and use this data to estimate income for the next twelve (12) months.

(a) IRS Tax Return, Form 1040, including any:
Schedule C (Small Business)
Schedule E (Rental Property Income)
Schedule F (Farm Income)

(b) An accountant's calculation of depreciation expense, computed using straight-line depreciation rules. (Required when accelerated depreciation was used on the tax return or financial statement.)

(c) Audited or unaudited financial statement(s) of the business.

(d) A copy of a recent loan application listing income derived from the business during the previous twelve (12) months.

(e) Applicant's notarized statement or affidavit as to net income realized from the business during previous years.

7. Recurring Gifts.

(a) Notarized statement or affidavit signed by the person providing the assistance. Must give the purpose, dates and value of gifts.

(b) Applicant's notarized statement or affidavit that provides the information above.

8. Scholarships, Grants, and Veterans Administration Benefits for Education.

(a) Benefactor's written confirmation of amount of assistance, and educational institution's written confirmation of expected cost of the student's tuition, fees, books and equipment for the next twelve (12) months. To the extent the amount of assistance received is less than or equal to actual educational costs, the assistance payments will be excluded from the Applicant's gross income. Any excess will be included in income.

(b) Copies of latest benefit checks, if benefits are paid directly to student. Copies of canceled check or receipts for tuition, fees, books, and equipment, if such income and expenses are not expected to change for the next twelve (12) months.

(c) Lease and receipts or bills for rent and utility costs paid by students living away from home.

9. Family Assets Currently Held.

For non-liquid assets, collect enough information to determine the current cash value (i.e., the net amount the Applicant would receive if the asset were converted to cash).

(a) Verification forms, letters, or documents from a financial institution, broker, etc.

(b) Passbooks, checking account statements, certificates of deposit, bonds, or financial statements completed by a financial institution or broker.

(c) Quotes from a stock broker or realty agent as to net amount Applicant would receive if Applicant liquidated securities or real estate.

(d) Real estate tax statements if tax authority uses approximate market value.

(e) Copies of closing documents showing the selling price, the distribution of the sales proceeds and the net amount to the borrower.

(f) Appraisals of personal property held as an investment.

(g) Applicant's notarized statements or signed affidavits describing assets or verifying the amount of cash held at the Applicant's home or in safe deposit boxes.

10. Assets Disposed of for Less Than Fair Market Value ("FMV") During Two Years Preceding Lease Begin Date.

(a) Applicant's certification as to whether it has disposed of assets for less than FMV during the two (2) years preceding the Lease Begin Date.

(b) If the Applicant states that it did dispose of assets for less than FMV, then a written statement by the Applicant must include the following:

(i) A list of all assets disposed of for less than FMV;

(ii) The date Applicant disposed of the assets;

(iii) The amount the Applicant received; and

(iv) The market value to the asset(s) at the time of disposition.

11. Savings Account Interest Income and Dividends.

(a) Account statements, passbooks, certificates of deposit, etc., if they show enough information and are signed by the financial institution.

(b) Broker's quarterly statements showing value of stocks or bonds and the earnings credited the Applicant.

(c) If an IRS Form 1099 is accepted from the financial institution for prior year earnings, the Administrator must adjust the information to project earnings expected for the next twelve (12) months.

12. Rental Income from Property Owned by Applicant.

The following, adjusted for changes expected during the next twelve (12) months, may be used:

(a) IRS Form 1040 with Schedule E (Rental Income).

(b) Copies of latest rent checks, leases, or utility bills.

(c) Documentation of Applicant's income and expenses in renting the property (tax statements, insurance premiums, receipts for reasonable maintenance and utilities, bank statements or amortization schedule showing monthly interest

expense)(d) Lessee's written statement identifying monthly payments due the Applicant and Applicant's affidavit as to net income realized.

13. Full-Time Student Status.

(a) Written verification from the registrar's office or appropriate school official.

(b) School records indicating enrollment for sufficient number of credits to be considered a full-time student by the school.

SCHEDULE E
SAMPLE LEASE RIDER FOR HOUSING OPPORTUNITY UNITS

2024 RIDER TO THE LEASE AGREEMENT
FOR HOUSING OPPORTUNITY UNITS (80%)*

1. TERM AND PROVISIONS

The annexed Lease Agreement for an affordable residential rental unit is for a term of at least (1) year.

This unit is being rented as an "affordable housing unit" as defined by Section 8-30g of the Connecticut General Statutes, and is to be rented at or below the lesser of 80 percent of the area median income for the Town of Trumbull, Connecticut, or 80 percent of the State Median Income as determined by the U.S. Department of Housing and Urban Development ("HUD"). (Rates are determined on an annual basis.) This development has been approved by the Town of Trumbull based in part on the condition that a defined percentage of residential rental units will be rented as affordable housing apartment homes. The Landlord is required by law to strictly enforce these restrictions.

2. INCOME LIMITS

Prior to the commencement of the lease term, resident must provide Landlord with a copy of his or her most recently filed Federal Income Tax Return (Form 1040 or 1040A) or any other proof requested or allowed by law for the purpose of verifying income. Resident must certify that such proof is true and accurate and that the total annual income of all the members of Resident's family who will occupy the unit subject to this lease does not exceed the amount set forth below which applies to the number of persons in Resident's family who will be residing in the subject unit:

FAMILY SIZE:

1	2	3	4
$_____	$_____	$_____	$_____

3. MAXIMUM RENTS

Notwithstanding anything in the Lease Agreement to the contrary, the total rent for the affordable housing residential rental units shall not exceed the amounts set forth below:

* A similar Rider will be used for the 60% affordable income apartments.

	MAXIMUM RENT	ACTUAL RENT (Less UA)
1 bedroom:		
Annual	$_____	
Monthly	$_____	$_____

4. UTILITY ALLOWANCE

The monthly rent for an affordable rental unit includes a monthly allowance for utilities, which are heat, hot water, electricity, trash but excluding telephone and cable television. Heat and utility costs are calculated by a reasonable estimate.

5. CERTIFICATION OF INCOME

Prospective residents will be required to fill out an application form containing detailed instructions for calculating their family income and allowing the Administrator to verify the information. Applicants will be required to sign a verification of their review and understanding of the income maximums, the penalties for false information, and the applicable procedures in the event that their income increases at some future time above the allowable maximum. Applicants will also be required to provide appropriate documentation to verify their income. Incomes of resident(s) in each affordable unit will be re-verified annually at the time of the lease renewal.

This Agreement shall terminate and the Resident may be evicted for failure to qualify, if the Resident has falsely certified family income or family composition. Such false certification constitutes material noncompliance under the Lease Agreement. Resident is obligated to provide such subsequent re-certification of income as the Landlord shall require.

The Town of Trumbull will be entitled to inspect the income statements of the residents of the affordable units upon which the Administrator bases the certification.

6. CHANGE OF INCOME

In the event that an affordable unit resident's income changes so as to exceed the qualifying maximum or if the resident otherwise becomes disqualified, such resident must provide notice to the Landlord's representative within seven (7) days of the disqualification. When a resident becomes disqualified, the Administrator shall require the Resident to vacate the Housing Opportunity Unit within sixty (60) days. The Administrator (or owner, if the Administrator is not the owner) in his sole discretion may elect to move the Resident to a market rate apartment unit if the Resident satisfies the Administrator's (or owner's) normal criteria for such unit.

7. LANDLORD'S RIGHT TO INCREASE RENT

In the event that the Resident's residence is no longer being subsidized under Section 8 of the United States Housing Act of 1937, the Landlord's right to increase the monthly rent shall be conditioned upon the Landlord's furnishing Resident with a notice at least sixty (60) days prior to such increase.

8. LANDLORD'S RIGHT TO REASSIGN PREMISES

Whereas the monthly rent for this unit is calculated on the basis of the number of bedrooms in the unit, Resident may, during the term of the Lease, be reassigned to different premises if an increase or decrease in the number of Resident's family members residing in the unit warrants such a change under applicable statutes and regulations. In the event of such reassignment, Resident's monthly rent shall be based upon the size of the unit occupied for the remaining Lease term.

9. NO SUBLETTING OR ASSIGNMENT

Subletting of affordable units shall be prohibited. In addition, the affordable unit shall be occupied only as the resident's principal residence.

10. RESTRICTIONS ON USE

No portion of the unit may at any time during the term of this Agreement be used on a transient basis, for example, as a hotel, motel, dormitory, fraternity house, sorority house, rooming house, hospital, nursing home, sanitarium, or rest home.

11. ACCESS TO COMMON FACILITIES

Residents shall be given equal access with all other Residents, at an equal charge if any, to all on-site and all off-site common facilities of the Community. The Landlord shall ensure that handicapped or disabled individuals are afforded equal access to all facilities of the Community.

12. INTERPRETATION

Unless otherwise indicated, the terms used herein shall have the same meaning ascribed to them in the main body of this Lease Agreement. This rider shall control any conflict between terms herein and the Lease Agreement.

13. PROCEDURES FOR INITIAL DESIGNATION AND LEASING OF AFFORDABLE UNITS

Attached to this Lease Agreement is the developer's initial designation of the units that shall be rented as affordable units. These units shall remain vacant until a qualified family is found.

In the event that the development is fully leased and the development contains the minimum number of affordable units containing income-qualified families, if one of the families occupying these units vacates voluntarily or otherwise, this unit will be kept vacant until another qualified family is found.

RIDER TO THE LEASE AGREEMENT
FOR HOUSING OPPORTUNITY UNITS

IN WITNESS WHEREOF, the parties hereto have executed this Rider to the Lease Agreement on the _____ day of _____ Year _____.

RESIDENT

_____

_____

_____
PRINT NAME

_____
PRINT NAME

_____
DATE

Vessel Technologies Inc.

_____
SIGNATURE MANAGEMENT REPRESENTATIVE

SCHEDULE F
DEED RESTRICTION FOR 8-30g Units

"This development is a set aside development as defined in section 8-30g of the Connecticut General Statutes and in accordance with the applicable regulations for state agencies that were in effect on the date of the original application for initial local approval _____(insert appropriate date), containing affordable housing dwelling units, and is therefore subject to limitations on the maximum annual income of the household that may rent the designated affordable housing dwelling units, and on the maximum rental that may be charged for such affordable housing dwelling units. These limitations shall be strictly enforced, and may be enforced by the zoning enforcement authority of [the municipality] against the record owner of the development or the person identified in the affordability plan as responsible for the administration of these limitations.

For the duration of this covenant or restriction, no less than fifteen percent (15%) of the dwelling units in this development shall be rented to persons and families whose annual income is less than or equal to eighty percent (80%) of the median income as defined in subsection 8-30g-1(10) of the Regulations of Connecticut State Agencies, and such units may be rented only at a rental equal to or less than the rental determined using the formula for maximum monthly rental amount stated in section 8-30g-8(d) of the Regulations of Connecticut State Agencies. In addition, no less than fifteen percent (15%) of the dwelling units shall be rented to persons and families whose annual income is less than or equal to 60 percent (60%) of the median income as defined in subsection 8-30g-1(10) of the Regulations of Connecticut State Agencies, and such units may be rented only at a rental equal to or less than the rental determined using the formula for maximum monthly rental amount stated in section 8-30g-8(e) of the Regulations of Connecticut State Agencies."

SCHEDULE G
AFFIRMATIVE FAIR HOUSING MARKETING REQUIREMENTS

Vessel West Hartford
29 Highland Street
West Hartford Connecticut

Housing Affordability Plan

Submission Draft
October 2025

Submitted by Vessel RE Holdings, LLC
and Vessel Technologies Inc.

PREPARED BY:
Vessel Technologies, Inc.
46 West 55th Street
NY, NY 10019

Introduction

Vessel RE Holdings, LLC and Vessel Technologies, Inc. (collectively, "Vessel") submit this Housing Affordability Plan for the 120 unit multi-family residential rental community known as "Vessel West Hartford," located on on property known as 29 Highland Street (Parcel ID: 2696 1 29 0001) in West Hartford, Connecticut (the "Community"). See **Exhibit A**, attached hereto.

Under this plan, thirty percent (30%) of the residential rental units – or thirty-six (36) units – at the Community will meet the criteria for an "affordable housing development" as defined in Connecticut General Statutes ("C.G.S.") § 8-30g ("Housing Opportunity Units") or, more specifically, as a "set-aside development" under C.G.S. § 8-30g(a)(6). C.G.S. § 8-30g(a)(g) requires that fifteen percent (15%) of the Housing Opportunity Units be affordable for 40 years to families earning eighty percent (80%) or less of the area or State median income, whichever is less, and that fifteen percent (15%) be affordable to families earning sixty percent (60%) or less of the area or State median income, whichever is less. This Housing Affordability Plan ("Plan"), which is proposed as a condition of site plan approval by the West Hartford Town Planner, satisfies these requirements and describes how the affordable housing apartment homes will be administered.

I. Apartment Homes Designated as Housing Opportunity Units.

Thirty percent (30%) of the residential rental units in the Community, or thirty-six (36) units, will be designated as Housing Opportunity Units pursuant to C.G.S. § 8-30g. The specific apartments initially designated as Housing Opportunity Units are shown on reduced floor plans included in Schedule A of this Plan.

II. Forty (40) Year Affordability Period.

The Housing Opportunity Units in the Community shall be designated as affordable or workforce housing units for at least forty (40) years after the initial occupation of the Community. The 40 years shall be calculated for each Housing Opportunity Unit beginning on the date that the certificate of occupancy is issued for the Housing Opportunity Unit.

III. Pro-Rata Construction and Dispersion.

The Housing Opportunity Units shall be built and offered for rent on a *pro rata* basis as construction proceeds in accordance with the construction. It is the intent of this Plan that one (1) Housing Opportunity Unit will be built and offered for rental within the time that three (3) market-rate units are completed and offered for rental.

IV. Nature of Construction of Housing Opportunity Units.

The Housing Opportunity Units shall be constructed in substantial conformance with the site plans and floor plans approved in the zoning permits for the Community, as may be modified based on the requirements of the West Hartford Building Official or other Town staff in signing off on administrative permits or approvals. *See also* Schedule B of this Plan.

V. Entity Responsible for Administration and Compliance.

This Affordability Plan will be administered by Vessel RE Holdings LLC, an entity that is not in bad standing with CHFA or CT DOH, (the "Administrator"). The owner hereby represents that the Administrator and its staff have the experience necessary to administer this Plan. The principal point of contact under this Plan shall be Josh Levy. Contact information for the principal point of contact shall be provided to the Town of West Hartford and the Planning and Zoning Department prior to the issuance of a Certificate of Occupancy.

Upon any changes to the principal point of contact or the Administrator, the owner will provide notice of such change, prior to it taking effect, to the Town of West Hartford and the current residents.

If at any time, the Administrator or principal point of contact is changed, such change will only be to parties that have specific prior experience in administration and compliance monitoring. The Administrator shall either (i) be certified by the National Affordable Housing Management Association or an equivalent certification as an Affordable Housing Professional, or (ii) has at least 5 years of Affordable Housing management experience. Owner shall provide updated credentials for the new Administrator to the Town of West Hartford prior to such party taking over as the Administrator or principal point of contact.

The Administrator shall submit annually a written status report demonstrating compliance with affordability and occupancy rules and approval conditions. The Administrator shall provide the Town of West Hartford with evidence that each Housing Opportunity Unit has been qualified and is inhabited by a qualified individual pursuant to the requirements of C.G.S. § 8-30g.

The role of Administrator may be transferred or assigned to another entity, provided that such entity is certified by the National Affordable Housing Management Association or an equivalent certification as an Affordable Housing Professional or has at least 5 years of Affordable Housing management experience. In the event of any assignment of the role of Administrator, the owner will provide prior written notice to the Planning and Zoning Department and Town of West Hartford.

The owner will ensure that the residents of the buildings are provided with name and contact information of the Affordable Housing Administrator (company or individual) along with the name and contact information for the person or company in charge of the

management and maintenance of the property. If the person in charge of property management and maintenance is different than the emergency contact, then the contact information for the building's emergency contact shall also be provided. If there is a change to any of these entities, then notice shall be provided to existing tenants as well as to the town which shall include the updated contact information for the new person or entity assuming the applicable role.

VI. Notice of Initial Rental of Housing Opportunity Units.

Except as provided in Section X of this Plan and subject to Section VIII, during the initial lease-up of the Community, the Administrator shall provide notice of the availability for rental of each Housing Opportunity Unit. Such notice shall be provided, at a minimum, by advertising at least two times in a newspaper of general circulation in the Town of West Hartford. The Administrator shall also provide such notice to the Commission and to the Clerk of the Town of West Hartford. Such notice shall include a description of the available Housing Opportunity Unit(s), the eligibility criteria for potential residents, the maximum rental price (as hereinafter defined), and the availability of application forms and additional information. All such notices shall comply with the federal Fair Housing Act, 42 U.S.C. §§ 3601 *et seq*. and the Connecticut Fair Housing Act, C.G.S. §§ 46a-64b *et seq*. (together, the "Fair Housing Acts").

VII. Resident Eligibility.

Eligibility of applicants to lease a Housing Opportunity Unit in the Community shall be determined by the Administrator in accordance with this Plan and C.G.S. § 8-30g, as amended.

If an existing resident is determined to be ineligible in the future, the applicant will take all reasonable measures to either find the tenant another unit in the building that is not restricted or transfer the affordability restriction to another vacant unit. Provided, however, that the owner and/or the Administrator will not take any action that is not permitted pursuant to C.G.S. § 8-30g, as amended, or would result in the property being out of compliance. If there are no vacant units at the time the applicant becomes over-income, then the owner and/or the Administration shall comply with the requirements of C.G.S. § 8-30g, as amended.

VIII. Affirmative Fair Housing Marketing Plan.

The rental of both Housing Opportunity Units and market-rate units in the Community shall be publicized, using State regulations (See Schedule G) for affirmative fair housing marketing programs as guidelines. The purpose of such efforts shall be to apprise residents of municipalities of relatively high concentrations of minority populations of the availability of such units. The Administrator shall have responsibility for compliance with this section. Notices of initial availability of units shall be provided, at a minimum, by advertising at least two times in a newspaper of general circulation in such identified municipalities. The Administrator shall also provide such notices to the Commission and the local or regional housing authority. Such

notices shall include a description of the available Housing Opportunity Unit(s), the eligibility criteria for tenants, and the availability of application forms and additional information.

Using the above-referenced State regulations as guidelines, dissemination of information about available Housing Opportunity Units and market-rate units shall include:

A. Analyzing census, Connecticut Department of Economic and Community Development town profiles, and other data to identify racial and ethnic groups least likely to apply based on representation in West Hartford's population, including Asian Pacific, Black, Hispanic, and Native American populations.

B. Announcements/advertisements in publications and other media that will reach minority populations, including newspapers, and radio stations serving West Hartford and other towns in the metropolitan statistical area and regional planning area, and advertisements or flyers likely to be viewed on public transportation or public highway areas.

C. Announcements to social service agencies and other community contacts serving low-income minority families (such as churches, civil rights organizations, the housing authority, and other housing authorities in towns represented in West Hartford's metropolitan statistical area and regional planning agency, legal services organizations, etc.).

D. Assistance to minority applicants in processing applications.

E. Marketing efforts in geographic area of high minority concentrations within the housing market area and metropolitan statistical area.

F. Beginning affirmative marketing efforts prior to general marketing of units, and repeating again during initial marketing and at 50 percent completion and thereafter at reasonable period intervals with respect to re-rentals.

All notices shall comply with the federal and State Fair Housing Acts.

IX. Application Process.

A person seeking to rent one of the Housing Opportunity Units ("Applicant") must complete an application to demonstrate eligibility. The application form and process shall comply with the Fair Housing Acts.

A. Application Form.

The application form shall be provided by the Administrator and shall include an income certification form. In general, "income" for purposes of determining an Applicant's qualification shall include the Applicant family's total anticipated income from all sources for the twelve (12) month period following the date the lease commences (the "Lease Begin Date"). If the Applicant's financial disclosures indicate that the Applicant may experience a significant change in the Applicant's future income during the twelve (12) month period, the Administrator shall not consider this change unless there is a reasonable assurance that the

change will in fact occur.

In determining what is and is not to be included in the definition of annual family income, the Administrator shall use the criteria set forth by HUD and listed on Schedule C, attached.[1]

B. Applicant Interview.

The Administrator shall interview an Applicant upon submission of a completed application. Specifically, the Administrator shall, during the interview, undertake the following:

1. Review with the Applicant all the information provided on the application.

2. Explain to the Applicant the requirements for eligibility, verification procedures, and the penalties for supplying false information.

3. Verify that all sources of family income and family assets have been listed in the application. Make clear that the term "family" includes all individuals who are to occupy the home, and that no relationship by blood or marriage is required.

4. Request the Applicant to sign the necessary release forms to be used in verifying income. Inform the Applicant of what verification and documentation must be provided before the application is deemed complete.

5. Inform the Applicant that a decision as to eligibility cannot be made until all items on the application have been verified.

C. Verification of Applicant's Income.

Where it is evident from the income certification form provided by the Applicant that the Applicant is not eligible, additional verification procedures shall not be necessary. However, if the Applicant appears to be eligible, the Administrator shall require verification of the Applicant's reported income.

If applicable, the Applicant shall provide the documentation listed on Schedule D, attached hereto, to the Administrator. This list is not exclusive, and the Administrator may require any other verification or documentation as the Administrator deems necessary.

A sample rider to the lease agreement for Housing Opportunity Units is attached hereto as Schedule E.

X. Prioritization of Applicants for Initial Rental.

[1] *See* 24 C.F.R. § 5.609. Federal regulations are subject to change, and it is the intent of this Affordability Plan to follow HUD regulations with respect to income certification as such regulations may be amended from time to time.

In the event that the number of qualified Applicants exceeds the number of Housing Opportunity Units, then the Administrator shall compile a waiting list, from which Applicants will be selected on a first-come, first-served basis. For purposes of this section, an application shall be considered received when a completed and signed application form is submitted with the applicable application fee.

XI. Maximum Rental Price.

Calculation of the maximum rental price ("Maximum Rental Price") for a Housing Opportunity Unit, so as to satisfy C.G.S. § 8-30g, shall utilize the lesser of the area median income for the Town of West Hartford or the statewide median income as published by HUD as in effect on the day a lease is signed by the lessee of the Housing Opportunity Unit ("Resident"). Such income shall then be adjusted for household size assuming occupancy by 1.5 persons per bedroom and using the adjustment formula adopted by State regulations. The Maximum Rental Price shall be calculated as follows:

ONE BEDROOM RENTAL UNIT FOR FAMILY EARNING LESS THAN 80 PERCENT OF STATEWIDE MEDIAN INCOME

1. Determine lower of relevant year (2025) area median income for Hartford-West Hartford-East Hartford, CT HUD Metro ($126,600), or statewide median income ($124,600), adjusted for family size (family of 4), as published by HUD	$124,600
2. Determine adjusted income for household of 1.5 persons by calculating 75 percent of Item 1	$93,450
3. Calculate 80 percent of Item 2	$74,760
4. Calculate 30 percent of Item 3, representing maximum portion of a family's income that may be used for housing	$22,428
5. Divide item 4 by 12 to determine maximum monthly housing expense	$1,869
6. Compare HUD 2025 Fair Market Rents for Hartford-West Hartford-East Hartford, CT HUD Metro ($1,306) times 120 percent	$1,567
7. Use Lesser if calculated maximum monthly expense (Item 5) and HUD fair market rent (Item 6)	$1,567
8. Determine by reasonable estimate monthly expenses for heat and utility costs, excluding telephone and cable television but including any fee required	$115

for all tenants (tenant responsible for such expenses)	
9. Subtract reasonable monthly expenses (Items 8) from maximum housing expense (Item 7) to determine maximum amount available for rent	$1,452

ONE BEDROOM RENTAL UNIT FOR FAMILY EARNING LESS THAN 60 PERCENT OF STATEWIDE MEDIAN INCOME

1. Determine lower of relevant year (2025) area median income for Hartford-West Hartford-East Hartford, CT HUD Metro ($126,600), or statewide median income ($124,600), adjusted for family size (family of 4), as published by HUD	$124,600
2. Determine adjusted income for household of 1.5 persons by calculating 75 percent of Item 1	$93,450
3. Calculate 60 percent of Item 2	$56,070
4. Calculate 30 percent of Item 3, representing maximum portion of a family's income that may be used for housing	$16,821
5. Divide item 4 by 12 to determine maximum monthly housing expense	$1,402
6. Compare HUD 2025 Fair Market Rents for Hartford-West Hartford-East Hartford, CT HUD Metro ($1,306)	$1,306
7. Use Lesser if calculated maximum monthly expense (Item 5) and HUD fair market rent (Item 6)	$1,306
8. Determine by reasonable estimate monthly expenses for heat and utility costs, excluding telephone and cable television but including any fee required for all tenants (tenant responsible for such expenses)	$115
9. Subtract reasonable monthly expenses (Items 8) from maximum housing expense (Item 7) to determine maximum amount available for rent	$1,191

TWO BEDROOM RENTAL UNIT FOR FAMILY EARNING LESS THAN 80 PERCENT OF STATEWIDE MEDIAN INCOME

1. Determine lower of relevant year (2025) area median income for Hartford-West Hartford-East Hartford, CT HUD Metro ($126,600), or statewide median income ($124,600), adjusted for family size (family of 4), as published by HUD	$124,600
2. Determine adjusted income for household of 3 persons by calculating 90 percent of Item 1	$112,140
3. Calculate 80 percent of Item 2	$89,712
4. Calculate 30 percent of Item 3, representing maximum portion of a family's income that may be used for housing	$26,914
5. Divide Item 4 by 12 to determine maximum monthly housing expense	$2,243
6. Compare HUD 2025 Fair Market Rents for Hartford-West Hartford-East Hartford, CT HUD Metro ($1,653) times 120 percent	$1,984
7. Use Lesser if calculated maximum monthly expense (Item 5) and HUD fair market rent (Item 6)	$1,984
8. Determine by reasonable estimate monthly expenses for heat and utility costs, excluding telephone and cable television but including any fee required for all tenants (tenant responsible for such expenses)	$135
9. Subtract reasonable monthly expenses (Items 8) from maximum housing expense (Item 7) to determine maximum amount available for rent	$1,849

TWO BEDROOM RENTAL UNIT FOR FAMILY EARNING LESS THAN 60 PERCENT OF STATEWIDE MEDIAN INCOME

1. Determine lower of relevant year (2025) area median income for Hartford-West Hartford-East Hartford, CT HUD Metro ($126,600), or statewide median income ($124,600), adjusted for family size (family of 4), as published by HUD	$124,600
2. Determine adjusted income for household of 3 persons by calculating 90 percent of Item 1	$112,140
3. Calculate 60 percent of Item 2	$67,284
4. Calculate 30 percent of Item 3, representing maximum portion of a family's income that may be used for housing	$20,185
5. Divide Item 4 by 12 to determine maximum monthly housing expense	$1,682

6. Compare HUD 2025 Fair Market Rents for Hartford-West Hartford-East Hartford, CT HUD Metro ($1,653)	$1,653
7. Use Lesser if calculated maximum monthly expense (Item 5) and HUD fair market rent (Item 6)	$1,653
8. Determine by reasonable estimate monthly expenses for heat and utility costs, excluding telephone and cable television but including any fee required for all tenants (tenant responsible for such expenses)	$135
9. Subtract reasonable monthly expenses (Items 8) from maximum housing expense (Item 7) to determine maximum amount available for rent	$1,518

THREE BEDROOM RENTAL UNIT FOR FAMILY EARNINFG LESS THAN 80 PERCENT OF STATEWIDE MEDIAN INCOME

1. Determine lower of relevant year (2025) area median income for Hartford-West Hartford-East Hartford, CT HUD Metro ($126,600), or statewide median income ($124,600), adjusted for family size (family of 4), as published by HUD	124,600
2. Determine adjusted income for household of 4.5 persons	$129,584
3. Calculate 80 percent of Item 2	$103,667
4. Calculate 30 percent of Item 3, representing maximum portion of a family's income that may be used for housing	$31,100
5. Divide Item 4 by 12 to determine maximum monthly housing expense	$2,592
6. Compare HUD 2025 Fair Market Rents for Hartford-West Hartford-East Hartford, CT HUD Metro ($1,992) times 120 percent	$2,390
7. Use Lesser if calculated maximum monthly expense (Item 5) and HUD fair market rent (Item 6)	$2,390
8. Determine by reasonable estimate monthly expenses for heat and utility costs, excluding telephone and cable television but including any fee required for all tenants (tenant responsible for such expenses)	$155
9. Subtract reasonable monthly expenses (Items 8) from maximum housing expense (Item 7) to determine maximum amount available for rent	$2,235

THREE BEDROOM RENTAL UNIT FOR FAMILY EARNING LESS THAN 60 PERCENT OF STATEWIDE MEDIAN INCOME

1. Determine lower of relevant year (2025) area median income for Hartford-West Hartford-East Hartford, CT HUD Metro ($126,600), or statewide median income ($124,600), adjusted for family size (family of 4), as published by HUD	$124,600
2. Determine adjusted income for household of 4.5 persons	$129,584
3. Calculate 60 percent of Item 2	$77,750
4. Calculate 30 percent of Item 3, representing maximum portion of a family's income that may be used for housing	$23,325
5. Divide Item 4 by 12 to determine maximum monthly housing expense	$1,944
6. Compare HUD 2025 Fair Market Rents for Hartford-West Hartford-East Hartford, CT HUD Metro ($1,992)	$1,992
7. Use Lesser if calculated maximum monthly expense (Item 5) and HUD fair market rent (Item 6)	$1,944
8. Determine by reasonable estimate monthly expenses for heat and utility costs, excluding telephone and cable television but including any fee required for all tenants (tenant responsible for such expenses)	$155
9. Subtract reasonable monthly expenses (Items 8) from maximum housing expense (Item 7) to determine maximum amount available for rent	$1,789

Note: *Utility allowances are shown in the above calculations are estimations and will be determined prior to the building placed in service.*

XII. Principal Residence.

Housing Opportunity Units shall be occupied only as a Resident's principal residence. Notwithstanding any zoning, subdivision or other regulation to the contrary, subleasing of Housing Opportunity Units shall be prohibited.

XIII. Requirement to Maintain Condition.

All Residents are required to maintain their units. The Resident shall not destroy, damage or impair the unit, allow the unit to deteriorate, or commit waste on the unit. When a Housing Opportunity Units offered again for rental, the Administrator shall cause the unit to be inspected.

XIV. Change of Income or Qualifying Status of Resident.

In the event that a Resident's income changes so as to exceed the qualifying maximum, or if the Resident otherwise becomes disqualified, such Resident must provide notice to the Administrator within seven (7) days of the disqualification. When a resident becomes disqualified, the Administrator shall require the Resident to vacate the Housing Opportunity Unit within sixty (60) days.

Should a current resident of a Housing Opportunity unit no longer qualify for said unit, then the owner shall permit the resident to apply for an available non-regulated unit (so long as otherwise acceptable pursuant to local, state or federal housing regulations) within 180 days of providing the Administrator of notice that they no longer qualify for a Housing Opportunity Unit. The applicant shall be required to meet all of the applicable leasing requirements for said unit. Notwithstanding the foregoing, the owner and Administrator shall not be required to do anything that is in contravention with any law, statute or regulation, nor shall they be expected to create a vacancy for said tenant. The requirement to provide a resident the opportunity to apply for the next available unit, shall only apply if there is a vacancy and shall not be construed to prevent an existing tenant from renewing their lease.

XV. Enforcement.

A violation of this Affordability Plan shall not result in a forfeiture of title, but the Commission shall otherwise retain all enforcement powers granted by the General Statutes, including § 8-12, which powers include, but are not limited to, the authority, at any reasonable time, to inspect the property and to examine the books and records of the Administrator to determine compliance of Housing Opportunity Units with this Affordability Plan and applicable state statutes and regulations. Such records are confidential and not subject to disclosure under the Freedom of Information Act.

XV. Change In Ownership.

If at any time there is a change of ownership of the Property, the existing owner shall provide written notice of the sale or transfer to the Town Planner within 30 days of executing Purchase and Sale Agreement, which notice shall include the name of the company that is purchasing the property along with a contact at said company.

XVI. Reporting.

The owner shall submit an annual report or certification to the Town of West Hartford Director of Planning to confirm that the property remains in conformance with the requirements of CGS 8-30g as it pertains to renting units to qualifying tenants.

SCHEDULE A
DESIGNATION OF HOUSING OPPORTUNITY UNITS

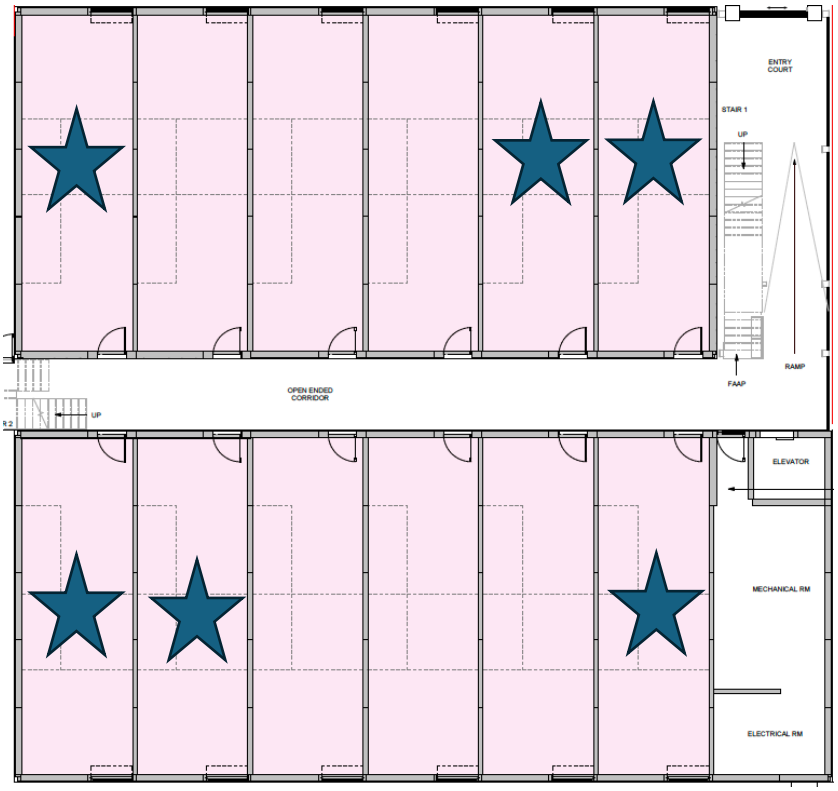
Total Number of Units:

	1BR	2BR	3BR	TOTAL
Market-Rate Units:	71	10	3	84
Housing Opportunity Units:	31	3	2	36
TOTAL:	**102**	**13**	**5**	**120**

Apartment units designated as Housing Opportunity Units are identified on the attached floor plans using a "star"[2].

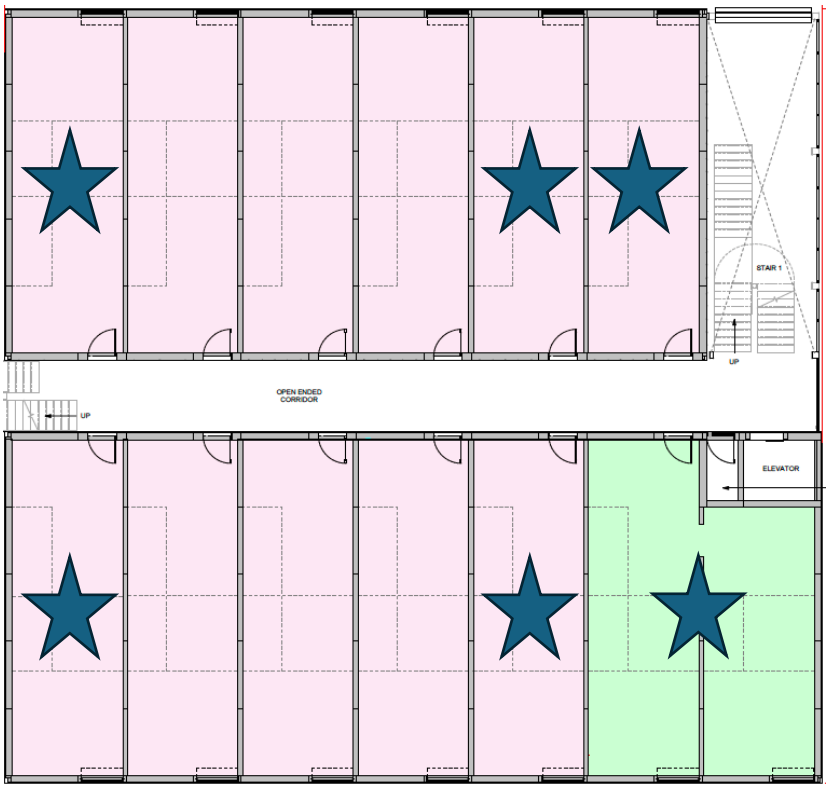
Building A:

First Floor:

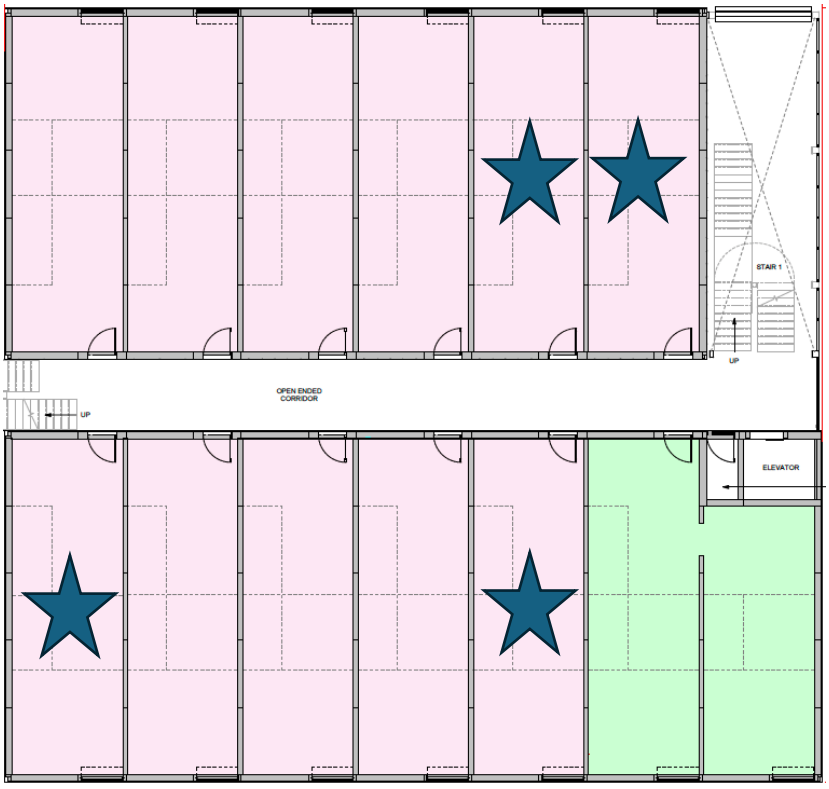


[2] Designated units to be provided as part of final plan which will be submitted prior to placing the building in service.

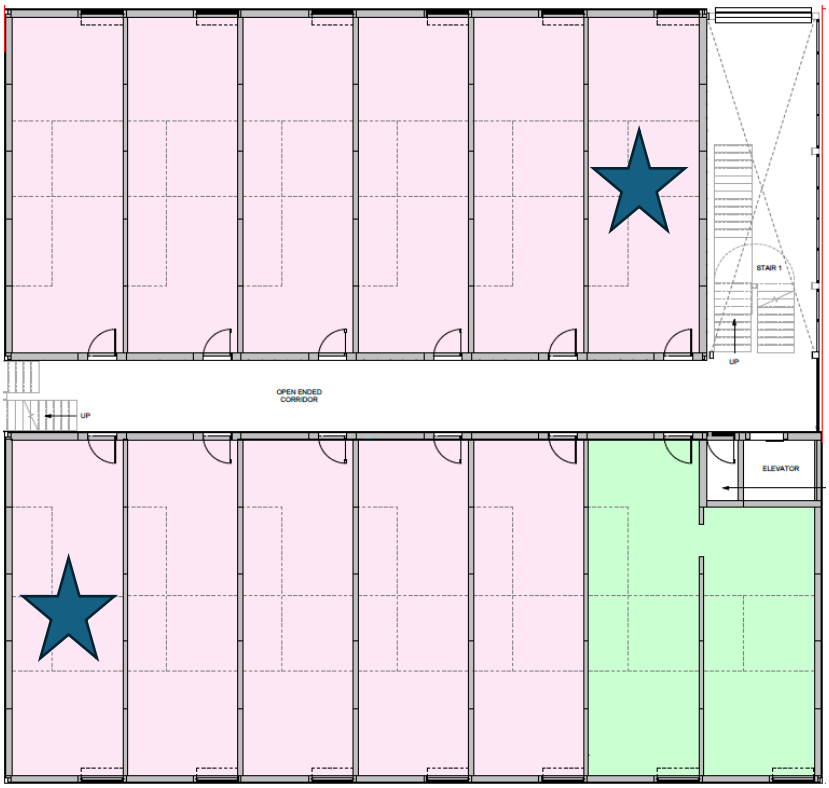
Second Floor:



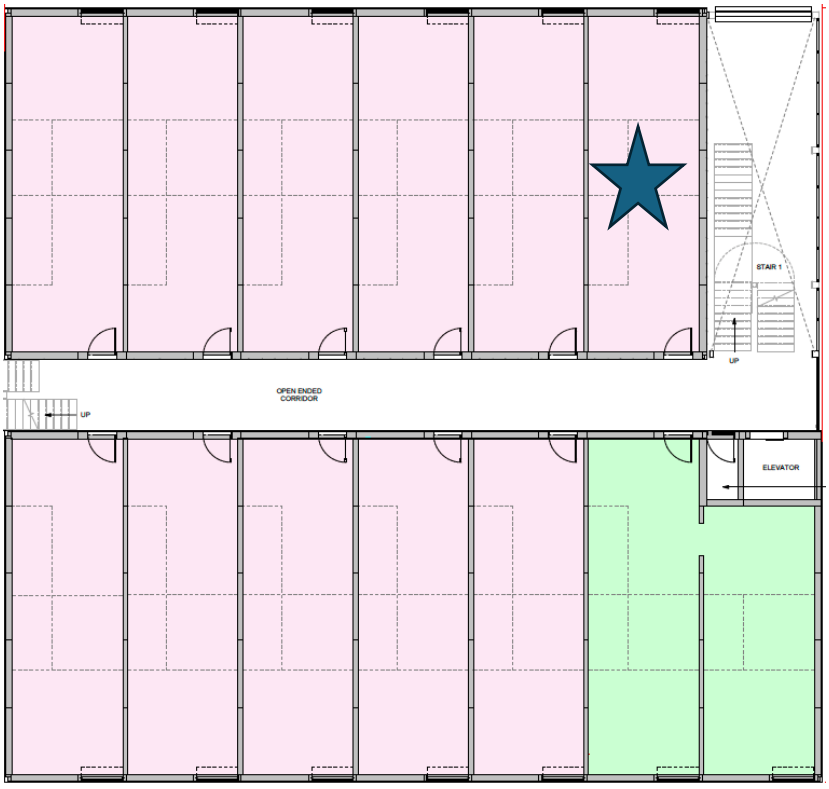
Third Floor:



Fourth Floor:

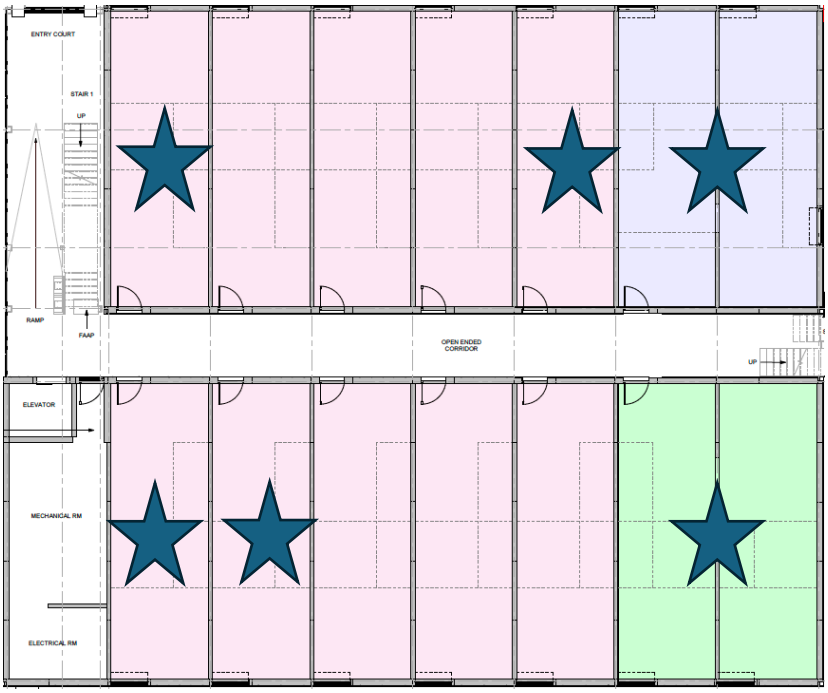


Fifth Floor:

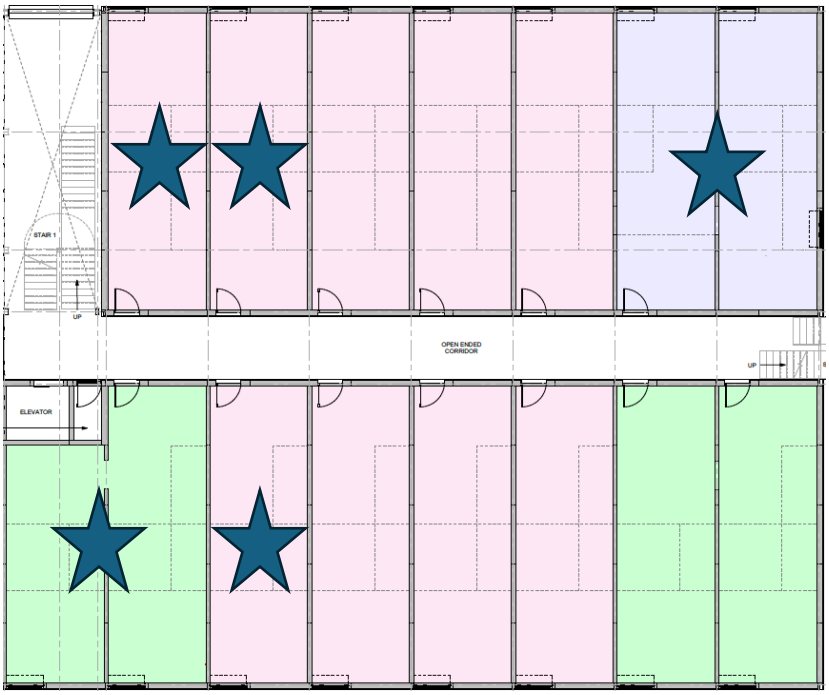


Building B:

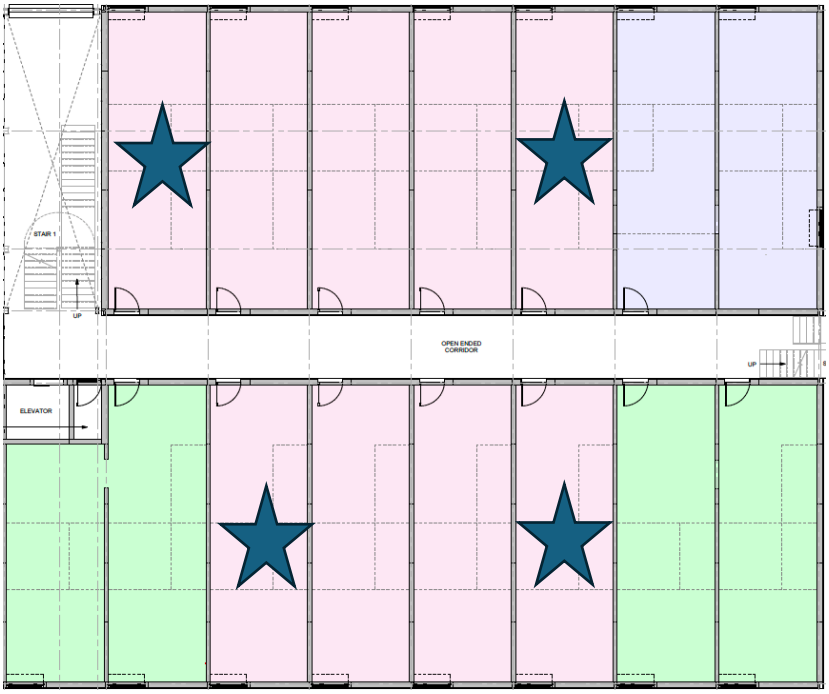
First Floor:



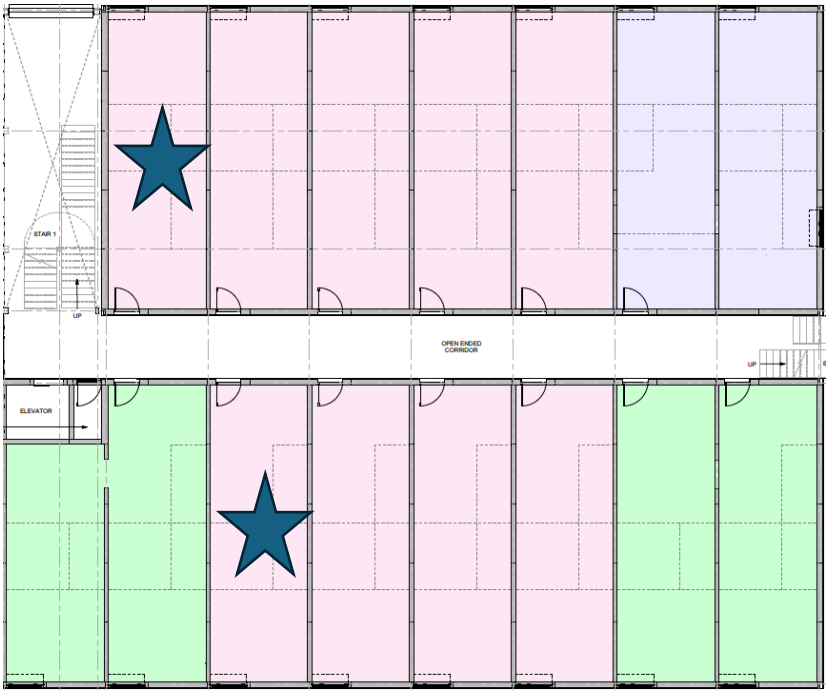
Second Floor:



Third Floor:



Fourth Floor:



SCHEDULE B
MINIMUM SPECIFICATIONS FOR HOUSING OPPORTUNITY UNITS

Foundation

- Grade Beam Foundation
- Frost Walls – poured concrete w/waterproofing

Exterior

- Framing and Sheathing – as per building code
- Exterior Wall – 2" x 6"
- Low slope membrane roof with tapered insulation
- Foundation plantings (as specified)
- HPL rainscreen panel system
- Integral rain water leader system from roof drain area
- Exterior weather-proof electrical outlet(s)
- Triple glazed, low E, argon filled thermally broken composite windows
- Asphalt driveways and walks or equivalent (as specified)
- Insulation as per building code; Exterior walls R21; Roof R49

Interior

- Vinyl plank
- Energy efficient heating system
- Centralized high efficiency hot water heater
- Direct wire smoke detectors
- Telecom connections
- In-unit laundry
- Ground fault circuits in kitchen, bathrooms
- Flush panel doors

Kitchens

- Vinyl plank
- Laminate, HPL, or traditional wood cabinets
- Refrigerator, two induction cooktop burners, countertop smart oven
- Countertop dishwasher
- Solid surface or similar countertops
- Stainless steel sink with single lever faucet and pull down sprayer

Bathrooms

- Vanity mirrors
- Solid composite shower pan with HPL enclosure
- Solid surface or similar countertops
- Water-resistant LVP flooring

SCHEDULE C
DEFINITIONS AND ELEMENTS OF ANNUAL FAMILY INCOME

1. Annual income shall be calculated with reference to 24 C.F.R. § 5.609, and includes, but is not limited to, the following:

   a. The full amount, before any payroll deductions, of wages and salaries, overtime pay, commissions, fees, tips, bonuses and other compensation for personal services;

   b. The net income from operations of a business or profession, before any capital expenditures but including any allowance for depreciation expense. Any withdrawal of cash or assets from the operation of a business or profession will be included in income, except to the extent the withdrawal is reimbursement of cash or assets invested in the operation by the family;

   c. Interest, dividends, and other net income of any kind from real or personal property, before any capital expenditures but including any allowance for depreciation expense. Any withdrawal of cash or assets from an investment will be included in income, except to the extent the withdrawal is reimbursement of cash or assets invested by the family. Where the family has net family assets in excess of $5,000, annual income shall include the greater of the actual income derived from all net family assets or a percentage of the value of such assets based on the current passbook savings rate, as determined by HUD;

   d. The full amount of periodic payments received from social security, annuities, insurance policies, retirement funds, pensions, disability or death benefits, or other similar types of periodic payments; including a lump-sum amount or prospective monthly amounts for the delayed start of a periodic amount, except as permitted in 2.q, below;

   e. Payments in lieu of earnings, such as unemployment and disability compensation, worker's compensation, and severance pay, except as permitted in 2.c, below;

   f. Welfare assistance payments.

      (1) Welfare assistance payments made under the Temporary Assistance for Needy Families (TANF) program are included in annual income only to the extent such payments:

         i. Qualify as assistance under the TANF program definition at 45 C.F.R § 260.31; and

         ii. Are not otherwise excluded under Section 2, below

      (2) If the welfare assistance payments include an amount specifically designated for shelter and utilities that is subject to adjustment by the welfare assistance agency in accordance with the actual cost of shelter and utilities, the amount of welfare assistance to be included as income consists of the following:

i. The amount of the allowance or grant exclusive of the amounts designated for shelter or utilities, plus

ii. The maximum amount that the welfare assistance agency could in fact allow the family for shelter and utilities. If the family's welfare assistance is ratably reduced from the standard of need by applying a percentage, the amount calculated under this paragraph shall be the amount resulting from one application of the percentage:

g. Periodic and determinable allowances, such as alimony and child support payments, and regular contributions or gifts received from organizations or persons not residing with the Applicant (e.g., periodic gifts from family members, churches, or other sponsored group, even if the gifts are designated as rental or other assistance);

h. All regular pay, special pay and allowances of a member of the Armed Forces, except combat pay as in 2.g, below;

i. For section 8 programs only and as provided in 24 C.F.R § 5.612, any financial assistance, in excess of amounts received for tuition and any other required fees and charges, that an individual receives under the Higher Education Act of 1965 (20 U.S.C. § 1001 et seq.), from private sources, or from an institution of higher education (as defined under the Higher Education Act of 1965 (20 U.S.C. § 1002)), shall be considered income to that individual, except that financial assistance described in this paragraph is not considered annual income for persons over the age of 23 with dependent children. For purposes of this paragraph, "financial assistance" does not include loan proceeds for the purpose of determining income.

2. Excluded from the definition of family annual income are the following:

a. Income from employment of children under the age of 18 (including foster children);

b. Payments received for the care of foster children or foster adults;

c. Lump-sum additions to family assets, such as inheritances, insurance payments (including payments under health and accident insurance and worker's compensation), capital gains and settlement for personal or property losses, except as proved in 1.e, above;

d. Amounts received by the family that are specifically for, or in reimbursement of, the cost of medical expenses for any family member;

e. Income of a live-in aide, as defined in 24 C.F.R. § 5.403;

f. Subject to 1.i, above, the full amount of student financial assistance paid directly to the student or to the educational institution;

g. The special pay to a family member serving in the Armed Forces who is exposed to hostile fire;

h. Amounts received under training programs funded by HUD;

i. Amounts received by a person with a disability that are disregarded for a limited time for purposes of Supplemental Security Income eligibility and benefits because they are set aside for use under a Plan to Attain Self–Sufficiency (PASS);

j. Amounts received by a participant in other publicly assisted programs which are specifically for or in reimbursement of out-of-pocket expenses incurred (special equipment, clothing, transportation, child care, etc.) and which are made solely to allow participation in a specific program;

k. Amounts received under a resident service stipend. A resident service stipend is a modest amount (not to exceed $200 per month) received by a resident for performing a service for the PHA or owner, on a part-time basis, that enhances the quality of life in the development. Such services may include, but are not limited to, fire patrol, hall monitoring, lawn maintenance, resident initiatives coordination, and serving as a member of the PHA's governing board. No resident may receive more than one such stipend during the same period of time;

l. Incremental earnings and benefits resulting to any family member from participation in qualifying State or local employment training programs (including training programs not affiliated with a local government) and training of a family member as resident management staff. Amounts excluded by this provision must be received under employment training programs with clearly defined goals and objectives, and are excluded only for the period during which the family member participates in the employment training program;

m. Temporary, nonrecurring or sporadic income (including gifts that are not regular or periodic);

n. Reparation payments paid by a foreign government pursuant to claims filed under the laws of that government by persons who were persecuted during the Nazi era;

o. Earnings in excess of $480 for each full-time student 18 years old or older (excluding the head of household and spouse);

p. Adoption assistance payments in excess of $480 per adopted child;

q. Deferred periodic amounts from supplemental security income and social security benefits that are received in a lump sum amount or in prospective monthly amounts, or any deferred Department of Veterans Affairs disability

benefits that are received in a lump sum amount or in prospective monthly amounts;

r. Amounts received by the family in the form of refunds or rebates under State or local law for property taxes paid on the dwelling unit;

s. Amounts paid by a State agency to a family with a member who has a developmental disability and is living at home to offset the cost of services and equipment needed to keep the developmentally disabled family member at home; and

t. Amounts specifically excluded by any other Federal statute from consideration as income for purposes of determining eligibility or benefits under a category of assistance programs that includes assistance under any program to which the exclusions set forth in 24 C.F.R § 5.609(c) apply. *See* Exhibit 5-1 at pp. 4-5 to HUD Handbook 4350.3: Occupancy Requirements of Subsidized Multifamily Housing Programs, revised as of November 2013, for a listing of income sources that apply for the exclusion.

3. Net family assets for purposes of imputing annual income include the following:[3]

a. Cash held in savings and checking accounts, safety deposit boxes, homes, etc.;

b. The current market value of a trust for which any household member has an interest;

c. The current market value of any rental property or other capital investments, less (a) any unpaid balance on any loans secured by the property and (b) reasonable costs that would be incurred in selling the asset (e.g., penalties, broker fees, etc.);

d. The current market value of all stocks, bonds, treasury bills, certificates of deposit, mutual funds, and money market accounts;

e. The current value of any individual retirement, 401K or Keogh account;

f. The cash value of a retirement or pension fund which the family member can withdraw without terminating employment or retiring;

g. Periodic or lump-sum receipts from pension and retirement funds at retirement, termination of employment or withdrawal;

h. The cash value of life insurance policies available to the individual before death;

[3] What is included and excluded from Net Family Assets is derived with reference to Exhibit 5-2 to HUD Handbook 4350.3: Occupancy Requirements of Subsidized Multifamily Housing Programs, revised as of November 2013.

i. Any lump-sum receipts not otherwise included in income (*i.e.*, inheritances, capital gains, one-time lottery winnings, victim's restitution and settlement on insurance claims);

j. The current market value of any personal property held for investment (*i.e.*, gems, jewelry, coin collections); and

k. Interest payments on a mortgage or deed of trust held by an Applicant.

4. Net family assets do not include the following:

a. Necessary personal property (clothing, furniture, cars, etc.);

b. Interest in Indian Trust Land;

c. Equity in a cooperative unit in which the family lives;

d. Term life insurance policies;

e. Assets which are part of an active business, not including rental properties;

f. Assets that are not effectively owned by the Applicant because, although held in the Applicant's name, the assets and any income accrue to the benefit of someone else who is not a member of the family and the other person is responsible for income taxes incurred; and

g. Assets that are not accessible to the Applicant and provide no income to the Applicant.

SCHEDULE D
DOCUMENTATION OF INCOME

The following documents shall be provided, where applicable, to the Administrator to determine income eligibility:

1. Employment Income.

Verification forms must request the employer to specify the frequency of pay, the effective date of the last pay increase, and the probability and effective date of any increase during the next twelve (12) months. Acceptable forms of verification (of which at least one must be included in the Applicant file) include:

(a) An employment verification form completed by the employer.

(b) Check stubs or earnings statement showing Applicant's gross pay per pay period and frequency of pay.

(c) W-2 forms if the Applicant has had the same job for at least two years and pay increases can be accurately projected.

(d) Notarized statements, affidavits or income tax returns signed by the Applicant describing self-employment and amount of income, or income from tips and other gratuities.

2. Social Security, Pensions, Supplementary Security Income, Disability Income.

(a) Benefit verification form completed by agency providing the benefits.

(b) Award or benefit notification letters prepared and signed by the authorizing agency. (Since checks or bank deposit slips show only net amounts remaining after deducting SSI or Medicare, they may be used only when award letter cannot be obtained.)

(c) If a local Social Security Administration ("SSA") office refuses to provide written verification, the Administrator should meet with the SSA office supervisor. If the supervisor refuses to complete the verification forms in a timely manner, the Administrator may accept a check or automatic deposit slip as interim verification of Social Security or SSI benefits as long as any Medicare or state health insurance withholdings are included in the annual income.

3. Unemployment Compensation.

(a) Verification form completed by the unemployment compensation agency.

(b) Records from unemployment office stating payment dates and amounts.

4. Government Assistance.

(a) All Government Assistance Programs. Agency's written statements as to type and amount of government assistance the Applicant is now receiving, including but not limited to assistance under the federal Section 8 program, and any changes in such assistance expected during the next twelve (12) months.

(b) Additional Information for "As-paid" Programs: Agency's written schedule or statement that describes how the "as-paid" system works, the maximum amount the Applicant may receive for shelter and utilities and, if applicable, any factors used to ratably reduce the Applicant's grant.

5. Alimony or Child Support Payments.

(a) Copy of a separation or settlement agreement or a divorce decree stating amount and type of support and payment schedules.

(b) A letter from the person paying the support.

(c) Copy of latest check. The date, amount, and number of the check must be documented.

(d) Applicant's notarized statement or affidavit of amount received or that support payments are not being received and the likelihood of support payments being received in the future.

6. Net Income from a Business.

The following documents show income for the prior years. The Administrator must consult with Applicant and use this data to estimate income for the next twelve (12) months.

(a) IRS Tax Return, Form 1040, including any:
Schedule C (Small Business)
Schedule E (Rental Property Income)
Schedule F (Farm Income)

(b) An accountant's calculation of depreciation expense, computed using straight-line depreciation rules. (Required when accelerated depreciation was used on the tax return or financial statement.)

(c) Audited or unaudited financial statement(s) of the business.

(d) A copy of a recent loan application listing income derived from the business during the previous twelve (12) months.

(e) Applicant's notarized statement or affidavit as to net income realized from the business during previous years.

7. Recurring Gifts.

(a) Notarized statement or affidavit signed by the person providing the assistance. Must give the purpose, dates and value of gifts.

(b) Applicant's notarized statement or affidavit that provides the information above.

8. Scholarships, Grants, and Veterans Administration Benefits for Education.

(a) Benefactor's written confirmation of amount of assistance, and educational institution's written confirmation of expected cost of the student's tuition, fees, books and equipment for the next twelve (12) months. To the extent the amount of assistance received is less than or equal to actual educational costs, the assistance payments will be excluded from the Applicant's gross income. Any excess will be included in income.

(b) Copies of latest benefit checks, if benefits are paid directly to student. Copies of canceled check or receipts for tuition, fees, books, and equipment, if such income and expenses are not expected to change for the next twelve (12) months.

(c) Lease and receipts or bills for rent and utility costs paid by students living away from home.

9. Family Assets Currently Held.

For non-liquid assets, collect enough information to determine the current cash value (i.e., the net amount the Applicant would receive if the asset were converted to cash).

(a) Verification forms, letters, or documents from a financial institution, broker, etc.

(b) Passbooks, checking account statements, certificates of deposit, bonds, or financial statements completed by a financial institution or broker.

(c) Quotes from a stock broker or realty agent as to net amount Applicant would receive if Applicant liquidated securities or real estate.

(d) Real estate tax statements if tax authority uses approximate market value.

(e) Copies of closing documents showing the selling price, the distribution of the sales proceeds and the net amount to the borrower.

(f) Appraisals of personal property held as an investment.

(g) Applicant's notarized statements or signed affidavits describing assets or verifying the amount of cash held at the Applicant's home or in safe deposit boxes.

10. Assets Disposed of for Less Than Fair Market Value ("FMV") During Two Years Preceding Lease Begin Date.

(a) Applicant's certification as to whether it has disposed of assets for less than FMV during the two (2) years preceding the Lease Begin Date.

(b) If the Applicant states that it did dispose of assets for less than FMV, then a written statement by the Applicant must include the following:

(i) A list of all assets disposed of for less than FMV;

(ii) The date Applicant disposed of the assets;

(iii) The amount the Applicant received; and

(iv) The market value to the asset(s) at the time of disposition.

11. Savings Account Interest Income and Dividends.

(a) Account statements, passbooks, certificates of deposit, etc., if they show enough information and are signed by the financial institution.

(b) Broker's quarterly statements showing value of stocks or bonds and the earnings credited the Applicant.

(c) If an IRS Form 1099 is accepted from the financial institution for prior year earnings, the Administrator must adjust the information to project earnings expected for the next twelve (12) months.

12. Rental Income from Property Owned by Applicant.

The following, adjusted for changes expected during the next twelve (12) months, may be used:

(a) IRS Form 1040 with Schedule E (Rental Income).

(b) Copies of latest rent checks, leases, or utility bills.

(c) Documentation of Applicant's income and expenses in renting the property (tax statements, insurance premiums, receipts for reasonable maintenance and utilities, bank statements or amortization schedule showing monthly interest

expense)(d) Lessee's written statement identifying monthly payments due the Applicant and Applicant's affidavit as to net income realized.

13. Full-Time Student Status.

(a) Written verification from the registrar's office or appropriate school official.

(b) School records indicating enrollment for sufficient number of credits to be considered a full-time student by the school.

SCHEDULE E
SAMPLE LEASE RIDER FOR HOUSING OPPORTUNITY UNITS

2024 RIDER TO THE LEASE AGREEMENT
FOR HOUSING OPPORTUNITY UNITS (80%)[*]

1. TERM AND PROVISIONS

The annexed Lease Agreement for an affordable residential rental unit is for a term of at least (1) year.

This unit is being rented as an "affordable housing unit" as defined by Section 8-30g of the Connecticut General Statutes, and is to be rented at or below the lesser of 80 percent of the area median income for the Town of West Hartford, Connecticut, or 80 percent of the State Median Income as determined by the U.S. Department of Housing and Urban Development ("HUD"). (Rates are determined on an annual basis.) This development has been approved by the Town of West Hartford based in part on the condition that a defined percentage of residential rental units will be rented as affordable housing apartment homes. The Landlord is required by law to strictly enforce these restrictions.

2. INCOME LIMITS

Prior to the commencement of the lease term, resident must provide Landlord with a copy of his or her most recently filed Federal Income Tax Return (Form 1040 or 1040A) or any other proof requested or allowed by law for the purpose of verifying income. Resident must certify that such proof is true and accurate and that the total annual income of all the members of Resident's family who will occupy the unit subject to this lease does not exceed the amount set forth below which applies to the number of persons in Resident's family who will be residing in the subject unit:

FAMILY SIZE:

1	2	3	4
$_____	$_____	$_____	$_____

3. MAXIMUM RENTS

Notwithstanding anything in the Lease Agreement to the contrary, the total rent for the affordable housing residential rental units shall not exceed the amounts set forth below:

[*] A similar Rider will be used for the 60% affordable income apartments.

	MAXIMUM RENT	ACTUAL RENT (Less a Utility Allowance)
1 bedroom:		
Annual	$_____	
Monthly	$_____	$_____

4. UTILITY ALLOWANCE

The monthly rent for an affordable rental unit includes a monthly allowance for utilities, which are heat, hot water, electricity, trash but excluding telephone and cable television. Heat and utility costs are calculated by a reasonable estimate.

5. CERTIFICATION OF INCOME

Prospective residents will be required to fill out an application form containing detailed instructions for calculating their family income and allowing the Administrator to verify the information. Applicants will be required to sign a verification of their review and understanding of the income maximums, the penalties for false information, and the applicable procedures in the event that their income increases at some future time above the allowable maximum. Applicants will also be required to provide appropriate documentation to verify their income. Incomes of resident(s) in each affordable unit will be re-verified annually at the time of the lease renewal.

This Agreement shall terminate and the Resident may be evicted for failure to qualify, if the Resident has falsely certified family income or family composition. Such false certification constitutes material noncompliance under the Lease Agreement. Resident is obligated to provide such subsequent re-certification of income as the Landlord shall require.

The Town of West Hartford will be entitled to inspect the income statements of the residents of the affordable units upon which the Administrator bases the certification.

6. CHANGE OF INCOME

In the event that an affordable unit resident's income changes so as to exceed the qualifying maximum or if the resident otherwise becomes disqualified, such resident must provide notice to the Landlord's representative within seven (7) days of the disqualification. When a resident becomes disqualified, the Administrator shall require the Resident to vacate the Housing Opportunity Unit within sixty (60) days. The Administrator (or owner, if the Administrator is not the owner) in his sole discretion may elect to move the Resident to a market rate apartment unit if the Resident satisfies the Administrator's (or owner's) normal criteria for such unit.

7. LANDLORD'S RIGHT TO INCREASE RENT

In the event that the Resident's residence is no longer being subsidized under Section 8 of the United States Housing Act of 1937, the Landlord's right to increase the monthly rent shall be conditioned upon the Landlord's furnishing Resident with a notice at least sixty (60) days prior to such increase.

8. LANDLORD'S RIGHT TO REASSIGN PREMISES

Whereas the monthly rent for this unit is calculated on the basis of the number of bedrooms in the unit, Resident may, during the term of the Lease, be reassigned to different premises if an increase or decrease in the number of Resident's family members residing in the unit warrants such a change under applicable statutes and regulations. In the event of such reassignment, Resident's monthly rent shall be based upon the size of the unit occupied for the remaining Lease term.

9. NO SUBLETTING OR ASSIGNMENT

Subletting of affordable units shall be prohibited. In addition, the affordable unit shall be occupied only as the resident's principal residence.

10. RESTRICTIONS ON USE

No portion of the unit may at any time during the term of this Agreement be used on a transient basis, for example, as a hotel, motel, dormitory, fraternity house, sorority house, rooming house, hospital, nursing home, sanitarium, or rest home.

11. ACCESS TO COMMON FACILITIES

Residents shall be given equal access with all other Residents, at an equal charge if any, to all on-site and all off-site common facilities of the Community. The Landlord shall ensure that handicapped or disabled individuals are afforded equal access to all facilities of the Community.

12. INTERPRETATION

Unless otherwise indicated, the terms used herein shall have the same meaning ascribed to them in the main body of this Lease Agreement. This rider shall control any conflict between terms herein and the Lease Agreement.

13. PROCEDURES FOR INITIAL DESIGNATION AND LEASING OF AFFORDABLE UNITS

Attached to this Lease Agreement is the developer's initial designation of the units that shall be rented as affordable units. These units shall remain vacant until a qualified family is found.

In the event that the development is fully leased and the development contains the minimum number of affordable units containing income-qualified families, if one of the families

occupying these units vacates voluntarily or otherwise, this unit will be kept vacant until another qualified family is found.

RIDER TO THE LEASE AGREEMENT
FOR HOUSING OPPORTUNITY UNITS

IN WITNESS WHEREOF, the parties hereto have executed this Rider to the Lease Agreement on the _____ day of _____ Year _____.

RESIDENT

_____

_____

_____
PRINT NAME

_____
PRINT NAME

_____
DATE

Vessel Technologies Inc.

_____
SIGNATURE MANAGEMENT REPRESENTATIVE

SCHEDULE F
DEED RESTRICTION FOR 8-30g Units

"This development is a set aside development as defined in section 8-30g of the Connecticut General Statutes and in accordance with the applicable regulations for state agencies that were in effect on the date of the original application for initial local approval _____(insert appropriate date), containing affordable housing dwelling units, and is therefore subject to limitations on the maximum annual income of the household that may rent the designated affordable housing dwelling units, and on the maximum rental that may be charged for such affordable housing dwelling units. These limitations shall be strictly enforced, and may be enforced by the zoning enforcement authority of [the municipality] against the record owner of the development or the person identified in the affordability plan as responsible for the administration of these limitations.

For the duration of this covenant or restriction, no less than fifteen percent (15%) of the dwelling units in this development shall be rented to persons and families whose annual income is less than or equal to eighty percent (80%) of the median income as defined in subsection 8-30g-1(10) of the Regulations of Connecticut State Agencies, and such units may be rented only at a rental equal to or less than the rental determined using the formula for maximum monthly rental amount stated in section 8-30g-8(d) of the Regulations of Connecticut State Agencies. In addition, no less than fifteen percent (15%) of the dwelling units shall be rented to persons and families whose annual income is less than or equal to 60 percent (60%) of the median income as defined in subsection 8-30g-1(10) of the Regulations of Connecticut State Agencies, and such units may be rented only at a rental equal to or less than the rental determined using the formula for maximum monthly rental amount stated in section 8-30g-8(e) of the Regulations of Connecticut State Agencies."

SCHEDULE G
AFFIRMATIVE FAIR HOUSING MARKETING REQUIREMENTS

Connecticut eRegulations System — Tracking Number PR2022-033 — Posted 2/4/2025

Secretary of the State File Number
6427

Regulation of the

Department of Housing

Concerning

Fair Housing Regulations

Regulations adopted after July 1, 2013, become effective upon posting to the Connecticut eRegulations System, or at a later date if specified within the regulation.

Posted to the Connecticut eRegulations System on **February 4, 2025**

EFFECTIVE DATE
February 4, 2025

Approved by the Attorney General on
November 27, 2024

Approved by the Legislation Regulation Review Committee on
January 28, 2025

Electronic copy with agency head certification statement electronically submitted to and received by the Office of the Secretary of the State on
January 31, 2025

Connecticut eRegulations System — Tracking Number PR2022-033 — Posted 1/31/2025

Form ICM-ECOPY (NEW 6/2015)
State of Connecticut
Secretary of the State

IMPORTANT NOTICE FOR CONNECTICUT STATE AGENCIES
This form should be used only for regulations first noticed *on and after March 23, 2015.*

Electronic Copy Certification Statement

(Submitted in accordance with the provisions of section 4-172 of the Connecticut General Statutes)

Regulation of the
Department of Housing
Concerning
Fair Housing Regulations

Approved by the Legislative Regulation Review Committee: **January 28, 2025**
eRegulations System Tracking Number: **PR2-22-033**

I hereby certify that the electronic copy of the above-referenced regulation submitted herewith to the Secretary of the State is a true and accurate copy of the regulation approved in accordance with sections 4-169 and 4-170 of the *Connecticut General Statutes*.

And I further certify that in accordance with the approval of Legislative Regulation Review Committee, all required technical corrections, page substitutions and deletions, if any, have been incorporated into said regulation.

In testimony whereof, I have hereunto set my hand on **January 30, 2025**.

Seila Mosquera-Bruno
Seila Mosquera-Bruno
Commissioner
Department of Housing

State of Connecticut
Regulation of
Department of Housing
Concerning
Fair Housing Regulations

Sec. 1. The Regulations of Connecticut State Agencies are amended by adding sections 8-37ee-401 to 8-37ee-910, inclusive, as follows:

(NEW) **Sec. 8-37ee-401. Definitions**

As used in subtitle 8-37ee of the Regulations of Connecticut State Agencies:

(1) "Affirmative fair housing marketing plan" means the information provided by an entity, in a form and manner prescribed by the housing agency, setting forth its plan to comply with the requirements set forth in Parts 1 to 3, inclusive, of subtitle 8-37ee of the Regulations of Connecticut State Agencies, as required by section 8-37ee-502 of the Regulations of Connecticut State Agencies.

(2) "Applicant" means an individual who submits an application to a housing agency in connection with a housing opportunity.

(3) "Affirmatively further fair housing" means taking actions, in addition to combating discrimination, that overcome patterns of segregation and foster inclusive communities free from barriers that restrict access to opportunity based on protected characteristics.

(4) "Department" means the Department of Housing.

(5) "Entity" means an organization that applies for or receives state financial assistance from a housing agency or contracts with a housing agency to administer a program on behalf of the housing agency.

(6) "Housing agency" has the same meaning as provided in section 8-37aa of the Connecticut General Statutes.

(7) "Housing opportunity" means the availability of assistance with housing, either through the provision of a unit of housing for rental or ownership, or a rental subsidy, or both, funded in whole or part by a housing agency.

(8) "HUD" means the United States Department of Housing and Urban Development or its successor agency.

(9) "Least likely to apply" means those persons who, in the main, are members of a demographic group that is numerically in a minority in the geographic area of the housing opportunity, as reviewed and approved by the housing agency with respect to each housing opportunity, and thus need additional dissemination of information to inform them of the housing opportunity.

(10) "Metropolitan Statistical Area" means such areas as defined by HUD.

(11) "New housing opportunity" means a housing opportunity arising from the construction of new housing units funded in whole or part by a housing agency, or the creation of a new subsidy program to benefit individual renters or homeowners.

(12) "Preference" means identified criteria used to select applicants from the waitlist for a housing opportunity.

(13) "Primary Metropolitan Statistical Area" means such areas as defined by HUD.

(14) "Waitlist" means a listing of applicants for a housing opportunity that includes a waitlist number, a control number, and the status of the application, and may also include unit size sought and any preferences established as set forth in section 8-37ee-807 of the Regulations of Connecticut State Agencies.

(NEW) **Sec. 8-37ee-402. Applicability**

(a) As set forth in section 8-37ee(a) of the Connecticut General Statutes, the fair housing requirements set forth in subtitle 8-37ee of the Regulations of Connecticut State Agencies shall apply to all entities participating in any program administered by a housing agency.

(b) Where a housing agency uses funding for the development or rehabilitation of housing units, the requirements set forth in subtitle 8-37ee of the Regulations of Connecticut State Agencies shall apply to the development or rehabilitation of:

(1) A subdivision, as defined in section 8-18 of the Connecticut General Statutes, or multifamily developments of five (5) or more lots or units; or

(2) Five (5) or more scattered site dwelling units, whether part of a single housing opportunity or multiple housing opportunities.

(c) The department may waive any nonstatutory requirements imposed by subtitle 8-37ee of the Regulations of Connecticut State Agencies. Requests for a waiver shall be in writing and addressed to the department. The department shall only grant such waiver with sufficient evidence that:

(1) The strict enforcement of such requirements results in exceptional difficulty or unusual hardship not caused by the entity;

(2) The benefit to be gained by waiver of the requirements outweighs the detriment which shall result from enforcement, if any;

(3) The waiver is in harmony with affirmatively furthering fair housing with respect to all applicable state, federal and local fair housing laws and regulations; and

(4) The waiver is in the best interest of the state.

(NEW) Secs. 8-37ee-403 – 8-37ee-500. Reserved.

Part 1
Affirmative Fair Housing Marketing Requirements

(NEW) Sec. 8-37ee-501. Characteristics of affirmative fair marketing programs

Each entity shall meet the following requirements or, if it contracts marketing responsibility to another party, be responsible for that party's carrying out the following requirements:

(1) Create and implement an affirmative fair housing marketing plan to attract buyers, tenants, applicants, or participants that are least likely to apply to the housing opportunity for initial or ongoing sale, rental, or participation in programs administered by the entity. An entity shall have an affirmative fair housing marketing plan in effect for all housing opportunities throughout the term of the use restriction concerning such housing opportunity recorded on the municipal land records, assistance agreement or regulatory agreement for an entity receiving state financial assistance from a housing agency, or at any time during the period an entity is subject to the terms of a contract with a housing agency to administer a program on behalf of a housing agency, as applicable. An entity shall include in its affirmative fair housing marketing plan a carefully documented assessment of the groups that are least likely to apply and a clearly articulated affirmative marketing policy and effort to disseminate information to those groups, including a determination of whether translation of materials into language or languages other than English is necessary. An entity's marketing efforts shall include a HUD-approved fair housing logo, slogan or statement and all advertising depicting persons shall depict persons of diverse demographic groups.

(2) Maintain a policy in compliance with all applicable equal opportunity and nondiscrimination legal requirements when recruiting for staff to be engaged in the sale or rental of properties or the administration of housing opportunities.

(3) Instruct all employees and agents of the entity, in writing and orally, of the entity's policy of nondiscrimination and fair housing with respect to all applicable state, federal and local fair housing laws and regulations.

(4) Consider the application of any eligible buyers, tenants, applicants, or participants who the housing agency has referred to the entity.

(5) Prominently display, in all offices in which sale, rental, or administrative activity pertaining to housing opportunities occurs, a fair housing poster approved by the Commission on Human Rights and Opportunities that includes reference to protected classes under Connecticut law, and include the HUD-approved fair housing logo, slogan or statement in any printed material the entity uses in connection with sales, rentals, and participation in programs administered by the entity.

(NEW) **Sec. 8-37ee-502. The affirmative fair housing marketing plan**

Each entity to which subtitle 8-37ee of the Regulations of Connecticut State Agencies applies shall provide, on a form and in the manner prescribed by the housing agency, information stating that its affirmative fair housing marketing plan complies with the requirements set forth in Parts 1 to 3, inclusive, of subtitle 8-37ee of the Regulations of Connecticut State Agencies. The entity shall make the affirmative fair housing marketing plan, once approved by the housing agency, available for public inspection at the sales or rental office of the entity or the office where the specific housing opportunity is administered.

(NEW) Secs. 8-37ee-503 – 8-37ee-600. Reserved.

Part 2
Affirmative Fair Housing Marketing

(NEW) **Sec. 8-37ee-601. Affirmative fair housing marketing process**

(a) **Assessing affirmative marketing needs**

Affirmative fair housing marketing plans shall identify the group or groups least likely to apply for the housing opportunity through the submission of relevant demographic data. Entities may derive data from the U.S. Census, municipal sources, regional planning agencies, civil rights groups, fair housing officers, social service agencies, federal sources, state planning documents or reports, and like organizations and sources. Entities shall clearly identify the documentation of any sources for such data.

(b) **Affirmative marketing outreach**

(1) Mechanisms − Affirmative fair housing marketing plans shall determine and identify the most appropriate ways in which the entity shall disseminate information to potential applicants, which may include: newspaper, radio, television, and other electronic and non-electronic media advertisements as well as flyers and announcements to social service agencies and other organizations with the desire and capacity to inform potential applicants of the availability of housing opportunities. These mechanisms or organizations shall represent those most likely to be read, heard, seen by, or in contact with potential applicants least likely to apply.

(2) Locale − Affirmative fair housing marketing plans shall provide for the dissemination of information at a minimum in (A) the largest city located in the nearest Primary Metropolitan Statistical Area or Areas or Metropolitan Statistical Area or Areas, (B) the Regional Council of Governments planning region in which the entity is located, as defined by section 4-124i of the Connecticut General Statutes, and (C) any other areas where those least likely to apply may reside.

(3) Time frame − Affirmative fair housing marketing plans shall identify the time frame, duration, and frequency of the mechanisms for the dissemination of information set forth in subdivision (1) of this subsection. At a minimum, affirmative fair housing marketing shall begin ten (10) business days prior to general marketing of the housing opportunity.

(4) Content − Affirmative fair housing marketing plans shall identify the content of the materials to be disseminated to potential applicants which at a minimum shall: (A) identify the location of the housing opportunity; (B) describe the housing opportunity; (C) identify when the application process shall begin and end; (D) encourage all potentially eligible applicants to apply; (E) include a contact person and telephone number; (F) display the fair housing logo and clearly state the entity's commitment to fair housing and non-discrimination in accordance with all applicable state, federal and local fair housing laws and regulations; (G) where there is any advertising depicting persons, depict persons of diverse demographic groups; (H) include a fair housing policy statement that satisfies the requirements of section 8-37ee-602 of the Regulations of Connecticut State Agencies; and (I) set forth how persons with disabilities may request a reasonable accommodation pursuant to section 46a-64c of the Connecticut General Statutes.

(5) Community contacts − Affirmative fair housing marketing plans shall identify community contacts, which contacts shall include individuals and organizations that are well known in the area and that can communicate with and assist those least likely to apply. These individuals and organizations may include, without limitation, religious organizations, housing counseling groups, legal services organizations, labor unions, minority and women's organizations, shelters, social service agencies, housing authorities, or town officials. Entities shall provide each community contact appropriate materials, as described in subdivision (4) of this subsection, with additional instructions, if necessary.

(6) Counseling and application assistance − Affirmative fair housing marketing plans shall provide that either the contact person or a housing counseling organization, fair housing officer or other similar party is trained in all applicable state, federal and local fair housing laws and regulations and the requirements of any such law or regulation and is ready and willing to assist all potential applicants, including those least likely to apply, and those who may need reasonable accommodation, with the application process.

(7) Follow-up − Affirmative fair housing marketing plans shall provide for follow-up meetings or reports from the various organizations and individuals listed in subdivision (5) of this subsection in order to evaluate the effectiveness of the affirmative fair housing marketing.

Where organizations determine that few potential applicants who are among the groups least likely to apply are displaying an interest, the entity, in coordination with the organizations and individuals shall consider alternative approaches set forth in subdivision (1) of this subsection.

(NEW) **Sec. 8-37ee-602. Fair housing policy statement and publication**

(a) Any entity subject to subtitle 8-37ee of the Regulations of Connecticut State Agencies shall adopt a fair housing policy statement prior to the receipt of housing agency funds, which statement shall include the following:

(1) The entity's commitment to promote fair housing choice and not to discriminate against any person as prohibited in sections 46a-64c, 46a-80c and 46a-81e of the Connecticut General Statutes. The entity shall specifically include the provisions of sections 46a-64c, 46a-80c and 46a-81e of the Connecticut General Statutes in the statement.

(2) The entity's commitment to promote demographic diversity in any housing opportunity developed or supported with housing agency funds the entity seeks or the entity's commitment to seek beneficiaries from diverse demographic groups as well as all protected classes identified by sections 46a-64c, 46a-80c and 46a-81e of the Connecticut General Statutes, and to seek a broad range of income eligible beneficiaries, whichever provision is relevant to the kinds of services provided by the entity.

(3) The name, title and contact information of the person assigned to ensure compliance with fair housing requirements.

(4) A discrimination complaint procedure which complies with the discrimination complaint procedure set forth in Part 3 of Chapter 814c of the Connecticut General Statutes, including a description of how a person with disabilities may request a reasonable accommodation pursuant to section 46a-64c of the Connecticut General Statutes.

(b) Before dissemination, the entity's Board President or other authorized individual shall sign the fair housing policy statement and

the entity shall obtain the approval of the housing agency of the statement.

(c) The entity shall prominently post the fair housing policy statement in the entity's offices in print and shall make the statement available electronically on the entity's social media sites or Internet web sites and also on the property where building or rehabilitation is taking place, as applicable.

(NEW) **Sec. 8-37ee-603. Modification of requirements**

(a) In the event that another funding program imposes fair housing requirements on an entity that differ from those set forth in subtitle 8-37ee of the Regulations of Connecticut State Agencies, and the housing agency determines that those requirements impose additional obligations on the entity to the requirements set forth in subtitle 8-37ee of the Regulations of Connecticut State Agencies, the entity shall follow the more stringent requirements.

(b) Where federal sources are also funding the housing opportunity, the entity shall also comply with all applicable federal fair housing regulations.

(c) Where the housing agency is funding minor rehabilitation, as such term is defined in accordance with the relevant housing opportunity, the entity shall consult with the housing agency, which shall determine applicability of these requirements.

(NEW) **Sec. 8-37ee-604. Post-occupancy affirmative marketing**

Following the initial period of lease-up, each entity shall continue to affirmatively market all applicable housing opportunities to those least likely to apply for the term of the use restriction concerning such housing opportunity recorded on the municipal land records, assistance agreement or regulatory agreement. All entities shall make every good faith effort to maintain a demographically diverse housing development.

(NEW) Secs. 8-37ee-605 – 8-37ee-700. Reserved.

Part 3
Affirmative Fair Housing Marketing Compliance

(NEW) **Sec. 8-37ee-701. Requisite approvals, notifications, and reports**

(a) For new housing opportunities, the entity shall submit an initial affirmative fair housing marketing plan and tenant selection plan as required by section 8-37ee-901 of the Regulations of Connecticut State Agencies at least ninety (90) days prior to implementation of such plans.

(b) For new housing opportunities, upon receipt of an initial affirmative fair housing marketing plan and tenant selection plan from the entity, the housing agency shall review each plan and, if the housing agency deems necessary, may schedule a preoccupancy conference. If necessary, the housing agency shall hold such preoccupancy conference prior to initiation of sales, rental, or other marketing activities. At the preoccupancy conference, the housing agency shall review the most recent previously approved plans with the entity to determine if the entity is required to modify the plans or their proposed implementation prior to initiation of marketing in order to achieve the objectives of subtitle 8-37ee of the Regulations of Connecticut State Agencies and the plans.

(c) For existing housing opportunities, the entity shall submit any modifications made to plans to the respective housing agency for review and approval at least sixty (60) days prior to implementation.

(d) Entities shall be required to collect data as identified in section 8-37bb of the Connecticut General Statutes from tenants, participants and persons on waitlists. The entity shall analyze the data collected as required by section 8-37bb of the Connecticut General Statutes and shall report such data to the housing agency annually, consistent with the requirements of and timeframes set forth by section 8-37bb or section 8-37qqq(a)(4)(B) of the Connecticut General Statutes, as applicable.

(NEW) **Sec. 8-37ee-702. Complaints**

Any person may file a complaint or complaints alleging violations of subtitle 8-37ee of the Regulations of Connecticut State Agencies or an approved affirmative fair housing marketing plan with the housing agency. The housing agency shall evaluate all complaints and take appropriate action

which may include, without limitation, a compliance meeting. The entity's affirmative fair housing marketing plan shall set forth how persons with disabilities may request a reasonable accommodation pursuant to section 46a-64c of the Connecticut General Statutes, to provide such persons with an opportunity to file a complaint under this section.

(NEW) **Sec. 8-37ee-703. Compliance meeting**

(a) If an entity fails to comply with the affirmative fair housing marketing plan requirements or it appears to the housing agency that the entity may not achieve the goals of the plan or that the implementation of the plan should be modified, the housing agency may schedule a compliance meeting with the entity.

(b) The purpose of the compliance meeting is to review the entity's compliance with the affirmative fair housing marketing plan requirements and the implementation of the plan and to indicate any changes or modifications which may be required in the entity's plan.

(c) The housing agency shall send a notice of the compliance meeting to the last known address of the entity by electronic or other means. The notice shall advise the entity of the right to respond not more than ten (10) business days after the date of the notice to the matters identified as subjects of the meeting and to submit information and relevant data evidencing compliance with subtitle 8-37ee of the Regulations of Connecticut State Agencies and the affirmative fair housing marketing plan.

(d) The entity shall provide, prior to or at the compliance meeting, specific documents, records and other information relevant to compliance. Such information shall include, at a minimum:

(1) Copies of all advertising in the relevant geographic areas as appropriate, including newspaper, radio, television, and electronic advertising;

(2) A photograph of the sale or rental sign at the site of construction, if applicable;

(3) A copy of the brochures and other printed materials used in connection with sales, rental, or participation in programs administered by the entity;

(4) Evidence of affirmative marketing to groups which are least likely to apply for the subject housing opportunity;

(5) Evidence of instructions to the entity's employees with respect to the entity's policy of nondiscrimination;

(6) A description of training conducted with the entity's staff;

(7) Evidence of nondiscriminatory hiring and recruiting policies for the entity's staff engaged in the sale, rental, or administration activities;

(8) Copies of applications and waiting lists of prospective buyers, renters, and participants maintained by the entity;

(9) Copies of sign-in lists maintained for prospective buyers and renters that expressed interest in the housing opportunities, if applicable;

(10) Copies of selection and screening criteria; and

(11) Copies of relevant sales or lease agreements.

(e) Based on the information provided pursuant to subsection (d) of this section, the housing agency shall notify the entity not more than twenty (20) business days after the compliance meeting whether the entity is in compliance with subtitle 8-37ee of the Regulations of Connecticut State Agencies or affirmative fair housing marketing plan, or if the matters raised at the compliance meeting cannot be resolved.

(f) If the entity cannot resolve the matters raised at the compliance meeting, the housing agency may conduct a comprehensive compliance review as set forth in section 8-37ee-704 of the Regulations of Connecticut State Agencies.

(g) If the entity fails to attend the scheduled compliance meeting, the housing agency shall notify the entity no later than ten (10) business days after the date of the scheduled meeting, in writing, by electronic means or otherwise, and shall advise the entity as to whether a comprehensive compliance review shall be conducted.

(NEW) **Sec. 8-37ee-704. Compliance reviews**

(a) The housing agency or its agent may conduct compliance reviews.

(b) Even in the absence of a complaint or other information indicating noncompliance, the housing agency may conduct periodic compliance reviews throughout the term of the applicable use restriction concerning such housing opportunity recorded on the

municipal land records, assistance agreement, or regulatory agreement for an entity receiving state financial assistance from a housing agency, or at any time during the period an entity is subject to the terms of a contract with a housing agency to administer a program on behalf of a housing agency.

(c) The purpose of a compliance review is to determine whether the entity is in compliance with the housing agency's requirements and the approved affirmative fair housing marketing plan. The housing agency shall give the entity at least five (5) business days' notice of the time set for any compliance review and the place or places for such review.

(d) The compliance review shall cover the following areas:

(1) Sales and rental practices, including practices in soliciting buyers, tenants, applicants, and participants, determining eligibility, selecting and rejecting buyers, renters, and participants and concluding sales and rental transactions, where applicable;

(2) Activities to attract demographically diverse buyers, renters, and participants, including the use of advertising media, brochures, pamphlets, and fair housing posters;

(3) Data relating to the size and location of units, services provided, sales or rental price ranges and other matters relating to the marketing of housing opportunities;

(4) The demographic composition of buyers, renters or participants; and

(5) The demographic composition of staff engaged in the sale or rental of housing opportunities.

(e) If, as of the time of the compliance review, the entity has not submitted the materials identified in section 8-37ee-703(d) of the Regulations of Connecticut State Agencies, the housing agency may request that the entity provide such materials at the time of the compliance review.

(f) Following the compliance review, the housing agency or its agent shall prepare a report and provide a copy of such report to the entity.

(g) Whenever a finding of noncompliance is made, the report prepared by the housing agency or its agent shall list specifically the violations

found and shall indicate that the entity shall have thirty (30) business days to appeal such findings and request a hearing with the housing agency pursuant to section 8-37ee-705 of the Regulations of Connecticut State Agencies.

(h) If the entity does not appeal a finding of noncompliance, the housing agency shall coordinate with the entity to achieve compliance and may invoke the terms of default set forth in the specific financial agreement between the entity and the housing agency governing the applicable financial assistance or program.

(NEW) **Sec. 8-37ee-705. Hearings**

(a) An entity may request a hearing in connection with a finding of noncompliance following a compliance review pursuant to section 8-37ee-704 of the Regulations of Connecticut State Agencies.

(b) The housing agency shall hold all hearings pursuant to Part 3 of subtitle 8-37ee of the Regulations of Connecticut State Agencies in accordance with the Uniform Administrative Procedure Act, section 4-166 et seq. of the Connecticut General Statutes.

(NEW) **Sec. 8-37ee-706. Annual monitoring**

(a) Each entity shall submit annual updates on whether the entity's goals as set forth in its affirmative fair marketing plan have been met and whether each entity has been able to sustain its goals. The entity shall submit such annual update not later than March 1, annually.

(b) Upon review of the information submitted under subsection (a) of this section, the housing agency may schedule a compliance meeting or compliance review and may require remedial action as the housing agency deems necessary.

(c) Each entity shall retain all records of all affirmative fair marketing, tenant selection, and waitlists for at least five (5) years or the time period set forth in any applicable agreement with the housing agency.

(d) The housing agency may monitor entities on a yearly basis for compliance with the provisions of subtitle 8-37ee of the Regulations of Connecticut State Agencies and may be subject to additional on-site monitoring.

(NEW) Secs. 8-37ee-707 – 8-37ee-800. Reserved.

Part 4
Applications and Waitlists

Application Process

(NEW) **Sec. 8-37ee-801. Application process for initial occupancy or participation**

(a) Entities shall provide an application period for any housing opportunity that extends for at least ninety (90) days before initial occupancy or participation in a program administered by the entity for a new housing opportunity. The entity shall establish an application deadline which sets forth the date by which all applications shall be completed and returned. The entity shall not consider applications received after the deadline unless: (1) there is an insufficient number of initial applicants; or (2) the housing agency determines that more affirmative marketing is necessary.

(b) Entities shall create and use a standard application form that conforms with all applicable state and federal laws and make available a copy of such application if requested by the housing agency.

(c) Entities shall provide the opportunity for any person seeking to apply for any housing opportunity during the application period to do so.

(d) Applications shall set forth how persons with disabilities may request a reasonable accommodation pursuant to section 46a-64c of the Connecticut General Statutes to provide such persons with an opportunity to apply.

(e) Entities shall date and time stamp each application received upon receipt. Entities shall give each applicant a receipt with the date and time on it upon request.

(f) Entities shall assign a control number to each application received.

(g) Entities shall create a separate record for each application. The record contents shall be considered confidential.

(h) An entity may begin application evaluation upon receipt of applications at its discretion consistent with the requirements of Part 5 of subtitle 8-37ee of the Regulations of Connecticut State Agencies.

(NEW) **Sec. 8-37ee-802. Insufficient number of least likely to apply applicants**

(a) If the housing agency finds, at any time, that there is an insufficient number of least likely to apply applicants due to a lack of evidence of efforts of good faith affirmative fair housing marketing, it shall have the right to require additional marketing by the entity until such time as the housing agency determines that a sufficient effort has been expended or a sufficient number of applicants is available. Such additional marketing may delay the initial creation of a waitlist.

(b) Where the housing agency determines that sufficient evidence of good faith efforts exists and there is still an insufficient number of eligible applicants who are least likely to apply, the housing agency may permit the entity to rent or sell units or extend participation in the program administered by the entity to other eligible applicants.

(c) The housing agency's determination of the entity's good faith efforts shall include, without limitation, substantiating: that the dissemination of information to potential applicants included in its affirmative fair housing marketing plan was actually completed; that such efforts met time and durational requirements; that the marketing approach was amended or enhanced when found deficient; and that there were particular local, regional, or market reasons for the failure of the affirmative fair housing marketing plan to attract a sufficient pool of applicants who are least likely to apply. The entity shall develop and maintain adequate documentation of its good faith efforts in a manner prescribed by the housing agency.

Waitlist Requirements

(NEW) **Sec. 8-37ee-803. How waitlists are created**

(a) After the tenant application period is closed consistent with section 8-37ee-801(a) of the Regulations of Connecticut State Agencies, each entity shall create, maintain and revise a list of applications as set forth in Part 4 of subtitle 8-37ee of the Regulations of Connecticut State Agencies.

(b) The entity shall compile all control numbers assigned to applications as set forth in section 8-37ee-801(f) of the Regulations of Connecticut State Agencies and shall assign a numerical position to each application on the waitlist by random selection. The randomly-selected numerical position shall constitute an applicant's number on

the waitlist. The entity shall maintain a master list correlating the control number of each application on the waitlist with the underlying application.

(NEW) **Sec. 8-37ee-804. Maintenance of waitlists**

(a) Entities shall maintain waitlists in the randomly-selected order by which the applicants have been assigned. The waitlist shall include columns for the waitlist number, the control number, and the status of the application and may also include the unit size sought and any preferences established by the entity, as set forth in section 8-37ee-807 of the Regulations of Connecticut State Agencies.

(b) Sample waitlist

-SAMPLE ONLY-
Waitlist In Rank Order

Rank	Control Number	Application Date	Bedrooms Requested	Current Status
1	A439	3/1/2015	Any	Housed
2	A830	3/1/2015	Any	Ineligible
3	A090	3/1/2015	2 Bedroom	Refused Unit Offered (1)
4	A843	3/1/2015	1 Bedroom	Housed
5	A999	3/1/2015	Any	Withdrew – Applicant
6	A002	3/1/2015	Any	Withdrew – Purge
7	A038	3/1/2015	Any	Housed
8	A227	3/1/2015	2 bedroom	Refused Unit Offered (3) – Purge
9	B624	7/1/2016	2 Bedroom	
10	B111	7/1/2016	1 Bedroom	
11	B090	7/1/2016	1 Bedroom	
12	B783	7/1/2016	2 Bedroom	
13	B892	7/1/2016	1 Bedroom	
14	C323	12/1/2017	1 Bedroom	
15	C112	12/2/2017	2 Bedroom	
16	C060	12/3/2017	3 Bedroom	
17	C743	12/4/2017	Any	
18	C220	12/4/2017	Any	

(c) Each entity shall keep and maintain all waitlists, including revisions of such lists, in its custody at its regular office or place of business in a location that can be accessed by the public during regular business hours.

(NEW) **Sec. 8-37ee-805. Opening a new tenant application period**

(a) When the entity elects to commence a new tenant applicant application period, the entity shall announce notice of such action in accordance with the advertising and marketing activities described in the latest approved affirmative fair housing marketing plan.

(b) Entities that elect to market on a continuous basis may, in lieu of the notice referenced in subsection (a) of this section, include in such continuous marketing materials or in the application, notice of the schedule by which application periods open and close.

(c) Entities shall schedule application periods as frequently as necessary to manage their waitlist with sufficient applicants to ensure timely occupancy of vacant units or participation in the program administered by the entity in available housing opportunities.

(d) All application periods shall have clear opening and closing dates. After the closing of any application period, entities shall use applications received during that period to generate a waitlist as set forth in section 8-37ee-803(b) of the Regulations of Connecticut State Agencies. When an application period is closed, the entity shall not take additional applications and shall notify anyone inquiring about occupancy of the closure.

(e) Entities shall append a waitlist generated from a new application period after the last applicant in the existing waitlist with applicants from the new application period to follow, in numerical order, after previously existing entries.

(f) An entity may close the application period prior to the application deadline for one (1) or more unit sizes when the number of applications received exceeds the number of housing opportunities available by at least three (3) times, and at least twenty (20) percent of applicants are least likely to apply, as defined in the entity's affirmative fair housing marketing plan. The entity may include in the notice of the opening of the application period that the application period may be closed early. The entity shall publicize any early closure of the application period in the same manner the notice of the opening of the application period was publicized, in accordance with the entity's affirmative fair housing marketing plan.

(NEW) **Sec. 8-37ee-806. Filling from the waitlist**

(a) Within its area of operation, each entity shall use its waitlist to fill vacant dwelling units or available housing opportunities.

(b) Once the waitlist sequence is determined, entities shall select applicants from the waitlist in order, matching households to units according to household size and number of bedrooms, other than where preferences are applied, as set forth in section 8-37ee-807 of the Regulations of Connecticut State Agencies.

(c) When an entity selects applicants from the waitlist based on the numerical sequence of the waitlist or the application of preferences, as appropriate, the entity shall determine the eligibility of the applicant to be housed, as set forth in sections 8-37ee-905 and 8-37ee-906 of the Regulations of Connecticut State Agencies.

(NEW) **Sec. 8-37ee-807. Assigning preferences**

(a) Assigning preferences to applicants who meet certain criteria is a method intended to provide housing opportunities to applicants based upon household characteristics. Entities may identify categories of preference for the selection of tenants subject to the approval of the housing agency, in accordance with all applicable federal, state, and local fair housing and civil rights laws.

(b) Entities shall inform all applicants about available preferences and give all applicants an opportunity to show that they qualify for available preferences.

(c) If an entity identifies a category or categories of preferences for the selection of tenants approved by the housing agency, the entity shall denote such preferences on the waitlist entry for applicants who qualify for such preference or preferences at the time of their application. The entity shall re-evaluate an applicant's qualification for such preference or preferences at the time of tenant selection, pursuant to section 8-37ee-904(a) of the Regulations of Connecticut State Agencies.

(d) Entities shall inform all applicants of the way in which persons with disabilities may request a reasonable accommodation pursuant to section 46a-64c of the Connecticut General Statutes to provide such persons with an opportunity to show that they qualify for available preferences.

(e) Although an entity may establish preferences to admit households with specific characteristics from the waitlist, the entity shall not deny applicant selection or assistance based upon an applicant's

membership in a protected class set forth in section 46a-64c, 46a-80c or 46a-81e of the Connecticut General Statutes.

(f) The entity's application of preferences shall comply with all applicable federal, state and local fair housing and civil rights laws and with all applicable civil rights related program requirements.

(NEW) **Sec. 8-37ee-808. Management of waitlists**

(a) Each entity shall manage and update its waitlist from time to time, not less frequently than every two (2) calendar years, so as to reflect the most current status of applicants.

(b) Entities shall regularly monitor the vacancies in their properties and other housing opportunities in correlation with their waitlists to ensure that there are enough applicants to fill the housing opportunities.

(NEW) **Sec. 8-37ee-809. Access to waitlists**

Entities shall allow any person to inspect waitlists promptly during regular office or business hours, or to receive a copy of such lists, subject to any limitations set forth in section 8-345d of the Connecticut General Statutes.

(NEW) Secs. 8-37ee-810 – 8-37ee-900. Reserved.

Part 5
Tenant Selection

(NEW) **Sec. 8-37ee-901. Tenant selection plan**

(a) Entities shall develop a written tenant selection plan that describes the tenant selection process the entity intends to use. An entity shall include in such plan, at a minimum, the following:

(1) Descriptions of eligibility requirements for selection;

(2) A list of any preferences the entity shall apply and the procedures for applying any such preferences;

(3) Applicant screening criteria and the grounds on which the entity may reject applicants;

(4) Procedures for the entity's selection of applicants from the waitlist;

(5) A policy for opening and closing application periods for the waitlist;

(6) Unit transfer policies, including selection of in-place residents versus applicants from the waitlist when vacancies occur and the application of the unit transfer policy where reasonable accommodation is granted;

(7) The method for selection of a hearing officer or hearing panel as set forth in section 8-37ee-907(b)(1) of the Regulations of Connecticut State Agencies;

(8) Applicable state, federal and local fair housing laws and regulations and nondiscrimination requirements; and

(9) The procedures through which persons with disabilities can request a reasonable accommodation pursuant to section 46a-64c of the Connecticut General Statutes.

(b) Entities shall review tenant selection plans not less than once every five (5) years from the adoption of the most recent tenant selection

plan to ensure that they reflect current operating practices and program priorities.

(c) Entities shall allow any person to inspect a tenant selection plan promptly during regular office or business hours, or to receive a copy of such lists, subject to any limitations set forth in section 8-345d of the Connecticut General Statutes.

(NEW) **Sec. 8-37ee-902. Occupant guideline**

(a) Entities shall use the following guideline to determine the minimum applicable bedroom size for the applicant household:

Bedroom Size	Minimum Applicant Household
00 (single room occupancy)	1
0 (efficiency unit)	1
1	1
2	2
3	3
4	5

(b) The State Building Code shall govern maximum occupancy of a unit.

(NEW) **Sec. 8-37ee-903. Selection from waitlist**

(a) When a housing opportunity becomes available, the entity shall select the next applicant from the waitlist based on the occupant guideline, set forth in section 8-37ee-902 of the Regulations of Connecticut State Agencies, applicable preferences, if any, income-targeting policies and requirements, and screening policies applied by the entity. The entity shall select the first applicant on the waitlist for the appropriate housing opportunity and make a determination of eligibility and suitability for tenancy based on the applicant screening provisions contained in section 8-37ee-909 of the Regulations of Connecticut State Agencies.

(b) The entity shall select an applicant from the waitlist at least thirty (30) days before a housing opportunity is available to prevent vacancies.

(NEW) **Sec. 8-37ee-904. Applying preferences to tenant selection**

(a) Entities shall select applicants in the order of the waitlist, applying those with preferences first in the order they appear on the waitlist, and consistent with the occupant guideline set forth in section 8-37ee-902 of the Regulations of Connecticut State Agencies.

(b) If an entity elects to adopt more than one preference, a ranking, rating, or combination of preferences shall be identified in the tenant selection plan and consistently applied.

(c) If an entity determines that there are an insufficient number of applicants eligible to fill all the housing opportunities for which a preference is applicable, the entity shall make such remaining housing opportunities available in accordance with the waitlist to eligible applicants that remain without regard to the preferences established.

(NEW) **Sec. 8-37ee-905. Eligibility**

When an applicant is selected from the waitlist, the entity shall determine the applicant's eligibility to ensure the applicant meets all of the criteria for the housing opportunity.

(NEW) **Sec. 8-37ee-906. Ineligible applicants**

(a) The entity shall notify applicants deemed ineligible for a housing opportunity, for whatever reason or reasons, in writing not more than five (5) business days after such determination, except as otherwise set forth in section 17b-812-14 of the Regulations of Connecticut State Agencies, of the reason or reasons for such determination of ineligibility, including sufficient specific and detailed information concerning the reasons for the denial, and of their right to request a hearing and to informally contest the determination. Such written notice shall include the deadline for requesting a hearing and for informally contesting the determination, the process for requesting a hearing and for informally contesting the determination, the right to request all documents and information relied upon in determining ineligibility, and the process for persons with disabilities to request a reasonable accommodation pursuant to section 46a-64c of the Connecticut General Statutes.

(b) Applicants determined to be ineligible for a housing opportunity who request a hearing shall be entitled to a hearing before the entity's hearing officer or hearing panel, as applicable, as set forth in sections 8-37ee-907 and 8-37ee-908 of the Regulations of

Connecticut State Agencies, except as otherwise set forth in section 17b-812-14 of the Regulations of Connecticut State Agencies.

(c) Concurrent with the right to request a hearing, applicants determined to be ineligible for a housing opportunity shall have ten (10) business days from the date of the written determination of ineligibility to informally contest the determination of ineligibility with the entity. An applicant may informally contest a determination of ineligibility by contacting the entity in writing, by electronic communication, or orally, to explain the reason the applicant believes the determination was in error. The entity shall document the date on which an applicant contacts the entity to informally contest a determination and the applicant's reason for contesting the determination.

(d) The determination of ineligibility shall state that informally contesting the determination shall not extend the time in which applicants may request a hearing pursuant to section 8-37ee-907(a) of the Regulations of Connecticut State Agencies. Entities shall inform applicants that a determination of ineligibility should be contested immediately to assure their return to the applicant pool should they prevail.

(e) Not more than five (5) business days after the date on which an applicant informally contests a determination of ineligibility, entities shall notify applicants in writing of whether the determination of ineligibility has been upheld. In the event an applicant does not prevail after informally contesting the determination of ineligibility, such written notice shall state the time remaining in which the applicant may request a hearing pursuant to section 8-37ee-907(a) of the Regulations of Connecticut State Agencies.

(f) Persons with disabilities may request a reasonable accommodation pursuant to section 46a-64c of the Connecticut General Statutes to provide such persons with an opportunity to informally contest the determination.

(NEW) **Sec. 8-37ee-907. Procedures to request a hearing for ineligible applicants**

(a) Request for hearing. To be entitled to a hearing, any applicant determined to be ineligible for a housing opportunity shall submit a written request for a hearing to the entity not more than thirty (30) days after the date of the written determination of ineligibility,

except as otherwise set forth in section 17b-812-14 of the Regulations of Connecticut State Agencies. Such written request shall specify the reason for challenging the determination.

(b) Selection of hearing officer or hearing panel. An impartial person or persons other than the person who made or approved the entity's action or a subordinate of such person shall conduct a hearing. An officer or member of the entity's governing body may be considered to be an impartial person, subject to evaluation pursuant to subdivision (2) of this subsection. The entity's selection of the hearing officer or the hearing panel shall comply with the following:

(1) The entity shall state the method or methods for appointment of the hearing officer or the members of the hearing panel in the tenant selection plan.

(2) The entity shall select the hearing officer or the members of the hearing panel in the manner required under the tenant selection plan. In the event that the applicant objects to the original appointment of the person or persons selected, the entity shall propose the appointment of an alternate hearing officer.

(3) In the event the method for the appointment of a hearing officer or members of the hearing panel in accordance with subdivision (2) of this subsection fails to produce a hearing panel or hearing officer, as appropriate, not more than thirty (30) days after the applicant's written request for a hearing, the entity shall be required to procure and pay for the services of a firm or organization that is in the business of providing such hearing officer services, where such firm or organization has no discernable conflict of interest with the entity. Such professional hearing officer shall be deemed to be impartial and will constitute the final selection in such cases.

(c) Failure to request a hearing. If the applicant does not request a hearing in accordance with subsection (a) of this section, the entity's determination of ineligibility under section 8-37ee-906 of the Regulations of Connecticut State Agencies shall become final, provided, however, the failure to request a hearing shall not constitute a waiver by the applicant of his or her right thereafter to contest the entity's determination of ineligibility in an appropriate judicial proceeding or an appropriate state agency administrative proceeding.

(d) Scheduling of hearings. Upon the applicant's compliance with subsection (a) of this section, the hearing officer or hearing panel shall promptly schedule a hearing for a date not more than sixty (60) days after the entity's receipt of the applicant's written request pursuant to subsection (a) of this section, except as otherwise set forth in section 17b-812-14 of the Regulations of Connecticut State Agencies, for a time and place reasonably convenient to both the applicant and the entity. The hearing officer or hearing panel shall deliver a written notice specifying the time, the place and a copy of the procedures governing the hearing consistent with section 8-37ee-908 of the Regulations of Connecticut State Agencies to the applicant and the appropriate entity representative.

(e) Persons with disabilities may request a reasonable accommodation pursuant to section 46a-64c of the Connecticut General Statutes to permit such persons to avail themselves of the procedures set forth in this section.

(NEW) **Sec. 8-37ee-908. Procedures governing the hearing for ineligible applicants**

(a) Each entity shall afford a fair hearing to any applicant deemed to be ineligible for a housing opportunity administered by the entity and shall adopt a written policy concerning such hearings. The policy shall provide for:

(1) A reasonable opportunity prior to the hearing to examine any documents, records, or regulations directly relevant to the hearing. The applicant shall be allowed to copy any such document at the applicant's expense. At the hearing, the entity shall not discuss any document not made available to the applicant after a request by the applicant;

(2) The right to be represented by counsel or other person chosen as his or her representative;

(3) The right to a private hearing unless the applicant requests a public hearing;

(4) The right to present evidence and arguments in support of the appeal, to contest evidence presented by the entity and to confront and cross-examine all witnesses on whose testimony or information the entity relies; and

(5) A decision based solely and exclusively upon the facts, documents, records, regulations and testimony presented at the hearing.

(b) If the applicant or the entity fails to appear at a scheduled hearing, the hearing officer or the hearing panel may make a determination to postpone the hearing for a period not to exceed five (5) business days or may make a determination that the non-appearing party has waived the right to a hearing. The hearing officer or hearing panel shall notify both the applicant and the entity. If the hearing officer or hearing panel determines that either the applicant or the entity has waived the right to a hearing, such waiver shall not constitute a waiver of the applicant's right to contest the entity's determination of ineligibility in an appropriate judicial proceeding.

(c) The hearing officer or hearing panel shall conduct the hearing informally. The hearing officer or hearing panel may consider oral or documentary evidence relevant to the facts and issues raised by the applicant without regard to admissibility under the rules of evidence applicable to judicial proceedings. The hearing officer or the hearing panel, as appropriate, shall require the entity, the applicant, counsel for the respective parties and other participants or spectators, if any, to conduct themselves in an orderly manner. Failure to comply with the direction of the hearing officer or the hearing panel, as appropriate, to obtain order may result in exclusion from the hearing or a decision adverse to the interests of the disorderly party and granting or denial of the relief sought, as appropriate.

(d) The entity shall audio or video record all hearings and digitally store and maintain all such recordings.

(e) The applicant or the entity may arrange, at the expense of the party making the request, for a transcript or copy of the recording of the hearing. Any party to the hearing or legally authorized representative of such person may purchase a copy of such transcript or recording.

(f) Persons with disabilities may request a reasonable accommodation pursuant to section 46a-64c of the Connecticut General Statutes to provide such persons with an opportunity to participate in the hearing. Reasonable accommodations may include qualified sign language interpreters, readers, accessible locations or attendants. If

the applicant is visually impaired, any required notice to the applicant shall be in an accessible format.

(g) The hearing officer or hearing panel, as appropriate, shall issue a final decision to the applicant in writing not more than thirty (30) days after the hearing, except as otherwise set forth in section 17b-812-14 of the Regulations of Connecticut State Agencies. The decision shall include a statement of the reason for the decision, and shall inform the applicant of their right to petition for review of the decision pursuant to subsection (h) of this section.

(h) Entities shall inform an applicant who does not prevail at the hearing in writing of the final determination of their right to petition for review the decision of the hearing officer or hearing panel, as appropriate, to the department. An applicant shall submit in writing such petition for review. Any such petition shall be faxed, submitted electronically or postmarked not more than seven (7) business days after the adverse decision. The department shall consider the petition for review based on written information submitted to the department and shall not provide an additional hearing.

(i) Entities shall keep the following materials on file for at least three (3) years: (1) application; (2) initial ineligibility notice; (3) any applicant reply; (4) the entity's final determination response; and (5) all verified information on which the ineligibility determination was based.

