

TOWN OF YORKTOWN PLANNING BOARD

Albert. A. Capellini Community and Cultural Center, 1974 Commerce Street, Yorktown Heights, New York 10598, Phone: (914) 962-6565, Fax: (914) 962-3986

PUBLIC MEETING AGENDA YORKTOWN TOWN HALL BOARD ROOM 363 Underhill Avenue, Yorktown Heights, NY 10598

**December 12, 2022
7:00 PM**

1. **Correspondence**
2. **Meeting Minutes – November 28, 2022**

WORK SESSION

3. **79 Somerston Road - #WP-BSWPPP-038-22
Town Board Referral**

Location: 17.10-1-3; 79 Somerston Road

Contact: David A. Goessl, PE

Description: Application for a wetland permit and stormwater management permit to install an in-ground swimming pool and related stormwater management system in a wetland buffer.

4. **SDML Realty, LLC
Discussion Site Plan**

Location: 35.08-1-11, 14, 15, 23; 3735 Crompond Road (Route 202)

Contact: Reuben Buck

Description: Proposed 3,069 square foot Dunkin with drive thru, parking, and associated site improvements.

5. **Lowes Pad C
Discussion Site Plan**

Location: 26.19-1-1; 3180 Crompond Road (Route 202)

Contact: Site Design Consultants

Description: Proposed 2,383 square foot Chipotle with drive-thru, parking, and associated site improvements.

6. **Toll Brothers at Catherine Street
Town Board Referral**

Location: 35.12-1-2 & 35.08-1-45; 2302 & 2448 Catherine Street

Contact: Zarin & Steinmetz

Description: Submitted petition requesting rezone of the parcels from RSP-3 & R1-40 to RSP-2 to facilitate Toll Brothers redevelopment proposal to construct a 118-unit townhouse community with clubhouse and pool for 55+ active adults.

7. **670 East Main Street
Pre-Preliminary Discussion**

Location: 16.08-1-34; 670 East Main Street, Jefferson Valley

Contact: Hahn Engineering

Description: Proposed to remove existing single family house and detached garage and construct five two-story, three-bedroom townhouses and 15 parking spaces.

Last revised: December 9, 2022

Correspondence

DEC 9 2022

TOWN OF YORKTOWN



December 9, 2022

Rohit T. Aggarwala
Commissioner

Mr. Joseph C. Riina, P.E.
Site Design Consultants
251-F Underhill Avenue,
Yorktown Heights, NY- 10598

Via Email: jriina@sitedesignconsultants.com

Paul V. Rush, P.E.

Re: Proposed CVS Pharmacy - Stormwater Pollution Prevention Plan
3320 Crompond Road (NYS Rte.35/202)
Yorktown Heights, NY
Tax Map# 26.18-1-23, 25 & 26
Log # 2015-CNC-0144-SP.1

Deputy Commissioner
Bureau of Water Supply
prush@dep.nyc.gov

Dear Mr. Riina:

New York City Department of Environmental Protection (DEP) has reviewed your latest submission on the above referenced SWPPP. The following comments must be addressed satisfactorily prior to approval.

1. The response on the latest DEP's comment 1 is not fully accurate. The ground water elevation at TP-2 is at 305. The updated Section 1.13 of the SWPPP indicates the invert of the sand filter as 305 but the remainder of the report and plans shows the invert as 305.75 and therefore the groundwater is $\frac{3}{4}$ " lower than the sand filter invert based on TP-2. But the response given regarding groundwater found right at the bottom of the sand filter is not consistent with the soil testing witnessed nearby. The test pits 4, 5 & 6 in the immediate vicinity exhibited groundwater at 307.5, 310 and 306.25 respectively. Therefore, Section 1.13 of the SWPPP report should be revised to reflect this data also correctly to properly justify Technical Equivalence in this regard.
2. The underdrain detail shows 6" perforations but the call out on the drainage plan says 8" perforated pipe. Clarify whether the perforations on the 8" pipe is 6" or whether two 6" perforated pipes are tied to one 8" collector pipe as labelled in the sand filter detail. The details spelled out on the technical equivalence must be consistent with the details on the plans.
3. The sizing calculations for under drain sizing shows h2 as 304.88, please verify. Also, 'h2' used in the equation should be corrected.

465 Columbus Avenue
Valhalla, NY 10595
T: (845) 340-7800
F: (845) 334-7175

4. Please verify that all the drainage structures are legibly labelled on the drainage plan, C3.1. For E.g., the B4 and B5 between the previous submission and current submissions should be rechecked for consistency. Those are shown as swapped in this submission.
5. Include Jelly fish filter into the post construction maintenance schedule.