(NEW) **Sec. 8-37ee-909. Applicant screening**

(a) When an entity selects an applicant from the waitlist and determines that the applicant is eligible for the housing opportunity, or upon receipt of an application, at the entity's discretion, the entity may elect to screen applicants. Entities may identify screening criteria in accordance with the approved tenant selection plan.

(b) Entities may consider extenuating circumstances in evaluating information obtained during the screening process to assist in determining the suitability of an applicant for a housing opportunity. An entity may adopt a policy to consider extenuating circumstances that would allow acceptance of an applicant whom the entity would otherwise reject, but an entity shall not have a policy to consider extenuating circumstances to reject an applicant who would otherwise be eligible.

(c) If screening criteria is used, entities shall apply screening criteria consistently to all applicants.

(d) Screening shall comply with all applicable federal, state and local fair housing and civil rights laws.

(NEW) **Sec. 8-37ee-910. Nondiscrimination in selection process**

An entity, in determining the types of housing, accommodations, facilities, services, financial aid, or other benefits which will be provided under any such program or activity, or the class of persons to whom, or the situations in which, such housing, accommodations, facilities, services, financial aid, or other benefits will be provided under any such program or activity, or the class of persons to be afforded an opportunity to participate in any such program or activity, shall not, directly or through contractual or other arrangements, utilize criteria or methods of administration which have the effect of denying any applicant's selection or assistance in violation of section 46a-64c, 46a-80c or 46a-81e of the Connecticut General Statutes.

Sec. 2. Section 8-30g-1(1) of the Regulations of Connecticut State Agencies is amended to read as follows:

(1) ["Affirmative fair housing marketing plan" means a plan to attract, as tenants or purchasers of both market-rate and price-restricted units in an affordable housing development, members of racial and ethnic groups who reside within the metropolitan statistical area or non-metropolitan statistical area within which the affordable housing development is located, but who are least likely to apply, as defined in section 8-37ee of the Regulations of Connecticut State Agencies, for occupancy within such development;] "Affirmative fair housing marketing plan" means the information provided by an entity, in a form and manner prescribed by the housing agency, setting forth its plan to comply with the requirements set forth in Parts 1 to 3, inclusive, of subtitle 8-37ee of the Regulations of Connecticut State Agencies, as set forth in section 8-37ee-502 of the Regulations of Connecticut State Agencies;

Sec. 3. Section 8-30g-7(a)(3) of the Regulations of Connecticut State Agencies is amended to read as follows:

(3) With respect to an affirmative fair housing marketing plan filed in accordance with an affordable housing development application, the provisions of [sections 8-37ee-1 et seq.] subtitle 8-37ee of the Regulations of Connecticut State Agencies, and particularly [sections 8-37ee-301 and 302] section 8-37ee-501 and section 8-37ee-502 of the Regulations of Connecticut State Agencies, shall serve as the basis for such plan, provided that such regulations, including the procedures therein, shall be guidelines, not requirements. Collection and dissemination of information about available price restricted and market rate dwelling units shall include, at a minimum:
(A) Analyzing census and other data to identify racial and ethnic groups least represented in the population;
(B) Announcements/advertisements in publications and other media that will reach minority populations;
(C) Announcements to social service agencies and other community contacts serving low-income minority families in the region (including churches, civil rights organizations, housing authorities, and legal services organizations);

(D) Assistance to minority applicants in processing applications;
(E) Marketing efforts in geographic area of high minority concentrations within the housing market area;
(F) Beginning marketing efforts prior to general marketing of units, and repeating again during initial marketing, at fifty percent (50%) completion, and thereafter at reasonable period intervals with respect to resales or re-rentals; and
(G) Collection of basic racial and ethnic information for all residents and persons on the wait list for the development.

Sec. 4. The Regulations of Connecticut State Agencies are amended by adding section 8-45-16 as follows:

(NEW) Sec. 8-45-16. Waitlists for low rental projects

The provisions of sections 8-37ee-801 to 8-37ee-809, inclusive, of the Regulations of Connecticut State Agencies shall govern waitlist requirements.

Sec. 5. Section 8-72-3 of the Regulations of Connecticut State Agencies is amended to read as follows:

Sec. 8-72-3. [Implementation] Waitlists

[The provisions of Section 8-45-10, through 8-45-15, inclusive, except as otherwise provided, shall govern the implementation of Moderate Rental Waiting lists.] The provisions of sections 8-37ee-801 to 8-37ee-809, inclusive, of the Regulations of Connecticut State Agencies shall govern waitlist requirements.

Sec. 6. Section 8-116a-3 of the Regulations of Connecticut State Agencies is amended to read as follows:

Sec. 8-116a-3. [Implementation] Waitlists

[The provisions of Section 8-45-10, through 8-45-15, inclusive, except as otherwise provided, shall govern the implementation of elderly housing waiting lists.] The provisions of sections 8-37ee-801 to 8-37ee-809, inclusive, of the Regulations of Connecticut State Agencies shall govern waitlist requirements.

Sec. 7. Section 8-119g-15 of the Regulations of Connecticut State Agencies is amended to read as follows:

Sec. 8-119g-15. [Implementation] Waitlists

[The provisions of Section 8-45-10, through 8-45-15, inclusive, except as otherwise provided, shall govern the implementation of Congregate Housing waiting lists.] The provisions of sections 8-37ee-801 to 8-37ee-809, inclusive, of the Regulations of Connecticut State Agencies shall govern waitlist requirements.

Sec. 8. Section 8-214h-10 of the Regulations of Connecticut State Agencies is amended to read as follows:

Sec. 8-214h-10. [Waiting list] Waitlists

[(a) The developer/Board of Directors shall provide a receipt to each applicant to its project(s) stating the time and date of the application and assigning the applicant an identifying number which shall be recorded on the receipt and on the application for admission.

(b) The developer/Board of Directors shall create and maintain a waiting list of such applications and procedures for selecting residents from such list as approved by the Commissioner, which shall include the applicant's identifying number, the time and date the application was received by the developer and the size of the dwelling unit required by the applicant. Such list shall be a public record as defined in Section 1-18a of the Connecticut General Statutes.

(c) The developer/Board of Directors shall, from time to time, but no less than once each calendar year, revise and update the waiting list(s) so as to reflect the most current status of applicants.

(d) The developer/Board of Directors shall maintain a copy of the waiting list(s) and revisions to such list(s) at its office in the State of Connecticut or, if no such office exists, at the office of the town clerk in the municipality in which the project is located. Such list(s) shall be provided to the Commissioner or his representative upon his request.]

The provisions of sections 8-37ee-801 to 8-37ee-809, inclusive, of the Regulations of Connecticut State Agencies shall govern waitlist requirements.

Sec. 9. Section 8-346-9 of the Regulations of Connecticut State Agencies is amended to read as follows:

Sec. 8-346-9. [Waiting list] Waitlists

[(a) The developer or owner shall provide a receipt to each applicant stating the time and date of the application and assigning the applicant an identifying number which shall be recorded on the receipt and on the application for admission.
(b) The developer or owner shall create and maintain a list of applications which shall include the applicant's identifying number, the time and date the application was received by the developer or owner and the size of the dwelling unit required by the applicant. Such list shall be a public record as defined in Section 1-18a of the Connecticut General Statutes.
(c) The developer or owner shall, from time to time, but no less than once each calendar year, revise and update this list to create a waiting list which reflects the most current status of applicants.
(d) The developer or owner shall maintain a copy of the waiting list(s) and revisions to such list(s) at its office at the site of the development or, if no such office exists, at the office of the town clerk in the municipality in which the development is located. Such list(s) shall be provided to the Commissioner upon his request.]
The provisions of sections 8-37ee-801 to 8-37ee-809, inclusive, of the Regulations of Connecticut State Agencies shall govern waitlist requirements.

Sec. 10. Sections 8-37ee-1 to 8-37ee-314, inclusive, of the Regulations of Connecticut State Agencies are repealed.

Sec. 11. Sections 8-45-8 to 8-45-15, inclusive, of the Regulations of Connecticut State Agencies are repealed.

Sec. 12. Sections 8-72-1 and 8-72-2 of the Regulations of Connecticut State Agencies are repealed.

Sec.13. Sections 8-116a-1 and 8-116a-2 of the Regulations of Connecticut State Agencies are repealed.

Sec. 14. Sections 8-119g-13 and 8-119g-14 of the Regulations of Connecticut State Agencies are repealed.

Statement of Purpose:

(A) The problems, issues or circumstances that the regulation proposes to address: Based on discussions with the United States Department of Housing and Urban Development (HUD) and stakeholders in the community, the Department of Housing (the Department) sought to modify and update fair housing requirements to be consistent with current law and to eliminate housing practices with potentially discriminatory impact. In addition, a review of the current fair housing regulations reflects that provisions related to how waitlists are created and maintained are scattered throughout the Regulations of Connecticut State Agencies. The proposed regulation seeks to consolidate all regulations relating to affirmatively furthering fair housing, waitlists and tenant selection in one place in order to make it clear and easy to understand the full universe of fair housing-related regulations and to ensure consistency among all housing opportunities.

(B) Summary of the main provisions of the regulation: The main provisions of the proposed regulation set forth (1) the requirements of an affirmative fair marketing program, plan, and process, (2) compliance procedures in connection with affirmative fair housing marketing, (3) guidelines governing the application process for housing opportunities, (4) the process for creating and maintaining waitlists, including the requirement to generate such waitlists by means of a random lottery method, (5) requirements governing the selection of tenants, including a tenant selection plan, eligibility review, the process for an applicant to challenge an eligibility preference, and the application of preferences to the tenant selection process.

(C) Legal effects of the regulation: The regulation requires entities to create waitlists based on a random lottery system, eliminating entities' ability to choose between a random lottery and a point system selection method. It further eliminates the ability of entities to adopt a residency preference or a preference for those least likely to apply for a housing opportunity, although it continues to require entities to market housing opportunities to those least likely to apply. The regulations make clear that no housing preference may be in violation of the state laws prohibiting nondiscrimination in housing practices. The proposed regulations will repeal outdated sections 8-37ee-1 through 8-37ee-314, sections 8-45-8 through 8-45-15, sections 8-72-1 through 8-72-2, sections 8-116a-1 through

8-116a-2 and sections 8-119g-13 through 8-119g-14 of the Regulations of Connecticut State Agencies, will add new sections 8-37ee-401 through 8-37ee-910 and Section 8-45-16 of the Regulations of Connecticut State Agencies, and will amend sections 8-72-3, 8-116a-3, 8-119g-15 and 8-214h-10 of the Regulations of Connecticut State Agencies.

Form Agency-Cert-PR-TA-ICM (Rev 11/2017)
State of Connecticut
Secretary of the State

IMPORTANT NOTICE FOR CONNECTICUT STATE AGENCIES
This form is to be used for proposed permanent and technical amendment regulations only and must be completed in full.

AGENCY CERTIFICATION

Department of Housing

Proposed Regulation Concerning

Fair Housing Regulations

eRegulations System Tracking Number **PR2022-033**

I hereby certify the following:

(1) The above-referenced **regulation** is proposed pursuant to the following statutory authority or authorities: **Conn. Gen Stat. § 8-37x(i), Conn. Gen. Stat. § 8-37cc(b)**

For technical amendment regulations proposed without a comment period, complete #2 below, then skip to #8.

(2) As permitted by Section 4-168(h) of the *Connecticut General Statutes*, the agency elected to proceed without prior notice or hearing and posted the text of the proposed technical amendment regulation on eRegulations System website on **<<select and enter the date of posting>>**.

For all other non-emergency proposed regulations, complete #3 - #7 below, then complete #8)

(3) The agency posted notice of intent with a specified comment period of not less than 30 days to the eRegulations System website on **August 21, 2023**.

(4) *(Complete one)* ☒ No public hearing held or was required to be held. **OR** ☐ One or more public hearings were held on: **<<select and enter dates>>**.

(5) The agency posted notice of decision to move forward with the proposed regulation to the eRegulations System website on **October 2, 2023**.

(6) *(Complete one)* ☒ No comments were received. **OR** ☐ Comments were received and the agency posted the statements specified in subdivisions (1) and (2) of CGS Section 4-168(e) to the eRegulations System website on **<<select and enter date>>**.

(7) The final wording of the proposed regulation was posted to the eRegulations System website on **August 29, 2024**.

---

(8) Subsequent to approval for legal sufficiency by the Attorney General and approval by the Legislative Regulation Review Committee, **the final regulation shall be effective**

(Check one and complete as applicable)

☒ When posted to the eRegulations System website by the Secretary of the State.

OR ☐ On _____
(Date must be a specific calendar date not less than 11 days after submission to the Secretary of the State)

Seila Mosquera-Bruno	**Commissioner**	11/11/2024
SIGNED	OFFICIAL TITLE	DATE
(Head of Board, Agency or Commission, or duly authorized deputy)		

Connecticut eRegulations System — Tracking Number PR2022-033 — Posted 11/27/2024

OFFICE OF THE ATTORNEY GENERAL
REGULATION CERTIFICATION

Agency: Department of Housing

REGULATION NUMBER: **PR2022-033**

This Regulation is hereby APPROVED by the Attorney General as to legal sufficiency in accordance with Connecticut General Statutes § 4-169.

DATE: 11/27/2024

Signed: _____

Sean Kehoe
Associate Attorney General
Chief of the Division of Government Affairs
Duly Authorized

The Connecticut General Assembly

Legislative Regulation Review Committee

Senator Sujata Gadkar-Wilcox
Senate Chair

Representative Christie Carpino
House Chair

Official Record of Committee Action

January 28, 2025

Agency:	Department of Housing
Description:	Fair Housing Regulations
LRRC Regulation Number:	2023-031A
eRegulation Tracking Number:	PR2022-033

The above-referenced regulation has been

Approved with Technical Corrections

by the Legislative Regulation Review Committee in accordance with CGS Section 4-170.

Catherine M. Thomas
Committee Administrator

State of Connecticut
Office of the Secretary of the State

Confirmation of Electronic Submission

Re: Regulation of the Department of Housing concerning Fair Housing Regulations
eRegulations System Tracking Number PR2022-033
Legislative Regulation Review Committee Docket Number 2023-031A

The above-referenced regulation was electronically submitted to the Office of the Secretary of the State in accordance with Connecticut General Statutes Section 4-172 on January 31, 2025.

Said regulation is assigned Secretary of the State File Number 6427.

The effective date of this regulation is February 4, 2025.

Stephanie Thomas
Secretary of the State
February 4, 2025

By:

/s/ Christopher R. Drake
Christopher R. Drake
Director, Business Services Division

Exhibit A:

Property Description

SCHEDULE A

LEGAL DESCRIPTION

PARCEL ONE (2135 Reservoir Avenue):

ALL THAT CERTAIN piece or parcel of land, together with the buildings and improvements thereon, situated in the Town of Trumbull, County of Fairfield, and State of Connecticut, and being more particularly bounded and described as follows, to wit:

NORTHERLY:	By land now or formerly of Beatrice M. Parente and John Pavone, 150 feet, more or less;
EASTERLY:	By Reservoir Avenue, 75 feet;
SOUTHERLY:	By land now or formerly of Peter F. Miller and Grace M. Miller, 150 feet, more or less;
WESTERLY:	By land now or formerly of Beatrice M. Parente and John Pavone, 75 feet, more or less.

PARCEL TWO (2145 Reservoir Avenue):

ALL THAT CERTAIN piece or parcel of land, together with the buildings and improvements thereon, situated in the Town of Trumbull, County of Fairfield, and State of Connecticut, more particularly bounded and described as follows, to wit:

Commencing at a point 75 feet north of property now or formerly of Camp Clark on the west side of Reservoir Avenue; thence North 78° 30' West 150 feet along land now or formerly of Faustini; thence North 8° 47' East along property now or formerly of Faustini, 140 feet; thence South 83° 51' East along property now or formerly of Faustini, 149.98 feet to Reservoir Avenue; thence South 8° 47' West along Reservoir Avenue, 154 feet south to the point or place of beginning.

PARCEL THREE (2155 Reservoir Avenue):

ALL THOSE TWO CERTAIN pieces or parcels of land, together with the buildings and improvements thereon, situated in the Town of Trumbull, County of Fairfield, and State of Connecticut, more particularly bounded and described as follows:

First Piece:

NORTHERLY:	By land now or formerly of The Connecticut Light and Power Company, 450 feet, more or less;
EASTERLY:	By Reservoir Avenue, 71 feet, more or less;
SOUTHERLY:	By land now or formerly of Joseph and Florence Byczko, 149.98 feet;
EASTERLY AGAIN:	By land now or formerly of Joseph and Florence Byczko, 140 feet, and land now or formerly of Paul DiCecco, 75 feet, in all, 215 feet;
SOUTHERLY AGAIN:	By land now or formerly of Peter and Grace Miller, 300 feet, more or less;
WESTERLY:	By land now or formerly of Gustave and Christine Voight, 193 feet, more or less.

Second Piece:

NORTHERLY:	By land now or formerly of Ruth Baum, 200 feet, more or less;
EASTERLY:	In part by land now or formerly of John Pavone and Beatrice Parente, and in part by land now or formerly of Peter F. and Grace M. Miller, 291.49 feet, more or less;
SOUTHERLY:	In part by land now or formerly of Vincent J. and Catherine I. Jackcenis, and in part by land now or formerly of Alois C. and Alice J. Schwab, 200 feet, more or less;
WESTERLY:	By land now or formerly of Walter Fittig, 220.21 feet, more or less.

TOWN CLERK OFFICE, TRUMBULL, CT
RECEIVED FOR RECORD SEP 16 2019
AT 1:46P M. ATTEST Diane D. Murphy
TOWN CLERK

2135-2155 Reservoir Ave, Trumbull, CT

Municipal Benefits

Fees & Taxes

November 7, 2025

1) Site Plan Application Fee - $2,120.00

2) Building Permit Fee - $300,000.00*

3) Sewer Connection Fee - $1,050,000.00*

4) Annual Property Taxes - $725,000.00* (increase from $24,428)

* Note – Estimated using Town of Trumbull fees, estimated construction costs and estimated property tax payments.

Vessel

VESSEL RE HOLDINGS, LLC.

The Vessel Building and our Development Approach

Prepared in Connection with Trumbull Site Plan Application

November 7, 2025

Vessel builds innovative, sustainable and attainably priced apartment buildings through a proprietary process that shortens timelines, reduces waste, and ensures lasting quality. This approach minimizes disruption to surrounding neighbors while reducing execution risk and bringing new housing to market faster than traditional construction.

Quality and Resident Experience

Vessel buildings offer residents a modern, healthy, and connected living environment. Homes have high ceilings, large windows, and thoughtful layouts that maximize natural light and livable space. Every home includes stainless steel appliances, in-unit laundry, Vessel Intelligence, our proprietary smart-home operating system, which allows residents to monitor and manage temperature, air quality, lighting, and security through a single, integrated interface.

Safety is our Greatest Priority

Vessel buildings are Type II-B, non-combustible construction, are fully sprinklered, and are designed to meet or exceed all applicable life safety codes.

Partnership and Community Benefit

Vessel developments create lasting value for the towns in which they are constructed. They provide high-quality, attainably priced housing through a predictable construction process that allows municipalities to plan with confidence. Shorter build timelines quickly translate into much needed housing and tax revenue with far less disruption during construction. Durable, efficient materials ensure the buildings remain attractive and low-maintenance for decades, contributing to a stable local housing supply. Most importantly, each project

Vessel

expands access to well-built homes for essential workers and residents who strengthen the community every day.

Our team works closely with municipal staff, boards, and local stakeholders from early design through occupancy, prioritizing transparency, responsiveness, and careful execution. Our goal is not only to deliver new housing, but to do so in a way that supports economic development, environmental responsibility, and long-term neighborhood stability.

We are proud to bring a new standard of attainable housing to Connecticut and look forward to the opportunity to contribute to Trumbull's growth and vitality.

ENGINEERING REPORT

For The Proposed:

Multi-Family Residential Redevelopment

Located At:
2135, 2145 & 2155 Reservoir Avenue
Trumbull, Connecticut 06611

Prepared On:
November 7, 2025

Prepared By:

SOLLI ENGINEERING

501 Main Street
Monroe, Connecticut 06468
T: (203) 880-5455 F: (203) 880-9695

Prepared For:

Vessel Technologies
46 West 55th Street
New York, NY



Kevin M. Solli
CT PE #25759

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INTRODUCTION

Solli Engineering (Solli) has prepared this Engineering Report to provide an analysis of the proposed stormwater drainage, soil erosion and sediment control measures, and utilities associated with the site redevelopment of 2135, 2145 & 2155 Reservoir Avenue in Trumbull, Connecticut. The development proposes two muti-family residential buildings with associated parking, access drives, landscaping, stormwater management measures and utility infrastructure.

PROJECT DESCRIPTION

EXISTING CONDITIONS

The site is located at 2135, 2145 & 2155 Reservoir Avenue in Trumbull, Connecticut. The site consists of three parcels, totaling approximately 3.83-acres, and is currently developed with residential buildings and an industrial garage. The site is bound by Reservoir Avenue to the east, residential uses to the south, and industrial uses in the Industrial Zone I-L2 to the north and west. The property is located within the Residence A Zoning District in the Town of Trumbull. See Figure 1, Site Location Map, for a depiction of the project location.

Per FEMA Map No. 09001C0231F, no portion of the project site is located within a special flood hazard zone. See Figure 2, FEMA Flood Map. The project site is not located within a state-listed Aquifer Protection Area and is not located within an area of State and Federal Listed Species. The site is not located within a public water supply watershed. According to the Town of Trumbull GIS, there are no apparent wetlands located on or immediately adjacent to the site (see Figures in Appendix A for more information).

There is no evidence of an existing drainage or stormwater system on site. Refer to the Stormwater Management section of this report for more detailed information regarding the hydrology of the existing conditions.

SUBSURFACE SOIL CONDITIONS

Based on the USDA web soil survey (WSS) map, the on-site soils include Sutton fine sandy loams, Charlton-Chatfield sandy loams and Urban Land, with a Hydraulic Soil Group rating of “B” and “D”. Per the USDA WSS map, Group “B” soils have a moderate infiltration rate when thoroughly wet. These soils have a moderate rate of water transmission. Group “D” soils have a very slow infiltration rate when thoroughly wet. These soils have a very slow rate of water transmission. The Soil Survey Map for the site can be found in Appendix A, Figure 3.

Subsurface explorations were performed on July 7, 2025, by GEI Consultants. The explorations consisted of ten (10) borings in the vicinity of the proposed buildings and parking areas. In general, the subsurface profile consists of natural granular soils, glacial till and bedrock. Refer to the Geotechnical Report (under separate cover) for more information.

Infiltration tests were performed by Solli Engineering on August 8, 2025, in the general vicinity of the above-ground stormwater basins, as close as possible to the elevation at the bottom of the proposed systems. The tests provided infiltration rates of more than 6 inches per hour. To be conservative, the slowest infiltration test result of 2 inches per hour was utilized in the stormwater calculations.

PROPOSED SITE IMPROVEMENTS

The proposed redevelopment will consist of the construction of two multi-family residential buildings with associated parking areas, access drives, stormwater management basins and landscaping. The buildings will consist of a total of 150 residential units (70 units in Building 1 and 80 units in Building 2). A total of 178 parking spaces will be provided along with a new full-movement access driveway from Reservoir Avenue to the east.

The redevelopment will result in an increase in impervious area of approximately 1.75 acres compared to that of existing conditions. The design of the proposed stormwater management system has provided a reduction in the peak discharge rates compared to that of existing conditions for all storm events by utilizing two stormwater detention basins.

The redevelopment provides water quality measures in the form of hydrodynamic separators, which will treat the water quality flows for the respective drainage areas, ensuring that runoff from the proposed parking areas and drives is treated prior to discharging to the stormwater basins and eventually off-site. Refer to the "Stormwater Management" section of this report for detailed information regarding the hydrology of the proposed conditions.

STORMWATER MANAGEMENT

The stormwater management plan and design for the project has been designed, to the greatest extent possible, to comply with the Town of Trumbull Zoning Regulations, the 2024 Connecticut Stormwater Quality Manual, and the CT DOT 2000 Drainage Manual, while taking prevailing site conditions and practical considerations into account.

METHODOLOGY

Stormwater runoff analysis for both existing and proposed conditions was performed using the software package HydroCAD. This software uses a computer implementation of the SCS – Synthetic Unit Hydrograph methodology to compute volumes and rates of runoff. The watershed area, rainfall depths and intensity, curve number, and time of concentration are factors that influence the computed results.

Rainfall depths for this property were used for calculating the volumes and rates of runoff for this particular project. The depths were taken from the NOAA Atlas 14 documents (Latitude: 41.2295°, Longitude: -73.1956°) and are listed in Table 1 below.

Table 1: Rainfall Data

Return Period	24-hr Rainfall Depth (in)
2-year	3.52
5-year	4.56
10-year	5.43
25-year	6.62
50-year	7.51
100-year	8.46

EXISTING HYDROLOGY

The site generally slopes gradually, towards the northeast, with a high elevation of approximately 217 feet at the west side of the site and a low elevation of approximately 198 feet at the northeast side of the property.

Approximately 11.81 acres were analyzed for stormwater management purposes. Based on existing drainage patterns, the site has one contributing drainage area, labeled EDA-1, which consists of residential building, driveways, walkways, wooded areas, grass lawn and dirt roads.

Characteristics of the drainage area is summarized in Table 2. The approximate location and delineation of the drainage area can be seen on Sheet EDA, Existing Drainage Area Map, found in Appendix B.

Table 2: Existing Drainage Area Characteristics

Drainage Area	Area (Acres)	Curve Number (CN)	Time of Concentration (Minutes)
EDA-1	11.81	74	13.9

Existing peak flows of runoff for all storm events analyzed are summarized in Table 3. Calculations for the existing hydrology can be found in Appendix B.

Table 3: Existing Peak Flows

Drainage Area	Storm Event Peak Flows (cfs)					
	2-yr	5-yr	10-yr	25-yr	50-yr	100-yr
EDA-1	12.6	20.9	28.2	38.6	46.6	55.2

PROPOSED HYDROLOGY

Based on proposed drainage patterns, the site was divided into three (3) contributing drainage areas, labeled Proposed Drainage Area 1 (PDA-1A), Proposed Drainage Area 1B (PDA-1B) and Proposed Drainage Area 1C (PDA-1C).

Proposed Drainage Area 1A (PDA-1A) has a contributing area of approximately 7.70 acres. This area consists of residential properties to the south of the redevelopment, grass lawn and wooded areas. Runoff from this area flows via overland to the north and east towards the project site.

Proposed Drainage Area 1B (PDA-1B) has a contributing area of approximately 3.06 acres. This area consists of residential properties to the south of the redevelopment, grass lawn and wooded areas. Runoff from this area flows via overland to the north and west towards the project site.

Proposed Drainage Area 1C (PDA-1C) has a contributing area of approximately 1.06 acres. This area consists of parking areas and grass lawn. Runoff from this area flows to proposed above ground stormwater detention basin 2 (Basin 2) before overflowing off-site to the north.

Characteristics of these drainage areas are summarized in Table 4. The approximate location and delineation of the drainage areas can be seen on Sheet PDA, Proposed Drainage Area Map, found in Appendix B.

Table 4: Proposed Drainage Area Characteristics

Drainage Area	Area (Acres)	Curve Number (CN)	Time of Concentration (Minutes)
PDA-1A	7.70	73	13.0
PDA-1B	3.06	75	10.2
PDA-1C	1.06	88	12.8

The overall proposed peak flows for all analyzed storms are summarized in Table 5. Calculations for the proposed hydrology can be found in Appendix B.

Table 5: Proposed Peak Flows

Drainage Area	Storm Event Peak Flows (cfs)					
	2-yr	5-yr	10-yr	25-yr	50-yr	100-yr
PDA-1	**5.6**	**15.2**	**21.3**	**31.6**	**40.0**	**47.2**

The proposed stormwater management system includes catch basins with four-foot sumps, drainage piping, hydrodynamic separators, and two above ground stormwater detention basins. The proposed detention basins are designed to attenuate the proposed peak discharge rate for the respective drainage areas, so that the overall proposed peak flow is less than the overall existing peak flow within the entire project area. The stormwater conveyance system has also been designed with a water quality unit upgradient to each detention basin, to ensure that the water quality flow is treated prior to runoff leaving the site. The stormwater conveyance system for the project was designed to accommodate the 25-year design storm.

The project proposes two above-ground stormwater detention basins, Basin 1 and Basin 2. Basin 1 will capture runoff associated with the new buildings, parking areas and grass lawn areas. The basin will include an outlet control structure which will direct overflow to the north via an outlet pipe and headwall at the northeast corner of the site. The basin will also include an emergency spillway which will overflow to the north. Basin 2 will capture runoff associated with the new parking areas and grass lawn areas. The basin will include an outlet control structure which will direct overflow to the north via an outlet pipe and headwall at the northeast corner of the site. The basin will also include an emergency spillway which will overflow to the north.

In order to comply with the 2024 Connecticut Stormwater Quality Manual, the on-site stormwater management system has been designed to retain 100% of the required on-site water quality volume. The overall water quality volume (WQV), or the required retention volume (RVV), for the project area was calculated to be 8,124 cf. The volume of storage below the outlet in Basin 1 is 7,405 cf, and the volume of storage below the outlet in Basin 2 is 1,307 cf, for a total of 8,712 cf. Therefore, the required retention volume (RRV) for this drainage area and the property as a whole has been met.

The water quality flow (WQF) for the respective drainage areas will need to be treated prior to entering the detention basins. The water quality flow (WQF) for the portion of PDA-1 flowing to hydrodynamic separator 1 (HYD-1) is 1.36 cfs. The First-Defense Hydrodynamic Separator model FDHC-4, which has a TSS treatment rate of 1.50 cfs, therefore the specified hydrodynamic separator is sufficient to treat the water quality flow for this drainage area. The WQF for the portion of PDA-1 flowing to hydrodynamic separator 2 (HYD-2) is 1.07 cfs. The First-Defense Hydrodynamic Separator model FDHC-4 has a TSS treatment rate of 1.50 cfs, therefore the specified hydrodynamic separator is sufficient to treat the water quality flow for these drainage areas. See Appendix B for water quality flow calculation sheets.

Per Table 4-2 of the 2024 Connecticut Stormwater Quality Manual, if 100% of the site's water quality volume is retained on site, then no additional stormwater treatment volume is required in terms of pollutant load reductions for total suspended solids (TSS), total phosphorus (TP) or total nitrogen (TN). See Appendix C for water quality volume calculation sheets.

For more information regarding stormwater management, please refer to the Grading & Drainage Plan found in Appendix D, as well as the hydrology data found in Appendix B of this report.

STORMWATER CONCLUSION

The development will result in an increase in impervious areas compared to that of existing conditions. Additionally, the parking areas will drain into proposed hydrodynamic separators which will clean runoff before discharging into the detention basins. The proposed stormwater management system design has provided a reduction in the peak discharge rates compared to that of existing conditions for all storm events analyzed and has also been designed to meet the water quality volume and pollutant load reductions as outlined in the 2024 Connecticut Stormwater Quality Manual.

Table 6: Peak Flow Comparison Table

Drainage Area	**Storm Event Peak Flows (cfs)**					
	2-yr	**5-yr**	**10-yr**	**25-yr**	**50-yr**	**100-yr**
EDA-1	12.6	20.9	28.2	38.6	46.6	55.2
PDA-1	**5.6**	**15.2**	**21.3**	**31.6**	**40.0**	**47.2**
% Reduction	**55.5%**	**27.3%**	**24.5%**	**18.1%**	**14.2%**	**14.5%**

SOIL EROSION AND SEDIMENT CONTROL

The proposed plans for soil erosion and sediment control prepared for this project have been developed in accordance with the Town of Trumbull Zoning Regulations, as well as the 2024 Connecticut Guidelines for Soil Erosion and Sediment Control, prepared by the Connecticut Council on Soil and Water Conservation in cooperation with the Connecticut Department of Environmental Protection. The soil erosion and sediment control measures that will be proposed as part of this project include geotextile silt fences, construction entrance, dust control measures, diversion swales, temporary stockpile areas, temporary sediment traps and inlet protection for stormwater drainage features.

The Soil Erosion and Sediment Control Plan is split into two phases, Phase I for the initial clearing and prepping of the site, and Phase II to proceed with building and site construction while maintaining soil erosion and sediment control measures. For more detail regarding layout and design of the soil erosion and sediment control measures implemented as part of this project see Sheets 2.31 & 2.32, Soil Erosion & Sediment Control Plan and Sheet 2.41, Soil Erosion & Sediment Control Notes & Details in Appendix D of this report.

SITE UTILITIES

WATER

Water service for the building is proposed via the existing water main within Reservoir Avenue. A 6" DIP fire line will be installed and tie into the buildings. A 3" domestic water line will run parallel to the 6" DIP line and tie into generally the same location as the fire lines.

SEWER

The building will be serviced by the 8" public sewer main located within Reservoir Avenue via 8" PVC lateral connection.

TELEPHONE AND CABLE

Existing overhead telephone and cable services are provided from utility poles located on Reservoir Avenue. Proposed telephone and cable services are proposed to be routed, via underground conduits, to the existing utility poles per utility company requirements.

ELECTRIC

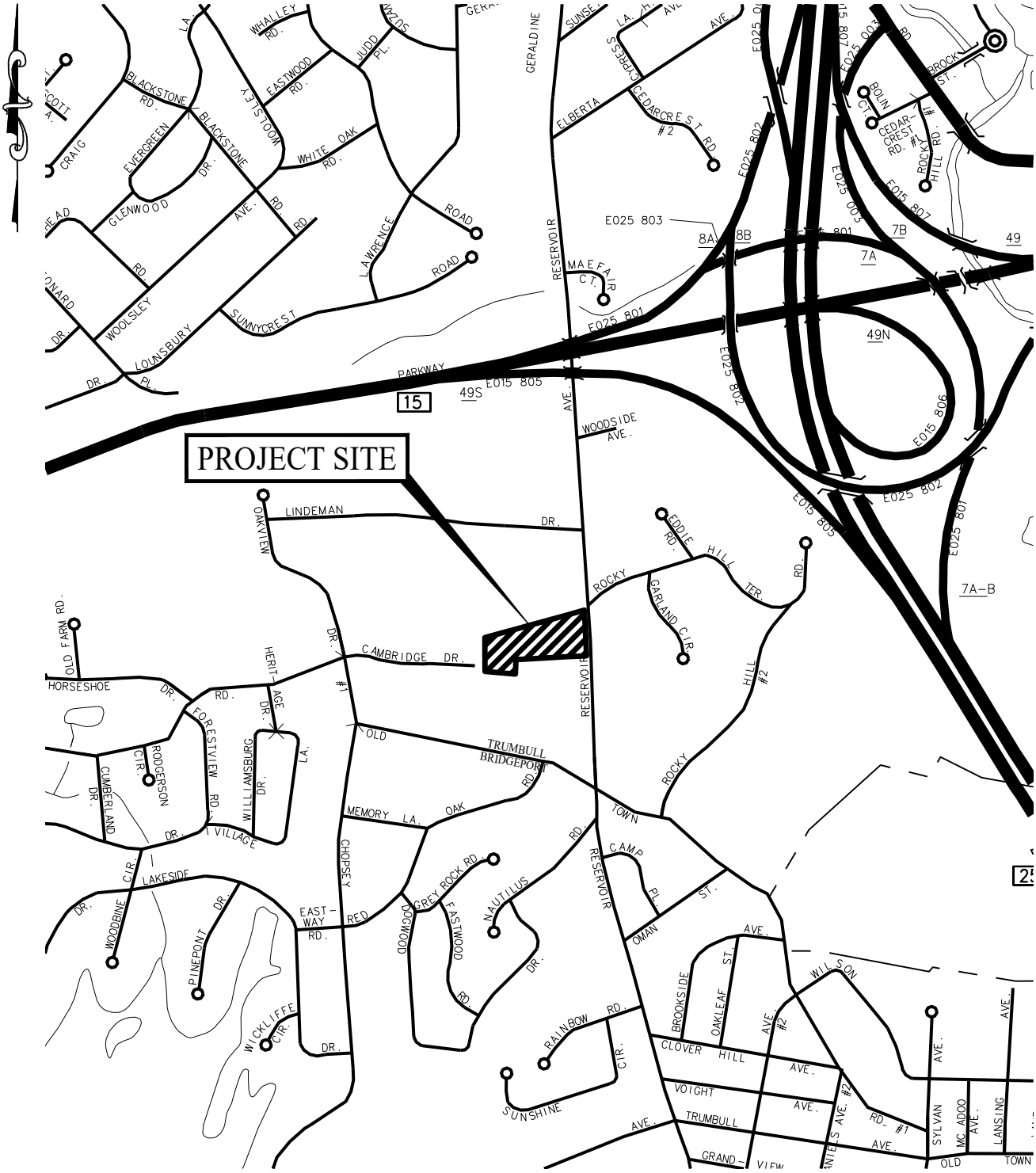
The project proposes a pad-mounted transformer for each building. The proposed electric lines will run from the existing utility poles located on Reservoir Avenue, into the proposed transformers, before running into the proposed buildings and tying into the utility rooms. Conduit for future EV charging stations will be installed and stubbed in a location designated for EV charging parking spots.

List of Appendices

Appendix A: Figures
Appendix B: Hydrology
Appendix C: Storm Drainage System Calculations
Appendix D: Design Plans
Appendix E: Long-Term Operation & Maintenance

APPENDIX A
FIGURES

Site Location Map (Figure 1)
FEMA Flood Map (Figure 2)
Soil Survey Map (Figure 3)
Natural Diversity Database Map (Figure 4)
Aquifer Protection Area Map (Figure 5)
Public Water Supply Watershed Map (Figure 6)
USGS Map (Figure 7)



NOTE: BASE MAP INFORMATION TAKEN FROM CT TRU MAP 9

1,000 0 500 1,000

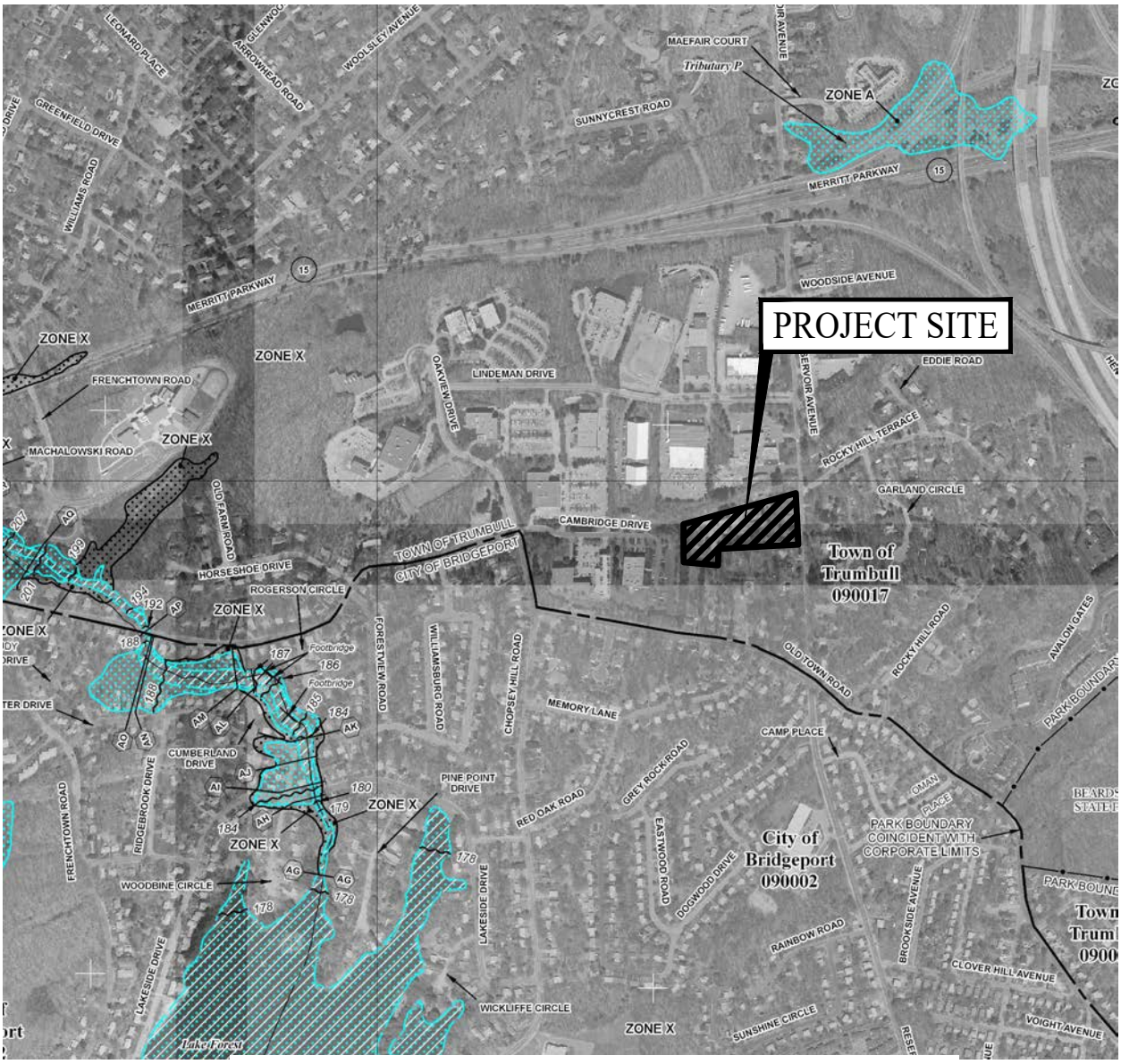
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SITE LOCATION MAP

2135, 2145 & 2155 RESERVOIR AVE
TRUMBULL, CONNECTICUT

Project #:	24116901
Plan Date:	10/31/25
Scale:	1" = 1,000'
Figure:	1



LEGEND

SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

ZONE A	No Base Flood Elevations determined.
ZONE AE	Base Flood Elevations determined.

NOTE: BASE MAP INFORMATION TAKEN FROM FEMA FLOOD MAP 09001C0231F DATED JUNE 18, 2010

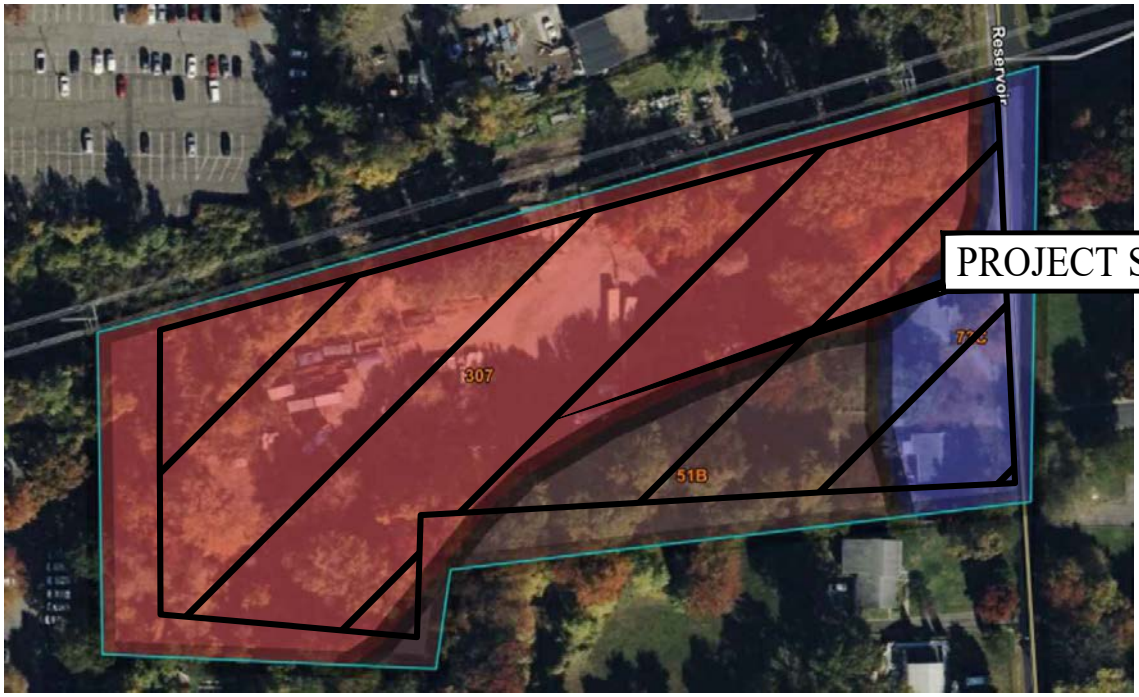
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FEMA FLOOD MAP

2135, 2145 & 2155 RESERVOIR AVE
TRUMBULL, CONNECTICUT

Project #:	24116901
Plan Date:	10/31/25
Scale:	1" = 1,000'
Figure:	2



Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
51B	Sutton fine sandy loam, 0 to 8 percent slopes, very stony	B/D	0.9	17.5%
73C	Charlton-Chatfield complex, 0 to 15 percent slopes, very rocky	B	0.6	12.9%
307	Urban land	D	3.5	69.6%
Totals for Area of Interest			**5.0**	**100.0%**

NOTE: BASE MAP INFORMATION TAKEN FROM USGS WEB SOIL SURVEY DATA

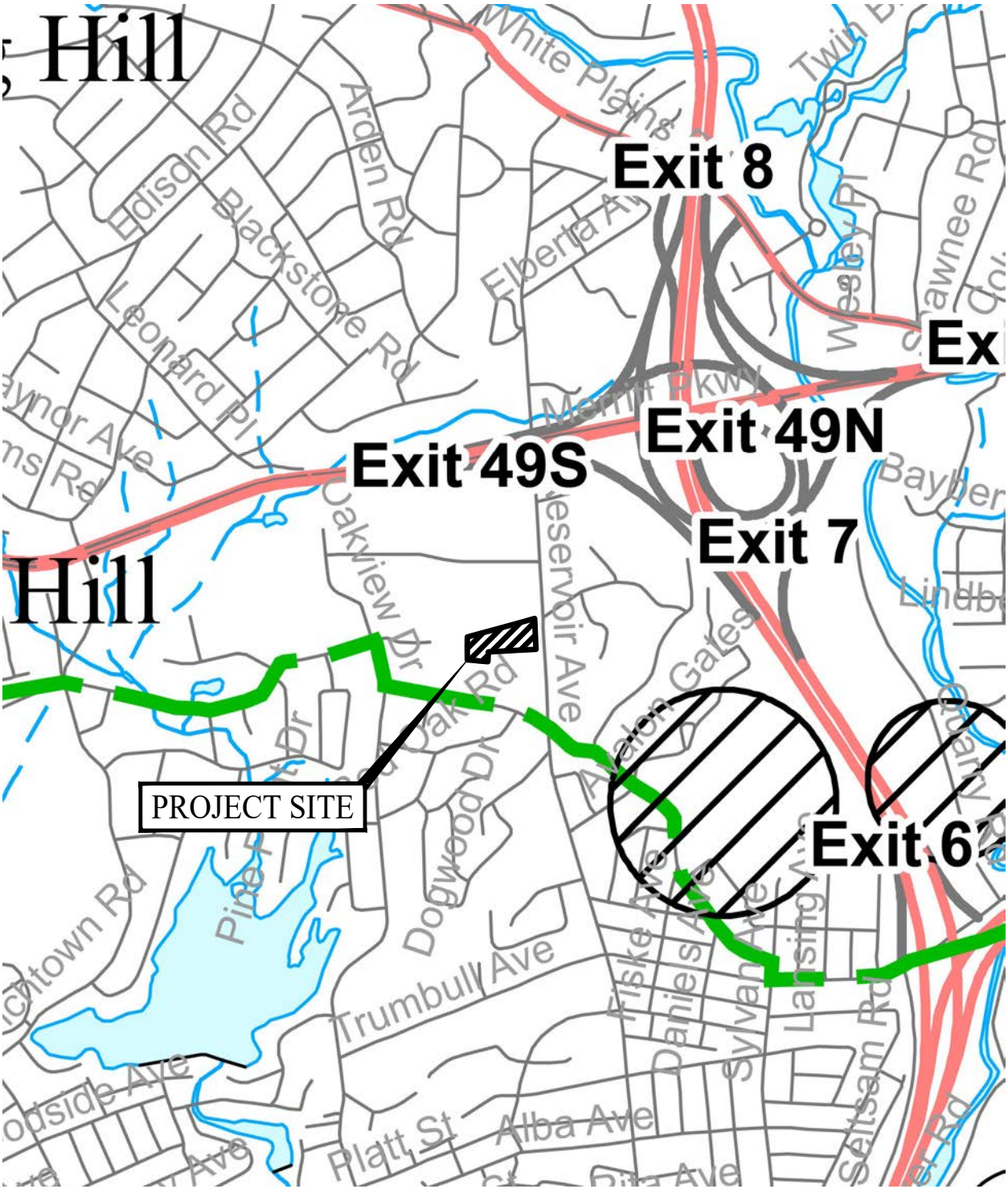
150 0 75 150

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SOIL SURVEY MAP

2135, 2145 & 2155 RESERVOIR AVE
TRUMBULL, CONNECTICUT

Project #:	24116901
Plan Date:	10/31/25
Scale:	1" = 150'
Figure:	3



NOTE: BASE MAP INFORMATION TAKEN FROM NATURAL DIVERSITY DATA BASE AREA (TRUMBULL, CONNECTICUT, JUNE 2025)

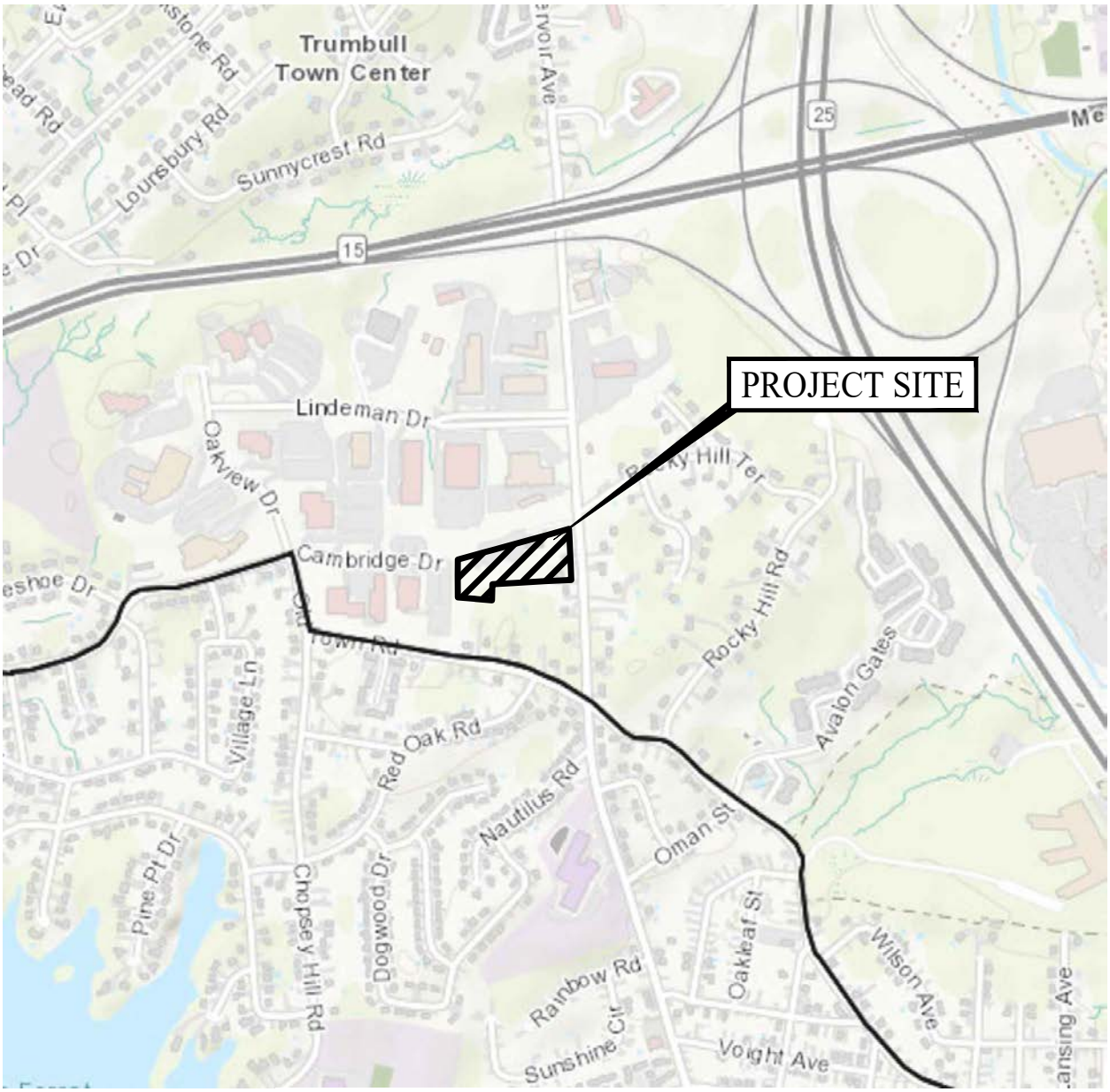
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NATURAL DIVERSITY DATABASE MAP

2135, 2145 & 2155 RESERVOIR AVE
TRUMBULL, CONNECTICUT

Project #:	24116901
Plan Date:	10/31/25
Scale:	1" = 1,500'
Figure:	4



Aquifer Protection Areas

- Final Adopted Aquifer Protection
- Final Aquifer Protection
- Preliminary Aquifer Protection

NOTE: BASE MAP INFORMATION TAKEN FROM CT DEEP AQUIFER PROTECTION AREA MAP TRUMBULL, CT

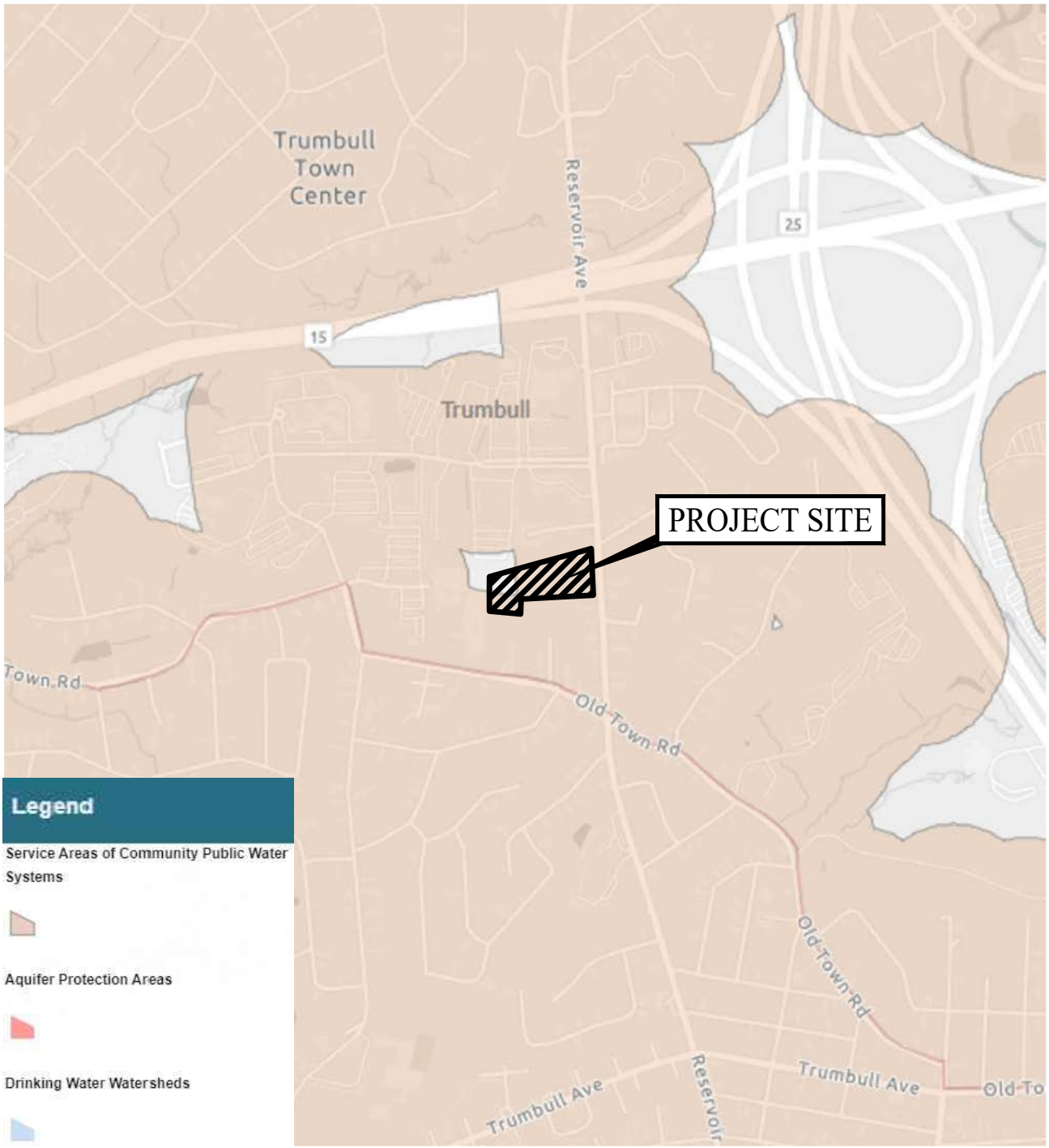
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AQUIFER PROTECTION AREA MAP

2135, 2145 & 2155 RESERVOIR AVE
TRUMBULL, CONNECTICUT

Project #:	24116901
Plan Date:	10/31/25
Scale:	1" = 1,000'
Figure:	5



NOTE: BASE MAP INFORMATION TAKEN FROM CT.GOV DRINKING WATER SECTION GIS MAP VIEWER

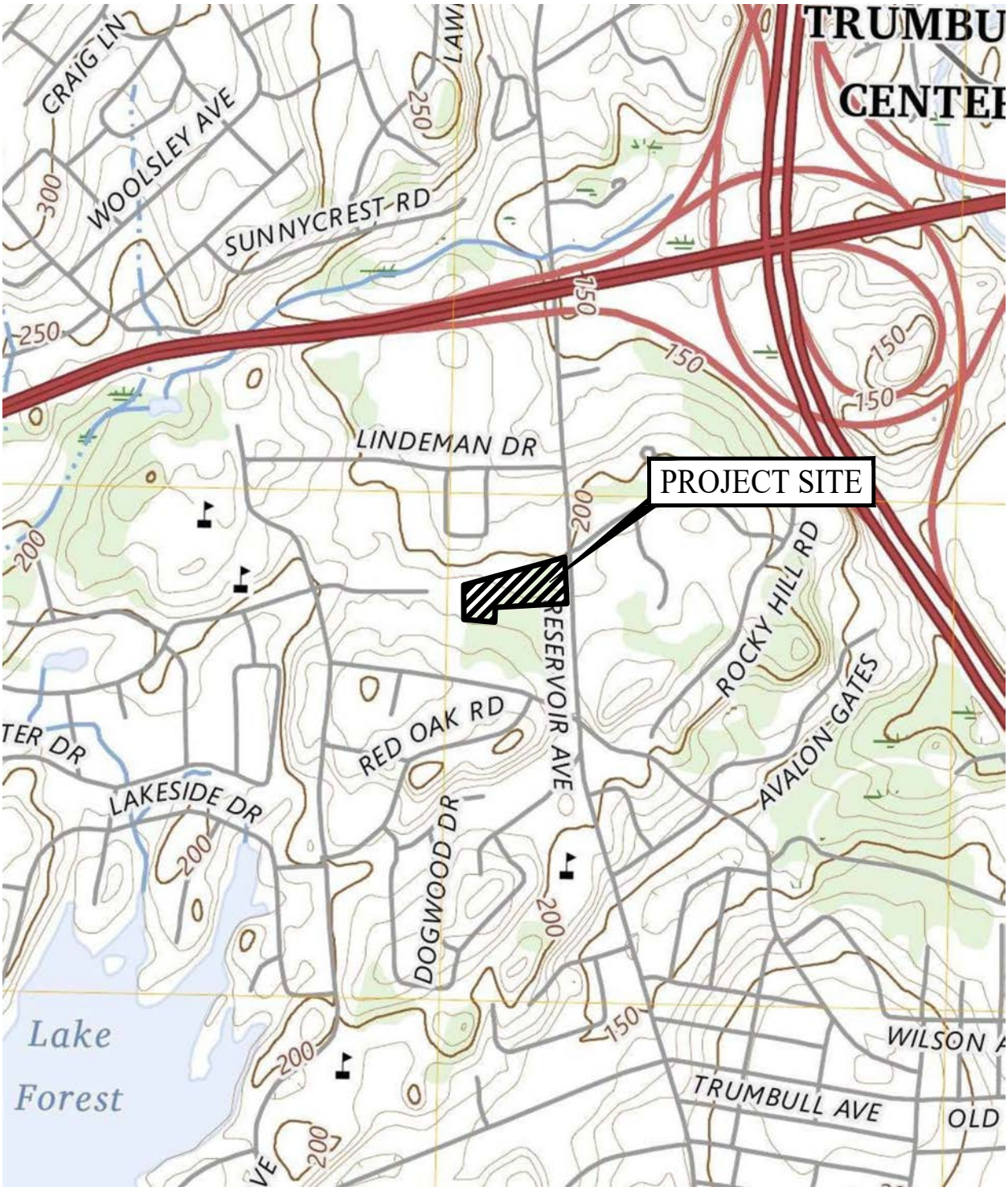
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PUBLIC SUPPLY WATERSHED MAP

2135, 2145 & 2155 RESERVOIR AVE
TRUMBULL, CONNECTICUT

Project #:	24116901
Plan Date:	10/31/25
Scale:	1" = 1,000'
Figure:	6



NOTE: BASE MAP INFORMATION TAKEN FROM UNITED STATES GEOLOGICAL SURVEY MAP DATED 2024

1,000 0 500 1,000

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USGS MAP

2135, 2145 & 2155 RESERVOIR AVE
TRUMBULL, CONNECTICUT

Project #:	24116901
Plan Date:	10/31/25
Scale:	1" = 1,000'
Figure:	7

APPENDIX B
HYDROLOGY

NOAA Atlas Precipitation Data
Existing Drainage Area Map (EDA)
Proposed Drainage Area Map (PDA)
HydroCAD Report – Existing Conditions
HydroCAD Report – Proposed Conditions
Water Quality Volume Calculations

NOAA Atlas 14, Volume 10, Version 3
Location name: Trumbull, Connecticut, USA*
Latitude: 41.2295°, Longitude: -73.1956°
Elevation: 211 ft**
* source: ESRI Maps
** source: USGS

POINT PRECIPITATION FREQUENCY ESTIMATES

Sanja Perica, Sandra Pavlovic, Michael St. Laurent, Carl Trypaluk, Dale Unruh, Orlan Wilhite

NOAA, National Weather Service, Silver Spring, Maryland

PF_tabular | PF_graphical | Maps_&_aerials

PF tabular

PDS-based point precipitation frequency estimates with 90% confidence intervals (in inches)[1]

Duration	Average recurrence interval (years)									
	1	2	5	10	25	50	100	200	500	1000
5-min	**0.355** (0.278-0.445)	**0.421** (0.329-0.528)	**0.529** (0.412-0.665)	**0.618** (0.480-0.782)	**0.741** (0.556-0.975)	**0.834** (0.613-1.12)	**0.931** (0.663-1.29)	**1.04** (0.701-1.47)	**1.19** (0.773-1.74)	**1.32** (0.834-1.96)
10-min	**0.502** (0.394-0.630)	**0.596** (0.467-0.748)	**0.749** (0.584-0.943)	**0.876** (0.679-1.11)	**1.05** (0.788-1.38)	**1.18** (0.868-1.58)	**1.32** (0.939-1.83)	**1.47** (0.993-2.08)	**1.69** (1.10-2.47)	**1.87** (1.18-2.78)
15-min	**0.591** (0.463-0.741)	**0.701** (0.549-0.880)	**0.881** (0.687-1.11)	**1.03** (0.799-1.30)	**1.24** (0.927-1.62)	**1.39** (1.02-1.86)	**1.55** (1.10-2.15)	**1.73** (1.17-2.45)	**1.99** (1.29-2.90)	**2.20** (1.39-3.26)
30-min	**0.823** (0.645-1.03)	**0.976** (0.765-1.22)	**1.23** (0.958-1.54)	**1.44** (1.11-1.82)	**1.72** (1.29-2.26)	**1.94** (1.42-2.60)	**2.16** (1.54-2.99)	**2.41** (1.63-3.41)	**2.75** (1.78-4.02)	**3.02** (1.91-4.50)
60-min	**1.06** (0.827-1.32)	**1.25** (0.980-1.57)	**1.57** (1.23-1.98)	**1.84** (1.43-2.33)	**2.21** (1.66-2.90)	**2.49** (1.82-3.33)	**2.78** (1.97-3.83)	**3.08** (2.08-4.36)	**3.51** (2.28-5.13)	**3.85** (2.44-5.73)
2-hr	**1.37** (1.08-1.70)	**1.63** (1.29-2.03)	**2.06** (1.62-2.58)	**2.42** (1.89-3.04)	**2.91** (2.20-3.81)	**3.28** (2.42-4.38)	**3.67** (2.63-5.06)	**4.11** (2.78-5.77)	**4.73** (3.08-6.86)	**5.24** (3.32-7.74)
3-hr	**1.58** (1.25-1.96)	**1.89** (1.50-2.35)	**2.40** (1.89-2.98)	**2.82** (2.21-3.53)	**3.40** (2.57-4.43)	**3.83** (2.84-5.09)	**4.29** (3.08-5.90)	**4.81** (3.26-6.74)	**5.57** (3.63-8.05)	**6.20** (3.94-9.12)
6-hr	**1.99** (1.59-2.46)	**2.40** (1.91-2.96)	**3.05** (2.42-3.78)	**3.60** (2.84-4.48)	**4.35** (3.32-5.64)	**4.91** (3.67-6.50)	**5.51** (3.99-7.55)	**6.20** (4.23-8.63)	**7.23** (4.73-10.4)	**8.09** (5.16-11.8)
12-hr	**2.46** (1.97-3.01)	**2.97** (2.38-3.64)	**3.81** (3.04-4.68)	**4.50** (3.57-5.56)	**5.46** (4.18-7.03)	**6.17** (4.63-8.11)	**6.93** (5.05-9.45)	**7.82** (5.35-10.8)	**9.15** (6.01-13.0)	**10.3** (6.57-14.9)
24-hr	**2.88** (2.32-3.50)	**3.52** (2.83-4.28)	**4.56** (3.66-5.57)	**5.43** (4.33-6.66)	**6.62** (5.11-8.49)	**7.51** (5.68-9.84)	**8.46** (6.22-11.5)	**9.62** (6.60-13.2)	**11.4** (7.48-16.1)	**12.9** (8.26-18.5)
2-day	**3.22** (2.61-3.89)	**4.00** (3.24-4.83)	**5.27** (4.26-6.39)	**6.32** (5.08-7.71)	**7.78** (6.05-9.94)	**8.84** (6.74-11.6)	**10.0** (7.44-13.6)	**11.5** (7.91-15.7)	**13.8** (9.10-19.4)	**15.8** (10.2-22.6)
3-day	**3.49** (2.84-4.20)	**4.34** (3.53-5.22)	**5.73** (4.65-6.92)	**6.89** (5.55-8.36)	**8.48** (6.62-10.8)	**9.64** (7.38-12.6)	**10.9** (8.15-14.9)	**12.6** (8.66-17.0)	**15.1** (10.0-21.2)	**17.4** (11.2-24.7)
4-day	**3.75** (3.06-4.49)	**4.64** (3.79-5.57)	**6.11** (4.97-7.36)	**7.33** (5.92-8.87)	**9.00** (7.04-11.4)	**10.2** (7.84-13.3)	**11.6** (8.65-15.7)	**13.3** (9.18-18.0)	**16.0** (10.6-22.3)	**18.3** (11.8-26.0)
7-day	**4.48** (3.68-5.35)	**5.45** (4.48-6.51)	**7.04** (5.75-8.43)	**8.35** (6.78-10.1)	**10.2** (7.98-12.8)	**11.5** (8.84-14.8)	**13.0** (9.67-17.3)	**14.7** (10.2-19.8)	**17.5** (11.6-24.3)	**19.9** (12.9-28.0)
10-day	**5.20** (4.29-6.18)	**6.21** (5.12-7.39)	**7.87** (6.46-9.39)	**9.24** (7.53-11.1)	**11.1** (8.76-13.9)	**12.5** (9.64-16.0)	**14.1** (10.5-18.6)	**15.9** (11.0-21.2)	**18.6** (12.4-25.7)	**20.9** (13.5-29.4)
20-day	**7.35** (6.10-8.68)	**8.47** (7.02-10.0)	**10.3** (8.49-12.2)	**11.8** (9.67-14.0)	**13.9** (10.9-17.1)	**15.4** (11.9-19.4)	**17.1** (12.7-22.2)	**18.9** (13.2-25.1)	**21.4** (14.4-29.4)	**23.5** (15.3-32.8)
30-day	**9.14** (7.61-10.7)	**10.3** (8.58-12.1)	**12.2** (10.1-14.4)	**13.8** (11.4-16.4)	**16.0** (12.7-19.7)	**17.7** (13.7-22.1)	**19.4** (14.4-25.0)	**21.3** (14.9-28.1)	**23.7** (15.9-32.3)	**25.6** (16.7-35.6)
45-day	**11.3** (9.48-13.3)	**12.6** (10.5-14.8)	**14.7** (12.2-17.2)	**16.4** (13.5-19.3)	**18.7** (14.8-22.8)	**20.5** (15.8-25.4)	**22.3** (16.5-28.4)	**24.1** (17.0-31.7)	**26.5** (17.8-35.9)	**28.3** (18.5-39.1)
60-day	**13.2** (11.0-15.4)	**14.5** (12.1-16.9)	**16.6** (13.9-19.5)	**18.4** (15.3-21.7)	**20.9** (16.6-25.3)	**22.8** (17.6-28.1)	**24.7** (18.3-31.2)	**26.5** (18.7-34.7)	**28.8** (19.4-38.9)	**30.5** (19.9-42.0)

[1] Precipitation frequency (PF) estimates in this table are based on frequency analysis of partial duration series (PDS).

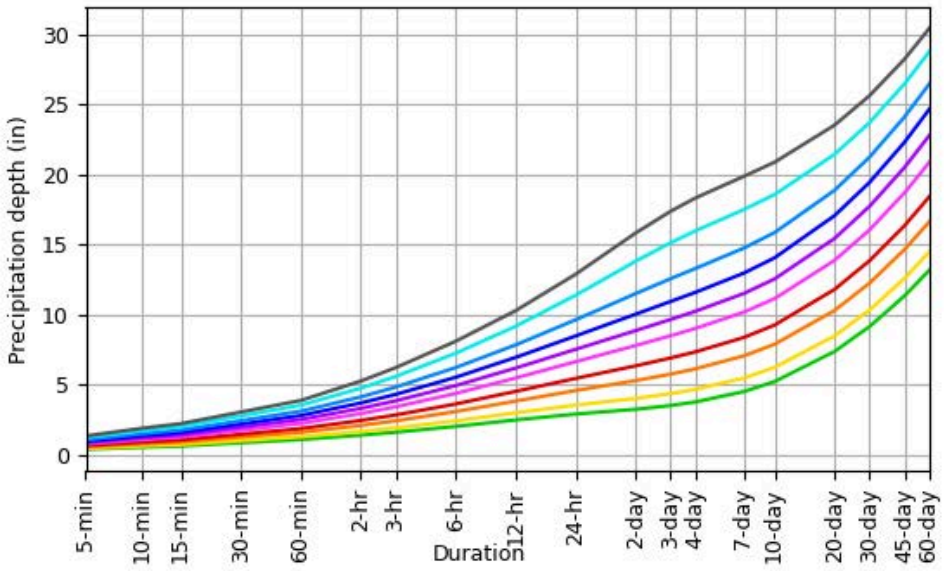
Numbers in parenthesis are PF estimates at lower and upper bounds of the 90% confidence interval. The probability that precipitation frequency estimates (for a given duration and average recurrence interval) will be greater than the upper bound (or less than the lower bound) is 5%. Estimates at upper bounds are not checked against probable maximum precipitation (PMP) estimates and may be higher than currently valid PMP values.

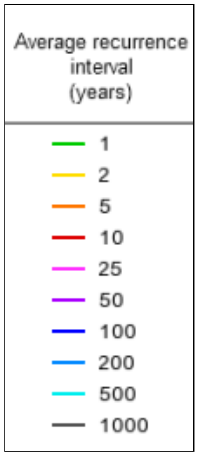
Please refer to NOAA Atlas 14 document for more information.

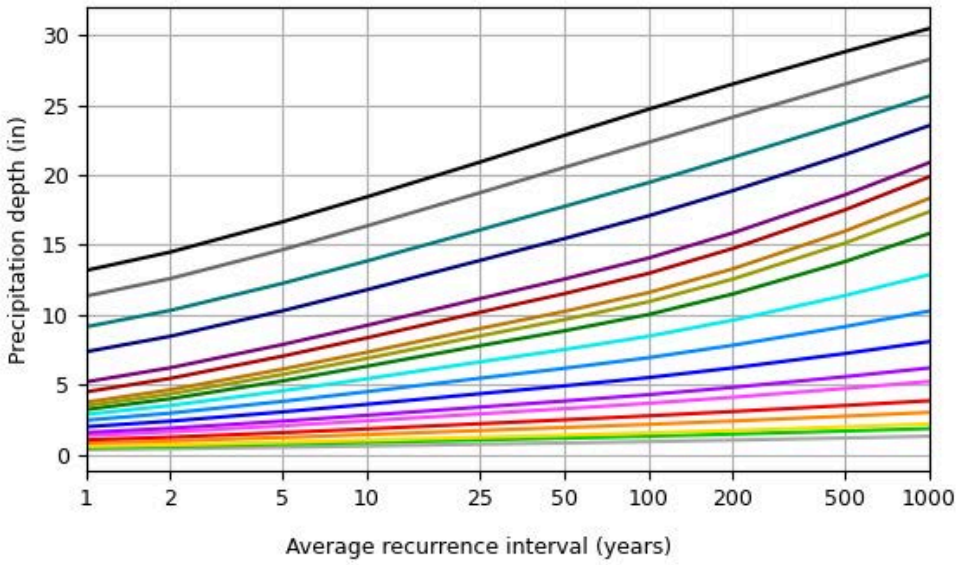
Back to Top

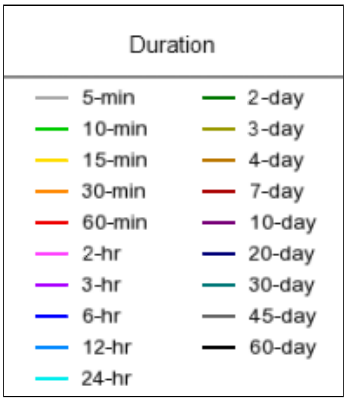
PF graphical

PDS-based depth-duration-frequency (DDF) curves
Latitude: 41.2295°, Longitude: -73.1956°







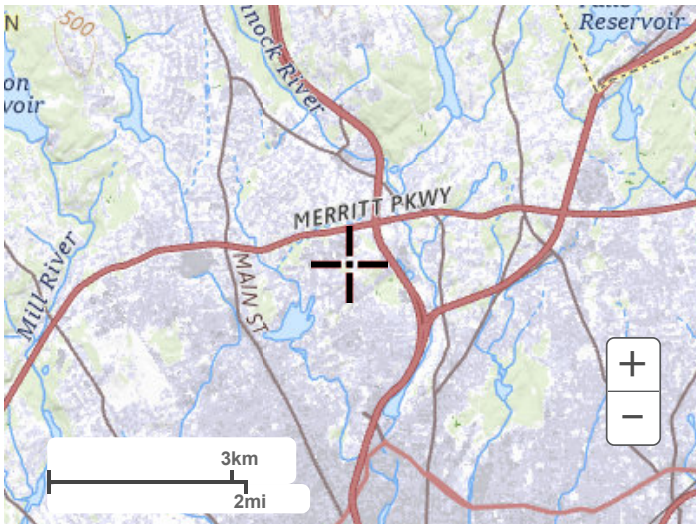


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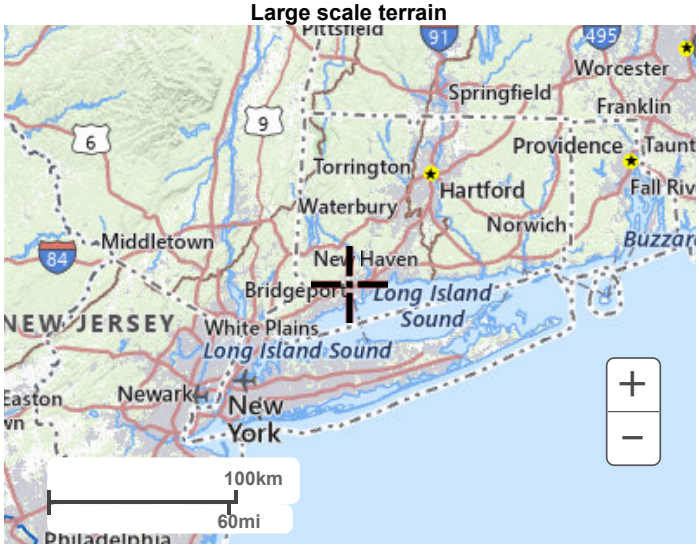
Back to Top

Maps & aerials

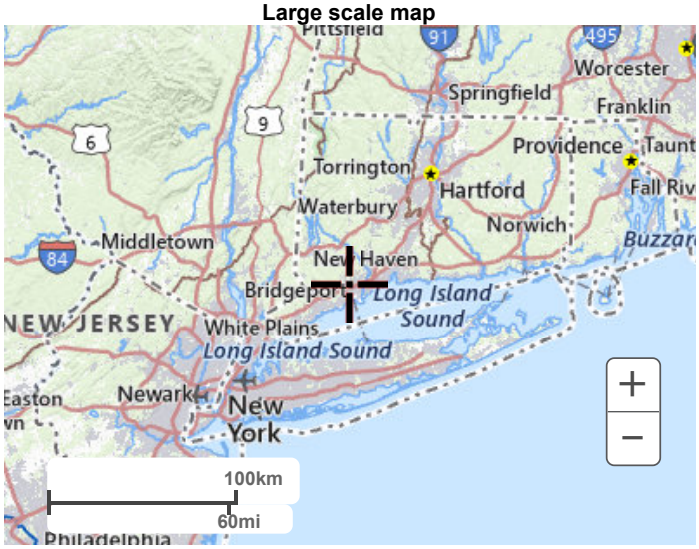
Small scale terrain



Large scale terrain



Large scale map



Large scale aerial



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US Department of Commerce
National Oceanic and Atmospheric Administration
National Weather Service
National Water Center
1325 East West Highway
Silver Spring, MD 20910
Questions?: HDSC.Questions@noaa.gov

Disclaimer

NOAA Atlas 14, Volume 10, Version 3
Location name: Trumbull, Connecticut, USA*
Latitude: 41.2295°, Longitude: -73.1956°
Elevation: 211 ft**
* source: ESRI Maps
** source: USGS

POINT PRECIPITATION FREQUENCY ESTIMATES

Sanja Perica, Sandra Pavlovic, Michael St. Laurent, Carl Trypaluk, Dale Unruh, Orlan Wilhite

NOAA, National Weather Service, Silver Spring, Maryland

PF_tabular | PF_graphical | Maps_&_aerials

PF tabular

PDS-based point precipitation frequency estimates with 90% confidence intervals (in inches/hour)[1]

Duration	Average recurrence interval (years)									
	1	2	5	10	25	50	100	200	500	1000
5-min	**4.26** (3.34-5.34)	**5.05** (3.95-6.34)	**6.35** (4.94-7.98)	**7.42** (5.76-9.38)	**8.89** (6.67-11.7)	**10.0** (7.36-13.4)	**11.2** (7.96-15.5)	**12.5** (8.41-17.6)	**14.3** (9.28-20.9)	**15.8** (10.0-23.5)
10-min	**3.01** (2.36-3.78)	**3.58** (2.80-4.49)	**4.49** (3.50-5.66)	**5.26** (4.07-6.64)	**6.30** (4.73-8.29)	**7.09** (5.21-9.50)	**7.92** (5.63-11.0)	**8.84** (5.96-12.5)	**10.1** (6.58-14.8)	**11.2** (7.09-16.7)
15-min	**2.36** (1.85-2.96)	**2.80** (2.20-3.52)	**3.52** (2.75-4.44)	**4.12** (3.20-5.22)	**4.94** (3.71-6.50)	**5.56** (4.09-7.46)	**6.21** (4.42-8.60)	**6.93** (4.67-9.80)	**7.95** (5.15-11.6)	**8.78** (5.56-13.1)
30-min	**1.65** (1.29-2.06)	**1.95** (1.53-2.45)	**2.45** (1.92-3.09)	**2.87** (2.23-3.63)	**3.44** (2.58-4.53)	**3.88** (2.84-5.19)	**4.33** (3.07-5.98)	**4.82** (3.25-6.81)	**5.50** (3.57-8.03)	**6.05** (3.83-9.00)
60-min	**1.06** (0.827-1.32)	**1.25** (0.980-1.57)	**1.57** (1.23-1.98)	**1.84** (1.43-2.33)	**2.21** (1.66-2.90)	**2.49** (1.82-3.33)	**2.78** (1.97-3.83)	**3.08** (2.08-4.36)	**3.51** (2.28-5.13)	**3.85** (2.44-5.73)
2-hr	**0.684** (0.539-0.852)	**0.816** (0.643-1.02)	**1.03** (0.810-1.29)	**1.21** (0.944-1.52)	**1.46** (1.10-1.90)	**1.64** (1.21-2.19)	**1.84** (1.31-2.53)	**2.05** (1.39-2.88)	**2.36** (1.54-3.43)	**2.62** (1.66-3.87)
3-hr	**0.526** (0.416-0.652)	**0.629** (0.497-0.781)	**0.798** (0.629-0.994)	**0.938** (0.734-1.17)	**1.13** (0.856-1.47)	**1.28** (0.945-1.70)	**1.43** (1.03-1.96)	**1.60** (1.09-2.24)	**1.86** (1.21-2.68)	**2.06** (1.31-3.04)
6-hr	**0.332** (0.265-0.410)	**0.400** (0.318-0.493)	**0.510** (0.404-0.631)	**0.601** (0.473-0.747)	**0.726** (0.553-0.942)	**0.820** (0.612-1.08)	**0.920** (0.666-1.26)	**1.04** (0.705-1.44)	**1.21** (0.789-1.73)	**1.35** (0.861-1.97)
12-hr	**0.204** (0.163-0.249)	**0.246** (0.197-0.302)	**0.315** (0.252-0.388)	**0.373** (0.296-0.461)	**0.452** (0.347-0.583)	**0.511** (0.384-0.673)	**0.575** (0.419-0.784)	**0.649** (0.444-0.896)	**0.759** (0.498-1.08)	**0.852** (0.545-1.24)
24-hr	**0.119** (0.096-0.145)	**0.146** (0.118-0.178)	**0.190** (0.152-0.232)	**0.226** (0.180-0.277)	**0.275** (0.213-0.353)	**0.312** (0.236-0.409)	**0.352** (0.259-0.480)	**0.400** (0.274-0.549)	**0.473** (0.311-0.670)	**0.536** (0.344-0.772)
2-day	**0.067** (0.054-0.080)	**0.083** (0.067-0.100)	**0.109** (0.088-0.133)	**0.131** (0.105-0.160)	**0.161** (0.126-0.207)	**0.184** (0.140-0.240)	**0.208** (0.155-0.284)	**0.239** (0.164-0.326)	**0.287** (0.189-0.404)	**0.329** (0.212-0.471)
3-day	**0.048** (0.039-0.058)	**0.060** (0.049-0.072)	**0.079** (0.064-0.096)	**0.095** (0.077-0.116)	**0.117** (0.091-0.149)	**0.133** (0.102-0.174)	**0.151** (0.113-0.206)	**0.174** (0.120-0.236)	**0.210** (0.138-0.294)	**0.241** (0.155-0.343)
4-day	**0.039** (0.031-0.046)	**0.048** (0.039-0.058)	**0.063** (0.051-0.076)	**0.076** (0.061-0.092)	**0.093** (0.073-0.119)	**0.106** (0.081-0.138)	**0.120** (0.090-0.163)	**0.138** (0.095-0.187)	**0.166** (0.110-0.232)	**0.190** (0.123-0.271)
7-day	**0.026** (0.021-0.031)	**0.032** (0.026-0.038)	**0.041** (0.034-0.050)	**0.049** (0.040-0.059)	**0.060** (0.047-0.076)	**0.068** (0.052-0.088)	**0.077** (0.057-0.103)	**0.087** (0.060-0.118)	**0.104** (0.069-0.144)	**0.118** (0.076-0.166)
10-day	**0.021** (0.017-0.025)	**0.025** (0.021-0.030)	**0.032** (0.026-0.039)	**0.038** (0.031-0.046)	**0.046** (0.036-0.058)	**0.052** (0.040-0.066)	**0.058** (0.043-0.077)	**0.066** (0.045-0.088)	**0.077** (0.051-0.106)	**0.087** (0.056-0.122)
20-day	**0.015** (0.012-0.018)	**0.017** (0.014-0.020)	**0.021** (0.017-0.025)	**0.024** (0.020-0.029)	**0.028** (0.022-0.035)	**0.032** (0.024-0.040)	**0.035** (0.026-0.046)	**0.039** (0.027-0.052)	**0.044** (0.029-0.061)	**0.049** (0.031-0.068)
30-day	**0.012** (0.010-0.014)	**0.014** (0.011-0.016)	**0.016** (0.014-0.020)	**0.019** (0.015-0.022)	**0.022** (0.017-0.027)	**0.024** (0.018-0.030)	**0.026** (0.019-0.034)	**0.029** (0.020-0.038)	**0.032** (0.022-0.044)	**0.035** (0.023-0.049)
45-day	**0.010** (0.008-0.012)	**0.011** (0.009-0.013)	**0.013** (0.011-0.015)	**0.015** (0.012-0.017)	**0.017** (0.013-0.021)	**0.019** (0.014-0.023)	**0.020** (0.015-0.026)	**0.022** (0.015-0.029)	**0.024** (0.016-0.033)	**0.026** (0.017-0.036)
60-day	**0.009** (0.007-0.010)	**0.010** (0.008-0.011)	**0.011** (0.009-0.013)	**0.012** (0.010-0.015)	**0.014** (0.011-0.017)	**0.015** (0.012-0.019)	**0.017** (0.012-0.021)	**0.018** (0.013-0.024)	**0.020** (0.013-0.027)	**0.021** (0.013-0.029)

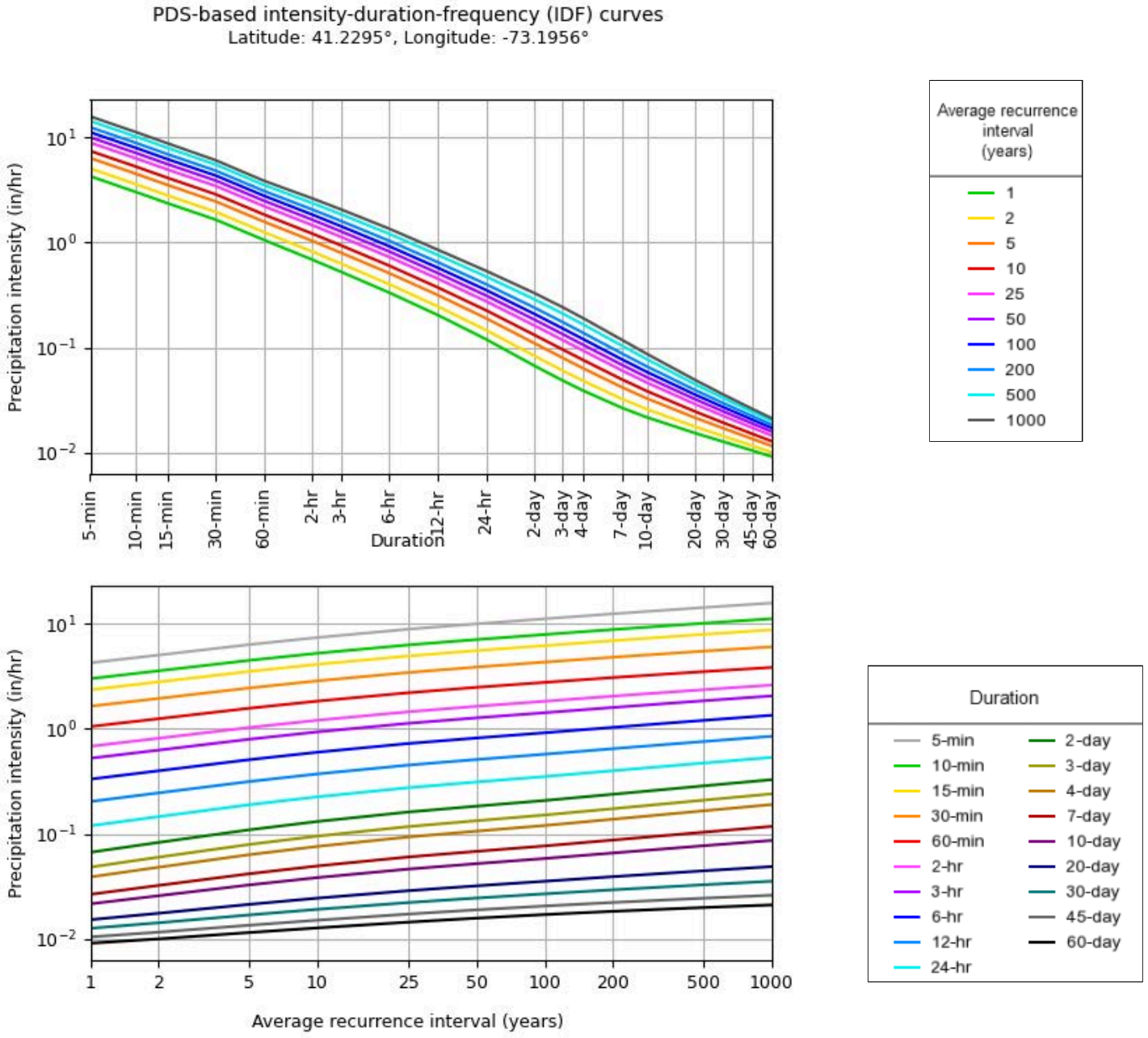
[1] Precipitation frequency (PF) estimates in this table are based on frequency analysis of partial duration series (PDS).

Numbers in parenthesis are PF estimates at lower and upper bounds of the 90% confidence interval. The probability that precipitation frequency estimates (for a given duration and average recurrence interval) will be greater than the upper bound (or less than the lower bound) is 5%. Estimates at upper bounds are not checked against probable maximum precipitation (PMP) estimates and may be higher than currently valid PMP values.

Please refer to NOAA Atlas 14 document for more information.

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PF graphical



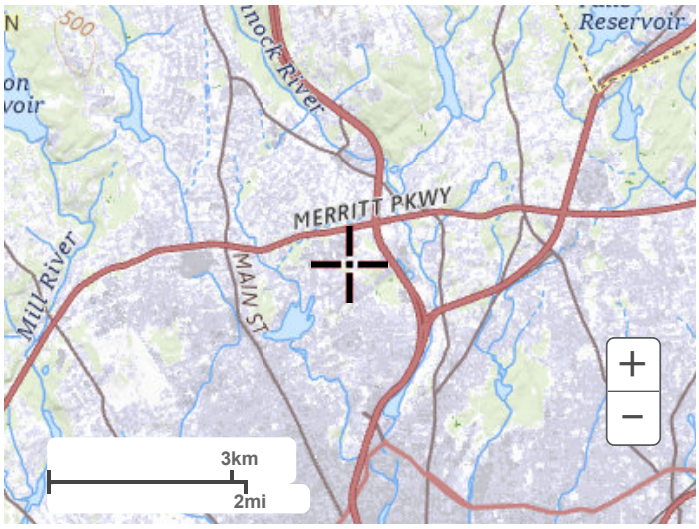
NOAA Atlas 14, Volume 10, Version 3

Created (GMT): Thu Jul 31 14:57:32 2025

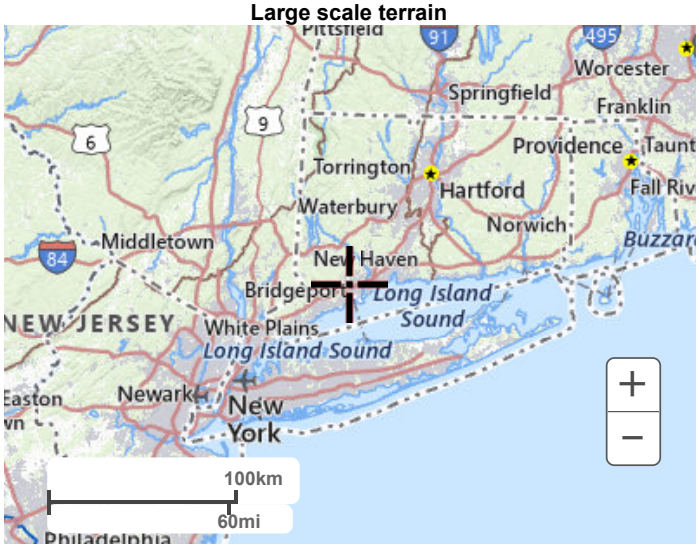
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Maps & aerials

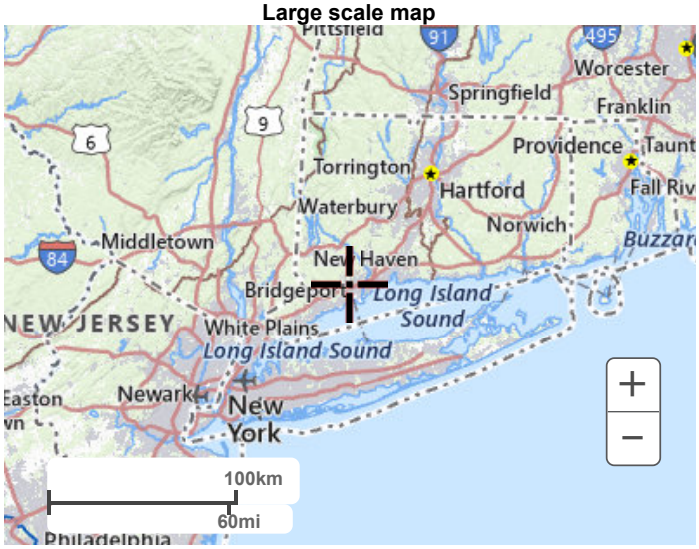
Small scale terrain



Large scale terrain



Large scale map



Large scale aerial



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US Department of Commerce
National Oceanic and Atmospheric Administration
National Weather Service
National Water Center
1325 East West Highway
Silver Spring, MD 20910
Questions?: HDSC.Questions@noaa.gov

Disclaimer

GENERAL NOTES

1. EXISTING BOUNDARY AND TOPOGRAPHY IS BASED ON DRAWING TITLED "PROPERTY SURVEY OF 2135, 2145 & 2155 RESERVOIR AVENUE TRUMBULL CONNECTICUT", SCALE 1"=30', DATED JULY 24, 2025, BY ACCURATE LAND SURVEYING LLC.
2. STORMWATER RUNOFF ANALYSIS WAS CALCULATED USING THE SCS TR-55 METHODOLOGY.
3. OFF-SITE TOPOGRAPHY DATA IS BASED ON CT ECO FILES.
4. CT ECO AND SURVEY CONTOURS HAVE BEEN ADJUSTED TO ALIGN SMOOTHLY, AND MAY NOT BE PERFECTLY ACCURATE.

LEGEND

- PROPERTY LINE
- ADJOINING LOT LINE
- LIMIT OF DRAINAGE AREA
- FLOW PATH
- SOIL TYPE BOUNDARY
- 51B — SOIL TYPE

ROCKY HILL TERRACE

RESERVOIR AVENUE

D

B/D

B

C

D

EXISTING DRAINAGE AREA (EDA#1)
HYDROLOGIC SOIL GROUPS B, C, & D
TOTAL AREA = 11.81 AC
IMPERVIOUS AREA = 1.44 AC
OPEN SPACE (GOOD B) = 1.24 AC
OPEN SPACE (GOOD D) = 3.55 AC
OPEN SPACE (POOR D) = 0.11 AC
OPEN SPACE (GOOD C) = 0.16 AC
DIRT DRIVEWAY (B) = 0.03 AC
DIRT DRIVEWAY (D) = 0.70 AC
WOODS (GOOD B) = 2.78 AC
WOODS (GOOD D) = 1.35 AC
WOODS (GOOD C) = 0.45 AC
CURVE NUMBER = 74
TIME OF CONCENTRATION = 13.9 MIN.

Rev. #:	Date	Description

Graphic Scale: 50 0 50 100

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Drawn By:	DJR
Checked By:	LAM
Approved By:	KMS
Project #:	24116901
Plan Date:	10/31/25
Scale:	1" = 50'

Kevin Solli, P.E.
CT 25759

Project:

PROPOSED REDEVELOPMENT

2135, 2145, & 2155 RESERVOIR AVENUE
TRUMBULL, CONNECTICUT

Sheet Title: EXISTING DRAINAGE AREA MAP

Sheet #: EDA

Nov 05, 2025 - 12:34pm drosemark
X:\SE Files\Project Data\2024\24116901 - 2135, 2145, 2155 Reservoir Ave - Trumbull, CT\Engineering Data\CAD Files\24116901 - EDA.dwg



GENERAL NOTES

1. EXISTING BOUNDARY AND TOPOGRAPHY IS BASED ON DRAWING TITLED "PROPERTY SURVEY OF 2135, 2145 & 2155 RESERVOIR AVENUE TRUMBULL CONNECTICUT", SCALE 1"=30', DATED JULY 24, 2025, BY ACCURATE LAND SURVEYING LLC.
2. STORMWATER RUNOFF ANALYSIS WAS CALCULATED USING THE SCS TR-55 METHODOLOGY.
3. OFF-SITE TOPOGRAPHY DATA IS BASED ON CTECO MAP READER TOWN OF TRUMBULL, CT.
4. CT ECO AND SURVEY CONTOURS HAVE BEEN ADJUSTED TO ALIGN SMOOTHLY, AND MAY NOT BE PERFECTLY ACCURATE.

LEGEND

- PROPERTY LINE
- ADJOINING LOT LINE
- LIMIT OF DRAINAGE AREA
- FLOW PATH
- SOIL TYPE BOUNDARY
- B — SOIL TYPE

Rev. #:	Date	Description

Graphic Scale: 50 0 50 100

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Drawn By:	DJR
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Plan Date:	11/07/25
Scale:	1" = 50'

Kevin Solli, P.E.
CT 25759

Project:

PROPOSED REDEVELOPMENT

2135, 2145, & 2155 RESERVOIR AVENUE
TRUMBULL, CONNECTICUT

Sheet Title: PROPOSED DRAINAGE AREA MAP

Sheet #: PDA

Nov 07, 2025 – 12:40pm droosemark
X:\SE Files\Project Data\2024\24116901 – 2135, 2145, 2155 Reservoir Ave – Trumbull, CT\Engineering Data\CAD Files\24116901 – PDA.dwg



Existing Drainage Area 1

Subcat Reach Pond Link

Routing Diagram for 2135, 2145, 2155 Reservoir Ave - Trumbull, CT - EDA
Prepared by Solli Engineering, Printed 11/5/2025
HydroCAD® 10.00-22 s/n 10622 © 2018 HydroCAD Software Solutions LLC

Summary for Subcatchment EDA-1: Existing Drainage Area 1

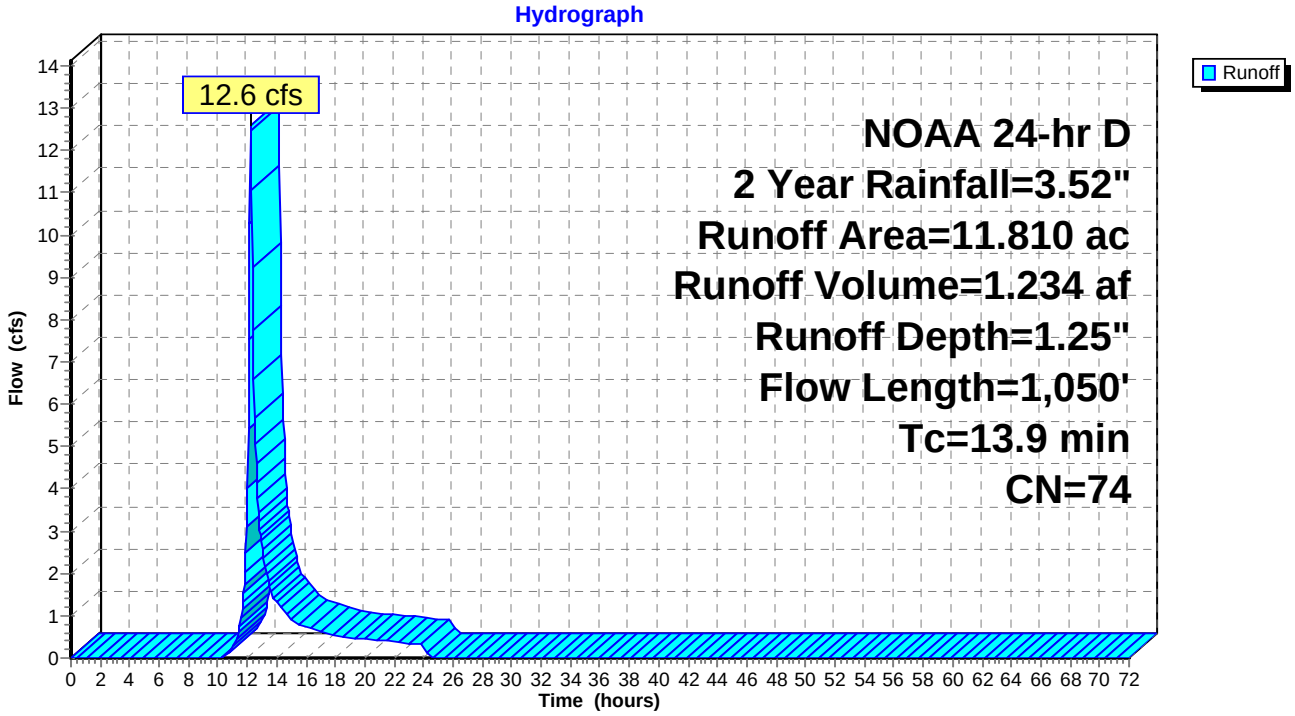
Runoff = 12.6 cfs @ 12.23 hrs, Volume= 1.234 af, Depth= 1.25"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr D 2 Year Rainfall=3.52"

Area (ac)	CN	Description
1.440	98	Paved parking, HSG D
1.240	61	>75% Grass cover, Good, HSG B
3.550	80	>75% Grass cover, Good, HSG D
0.110	89	<50% Grass cover, Poor, HSG D
0.030	82	Dirt roads, HSG B
0.700	89	Dirt roads, HSG D
2.780	55	Woods, Good, HSG B
1.350	77	Woods, Good, HSG D
0.450	70	Woods, Good, HSG C
0.160	74	>75% Grass cover, Good, HSG C
11.810	74	Weighted Average
10.370		87.81% Pervious Area
1.440		12.19% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.5	100	0.0250	0.20		**Sheet Flow,** Grass: Short n= 0.150 P2= 3.52"
0.2	45	0.0900	4.83		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
1.3	277	0.0505	3.62		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.1	21	0.0702	4.27		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.5	79	0.0299	2.78		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.4	72	0.0299	2.78		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
1.8	305	0.0311	2.84		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.6	84	0.0120	2.22		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
0.3	34	0.0145	1.94		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.2	33	0.0302	2.80		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
13.9	1,050	Total			

Subcatchment EDA-1: Existing Drainage Area 1



Summary for Subcatchment EDA-1: Existing Drainage Area 1

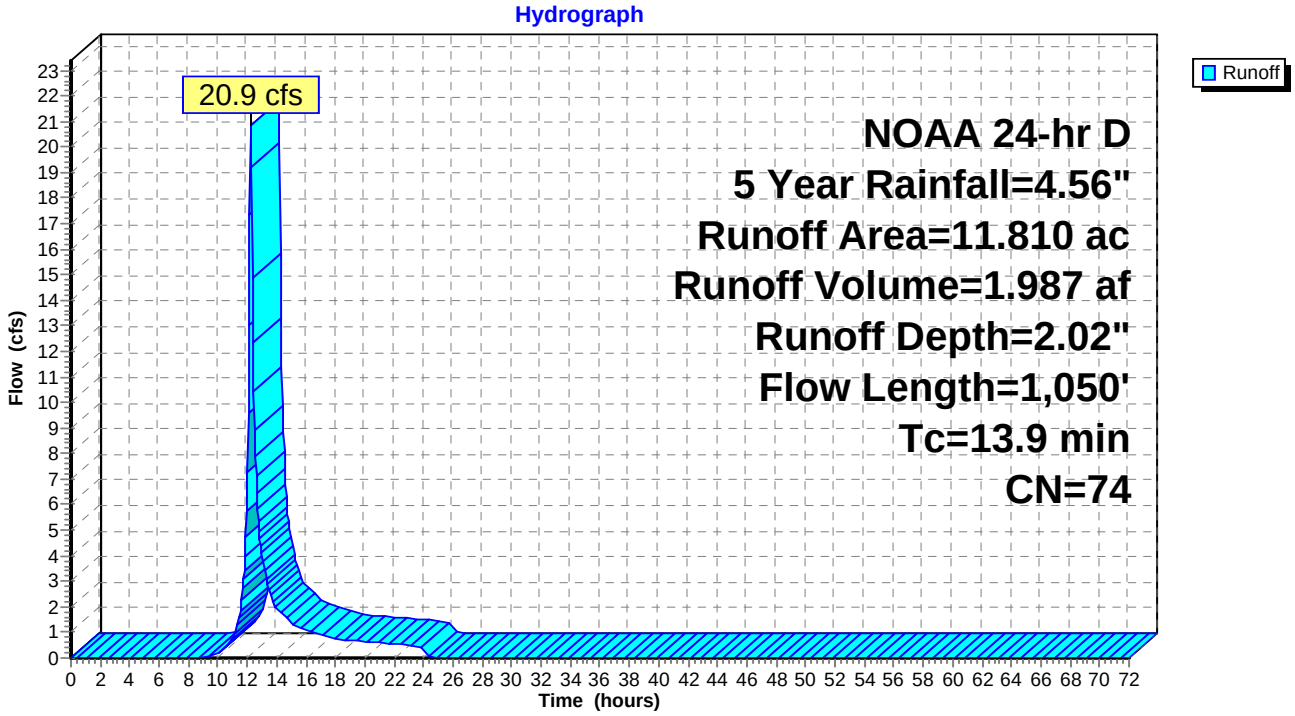
Runoff = 20.9 cfs @ 12.22 hrs, Volume= 1.987 af, Depth= 2.02"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr D 5 Year Rainfall=4.56"

Area (ac)	CN	Description
1.440	98	Paved parking, HSG D
1.240	61	>75% Grass cover, Good, HSG B
3.550	80	>75% Grass cover, Good, HSG D
0.110	89	<50% Grass cover, Poor, HSG D
0.030	82	Dirt roads, HSG B
0.700	89	Dirt roads, HSG D
2.780	55	Woods, Good, HSG B
1.350	77	Woods, Good, HSG D
0.450	70	Woods, Good, HSG C
0.160	74	>75% Grass cover, Good, HSG C
11.810	74	Weighted Average
10.370		87.81% Pervious Area
1.440		12.19% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.5	100	0.0250	0.20		**Sheet Flow,** Grass: Short n= 0.150 P2= 3.52"
0.2	45	0.0900	4.83		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
1.3	277	0.0505	3.62		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.1	21	0.0702	4.27		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.5	79	0.0299	2.78		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.4	72	0.0299	2.78		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
1.8	305	0.0311	2.84		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.6	84	0.0120	2.22		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
0.3	34	0.0145	1.94		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.2	33	0.0302	2.80		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
13.9	1,050	Total			

Subcatchment EDA-1: Existing Drainage Area 1



Summary for Subcatchment EDA-1: Existing Drainage Area 1

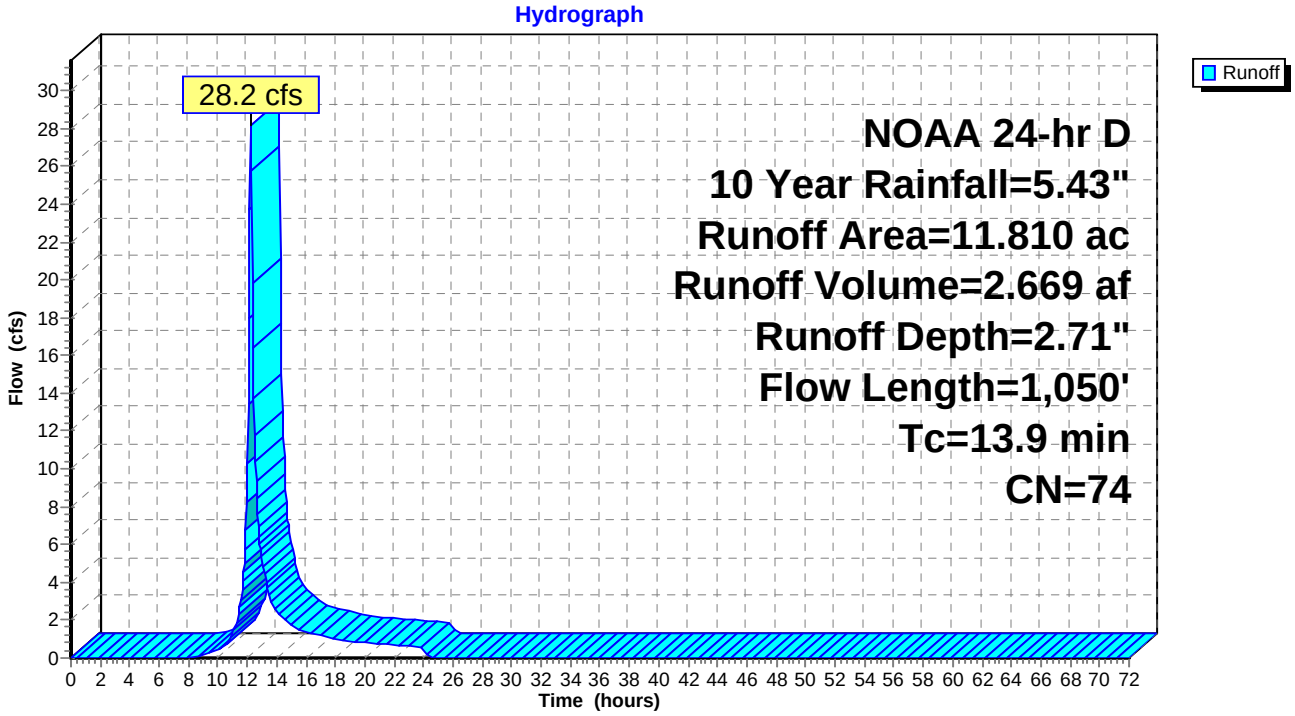
Runoff = 28.2 cfs @ 12.22 hrs, Volume= 2.669 af, Depth= 2.71"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr D 10 Year Rainfall=5.43"

Area (ac)	CN	Description
1.440	98	Paved parking, HSG D
1.240	61	>75% Grass cover, Good, HSG B
3.550	80	>75% Grass cover, Good, HSG D
0.110	89	<50% Grass cover, Poor, HSG D
0.030	82	Dirt roads, HSG B
0.700	89	Dirt roads, HSG D
2.780	55	Woods, Good, HSG B
1.350	77	Woods, Good, HSG D
0.450	70	Woods, Good, HSG C
0.160	74	>75% Grass cover, Good, HSG C
11.810	74	Weighted Average
10.370		87.81% Pervious Area
1.440		12.19% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.5	100	0.0250	0.20		**Sheet Flow,** Grass: Short n= 0.150 P2= 3.52"
0.2	45	0.0900	4.83		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
1.3	277	0.0505	3.62		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.1	21	0.0702	4.27		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.5	79	0.0299	2.78		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.4	72	0.0299	2.78		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
1.8	305	0.0311	2.84		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.6	84	0.0120	2.22		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
0.3	34	0.0145	1.94		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.2	33	0.0302	2.80		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
13.9	1,050	Total			

Subcatchment EDA-1: Existing Drainage Area 1



Summary for Subcatchment EDA-1: Existing Drainage Area 1

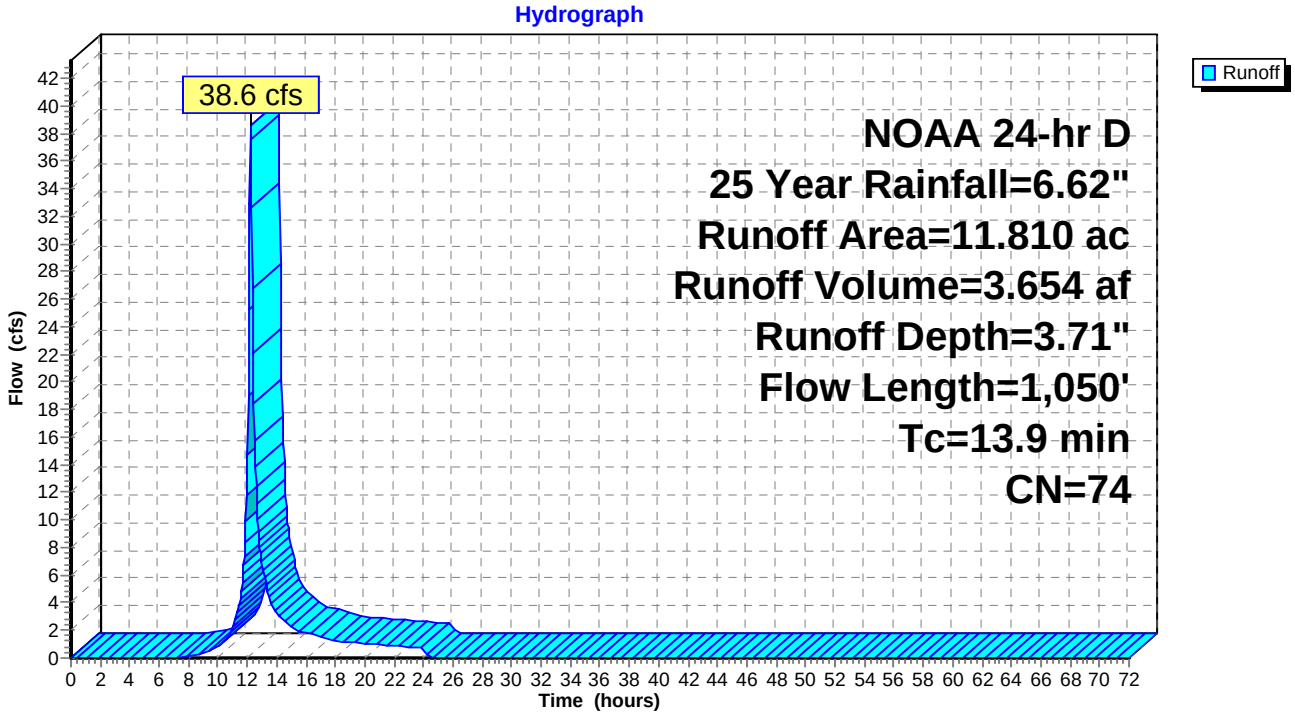
Runoff = 38.6 cfs @ 12.22 hrs, Volume= 3.654 af, Depth= 3.71"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr D 25 Year Rainfall=6.62"

Area (ac)	CN	Description
1.440	98	Paved parking, HSG D
1.240	61	>75% Grass cover, Good, HSG B
3.550	80	>75% Grass cover, Good, HSG D
0.110	89	<50% Grass cover, Poor, HSG D
0.030	82	Dirt roads, HSG B
0.700	89	Dirt roads, HSG D
2.780	55	Woods, Good, HSG B
1.350	77	Woods, Good, HSG D
0.450	70	Woods, Good, HSG C
0.160	74	>75% Grass cover, Good, HSG C
11.810	74	Weighted Average
10.370		87.81% Pervious Area
1.440		12.19% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.5	100	0.0250	0.20		**Sheet Flow,** Grass: Short n= 0.150 P2= 3.52"
0.2	45	0.0900	4.83		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
1.3	277	0.0505	3.62		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.1	21	0.0702	4.27		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.5	79	0.0299	2.78		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.4	72	0.0299	2.78		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
1.8	305	0.0311	2.84		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.6	84	0.0120	2.22		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
0.3	34	0.0145	1.94		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.2	33	0.0302	2.80		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
13.9	1,050	Total			