Should you have any questions regarding this letter, please call the undersigned at (914)749-5357 or mzachariah@dep.nyc.gov.

Sincerely,

Mariyam Zachariah

Mariyam Zachariah
Associate Project Manager
EOH Project Review Group
Regulatory & Engineering Programs

Cc: Town of Yorktown Planning Board, planning@yorktownny.org
Dan Ciarcia, dciarcia@yorktownny.org
James Nazaro, owner, jim@jinazaaro.com
Tony Giuliani, tgiuliani@phronesisengineering.com
Anthony Stancanelli, astancanelli@phronesisengineering.com

Site Design Consultants

Civil Engineers • Land Planners

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PLANNING DEPARTMENT

NOV 29 2022

November 28, 2022

TOWN OF YORKTOWN

Ms. Mariyam Zachariah
NYC DEP
465 Columbus Avenue
Valhalla, NY 10565

Re: Proposed CVS Pharmacy – Stormwater Pollution Prevention Plan
3320 Crompond Road
Yorktown Heights, NY
Tax Map # 26.18-1-23, 256, & 26
Log# 2015-CNC-0144-SP.1

Dear Mariyam:

Please find the following responses to your comments as per your letter dated September 30, 2022. In addition to those comments, we have clarified some labeling of drainage structures for ease of reading. Please find the following responses.

- In section 1.13 of the SWPPP we provide a discussion on technical equivalence for compliance with The NYS DEC SDM which requires in Section 6.4.2 a minimum 2 foot separation between the bottom of the filter to avoid influence on the treatment capability of the sand filter by groundwater. This is highlighted in green for you to easily identify.
- This information has been added to the detail for the sand filter. The updated detail is attached. We have also attached the updated Appendix 7 of the SWPPP with supporting calculations.
- In section 1.13 of the SWPPP we provide a discussion on technical equivalence for compliance with the use of porous concrete for compliance with the NYS DEC SDM. This is highlighted in green.
- Additional spot elevations have been added to sheet C 3.0 to show that all of the surface runoff generated at the entrance is fully captured. In addition, a trench drain is being proposed.
- The soil test results have been corrected. We are attaching the updated data sheets.
- We are attaching a full printout of the stage/storage Hydrocad report.
- In section 1.13 it is noted that Trib area B and Trib Area C provide treatment and RRv together. A has been added to the WQv table and in the RRv section of appendix 7 that the RRv for Trib area B is provided in Trib Area C. I.
- These have been labeled.
- This table has been added to sheet C 4.0.

251-F Underhill Avenue • Yorktown Heights, New York 10598

60 Walnut Grove Road • Ridgefield, Connecticut 06877

(914) 962-4488

(203) 431-9504

Fax (914) 962-7386



Additional information provided includes:

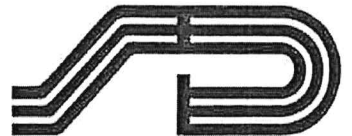
- On sheet C3.1 on the table showing the elevation of groundwater based on the soil tests, under the column "Inv. of nearby System" for each row, we have included the name of the nearby systems (i.e. infiltration chambers, Sandfilter, etc)
- On the bypass and detention chamber details for each inlet and outlet we have included the invert elevation and the upstream or downstream structure name.
- A description has been added in in section 1.13 on how the detention chambers function.
- In the sand filter sizing portion of appendix 7, a note has been added specifying that some of Trib area C is treated in the sand filter.

Please review our submission and contact us with any questions or comments. Thank you.

Yours Truly,

Joseph C. Riina, P.E.

JCR / jr / Enc. / sdc 18-78




TOWN OF YORKTOWN PLANNING BOARD

Albert A. Capellini Community and Cultural Center, 1974 Commerce Street, Yorktown Heights, New York 10598, Phone (914) 962-6565, Fax (914) 962-3986

To: Town Board
From: Planning Board
Date: December 5, 2022
Subject: 800 East Main Street Yorktown Development, LLC
SBL: 5.19-1-15

At its meeting on November 28, 2022, the Planning Board discussed the applicant's petition for a change of zone from the OB District to RSP-2 District. The Board had concerns regarding the single access to the site, views of the site from the surrounding area, traffic impacts, among other details. However, the Board felt a multi-family age restricted residential development potentially is a good reuse for the existing large vacant office campus. The Board recommends consulting and reviewing the Comprehensive Plan's recommendations relative to the proposed use of this site.

Respectfully submitted,


Robyn A. Steinberg, AICP, CPESC
Town Planner

cc: Janet Giris, Esq.