Subcatchment EDA-1: Existing Drainage Area 1



Summary for Subcatchment EDA-1: Existing Drainage Area 1

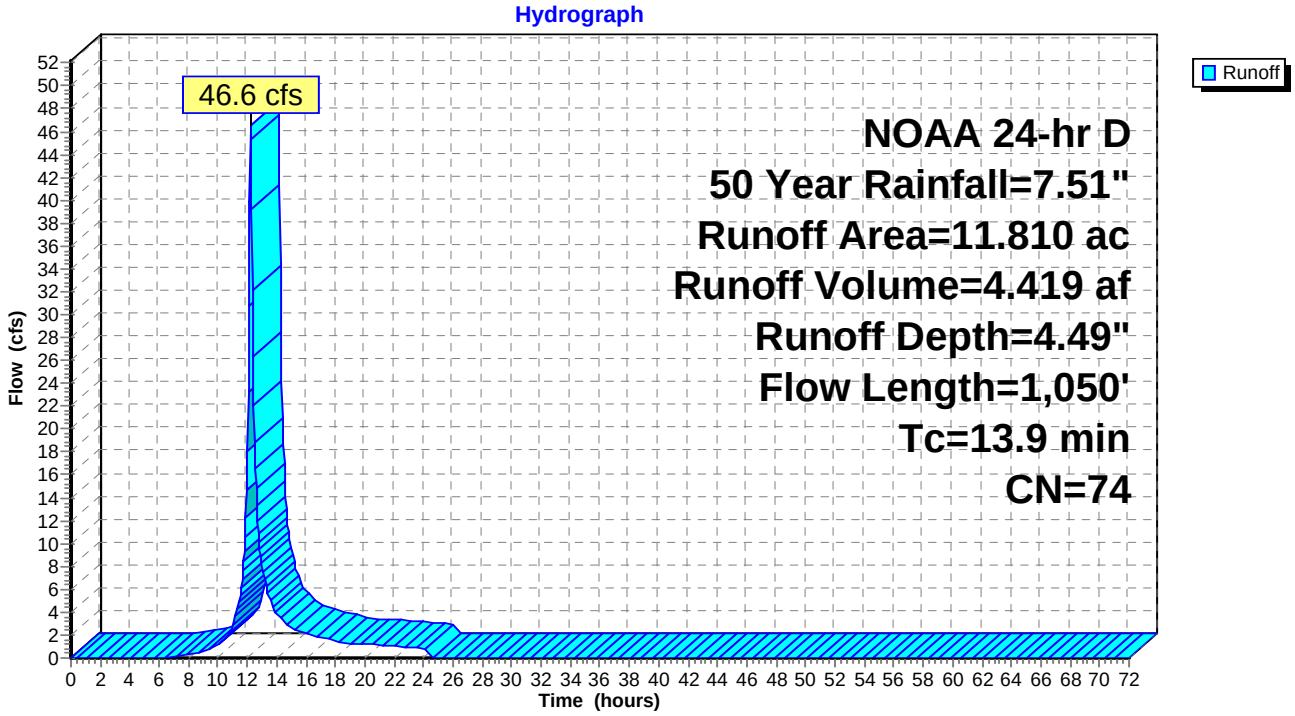
Runoff = 46.6 cfs @ 12.22 hrs, Volume= 4.419 af, Depth= 4.49"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr D 50 Year Rainfall=7.51"

Area (ac)	CN	Description
1.440	98	Paved parking, HSG D
1.240	61	>75% Grass cover, Good, HSG B
3.550	80	>75% Grass cover, Good, HSG D
0.110	89	<50% Grass cover, Poor, HSG D
0.030	82	Dirt roads, HSG B
0.700	89	Dirt roads, HSG D
2.780	55	Woods, Good, HSG B
1.350	77	Woods, Good, HSG D
0.450	70	Woods, Good, HSG C
0.160	74	>75% Grass cover, Good, HSG C
11.810	74	Weighted Average
10.370		87.81% Pervious Area
1.440		12.19% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.5	100	0.0250	0.20		**Sheet Flow,** Grass: Short n= 0.150 P2= 3.52"
0.2	45	0.0900	4.83		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
1.3	277	0.0505	3.62		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.1	21	0.0702	4.27		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.5	79	0.0299	2.78		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.4	72	0.0299	2.78		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
1.8	305	0.0311	2.84		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.6	84	0.0120	2.22		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
0.3	34	0.0145	1.94		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.2	33	0.0302	2.80		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
13.9	1,050	Total			

Subcatchment EDA-1: Existing Drainage Area 1



Summary for Subcatchment EDA-1: Existing Drainage Area 1

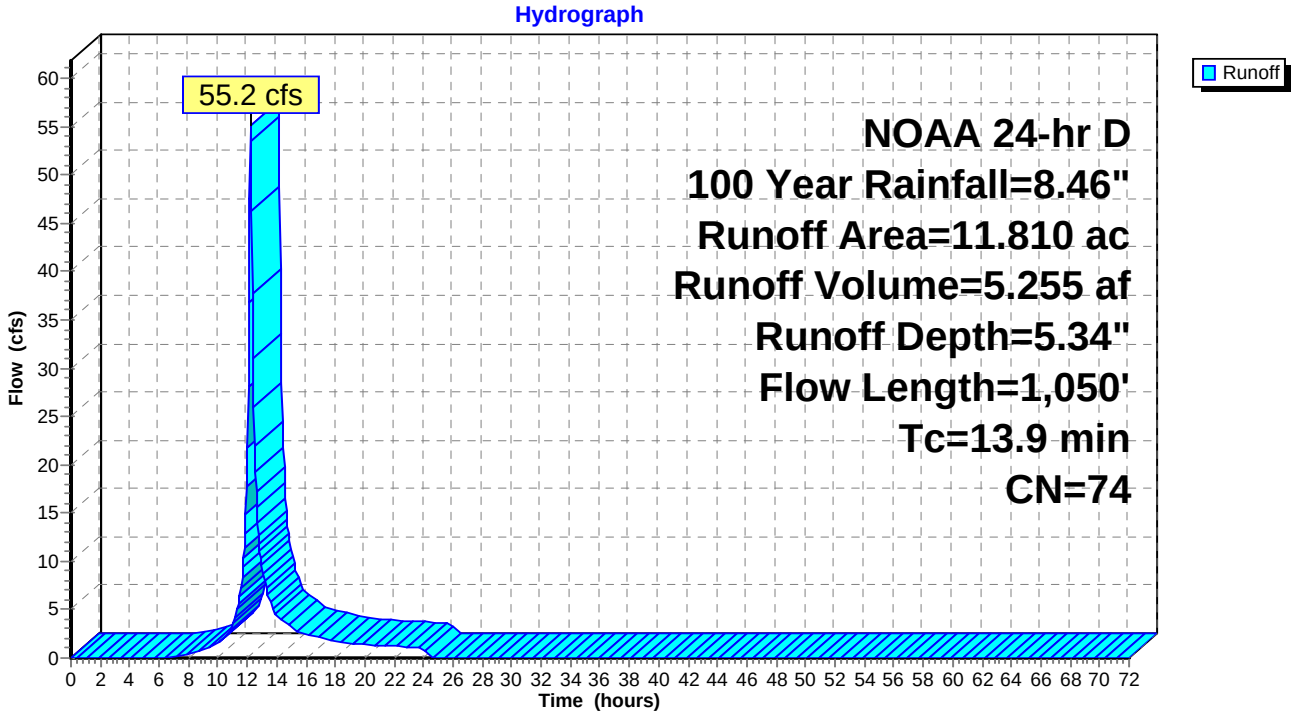
Runoff = 55.2 cfs @ 12.22 hrs, Volume= 5.255 af, Depth= 5.34"

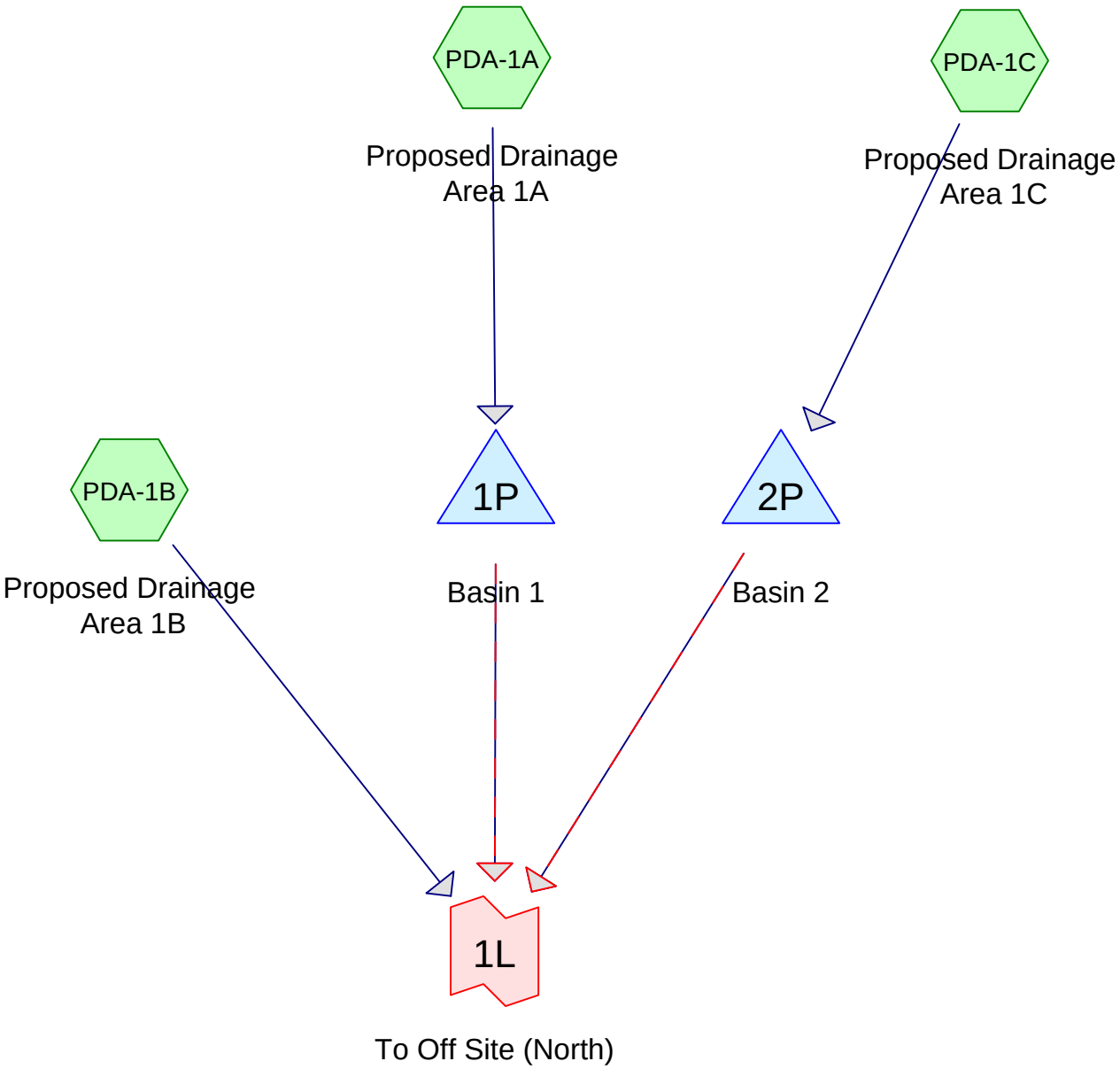
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr D 100 Year Rainfall=8.46"

Area (ac)	CN	Description
1.440	98	Paved parking, HSG D
1.240	61	>75% Grass cover, Good, HSG B
3.550	80	>75% Grass cover, Good, HSG D
0.110	89	<50% Grass cover, Poor, HSG D
0.030	82	Dirt roads, HSG B
0.700	89	Dirt roads, HSG D
2.780	55	Woods, Good, HSG B
1.350	77	Woods, Good, HSG D
0.450	70	Woods, Good, HSG C
0.160	74	>75% Grass cover, Good, HSG C
11.810	74	Weighted Average
10.370		87.81% Pervious Area
1.440		12.19% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
8.5	100	0.0250	0.20		**Sheet Flow,** Grass: Short n= 0.150 P2= 3.52"
0.2	45	0.0900	4.83		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
1.3	277	0.0505	3.62		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.1	21	0.0702	4.27		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.5	79	0.0299	2.78		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.4	72	0.0299	2.78		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
1.8	305	0.0311	2.84		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.6	84	0.0120	2.22		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
0.3	34	0.0145	1.94		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.2	33	0.0302	2.80		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
13.9	1,050	Total			

Subcatchment EDA-1: Existing Drainage Area 1





Subcat Reach Pond Link

Routing Diagram for 2135, 2145, 2155 Reservoir Ave - Trumbull, CT - PDA

Prepared by Solli Engineering, Printed 11/6/2025

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Summary for Subcatchment PDA-1A: Proposed Drainage Area 1A

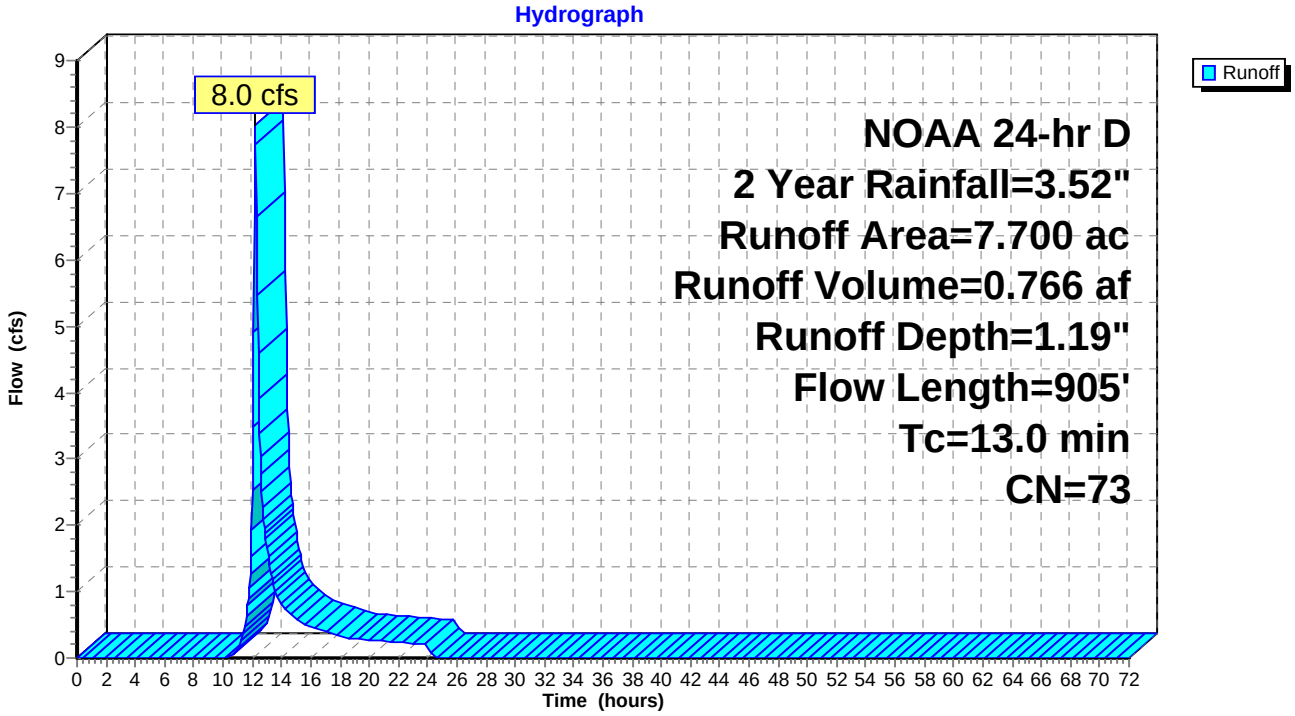
Runoff = 8.0 cfs @ 12.22 hrs, Volume= 0.766 af, Depth= 1.19"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr D 2 Year Rainfall=3.52"

Area (ac)	CN	Description
2.270	98	Paved parking, HSG D
0.720	61	>75% Grass cover, Good, HSG B
0.020	74	>75% Grass cover, Good, HSG C
0.520	80	>75% Grass cover, Good, HSG D
2.890	55	Woods, Good, HSG B
0.300	70	Woods, Good, HSG C
0.980	77	Woods, Good, HSG D
7.700	73	Weighted Average
5.430		70.52% Pervious Area
2.270		29.48% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.7	100	0.0180	0.17		**Sheet Flow,** Grass: Short n= 0.150 P2= 3.52"
0.8	187	0.0535	3.72		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
1.1	229	0.0437	3.37		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.7	121	0.0331	2.93		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.3	69	0.0667	4.16		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.1	69	0.0490	11.65	14.30	**Pipe Channel,** 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.013
0.2	70	0.0043	4.72	14.83	**Pipe Channel,** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.1	60	0.0100	7.20	22.62	**Pipe Channel,** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
13.0	905	Total			

Subcatchment PDA-1A: Proposed Drainage Area 1A



Summary for Subcatchment PDA-1B: Proposed Drainage Area 1B

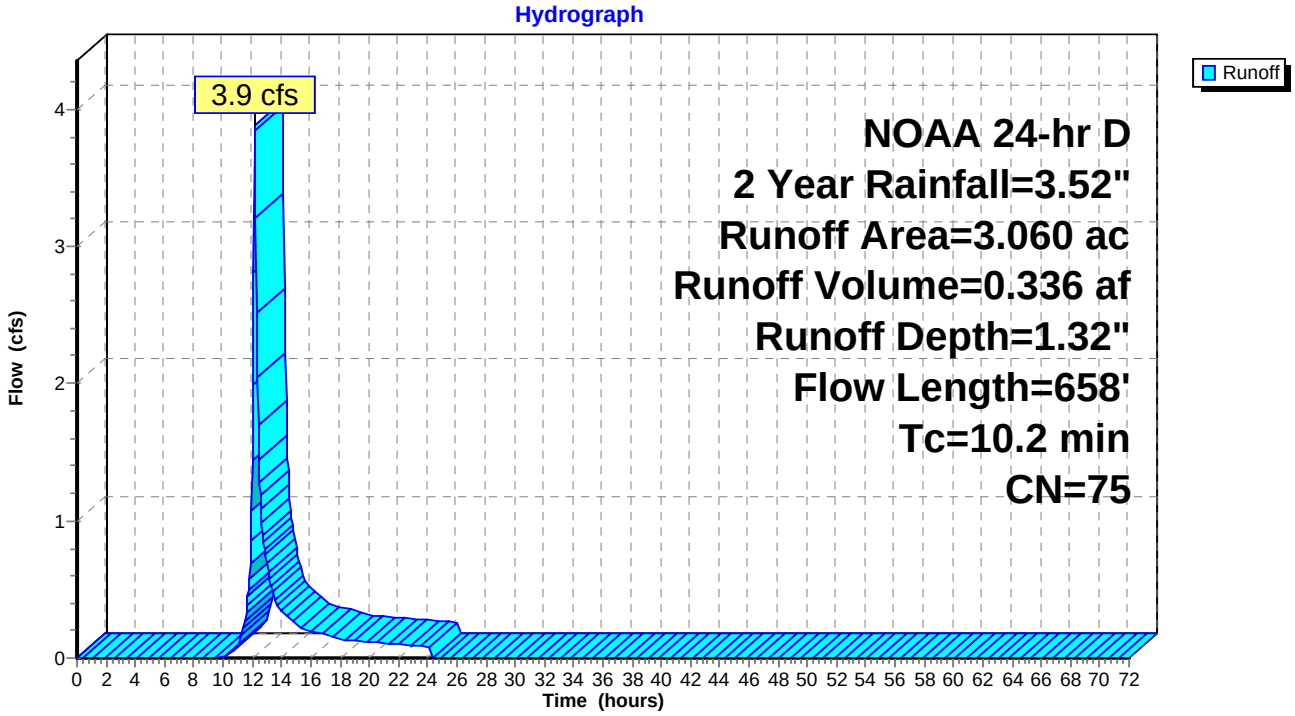
Runoff = 3.9 cfs @ 12.18 hrs, Volume= 0.336 af, Depth= 1.32"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr D 2 Year Rainfall=3.52"

Area (ac)	CN	Description
0.220	98	Paved parking, HSG D
0.160	61	>75% Grass cover, Good, HSG B
0.050	74	>75% Grass cover, Good, HSG C
0.870	80	>75% Grass cover, Good, HSG D
0.330	55	Woods, Good, HSG B
0.380	70	Woods, Good, HSG C
1.050	77	Woods, Good, HSG D
3.060	75	Weighted Average
2.840		92.81% Pervious Area
0.220		7.19% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.5	100	0.0500	0.26		**Sheet Flow,** Grass: Short n= 0.150 P2= 3.52"
1.4	324	0.0556	3.80		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.1	13	0.0154	2.00		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
2.2	221	0.0113	1.71		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
10.2	658	Total			

Subcatchment PDA-1B: Proposed Drainage Area 1B



Summary for Subcatchment PDA-1C: Proposed Drainage Area 1C

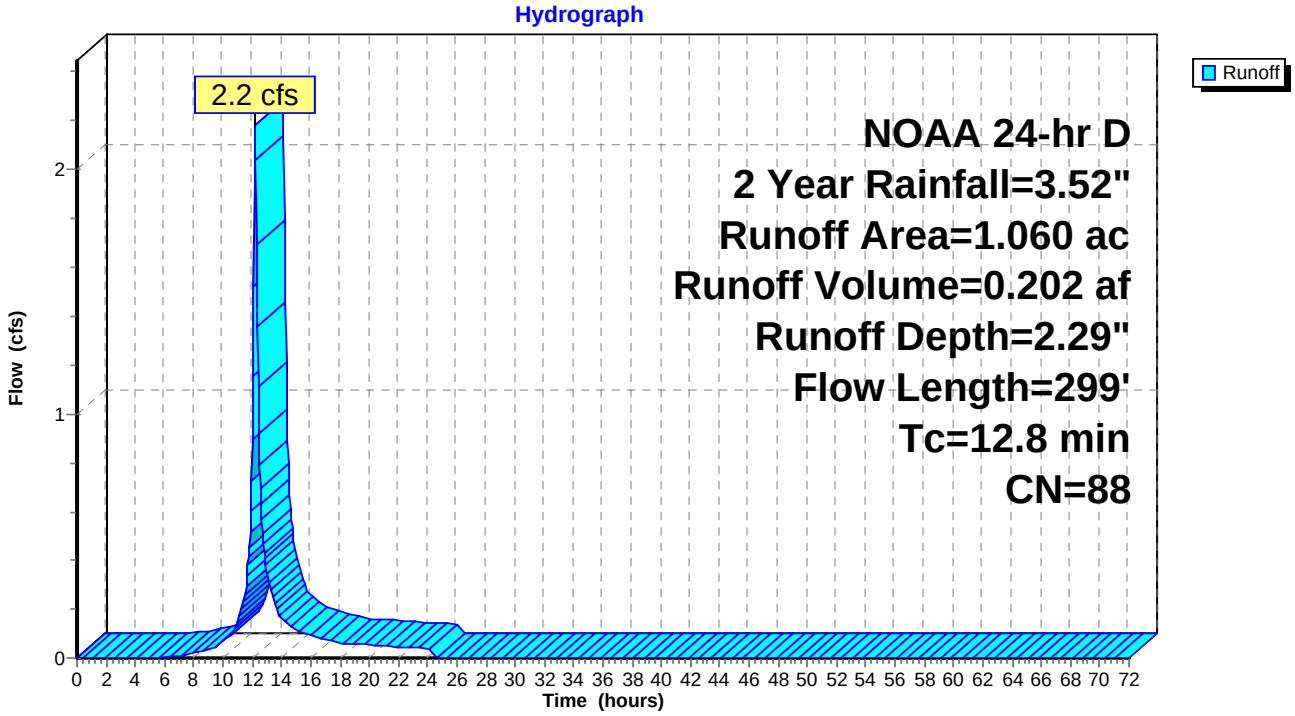
Runoff = 2.2 cfs @ 12.21 hrs, Volume= 0.202 af, Depth= 2.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr D 2 Year Rainfall=3.52"

Area (ac)	CN	Description
0.700	98	Paved parking, HSG B
0.190	61	>75% Grass cover, Good, HSG B
0.170	80	>75% Grass cover, Good, HSG D
1.060	88	Weighted Average
0.360		33.96% Pervious Area
0.700		66.04% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.5	100	0.0120	0.15		**Sheet Flow,** Grass: Short n= 0.150 P2= 3.52"
0.6	59	0.0120	1.76		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.6	120	0.0291	3.46		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
0.0	4	0.0250	11.39	35.77	**Pipe Channel,** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.1	16	0.0050	5.09	16.00	**Pipe Channel,** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
12.8	299	Total			

Subcatchment PDA-1C: Proposed Drainage Area 1C



Summary for Pond 1P: Basin 1

Inflow Area = 7.700 ac, 29.48% Impervious, Inflow Depth = 1.19" for 2 Year event
Inflow = 8.0 cfs @ 12.22 hrs, Volume= 0.766 af
Outflow = 3.5 cfs @ 12.49 hrs, Volume= 0.766 af, Atten= 56%, Lag= 16.5 min
Discarded = 0.2 cfs @ 12.49 hrs, Volume= 0.377 af
Primary = 3.3 cfs @ 12.49 hrs, Volume= 0.389 af
Secondary = 0.0 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 203.2' @ 12.49 hrs Surf.Area= 0.090 ac Storage= 0.224 af

Plug-Flow detention time= 266.0 min calculated for 0.766 af (100% of inflow)
Center-of-Mass det. time= 265.8 min (1,144.4 - 878.6)

Volume	Invert	Avail.Storage	Storage Description
#1	200.0'	0.736 af	**Custom Stage Data (Irregular)** Listed below (Recalc)

Elevation (feet)	Surf.Area (acres)	Perim. (feet)	Inc.Store (acre-feet)	Cum.Store (acre-feet)	Wet.Area (acres)
200.0	0.050	244.0	0.000	0.000	0.050
201.0	0.062	256.0	0.056	0.056	0.062
202.0	0.074	269.0	0.068	0.124	0.076
203.0	0.087	281.0	0.080	0.204	0.090
204.0	0.100	294.0	0.093	0.298	0.105
205.0	0.114	306.0	0.107	0.405	0.120
206.0	0.128	319.0	0.121	0.525	0.136
207.0	0.143	331.0	0.135	0.661	0.152
207.5	0.158	344.0	0.075	0.736	0.169

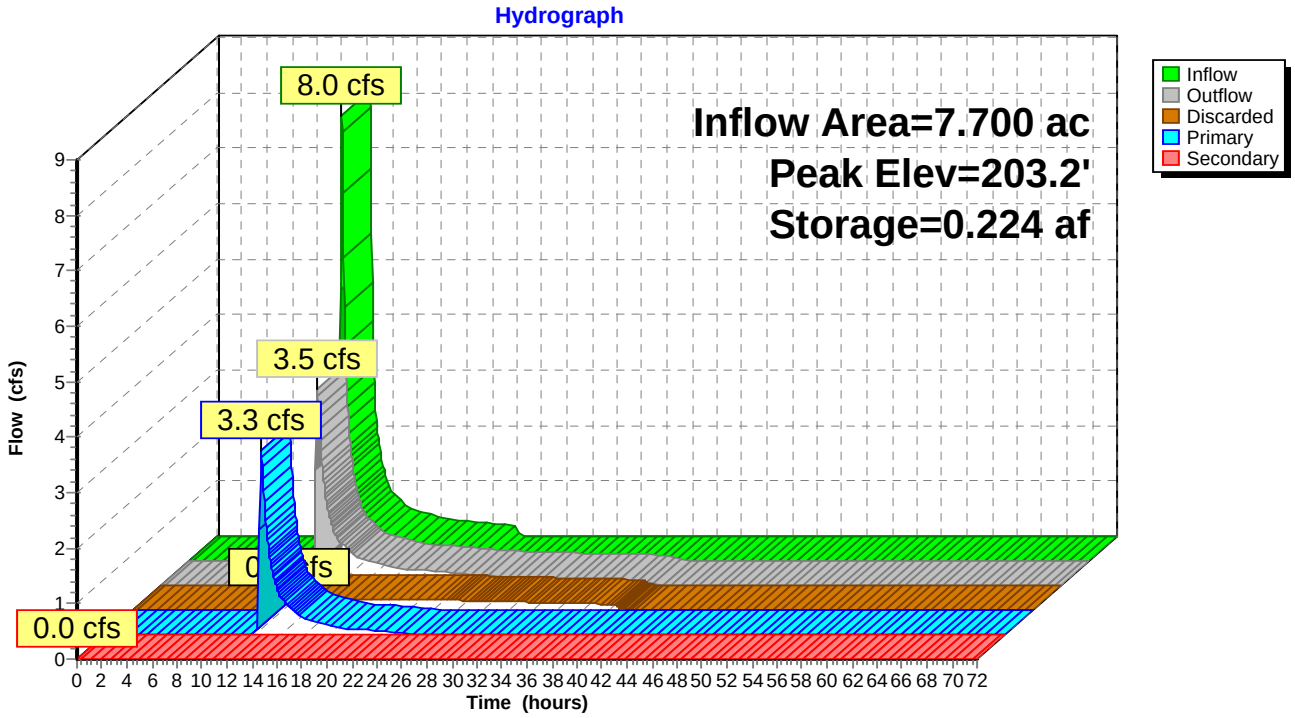
Device	Routing	Invert	Outlet Devices
#1	Device 4	206.0'	**24.0" x 36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Discarded	200.0'	**2.000 in/hr Exfiltration over Wetted area** Conductivity to Groundwater Elevation = 180.0'
#3	Secondary	206.5'	**15.0' long x 6.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8 2.0 2.5 3.0 3.5 4.0 4.5 5.0 5.5 Coef. (English) 2.37 2.51 2.70 2.68 2.68 2.67 2.65 2.65 2.65 2.65 2.66 2.66 2.67 2.69 2.72 2.76 2.83
#4	Primary	200.0'	**24.0" Round Culvert** L= 160.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 200.0' / 199.0' S= 0.0063 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf
#5	Device 4	202.6'	**15.0" Vert. Orifice/Grate X 2.00** C= 0.600
#6	Device 4	204.5'	**30.0" W x 9.0" H Vert. Orifice/Grate X 2.00** C= 0.600

Discarded OutFlow Max=0.2 cfs @ 12.49 hrs HW=203.2' (Free Discharge)
└**2=Exfiltration** (Controls 0.2 cfs)

Primary OutFlow Max=3.3 cfs @ 12.49 hrs HW=203.2' (Free Discharge)
└**4=Culvert** (Passes 3.3 cfs of 20.1 cfs potential flow)
  └**1=Orifice/Grate** (Controls 0.0 cfs)
  └**5=Orifice/Grate** (Orifice Controls 3.3 cfs @ 2.69 fps)
  └**6=Orifice/Grate** (Controls 0.0 cfs)

Secondary OutFlow Max=0.0 cfs @ 0.00 hrs HW=200.0' (Free Discharge)
└**3=Broad-Crested Rectangular Weir** (Controls 0.0 cfs)

Pond 1P: Basin 1



Stage-Area-Storage for Pond 1P: Basin 1

Elevation (feet)	Surface (acres)	Wetted (acres)	Storage (acre-feet)
200.0	0.050	0.050	0.000
200.1	0.051	0.051	0.005
200.2	0.052	0.052	0.010
200.3	0.053	0.054	0.016
200.4	0.055	0.055	0.021
200.5	0.056	0.056	0.026
200.6	0.057	0.057	0.032
200.7	0.058	0.059	0.038
200.8	0.059	0.060	0.044
200.9	0.061	0.061	0.050
201.0	0.062	0.062	0.056
201.1	0.063	0.064	0.062
201.2	0.064	0.065	0.069
201.3	0.065	0.066	0.075
201.4	0.067	0.068	0.082
201.5	0.068	0.069	0.088
201.6	0.069	0.071	0.095
201.7	0.070	0.072	0.102
201.8	0.072	0.073	0.109
201.9	0.073	0.075	0.116
202.0	0.074	0.076	0.124
202.1	0.075	0.078	0.131
202.2	0.077	0.079	0.139
202.3	0.078	0.080	0.147
202.4	0.079	0.082	0.154
202.5	0.080	0.083	0.162
202.6	0.082	0.084	0.170
202.7	0.083	0.086	0.179
202.8	0.084	0.087	0.187
202.9	0.086	0.088	0.196
203.0	0.087	0.090	0.204
203.1	0.088	0.091	0.213
203.2	0.090	0.093	0.222
203.3	0.091	0.094	0.231
203.4	0.092	0.096	0.240
203.5	0.093	0.097	0.249
203.6	0.095	0.099	0.259
203.7	0.096	0.100	0.268
203.8	0.097	0.102	0.278
203.9	0.099	0.103	0.288
204.0	0.100	0.105	0.298
204.1	0.101	0.106	0.308
204.2	0.103	0.108	0.318
204.3	0.104	0.109	0.328
204.4	0.105	0.111	0.339
204.5	0.107	0.112	0.349
204.6	0.108	0.114	0.360
204.7	0.110	0.115	0.371
204.8	0.111	0.117	0.382
204.9	0.113	0.118	0.393
205.0	0.114	0.120	0.405
205.1	0.115	0.121	0.416
205.2	0.117	0.123	0.428
205.3	0.118	0.125	0.439
205.4	0.120	0.126	0.451
205.5	0.121	0.128	0.463
205.6	0.122	0.130	0.475
205.7	0.124	0.131	0.488
205.8	0.125	0.133	0.500
205.9	0.127	0.135	0.513
206.0	0.128	0.136	0.525
206.1	0.129	0.138	0.538
206.2	0.131	0.140	0.551
206.3	0.132	0.141	0.565
206.4	0.134	0.143	0.578
206.5	0.135	0.144	0.591
206.6	0.137	0.146	0.605
206.7	0.138	0.148	0.619
206.8	0.140	0.149	0.633
206.9	0.141	0.151	0.647
207.0	0.143	0.152	0.661
207.1	0.146	0.156	0.675
207.2	0.149	0.159	0.690
207.3	0.152	0.162	0.705
207.4	0.155	0.166	0.720
207.5	**0.158**	**0.169**	**0.736**

Summary for Pond 2P: Basin 2

Inflow Area = 1.060 ac, 66.04% Impervious, Inflow Depth = 2.29" for 2 Year event
Inflow = 2.2 cfs @ 12.21 hrs, Volume= 0.202 af
Outflow = 1.1 cfs @ 12.41 hrs, Volume= 0.202 af, Atten= 49%, Lag= 12.0 min
Discarded = 0.2 cfs @ 12.41 hrs, Volume= 0.129 af
Primary = 0.9 cfs @ 12.41 hrs, Volume= 0.073 af
Secondary = 0.0 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 201.6' @ 12.41 hrs Surf.Area= 0.034 ac Storage= 0.059 af

Plug-Flow detention time= 99.4 min calculated for 0.202 af (100% of inflow)
Center-of-Mass det. time= 99.5 min (924.9 - 825.4)

Volume	Invert	Avail.Storage	Storage Description
#1	199.0'	0.211 af	**Custom Stage Data (Irregular)** Listed below (Recalc)

Elevation (feet)	Surf.Area (acres)	Perim. (feet)	Inc.Store (acre-feet)	Cum.Store (acre-feet)	Wet.Area (acres)
199.0	0.013	118.0	0.000	0.000	0.013
200.0	0.020	160.0	0.016	0.016	0.035
201.0	0.028	200.8	0.024	0.040	0.062
202.0	0.038	242.0	0.033	0.073	0.095
203.0	0.050	283.0	0.044	0.117	0.135
204.0	0.064	310.0	0.057	0.174	0.165
204.5	0.086	329.0	0.037	0.211	0.188

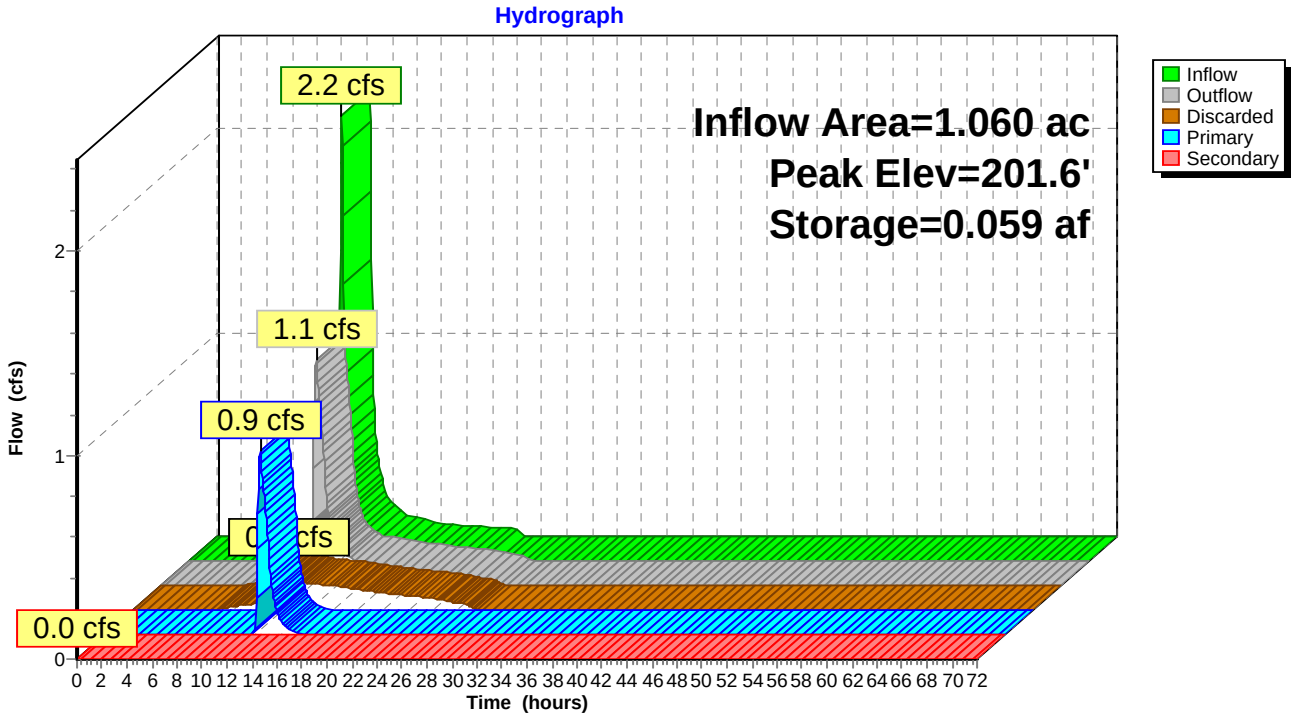
Device	Routing	Invert	Outlet Devices
#1	Device 4	203.0'	**24.0" x 36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Discarded	199.0'	**2.000 in/hr Exfiltration over Wetted area** Conductivity to Groundwater Elevation = 194.0'
#3	Secondary	204.0'	**15.0' long x 6.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8 2.0 2.5 3.0 3.5 4.0 4.5 5.0 5.5 Coef. (English) 2.37 2.51 2.70 2.68 2.68 2.67 2.65 2.65 2.65 2.65 2.66 2.66 2.67 2.69 2.72 2.76 2.83
#4	Primary	199.9'	**12.0" Round Culvert** L= 8.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 199.9' / 199.1' S= 0.1000 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf
#5	Device 4	200.6'	**6.0" Vert. Orifice/Grate** C= 0.600
#6	Primary	201.5'	**6.0" Vert. Orifice/Grate X 2.00** C= 0.600

Discarded OutFlow Max=0.2 cfs @ 12.41 hrs HW=201.6' (Free Discharge)
└**2=Exfiltration** (Controls 0.2 cfs)

Primary OutFlow Max=0.9 cfs @ 12.41 hrs HW=201.6' (Free Discharge)
└**4=Culvert** (Passes 0.8 cfs of 4.2 cfs potential flow)
└**1=Orifice/Grate** (Controls 0.0 cfs)
└**5=Orifice/Grate** (Orifice Controls 0.8 cfs @ 4.20 fps)
└**6=Orifice/Grate** (Orifice Controls 0.1 cfs @ 1.13 fps)

Secondary OutFlow Max=0.0 cfs @ 0.00 hrs HW=199.0' (Free Discharge)
└**3=Broad-Crested Rectangular Weir** (Controls 0.0 cfs)

Pond 2P: Basin 2



Stage-Area-Storage for Pond 2P: Basin 2

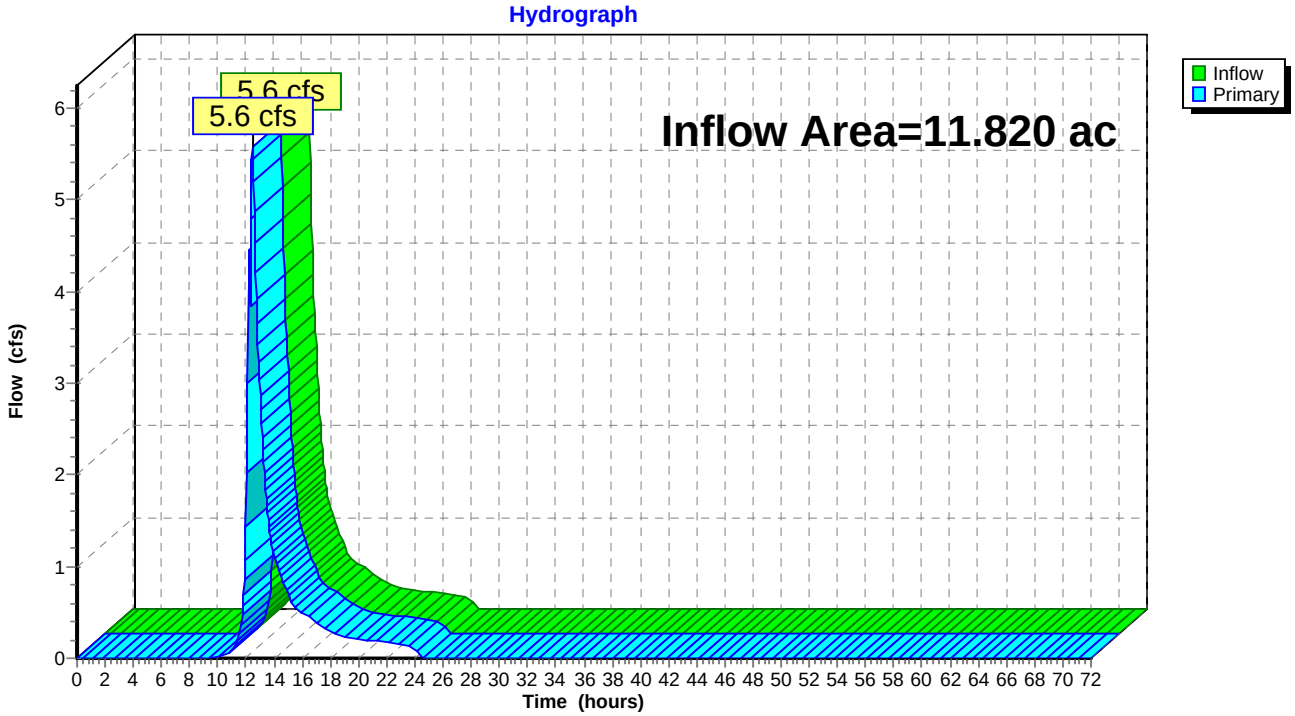
Elevation (feet)	Surface (acres)	Wetted (acres)	Storage (acre-feet)
199.0	0.013	0.013	0.000
199.1	0.014	0.015	0.001
199.2	0.014	0.017	0.003
199.3	0.015	0.019	0.004
199.4	0.016	0.021	0.006
199.5	0.016	0.023	0.007
199.6	0.017	0.025	0.009
199.7	0.018	0.027	0.011
199.8	0.018	0.030	0.013
199.9	0.019	0.032	0.014
200.0	0.020	0.035	0.016
200.1	0.021	0.037	0.018
200.2	0.021	0.040	0.021
200.3	0.022	0.042	0.023
200.4	0.023	0.045	0.025
200.5	0.024	0.047	0.027
200.6	0.025	0.050	0.030
200.7	0.025	0.053	0.032
200.8	0.026	0.056	0.035
200.9	0.027	0.059	0.038
201.0	0.028	0.062	0.040
201.1	0.029	0.065	0.043
201.2	0.030	0.068	0.046
201.3	0.031	0.071	0.049
201.4	0.032	0.075	0.052
201.5	0.033	0.078	0.055
201.6	0.034	0.081	0.059
201.7	0.035	0.085	0.062
201.8	0.036	0.088	0.066
201.9	0.037	0.092	0.069
202.0	0.038	0.095	0.073
202.1	0.039	0.099	0.077
202.2	0.040	0.103	0.081
202.3	0.041	0.107	0.085
202.4	0.043	0.111	0.089
202.5	0.044	0.115	0.094
202.6	0.045	0.119	0.098
202.7	0.046	0.123	0.103
202.8	0.047	0.127	0.107
202.9	0.049	0.131	0.112
203.0	0.050	0.135	0.117
203.1	0.051	0.138	0.122
203.2	0.053	0.141	0.127
203.3	0.054	0.144	0.133
203.4	0.055	0.147	0.138
203.5	0.057	0.150	0.144
203.6	0.058	0.153	0.149
203.7	0.060	0.156	0.155
203.8	0.061	0.159	0.161
203.9	0.063	0.162	0.168
204.0	0.064	0.165	0.174
204.1	0.068	0.170	0.180
204.2	0.072	0.174	0.187
204.3	0.077	0.179	0.195
204.4	0.081	0.183	0.203
204.5	**0.086**	**0.188**	**0.211**

Summary for Link 1L: To Off Site (North)

Inflow Area = 11.820 ac, 26.99% Impervious, Inflow Depth = 0.81" for 2 Year event
Inflow = 5.6 cfs @ 12.45 hrs, Volume= 0.797 af
Primary = 5.6 cfs @ 12.45 hrs, Volume= 0.797 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Link 1L: To Off Site (North)



Summary for Subcatchment PDA-1A: Proposed Drainage Area 1A

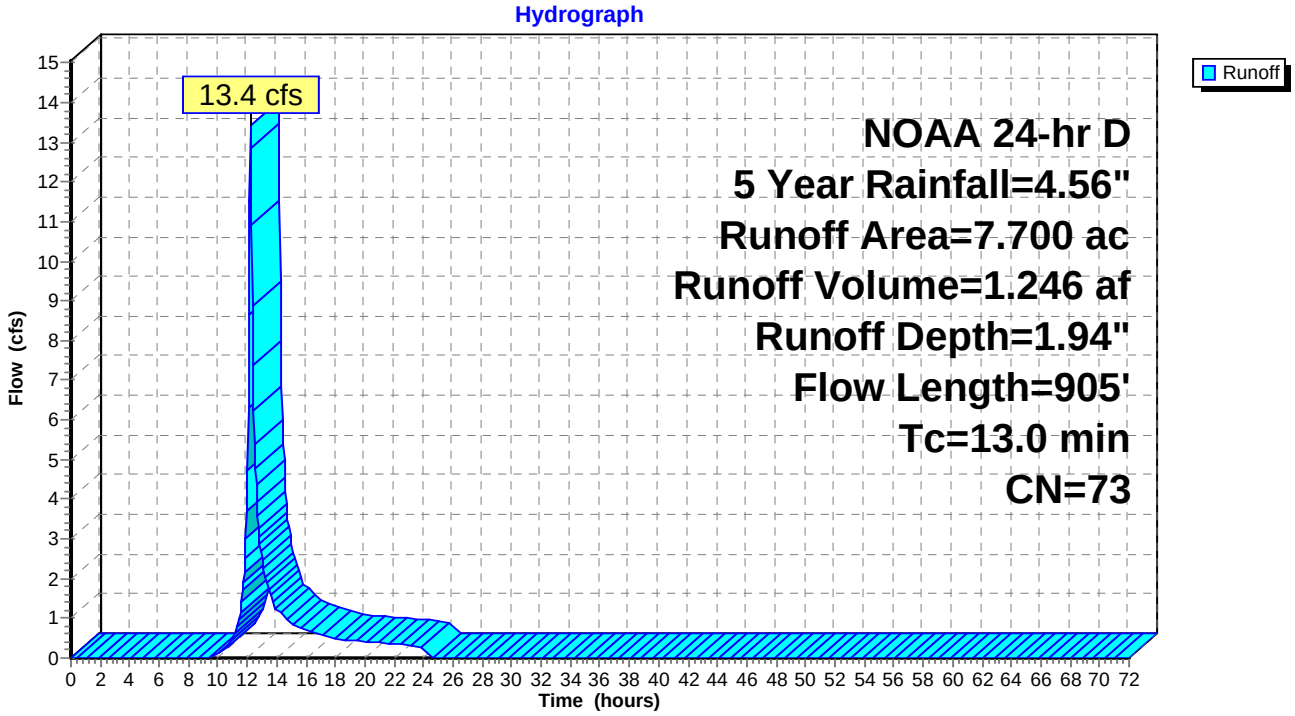
Runoff = 13.4 cfs @ 12.21 hrs, Volume= 1.246 af, Depth= 1.94"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr D 5 Year Rainfall=4.56"

Area (ac)	CN	Description
2.270	98	Paved parking, HSG D
0.720	61	>75% Grass cover, Good, HSG B
0.020	74	>75% Grass cover, Good, HSG C
0.520	80	>75% Grass cover, Good, HSG D
2.890	55	Woods, Good, HSG B
0.300	70	Woods, Good, HSG C
0.980	77	Woods, Good, HSG D
7.700	73	Weighted Average
5.430		70.52% Pervious Area
2.270		29.48% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.7	100	0.0180	0.17		**Sheet Flow,** Grass: Short n= 0.150 P2= 3.52"
0.8	187	0.0535	3.72		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
1.1	229	0.0437	3.37		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.7	121	0.0331	2.93		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.3	69	0.0667	4.16		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.1	69	0.0490	11.65	14.30	**Pipe Channel,** 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.013
0.2	70	0.0043	4.72	14.83	**Pipe Channel,** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.1	60	0.0100	7.20	22.62	**Pipe Channel,** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
13.0	905	Total			

Subcatchment PDA-1A: Proposed Drainage Area 1A



Summary for Subcatchment PDA-1B: Proposed Drainage Area 1B

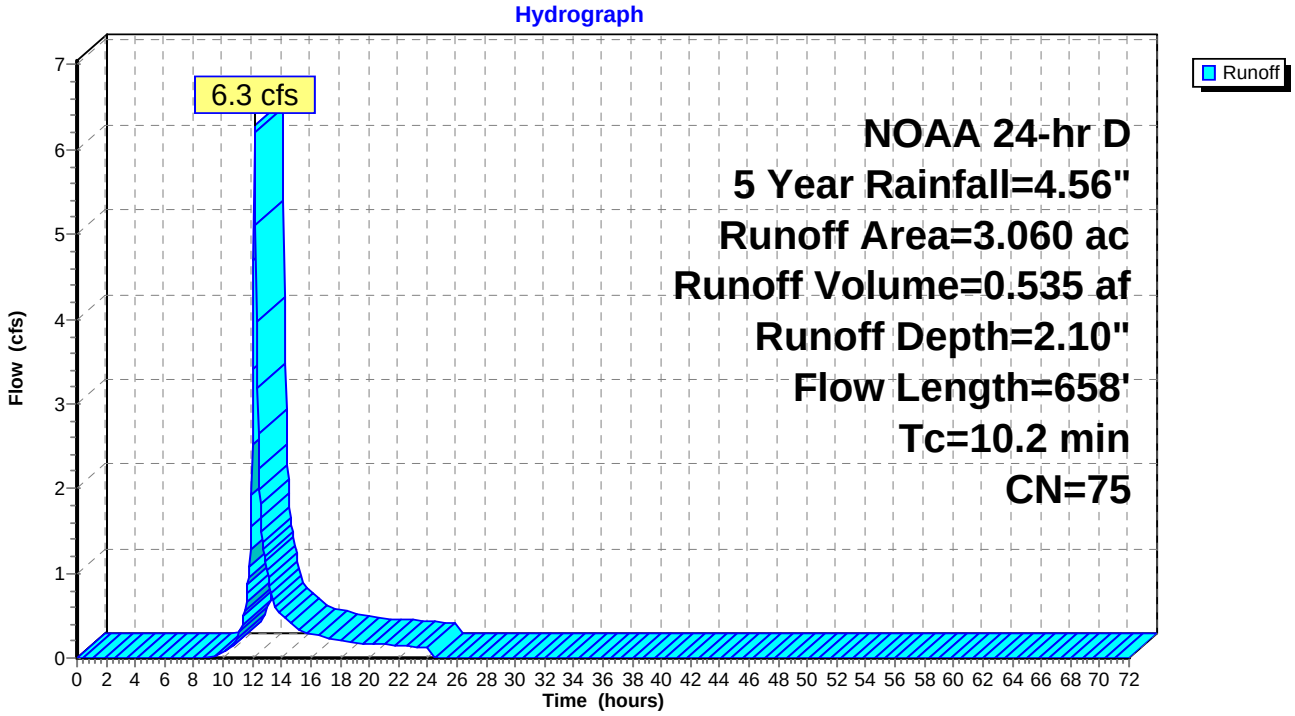
Runoff = 6.3 cfs @ 12.18 hrs, Volume= 0.535 af, Depth= 2.10"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr D 5 Year Rainfall=4.56"

Area (ac)	CN	Description
0.220	98	Paved parking, HSG D
0.160	61	>75% Grass cover, Good, HSG B
0.050	74	>75% Grass cover, Good, HSG C
0.870	80	>75% Grass cover, Good, HSG D
0.330	55	Woods, Good, HSG B
0.380	70	Woods, Good, HSG C
1.050	77	Woods, Good, HSG D
3.060	75	Weighted Average
2.840		92.81% Pervious Area
0.220		7.19% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.5	100	0.0500	0.26		**Sheet Flow,** Grass: Short n= 0.150 P2= 3.52"
1.4	324	0.0556	3.80		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.1	13	0.0154	2.00		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
2.2	221	0.0113	1.71		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
10.2	658	Total			

Subcatchment PDA-1B: Proposed Drainage Area 1B



Summary for Subcatchment PDA-1C: Proposed Drainage Area 1C

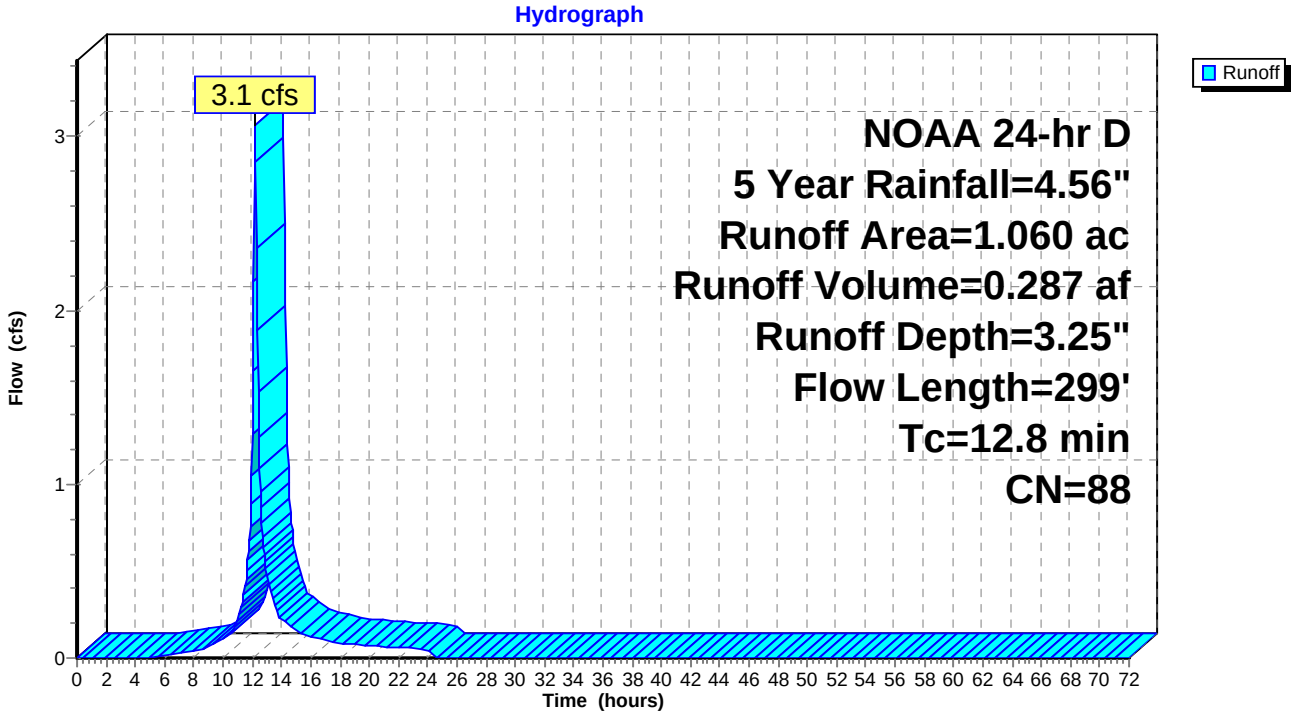
Runoff = 3.1 cfs @ 12.20 hrs, Volume= 0.287 af, Depth= 3.25"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr D 5 Year Rainfall=4.56"

Area (ac)	CN	Description
0.700	98	Paved parking, HSG B
0.190	61	>75% Grass cover, Good, HSG B
0.170	80	>75% Grass cover, Good, HSG D
1.060	88	Weighted Average
0.360		33.96% Pervious Area
0.700		66.04% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.5	100	0.0120	0.15		**Sheet Flow,** Grass: Short n= 0.150 P2= 3.52"
0.6	59	0.0120	1.76		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.6	120	0.0291	3.46		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
0.0	4	0.0250	11.39	35.77	**Pipe Channel,** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.1	16	0.0050	5.09	16.00	**Pipe Channel,** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
12.8	299	Total			

Subcatchment PDA-1C: Proposed Drainage Area 1C



Summary for Pond 1P: Basin 1

Inflow Area = 7.700 ac, 29.48% Impervious, Inflow Depth = 1.94" for 5 Year event
Inflow = 13.4 cfs @ 12.21 hrs, Volume= 1.246 af
Outflow = 9.7 cfs @ 12.33 hrs, Volume= 1.246 af, Atten= 28%, Lag= 7.2 min
Discarded = 0.2 cfs @ 12.33 hrs, Volume= 0.395 af
Primary = 9.4 cfs @ 12.33 hrs, Volume= 0.851 af
Secondary = 0.0 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 203.9' @ 12.33 hrs Surf.Area= 0.098 ac Storage= 0.283 af

Plug-Flow detention time= 172.1 min calculated for 1.245 af (100% of inflow)
Center-of-Mass det. time= 172.7 min (1,035.2 - 862.6)

Volume	Invert	Avail.Storage	Storage Description
#1	200.0'	0.736 af	**Custom Stage Data (Irregular)** Listed below (Recalc)

Elevation (feet)	Surf.Area (acres)	Perim. (feet)	Inc.Store (acre-feet)	Cum.Store (acre-feet)	Wet.Area (acres)
200.0	0.050	244.0	0.000	0.000	0.050
201.0	0.062	256.0	0.056	0.056	0.062
202.0	0.074	269.0	0.068	0.124	0.076
203.0	0.087	281.0	0.080	0.204	0.090
204.0	0.100	294.0	0.093	0.298	0.105
205.0	0.114	306.0	0.107	0.405	0.120
206.0	0.128	319.0	0.121	0.525	0.136
207.0	0.143	331.0	0.135	0.661	0.152
207.5	0.158	344.0	0.075	0.736	0.169

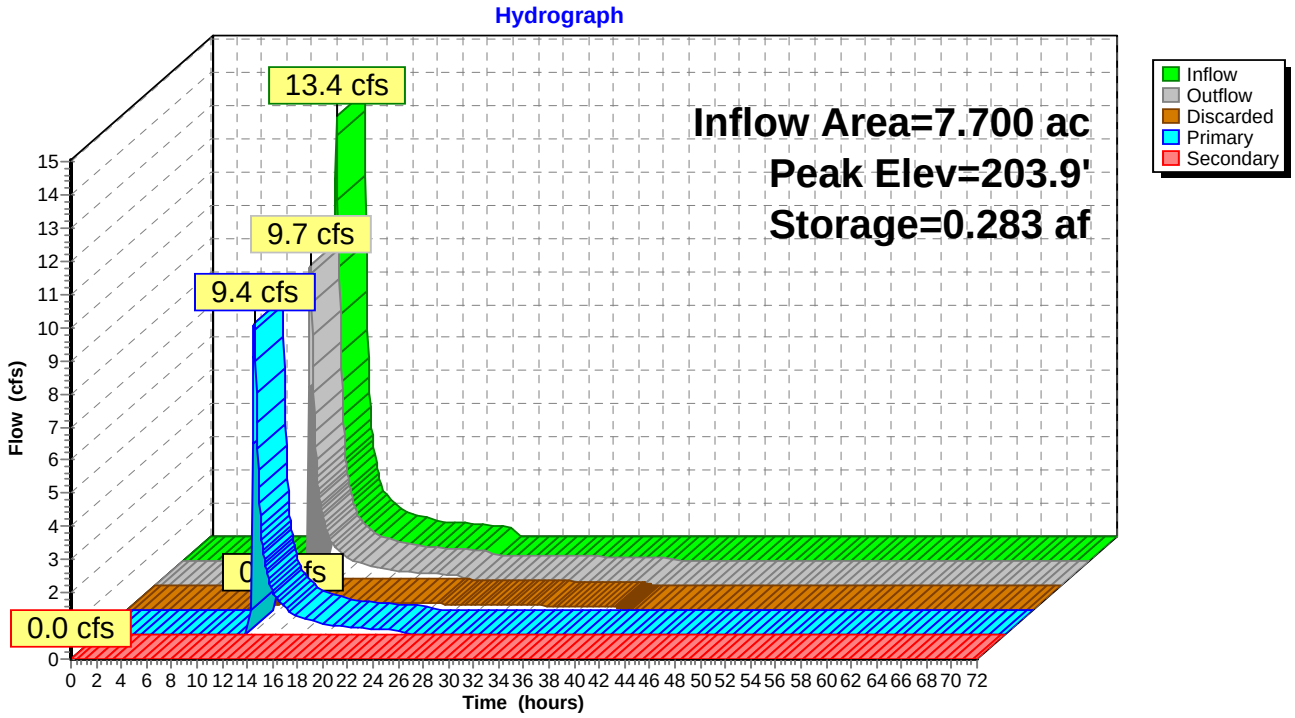
Device	Routing	Invert	Outlet Devices
#1	Device 4	206.0'	**24.0" x 36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Discarded	200.0'	**2.000 in/hr Exfiltration over Wetted area** Conductivity to Groundwater Elevation = 180.0'
#3	Secondary	206.5'	**15.0' long x 6.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8 2.0 2.5 3.0 3.5 4.0 4.5 5.0 5.5 Coef. (English) 2.37 2.51 2.70 2.68 2.68 2.67 2.65 2.65 2.65 2.65 2.66 2.66 2.67 2.69 2.72 2.76 2.83
#4	Primary	200.0'	**24.0" Round Culvert** L= 160.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 200.0' / 199.0' S= 0.0063 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf
#5	Device 4	202.6'	**15.0" Vert. Orifice/Grate X 2.00** C= 0.600
#6	Device 4	204.5'	**30.0" W x 9.0" H Vert. Orifice/Grate X 2.00** C= 0.600

Discarded OutFlow Max=0.2 cfs @ 12.33 hrs HW=203.8' (Free Discharge)
└**2=Exfiltration** (Controls 0.2 cfs)

Primary OutFlow Max=9.3 cfs @ 12.33 hrs HW=203.8' (Free Discharge)
└**4=Culvert** (Passes 9.3 cfs of 22.8 cfs potential flow)
  └**1=Orifice/Grate** (Controls 0.0 cfs)
  └**5=Orifice/Grate** (Orifice Controls 9.3 cfs @ 3.80 fps)
  └**6=Orifice/Grate** (Controls 0.0 cfs)

Secondary OutFlow Max=0.0 cfs @ 0.00 hrs HW=200.0' (Free Discharge)
└**3=Broad-Crested Rectangular Weir** (Controls 0.0 cfs)

Pond 1P: Basin 1



Stage-Area-Storage for Pond 1P: Basin 1

Elevation (feet)	Surface (acres)	Wetted (acres)	Storage (acre-feet)
200.0	0.050	0.050	0.000
200.1	0.051	0.051	0.005
200.2	0.052	0.052	0.010
200.3	0.053	0.054	0.016
200.4	0.055	0.055	0.021
200.5	0.056	0.056	0.026
200.6	0.057	0.057	0.032
200.7	0.058	0.059	0.038
200.8	0.059	0.060	0.044
200.9	0.061	0.061	0.050
201.0	0.062	0.062	0.056
201.1	0.063	0.064	0.062
201.2	0.064	0.065	0.069
201.3	0.065	0.066	0.075
201.4	0.067	0.068	0.082
201.5	0.068	0.069	0.088
201.6	0.069	0.071	0.095
201.7	0.070	0.072	0.102
201.8	0.072	0.073	0.109
201.9	0.073	0.075	0.116
202.0	0.074	0.076	0.124
202.1	0.075	0.078	0.131
202.2	0.077	0.079	0.139
202.3	0.078	0.080	0.147
202.4	0.079	0.082	0.154
202.5	0.080	0.083	0.162
202.6	0.082	0.084	0.170
202.7	0.083	0.086	0.179
202.8	0.084	0.087	0.187
202.9	0.086	0.088	0.196
203.0	0.087	0.090	0.204
203.1	0.088	0.091	0.213
203.2	0.090	0.093	0.222
203.3	0.091	0.094	0.231
203.4	0.092	0.096	0.240
203.5	0.093	0.097	0.249
203.6	0.095	0.099	0.259
203.7	0.096	0.100	0.268
203.8	0.097	0.102	0.278
203.9	0.099	0.103	0.288
204.0	0.100	0.105	0.298
204.1	0.101	0.106	0.308
204.2	0.103	0.108	0.318
204.3	0.104	0.109	0.328
204.4	0.105	0.111	0.339
204.5	0.107	0.112	0.349
204.6	0.108	0.114	0.360
204.7	0.110	0.115	0.371
204.8	0.111	0.117	0.382
204.9	0.113	0.118	0.393
205.0	0.114	0.120	0.405
205.1	0.115	0.121	0.416
205.2	0.117	0.123	0.428
205.3	0.118	0.125	0.439
205.4	0.120	0.126	0.451
205.5	0.121	0.128	0.463
205.6	0.122	0.130	0.475
205.7	0.124	0.131	0.488
205.8	0.125	0.133	0.500
205.9	0.127	0.135	0.513
206.0	0.128	0.136	0.525
206.1	0.129	0.138	0.538
206.2	0.131	0.140	0.551
206.3	0.132	0.141	0.565
206.4	0.134	0.143	0.578
206.5	0.135	0.144	0.591
206.6	0.137	0.146	0.605
206.7	0.138	0.148	0.619
206.8	0.140	0.149	0.633
206.9	0.141	0.151	0.647
207.0	0.143	0.152	0.661
207.1	0.146	0.156	0.675
207.2	0.149	0.159	0.690
207.3	0.152	0.162	0.705
207.4	0.155	0.166	0.720
207.5	**0.158**	**0.169**	**0.736**

Summary for Pond 2P: Basin 2

Inflow Area = 1.060 ac, 66.04% Impervious, Inflow Depth = 3.25" for 5 Year event
Inflow = 3.1 cfs @ 12.20 hrs, Volume= 0.287 af
Outflow = 2.1 cfs @ 12.33 hrs, Volume= 0.287 af, Atten= 31%, Lag= 7.4 min
Discarded = 0.2 cfs @ 12.33 hrs, Volume= 0.155 af
Primary = 1.9 cfs @ 12.33 hrs, Volume= 0.132 af
Secondary = 0.0 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 202.0' @ 12.33 hrs Surf.Area= 0.038 ac Storage= 0.072 af

Plug-Flow detention time= 87.7 min calculated for 0.287 af (100% of inflow)
Center-of-Mass det. time= 87.8 min (902.1 - 814.3)

Volume	Invert	Avail.Storage	Storage Description
#1	199.0'	0.211 af	**Custom Stage Data (Irregular)** Listed below (Recalc)

Elevation (feet)	Surf.Area (acres)	Perim. (feet)	Inc.Store (acre-feet)	Cum.Store (acre-feet)	Wet.Area (acres)
199.0	0.013	118.0	0.000	0.000	0.013
200.0	0.020	160.0	0.016	0.016	0.035
201.0	0.028	200.8	0.024	0.040	0.062
202.0	0.038	242.0	0.033	0.073	0.095
203.0	0.050	283.0	0.044	0.117	0.135
204.0	0.064	310.0	0.057	0.174	0.165
204.5	0.086	329.0	0.037	0.211	0.188

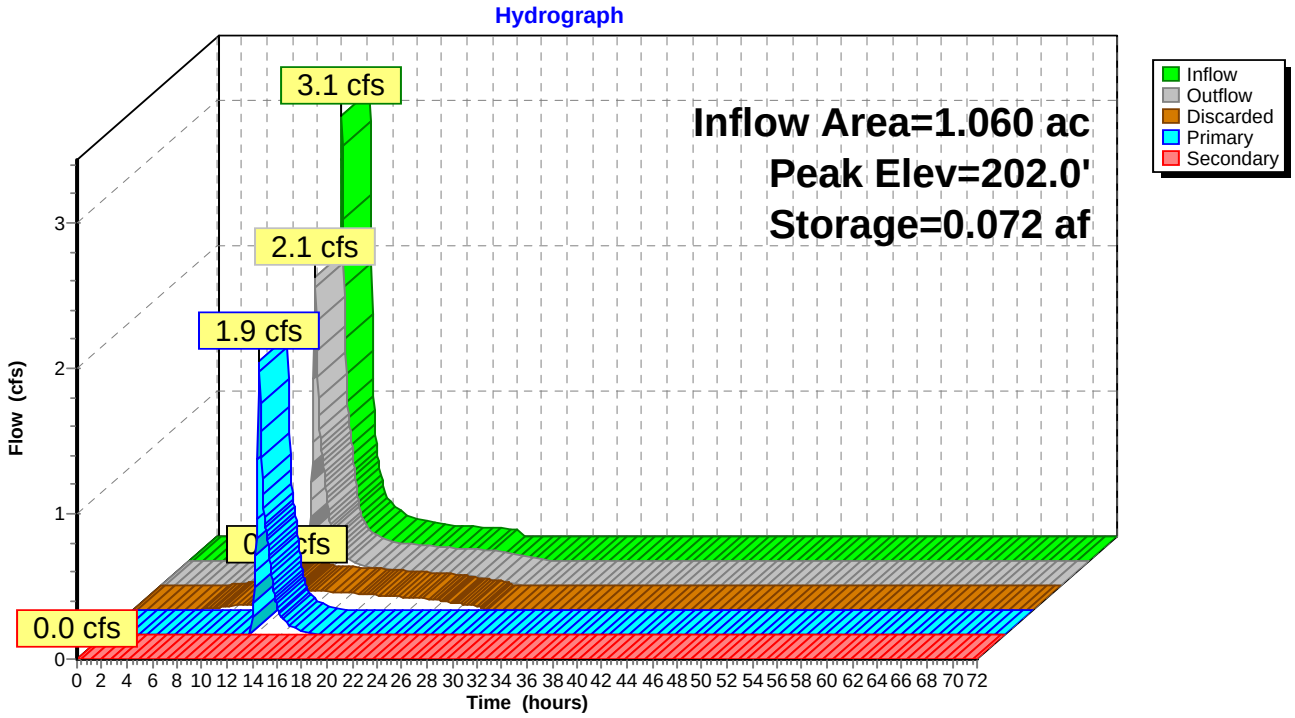
Device	Routing	Invert	Outlet Devices
#1	Device 4	203.0'	**24.0" x 36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Discarded	199.0'	**2.000 in/hr Exfiltration over Wetted area** Conductivity to Groundwater Elevation = 194.0'
#3	Secondary	204.0'	**15.0' long x 6.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8 2.0 2.5 3.0 3.5 4.0 4.5 5.0 5.5 Coef. (English) 2.37 2.51 2.70 2.68 2.68 2.67 2.65 2.65 2.65 2.65 2.66 2.66 2.67 2.69 2.72 2.76 2.83
#4	Primary	199.9'	**12.0" Round Culvert** L= 8.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 199.9' / 199.1' S= 0.1000 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf
#5	Device 4	200.6'	**6.0" Vert. Orifice/Grate** C= 0.600
#6	Primary	201.5'	**6.0" Vert. Orifice/Grate X 2.00** C= 0.600

Discarded OutFlow Max=0.2 cfs @ 12.33 hrs HW=202.0' (Free Discharge)
└**2=Exfiltration** (Controls 0.2 cfs)

Primary OutFlow Max=1.9 cfs @ 12.33 hrs HW=202.0' (Free Discharge)
└**4=Culvert** (Passes 1.0 cfs of 4.7 cfs potential flow)
└**1=Orifice/Grate** (Controls 0.0 cfs)
└**5=Orifice/Grate** (Orifice Controls 1.0 cfs @ 5.07 fps)
└**6=Orifice/Grate** (Orifice Controls 0.9 cfs @ 2.31 fps)

Secondary OutFlow Max=0.0 cfs @ 0.00 hrs HW=199.0' (Free Discharge)
└**3=Broad-Crested Rectangular Weir** (Controls 0.0 cfs)

Pond 2P: Basin 2



Stage-Area-Storage for Pond 2P: Basin 2

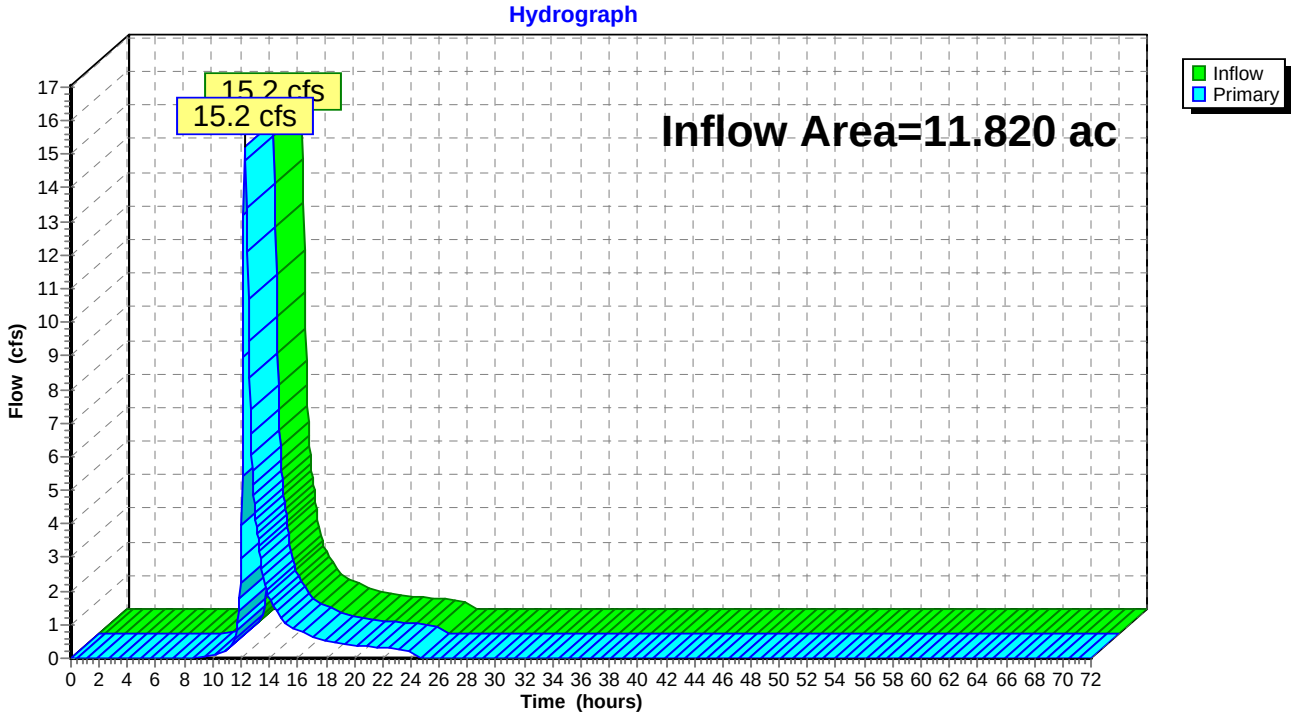
Elevation (feet)	Surface (acres)	Wetted (acres)	Storage (acre-feet)
199.0	0.013	0.013	0.000
199.1	0.014	0.015	0.001
199.2	0.014	0.017	0.003
199.3	0.015	0.019	0.004
199.4	0.016	0.021	0.006
199.5	0.016	0.023	0.007
199.6	0.017	0.025	0.009
199.7	0.018	0.027	0.011
199.8	0.018	0.030	0.013
199.9	0.019	0.032	0.014
200.0	0.020	0.035	0.016
200.1	0.021	0.037	0.018
200.2	0.021	0.040	0.021
200.3	0.022	0.042	0.023
200.4	0.023	0.045	0.025
200.5	0.024	0.047	0.027
200.6	0.025	0.050	0.030
200.7	0.025	0.053	0.032
200.8	0.026	0.056	0.035
200.9	0.027	0.059	0.038
201.0	0.028	0.062	0.040
201.1	0.029	0.065	0.043
201.2	0.030	0.068	0.046
201.3	0.031	0.071	0.049
201.4	0.032	0.075	0.052
201.5	0.033	0.078	0.055
201.6	0.034	0.081	0.059
201.7	0.035	0.085	0.062
201.8	0.036	0.088	0.066
201.9	0.037	0.092	0.069
202.0	0.038	0.095	0.073
202.1	0.039	0.099	0.077
202.2	0.040	0.103	0.081
202.3	0.041	0.107	0.085
202.4	0.043	0.111	0.089
202.5	0.044	0.115	0.094
202.6	0.045	0.119	0.098
202.7	0.046	0.123	0.103
202.8	0.047	0.127	0.107
202.9	0.049	0.131	0.112
203.0	0.050	0.135	0.117
203.1	0.051	0.138	0.122
203.2	0.053	0.141	0.127
203.3	0.054	0.144	0.133
203.4	0.055	0.147	0.138
203.5	0.057	0.150	0.144
203.6	0.058	0.153	0.149
203.7	0.060	0.156	0.155
203.8	0.061	0.159	0.161
203.9	0.063	0.162	0.168
204.0	0.064	0.165	0.174
204.1	0.068	0.170	0.180
204.2	0.072	0.174	0.187
204.3	0.077	0.179	0.195
204.4	0.081	0.183	0.203
204.5	**0.086**	**0.188**	**0.211**

Summary for Link 1L: To Off Site (North)

Inflow Area = 11.820 ac, 26.99% Impervious, Inflow Depth = 1.54" for 5 Year event
Inflow = 15.2 cfs @ 12.28 hrs, Volume= 1.518 af
Primary = 15.2 cfs @ 12.28 hrs, Volume= 1.518 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Link 1L: To Off Site (North)



Summary for Subcatchment PDA-1A: Proposed Drainage Area 1A

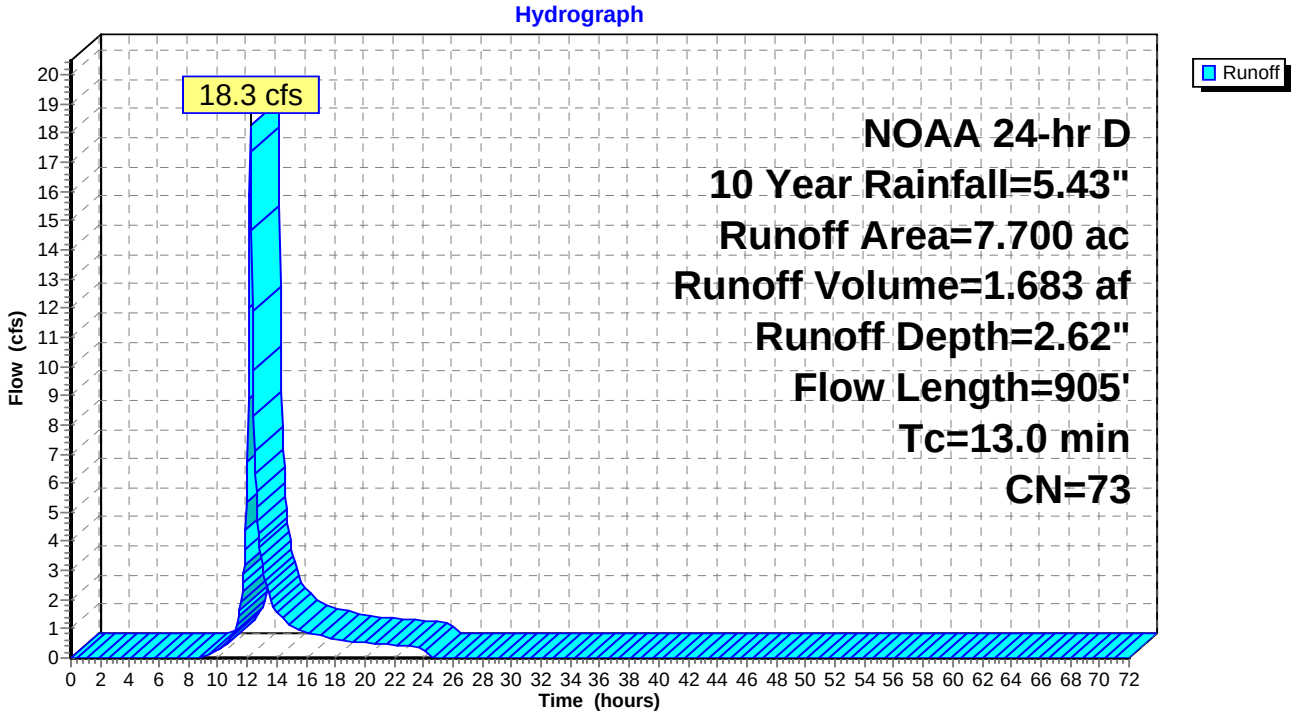
Runoff = 18.3 cfs @ 12.21 hrs, Volume= 1.683 af, Depth= 2.62"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr D 10 Year Rainfall=5.43"

Area (ac)	CN	Description
2.270	98	Paved parking, HSG D
0.720	61	>75% Grass cover, Good, HSG B
0.020	74	>75% Grass cover, Good, HSG C
0.520	80	>75% Grass cover, Good, HSG D
2.890	55	Woods, Good, HSG B
0.300	70	Woods, Good, HSG C
0.980	77	Woods, Good, HSG D
7.700	73	Weighted Average
5.430		70.52% Pervious Area
2.270		29.48% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.7	100	0.0180	0.17		**Sheet Flow,** Grass: Short n= 0.150 P2= 3.52"
0.8	187	0.0535	3.72		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
1.1	229	0.0437	3.37		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.7	121	0.0331	2.93		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.3	69	0.0667	4.16		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.1	69	0.0490	11.65	14.30	**Pipe Channel,** 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.013
0.2	70	0.0043	4.72	14.83	**Pipe Channel,** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.1	60	0.0100	7.20	22.62	**Pipe Channel,** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
13.0	905	Total			

Subcatchment PDA-1A: Proposed Drainage Area 1A



Summary for Subcatchment PDA-1B: Proposed Drainage Area 1B

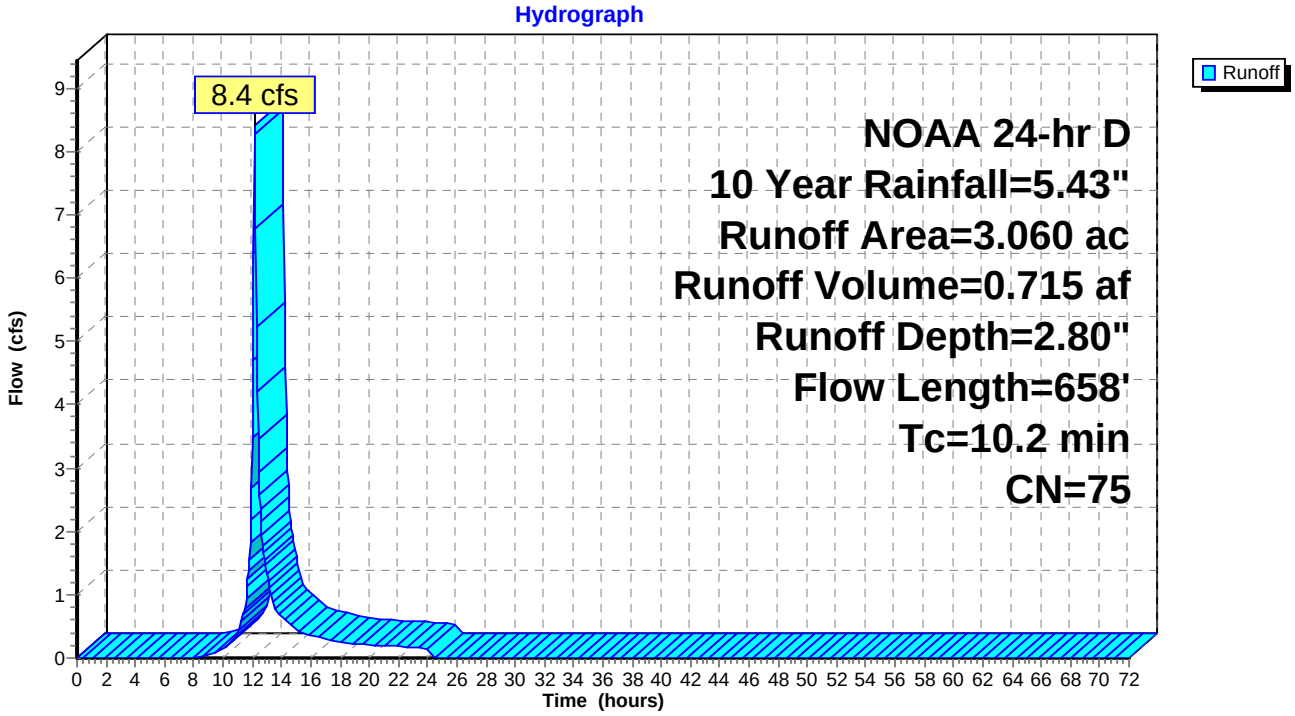
Runoff = 8.4 cfs @ 12.18 hrs, Volume= 0.715 af, Depth= 2.80"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr D 10 Year Rainfall=5.43"

Area (ac)	CN	Description
0.220	98	Paved parking, HSG D
0.160	61	>75% Grass cover, Good, HSG B
0.050	74	>75% Grass cover, Good, HSG C
0.870	80	>75% Grass cover, Good, HSG D
0.330	55	Woods, Good, HSG B
0.380	70	Woods, Good, HSG C
1.050	77	Woods, Good, HSG D
3.060	75	Weighted Average
2.840		92.81% Pervious Area
0.220		7.19% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.5	100	0.0500	0.26		**Sheet Flow,** Grass: Short n= 0.150 P2= 3.52"
1.4	324	0.0556	3.80		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.1	13	0.0154	2.00		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
2.2	221	0.0113	1.71		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
10.2	658	Total			

Subcatchment PDA-1B: Proposed Drainage Area 1B



Summary for Subcatchment PDA-1C: Proposed Drainage Area 1C

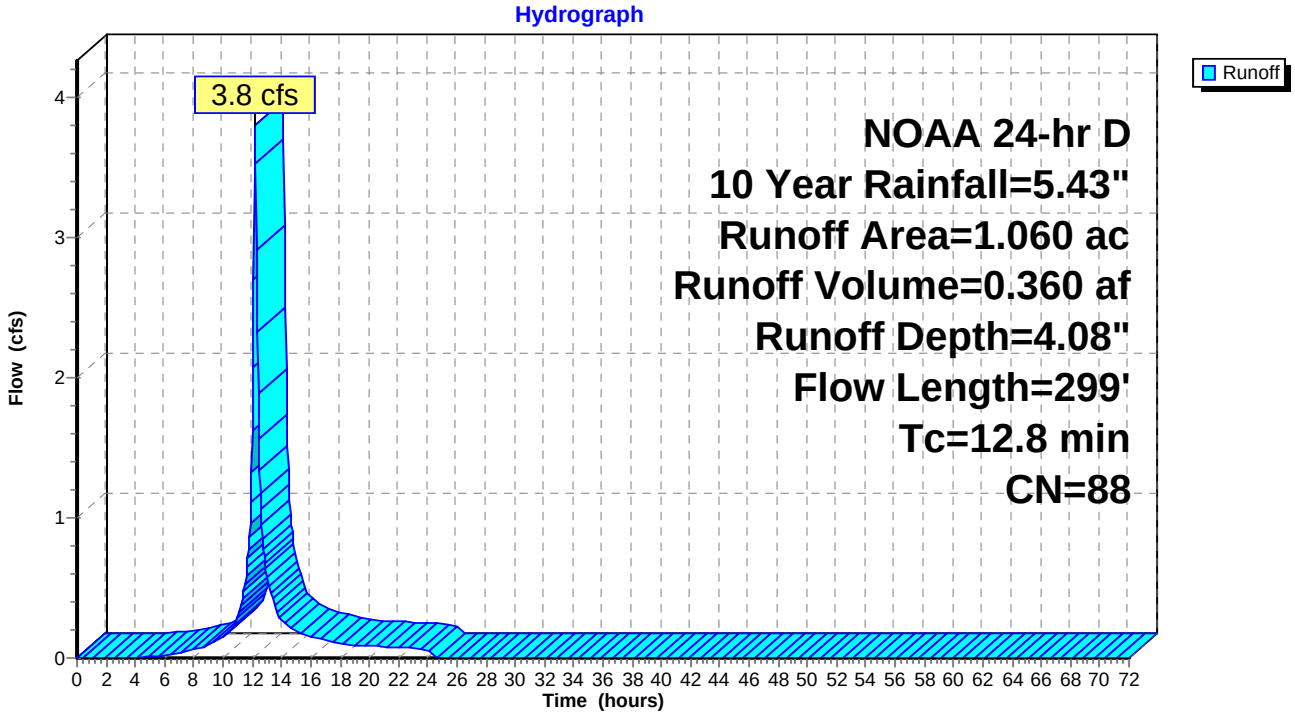
Runoff = 3.8 cfs @ 12.20 hrs, Volume= 0.360 af, Depth= 4.08"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr D 10 Year Rainfall=5.43"

Area (ac)	CN	Description
0.700	98	Paved parking, HSG B
0.190	61	>75% Grass cover, Good, HSG B
0.170	80	>75% Grass cover, Good, HSG D
1.060	88	Weighted Average
0.360		33.96% Pervious Area
0.700		66.04% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.5	100	0.0120	0.15		**Sheet Flow,** Grass: Short n= 0.150 P2= 3.52"
0.6	59	0.0120	1.76		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.6	120	0.0291	3.46		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
0.0	4	0.0250	11.39	35.77	**Pipe Channel,** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.1	16	0.0050	5.09	16.00	**Pipe Channel,** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
12.8	299	Total			

Subcatchment PDA-1C: Proposed Drainage Area 1C



Summary for Pond 1P: Basin 1

Inflow Area = 7.700 ac, 29.48% Impervious, Inflow Depth = 2.62" for 10 Year event
Inflow = 18.3 cfs @ 12.21 hrs, Volume= 1.683 af
Outflow = 13.3 cfs @ 12.33 hrs, Volume= 1.683 af, Atten= 27%, Lag= 6.9 min
Discarded = 0.3 cfs @ 12.33 hrs, Volume= 0.408 af
Primary = 13.0 cfs @ 12.33 hrs, Volume= 1.275 af
Secondary = 0.0 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 204.4' @ 12.33 hrs Surf.Area= 0.106 ac Storage= 0.343 af

Plug-Flow detention time= 132.8 min calculated for 1.682 af (100% of inflow)
Center-of-Mass det. time= 133.3 min (986.2 - 852.9)

Volume	Invert	Avail.Storage	Storage Description
#1	200.0'	0.736 af	**Custom Stage Data (Irregular)** Listed below (Recalc)

Elevation (feet)	Surf.Area (acres)	Perim. (feet)	Inc.Store (acre-feet)	Cum.Store (acre-feet)	Wet.Area (acres)
200.0	0.050	244.0	0.000	0.000	0.050
201.0	0.062	256.0	0.056	0.056	0.062
202.0	0.074	269.0	0.068	0.124	0.076
203.0	0.087	281.0	0.080	0.204	0.090
204.0	0.100	294.0	0.093	0.298	0.105
205.0	0.114	306.0	0.107	0.405	0.120
206.0	0.128	319.0	0.121	0.525	0.136
207.0	0.143	331.0	0.135	0.661	0.152
207.5	0.158	344.0	0.075	0.736	0.169

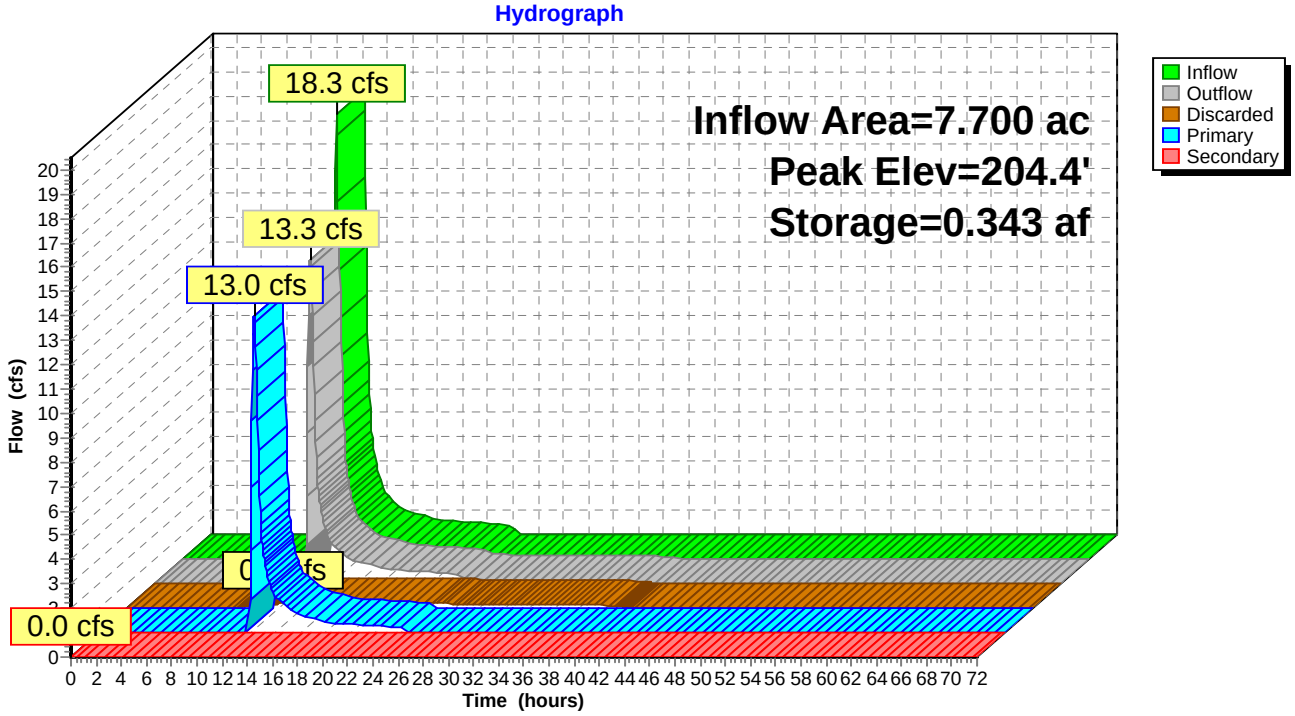
Device	Routing	Invert	Outlet Devices
#1	Device 4	206.0'	**24.0" x 36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Discarded	200.0'	**2.000 in/hr Exfiltration over Wetted area** Conductivity to Groundwater Elevation = 180.0'
#3	Secondary	206.5'	**15.0' long x 6.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8 2.0 2.5 3.0 3.5 4.0 4.5 5.0 5.5 Coef. (English) 2.37 2.51 2.70 2.68 2.68 2.67 2.65 2.65 2.65 2.65 2.66 2.66 2.67 2.69 2.72 2.76 2.83
#4	Primary	200.0'	**24.0" Round Culvert** L= 160.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 200.0' / 199.0' S= 0.0063 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf
#5	Device 4	202.6'	**15.0" Vert. Orifice/Grate X 2.00** C= 0.600
#6	Device 4	204.5'	**30.0" W x 9.0" H Vert. Orifice/Grate X 2.00** C= 0.600

Discarded OutFlow Max=0.3 cfs @ 12.33 hrs HW=204.4' (Free Discharge)
└**2=Exfiltration** (Controls 0.3 cfs)

Primary OutFlow Max=13.0 cfs @ 12.33 hrs HW=204.4' (Free Discharge)
└**4=Culvert** (Passes 13.0 cfs of 25.0 cfs potential flow)
  └**1=Orifice/Grate** (Controls 0.0 cfs)
  └**5=Orifice/Grate** (Orifice Controls 13.0 cfs @ 5.28 fps)
  └**6=Orifice/Grate** (Controls 0.0 cfs)

Secondary OutFlow Max=0.0 cfs @ 0.00 hrs HW=200.0' (Free Discharge)
└**3=Broad-Crested Rectangular Weir** (Controls 0.0 cfs)

Pond 1P: Basin 1



Stage-Area-Storage for Pond 1P: Basin 1

Elevation (feet)	Surface (acres)	Wetted (acres)	Storage (acre-feet)
200.0	0.050	0.050	0.000
200.1	0.051	0.051	0.005
200.2	0.052	0.052	0.010
200.3	0.053	0.054	0.016
200.4	0.055	0.055	0.021
200.5	0.056	0.056	0.026
200.6	0.057	0.057	0.032
200.7	0.058	0.059	0.038
200.8	0.059	0.060	0.044
200.9	0.061	0.061	0.050
201.0	0.062	0.062	0.056
201.1	0.063	0.064	0.062
201.2	0.064	0.065	0.069
201.3	0.065	0.066	0.075
201.4	0.067	0.068	0.082
201.5	0.068	0.069	0.088
201.6	0.069	0.071	0.095
201.7	0.070	0.072	0.102
201.8	0.072	0.073	0.109
201.9	0.073	0.075	0.116
202.0	0.074	0.076	0.124
202.1	0.075	0.078	0.131
202.2	0.077	0.079	0.139
202.3	0.078	0.080	0.147
202.4	0.079	0.082	0.154
202.5	0.080	0.083	0.162
202.6	0.082	0.084	0.170
202.7	0.083	0.086	0.179
202.8	0.084	0.087	0.187
202.9	0.086	0.088	0.196
203.0	0.087	0.090	0.204
203.1	0.088	0.091	0.213
203.2	0.090	0.093	0.222
203.3	0.091	0.094	0.231
203.4	0.092	0.096	0.240
203.5	0.093	0.097	0.249
203.6	0.095	0.099	0.259
203.7	0.096	0.100	0.268
203.8	0.097	0.102	0.278
203.9	0.099	0.103	0.288
204.0	0.100	0.105	0.298
204.1	0.101	0.106	0.308
204.2	0.103	0.108	0.318
204.3	0.104	0.109	0.328
204.4	0.105	0.111	0.339
204.5	0.107	0.112	0.349
204.6	0.108	0.114	0.360
204.7	0.110	0.115	0.371
204.8	0.111	0.117	0.382
204.9	0.113	0.118	0.393
205.0	0.114	0.120	0.405
205.1	0.115	0.121	0.416
205.2	0.117	0.123	0.428
205.3	0.118	0.125	0.439
205.4	0.120	0.126	0.451
205.5	0.121	0.128	0.463
205.6	0.122	0.130	0.475
205.7	0.124	0.131	0.488
205.8	0.125	0.133	0.500
205.9	0.127	0.135	0.513
206.0	0.128	0.136	0.525
206.1	0.129	0.138	0.538
206.2	0.131	0.140	0.551
206.3	0.132	0.141	0.565
206.4	0.134	0.143	0.578
206.5	0.135	0.144	0.591
206.6	0.137	0.146	0.605
206.7	0.138	0.148	0.619
206.8	0.140	0.149	0.633
206.9	0.141	0.151	0.647
207.0	0.143	0.152	0.661
207.1	0.146	0.156	0.675
207.2	0.149	0.159	0.690
207.3	0.152	0.162	0.705
207.4	0.155	0.166	0.720
207.5	**0.158**	**0.169**	**0.736**

Summary for Pond 2P: Basin 2

Inflow Area = 1.060 ac, 66.04% Impervious, Inflow Depth = 4.08" for 10 Year event
Inflow = 3.8 cfs @ 12.20 hrs, Volume= 0.360 af
Outflow = 2.7 cfs @ 12.32 hrs, Volume= 0.360 af, Atten= 30%, Lag= 7.2 min
Discarded = 0.3 cfs @ 12.32 hrs, Volume= 0.175 af
Primary = 2.4 cfs @ 12.32 hrs, Volume= 0.185 af
Secondary = 0.0 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 202.2' @ 12.32 hrs Surf.Area= 0.040 ac Storage= 0.081 af

Plug-Flow detention time= 80.9 min calculated for 0.360 af (100% of inflow)
Center-of-Mass det. time= 80.8 min (888.1 - 807.3)

Volume	Invert	Avail.Storage	Storage Description
#1	199.0'	0.211 af	**Custom Stage Data (Irregular)** Listed below (Recalc)

Elevation (feet)	Surf.Area (acres)	Perim. (feet)	Inc.Store (acre-feet)	Cum.Store (acre-feet)	Wet.Area (acres)
199.0	0.013	118.0	0.000	0.000	0.013
200.0	0.020	160.0	0.016	0.016	0.035
201.0	0.028	200.8	0.024	0.040	0.062
202.0	0.038	242.0	0.033	0.073	0.095
203.0	0.050	283.0	0.044	0.117	0.135
204.0	0.064	310.0	0.057	0.174	0.165
204.5	0.086	329.0	0.037	0.211	0.188

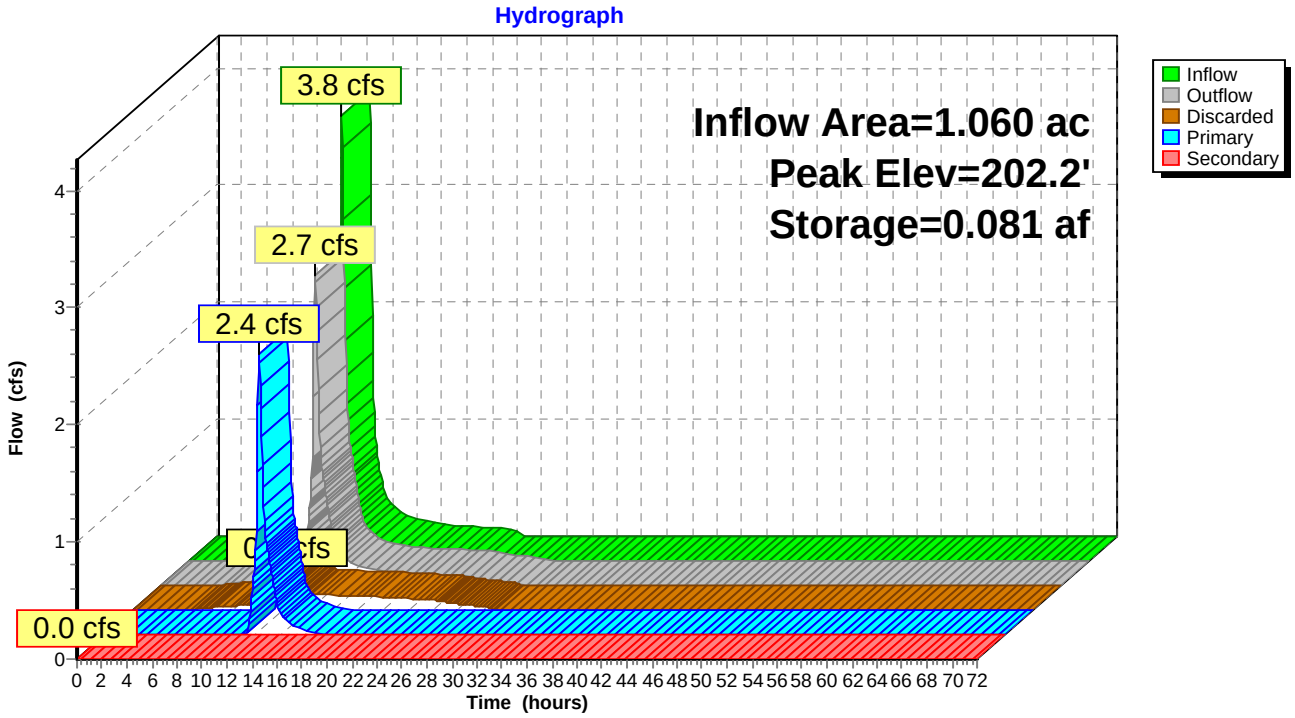
Device	Routing	Invert	Outlet Devices
#1	Device 4	203.0'	**24.0" x 36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Discarded	199.0'	**2.000 in/hr Exfiltration over Wetted area** Conductivity to Groundwater Elevation = 194.0'
#3	Secondary	204.0'	**15.0' long x 6.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8 2.0 2.5 3.0 3.5 4.0 4.5 5.0 5.5 Coef. (English) 2.37 2.51 2.70 2.68 2.68 2.67 2.65 2.65 2.65 2.65 2.66 2.66 2.67 2.69 2.72 2.76 2.83
#4	Primary	199.9'	**12.0" Round Culvert** L= 8.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 199.9' / 199.1' S= 0.1000 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf
#5	Device 4	200.6'	**6.0" Vert. Orifice/Grate** C= 0.600
#6	Primary	201.5'	**6.0" Vert. Orifice/Grate X 2.00** C= 0.600

Discarded OutFlow Max=0.3 cfs @ 12.32 hrs HW=202.2' (Free Discharge)
└**2=Exfiltration** (Controls 0.3 cfs)

Primary OutFlow Max=2.4 cfs @ 12.32 hrs HW=202.2' (Free Discharge)
└**4=Culvert** (Passes 1.1 cfs of 5.1 cfs potential flow)
└**1=Orifice/Grate** (Controls 0.0 cfs)
└**5=Orifice/Grate** (Orifice Controls 1.1 cfs @ 5.60 fps)
└**6=Orifice/Grate** (Orifice Controls 1.3 cfs @ 3.24 fps)

Secondary OutFlow Max=0.0 cfs @ 0.00 hrs HW=199.0' (Free Discharge)
└**3=Broad-Crested Rectangular Weir** (Controls 0.0 cfs)

Pond 2P: Basin 2



Stage-Area-Storage for Pond 2P: Basin 2

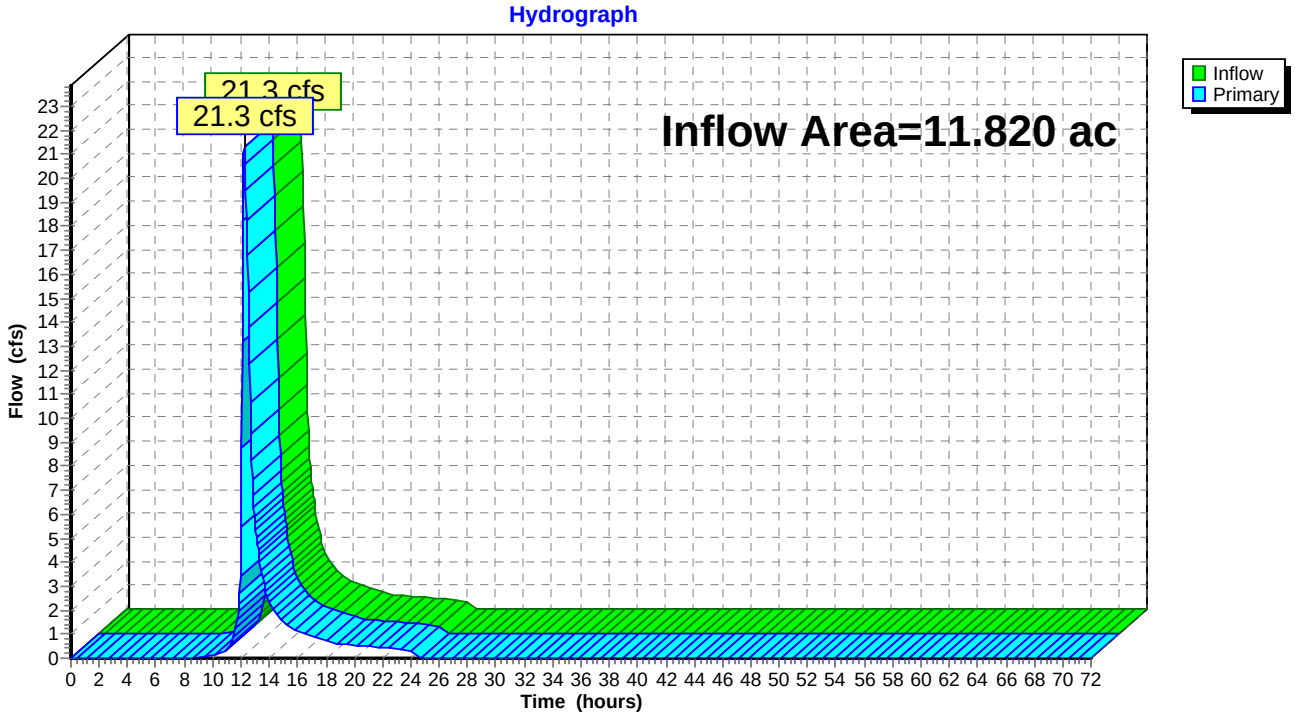
Elevation (feet)	Surface (acres)	Wetted (acres)	Storage (acre-feet)
199.0	0.013	0.013	0.000
199.1	0.014	0.015	0.001
199.2	0.014	0.017	0.003
199.3	0.015	0.019	0.004
199.4	0.016	0.021	0.006
199.5	0.016	0.023	0.007
199.6	0.017	0.025	0.009
199.7	0.018	0.027	0.011
199.8	0.018	0.030	0.013
199.9	0.019	0.032	0.014
200.0	0.020	0.035	0.016
200.1	0.021	0.037	0.018
200.2	0.021	0.040	0.021
200.3	0.022	0.042	0.023
200.4	0.023	0.045	0.025
200.5	0.024	0.047	0.027
200.6	0.025	0.050	0.030
200.7	0.025	0.053	0.032
200.8	0.026	0.056	0.035
200.9	0.027	0.059	0.038
201.0	0.028	0.062	0.040
201.1	0.029	0.065	0.043
201.2	0.030	0.068	0.046
201.3	0.031	0.071	0.049
201.4	0.032	0.075	0.052
201.5	0.033	0.078	0.055
201.6	0.034	0.081	0.059
201.7	0.035	0.085	0.062
201.8	0.036	0.088	0.066
201.9	0.037	0.092	0.069
202.0	0.038	0.095	0.073
202.1	0.039	0.099	0.077
202.2	0.040	0.103	0.081
202.3	0.041	0.107	0.085
202.4	0.043	0.111	0.089
202.5	0.044	0.115	0.094
202.6	0.045	0.119	0.098
202.7	0.046	0.123	0.103
202.8	0.047	0.127	0.107
202.9	0.049	0.131	0.112
203.0	0.050	0.135	0.117
203.1	0.051	0.138	0.122
203.2	0.053	0.141	0.127
203.3	0.054	0.144	0.133
203.4	0.055	0.147	0.138
203.5	0.057	0.150	0.144
203.6	0.058	0.153	0.149
203.7	0.060	0.156	0.155
203.8	0.061	0.159	0.161
203.9	0.063	0.162	0.168
204.0	0.064	0.165	0.174
204.1	0.068	0.170	0.180
204.2	0.072	0.174	0.187
204.3	0.077	0.179	0.195
204.4	0.081	0.183	0.203
204.5	**0.086**	**0.188**	**0.211**

Summary for Link 1L: To Off Site (North)

Inflow Area = 11.820 ac, 26.99% Impervious, Inflow Depth = 2.21" for 10 Year event
Inflow = 21.3 cfs @ 12.24 hrs, Volume= 2.175 af
Primary = 21.3 cfs @ 12.24 hrs, Volume= 2.175 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Link 1L: To Off Site (North)



Summary for Subcatchment PDA-1A: Proposed Drainage Area 1A

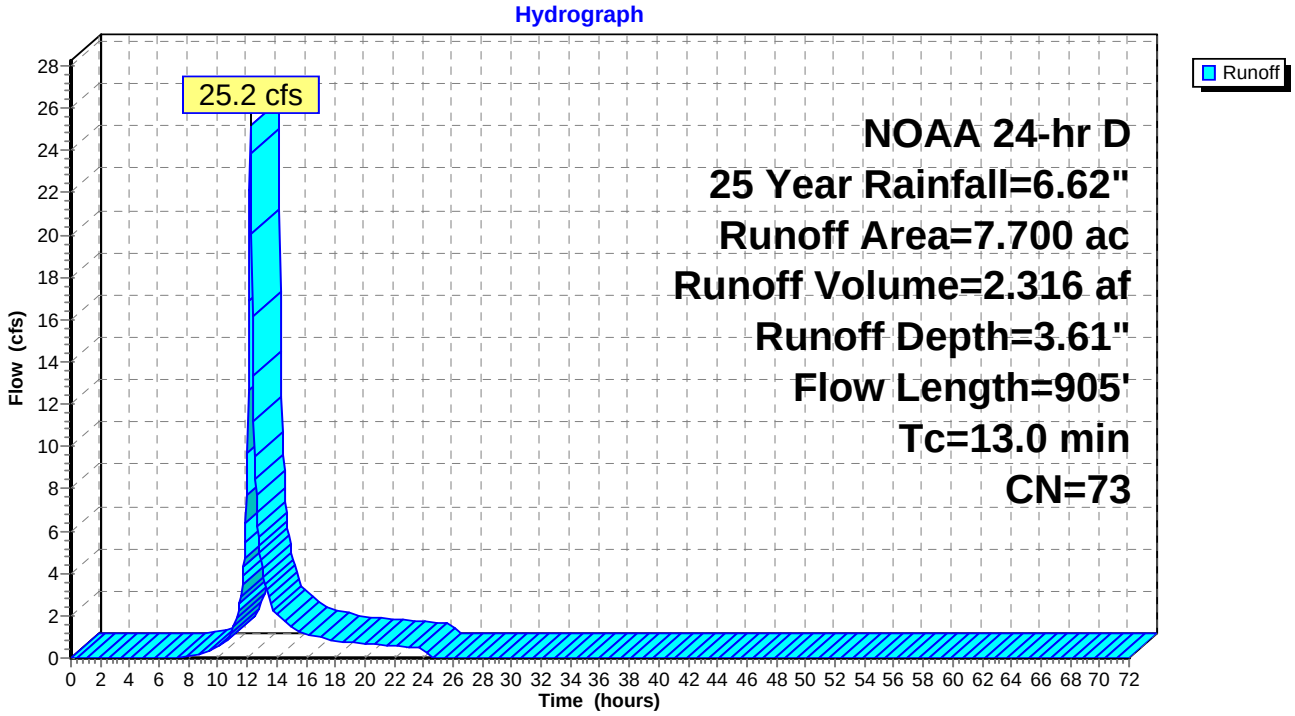
Runoff = 25.2 cfs @ 12.21 hrs, Volume= 2.316 af, Depth= 3.61"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr D 25 Year Rainfall=6.62"

Area (ac)	CN	Description
2.270	98	Paved parking, HSG D
0.720	61	>75% Grass cover, Good, HSG B
0.020	74	>75% Grass cover, Good, HSG C
0.520	80	>75% Grass cover, Good, HSG D
2.890	55	Woods, Good, HSG B
0.300	70	Woods, Good, HSG C
0.980	77	Woods, Good, HSG D
7.700	73	Weighted Average
5.430		70.52% Pervious Area
2.270		29.48% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.7	100	0.0180	0.17		**Sheet Flow,** Grass: Short n= 0.150 P2= 3.52"
0.8	187	0.0535	3.72		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
1.1	229	0.0437	3.37		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.7	121	0.0331	2.93		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.3	69	0.0667	4.16		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.1	69	0.0490	11.65	14.30	**Pipe Channel,** 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.013
0.2	70	0.0043	4.72	14.83	**Pipe Channel,** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.1	60	0.0100	7.20	22.62	**Pipe Channel,** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
13.0	905	Total			

Subcatchment PDA-1A: Proposed Drainage Area 1A



Summary for Subcatchment PDA-1B: Proposed Drainage Area 1B

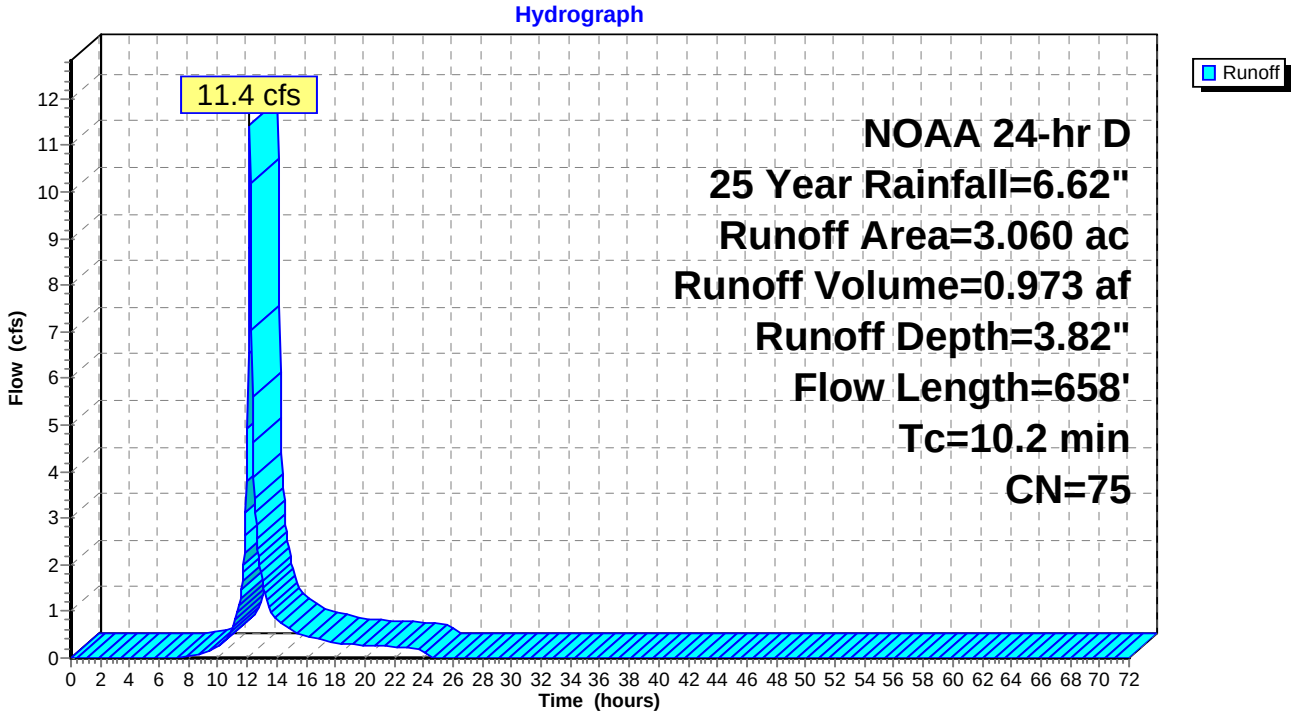
Runoff = 11.4 cfs @ 12.18 hrs, Volume= 0.973 af, Depth= 3.82"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr D 25 Year Rainfall=6.62"

Area (ac)	CN	Description
0.220	98	Paved parking, HSG D
0.160	61	>75% Grass cover, Good, HSG B
0.050	74	>75% Grass cover, Good, HSG C
0.870	80	>75% Grass cover, Good, HSG D
0.330	55	Woods, Good, HSG B
0.380	70	Woods, Good, HSG C
1.050	77	Woods, Good, HSG D
3.060	75	Weighted Average
2.840		92.81% Pervious Area
0.220		7.19% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.5	100	0.0500	0.26		**Sheet Flow,** Grass: Short n= 0.150 P2= 3.52"
1.4	324	0.0556	3.80		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.1	13	0.0154	2.00		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
2.2	221	0.0113	1.71		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
10.2	658	Total			

Subcatchment PDA-1B: Proposed Drainage Area 1B



Summary for Subcatchment PDA-1C: Proposed Drainage Area 1C

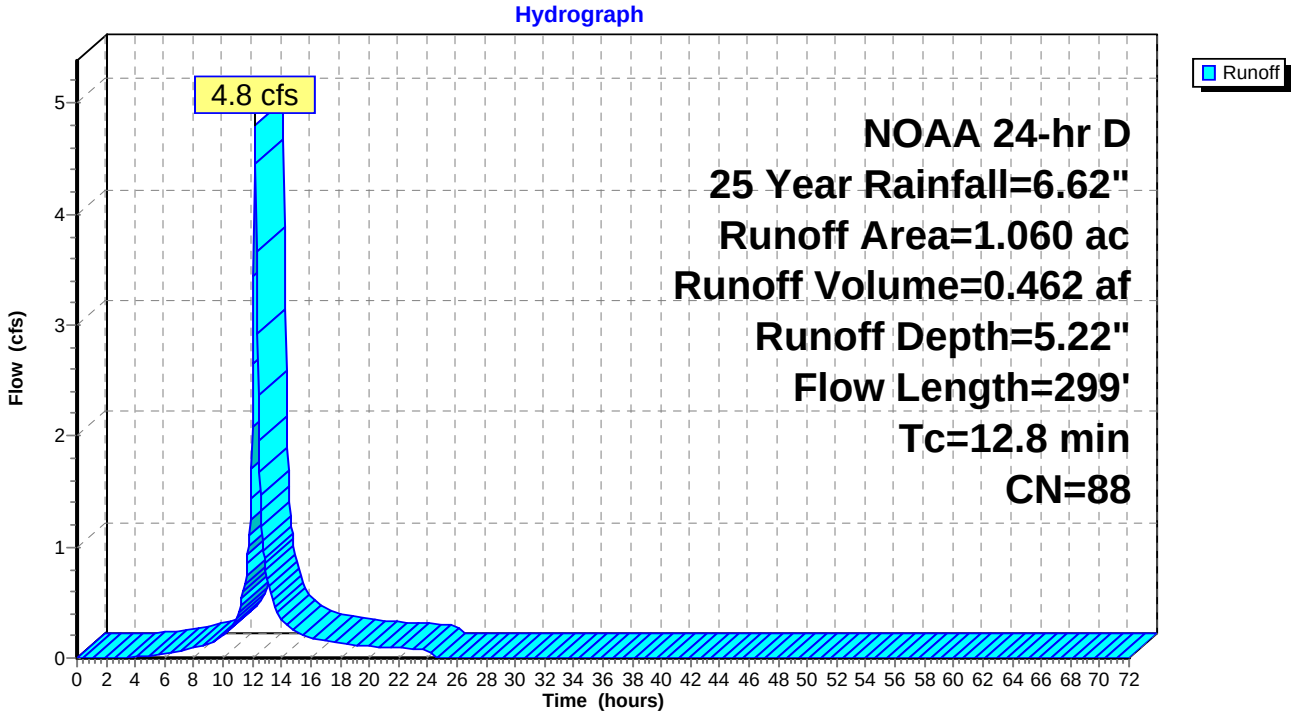
Runoff = 4.8 cfs @ 12.20 hrs, Volume= 0.462 af, Depth= 5.22"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr D 25 Year Rainfall=6.62"

Area (ac)	CN	Description
0.700	98	Paved parking, HSG B
0.190	61	>75% Grass cover, Good, HSG B
0.170	80	>75% Grass cover, Good, HSG D
1.060	88	Weighted Average
0.360		33.96% Pervious Area
0.700		66.04% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.5	100	0.0120	0.15		**Sheet Flow,** Grass: Short n= 0.150 P2= 3.52"
0.6	59	0.0120	1.76		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.6	120	0.0291	3.46		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
0.0	4	0.0250	11.39	35.77	**Pipe Channel,** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.1	16	0.0050	5.09	16.00	**Pipe Channel,** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
12.8	299	Total			

Subcatchment PDA-1C: Proposed Drainage Area 1C



Summary for Pond 1P: Basin 1

Inflow Area = 7.700 ac, 29.48% Impervious, Inflow Depth = 3.61" for 25 Year event
Inflow = 25.2 cfs @ 12.21 hrs, Volume= 2.316 af
Outflow = 21.0 cfs @ 12.30 hrs, Volume= 2.316 af, Atten= 17%, Lag= 5.2 min
Discarded = 0.3 cfs @ 12.30 hrs, Volume= 0.425 af
Primary = 20.7 cfs @ 12.30 hrs, Volume= 1.891 af
Secondary = 0.0 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 205.0' @ 12.30 hrs Surf.Area= 0.113 ac Storage= 0.401 af

Plug-Flow detention time= 101.8 min calculated for 2.315 af (100% of inflow)
Center-of-Mass det. time= 102.4 min (945.1 - 842.7)

Volume	Invert	Avail.Storage	Storage Description
#1	200.0'	0.736 af	**Custom Stage Data (Irregular)** Listed below (Recalc)

Elevation (feet)	Surf.Area (acres)	Perim. (feet)	Inc.Store (acre-feet)	Cum.Store (acre-feet)	Wet.Area (acres)
200.0	0.050	244.0	0.000	0.000	0.050
201.0	0.062	256.0	0.056	0.056	0.062
202.0	0.074	269.0	0.068	0.124	0.076
203.0	0.087	281.0	0.080	0.204	0.090
204.0	0.100	294.0	0.093	0.298	0.105
205.0	0.114	306.0	0.107	0.405	0.120
206.0	0.128	319.0	0.121	0.525	0.136
207.0	0.143	331.0	0.135	0.661	0.152
207.5	0.158	344.0	0.075	0.736	0.169

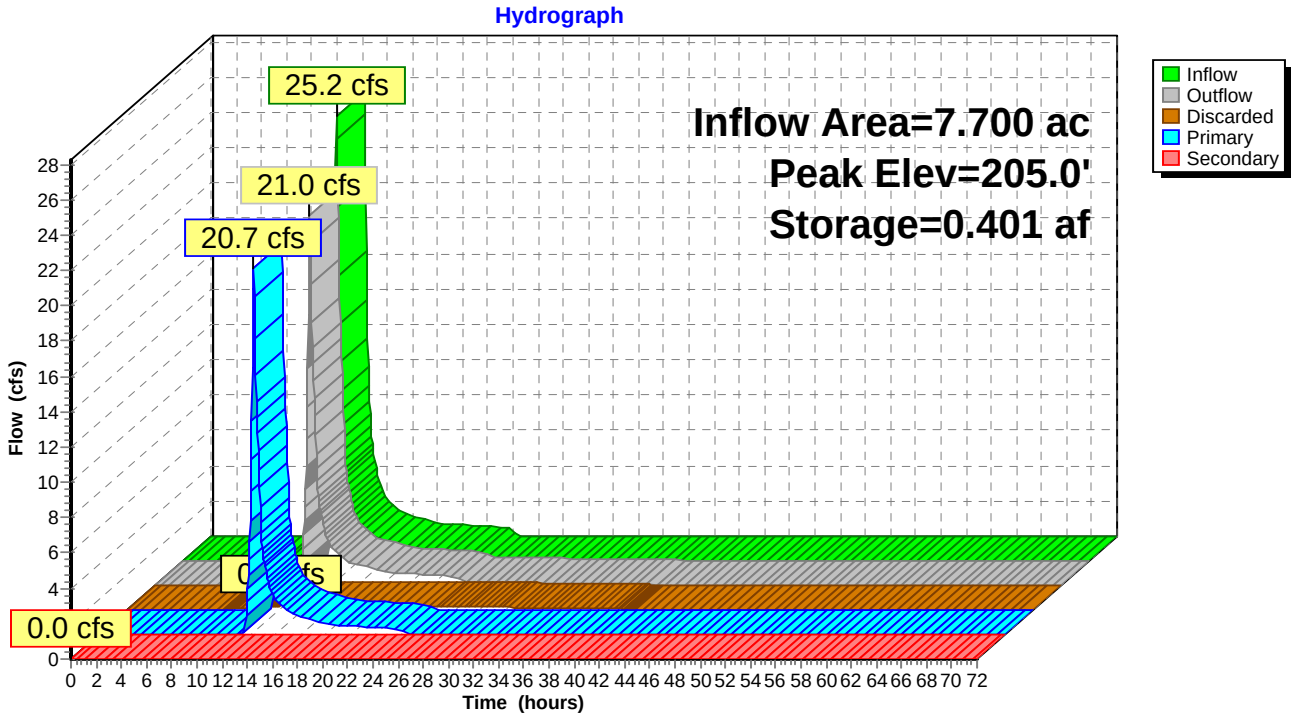
Device	Routing	Invert	Outlet Devices
#1	Device 4	206.0'	**24.0" x 36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Discarded	200.0'	**2.000 in/hr Exfiltration over Wetted area** Conductivity to Groundwater Elevation = 180.0'
#3	Secondary	206.5'	**15.0' long x 6.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8 2.0 2.5 3.0 3.5 4.0 4.5 5.0 5.5 Coef. (English) 2.37 2.51 2.70 2.68 2.68 2.67 2.65 2.65 2.65 2.65 2.66 2.66 2.67 2.69 2.72 2.76 2.83
#4	Primary	200.0'	**24.0" Round Culvert** L= 160.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 200.0' / 199.0' S= 0.0063 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf
#5	Device 4	202.6'	**15.0" Vert. Orifice/Grate X 2.00** C= 0.600
#6	Device 4	204.5'	**30.0" W x 9.0" H Vert. Orifice/Grate X 2.00** C= 0.600

Discarded OutFlow Max=0.3 cfs @ 12.30 hrs HW=205.0' (Free Discharge)
└**2=Exfiltration** (Controls 0.3 cfs)

Primary OutFlow Max=20.6 cfs @ 12.30 hrs HW=205.0' (Free Discharge)
└**4=Culvert** (Passes 20.6 cfs of 26.8 cfs potential flow)
  └**1=Orifice/Grate** (Controls 0.0 cfs)
  └**5=Orifice/Grate** (Orifice Controls 15.6 cfs @ 6.34 fps)
  └**6=Orifice/Grate** (Orifice Controls 5.0 cfs @ 2.18 fps)

Secondary OutFlow Max=0.0 cfs @ 0.00 hrs HW=200.0' (Free Discharge)
└**3=Broad-Crested Rectangular Weir** (Controls 0.0 cfs)

Pond 1P: Basin 1



Stage-Area-Storage for Pond 1P: Basin 1

Elevation (feet)	Surface (acres)	Wetted (acres)	Storage (acre-feet)
200.0	0.050	0.050	0.000
200.1	0.051	0.051	0.005
200.2	0.052	0.052	0.010
200.3	0.053	0.054	0.016
200.4	0.055	0.055	0.021
200.5	0.056	0.056	0.026
200.6	0.057	0.057	0.032
200.7	0.058	0.059	0.038
200.8	0.059	0.060	0.044
200.9	0.061	0.061	0.050
201.0	0.062	0.062	0.056
201.1	0.063	0.064	0.062
201.2	0.064	0.065	0.069
201.3	0.065	0.066	0.075
201.4	0.067	0.068	0.082
201.5	0.068	0.069	0.088
201.6	0.069	0.071	0.095
201.7	0.070	0.072	0.102
201.8	0.072	0.073	0.109
201.9	0.073	0.075	0.116
202.0	0.074	0.076	0.124
202.1	0.075	0.078	0.131
202.2	0.077	0.079	0.139
202.3	0.078	0.080	0.147
202.4	0.079	0.082	0.154
202.5	0.080	0.083	0.162
202.6	0.082	0.084	0.170
202.7	0.083	0.086	0.179
202.8	0.084	0.087	0.187
202.9	0.086	0.088	0.196
203.0	0.087	0.090	0.204
203.1	0.088	0.091	0.213
203.2	0.090	0.093	0.222
203.3	0.091	0.094	0.231
203.4	0.092	0.096	0.240
203.5	0.093	0.097	0.249
203.6	0.095	0.099	0.259
203.7	0.096	0.100	0.268
203.8	0.097	0.102	0.278
203.9	0.099	0.103	0.288
204.0	0.100	0.105	0.298
204.1	0.101	0.106	0.308
204.2	0.103	0.108	0.318
204.3	0.104	0.109	0.328
204.4	0.105	0.111	0.339
204.5	0.107	0.112	0.349
204.6	0.108	0.114	0.360
204.7	0.110	0.115	0.371
204.8	0.111	0.117	0.382
204.9	0.113	0.118	0.393
205.0	0.114	0.120	0.405
205.1	0.115	0.121	0.416
205.2	0.117	0.123	0.428
205.3	0.118	0.125	0.439
205.4	0.120	0.126	0.451
205.5	0.121	0.128	0.463
205.6	0.122	0.130	0.475
205.7	0.124	0.131	0.488
205.8	0.125	0.133	0.500
205.9	0.127	0.135	0.513
206.0	0.128	0.136	0.525
206.1	0.129	0.138	0.538
206.2	0.131	0.140	0.551
206.3	0.132	0.141	0.565
206.4	0.134	0.143	0.578
206.5	0.135	0.144	0.591
206.6	0.137	0.146	0.605
206.7	0.138	0.148	0.619
206.8	0.140	0.149	0.633
206.9	0.141	0.151	0.647
207.0	0.143	0.152	0.661
207.1	0.146	0.156	0.675
207.2	0.149	0.159	0.690
207.3	0.152	0.162	0.705
207.4	0.155	0.166	0.720
207.5	**0.158**	**0.169**	**0.736**

Summary for Pond 2P: Basin 2

Inflow Area = 1.060 ac, 66.04% Impervious, Inflow Depth = 5.22" for 25 Year event
Inflow = 4.8 cfs @ 12.20 hrs, Volume= 0.462 af
Outflow = 3.2 cfs @ 12.33 hrs, Volume= 0.462 af, Atten= 33%, Lag= 7.7 min
Discarded = 0.3 cfs @ 12.33 hrs, Volume= 0.199 af
Primary = 2.9 cfs @ 12.33 hrs, Volume= 0.263 af
Secondary = 0.0 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 202.5' @ 12.33 hrs Surf.Area= 0.044 ac Storage= 0.095 af

Plug-Flow detention time= 73.8 min calculated for 0.462 af (100% of inflow)
Center-of-Mass det. time= 73.7 min (873.4 - 799.7)

Volume	Invert	Avail.Storage	Storage Description
#1	199.0'	0.211 af	**Custom Stage Data (Irregular)** Listed below (Recalc)

Elevation (feet)	Surf.Area (acres)	Perim. (feet)	Inc.Store (acre-feet)	Cum.Store (acre-feet)	Wet.Area (acres)
199.0	0.013	118.0	0.000	0.000	0.013
200.0	0.020	160.0	0.016	0.016	0.035
201.0	0.028	200.8	0.024	0.040	0.062
202.0	0.038	242.0	0.033	0.073	0.095
203.0	0.050	283.0	0.044	0.117	0.135
204.0	0.064	310.0	0.057	0.174	0.165
204.5	0.086	329.0	0.037	0.211	0.188

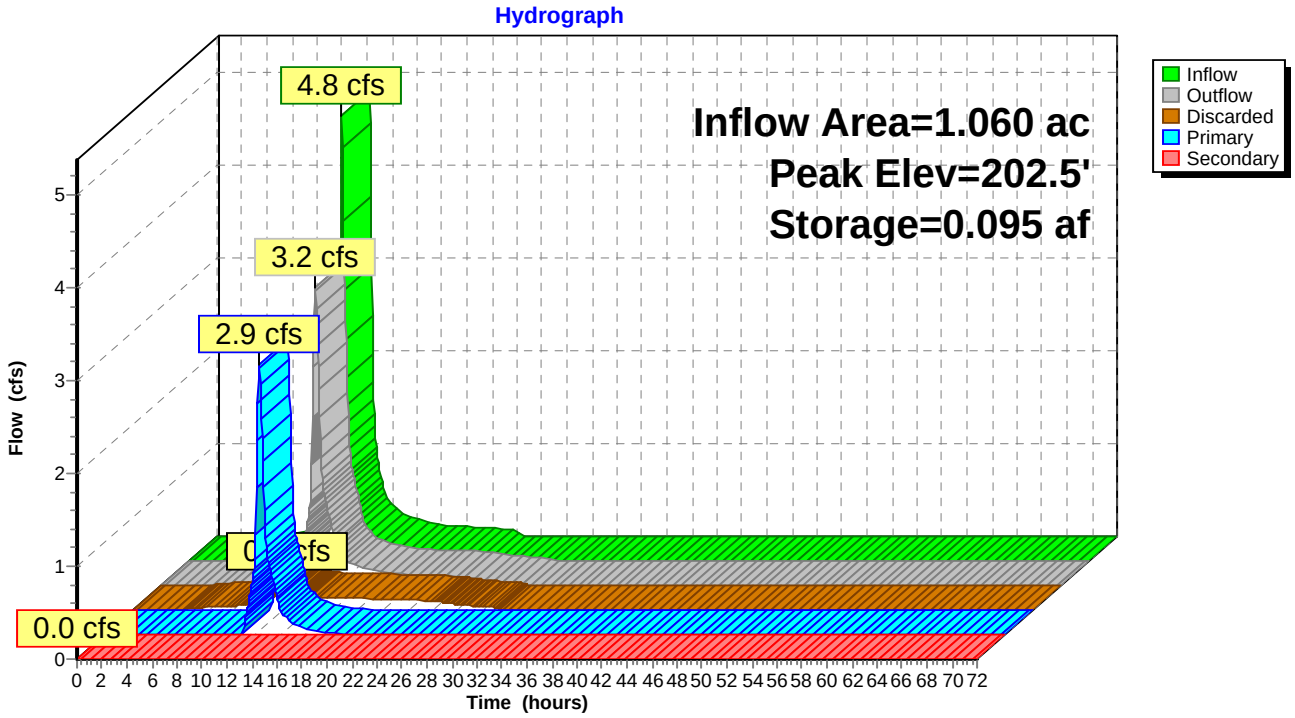
Device	Routing	Invert	Outlet Devices
#1	Device 4	203.0'	**24.0" x 36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Discarded	199.0'	**2.000 in/hr Exfiltration over Wetted area** Conductivity to Groundwater Elevation = 194.0'
#3	Secondary	204.0'	**15.0' long x 6.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8 2.0 2.5 3.0 3.5 4.0 4.5 5.0 5.5 Coef. (English) 2.37 2.51 2.70 2.68 2.68 2.67 2.65 2.65 2.65 2.65 2.66 2.66 2.67 2.69 2.72 2.76 2.83
#4	Primary	199.9'	**12.0" Round Culvert** L= 8.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 199.9' / 199.1' S= 0.1000 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf
#5	Device 4	200.6'	**6.0" Vert. Orifice/Grate** C= 0.600
#6	Primary	201.5'	**6.0" Vert. Orifice/Grate X 2.00** C= 0.600

Discarded OutFlow Max=0.3 cfs @ 12.33 hrs HW=202.5' (Free Discharge)
└**2=Exfiltration** (Controls 0.3 cfs)

Primary OutFlow Max=2.9 cfs @ 12.33 hrs HW=202.5' (Free Discharge)
└**4=Culvert** (Passes 1.2 cfs of 5.5 cfs potential flow)
  └**1=Orifice/Grate** (Controls 0.0 cfs)
  └**5=Orifice/Grate** (Orifice Controls 1.2 cfs @ 6.25 fps)
└**6=Orifice/Grate** (Orifice Controls 1.7 cfs @ 4.27 fps)

Secondary OutFlow Max=0.0 cfs @ 0.00 hrs HW=199.0' (Free Discharge)
└**3=Broad-Crested Rectangular Weir** (Controls 0.0 cfs)

Pond 2P: Basin 2



Stage-Area-Storage for Pond 2P: Basin 2

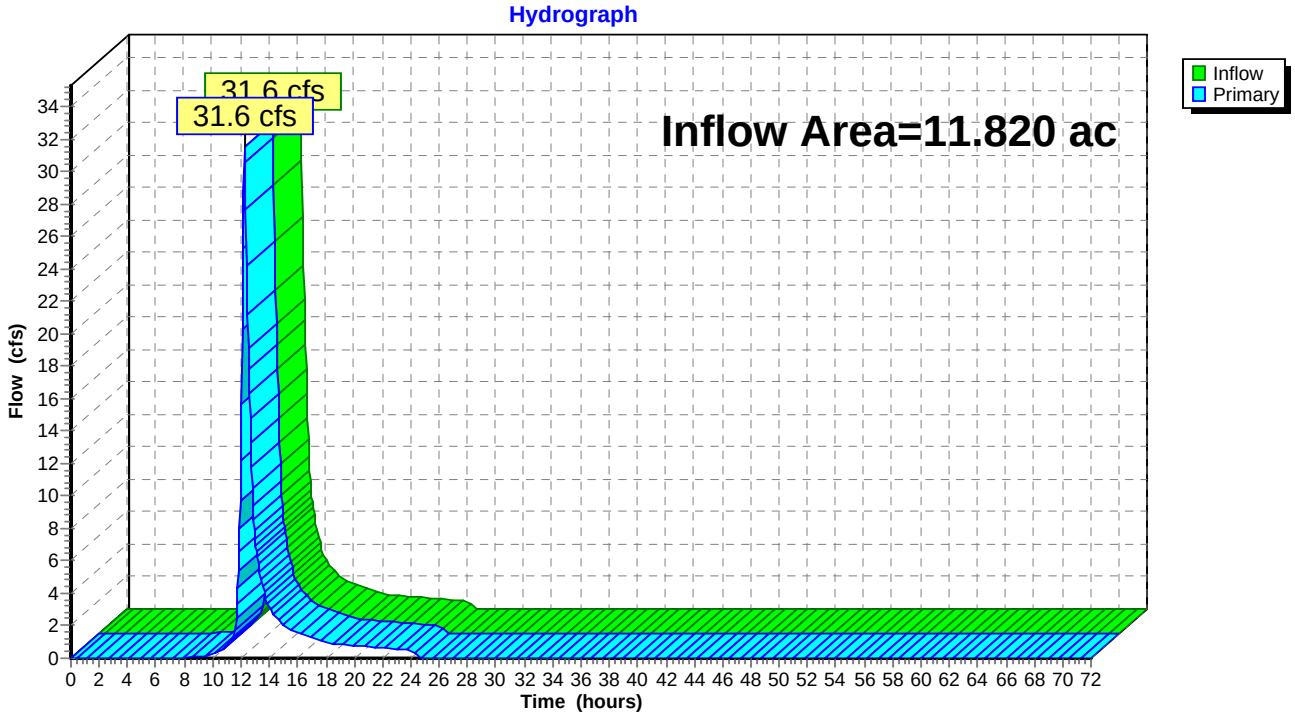
Elevation (feet)	Surface (acres)	Wetted (acres)	Storage (acre-feet)
199.0	0.013	0.013	0.000
199.1	0.014	0.015	0.001
199.2	0.014	0.017	0.003
199.3	0.015	0.019	0.004
199.4	0.016	0.021	0.006
199.5	0.016	0.023	0.007
199.6	0.017	0.025	0.009
199.7	0.018	0.027	0.011
199.8	0.018	0.030	0.013
199.9	0.019	0.032	0.014
200.0	0.020	0.035	0.016
200.1	0.021	0.037	0.018
200.2	0.021	0.040	0.021
200.3	0.022	0.042	0.023
200.4	0.023	0.045	0.025
200.5	0.024	0.047	0.027
200.6	0.025	0.050	0.030
200.7	0.025	0.053	0.032
200.8	0.026	0.056	0.035
200.9	0.027	0.059	0.038
201.0	0.028	0.062	0.040
201.1	0.029	0.065	0.043
201.2	0.030	0.068	0.046
201.3	0.031	0.071	0.049
201.4	0.032	0.075	0.052
201.5	0.033	0.078	0.055
201.6	0.034	0.081	0.059
201.7	0.035	0.085	0.062
201.8	0.036	0.088	0.066
201.9	0.037	0.092	0.069
202.0	0.038	0.095	0.073
202.1	0.039	0.099	0.077
202.2	0.040	0.103	0.081
202.3	0.041	0.107	0.085
202.4	0.043	0.111	0.089
202.5	0.044	0.115	0.094
202.6	0.045	0.119	0.098
202.7	0.046	0.123	0.103
202.8	0.047	0.127	0.107
202.9	0.049	0.131	0.112
203.0	0.050	0.135	0.117
203.1	0.051	0.138	0.122
203.2	0.053	0.141	0.127
203.3	0.054	0.144	0.133
203.4	0.055	0.147	0.138
203.5	0.057	0.150	0.144
203.6	0.058	0.153	0.149
203.7	0.060	0.156	0.155
203.8	0.061	0.159	0.161
203.9	0.063	0.162	0.168
204.0	0.064	0.165	0.174
204.1	0.068	0.170	0.180
204.2	0.072	0.174	0.187
204.3	0.077	0.179	0.195
204.4	0.081	0.183	0.203
204.5	**0.086**	**0.188**	**0.211**

Summary for Link 1L: To Off Site (North)

Inflow Area = 11.820 ac, 26.99% Impervious, Inflow Depth = 3.17" for 25 Year event
Inflow = 31.6 cfs @ 12.26 hrs, Volume= 3.127 af
Primary = 31.6 cfs @ 12.26 hrs, Volume= 3.127 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Link 1L: To Off Site (North)



Summary for Subcatchment PDA-1A: Proposed Drainage Area 1A

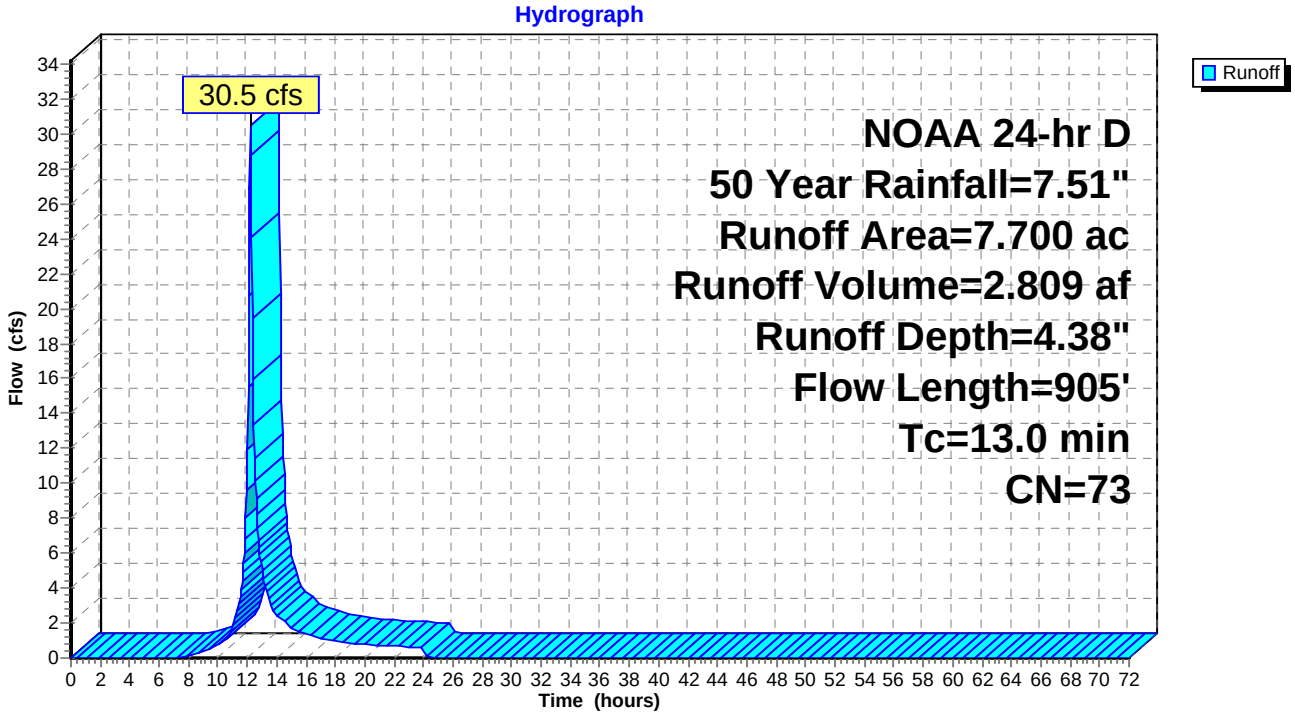
Runoff = 30.5 cfs @ 12.21 hrs, Volume= 2.809 af, Depth= 4.38"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr D 50 Year Rainfall=7.51"

Area (ac)	CN	Description
2.270	98	Paved parking, HSG D
0.720	61	>75% Grass cover, Good, HSG B
0.020	74	>75% Grass cover, Good, HSG C
0.520	80	>75% Grass cover, Good, HSG D
2.890	55	Woods, Good, HSG B
0.300	70	Woods, Good, HSG C
0.980	77	Woods, Good, HSG D
7.700	73	Weighted Average
5.430		70.52% Pervious Area
2.270		29.48% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.7	100	0.0180	0.17		**Sheet Flow,** Grass: Short n= 0.150 P2= 3.52"
0.8	187	0.0535	3.72		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
1.1	229	0.0437	3.37		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.7	121	0.0331	2.93		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.3	69	0.0667	4.16		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.1	69	0.0490	11.65	14.30	**Pipe Channel,** 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.013
0.2	70	0.0043	4.72	14.83	**Pipe Channel,** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.1	60	0.0100	7.20	22.62	**Pipe Channel,** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
13.0	905	Total			

Subcatchment PDA-1A: Proposed Drainage Area 1A



Summary for Subcatchment PDA-1B: Proposed Drainage Area 1B

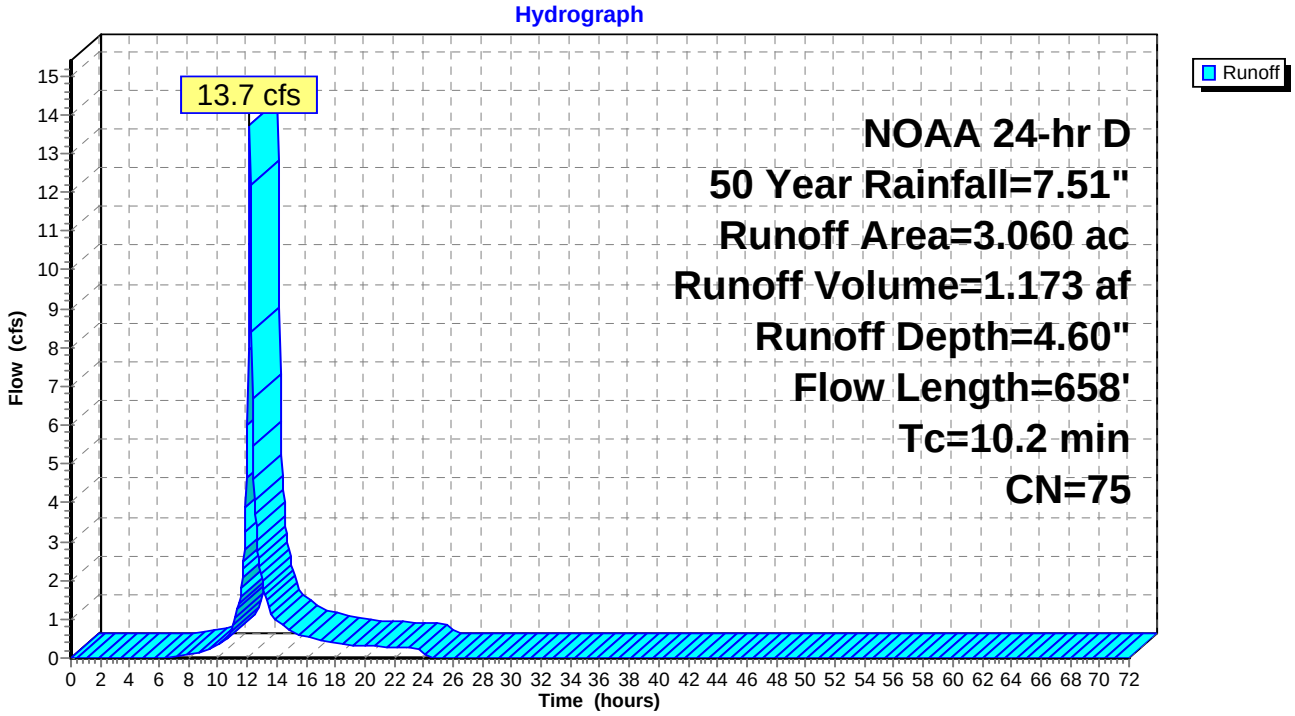
Runoff = 13.7 cfs @ 12.18 hrs, Volume= 1.173 af, Depth= 4.60"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr D 50 Year Rainfall=7.51"

Area (ac)	CN	Description
0.220	98	Paved parking, HSG D
0.160	61	>75% Grass cover, Good, HSG B
0.050	74	>75% Grass cover, Good, HSG C
0.870	80	>75% Grass cover, Good, HSG D
0.330	55	Woods, Good, HSG B
0.380	70	Woods, Good, HSG C
1.050	77	Woods, Good, HSG D
3.060	75	Weighted Average
2.840		92.81% Pervious Area
0.220		7.19% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.5	100	0.0500	0.26		**Sheet Flow,** Grass: Short n= 0.150 P2= 3.52"
1.4	324	0.0556	3.80		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.1	13	0.0154	2.00		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
2.2	221	0.0113	1.71		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
10.2	658	Total			

Subcatchment PDA-1B: Proposed Drainage Area 1B



Summary for Subcatchment PDA-1C: Proposed Drainage Area 1C

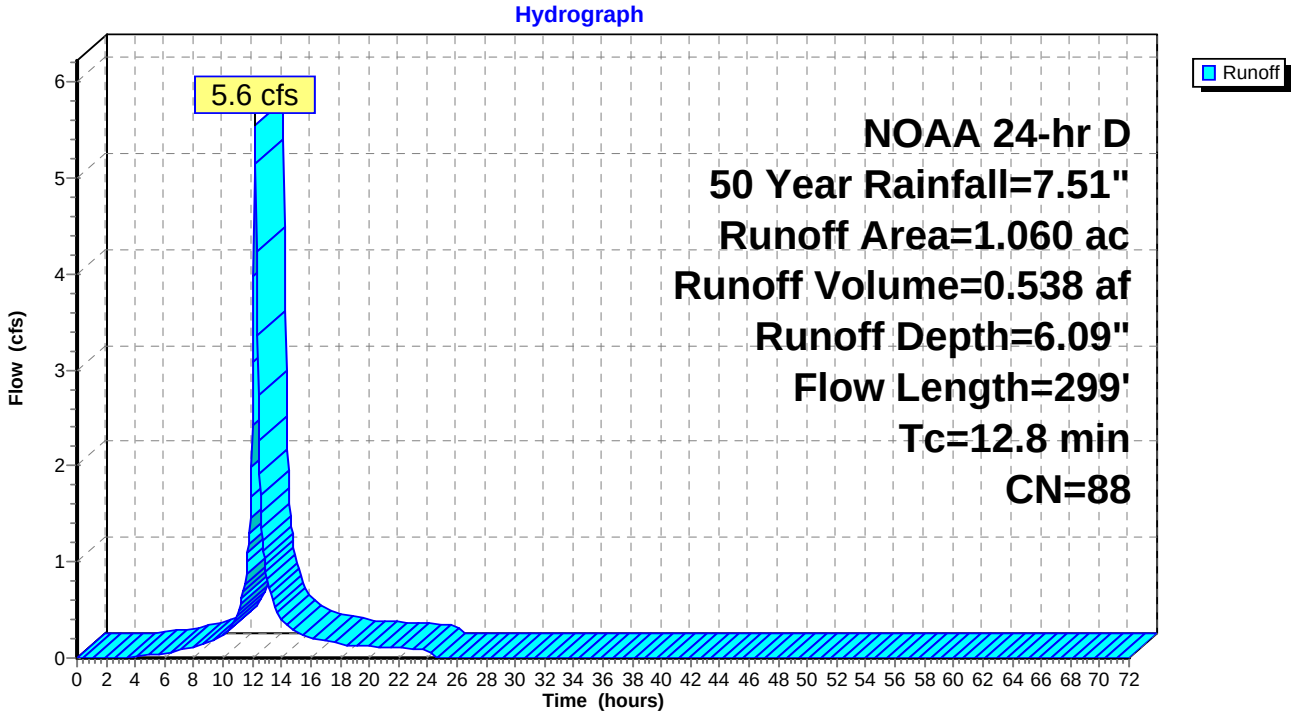
Runoff = 5.6 cfs @ 12.20 hrs, Volume= 0.538 af, Depth= 6.09"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr D 50 Year Rainfall=7.51"

Area (ac)	CN	Description
0.700	98	Paved parking, HSG B
0.190	61	>75% Grass cover, Good, HSG B
0.170	80	>75% Grass cover, Good, HSG D
1.060	88	Weighted Average
0.360		33.96% Pervious Area
0.700		66.04% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.5	100	0.0120	0.15		**Sheet Flow,** Grass: Short n= 0.150 P2= 3.52"
0.6	59	0.0120	1.76		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.6	120	0.0291	3.46		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
0.0	4	0.0250	11.39	35.77	**Pipe Channel,** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.1	16	0.0050	5.09	16.00	**Pipe Channel,** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
12.8	299	Total			

Subcatchment PDA-1C: Proposed Drainage Area 1C



Summary for Pond 1P: Basin 1

Inflow Area = 7.700 ac, 29.48% Impervious, Inflow Depth = 4.38" for 50 Year event
Inflow = 30.5 cfs @ 12.21 hrs, Volume= 2.809 af
Outflow = 26.7 cfs @ 12.28 hrs, Volume= 2.809 af, Atten= 13%, Lag= 4.0 min
Discarded = 0.3 cfs @ 12.28 hrs, Volume= 0.437 af
Primary = 26.4 cfs @ 12.28 hrs, Volume= 2.373 af
Secondary = 0.0 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 205.2' @ 12.28 hrs Surf.Area= 0.117 ac Storage= 0.430 af

Plug-Flow detention time= 87.1 min calculated for 2.807 af (100% of inflow)
Center-of-Mass det. time= 87.7 min (924.3 - 836.6)

Volume	Invert	Avail.Storage	Storage Description
#1	200.0'	0.736 af	**Custom Stage Data (Irregular)** Listed below (Recalc)

Elevation (feet)	Surf.Area (acres)	Perim. (feet)	Inc.Store (acre-feet)	Cum.Store (acre-feet)	Wet.Area (acres)
200.0	0.050	244.0	0.000	0.000	0.050
201.0	0.062	256.0	0.056	0.056	0.062
202.0	0.074	269.0	0.068	0.124	0.076
203.0	0.087	281.0	0.080	0.204	0.090
204.0	0.100	294.0	0.093	0.298	0.105
205.0	0.114	306.0	0.107	0.405	0.120
206.0	0.128	319.0	0.121	0.525	0.136
207.0	0.143	331.0	0.135	0.661	0.152
207.5	0.158	344.0	0.075	0.736	0.169

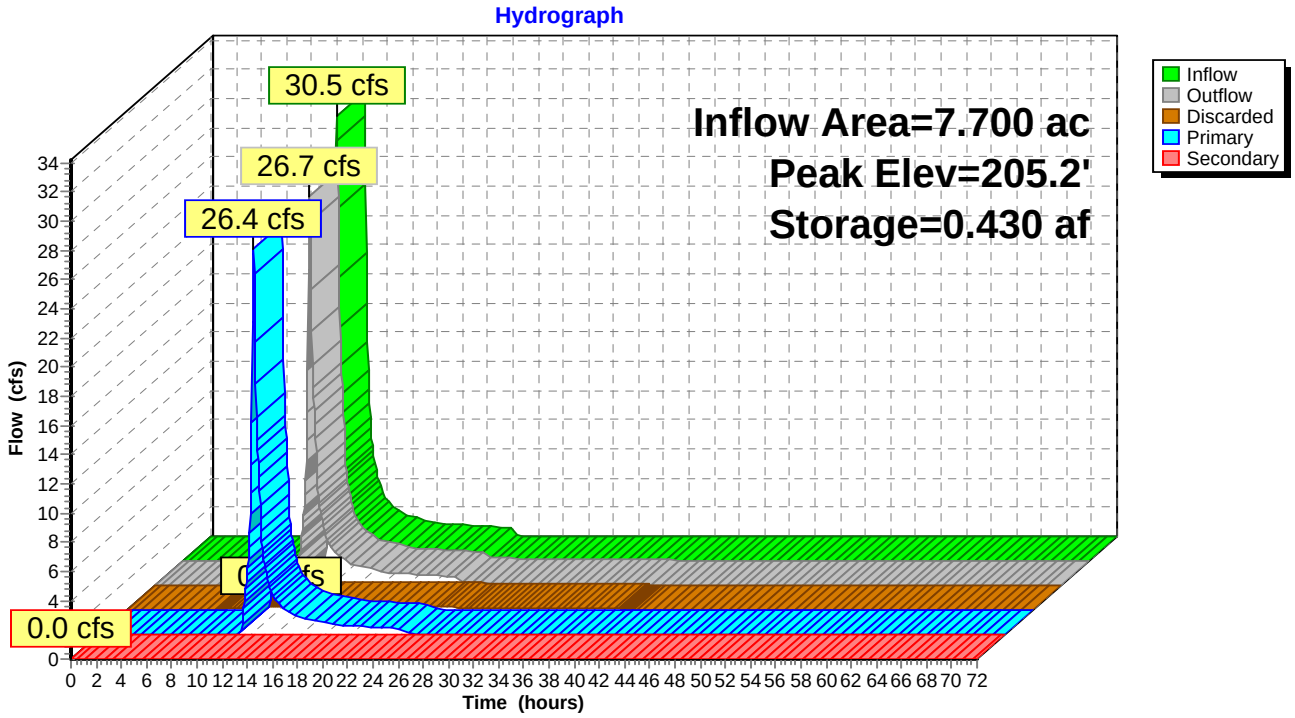
Device	Routing	Invert	Outlet Devices
#1	Device 4	206.0'	**24.0" x 36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Discarded	200.0'	**2.000 in/hr Exfiltration over Wetted area** Conductivity to Groundwater Elevation = 180.0'
#3	Secondary	206.5'	**15.0' long x 6.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8 2.0 2.5 3.0 3.5 4.0 4.5 5.0 5.5 Coef. (English) 2.37 2.51 2.70 2.68 2.68 2.67 2.65 2.65 2.65 2.65 2.66 2.66 2.67 2.69 2.72 2.76 2.83
#4	Primary	200.0'	**24.0" Round Culvert** L= 160.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 200.0' / 199.0' S= 0.0063 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf
#5	Device 4	202.6'	**15.0" Vert. Orifice/Grate X 2.00** C= 0.600
#6	Device 4	204.5'	**30.0" W x 9.0" H Vert. Orifice/Grate X 2.00** C= 0.600

Discarded OutFlow Max=0.3 cfs @ 12.28 hrs HW=205.2' (Free Discharge)
└**2=Exfiltration** (Controls 0.3 cfs)

Primary OutFlow Max=26.0 cfs @ 12.28 hrs HW=205.2' (Free Discharge)
└**4=Culvert** (Passes 26.0 cfs of 27.6 cfs potential flow)
  └**1=Orifice/Grate** (Controls 0.0 cfs)
  └**5=Orifice/Grate** (Orifice Controls 16.6 cfs @ 6.77 fps)
  └**6=Orifice/Grate** (Orifice Controls 9.4 cfs @ 2.69 fps)

Secondary OutFlow Max=0.0 cfs @ 0.00 hrs HW=200.0' (Free Discharge)
└**3=Broad-Crested Rectangular Weir** (Controls 0.0 cfs)

Pond 1P: Basin 1



Stage-Area-Storage for Pond 1P: Basin 1

Elevation (feet)	Surface (acres)	Wetted (acres)	Storage (acre-feet)
200.0	0.050	0.050	0.000
200.1	0.051	0.051	0.005
200.2	0.052	0.052	0.010
200.3	0.053	0.054	0.016
200.4	0.055	0.055	0.021
200.5	0.056	0.056	0.026
200.6	0.057	0.057	0.032
200.7	0.058	0.059	0.038
200.8	0.059	0.060	0.044
200.9	0.061	0.061	0.050
201.0	0.062	0.062	0.056
201.1	0.063	0.064	0.062
201.2	0.064	0.065	0.069
201.3	0.065	0.066	0.075
201.4	0.067	0.068	0.082
201.5	0.068	0.069	0.088
201.6	0.069	0.071	0.095
201.7	0.070	0.072	0.102
201.8	0.072	0.073	0.109
201.9	0.073	0.075	0.116
202.0	0.074	0.076	0.124
202.1	0.075	0.078	0.131
202.2	0.077	0.079	0.139
202.3	0.078	0.080	0.147
202.4	0.079	0.082	0.154
202.5	0.080	0.083	0.162
202.6	0.082	0.084	0.170
202.7	0.083	0.086	0.179
202.8	0.084	0.087	0.187
202.9	0.086	0.088	0.196
203.0	0.087	0.090	0.204
203.1	0.088	0.091	0.213
203.2	0.090	0.093	0.222
203.3	0.091	0.094	0.231
203.4	0.092	0.096	0.240
203.5	0.093	0.097	0.249
203.6	0.095	0.099	0.259
203.7	0.096	0.100	0.268
203.8	0.097	0.102	0.278
203.9	0.099	0.103	0.288
204.0	0.100	0.105	0.298
204.1	0.101	0.106	0.308
204.2	0.103	0.108	0.318
204.3	0.104	0.109	0.328
204.4	0.105	0.111	0.339
204.5	0.107	0.112	0.349
204.6	0.108	0.114	0.360
204.7	0.110	0.115	0.371
204.8	0.111	0.117	0.382
204.9	0.113	0.118	0.393
205.0	0.114	0.120	0.405
205.1	0.115	0.121	0.416
205.2	0.117	0.123	0.428
205.3	0.118	0.125	0.439
205.4	0.120	0.126	0.451
205.5	0.121	0.128	0.463
205.6	0.122	0.130	0.475
205.7	0.124	0.131	0.488
205.8	0.125	0.133	0.500
205.9	0.127	0.135	0.513
206.0	0.128	0.136	0.525
206.1	0.129	0.138	0.538
206.2	0.131	0.140	0.551
206.3	0.132	0.141	0.565
206.4	0.134	0.143	0.578
206.5	0.135	0.144	0.591
206.6	0.137	0.146	0.605
206.7	0.138	0.148	0.619
206.8	0.140	0.149	0.633
206.9	0.141	0.151	0.647
207.0	0.143	0.152	0.661
207.1	0.146	0.156	0.675
207.2	0.149	0.159	0.690
207.3	0.152	0.162	0.705
207.4	0.155	0.166	0.720
207.5	**0.158**	**0.169**	**0.736**

Summary for Pond 2P: Basin 2

Inflow Area = 1.060 ac, 66.04% Impervious, Inflow Depth = 6.09" for 50 Year event
Inflow = 5.6 cfs @ 12.20 hrs, Volume= 0.538 af
Outflow = 3.6 cfs @ 12.34 hrs, Volume= 0.538 af, Atten= 36%, Lag= 8.3 min
Discarded = 0.3 cfs @ 12.34 hrs, Volume= 0.214 af
Primary = 3.2 cfs @ 12.34 hrs, Volume= 0.323 af
Secondary = 0.0 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 202.8' @ 12.34 hrs Surf.Area= 0.047 ac Storage= 0.107 af

Plug-Flow detention time= 69.3 min calculated for 0.538 af (100% of inflow)
Center-of-Mass det. time= 69.5 min (864.6 - 795.2)

Volume	Invert	Avail.Storage	Storage Description
#1	199.0'	0.211 af	**Custom Stage Data (Irregular)** Listed below (Recalc)

Elevation (feet)	Surf.Area (acres)	Perim. (feet)	Inc.Store (acre-feet)	Cum.Store (acre-feet)	Wet.Area (acres)
199.0	0.013	118.0	0.000	0.000	0.013
200.0	0.020	160.0	0.016	0.016	0.035
201.0	0.028	200.8	0.024	0.040	0.062
202.0	0.038	242.0	0.033	0.073	0.095
203.0	0.050	283.0	0.044	0.117	0.135
204.0	0.064	310.0	0.057	0.174	0.165
204.5	0.086	329.0	0.037	0.211	0.188

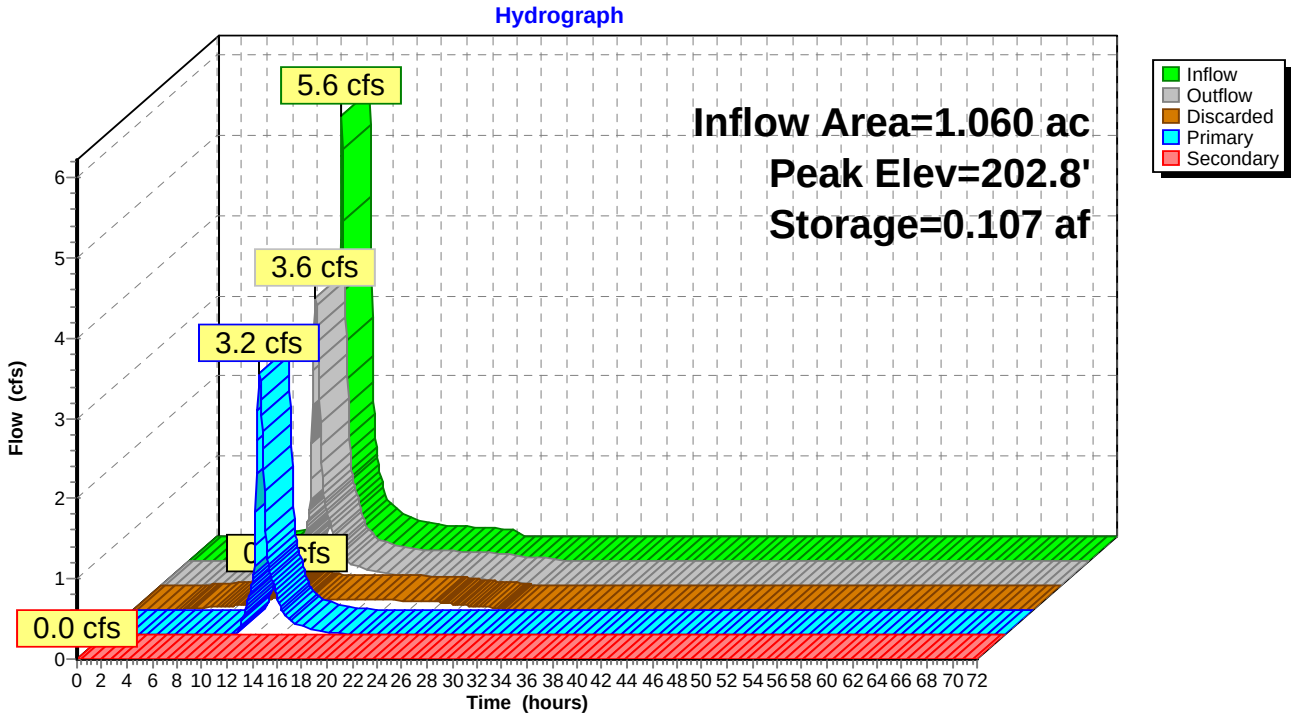
Device	Routing	Invert	Outlet Devices
#1	Device 4	203.0'	**24.0" x 36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Discarded	199.0'	**2.000 in/hr Exfiltration over Wetted area** Conductivity to Groundwater Elevation = 194.0'
#3	Secondary	204.0'	**15.0' long x 6.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8 2.0 2.5 3.0 3.5 4.0 4.5 5.0 5.5 Coef. (English) 2.37 2.51 2.70 2.68 2.68 2.67 2.65 2.65 2.65 2.65 2.66 2.66 2.67 2.69 2.72 2.76 2.83
#4	Primary	199.9'	**12.0" Round Culvert** L= 8.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 199.9' / 199.1' S= 0.1000 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf
#5	Device 4	200.6'	**6.0" Vert. Orifice/Grate** C= 0.600
#6	Primary	201.5'	**6.0" Vert. Orifice/Grate X 2.00** C= 0.600

Discarded OutFlow Max=0.3 cfs @ 12.34 hrs HW=202.8' (Free Discharge)
└**2=Exfiltration** (Controls 0.3 cfs)

Primary OutFlow Max=3.2 cfs @ 12.34 hrs HW=202.8' (Free Discharge)
└**4=Culvert** (Passes 1.3 cfs of 5.8 cfs potential flow)
└**1=Orifice/Grate** (Controls 0.0 cfs)
└**5=Orifice/Grate** (Orifice Controls 1.3 cfs @ 6.70 fps)
└**6=Orifice/Grate** (Orifice Controls 1.9 cfs @ 4.90 fps)

Secondary OutFlow Max=0.0 cfs @ 0.00 hrs HW=199.0' (Free Discharge)
└**3=Broad-Crested Rectangular Weir** (Controls 0.0 cfs)

Pond 2P: Basin 2



Stage-Area-Storage for Pond 2P: Basin 2

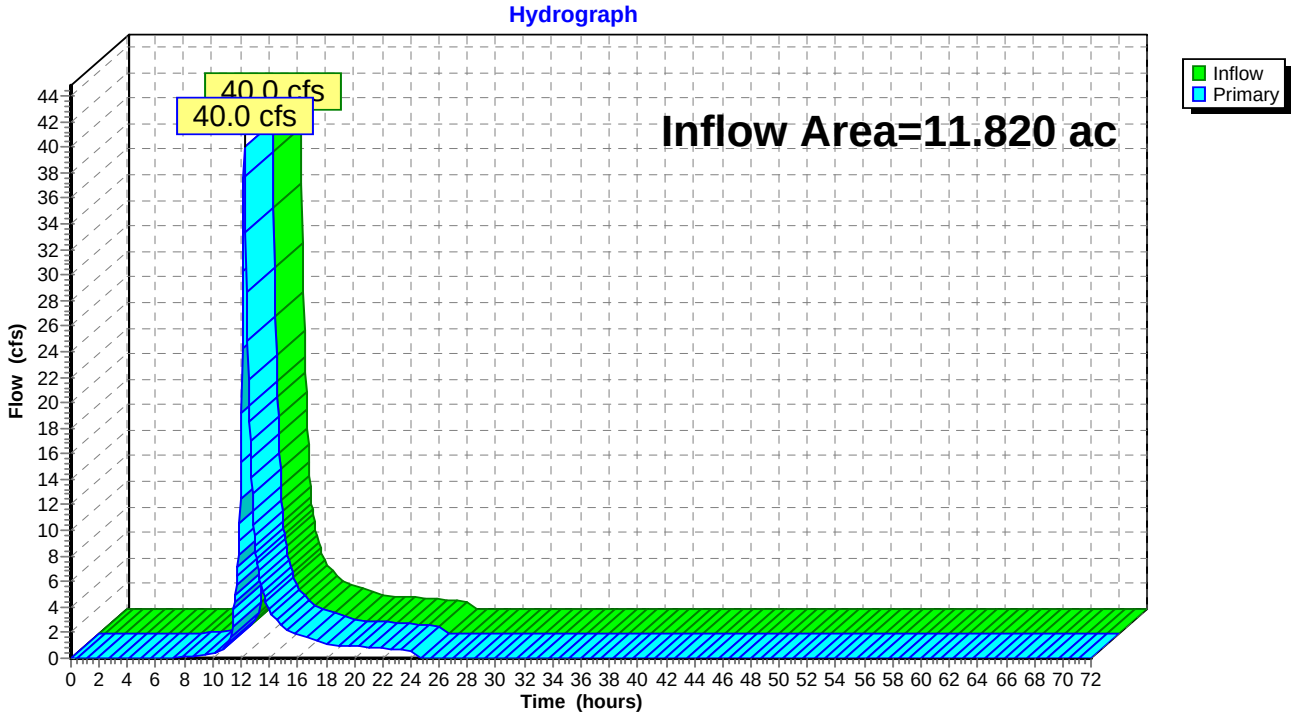
Elevation (feet)	Surface (acres)	Wetted (acres)	Storage (acre-feet)
199.0	0.013	0.013	0.000
199.1	0.014	0.015	0.001
199.2	0.014	0.017	0.003
199.3	0.015	0.019	0.004
199.4	0.016	0.021	0.006
199.5	0.016	0.023	0.007
199.6	0.017	0.025	0.009
199.7	0.018	0.027	0.011
199.8	0.018	0.030	0.013
199.9	0.019	0.032	0.014
200.0	0.020	0.035	0.016
200.1	0.021	0.037	0.018
200.2	0.021	0.040	0.021
200.3	0.022	0.042	0.023
200.4	0.023	0.045	0.025
200.5	0.024	0.047	0.027
200.6	0.025	0.050	0.030
200.7	0.025	0.053	0.032
200.8	0.026	0.056	0.035
200.9	0.027	0.059	0.038
201.0	0.028	0.062	0.040
201.1	0.029	0.065	0.043
201.2	0.030	0.068	0.046
201.3	0.031	0.071	0.049
201.4	0.032	0.075	0.052
201.5	0.033	0.078	0.055
201.6	0.034	0.081	0.059
201.7	0.035	0.085	0.062
201.8	0.036	0.088	0.066
201.9	0.037	0.092	0.069
202.0	0.038	0.095	0.073
202.1	0.039	0.099	0.077
202.2	0.040	0.103	0.081
202.3	0.041	0.107	0.085
202.4	0.043	0.111	0.089
202.5	0.044	0.115	0.094
202.6	0.045	0.119	0.098
202.7	0.046	0.123	0.103
202.8	0.047	0.127	0.107
202.9	0.049	0.131	0.112
203.0	0.050	0.135	0.117
203.1	0.051	0.138	0.122
203.2	0.053	0.141	0.127
203.3	0.054	0.144	0.133
203.4	0.055	0.147	0.138
203.5	0.057	0.150	0.144
203.6	0.058	0.153	0.149
203.7	0.060	0.156	0.155
203.8	0.061	0.159	0.161
203.9	0.063	0.162	0.168
204.0	0.064	0.165	0.174
204.1	0.068	0.170	0.180
204.2	0.072	0.174	0.187
204.3	0.077	0.179	0.195
204.4	0.081	0.183	0.203
204.5	**0.086**	**0.188**	**0.211**

Summary for Link 1L: To Off Site (North)

Inflow Area = 11.820 ac, 26.99% Impervious, Inflow Depth = 3.93" for 50 Year event
Inflow = 40.0 cfs @ 12.25 hrs, Volume= 3.870 af
Primary = 40.0 cfs @ 12.25 hrs, Volume= 3.870 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Link 1L: To Off Site (North)



Summary for Subcatchment PDA-1A: Proposed Drainage Area 1A

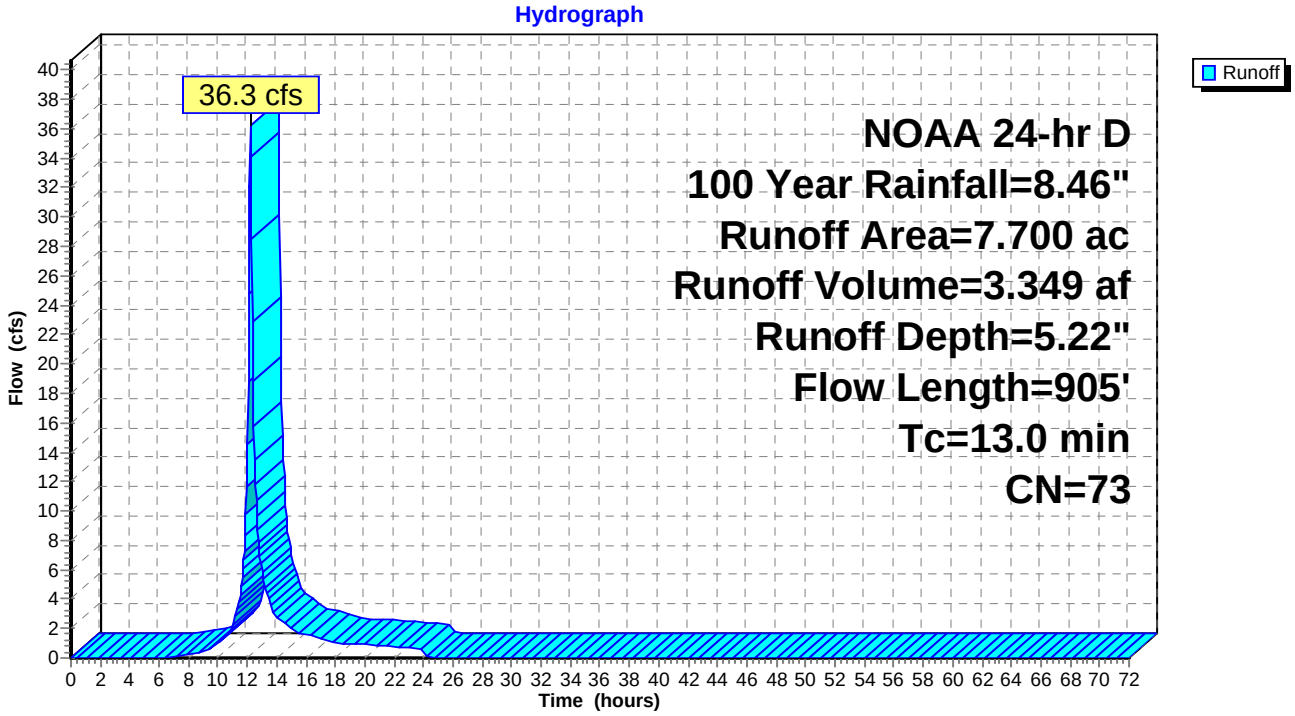
Runoff = 36.3 cfs @ 12.21 hrs, Volume= 3.349 af, Depth= 5.22"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr D 100 Year Rainfall=8.46"

Area (ac)	CN	Description
2.270	98	Paved parking, HSG D
0.720	61	>75% Grass cover, Good, HSG B
0.020	74	>75% Grass cover, Good, HSG C
0.520	80	>75% Grass cover, Good, HSG D
2.890	55	Woods, Good, HSG B
0.300	70	Woods, Good, HSG C
0.980	77	Woods, Good, HSG D
7.700	73	Weighted Average
5.430		70.52% Pervious Area
2.270		29.48% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.7	100	0.0180	0.17		**Sheet Flow,** Grass: Short n= 0.150 P2= 3.52"
0.8	187	0.0535	3.72		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
1.1	229	0.0437	3.37		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.7	121	0.0331	2.93		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.3	69	0.0667	4.16		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.1	69	0.0490	11.65	14.30	**Pipe Channel,** 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.013
0.2	70	0.0043	4.72	14.83	**Pipe Channel,** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.1	60	0.0100	7.20	22.62	**Pipe Channel,** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
13.0	905	Total			

Subcatchment PDA-1A: Proposed Drainage Area 1A



Summary for Subcatchment PDA-1B: Proposed Drainage Area 1B

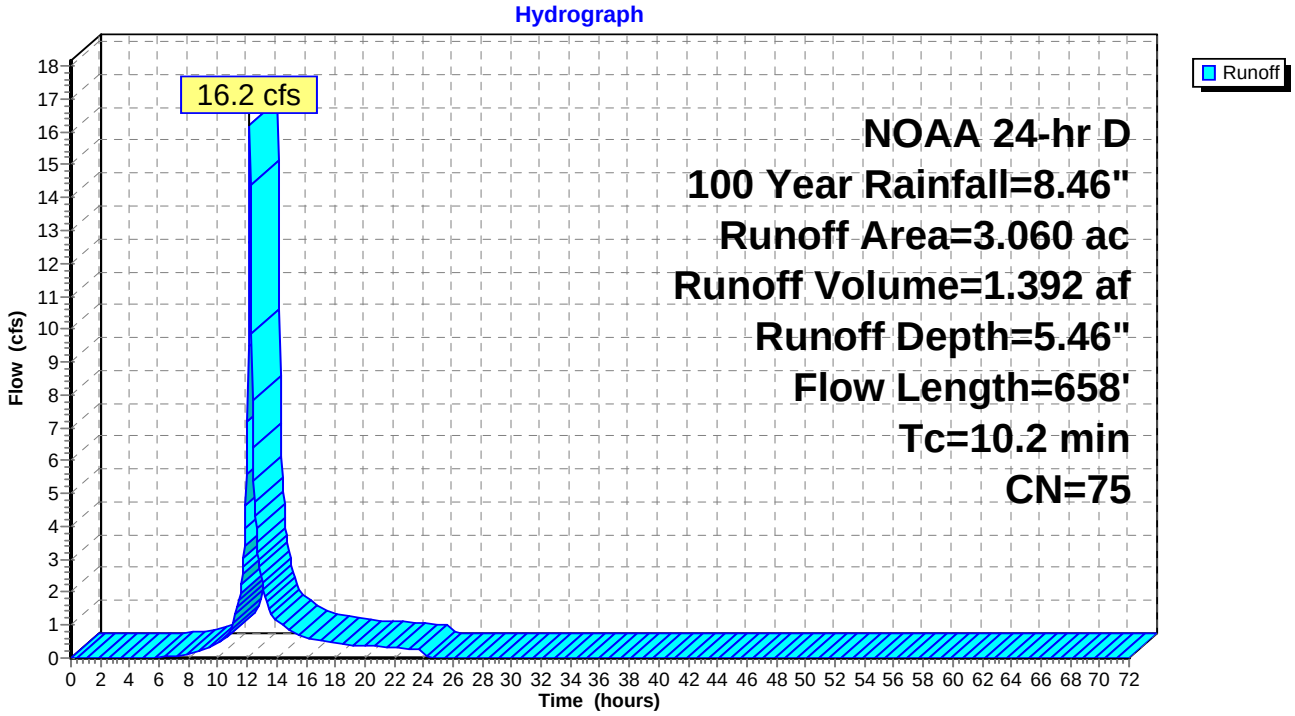
Runoff = 16.2 cfs @ 12.18 hrs, Volume= 1.392 af, Depth= 5.46"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr D 100 Year Rainfall=8.46"

Area (ac)	CN	Description
0.220	98	Paved parking, HSG D
0.160	61	>75% Grass cover, Good, HSG B
0.050	74	>75% Grass cover, Good, HSG C
0.870	80	>75% Grass cover, Good, HSG D
0.330	55	Woods, Good, HSG B
0.380	70	Woods, Good, HSG C
1.050	77	Woods, Good, HSG D
3.060	75	Weighted Average
2.840		92.81% Pervious Area
0.220		7.19% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.5	100	0.0500	0.26		**Sheet Flow,** Grass: Short n= 0.150 P2= 3.52"
1.4	324	0.0556	3.80		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.1	13	0.0154	2.00		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
2.2	221	0.0113	1.71		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
10.2	658	Total			

Subcatchment PDA-1B: Proposed Drainage Area 1B



Summary for Subcatchment PDA-1C: Proposed Drainage Area 1C

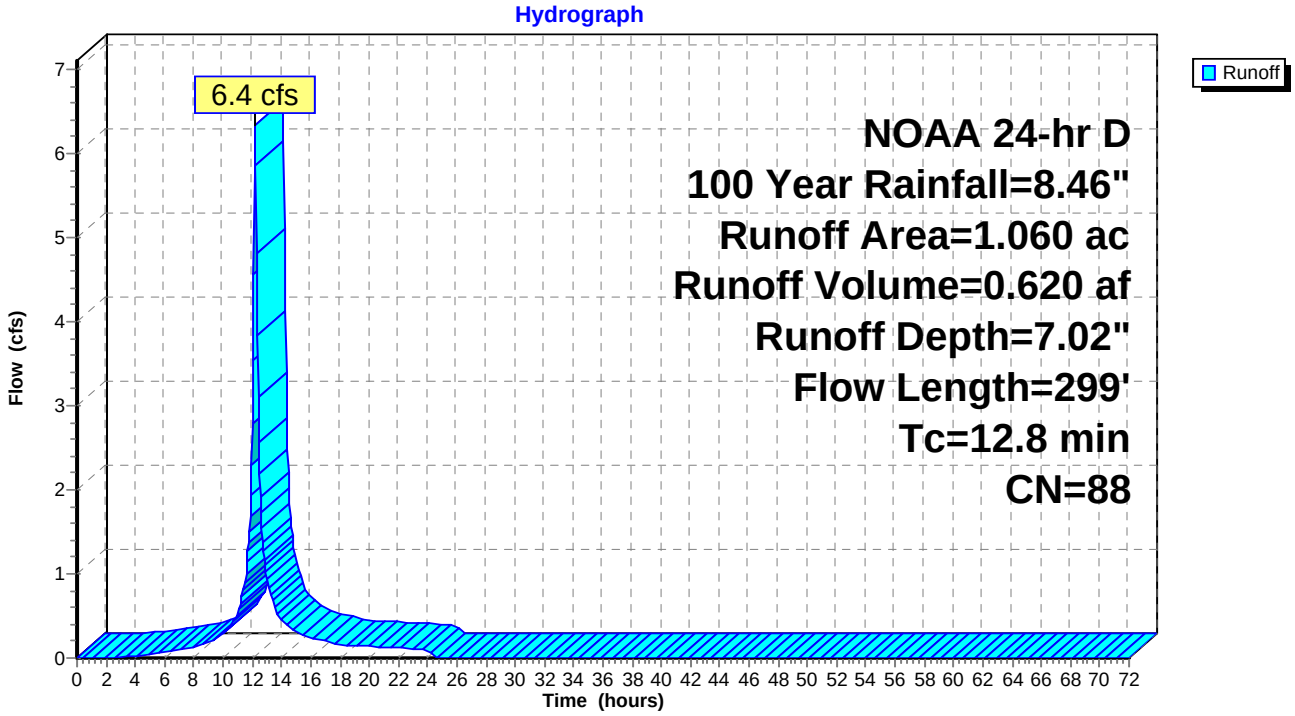
Runoff = 6.4 cfs @ 12.20 hrs, Volume= 0.620 af, Depth= 7.02"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
NOAA 24-hr D 100 Year Rainfall=8.46"

Area (ac)	CN	Description
0.700	98	Paved parking, HSG B
0.190	61	>75% Grass cover, Good, HSG B
0.170	80	>75% Grass cover, Good, HSG D
1.060	88	Weighted Average
0.360		33.96% Pervious Area
0.700		66.04% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.5	100	0.0120	0.15		**Sheet Flow,** Grass: Short n= 0.150 P2= 3.52"
0.6	59	0.0120	1.76		**Shallow Concentrated Flow,** Unpaved Kv= 16.1 fps
0.6	120	0.0291	3.46		**Shallow Concentrated Flow,** Paved Kv= 20.3 fps
0.0	4	0.0250	11.39	35.77	**Pipe Channel,** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
0.1	16	0.0050	5.09	16.00	**Pipe Channel,** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.013
12.8	299	Total			

Subcatchment PDA-1C: Proposed Drainage Area 1C



Summary for Pond 1P: Basin 1

Inflow Area = 7.700 ac, 29.48% Impervious, Inflow Depth = 5.22" for 100 Year event
Inflow = 36.3 cfs @ 12.21 hrs, Volume= 3.349 af
Outflow = 29.2 cfs @ 12.29 hrs, Volume= 3.349 af, Atten= 19%, Lag= 5.2 min
Discarded = 0.3 cfs @ 12.29 hrs, Volume= 0.448 af
Primary = 28.9 cfs @ 12.29 hrs, Volume= 2.901 af
Secondary = 0.0 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 205.6' @ 12.29 hrs Surf.Area= 0.122 ac Storage= 0.475 af

Plug-Flow detention time= 75.9 min calculated for 3.347 af (100% of inflow)
Center-of-Mass det. time= 76.5 min (907.5 - 831.0)

Volume	Invert	Avail.Storage	Storage Description
#1	200.0'	0.736 af	**Custom Stage Data (Irregular)** Listed below (Recalc)

Elevation (feet)	Surf.Area (acres)	Perim. (feet)	Inc.Store (acre-feet)	Cum.Store (acre-feet)	Wet.Area (acres)
200.0	0.050	244.0	0.000	0.000	0.050
201.0	0.062	256.0	0.056	0.056	0.062
202.0	0.074	269.0	0.068	0.124	0.076
203.0	0.087	281.0	0.080	0.204	0.090
204.0	0.100	294.0	0.093	0.298	0.105
205.0	0.114	306.0	0.107	0.405	0.120
206.0	0.128	319.0	0.121	0.525	0.136
207.0	0.143	331.0	0.135	0.661	0.152
207.5	0.158	344.0	0.075	0.736	0.169

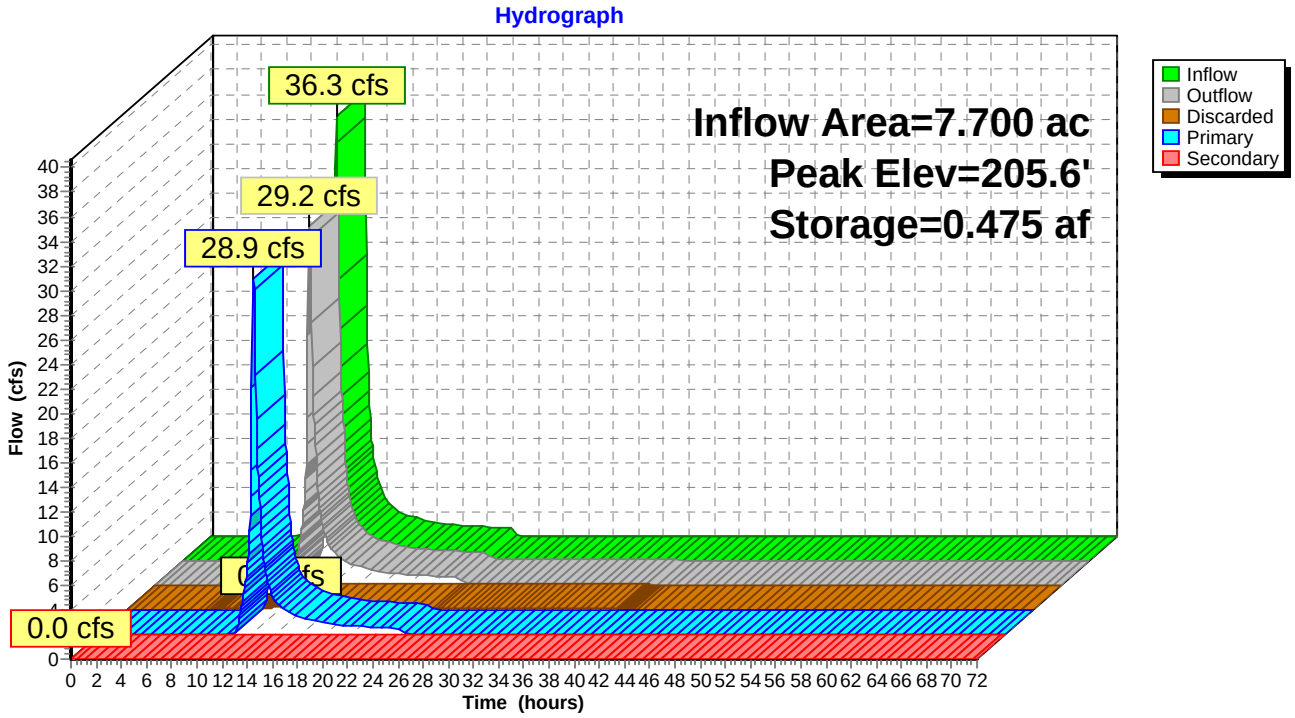
Device	Routing	Invert	Outlet Devices
#1	Device 4	206.0'	**24.0" x 36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Discarded	200.0'	**2.000 in/hr Exfiltration over Wetted area** Conductivity to Groundwater Elevation = 180.0'
#3	Secondary	206.5'	**15.0' long x 6.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8 2.0 2.5 3.0 3.5 4.0 4.5 5.0 5.5 Coef. (English) 2.37 2.51 2.70 2.68 2.68 2.67 2.65 2.65 2.65 2.65 2.66 2.66 2.67 2.69 2.72 2.76 2.83
#4	Primary	200.0'	**24.0" Round Culvert** L= 160.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 200.0' / 199.0' S= 0.0063 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 3.14 sf
#5	Device 4	202.6'	**15.0" Vert. Orifice/Grate X 2.00** C= 0.600
#6	Device 4	204.5'	**30.0" W x 9.0" H Vert. Orifice/Grate X 2.00** C= 0.600

Discarded OutFlow Max=0.3 cfs @ 12.29 hrs HW=205.6' (Free Discharge)
└**2=Exfiltration** (Controls 0.3 cfs)

Primary OutFlow Max=28.9 cfs @ 12.29 hrs HW=205.6' (Free Discharge)
└**4=Culvert** (Barrel Controls 28.9 cfs @ 9.20 fps)
  └**1=Orifice/Grate** (Controls 0.0 cfs)
  └**5=Orifice/Grate** (Passes < 18.2 cfs potential flow)
  └**6=Orifice/Grate** (Passes < 15.1 cfs potential flow)

Secondary OutFlow Max=0.0 cfs @ 0.00 hrs HW=200.0' (Free Discharge)
└**3=Broad-Crested Rectangular Weir** (Controls 0.0 cfs)

Pond 1P: Basin 1



Stage-Area-Storage for Pond 1P: Basin 1

Elevation (feet)	Surface (acres)	Wetted (acres)	Storage (acre-feet)
200.0	0.050	0.050	0.000
200.1	0.051	0.051	0.005
200.2	0.052	0.052	0.010
200.3	0.053	0.054	0.016
200.4	0.055	0.055	0.021
200.5	0.056	0.056	0.026
200.6	0.057	0.057	0.032
200.7	0.058	0.059	0.038
200.8	0.059	0.060	0.044
200.9	0.061	0.061	0.050
201.0	0.062	0.062	0.056
201.1	0.063	0.064	0.062
201.2	0.064	0.065	0.069
201.3	0.065	0.066	0.075
201.4	0.067	0.068	0.082
201.5	0.068	0.069	0.088
201.6	0.069	0.071	0.095
201.7	0.070	0.072	0.102
201.8	0.072	0.073	0.109
201.9	0.073	0.075	0.116
202.0	0.074	0.076	0.124
202.1	0.075	0.078	0.131
202.2	0.077	0.079	0.139
202.3	0.078	0.080	0.147
202.4	0.079	0.082	0.154
202.5	0.080	0.083	0.162
202.6	0.082	0.084	0.170
202.7	0.083	0.086	0.179
202.8	0.084	0.087	0.187
202.9	0.086	0.088	0.196
203.0	0.087	0.090	0.204
203.1	0.088	0.091	0.213
203.2	0.090	0.093	0.222
203.3	0.091	0.094	0.231
203.4	0.092	0.096	0.240
203.5	0.093	0.097	0.249
203.6	0.095	0.099	0.259
203.7	0.096	0.100	0.268
203.8	0.097	0.102	0.278
203.9	0.099	0.103	0.288
204.0	0.100	0.105	0.298
204.1	0.101	0.106	0.308
204.2	0.103	0.108	0.318
204.3	0.104	0.109	0.328
204.4	0.105	0.111	0.339
204.5	0.107	0.112	0.349
204.6	0.108	0.114	0.360
204.7	0.110	0.115	0.371
204.8	0.111	0.117	0.382
204.9	0.113	0.118	0.393
205.0	0.114	0.120	0.405
205.1	0.115	0.121	0.416
205.2	0.117	0.123	0.428
205.3	0.118	0.125	0.439
205.4	0.120	0.126	0.451
205.5	0.121	0.128	0.463
205.6	0.122	0.130	0.475
205.7	0.124	0.131	0.488
205.8	0.125	0.133	0.500
205.9	0.127	0.135	0.513
206.0	0.128	0.136	0.525
206.1	0.129	0.138	0.538
206.2	0.131	0.140	0.551
206.3	0.132	0.141	0.565
206.4	0.134	0.143	0.578
206.5	0.135	0.144	0.591
206.6	0.137	0.146	0.605
206.7	0.138	0.148	0.619
206.8	0.140	0.149	0.633
206.9	0.141	0.151	0.647
207.0	0.143	0.152	0.661
207.1	0.146	0.156	0.675
207.2	0.149	0.159	0.690
207.3	0.152	0.162	0.705
207.4	0.155	0.166	0.720
207.5	**0.158**	**0.169**	**0.736**

Summary for Pond 2P: Basin 2

Inflow Area = 1.060 ac, 66.04% Impervious, Inflow Depth = 7.02" for 100 Year event
Inflow = 6.4 cfs @ 12.20 hrs, Volume= 0.620 af
Outflow = 4.2 cfs @ 12.34 hrs, Volume= 0.620 af, Atten= 34%, Lag= 8.6 min
Discarded = 0.4 cfs @ 12.34 hrs, Volume= 0.229 af
Primary = 3.8 cfs @ 12.35 hrs, Volume= 0.391 af
Secondary = 0.0 cfs @ 0.00 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
Peak Elev= 203.0' @ 12.34 hrs Surf.Area= 0.051 ac Storage= 0.119 af

Plug-Flow detention time= 65.1 min calculated for 0.620 af (100% of inflow)
Center-of-Mass det. time= 65.3 min (856.4 - 791.0)

Volume	Invert	Avail.Storage	Storage Description
#1	199.0'	0.211 af	**Custom Stage Data (Irregular)** Listed below (Recalc)

Elevation (feet)	Surf.Area (acres)	Perim. (feet)	Inc.Store (acre-feet)	Cum.Store (acre-feet)	Wet.Area (acres)
199.0	0.013	118.0	0.000	0.000	0.013
200.0	0.020	160.0	0.016	0.016	0.035
201.0	0.028	200.8	0.024	0.040	0.062
202.0	0.038	242.0	0.033	0.073	0.095
203.0	0.050	283.0	0.044	0.117	0.135
204.0	0.064	310.0	0.057	0.174	0.165
204.5	0.086	329.0	0.037	0.211	0.188

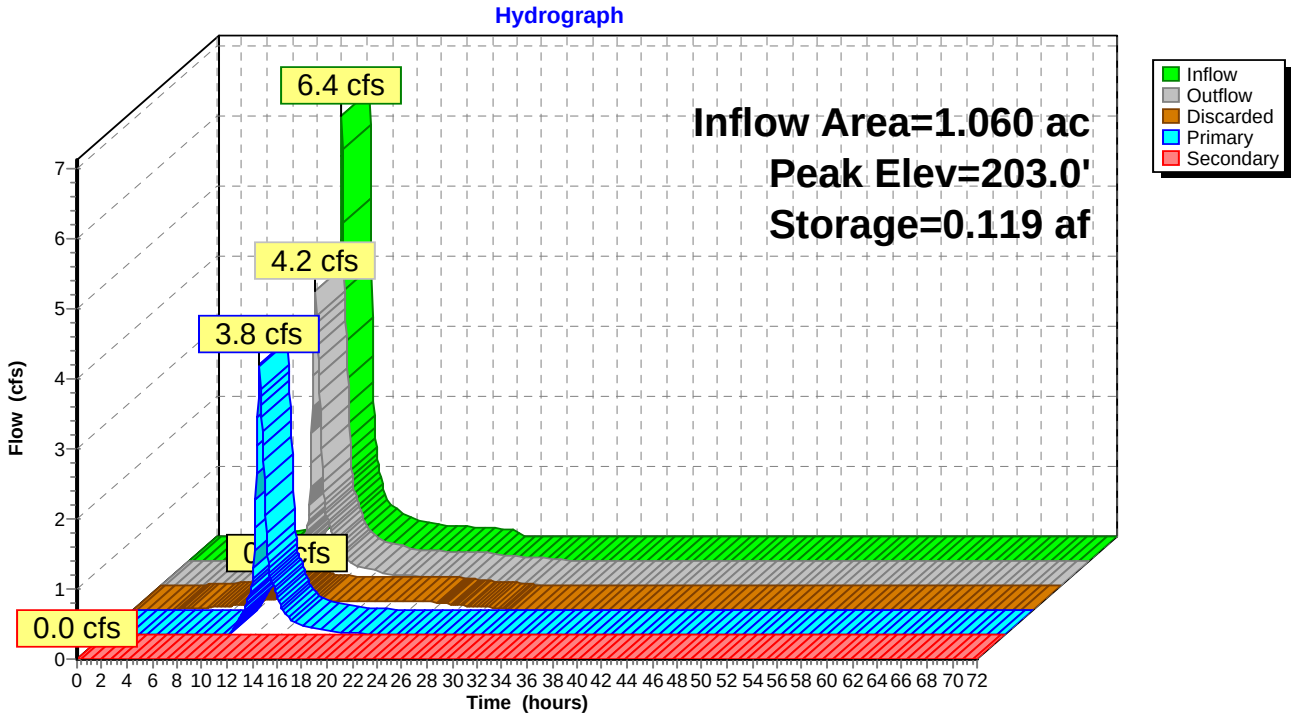
Device	Routing	Invert	Outlet Devices
#1	Device 4	203.0'	**24.0" x 36.0" Horiz. Orifice/Grate** C= 0.600 Limited to weir flow at low heads
#2	Discarded	199.0'	**2.000 in/hr Exfiltration over Wetted area** Conductivity to Groundwater Elevation = 194.0'
#3	Secondary	204.0'	**15.0' long x 6.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8 2.0 2.5 3.0 3.5 4.0 4.5 5.0 5.5 Coef. (English) 2.37 2.51 2.70 2.68 2.68 2.67 2.65 2.65 2.65 2.65 2.66 2.66 2.67 2.69 2.72 2.76 2.83
#4	Primary	199.9'	**12.0" Round Culvert** L= 8.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 199.9' / 199.1' S= 0.1000 '/' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.79 sf
#5	Device 4	200.6'	**6.0" Vert. Orifice/Grate** C= 0.600
#6	Primary	201.5'	**6.0" Vert. Orifice/Grate X 2.00** C= 0.600

Discarded OutFlow Max=0.4 cfs @ 12.34 hrs HW=203.0' (Free Discharge)
└**2=Exfiltration** (Controls 0.4 cfs)

Primary OutFlow Max=3.8 cfs @ 12.35 hrs HW=203.0' (Free Discharge)
└**4=Culvert** (Passes 1.6 cfs of 6.1 cfs potential flow)
└**1=Orifice/Grate** (Weir Controls 0.2 cfs @ 0.62 fps)
└**5=Orifice/Grate** (Orifice Controls 1.4 cfs @ 7.12 fps)
└**6=Orifice/Grate** (Orifice Controls 2.1 cfs @ 5.46 fps)

Secondary OutFlow Max=0.0 cfs @ 0.00 hrs HW=199.0' (Free Discharge)
└**3=Broad-Crested Rectangular Weir** (Controls 0.0 cfs)

Pond 2P: Basin 2



Stage-Area-Storage for Pond 2P: Basin 2

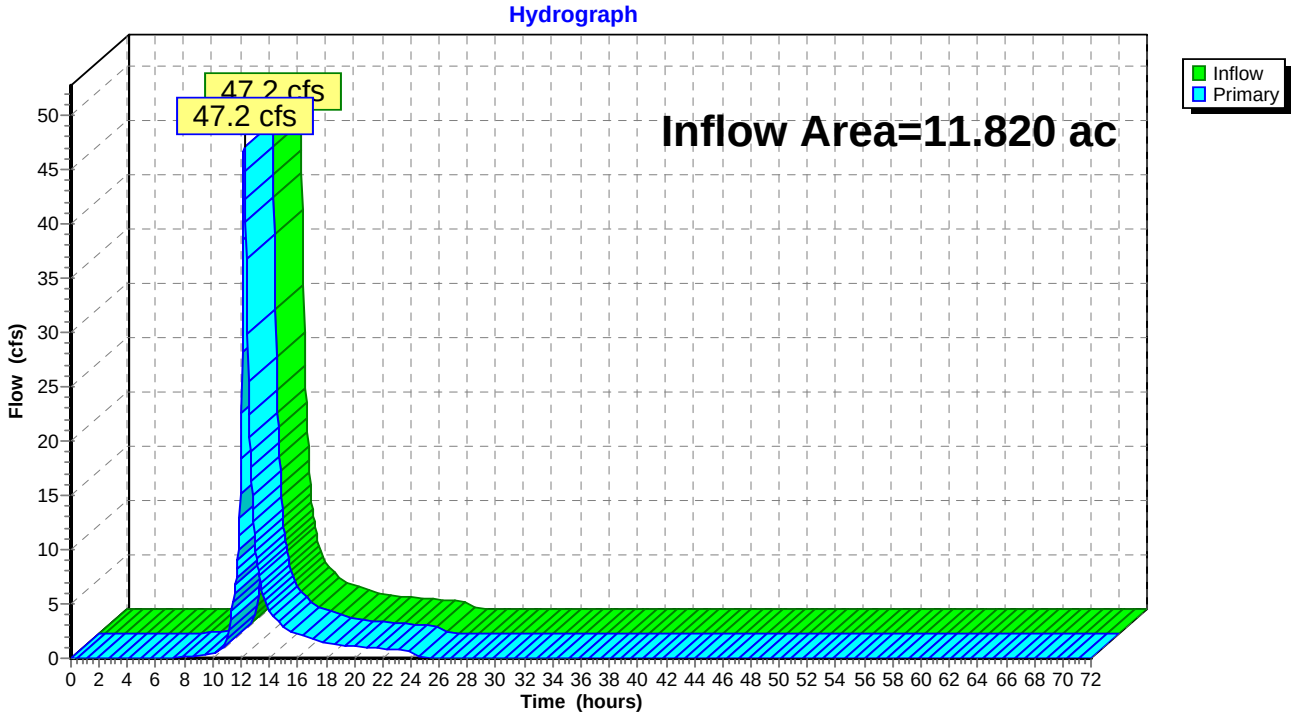
Elevation (feet)	Surface (acres)	Wetted (acres)	Storage (acre-feet)
199.0	0.013	0.013	0.000
199.1	0.014	0.015	0.001
199.2	0.014	0.017	0.003
199.3	0.015	0.019	0.004
199.4	0.016	0.021	0.006
199.5	0.016	0.023	0.007
199.6	0.017	0.025	0.009
199.7	0.018	0.027	0.011
199.8	0.018	0.030	0.013
199.9	0.019	0.032	0.014
200.0	0.020	0.035	0.016
200.1	0.021	0.037	0.018
200.2	0.021	0.040	0.021
200.3	0.022	0.042	0.023
200.4	0.023	0.045	0.025
200.5	0.024	0.047	0.027
200.6	0.025	0.050	0.030
200.7	0.025	0.053	0.032
200.8	0.026	0.056	0.035
200.9	0.027	0.059	0.038
201.0	0.028	0.062	0.040
201.1	0.029	0.065	0.043
201.2	0.030	0.068	0.046
201.3	0.031	0.071	0.049
201.4	0.032	0.075	0.052
201.5	0.033	0.078	0.055
201.6	0.034	0.081	0.059
201.7	0.035	0.085	0.062
201.8	0.036	0.088	0.066
201.9	0.037	0.092	0.069
202.0	0.038	0.095	0.073
202.1	0.039	0.099	0.077
202.2	0.040	0.103	0.081
202.3	0.041	0.107	0.085
202.4	0.043	0.111	0.089
202.5	0.044	0.115	0.094
202.6	0.045	0.119	0.098
202.7	0.046	0.123	0.103
202.8	0.047	0.127	0.107
202.9	0.049	0.131	0.112
203.0	0.050	0.135	0.117
203.1	0.051	0.138	0.122
203.2	0.053	0.141	0.127
203.3	0.054	0.144	0.133
203.4	0.055	0.147	0.138
203.5	0.057	0.150	0.144
203.6	0.058	0.153	0.149
203.7	0.060	0.156	0.155
203.8	0.061	0.159	0.161
203.9	0.063	0.162	0.168
204.0	0.064	0.165	0.174
204.1	0.068	0.170	0.180
204.2	0.072	0.174	0.187
204.3	0.077	0.179	0.195
204.4	0.081	0.183	0.203
204.5	**0.086**	**0.188**	**0.211**

Summary for Link 1L: To Off Site (North)

Inflow Area = 11.820 ac, 26.99% Impervious, Inflow Depth = 4.76" for 100 Year event
Inflow = 47.2 cfs @ 12.22 hrs, Volume= 4.684 af
Primary = 47.2 cfs @ 12.22 hrs, Volume= 4.684 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs

Link 1L: To Off Site (North)



WATER QUALITY VOLUME (WQV) COMPUTATIONS FOR OVERALL SITE

Project: Proposed Redevelopment
Location: 2135, 2145, 2155 Reservoir Ave - Trumbull, CT
Date: 10/31/25

Water Quality Volume Calculations:

$$WQV = \frac{(1.3")(R)(A)}{12}$$

Where:
WQV = water quality volume (ac-ft)
R = volumentric runoff coefficient = 0.05+0.009(I)
I = percent impervious cover (see below)
A = site area in acres

$$I = \frac{AIMP}{ATOT} \times 100$$

Where:
I = percent impervious cover
AIMP = area of impervious cover
ATOT = total area of watershed

Watershed Description:	OVERALL SITE			
Area of impervious coverage, AIMP	1.70	Acres		
Total area of watershed, ATOT	3.83	Acres		
Percent impverious cover, I	44.39	%		
Volumentric runoff coefficient, R	0.45			
Water Quality Volume, WQV	0.186	ac-ft	8,124	cf

WATER QUALITY VOLUME (WQV) COMPUTATIONS FOR HYD-1

Project: Proposed Redevelopment
Location: 2135, 2145, 2155 Reservoir Ave - Trumbull, CT
Date: 10/31/25

Water Quality Volume Calculations:

$$WQV = \frac{(1.3")(R)(A)}{12}$$

Where:
WQV = water quality volume (ac-ft)
R = volumentric runoff coefficient = 0.05+0.009(I)
I = percent impervious cover (see below)
A = site area in acres

$$I = \frac{AIMP}{ATOT} \times 100$$

Where:
I = percent impervious cover
AIMP = area of impervious cover
ATOT = total area of watershed

Watershed Description:	HYD-1		
Area of impervious coverage, AIMP	1.08	Acres	
Total area of watershed, ATOT	1.12	Acres	
Percent impverious cover, I	96.43	%	
Volumentric runoff coefficient, R	0.92		
Water Quality Volume, WQV	0.111	ac-ft	4,851 cf

Water Quality Flow Calculations:

WQf = (qu)(A)(Q)
WQf = Peak Discharge for water quality event (cfs)
qu = unit peak discharge (cfs/mi2/in)
A = drainage area (square miles)
Q = runoff volume (WQv/A) (watershed inches)

CN = 1000 /[10 + 5*P +10*Q - 10*(Q2 +1.25*Q*P)1/2]

P=	1.3	inches
Q=	1.193	inches
WQv =	0.111	acre-ft
Total Drainage Area =	1.12	acre
CN =	97.00	

Ia = 200/CN -2

Ia = 0.062

Compute Ia/P

P=	1.3	inches
Ia / P =	0.05	

Tc= 6 min
0.100 hr

Exhibit 4-III

Tc=	0.100
Ia / P =	0.05
qu =	650

WQf = (qu)(A)(Q)

qu =	650	csm/in
A =	0.002	mi2 (acre/640)
Q =	1.193	inches
WQf =	1.36	cfs

WQF Provided:
First Defense FDHC-4 Max. Treatment Rate = 1.50 cfs

WATER QUALITY VOLUME (WQV) COMPUTATIONS FOR HYD-2

Project: Proposed Redevelopment
Location: 2135, 2145, 2155 Reservoir Ave - Trumbull, CT
Date: 10/31/25

Water Quality Volume Calculations:

$$WQV = \frac{(1.3")(R)(A)}{12}$$

Where:
WQV = water quality volume (ac-ft)
R = volumentric runoff coefficient = 0.05+0.009(I)
I = percent impervious cover (see below)
A = site area in acres

$$I = \frac{AIMP}{ATOT} \times 100$$

Where:
I = percent impervious cover
AIMP = area of impervious cover
ATOT = total area of watershed

Watershed Description:	HYD-2		
Area of impervious coverage, AIMP	0.87	Acres	
Total area of watershed, ATOT	1.15	Acres	
Percent impverious cover, I	75.65	%	
Volumentric runoff coefficient, R	0.73		
Water Quality Volume, WQV	0.091	ac-ft	3,966 cf

Water Quality Flow Calculations:

WQf = (qu)(A)(Q)
WQf = Peak Discharge for water quality event (cfs)
qu = unit peak discharge (cfs/mi2/in)
A = drainage area (square miles)
Q = runoff volume (WQv/A) (watershed inches)

CN = 1000 /[10 + 5*P +10*Q - 10*(Q2 +1.25*Q*P)1/2]

P=	1.3	inches
Q=	0.950	inches
WQv =	0.091	acre-ft
Total Drainage Area =	1.15	acre
CN =	88.00	

Ia = 200/CN -2

Ia =	0.273	

Compute Ia/P

P=	1.3	inches
Ia / P =	0.21	

Tc= 6 min
0.100 hr

Exhibit 4-III

Tc=	0.100
Ia / P =	0.21
qu =	625

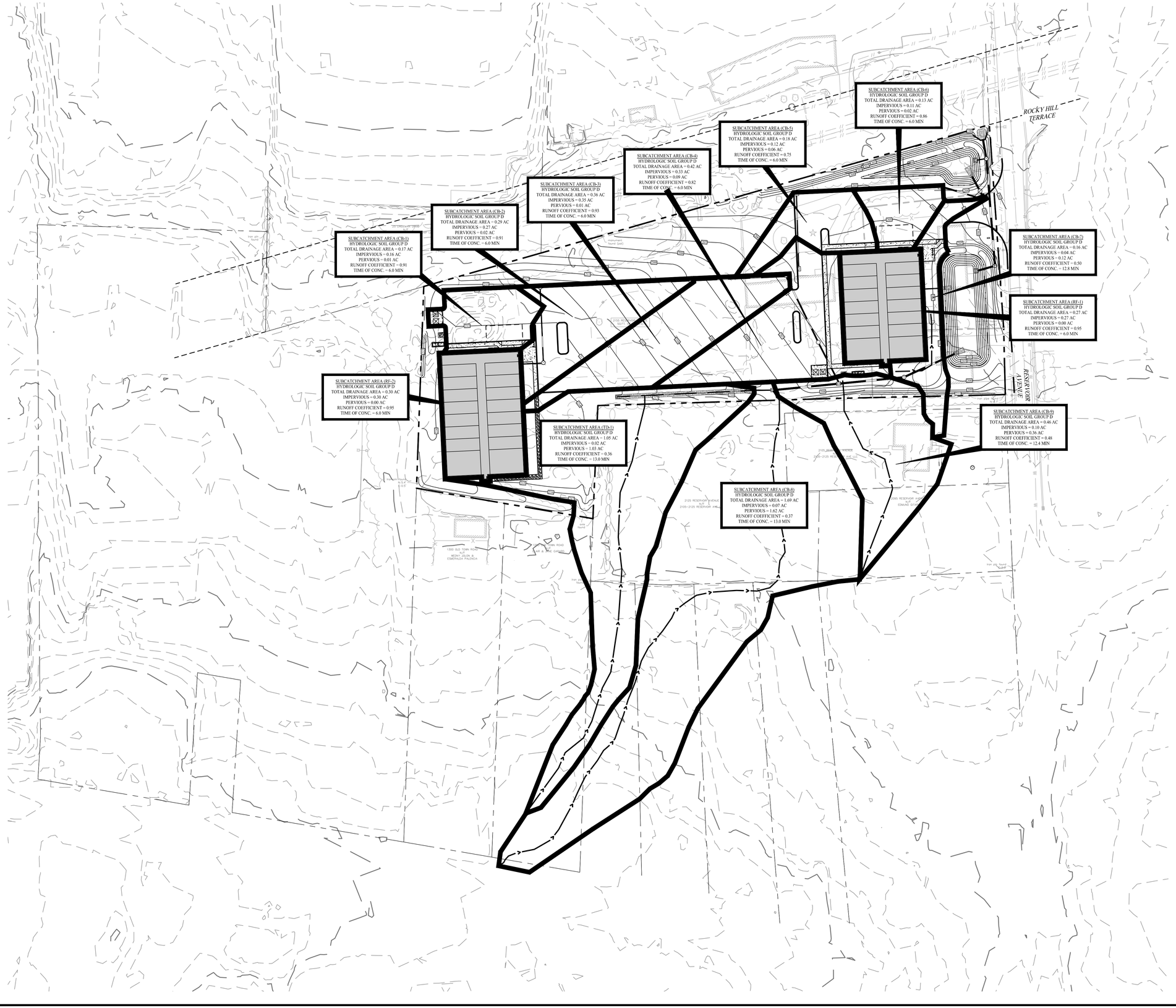
WQf = (qu)(A)(Q)

qu =	625	csm/in
A =	0.002	mi2 (acre/640)
Q =	0.950	inches
WQf =	1.07	cfs

WQF Provided:
First Defense FDHC-4 Max. Treatment Rate = 1.50 cfs

APPENDIX C
STORM DRAINAGE SYSTEM CALCULATIONS

Subcatchment Drainage Area Map (DA-CB)
Storm Sewer Schematic
Hydraflow Storm Sewer Tabular Reports
Hydraflow Storm Sewer Profiles
Runoff Coefficient Calculations
Hydrodynamic Separator Information



GENERAL NOTES

1. EXISTING BOUNDARY AND TOPOGRAPHY IS BASED ON DRAWING TITLED "PROPERTY SURVEY OF 2135, 2145 & 2155 RESERVOIR AVENUE TRUMBULL CONNECTICUT", SCALE 1"=30', DATED JULY 24, 2025, BY ACCURATE LAND SURVEYING LLC.
2. STORMWATER RUNOFF ANALYSIS WAS CALCULATED USING THE SCS TR-55 METHODOLOGY.
3. OFF-SITE TOPOGRAPHY DATA IS BASED ON CTECO MAP READER TOWN OF TRUMBULL, CT.
4. CT ECO AND SURVEY CONTOURS HAVE BEEN ADJUSTED TO ALIGN SMOOTHLY, AND MAY NOT BE PERFECTLY ACCURATE.