Christopher Taormina, RA
Chairman

Matthew Slater
Town Supervisor

TOWN OF YORKTOWN

ADVISORY BOARD ON ARCHITECTURE & COMMUNITY APPEARANCE (ABACA)

Albert A. Capellini Community and Cultural Center, 1974 Commerce Street, Yorktown Heights, New York 10598, Phone (914) 962-6565

DEC 9 2022

TOWN OF YORKTOWN

To: Diana Quast, Town Clerk *for the Town Board*
From: ABACA
Date: December 9, 2022
Subject: **Town Board Referral – AMS LLC - 800 E. Main Street; 5.19-1-15**
 Petition for zoning code and map amendments to rezone from OB-2 to RSP-2 for an active adult residential community development consisting of 250-units including a mix of rental and for-sale townhomes on a 35.53-acre parcel.

Documents Submitted and Reviewed:

| Title: | Produced By: |
|---|-------------------------|
| Town Board Referral dated 11/28/2022 -DelBello Donnellan Weingarten Wise & Wiederkehr, LLP letter dated 11/1/2022 with associated materials -Conceptual site plan | Diana Quast, Town Clerk |

The Advisory Board on Architecture and Community Appearance reviewed the above referenced subject at their meeting held on Tuesday, December 6, 2022. Joseph Eriole, Esq. of DDW Law; and Alejandro Giraldo of Perkins Eastman were present. The Board has no objections to the proposed rezoning of the property and looks forward to seeing the project as it develops.

Christopher Taormina
Christopher Taormina, RA
Chairman

/nc
cc: Planning Department
Planning Board
Town Board via *Town Clerk*
Applicant

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DEC 7 2022

TOWN OF YORKTOWN

Diane Dreier Co-Chair
Phyllis Bock Co-Chair

Matthew Slater
Town Supervisor

**TOWN OF YORKTOWN
CONSERVATION BOARD**

Town of Yorktown Town Hall, 363 Underhill Avenue, Yorktown Heights, New York 10598, Phone (914) 962-5722

MEMORANDUM

To: Planning Board

From: Yorktown Conservation Board

Date: 11/23/2022

Re: Dell Avenue Solar Farm

The Conservation Board joined the Planning Board on a site walk of 200 Dell Avenue on November 13, 2022. The Board's last memo was generated on July 14th. The applicant has satisfied all of the requests made by the Conservation Board.

The Conservation Board reemphasizes our consensus shared in previous memos on the siting of solar arrays. While renewable power sources such as wind and solar present green solutions to cutting carbon emissions, we maintain that solar farms should be located on sites that have few negative environmental impacts. The ecosystem services that forests provide - carbon sequestration, air and water purification, flood and erosion control, the ability to sustain biodiversity and genetic resources, should all be taken into consideration when reviewing applications such as these.

Respectfully submitted:

Phyllis Bock

For the Conservation Board

From: Wendy Frank <wendyfrank.mail@gmail.com>
Sent: Tuesday, November 29, 2022 3:08 PM
To: Planning Department
Subject: Re: Opposition to Unicorn & the Soundview plan - it's a really crappy plan

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

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PLANNING DEPARTMENT
NOV 29 2022
TOWN OF YORKTOWN

No response

Typical of Yorktown elected officials

How does the town track constituent letter to issue to response?

Oh wait, they don't because nobody knows how to write a ltr and they are all little puppets to the GOP clueless Slater. Slater has no clue about housing at all.

On Mon, Aug 15, 2022 at 3:21 PM Wendy Frank <wendyfrank.mail@gmail.com> wrote:

Dear Yorktown Planning Board,

I am requesting that you select the comprehensive Environmental Impact Study (EIS) option for the Underhill Farm development project. Please do what's in the best interest of our community and not what is in the best interest of the Development, and the lobbyist to Unicorn, you know the guy with no background in development who was fast tracked thru the ethics committee, and prior experience is being a chiropractor.

EIS, is the ONLY option which protects our community's quality of life vs the developer's financial interests. In addition, the town should look at how many foreclosed houses are currently in inventory in the town, bank owned. The town should address how there is no affordable housing options at all, and look at the fact the Soundview plan has no garages, no solar panel canopy for cars, and you can't see by the rendering what the square feet of each unit will be part of the All-Electric Building Act (S6843A/A8431) that Republican Assembly Member Kevin Bryne did not sign. This is not a 21st century plan for housing.