LEGEND

- PROPERTY LINE
- ADJOINING LOT LINE
- LIMIT OF DRAINAGE AREA
- FLOW PATH

Rev. #:	Date	Description

Graphic Scale: 50 0 50 100

SOLLI ENGINEERING
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Drawn By:	MJD
Checked By:	LAM
Approved By:	KMS
Project #:	24116901
Plan Date:	11/07/25
Scale:	1" = 50'

Kevin Solli, P.E.
CT 25759

Project:

PROPOSED REDEVELOPMENT

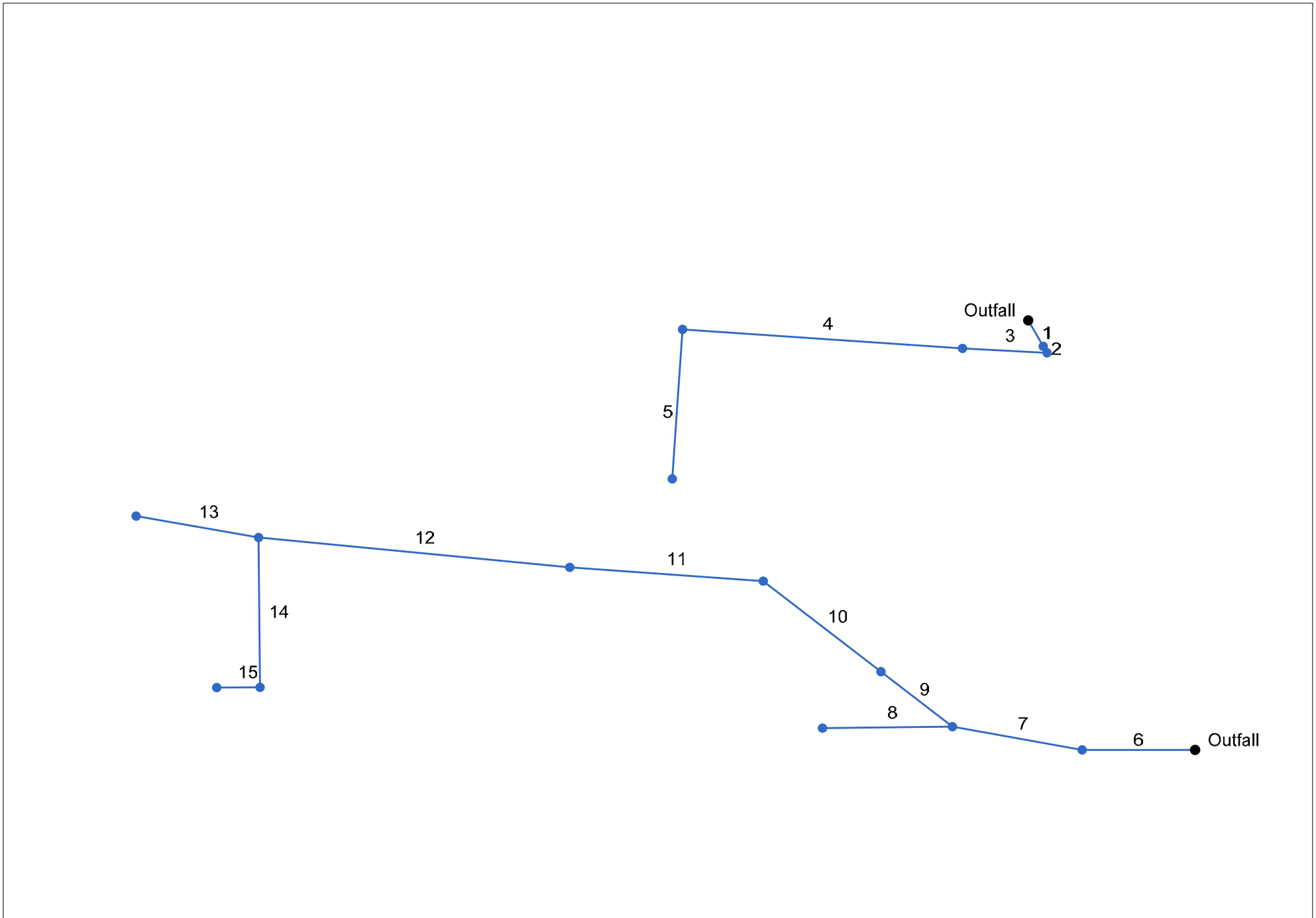
2135, 2145, & 2155 RESERVOIR AVENUE
TRUMBULL, CONNECTICUT

Sheet Title: DRAINAGE AREA CATCH BASIN MAP

Sheet #: DACB

Nov 07, 2025 - 12:27pm droosemark
X:\SE Files\Project Data\2024\24116901 - 2135, 2145, 2155 Reservoir Ave - Trumbull, CT\Engineering Data\CAD Files\24116901 - DACB.dwg

Reservoir Ave, Trumbull, CT



Project File: 2135, 2145, 2155 Reservoir Ave - Trumbull, CT - StormSewers.stm	Number of lines: 15	Date: 11/5/2025

Storm Sewer Inventory Report

Line No.	Alignment				Flow Data				Physical Data								Line ID
	Dnstr Line No.	Line Length (ft)	Defl angle (deg)	Junc Type	Known Q (cfs)	Drng Area (ac)	Runoff Coeff (C)	Inlet Time (min)	Invert El Dn (ft)	Line Slope (%)	Invert El Up (ft)	Line Size (in)	Line Shape	N Value (n)	J-Loss Coeff (K)	Inlet/ Rim El (ft)	
1	End	16.000	0.000	MH	0.00	0.00	0.00	0.0	199.30	0.62	199.40	24	Cir	0.013	0.15	203.50	HYD-2
2	1	4.000	-0.475	Comb	0.00	0.16	0.50	12.8	199.40	2.50	199.50	24	Cir	0.013	1.50	202.00	CB-7
3	2	45.000	123.482	Comb	0.00	0.12	0.86	6.0	199.50	1.11	200.00	18	Cir	0.013	0.50	203.50	CB-6
4	3	149.000	0.899	Comb	0.00	0.18	0.75	6.0	200.00	1.01	201.50	15	Cir	0.013	1.50	204.00	CB-5
5	4	80.000	-90.000	Comb	0.00	0.42	0.82	6.0	201.50	0.75	202.10	12	Cir	0.013	1.00	205.10	CB-4
6	End	60.000	0.000	MH	0.00	0.00	0.00	0.0	201.00	1.00	201.60	24	Cir	0.013	0.21	206.60	MH-3
7	6	70.000	10.204	DrGrt	0.00	0.46	0.48	12.4	201.60	0.43	201.90	24	Cir	0.013	0.78	207.00	CB-9
8	7	69.000	-10.847	DrGrt	0.00	1.69	0.37	13.0	201.90	4.93	205.30	15	Cir	0.013	1.00	208.40	CB-8
9	7	48.000	27.506	MH	0.00	0.00	0.00	0.0	201.90	0.63	202.20	18	Cir	0.013	0.15	206.10	HYD-1
10	9	79.000	0.000	Comb	0.00	0.36	0.93	6.0	202.20	0.76	202.80	18	Cir	0.013	0.91	205.80	CB-3
11	10	103.000	-33.613	Comb	0.00	0.29	0.91	6.0	202.80	2.62	205.50	15	Cir	0.013	0.50	208.50	CB-2
12	11	166.000	1.412	MH	0.00	0.00	0.00	0.0	205.50	1.69	208.30	15	Cir	0.013	1.00	212.20	MH-2
13	12	66.000	4.459	Comb	0.00	0.17	0.91	6.0	208.30	1.06	209.00	15	Cir	0.013	1.00	212.00	CB-1
14	12	80.000	-96.072	MH	0.00	0.00	0.00	0.0	208.30	1.50	209.50	12	Cir	0.013	1.00	213.50	MH-1
15	14	23.000	90.321	DrGrt	0.00	0.30	0.95	6.0	209.50	2.17	210.00	12	Cir	0.013	1.00	273.00	RF-2

Reservoir Ave, Trumbull, CT | Number of lines: 15 | Date: 11/5/2025

Structure Report

Struct No.	Structure ID	Junction Type	Rim Elev (ft)	Structure			Line Out			Line In		
				Shape	Length (ft)	Width (ft)	Size (in)	Shape	Invert (ft)	Size (in)	Shape	Invert (ft)
1		Manhole	203.50	Cir	4.00	4.00	24	Cir	199.40	24	Cir	199.40
2		Combination	202.00	Cir	4.00	4.00	24	Cir	199.50	18	Cir	199.50
3		Combination	203.50	Cir	4.00	4.00	18	Cir	200.00	15	Cir	200.00
4	New	Combination	204.00	Cir	4.00	4.00	15	Cir	201.50	12	Cir	201.50
5		Combination	205.10	Cir	4.00	4.00	12	Cir	202.10			
6		Manhole	206.60	Cir	4.00	4.00	24	Cir	201.60	24	Cir	201.60
7		DropGrate	207.00	Cir	4.00	4.00	24	Cir	201.90	15 18	Cir Cir	201.90 201.90
8		DropGrate	208.40	Cir	4.00	4.00	15	Cir	205.30			
9	New	Manhole	206.10	Cir	4.00	4.00	18	Cir	202.20	18	Cir	202.20
10		Combination	205.80	Cir	4.00	4.00	18	Cir	202.80	15	Cir	202.80
11		Combination	208.50	Cir	4.00	4.00	15	Cir	205.50	15	Cir	205.50
12		Manhole	212.20	Cir	4.00	4.00	15	Cir	208.30	15 12	Cir Cir	208.30 208.30
13		Combination	212.00	Cir	4.00	4.00	15	Cir	209.00			
14		Manhole	213.50	Cir	4.00	4.00	12	Cir	209.50	12	Cir	209.50
15		DropGrate	273.00	Cir	4.00	4.00	12	Cir	210.00			

Storm Sewer Tabulation

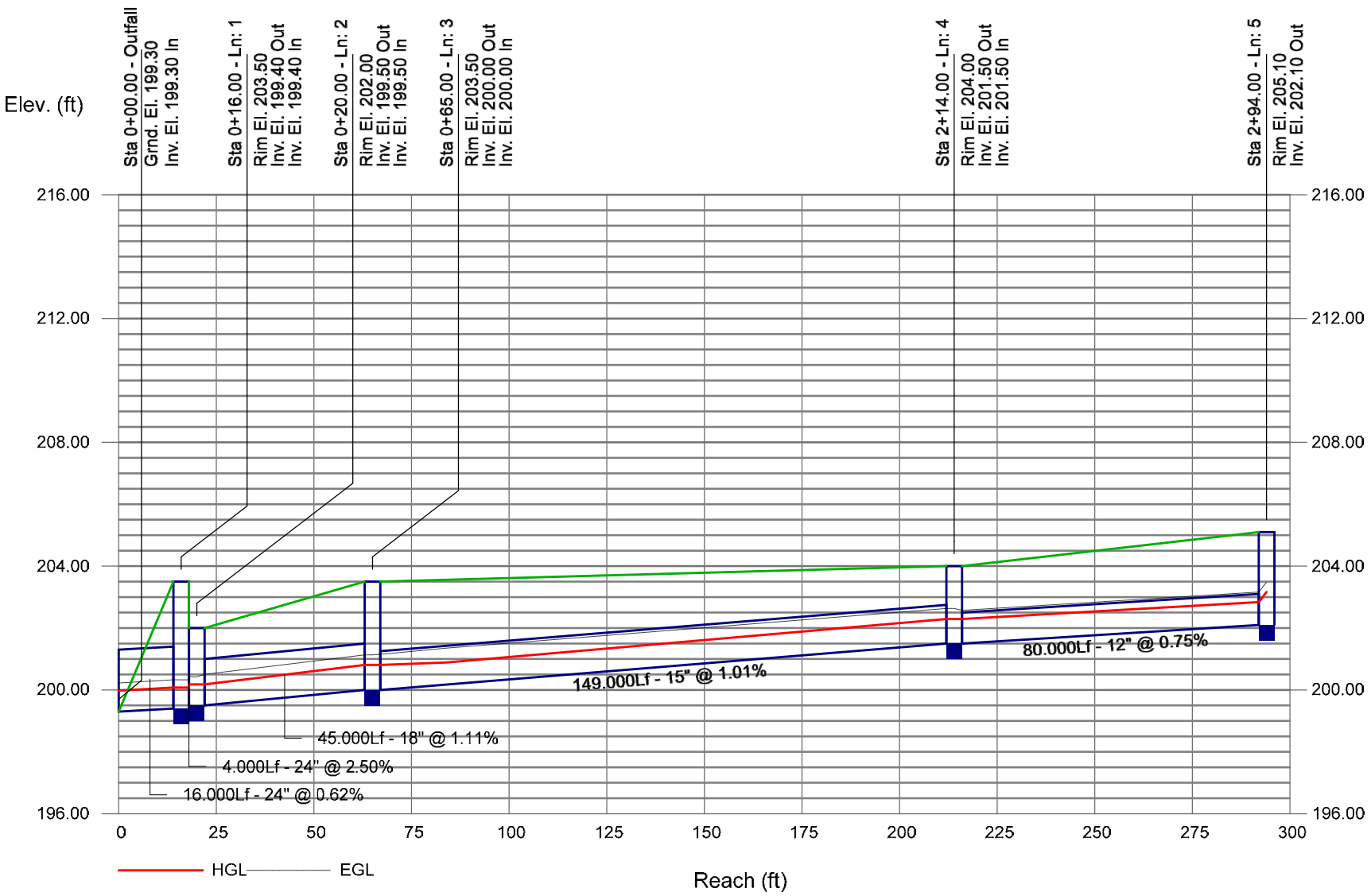
Station		Len	Drng Area		Rnoff coeff	Area x C		Tc		Rain (I)	Total flow	Cap full	Vel	Pipe		Invert Elev		HGL Elev		Grnd / Rim Elev		Line ID
Line	To Line	(ft)	Incr (ac)	Total (ac)	(C)	Incr	Total	Inlet (min)	Syst (min)	(in/hr)	(cfs)	(cfs)	(ft/s)	Size (in)	Slope (%)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	
1	End	16.000	0.00	0.88	0.00	0.00	0.66	0.0	12.9	5.6	3.74	17.88	4.00	24	0.62	199.30	199.40	199.98	200.08	199.30	203.50	HYD-2
2	1	4.000	0.16	0.88	0.50	0.08	0.66	12.8	12.8	5.7	3.75	35.76	4.00	24	2.50	199.40	199.50	200.08	200.18	203.50	202.00	CB-7
3	2	45.000	0.12	0.72	0.86	0.10	0.58	6.0	7.2	7.6	4.42	11.07	5.14	18	1.11	199.50	200.00	200.18	200.81	202.00	203.50	CB-6
4	3	149.000	0.18	0.60	0.75	0.14	0.48	6.0	6.4	8.0	3.84	6.48	4.64	15	1.01	200.00	201.50	200.81	202.29	203.50	204.00	CB-5
5	4	80.000	0.42	0.42	0.82	0.34	0.34	6.0	6.0	8.2	2.83	3.08	4.41	12	0.75	201.50	202.10	202.29	202.84	204.00	205.10	CB-4
6	End	60.000	0.00	3.27	0.00	0.00	1.88	0.0	13.8	5.4	10.26	22.62	5.51	24	1.00	201.00	201.60	202.15	202.75	201.00	206.60	MH-3
7	6	70.000	0.46	3.27	0.48	0.22	1.88	12.4	13.4	5.5	10.41	14.81	5.10	24	0.43	201.60	201.90	202.84	203.14	206.60	207.00	CB-9
8	7	69.000	1.69	1.69	0.37	0.63	0.63	13.0	13.0	5.6	3.51	14.33	3.69	15	4.93	201.90	205.30	203.45	206.06	207.00	208.40	CB-8
9	7	48.000	0.00	1.12	0.00	0.00	1.04	0.0	8.8	6.9	7.16	8.30	4.07	18	0.63	201.90	202.20	203.45	203.66	207.00	206.10	HYD-1
10	9	79.000	0.36	1.12	0.93	0.33	1.04	6.0	8.4	7.0	7.29	9.15	4.84	18	0.76	202.20	202.80	203.70	203.84	206.10	205.80	CB-3
11	10	103.000	0.29	0.76	0.91	0.26	0.70	6.0	8.0	7.2	5.06	10.46	4.95	15	2.62	202.80	205.50	203.84	206.41	205.80	208.50	CB-2
12	11	166.000	0.00	0.47	0.00	0.00	0.44	0.0	7.1	7.6	3.36	8.39	3.98	15	1.69	205.50	208.30	206.41	209.04	208.50	212.20	MH-2
13	12	66.000	0.17	0.17	0.91	0.15	0.15	6.0	6.0	8.2	1.27	6.65	2.47	15	1.06	208.30	209.00	209.04	209.44	212.20	212.00	CB-1
14	12	80.000	0.00	0.30	0.00	0.00	0.29	0.0	6.1	8.2	2.32	4.36	4.01	12	1.50	208.30	209.50	209.04	210.15	212.20	213.50	MH-1
15	14	23.000	0.30	0.30	0.95	0.29	0.29	6.0	6.0	8.2	2.34	5.25	4.31	12	2.17	209.50	210.00	210.15	210.65	213.50	273.00	RF-2

Reservoir Ave, Trumbull, CT | Number of lines: 15 | Run Date: 11/5/2025

NOTES:Intensity = 39.06 / (Inlet time + 3.50) ^ 0.69; Return period =Yrs. 25 ; c = cir e = ellip b = box

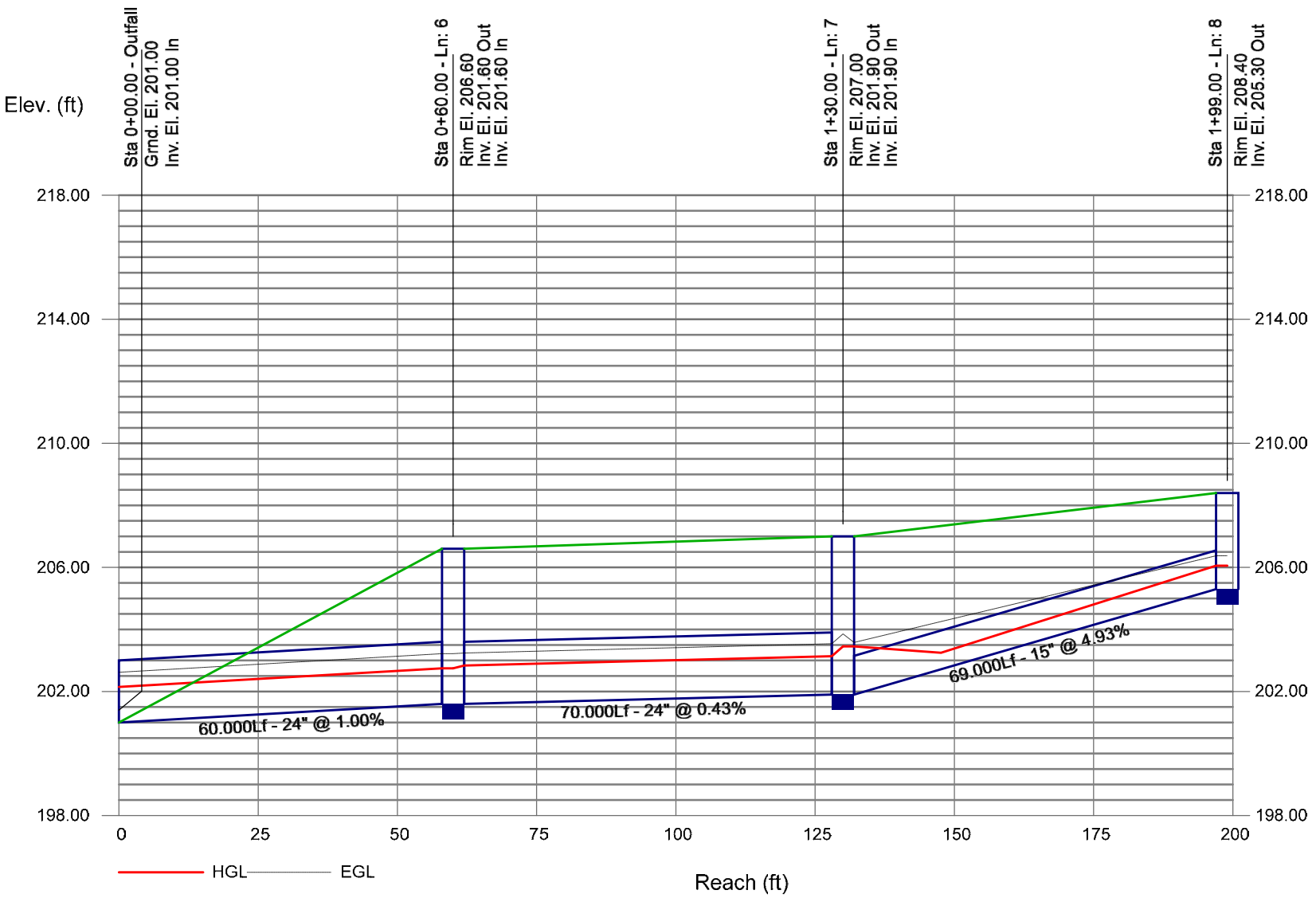
Storm Sewer Profile

Proj. file: 2135, 2145, 2155 Reservoir Ave - Trumbull, CT - StormSewers.stm

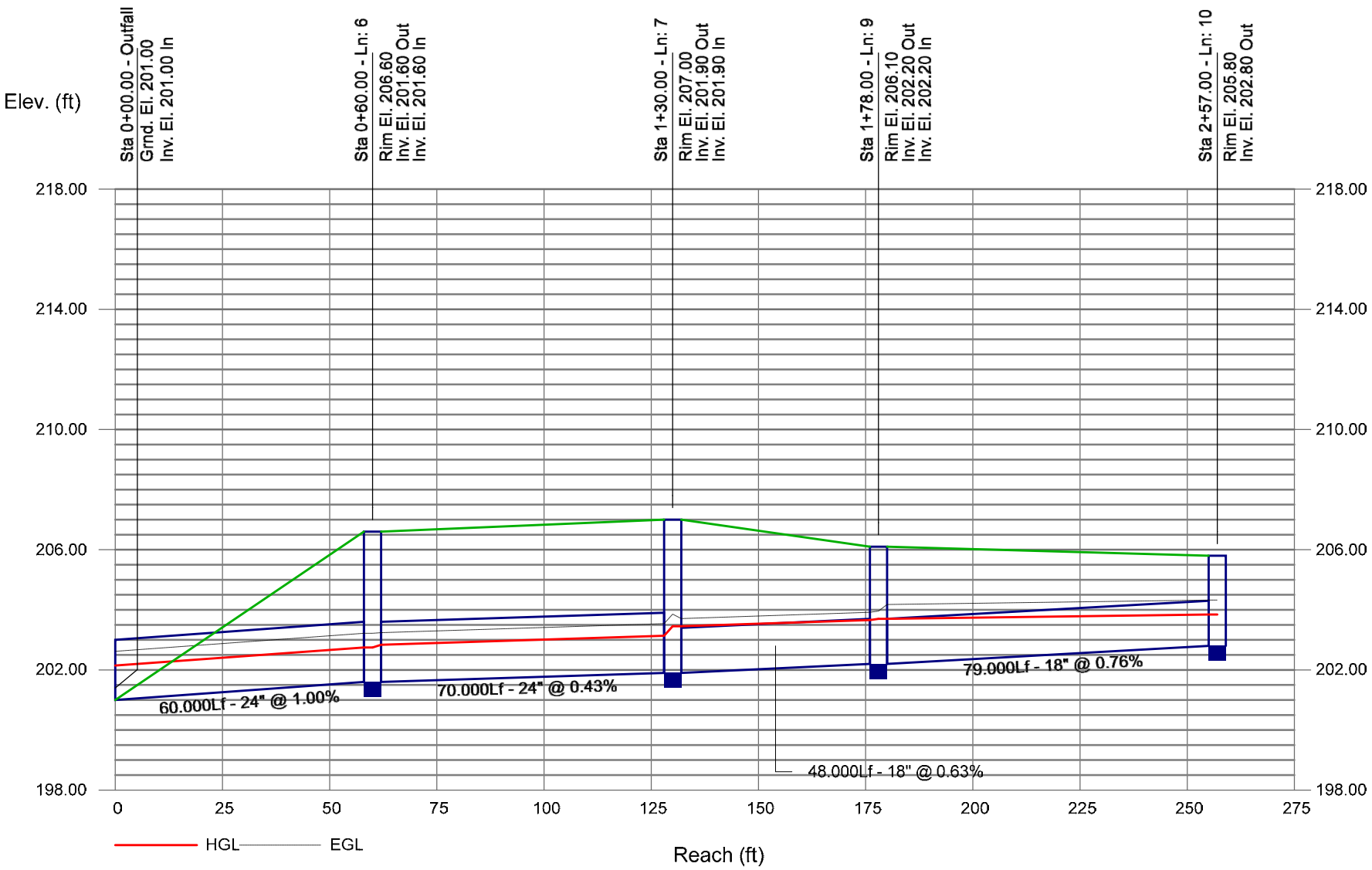


Storm Sewer Profile

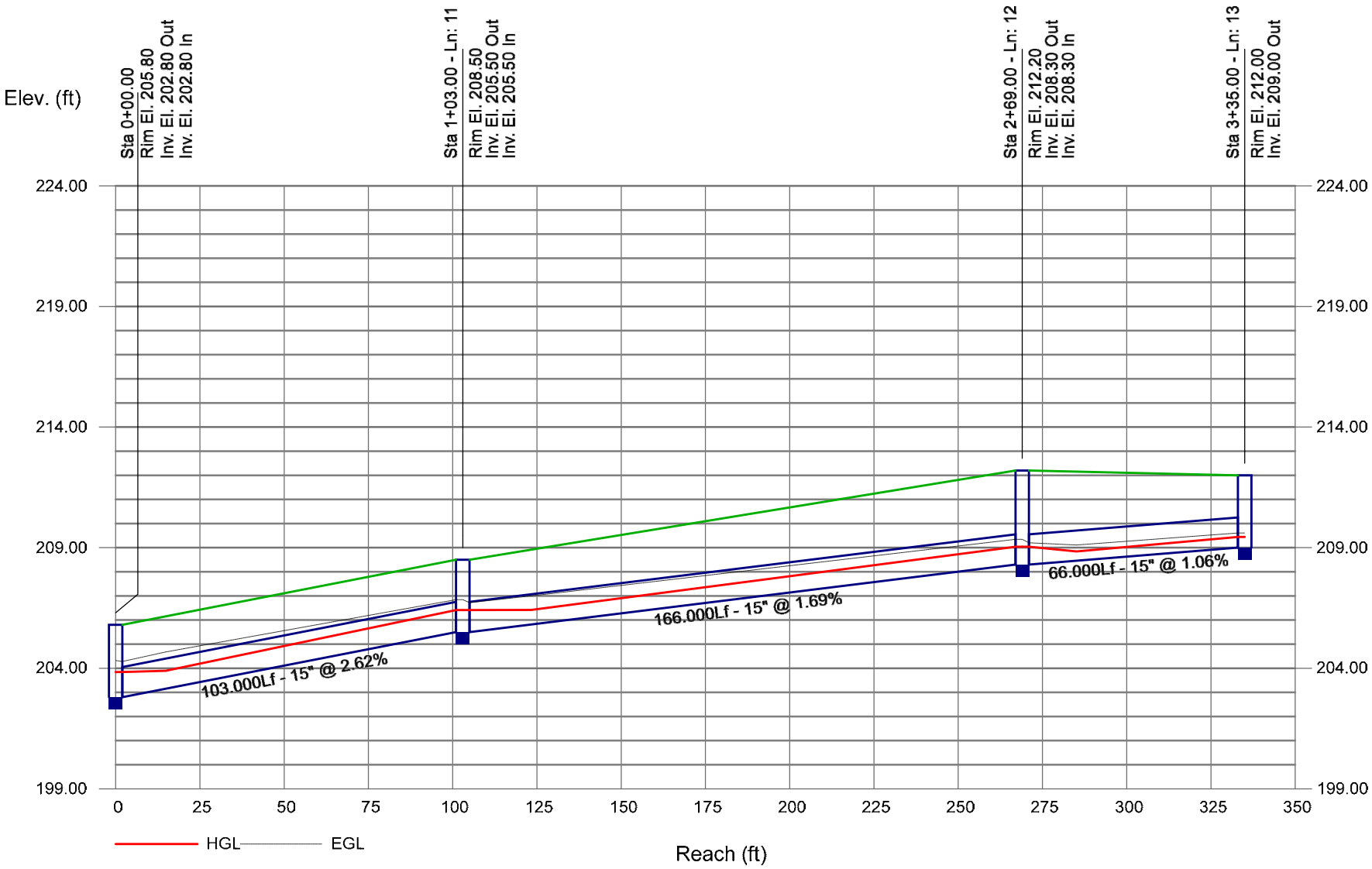
Proj. file: 2135, 2145, 2155 Reservoir Ave - Trumbull, CT - StormSewers.stm



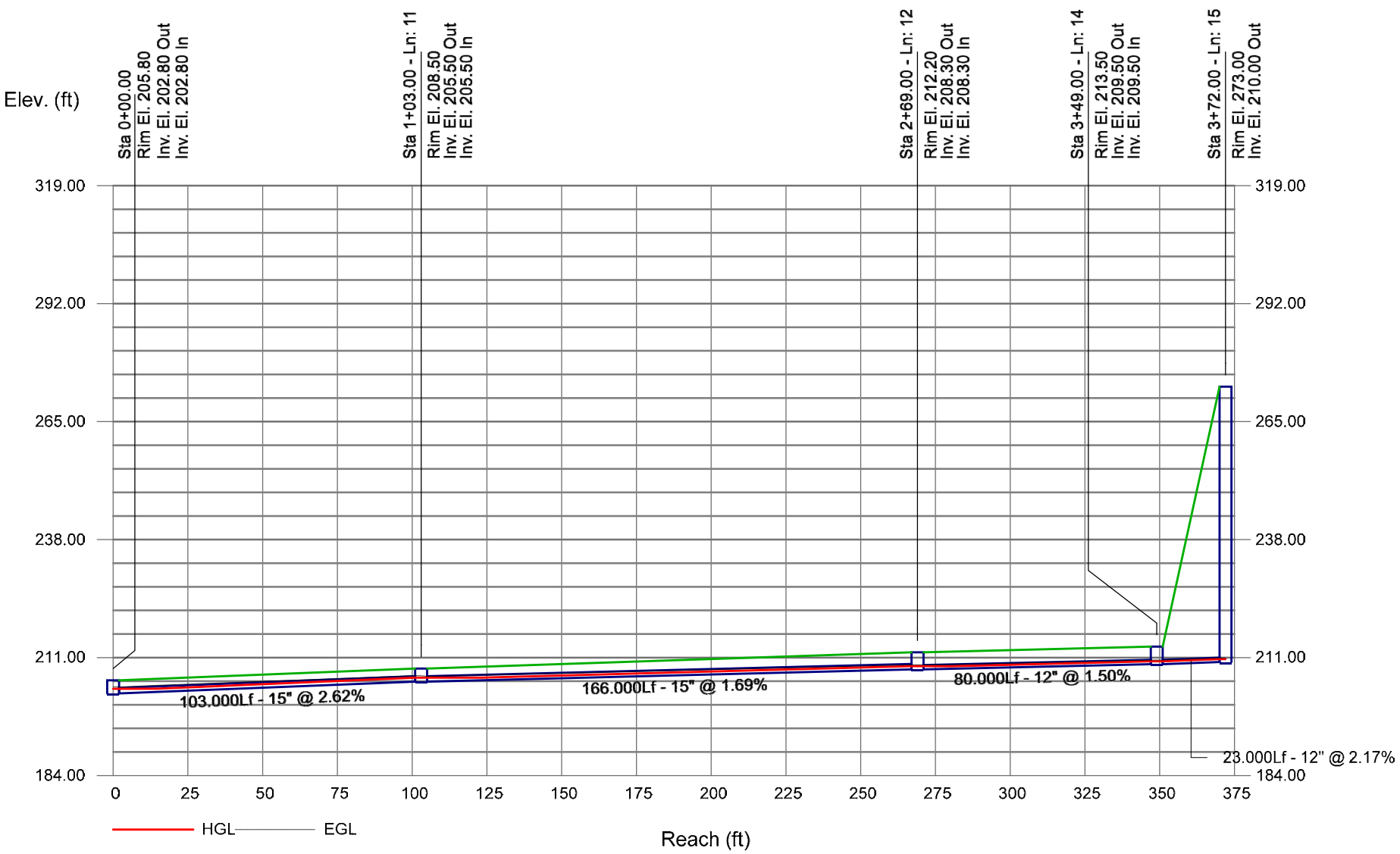
Storm Sewer Profile



Storm Sewer Profile



Storm Sewer Profile



Project **Proposed Development** By **MJD** Date **10/31/25**

Location **2135, 2145, 2155 Reservoir Ave, Trumbull, CT** Checked **LAM** Date **10/31/25**

Site Status: Developed **Partially Developed** **CB-1**

1. Runoff Coefficient ©

Soil Name and hydrologic group (Appendix A)	Cover description (cover type, treatment, and hydrologic condition; percent impervious; unconnected/connected impervious area ratio)	C [1]			Area [x] acres [ ] mi^2 [ ] %	Product of C x area
D	Impervious	0.95			0.16	0.15
D	Pervious	0.35			0.01	0.00
1 Use only one C source per line				Totals =	0.17	0.16

CN (weighted) = $\frac{\text{total product}}{\text{total area}} = \frac{0.16}{0.17} =$ 0.91 Use C = **0.91**

Project **Proposed Development** By **MJD** Date **10/31/25**

Location **2135, 2145, 2155 Reservoir Ave, Trumbull, CT** Checked **LAM** Date **10/31/25**

Site Status: Developed **Partially Developed** **CB-2**

1. Runoff Coefficient ©

Soil Name and hydrologic group (Appendix A)	Cover description (cover type, treatment, and hydrologic condition; percent impervious; unconnected/connected impervious area ratio)	C [1]			Area [x] acres [ ] mi^2 [ ] %	Product of C x area
D	Impervious	0.95			0.27	0.26
D	Pervious	0.35			0.02	0.01
1 Use only one C source per line			Totals =		0.29	0.26

CN (weighted) = $\frac{\text{total product}}{\text{total area}} = \frac{0.26}{0.29} =$ 0.91 Use C = **0.91**

Project **Proposed Development** By **MJD** Date **10/31/25**

Location **2135, 2145, 2155 Reservoir Ave, Trumbull, CT** Checked **LAM** Date **10/31/25**

Site Status: Developed **Partially Developed** **CB-3**

1. Runoff Coefficient ©

Soil Name and hydrologic group (Appendix A)	Cover description (cover type, treatment, and hydrologic condition; percent impervious; unconnected/connected impervious area ratio)	C [1]			Area [x] acres [ ] mi^2 [ ] %	Product of C x area
D	Impervious	0.95			0.35	0.33
D	Pervious	0.35			0.01	0.00
1 Use only one C source per line				Totals =	0.36	0.34

CN (weighted) = $\frac{\text{total product}}{\text{total area}} = \frac{0.34}{0.36} =$ 0.93 Use C = **0.93**

Project **Proposed Development** By **MJD** Date **10/31/25**

Location **2135, 2145, 2155 Reservoir Ave, Trumbull, CT** Checked **LAM** Date **10/31/25**

Site Status: Developed **Partially Developed** **CB-4**

1. Runoff Coefficient ©

Soil Name and hydrologic group (Appendix A)	Cover description (cover type, treatment, and hydrologic condition; percent impervious; unconnected/connected impervious area ratio)	C [1]			Area [x] acres [ ] mi^2 [ ] %	Product of C x area
D	Impervious	0.95			0.33	0.31
D	Pervious	0.35			0.09	0.03
1 Use only one C source per line				Totals =	0.42	0.35

CN (weighted) = $\frac{\text{total product}}{\text{total area}} = \frac{0.35}{0.42} =$ 0.82 Use C = **0.82**

Project **Proposed Development** By **MJD** Date **10/31/25**

Location **2135, 2145, 2155 Reservoir Ave, Trumbull, CT** Checked **LAM** Date **10/31/25**

Site Status: Developed **Partially Developed** **CB-5**

1. Runoff Coefficient ©

Soil Name and hydrologic group (Appendix A)	Cover description (cover type, treatment, and hydrologic condition; percent impervious; unconnected/connected impervious area ratio)	C [1]			Area [x] acres [ ] mi^2 [ ] %	Product of C x area
D	Impervious	0.95			0.12	0.11
D	Pervious	0.35			0.06	0.02
1 Use only one C source per line				Totals =	0.18	0.14

CN (weighted) = $\frac{\text{total product}}{\text{total area}} = \frac{0.14}{0.18} =$ 0.75 Use C = **0.75**

Project **Proposed Development** By **MJD** Date **10/31/25**

Location **2135, 2145, 2155 Reservoir Ave, Trumbull, CT** Checked **LAM** Date **10/31/25**

Site Status: Developed **Partially Developed** **CB-6**

1. Runoff Coefficient ©

Soil Name and hydrologic group (Appendix A)	Cover description (cover type, treatment, and hydrologic condition; percent impervious; unconnected/connected impervious area ratio)	C [1]			Area [x] acres [ ] mi^2 [ ] %	Product of C x area
D	Impervious	0.95			0.11	0.10
D	Pervious	0.35			0.02	0.01
1 Use only one C source per line				Totals =	0.13	0.11

CN (weighted) = $\frac{\text{total product}}{\text{total area}} = \frac{0.11}{0.13} =$ 0.86 Use C = **0.86**

Project **Proposed Development** By **MJD** Date **10/31/25**

Location **2135, 2145, 2155 Reservoir Ave, Trumbull, CT** Checked **LAM** Date **10/31/25**

Site Status: Developed **Partially Developed** **CB-7**

1. Runoff Coefficient ©

Soil Name and hydrologic group (Appendix A)	Cover description (cover type, treatment, and hydrologic condition; percent impervious; unconnected/connected impervious area ratio)	C [1]			Area [x] acres [ ] mi^2 [ ] %	Product of C x area
D	Impervious	0.95			0.04	0.04
D	Pervious	0.35			0.12	0.04
1 Use only one C source per line				Totals =	0.16	0.08

CN (weighted) = $\frac{\text{total product}}{\text{total area}} = \frac{0.08}{0.16} =$ 0.50 Use C = **0.50**

Project **Proposed Development** By **MJD** Date **10/31/25**

Location **2135, 2145, 2155 Reservoir Ave, Trumbull, CT** Checked **LAM** Date **10/31/25**

Site Status: Developed **Partially Developed** **CB-8**

1. Runoff Coefficient ©

Soil Name and hydrologic group (Appendix A)	Cover description (cover type, treatment, and hydrologic condition; percent impervious; unconnected/connected impervious area ratio)	C [1]			Area [x] acres [ ] mi^2 [ ] %	Product of C x area
D	Impervious	0.95			0.07	0.07
D	Pervious	0.35			1.62	0.57
1 Use only one C source per line				Totals =	1.69	0.63

CN (weighted) = $\frac{\text{total product}}{\text{total area}} = \frac{0.63}{1.69} =$ 0.37 Use C = **0.37**

Project **Proposed Development** By **MJD** Date **10/31/25**

Location **2135, 2145, 2155 Reservoir Ave, Trumbull, CT** Checked **LAM** Date **10/31/25**

Site Status: Developed **Partially Developed** **CB-9**

1. Runoff Coefficient ©

Soil Name and hydrologic group (Appendix A)	Cover description (cover type, treatment, and hydrologic condition; percent impervious; unconnected/connected impervious area ratio)	C [1]			Area [x] acres [ ] mi^2 [ ] %	Product of C x area
D	Impervious	0.95			0.10	0.10
D	Pervious	0.35			0.36	0.13
1 Use only one C source per line				Totals =	0.46	0.22

CN (weighted) = $\frac{\text{total product}}{\text{total area}} = \frac{0.22}{0.46} =$ 0.48 Use C = **0.48**

Project **Proposed Development** By **MJD** Date **10/31/25**

Location **2135, 2145, 2155 Reservoir Ave, Trumbull, CT** Checked **LAM** Date **10/31/25**

Site Status: Developed **Partially Developed** **TD-1**

1. Runoff Coefficient ©

Soil Name and hydrologic group (Appendix A)	Cover description (cover type, treatment, and hydrologic condition; percent impervious; unconnected/connected impervious area ratio)	C [1]			Area [x] acres [ ] mi^2 [ ] %	Product of C x area
D	Impervious	0.95			0.02	0.02
D	Pervious	0.35			1.03	0.36
1 Use only one C source per line				Totals =	1.05	0.38

CN (weighted) = $\frac{\text{total product}}{\text{total area}} = \frac{0.38}{1.05} =$ 0.36 Use C = **0.36**

Project **Proposed Development** By **MJD** Date **10/31/25**

Location **2135, 2145, 2155 Reservoir Ave, Trumbull, CT** Checked **LAM** Date **10/31/25**

Site Status: Developed **Partially Developed** **RF-1**

1. Runoff Coefficient ©

Soil Name and hydrologic group (Appendix A)	Cover description (cover type, treatment, and hydrologic condition; percent impervious; unconnected/connected impervious area ratio)	C [1]			Area [x] acres [ ] mi^2 [ ] %	Product of C x area
D	Impervious	0.95			0.27	0.26
D	Pervious	0.35			0.00	0.00
1 Use only one C source per line				Totals =	0.27	0.26

CN (weighted) = $\frac{\text{total product}}{\text{total area}} = \frac{0.26}{0.27} =$ 0.95 Use C = **0.95**

Project **Proposed Development** By **MJD** Date **10/31/25**

Location **2135, 2145, 2155 Reservoir Ave, Trumbull, CT** Checked **LAM** Date **10/31/25**

Site Status: Developed **Partially Developed** **RF-2**

1. Runoff Coefficient ©

Soil Name and hydrologic group (Appendix A)	Cover description (cover type, treatment, and hydrologic condition; percent impervious; unconnected/connected impervious area ratio)	C [1]			Area [x] acres [ ] mi^2 [ ] %	Product of C x area
D	Impervious	0.95			0.30	0.29
D	Pervious	0.35			0.00	0.00
1 Use only one C source per line		Totals =			0.30	0.29

CN (weighted) = $\frac{\text{total product}}{\text{total area}} = \frac{0.29}{0.30} =$ 0.95 Use C = **0.95**

First Defense®

Advanced Hydrodynamic Separator

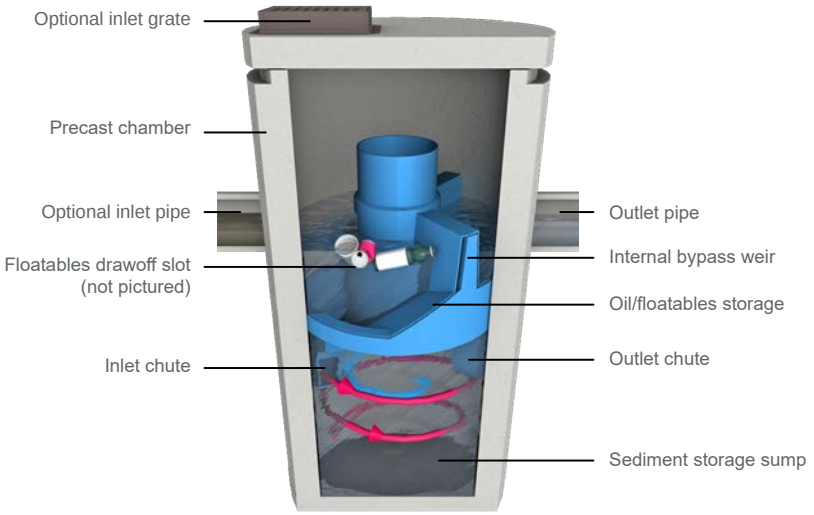


Product Summary

A Simple Solution for the Trickiest Sites

First Defense is a versatile stormwater separator with some of the highest approved flow rates in the United States. Engineers and contractors can save site space and reduce project costs by using the smallest possible footprint. It works with single or multiple inlet pipes and inlet grates. An internal bypass conveys infrequent peak flows directly to the outlet, efficiently capturing pollutants and preventing washouts.

Features



Contaminated stormwater runoff enters the inlet chute from a surface grate and/or inlet pipe. The inlet chute introduces flow into the chamber tangentially to create a low energy vortex flow regime (magenta arrow) that directs sediment into the sump while oils, floating trash and debris rise to the surface.

Treated stormwater exits through a submerged outlet chute located opposite to the direction of the rotating flow (blue arrow). Enhanced vortex separation is provided by forcing the rotating flow within the vessel to follow the longest path possible rather than directly from inlet to outlet.

Higher flows bypass the treatment chamber to prevent turbulence and washout of captured pollutants. An internal bypass conveys infrequent peak flows directly to the outlet eliminating the need for, and expense of, external bypass control structures. A floatables draw off slot functions to convey floatables into the treatment chamber prior to bypass.

Applications

- Areas requiring a minimum of 50% TSS removal
- Stormwater treatment at the point of entry into the drainage line
- Sites constrained by space, topography or drainage profiles with limited slope and depth of cover
- Highways, parking lots, industrial areas and urban developments
- Pre-treatment to ponds, storage systems, green infrastructure

Benefits

Highest Flow Through the Smallest Footprint

- **Smaller Footprint, Lower Costs**
  First Defense provides space-saving, easy-to-install surface water treatment in standard size chambers/manholes.
- **Adapt to Site Limitations**
  Variable configurations will help you effectively slip First Defense into a tight spot. It also works well with large pipes, multiple inlet pipes and inlet grates.
- **Reduce Installation Time & Costs**
  Every First Defense unit is delivered to site pre-assembled and ready for install.
- **Online System Configuration**
  First Defense eliminates the need for separate structures with its integrated internal bypass.
- **Designed with Maintenance in Mind**
  Easy vactor hose access through the center shaft of the system makes for quick sump cleanout, saving time and reducing long-term operational cost.



Sizing & Specifications

First Defense units are available in **six diameters** to fit standard chamber and manhole sizes. The dimensions below are common across all model numbers.

Diameter	Peak Online Flow Rate	Maximum Pipe Diameter[1]	Typical Sediment Storage Capacity[2]	Minimum Distance from Outlet Invert to Top of Rim[3]	Standard Distance from Outlet Invert to Sump Floor
(ft / m)	(cfs / L/s)	(in / mm)	(yd^3 / m^3)	(ft / m)	(ft / m)
3 / 0.9	15 / 424	18 / 450	0.4 / 0.3	2.0 - 2.5 / 0.61 - 0.76	3.71 / 1.13
4 / 1.2	18 / 510	24 / 600	0.7 / 0.5	2.0 - 3.0 / 0.61 - 0.91	4.97 / 1.5
5 / 1.5	20 / 566	24 / 600	1.1 / .84	2.0 - 3.7 / 0.61 - 1.13	5.83 / 1.5
6 / 1.8	32 / 906	30 / 750	1.6 / 1.2	2.0 - 4.1 / 0.61 - 1.25	5.97 / 1.8
8 / 2.4	50 / 1415	48 / 1200	2.8 / 2.1	2.4 - 5.4 / 0.73 -1.65	7.40 / 2.2
10 / 3.0	50 / 1415	48 / 1200	4.4 / 3.3	2.4 - 6.8 / 0.73 - 2.07	10.25 / 3.12

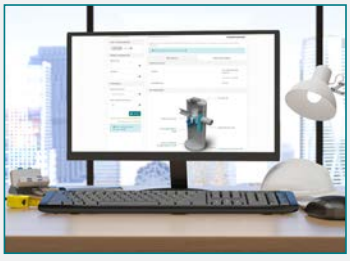
Hydro International offers First Defense units in **two versions** that conform to the performance requirements of different states' water quality regulations.[4]

First Defense High Capacity Model Number	Typical TSS Treatment Flow Rates	
	NJDEP Certified[4]	110µm
	(cfs / L/s)	(cfs / L/s)
FDHC-3	0.84 / 23.7	1.06 / 30.0
FDHC-4	1.50 / 42.4	1.88 / 53.2
FDHC-5	2.35 / 66.2	2.94 / 83.2
FDHC-6	3.38 / 95.7	4.23 / 119.8
FDHC-8	6.00 / 169.9	7.52 / 212.9
FDHC-10	9.38 / 265.6	11.75 / 332.7

First Defense Optimum Model Number	NJDEP Certified Treatment Flow Rates[4]
	(cfs / L/s)
FDO-3	1.02 / 28.9
FDO-4	1.81 / 51.3
FDO-5	2.83 / 80.0
FDO-6	4.07 / 115.2
FDO-8	7.23 / 204.7
FDO-10	11.33 / 320.6

[1]Contact Hydro International when larger pipe sizes are required.
[2]Contact Hydro International when custom sediment storage capacity is required.
[3]These are guidlines only. Minimum distance is based on pipe diameter and headloss at assumed flow rates, contact Hydro for detailed design.
[4]NJDEP Certified / NJCAT Verified, based on one inlet pipe and no inlet grate.

Also available in a screened configuration for Full Trash Capture!



Free Online Design Tool

This free online sizing tool will recommend the best separator, model size and online or offline configuration based on site-specific data entered by the user.

Upon completion, users have the option to submit the design to Hydro International for a free review by our engineering team.

Go to hydro-int.com/sizing to access the tool.

Hydro International

Hydro International, 94 Hutchins Drive, Portland, ME 04102
Tel: (207) 756-6200
Email: stormwaterinquiry@hydro-int.com
Web: www.hydro-int.com/firstdefense

FD_SS_B_2203

Download Drawings:
→ hydro-int.com/fddrawings

Operation & Maintenance Manual:
→ hydro-int.com/fd-om

APPENDIX D
DESIGN PLANS

Under Separate Cover

Grading & Drainage Plan (2.21)
Soil Erosion & Sediment Control Plans (2.31 & 2.32)
Soil Erosion & Sediment Control Notes & Details (2.41)
Utility Plan (2.51)
Landscaping Plan (2.61)
Lighting Plan (2.71)

APPENDIX E
LONG-TERM OPERATION & MAINTENANCE

Operation & Maintenance Manual

LONG-TERM
OPERATION & MAINTENANCE MANUAL

For the Proposed:

Multi-Family Residential Development

Located At:
2135, 2145 & 2155 Reservoir Avenue
Trumbull, Connecticut 06611

Prepared On:
October 31, 2025

Prepared By:

SOLLI ENGINEERING
501 Main Street
Monroe, Connecticut 06468
T: (203) 880-5455 F: (203) 880-9695

Prepared For:

Vessel Technologies

46 West 55th Street
New York, NY

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SOLLI ENGINEERING

INTRODUCTION

Solli Engineering (Solli) has prepared this Stormwater Management System Operation and Maintenance Manual in accordance with Chapter 4 Standard 4: Post Construction Operation and Maintenance of the Connecticut Stormwater Quality Manual. The Long-Term Operations and Maintenance (O&M) Manual, filed with the Town of Trumbull, shall be implemented at the proposed Multi-Family Residential Development project at 2135, 2145 & 2155 Reservoir Avenue in the Town of Trumbull, Connecticut to ensure that the stormwater management functions as designed. The owner possesses the primary responsibility for overseeing and implementing the O&M plan and assigning a Property Manager who will be responsible for the proper operation and maintenance of the stormwater structures. In case of transfer of property ownership, future property owners shall be notified of the presence of the stormwater management system and the requirements for proper implementation of the O&M plan. Included in the O&M plan identifying key components of the stormwater system as well as a log for tracking inspections & maintenance.

The stormwater management system protects and enhances the stormwater runoff water quality through the removal of sediment and pollutants, and source control significantly reduces the amount of pollutants entering the system. Preventive maintenance of the system will include a comprehensive source reduction program of regular vacuuming and litter removal, prohibitions on the use of pesticides and maintenance of designated waste and recycling. All inspections and maintenance shall be performed in accordance with the Connecticut Stormwater Quality Manual.

RESPONSIBILITY

The purpose of the Long-Term Operation and Maintenance (O&M) Manual is to ensure inspection of the system, removal of accumulated sediments, oils, and debris and implementation of corrective action and record keeping activities. The below O&M activities associated with the site will be performed by a Contract Operator for the scope of maintenance. The Contract Operator will be a professional engineer or other technical professional with expertise and experience with stormwater management facilities operation and maintenance.

The ongoing responsibility is the Owner, its successors, and assigns. Adequate maintenance is defined in this document as good working condition.

Responsibility for O&M (to be transferred upon sale of property / development):

Contact: Josh Levy
Company: Vessel Technologies
Number: (646) 531-2126
Address: 46 West 55th Street
City, State: New York, NY 10019

DOCUMENTATION

An inspection and maintenance record log and schedule will be kept by the Owner or Property Manager summarizing inspections, maintenance, repairs, and any corrective actions taken. The log will include the date on which each inspection or maintenance task was performed, a description of the inspection findings or maintenance completed, and the name of the inspector or maintenance personnel performing the task. If a maintenance task requires the clean-out of any sediments or debris, the location where the sediment and debris was disposed after removal will be indicated. Inspection & Maintenance Logs will be kept on file at the on-site Property Management office.

MAINTENANCE PROGRAM

The Owner, Property Manager and maintenance staff will conduct the Operation and Maintenance program set forth in this document. The Owner or Property Manager will ensure that inspections and record keeping are timely and accurate, and that cleaning and maintenance are performed in accordance with the recommended frequency for each stormwater component. Inspection & Maintenance Log Forms shall include the date and the amount of the last significant storm event in excess of 1-inch of rain in a 24-hour period, physical conditions of the structures, depth of sediment in structures, evidence of overtopping or debris blockage and maintenance required of each structure. The following areas, facilities and measures will be inspected by the Owner or Property Manager and maintained as specified below. Identified deficiencies will be corrected. Accumulated sediments and debris will be properly handled and disposed of off-site, in accordance with local, state, and federal guidelines and regulations.

All inspections and maintenance performed shall be in accordance with specifications outlined in the Connecticut Stormwater Quality Manual.

ABOVE-GROUND STORMWATER DETENTION BASIN

The stormwater detention basin was designed to attenuate the peak discharge rate per the 2024 Connecticut Stormwater Quality Manual. To successfully maintain these design parameters the following will be required for upkeep:

As needed basis:

- Prune and weed to maintain appearance
- Remove trash and debris
- Ensure that contributing area, practice and inlets are clear of debris
- Repair undercut and eroded areas at inflow and outflow structures

Semi-annually:

- Inspect inflow and pretreatment systems for clogging and remove sediment
- Remove trees that start to grow within the basin.

Annually:

- Inspect and remove any sediment and debris build-up in basin
- Inspect inflow points and infiltration surface for buildup or road sand associated with spring melt period, remove as necessary, and replant areas that have been impacted by sand/salt buildup
- Cut back and remove previous year's plant material and remove accumulated leaves if needed

Every 5 Years:

- Scrape basin bottom and remove sediment
- Restore original volumetric dimensions of basin
- Restore original infiltration rate

HYDRODYNAMIC SEPARATOR UNIT

Hydrodynamic separators protect the environment by removing a wide range of pollutants from stormwater runoff. Periodic removal of these captured pollutants is essential to the continuous, long-term functioning of the separator. The unit will capture and retain sediment and oil until the sediment and oil storage volumes are full to capacity. When sediment and oil storage capacities are reached, the structure will no longer be able to store removed sediment and oil. In the case of inspection and floatables removal, a vactor truck may be needed. The frequency of cleanout is determined in the field after installation. During the first year of operation, the unit should be inspected regularly and then after, every six months (twice a year) to determine the rate of sediment and floatables accumulation. A simple probe can be used to determine the level of accumulated solids stored in the sump. This information should be recorded in the inspection logs. Sediment and debris removal can be done manually or with approved sump-vac (or equal).

As for inspection procedures, set up any safety equipment around the access port or grate of the structure. Such safety equipment should notify passing pedestrians and road traffic that work is being done. Then remove the top of said manhole, and without entering the vessel inspect the inside of the chamber, making note of any irregularities or issues observed, such as sediment buildup, cracks or breaks in the structure, water level, etc. Again, without entering the vessel, use a pole skimmer to remove floatables and debris from the chamber. Using a sediment probe, measure the depth of the sediment that has collected in the sump of the structure. For a more thorough cleaning, lower a vactor hose to the base of the sump and vactor out the sediment and gross debris from the sump floor. On the log it is important to note the date, location of structure (or identification), estimated volume of floatables, and depth of sediment. Securely replace the top of the structure and take down any safety equipment. Then notify the engineer of record for any irregularities in the structure's performance if any.

CATCH BASIN & DRAINAGE INLETS

- Catch basins and drainage inlets shall be completely cleaned of accumulated debris and sediments at the completion of construction.
- For the first year, catch basins and other drainage inlets shall be inspected on a quarterly basis, with one inspection immediately following the completion of winter sanding and subsequent sweeping operations, and one happening just prior to the winter season.
- Any accumulated debris within the catch basins/inlets shall be removed and any repairs made to the basin as required.
- From the second year onward, visual inspections shall occur twice per year, once in the spring, after winter sanding and sweeping operations are complete, and once in the fall, after fall cleanup of leaves has occurred.
- Accumulated debris within the catch basins/inlets shall be removed and repairs made as required.
- Accumulated sediments shall be removed at which time they are within 12 inches of the invert of the outlet pipe.
- All drainage outlets shall be inspected and cleared of debris. Any repairs to outlet protection material (rip rap) shall be performed.

STORM DRAINAGE PIPING

- All storm drainage piping shall be completely flushed of debris and accumulated sediment at the completion of construction.
- Connection points at structures shall be inspected and repaired on an annual basis.
- Unless system performance indicates degradation of piping, comprehensive video inspection of storm drainage piping shall occur once every ten years.

SNOW & ICE MANAGEMENT

Snow accumulations removed from roadway, driveway and parking areas should be placed in areas where sand and other debris will remain after snowmelt for later removal. Excess snow should be removed from the site and properly disposed of in an approved snow disposal facility. Care must be exercised not to deposit snow in the following areas: on top of storm drain catch basins; in storm drainage swales; in natural depressions and in the stormwater basin.

PESTICIDES, HERBICIDES AND FERTILIZERS

Pesticides and herbicides shall be used sparingly. Fertilizers should be restricted to the use of organic fertilizers only. Exterior storage of fertilizers, herbicides, pesticides or other toxic or hazardous materials should be prohibited.

TRASH REMOVAL

Once a month the owner of the site or a designated property manager should walk the site and remove any debris or trash that is seen. The site walk shall include the existing surface detention basin to the east of the retaining wall and the surrounding wooded area adjacent to the edge of the proposed paved area to the south. All trash and debris are to be collected and disposed of in an approved manner.

EMERGENCY SPILL CONTAINMENT

The Owner, along with the on-site Property Manager, is responsible for educating staff and informing tenants on the environmental benefits associated with the use of pavement at the site. Staff must be trained, and tenants informed via the community website as to the proper spill prevention control and response procedures should a spill occur on the pavement surface. Proper spill control products, such as a granular dry absorbent, must be kept on-site at the property management office in a clean, dry chemical and corrosion resistant container.

A spill of greater than 10 gallons of oil or a spill of any quantity that has reached a surface water, into a sewer, storm drain, ditch, or culvert leading to a surface water, is immediately reported to one or more municipal, state, or federal authority. In the event of a hazardous waste spill on-site, the following protocol should be followed.

- If it is safe to do so, maintenance staff or tenants detecting an oil spill should immediately stop the release and use available materials to prevent the spread of oil, Tetra Tech 6 particularly from discharging towards leaching catch basins located within the access driveway.
- If there is a potentially flammable, toxic or explosive condition, evacuate the vicinity of the spill.
- If it's believed that a reportable or dangerous condition exists, immediately call your local Fire Department to notify them of the release.
- If it is believed that a reportable condition exists, immediately call CT DEEP to notify them of the release. Be prepared to provide the following information to CT DEEP and the Fire Department:
    - Identity of the caller
    - Contact phone number
    - Location of the spill
    - Type of product spilled
    - Approximate quantity or product spilled
    - Extent of actual and/or potential water pollution
    - Date and time of spill
    - Cause of spill
- Contact a Licensed Site Professional (LSP) to assist in further handling of the material(s) and PADEP.

RIP RAP OUTLET PROTECTION

Inspect at least once annually for accumulation of sediment and debris and for signs of erosion surrounding rip rap. Remove debris whenever observed during inspection. Remove sediment when accumulation exceeds 25% of rip rap channel. Weed and prune as required by landscaping design. At a minimum, weed and prune annually to allow rip rap to effectively work. Snow should not be stored within or down-slope rip rap channel. Repair any erosion and re-grade or replace rip rap material, as warranted by inspection. Reconstruct the rip rap channel if indications of down-slope erosion have occurred.

STREET MAINTENANCE

Street maintenance is a non-structural source control performed by mechanical means to limit sediment and particulates from impervious surfaces as an effort to control or limit the sediment migration to other stormwater BMP's during storm events. There are three typical types of sweeping methods, including mechanical, regenerative air and vacuum filter. Mechanical sweepers are the most common and use brooms or brushes to scour the pavement. Regenerative air sweepers blow air onto the impervious surface causing sediment and other fine particles to be blown from the surface so they can be vacuumed. Vacuum filter sweepers are available in wet and dry types. Dry types use brooms to agitate the sediment prior to vacuuming. Wet types work in a similar fashion but use water to suppress dust during the collection activity. Because of street maintenance, sediment and other fine particulates are limited on the impervious surfaces and be further controlled from entering other BMP's. They also allow for the removal and prevention of accumulation of sediment along parking or road edges.

This should be done periodically during dry weather to remove excess sediments to reduce the amount of sediments that the drainage system shall have to remove from runoff. Sweeping should mostly be conducted between the months of March and November, with special attention to sweeping during the wetter (earlier) months. Salt used for de-icing should be limited as much as possible as this will reduce the need for the removal and treatment. However, sand containing the minimum amount of calcium chloride (or approved equal) needed for handling may be applied as part of the routine winter maintenance activities.

DISPOSAL OF DEBRIS AND SEDIMENT

All debris and sediment removed from the stormwater structures shall be disposed of legally. There shall be no dumping of silt or debris into or in proximity to any inland or tidal wetlands.

	Title:	Inpsection #:
	Location:	Project #:
		Field Date:

INSPECTION & MAINTENANCE LOG

Name(s) & Title(s) of Individual(s) performing inspection: _____

Week of Inspection: _____

Type of Inspection:

☐ Monthly ☐ Quarterly ☐ Biannually ☐ Annually ☐ Emergency

Weather (during inspection)

☐ Clear ☐ Cloudy ☐ Rain ☐ Snow ☐ Sunny ☐ Windy ☐ Fog

Other:

Time of Inspection:		**Temp. during inspection:**	°F
Start Time:	**a.m.** **End Time:** **a.m.**	**Precip. since last inspection:**	"

Site Specific BMP's

#	BMP	Maintenance Required		Corrective Action Needed & Notes
1		☐ Yes	☐ No	
2		☐ Yes	☐ No	
3		☐ Yes	☐ No	
4		☐ Yes	☐ No	
5		☐ Yes	☐ No	
6		☐ Yes	☐ No	
7		☐ Yes	☐ No	
8		☐ Yes	☐ No	
9		☐ Yes	☐ No	
10		☐ Yes	☐ No	

Overall Site Maintenance Concerns

BMP/Activity	Maintenance Required		Corrective Action Needed & Notes
Are discharge points & receiving waters free of any sediment deposits?	☐ Yes	☐ No	
Are storm drain inlets properly working?	☐ Yes	☐ No	
Is trash/litter from site areas collected & placed in covered dumpsters?	☐ Yes	☐ No	
What is the level of sediment within infiltration basin?	☐ Yes	☐ No	
What is the level of sediment within the hydrodynamic separators?	☐ Yes	☐ No	
What is the levels of oil/grit/trash within the infiltration basin or hydrodynamic separators?	☐ Yes	☐ No	
(Other)	☐ Yes	☐ No	

Inspector(s) Signature(s): _____

November 7, 2025

Josh Levy
Vessel Technologies
46 West 55th Street
New York, NY, 10019

Re: Traffic Impact Assessment – Vessel
2135, 2145, 2155 Reservoir Avenue, Trumbull, CT 06611
Solli Project No.: 24116901

Dear Mr. Levy:

Solli Engineering, LLC, has prepared this assessment to provide an analysis of the potential traffic impacts associated with the proposed development located at 2135, 2145, and 2155 Reservoir Avenue in Trumbull, Connecticut. The evaluation has been completed in accordance with the Town of Trumbull requirements as well as standard traffic engineering methodology. Our investigation concludes that the proposed development will not have an adverse impact on the area roadway network.

Project Overview

The project site (Site) consists of three adjacent parcels at 2135, 2145, and 2155 Reservoir Avenue, located in the Residence Zone A zoning district within the town of Trumbull. The Site is currently developed with single-family homes at 2135 and 2145 Reservoir Avenue. 2155 Reservoir Avenue is currently developed with a single-family home and a detached garage/storage building. The Site is bound by industrial and commercial properties to the north and west, Reservoir Avenue to the east, and residential properties to the south. The Site is proposed to be developed with a five-story building comprised of 70 apartment units and a five-story building comprised of 80 apartment units, for a total of 150 units, and appurtenant parking, drainage, landscape, and utility features. The existing residential driveways at 2135, 2145, and 2155 Reservoir Avenue are proposed to be closed off. Site access and egress will be provided via a proposed full-movement, stop-controlled driveway on Reservoir Avenue. See Figure 1, Site Location Map, for more details on the proposed development location.

Existing Conditions

Roads

Reservoir Avenue is a north-south, minor arterial, local roadway with a posted speed limit of 30 miles per hour. Throughout the study area, Reservoir Avenue is a two-lane, bi-directional roadway with lanes measuring approximately 10 feet in width and shoulders with varying widths on both sides of the roadway. There are sidewalks on both sides of Reservoir Avenue to the north of the Site, and there are no bike lanes. Reservoir Avenue provides local access to residential and commercial properties throughout the study area, Trumbull Center and CT-25 to the north, and Bridgeport and CT-8 / CT-25 to the south.

Old Town Road is an east-west, minor arterial, local roadway with a posted speed limit of 25 miles per hour. Throughout the study area, Old Town Road is a two-lane, bi-directional roadway with lanes of varying widths and no shoulder markings. There are no bike lanes or sidewalks on Old Town Road. Old Town Road provides local access to residential properties in the study area, CT-8 and CT-25 to the east of the project Site, and CT-15 and commercial properties to the west.

Lindeman Drive is an east-west, local roadway with no posted speed limit. Lindeman Drive is a two-lane, bi-directional roadway with 11-foot-wide lanes and shoulders with varying widths. Lindeman Drive is divided for approximately 700 feet west of Reservoir Avenue. There is a sidewalk along the westbound lane, and no bike lanes. Lindeman Drive provides local access to residential and commercial properties within the study area.

Intersections

Lindeman Drive at Reservoir Avenue forms an unsignalized intersection with three approaches. The Lindeman Drive eastbound approach is stop-controlled and consists of one full-movement lane. The Reservoir Avenue northbound approach is free-flowing and consists of one full-movement lane. The Reservoir Avenue southbound approach is free-flowing and consists of one full-movement lane. There are no crosswalks at the intersection, but there are pedestrian ramps at the eastbound and northbound approaches.

Rocky Hill Terrace at Reservoir Avenue forms an unsignalized intersection with three approaches. The Rocky Hill Terrace westbound approach is stop-controlled and consists of one full-movement lane. The Reservoir Avenue northbound approach is free-flowing and consists of one full-movement lane. The Reservoir Avenue southbound approach is free-flowing and consists of one full-movement lane. There are no crosswalks or pedestrian infrastructure at this intersection.

Old Town Road at Reservoir Avenue forms an unsignalized intersection with four approaches and two residential driveways. The Old Town Road eastbound and westbound approaches are stop-controlled, and each approach has one full-movement lane. The Reservoir Avenue northbound and southbound approaches are stop-controlled, and each approach has one full-movement lane. There are no crosswalks or pedestrian infrastructure at this intersection.

Existing Traffic

Manual turning movement count data was collected by National Data and Surveying Services (NDS) and Solli Engineering in July and August 2025 at the study area intersections during the weekday AM, weekday PM, and Saturday midday peak periods. The 2025 existing traffic volume data for the weekday AM, weekday PM, and Saturday midday peak hours are illustrated in Figure 2, included as a supporting document to this assessment. A copy of the raw turning movement volume data is included as a supporting document to this assessment.

NDS and Solli Engineering also collected Automatic Traffic Recorder (ATR) volume and speed data on Reservoir Avenue at the proposed Site. The ATR data was collected in 2025 over a 24-hour period on Saturday, July 19 and over a 48-hour period from Wednesday, August 27 to Friday August 29 in the vicinity of the proposed site driveway. The highest observed 85th percentile speeds of 38 miles per hour northbound and 38 miles per hour southbound were selected as the design speeds. Copies of the ATR volume and speed data are included as supporting documents to this assessment.

Volume data was obtained from Connecticut Department of Transportation (CTDOT) Traffic Monitoring Stations in Trumbull and Bridgeport, Connecticut. Volume data and reported Annualized Average Daily Traffic (AADT) were collected from Reservoir Avenue Station BRDP-157, located approximately 4,500 feet south of the proposed Site Driveway. Station BRDP-157 reported a bi-directional AADT of 7,200 in 2019, 6,600 in 2022, and 7,500 in 2025. In 2022, traffic volumes across Connecticut had not yet returned to pre-pandemic volumes. The 2019 pre-pandemic volumes were compared to the most recent data, developed from count data collected in April 2025. This data represents a bi-directional AADT increase of 0.68 percent per year. The AADT data from Station BRDP-157 is included as a supporting document to this assessment.

Safety Analysis

Crash data was obtained from the Connecticut Crash Data Repository for the three most recent years of available data (2022 – 2025) for the roadway segment along Reservoir Avenue in the vicinity of the property frontage. One (1) crash was identified on Reservoir Avenue along the property frontage. This collision occurred when a vehicle traveling southbound on Reservoir Avenue crossed over the centerline and sideswiped a vehicle traveling northbound on Reservoir Avenue. This collision occurred when the road was dry and resulted in property damage only. Five (5) crashes were identified at the unsignalized intersection of Reservoir Avenue and Lindeman Drive. The crashes consisted of one (1) rear-end collision and four (4) angle collisions. Two (2) collisions resulted in injury, and three (3) collisions resulted in property damage only. Three (3) of the collisions occurred when the road was dry, and two (2) collisions occurred

when the road was wet. No crashes were identified at the intersection of Reservoir Avenue and Rocky Hill Terrace during the study period.

Proposed Conditions

The Site is proposed to be developed with a five-story building comprised of 70 apartment units, a five-story building comprised of 80 apartment units, and appurtenant parking, drainage, landscape, and utility features. Access and egress to and from the Site are proposed via a full-movement, stop-controlled driveway on Reservoir Avenue. The driveway is proposed to have 12-foot-wide lanes and will be located between the existing driveways at 2145 and 2155 Reservoir Avenue. The three existing site driveways will be closed off. Intersection sight distance (ISD) at the proposed driveway was evaluated per guidance provided in the 2025 edition of the *CTDOT Highway Design Manual*. ISD was calculated based on a stop-controlled approach with main line free-flowing traffic and speed data collected in August 2025. The 85th percentile speeds of 38 miles per hour northbound and 38 miles per hour southbound were selected as the design speeds. Based on a speed of 38 miles per hour northbound, an ISD of 420 feet looking right is required for passenger vehicles exiting the site driveway onto Reservoir Avenue. Based on a speed of 38 miles per hour southbound, an ISD of 420 feet looking left is required for passenger vehicles exiting the site driveway onto Reservoir Avenue. Under the proposed conditions, the available ISD exceeds the required ISD, looking both left and right out of the proposed site driveway. See the Intersection Sight Distance Figure, ISD-1, included as a supporting document in this assessment for additional details.

The site layout has been designed to accommodate a SU-30 single unit truck as well as a fire apparatus. A Truck Turning Figure, TT-1, is included as a supporting document demonstrating the vehicular circulation through the site. The proposed development consisting of 122 one-bedroom units and 28 two-bedroom units contained within mid-rise residential structures includes 178 parking spaces. The Institute of Transportation Engineers (ITE) *Parking Generation Manual, 6th Edition* provides empirical data regarding parking demand for similar uses. ITE empirical data indicates an average parking demand of 0.68 spaces per one-bedroom unit and 1.23 spaces per two-bedroom unit for mid-rise multifamily housing. Based on empirical data, the anticipated average parking demand is 118 spaces. Therefore, the proposed 178 spaces on-site are anticipated to adequately serve the average parking demand. Copies of the empirical parking data are included as supporting documents to this assessment.

To evaluate the potential traffic impact associated with the proposed development, the trips generated by the proposed land use were estimated using data from the ITE *Trip Generation Manual, 12th Edition*. The trip generation was calculated for the weekday AM, weekday PM, and Saturday midday peak hours based on the proposed multifamily housing use. Land Use Code (LUC) 221 (Multifamily Housing (Mid-Rise)) was utilized for the proposed development based on the height of the proposed residential buildings and the type of residential units. ITE defines LUC 221 as "mid-rise multifamily housing (that) includes apartments, townhouses, and condominiums located in a building that has between four and ten floors of living space." The additional ITE designation of "Not Close to Rail Transit" was also applied to LUC 221 for this project, as the site does not fall within a ½ mile walking distance to a rail transit station. The proposed development is expected to generate 57 (13 entering, 44 exiting) new network trips during the weekday AM peak hour, 57 (36 entering, 21 exiting) new network trips during the weekday PM peak hour, and 54 (28 entering, 26 exiting) new network trips during the Saturday midday peak hour. Peak hour trips are anticipated to be distributed throughout the respective peak hour. Table 1 below summarizes the anticipated trip generation for the proposed development. A more detailed trip generation summary as well as ITE rate sheets are provided as supporting documents to this assessment.

An existing Greater Bridgeport Transit (GBT) bus stop is located approximately 750 feet north of the project site at the intersection of Reservoir Avenue and Lindeman Drive. The bus stop is serviced by Route 6, which provides service to the Westfield Trumbull Mall to the north, and the Bridgeport Bus Terminal and Train Station to the south. Residents may utilize the bus service, however, a reduction in trips was not applied to the study for use of multimodal transit, resulting in a conservative analysis. See the enclosed "GBT Bus Route 6 Map" for more details on specific bus routes.

TABLE 1
PEAK HOUR TRIP GENERATION SUMMARY

LAND USE	WEEKDAY AM PEAK HOUR			WEEKDAY PM PEAK HOUR			SATURDAY MIDDAY PEAK HOUR		
	ENTER	EXIT	TOTAL	ENTER	EXIT	TOTAL	ENTER	EXIT	TOTAL
LUC 221 Multifamily Housing Mid-Rise (70 units)	6	21	27	17	10	27	13	12	25
LUC 221 Multifamily Housing Mid-Rise (80 units)	7	23	30	19	11	30	15	14	29
Total New Trips	**13**	**44**	**57**	**36**	**21**	**57**	**28**	**26**	**54**

The anticipated distribution of new traffic entering and exiting the proposed Site Driveway was developed based on area populations, existing traffic patterns, the layout of the adjacent roadway network, and United States Census Bureau Data. The Census data was collected using "OnTheMap", a tool that provides regional employment data based on residential zip code. This tool was used to determine the zip codes where Trumbull residents are employed. That data was then used to forecast weekday trip distributions based on anticipated journey to/from work. A breakdown of the United States Census Data is provided as a supporting document to this assessment. The following distributions were applied to the new site-generated trips:

Weekday AM, Weekday PM, and Midday SAT Peak Hour Distributions:

- 35% to/from the north
    - 30% to/from the north via Reservoir Ave
    - 5% to/from the west via Lindeman Dr
- 65% to/from the south
    - 10% to/from the east via Old Town Rd
    - 35% to/from the south via Reservoir Ave
    - 20% to/from the west via Old Town Rd

The anticipated distribution of the new site-generated trips is illustrated in Figure 3, included as a supporting document to this assessment. The new site-generated trips were assigned to the proposed Site Driveway intersection based on the anticipated distributions from Figure 3, and the resulting trip assignment is illustrated in Figure 4, included as a supporting document to this assessment.

The proposed development is anticipated to be completed by 2027. Background traffic growth is estimated to account for the traffic increase due to regional population and economic growth in the study area. CTDOT monitoring station BRDP-157 reported a pre-pandemic bi-directional AADT of 7,200 in 2022 and a bidirectional AADT of 7,500 in 2025, based on counts collected in April 2025. This data represents a bidirectional AADT increase of 0.68 percent per year. The 2025 existing traffic volumes were projected to the 2027 design year using a conservative 1.0 percent per year growth rate to develop the 2027 no-build traffic volumes. The 2027 no-build traffic volumes are illustrated in Figure 5, included as a supporting document to this assessment.

The trip assignment volumes illustrated in Figure 4 were combined with the 2027 No-Build traffic volumes from Figure 5 to develop the 2027 build traffic volumes, which are reported in Figure 6, included as a supporting document to this assessment.

Capacity Analysis

To determine the operating conditions of the study area intersections after the proposed development is completed, the study area intersections were analyzed using the Synchro 11 capacity analysis software for the build conditions during the weekday AM, weekday PM, and Saturday midday peak hours, as these are the periods which have the greatest potential for impact on the adjacent roadway network by the proposed development. The results of the Synchro analysis describe the traffic impact in terms of Level of Service (LOS). LOS describes the operational condition of a signalized intersection in terms of delay (in seconds per vehicle) and is expressed on a scale of A through F, with LOS A being the best and LOS F being the worst. LOS A reflects intersection conditions with little to no vehicle delay (less than 10 seconds per vehicle), and LOS F reflects intersection conditions that are over capacity and experience long delays (more than 50 seconds of delay per vehicle at unsignalized intersections or more than 80 seconds of delay at signalized intersections). At unsignalized intersections, only the delay and the Level of Service on stop-controlled approaches are reported. Table 2 below summarizes the results of the analysis for the 2025 existing, 2027 no-build, and 2027 build scenarios. Additional details regarding individual movements, as well as detailed Synchro 11 Capacity Analysis Worksheets, are provided as supporting documents to this assessment.

TABLE 2
CAPACITY ANALYSIS SUMMARY
LOS(Delay)
AM / PM / SAT

INTERSECTION	2025 Existing	2027 No-Build	2027 Build
Reservoir Avenue & Lindeman Drive*			
Lindeman Drive – Eastbound	C(20.9) / D(25.6) / B(11.2)	C(21.8) / D(27.3) / B(11.3)	C(23.0) / D(30.0) / B(11.6)
Reservoir Avenue & Rocky Hill Terrace*			
Rocky Hill Terrace – Westbound	B(10.0) / A(9.7) / A(9.3)	B(10.0) / A(9.7) / A(9.3)	B(10.2) / A(9.8) / A(9.4)
Reservoir Avenue & Site Driveway*			
Site Driveway – Eastbound	- / - / -	- / - / -	B(10.1) / B(10.0) / A(9.5)
Reservoir Avenue & Old Town Road*			
Old Town Road – Eastbound	B(11.2) / B(11.0) / A(8.6)	B(11.4) / B(11.2) / A(8.7)	B(11.9) / B(11.6) / A(8.9)
Old Town Road – Westbound	B(12.2) / A(9.7) / A(8.6)	B(12.5) / A(9.8) / A(8.6)	B(13.0) / B(10.1) / A(8.8)
Reservoir Avenue – Northbound	B(11.4) / B(10.3) / A(8.8)	B(11.6) / B(10.5) / A(8.9)	B(12.0) / B(10.9) / A(9.1)
Reservoir Avenue – Southbound	B(10.6) / B(10.2) / A(8.8)	B(10.8) / B(10.3) / A(8.8)	B(11.5) / B(10.7) / A(9.1)

* = Unsignalized intersection, only stop-controlled approaches reported

Capacity analysis was conducted on three (3) key existing intersections and the proposed site driveway. The results of the capacity analysis indicate that under the 2027 build scenario, the study area intersections will generally operate at

the same overall levels of service (LOS) as the 2027 no-build scenario during the weekday AM, weekday PM, and Saturday midday peak hours with less than a 3 second increase in delay experienced at any approach.

Under the 2027 build condition, the proposed site driveway will operate at a LOS B with 10.1 seconds of delay during the weekday AM peak hour, at a LOS B with 10.0 seconds of delay during the weekday PM peak hour, and at a LOS A with 9.5 seconds of delay during the Saturday midday peak hour. No significant queueing is expected for vehicles exiting the proposed site driveway, as the 95th percentile queue for vehicles exiting the Site is anticipated to be less than one vehicle during the weekday AM, weekday PM, and Saturday midday peak hours.

The traffic associated with the proposed development is not anticipated to have significant impacts on the traffic operating conditions on Reservoir Avenue. All stop-controlled approaches are anticipated to maintain their no-build LOS in the build scenario. The traffic impact analysis indicates that the anticipated minor increase in traffic volume associated with the proposed development can be accommodated without adverse impact on the operating conditions of the adjacent roadway network. Capacity Analysis Summary Tables and copies of the Synchro analysis reports are provided as supporting documents to this assessment.

Conclusion

The project proposes to develop the site located at 2135, 2145, and 2155 Reservoir Avenue in Trumbull, Connecticut, with a five-story building consisting of 70 apartment units, a five-story building consisting of 80 apartment units, and appurtenant parking, drainage, landscape, and utility features. A traffic impact analysis of the proposed site driveway intersection was conducted and indicates that the proposed development can be accommodated without adverse impact on the operating conditions of the surrounding roadway network.

Based on the analysis, 57 new trips are anticipated to be generated during the weekday AM peak hour, 57 new trips are anticipated to be generated during the weekday PM peak hour, and 54 new trips are anticipated to be generated during the Saturday midday peak hour. Under the build condition in the year 2027, the stop-controlled site driveway is expected to operate at a LOS B during the weekday AM and weekday PM peak hours and at a LOS A during the Saturday midday peak hour. The 95th percentile queue is anticipated to be less than one vehicle at the site driveway during all peak hours.

It is the professional opinion of Solli Engineering that the traffic anticipated to be generated by the proposed development can be accommodated by the surrounding roadway network. There is no indication that the proposed development will have an adverse impact on the operating conditions of the adjacent roadway network. If you have any questions or require any additional information, please reach out at your convenience.

Sincerely,
Solli Engineering, LLC



Matt Baldino P.E., PTOE
Project Manager



Kevin Solli, P.E., PTOE
Principal

Supporting Documents:

Figures

Site Location Map	(Figure 1)
2025 Existing Traffic Volumes	(Figure 2)
Trip Distribution	(Figure 3)
Trip Assignment	(Figure 4)
2027 No-Build Traffic Volumes	(Figure 5)
2027 Build Traffic Volumes	(Figure 6)
Site Layout Plan	(Sheet 2.11)
Intersection Sight Distance Figure	(ISD-1)
Truck Turning Figure	(TT-1)

Traffic Analysis Data

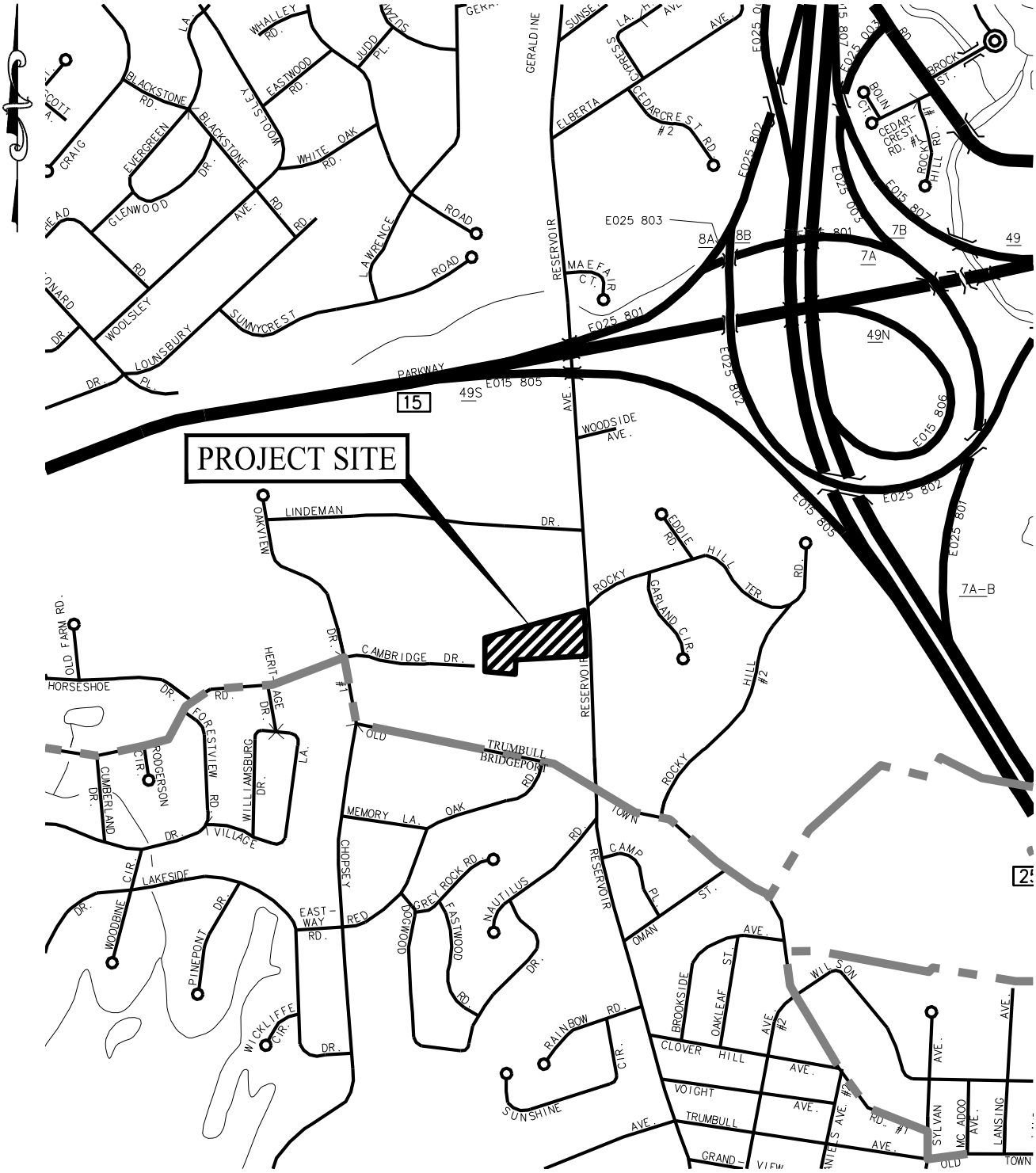
Peak Hour Trip Generation Summary
ITE Trip Generation Rate Sheets
ITE Parking Generation Rate Sheets
Crash Analysis Summary
OnTheMap US Census Bureau Data
BRDP-157 ATR Data
GBT Bus Route 6 Map

Capacity Analysis

Capacity Analysis Summary
2025 Existing – Synchro 11 Report, HCM 6
2027 No-Build – Synchro 11 Report, HCM 6
2027 Build – Synchro 11 Report, HCM 6

Raw Traffic Data

TMC Data
ATR Data



NOTE: BASE MAP INFORMATION TAKEN FROM CT TRU MAP 9

1,000 0 500 1,000

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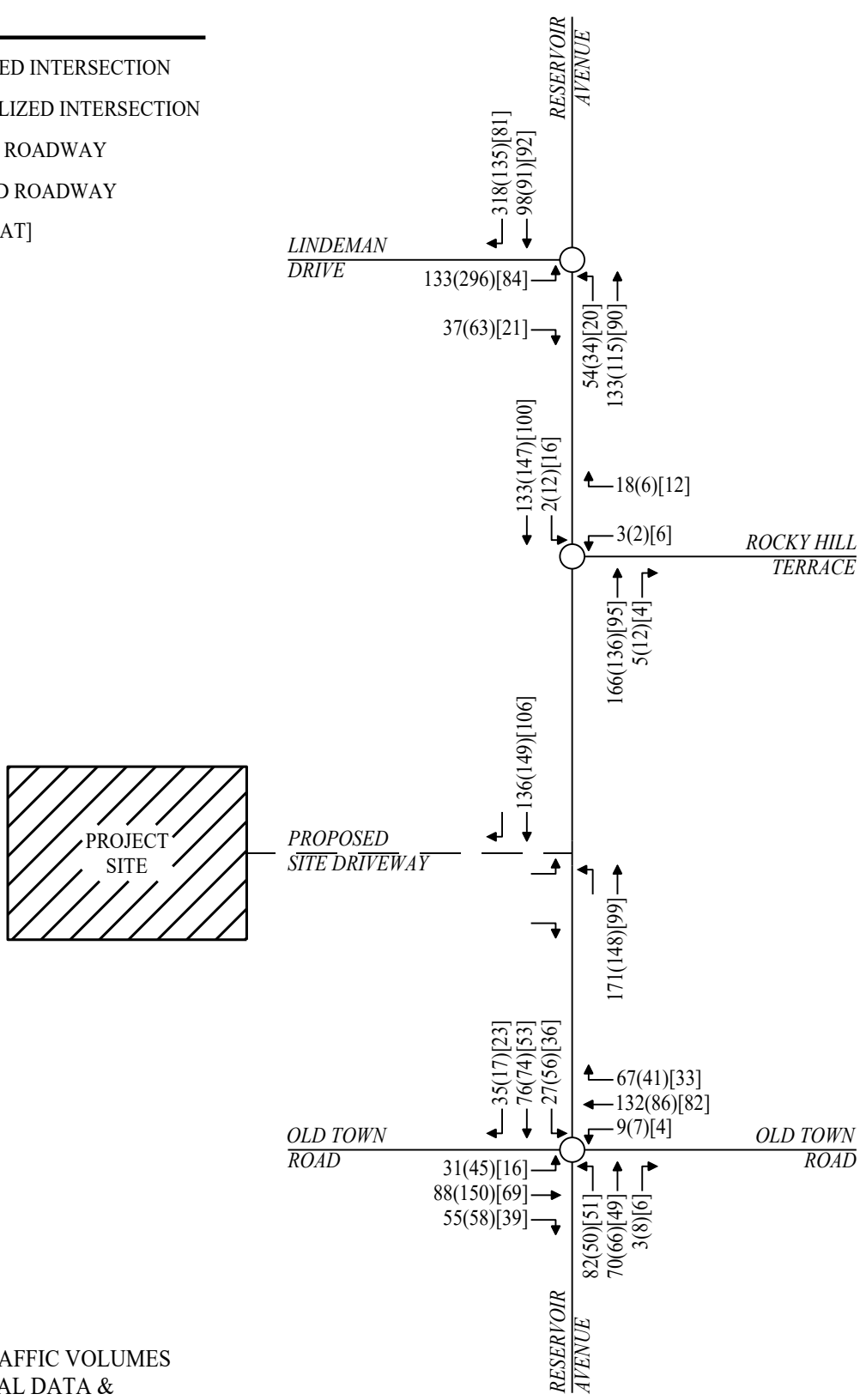
SITE LOCATION MAP

2135, 2145 & 2155 RESERVOIR AVE
TRUMBULL, CONNECTICUT

Project #:	24116901
Plan Date:	08/18/25
Scale:	1" = 1,000'
Figure:	1

LEGEND

- SIGNALIZED INTERSECTION
- UNSIGNALIZED INTERSECTION
- EXISTING ROADWAY
- PROPOSED ROADWAY
- AM(PM)[SAT]



NOTE: 2025 EXISTING TRAFFIC VOLUMES COLLECTED BY NATIONAL DATA & SURVEYING SERVICES IN JULY 2025

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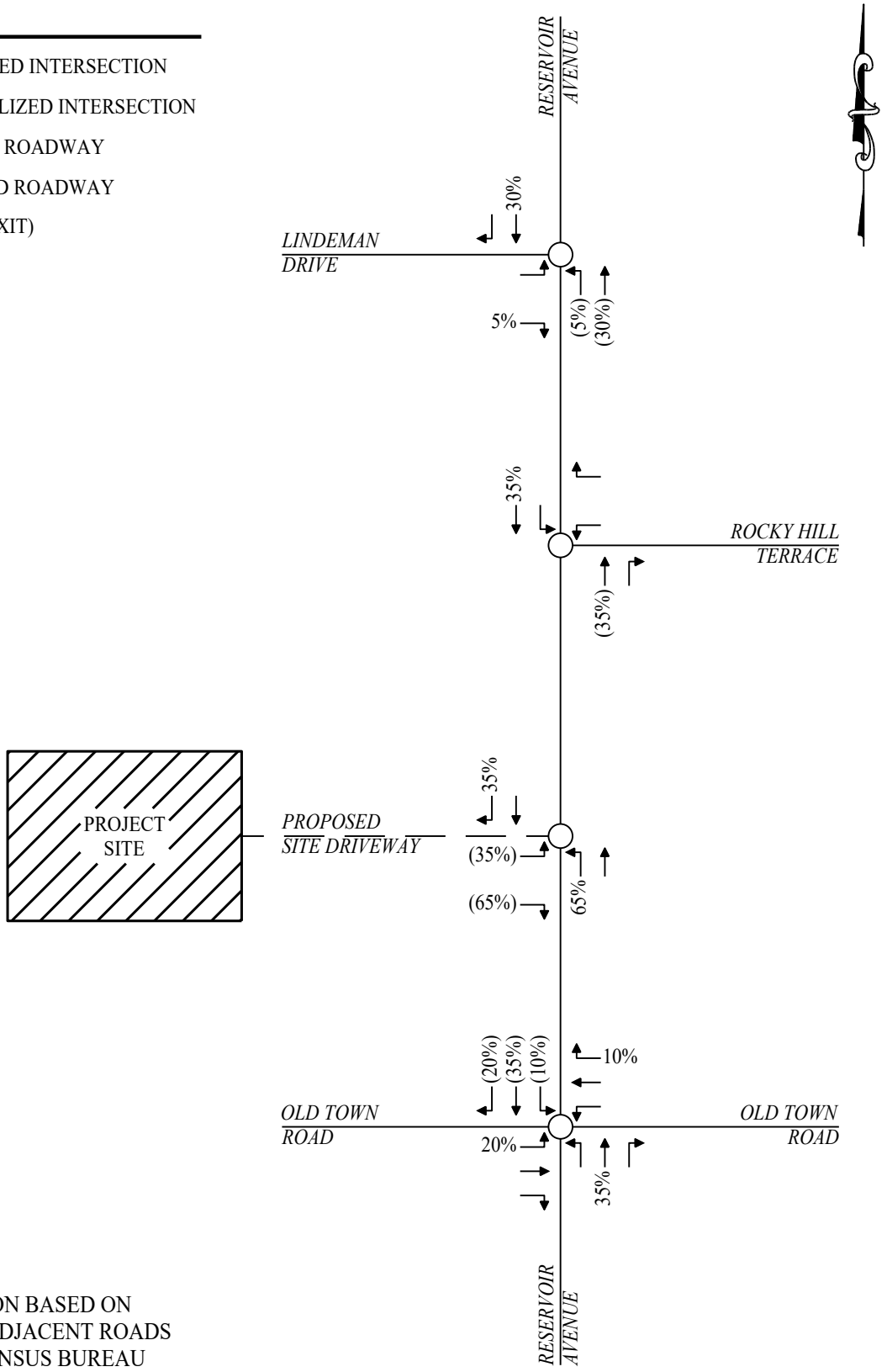
2025 EXISTING TRAFFIC VOLUMES

2135, 2145 & 2155 RESERVOIR AVE
TRUMBULL, CONNECTICUT

Project #:	24116901
Plan Date:	11/07/25
Scale:	NTS
Figure:	2

LEGEND

- SIGNALIZED INTERSECTION
- UNSIGNALIZED INTERSECTION
- EXISTING ROADWAY
- PROPOSED ROADWAY
- ENTER (EXIT)



NOTE: TRIP DISTRIBUTION BASED ON EXISTING TRAFFIC ON ADJACENT ROADS AND UNITED STATES CENSUS BUREAU DATA.

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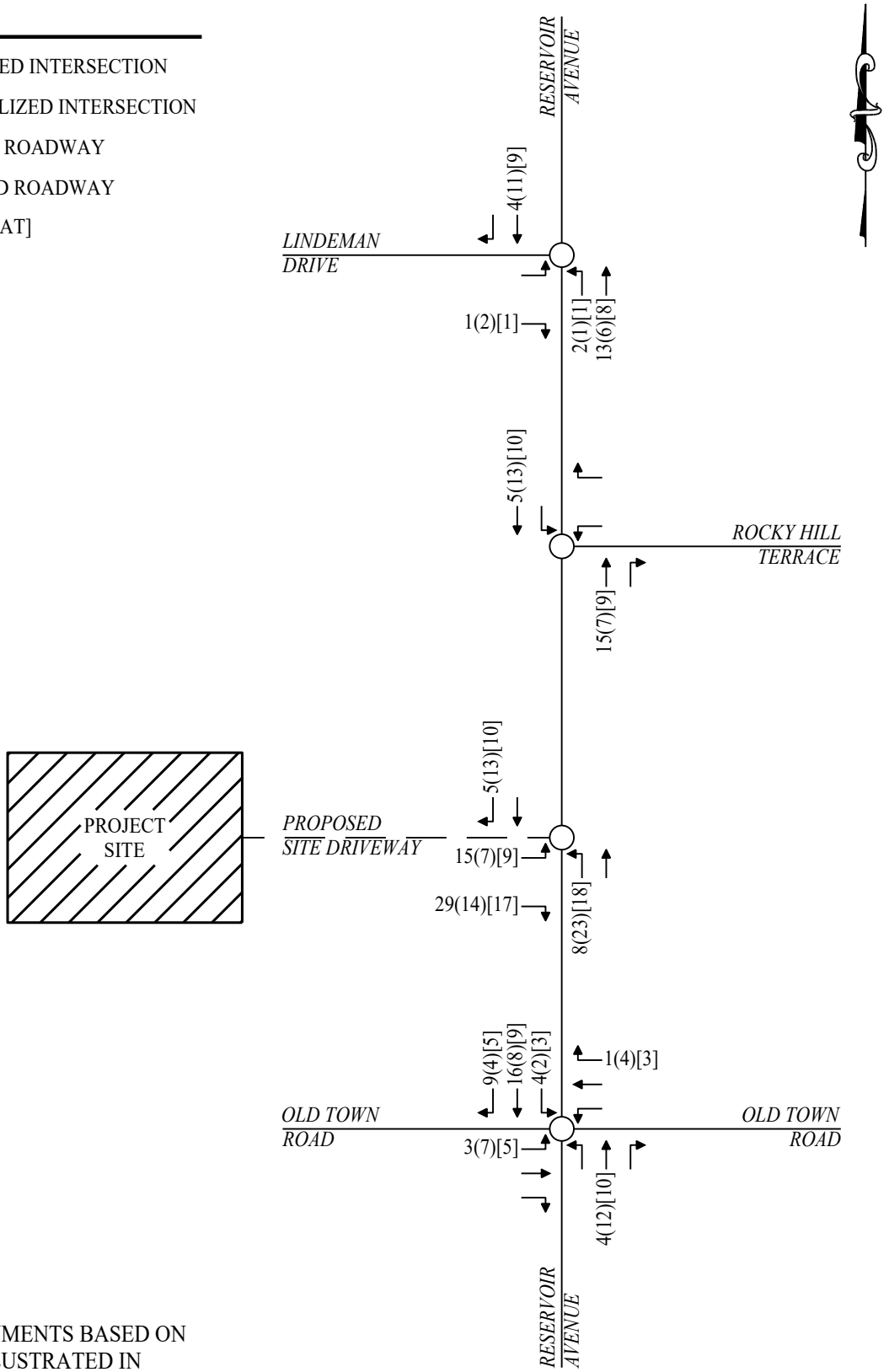
TRIP DISTRIBUTION

2135, 2145 & 2155 RESERVOIR AVE
TRUMBULL, CONNECTICUT

Project #:	24116901
Plan Date:	11/07/25
Scale:	NTS
Figure:	3

LEGEND

- SIGNALIZED INTERSECTION
- UNSIGNALIZED INTERSECTION
- EXISTING ROADWAY
- PROPOSED ROADWAY
- AM(PM)[SAT]



NOTE: NEW TRIP ASSIGNMENTS BASED ON TRIP DISTRIBUTIONS ILLUSTRATED IN FIGURE 3.

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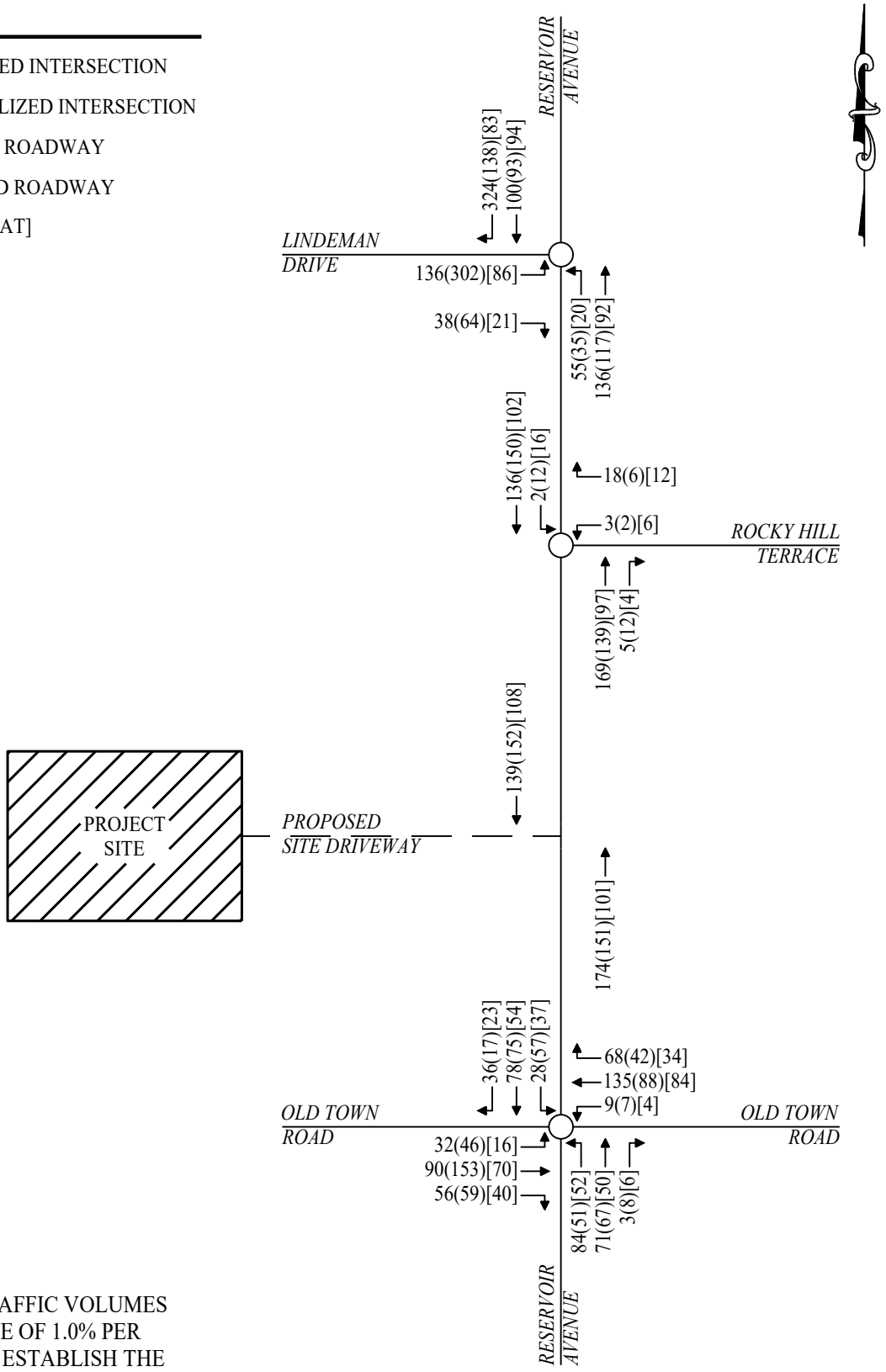
TRIP ASSIGNMENT

2135, 2145 & 2155 RESERVOIR AVE
TRUMBULL, CONNECTICUT

Project #:	24116901
Plan Date:	11/07/25
Scale:	NTS
Figure:	4

LEGEND

- SIGNALIZED INTERSECTION
- UNSIGNALIZED INTERSECTION
- EXISTING ROADWAY
- PROPOSED ROADWAY
- AM(PM)[SAT]



NOTE: 2025 EXISTING TRAFFIC VOLUMES WERE GROWN BY A RATE OF 1.0% PER YEAR OVER 2 YEARS TO ESTABLISH THE 2027 NO-BUILD TRAFFIC VOLUMES.

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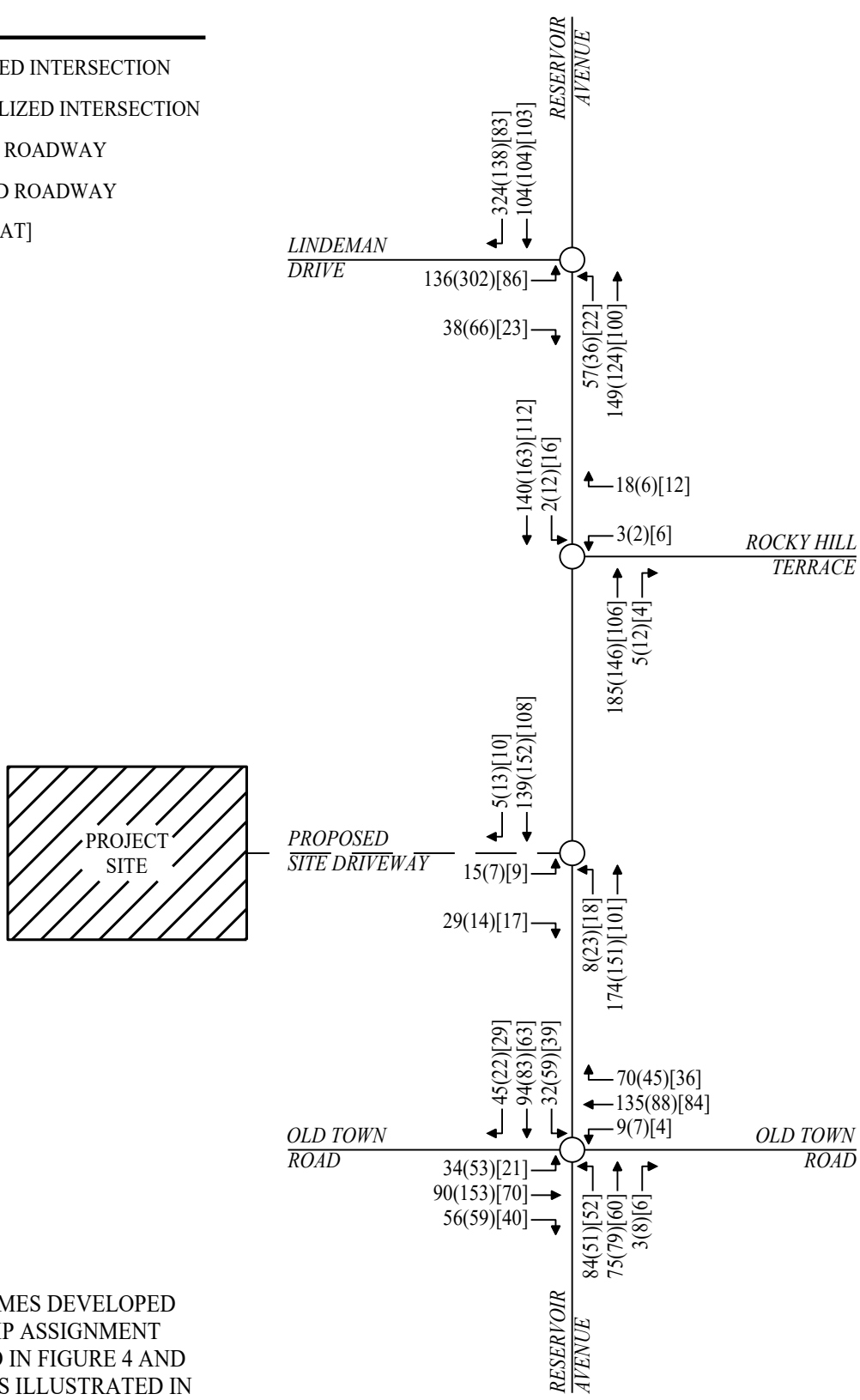
2027 NO-BUILD TRAFFIC VOLUMES

2135, 2145 & 2155 RESERVOIR AVE
TRUMBULL, CONNECTICUT

Project #:	24116901
Plan Date:	11/07/25
Scale:	NTS
Figure:	5

LEGEND

- SIGNALIZED INTERSECTION
- UNSIGNALIZED INTERSECTION
- EXISTING ROADWAY
- PROPOSED ROADWAY
- AM(PM)[SAT]



NOTE: 2027 BUILD VOLUMES DEVELOPED BY COMBINING NEW TRIP ASSIGNMENT VOLUMES ILLUSTRATED IN FIGURE 4 AND 2027 NO-BUILD VOLUMES ILLUSTRATED IN FIGURE 5.

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2027 BUILD TRAFFIC VOLUMES

2135, 2145 & 2155 RESERVOIR AVE
TRUMBULL, CONNECTICUT

Project #:	24116901
Plan Date:	11/07/25
Scale:	NTS
Figure:	6

LEGEND

- PROPERTY LINE
- ADJOINING LOT LINE
- BUILDING SETBACK
- LIMIT OF EASEMENT
- EXISTING BUILDING LIMITS
- PROPOSED BUILDING LIMITS
- PROPOSED BUILDING HATCH
- SAWCUT PAVEMENT LINE
- BITUMINOUS CONCRETE CURB
- STANDARD DUTY BITUMINOUS CONCRETE PAVEMENT
- CONCRETE SIDEWALK / PAVEMENT
- SIDEWALK LIMITS / EDGE OF PAVEMENT
- RETAINING WALL
- PAVEMENT STRIPING - WHITE STANDARD AND ADA PARKING SPACES
- (17) PARKING SPACE COUNT
- PROPOSED FUTURE ELECTRIC VEHICLE CHARGING SPACE
- DUMPSTER / TRASH RECEPTACLE
- TRAFFIC SIGN
- TRAFFIC SIGN DESIGNATION
- COMPACT SPACE
- DIRECTION OF TRAVEL

PARKING SUMMARY

PROPOSED DEVELOPMENT	UNIT	REQUIRED*	PROVIDED
APARTMENT BUILDING #1	56 1-BR UNITS 14 2-BR UNITS	84 SPACES	178* (1.19 SPACES/UNIT)
APARTMENT BUILDING #2	66 1-BR UNITS 14 2-BR UNITS	94 SPACES	

*COMPLIES WITH ITE PARKING GENERATION ESTIMATES, PARKING REQUIREMENTS FOR MULTI-FAMILY HOUSING PER CT GENERAL STATUTES SEC. 8-2(D)(9), WHICH REQUIRES 1 SPACE PER 1-BEDROOM UNIT AND 2 SPACES PER 2-BEDROOM UNIT.

BULK ZONING TABLE

DESCRIPTION	EXISTING TOWN REQUIREMENT (RESIDENTIAL ZONE A)	PROPOSED 830-g CONDITION CONSOLIDATED LOTS
MINIMUM LOT SIZE	0.5 AC.	3.83 AC.
MINIMUM ROAD FRONTAGE	125 FT	305 FT
MINIMUM FLOOR AREA		
1 STORY	1ST FLOOR: 1,200 SF 2ND FLOOR: N/A	N/A
1.5 STORY	1ST FLOOR: 900 SF 2ND FLOOR: 500 SF	N/A
2 STORY	1ST FLOOR: 900 SF 2ND FLOOR: 800 SF	N/A
MAXIMUM BUILDING HEIGHT	40 FT	±58 FT
MINIMUM YARDS		
FRONT	50 FT	86.8± FT
SIDE	20 FT	15.7± FT
REAR	50 FT	19.8± FT
MAXIMUM BUILDING COVERAGE	25%	14.9%
MAXIMUM FLOOR AREA RATIO	0.29	0.74
LOT COVERAGE	N/A	44.5%

SIGN LEGEND

A — STOP

SIZES (IN)	CONN DOT #	SUPPORTS
30"	31-0552	1

B — RESERVED PARKING PERMIT REQUIRED

SIZES (IN)	CONN DOT #	SUPPORTS
12"x24"	31-0662	1

C — RESERVED PARKING PERMIT REQUIRED VIOLATORS WILL BE FINED MIN. $250 TOW AWAY ZONE

SIZES (IN)	CONN DOT #	SUPPORTS
12"x24" 18"x9"	31-0662 31-0648	1

D — 3'-0" × 6'-0"

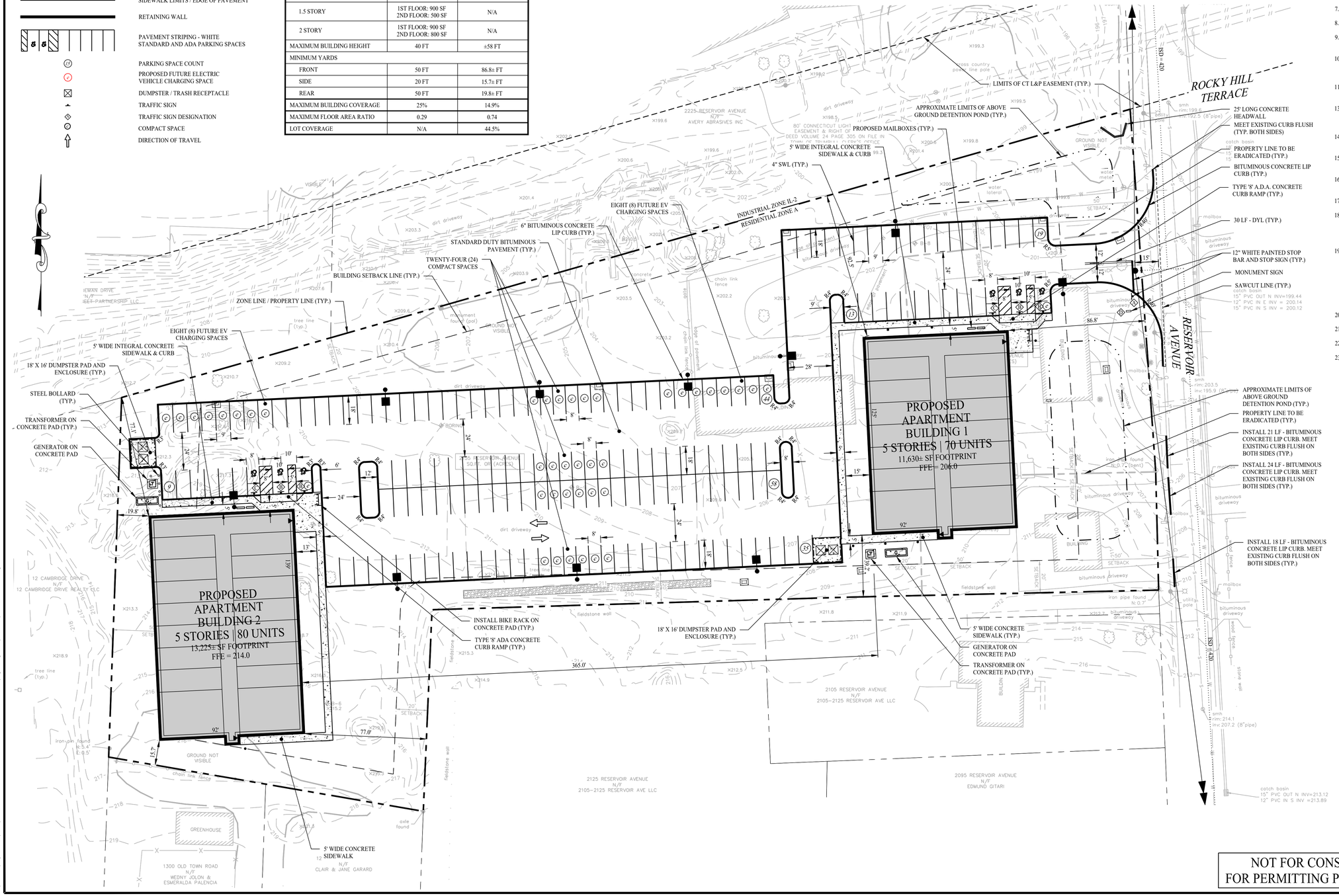
36" L x 72" H
FREE-STANDING VESSEL SIGN

E — NO PARKING LOADING ZONE

SIZES (IN)	CONN DOT #	SUPPORTS
12"x18"	31-0607	1

SITE PLAN NOTES

1. THESE PLANS ARE FOR PERMITTING PURPOSES ONLY AND ARE NOT FOR CONSTRUCTION. NO CONSTRUCTION OR DEMOLITION SHALL BEGIN UNTIL FINAL APPROVAL OF THIS PLAN IS GRANTED BY ALL GOVERNING AND REGULATORY AGENCIES.
2. ALL PROPOSED SITE WORK IS TO BE COMPLETED IN ACCORDANCE WITH ALL PERMITS, APPROVALS, AND CONDITIONS OF APPROVALS ISSUED BY LOCAL, STATE, AND/OR FEDERAL REVIEWING AGENCIES.
3. EXISTING BOUNDARY AND TOPOGRAPHY IS BASED ON DRAWING TITLED "PROPERTY SURVEY OF 2135, 2145 & 2155 RESERVOIR AVENUE, TRUMBULL, CONNECTICUT, PREPARED FOR VESSEL TECHNOLOGIES", SCALE 1"=30', DATED JULY 24, 2025, PERFORMED BY ACCURATE LAND SURVEYING, LLC.
4. ALL CONSTRUCTION SHALL COMPLY WITH, TOWN OF TRUMBULL STANDARDS AND THE CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS IN THE ABOVE REFERENCED INCREASING HIERARCHY. IF SPECIFICATIONS ARE IN CONFLICT, THE MORE STRINGENT SPECIFICATION SHALL APPLY. ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE OSHA, FEDERAL, STATE, AND LOCAL REGULATIONS.
5. THE OWNER IS RESPONSIBLE FOR OBTAINING ALL NECESSARY ZONING PERMITS REQUIRED BY GOVERNMENT AGENCIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL OBTAIN ALL COUNTY AND TOWN CONSTRUCTION PERMITS, INCLUDING CONNECTICUT DOT PERMITS AND SEWER AND WATER CONNECTION PERMITS. THE CONTRACTOR SHALL POST ALL BONDS, PAY ALL FEES, PROVIDE PROOF OF INSURANCE AND PROVIDE TRAFFIC CONTROL NECESSARY FOR THIS WORK.
6. THE CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS IN THE FIELD AND CONTACT THE SITE/CIVIL ENGINEER IF THERE ARE ANY QUESTIONS OR CONFLICTS REGARDING THE CONSTRUCTION DOCUMENTS AND/OR FIELD CONDITIONS.
7. THE CONTRACTOR SHALL FOLLOW THE SEQUENCE OF CONSTRUCTION NOTES PROVIDED ON THE EROSION CONTROL PLAN.
8. THE CONTRACTOR SHALL REFERENCE ARCHITECTURAL PLANS FOR EXACT DIMENSIONS AND CONSTRUCTION DETAILS OF BUILDING, AND THE RAISED CONCRETE SIDEWALKS AND RAMPS.
9. SHOULD ANY UNCHARTED OR INCORRECTLY CHARTED, EXISTING PIPING, OR OTHER UTILITY BE UNCOVERED DURING EXCAVATION, CONSULT THE SITE/CIVIL ENGINEER IMMEDIATELY FOR DIRECTIONS BEFORE PROCEEDING FURTHER WITH WORK IN THIS AREA.
10. DO NOT INTERRUPT EXISTING UTILITIES SERVICING FACILITIES OCCUPIED AND USED BY THE OWNER OR OTHERS DURING OCCUPIED HOURS EXCEPT WHEN SUCH INTERRUPTIONS HAVE BEEN AUTHORIZED IN WRITING BY THE OWNER AND THE LOCAL MUNICIPALITIES. INTERRUPTIONS SHALL ONLY OCCUR AFTER ACCEPTABLE TEMPORARY SERVICE HAS BEEN PROVIDED.
11. ALL SITE DIMENSIONS ARE REFERENCED TO THE FACE OF CURBS OR EDGE OF PAVING AS APPLICABLE UNLESS OTHERWISE NOTED. ALL BUILDING DIMENSIONS ARE REFERENCED TO THE OUTSIDE FACE OF THE STRUCTURE.
13. TRAFFIC CONTROL SIGNAGE SHALL CONFORM TO THE STATE DOT STANDARD DETAIL SHEETS AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. SIGNS SHALL BE INSTALLED PLUMB WITH THE EDGE OF THE SIGN 2' OFF THE FACE OF THE CURB, AND WITH 7' VERTICAL CLEARANCE UNLESS OTHERWISE DETAILED OR NOTED.
14. PAVEMENT MARKING KEY:
    4" SWL - 4" SOLID WHITE LINE
    4" DYL - 4" DOUBLE YELLOW LINE
15. PARKING SPACES SHALL BE STRIPED WITH 4" SWL; HATCHED AREA SHALL BE STRIPED WITH 4" SWL AT A 45° ANGLE, 2' ON CENTER. HATCHING, SYMBOLS, AND STRIPING FOR HANDICAPPED SPACES SHALL BE PAINTED BLUE. OTHER MARKINGS SHALL BE PAINTED WHITE OR AS NOTED.
16. THE CONTRACTOR SHALL RESTORE ANY DRAINAGE STRUCTURE, PIPE, UTILITY, PAVEMENT, CURBS, SIDEWALKS, LANDSCAPED AREAS OR SIGNAGE DISTURBED DURING CONSTRUCTION TO THEIR ORIGINAL CONDITION OR BETTER, AS APPROVED BY THE SITE/CIVIL ENGINEER.
17. THE CONTRACTOR SHALL PROVIDE AS-BUILT RECORDS OF ALL CONSTRUCTION (INCLUDING UNDERGROUND UTILITIES) TO THE OWNER AT THE END OF CONSTRUCTION.
18. THE ARCHITECT AND SITE/CIVIL ENGINEER ARE NOT RESPONSIBLE FOR SITE SAFETY MEASURES TO BE EMPLOYED DURING CONSTRUCTION. THE ARCHITECT AND SITE/CIVIL ENGINEER HAVE NO CONTRACTUAL DUTY TO CONTROL THE SAFEST METHODS OR MEANS OF THE WORK, JOB SITE RESPONSIBILITIES, SUPERVISION OR TO SUPERVISE SAFETY AND DOES NOT VOLUNTARILY ASSUME ANY SUCH DUTY OR RESPONSIBILITY.
19. INFORMATION ON EXISTING UTILITIES AND STORM DRAINAGE SYSTEMS HAS BEEN COMPILED FROM AVAILABLE INFORMATION INCLUDING UTILITY PROVIDER AND MUNICIPAL RECORD MAPS AND/OR FIELD SURVEY AND IS NOT GUARANTEED CORRECT OR COMPLETE. UTILITIES AND STORM DRAINAGE SYSTEMS ARE SHOWN TO ALERT THE CONTRACTOR TO THEIR PRESENCE AND THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ACTUAL LOCATIONS AND ELEVATIONS OF ALL UTILITIES AND STORM DRAINAGE SYSTEMS INCLUDING SERVICES. PRIOR TO DEMOLITION OR CONSTRUCTION, THE CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" 72 HOURS BEFORE COMMENCEMENT OF WORK AT "(800) 922-4455" AND VERIFY ALL UTILITY AND STORM DRAINAGE SYSTEM LOCATIONS.
20. NO PART OF THE PROJECT PARCEL IS LOCATED WITHIN ANY FEMA DESIGNATED FLOOD HAZARD AREAS.
21. FIRE LANES SHALL BE ESTABLISHED AND PROPERLY DESIGNATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FIRE DISTRICT FIRE MARSHAL.
22. ALL PAVEMENT MARKINGS WITHIN RIGHT OF WAY SHOULD BE RESTORED TO THEIR ORIGINAL STATE.
23. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS FOR ACTUAL LOCATIONS OF ALL DOORS, UTILITY ENTRANCES TO INCLUDE SANITARY SEWER LATERALS, DOMESTIC WATER SERVICE, ELECTRICAL, TELEPHONE AND GAS SERVICE, ROOF DRAINS, AND ALL OTHER UTILITIES. CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO AVOID CONFLICTS AND TO ENSURE PROPER DEPTHS ARE ACHIEVED AS WELL AS COORDINATING WITH THE REGULATORY AGENCY AS TO LOCATION OF AND SCHEDULING OF CONNECTIONS TO THEIR FACILITIES. THE ARCHITECTURAL PLANS ARE NOT INCLUDED AS A PART OF THIS PERMITTING PLAN SET AND WILL BE PROVIDED UNDER A SEPARATE COVER.



Rev. #:	Date	Description

Graphic Scale: 30 0 30 60

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MONROE, CT | W. HARTFORD, CT | NORWOOD, MA
SOLLIENGINEERING.COM
T: (203) 880-5455 | F: (203) 880-9695

Drawn By:	ARM
Checked By:	LAM
Approved By:	KMS
Project #:	24116901
Plan Date:	11/07/25
Scale:	1" = 30'

Kevin Solli, P.E.
CT 25759

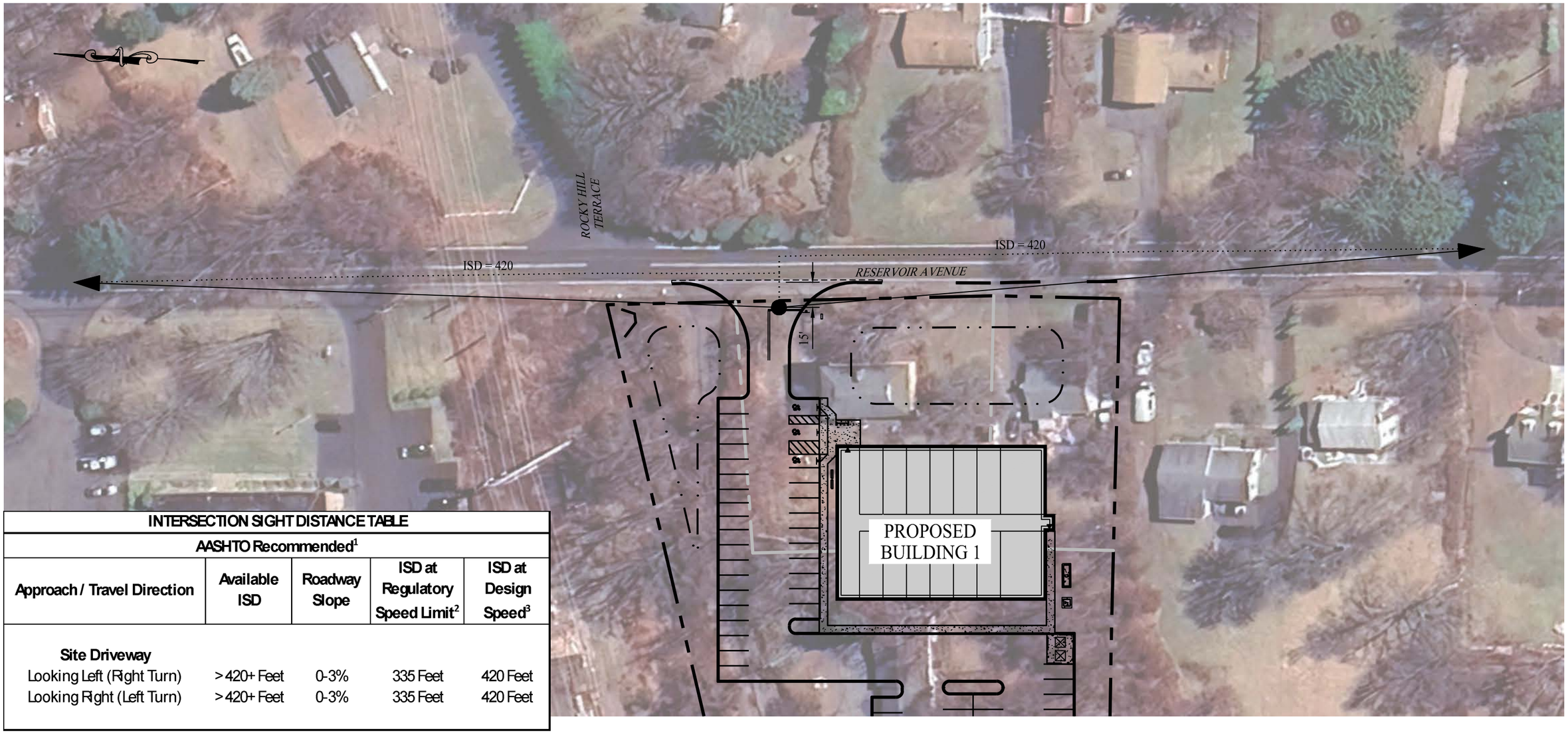
Project:

PROPOSED REDEVELOPMENT

2135, 2145, & 2155 RESERVOIR AVENUE
TRUMBULL, CONNECTICUT

Sheet Title:	Sheet #:
SITE PLAN	2.11

Nov 06, 2025 - 4:16pm amogoulios
X:\SE Files\Project Data\2024\24116901 - 2135, 2145, 2155 Reservoir Ave - Trumbull, CT\Engineering Data\CAD Files\24116901 - 2.11.dwg



INTERSECTION SIGHT DISTANCE TABLE				
AASHTO Recommended[1]				
Approach / Travel Direction	Available ISD	Roadway Slope	ISD at Regulatory Speed Limit[2]	ISD at Design Speed[3]
Site Driveway				
Looking Left (Right Turn)	> 420+ Feet	0-3%	335 Feet	420 Feet
Looking Right (Left Turn)	> 420+ Feet	0-3%	335 Feet	420 Feet

[1]Recommended sight distance based on AASHTO, A Policy on Geometric Design of Highways and Streets. Based on driver height of eye of 3.5 feet to object height of 2.0 feet.

[2]Regulatory Speed Limit: 30 MPH

[3]Design Speed: 38 MPH northbound, 38 MPH southbound

NOTES:

1. INTERSECTION SIGHT DISTANCE MEASURED 15 FEET FROM THE CURB.
2. INTERSECTION SIGHT DISTANCE BASED ON AN 85TH PERCENTILE SPEED OF 38 MPH NORTHBOUND AND 38 MPH SOUTHBOUND. SPEED DATA COLLECTED BY ATR AT PROPOSED SITE DRIVEWAY IN AUGUST 2025.
3. INTERSECTION SIGHT DISTANCE EVALUATED PER CTDOT HIGHWAY DESIGN MANUAL.
4. INTERSECTION SIGHT DISTANCE LOOKING LEFT EXTENDS INTO THE INTERSECTION OF RESERVOIR AVENUE AND ROCKY HILL ROAD.

60 0 30 60

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Drawn By:	RHF
Checked By:	KMS
Project #:	24116901
Plan Date:	09/12/25
Scale:	1" = 60'

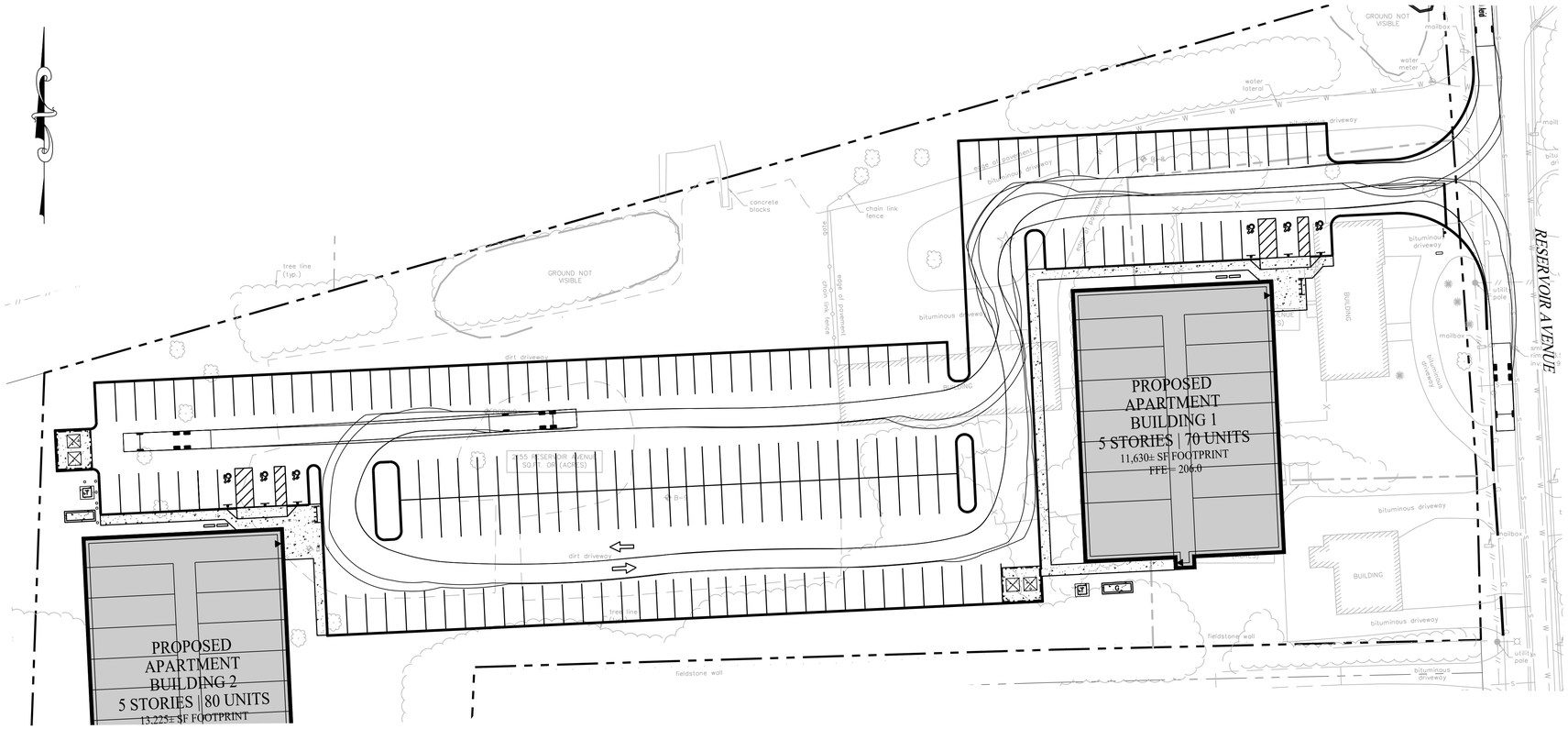
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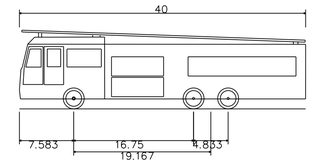
PROPOSED DEVELOPMENT
2135, 2145, 2155 RESERVOIR AVENUE
TRUMBULL, CONNECTICUT

Title:

INTERSECTION SIGHT DISTANCE

ISD-1

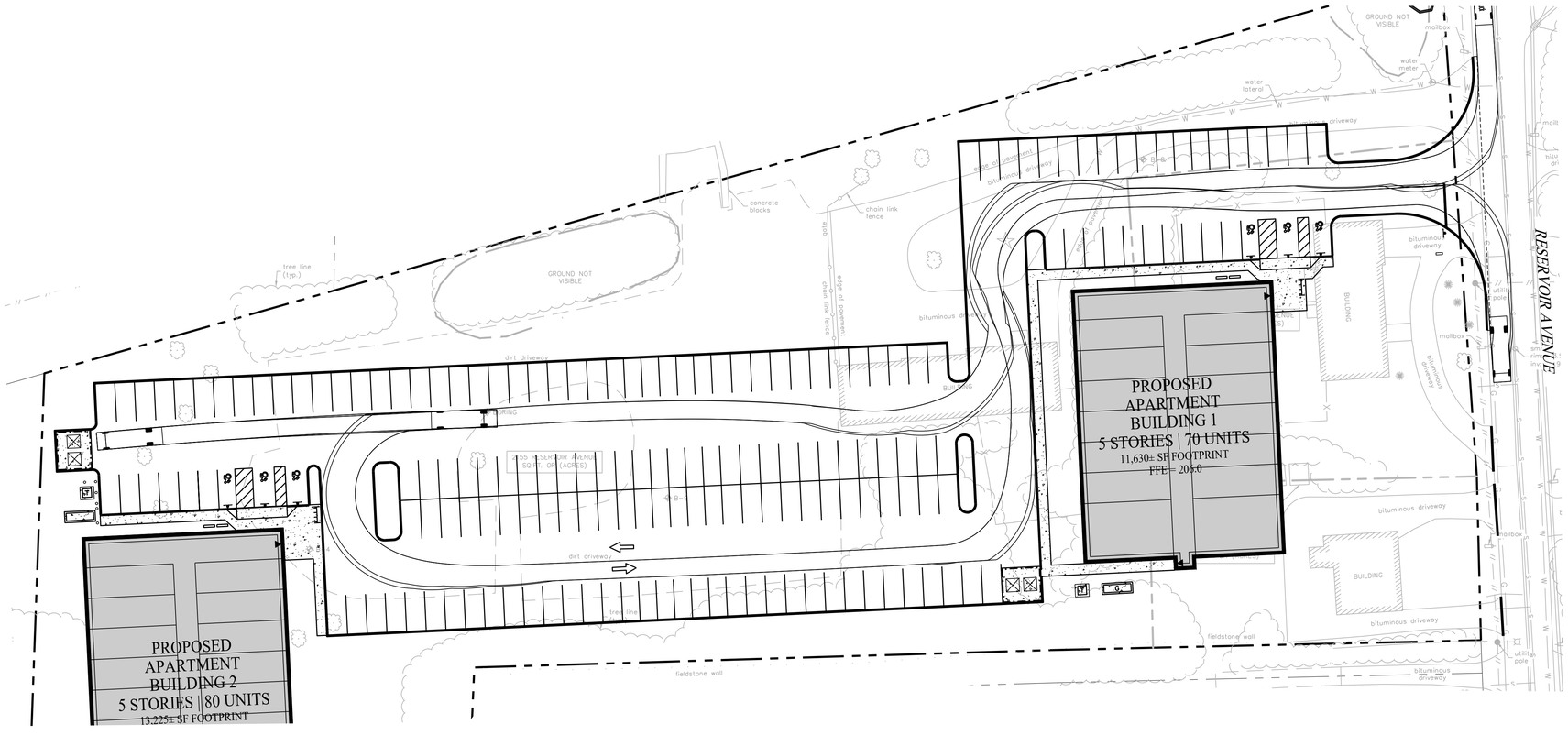


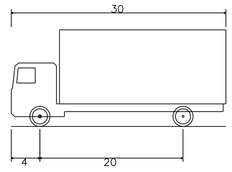


E-ONE HP100 Aerial	
Overall Length	40.000ft
Overall Width	8.333ft
Overall Body Height	11.000ft
Min Body Ground Clearance	1.393ft
Track Width	8.333ft
Lock-to-lock time	6.00s
Max Wheel Angle	45.00°

FIRE APPARATUS

SCALE: NTS





SU-30 - Single Unit Truck	
Overall Length	30.000ft
Overall Width	8.000ft
Overall Body Height	13.500ft
Min Body Ground Clearance	1.367ft
Track Width	8.000ft
Lock-to-lock time	5.00s
Max Steering Angle (Virtual)	31.80°

SU-30

SCALE: NTS

Rev. #:	Date	Description

Graphic Scale: 30 0 30 60

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Drawn By:	ARM
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Approved By:	KMS
Project #:	24116901
Plan Date:	11/07/25
Scale:	1" = 30'

Kevin Solli, P.E.
CT 25759

Project:

PROPOSED REDEVELOPMENT

2135, 2145, & 2155 RESERVOIR AVENUE
TRUMBULL, CONNECTICUT

Sheet Title: TRUCK TURNING FIGURE

Sheet #: TT-1

Nov 05, 2025 - 3:32pm amogoulos
X:\SE Files\Project Data\2024\24116901 - 2135, 2145, 2155 Reservoir Ave - Trumbull, CT\Engineering Data\CAD Files\24116901 - Truck Turn.dwg

PEAK HOUR TRIP GENERATION SUMMARY
PROPOSED DEVELOPMENT
2135, 2145, & 2155 RESERVOIR AVENUE - TRUMBULL, CT

	Variable		LUC	AM Peak Hour			PM Peak Hour			SAT Peak Hour		
				Enter	Exit	Total	Enter	Exit	Total	Enter	Exit	Total
Multifamily Housing (Mid-Rise) Not Close to Rail Transit	70	Units	221	6	21	27	17	10	27	13	12	25
Multifamily Housing (Mid-Rise) Not Close to Rail Transit	80	Units	221	7	23	30	19	11	30	15	14	29
Net New Trips				**13**	**44**	**57**	**36**	**21**	**57**	**28**	**26**	**54**

Source: ITE Trip Generation, 12th Edition

Land Use	Time Period	Average Rate	Enter	Exit
LUC 221 - Multifamily Housing (Mid-Rise) Not Close to Rail Transit	AM	0.38	23%	77%
	PM	0.38	64%	36%
	SAT	0.36	51%	49%

Solli

Land Use: 221
Multifamily Housing (Mid-Rise)

Description

Mid-rise multifamily housing is a residential building with between four and 10 floors of residence. Access to individual dwelling units is through an outside building entrance, a lobby, elevator, and a set of hallways.

Land Use Subcategory

Data are presented for two subcategories for this land use: (1) not close to rail transit and (2) close to rail transit. A site is considered close to rail transit if the walking distance between the residential site entrance and the closest rail transit station entrance is ½ mile or less.

Additional Data

For the six sites for which both the number of residents and the number of occupied dwelling units were available, there was an average of 2.5 residents per occupied dwelling unit.

For the five sites for which the numbers of both total dwelling units and occupied dwelling units were available, an average of 96 percent of the total dwelling units were occupied.

It is expected that the number of bedrooms and number of residents are likely correlated to the trips generated by a residential site. To assist in future analysis, trip generation studies of all multifamily housing should attempt to obtain information on occupancy rate and on the mix of residential unit sizes (i.e., number of units by number of bedrooms at the site complex).

The sites were surveyed in the 2000s, the 2010s, and the 2020s in Alberta (CAN), California, District of Columbia, Florida, Georgia, Massachusetts, Minnesota, Montana, New Jersey, New York, Ontario (CAN), Oregon, and Virginia.

Source Numbers

818, 857, 862, 866, 901, 904, 910, 949, 951, 963, 964, 966, 967, 969, 970, 1004, 1014, 1022, 1023, 1025, 1031, 1032, 1035, 1047, 1057, 1058, 1071, 1076, 1219, 1292

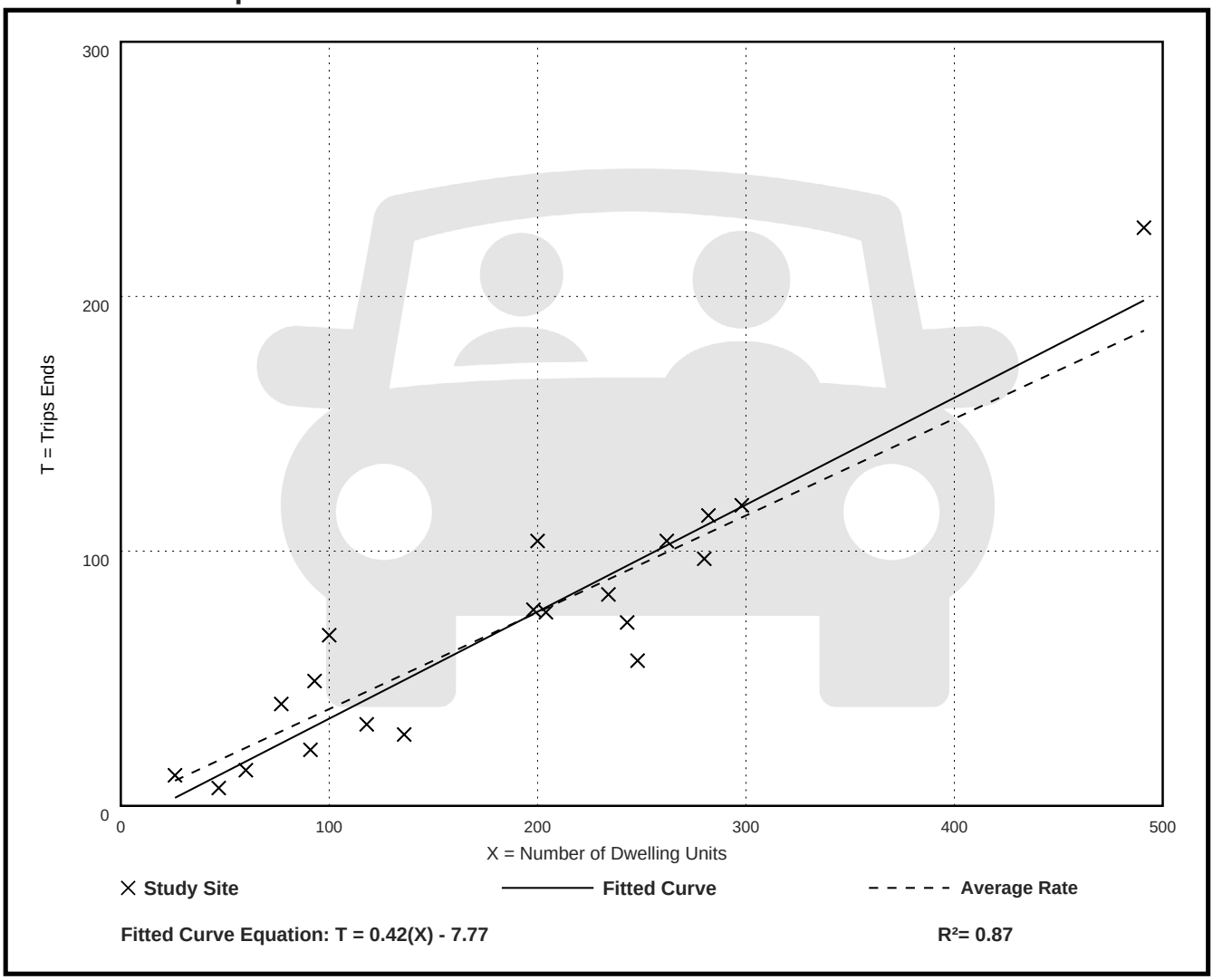
Multifamily Housing (Mid-Rise)
Not Close to Rail Transit (221)

Vehicle Trip Ends vs:	**Dwelling Units**
On a:	**Weekday,**
	Peak Hour of Adjacent Street Traffic,
	One Hour Between 7 and 9 a.m.
Setting/Location:	**General Urban/Suburban**
Number of Studies:	20
Avg. Num. of Dwelling Units:	184
Directional Distribution:	23% entering, 77% exiting

Vehicle Trip Generation per Dwelling Unit

Average Rate	Range of Rates	Standard Deviation
0.38	0.15 - 0.67	0.10

Data Plot and Equation



Fitted Curve Equation: T = 0.42(X) - 7.77

R^2= 0.87

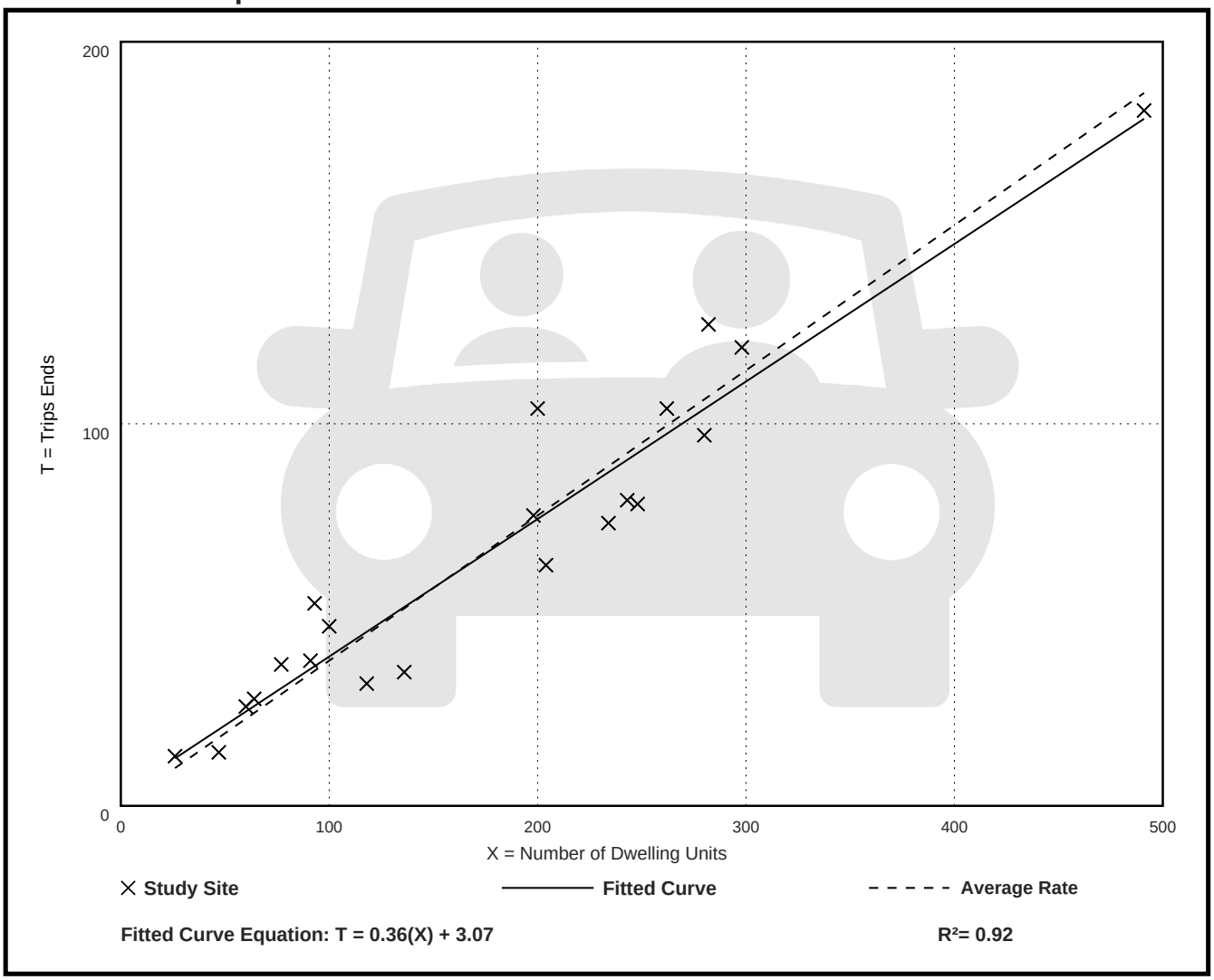
Multifamily Housing (Mid-Rise)
Not Close to Rail Transit (221)

Vehicle Trip Ends vs:	**Dwelling Units**
On a:	**Weekday,**
	Peak Hour of Adjacent Street Traffic,
	One Hour Between 4 and 6 p.m.
Setting/Location:	**General Urban/Suburban**
Number of Studies:	21
Avg. Num. of Dwelling Units:	179
Directional Distribution:	64% entering, 36% exiting

Vehicle Trip Generation per Dwelling Unit

Average Rate	Range of Rates	Standard Deviation
0.38	0.26 - 0.57	0.07

Data Plot and Equation



Fitted Curve Equation: T = 0.36(X) + 3.07

R^2= 0.92

Multifamily Housing (Mid-Rise)
Not Close to Rail Transit (221)

Vehicle Trip Ends vs: **Dwelling Units**
On a: **Saturday, Peak Hour of Generator**

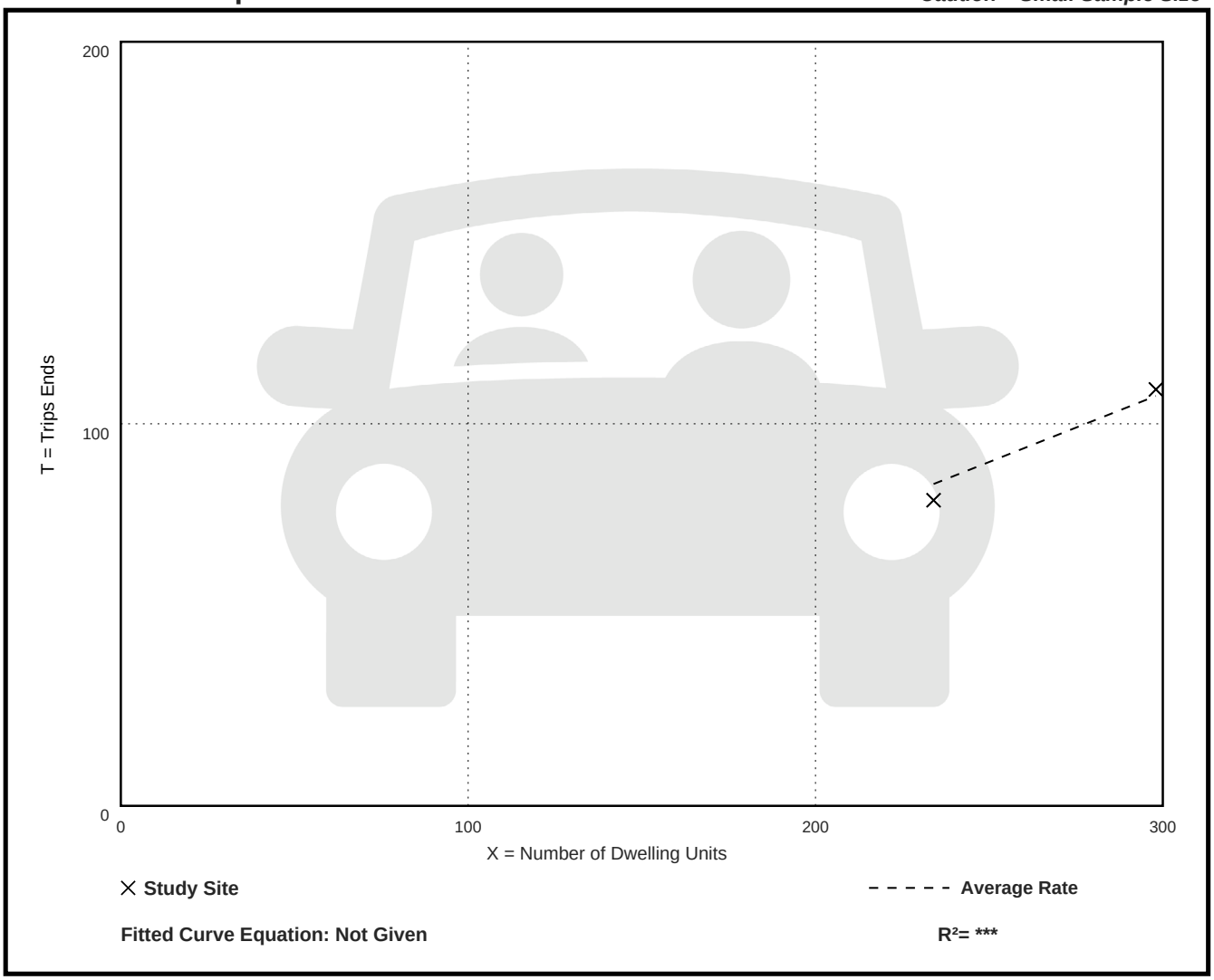
Setting/Location: **General Urban/Suburban**
Number of Studies: 2
Avg. Num. of Dwelling Units: 266
Directional Distribution: 51% entering, 49% exiting

Vehicle Trip Generation per Dwelling Unit

Average Rate	Range of Rates	Standard Deviation
0.36	0.34 - 0.37	***

Data Plot and Equation

Caution – Small Sample Size



Fitted Curve Equation: Not Given

R^2= *

Land Use: 218 Multifamily Housing—1 BR (Mid-Rise)

Description

Mid-rise multifamily housing with one bedroom is a residential building with between four and 10 floors (levels) of residence that consist entirely of 1-bedroom dwelling units. A studio or micro-apartment or condominium is treated as a 1-bedroom dwelling unit for this land use.

For this land use, a studio apartment is defined as a self-contained dwelling unit in which the living room, bedroom, and kitchen are combined into a single room. A micro-apartment is defined as a single-occupant studio apartment with a compact design that typically ranges between approximately 200 and 400 gross square feet. Access to individual dwelling units is through an outside building entrance, a lobby, elevator, and a set of hallways.

Land Use Subcategory

Data are separated into two subcategories for this land use: (1) not close to rail transit and (2) close to rail transit. A site is considered close to rail transit if the walking distance between the residential site entrance and the closest rail transit station entrance is ½ mile or less.

Time-of-Day Distribution for Parking Demand

The current database for this land use does not have sufficient data to produce a detailed, hour-by-hour distribution of parking demand from which the analyst can determine a peak period of parking demand. Based on the time periods for which data were collected for this land use and on a review of comparable land uses with hour-by-hour parking demand data, the presumed peak period for parking demand for this land use is between late-evening and early-morning.

Additional Data

The average parking supply ratios for the study sites with parking supply information are shown in the table below.

Setting	Proximity to Rail Transit	Parking Supply Per Dwelling Unit
Center City Core	Within ½ mile of rail transit	0.19 (4 sites)
Dense Multi-Use Urban	Within ½ mile of rail transit	0.31 (3 sites)
	Not within ½ mile of rail transit	0.53 (7 sites)
General Urban/Suburban	Within ½ mile of rail transit	0.88 (2 sites)
	Not within ½ mile of rail transit	0.71 (1 site)

The average peak parking occupancy at the 14 sites in a dense multi-use urban or center city core setting is 67 percent. The average peak parking occupancy at the three sites in a general urban/ suburban setting is 77 percent.

The sites were surveyed in the 2010s and the 2020s in Colorado, District of Columbia, Massachusetts, and Wisconsin.

Source Numbers

537, 546, 583, 584, 585, 608

Multifamily Housing - 1 BR (Mid-Rise)
Not Close to Rail Transit (218)

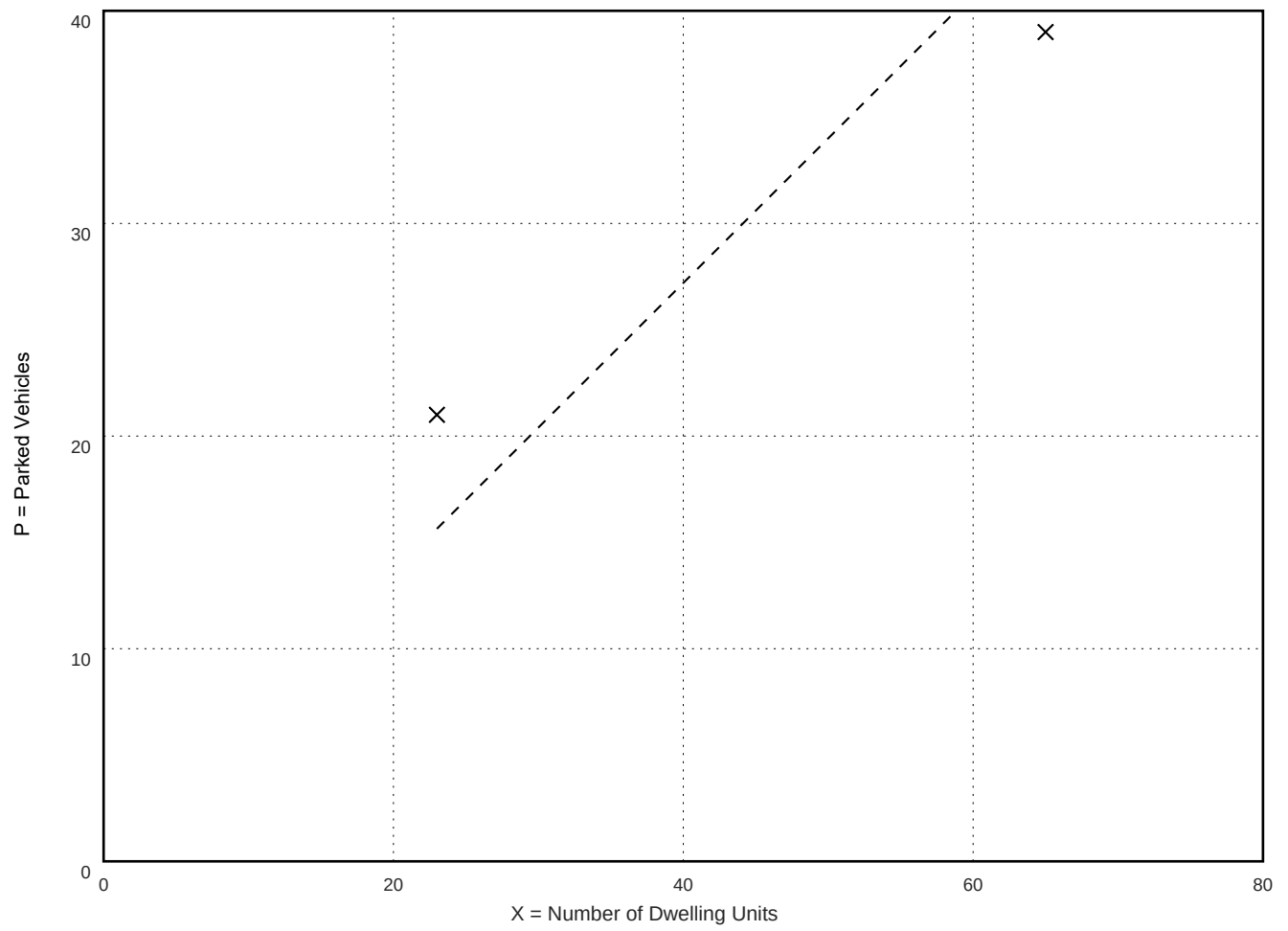
Peak Period Parking Demand vs: Dwelling Units
On a: Weekday (Monday - Friday)
Setting/Location: General Urban/Suburban
Number of Studies: 2
Avg. Num. of Dwelling Units: 44

Peak Period Parking Demand per Dwelling Unit

Average Rate	Range of Rates	33rd / 85th Percentile	95% Confidence Interval	Standard Deviation (Coeff. of Variation)
0.68	0.60 - 0.91	*** / ***	***	*** (***)

Data Plot and Equation

Caution – Small Sample Size



Land Use: 221 Multifamily Housing—2+ BR (Mid-Rise)

Description

Mid-rise multifamily housing with two or more bedrooms is a residential building with between four and 10 floors (levels) of residence that contain at least one dwelling unit with two or more bedrooms. Access to individual dwelling units is through an outside building entrance, a lobby, elevator, and a set of hallways.

Land Use Subcategory

Data are separated into two subcategories for this land use: (1) not close to rail transit and (2) close to rail transit. A site is considered close to rail transit if the walking distance between the residential site entrance and the closest rail transit station entrance is ½ mile or less.

Time-of-Day Distribution for Parking Demand

The following table presents a composite (weekday and Saturday) Time-of-Day distribution of parking demand for three general urban/suburban study sites.

Hour Beginning	Percent of Peak Parking Demand
	Weekday/Saturday Composite
12:00-4:00 a.m.	100
5:00 a.m.	96
6:00 a.m.	86
7:00 a.m.	77
8:00 a.m.	66
9:00 a.m.	60
10:00 a.m.	57
11:00 a.m.	55
12:00 p.m.	52
1:00 p.m.	50
2:00 p.m.	52
3:00 p.m.	51
4:00 p.m.	57
5:00 p.m.	62
6:00 p.m.	65
7:00 p.m.	68
8:00 p.m.	75
9:00 p.m.	82
10:00 p.m.	87
11:00 p.m.	91

Additional Data

The average parking supply ratios and average peak parking occupancy for the study sites with parking supply information are shown in the table below.

Setting	Proximity to Rail Transit	Parking Supply Per Dwelling Unit	Average Peak Parking Occupancy
Center City Core	Within ½ mile of rail transit	0.73 (8 sites)	69%
Dense Multi-Use Urban	Within ½ mile of rail transit	0.88 (31 sites)	81%
	Not within ½ mile of rail transit	1.1 (35 sites)	76%
General Urban/ Suburban	Within ½ mile of rail transit	1.5 (6 sites)	74%
	Not within ½ mile of rail transit	1.7 (38 sites)	72%

The sites were surveyed in the 1990s, the 2000s, the 2010s, and the 2020s in California, Connecticut, District of Columbia, Maine, Maryland, Massachusetts, North Carolina, Ontario (CAN), Oregon, Tennessee, Virginia, Washington, and Wisconsin.

Source Numbers

209, 255, 277, 402, 419, 505, 512, 533, 535, 536, 537, 545, 546, 547, 575, 576, 577, 579, 581, 583, 584, 585, 587. 602, 603, 604, 620, 631

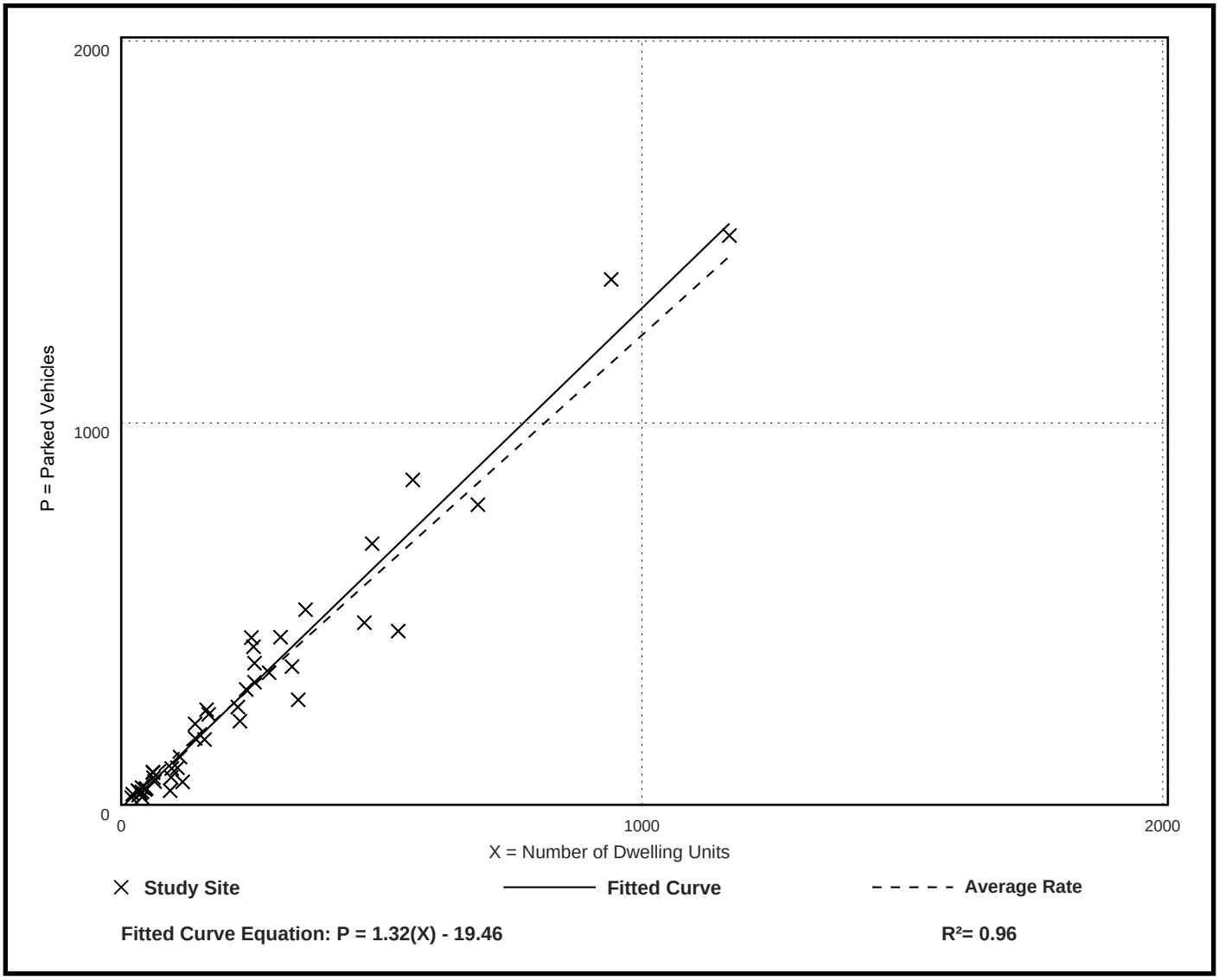
Multifamily Housing - 2+ BR (Mid-Rise)
Not Close to Rail Transit (221)

Peak Period Parking Demand vs: Dwelling Units
On a: Weekday (Monday - Friday)
Setting/Location: General Urban/Suburban
Number of Studies: 44
Avg. Num. of Dwelling Units: 231

Peak Period Parking Demand per Dwelling Unit

Average Rate	Range of Rates	33rd / 85th Percentile	95% Confidence Interval	Standard Deviation (Coeff. of Variation)
1.23	0.39 - 1.75	0.98 / 1.45	1.15 - 1.31	0.27 (22%)

Data Plot and Equation



Fitted Curve Equation: P = 1.32(X) - 19.46

R^2= 0.96

ACCIDENT SUMMARY TABLE - 2022 TO 2025

PROPOSED DEVELOPMENT

2135, 2145, 2155 RESERVOIR AVE, TRUMBULL, CT

ACCIDENT TYPE AND SEVERITY	Reservoir Avenue at Lindeman Drive [Intersection 1]	Reservoir Avenue at Rocky Hill Terrace [Intersection 2]	Reservoir Avenue along Property Frontage (2135, 2145, 2155 Reservoir Ave)	TOTAL
Accident Type:				
Rear-end	1	0	0	1
Angle	4	0	0	4
Sideswipe, Same Direction	0	0	0	0
Sideswipe, Opposite Direction	0	0	1	1
Front to Front	0	0	0	0
Single Vehicle	0	0	0	0
Other	0	0	0	0
Accident Severity:				
Fatality	0	0	0	0
Injury Any Type	2	0	0	2
Property Damage Only	3	0	1	4
Road Surface Condition:				
Dry	3	0	1	4
Wet	2	0	0	2
Snow/Ice	0	0	0	0
TOTAL NUMBER OF ACCIDENTS	5	0	1	6

Source: UCONN Connecticut Crash Data Repository

Destination Analysis

Workers: *Living in 06611*
Showing: *Employment locations grouped by ZIP Codes (ZCTA)*

Total All Jobs

	2022	
	Count	**Share**
Total All Jobs	17,711	100.0%

Job Counts by ZIP Codes (ZCTA) Where Workers are Employed - All Jobs

		2022		North	South	East	West
Zip Code	**Town**	**Count**	**Share**	Reservoir Ave		Old Town Rd	
06611	Trumbull	1,319	7.4%	4.47%		0.74%	2.23%
06484	Shelton	892	5.0%	3.02%		2.01%	
06824	Fairfield	816	4.6%		3.69%		0.92%
06604	Bridgeport	707	4.0%	0.40%	3.19%	0.40%	
06902	Stamford	648	3.7%		1.83%		1.83%
06880	Westport	545	3.1%		1.23%		1.85%
06851	Norwalk	490	2.8%		1.11%		1.66%
06606	Bridgeport	452	2.6%		2.04%		0.51%
06615	Stratford	445	2.5%	0.25%	2.26%		0.00%
06901	Stamford	440	2.5%		1.24%		1.24%
06614	Stratford	415	2.3%	1.64%		0.70%	
06897	Wilton	403	2.3%				2.28%
06825	Fairfield	394	2.2%		1.33%		0.89%
06460	Milford	391	2.2%	1.32%		0.88%	
06510	New Haven	376	2.1%	1.49%	0.64%		
06810	Danbury	358	2.0%	1.82%			0.20%
06468	Monroe	302	1.7%	1.53%		0.17%	
06511	New Haven	297	1.7%	1.17%	0.50%		
06854	Norwalk	268	1.5%		0.91%		0.61%
06610	Bridgeport	214	1.2%		0.72%	0.48%	
06473	North Haven	206	1.2%	1.16%			
06905	Stamford	191	1.1%		0.54%		0.54%
06850	Norwalk	189	1.1%		0.53%		0.53%
06830	Greenwich	178	1.0%		0.50%		0.50%
06516	West Haven	168	0.9%	0.66%	0.28%		
All Other Locations		6,607	37.3%				

	Total	North	South	East	West
Top 25	*62.70%*	18.95%	22.56%	5.40%	15.79%
All Other Locations	*37.30%*	11.27%	13.42%	3.21%	9.40%
Total	***100.00%***	**30.22%**	**35.98%**	**8.61%**	**25.19%**
USE	***100%***	**30%**	**35%**	**10%**	**25%**

Status: OK North Combined South Class

BRDP-157 - Combined - n/s

[722]-Reservoir Avenue - .77 mi North of Soundview Ave

Town.....Bridgeport
Station.....157
Location..... 41.218228,-73.192421
2015-Minor Arterial 4.....2015-Urban
Start Report.....22-Apr-2025 11:00AM
End Report.....25-Apr-2025 09:00AM
Annualized ADT.....7500
24-Hour Count... 7632 * G4(0.97) = 7403.0
Day 1.....+ 7751 * G4(0.97) = 14921.5
Day 2.....+ 7818 * G4(0.97) = 22505.0
UnRounded AADT.....22505.0 / 3 = 7501.7
OK 2025 Tue 22-Apr -this report-...7500
OK 2022 Tue 11-Jan 6600
OK 2019 Tue 29-Jan 7200
Dataset Details.....1

	22-Apr Tue	23-Apr Wed	24-Apr Thu	25-Apr Fri
12:00am		70	60	65
01:00am		53	26	45
02:00am		27	27	28
03:00am		28	29	25
04:00am		53	37	49
05:00am		100	122	90
06:00am		250	264	221
07:00am		436	450	418
08:00am		548	523	566
09:00am		388	408	x
10:00am	x	323	323	
11:00am	321	340	381	
12:00pm	404	471	508	
01:00pm	394	477	488	
02:00pm	513	534	498	
03:00pm	651	556	540	
04:00pm	545	559	589	
05:00pm	607	595	568	
06:00pm	467	483	512	
07:00pm	448	432	395	
08:00pm	414	403	412	
09:00pm	269	303	292	
10:00pm	198	191	231	
11:00pm	125	131	135	
Totals	5356	7751	7818	1507

Status: OK North Combined South Class

BRDP-157 - North

[722]-Reservoir Avenue - .77 mi North of Soundview Ave

Town.....Bridgeport
Station.....157
Location..... 41.218228,-73.192421
2015-Minor Arterial 4.....2015-Urban
Start Report.....22-Apr-2025 11:00AM
End Report.....25-Apr-2025 09:00AM
Annualized ADT.....3600
24-Hour Count... 3684 * G4(0.97) = 3573.5
Day 1.....+ 3700 * G4(0.97) = 7162.5
Day 2.....+ 3795 * G4(0.97) = 10843.6
UnRounded AADT.....10843.6 / 3 = 3614.5
OK 2025 Tue 22-Apr -this report-...7500
OK 2022 Tue 11-Jan 6600
OK 2019 Tue 29-Jan 7200
Dataset Details.....1

	22-Apr Tue	23-Apr Wed	24-Apr Thu	25-Apr Fri
12:00am		35	33	38
01:00am		25	16	22
02:00am		11	14	13
03:00am		9	10	10
04:00am		23	14	16
05:00am		28	42	28
06:00am		87	93	76
07:00am		176	185	171
08:00am		236	229	237
09:00am		184	175	x
10:00am	x	137	167	
11:00am	161	171	182	
12:00pm	193	206	234	
01:00pm	214	251	251	
02:00pm	241	249	236	
03:00pm	326	268	262	
04:00pm	279	293	273	
05:00pm	282	303	297	
06:00pm	251	248	275	
07:00pm	233	218	206	
08:00pm	231	206	242	
09:00pm	143	169	163	
10:00pm	109	98	126	
11:00pm	70	69	70	
Totals	2733	3700	3795	611

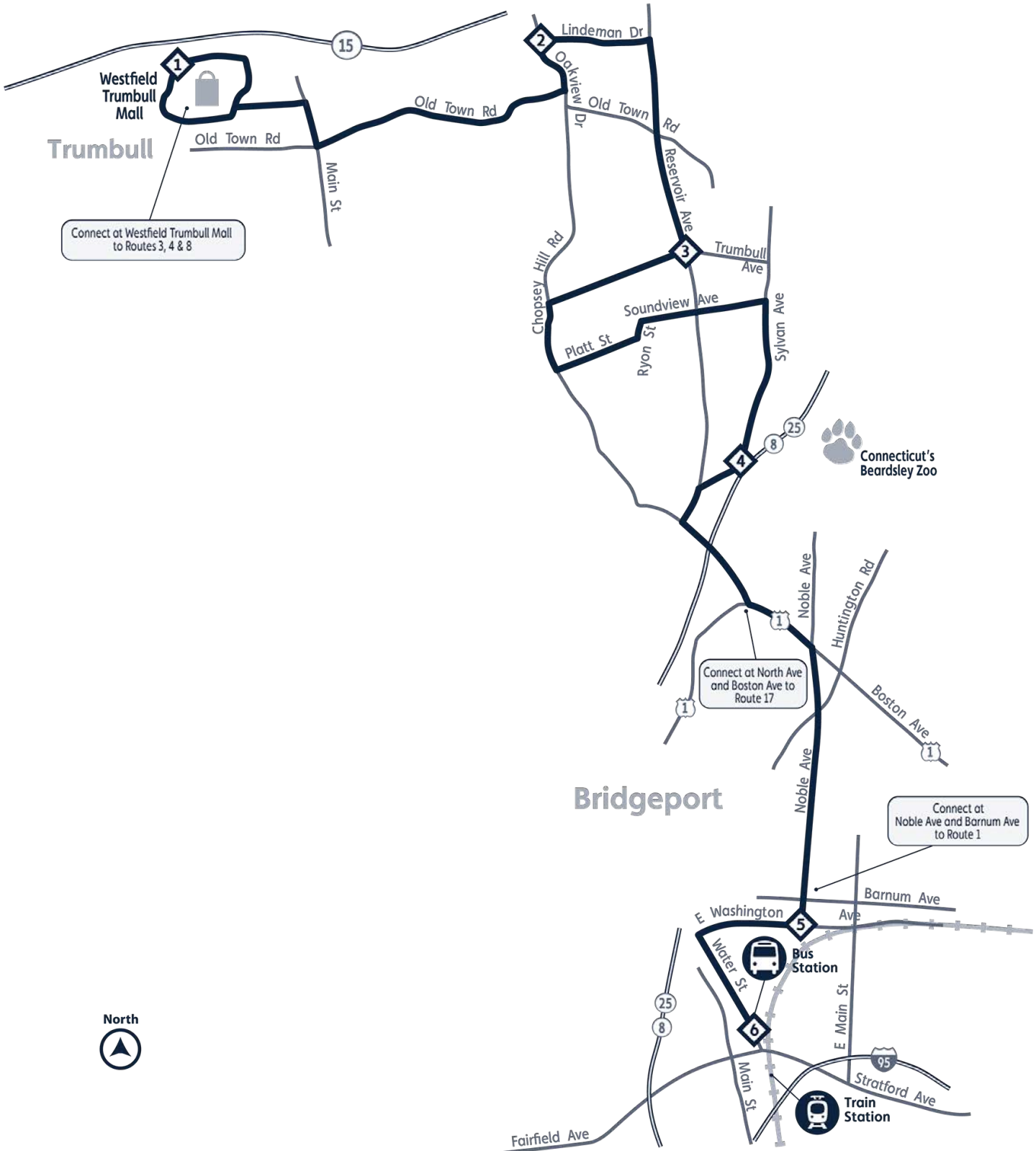
Status: OK North Combined South Class

BRDP-157 - South

[722]-Reservoir Avenue - .77 mi North of Soundview Ave

Town.....Bridgeport
Station.....157
Location..... 41.218228,-73.192421
2015-Minor Arterial 4.....2015-Urban
Start Report.....22-Apr-2025 11:00AM
End Report.....25-Apr-2025 09:00AM
Annualized ADT.....3900
24-Hour Count... 3948 * G4(0.97) = 3829.6
Day 1.....+ 4051 * G4(0.97) = 7759.0
Day 2.....+ 4023 * G4(0.97) = 11661.3
UnRounded AADT.....11661.3 / 3 = 3887.1
OK 2025 Tue 22-Apr -this report-...7500
OK 2022 Tue 11-Jan 6600
OK 2019 Tue 29-Jan 7200
Dataset Details.....1

	22-Apr Tue	23-Apr Wed	24-Apr Thu	25-Apr Fri
12:00am		35	27	27
01:00am		28	10	23
02:00am		16	13	15
03:00am		19	19	15
04:00am		30	23	33
05:00am		72	80	62
06:00am		163	171	145
07:00am		260	265	247
08:00am		312	294	329
09:00am		204	233	x
10:00am	x	186	156	
11:00am	160	169	199	
12:00pm	211	265	274	
01:00pm	180	226	237	
02:00pm	272	285	262	
03:00pm	325	288	278	
04:00pm	266	266	316	
05:00pm	325	292	271	
06:00pm	216	235	237	
07:00pm	215	214	189	
08:00pm	183	197	170	
09:00pm	126	134	129	
10:00pm	89	93	105	
11:00pm	55	62	65	
Totals	2623	4051	4023	896


15
1
Westfield Trumbull Mall
Trumbull
Old Town Rd
Old Town Rd
Main St
Connect at Westfield Trumbull Mall to Routes 3, 4 & 8
2
Lindeman Dr
Oakview Dr
Old Town Rd
Reservoir Ave
Chopsey Hill Rd
3
Trumbull Ave
Soundview Ave
Platt St
Ryon St
Sylvan Ave
4
25
8
Connecticut's Beardsley Zoo
1
Noble Ave
Huntington Rd
Connect at North Ave and Boston Ave to Route 17
Boston Ave
Bridgeport
Noble Ave
Connect at Noble Ave and Barnum Ave to Route 1
Barnum Ave
E Washington Ave
5
Bus Station
Water St
6
25
8
E Main St
95
Stratford Ave
Main St
Train Station
Fairfield Ave
North

WEEKDAY AM PEAK HOUR
CAPACITY ANALYSIS SUMMARY
PROPOSED DEVELOPMENT - 2135, 2145, 2155 RESERVOIR AVE, TRUMBULL, CT

		2025 Existing				2027 No-Build				2027 Build			
				Queue (veh)				Queue (veh)				Queue (veh)	
	Lane Use	LOS/Delay(s)	V/C Ratio	50th	95th	LOS/Delay(s)	V/C Ratio	50th	95th	LOS/Delay(s)	V/C Ratio	50th	95th
Reservoir Avenue at Lindeman Drive													
Unsignalized - HCM 6th TWSC													
Lindeman Drive													
	EB-LEFT/RIGHT	C/20.9	0.491		2.6	C/21.8	0.511		2.8	C/23.0	0.529		3.0
	Overall EB Approach												
Reservoir Avenue													
	NB-LEFT/THRU*	A/8.8	0.073		0.2	A/8.8	0.074		0.2	A/8.9	0.077		0.3
	Overall NB Approach												
	SB-THRU/RIGHT*												
	Overall SB Approach												
Overall Intersection													
Reservoir Avenue at Rocky Hill Terrace													
Unsignalized - HCM 6th TWSC													
Rocky Hill Terrace													
	WB-LEFT/RIGHT	B/10.0	0.037		0.1	B/10.0	0.037		0.1	B/10.2	0.039		0.1
	Overall WB Approach												
Reservoir Avenue													
	NB-THRU/RIGHT*												
	Overall NB Approach												
	SB-LEFT/THRU*	A/7.7	0.002		0	A/7.7	0.002		0	A/7.8	0.002		0
	Overall SB Approach												
Overall Intersection													
Reservoir Avenue at Proposed Site Driveway													
Unsignalized - HCM 6th TWSC													
Proposed Site Driveway													
	EB-LEFT/RIGHT									B/10.1	0.064		0.2
	Overall EB Approach												
Reservoir Avenue													
	NB-LEFT/THRU*									A/7.6	0.008		0
	Overall NB Approach												
	SB-THRU/RIGHT*												
	Overall SB Approach												
Overall Intersection													
Reservoir Avenue at Old Town Road													
Unsignalized - HCM 6th AWSC													
Old Town Road													
	EB-LEFT/THRU/RIGHT	B/11.2	0.357		1.6	B/11.4	0.370		1.7	B/11.9	0.385		1.8
	Overall EB Approach												
	WB-LEFT/THRU/RIGHT	B/12.2	0.422		2.1	B/12.5	0.434		2.2	B/13.0	0.450		2.3
	Overall WB Approach												
Reservoir Avenue													
	NB-LEFT/THRU/RIGHT	B/11.4	0.313		1.3	B/11.6	0.323		1.4	B/12.0	0.339		1.5
	Overall NB Approach												
	SB-LEFT/THRU/RIGHT	B/10.6	0.252		1.0	B/10.8	0.262		1.0	B/11.5	0.320		1.4
	Overall SB Approach												
Overall Intersection													

Note: At unsignalized intersections only the delay on the STOP-controlled approaches and main line turning movements are reported.
* = Movement is free-flowing

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WEEKDAY PM PEAK HOUR
CAPACITY ANALYSIS SUMMARY
PROPOSED DEVELOPMENT - 2135, 2145, 2155 RESERVOIR AVE, TRUMBULL, CT

		2025 Existing				2027 No-Build				2027 Build			
				Queue (veh)				Queue (veh)				Queue (veh)	
	Lane Use	LOS/Delay(s)	V/C Ratio	50th	95th	LOS/Delay(s)	V/C Ratio	50th	95th	LOS/Delay(s)	V/C Ratio	50th	95th
Reservoir Avenue at Lindeman Drive													
Unsignalized - HCM 6th TWSC													
Lindeman Drive													
	EB-LEFT/RIGHT	D/25.6	0.742		6.5	D/27.3	0.764		7.0	D/30.0	0.790		7.6
	Overall EB Approach												
Reservoir Avenue													
	NB-LEFT/THRU*	A/7.9	0.031		0.1	A/7.9	0.032		0.1	A/8.0	0.034		0.1
	Overall NB Approach												
	SB-THRU/RIGHT*												
	Overall SB Approach												
Overall Intersection													
Reservoir Avenue at Rocky Hill Terrace													
Unsignalized - HCM 6th TWSC													
Rocky Hill Terrace													
	WB-LEFT/RIGHT	A/9.7	0.015		0	A/9.7	0.015		0	A/9.8	0.016		0
	Overall WB Approach												
Reservoir Avenue													
	NB-THRU/RIGHT*												
	Overall NB Approach												
	SB-LEFT/THRU*	A/7.6	0.010		0	A/7.6	0.010		0	A/7.6	0.010		0
	Overall SB Approach												
Overall Intersection													
Reservoir Avenue at Proposed Site Driveway													
Unsignalized - HCM 6th TWSC													
Proposed Site Driveway													
	EB-LEFT/RIGHT									B/10.0	0.031		0.1
	Overall EB Approach												
Reservoir Avenue													
	NB-LEFT/THRU*									A/7.7	0.019		0.1
	Overall NB Approach												
	SB-THRU/RIGHT*												
	Overall SB Approach												
Overall Intersection													
Reservoir Avenue at Old Town Road													
Unsignalized - HCM 6th AWSC													
Old Town Road													
	EB-LEFT/THRU/RIGHT	B/11.0	0.376		1.8	B/11.2	0.384		1.8	B/11.6	0.407		2.0
	Overall EB Approach												
	WB-LEFT/THRU/RIGHT	A/9.7	0.242		0.9	A/9.8	0.249		1.0	B/10.1	0.260		1.0
	Overall WB Approach												
Reservoir Avenue													
	NB-LEFT/THRU/RIGHT	B/10.3	0.255		1.0	B/10.5	0.260		1.0	B/10.9	0.289		1.2
	Overall NB Approach												
	SB-LEFT/THRU/RIGHT	B/10.2	0.245		1.0	B/10.3	0.251		1.0	B/10.7	0.279		1.1
	Overall SB Approach												
Overall Intersection													

Note: At unsignalized intersections only the delay on the STOP-controlled approaches and main line turning movements are reported.
* = Movement is free-flowing

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SATURDAY MIDDAY PEAK HOUR
CAPACITY ANALYSIS SUMMARY
PROPOSED DEVELOPMENT - 2135, 2145, 2155 RESERVOIR AVE, TRUMBULL, CT

		2025 Existing				2027 No-Build				2027 Build			
				Queue (veh)				Queue (veh)				Queue (veh)	
	Lane Use	LOS/Delay(s)	V/C Ratio	50th	95th	LOS/Delay(s)	V/C Ratio	50th	95th	LOS/Delay(s)	V/C Ratio	50th	95th
Reservoir Avenue at Lindeman Drive													
Unsignalized - HCM 6th TWSC													
Lindeman Drive													
	EB-LEFT/RIGHT	B/11.2	0.166		0.6	B/11.3	0.171		0.6	B/11.6	0.179		0.6
	Overall EB Approach												
Reservoir Avenue													
	NB-LEFT/THRU*	A/7.8	0.018		0.1	A/7.8	0.018		0.1	A/7.9	0.020		0.1
	Overall NB Approach												
	SB-THRU/RIGHT*												
	Overall SB Approach												
Overall Intersection													
Reservoir Avenue at Rocky Hill Terrace													
Unsignalized - HCM 6th TWSC													
Rocky Hill Terrace													
	WB-LEFT/RIGHT	A/9.3	0.023		0.1	A/9.3	0.023		0.1	A/9.4	0.024		0.1
	Overall WB Approach												
Reservoir Avenue													
	NB-THRU/RIGHT*												
	Overall NB Approach												
	SB-LEFT/THRU*	A/7.4	0.012		0	A/7.4	0.012		0	A/7.5	0.012		0
	Overall SB Approach												
Overall Intersection													
Reservoir Avenue at Proposed Site Driveway													
Unsignalized - HCM 6th TWSC													
Proposed Site Driveway													
	EB-LEFT/RIGHT									A/9.5	0.034		0.1
	Overall EB Approach												
Reservoir Avenue													
	NB-LEFT/THRU*									A/7.5	0.013		0
	Overall NB Approach												
	SB-THRU/RIGHT*												
	Overall SB Approach												
Overall Intersection													
Reservoir Avenue at Old Town Road													
Unsignalized - HCM 6th AWSC													
Old Town Road													
	EB-LEFT/THRU/RIGHT	A/8.6	0.190		0.7	A/8.7	0.195		0.7	A/8.9	0.207		0.8
	Overall EB Approach												
	WB-LEFT/THRU/RIGHT	A/8.6	0.180		0.7	A/8.6	0.186		0.7	A/8.8	0.193		0.7
	Overall WB Approach												
Reservoir Avenue													
	NB-LEFT/THRU/RIGHT	A/8.8	0.166		0.6	A/8.9	0.171		0.6	A/9.1	0.188		0.7
	Overall NB Approach												
	SB-LEFT/THRU/RIGHT	A/8.8	0.165		0.6	A/8.8	0.170		0.6	A/9.1	0.197		0.7
	Overall SB Approach												
Overall Intersection													

Note: At unsignalized intersections only the delay on the STOP-controlled approaches and main line turning movements are reported.
* = Movement is free-flowing

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Intersection	
Int Delay, s/veh	5.2

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	133	37	54	133	98	318
Future Vol, veh/h	133	37	54	133	98	318
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	79	79	73	73	80	80
Heavy Vehicles, %	3	5	7	3	2	1
Mvmt Flow	168	47	74	182	123	398

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	652	322	521	0	-	0
Stage 1	322	-	-	-	-	-
Stage 2	330	-	-	-	-	-
Critical Hdwy	6.43	6.25	4.17	-	-	-
Critical Hdwy Stg 1	5.43	-	-	-	-	-
Critical Hdwy Stg 2	5.43	-	-	-	-	-
Follow-up Hdwy	3.527	3.345	2.263	-	-	-
Pot Cap-1 Maneuver	431	712	1020	-	-	-
Stage 1	732	-	-	-	-	-
Stage 2	726	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	396	712	1020	-	-	-
Mov Cap-2 Maneuver	396	-	-	-	-	-
Stage 1	673	-	-	-	-	-
Stage 2	726	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	20.9	2.5	0
HCM LOS	C		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1020	-	438	-	-
HCM Lane V/C Ratio	0.073	-	0.491	-	-
HCM Control Delay (s)	8.8	0	20.9	-	-
HCM Lane LOS	A	A	C	-	-
HCM 95th %tile Q(veh)	0.2	-	2.6	-	-

Intersection	
Int Delay, s/veh	0.7

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	3	18	166	5	2	133
Future Vol, veh/h	3	18	166	5	2	133
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	75	75	69	69	91	91
Heavy Vehicles, %	0	6	5	20	0	3
Mvmt Flow	4	24	241	7	2	146

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	395	245	0	0	248	0
Stage 1	245	-	-	-	-	-
Stage 2	150	-	-	-	-	-
Critical Hdwy	6.4	6.26	-	-	4.1	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.354	-	-	2.2	-
Pot Cap-1 Maneuver	614	784	-	-	1330	-
Stage 1	800	-	-	-	-	-
Stage 2	883	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	613	784	-	-	1330	-
Mov Cap-2 Maneuver	613	-	-	-	-	-
Stage 1	800	-	-	-	-	-
Stage 2	881	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	10	0	0.1
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	754	1330	-
HCM Lane V/C Ratio	-	-	0.037	0.002	-
HCM Control Delay (s)	-	-	10	7.7	0
HCM Lane LOS	-	-	B	A	A
HCM 95th %tile Q(veh)	-	-	0.1	0	-

Intersection	
Intersection Delay, s/veh	11.5
Intersection LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	31	88	55	9	132	67	82	70	3	27	76	35
Future Vol, veh/h	31	88	55	9	132	67	82	70	3	27	76	35
Peak Hour Factor	0.71	0.71	0.71	0.73	0.73	0.73	0.79	0.79	0.79	0.86	0.86	0.86
Heavy Vehicles, %	0	1	7	11	5	7	2	6	33	4	4	3
Mvmt Flow	44	124	77	12	181	92	104	89	4	31	88	41
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	11.2	12.2	11.4	10.6
HCM LOS	B	B	B	B

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	53%	18%	4%	20%
Vol Thru, %	45%	51%	63%	55%
Vol Right, %	2%	32%	32%	25%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	155	174	208	138
LT Vol	82	31	9	27
Through Vol	70	88	132	76
RT Vol	3	55	67	35
Lane Flow Rate	196	245	285	160
Geometry Grp	1	1	1	1
Degree of Util (X)	0.312	0.356	0.421	0.251
Departure Headway (Hd)	5.731	5.235	5.321	5.633
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	626	686	675	635
Service Time	3.78	3.279	3.362	3.684
HCM Lane V/C Ratio	0.313	0.357	0.422	0.252
HCM Control Delay	11.4	11.2	12.2	10.6
HCM Lane LOS	B	B	B	B
HCM 95th-tile Q	1.3	1.6	2.1	1

Intersection	
Int Delay, s/veh	13.5

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	296	63	34	115	91	135
Future Vol, veh/h	296	63	34	115	91	135
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	78	78	85	85	86	86
Heavy Vehicles, %	1	6	6	3	2	2
Mvmt Flow	379	81	40	135	106	157

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	400	185	263	0	-	0
Stage 1	185	-	-	-	-	-
Stage 2	215	-	-	-	-	-
Critical Hdwy	6.41	6.26	4.16	-	-	-
Critical Hdwy Stg 1	5.41	-	-	-	-	-
Critical Hdwy Stg 2	5.41	-	-	-	-	-
Follow-up Hdwy	3.509	3.354	2.254	-	-	-
Pot Cap-1 Maneuver	608	847	1278	-	-	-
Stage 1	849	-	-	-	-	-
Stage 2	823	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	587	847	1278	-	-	-
Mov Cap-2 Maneuver	587	-	-	-	-	-
Stage 1	820	-	-	-	-	-
Stage 2	823	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	25.6	1.8	0
HCM LOS	D		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1278	-	620	-	-
HCM Lane V/C Ratio	0.031	-	0.742	-	-
HCM Control Delay (s)	7.9	0	25.6	-	-
HCM Lane LOS	A	A	D	-	-
HCM 95th %tile Q(veh)	0.1	-	6.5	-	-

Intersection	
Int Delay, s/veh	0.6

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	2	6	136	12	12	147
Future Vol, veh/h	2	6	136	12	12	147
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	67	67	86	86	85	85
Heavy Vehicles, %	0	17	4	8	0	4
Mvmt Flow	3	9	158	14	14	173

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	366	165	0	0	172	0
Stage 1	165	-	-	-	-	-
Stage 2	201	-	-	-	-	-
Critical Hdwy	6.4	6.37	-	-	4.1	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.453	-	-	2.2	-
Pot Cap-1 Maneuver	638	842	-	-	1417	-
Stage 1	869	-	-	-	-	-
Stage 2	838	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	631	842	-	-	1417	-
Mov Cap-2 Maneuver	631	-	-	-	-	-
Stage 1	869	-	-	-	-	-
Stage 2	829	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	9.7	0	0.6
HCM LOS	A		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	777	1417	-
HCM Lane V/C Ratio	-	-	0.015	0.01	-
HCM Control Delay (s)	-	-	9.7	7.6	0
HCM Lane LOS	-	-	A	A	A
HCM 95th %tile Q(veh)	-	-	0	0	-

Intersection	
Intersection Delay, s/veh	10.4
Intersection LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	45	150	58	7	86	41	50	66	8	56	74	17
Future Vol, veh/h	45	150	58	7	86	41	50	66	8	56	74	17
Peak Hour Factor	0.93	0.93	0.93	0.78	0.78	0.78	0.74	0.74	0.74	0.90	0.90	0.90
Heavy Vehicles, %	0	5	7	0	5	10	6	3	0	4	5	6
Mvmt Flow	48	161	62	9	110	53	68	89	11	62	82	19
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	11	9.7	10.3	10.2
HCM LOS	B	A	B	B

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	40%	18%	5%	38%
Vol Thru, %	53%	59%	64%	50%
Vol Right, %	6%	23%	31%	12%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	124	253	134	147
LT Vol	50	45	7	56
Through Vol	66	150	86	74
RT Vol	8	58	41	17
Lane Flow Rate	168	272	172	163
Geometry Grp	1	1	1	1
Degree of Util (X)	0.254	0.378	0.241	0.245
Departure Headway (Hd)	5.455	4.999	5.049	5.395
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	659	724	711	666
Service Time	3.488	2.999	3.079	3.428
HCM Lane V/C Ratio	0.255	0.376	0.242	0.245
HCM Control Delay	10.3	11	9.7	10.2
HCM Lane LOS	B	B	A	B
HCM 95th-tile Q	1	1.8	0.9	1

Intersection	
Int Delay, s/veh	3.2

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	84	21	20	90	92	81
Future Vol, veh/h	84	21	20	90	92	81
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	91	91	86	86	79	79
Heavy Vehicles, %	1	10	10	4	2	1
Mvmt Flow	92	23	23	105	116	103

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	319	168	219	0	-	0
Stage 1	168	-	-	-	-	-
Stage 2	151	-	-	-	-	-
Critical Hdwy	6.41	6.3	4.2	-	-	-
Critical Hdwy Stg 1	5.41	-	-	-	-	-
Critical Hdwy Stg 2	5.41	-	-	-	-	-
Follow-up Hdwy	3.509	3.39	2.29	-	-	-
Pot Cap-1 Maneuver	676	856	1304	-	-	-
Stage 1	864	-	-	-	-	-
Stage 2	879	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	663	856	1304	-	-	-
Mov Cap-2 Maneuver	663	-	-	-	-	-
Stage 1	848	-	-	-	-	-
Stage 2	879	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	11.2	1.4	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1304	-	694	-	-
HCM Lane V/C Ratio	0.018	-	0.166	-	-
HCM Control Delay (s)	7.8	0	11.2	-	-
HCM Lane LOS	A	A	B	-	-
HCM 95th %tile Q(veh)	0.1	-	0.6	-	-

Intersection	
Int Delay, s/veh	1.2

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	6	12	95	4	16	100
Future Vol, veh/h	6	12	95	4	16	100
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	90	90	92	92	88	88
Heavy Vehicles, %	0	0	5	0	0	4
Mvmt Flow	7	13	103	4	18	114

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	255	105	0	0	107	0
Stage 1	105	-	-	-	-	-
Stage 2	150	-	-	-	-	-
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	738	955	-	-	1497	-
Stage 1	924	-	-	-	-	-
Stage 2	883	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	728	955	-	-	1497	-
Mov Cap-2 Maneuver	728	-	-	-	-	-
Stage 1	924	-	-	-	-	-
Stage 2	872	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	9.3	0	1
HCM LOS	A		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	865	1497	-
HCM Lane V/C Ratio	-	-	0.023	0.012	-
HCM Control Delay (s)	-	-	9.3	7.4	0
HCM Lane LOS	-	-	A	A	A
HCM 95th %tile Q(veh)	-	-	0.1	0	-

Intersection	
Intersection Delay, s/veh	8.7
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	16	69	39	4	82	33	51	49	6	36	53	23
Future Vol, veh/h	16	69	39	4	82	33	51	49	6	36	53	23
Peak Hour Factor	0.82	0.82	0.82	0.83	0.83	0.83	0.86	0.86	0.86	0.90	0.90	0.90
Heavy Vehicles, %	0	1	3	0	0	3	2	6	0	6	4	4
Mvmt Flow	20	84	48	5	99	40	59	57	7	40	59	26
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	8.6	8.6	8.8	8.8
HCM LOS	A	A	A	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	48%	13%	3%	32%
Vol Thru, %	46%	56%	69%	47%
Vol Right, %	6%	31%	28%	21%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	106	124	119	112
LT Vol	51	16	4	36
Through Vol	49	69	82	53
RT Vol	6	39	33	23
Lane Flow Rate	123	151	143	124
Geometry Grp	1	1	1	1
Degree of Util (X)	0.165	0.189	0.18	0.165
Departure Headway (Hd)	4.823	4.506	4.518	4.771
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	742	794	793	750
Service Time	2.866	2.544	2.557	2.812
HCM Lane V/C Ratio	0.166	0.19	0.18	0.165
HCM Control Delay	8.8	8.6	8.6	8.8
HCM Lane LOS	A	A	A	A
HCM 95th-tile Q	0.6	0.7	0.7	0.6

Intersection	
Int Delay, s/veh	5.4

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	136	38	55	136	100	324
Future Vol, veh/h	136	38	55	136	100	324
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	79	79	73	73	80	80
Heavy Vehicles, %	3	5	7	3	2	1
Mvmt Flow	172	48	75	186	125	405

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	664	328	530	0	-	0
Stage 1	328	-	-	-	-	-
Stage 2	336	-	-	-	-	-
Critical Hdwy	6.43	6.25	4.17	-	-	-
Critical Hdwy Stg 1	5.43	-	-	-	-	-
Critical Hdwy Stg 2	5.43	-	-	-	-	-
Follow-up Hdwy	3.527	3.345	2.263	-	-	-
Pot Cap-1 Maneuver	424	706	1012	-	-	-
Stage 1	728	-	-	-	-	-
Stage 2	722	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	389	706	1012	-	-	-
Mov Cap-2 Maneuver	389	-	-	-	-	-
Stage 1	668	-	-	-	-	-
Stage 2	722	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	21.8	2.5	0
HCM LOS	C		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1012	-	431	-	-
HCM Lane V/C Ratio	0.074	-	0.511	-	-
HCM Control Delay (s)	8.8	0	21.8	-	-
HCM Lane LOS	A	A	C	-	-
HCM 95th %tile Q(veh)	0.2	-	2.8	-	-

Intersection	
Int Delay, s/veh	0.7

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	3	18	169	5	2	136
Future Vol, veh/h	3	18	169	5	2	136
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	75	75	69	69	91	91
Heavy Vehicles, %	0	6	5	20	0	3
Mvmt Flow	4	24	245	7	2	149

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	402	249	0	0	252	0
Stage 1	249	-	-	-	-	-
Stage 2	153	-	-	-	-	-
Critical Hdwy	6.4	6.26	-	-	4.1	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.354	-	-	2.2	-
Pot Cap-1 Maneuver	608	780	-	-	1325	-
Stage 1	797	-	-	-	-	-
Stage 2	880	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	607	780	-	-	1325	-
Mov Cap-2 Maneuver	607	-	-	-	-	-
Stage 1	797	-	-	-	-	-
Stage 2	878	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	10	0	0.1
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	749	1325	-
HCM Lane V/C Ratio	-	-	0.037	0.002	-
HCM Control Delay (s)	-	-	10	7.7	0
HCM Lane LOS	-	-	B	A	A
HCM 95th %tile Q(veh)	-	-	0.1	0	-

Intersection	
Intersection Delay, s/veh	11.7
Intersection LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	32	90	56	9	135	68	84	71	3	28	78	36
Future Vol, veh/h	32	90	56	9	135	68	84	71	3	28	78	36
Peak Hour Factor	0.71	0.71	0.71	0.73	0.73	0.73	0.79	0.79	0.79	0.86	0.86	0.86
Heavy Vehicles, %	0	1	7	11	5	7	2	6	33	4	4	3
Mvmt Flow	45	127	79	12	185	93	106	90	4	33	91	42
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	11.4	12.5	11.6	10.8
HCM LOS	B	B	B	B

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	53%	18%	4%	20%
Vol Thru, %	45%	51%	64%	55%
Vol Right, %	2%	31%	32%	25%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	158	178	212	142
LT Vol	84	32	9	28
Through Vol	71	90	135	78
RT Vol	3	56	68	36
Lane Flow Rate	200	251	290	165
Geometry Grp	1	1	1	1
Degree of Util (X)	0.321	0.368	0.433	0.261
Departure Headway (Hd)	5.785	5.284	5.368	5.686
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	620	679	668	629
Service Time	3.84	3.333	3.415	3.743
HCM Lane V/C Ratio	0.323	0.37	0.434	0.262
HCM Control Delay	11.6	11.4	12.5	10.8
HCM Lane LOS	B	B	B	B
HCM 95th-tile Q	1.4	1.7	2.2	1

Intersection	
Int Delay, s/veh	14.3

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	302	64	35	117	93	138
Future Vol, veh/h	302	64	35	117	93	138
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	78	78	85	85	86	86
Heavy Vehicles, %	1	6	6	3	2	2
Mvmt Flow	387	82	41	138	108	160

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	408	188	268	0	-	0
Stage 1	188	-	-	-	-	-
Stage 2	220	-	-	-	-	-
Critical Hdwy	6.41	6.26	4.16	-	-	-
Critical Hdwy Stg 1	5.41	-	-	-	-	-
Critical Hdwy Stg 2	5.41	-	-	-	-	-
Follow-up Hdwy	3.509	3.354	2.254	-	-	-
Pot Cap-1 Maneuver	601	844	1273	-	-	-
Stage 1	846	-	-	-	-	-
Stage 2	819	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	580	844	1273	-	-	-
Mov Cap-2 Maneuver	580	-	-	-	-	-
Stage 1	816	-	-	-	-	-
Stage 2	819	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	27.3	1.8	0
HCM LOS	D		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1273	-	614	-	-
HCM Lane V/C Ratio	0.032	-	0.764	-	-
HCM Control Delay (s)	7.9	0	27.3	-	-
HCM Lane LOS	A	A	D	-	-
HCM 95th %tile Q(veh)	0.1	-	7	-	-

Intersection	
Int Delay, s/veh	0.6

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	2	6	139	12	12	150
Future Vol, veh/h	2	6	139	12	12	150
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	67	67	86	86	85	85
Heavy Vehicles, %	0	17	4	8	0	4
Mvmt Flow	3	9	162	14	14	176

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	373	169	0	0	176	0
Stage 1	169	-	-	-	-	-
Stage 2	204	-	-	-	-	-
Critical Hdwy	6.4	6.37	-	-	4.1	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.453	-	-	2.2	-
Pot Cap-1 Maneuver	632	837	-	-	1412	-
Stage 1	866	-	-	-	-	-
Stage 2	835	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	625	837	-	-	1412	-
Mov Cap-2 Maneuver	625	-	-	-	-	-
Stage 1	866	-	-	-	-	-
Stage 2	826	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	9.7	0	0.6
HCM LOS	A		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	772	1412	-
HCM Lane V/C Ratio	-	-	0.015	0.01	-
HCM Control Delay (s)	-	-	9.7	7.6	0
HCM Lane LOS	-	-	A	A	A
HCM 95th %tile Q(veh)	-	-	0	0	-

Intersection	
Intersection Delay, s/veh	10.5
Intersection LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	46	153	59	7	88	42	51	67	8	57	75	17
Future Vol, veh/h	46	153	59	7	88	42	51	67	8	57	75	17
Peak Hour Factor	0.93	0.93	0.93	0.78	0.78	0.78	0.74	0.74	0.74	0.90	0.90	0.90
Heavy Vehicles, %	0	5	7	0	5	10	6	3	0	4	5	6
Mvmt Flow	49	165	63	9	113	54	69	91	11	63	83	19
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	11.2	9.8	10.5	10.3
HCM LOS	B	A	B	B

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	40%	18%	5%	38%
Vol Thru, %	53%	59%	64%	50%
Vol Right, %	6%	23%	31%	11%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	126	258	137	149
LT Vol	51	46	7	57
Through Vol	67	153	88	75
RT Vol	8	59	42	17
Lane Flow Rate	170	277	176	166
Geometry Grp	1	1	1	1
Degree of Util (X)	0.26	0.388	0.248	0.25
Departure Headway (Hd)	5.489	5.029	5.077	5.432
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	654	721	706	661
Service Time	3.528	3.029	3.112	3.47
HCM Lane V/C Ratio	0.26	0.384	0.249	0.251
HCM Control Delay	10.5	11.2	9.8	10.3
HCM Lane LOS	B	B	A	B
HCM 95th-tile Q	1	1.8	1	1

Intersection	
Int Delay, s/veh	3.2

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	86	21	20	92	94	83
Future Vol, veh/h	86	21	20	92	94	83
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	91	91	86	86	79	79
Heavy Vehicles, %	1	10	10	4	2	1
Mvmt Flow	95	23	23	107	119	105

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	325	172	224	0	-	0
Stage 1	172	-	-	-	-	-
Stage 2	153	-	-	-	-	-
Critical Hdwy	6.41	6.3	4.2	-	-	-
Critical Hdwy Stg 1	5.41	-	-	-	-	-
Critical Hdwy Stg 2	5.41	-	-	-	-	-
Follow-up Hdwy	3.509	3.39	2.29	-	-	-
Pot Cap-1 Maneuver	671	851	1299	-	-	-
Stage 1	861	-	-	-	-	-
Stage 2	877	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	658	851	1299	-	-	-
Mov Cap-2 Maneuver	658	-	-	-	-	-
Stage 1	845	-	-	-	-	-
Stage 2	877	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	11.3	1.4	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1299	-	689	-	-
HCM Lane V/C Ratio	0.018	-	0.171	-	-
HCM Control Delay (s)	7.8	0	11.3	-	-
HCM Lane LOS	A	A	B	-	-
HCM 95th %tile Q(veh)	0.1	-	0.6	-	-

Intersection	
Int Delay, s/veh	1.2

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	6	12	97	4	16	102
Future Vol, veh/h	6	12	97	4	16	102
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	90	90	92	92	88	88
Heavy Vehicles, %	0	0	5	0	0	4
Mvmt Flow	7	13	105	4	18	116

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	259	107	0	0	109	0
Stage 1	107	-	-	-	-	-
Stage 2	152	-	-	-	-	-
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	734	953	-	-	1494	-
Stage 1	922	-	-	-	-	-
Stage 2	881	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	724	953	-	-	1494	-
Mov Cap-2 Maneuver	724	-	-	-	-	-
Stage 1	922	-	-	-	-	-
Stage 2	870	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	9.3	0	1
HCM LOS	A		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	862	1494	-
HCM Lane V/C Ratio	-	-	0.023	0.012	-
HCM Control Delay (s)	-	-	9.3	7.4	0
HCM Lane LOS	-	-	A	A	A
HCM 95th %tile Q(veh)	-	-	0.1	0	-

Intersection	
Intersection Delay, s/veh	8.7
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	16	70	40	4	84	34	52	50	6	37	54	23
Future Vol, veh/h	16	70	40	4	84	34	52	50	6	37	54	23
Peak Hour Factor	0.82	0.82	0.82	0.83	0.83	0.83	0.86	0.86	0.86	0.90	0.90	0.90
Heavy Vehicles, %	0	1	3	0	0	3	2	6	0	6	4	4
Mvmt Flow	20	85	49	5	101	41	60	58	7	41	60	26
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	8.7	8.6	8.9	8.8
HCM LOS	A	A	A	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	48%	13%	3%	32%
Vol Thru, %	46%	56%	69%	47%
Vol Right, %	6%	32%	28%	20%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	108	126	122	114
LT Vol	52	16	4	37
Through Vol	50	70	84	54
RT Vol	6	40	34	23
Lane Flow Rate	126	154	147	127
Geometry Grp	1	1	1	1
Degree of Util (X)	0.169	0.193	0.185	0.169
Departure Headway (Hd)	4.843	4.523	4.534	4.792
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	738	791	789	746
Service Time	2.888	2.563	2.575	2.837
HCM Lane V/C Ratio	0.171	0.195	0.186	0.17
HCM Control Delay	8.9	8.7	8.6	8.8
HCM Lane LOS	A	A	A	A
HCM 95th-tile Q	0.6	0.7	0.7	0.6

Intersection	
Int Delay, s/veh	5.6

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	136	38	57	149	104	324
Future Vol, veh/h	136	38	57	149	104	324
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	79	79	73	73	80	80
Heavy Vehicles, %	3	5	7	3	2	1
Mvmt Flow	172	48	78	204	130	405

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	693	333	535	0	-	0
Stage 1	333	-	-	-	-	-
Stage 2	360	-	-	-	-	-
Critical Hdwy	6.43	6.25	4.17	-	-	-
Critical Hdwy Stg 1	5.43	-	-	-	-	-
Critical Hdwy Stg 2	5.43	-	-	-	-	-
Follow-up Hdwy	3.527	3.345	2.263	-	-	-
Pot Cap-1 Maneuver	408	702	1008	-	-	-
Stage 1	724	-	-	-	-	-
Stage 2	704	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	373	702	1008	-	-	-
Mov Cap-2 Maneuver	373	-	-	-	-	-
Stage 1	661	-	-	-	-	-
Stage 2	704	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	23	2.5	0
HCM LOS	C		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1008	-	416	-	-
HCM Lane V/C Ratio	0.077	-	0.529	-	-
HCM Control Delay (s)	8.9	0	23	-	-
HCM Lane LOS	A	A	C	-	-
HCM 95th %tile Q(veh)	0.3	-	3	-	-

Intersection	
Int Delay, s/veh	0.7

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	3	18	185	5	2	140
Future Vol, veh/h	3	18	185	5	2	140
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	75	75	69	69	91	91
Heavy Vehicles, %	0	6	5	20	0	3
Mvmt Flow	4	24	268	7	2	154

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	430	272	0	0	275	0
Stage 1	272	-	-	-	-	-
Stage 2	158	-	-	-	-	-
Critical Hdwy	6.4	6.26	-	-	4.1	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.354	-	-	2.2	-
Pot Cap-1 Maneuver	586	757	-	-	1300	-
Stage 1	778	-	-	-	-	-
Stage 2	875	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	585	757	-	-	1300	-
Mov Cap-2 Maneuver	585	-	-	-	-	-
Stage 1	778	-	-	-	-	-
Stage 2	873	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	10.2	0	0.1
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	726	1300	-
HCM Lane V/C Ratio	-	-	0.039	0.002	-
HCM Control Delay (s)	-	-	10.2	7.8	0
HCM Lane LOS	-	-	B	A	A
HCM 95th %tile Q(veh)	-	-	0.1	0	-

Intersection	
Int Delay, s/veh	1.2

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	15	29	8	174	139	5
Future Vol, veh/h	15	29	8	174	139	5
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	69	69	91	91
Heavy Vehicles, %	2	2	2	5	3	2
Mvmt Flow	16	32	12	252	153	5

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	432	156	158	0	-	0
Stage 1	156	-	-	-	-	-
Stage 2	276	-	-	-	-	-
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	581	890	1422	-	-	-
Stage 1	872	-	-	-	-	-
Stage 2	771	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	575	890	1422	-	-	-
Mov Cap-2 Maneuver	575	-	-	-	-	-
Stage 1	863	-	-	-	-	-
Stage 2	771	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	10.1	0.3	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1422	-	750	-	-
HCM Lane V/C Ratio	0.008	-	0.064	-	-
HCM Control Delay (s)	7.6	0	10.1	-	-
HCM Lane LOS	A	A	B	-	-
HCM 95th %tile Q(veh)	0	-	0.2	-	-

Intersection	
Intersection Delay, s/veh	12.2
Intersection LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	34	90	56	9	135	70	84	75	3	32	94	45
Future Vol, veh/h	34	90	56	9	135	70	84	75	3	32	94	45
Peak Hour Factor	0.71	0.71	0.71	0.73	0.73	0.73	0.79	0.79	0.79	0.86	0.86	0.86
Heavy Vehicles, %	0	1	7	11	5	7	2	6	33	4	4	3
Mvmt Flow	48	127	79	12	185	96	106	95	4	37	109	52
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	11.9	13	12	11.5
HCM LOS	B	B	B	B

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	52%	19%	4%	19%
Vol Thru, %	46%	50%	63%	55%
Vol Right, %	2%	31%	33%	26%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	162	180	214	171
LT Vol	84	34	9	32
Through Vol	75	90	135	94
RT Vol	3	56	70	45
Lane Flow Rate	205	254	293	199
Geometry Grp	1	1	1	1
Degree of Util (X)	0.336	0.383	0.449	0.317
Departure Headway (Hd)	5.905	5.44	5.512	5.748
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	605	659	651	622
Service Time	3.972	3.503	3.573	3.816
HCM Lane V/C Ratio	0.339	0.385	0.45	0.32
HCM Control Delay	12	11.9	13	11.5
HCM Lane LOS	B	B	B	B
HCM 95th-tile Q	1.5	1.8	2.3	1.4

Intersection	
Int Delay, s/veh	15.4

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	302	66	36	124	104	138
Future Vol, veh/h	302	66	36	124	104	138
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	78	78	85	85	86	86
Heavy Vehicles, %	1	6	6	3	2	2
Mvmt Flow	387	85	42	146	121	160

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	431	201	281	0	-	0
Stage 1	201	-	-	-	-	-
Stage 2	230	-	-	-	-	-
Critical Hdwy	6.41	6.26	4.16	-	-	-
Critical Hdwy Stg 1	5.41	-	-	-	-	-
Critical Hdwy Stg 2	5.41	-	-	-	-	-
Follow-up Hdwy	3.509	3.354	2.254	-	-	-
Pot Cap-1 Maneuver	583	830	1259	-	-	-
Stage 1	835	-	-	-	-	-
Stage 2	811	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	562	830	1259	-	-	-
Mov Cap-2 Maneuver	562	-	-	-	-	-
Stage 1	805	-	-	-	-	-
Stage 2	811	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	30	1.8	0
HCM LOS	D		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1259	-	597	-	-
HCM Lane V/C Ratio	0.034	-	0.79	-	-
HCM Control Delay (s)	8	0	30	-	-
HCM Lane LOS	A	A	D	-	-
HCM 95th %tile Q(veh)	0.1	-	7.6	-	-

Intersection	
Int Delay, s/veh	0.5

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	2	6	146	12	12	163
Future Vol, veh/h	2	6	146	12	12	163
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	67	67	86	86	85	85
Heavy Vehicles, %	0	17	4	8	0	4
Mvmt Flow	3	9	170	14	14	192

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	397	177	0	0	184	0
Stage 1	177	-	-	-	-	-
Stage 2	220	-	-	-	-	-
Critical Hdwy	6.4	6.37	-	-	4.1	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.453	-	-	2.2	-
Pot Cap-1 Maneuver	612	829	-	-	1403	-
Stage 1	859	-	-	-	-	-
Stage 2	821	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	605	829	-	-	1403	-
Mov Cap-2 Maneuver	605	-	-	-	-	-
Stage 1	859	-	-	-	-	-
Stage 2	812	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	9.8	0	0.5
HCM LOS	A		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	759	1403	-
HCM Lane V/C Ratio	-	-	0.016	0.01	-
HCM Control Delay (s)	-	-	9.8	7.6	0
HCM Lane LOS	-	-	A	A	A
HCM 95th %tile Q(veh)	-	-	0	0	-

Intersection	
Int Delay, s/veh	1

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	7	14	23	151	152	13
Future Vol, veh/h	7	14	23	151	152	13
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	86	86	85	85
Heavy Vehicles, %	2	2	2	4	4	2
Mvmt Flow	8	15	27	176	179	15

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	417	187	194	0	-	0
Stage 1	187	-	-	-	-	-
Stage 2	230	-	-	-	-	-
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	592	855	1379	-	-	-
Stage 1	845	-	-	-	-	-
Stage 2	808	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	579	855	1379	-	-	-
Mov Cap-2 Maneuver	579	-	-	-	-	-
Stage 1	826	-	-	-	-	-
Stage 2	808	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	10	1	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1379	-	738	-	-
HCM Lane V/C Ratio	0.019	-	0.031	-	-
HCM Control Delay (s)	7.7	0	10	-	-
HCM Lane LOS	A	A	B	-	-
HCM 95th %tile Q(veh)	0.1	-	0.1	-	-

Intersection	
Intersection Delay, s/veh	10.9
Intersection LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	53	153	59	7	88	45	51	79	8	59	83	22
Future Vol, veh/h	53	153	59	7	88	45	51	79	8	59	83	22
Peak Hour Factor	0.93	0.93	0.93	0.78	0.78	0.78	0.74	0.74	0.74	0.90	0.90	0.90
Heavy Vehicles, %	0	5	7	0	5	10	6	3	0	4	5	6
Mvmt Flow	57	165	63	9	113	58	69	107	11	66	92	24
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	11.6	10.1	10.9	10.7
HCM LOS	B	B	B	B

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	37%	20%	5%	36%
Vol Thru, %	57%	58%	63%	51%
Vol Right, %	6%	22%	32%	13%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	138	265	140	164
LT Vol	51	53	7	59
Through Vol	79	153	88	83
RT Vol	8	59	45	22
Lane Flow Rate	186	285	179	182
Geometry Grp	1	1	1	1
Degree of Util (X)	0.289	0.406	0.259	0.279
Departure Headway (Hd)	5.578	5.129	5.203	5.507
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	643	701	689	652
Service Time	3.615	3.163	3.242	3.545
HCM Lane V/C Ratio	0.289	0.407	0.26	0.279
HCM Control Delay	10.9	11.6	10.1	10.7
HCM Lane LOS	B	B	B	B
HCM 95th-tile Q	1.2	2	1	1.1

Intersection	
Int Delay, s/veh	3.2

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	86	23	22	100	103	83
Future Vol, veh/h	86	23	22	100	103	83
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	91	91	86	86	79	79
Heavy Vehicles, %	1	10	10	4	2	1
Mvmt Flow	95	25	26	116	130	105

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	351	183	235	0	-	0
Stage 1	183	-	-	-	-	-
Stage 2	168	-	-	-	-	-
Critical Hdwy	6.41	6.3	4.2	-	-	-
Critical Hdwy Stg 1	5.41	-	-	-	-	-
Critical Hdwy Stg 2	5.41	-	-	-	-	-
Follow-up Hdwy	3.509	3.39	2.29	-	-	-
Pot Cap-1 Maneuver	648	839	1287	-	-	-
Stage 1	851	-	-	-	-	-
Stage 2	864	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	634	839	1287	-	-	-
Mov Cap-2 Maneuver	634	-	-	-	-	-
Stage 1	832	-	-	-	-	-
Stage 2	864	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	11.6	1.4	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1287	-	668	-	-
HCM Lane V/C Ratio	0.02	-	0.179	-	-
HCM Control Delay (s)	7.9	0	11.6	-	-
HCM Lane LOS	A	A	B	-	-
HCM 95th %tile Q(veh)	0.1	-	0.6	-	-

Intersection	
Int Delay, s/veh	1.1

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	6	12	106	4	16	112
Future Vol, veh/h	6	12	106	4	16	112
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	90	90	92	92	88	88
Heavy Vehicles, %	0	0	5	0	0	4
Mvmt Flow	7	13	115	4	18	127

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	280	117	0	0	119	0
Stage 1	117	-	-	-	-	-
Stage 2	163	-	-	-	-	-
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	714	941	-	-	1482	-
Stage 1	913	-	-	-	-	-
Stage 2	871	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	705	941	-	-	1482	-
Mov Cap-2 Maneuver	705	-	-	-	-	-
Stage 1	913	-	-	-	-	-
Stage 2	860	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	9.4	0	0.9
HCM LOS	A		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	847	1482	-
HCM Lane V/C Ratio	-	-	0.024	0.012	-
HCM Control Delay (s)	-	-	9.4	7.5	0
HCM Lane LOS	-	-	A	A	A
HCM 95th %tile Q(veh)	-	-	0.1	0	-

Intersection	
Int Delay, s/veh	1.4

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	9	17	18	101	108	10
Future Vol, veh/h	9	17	18	101	108	10
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	88	88
Heavy Vehicles, %	2	2	2	5	4	2
Mvmt Flow	10	18	20	110	123	11

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	279	129	134	0	-	0
Stage 1	129	-	-	-	-	-
Stage 2	150	-	-	-	-	-
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	711	921	1451	-	-	-
Stage 1	897	-	-	-	-	-
Stage 2	878	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	700	921	1451	-	-	-
Mov Cap-2 Maneuver	700	-	-	-	-	-
Stage 1	884	-	-	-	-	-
Stage 2	878	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	9.5	1.1	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1451	-	830	-	-
HCM Lane V/C Ratio	0.013	-	0.034	-	-
HCM Control Delay (s)	7.5	0	9.5	-	-
HCM Lane LOS	A	A	A	-	-
HCM 95th %tile Q(veh)	0	-	0.1	-	-

Intersection	
Intersection Delay, s/veh	9
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	21	70	40	4	84	36	52	60	6	39	63	29
Future Vol, veh/h	21	70	40	4	84	36	52	60	6	39	63	29
Peak Hour Factor	0.82	0.82	0.82	0.83	0.83	0.83	0.86	0.86	0.86	0.90	0.90	0.90
Heavy Vehicles, %	0	1	3	0	0	3	2	6	0	6	4	4
Mvmt Flow	26	85	49	5	101	43	60	70	7	43	70	32
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	8.9	8.8	9.1	9.1
HCM LOS	A	A	A	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	44%	16%	3%	30%
Vol Thru, %	51%	53%	68%	48%
Vol Right, %	5%	31%	29%	22%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	118	131	124	131
LT Vol	52	21	4	39
Through Vol	60	70	84	63
RT Vol	6	40	36	29
Lane Flow Rate	137	160	149	146
Geometry Grp	1	1	1	1
Degree of Util (X)	0.186	0.205	0.192	0.195
Departure Headway (Hd)	4.89	4.618	4.615	4.818
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	730	773	774	741
Service Time	2.947	2.668	2.664	2.874
HCM Lane V/C Ratio	0.188	0.207	0.193	0.197
HCM Control Delay	9.1	8.9	8.8	9.1
HCM Lane LOS	A	A	A	A
HCM 95th-tile Q	0.7	0.8	0.7	0.7

National Data & Surveying Services

Intersection Turning Movement Count

Location: Reservoir Ave & Lindeman Dr
City: Trumbull
Control: 1-Way Stop(EB)

Project ID: 25-410097-001
Date: 7/22/2025

Data - Total

NS/EW Streets:	Reservoir Ave				Reservoir Ave				Lindeman Dr				Lindeman Dr				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	6	17	0	0	0	9	39	0	19	0	9	0	0	0	0	0	99
7:15 AM	11	30	0	0	0	8	34	0	19	0	5	0	0	0	0	0	107
7:30 AM	13	24	0	0	0	11	53	0	29	0	13	0	0	0	0	0	143
7:45 AM	11	31	0	0	0	16	60	0	27	0	8	0	0	0	0	0	153
8:00 AM	13	28	0	0	0	14	82	0	33	0	10	1	0	0	0	0	181
8:15 AM	19	26	0	0	0	21	64	0	42	0	10	0	0	0	0	0	182
8:30 AM	31	34	0	0	0	16	74	0	42	0	16	0	0	0	0	0	213
8:45 AM	21	22	0	0	0	13	88	0	57	0	21	0	0	0	0	0	222
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	125	212	0	0	0	108	494	0	268	0	92	1	0	0	0	0	1300
APPROACH %'s :	37.09%	62.91%	0.00%	0.00%	0.00%	17.94%	82.06%	0.00%	74.24%	0.00%	25.48%	0.28%					
PEAK HR :	08:00 AM - 09:00 AM																TOTAL
PEAK HR VOL :	84	110	0	0	0	64	308	0	174	0	57	1	0	0	0	0	798
PEAK HR FACTOR :	0.677	0.809	0.000	0.000	0.000	0.762	0.875	0.000	0.763	0.000	0.679	0.250	0.000	0.000	0.000	0.000	0.899
	0.746				0.921				0.744								

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	8	21	0	0	0	31	45	0	74	0	18	0	0	0	0	0	197
4:15 PM	13	28	0	0	0	34	69	0	73	0	20	1	0	0	0	0	238
4:30 PM	17	28	0	0	0	23	21	0	59	0	14	0	0	0	0	0	162
4:45 PM	18	20	0	0	0	23	37	0	27	0	12	0	0	0	0	0	137
5:00 PM	11	14	0	0	0	19	24	0	39	0	12	0	0	0	0	0	119
5:15 PM	13	26	0	0	0	25	36	0	43	0	17	0	0	0	0	0	160
5:30 PM	13	25	0	0	0	25	48	0	28	0	15	1	0	0	0	0	155
5:45 PM	13	19	0	0	0	20	27	0	41	0	11	0	0	0	0	0	131
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	106	181	0	0	0	200	307	0	384	0	119	2	0	0	0	0	1299
APPROACH %'s :	36.93%	63.07%	0.00%	0.00%	0.00%	39.45%	60.55%	0.00%	76.04%	0.00%	23.56%	0.40%					
PEAK HR :	04:00 PM - 05:00 PM																TOTAL
PEAK HR VOL :	56	97	0	0	0	111	172	0	233	0	64	1	0	0	0	0	734
PEAK HR FACTOR :	0.778	0.866	0.000	0.000	0.000	0.816	0.623	0.000	0.787	0.000	0.800	0.250	0.000	0.000	0.000	0.000	0.771
	0.850				0.687				0.793								

National Data & Surveying Services

Intersection Turning Movement Count

Location: Reservoir Ave & Lindeman Dr
City: Trumbull
Control: 1-Way Stop(EB)

Project ID: 25-410097-001
Date: 7/22/2025

Data - Cars

NS/EW Streets:	Reservoir Ave				Reservoir Ave				Lindeman Dr				Lindeman Dr				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	6	16	0	0	0	9	38	0	19	0	8	0	0	0	0	0	96
7:15 AM	11	30	0	0	0	8	34	0	19	0	5	0	0	0	0	0	107
7:30 AM	12	23	0	0	0	10	53	0	29	0	12	0	0	0	0	0	139
7:45 AM	11	29	0	0	0	16	58	0	26	0	8	0	0	0	0	0	148
8:00 AM	11	26	0	0	0	13	79	0	32	0	9	1	0	0	0	0	171
8:15 AM	18	26	0	0	0	21	63	0	39	0	9	0	0	0	0	0	176
8:30 AM	26	34	0	0	0	16	70	0	41	0	16	0	0	0	0	0	203
8:45 AM	20	22	0	0	0	13	83	0	57	0	14	0	0	0	0	0	209
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	115	206	0	0	0	106	478	0	262	0	81	1	0	0	0	0	1249
APPROACH %'s :	35.83%	64.17%	0.00%	0.00%	0.00%	18.15%	81.85%	0.00%	76.16%	0.00%	23.55%	0.29%					
PEAK HR :	08:00 AM - 09:00 AM																TOTAL
PEAK HR VOL :	75	108	0	0	0	63	295	0	169	0	48	1	0	0	0	0	759
PEAK HR FACTOR :	0.721	0.794	0.000	0.000	0.000	0.750	0.889	0.000	0.741	0.000	0.750	0.250	0.000	0.000	0.000	0.000	0.908
	0.763				0.932				0.768								

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	8	20	0	0	0	30	45	0	72	0	17	0	0	0	0	0	192
4:15 PM	13	28	0	0	0	33	69	0	73	0	20	1	0	0	0	0	237
4:30 PM	13	28	0	0	0	23	21	0	59	0	13	0	0	0	0	0	157
4:45 PM	18	20	0	0	0	23	35	0	26	0	12	0	0	0	0	0	134
5:00 PM	10	14	0	0	0	19	24	0	39	0	10	0	0	0	0	0	116
5:15 PM	13	26	0	0	0	24	34	0	43	0	16	0	0	0	0	0	156
5:30 PM	12	25	0	0	0	25	48	0	28	0	14	1	0	0	0	0	153
5:45 PM	13	19	0	0	0	20	27	0	41	0	11	0	0	0	0	0	131
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	100	180	0	0	0	197	303	0	381	0	113	2	0	0	0	0	1276
APPROACH %'s :	35.71%	64.29%	0.00%	0.00%	0.00%	39.40%	60.60%	0.00%	76.81%	0.00%	22.78%	0.40%					
PEAK HR :	04:00 PM - 05:00 PM																TOTAL
PEAK HR VOL :	52	96	0	0	0	109	170	0	230	0	62	1	0	0	0	0	720
PEAK HR FACTOR :	0.722	0.857	0.000	0.000	0.000	0.826	0.616	0.000	0.788	0.000	0.775	0.250	0.000	0.000	0.000	0.000	0.759
	0.902				0.684				0.779								

National Data & Surveying Services

Intersection Turning Movement Count

Location: Reservoir Ave & Lindeman Dr
City: Trumbull
Control: 1-Way Stop(EB)

Project ID: 25-410097-001
Date: 7/22/2025

Data - HT

NS/EW Streets:	Reservoir Ave				Reservoir Ave				Lindeman Dr				Lindeman Dr				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	0	1	0	0	0	0	1	0	0	0	1	0	0	0	0	0	3
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	1	1	0	0	0	1	0	0	0	0	1	0	0	0	0	0	4
7:45 AM	0	2	0	0	0	0	2	0	1	0	0	0	0	0	0	0	5
8:00 AM	2	2	0	0	0	1	3	0	1	0	1	0	0	0	0	0	10
8:15 AM	1	0	0	0	0	0	1	0	3	0	1	0	0	0	0	0	6
8:30 AM	5	0	0	0	0	0	4	0	1	0	0	0	0	0	0	0	10
8:45 AM	1	0	0	0	0	0	5	0	0	0	7	0	0	0	0	0	13
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	10	6	0	0	0	2	16	0	6	0	11	0	0	0	0	0	51
APPROACH %'s :	62.50%	37.50%	0.00%	0.00%	0.00%	11.11%	88.89%	0.00%	35.29%	0.00%	64.71%	0.00%					
PEAK HR :	08:00 AM - 09:00 AM																TOTAL
PEAK HR VOL :	9	2	0	0	0	1	13	0	5	0	9	0	0	0	0	0	39
PEAK HR FACTOR :	0.450	0.250	0.000	0.000	0.000	0.250	0.650	0.000	0.417	0.000	0.321	0.000	0.000	0.000	0.000	0.000	0.750
	0.550				0.700				0.500								

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	0	1	0	0	0	1	0	0	2	0	1	0	0	0	0	0	5
4:15 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
4:30 PM	4	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	5
4:45 PM	0	0	0	0	0	0	2	0	1	0	0	0	0	0	0	0	3
5:00 PM	1	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	3
5:15 PM	0	0	0	0	0	1	2	0	0	0	1	0	0	0	0	0	4
5:30 PM	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	6	1	0	0	0	3	4	0	3	0	6	0	0	0	0	0	23
APPROACH %'s :	85.71%	14.29%	0.00%	0.00%	0.00%	42.86%	57.14%	0.00%	33.33%	0.00%	66.67%	0.00%					
PEAK HR :	04:00 PM - 05:00 PM																TOTAL
PEAK HR VOL :	4	1	0	0	0	2	2	0	3	0	2	0	0	0	0	0	14
PEAK HR FACTOR :	0.250	0.250	0.000	0.000	0.000	0.500	0.250	0.000	0.375	0.000	0.500	0.000	0.000	0.000	0.000	0.000	0.700
	0.313				0.500				0.417								

National Data & Surveying Services

Intersection Turning Movement Count

Location: Reservoir Ave & Lindeman Dr
City: Trumbull
Control: 1-Way Stop(EB)

Project ID: 25-410097-001
Date: 7/22/2025

Data - Bikes

NS/EW Streets:	Reservoir Ave				Reservoir Ave				Lindeman Dr				Lindeman Dr				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2
APPROACH %'s :	100.00%	0.00%	0.00%	0.00%					0.00%	0.00%	100.00%	0.00%					
PEAK HR :	08:00 AM - 09:00 AM																TOTAL
PEAK HR VOL :	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
PEAK HR FACTOR :	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.250
											0.250						

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
APPROACH %'s :																	
PEAK HR :	04:00 PM - 05:00 PM																TOTAL
PEAK HR VOL :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEAK HR FACTOR :	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	

National Data & Surveying Services

Intersection Turning Movement Count

Location: Reservoir Ave & Lindeman Dr
City: Trumbull

Project ID: 25-410097-001
Date: 7/22/2025

Data - Pedestrians (Crosswalks)

NS/EW Streets:	Reservoir Ave		Reservoir Ave		Lindeman Dr		Lindeman Dr		
AM	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG		
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
7:00 AM	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	1	0	0	0	0	1
7:30 AM	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	1	0	1
8:00 AM	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
TOTAL VOLUMES :	0	0	0	1	0	0	1	0	2
APPROACH %'s :			0.00%	100.00%			100.00%	0.00%	
PEAK HR :	08:00 AM - 09:00 AM								TOTAL
PEAK HR VOL :	0	0	0	0	0	0	0	0	0
PEAK HR FACTOR :									

PM	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG		
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
4:00 PM	0	0	1	0	0	0	0	0	1
4:15 PM	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	1	1
5:30 PM	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
TOTAL VOLUMES :	0	0	1	0	0	0	0	1	2
APPROACH %'s :			100.00%	0.00%			0.00%	100.00%	
PEAK HR :	04:00 PM - 05:00 PM								TOTAL
PEAK HR VOL :	0	0	1	0	0	0	0	0	1
PEAK HR FACTOR :			0.250						0.250
			0.250						

Prepared by National Data & Surveying Services

Reservoir Ave & Lindeman Dr

Peak Hour Turning Movement Count

ID: 25-410097-001
City: Trumbull

Day: Tuesday
Date: 7/22/2025

PEAK HOURS

AM	08:00 AM - 09:00 AM
NOON	NONE
PM	04:00 PM - 05:00 PM

COUNT PERIODS

AM	7:00 AM - 09:00 AM
NOON	NONE
PM	4:00 PM - 06:00 PM

CONTROL: 1-Way Stop(EB)

	AM	NOON	PM
TEV	798	0	734
PHF	0.90		0.77

Reservoir Ave — SOUTHBOUND

	Left	Thru	Right	U-Turn		
AM	308	64	0	0	284	AM
NOON	0	0	0	0	0	NOON
PM	172	111	0	0	330	PM

EASTBOUND — Lindeman Dr

AM	NOON	PM	
393	0	229	
1	0	1	0
174	0	233	0
0	0	0	1
57	0	64	0
AM	NOON	PM	

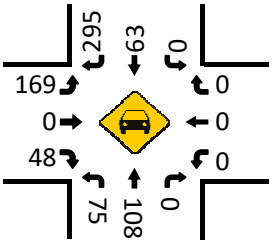
WESTBOUND — Lindeman Dr

PM	NOON	AM	
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	
PM	NOON	AM	

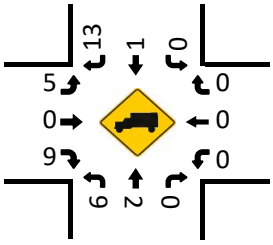
NORTHBOUND — Reservoir Ave

	Left	Thru	Right	U-Turn		
PM	175	0	56	97	0	PM
NOON	0	0	0	0	0	NOON
AM	121	0	84	110	0	AM

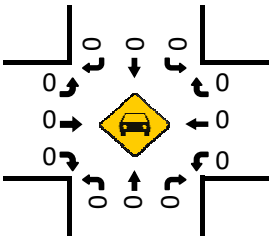
Cars (AM)



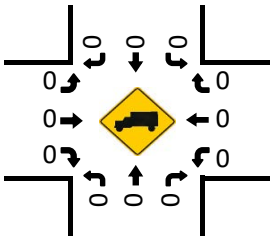
HT (AM)



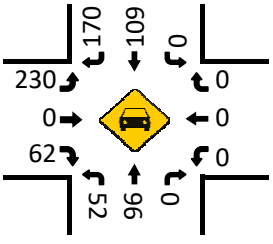
Cars (NOON)



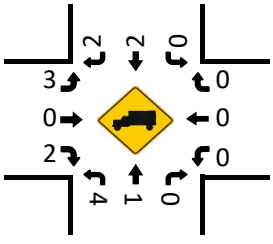
HT (NOON)



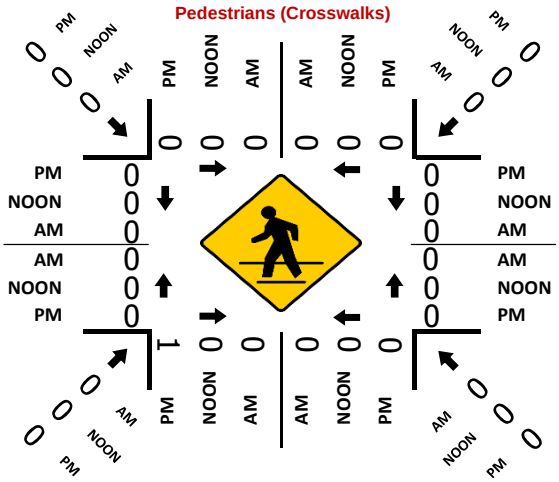
Cars (PM)



HT (PM)



Pedestrians (Crosswalks)



National Data & Surveying Services

Intersection Turning Movement Count

Location: Reservoir Ave & Rocky Hill Terrace
City: Trumbull
Control: 1-Way Stop(WB)

Project ID: 25-410097-002
Date: 7/22/2025

Data - Total

NS/EW Streets:	Reservoir Ave				Reservoir Ave				Rocky Hill Terrace				Rocky Hill Terrace				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	0	21	0	0	0	17	0	0	0	0	0	0	1	0	2	0	41
7:15 AM	0	39	0	1	0	15	0	0	0	0	0	0	1	0	2	0	58
7:30 AM	0	32	0	0	2	21	0	0	0	0	0	0	1	0	3	0	59
7:45 AM	0	39	0	0	0	24	0	0	0	0	0	0	1	0	3	0	67
8:00 AM	0	41	0	0	0	25	0	0	0	0	0	0	2	0	1	0	69
8:15 AM	0	39	0	0	2	27	0	0	0	0	0	0	5	0	5	0	78
8:30 AM	0	57	0	0	2	29	0	0	0	0	0	0	1	0	10	0	99
8:45 AM	0	40	0	0	1	31	0	0	0	0	0	0	1	0	2	0	75
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	308	0	1	7	189	0	0	0	0	0	0	13	0	28	0	546
APPROACH %'s :	0.00%	99.68%	0.00%	0.32%	3.57%	96.43%	0.00%	0.00%					31.71%	0.00%	68.29%	0.00%	
PEAK HR :	08:00 AM - 09:00 AM																TOTAL
PEAK HR VOL :	0	177	0	0	5	112	0	0	0	0	0	0	9	0	18	0	321
PEAK HR FACTOR :	0.000	0.776	0.000	0.000	0.625	0.903	0.000	0.000	0.000	0.000	0.000	0.000	0.450	0.000	0.450	0.000	0.811
		0.776				0.914								0.614			

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	0	24	1	0	3	45	0	0	0	0	0	0	2	0	3	0	78
4:15 PM	0	42	4	0	3	51	0	0	0	0	0	0	2	0	0	0	102
4:30 PM	0	42	5	0	4	33	0	0	0	0	0	0	0	0	3	0	87
4:45 PM	0	32	1	0	8	26	0	0	0	0	0	0	3	0	4	0	74
5:00 PM	0	24	4	0	1	29	0	0	0	0	0	0	2	0	1	0	61
5:15 PM	0	35	1	0	1	40	0	0	0	0	0	0	4	0	4	0	85
5:30 PM	0	35	3	0	2	38	0	0	0	0	0	0	0	0	4	0	82
5:45 PM	0	28	0	0	1	30	0	0	0	0	0	0	3	0	3	0	65
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	262	19	0	23	292	0	0	0	0	0	0	16	0	22	0	634
APPROACH %'s :	0.00%	93.24%	6.76%	0.00%	7.30%	92.70%	0.00%	0.00%					42.11%	0.00%	57.89%	0.00%	
PEAK HR :	04:00 PM - 05:00 PM																TOTAL
PEAK HR VOL :	0	140	11	0	18	155	0	0	0	0	0	0	7	0	10	0	341
PEAK HR FACTOR :	0.000	0.833	0.550	0.000	0.563	0.760	0.000	0.000	0.000	0.000	0.000	0.000	0.583	0.000	0.625	0.000	0.836
		0.803				0.801								0.607			

National Data & Surveying Services

Intersection Turning Movement Count

Location: Reservoir Ave & Rocky Hill Terrace
City: Trumbull
Control: 1-Way Stop(WB)

Project ID: 25-410097-002
Date: 7/22/2025

Data - Cars

NS/EW Streets:	Reservoir Ave				Reservoir Ave				Rocky Hill Terrace				Rocky Hill Terrace				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	0	20	0	0	0	16	0	0	0	0	0	0	1	0	2	0	39
7:15 AM	0	39	0	1	0	15	0	0	0	0	0	0	1	0	2	0	58
7:30 AM	0	30	0	0	2	19	0	0	0	0	0	0	1	0	3	0	55
7:45 AM	0	37	0	0	0	24	0	0	0	0	0	0	1	0	3	0	65
8:00 AM	0	37	0	0	0	23	0	0	0	0	0	0	2	0	1	0	63
8:15 AM	0	38	0	0	2	26	0	0	0	0	0	0	5	0	5	0	76
8:30 AM	0	52	0	0	2	29	0	0	0	0	0	0	1	0	10	0	94
8:45 AM	0	39	0	0	1	24	0	0	0	0	0	0	1	0	2	0	67
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	292	0	1	7	176	0	0	0	0	0	0	13	0	28	0	517
APPROACH %'s :	0.00%	99.66%	0.00%	0.34%	3.83%	96.17%	0.00%	0.00%					31.71%	0.00%	68.29%	0.00%	
PEAK HR :	08:00 AM - 09:00 AM																TOTAL
PEAK HR VOL :	0	166	0	0	5	102	0	0	0	0	0	0	9	0	18	0	300
PEAK HR FACTOR :	0.000	0.798	0.000	0.000	0.625	0.879	0.000	0.000	0.000	0.000	0.000	0.000	0.450	0.000	0.450	0.000	0.798
	0.798				0.863								0.614				

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	0	23	1	0	3	43	0	0	0	0	0	0	2	0	3	0	75
4:15 PM	0	42	4	0	3	50	0	0	0	0	0	0	2	0	0	0	101
4:30 PM	0	38	5	0	4	32	0	0	0	0	0	0	0	0	3	0	82
4:45 PM	0	32	0	0	8	26	0	0	0	0	0	0	3	0	4	0	73
5:00 PM	0	23	4	0	1	27	0	0	0	0	0	0	1	0	1	0	57
5:15 PM	0	35	1	0	1	38	0	0	0	0	0	0	4	0	4	0	83
5:30 PM	0	34	3	0	2	37	0	0	0	0	0	0	0	0	4	0	80
5:45 PM	0	28	0	0	1	30	0	0	0	0	0	0	3	0	3	0	65
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	255	18	0	23	283	0	0	0	0	0	0	15	0	22	0	616
APPROACH %'s :	0.00%	93.41%	6.59%	0.00%	7.52%	92.48%	0.00%	0.00%					40.54%	0.00%	59.46%	0.00%	
PEAK HR :	04:00 PM - 05:00 PM																TOTAL
PEAK HR VOL :	0	135	10	0	18	151	0	0	0	0	0	0	7	0	10	0	331
PEAK HR FACTOR :	0.000	0.804	0.500	0.000	0.563	0.755	0.000	0.000	0.000	0.000	0.000	0.000	0.583	0.000	0.625	0.000	0.819
	0.788				0.797								0.607				

National Data & Surveying Services

Intersection Turning Movement Count

Location: Reservoir Ave & Rocky Hill Terrace
City: Trumbull
Control: 1-Way Stop(WB)

Project ID: 25-410097-002
Date: 7/22/2025

Data - HT

NS/EW Streets:	Reservoir Ave				Reservoir Ave				Rocky Hill Terrace				Rocky Hill Terrace				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	4
7:45 AM	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
8:00 AM	0	4	0	0	0	2	0	0	0	0	0	0	0	0	0	0	6
8:15 AM	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2
8:30 AM	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
8:45 AM	0	1	0	0	0	7	0	0	0	0	0	0	0	0	0	0	8
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	16	0	0	0	13	0	0	0	0	0	0	0	0	0	0	29
APPROACH %'s :	0.00%	100.00%	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%									
PEAK HR :	08:00 AM - 09:00 AM																TOTAL
PEAK HR VOL :	0	11	0	0	0	10	0	0	0	0	0	0	0	0	0	0	21
PEAK HR FACTOR :	0.000	0.550	0.000	0.000	0.000	0.357	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.656
	0.550				0.357												

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	3
4:15 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
4:30 PM	0	4	0	0	0	1	0	0	0	0	0	0	0	0	0	0	5
4:45 PM	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
5:00 PM	0	1	0	0	0	2	0	0	0	0	0	0	1	0	0	0	4
5:15 PM	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2
5:30 PM	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	7	1	0	0	9	0	0	0	0	0	0	1	0	0	0	18
APPROACH %'s :	0.00%	87.50%	12.50%	0.00%	0.00%	100.00%	0.00%	0.00%					100.00%	0.00%	0.00%	0.00%	
PEAK HR :	04:00 PM - 05:00 PM																TOTAL
PEAK HR VOL :	0	5	1	0	0	4	0	0	0	0	0	0	0	0	0	0	10
PEAK HR FACTOR :	0.000	0.313	0.250	0.000	0.000	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.500
	0.375				0.500												

National Data & Surveying Services

Intersection Turning Movement Count

Location: Reservoir Ave & Rocky Hill Terrace
City: Trumbull
Control: 1-Way Stop(WB)

Project ID: 25-410097-002
Date: 7/22/2025

Data - Bikes

NS/EW Streets:	Reservoir Ave				Reservoir Ave				Rocky Hill Terrace				Rocky Hill Terrace				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2
APPROACH %'s :	0.00%	100.00%	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%									
PEAK HR :	08:00 AM - 09:00 AM																TOTAL
PEAK HR VOL :	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
PEAK HR FACTOR :	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.250
						0.250											

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
APPROACH %'s :																	
PEAK HR :	04:00 PM - 05:00 PM																TOTAL
PEAK HR VOL :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEAK HR FACTOR :	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	

National Data & Surveying Services

Intersection Turning Movement Count

Location: Reservoir Ave & Rocky Hill Terrace
City: Trumbull

Project ID: 25-410097-002
Date: 7/22/2025

Data - Pedestrians (Crosswalks)

NS/EW Streets:	Reservoir Ave		Reservoir Ave		Rocky Hill Terrace		Rocky Hill Terrace		
AM	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG		
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
7:00 AM	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	1	0	0	1
7:45 AM	0	0	0	0	0	0	0	0	0
8:00 AM	0	1	0	0	0	0	0	0	1
8:15 AM	0	0	0	0	1	0	0	0	1
8:30 AM	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	2	0	0	0	0	0	2
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
TOTAL VOLUMES :	0	1	2	0	1	1	0	0	5
APPROACH %'s :	0.00%	100.00%	100.00%	0.00%	50.00%	50.00%			
PEAK HR :	**08:00 AM - 09:00 AM**								TOTAL
PEAK HR VOL :	0	1	2	0	1	0	0	0	4
PEAK HR FACTOR :		0.250	0.250		0.250				0.500
	0.250		0.250		0.250				

PM	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG		
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
4:00 PM	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0
4:30 PM	1	0	0	0	0	1	0	0	2
4:45 PM	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	1	0	0	1
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
TOTAL VOLUMES :	1	0	0	0	0	2	0	0	3
APPROACH %'s :	100.00%	0.00%			0.00%	100.00%			
PEAK HR :	**04:00 PM - 05:00 PM**								TOTAL
PEAK HR VOL :	1	0	0	0	0	1	0	0	2
PEAK HR FACTOR :	0.250					0.250			0.250
	0.250				0.250				

Prepared by National Data & Surveying Services

Reservoir Ave & Rocky Hill Terrace

Peak Hour Turning Movement Count

ID: 25-410097-002
City: Trumbull

Day: Tuesday
Date: 7/22/2025

PEAK HOURS

AM	08:00 AM - 09:00 AM
NOON	NONE
PM	04:00 PM - 05:00 PM

COUNT PERIODS

AM	7:00 AM - 09:00 AM
NOON	NONE
PM	4:00 PM - 06:00 PM

SOUTHBOUND (Reservoir Ave)

AM	0	112	5	0	195	AM
NOON	0	0	0	0	0	NOON
PM	0	155	18	0	150	PM

EASTBOUND (Rocky Hill Terrace)

AM	NOON	PM	
0	0	0	
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
AM	NOON	PM	

WESTBOUND (Rocky Hill Terrace)

PM	NOON	AM	
10	0	18	0
0	0	0	1
7	0	9	0
0	0	0	0
29	0	5	
PM	NOON	AM	

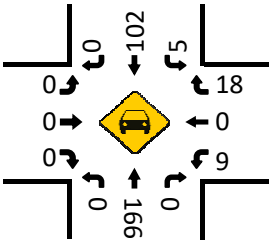
NORTHBOUND (Reservoir Ave)

PM	162	0	0	140	11	PM
NOON	0	0	0	0	0	NOON
AM	121	0	0	177	0	AM

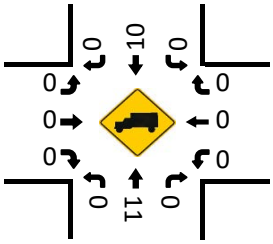
CONTROL: 1-Way Stop(WB)

TEV	321 AM	0 NOON	341 PM
PHF	0.81		0.84

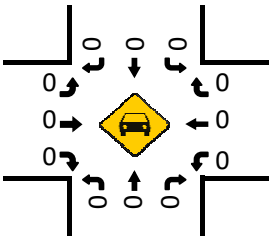
Cars (AM)



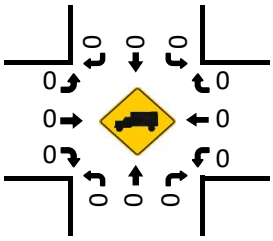
HT (AM)



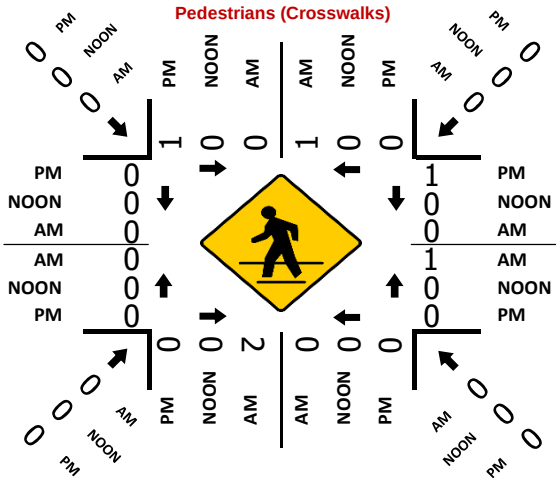
Cars (NOON)



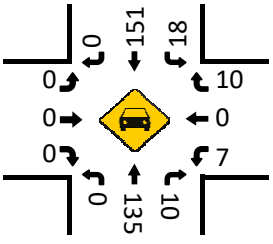
HT (NOON)



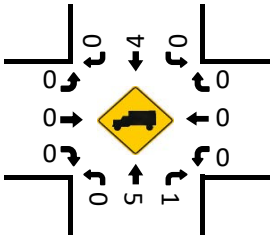
Pedestrians (Crosswalks)



Cars (PM)



HT (PM)



National Data & Surveying Services

Intersection Turning Movement Count

Location: Reservoir Ave/1980 Reservoir Ave & Old Town Rd/1077/1081 Old Town Rd
City: Trumbull
Control: 4-Way Stop

Project ID: 25-410097-003
Date: 7/22/2025

Data - Total

NS/EW Streets:	Reservoir Ave/1980 Reservoir Ave						Reservoir Ave/1980 Reservoir Ave						Old Town Rd/1077/1081 Old Town Rd						Old Town Rd/1077/1081 Old Town Rd																		
AM	NORTHBOUND						SOUTHBOUND						EASTBOUND						WESTBOUND						SOUTHBOUND2						EASTBOUND2						
	0 NL	1 NT	0 NR	0 NU	0 NL2	0 NT2	0 SL	1 ST	0 SR	0 SU	0 SR2	0 SU2	0 EL	1 ET	0 ER	0 EU	0 EL2	0 EU2	0 WL	1 WT	0 WR	0 WU	0 WT2	0 WR2	0 S2R	0 S2U	0 S2L2	0 S2T2	0 S2R2	0 S2U2	0 E2L	0 E2U	0 E2L2	0 E2T2	0 E2R2	0 E2U2	TOTAL
7:00 AM	15	10	0	0	0	0	6	10	2	0	0	0	2	6	10	0	0	0	1	16	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	85
7:15 AM	10	29	1	0	0	0	2	11	5	0	0	0	4	9	4	0	0	0	0	22	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105
7:30 AM	16	14	2	0	0	0	7	15	2	0	0	0	6	13	8	0	0	0	1	18	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	114
7:45 AM	17	24	1	0	0	0	4	14	8	0	0	0	4	10	10	0	0	0	0	27	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	129
8:00 AM	20	22	2	0	0	0	7	12	5	0	0	0	6	19	9	0	0	0	0	22	13	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	138
8:15 AM	20	18	0	0	0	0	7	18	9	0	0	0	10	10	10	0	0	0	0	30	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	145
8:30 AM	33	32	0	0	0	0	6	15	5	0	0	0	9	17	5	0	0	0	1	33	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	171
8:45 AM	21	20	1	0	1	0	8	21	6	0	0	0	5	23	14	0	0	0	1	33	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	165
	NL	NT	NR	NU	NL2	NT2	SL	ST	SR	SU	SR2	SU2	EL	ET	ER	EU	EL2	EU2	WL	WT	WR	WU	WT2	WR2	S2R	S2U	S2L2	S2T2	S2R2	S2U2	E2L	E2U	E2L2	E2T2	E2R2	E2U2	TOTAL
TOTAL VOLUMES :	152	169	7	0	1	0	47	116	42	0	0	0	46	107	70	0	0	0	4	201	89	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	1052
APPROACH %'s :	46.20%	51.37%	2.13%	0.00%	0.30%	0.00%	22.93%	56.59%	20.49%	0.00%	0.00%	0.00%	20.63%	47.98%	31.39%	0.00%	0.00%	0.00%	1.36%	68.37%	30.27%	0.00%	0.00%	0.00%							0.00%	0.00%	0.00%	0.00%	100.00%	0.00%	
PEAK HR :	08:00 AM - 09:00 AM																																				TOTAL
PEAK HR VOL :	94	92	3	0	1	0	28	66	25	0	0	0	30	69	38	0	0	0	2	118	52	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	619
PEAK HR FACTOR :	0.712	0.719	0.375	0.000	0.250	0.000	0.875	0.786	0.694	0.000	0.000	0.000	0.750	0.750	0.679	0.000	0.000	0.000	0.500	0.894	0.867	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.905
	0.731						0.850						0.815						0.878												0.250						

PM	NORTHBOUND						SOUTHBOUND						EASTBOUND						WESTBOUND						SOUTHBOUND2						EASTBOUND2						
	0 NL	1 NT	0 NR	0 NU	0 NL2	0 NT2	0 SL	1 ST	0 SR	0 SU	0 SR2	0 SU2	0 EL	1 ET	0 ER	0 EU	0 EL2	0 EU2	0 WL	1 WT	0 WR	0 WU	0 WT2	0 WR2	0 S2R	0 S2U	0 S2L2	0 S2T2	0 S2R2	0 S2U2	0 E2L	0 E2U	0 E2L2	0 E2T2	0 E2R2	0 E2U2	TOTAL
4:00 PM	17	9	0	0	0	0	19	22	4	0	0	0	7	29	10	0	0	0	1	16	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	149
4:15 PM	19	22	3	0	0	0	11	41	6	0	0	0	9	23	14	0	0	0	1	16	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	178
4:30 PM	10	20	1	0	0	0	9	17	7	0	0	0	12	23	10	0	0	0	0	17	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	142
4:45 PM	13	16	2	0	0	0	10	15	7	0	0	0	9	29	17	0	0	0	1	25	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	154
5:00 PM	12	12	0	0	0	0	7	21	4	0	0	0	9	26	13	0	0	0	0	21	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	132
5:15 PM	10	17	3	0	0	0	11	23	7	0	0	0	4	32	14	0	0	0	1	11	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	146
5:30 PM	12	16	2	0	0	0	10	18	10	0	0	0	6	27	17	0	0	0	0	18	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	152
5:45 PM	11	13	2	0	0	0	12	17	6	0	0	0	8	25	19	0	0	0	2	20	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	143
	NL	NT	NR	NU	NL2	NT2	SL	ST	SR	SU	SR2	SU2	EL	ET	ER	EU	EL2	EU2	WL	WT	WR	WU	WT2	WR2	S2R	S2U	S2L2	S2T2	S2R2	S2U2	E2L	E2U	E2L2	E2T2	E2R2	E2U2	TOTAL
TOTAL VOLUMES :	104	125	13	0	0	0	89	174	51	0	0	0	64	214	114	0	0	0	6	144	98	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1196
APPROACH %'s :	42.98%	51.65%	5.37%	0.00%	0.00%	0.00%	28.34%	55.41%	16.24%	0.00%	0.00%	0.00%	16.33%	54.59%	29.08%	0.00%	0.00%	0.00%	2.42%	58.06%	39.52%	0.00%	0.00%	0.00%													
PEAK HR :	04:00 PM - 05:00 PM																																				TOTAL
PEAK HR VOL :	59	67	6	0	0	0	49	95	24	0	0	0	37	104	51	0	0	0	3	74	54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	623
PEAK HR FACTOR :	0.776	0.761	0.500	0.000	0.000	0.000	0.645	0.579	0.857	0.000	0.000	0.000	0.771	0.897	0.750	0.000	0.000	0.000	0.750	0.740	0.844	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.875
	0.750						0.724						0.873						0.910																		

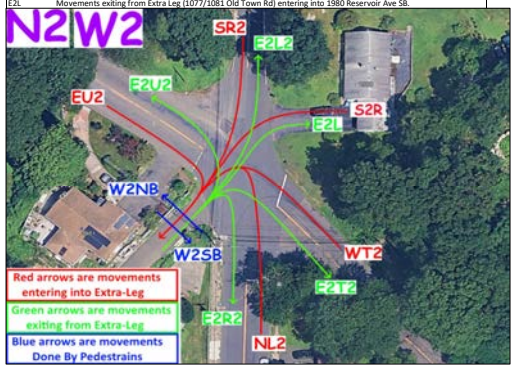
Explanation for extra leg movements (W2)

Movements entering the extra leg

SR2	Movements coming from SB on Reservoir Ave entering into the Extra Leg (1077/1081 Old Town Rd)
NL2	Movements coming from NB on Reservoir Ave entering into the Extra Leg (1077/1081 Old Town Rd)
EU2	Movements coming from EB on Old Town Rd entering into the Extra Leg (1077/1081 Old Town Rd)
WT2	Movements coming from WB on Old Town Rd entering into the Extra Leg (1077/1081 Old Town Rd)
S2R	Movements coming from SB on 1980 Reservoir Ave into the Extra Leg (1077/1081 Old Town Rd)

Movements exiting the extra leg

E2L2	Movements exiting from Extra Leg (1077/1081 Old Town Rd) entering into Reservoir Ave SB.
E2R2	Movements exiting from Extra Leg (1077/1081 Old Town Rd) entering into Reservoir Ave NB.
E2U2	Movements exiting from Extra Leg (1077/1081 Old Town Rd) entering into Old Town Rd EB.
E2T2	Movements exiting from Extra Leg (1077/1081 Old Town Rd) entering into Old Town Rd WB.
E2L	Movements exiting from Extra Leg (1077/1081 Old Town Rd) entering into 1980 Reservoir Ave SB.



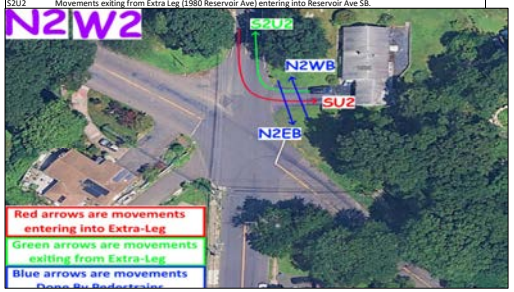
Explanation for extra leg movements (N2)

Movements entering the extra leg

SU2	Movements coming from SB on Reservoir Ave entering into the Extra Leg (1980 Reservoir Ave)

Movements exiting the extra leg

S2U2	Movements exiting from Extra Leg (1980 Reservoir Ave) entering into Reservoir Ave SB.



National Data & Surveying Services

Intersection Turning Movement Count

Location: Reservoir Ave/1980 Reservoir Ave & Old Town Rd/1077/1081 Old Town Rd
City: Trumbull
Control: 4-Way Stop

Project ID: 25-410097-003
Date: 7/22/2025

Data - Cars

NS/EW Streets: Reservoir Ave/1980 Reservoir Ave | Reservoir Ave/1980 Reservoir Ave | Old Town Rd/1077/1081 Old Town Rd | Old Town Rd/1077/1081 Old Town Rd | | |

AM

	NORTHBOUND						SOUTHBOUND						EASTBOUND						WESTBOUND						SOUTHBOUND2						EASTBOUND2						
	0 NL	1 NT	0 NR	0 NU	0 NL2	0 NT2	0 SL	1 ST	0 SR	0 SU	0 SR2	0 SU2	0 EL	1 ET	0 ER	0 EU	0 EL2	0 EU2	0 WL	1 WT	0 WR	0 WU	0 WT2	0 WR2	0 S2R	0 S2U	0 S2L2	0 S2T2	0 S2R2	0 S2U2	0 E2L	0 E2U	0 E2L2	0 E2T2	0 E2R2	0 E2U2	TOTAL
7:00 AM	15	10	0	0	0	0	6	9	2	0	0	0	2	6	10	0	0	0	1	13	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	80
7:15 AM	8	29	1	0	0	0	2	11	5	0	0	0	4	7	4	0	0	0	0	22	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	101
7:30 AM	14	13	2	0	0	0	7	13	2	0	0	0	6	12	8	0	0	0	1	17	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	106
7:45 AM	17	22	1	0	0	0	4	14	8	0	0	0	4	9	10	0	0	0	0	24	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	123
8:00 AM	20	20	2	0	0	0	6	11	5	0	0	0	5	16	9	0	0	0	0	21	12	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	128
8:15 AM	19	18	0	0	0	0	7	17	9	0	0	0	10	10	10	0	0	0	0	30	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	142
8:30 AM	28	28	0	0	0	0	6	15	5	0	0	0	9	17	4	0	0	0	1	31	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	158
8:45 AM	18	19	1	0	1	0	7	16	6	0	0	0	5	21	13	0	0	0	1	33	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	152
	NL	NT	NR	NU	NL2	NT2	SL	ST	SR	SU	SR2	SU2	EL	ET	ER	EU	EL2	EU2	WL	WT	WR	WU	WT2	WR2	S2R	S2U	S2L2	S2T2	S2R2	S2U2	E2L	E2U	E2L2	E2T2	E2R2	E2U2	TOTAL
TOTAL VOLUMES :	139	159	7	0	1	0	45	106	42	0	0	0	45	98	68	0	0	0	4	191	84	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	990
APPROACH %'s :	45.42%	51.96%	2.29%	0.00%	0.33%	0.00%	23.32%	54.92%	21.76%	0.00%	0.00%	0.00%	21.33%	46.45%	32.23%	0.00%	0.00%	0.00%	1.43%	68.46%	30.11%	0.00%	0.00%	0.00%							0.00%	0.00%	0.00%	0.00%	100.00%	0.00%	
PEAK HR :	08:00 AM - 09:00 AM																																				TOTAL
PEAK HR VOL :	85	85	3	0	1	0	26	59	25	0	0	0	29	64	36	0	0	0	2	115	49	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	580
PEAK HR FACTOR :	0.759	0.759	0.375	0.000	0.250	0.000	0.929	0.868	0.694	0.000	0.000	0.000	0.725	0.762	0.692	0.000	0.000	0.000	0.500	0.871	0.875	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.918
	0.777						0.833						0.827						0.902																		

PM

	NORTHBOUND						SOUTHBOUND						EASTBOUND						WESTBOUND						SOUTHBOUND2						EASTBOUND2						
	0 NL	1 NT	0 NR	0 NU	0 NL2	0 NT2	0 SL	1 ST	0 SR	0 SU	0 SR2	0 SU2	0 EL	1 ET	0 ER	0 EU	0 EL2	0 EU2	0 WL	1 WT	0 WR	0 WU	0 WT2	0 WR2	0 S2R	0 S2U	0 S2L2	0 S2T2	0 S2R2	0 S2U2	0 E2L	0 E2U	0 E2L2	0 E2T2	0 E2R2	0 E2U2	TOTAL
4:00 PM	16	9	0	0	0	0	18	21	4	0	0	0	7	29	10	0	0	0	1	15	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
4:15 PM	17	22	3	0	0	0	10	41	6	0	0	0	9	21	13	0	0	0	1	16	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	172
4:30 PM	10	17	1	0	0	0	9	16	7	0	0	0	12	23	9	0	0	0	0	17	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	136
4:45 PM	12	14	2	0	0	0	10	15	7	0	0	0	9	27	17	0	0	0	1	25	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	149
5:00 PM	12	12	0	0	0	0	6	19	4	0	0	0	9	26	13	0	0	0	0	21	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	129
5:15 PM	10	17	3	0	0	0	11	21	7	0	0	0	4	32	14	0	0	0	1	11	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
5:30 PM	12	15	2	0	0	0	10	17	10	0	0	0	6	26	17	0	0	0	0	18	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	149
5:45 PM	10	13	2	0	0	0	12	17	6	0	0	0	8	24	19	0	0	0	2	20	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	141
	NL	NT	NR	NU	NL2	NT2	SL	ST	SR	SU	SR2	SU2	EL	ET	ER	EU	EL2	EU2	WL	WT	WR	WU	WT2	WR2	S2R	S2U	S2L2	S2T2	S2R2	S2U2	E2L	E2U	E2L2	E2T2	E2R2	E2U2	TOTAL
TOTAL VOLUMES :	99	119	13	0	0	0	86	167	51	0	0	0	64	208	112	0	0	0	6	143	96	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1164
APPROACH %'s :	42.86%	51.52%	5.63%	0.00%	0.00%	0.00%	28.29%	54.93%	16.78%	0.00%	0.00%	0.00%	16.67%	54.17%	29.17%	0.00%	0.00%	0.00%	2.45%	58.37%	39.18%	0.00%	0.00%	0.00%													
PEAK HR :	04:00 PM - 05:00 PM																																				TOTAL
PEAK HR VOL :	55	62	6	0	0	0	47	93	24	0	0	0	37	100	49	0	0	0	3	73	52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	601
PEAK HR FACTOR :	0.809	0.705	0.500	0.000	0.000	0.000	0.653	0.567	0.857	0.000	0.000	0.000	0.771	0.862	0.721	0.000	0.000	0.000	0.750	0.730	0.867	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.874
	0.732						0.719						0.877						0.889																		

National Data & Surveying Services

Intersection Turning Movement Count

Location: Reservoir Ave/1980 Reservoir Ave & Old Town Rd/1077/1081 Old Town Rd
City: Trumbull
Control: 4-Way Stop

Project ID: 25-410097-003
Date: 7/22/2025

Data - HT

NS/EW Streets: Reservoir Ave/1980 Reservoir Ave | Reservoir Ave/1980 Reservoir Ave | Old Town Rd/1077/1081 Old Town Rd | Old Town Rd/1077/1081 Old Town Rd | | |

AM

	NORTHBOUND						SOUTHBOUND						EASTBOUND						WESTBOUND						SOUTHBOUND2						EASTBOUND2						
	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	NL	NT	NR	NU	NL2	NT2	SL	ST	SR	SU	SR2	SU2	EL	ET	ER	EU	EL2	EU2	WL	WT	WR	WU	WT2	WR2	S2R	S2U	S2L2	S2T2	S2R2	S2U2	E2L	E2U	E2L2	E2T2	E2R2	E2U2	TOTAL
7:00 AM	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
7:15 AM	2	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
7:30 AM	2	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
7:45 AM	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
8:00 AM	0	2	0	0	0	0	1	1	0	0	0	0	1	3	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
8:15 AM	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
8:30 AM	5	4	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
8:45 AM	3	1	0	0	0	0	1	5	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
	NL	NT	NR	NU	NL2	NT2	SL	ST	SR	SU	SR2	SU2	EL	ET	ER	EU	EL2	EU2	WL	WT	WR	WU	WT2	WR2	S2R	S2U	S2L2	S2T2	S2R2	S2U2	E2L	E2U	E2L2	E2T2	E2R2	E2U2	TOTAL
TOTAL VOLUMES :	13	10	0	0	0	0	2	10	0	0	0	0	1	9	2	0	0	0	0	10	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	62
APPROACH %'s :	56.52%	43.48%	0.00%	0.00%	0.00%	0.00%	16.67%	83.33%	0.00%	0.00%	0.00%	0.00%	8.33%	75.00%	16.67%	0.00%	0.00%	0.00%	0.00%	66.67%	33.33%	0.00%	0.00%	0.00%													
PEAK HR :	08:00 AM - 09:00 AM																																				TOTAL
PEAK HR VOL :	9	7	0	0	0	0	2	7	0	0	0	0	1	5	2	0	0	0	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39
PEAK HR FACTOR :	0.450	0.438	0.000	0.000	0.000	0.000	0.500	0.350	0.000	0.000	0.000	0.000	0.250	0.417	0.500	0.000	0.000	0.000	0.000	0.375	0.750	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.750
	0.444						0.375						0.500						0.500																		

PM

	NORTHBOUND						SOUTHBOUND						EASTBOUND						WESTBOUND						SOUTHBOUND2						EASTBOUND2						
	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	NL	NT	NR	NU	NL2	NT2	SL	ST	SR	SU	SR2	SU2	EL	ET	ER	EU	EL2	EU2	WL	WT	WR	WU	WT2	WR2	S2R	S2U	S2L2	S2T2	S2R2	S2U2	E2L	E2U	E2L2	E2T2	E2R2	E2U2	TOTAL
4:00 PM	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
4:15 PM	2	0	0	0	0	0	1	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
4:30 PM	0	3	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
4:45 PM	1	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
5:00 PM	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
5:15 PM	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
5:30 PM	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
5:45 PM	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
	NL	NT	NR	NU	NL2	NT2	SL	ST	SR	SU	SR2	SU2	EL	ET	ER	EU	EL2	EU2	WL	WT	WR	WU	WT2	WR2	S2R	S2U	S2L2	S2T2	S2R2	S2U2	E2L	E2U	E2L2	E2T2	E2R2	E2U2	TOTAL
TOTAL VOLUMES :	5	6	0	0	0	0	3	7	0	0	0	0	0	6	2	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32
APPROACH %'s :	45.45%	54.55%	0.00%	0.00%	0.00%	0.00%	30.00%	70.00%	0.00%	0.00%	0.00%	0.00%	0.00%	75.00%	25.00%	0.00%	0.00%	0.00%	0.00%	33.33%	66.67%	0.00%	0.00%	0.00%													
PEAK HR :	04:00 PM - 05:00 PM																																				TOTAL
PEAK HR VOL :	4	5	0	0	0	0	2	2	0	0	0	0	0	4	2	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
PEAK HR FACTOR :	0.500	0.417	0.000	0.000	0.000	0.000	0.500	0.500	0.000	0.000	0.000	0.000	0.000	0.500	0.500	0.000	0.000	0.000	0.000	0.250	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.917
	0.750						0.500						0.500						0.375																		

National Data & Surveying Services

Intersection Turning Movement Count

Location: Reservoir Ave/1980 Reservoir Ave & Old Town Rd/1077/1081 Old Town Rd
City: Trumbull
Control: 4-Way Stop

Project ID: 25-410097-003
Date: 7/22/2025

Data - Bikes

NS/EW Streets: Reservoir Ave/1980 Reservoir Ave | Reservoir Ave/1980 Reservoir Ave | Old Town Rd/1077/1081 Old Town Rd | Old Town Rd/1077/1081 Old Town Rd | | |

AM

	NORTHBOUND						SOUTHBOUND						EASTBOUND						WESTBOUND						SOUTHBOUND2						EASTBOUND2						
	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	NL	NT	NR	NU	NL2	NT2	SL	ST	SR	SU	SR2	SU2	EL	ET	ER	EU	EL2	EU2	WL	WT	WR	WU	WT2	WR2	S2R	S2U	S2L2	S2T2	S2R2	S2U2	E2L	E2U	E2L2	E2T2	E2R2	E2U2	TOTAL
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NL	NT	NR	NU	NL2	NT2	SL	ST	SR	SU	SR2	SU2	EL	ET	ER	EU	EL2	EU2	WL	WT	WR	WU	WT2	WR2	S2R	S2U	S2L2	S2T2	S2R2	S2U2	E2L	E2U	E2L2	E2T2	E2R2	E2U2	TOTAL
TOTAL VOLUMES :	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
APPROACH %'s :							100.00%	0.00%	0.00%	0.00%	0.00%	0.00%							0.00%	0.00%	100.00%	0.00%	0.00%	0.00%													
PEAK HR :	08:00 AM - 09:00 AM																																				TOTAL
PEAK HR VOL :	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
PEAK HR FACTOR :	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.250
							0.250																														

PM

	NORTHBOUND						SOUTHBOUND						EASTBOUND						WESTBOUND						SOUTHBOUND2						EASTBOUND2						
	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	NL	NT	NR	NU	NL2	NT2	SL	ST	SR	SU	SR2	SU2	EL	ET	ER	EU	EL2	EU2	WL	WT	WR	WU	WT2	WR2	S2R	S2U	S2L2	S2T2	S2R2	S2U2	E2L	E2U	E2L2	E2T2	E2R2	E2U2	TOTAL
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NL	NT	NR	NU	NL2	NT2	SL	ST	SR	SU	SR2	SU2	EL	ET	ER	EU	EL2	EU2	WL	WT	WR	WU	WT2	WR2	S2R	S2U	S2L2	S2T2	S2R2	S2U2	E2L	E2U	E2L2	E2T2	E2R2	E2U2	TOTAL
TOTAL VOLUMES :	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
APPROACH %'s :	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%							0.00%	0.00%	100.00%	0.00%	0.00%	0.00%																			
PEAK HR :	04:00 PM - 05:00 PM																																				TOTAL
PEAK HR VOL :	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
PEAK HR FACTOR :	0.250	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.250
	0.250												0.250																								

National Data & Surveying Services

Intersection Turning Movement Count

Location: Reservoir Ave/1980 Reservoir Ave & Old Town Rd/1077/1081 Old Town Rd
City: Trumbull

Project ID: 25-410097-003
Date: 7/22/2025

Data - Pedestrians (Crosswalks)

NS/EW Streets:	Reservoir Ave/1980 Reservoir Ave		Reservoir Ave/1980 Reservoir Ave		Old Town Rd/1077/1081 Old Town Rd		Old Town Rd/1077/1081 Old Town Rd						
AM	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG		NORTH LEG 2		WEST LEG 2		
	EB	WB	EB	WB	NB	SB	NB	SB	EB	WB	NB	SB	TOTAL
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	1	0	0	0	1	0	2
8:00 AM	0	0	0	0	0	0	0	0	0	0	2	0	2
8:15 AM	0	0	0	0	1	0	1	0	0	0	1	2	5
8:30 AM	0	0	0	1	0	0	0	0	0	0	1	0	2
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	EB	WB	EB	WB	NB	SB	NB	SB	EB	WB	NB	SB	TOTAL
TOTAL VOLUMES :	0	0	0	1	1	0	2	0	0	0	5	2	11
APPROACH %'s :			0.00%	100.00%	100.00%	0.00%	100.00%	0.00%			71.43%	28.57%	
PEAK HR :	08:00 AM - 09:00 AM												TOTAL
PEAK HR VOL :	0	0	0	1	1	0	1	0	0	0	4	2	9
PEAK HR FACTOR :				0.250	0.250		0.250				0.500	0.250	0.450
			0.250		0.250		0.250				0.500		

PM	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG		NORTH LEG 2		WEST LEG 2		
	EB	WB	EB	WB	NB	SB	NB	SB	EB	WB	NB	SB	TOTAL
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	1	1
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	2	1	3
5:15 PM	0	1	0	0	0	0	0	0	0	0	0	0	1
5:30 PM	0	0	0	0	0	0	1	0	0	0	2	0	3
5:45 PM	0	0	0	0	0	0	0	0	0	0	1	2	3
	EB	WB	EB	WB	NB	SB	NB	SB	EB	WB	NB	SB	TOTAL
TOTAL VOLUMES :	0	1	0	0	0	0	1	0	0	0	5	4	11
APPROACH %'s :	0.00%	100.00%					100.00%	0.00%			55.56%	44.44%	
PEAK HR :	04:00 PM - 05:00 PM												TOTAL
PEAK HR VOL :	0	0	0	0	0	0	0	0	0	0	0	1	1
PEAK HR FACTOR :												0.250	0.250
											0.250		

Prepared by National Data & Surveying Services

Reservoir Ave/1980 Reservoir Ave & Old Town Rd/1077/1081 Old Town Rd

Peak Hour Turning Movement Count

ID: 25-410097-003
City: Trumbull

Day: Tuesday
Date: 7/22/2025

PEAK HOURS	COUNT PERIODS
08:00 AM - 09:00 AM	7:00 AM - 09:00 AM
NONE	NONE
04:00 PM - 05:00 PM	4:00 PM - 06:00 PM

CONTROL: 4-Way Stop

	AM	NOON	PM	AM
TEV	617	0	623	
PHF	0.90		0.88	

SOUTHBOUND — Reservoir Ave/1980 Reservoir Ave

	Left	Thru	Right	U-Turn	Total	
AM	25	66	28	0	174	AM
NOON	0	0	0	0	0	NOON
PM	24	95	49	0	158	PM

EASTBOUND — Old Town Rd/1077/1081 Old Town Rd

	Left	Thru	Right	U-Turn	
AM	237	0	157	0	AM
NOON	0	0	0	1	NOON
PM	30	0	37	0	PM
	69	0	104	0	
	38	0	51	0	

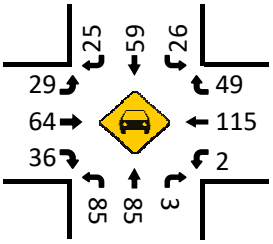
WESTBOUND — Old Town Rd/1077/1081 Old Town Rd

	Left	Thru	Right	U-Turn	
PM	54	0	52	0	PM
NOON	74	0	118	1	NOON
AM	3	0	2	0	AM
	0	0	0	0	
	159	0	100		

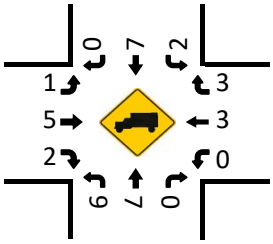
NORTHBOUND — Reservoir Ave/1980 Reservoir Ave

	Left	Thru	Right	U-Turn	Total	
PM	149	0	59	67	6	PM
NOON	0	0	0	0	0	NOON
AM	106	0	94	92	3	AM

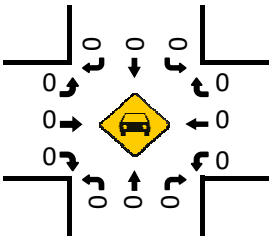
Cars (AM)



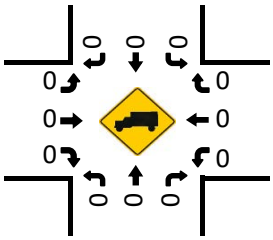
HT (AM)



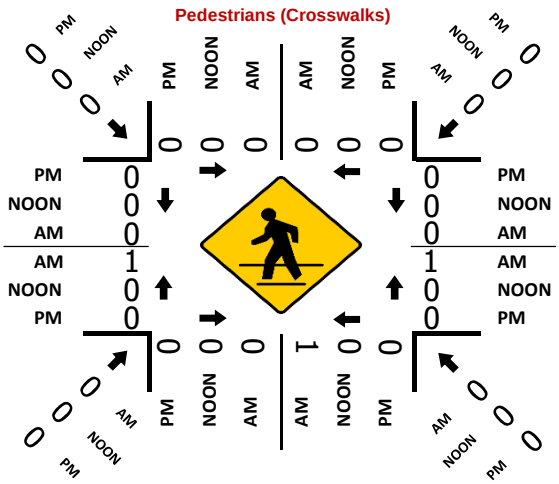
Cars (NOON)



HT (NOON)



Pedestrians (Crosswalks)


PM
NOON
AM
0
0
0
0
0
0
0
0
0
0
0

National Data & Surveying Services

Intersection Turning Movement Count

Location: Reservoir Ave & Lindeman Dr
City: Trumbull
Control: 1-Way Stop(EB)

Project ID: 25-410097-001
Date: 7/19/2025

Data - Total

NS/EW Streets:	Reservoir Ave				Reservoir Ave				Lindeman Dr				Lindeman Dr				
NOON	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
11:00 AM	7	24	0	0	0	19	20	0	27	0	7	0	0	0	0	0	104
11:15 AM	6	13	0	0	0	18	24	0	25	0	4	1	0	0	0	0	91
11:30 AM	6	21	0	0	0	21	19	0	21	0	8	0	0	0	0	0	96
11:45 AM	4	28	0	0	0	18	15	0	21	0	5	0	0	0	0	0	91
12:00 PM	3	23	0	0	0	29	16	0	23	0	2	0	0	0	0	0	96
12:15 PM	7	18	0	0	0	24	31	0	19	0	6	0	0	0	0	0	105
12:30 PM	5	16	0	0	0	21	15	0	28	0	9	0	0	0	0	0	94
12:45 PM	5	8	0	0	0	20	19	0	18	0	3	0	0	0	0	0	73
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	43	151	0	0	0	170	159	0	182	0	44	1	0	0	0	0	750
APPROACH %'s :	22.16%	77.84%	0.00%	0.00%	0.00%	51.67%	48.33%	0.00%	80.18%	0.00%	19.38%	0.44%					
PEAK HR :	11:30 AM - 12:30 PM																TOTAL
PEAK HR VOL :	20	90	0	0	0	92	81	0	84	0	21	0	0	0	0	0	388
PEAK HR FACTOR :	0.714	0.804	0.000	0.000	0.000	0.793	0.653	0.000	0.913	0.000	0.656	0.000	0.000	0.000	0.000	0.000	0.924
	0.859				0.786				0.905								

National Data & Surveying Services

Intersection Turning Movement Count

Location: Reservoir Ave & Lindeman Dr
City: Trumbull
Control: 1-Way Stop(EB)

Project ID: 25-410097-001
Date: 7/19/2025

Data - Cars

NS/EW Streets:	Reservoir Ave				Reservoir Ave				Lindeman Dr				Lindeman Dr				
NOON	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
11:00 AM	7	24	0	0	0	18	20	0	27	0	6	0	0	0	0	0	102
11:15 AM	5	13	0	0	0	18	24	0	25	0	4	1	0	0	0	0	90
11:30 AM	6	19	0	0	0	21	19	0	21	0	7	0	0	0	0	0	93
11:45 AM	3	28	0	0	0	18	15	0	20	0	5	0	0	0	0	0	89
12:00 PM	3	22	0	0	0	28	15	0	23	0	1	0	0	0	0	0	92
12:15 PM	6	17	0	0	0	23	31	0	19	0	6	0	0	0	0	0	102
12:30 PM	4	16	0	0	0	19	15	0	25	0	8	0	0	0	0	0	87
12:45 PM	5	8	0	0	0	20	19	0	18	0	3	0	0	0	0	0	73
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	39	147	0	0	0	165	158	0	178	0	40	1	0	0	0	0	728
APPROACH %'s :	20.97%	79.03%	0.00%	0.00%	0.00%	51.08%	48.92%	0.00%	81.28%	0.00%	18.26%	0.46%					
PEAK HR :	**11:30 AM - 12:30 PM**																TOTAL
PEAK HR VOL :	18	86	0	0	0	90	80	0	83	0	19	0	0	0	0	0	376
PEAK HR FACTOR :	0.750	0.768	0.000	0.000	0.000	0.804	0.645	0.000	0.902	0.000	0.679	0.000	0.000	0.000	0.000	0.000	0.922
		0.839				0.787				0.911							

National Data & Surveying Services

Intersection Turning Movement Count

Location: Reservoir Ave & Lindeman Dr
City: Trumbull
Control: 1-Way Stop(EB)

Project ID: 25-410097-001
Date: 7/19/2025

Data - HT

NS/EW Streets:	Reservoir Ave				Reservoir Ave				Lindeman Dr				Lindeman Dr				
NOON	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
11:00 AM	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	2
11:15 AM	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
11:30 AM	0	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	3
11:45 AM	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	2
12:00 PM	0	1	0	0	0	1	1	0	0	0	1	0	0	0	0	0	4
12:15 PM	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	3
12:30 PM	1	0	0	0	0	2	0	0	3	0	1	0	0	0	0	0	7
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	4	4	0	0	0	5	1	0	4	0	4	0	0	0	0	0	22
APPROACH %'s :	50.00%	50.00%	0.00%	0.00%	0.00%	83.33%	16.67%	0.00%	50.00%	0.00%	50.00%	0.00%					
PEAK HR :	11:30 AM - 12:30 PM																TOTAL
PEAK HR VOL :	2	4	0	0	0	2	1	0	1	0	2	0	0	0	0	0	12
PEAK HR FACTOR :	0.500	0.500	0.000	0.000	0.000	0.500	0.250	0.000	0.250	0.000	0.500	0.000	0.000	0.000	0.000	0.000	0.750
	0.750				0.375				0.750								

National Data & Surveying Services

Intersection Turning Movement Count

Location: Reservoir Ave & Lindeman Dr
City: Trumbull
Control: 1-Way Stop(EB)

Project ID: 25-410097-001
Date: 7/19/2025

Data - Bikes

NS/EW Streets:	Reservoir Ave				Reservoir Ave				Lindeman Dr				Lindeman Dr				
NOON	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:30 AM	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
11:45 AM	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2
APPROACH %'s :									100.00%	0.00%	0.00%	0.00%					
PEAK HR :	11:30 AM - 12:30 PM																TOTAL
PEAK HR VOL :	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2
PEAK HR FACTOR :	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.500
										0.500							

National Data & Surveying Services

Intersection Turning Movement Count

Location: Reservoir Ave & Lindeman Dr
City: Trumbull

Project ID: 25-410097-001
Date: 7/19/2025

Data - Pedestrians (Crosswalks)

NS/EW Streets:	Reservoir Ave		Reservoir Ave		Lindeman Dr		Lindeman Dr		
NOON	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG		
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
11:00 AM	0	1	0	0	0	0	0	0	1
11:15 AM	0	0	0	1	0	0	0	0	1
11:30 AM	0	0	0	0	0	0	0	0	0
11:45 AM	0	0	0	0	0	0	0	0	0
12:00 PM	0	0	0	1	0	0	0	0	1
12:15 PM	0	0	0	0	0	0	0	0	0
12:30 PM	0	0	2	0	0	0	0	0	2
12:45 PM	0	0	0	0	0	0	0	0	0
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
TOTAL VOLUMES :	0	1	2	2	0	0	0	0	5
APPROACH %'s :	0.00%	100.00%	50.00%	50.00%					
PEAK HR :	**11:30 AM - 12:30 PM**								TOTAL
PEAK HR VOL :	0	0	0	1	0	0	0	0	1
PEAK HR FACTOR :				0.250					0.250
				0.250					

Prepared by National Data & Surveying Services

Reservoir Ave & Lindeman Dr

Peak Hour Turning Movement Count

ID: 25-410097-001
City: Trumbull

Day: Saturday
Date: 7/19/2025

PEAK HOURS	COUNT PERIODS
NONE	NONE
11:30 AM - 12:30 PM	11:00 AM - 01:00 PM
NONE	NONE

SOUTHBOUND (Reservoir Ave)

	Left	Thru	Right	U-Turn	
AM	0	0	0	0	0
NOON	81	92	0	0	174
PM	0	0	0	0	0

EASTBOUND (Lindeman Dr)

	Left	Thru	Right	
AM	0	0	0	0
NOON	101	84	0	0
PM	0	0	0	1
		21	0	0

WESTBOUND (Lindeman Dr)

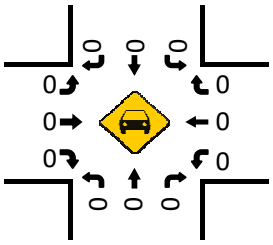
	Left	Thru	Right	
PM	0	0	0	0
NOON	0	0	0	0
AM	0	0	0	0
		0	0	0

NORTHBOUND (Reservoir Ave)

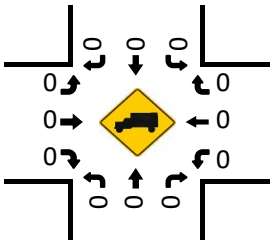
	Left	Thru	Right	U-Turn	
PM	0	0	0	0	0
NOON	113	0	20	90	0
AM	0	0	0	0	0

CONTROL	AM	NOON	PM
1-Way Stop(EB)			
TEV	0	388	0
PHF		0.92	

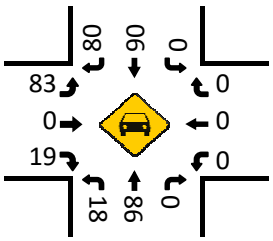
Cars (AM)



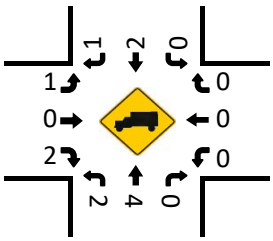
HT (AM)



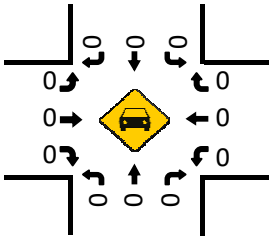
Cars (NOON)



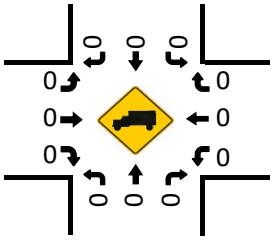
HT (NOON)



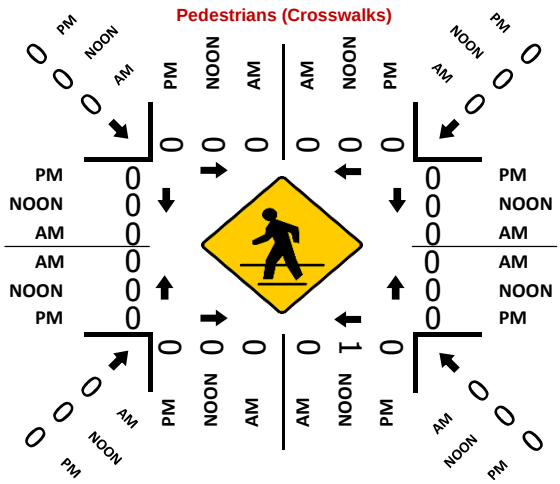
Cars (PM)



HT (PM)



Pedestrians (Crosswalks)



National Data & Surveying Services

Intersection Turning Movement Count

Location: Reservoir Ave & Rocky Hill Terrace
City: Trumbull
Control: 1-Way Stop(WB)

Project ID: 25-410097-002
Date: 7/19/2025

Data - Total

NS/EW Streets:	Reservoir Ave				Reservoir Ave				Rocky Hill Terrace				Rocky Hill Terrace				
NOON	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
11:00 AM	0	26	1	0	1	26	0	0	0	0	0	0	0	0	5	0	59
11:15 AM	0	15	2	0	4	17	0	0	0	0	0	0	0	0	4	0	42
11:30 AM	0	25	0	0	3	26	0	0	0	0	0	0	3	0	1	0	58
11:45 AM	0	25	1	0	3	19	0	1	0	0	0	0	0	0	5	0	54
12:00 PM	0	25	2	0	4	29	0	0	0	0	0	0	2	0	2	0	64
12:15 PM	0	20	1	0	5	26	0	0	0	0	0	0	1	0	4	0	57
12:30 PM	0	18	5	0	1	28	0	0	0	0	0	0	4	0	1	0	57
12:45 PM	0	12	1	0	1	21	0	0	0	0	0	0	1	0	1	0	37
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	166	13	0	22	192	0	1	0	0	0	0	11	0	23	0	428
APPROACH %'s :	0.00%	92.74%	7.26%	0.00%	10.23%	89.30%	0.00%	0.47%					32.35%	0.00%	67.65%	0.00%	
PEAK HR :	11:30 AM - 12:30 PM																TOTAL
PEAK HR VOL :	0	95	4	0	15	100	0	1	0	0	0	0	6	0	12	0	233
PEAK HR FACTOR :	0.000	0.950	0.500	0.000	0.750	0.862	0.000	0.250	0.000	0.000	0.000	0.000	0.500	0.000	0.600	0.000	0.910
		0.917				0.879								0.900			

National Data & Surveying Services

Intersection Turning Movement Count

Location: Reservoir Ave & Rocky Hill Terrace
City: Trumbull
Control: 1-Way Stop(WB)

Project ID: 25-410097-002
Date: 7/19/2025

Data - Cars

NS/EW Streets:	Reservoir Ave				Reservoir Ave				Rocky Hill Terrace				Rocky Hill Terrace				
NOON	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
11:00 AM	0	26	1	0	1	24	0	0	0	0	0	0	0	0	5	0	57
11:15 AM	0	14	2	0	4	17	0	0	0	0	0	0	0	0	4	0	41
11:30 AM	0	23	0	0	3	25	0	0	0	0	0	0	3	0	1	0	55
11:45 AM	0	24	1	0	3	19	0	1	0	0	0	0	0	0	5	0	53
12:00 PM	0	24	2	0	4	27	0	0	0	0	0	0	2	0	2	0	61
12:15 PM	0	19	1	0	5	25	0	0	0	0	0	0	1	0	4	0	55
12:30 PM	0	17	5	0	1	25	0	0	0	0	0	0	4	0	1	0	53
12:45 PM	0	12	1	0	1	21	0	0	0	0	0	0	1	0	1	0	37
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	159	13	0	22	183	0	1	0	0	0	0	11	0	23	0	412
APPROACH %'s :	0.00%	92.44%	7.56%	0.00%	10.68%	88.83%	0.00%	0.49%					32.35%	0.00%	67.65%	0.00%	
PEAK HR :	11:30 AM - 12:30 PM																TOTAL
PEAK HR VOL :	0	90	4	0	15	96	0	1	0	0	0	0	6	0	12	0	224
PEAK HR FACTOR :	0.000	0.938	0.500	0.000	0.750	0.889	0.000	0.250	0.000	0.000	0.000	0.000	0.500	0.000	0.600	0.000	0.918
		0.904				0.903								0.900			

National Data & Surveying Services

Intersection Turning Movement Count

Location: Reservoir Ave & Rocky Hill Terrace
City: Trumbull
Control: 1-Way Stop(WB)

Project ID: 25-410097-002
Date: 7/19/2025

Data - HT

NS/EW Streets:	Reservoir Ave				Reservoir Ave				Rocky Hill Terrace				Rocky Hill Terrace				
NOON	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
11:00 AM	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2
11:15 AM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
11:30 AM	0	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	3
11:45 AM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
12:00 PM	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	3
12:15 PM	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2
12:30 PM	0	1	0	0	0	3	0	0	0	0	0	0	0	0	0	0	4
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	7	0	0	0	9	0	0	0	0	0	0	0	0	0	0	16
APPROACH %'s :	0.00%	100.00%	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%									
PEAK HR :	11:30 AM - 12:30 PM																TOTAL
PEAK HR VOL :	0	5	0	0	0	4	0	0	0	0	0	0	0	0	0	0	9
PEAK HR FACTOR :	0.000	0.625	0.000	0.000	0.000	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.750
		0.625				0.500											

National Data & Surveying Services

Intersection Turning Movement Count

Location: Reservoir Ave & Rocky Hill Terrace
City: Trumbull
Control: 1-Way Stop(WB)

Project ID: 25-410097-002
Date: 7/19/2025

Data - Bikes

NS/EW Streets:	Reservoir Ave				Reservoir Ave				Rocky Hill Terrace				Rocky Hill Terrace				
NOON	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
APPROACH %'s :																	
PEAK HR :	11:30 AM - 12:30 PM																TOTAL
PEAK HR VOL :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEAK HR FACTOR :	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	

National Data & Surveying Services

Intersection Turning Movement Count

Location: Reservoir Ave & Rocky Hill Terrace
City: Trumbull

Project ID: 25-410097-002
Date: 7/19/2025

Data - Pedestrians (Crosswalks)

NS/EW Streets:	Reservoir Ave		Reservoir Ave		Rocky Hill Terrace		Rocky Hill Terrace		
NOON	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG		
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
11:00 AM	0	0	0	0	0	0	0	0	0
11:15 AM	0	0	0	0	0	0	0	0	0
11:30 AM	0	0	0	0	0	0	0	0	0
11:45 AM	0	0	0	0	0	0	0	0	0
12:00 PM	0	0	0	0	0	0	0	0	0
12:15 PM	0	0	0	0	0	0	0	0	0
12:30 PM	0	0	0	0	0	0	0	0	0
12:45 PM	0	0	0	0	0	0	0	0	0
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
TOTAL VOLUMES :	0	0	0	0	0	0	0	0	0
APPROACH %'s :									
PEAK HR :	**11:30 AM - 12:30 PM**								TOTAL
PEAK HR VOL :	0	0	0	0	0	0	0	0	0
PEAK HR FACTOR :									

Prepared by National Data & Surveying Services

Reservoir Ave & Rocky Hill Terrace

Peak Hour Turning Movement Count

ID: 25-410097-002
City: Trumbull

Day: Saturday
Date: 7/19/2025

PEAK HOURS	COUNT PERIODS
NONE	NONE
11:30 AM - 12:30 PM	11:00 AM - 01:00 PM
NONE	NONE

SOUTHBOUND (Reservoir Ave)

AM	0	0	0	0	0	AM
NOON	0	100	15	1	108	NOON
PM	0	0	0	0	0	PM

0 1 0 0

EASTBOUND (Rocky Hill Terrace)

AM	NOON	PM	
0	0	0	
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
AM	NOON	PM	

WESTBOUND (Rocky Hill Terrace)

PM	NOON	AM	
0	12	0	0
0	0	0	1
0	6	0	0
0	0	0	0
0	19	0	
PM	NOON	AM	

CONTROL

1-Way Stop(WB)

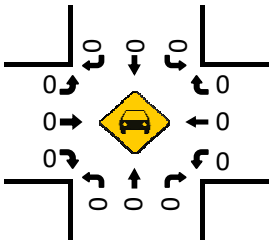
TEV	0 AM	233 NOON	0 PM
PHF		0.91	

0 0 1 0

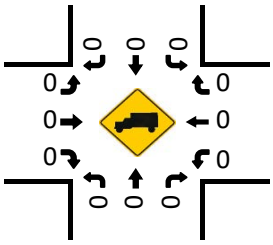
NORTHBOUND (Reservoir Ave)

PM	0	0	0	0	0	PM
NOON	106	0	0	95	4	NOON
AM	0	0	0	0	0	AM

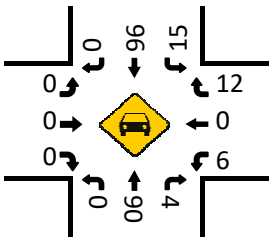
Cars (AM)



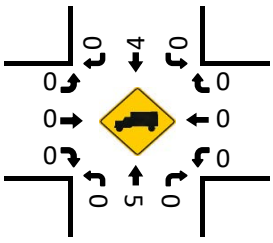
HT (AM)



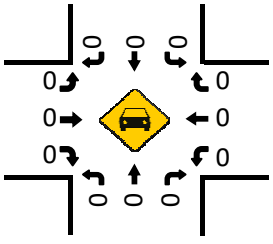
Cars (NOON)



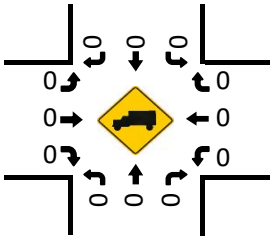
HT (NOON)



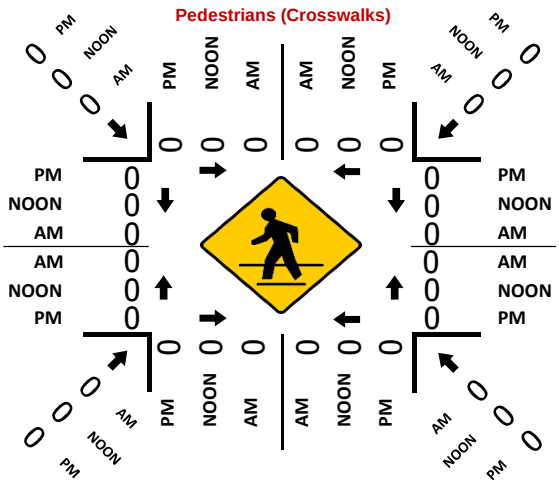
Cars (PM)



HT (PM)



Pedestrians (Crosswalks)



National Data & Surveying Services

Intersection Turning Movement Count

Location: Reservoir Ave/1980 Reservoir Ave & Old Town Rd/1077/1081 Old Town Rd
City: Trumbull
Control: 4-Way Stop

Project ID: 25-410097-003
Date: 7/19/2025

Data - Total

NS/EW Streets:	Reservoir Ave/1980 Reservoir Ave						Reservoir Ave/1980 Reservoir Ave						Old Town Rd/1077/1081 Old Town Rd						Old Town Rd/1077/1081 Old Town Rd																		
NOON	NORTHBOUND						SOUTHBOUND						EASTBOUND						WESTBOUND						SOUTHBOUND2						EASTBOUND2						
	0 NL	1 NT	0 NR	0 NU	0 NL2	0 NT2	0 SL	1 ST	0 SR	0 SU	0 SR2	0 SU2	0 EL	1 ET	0 ER	0 EU	0 EL2	0 EU2	0 WL	1 WT	0 WR	0 WU	0 WT2	0 WR2	0 S2R	0 S2U	0 S2L2	0 S2T2	0 S2R2	0 S2U2	0 E2L	0 E2U	0 E2L2	0 E2T2	0 E2R2	0 E2U2	TOTAL
11:00 AM	10	10	1	0	0	0	6	13	6	0	0	0	7	10	3	0	0	0	2	12	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	89
11:15 AM	12	10	1	0	0	0	4	11	4	0	0	0	4	21	5	0	0	0	1	17	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	96
11:30 AM	10	11	2	0	0	0	7	16	4	0	0	0	5	16	4	0	0	0	1	15	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	98
11:45 AM	14	14	3	0	0	0	7	11	3	0	0	0	4	21	13	0	0	0	2	20	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120
12:00 PM	10	11	1	0	0	0	10	13	7	0	0	0	7	10	6	0	0	0	0	18	7	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	102
12:15 PM	18	10	1	0	0	0	6	18	6	0	0	0	3	15	10	0	0	0	2	25	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	123
12:30 PM	9	14	1	0	0	0	12	11	7	0	0	1	2	23	10	0	0	0	0	19	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	118
12:45 PM	12	8	2	0	1	0	6	11	7	0	0	0	3	29	6	1	0	0	3	18	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	111
	NL	NT	NR	NU	NL2	NT2	SL	ST	SR	SU	SR2	SU2	EL	ET	ER	EU	EL2	EU2	WL	WT	WR	WU	WT2	WR2	S2R	S2U	S2L2	S2T2	S2R2	S2U2	E2L	E2U	E2L2	E2T2	E2R2	E2U2	TOTAL
TOTAL VOLUMES :	95	88	12	0	1	0	58	104	44	0	0	1	35	145	57	1	0	0	11	144	59	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	857
APPROACH %'s :	48.47%	44.90%	6.12%	0.00%	0.51%	0.00%	28.02%	50.24%	21.26%	0.00%	0.00%	0.48%	14.71%	60.92%	23.95%	0.42%	0.00%	0.00%	5.14%	67.29%	27.57%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%	0.00%	
PEAK HR :	11:45 AM - 12:45 PM																																				TOTAL
PEAK HR VOL :	51	49	6	0	0	0	35	53	23	0	0	1	16	69	39	0	0	0	4	82	33	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	463
PEAK HR FACTOR :	0.708	0.875	0.500	0.000	0.000	0.000	0.729	0.736	0.821	0.000	0.000	0.250	0.571	0.750	0.750	0.000	0.000	0.000	0.500	0.820	0.917	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.000	0.000	0.000	0.250	0.000	0.941
	0.855						0.903						0.816						0.826						0.250												

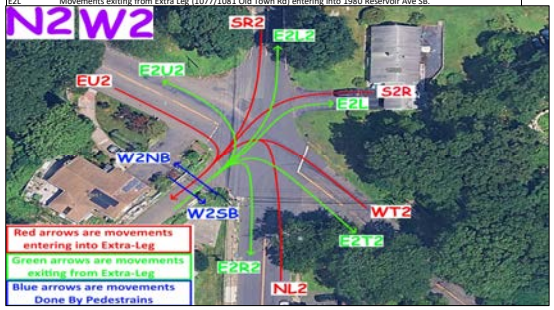
Explanation for extra leg movements (W2)

Movements entering the extra leg

SR2	Movements coming from SB on Reservoir Ave entering into the Extra Leg (1077/1081 Old Town Rd)
NL2	Movements coming from NB on Reservoir Ave entering into the Extra Leg (1077/1081 Old Town Rd)
EU2	Movements coming from EB on Old Town Rd entering into the Extra Leg (1077/1081 Old Town Rd)
WT2	Movements coming from WB on Old Town Rd entering into the Extra Leg (1077/1081 Old Town Rd)
S2R	Movements coming from SB on 1980 Reservoir Ave into the Extra Leg (1077/1081 Old Town Rd)

Movements exiting the extra leg

E2L2	Movements exiting from Extra Leg (1077/1081 Old Town Rd) entering into Reservoir Ave SB.
E2R2	Movements exiting from Extra Leg (1077/1081 Old Town Rd) entering into Reservoir Ave NB.
E2U2	Movements exiting from Extra Leg (1077/1081 Old Town Rd) entering into Old Town Rd EB.
E2T2	Movements exiting from Extra Leg (1077/1081 Old Town Rd) entering into Old Town Rd WB.
E2L	Movements exiting from Extra Leg (1077/1081 Old Town Rd) entering into 1980 Reservoir Ave SB.



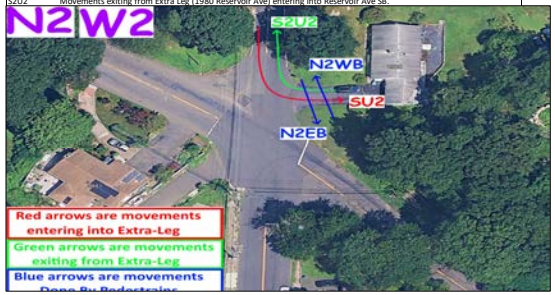
Explanation for extra leg movements (N2)

Movements entering the extra leg

SU2	Movements coming from SB on Reservoir Ave entering into the Extra Leg (1980 Reservoir Ave)

Movements exiting the extra leg

S2U2	Movements exiting from Extra Leg (1980 Reservoir Ave) entering into Reservoir Ave SB.



National Data & Surveying Services

Intersection Turning Movement Count

Location: Reservoir Ave/1980 Reservoir Ave & Old Town Rd/1077/1081 Old Town Rd
City: Trumbull
Control: 4-Way Stop

Project ID: 25-410097-003
Date: 7/19/2025

Data - Cars

NS/EW Streets:	Reservoir Ave/1980 Reservoir Ave						Reservoir Ave/1980 Reservoir Ave						Old Town Rd/1077/1081 Old Town Rd						Old Town Rd/1077/1081 Old Town Rd																		
NOON	NORTHBOUND						SOUTHBOUND						EASTBOUND						WESTBOUND						SOUTHBOUND2						EASTBOUND2						
	0 NL	1 NT	0 NR	0 NU	0 NL2	0 NT2	0 SL	1 ST	0 SR	0 SU	0 SR2	0 SU2	0 EL	1 ET	0 ER	0 EU	0 EL2	0 EU2	0 WL	1 WT	0 WR	0 WU	0 WT2	0 WR2	0 S2R	0 S2U	0 S2L2	0 S2T2	0 S2R2	0 S2U2	0 E2L	0 E2U	0 E2L2	0 E2T2	0 E2R2	0 E2U2	TOTAL
11:00 AM	10	10	1	0	0	0	5	12	6	0	0	0	7	10	3	0	0	0	2	12	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	87
11:15 AM	12	9	1	0	0	0	4	11	4	0	0	0	4	20	5	0	0	0	1	17	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	94
11:30 AM	10	9	2	0	0	0	7	15	4	0	0	0	5	15	4	0	0	0	1	15	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	93
11:45 AM	13	14	3	0	0	0	7	11	3	0	0	0	4	21	13	0	0	0	2	20	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	118
12:00 PM	10	11	1	0	0	0	10	11	7	0	0	0	7	9	5	0	0	0	0	18	7	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	98
12:15 PM	18	8	1	0	0	0	6	18	5	0	0	0	3	15	10	0	0	0	2	25	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120
12:30 PM	9	13	1	0	0	0	10	11	7	0	0	1	2	23	10	0	0	0	0	19	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	115
12:45 PM	12	8	2	0	1	0	6	10	7	0	0	0	3	28	5	1	0	0	3	18	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	108
	NL	NT	NR	NU	NL2	NT2	SL	ST	SR	SU	SR2	SU2	EL	ET	ER	EU	EL2	EU2	WL	WT	WR	WU	WT2	WR2	S2R	S2U	S2L2	S2T2	S2R2	S2U2	E2L	E2U	E2L2	E2T2	E2R2	E2U2	TOTAL
TOTAL VOLUMES :	94	82	12	0	1	0	55	99	43	0	0	1	35	141	55	1	0	0	11	144	57	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	833
APPROACH %'s :	49.74%	43.39%	6.35%	0.00%	0.53%	0.00%	27.78%	50.00%	21.72%	0.00%	0.00%	0.51%	15.09%	60.78%	23.71%	0.43%	0.00%	0.00%	5.19%	67.92%	26.89%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%	0.00%	
PEAK HR :			11:45 AM - 12:45 PM																																		TOTAL
PEAK HR VOL :	50	46	6	0	0	0	33	51	22	0	0	1	16	68	38	0	0	0	4	82	32	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	451
PEAK HR FACTOR :	0.694	0.821	0.500	0.000	0.000	0.000	0.825	0.708	0.786	0.000	0.000	0.250	0.571	0.739	0.731	0.000	0.000	0.000	0.500	0.820	0.889	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.000	0.000	0.000	0.250	0.000	0.940
	0.850						0.922						0.803						0.819						0.250												

National Data & Surveying Services

Intersection Turning Movement Count

Location: Reservoir Ave/1980 Reservoir Ave & Old Town Rd/1077/1081 Old Town Rd
City: Trumbull
Control: 4-Way Stop

Project ID: 25-410097-003
Date: 7/19/2025

Data - HT

NS/EW Streets:	Reservoir Ave/1980 Reservoir Ave						Reservoir Ave/1980 Reservoir Ave						Old Town Rd/1077/1081 Old Town Rd						Old Town Rd/1077/1081 Old Town Rd																		
NOON	NORTHBOUND						SOUTHBOUND						EASTBOUND						WESTBOUND						SOUTHBOUND2						EASTBOUND2						
	0 NL	1 NT	0 NR	0 NU	0 NL2	0 NT2	0 SL	1 ST	0 SR	0 SU	0 SR2	0 SU2	0 EL	1 ET	0 ER	0 EU	0 EL2	0 EU2	0 WL	1 WT	0 WR	0 WU	0 WT2	0 WR2	0 S2R	0 S2U	0 S2L2	0 S2T2	0 S2R2	0 S2U2	0 E2L	0 E2U	0 E2L2	0 E2T2	0 E2R2	0 E2U2	TOTAL
11:00 AM	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
11:15 AM	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
11:30 AM	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
11:45 AM	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
12:00 PM	0	0	0	0	0	0	0	2	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
12:15 PM	0	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
12:30 PM	0	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
12:45 PM	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
	NL	NT	NR	NU	NL2	NT2	SL	ST	SR	SU	SR2	SU2	EL	ET	ER	EU	EL2	EU2	WL	WT	WR	WU	WT2	WR2	S2R	S2U	S2L2	S2T2	S2R2	S2U2	E2L	E2U	E2L2	E2T2	E2R2	E2U2	TOTAL
TOTAL VOLUMES :	1	6	0	0	0	0	3	5	1	0	0	0	0	4	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
APPROACH %'s :	14.29%	85.71%	0.00%	0.00%	0.00%	0.00%	33.33%	55.56%	11.11%	0.00%	0.00%	0.00%	0.00%	66.67%	33.33%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%													
PEAK HR :	**11:45 AM - 12:45 PM**																																				TOTAL
PEAK HR VOL :	1	3	0	0	0	0	2	2	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
PEAK HR FACTOR :	0.250	0.375	0.000	0.000	0.000	0.000	0.250	0.250	0.250	0.000	0.000	0.000	0.000	0.250	0.250	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.750
	0.500						0.625						0.250						0.250																		

National Data & Surveying Services

Intersection Turning Movement Count

Location: Reservoir Ave/1980 Reservoir Ave & Old Town Rd/1077/1081 Old Town Rd
City: Trumbull
Control: 4-Way Stop

Project ID: 25-410097-003
Date: 7/19/2025

Data - Bikes

NS/EW Streets:	Reservoir Ave/1980 Reservoir Ave						Reservoir Ave/1980 Reservoir Ave						Old Town Rd/1077/1081 Old Town Rd						Old Town Rd/1077/1081 Old Town Rd																		
NOON	NORTHBOUND						SOUTHBOUND						EASTBOUND						WESTBOUND						SOUTHBOUND2						EASTBOUND2						
	0 NL	1 NT	0 NR	0 NU	0 NL2	0 NT2	0 SL	1 ST	0 SR	0 SU	0 SR2	0 SU2	0 EL	1 ET	0 ER	0 EU	0 EL2	0 EU2	0 WL	1 WT	0 WR	0 WU	0 WT2	0 WR2	0 S2R	0 S2U	0 S2L2	0 S2T2	0 S2R2	0 S2U2	0 E2L	0 E2U	0 E2L2	0 E2T2	0 E2R2	0 E2U2	
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NL	NT	NR	NU	NL2	NT2	SL	ST	SR	SU	SR2	SU2	EL	ET	ER	EU	EL2	EU2	WL	WT	WR	WU	WT2	WR2	S2R	S2U	S2L2	S2T2	S2R2	S2U2	E2L	E2U	E2L2	E2T2	E2R2	E2U2	TOTAL
TOTAL VOLUMES :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
APPROACH %'s :																																					
PEAK HR :	11:45 AM - 12:45 PM																																				TOTAL
PEAK HR VOL :	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEAK HR FACTOR :	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	

National Data & Surveying Services

Intersection Turning Movement Count

Location: Reservoir Ave/1980 Reservoir Ave & Old Town Rd/1077/1081 Old Town Rd
City: Trumbull

Project ID: 25-410097-003
Date: 7/19/2025

Data - Pedestrians (Crosswalks)

NS/EW Streets:	Reservoir Ave/1980 Reservoir Ave		Reservoir Ave/1980 Reservoir Ave		Old Town Rd/1077/1081 Old Town Rd		Old Town Rd/1077/1081 Old Town Rd						
NOON	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG		NORTH LEG 2		WEST LEG 2		
	EB	WB	EB	WB	NB	SB	NB	SB	EB	WB	NB	SB	TOTAL
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	1	1
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	1	1
12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
12:30 PM	0	0	0	0	0	0	0	1	0	0	0	0	1
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	EB	WB	EB	WB	NB	SB	NB	SB	EB	WB	NB	SB	TOTAL
TOTAL VOLUMES :	0	0	0	0	0	0	0	1	0	0	0	2	3
APPROACH %'s :							0.00%	100.00%			0.00%	100.00%	
PEAK HR :	11:45 AM - 12:45 PM												TOTAL
PEAK HR VOL :	0	0	0	0	0	0	0	1	0	0	0	1	2
PEAK HR FACTOR :								0.250				0.250	0.500
							0.250				0.250		

Prepared by National Data & Surveying Services

Reservoir Ave/1980 Reservoir Ave & Old Town Rd/1077/1081 Old Town Rd

Peak Hour Turning Movement Count

ID: 25-410097-003
City: Trumbull

Day: Saturday
Date: 7/19/2025

PEAK HOURS	COUNT PERIODS
NONE	NONE
11:45 AM - 12:45 PM	11:00 AM - 01:00 PM
NONE	NONE

CONTROL: 4-Way Stop

	AM	NOON	PM
TEV	0	460	0
PHF		0.94	

SOUTHBOUND — Reservoir Ave/1980 Reservoir Ave

	Left	Thru	Thru	Right	Total	
AM	0	0	0	0	0	AM
NOON	23	53	35	0	98	NOON
PM	0	0	0	0	0	PM

EASTBOUND — Old Town Rd/1077/1081 Old Town Rd

AM	NOON	PM	
0	156	0	
0	0	0	0
0	16	0	0
0	69	0	1
0	39	0	0

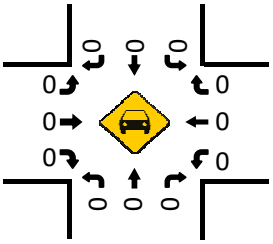
WESTBOUND — Old Town Rd/1077/1081 Old Town Rd

PM	NOON	AM	
0	33	0	0
0	82	0	1
0	4	0	0
0	0	0	0
0	110	0	

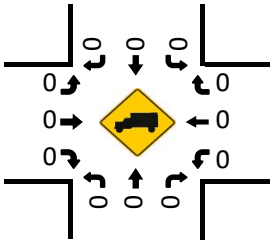
NORTHBOUND — Reservoir Ave/1980 Reservoir Ave

	Left	Thru	Thru	Right	Total	
PM	0	0	0	0	0	PM
NOON	96	0	51	49	6	NOON
AM	0	0	0	0	0	AM

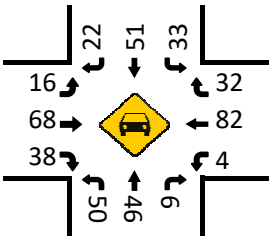
Cars (AM)



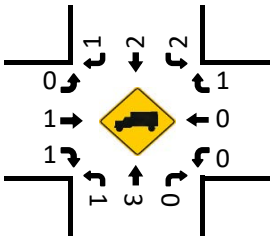
HT (AM)



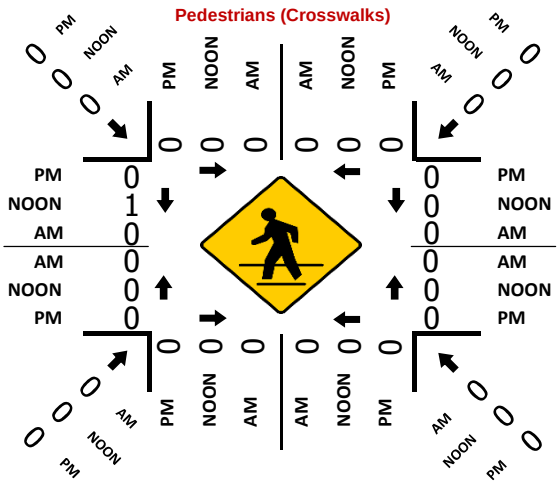
Cars (NOON)



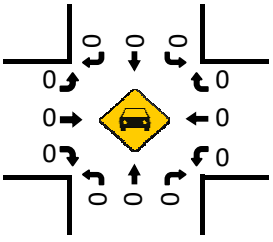
HT (NOON)



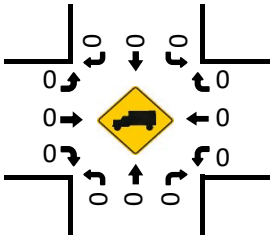
Pedestrians (Crosswalks)



Cars (PM)



HT (PM)



Prepared by National Data & Surveying Services

SPEED

Reservoir Ave S/O Rocky Hill Terrace

Day: Saturday
Date: 7/19/2025

City: Trumbull
Project #: CT25_410098_001

HOURLY BREAKDOWN

Time	NORTHBOUND 5 15	15 20	20 25	25 30	30 35	35 40	40 45	45 50	50 55	55 60	60 65	65 70	70 99	Total	SOUTHBOUND 5 15	15 20	20 25	25 30	30 35	35 40	40 45	45 50	50 55	55 60	60 65	65 70	70 99	Total	TOTALS 5 15	15 20	20 25	25 30	30 35	35 40	40 45	45 50	50 55	55 60	60 65	65 70	70 99	Total
0:00	0	2	0	5	4	1	0	0	0	0	0	0	0	12	0	0	2	3	4	2	1	0	0	0	0	0	0	12	0	2	2	8	8	3	1	0	0	0	0	0	0	24
1:00	0	1	3	2	1	0	0	0	0	0	0	0	0	7	0	1	0	2	1	1	1	0	0	0	0	0	0	4	0	2	3	4	2	1	0	0	0	0	0	0	0	11
2:00	0	0	0	2	3	0	1	0	0	0	0	0	0	6	1	0	0	2	5	0	1	0	0	0	0	0	0	9	1	0	0	4	8	0	2	0	0	0	0	0	0	15
3:00	0	0	0	3	2	1	0	0	0	0	0	0	0	6	0	1	0	1	1	1	0	0	0	0	0	0	0	4	0	1	0	4	3	2	0	0	0	0	0	0	0	10
4:00	0	1	0	2	1	1	0	0	0	0	0	0	0	5	0	2	0	0	0	0	1	1	0	0	0	0	0	4	0	3	0	2	1	1	1	1	0	0	0	0	0	9
5:00	0	0	0	5	4	3	0	0	0	0	0	0	0	12	1	0	1	1	5	1	0	0	0	0	0	0	0	9	1	0	1	6	9	4	0	0	0	0	0	0	0	21
6:00	0	1	2	18	16	5	0	0	0	0	0	0	0	42	0	1	3	0	5	7	0	0	0	0	0	0	0	16	0	2	5	18	21	12	0	0	0	0	0	0	0	58
7:00	0	3	2	22	36	10	4	0	0	0	0	0	0	77	0	2	1	6	12	9	6	1	0	0	0	0	0	37	0	5	3	28	48	19	10	1	0	0	0	0	0	114
8:00	0	0	4	26	34	18	2	0	0	0	0	0	0	84	0	8	3	13	23	19	5	0	0	0	0	0	0	71	0	8	7	39	57	37	7	0	0	0	0	0	0	155
9:00	0	4	2	29	30	11	2	0	0	0	0	0	0	78	1	1	1	14	14	34	11	3	1	0	0	0	0	66	1	5	3	43	64	22	5	1	0	0	0	0	0	144
10:00	0	6	4	32	32	9	0	1	0	0	0	0	0	84	0	5	8	21	40	24	2	0	0	0	0	0	0	100	0	11	12	53	72	33	2	1	0	0	0	0	0	184
11:00	2	5	10	33	36	10	0	0	0	0	0	0	0	96	1	1	6	19	37	19	6	1	0	0	0	0	0	90	3	6	16	52	73	29	6	1	0	0	0	0	0	186
12:00	0	9	8	32	26	9	2	0	0	0	0	0	0	86	0	4	7	23	45	25	6	0	0	0	0	0	0	110	0	13	15	55	71	34	8	0	0	0	0	0	0	196
13:00	2	7	2	37	38	9	0	0	0	0	0	0	0	95	1	4	3	18	46	17	0	0	0	0	0	0	0	89	3	11	5	55	84	26	0	0	0	0	0	0	0	184
14:00	1	8	3	35	37	9	2	0	0	0	0	0	0	95	0	5	5	22	48	13	2	0	0	0	0	0	0	95	1	13	8	57	85	22	4	0	0	0	0	0	0	190
15:00	4	10	9	40	24	4	1	0	0	0	0	0	0	92	1	6	5	21	32	28	3	0	0	0	0	0	0	96	5	16	14	61	56	32	4	0	0	0	0	0	0	188
16:00	1	10	8	42	30	5	0	0	0	0	0	0	0	96	0	11	3	21	34	10	5	1	0	0	0	0	0	85	1	21	11	63	64	15	5	1	0	0	0	0	0	181
17:00	1	5	6	24	21	9	0	0	0	0	0	0	0	70	0	7	2	17	51	13	1	0	0	0	0	0	0	93	1	12	8	41	72	22	3	0	0	0	0	0	0	163
18:00	4	10	16	19	21	14	3	0	0	0	0	0	0	87	0	5	6	14	28	21	5	3	0	0	0	0	0	82	4	15	22	33	49	35	8	3	0	0	0	0	0	169
19:00	4	4	1	21	13	4	1	0	0	0	0	0	0	48	1	6	5	14	28	18	11	1	0	0	0	0	0	84	5	10	6	35	41	22	12	1	0	0	0	0	0	132
20:00	0	5	2	19	15	5	1	0	0	0	0	0	0	47	1	2	0	5	15	15	5	2	0	0	0	0	0	45	1	7	2	24	30	20	6	2	0	0	0	0	0	92
21:00	5	1	3	18	9	6	3	1	0	0	0	0	0	46	4	7	2	6	14	14	6	0	0	0	0	0	0	53	9	8	5	24	23	20	9	1	0	0	0	0	0	99
22:00	1	3	5	13	12	6	1	0	0	0	0	0	0	41	0	1	2	4	15	5	5	1	0	0	0	0	0	33	1	4	7	17	27	11	6	1	0	0	0	0	0	74
23:00	2	1	0	5	7	2	2	1	0	0	0	0	0	20	3	2	2	8	9	11	3	1	1	0	0	0	0	40	5	3	2	13	16	13	5	2	1	0	0	0	0	60
Totals	27	96	90	484	456	151	25	3	0	0	0	0	0	1,332	15	82	67	254	532	284	79	13	1	0	0	0	0	1,327	42	178	157	738	988	435	104	16	1	0	0	0	0	2,659
% of Totals	2%	7%	7%	36%	34%	11%	2%	0%						100%	1%	6%	5%	19%	40%	21%	6%	1%	0%					100%	2%	7%	6%	28%	37%	16%	4%	1%	0%					100%

STATISTICS

00:00 - 12:00	2	23	27	179	199	69	9	1	0	0	0	0	0	509	4	22	25	81	167	94	25	4	0	0	0	0	0	422	6	45	52	260	366	163	34	5	0	0	0	0	0	931
%	0%	2%	2%	13%	15%	5%	1%	0%	0%	0%	0%	0%	0%	38%	0%	2%	2%	6%	13%	7%	2%	0%	0%	0%	0%	0%	0%	32%	0%	3%	4%	20%	27%	12%	3%	0%	0%	0%	0%	0%	0%	70%
Peak Hour	10:45	11:45	11:30	11:30	6:45	7:45	7:00	9:15	0:00	0:00	0:00	0:00	0:00	11:30	1:45	7:45	10:00	9:15	10:15	11:45	7:00	3:15	0:00	0:00	0:00	0:00	0:00	11:45	10:45	11:45	11:30	11:30	10:15	7:45	7:00	3:15	0:00	0:00	0:00	0:00	0:00	11:30
Peak Volume	2	9	12	41	36	19	4	1	0	0	0	0	0	102	1	8	8	23	50	26	6	1	0	0	0	0	0	108	3	12	20	64	84	37	10	1	0	0	0	0	0	207
12:00 - 24:00	25	73	63	305	257	82	16	2	0	0	0	0	0	823	11	60	42	173	365	190	54	9	1	0	0	0	0	905	36	133	105	478	622	272	70	11	1	0	0	0	0	1728
%	2%	5%	5%	23%	19%	6%	1%	0%	0%	0%	0%	0%	0%	62%	1%	5%	3%	13%	27%	14%	4%	1%	0%	0%	0%	0%	0%	68%	3%	10%	8%	36%	47%	20%	5%	1%	0%	0%	0%	0%	0%	130%
Peak Hour	15:15	14:30	18:00	15:45	13:15	17:45	18:00	20:45	12:00	12:00	12:00	12:00	12:00	14:30	21:00	15:30	12:00	14:45	15:00	15:00	18:30	18:15	22:15	12:00	12:00	12:00	12:00	12:00	21:00	15:30	18:00	14:45	13:15	12:15	18:30	18:15	22:15	12:00	12:00	12:00	12:00	14:45
Peak Volume	5	12	16	44	40	15	3	1	0	0	0	0	0	103	4	13	7	29	51	28	12	4	1	0	0	0	0	110	9	21	22	71	89	35	15	4	1	0	0	0	0	209
07:00 - 09:00	0	3	6	48	70	28	6	0	0	0	0	0	0	161	0	10	4	19	35	28	11	1	0	0	0	0	0	108	0	13	10	67	105	56	17	1	0	0	0	0	0	269
%	0%	0%	0%	4%	5%	2%	0%	0%	0%	0%	0%	0%	0%	12%	0%	1%	0%	1%	3%	2%	1%	0%	0%	0%	0%	0%	0%	8%	0%	1%	1%	5%	8%	4%	1%	0%	0%	0%	0%	0%	0%	20%
Peak Hour	7:00	7:00	7:45	7:45	7:00	7:45	7:00	7:00	7:00	7:00	7:00	7:00	7:00	7:15	7:00	7:45	7:30	8:00	8:00	8:00	7:00	7:00	7:00	7:00	7:00	7:00	7:00	8:00	7:00	7:45	8:00	8:00	8:00	7:45	7:00	7:00	7:00	7:00	7:00	7:00	7:00	8:00
Peak Volume	0	3	4	26	36	19	4	0	0	0	0	0	0	86	0	8	3	13	23	19	6	1	0	0	0	0	0	71	0	8	7	39	57	37	10	1	0	0	0	0	0	155
16:00 - 18:00	2	15	14	66	55	14	0	0	0	0	0	0	0	166	0	18	5	38	85	23	8	1	0	0	0	0	0	178	2	33	19	104	140	37	8	1	0	0	0	0	0	344
%	0%	1%	1%	5%	4%	1%	0%	0%	0%	0%	0%	0%	0%	12%	0%	1%	0%	3%	6%	2%	1%	0%	0%	0%	0%	0%	0%	13%	0%	2%	1%	8%	11%	3%	1%	0%	0%	0%	0%	0%	0%	26%
Peak Hour	16:00	16:00	16:00	16:15	16:00	16:15	16:00	16:00	16:00	16:00	16:00	16:00	16:00	16:00	16:00	16:00	16:00	16:30	17:00	17:00	16:00	16:00	16:00	16:00	16:00	16:00	16:00	16:30	16:00	16:00	16:00	16:15	16:30	17:00	16:00	16:00	16:00	16:00	16:00	16:00	16:00	16:15
Peak Volume	1	10	8	44	30	9	0	0	0	0	0	0	0	96	0	11	3	27	51	13	5	1	0	0	0	0	0	101	1	21	11	67	77	22	5	1	0	0	0	0	0	193

Direction	Percentiles 15th	50th	Average	85th	95th	ADT
NORTHBOUND	25	30	30	35	38	1332
SOUTHBOUND	27	33	32	38	41	1327
TOTALS	26	31	31	37	40	2659

Direction	Pace 10mph Pace	# in Pace	% in Pace	Number of Vehicles >= 55 MPH	% of Vehicles >= 55 MPH
NORTHBOUND	27 - 36 mph	950	71%	0	0%
SOUTHBOUND	29 - 38 mph	874	66%	0	0%
TOTALS	27 - 36 mph	1785	67%	0	0%

15-MINUTE BREAKDOWN

0:00	0	0	0	2	1	1	0	0	0	0	0	0	0	4	0	0	0	0	1	0	1	0	0	0	0	0	0	2	0	0	0	2	2	1	1	0	0	0	0	0	0	6
0:15	0	0	0	1	3	0	0	0	0	0	0	0	0	4	0	0	0	1	2	0	2	0	0	0	0	0	0	5	0	0	0	1	3	3	2	0	0	0	0	0	0	9
0:30	0	1	0	2	0	0	0	0	0	0	0	0	0	3	0	0	1	1	2	0	0	0	0	0	0	0	0	4	0	1	1	3	2	0	0	0	0	0	0	0	0	7
0:45	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	1	0	0	1	0	0	0	0	0	0	0	0	2
1:00	0	0	1	0	1	0	0	0	0	0	0	0	0	2	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	1	1	1	0	0	0	0	0	0	0	0	3
1:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	1
1:30	1	0	0	1	0	0	0	0	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	1	0	1	1	0	0	0	0	0	0	0	0	3
1:45	0	0	2	1	0	0	0	0	0	0	0	0	0	3	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	1	2	1	0	0	0	0	0	0	0	0	0	4
2:00	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	1	0	0	0	0	0	0	2	0	0	0	0	2	0	1	0	0	0	0	0	0	3
2:15	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	3	0	0	0	0	0	0	0	4	0	0	0	0	1	3	0	1	0	0	0	0	0	5
2:30	0	0	0	1	1	0	0	0	0	0	0	0	0	2	1	0	0	0	1	1	0	0	0	0	0	0	0	3	1	0	0	0	2	2	0	0	0	0	0	0	0	5
2:45	0	0	0	1	1	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	2
3:00	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
3:15	0	0	0	2	1	1	0	0	0	0	0	0	0	4	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	2	2	1	0	0	0	0	0	0	0	5
3:30	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	0	0	0	0	0	0	0	2
3:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	2	0	1	0	0	0	1	0	0	0	0	0	0	0	2
4:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	1
4:15	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0	0	0	0	2
4:30	0	0	0	1	1	1	0	0	0	0	0	0	0	3	0	2	0	0	0	0	0	0	0	0	0	0	0	2	0	2	0	1	1	1	0	0	0	0	0	0	0	5
4:45	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
5:00	0	0	0	1	1	0	0	0	0	0	0	0	0	2	1	0	1	0	0	1	0	0	0	0	0	0	0	3	1	0	1	0	2	1	0	0	0	0	0	0	0	5
5:15	0	0	0	3	0	0	0	0	0	0	0	0	0	3	0	0	0	3	2	0	0	0	0	0	0	0	0	5	0	0	0	4	2	1	0	0	0	0	0	0	0	6
5:30	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	2	1	0	0	0	2	1	0	0	0	0	0	0	0	3
5:45	0	0	0	2	2	2	0	0	0	0	0	0	0	6	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	2	3	2	0	0	0	0	0	0	0	7
6:00	0	0	1	1	3	1	0	0	0	0	0	0	0	6	0	0	0	0	2	1	0	0	0	0	0	0	0	3	0	0	1	1	5	2	0	0	0	0	0	0	0	9
6:15	0	1	0	4	1	0	0	0	0	0	0	0	0	6	0	1	1	0	0	3	0	0	0	0	0	0	0	5	0	2	1	4	1	3	0	0	0	0	0	0	0	11
6:30	0	0	0	6	3	0	0	0	0	0	0	0	0	9	0	0	2	0	1	2	0	0	0	0	0	0	0	5	0	0	2	6	4	2	0	0	0	0	0	0	0	14
6:45	0	0	1	7	9	4	0	0	0	0	0	0	0	21	0	0	0	0	2	1	0	0	0	0	0	0	0	3	0	0	1	7	11	5	0	0	0	0	0	0	0	24
7:00	0	1	0	5	9	2	1	0	0	0	0	0	0	18	0	1	0	0	4	3	2	1	1	0	0	0	0	12	0	2	0	9	12	4	2	1	0	0	0	0	0	30
7:15	0	2	2	5	9	3	0	0	0	0	0	0	0	21	0	0	1	1	3	4	3	1	0	0	0	0	0	12	0	3	2	6	12	7	3	0	0	0	0	0	0	33
7:30	0	0	0	6	9	2	1	0	0	0	0	0	0	18	0	0	1	1	3	0	1	0	0	0	0	0	0	6	0	0	1	7	12	2	2	0	0	0	0	0	0	24
7:45	0	0	0	6	9	3	2	0	0	0	0	0	0	20	0	0	0	0	3	3	1	0	0	0	0	0	0	7	0	0	0	6	12	6	3	0	0	0	0	0	0	27
8:00	0	0	1	8	9	8	1	0	0	0	0	0	0	27	0	0	1	1	4	4	1	0	0	0	0	0	0	11	0	0	2	9	13	12	2	0	0	0	0	0	0	38
8:15	0	0	1	5	4	4	0	0	0	0	0	0	0	14	0	5	1	1	7	6	1	0	0	0	0	0	0	21	0	5	2	6	11	10	1	0	0	0	0	0	0	35
8:30	0	0	2	7	10	4	0	0	0	0	0	0	0	23	0	3	0	4	6	5	1	0	0	0	0	0	0	19	0	3	2	11	16	9	1	0	0	0	0	0	0	42
8:45	0	0	0	6	11	2	1	0	0	0	0	0	0	20	0	0	1	1	7	6	4	2	0	0	0	0	0	20	0	0	1	13	17	6	3	0	0	0	0	0	0	40
9:00	0	2	0	12	9	4	0	0	0	0	0	0	0	27	0	0	1	1	6	5	1	1	0	0	0	0	0	15	2	2	1	13	15	9	1	1	0	0	0	0	0	42
9:15	0	1	0	3	6	3	1	0	0	0	0	0	0	14	1	0	0	0	5	9	2	1	0	0	0	0	0	18	1	1	0	8	15	5	2	0	0	0	0	0	0	32
9:30	0	1	2	5	8	3	0	0	0	0	0	0	0	19	0	1	0	0	6	11	4	0	0	0	0	0	0	22	0	2	2	11	19	7	0	0	0	0	0	0	0	41
9:45	0	0	0	9	7	1	1	0	0	0	0	0	0	18	0	0	0	0	2	8	0	1	0	0	0	0	0	11	0	0	0	11	15	1	2	0	0	0	0	0	0	29
10:00	0	1	1	8	5	2	0	1	0	0	0	0	0	18	0	1	2	10	4	3	0	0	0	0	0	0	0	20	0	2	3	18	9	5

Prepared by National Data & Surveying Services

VOLUME

Reservoir Ave S/O Rocky Hill Terrace

Day: Saturday
Date: 7/19/2025

City: Trumbull
Project #: CT25_410098_001

DAILY TOTALS	NB	SB	EB	WB	Total
	1,332	1,327	0	0	2,659

15-Minutes Interval

TIME	NB	SB	EB	WB	TOTAL	TIME	NB	SB	EB	WB	TOTAL
0:00	4	2			6	12:00	28	29			57
0:15	4	5			9	12:15	22	28			50
0:30	3	4			7	12:30	23	32			55
0:45	1	1			2	12:45	13	21			34
1:00	2	1			3	13:00	26	21			47
1:15	0	1			1	13:15	22	19			41
1:30	2	1			3	13:30	11	24			35
1:45	3	1			4	13:45	36	25			61
2:00	1	2			3	14:00	24	23			47
2:15	1	4			5	14:15	16	20			36
2:30	2	3			5	14:30	23	23			46
2:45	2	0			2	14:45	32	29			61
3:00	1	0			1	15:00	22	24			46
3:15	4	1			5	15:15	26	28			54
3:30	1	1			2	15:30	21	27			48
3:45	0	2			2	15:45	23	17			40
4:00	0	1			1	16:00	21	27			48
4:15	1	1			2	16:15	30	21			51
4:30	3	2			5	16:30	23	22			45
4:45	1	0			1	16:45	22	15			37
5:00	2	3			5	17:00	21	39			60
5:15	3	3			6	17:15	12	25			37
5:30	1	2			3	17:30	14	15			29
5:45	6	1			7	17:45	23	14			37
6:00	6	3			9	18:00	23	16			39
6:15	6	5			11	18:15	23	18			41
6:30	9	5			14	18:30	23	22			45
6:45	21	3			24	18:45	18	26			44
7:00	18	12			30	19:00	7	34			41
7:15	21	12			33	19:15	13	16			29
7:30	18	6			24	19:30	12	16			28
7:45	20	7			27	19:45	16	18			34
8:00	27	11			38	20:00	16	13			29
8:15	14	21			35	20:15	16	16			32
8:30	23	19			42	20:30	7	8			15
8:45	20	20			40	20:45	8	8			16
9:00	27	15			42	21:00	13	18			31
9:15	14	18			32	21:15	17	12			29
9:30	19	22			41	21:30	8	11			19
9:45	18	11			29	21:45	8	12			20
10:00	18	20			38	22:00	10	6			16
10:15	20	26			46	22:15	10	10			20
10:30	22	31			53	22:30	9	11			20
10:45	24	23			47	22:45	12	6			18
11:00	27	26			53	23:00	10	18			28
11:15	17	16			33	23:15	5	9			14
11:30	26	29			55	23:30	4	6			10
11:45	26	19			45	23:45	1	7			8
TOTALS	509	422	0	0	931	TOTALS	823	905	0	0	1728
SPLIT %	55%	45%	0%	0%	35%	SPLIT %	48%	52%	0%	0%	65%

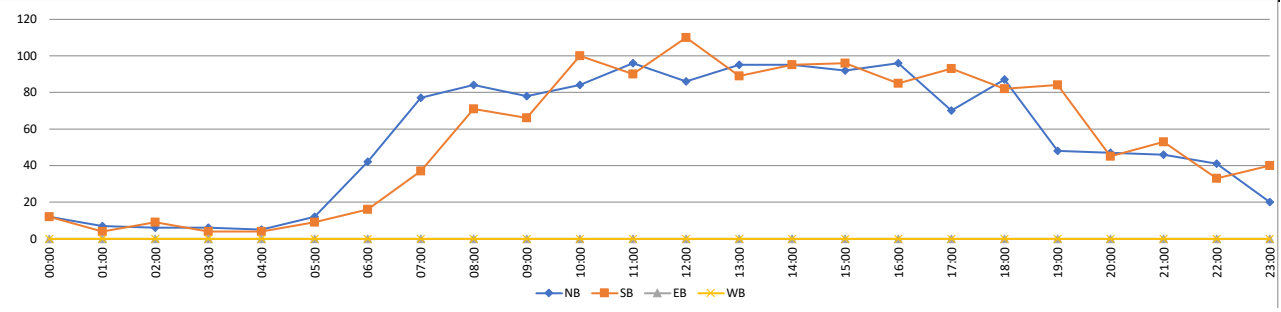
DAILY TOTALS

Hourly Intervals

TIME		NB	SB	EB	WB	TOTAL
00:00	01:00	12	12			24
01:00	02:00	7	4			11
02:00	03:00	6	9			15
03:00	04:00	6	4			10
04:00	05:00	5	4			9
05:00	06:00	12	9			21
06:00	07:00	42	16			58
07:00	08:00	77	37			114
08:00	09:00	84	71			155
09:00	10:00	78	66			144
10:00	11:00	84	100			184
11:00	12:00	96	90			186
12:00	13:00	86	110			196
13:00	14:00	95	89			184
14:00	15:00	95	95			190
15:00	16:00	92	96			188
16:00	17:00	96	85			181
17:00	18:00	70	93			163
18:00	19:00	87	82			169
19:00	20:00	48	84			132
20:00	21:00	47	45			92
21:00	22:00	46	53			99
22:00	23:00	41	33			74
23:00	00:00	20	40			60

STATISTICS

	NB	SB	EB	WB	TOTAL
Peak Period	00:00	to	12:00		
Volume	509	422			931
Peak Hour	11:00	10:15			10:15
Peak Volume	96	106			199
Peak Hour Factor	0.889	0.855			0.939
Peak Period	12:00	to	00:00		
Volume	823	905			1728
Peak Hour	14:30	12:00			14:45
Peak Volume	103	110			209
Peak Hour Factor	0.805	0.859			0.857
Peak Period	07:00	to	09:00		
Volume	161	108			269
Peak Hour	7:15	8:00			8:00
Peak Volume	86	71			155
Peak Hour Factor	0.796	0.845			0.923
Peak Period	16:00	to	18:00		
Volume	166	178			344
Peak Hour	16:00	16:30			16:15
Peak Volume	96	101			193
Peak Hour Factor	0.800	0.647			0.804



Prepared by National Data & Surveying Services

SPEED

Reservoir Ave S/O Rocky Hill Terrace

Day: Monday
Date: 7/21/2025
City: Trumbull
Project #: CT25_410098_001

HOURLY BREAKDOWN

Time	NORTHBOUND 5–15	15–20	20–25	25–30	30–35	35–40	40–45	45–50	50–55	55–60	60–65	65–70	70+	Total	SOUTHBOUND 5–15	15–20	20–25	25–30	30–35	35–40	40–45	45–50	50–55	55–60	60–65	65–70	70+	Total	TOTALS 5–15	15–20	20–25	25–30	30–35	35–40	40–45	45–50	50–55	55–60	60–65	65–70	70+	Total
0:00	1	1	3	4	2	4	2	0	0	0	0	0	0	17	1	1	0	2	1	3	3	0	0	0	0	0	0	11	2	2	3	6	3	7	5	0	0	0	0	0	0	28
1:00	1	0	0	3	0	0	1	0	0	0	0	0	0	5	0	1	0	2	1	1	0	0	0	0	0	0	0	5	1	1	0	5	2	1	1	0	0	0	0	0	0	10
2:00	0	2	0	1	1	1	0	1	0	0	0	0	0	6	0	0	1	4	1	0	0	0	0	0	0	0	0	6	0	2	1	5	2	1	0	1	0	0	0	0	0	12
3:00	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	2
4:00	1	2	2	6	4	0	0	0	0	0	0	0	0	15	0	2	1	1	0	1	0	0	0	0	0	0	0	5	1	4	3	7	4	1	0	0	0	0	0	0	0	20
5:00	0	0	2	13	5	9	0	1	0	0	0	0	0	30	2	2	2	3	7	1	2	0	0	0	0	0	0	19	2	2	4	16	12	10	2	1	0	0	0	0	0	49
6:00	3	1	6	17	25	13	3	0	0	0	0	0	0	68	1	4	5	4	16	9	3	1	0	0	0	0	0	43	4	5	11	21	41	22	6	1	0	0	0	0	0	111
7:00	3	1	4	30	55	26	7	4	1	0	0	0	0	131	2	5	2	14	25	20	12	0	0	0	0	0	0	80	5	6	6	44	80	46	19	4	1	0	0	0	0	211
8:00	2	5	7	52	58	24	3	1	0	0	0	0	0	152	0	10	3	23	57	25	6	1	0	0	0	0	0	125	2	15	10	75	115	49	9	2	0	0	0	0	0	277
9:00	2	2	6	46	41	17	6	0	0	0	0	0	0	120	0	3	6	18	49	28	8	1	0	0	0	0	0	113	2	5	12	64	90	45	14	1	0	0	0	0	0	233
10:00	3	3	9	32	35	14	3	0	2	0	0	0	0	101	0	2	10	24	29	11	4	1	0	0	0	0	0	81	3	5	19	56	64	25	7	1	2	0	0	0	0	182
11:00	0	3	10	31	31	20	3	2	0	0	0	0	0	100	1	1	18	40	28	10	1	0	1	0	0	0	0	100	1	4	28	71	59	30	4	2	1	0	0	0	0	200
12:00	0	0	9	53	43	22	4	0	0	0	0	0	0	131	0	3	11	49	36	13	4	0	0	0	0	0	0	116	0	3	20	102	79	35	8	0	0	0	0	0	0	247
13:00	2	1	15	57	47	14	2	1	0	0	0	0	0	139	2	4	22	31	28	11	1	0	0	0	0	0	0	99	4	5	37	88	75	25	3	1	0	0	0	0	0	238
14:00	3	3	10	50	77	34	9	1	0	0	0	0	0	187	0	2	12	53	73	21	2	1	0	0	0	0	0	164	3	5	22	103	150	55	11	2	0	0	0	0	0	351
15:00	1	5	8	32	39	24	8	1	0	0	0	0	0	118	1	7	25	64	54	14	1	1	0	0	0	0	0	167	2	12	33	96	93	38	9	2	0	0	0	0	0	285
16:00	0	3	8	44	55	22	6	0	1	0	0	0	0	139	0	2	22	67	49	11	5	0	0	0	0	0	0	156	0	5	30	111	104	33	11	0	0	1	0	0	0	295
17:00	3	1	6	46	45	25	5	2	0	0	0	0	0	134	1	7	28	69	38	13	4	1	0	0	0	0	0	161	4	8	34	115	84	38	9	3	0	0	0	0	0	295
18:00	1	0	7	32	36	18	4	3	3	0	0	0	0	104	0	2	20	45	45	19	5	1	0	0	0	0	0	137	1	2	27	77	81	37	9	4	3	0	0	0	0	241
19:00	1	1	8	28	32	18	1	1	0	0	0	0	0	90	1	4	15	40	30	13	2	0	0	0	0	0	0	105	2	5	23	68	62	31	3	1	0	0	0	0	0	195
20:00	0	0	10	17	19	15	2	1	0	0	0	0	0	64	0	2	14	33	26	17	5	0	1	0	0	0	0	98	0	2	24	50	45	32	7	1	1	0	0	0	0	162
21:00	1	2	10	13	13	6	3	0	0	0	0	0	0	48	0	1	18	24	16	5	1	1	0	0	0	0	0	66	1	3	28	37	29	11	4	1	0	0	0	0	0	114
22:00	0	1	4	12	13	6	2	1	0	0	0	0	0	39	0	1	13	16	10	5	0	1	2	0	0	0	0	48	0	2	17	28	23	11	2	2	2	0	0	0	0	87
23:00	0	2	4	6	11	0	2	0	0	0	0	0	0	25	1	1	12	13	8	4	0	0	0	0	0	0	0	39	1	3	16	19	19	4	2	0	0	0	0	0	0	64
Totals	28	37	148	625	688	332	77	20	6	1	0	0	0	1,962	13	67	260	639	627	256	69	10	4	0	0	0	0	1,945	41	104	408	1,264	1,315	588	146	30	10	1	0	0	0	3,907
% of Totals	1%	2%	8%	32%	35%	17%	4%	1%	0%	0%				100%	1%	3%	13%	33%	32%	13%	4%	1%	0%					100%	1%	3%	10%	32%	34%	15%	4%	1%	0%	0%				100%

STATISTICS

	NORTHBOUND 5–15	15–20	20–25	25–30	30–35	35–40	40–45	45–50	50–55	55–60	60–65	65–70	70+	Total	SOUTHBOUND 5–15	15–20	20–25	25–30	30–35	35–40	40–45	45–50	50–55	55–60	60–65	65–70	70+	Total	TOTALS 5–15	15–20	20–25	25–30	30–35	35–40	40–45	45–50	50–55	55–60	60–65	65–70	70+	Total
00:00 - 12:00	16	18	49	235	257	128	29	9	3	0	0	0	0	744	7	31	48	135	214	110	39	4	1	0	0	0	0	589	23	49	97	370	471	238	68	13	4	0	0	0	0	1333
%	1%	1%	2%	12%	13%	7%	1%	0%	0%	0%	0%	0%	0%	38%	0%	2%	2%	7%	11%	6%	2%	0%	0%	0%	0%	0%	0%	30%	1%	2%	5%	19%	24%	12%	3%	1%	0%	0%	0%	0%	0%	68%
Peak Hour	6:15	7:45	10:30	8:00	8:15	7:45	6:30	6:30	9:45	0:00	0:00	0:00	0:00	8:15	6:45	8:15	10:45	11:45	8:45	7:45	7:00	6:00	10:15	0:00	0:00	0:00	0:00	8:45	6:15	8:15	10:45	11:45	8:00	7:45	7:00	6:30	10:15	0:00	0:00	0:00	0:00	8:00
Peak Volume	4	5	14	52	61	28	7	4	2	0	0	0	0	154	3	11	21	47	58	28	12	1	1	0	0	0	0	128	5	16	34	90	115	56	19	5	3	0	0	0	0	277
12:00 - 24:00	12	19	99	390	431	204	48	11	3	1	0	0	0	1218	6	36	212	504	413	146	30	6	3	0	0	0	0	1356	18	55	311	894	844	350	78	17	6	1	0	0	0	2574
%	1%	1%	5%	20%	22%	10%	2%	1%	0%	0%	0%	0%	0%	62%	0%	2%	11%	26%	21%	7%	2%	0%	0%	0%	0%	0%	0%	69%	1%	3%	16%	46%	43%	18%	4%	1%	0%	0%	0%	0%	0%	131%
Peak Hour	13:15	15:00	13:15	13:15	14:00	14:00	14:30	17:15	18:00	15:30	12:00	12:00	12:00	14:00	12:30	15:00	15:30	16:15	14:15	14:00	18:30	17:15	21:30	12:00	12:00	12:00	12:00	14:30	13:15	15:00	13:15	17:00	14:00	14:00	14:30	17:15	18:00	15:30	12:00	12:00	12:00	14:00
Peak Volume	4	5	17	71	77	34	12	3	3	1	0	0	0	187	2	7	28	75	77	21	6	2	2	0	0	0	0	172	6	12	40	115	150	55	15	5	3	1	0	0	0	351
07:00 - 09:00	5	6	11	82	113	50	10	5	1	0	0	0	0	283	2	15	5	37	82	45	18	1	0	0	0	0	0	205	7	21	16	119	195	95	28	6	1	0	0	0	0	488
%	0%	0%	1%	4%	6%	3%	1%	0%	0%	0%	0%	0%	0%	14%	0%	1%	0%	2%	4%	2%	1%	0%	0%	0%	0%	0%	0%	10%	0%	1%	1%	6%	10%	5%	1%	0%	0%	0%	0%	0%	0%	25%
Peak Hour	7:00	7:45	8:00	8:00	7:30	7:45	7:00	7:00	7:00	7:00	7:00	7:00	7:00	7:45	7:00	8:00	7:45	8:00	8:00	7:45	7:00	7:15	7:00	7:00	7:00	7:00	7:00	8:00	7:00	8:00	8:00	8:00	8:00	7:45	7:00	7:00	7:00	7:00	7:00	7:00	7:00	8:00
Peak Volume	3	5	7	52	59	28	7	4	1	0	0	0	0	153	2	10	4	23	57	28	12	1	0	0	0	0	0	125	5	15	10	75	115	56	19	4	1	0	0	0	0	277
16:00 - 18:00	3	4	14	90	101	47	11	2	0	1	0	0	0	273	1	9	50	136	87	24	9	1	0	0	0	0	0	317	4	13	64	226	188	71	20	3	0	1	0	0	0	590
%	0%	0%	1%	5%	5%	2%	1%	0%	0%	0%	0%	0%	0%	14%	0%	0%	3%	7%	4%	1%	0%	0%	0%	0%	0%	0%	0%	16%	0%	1%	3%	12%	10%	4%	1%	0%	0%	0%	0%	0%	0%	30%
Peak Hour	17:00	16:30	16:15	17:00	16:00	16:30	16:30	16:15	16:00	16:00	16:00	16:00	16:00	16:30	16:45	16:15	17:00	16:15	16:00	16:30	16:00	16:45	16:00	16:00	16:00	16:00	16:00	16:15	17:00	16:30	17:00	17:00	16:00	16:30	16:30	16:45	16:00	16:00	16:00	16:00	16:00	16:30
Peak Volume	3	4	9	46	55	27	7	2	0	1	0	0	0	146	1	7	28	75	49	13	5	1	0	0	0	0	0	166	4	11	34	115	104	40	12	3	0	1	0	0	0	307

Direction	Percentiles 15th	50th	Average	85th	95th	ADT
NORTHBOUND	27	31	32	37	41	1962
SOUTHBOUND	25	30	30	36	40	1945
TOTALS	26	31	31	37	40	3907

Direction	Pace 10mph Pace	# in Pace	% in Pace	Number of Vehicles >= 55 MPH	% of Vehicles >= 55 MPH
NORTHBOUND	27 - 36 mph	1355	69%	2	0%
SOUTHBOUND	26 - 35 mph	1266	65%	1	0%
TOTALS	27 - 36 mph	2593	66%	3	0%

15-MINUTE BREAKDOWN

Time	NORTHBOUND 5–15	15–20	20–25	25–30	30–35	35–40	40–45	45–50	50–55	55–60	60–65	65–70	70+	Total	SOUTHBOUND 5–15	15–20	20–25	25–30	30–35	35–40	40–45	45–50	50–55	55–60	60–65	65–70	70+	Total	TOTALS 5–15	15–20	20–25	25–30	30–35	35–40	40–45	45–50	50–55	55–60	60–65	65–70	70+	Total
0:00	1	0	0	0	0	1	1	0	0	0	0	0	0	3	1	0	0	0	0	1	1	0	0	0	0	0	0	3	2	0	0	0	0	2	2	0	0	0	0	0	0	6
0:15	0	0	3	2	0	1	2	0	0	0	0	0	0	8	0	1	0	0	0	2	1	0	0	0	0	0	0	4	0	1	3	2	0	3	3	0	0	0	0	0	0	12
0:30	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	2	0	0	0	0	0	3	0	0	0	0	1	0	1	2	0	0	0	0	0	4
0:45	0	1	0	2	1	1	0	0	0	0	0	0	0	5	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	1	0	2	1	1	1	0	0	0	0	0	0	6
1:00	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	2	0	0	0	2	0	1	0	0	0	0	0	0	0	3
1:15	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0	2
1:30	1	0	0	0	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	2
1:45	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1	0	0	0	0	0	0	0	0	2	0	1	0	1	1	0	0	0	0	0	0	0	0	3
2:00	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	1	3	0	0	0	0	0	0	0	0	0	4	0	0	1	3	0	1	0	0	0	0	0	0	0	5
2:15	0	0	0	0	1	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2
2:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	1
2:45	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	0	0	0	0	0	0	0	2
3:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	1
3:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:45	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
4:00	1	0	0	1	0	0	0	0	0	0	0	0	0	2	0	0	1	1	0	0	0	0	0	0	0	0	0	2	1	0	1	2	0	0	0	0	0	0	0	0	0	4
4:15	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1	0	0	0	0	0	0	0	0	2
4:30	0	2	0	3	2	0	0	0	0	0	0	0	0	7	0	1	0	0	0	1	0	0	0	0	0	0	0	2	0	3	0	3	2	1	0	0	0	0	0	0	0	9
4:45	0	0	2	2	1	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	1	0	0	0	0	0	0	0	0	5
5:00	0	0	0	3	1	0	0	0	0	0	0	0	0	4	0	0	0	0	2	1	0	0	0	0	0	0	0	3	0	0	0	3	3	1	0	0	0	0	0	0	0	7
5:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	0	1	0	0	0	0	0	0	4	1	1	0	0	1	1	1	0	0	0	0	0	0	4
5:30	0	0	2	2	1	3	0	1	0	0	0	0	0	9	0	0	1	0	1	0	0	0	0	0	0	0	0	2	0	0	3	2	2	3	0	1	0	0	0	0	0	11
5:45	0	0	0	8	3	6	0	0	0	0	0	0	0	17	1	1	1	3	3	0	1	0	0	0	0	0	0	10	1	1	1	11	6	6	1	0	0	0	0	0	0	27
6:00	0	0	1	2	3	1	0	0	0	0	0	0	0	7	0	1	1	1	3	2	0	0	0	0	0	0	0	8	0	1	2	3	6	3	0	0	0	0	0	0	0	15
6:15	2	1	2	5	4	4	1	0	0	0	0	0	0	19	0	0	2	1	2	3	0	0	0	0	0	0	0	8	2	1	4	6	6	7	1	0	0	0	0	0	0	27
6:30	1	0	1	4	10	2	0	0	0	0	0	0	0	18	0	1	0	1	5	2	1	0	0	0	0	0	0	10	1	1	1	5	15	4	1	0	0	0	0	0	0	28
6:45	0	0	2	6	8	6	2	0	0	0	0	0	0	24	1	2	2	1	6	2	2	1	0	0	0	0	0	17	1	2	4	7	14	8	4	1	0	0	0	0	0	41
7:00	1	0	0	9	11	8	2	3	0	0	0	0	0	34	0	1	0	3	5	8	6	0	0	0	0	0	0	23	1	1	0	12	16	16	8	3	0	0	0	0	0	57
7:15	1	1	0	3	7	3	1	0	0	0	0	0	0	16	1	1	1	3	4	2	1	0	0	0	0	0	0	13	2	2	1	6	11	5	2	1	0	0	0	0	0	29
7:30	0	0	2	12	16	4	0	0	0	0	0	0	0	34	1	2	0	6	6	2	1	0	0	0	0	0	0	18	1	2	2	18	22	6	1	0	0	0	0	0	0	52
7:45	1	0	2	6	18	7	2	0	1	0	0	0	0	37	0	1	1	2	10	8	4	0	0	0	0	0	0	26	1	1	3	8	28	15	6	0	1	0	0	0	0	63
8:00	0	0	1	16	13	7	0	0	0	0	0	0	0	37	0	0	1	4	18	8	4	1	0	0	0	0	0	36	0	0	2	20	31	15	4	1	0	0	0	0	0	73
8:15	0	2	1	17	12	5	0	1	0	0	0	0	0	38	0	3	0	3	13	8	0	0	0	0	0	0	0	27	0	5	1	20	25	13	0	1	0	0	0	0	0	65
8:30	0	3	1	10	16	9	2	0	0	0	0	0	0	41	0	1	2	6	11	4	2	0	0	0	0	0	0	26	0	4	3	16	27	13	4	0	0	0	0	0	0	67
8:45	2	0	4	9	17	3	1	0	0	0	0	0	0	36	0	6	0	10	15	5	0	0	0	0	0	0	0	36	2	6	4	19	32	8	1	0	0	0	0	0	0	72
9:00	0	0	5	14	16	4	0	0	0	0	0	0	0	39	0	1	1	5	14	6	0	1	0	0	0	0	0	28	0	1	6	19	30	10	0	1	0	0	0	0	0	67
9:15	0	2	1	12	7	6	2	0	0	0	0	0	0	30	0	1	1	6	14	8	3	0	0	0	0	0	0	33	0	3	2	18	21	14	5	0	0	0	0	0	0	63
9:30	1	0

Prepared by National Data & Surveying Services

VOLUME

Reservoir Ave S/O Rocky Hill Terrace

Day: Monday
Date: 7/21/2025

City: Trumbull
Project #: CT25_410098_001

DAILY TOTALS	NB	SB	EB	WB	Total
	1,962	1,945	0	0	3,907

15-Minutes Interval

TIME	NB	SB	EB	WB	TOTAL	TIME	NB	SB	EB	WB	TOTAL
0:00	3	3			6	12:00	30	32			62
0:15	8	4			12	12:15	30	26			56
0:30	1	3			4	12:30	28	30			58
0:45	5	1			6	12:45	43	28			71
1:00	1	2			3	13:00	25	29			54
1:15	1	1			2	13:15	38	24			62
1:30	2	0			2	13:30	32	17			49
1:45	1	2			3	13:45	44	29			73
2:00	1	4			5	14:00	66	39			105
2:15	2	0			2	14:15	39	36			75
2:30	0	1			1	14:30	36	41			77
2:45	1	1			2	14:45	46	48			94
3:00	0	0			0	15:00	28	44			72
3:15	0	1			1	15:15	34	39			73
3:30	0	0			0	15:30	31	39			70
3:45	1	0			1	15:45	25	45			70
4:00	2	2			4	16:00	32	40			72
4:15	1	1			2	16:15	33	36			69
4:30	7	2			9	16:30	37	49			86
4:45	5	0			5	16:45	37	31			68
5:00	4	3			7	17:00	30	50			80
5:15	0	4			4	17:15	42	31			73
5:30	9	2			11	17:30	29	45			74
5:45	17	10			27	17:45	33	35			68
6:00	7	8			15	18:00	30	29			59
6:15	19	8			27	18:15	19	34			53
6:30	18	10			28	18:30	25	39			64
6:45	24	17			41	18:45	30	35			65
7:00	34	23			57	19:00	18	26			44
7:15	26	13			39	19:15	26	24			50
7:30	34	18			52	19:30	26	26			52
7:45	37	26			63	19:45	20	29			49
8:00	37	36			73	20:00	21	30			51
8:15	38	27			65	20:15	20	15			35
8:30	41	26			67	20:30	11	31			42
8:45	36	36			72	20:45	12	22			34
9:00	39	28			67	21:00	11	23			34
9:15	30	33			63	21:15	9	14			23
9:30	25	31			56	21:30	13	20			33
9:45	26	21			47	21:45	15	9			24
10:00	27	24			51	22:00	10	18			28
10:15	27	12			39	22:15	4	8			12
10:30	26	21			47	22:30	9	10			19
10:45	21	24			45	22:45	16	12			28
11:00	23	29			52	23:00	10	15			25
11:15	24	21			45	23:15	3	12			15
11:30	27	23			50	23:30	7	5			12
11:45	26	27			53	23:45	5	7			12
TOTALS	744	589	0	0	1333	TOTALS	1218	1356	0	0	2574
SPLIT %	56%	44%	0%	0%	34%	SPLIT %	47%	53%	0%	0%	66%

DAILY TOTALS

Hourly Intervals

TIME		NB	SB	EB	WB	TOTAL
00:00	01:00	17	11			28
01:00	02:00	5	5			10
02:00	03:00	4	6			10
03:00	04:00	1	1			2
04:00	05:00	15	5			20
05:00	06:00	30	19			49
06:00	07:00	68	43			111
07:00	08:00	131	80			211
08:00	09:00	152	125			277
09:00	10:00	120	113			233
10:00	11:00	101	81			182
11:00	12:00	100	100			200
12:00	13:00	131	116			247
13:00	14:00	139	99			238
14:00	15:00	187	164			351
15:00	16:00	118	167			285
16:00	17:00	139	156			295
17:00	18:00	134	161			295
18:00	19:00	104	137			241
19:00	20:00	90	105			195
20:00	21:00	64	98			162
21:00	22:00	48	66			114
22:00	23:00	39	48			87
23:00	00:00	25	39			64

STATISTICS

	NB	SB	EB	WB	TOTAL
Peak Period	00:00	to	12:00		
Volume	744	589			1333
Peak Hour	8:15	8:45			8:00
Peak Volume	154	128			277
Peak Hour Factor	0.939	0.889			0.949
Peak Period	12:00	to	00:00		
Volume	1218	1356			2574
Peak Hour	14:00	14:30			14:00
Peak Volume	187	172			351
Peak Hour Factor	0.708	0.896			0.836
Peak Period	07:00	to	09:00		
Volume	283	205			488
Peak Hour	7:45	8:00			8:00
Peak Volume	153	125			277
Peak Hour Factor	0.933	0.868			0.949
Peak Period	16:00	to	18:00		
Volume	273	317			590
Peak Hour	16:30	16:15			16:30
Peak Volume	146	166			307
Peak Hour Factor	0.869	0.830			0.892



Prepared by National Data & Surveying Services

SPEED

Reservoir Ave S/O Rocky Hill Terrace

Day: Tuesday
Date: 7/22/2025

City: Trumbull
Project #: CT25_410098_001

HOURLY BREAKDOWN

Time	NORTHBOUND 5	15	20	25	30	35	40	45	50	55	60	65	70	Total	SOUTHBOUND 5	15	20	25	30	35	40	45	50	55	60	65	70	Total	TOTALS 5	15	20	25	30	35	40	45	50	55	60	65	70	Total
	15	20	25	30	35	40	45	50	55	60	65	70	99		15	20	25	30	35	40	45	50	55	60	65	70	99		15	20	25	30	35	40	45	50	55	60	65	70	99	
0:00	0	0	0	6	1	0	2	1	0	0	0	0	0	10	0	2	5	7	6	2	2	0	0	0	0	0	0	24	0	2	5	13	7	2	4	1	0	0	0	0	0	34
1:00	0	0	1	1	0	3	0	0	0	0	0	0	0	5	0	0	4	5	1	0	1	0	0	0	0	0	0	11	0	0	5	6	1	3	1	0	0	0	0	0	0	16
2:00	0	2	0	1	0	1	0	0	0	0	0	0	0	2	0	0	1	2	0	0	0	0	0	0	0	0	0	3	0	0	1	3	0	0	1	0	0	0	0	0	0	5
3:00	0	0	1	2	2	0	0	0	0	0	0	0	0	5	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1	2	3	0	0	0	0	0	0	0	0	6
4:00	0	0	2	2	4	2	0	0	0	0	0	0	0	10	0	0	1	4	2	0	0	0	0	0	0	0	0	7	0	0	3	6	6	2	0	0	0	0	0	0	0	17
5:00	1	0	1	8	20	10	3	0	1	0	0	0	0	44	0	2	6	7	2	1	0	0	0	0	0	0	0	18	1	2	7	15	22	11	3	0	1	0	0	0	0	62
6:00	0	2	3	13	32	13	5	1	1	0	0	0	0	70	0	6	8	17	16	3	4	2	0	0	0	0	0	56	0	8	11	30	48	16	9	3	1	0	0	0	0	126
7:00	2	2	11	36	47	25	7	0	2	0	0	0	0	132	0	6	16	35	20	3	2	0	0	0	0	0	0	82	2	8	27	71	67	28	9	0	2	0	0	0	0	214
8:00	1	2	17	44	72	32	7	1	0	0	0	0	0	176	0	2	22	59	30	5	1	1	0	0	0	0	0	120	1	4	39	103	102	37	8	2	0	0	0	0	0	296
9:00	0	2	11	33	41	19	2	2	1	0	0	0	0	111	0	4	22	49	18	6	1	0	0	0	0	0	0	100	0	6	33	82	59	25	3	2	1	0	0	0	0	211
10:00	1	3	10	33	33	17	5	0	0	0	0	0	0	102	0	4	14	48	19	6	0	0	0	0	0	0	0	91	1	7	24	81	52	23	5	0	0	0	0	0	0	193
11:00	1	6	10	31	31	15	3	1	0	0	0	0	0	98	1	2	22	54	13	5	1	1	0	0	0	0	0	99	2	8	32	85	44	20	4	2	0	0	0	0	0	197
12:00	0	0	11	31	47	25	5	0	0	0	0	0	0	119	1	3	18	47	41	15	3	0	0	0	0	0	0	128	1	3	29	78	88	40	8	0	0	0	0	0	0	247
13:00	3	2	14	31	46	22	8	2	0	0	0	0	0	128	1	3	12	25	30	12	2	0	0	0	0	0	0	85	4	5	26	56	76	34	10	2	0	0	0	0	0	213
14:00	0	3	5	28	35	23	5	1	0	0	0	0	0	100	0	0	10	34	57	15	4	1	0	0	0	0	0	121	0	3	15	62	92	38	9	2	0	0	0	0	0	221
15:00	1	2	13	25	40	30	10	3	1	1	0	0	0	126	1	3	13	52	60	19	7	1	0	0	0	0	0	156	2	5	26	77	100	49	17	4	1	1	0	0	0	282
16:00	2	1	12	43	60	28	2	3	1	0	0	0	0	152	1	3	14	51	73	15	3	1	1	0	0	0	0	162	3	4	26	94	133	43	5	4	2	0	0	0	0	314
17:00	0	0	10	32	54	19	11	2	0	0	0	0	0	128	0	1	14	51	46	23	7	1	1	0	0	0	0	146	0	1	24	85	100	42	18	3	1	0	0	0	0	274
18:00	1	2	14	37	35	13	6	1	2	0	0	0	0	111	5	0	14	51	44	20	12	0	0	0	0	0	0	146	6	2	28	88	79	33	18	1	2	0	0	0	0	257
19:00	0	3	11	35	22	8	3	0	1	0	0	0	0	83	0	4	20	49	29	8	5	1	0	0	0	0	0	116	0	7	31	84	51	16	8	1	1	0	0	0	0	199
20:00	1	1	9	25	44	6	4	2	2	0	0	0	0	94	0	4	17	36	30	12	3	0	0	0	0	0	0	102	1	5	26	61	74	18	7	2	2	0	0	0	0	196
21:00	0	1	5	18	16	8	2	1	0	0	0	0	0	51	0	2	20	29	21	3	0	1	0	0	0	0	0	76	0	3	25	47	37	11	2	2	0	0	0	0	0	127
22:00	0	4	5	12	13	8	4	0	0	0	0	0	0	46	0	5	10	18	14	2	3	1	0	0	0	0	0	53	0	9	15	30	27	10	7	1	0	0	0	0	0	99
23:00	0	0	3	8	8	2	3	1	0	0	0	0	0	25	0	1	13	15	8	2	0	1	0	0	0	0	0	40	0	1	16	23	16	4	3	2	0	0	0	0	0	65
Totals	14	36	179	535	703	328	98	22	12	1	0	0	0	1,928	10	57	296	747	581	177	61	12	2	0	0	0	0	1,943	24	93	475	1,282	1,284	505	159	34	14	1	0	0	0	3,871
% of Totals	1%	2%	9%	28%	36%	17%	5%	1%	1%	0%				100%	1%	3%	15%	38%	30%	9%	3%	1%	0%					100%	1%	2%	12%	33%	33%	13%	4%	1%	0%	0%				100%

STATISTICS

	NORTHBOUND 5	15	20	25	30	35	40	45	50	55	60	65	70	Total	SOUTHBOUND 5	15	20	25	30	35	40	45	50	55	60	65	70	Total	TOTALS 5	15	20	25	30	35	40	45	50	55	60	65	70	Total
00:00 - 12:00	6	17	67	210	283	136	35	6	5	0	0	0	0	765	1	28	121	287	128	31	12	4	0	0	0	0	0	612	7	45	188	497	411	167	47	10	5	0	0	0	0	1377
%	0%	1%	3%	11%	15%	7%	2%	0%	0%	0%	0%	0%	0%	40%	0%	1%	6%	15%	7%	2%	1%	0%	0%	0%	0%	0%	0%	32%	0%	2%	10%	26%	21%	9%	2%	1%	0%	0%	0%	0%	0%	71%
Peak Hour	7:00	10:30	8:30	7:45	8:00	7:45	7:15	9:00	6:15	0:00	0:00	0:00	0:00	7:45	11:15	6:30	8:45	8:15	11:45	11:45	6:45	5:45	0:00	0:00	0:00	0:00	0:00	11:45	11:15	6:45	8:30	8:15	7:45	7:45	6:45	5:45	6:15	0:00	0:00	0:00	0:00	8:00
Peak Volume	2	6	20	44	72	36	9	2	3	0	0	0	0	177	2	10	31	64	36	11	6	2	0	0	0	0	0	134	3	13	48	104	103	38	12	3	3	0	0	0	0	296
12:00 - 24:00	8	19	112	325	420	192	63	16	7	1	0	0	0	1163	9	29	175	460	453	146	49	8	2	0	0	0	0	1331	17	48	287	785	873	338	112	24	9	1	0	0	0	2494
%	0%	1%	6%	17%	22%	10%	3%	1%	0%	0%	0%	0%	0%	60%	0%	2%	9%	24%	23%	8%	3%	0%	0%	0%	0%	0%	0%	69%	1%	2%	15%	41%	45%	18%	6%	1%	0%	0%	0%	0%	0%	129%
Peak Hour	12:30	18:30	12:30	16:15	16:00	15:00	17:15	14:45	18:15	14:30	12:00	12:00	12:00	16:15	18:00	20:15	20:30	16:15	15:30	17:15	17:30	14:30	16:15	12:00	12:00	12:00	12:00	15:30	18:00	22:00	15:30	16:15	15:45	14:30	17:15	15:15	15:30	14:30	12:00	12:00	12:00	15:45
Peak Volume	3	4	16	49	60	30	14	4	3	1	0	0	0	155	5	5	23	53	77	24	14	2	2	0	0	0	0	178	6	9	31	102	134	49	27	6	3	1	0	0	0	320
07:00 - 09:00	3	4	28	80	119	57	14	1	2	0	0	0	0	308	0	8	38	94	50	8	3	1	0	0	0	0	0	202	3	12	66	174	169	65	17	2	2	0	0	0	0	510
%	0%	0%	1%	4%	6%	3%	1%	0%	0%	0%	0%	0%	0%	16%	0%	0%	2%	5%	3%	0%	0%	0%	0%	0%	0%	0%	0%	10%	0%	1%	3%	9%	9%	3%	1%	0%	0%	0%	0%	0%	0%	26%
Peak Hour	7:00	7:30	8:00	7:45	8:00	7:45	7:15	7:00	7:00	7:00	7:00	7:00	7:00	7:45	7:00	7:00	7:30	8:00	7:45	8:00	7:00	7:45	7:00	7:00	7:00	7:00	7:00	8:00	7:00	7:15	8:00	8:00	8:00	7:45	7:15	7:45	7:00	7:00	7:00	7:00	7:00	8:00
Peak Volume	2	4	17	44	72	36	9	1	2	0	0	0	0	177	0	6	22	59	32	5	2	1	0	0	0	0	0	120	2	9	39	103	103	38	11	2	2	0	0	0	0	296
16:00 - 18:00	2	1	22	75	114	47	13	5	1	0	0	0	0	280	1	4	28	104	119	38	10	2	2	0	0	0	0	308	3	5	50	179	233	85	23	7	3	0	0	0	0	588
%	0%	0%	1%	4%	6%	2%	1%	0%	0%	0%	0%	0%	0%	15%	0%	0%	1%	5%	6%	2%	1%	0%	0%	0%	0%	0%	0%	16%	0%	0%	3%	9%	12%	4%	1%	0%	0%	0%	0%	0%	0%	30%
Peak Hour	16:00	16:00	16:00	16:15	16:00	16:00	17:00	16:00	16:00	16:00	16:00	16:00	16:00	16:15	16:00	16:00	16:00	16:15	16:00	16:00	17:00	17:00	16:00	16:15	16:00	16:00	16:00	16:00	16:00	16:00	16:00	16:15	16:00	16:00	17:00	16:00	16:15	16:00	16:00	16:00	16:00	16:00
Peak Volume	2	1	12	49	60	28	11	3	1	0	0	0	0	155	1	3	14	53	73	23	7	1	2	0	0	0	0	162	3	4	26	102	133	43	18	4	3	0	0	0	0	314

Direction	Percentiles 15th	50th	Average	85th	95th	ADT
NORTHBOUND	26	32	32	37	42	1928
SOUTHBOUND	25	30	30	35	40	1943
TOTALS	25	31	31	36	41	3871

Direction	Pace 10mph Pace	# in Pace	% in Pace	Number of Vehicles >= 55 MPH	% of Vehicles >= 55 MPH
NORTHBOUND	27 - 36 mph	1258	65%	3	0%
SOUTHBOUND	25 - 34 mph	1356	70%	0	0%
TOTALS	26 - 35 mph	2566	66%	3	0%

15-MINUTE BREAKDOWN

	NORTHBOUND 5	15	20	25	30	35	40	45	50	55	60	65	70	Total	SOUTHBOUND 5	15	20	25	30	35	40	45	50	55	60	65	70	Total	TOTALS 5	15	20	25	30	35	40	45	50	55	60	65	70	Total
0:00	0	0	0	3	0	0	0	0	0	0	0	0	0	3	0	1	1	2	3	2	2	0	0	0	0	0	0	11	0	1	1	5	3	2	2	0	0	0	0	0	0	14
0:15	0	0	0	1	0	0	0	1	0	0	0	0	0	2	0	1	3	2	3	0	0	0	0	0	0	0	0	9	0	1	3	3	3	0	0	1	0	0	0	0	0	11
0:30	0	0	0	1	0	0	2	0	0	0	0	0	0	3	0	0	1	1	0	0	0	0	0	0	0	0	0	2	0	0	1	2	0	0	2	0	0	0	0	0	0	5
0:45	0	0	0	1	1	0	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	2	0	0	0	3	1	0	0	0	0	0	0	0	0	4
1:00	0	0	0	0	3	0	0	0	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	3	1	0	0	0	0	0	0	0	4
1:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	4	0	0	0	0	0	0	0	0	0	7	0	0	0	3	4	0	0	0	0	0	0	0	0	7
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9:30	0	0	2	13	14	8	0	1	1	0	0	0	0	39	0	0	4	18	4	1	0	0

Prepared by National Data & Surveying Services

VOLUME

Reservoir Ave S/O Rocky Hill Terrace

Day: Tuesday
Date: 7/22/2025

City: Trumbull
Project #: CT25_410098_001

DAILY TOTALS	NB	SB	EB	WB	Total
	1,928	1,943	0	0	3,871

15-Minutes Interval

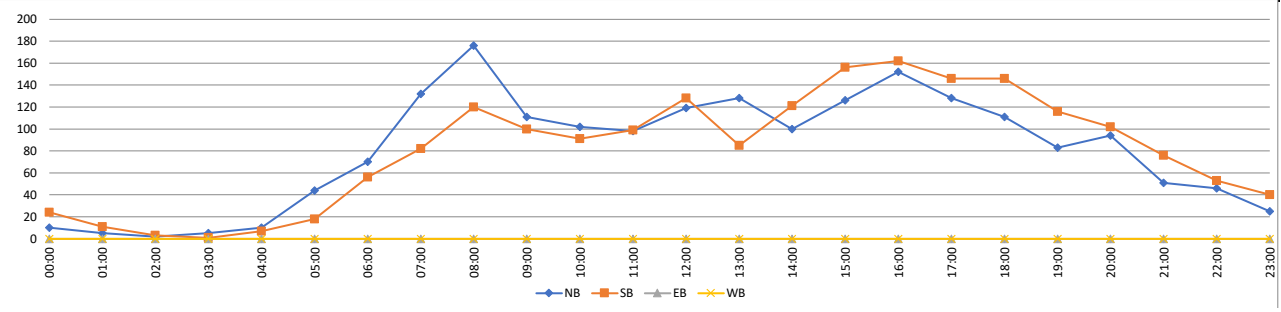
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0:30	3	2			5	12:30	35	32			67
0:45	2	2			4	12:45	25	26			51
1:00	3	1			4	13:00	20	21			41
1:15	0	7			7	13:15	32	20			52
1:30	0	2			2	13:30	40	25			65
1:45	2	1			3	13:45	36	19			55
2:00	0	0			0	14:00	26	35			61
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2:45	1	0			1	14:45	28	28			56
3:00	2	0			2	15:00	34	40			74
3:15	0	0			0	15:15	33	38			71
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5:00	6	3			9	17:00	29	31			60
5:15	4	5			9	17:15	33	44			77
5:30	18	6			24	17:30	38	37			75
5:45	16	4			20	17:45	28	34			62
6:00	13	12			25	18:00	30	37			67
6:15	11	7			18	18:15	29	37			66
6:30	21	17			38	18:30	27	33			60
6:45	25	20			45	18:45	25	39			64
7:00	21	18			39	19:00	21	32			53
7:15	40	17			57	19:15	23	33			56
7:30	33	22			55	19:30	19	29			48
7:45	38	25			63	19:45	20	22			42
8:00	40	25			65	20:00	18	32			50
8:15	41	33			74	20:15	24	24			48
8:30	58	30			88	20:30	26	22			48
8:45	37	32			69	20:45	26	24			50
9:00	22	28			50	21:00	20	25			45
9:15	27	26			53	21:15	8	23			31
9:30	39	27			66	21:30	11	13			24
9:45	23	19			42	21:45	12	15			27
10:00	24	30			54	22:00	16	14			30
10:15	33	14			47	22:15	16	12			28
10:30	18	23			41	22:30	7	10			17
10:45	27	24			51	22:45	7	17			24
11:00	20	15			35	23:00	10	15			25
11:15	14	26			40	23:15	8	10			18
11:30	23	26			49	23:30	2	6			8
11:45	41	32			73	23:45	5	9			14
TOTALS	765	612	0	0	1377	TOTALS	1163	1331	0	0	2494
SPLIT %	56%	44%	0%	0%	36%	SPLIT %	47%	53%	0%	0%	64%

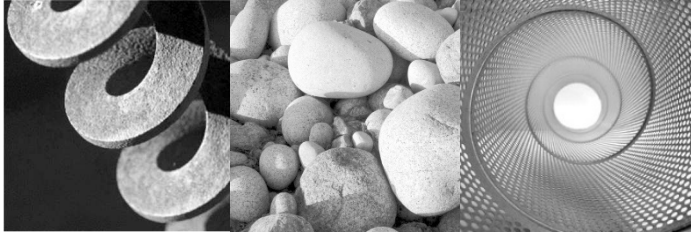
Hourly Intervals

TIME		NB	SB	EB	WB	TOTAL
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03:00	04:00	5	1			6
04:00	05:00	10	7			17
05:00	06:00	44	18			62
06:00	07:00	70	56			126
07:00	08:00	132	82			214
08:00	09:00	176	120			296
09:00	10:00	111	100			211
10:00	11:00	102	91			193
11:00	12:00	98	99			197
12:00	13:00	119	128			247
13:00	14:00	128	85			213
14:00	15:00	100	121			221
15:00	16:00	126	156			282
16:00	17:00	152	162			314
17:00	18:00	128	146			274
18:00	19:00	111	146			257
19:00	20:00	83	116			199
20:00	21:00	94	102			196
21:00	22:00	51	76			127
22:00	23:00	46	53			99
23:00	00:00	25	40			65

STATISTICS

	NB	SB	EB	WB	TOTAL
Peak Period	00:00	to	12:00		
Volume	765	612			1377
Peak Hour	7:45	8:15			8:00
Peak Volume	177	123			296
Peak Hour Factor	0.763	0.932			0.841
Peak Period	12:00	to	00:00		
Volume	1163	1331			2494
Peak Hour	16:15	15:30			15:45
Peak Volume	155	178			320
Peak Hour Factor	0.842	0.824			0.808
Peak Period	07:00	to	09:00		
Volume	308	202			510
Peak Hour	7:45	8:00			8:00
Peak Volume	177	120			296
Peak Hour Factor	0.763	0.909			0.841
Peak Period	16:00	to	18:00		
Volume	280	308			588
Peak Hour	16:15	16:00			16:00
Peak Volume	155	162			314
Peak Hour Factor	0.842	0.750			0.793





GEI Consultants

Consulting
Engineers and
Scientists

Geotechnical Report

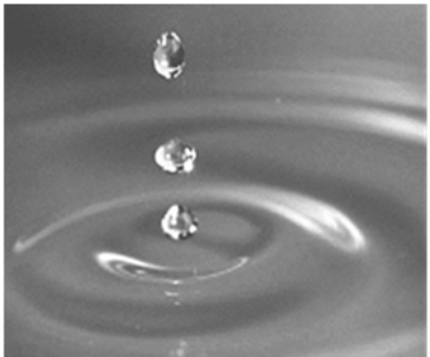
Multi-family Development

2135, 2145, and 2155 Reservoir Avenue
Trumbull, Connecticut

Submitted to:
Vessel® Technologies
46 West 55th Street
New York, NY 10019

Submitted by:
GEI Consultants, Inc.
455 Winding Brook Drive, Suite 201
Glastonbury, CT 06033
860-368-5300

August 6, 2025
Project No. 2503632



Majid Mahmoodabadi, P.E. (MI)
Staff Professional

Matthew Glunt, P.E.
Senior Geotechnical Engineer

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1 Test Location Plan

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A Boring Logs
B Laboratory Test Results
C Recommended Material Specifications

1. Introduction

1.1 Project Summary

The 3.84-acre assemblage site slated for development is located at 2135, 2145, and 2155 Reservoir Avenue in Trumbull, Connecticut.

We understand new construction is to consist of a multi-family residential development with two (2) 5-story buildings, 11,374 SF each, with prefabricated residential units stacked evenly over five floors. Appurtenant site features will include amenity areas, concrete sidewalks, associated parking, access drive, and stormwater management features, which we expect will likely consist of surface basins, underground detention, or a combination of both.

This report was prepared to address foundation and site preparation recommendations for the proposed construction.

1.2 Scope of Services

Our scope of work included the following tasks:

- Reviewed site plans and provided layout drawings.
- Engaged a subcontractor to drill ten (10) test borings within the site.
- Observed and classified soil samples recovered from the test borings, took groundwater level measurements and prepared test boring logs.
- Engaged a testing laboratory to perform laboratory analyses on soil samples obtained from the test borings to verify visual classification and evaluate subsurface conditions.
- Developed recommendations for site preparation, pavement design, earthworks, seismic design, and foundation design and construction.
- Prepared this *Geotechnical Report.*

1.3 Authorization

Our work was performed in general accordance with our proposal dated June 17, 2025, and the resulting Standard Professional Services agreement executed June 19, 2025.

1.4 Vertical and Horizontal Reference

Borings were located and referenced using handheld GPS with accuracy on the order of 5 to 10 feet. The locations shown on the attached figure should be considered approximate.

Elevations referenced in this report and on the attached test boring logs were estimated from a topographic survey of the site provided by Solli Engineering.

2. Site and Project Description

2.1 Site Description and History

The assemblage property slated for development consists of residential lots located at 2135, 2145, and 2155 Reservoir Avenue in Trumbull, Connecticut.

The largest parcel, 2155 Reservoir Avenue, consists of a residential structure with a large cleared laydown area in the rear (west). We understand this gravel-paved lot formerly supported a commercial contracting operation managed by the property owner. Based on the results of this investigation and a brief review of historic aerial photos, grade-raise fill was likely placed to construct the south to southeast portion of this former contractor lot. The parcels at 2135 and 2145 Reservoir Avenue are traditional residential grassed lots with high-canopy tree cover.

The site gradually slopes gradually downward to the east, with total relief across the development area on the order of 17 feet.

2.2 Proposed Construction

Our current understanding of the project is based on the information provided to GEI as shown on conceptual drawing *"CP-3"* dated 06/11/2025, as detailed below, and information previously provided for similar Vessel facilities.

We understand that the project will involve construction of two (2) five-story residential buildings consisting of stacked prefabricated units with a footprint of 11,374-sf each. From prior experience, we also understand the structure will likely be founded on a series of grade beams supporting load-bearing walls and an elevated cold-formed metal panel floor. Though site grading plans are still in development, we expect required cuts and fills in most areas to be up to about 5 feet.

Stormwater management is expected to consist of a combination of basins and subsurface detention chambers installed below the parking areas.

3. Exploration Procedures

3.1 Test Borings

The boring locations were laid out on the site from the provided conceptual plan using handheld GPS. Approximate boring locations relative to the conceptual site plan are shown on Figure 1.

Ten (10) soil test borings (B-1 through B-10) were performed at the site between July 7 and July 10, 2025, by General Borings Inc., under subcontract to GEI. The appropriate one-call utility location service (Call Before You Dig) was contacted prior to our arrival. The borings were advanced to depths of 5.5 feet to 17 feet each, terminating either with auger refusal or a planned maximum depth, utilizing hollow-stem augering techniques and a track-mounted drilling rig. Rock core sampling was not conducted as part of this investigation. Boring logs are attached in Appendix A.

Standard Penetration Testing (SPT) and split-spoon sampling were generally performed continuously through the upper 8 feet of the borings and at 5-foot intervals thereafter using a 140-pound automatic hammer. Representative samples of the soils obtained by the sampler were classified by the on-site GEI engineer. The samples were placed in appropriately identified sealed glass jars and transported to our office for laboratory assignment.

Borings B-7 to B-10 were conducted as auger probes with soil sampling from drill cuttings at approximate 2-foot intervals. All borings and probes were backfilled with drill cuttings upon completion.

3.2 Laboratory Testing

Laboratory testing was conducted on representative soil samples to confirm field identification of the soils and establish engineering characteristics for design. Tests performed by GeoTesting Express, under subcontract to GEI, included the following:

- Three (3) grain-size analysis with standard sieve set (ASTM D422)
- Three (3) moisture content analyses (ASTM D2216)

Results of the laboratory testing program are included in Appendix B.

4. Subsurface Conditions

4.1 Geologic Setting

Local geologic mapping indicates that this area of Trumbull is underlain by a thin layer of upland dense and rocky glacial till soils, with potential for shallow bedrock.

Bedrock below the site is mapped as the Shelton Member of the metamorphic Trap Falls formation, characterized as white to light-gray, medium- to coarse-grained granitic gneiss (Rodgers, USGS, 1985).

4.2 Subsurface Conditions

The generalized subsurface conditions at the site are described below, in order of increasing depth. The subsurface conditions between boring locations may differ. The nature and extent of variations between the sampling points will not become evident until construction.

Surface Material – Within grassed areas, topsoil thickness within the borings was measured as between 4 and 11 inches. Borings B-7, B-9, B-10 within the primary storage area encountered 11 to 12 inches of crushed concrete paving.

Historic Fill – Historic fill was encountered in boring B-6, and to a lesser degree B-5, in the south to southeast portion of the cleared former storage area to depths of about 2 to 7 feet below current grade. As noted above, it appears that this area was filled over naturally low-lying ground during construction of the storage area.

Historic fill soils were primarily classified as fine to coarse-grained sand with up to 10 percent non-plastic silt fines, similar in character to natural sands encountered elsewhere on site. SPT N-values in these soils generally ranged between 5 and 17 blows/foot, indicating loose to medium-dense conditions, with occasional very loose and dense zones.

A thin layer of slightly organic, soft sandy silt was encountered directly beneath the historic fill at boring B-6, likely signifying native surficial material.

Glacial Till – Native silty and gravelly sands (glacial till) were encountered below the topsoil or historic fill, continuing to termination depth at all exploration locations. These soils were typically characterized as an upper zone about 2 feet in thickness exhibiting 20 to 40 percent non-plastic silt fines, underlain by progressively coarser materials with 5 to 15 percent non-plastic silt fines. Cobbles to small boulders were encountered in many of the test

borings, as evidenced by grinding of augers (rig "chatter"), and should be expected within the site glacial tills.

Standard Penetration Test (SPT) N-values generally indicated loose to medium-dense conditions near the ground surface, to dense and very dense at depth.

Weathered Rock – Weathered rock was encountered in some borings within about 12 to 18 inches of refusal depth. The transition into this material was noted by sharp increases in SPT N-value, moderate difficulty in advancement of the drilling augers, and presence of decomposed rock fragments in the samples and drill cuttings.

Refusal Material – Drilling refusals were noted in many of the borings conducted on the site. Drilling refusal is defined as material that could not be penetrated with the drill rig equipment used on the project. Refusal of the drilling tools may have resulted from the presence of tight gravel/cobble beds, boulders or ledges of weathered rock, or continuous, relatively hard competent rock. Diamond core procedures would be necessary to assess the character and apparent strength of materials below refusal.

Drill refusal occurred in the form of sampler and/or auger refusal at many of the testing locations, with the shallowest depths in the southern portion of the eastern building. Based on the presence of weathered rock fragments and general observation of drilling conditions, these refusal depths may be interpreted as weathered to intact bedrock for planning purposes.

4.3 Groundwater Conditions

Groundwater was only encountered in borings B-3, B-5 and B-6 at depths ranging from about 5.5 feet to 7.3 feet below current grades, corresponding to elevations of 199.9 to 206.7 ft. Free groundwater was not observed in the other test borings within the development area at the time of investigation.

In general, groundwater within these soils tends to concentrate within discontinuous sandy seams and near the till/bedrock interface. We also note that dense glacial till deposits may exhibit very slow infiltration and recharge rates. Therefore, groundwater may be present within these soils but not observed as free water within boreholes (or excavations) until several hours after the hole is opened.

Groundwater levels are subject to seasonal and weather-related variations. Groundwater measurements made at different times and different locations may be significantly different than the measurements taken as part of this investigation.

5. Design Recommendations

5.1 Foundation Design

Native silty and gravelly sands (glacial till) or compacted Structural Fill are suitable for support of the proposed buildings on conventional shallow foundations. Historic fills, if encountered at bearing grade, are unsuitable for support of building foundations and should be removed and replaced with Structural Fill, or alternatively, crushed stone underlain by geotextile. We caution that site soils will be susceptible to moisture disturbance, so protection of exposed subgrades will be critical. In this regard, we recommend that all foundation subgrades be protected soon after exposure with a course of 6 inches of crushed stone underlain by a separation geotextile fabric. This will serve to protect subgrades and improve expediency of foundation construction.

We recommend that all footing subgrades be evaluated by a GEI representative prior to placement of the crushed stone. The maximum allowable bearing pressures for the design of footings are:

Table 1: Allowable Bearing Pressure

Bearing Stratum	Net Allowable Bearing Pressure
Crushed Stone over Structural Fill or Native Sands (Glacial Till)	4,000 lb/ft^2

An allowable coefficient of friction of 0.50 between the footings and bearing material may be assumed for design.

Minimum individual column footing and wall footing widths should be at least 36 and 18 inches, respectively. Exterior footings should bear at least 3½ feet below the finished grade for frost protection. Interior footings should be founded at least 18 inches below the bottom of the floor slab.

There is slight potential that a portion of the eastern building foundations will be on rock, as referenced to boring B-1. Exterior footings founded on sound rock, if encountered, will have no frost depth requirement. We expect design of rock-bearing footings would be driven by sliding, overturning, and/or uplift concerns. Minimum embedment by Connecticut Building Code is 12 inches below finished grade.

Where rock within exterior foundation excavations cannot be removed with conventional equipment, we recommend assuming a minimum embedment depth of 2 feet below finished

grade for exterior foundations. Where rock is broken or highly weathered and can be removed, we recommend extending the footings to bear 3½ feet below the adjacent exterior grade for frost protection.

5.2 Settlement

Assuming soil subgrades are prepared as recommended herein, we estimate settlement due to building loads will be up to 1 inch, and differential settlement will be ½ inch or less. Most settlements due to wall and column loads should occur during construction or soon after load placement.

5.3 Seismic Design

The most recent edition of the Connecticut Building Code was released in 2022. This edition mirrors the 2021 International Building Code, with exception of the revisions and supplemental information provided by state building officials.

Based on the criteria of Building Code Section 1613.2.2 and the SPT N-values measured on site, we recommend the use of Site Class C for seismic design. The Site Class was used in conjunction with the seismic hazard (S_S, S_1) for this location to determine spectral design values, as follows:

Table 2: Seismic Design Values

2022 Connecticut Building Code	
Site Class	C
S_S	0.210 g
S_1	0.054 g
S_{DS}	0.182 g
S_{D1}	0.054 g
PGA_M	0.153 g
Seismic Design Category (Risk Category I, II, or III)	B

We calculated the spectral response parameters for the site using general procedures outlined in Building Code Section 1613.2. Peak ground acceleration (PGA_M) is adjusted for Site Class effects, per ASCE 7-10 Section 11.8.3.

The seismic design factors given above correspond to **Seismic Design Category B** for Risk Category I, II, or III structures

The soils below the foundation level at this site are not considered susceptible to liquefaction.

5.4 Pavement Design

New pavement subgrades are expected to consist of native silty and gravelly sand (glacial till) or Structural Fill consisting of on-site soils. The on-site soils can be considered moderately frost susceptible, due to elevated silt fines content. As noted below, we recommend that a minimum 12-inch processed aggregate base/subbase course be placed below all pavements to account for potential frost heave and allow for sufficient drainage. Pavement subgrades should be prepared in accordance with Section 6.1.

The tenant parking area may be designed with light-duty pavements, while those areas expected to receive repeated truck traffic, such as dumpster pads, should be designed as a rigid pavement section. We recommend the following pavement sections for these areas:

Light-Duty Parking Area
3.0 inches bituminous concrete
- 1.5 inches wearing course (CTDOT Form 818 Class 2 or Superpave HMA S0.375)
- 1.5 inches binder course (CTDOT Form 818 Class 1 or Superpave HMA S0.5)

12.0 inches of processed aggregate base (CTDOT Form 819 M05.01)

Heavy-Duty Rigid Concrete Section
6.0 inches of 4,000-psi jointed concrete (CTDOT M.03.01 Portland Cement)
12.0 inches of processed aggregate base (CTDOT Form 819 M05.01)

Recommended pavement sections are based on AASHTO Guide for Design of Pavement Structures (1993) and ACI 330R. Pavement materials should conform with and be placed in accordance with the *Connecticut Department of Transportation (CTDOT) Standard Specifications for Road, Bridges, and Incidental Construction (Form 818), 2020.* CTDOT-compliant reclaimed miscellaneous aggregate with a loss on abrasion of less than 50 percent may be used as base course for pavements.

Rigid pavement sections should be designed and constructed in accordance with appropriate American Concrete Institute (ACI) recommendations and with the applicable specifications of the CTDOT Standard Specifications. All joints should also be sealed with a flexible fuel resistant sealer to minimize surface water infiltration into the prepared base.

According to AASHTO design guidelines, the recommended pavement sections shown above are suitable for a 20-year design life. However, pavement maintenance such as sealing

of cracks and localized patching due to normal weathering should be expected within the first 5 to 10 years of life.

5.5 Site Slopes

We recommend that all earthen cut and fill slopes on the project be constructed at grades no steeper than 2H:1V. Suitable erosion protection should be established as quickly as possible following construction of slopes.

6. Construction Considerations

6.1 Subgrade Preparation

6.1.1 General

Site preparation should include the removal of all unsuitable surface materials within the building and new pavement footprints. This should include surface vegetation, topsoil, material stockpiles, and any otherwise unstable surface or subsurface soils. Soft, wet, loose, or otherwise un-suitable soils should be removed and replaced, or potentially re-compacted in-place.

Where not removed in the normal course of work, the existing crushed concrete surface may be left in place below the proposed pavement sections and building pad, subject to its performance during proofrolling as discussed below.

6.1.2 Demolition

All existing structures should be removed in their entirety from within the building footprints and the area backfilled with compacted Structural Fill to finished grade. Where existing structures fall at least 10 feet from the exterior line of building footings, below-grade portions of these structures may remain in place. However, where this occurs below new pavements, below-grade structural features should be cut off at least 2 feet below the pavement base course, to reduce the potential for a hard spot developing.

Existing utilities to remain in use should be rerouted around the proposed building footprint. If not removed, any pipes over 3 inches in diameter should be filled with flowable fill or grout. Otherwise, these pipes may serve as conduits for subsurface erosion resulting in formation of voids below foundations or floor slabs. Where existing utilities are left in place and plugged in the building footprint, it may be necessary to undercut poorly compacted backfill to provide adequate support for footings or slabs.

6.1.3 Removal and Replacement of Historic Fill

Historic fills under the southern portion of the western building footprint, and possibly other locations on the site, should be removed in their entirety where beneath building and paved areas and placed back in a controlled fashion, as follows:

1. Conduct a series of test pits within the expected historic fill area (near borings B-5 and B-6) to depths of up to 8 feet, to delineate the extent and thickness of historic fills to be removed.
2. Excavate all surficial materials (vegetation, topsoil, etc.) and historic fills to a firm natural inorganic subgrade.

3. Absent the existing topsoil, historic fill soils similar to those encountered in the borings will be generally suitable to re-use as Structural Fill to backfill the excavation.
4. Place Structural Fill to planned subgrade elevation in controlled, compacted lifts. An initial bridging lift of granular fill up to 18 inches in thickness, or an initial "working platform" of stone, may be used if the subgrade is saturated, to facilitate equipment movement and placement of subsequent fill lifts.

Following stabilization of the subgrade as recommended above, construction of pavements, and buildings may be completed using conventional means.

6.1.4 Pavements

Following the required stripping, excavation to rough grade, and before placing new fill to achieve design grades, the resulting subgrade should be firm, stable, and unyielding. Stabilization, where required, may consist of removing unsuitable material and replacement with compacted structural fill, or where unsuitable soils are relatively thin, drying and compacting in place.

From the results of this investigation, we expect the existing surface materials in the rear storage area (crushed concrete), where left in place under the proposed pavement areas, to be generally suitable for structural support after proof-rolling as described below. However, as they have been extensively disturbed, the character of these materials could be variable and some undercutting and/or stabilization in place should be expected.

Soil subgrades should be proof-rolled with at least four (4) passes of a minimum 10-ton vibratory roller in open areas, or a 1-ton vibratory roller or large plate compactor, such as Wacker DPU4545 or equivalent, in trenches. Proof-rolling in close proximity to groundwater, if encountered, may need to be accomplished without vibratory action to reduce the potential for disturbance to the subgrade. Final bearing surfaces should be free of standing water, frost, and loose soil.

6.1.5 Foundations

The proposed structures may be supported on conventional shallow foundations bearing on a subgrade consisting of native sands or compacted Structural Fill. Historic fills, if encountered at bearing grade, are unsuitable for support of building foundations and should be removed and replaced with Structural Fill, or alternatively, crushed stone underlain by geotextile.

Bearing surfaces should be free of standing water, frost, and loose soil before placement of reinforcing steel and concrete. All foundation subgrades be protected soon after exposure with a course of 6 inches of crushed stone underlain by a separation geotextile fabric.

We recommend that a GEI representative observe the final preparation of all subgrades prior to footing construction.

6.2 Excavation and Dewatering

Excavations will primarily be in soil and can be accomplished with conventional earthmoving equipment. Excavations should be sloped or shored in accordance with the local, state, and federal regulations, including Occupational Safety and Health Agency (OSHA 29 CFR Part 1926) excavation trench safety standards.

There is a slight risk for rock excavation if deep trenches are planned near where relatively shallow auger refusals were noted by this investigation. Thus, we recommend that a rock excavation line item be included in the bid documents.

Groundwater intrusion should be expected for excavations deeper than about 4 to 5 feet below current grade when left open for extended periods or during wet seasonal patterns. Dewatering for foundation and utility construction, where required, can likely be accomplished with filtered sumps and pumps located outside the excavations.

In addition, site relief is very low, and maintaining proper site drainage during initial grading may become difficult unless measures to control surface water are put in place before grading starts and maintained throughout.

6.3 Freezing Conditions

The soils at the site are frost susceptible. Therefore, if construction is performed during freezing weather, special precautions will be required to prevent the subgrade soils from freezing. Freezing of the soil beneath the foundation during construction may result in subsequent settlement of the structure.

All subgrades should be free of frost before placement of concrete. Frost-susceptible soils that have frozen should be removed and replaced with compacted Structural Fill. The footing and the soil adjacent to the footing should be insulated until they are backfilled. Soil placed as fill should be free of frost, as should the ground on which it is placed.

If slabs-on-grade or footings are built and left exposed during the winter, precautions should be taken to prevent freezing of the underlying soil.

6.4 Backfilling and Compaction

Recommended specifications for gradation and compaction of backfill soils are provided in the attached recommended Material Specifications. We understand grade-raise fills will be mined from on-site sources wherever possible.

Most site soils excavated as part of earthwork activities can likely be re-used on site as Structural Fill or Ordinary Fill, provided they do not contain oversize, organic, or otherwise deleterious material, are stable under the weight of construction equipment and can meet the appropriate compaction requirements. We caution that some native materials with elevated silt fines content will be difficult to work if they become wet and may require long drying times to obtain the required compaction. As such, careful moisture control will be required to achieve satisfactory compaction. Means and methods such as sealing subgrades when rain is forecast, compacting on the day after placement, removing excessively wet soils, and limiting stockpile time should be implemented.

Cobbles and boulders in excess of 6-inches in diameter should be screened out of the native glacial till or crushed to an acceptable size before being incorporated into site Structural Fill.

Historic fills, if and where encountered, if granular in nature and containing inert debris not more than 3 inches in size at less than about 15 percent proportion by weight, can be considered suitable for re-use as Structural Fill or Ordinary Fill.

Subject to review during construction, the existing crushed concrete surface can likely be re-used within the project, as desired, for grade-raise Structural Fill or, potentially, as base course for new pavements.

Soils to be used as fill imported from off-site should also meet the attached gradation requirements. Fill placed within the building limits, within a 3-foot-wide zone outside foundation walls, and under all pavements and slabs should meet the compaction requirements for Structural Fill. Backfill placed in areas that will not support structural or paved elements should meet the compaction requirements for Ordinary Fill. Proposed borrow materials that fall slightly outside of these specifications may also be suitable for use, subject to review and approval by GEI.

7. Closure

7.1 Follow-on Services

We recommend that GEI be kept on the project through the final design and construction phases for the following services:

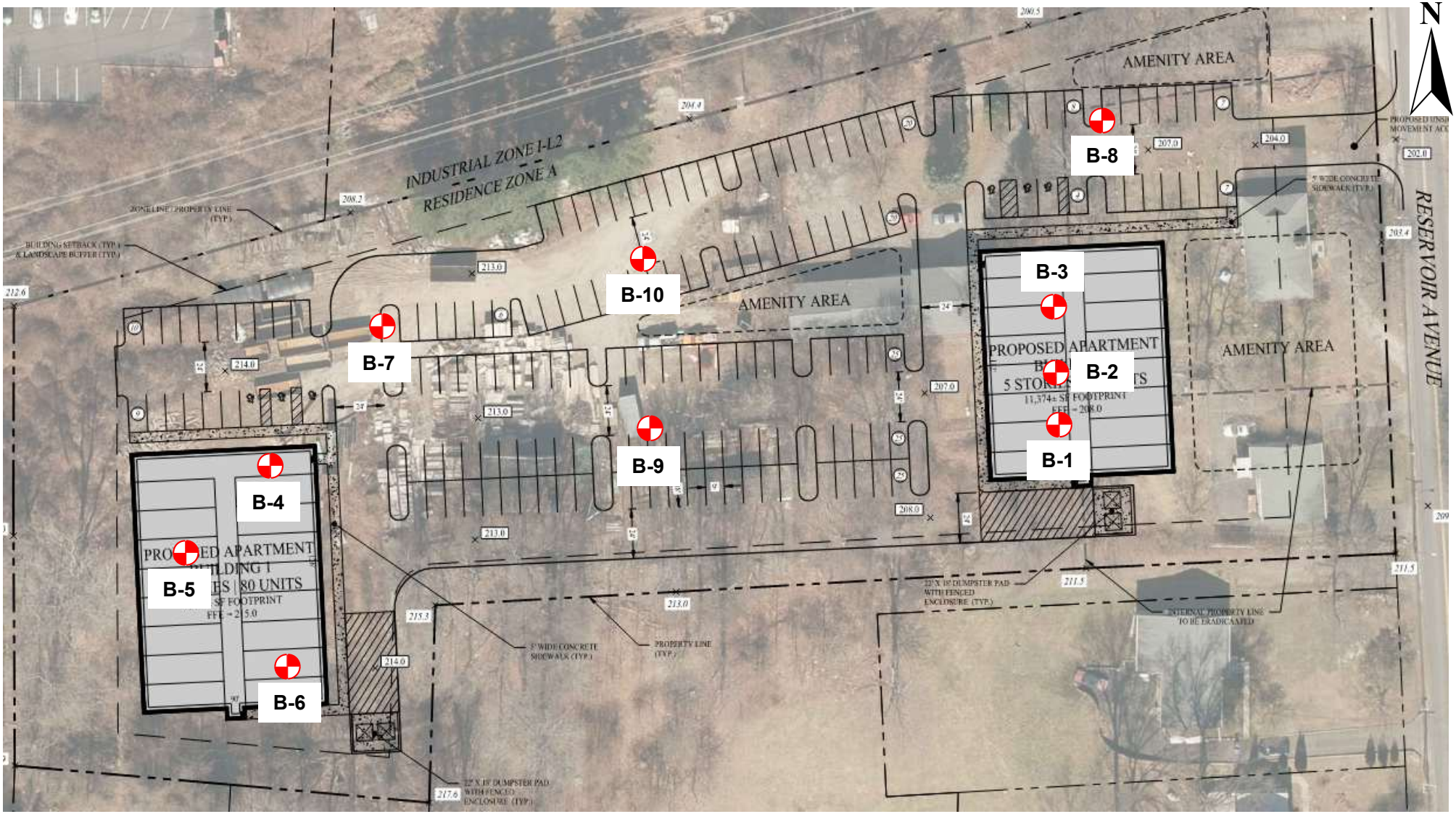
- Review geotechnical-related contractor submittals and assist in developing responses to questions from the contractor (i.e. RFI's).
- Provide periodic site visits during construction to view subgrades and consult on geotechnical-related issues that occur.

7.2 Limitations

This report was prepared for the use of the project team, exclusively. Our recommendations are based on the project information provided to us at the time of this report and may require modification if there are any changes in the nature, design, or location of the proposed building. We cannot accept responsibility for designs based on our recommendations unless we are engaged to review the final plans and specifications to determine whether any changes in the project affect the validity of our recommendations, and whether our recommendations have been properly implemented in the design.

Our professional services for this project have been performed in accordance with generally accepted engineering practices. No warranty, expressed or implied, is made.

Figures



LEGEND

APPROXIMATE TEST BORING LOCATION

SOURCE:

CONCEPT PLAN, SOLLI ENGINEERING, 06/11/25

GEI Consultants

TEST LOCATION PLAN
2135, 2145, 2155 RESERVOIR AVENUE
TRUMBULL, CT

GEI PROJECT NO: **2503632**

FIGURE NO.
1

Appendix A

Boring Logs

BORING INFORMATION

LOCATION: See Plan
GROUND SURFACE EL. (ft): 207
VERTICAL DATUM:
TOTAL DEPTH (ft): 5.5
LOGGED BY: B. Flood
DATE START/END: 7/8/2025 - 7/8/2025
DRILLING COMPANY: General Borings, Inc.
DRILLER NAME: T. McGovern
RIG TYPE:

BORING

B-1

DRILLING INFORMATION

HAMMER TYPE: Automatic
AUGER I.D./O.D.: 3.25 inch / NA
DRILLING METHOD: Hollow Stem Auger
CASING I.D./O.D.: NA/ NA
DRILL ROD O.D.: NM
CORE BARREL TYPE: N/A
CORE BARREL I.D./O.D. NA / NA
WATER LEVEL DEPTHS (ft): Free groundwater not encountered

ABBREVIATIONS:
Pen. = Penetration Length
Rec. = Recovery Length
RQD = Rock Quality Designation = Length of Sound Cores>4 in / Pen.,%
WOR = Weight of Rods
WOH = Weight of Hammer
S = Split Spoon Sample
C = Core Sample
U = Undisturbed Sample
SC = Sonic Core
DP = Direct Push Sample
HSA = Hollow-Stem Auger
Qp = Pocket Penetrometer Strength
Sv = Pocket Torvane Shear Strength
LL = Liquid Limit
PI = Plasticity Index
PID = Photoionization Detector
I.D./O.D. = Inside Diameter/Outside Diameter
NA, NM = Not Applicable, Not Measured
Blows per 6 in.: 140-lb hammer falling 30 inches to drive a 2-inch-O.D. split spoon sampler.

Elev. (ft)	Depth (ft)	Sample Information: Sample No.	Sample Information: Depth (ft)	Sample Information: Pen./ Rec. (in)	Sample Information: Blows per 6 in. or RQD	Drilling Remarks/ Field Test Data	Layer Name	Soil and Rock Description
		S1	0 to 2	24/17	1-3-5-7		SILTY SAND	S1A (0-11"): Topsoil, organic fibers. S1B (11-17"): SILTY SAND (SM); ~80% F-C sand, ~15% NP fines, ~5% F- gravel, yellowish-brown, dry.
		S2	2 to 4	24/20	20-24-32-27		GRAVELLY SAND	S2: SILTY SAND WITH GRAVEL (SM); 52.3% F-C sand, 24.7% F-C gravel, 23.0% NP fines, yellowish-brown, moist. Cobble fragments.
		S3	4 to 4.3	3/1	50/3"	Rig chattering at 4 ft.		S3: Weathered rock fragments in sampler, reddish.
	5							Auger refusal. Backfilled with drill cuttings.
200								
	10							
	15							
190								

NOTES:

PROJECT NAME: 2135, 2145, 2155 Reservoir Aven
CITY/STATE: Trumbull, Connecticut
GEI PROJECT NUMBER: 2503632

GEI Consultants

GEI WOBURN STD 1-LOCATION-LAYER NAME RESERVOIR AVENUE GINT.GPJ GEI DATA TEMPLATE 2013.GDT 8/5/25

BORING INFORMATION

LOCATION: See Plan
GROUND SURFACE EL. (ft): 207
VERTICAL DATUM:
TOTAL DEPTH (ft): 8.3
LOGGED BY: B. Flood
DATE START/END: 7/7/2025 - 7/7/2025
DRILLING COMPANY: General Borings, Inc.
DRILLER NAME: T. McGovern
RIG TYPE:

BORING

B-2

DRILLING INFORMATION

HAMMER TYPE: Automatic
AUGER I.D./O.D.: 3.25 inch / NA
DRILLING METHOD: Hollow Stem Auger
CASING I.D./O.D.: NA/ NA
DRILL ROD O.D.: NM
CORE BARREL TYPE: N/A
CORE BARREL I.D./O.D. NA / NA
WATER LEVEL DEPTHS (ft): Free groundwater not encountered

ABBREVIATIONS:
Pen. = Penetration Length
Rec. = Recovery Length
RQD = Rock Quality Designation = Length of Sound Cores>4 in / Pen.,%
WOR = Weight of Rods
WOH = Weight of Hammer
S = Split Spoon Sample
C = Core Sample
U = Undisturbed Sample
SC = Sonic Core
DP = Direct Push Sample
HSA = Hollow-Stem Auger
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LL = Liquid Limit
PI = Plasticity Index
PID = Photoionization Detector
I.D./O.D. = Inside Diameter/Outside Diameter
NA, NM = Not Applicable, Not Measured
Blows per 6 in.: 140-lb hammer falling 30 inches to drive a 2-inch-O.D. split spoon sampler.

Elev. (ft)	Depth (ft)	Sample Information: Sample No.	Sample Information: Depth (ft)	Sample Information: Pen./ Rec. (in)	Sample Information: Blows per 6 in. or RQD	Drilling Remarks/ Field Test Data	Layer Name	Soil and Rock Description
		S1	0 to 2	24/16	2-3-4-5		SILTY SAND	S1A (0-4"): Topsoil, organic fibers. S1B (4-16"): SILTY SAND (SM); ~80% F-C sand, ~15% NP fines, ~5% F- gravel, yellowish-brown, moist.
		S2	2 to 4	24/16	4-10-15-19		GRAVELLY SAND	S2: WIDELY GRADED SAND WITH SILT (SW-SM); ~80% F-C sand, ~10% NP fines, ~10% F-C gravel, yellowish-brown, moist.
	5	S3	4 to 6	24/5	16-25-24-35	Rig chattering at 4.5 ft.		S3: WIDELY GRADED SAND WITH GRAVEL (SW); ~75% F-C sand, ~20% F-C gravel, ~5% NP fines, yellowish-brown, moist.
200		S4	6 to 7.3	15/12	49-44-50/3"	Rig chattering from 6 to 8 ft.		S4: WIDELY GRADED SAND WITH GRAVEL (SW); ~60% F-C sand, ~35% F-C gravel, ~5% NP fines, moist. Cobble fragments.
		S5	8 to 8.3	4/3	50/4"	Auger refusal at 8 ft.		S5: Weathered rock in sampler. Sampler refusal. Backfilled with drill cuttings.
	10							
	15							
190								

NOTES:

PROJECT NAME: 2135, 2145, 2155 Reservoir Aven
CITY/STATE: Trumbull, Connecticut
GEI PROJECT NUMBER: 2503632

GEI Consultants

GEI WOBURN STD 1-LOCATION-LAYER NAME RESERVOIR AVENUE GINT.GPJ GEI DATA TEMPLATE 2013.GDT 8/5/25

BORING INFORMATION

LOCATION: See Plan
GROUND SURFACE EL. (ft): 206
VERTICAL DATUM:
TOTAL DEPTH (ft): 17.0
LOGGED BY: B. Flood
DATE START/END: 7/7/2025 - 7/7/2025
DRILLING COMPANY: General Borings, Inc.
DRILLER NAME: T. McGovern
RIG TYPE:

BORING
B-3
PAGE 1 of 1

DRILLING INFORMATION

HAMMER TYPE: Automatic
AUGER I.D./O.D.: 3.25 inch / NA
DRILLING METHOD: Hollow Stem Auger
CASING I.D./O.D.: NA/ NA
DRILL ROD O.D.: NM
CORE BARREL TYPE: N/A
CORE BARREL I.D./O.D. NA / NA
WATER LEVEL DEPTHS (ft): ▼ 6.1 7/7/2025

ABBREVIATIONS:
Pen. = Penetration Length
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WOR = Weight of Rods
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S = Split Spoon Sample
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Elev. (ft)	Depth (ft)	Sample Information: Sample No.	Sample Information: Depth (ft)	Sample Information: Pen./ Rec. (in)	Sample Information: Blows per 6 in. or RQD	Drilling Remarks/ Field Test Data	Layer Name	Soil and Rock Description
		S1	0 to 2	24/20	1-3-5-8		SILTY SAND	S1: SILTY SAND (SM); ~80% F-C sand, ~15% NP fines, ~5% F-gravel, yellowish-brown, dry.
		S2	2 to 4	24/15	13-18-18-19	Rig chattering at 3 ft.	GRAVELLY SAND	S2: WIDELY GRADED SAND WITH SILT (SW-SM); ~80% F-C sand, ~10% NP fines, ~10% F- gravel, yellowish-brown, dry. Cobble fragments.
	5	S3	4 to 6	24/17	13-18-25-26			S3: WIDELY GRADED SAND WITH GRAVEL (SW); ~70% F-C sand, ~25% F-C gravel, ~5% NP fines, yellowish-brown, moist.
200		S4	6 to 8	24/12	22-33-39-49	Rig chattering at 6 ft. Rig chattering at 7 ft.		S4A (0-8"): SILTY SAND (SM); ~70% F-C sand, ~20% NP fines, ~10% F-C gravel, dark-brown, dry. S4B (8-12"): WIDELY GRADED SAND WITH GRAVEL (SW); ~75% F-C sand, ~20% F-C gravel, ~5% NP fines, dark-brown. Cobble fragments.
	10	S5	10 to 12	24/14	21-25-34-50			S5: WIDELY GRADED SAND WITH GRAVEL (SW); ~50% F-C sand, ~45% F-C gravel, ~5% NP fines, grayish-brown. Cobble fragments, wet at bottom 6 inches.
	15	S6	15 to 17	24/16	27-31-29-25			S6: WIDELY GRADED SAND WITH SILT (SW-SM); ~85% F-C sand, ~10% NP fines, ~5% F- gravel, grayish-brown, wet.
190								Planned depth. Backfilled with drill cuttings.

NOTES:

PROJECT NAME: 2135, 2145, 2155 Reservoir Aven
CITY/STATE: Trumbull, Connecticut
GEI PROJECT NUMBER: 2503632

GEI Consultants

GEI WOBURN STD 1-LOCATION-LAYER NAME RESERVOIR AVENUE GINT.GPJ GEI DATA TEMPLATE 2013.GDT 8/5/25

BORING INFORMATION

LOCATION: See Plan
GROUND SURFACE EL. (ft): 212
VERTICAL DATUM:
TOTAL DEPTH (ft): 12.6
LOGGED BY: B. Flood
DATE START/END: 7/10/2025 - 7/10/2025
DRILLING COMPANY: General Borings, Inc.
DRILLER NAME: T. McGovern
RIG TYPE:

BORING

B-4

DRILLING INFORMATION

HAMMER TYPE: Automatic
AUGER I.D./O.D.: 2.25 inch / NA
DRILLING METHOD: Hollow Stem Auger
CASING I.D./O.D.: NA/ NA
DRILL ROD O.D.: NM
CORE BARREL TYPE: N/A
CORE BARREL I.D./O.D. NA / NA
WATER LEVEL DEPTHS (ft): Free groundwater not encountered

ABBREVIATIONS:
Pen. = Penetration Length
Rec. = Recovery Length
RQD = Rock Quality Designation = Length of Sound Cores>4 in / Pen.,%
WOR = Weight of Rods
WOH = Weight of Hammer
S = Split Spoon Sample
C = Core Sample
U = Undisturbed Sample
SC = Sonic Core
DP = Direct Push Sample
HSA = Hollow-Stem Auger
Qp = Pocket Penetrometer Strength
Sv = Pocket Torvane Shear Strength
LL = Liquid Limit
PI = Plasticity Index
PID = Photoionization Detector
I.D./O.D. = Inside Diameter/Outside Diameter
NA, NM = Not Applicable, Not Measured
Blows per 6 in.: 140-lb hammer falling 30 inches to drive a 2-inch-O.D. split spoon sampler.

Elev. (ft)	Depth (ft)	Sample Information: Sample No.	Sample Information: Depth (ft)	Sample Information: Pen./ Rec. (in)	Sample Information: Blows per 6 in. or RQD	Drilling Remarks/ Field Test Data	Layer Name	Soil and Rock Description
210	0	S1	0 to 2	24/8	6-8-9-5		GRAVELLY SAND	S1: WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~70% F-C sand, ~20% F-C gravel, ~10% NP fines, brown, dry.
		S2	2 to 4	24/19	8-6-15-20			S2: WIDELY GRADED SAND WITH GRAVEL (SW); ~80% F-C sand, ~15% F-C gravel, ~5% NP fines, yellowish-brown, moist.
	5	S3	4 to 6	24/15	16-16-17-18			S3: Similar to S2. Cobble fragments.
		S4	6 to 8	24/15	17-18-17-21			S4: Similar to S2. Cobble fragments.
						Rig chattering at 8 ft.		
	10	S5	10 to 11.4	17/6	11-21-50/5"	Rig chatteirng at 10 ft.		S5: WIDELY GRADED SAND WITH GRAVEL (SW); ~65% F-C sand, ~30% F-C gravel, ~5% NP fines, grayish-brown, wet. Weathered rock at tip of sampler.
200								
		S6	12.5 to 12.6	1/0	50/1"	Auger refusal at 12.5 ft.		S6: Poor sample recovery. Weathered rock at tip of sampler. Sampler refusal. Backfilled with drill cuttings.
	15							

NOTES:

PROJECT NAME: 2135, 2145, 2155 Reservoir Aven
CITY/STATE: Trumbull, Connecticut
GEI PROJECT NUMBER: 2503632

GEI Consultants

GEI WOBURN STD 1-LOCATION-LAYER NAME RESERVOIR AVENUE GINT.GPJ GEI DATA TEMPLATE 2013.GDT 8/5/25

BORING INFORMATION

LOCATION: See Plan
GROUND SURFACE EL. (ft): 214
VERTICAL DATUM:
TOTAL DEPTH (ft): 16.3
LOGGED BY: B. Flood
DATE START/END: 7/10/2025 - 7/10/2025
DRILLING COMPANY: General Borings, Inc.
DRILLER NAME: T. McGovern
RIG TYPE:

BORING

B-5

DRILLING INFORMATION

HAMMER TYPE: Automatic
AUGER I.D./O.D.: 2.25 inch / NA
DRILLING METHOD: Hollow Stem Auger
WATER LEVEL DEPTHS (ft): ▼ 7.3 7/10/2025
CASING I.D./O.D.: NA/ NA
DRILL ROD O.D.: NM
CORE BARREL TYPE: N/A
CORE BARREL I.D./O.D. NA / NA

ABBREVIATIONS:
Pen. = Penetration Length
Rec. = Recovery Length
RQD = Rock Quality Designation = Length of Sound Cores>4 in / Pen.,%
WOR = Weight of Rods
WOH = Weight of Hammer
S = Split Spoon Sample
C = Core Sample
U = Undisturbed Sample
SC = Sonic Core
DP = Direct Push Sample
HSA = Hollow-Stem Auger
Qp = Pocket Penetrometer Strength
Sv = Pocket Torvane Shear Strength
LL = Liquid Limit
PI = Plasticity Index
PID = Photoionization Detector
I.D./O.D. = Inside Diameter/Outside Diameter
NA, NM = Not Applicable, Not Measured
Blows per 6 in.: 140-lb hammer falling 30 inches to drive a 2-inch-O.D. split spoon sampler.

Elev. (ft)	Depth (ft)	Sample Information: Sample No.	Sample Information: Depth (ft)	Sample Information: Pen./ Rec. (in)	Sample Information: Blows per 6 in. or RQD	Drilling Remarks/ Field Test Data	Layer Name	Soil and Rock Description
		S1	0 to 2	24/10	7-24-11-7		FILL	S1A (0-6"): Topsoil, organic fibers. S1B (6-10"): WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~60% F-C sand, ~30% F-C gravel, ~10% NP fines, grayish-brown, dry. Cobble fragments. FILL
		S2	2 to 4	24/15	2-3-6-12		GRAVELLY SAND	S2: SILTY SAND WITH GRAVEL (SM); 56.6% F-C sand, 36.7% NP fines, 6.7% F- gravel, yellowish-brown, moist.
210	5	S3	4 to 6	24/15	6-12-15-22			S3: WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~60% F-C sand, ~30% F-C gravel, ~10% NP fines, grayish-brown, moist.
		S4	6 to 8	24/17	18-20-19-14			S4: WIDELY GRADED SAND WITH GRAVEL (SW); ~65% F-C sand, ~25% F-C gravel, ~5% NP fines, yellowish-brown, moist. Cobble fragments.
	10	S5	10 to 12	24/14	14-12-13-18			S5: WIDELY GRADED SAND (SW); ~85% F-C sand, ~10% F-gravel, ~5% NP fines, yellowish-brown to reddish-brown.
200						Small boulder at 12.5 ft.		
	15	S6	15 to 16.3	15/10	23-28-50/3"			S6: WIDELY GRADED SAND WITH GRAVEL (SW); ~60% F-C sand, ~35% F-C gravel, ~5% NP fines, yellowish-brown, moist. Cobble fragments.
								Sampler refusal. Backfilled with drill cuttings.

NOTES:

PROJECT NAME: 2135, 2145, 2155 Reservoir Aven
CITY/STATE: Trumbull, Connecticut
GEI PROJECT NUMBER: 2503632

GEI Consultants

GEI WOBURN STD 1-LOCATION-LAYER NAME RESERVOIR AVENUE GINT.GPJ GEI DATA TEMPLATE 2013.GDT 8/5/25

BORING INFORMATION

LOCATION: See Plan
GROUND SURFACE EL. (ft): 216
VERTICAL DATUM:
TOTAL DEPTH (ft): 13.0
LOGGED BY: B. Flood
DATE START/END: 7/10/2025 - 7/10/2025
DRILLING COMPANY: General Borings, Inc.
DRILLER NAME: T. McGovern
RIG TYPE:

BORING
B-6

DRILLING INFORMATION

HAMMER TYPE: Automatic
AUGER I.D./O.D.: 2.25 inch / NA
DRILLING METHOD: Hollow Stem Auger
CASING I.D./O.D.: NA/ NA
DRILL ROD O.D.: NM
CORE BARREL TYPE: N/A
CORE BARREL I.D./O.D. NA / NA
WATER LEVEL DEPTHS (ft): ▼ 5.5 7/10/2025

ABBREVIATIONS:
Pen. = Penetration Length
Rec. = Recovery Length
RQD = Rock Quality Designation = Length of Sound Cores>4 in / Pen.,%
WOR = Weight of Rods
WOH = Weight of Hammer
S = Split Spoon Sample
C = Core Sample
U = Undisturbed Sample
SC = Sonic Core
DP = Direct Push Sample
HSA = Hollow-Stem Auger
Qp = Pocket Penetrometer Strength
Sv = Pocket Torvane Shear Strength
LL = Liquid Limit
PI = Plasticity Index
PID = Photoionization Detector
I.D./O.D. = Inside Diameter/Outside Diameter
NA, NM = Not Applicable, Not Measured
Blows per 6 in.: 140-lb hammer falling 30 inches to drive a 2-inch-O.D. split spoon sampler.

Elev. (ft)	Depth (ft)	Sample Information: Sample No.	Sample Information: Depth (ft)	Sample Information: Pen./ Rec. (in)	Sample Information: Blows per 6 in. or RQD	Drilling Remarks/ Field Test Data	Layer Name	Soil and Rock Description
		S1	0 to 2	24/13	2-4-5-5		FILL	S1: SILTY SAND WITH GRAVEL (SM); ~65% F-C sand, ~20% NP fines, ~15% F-C gravel, brown, moist. Brick fragments.
		S2	2 to 4	24/7	3-4-11-3			S2: SILTY SAND WITH GRAVEL (SM); 61.6% F-C sand, 30.6% NP fines, 7.8% F-C gravel, brown, moist.
	5	S3	4 to 6	24/13	2-2-3-2			S3: WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~60% F-C sand, ~25% F-C gravel, ~15% NP fines, grayish-brown, moist.
210		S4	6 to 8	24/15	1-1-1-2			S4A (0-6"): WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~70% F-C sand, ~20% F-C gravel, ~10% NP fines, brown.
							SILT	S4B (6-15"): SANDY SILT (ML); ~60% NP fines, ~35% F-C sand, ~5% F- gravel, brown, moist to wet.
		S5	8 to 10	24/10	4-8-12-13		GRAVELLY SAND	S5: WIDELY GRADED SAND WITH GRAVEL (SW); ~70% F-C sand, ~25% F-C gravel, ~5% NP fines, grayish-brown, wet.
	10	S6	10 to 12	24	6-9-23-13			S6A (0-9"): WIDELY GRADED SAND (SW); ~85% F-C sand, ~10% F- gravel, ~5% NP fines, grayish-brown. S6B (9-15"): WIDELY GRADED SAND (SW); ~95% F-C sand, ~5% NP fines, black.
		S7	13 to 13	0/0	50/0"	Rig chattering at 12.5 ft. Auger refusal at 13 ft.		S7: No sample recovery. Sampler refusal. Backfilled with drill cuttings.
	15							
200								

NOTES:

PROJECT NAME: 2135, 2145, 2155 Reservoir Aven
CITY/STATE: Trumbull, Connecticut
GEI PROJECT NUMBER: 2503632

GEI Consultants

GEI WOBURN STD 1-LOCATION-LAYER NAME RESERVOIR AVENUE GINT.GPJ GEI DATA TEMPLATE 2013.GDT 8/5/25

BORING INFORMATION

LOCATION: See Plan
GROUND SURFACE EL. (ft): 209
VERTICAL DATUM:
TOTAL DEPTH (ft): 6.0
LOGGED BY: B. Flood
DATE START/END: 7/9/2025 - 7/9/2025
DRILLING COMPANY: General Borings, Inc.
DRILLER NAME: T. McGovern
RIG TYPE:

BORING

B-7

DRILLING INFORMATION

HAMMER TYPE: N/A
AUGER I.D./O.D.: 2.25 inch / NA
DRILLING METHOD: Hollow Stem Auger
CASING I.D./O.D.: NA/ NA
DRILL ROD O.D.: NM
CORE BARREL TYPE: N/A
CORE BARREL I.D./O.D. NA / NA
WATER LEVEL DEPTHS (ft): Free groundwater not encountered

ABBREVIATIONS:
Pen. = Penetration Length
Rec. = Recovery Length
RQD = Rock Quality Designation = Length of Sound Cores>4 in / Pen.,%
WOR = Weight of Rods
WOH = Weight of Hammer
S = Split Spoon Sample
C = Core Sample
U = Undisturbed Sample
SC = Sonic Core
DP = Direct Push Sample
HSA = Hollow-Stem Auger
Qp = Pocket Penetrometer Strength
Sv = Pocket Torvane Shear Strength
LL = Liquid Limit
PI = Plasticity Index
PID = Photoionization Detector
I.D./O.D. = Inside Diameter/Outside Diameter
NA, NM = Not Applicable, Not Measured
Blows per 6 in.: 140-lb hammer falling 30 inches to drive a 2-inch-O.D. split spoon sampler.

Elev. (ft)	Depth (ft)	Sample Information: Sample No.	Depth (ft)	Pen./ Rec. (in)	Blows per 6 in. or RQD	Drilling Remarks/ Field Test Data	Layer Name	Soil and Rock Description
		1	0 to 2	24			PVMT	GP1A (0-12"): Crushed concrete
							SAND	GP1B (12-24"): SILTY SAND (SM); ~80% F-C sand, ~15% NP fines, ~5% F-C gravel, grayish-brown.
		2	2 to 4	24		Rig chattering at 3 ft.	GRAVELLY SAND	GP2: WIDELY GRADED GRAVEL (GW); ~85% F-C gravel, ~10% F-C sand, ~5% NP fines, yellowish-brown.
	5	3	4 to 6	24				GP3: WIDELY GRADED SAND WITH GRAVEL (SW); ~70% F-C sand, ~25% F-C gravel, ~5% NP fines, yellowish-brown, moist. Cobble fragments.
200	10							Planned depth. Backfilled with drill cuttings.
	15							

NOTES:

PROJECT NAME: 2135, 2145, 2155 Reservoir Aven
CITY/STATE: Trumbull, Connecticut
GEI PROJECT NUMBER: 2503632

GEI Consultants

GEI WOBURN STD 1-LOCATION-LAYER NAME RESERVOIR AVENUE GINT.GPJ GEI DATA TEMPLATE 2013.GDT 8/5/25

BORING INFORMATION

LOCATION: See Plan
GROUND SURFACE EL. (ft): 201.5
VERTICAL DATUM:
TOTAL DEPTH (ft): 6.0
LOGGED BY: B. Flood
DATE START/END: 7/9/2025 - 7/9/2025
DRILLING COMPANY: General Borings, Inc.
DRILLER NAME: T. McGovern
RIG TYPE:

BORING

B-8

DRILLING INFORMATION

HAMMER TYPE: N/A
AUGER I.D./O.D.: 3.25 inch / NA
DRILLING METHOD: Hollow Stem Auger
CASING I.D./O.D.: NA/ NA
DRILL ROD O.D.: NM
CORE BARREL TYPE: N/A
CORE BARREL I.D./O.D. NA / NA
WATER LEVEL DEPTHS (ft): Free groundwater not encountered

ABBREVIATIONS:
Pen. = Penetration Length
Rec. = Recovery Length
RQD = Rock Quality Designation = Length of Sound Cores>4 in / Pen.,%
WOR = Weight of Rods
WOH = Weight of Hammer
S = Split Spoon Sample
C = Core Sample
U = Undisturbed Sample
SC = Sonic Core
DP = Direct Push Sample
HSA = Hollow-Stem Auger
Qp = Pocket Penetrometer Strength
Sv = Pocket Torvane Shear Strength
LL = Liquid Limit
PI = Plasticity Index
PID = Photoionization Detector
I.D./O.D. = Inside Diameter/Outside Diameter
NA, NM = Not Applicable, Not Measured
Blows per 6 in.: 140-lb hammer falling 30 inches to drive a 2-inch-O.D. split spoon sampler.

Elev. (ft)	Depth (ft)	Sample Information: Sample No.	Sample Information: Depth (ft)	Sample Information: Pen./ Rec. (in)	Sample Information: Blows per 6 in. or RQD	Drilling Remarks/ Field Test Data	Layer Name	Soil and Rock Description
200		1	0 to 2	24			GRAVELLY SAND	GP1A (0-8"): Topsoil, organic fibers. GP1B (8-24"): WIDELY GRADED SAND WITH GRAVEL (SW); ~80% F-C sand, ~15% F-C gravel, ~5% NP fines.
		2	2 to 4	24				GP2: WIDELY GRADED SAND WITH SILT (SW-SM); ~80% F-C sand, ~10% NP fines, ~10% F-C gravel, yellowish-brown.
						Rig chattering at 3 ft.		
	5	3	4 to 6	24				GP3: Similar to GP2. Moist.
						Rig chattering at 5 ft.		
								Planned depth. Backfilled with drill cuttings.
	10							
190								
	15							

NOTES:

PROJECT NAME: 2135, 2145, 2155 Reservoir Aven
CITY/STATE: Trumbull, Connecticut
GEI PROJECT NUMBER: 2503632

GEI Consultants

GEI WOBURN STD 1-LOCATION-LAYER NAME RESERVOIR AVENUE GINT.GPJ GEI DATA TEMPLATE 2013.GDT 8/5/25

BORING INFORMATION

LOCATION: See Plan
GROUND SURFACE EL. (ft): 208
VERTICAL DATUM:
TOTAL DEPTH (ft): 8.0
LOGGED BY: B. Flood
DATE START/END: 7/9/2025 - 7/9/2025
DRILLING COMPANY: General Borings, Inc.
DRILLER NAME: T. McGovern
RIG TYPE:

BORING

B-9

DRILLING INFORMATION

HAMMER TYPE: Automatic
AUGER I.D./O.D.: 3.25 inch / NA
DRILLING METHOD: Hollow Stem Auger
CASING I.D./O.D.: NA/ NA
DRILL ROD O.D.: NM
CORE BARREL TYPE: N/A
CORE BARREL I.D./O.D. NA / NA
WATER LEVEL DEPTHS (ft): Free groundwater not encountered

ABBREVIATIONS:
Pen. = Penetration Length
Rec. = Recovery Length
RQD = Rock Quality Designation = Length of Sound Cores>4 in / Pen.,%
WOR = Weight of Rods
WOH = Weight of Hammer
S = Split Spoon Sample
C = Core Sample
U = Undisturbed Sample
SC = Sonic Core
DP = Direct Push Sample
HSA = Hollow-Stem Auger
Qp = Pocket Penetrometer Strength
Sv = Pocket Torvane Shear Strength
LL = Liquid Limit
PI = Plasticity Index
PID = Photoionization Detector
I.D./O.D. = Inside Diameter/Outside Diameter
NA, NM = Not Applicable, Not Measured
Blows per 6 in.: 140-lb hammer falling 30 inches to drive a 2-inch-O.D. split spoon sampler.

Elev. (ft)	Depth (ft)	Sample Information: Sample No.	Sample Information: Depth (ft)	Sample Information: Pen./ Rec. (in)	Sample Information: Blows per 6 in. or RQD	Drilling Remarks/ Field Test Data	Layer Name	Soil and Rock Description
		S1	0 to 2	24/20	11-12-13-16		GLACIAL TILL	S1A (0-11"): Crushed concrete S1B (11-20"): WIDELY GRADED SAND WITH GRAVEL (SW); ~70% F-C sand, ~25% F-C gravel, ~5% NP fines, yellowish-brown.
		S2	2 to 4	24/15	20-19-22-50/4"			S2: WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~70% F-C sand, ~20% F-C gravel, ~10% NP fines, yellowish-brown, moist.
	5	GP1	4 to 6	24		Rig chattering at 4 ft.		GP1: WIDELY GRADED SAND WITH GRAVEL (SW); ~70% F-C sand, ~25% F-C gravel, ~5% NP fines, yellowish-brown.
		GP2	6 to 8	24				GP2: Similar to GP1. Moist.
200								Planned depth. Backfilled with drill cuttings.
	10							
	15							
190								

NOTES:

PROJECT NAME: 2135, 2145, 2155 Reservoir Aven
CITY/STATE: Trumbull, Connecticut
GEI PROJECT NUMBER: 2503632

GEI Consultants

GEI WOBURN STD 1-LOCATION-LAYER NAME RESERVOIR AVENUE GINT.GPJ GEI DATA TEMPLATE 2013.GDT 8/5/25

BORING INFORMATION

LOCATION: See Plan
GROUND SURFACE EL. (ft): 205
VERTICAL DATUM:
TOTAL DEPTH (ft): 6.0
LOGGED BY: B. Flood
DATE START/END: 7/8/2025 - 7/8/2025
DRILLING COMPANY: General Borings, Inc.
DRILLER NAME: T. McGovern
RIG TYPE:

BORING
B-10
PAGE 1 of 1

DRILLING INFORMATION

HAMMER TYPE: N/A
AUGER I.D./O.D.: 3.25 inch / NA
DRILLING METHOD: Hollow Stem Auger
CASING I.D./O.D.: NA/ NA
DRILL ROD O.D.: NM
CORE BARREL TYPE: N/A
CORE BARREL I.D./O.D. NA / NA
WATER LEVEL DEPTHS (ft): Free groundwater not encountered

ABBREVIATIONS:
Pen. = Penetration Length
Rec. = Recovery Length
RQD = Rock Quality Designation = Length of Sound Cores>4 in / Pen.,%
WOR = Weight of Rods
WOH = Weight of Hammer
S = Split Spoon Sample
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SC = Sonic Core
DP = Direct Push Sample
HSA = Hollow-Stem Auger
Qp = Pocket Penetrometer Strength
Sv = Pocket Torvane Shear Strength
LL = Liquid Limit
PI = Plasticity Index
PID = Photoionization Detector
I.D./O.D. = Inside Diameter/Outside Diameter
NA, NM = Not Applicable, Not Measured
Blows per 6 in.: 140-lb hammer falling 30 inches to drive a 2-inch-O.D. split spoon sampler.

Elev. (ft)	Depth (ft)	Sample Information: Sample No.	Sample Information: Depth (ft)	Sample Information: Pen./ Rec. (in)	Sample Information: Blows per 6 in. or RQD	Drilling Remarks/ Field Test Data	Layer Name	Soil and Rock Description
		1	0 to 2	24			GRAVELLY SAND	GP1A (0-12"): Crushed concrete GP1A (12-24"): WIDELY GRADED SAND WITH GRAVEL (SW); ~80% F-C sand, ~15% F-C gravel, ~5% NP fines, yellowish-brown. GP2: Similar to 1-2 ft.
		2	2 to 4	24				
200	5	3	4 to 6	24				GP3: Similar to 1-2 ft.
	10							Planned depth. Backfilled with drill cuttings.
190	15							

NOTES:

PROJECT NAME: 2135, 2145, 2155 Reservoir Aven
CITY/STATE: Trumbull, Connecticut
GEI PROJECT NUMBER: 2503632

GEI Consultants

GEI WOBURN STD 1-LOCATION-LAYER NAME RESERVOIR AVENUE GINT.GPJ GEI DATA TEMPLATE 2013.GDT 8/5/25

Appendix B

Laboratory Test Results

Client:	GEI Consultants, Inc.				
Project:	Vessel - Trumbull				
Location:	Trumbull, CT			Project No:	GTX-321501
Boring ID:	---	Sample Type:	---	Tested By:	ajl
Sample ID:	---	Test Date:	07/31/25	Checked By:	ank
Depth :	---	Test Id:	826290		

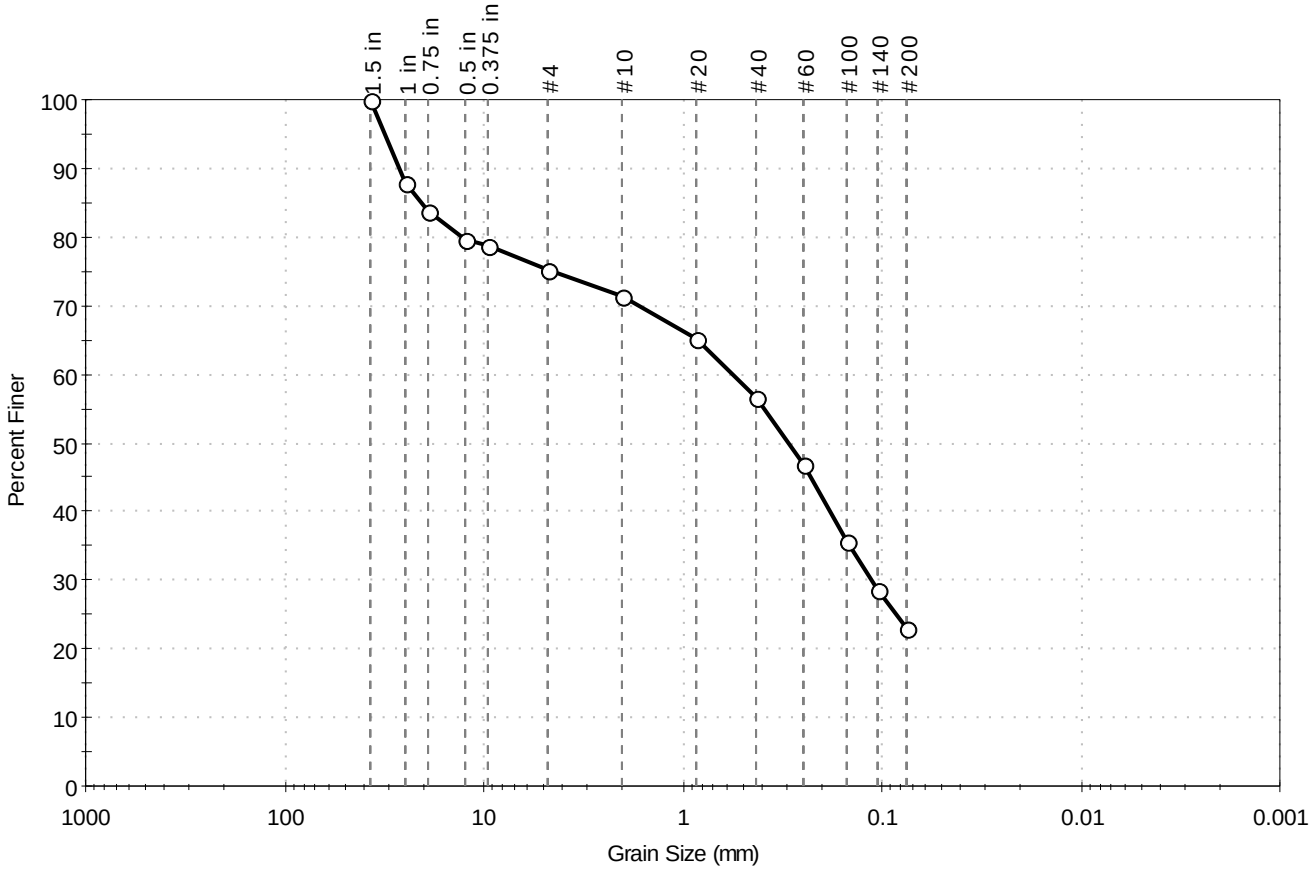
Moisture Content of Soil and Rock - ASTM D2216

Boring ID	Sample ID	Depth	Description	Moisture Content, %
B-1	S2	2-4	Moist, light olive brown silty sand with gravel	8.3
B-5	S2	2-4	Moist, olive brown silty sand	12.8
B-6	S2	2-4	Moist, olive brown silty sand	15.1

Notes: Temperature of Drying : 110° Celsius

Client:	GEI Consultants, Inc.				
Project:	Vessel - Trumbull				
Location:	Trumbull, CT			Project No:	GTX-321501
Boring ID:	B-1	Sample Type:	Jar	Tested By:	ajl
Sample ID:	S2	Test Date:	08/01/25	Checked By:	ank
Depth :	2-4	Test Id:	826285		
Test Comment:	---				
Visual Description:	Moist, light olive brown silty sand with gravel				
Sample Comment:	---				

Particle Size Analysis - ASTM D6913



%Cobble	%Gravel	%Sand	%Silt & Clay Size
---	24.7	52.3	23.0

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
1.5 in	37.50	100		
1 in	25.00	88		
0.75 in	19.00	84		
0.5 in	12.50	80		
0.375 in	9.50	79		
#4	4.75	75		
#10	2.00	71		
#20	0.85	65		
#40	0.42	57		
#60	0.25	47		
#100	0.15	36		
#140	0.11	29		
#200	0.075	23		

Coefficients

D_{85} = 20.4636 mm	D_{30} = 0.1134 mm
D_{60} = 0.5601 mm	D_{15} = N/A
D_{50} = 0.2979 mm	D_{10} = N/A
C_u = N/A	C_c = N/A

Classification

ASTM N/A

AASHTO Silty Gravel and Sand (A-2-4 (0))

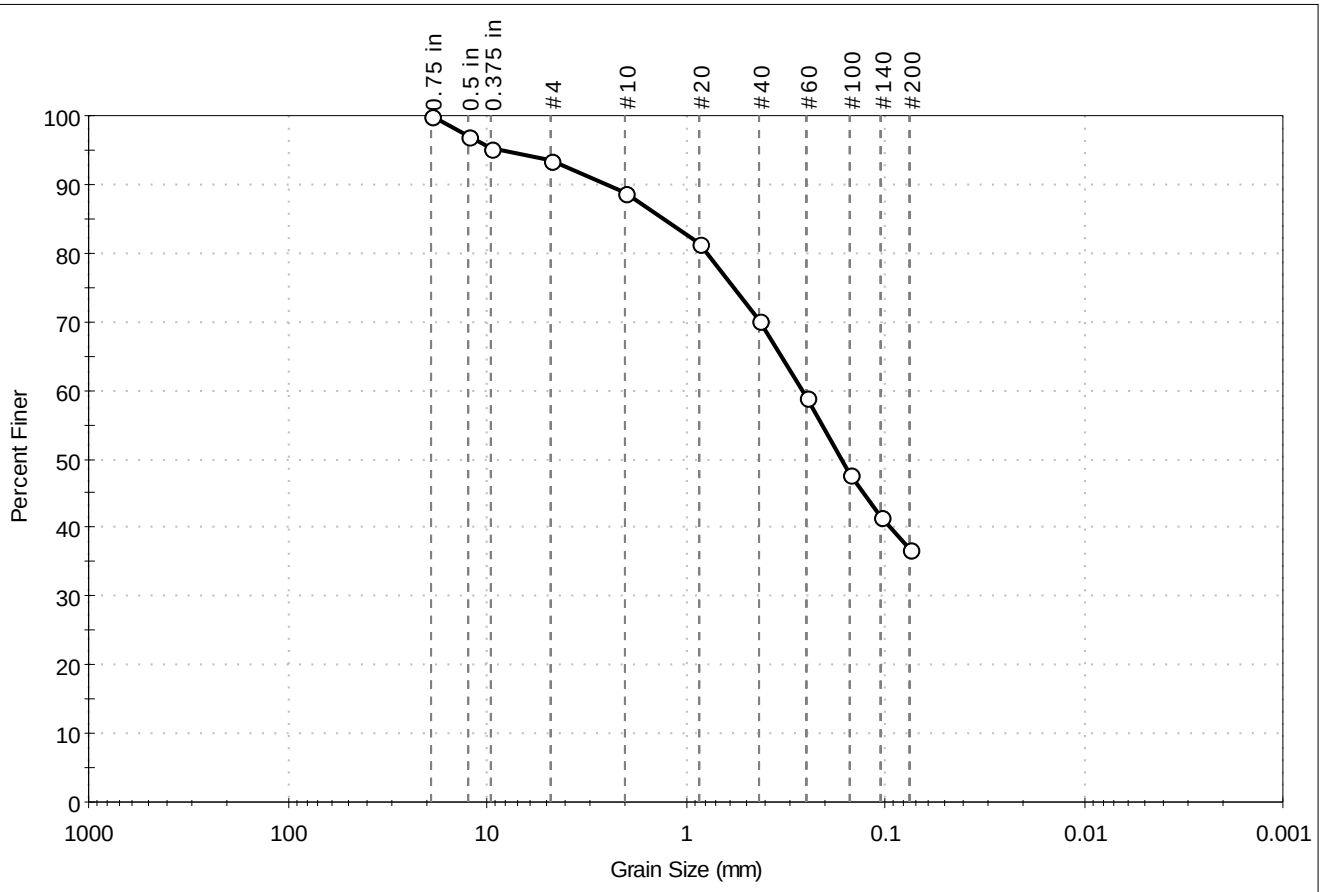
Sample / Test Description

Sand/Gravel Particle Shape : ANGULAR

Sand/Gravel Hardness : HARD

Client:	GEI Consultants, Inc.				
Project:	Vessel - Trumbull				
Location:	Trumbull, CT			Project No:	GTX-321501
Boring ID:	B-5	Sample Type:	Jar	Tested By:	ajl
Sample ID:	S2	Test Date:	08/01/25	Checked By:	ank
Depth :	2-4	Test Id:	826286		
Test Comment:	---				
Visual Description:	Moist, olive brown silty sand				
Sample Comment:	---				

Particle Size Analysis - ASTM D6913



%Cobble	%Gravel	%Sand	%Silt & Clay Size
---	6.7	56.6	36.7

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
0.75 in	19.00	100		
0.5 in	12.50	97		
0.375 in	9.50	95		
#4	4.75	93		
#10	2.00	89		
#20	0.85	81		
#40	0.42	70		
#60	0.25	59		
#100	0.15	48		
#140	0.11	42		
#200	0.075	37		

Coefficients

D_{85} = 1.2869 mm D_{30} = N/A

D_{60} = 0.2637 mm D_{15} = N/A

D_{50} = 0.1659 mm D_{10} = N/A

C_u = N/A C_c = N/A

Classification

ASTM N/A

AASHTO Silty Soils (A-4 (0))

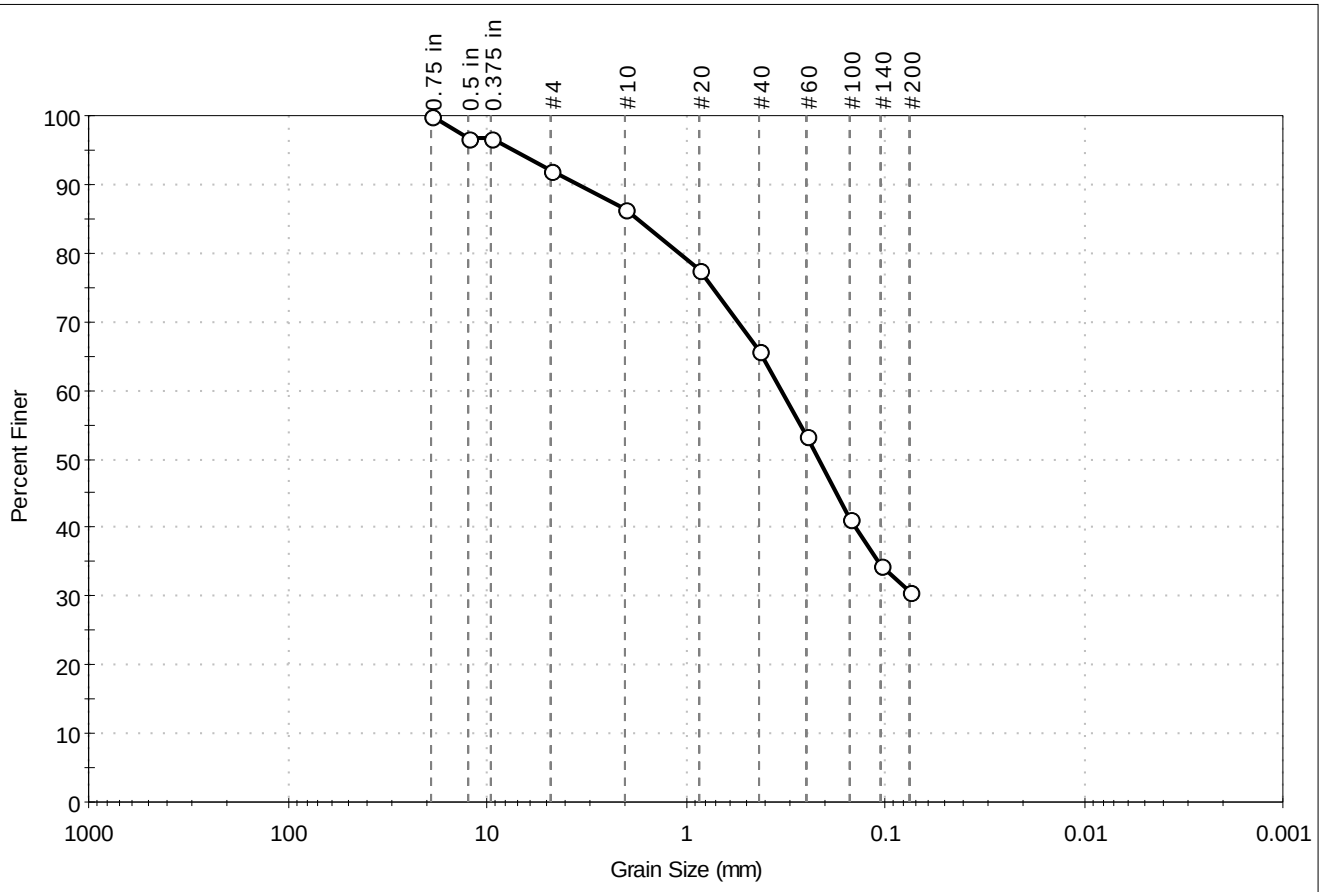
Sample / Test Description

Sand/Gravel Particle Shape : ANGULAR

Sand/Gravel Hardness : HARD

Client:	GEI Consultants, Inc.				
Project:	Vessel - Trumbull				
Location:	Trumbull, CT			Project No:	GTX-321501
Boring ID:	B-6	Sample Type:	Jar	Tested By:	ajl
Sample ID:	S2	Test Date:	08/01/25	Checked By:	ank
Depth :	2-4	Test Id:	826287		
Test Comment:	---				
Visual Description:	Moist, olive brown silty sand				
Sample Comment:	---				

Particle Size Analysis - ASTM D6913



% Cobble	% Gravel	% Sand	% Silt & Clay Size
---	7.8	61.6	30.6

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
0.75 in	19.00	100		
0.5 in	12.50	97		
0.375 in	9.50	97		
#4	4.75	92		
#10	2.00	86		
#20	0.85	78		
#40	0.42	66		
#60	0.25	53		
#100	0.15	41		
#140	0.11	35		
#200	0.075	31		

Coefficients

D_{85} = 1.7384 mm D_{30} = N/A

D_{60} = 0.3321 mm D_{15} = N/A

D_{50} = 0.2168 mm D_{10} = N/A

C_u = N/A C_c = N/A

Classification

ASTM N/A

AASHTO Silty Gravel and Sand (A-2-4 (0))

Sample / Test Description

Sand/Gravel Particle Shape : ANGULAR

Sand/Gravel Hardness : HARD

Appendix C

Recommended Material Specifications

Recommended Material Specifications
2135-2155 Reservoir Avenue
Trumbull, CT

Per the Geotechnical Report, most site soils excavated as part of earthwork activities can likely be re-used on site as Structural Fill or Ordinary Fill, provided they do not contain oversize, organic, or otherwise deleterious material, are stable under the weight of construction equipment and can meet the appropriate compaction requirements. We caution that some native materials with elevated silt fines content will be difficult to work if they become wet and may require long drying times to obtain the required compaction. As such, careful moisture control will be required to achieve satisfactory compaction. Means and methods such as sealing subgrades when rain is forecast, compacting on the day after placement, removing excessively wet soils, and limiting stockpile time should be implemented.

Cobbles and boulders in excess of 6-inches in diameter should be screened out of the native glacial till or crushed to an acceptable size before being incorporated into site Structural Fill. Historic fills, if and where encountered, if granular in nature and containing inert debris not more than 3 inches in size at less than about 15 percent proportion by weight, can be considered suitable for re-use as Structural Fill or Ordinary Fill.

Subject to review during construction, the existing crushed concrete surface can likely be re-used within the project, as desired, for grade-raise Structural Fill or, potentially, as base course for new pavements.

Soils to be used as fill imported from off-site should also meet the below gradation requirements. Fill placed within the building limits, within a 3-foot-wide zone outside foundation walls, and under all pavements and slabs should meet the compaction requirements for Structural Fill. Backfill placed in areas that will not support structural or paved elements should meet the compaction requirements for Ordinary Fill. Proposed borrow materials that fall slightly outside of these specifications may also be suitable for use, subject to review and approval by GEI.

Structural Fill

Imported Structural Fill should consist of hard, durable sand and gravel. It should be free of clay, organic matter, surface coatings, and other deleterious materials. Soil finer than the No. 200 sieve (the “fines”) should be non-plastic. Structural Fill shall meet the following gradation requirements:

Sieve Size	Percent Passing by Weight
4 inches	100
1 - ½ inch	55 – 100
No. 4	35 – 85
No. 16	20 – 65
No. 50	5 – 40
No. 200 (fines)	0 – 10

Structural Fill should be compacted in maximum 12-inch-thick, loose lifts to at least 95 percent of the maximum dry density determined in accordance with ASTM D1557 (Modified AASHTO Compaction). The moisture content should be held to within +/- 3 percent of optimum moisture content (as determined by ASTM D1557).

Ordinary Fill

Ordinary fill should consist of hard, durable sand and gravel, free of clay, organic matter, surface coatings, and other deleterious materials. Soil finer than the No. 200 sieve (the "fines") should be nonplastic. Ordinary Fill shall meet the following gradation requirements:

Sieve Size	Percent Passing by Weight
6 inches	100
3 inches	80 – 100
No. 4	20 – 100
No. 200 (fines)	0 – 20

Ordinary fill should be compacted in maximum 12-inch-thick, loose lifts to at least 92 percent of the maximum dry density determined in accordance with ASTM D1557 (Modified AASHTO Compaction). The moisture content should be held to within +/- 3 percent of optimum moisture content (as determined by ASTM D1557).

Crushed Stone

Crushed Stone should consist of a ¾-inch size durable crushed rock or durable crushed gravel stone and shall conform to the requirements of the ConnDOT Form 819, Section M.01.01, No. 6. Crushed stone should be compacted with at least four passes of a vibratory compactor.

Geotextile Fabric

Geotextile fabric should be a non-woven fabric, consisting of Mirafi 140N or an approved equal product.

AQUARION Water Company
Stewards of the Environment™

203.445.7310 phone
800.732.9678 (toll free)

October 24, 2025

Luke Mauro
Solli Engineering LLC
501 Main Street, Suite 2A
Monroe, CT 06468

Re: Request for Water Service – 2135-2155 Reservoir Ave, Trumbull, Connecticut
Vessel Trumbull

Dear Mr. Mauro,

This letter confirms that Aquarion Water Company of Connecticut (Aquarion) has sufficient water supply to meet the following estimated residential water demand for the proposed development at the above referenced property.

- Average Day Demand: 10,050 gallons per day
- Maximum Day Demand: 20,100 gallons per day
- Hydrant Demand: 100 gallons per minute at 20 psi
- Fire Sprinkler Demand: 150 gallons per minute at 48 psi

This commitment does not include irrigation demands because no demand projections for irrigation were included in the application submitted to Aquarion. If you wish to include irrigation demands in your project, you will need to update your application and resubmit your Will Serve Letter request.

The attached fire flow test report indicates an available fire flow of approximately 3,085 gallons per minute at 20 psi in the water main in the street. Please note that fire flow tests are indicative of the available flow at a specific time. Available flow and pressures will vary throughout the day and year based on system demands, which may result in lower available flow and pressure. It is your engineer's responsibility to design accordingly to achieve the required flow and pressure while considering all the building demands and system demands.

This service commitment is valid for 12 months from the date of issuance. If your proposed project is not ready for water service (intended usage) within 12 months of this letter, then Aquarion's ability to serve your project will have to be re-evaluated.

While this letter serves as a service commitment, it is not an approval of how or when you can connect (tap) to our water main. You must complete the New Services Process, including obtaining additional approvals that are required, payment of required fees, etc. If you have any questions regarding this letter, please feel free to contact me at 203.362.3033. If you have questions regarding the new services process and next steps required to connect (tap) to our system, please contact our New Services Team at newservices@aquarionwater.com.

Very truly yours,
Aquarion Water Company

Melissa M. Ahrens-Viquez
Planning Engineer

cc: New Services, File
Attachment: Fire flow test at hydrant 133 dated 09/15/2025
Will Serve Letter Application dated 09/23/2025

Reference Page _____

Aquarion Water Company Fire Flow Test

Test Location: TRUMBULL, CT

Test Date: 09/15/2025 Test Time: 04:40 PM

Flow Hydrant: 0133 Location:Reservoir Ave#2250

Flow Hydrant Parameters:

Main Size:	12"
Pipe/Nozzle Diameter:	4.0 Hose Monster Big Boy inches
Pito Pressure:	25 psi
PSI Before:	81 psi

Residual Hydrant: 0132 Location: Reservoir Ave#2105

Residual Hydrant Parameters:

PSI Before:	70 psi
Residual During Flow:	50 psi
PSI After:	70 psi
PSI Drop:	20 psi

Test Results:

GPM Available:	1,880
GPM @20 psi:	3,085

Test Performed By: JP@WILLB

NOTE: Static Pressure readings are actual, and test results are not corrected for elevation differential.

Test Method: Calibrated Orifice

Disclaimer: This data represents system conditions on the date and time that the test was performed. System conditions may vary significantly throughout the year. The design of new water service installations and the identification and gathering of all necessary data is the sole responsibility of the Developer or his representative. In all instances, the water service designer should apply engineering judgment to ensure proper design. Aquarion Water Company does not guarantee the accuracy of this data.

AQUARION Water Company

NEW SERVICES DEMAND FORM APPLICATION

General Information:

Today's Date: 09/23/2025

Applicant Name: Luke Mauro Company Name: Solli Engineering LLC

Email Address: Luke@Sollillc.com Phone Number: (203) 880-5455

Mailing Address: 501 Main Street, Suite 2A, Monroe, CT 06468

Property Owner Name: Vessel Technologies (contract purchaser) c/o Josh Levy

Email Address: jlevy@myvessel.com Phone Number: (646) 531-2126

Project Name: Vessel Trumbull

Building Address: Existing Addresses: 2135, 2145, 2155 Reservoir Avenue; New Address for 60 Unit Building TBD

City: Trumbull State: CT Zip Code: 06611

Type of Project to be supplied by this connection (check all that apply):

☑ Residential ☐ Commercial ☐ Industrial ☐ Public Authority

Site Elevations:

High: 217 ft. Low: 198 ft. Datum Elevation (USGS): NAVD88

Service Information:

Fire Demand:

Size: 6 in Peak Flow: 150 GPM Residual Pressure: 48 psi

Length of Proposed Fire Service Line: 165 ft

Fire Hydrant Demand (Only if hydrant is required): Quantity: 1 Flow: 100 GPM

Domestic Demand:

Size: 3 in Peak Flow: 26 GPM Residual Pressure: 48 psi

Length of Proposed Domestic Service Line: 130 ft

Continue to Next Page

Plumbing and Fire Sprinkler (MEP or Sprinkler/Fire Designer must complete form & sign):

Printed Name: Delbert Smith Jr. License # 18073

Title: Principal Phone Number: 860-632-1682

Signature: Delbert Smith Jr. Digitally signed by Delbert Smith Jr. DN: C=US, E=dsmith@ceseng.com, O=Consulting Engineering Services Inc, CN=Delbert Smith Jr. Date: 2025.09.23 10:17:29-04'00' Date: 9/23/25

DOMESTIC DEMAND WORKSHEET

☐ Check here if the existing domestic service is adequate for the proposed project, if not, fill in information below.

Commercial/Industrial/Public Authority Use:

Commercial Building Size: _____SF

Average Day Demand: _____gal/day

Maximum Day Demand: _____gal/day

Maximum Day Demand = Average Day Demand x2

and/or

Residential Use:

Number of Units: 60

Number of Studios: 0 One Bedroom: 46 (61 People) Two Bedrooms: 14 (33 People)

3 Bedrooms: 0 Total Number of Bedrooms: 74 (94 People)

Average Day Demand: 4,700 (94 ppl @ 50 GPD) gal/day

Maximum Day Demand: 9,400 gal/day

Maximum Day Demand = Average Day Demand x2

Building will have all tank toilets

IRRIGATION DEMAND WORKSHEET

☑ Check here if this request does not include irrigation

Initial Planting Period:

Estimated irrigation demand for the initial planting period: _____ gal/day

How long to you anticipate watering at this frequency? _____(days/weeks/months)

Continue to Next Page

Irrigation Demand:

Total Irrigation Request (not including the initial planting period): _____ gal/day

Size: _____in Peak Flow: _____GPM

Length of Proposed Irrigation Service Line: _____ft

Fill out the below table to describe your irrigation system:

Plant Type or Feature	Landscaped Area (sq. ft) per Sprinkler Type		
	Rotor	Spray	Drip
Grass			
Shrubs			
Groundcover			
Trees			
Total			

Provide a copy of your irrigation plan if available

Irrigation Designer's Information (If available):

Printed Name: _____ License #_____

Title: _____ Phone Number: _____

Signature: _____ Date: _____

By signing below, you are acknowledging that all above information is accurate, up to date, and if there is an existing tap not being severed at the time of the new tap, a $4,000 deposit will be provided to Aquarion until a tap shutoff is completed.

Applicant's Signature: _____ Date: 9/23/2025

This application will not be processed unless it is completely filled out, signed, and a copy of utility site plans including elevation contours is provided. If you are requesting a fire service, a fire flow test may be required.

This application will be processed upon receipt of this information to verify the proper size of your service. It is the responsibility of the fire sprinkler designer to assure the adequate flow and pressure is available to meet the proposed fire demand. Please provide the information requested above and return the completed form to the attention of Aquarion Water Company, New Services Department, 600 Lindley Street, Mail-Stop 800, Bridgeport, CT 06606-5991 or can be emailed to New Services at newservices@aquarionwater.com. Thank you!

AQUARION Water Company

NEW SERVICES DEMAND FORM APPLICATION

General Information:

Today's Date: 09/23/2025

Applicant Name: Luke Mauro Company Name: Solli Engineering LLC

Email Address: Luke@Sollillc.com Phone Number: (203) 880-5455

Mailing Address: 501 Main Street, Suite 2A, Monroe, CT 06468

Property Owner Name: Vessel Technologies (contract purchaser) c/o Josh Levy

Email Address: jlevy@myvessel.com Phone Number: (646) 531-2126

Project Name: Vessel Trumbull

Building Address: Existing Addresses: 2135, 2145, 2155 Reservoir Avenue; New Address for 70 Unit Building TBD

City: Trumbull State: CT Zip Code: 06611

Type of Project to be supplied by this connection (check all that apply):

☑ Residential ☐ Commercial ☐ Industrial ☐ Public Authority

Site Elevations:

High: 217 ft. Low: 198 ft. Datum Elevation (USGS): NAVD88

Service Information:

Fire Demand:

Size: 6 in Peak Flow: 150 GPM Residual Pressure: 48 psi

Length of Proposed Fire Service Line: 650 ft

Fire Hydrant Demand (Only if hydrant is required): Quantity: 1 Flow: 100 GPM

Domestic Demand:

Size: 3 in Peak Flow: 30 GPM Residual Pressure: 48 psi

Length of Proposed Domestic Service Line: 615 ft

Continue to Next Page

Plumbing and Fire Sprinkler (MEP or Sprinkler/Fire Designer must complete form & sign):

Printed Name: Delbert Smith Jr. License # 18073

Title: Principal Phone Number: 860-632-1682

Signature: Delbert Smith Jr. Digitally signed by Delbert Smith Jr. DN: C=US, E=dsmith@ceseng.com, O=Consulting Engineering Services Inc, CN=Delbert Smith Jr. Date: 2025.09.23 10:18:13-04'00' Date: 9/23/25

DOMESTIC DEMAND WORKSHEET

☐ Check here if the existing domestic service is adequate for the proposed project, if not, fill in information below.

Commercial/Industrial/Public Authority Use:

Commercial Building Size: _____SF

Average Day Demand: _____gal/day

Maximum Day Demand: _____gal/day

Maximum Day Demand = Average Day Demand x2

and/or

Residential Use:

Number of Units: 70

Number of Studios: 0 One Bedroom: 56 (74 People) Two Bedrooms: 14 (33 People)

3 Bedrooms: 0 Total Number of Bedrooms: 84 (107 People)

Average Day Demand: 5350 (107 ppl @ 50 GPD) gal/day

Maximum Day Demand: 10,700 gal/day

Maximum Day Demand = Average Day Demand x2

Building will have all tank toilets

IRRIGATION DEMAND WORKSHEET

☑ Check here if this request does not include irrigation

Initial Planting Period:

Estimated irrigation demand for the initial planting period: _____ gal/day

How long to you anticipate watering at this frequency? _____(days/weeks/months)

Continue to Next Page

Irrigation Demand:

Total Irrigation Request (not including the initial planting period): _____ gal/day

Size: _____in Peak Flow: _____GPM

Length of Proposed Irrigation Service Line: _____ft

Fill out the below table to describe your irrigation system:

Plant Type or Feature	Landscaped Area (sq. ft) per Sprinkler Type		
	Rotor	Spray	Drip
Grass			
Shrubs			
Groundcover			
Trees			
Total			

Provide a copy of your irrigation plan if available

Irrigation Designer's Information (If available):

Printed Name: _____ License #_____

Title: _____ Phone Number: _____

Signature: _____ Date: _____

By signing below, you are acknowledging that all above information is accurate, up to date, and if there is an existing tap not being severed at the time of the new tap, a $4,000 deposit will be provided to Aquarion until a tap shutoff is completed.

Applicant's Signature: _____ Date: 9/23/2025

This application will not be processed unless it is completely filled out, signed, and a copy of utility site plans including elevation contours is provided. If you are requesting a fire service, a fire flow test may be required.

This application will be processed upon receipt of this information to verify the proper size of your service. It is the responsibility of the fire sprinkler designer to assure the adequate flow and pressure is available to meet the proposed fire demand. Please provide the information requested above and return the completed form to the attention of Aquarion Water Company, New Services Department, 600 Lindley Street, Mail-Stop 800, Bridgeport, CT 06606-5991 or can be emailed to New Services at newservices@aquarionwater.com. Thank you!