We hope that the planning board will consider how senior citizens, recent college graduates, empty nesters who might not want to live in Heritage Hills, and young families are going to pay market value to live in a town with no music venue, no art, no culture, and a town that is not walkable, has an empty mall, and the local bus stop is pretty sad. Then again, when was the last time a Yorktown elected official took the Bee Line Bus? We also need to consider the reality of a rendering of an overdeveloped property with no amenities and an awful traffic plan where local elected officials have not observed the traffic during busy times of the day or at all. Nothing says sketchy than having Terrence Murphy the FORMER elected official who has no prior experience in being a lobbyist, working on big scale construction projects as the lobbyist for Unicorn. Has anyone looked at his resume? It's almost like going to a dentist with no teeth. Why would you allow a chiropractor to be the lobbyist for a housing project?

The town also needs to have a plan which they don't, as foreclosures are a problem all over the country local elected officials have no rainy day plan if there is an economic downturn there are just too many houses on the market and foreclosed houses in the town.

Wendy Frank
2963 Curry Street

Draft Minutes

79 Somerston Rd

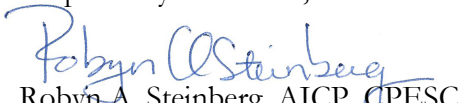
TOWN OF YORKTOWN PLANNING BOARD

Albert A. Capellini Community and Cultural Center, 1974 Commerce Street, Yorktown Heights, New York 10598, Phone (914) 962-6565, Fax (914) 962-3986

To: Town Board
From: Planning Board
Date: December 5, 2022
Subject: #WP-BSWPPP-038-22
79 Somerston Road
SBL: 17.10-1-3

At its meeting on November 28, 2022, the Planning Board discussed the subject application. The Board was unclear if the new garage addition was already approved, since it was not shown on the existing conditions plan, but is shown on the development plans and is not part of this application. The entire proposed development is within the 100 foot buffer from a state wetland, a town wetland, and is in the flood plain. The Board questioned if soil testing had been completed since the application is showing infiltration within a flood zone. More information is required and a representative is requested to be present for the Board to evaluate the cumulative effects of the proposed project.

Respectfully submitted,


Robyn A. Steinberg, AICP, CPESC
Town Planner

cc: Town Engineer
Fernando Pisa, Pisa Constriction
Frank Jennings, property owner

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DEC 7 2022
TOWN OF YORKTOWN

David A. Goessl, P.E.
Civil Engineer
622 Sprout Brook Road
Putnam Valley, N.Y. 10579
(914) 227-0258

December 6, 2022

Chairman Richard Fon and
Members of the Planning Board
Town of Yorktown
1974 Commerce Street
Yorktown Heights, N.Y. 10598

RE: 79 Somerston Road (SBL: 17.10-1-3) – Application for Freshwater Wetlands Site Plan
Approval for Proposed In-Ground Swimming Pool and Related Improvements

Dear Chairman Fon and Members of the Planning Board:

The applicant has received and appreciates the review memorandum drafted by the Town Planner Robyn Steinberg, dated December 5, 2022, summarizing key questions and comments raised on November 28th, by fellow members of the Planning Board for the above reference application for Wetlands Approval. While we were not present for that work session, we did review the televised recording and appreciate all the dialog and consideration that was offered by the Board including additional supporting information on the project provided by Town Engineer Dan Ciarca, PE.

On behalf of the owners and in an effort to provide additional clarification on the application before you, we respectfully submit this cover memorandum and attached engineering plans dated revised December 6, 2022, in anticipation for reappearance before the Planning Board on Monday January 12th. To further assist you with the review of this application, the following background information is offered regarding the current proposed action, developed engineering plans, proposed mitigation, and summary of Zoning variances and approvals for other site improvements already received by the owner.

- A. **Subject Property:** The property for 79 Somerston Road is situated on 17,653 square feet of land in the R 1-20 residential Zoning District and currently contains a single-family residence of 1,640 square feet. Developed lot features include a rear concrete paver patio, walkways, raised deck, tool shed and paved driveway for four off street parking spaces. The grade of the property is modestly sloped from northwest to southeast and is fairly landscaped with some trees, shrubs, and open lawn areas. The property to the rear contains both Town and New York State regulated wetlands and partially falls within a FEMA special flood hazard area. This area is heavily wooded consistent with adjacent wetland areas in the neighborhood. The application before you is for a project involving the installation of a new in-ground pool to replace an existing above-ground pool. Prior to this review, the applicant appeared before the Town Zoning Board and received variances (Case 47/22) and subsequent building permits to construct an attached garage. Other approvals included construction of the rear patio and elevated deck.
- B. **Environmental Critical Areas:** As mentioned, the subject property does contain freshwater wetlands and wetland buffer areas and does partially fall within a FEMA designated special floodplain hazard area for which base flood data is not provided. In January of 2022, the owner commissioned

environmental consultant Tim Miller Associates of Cold Spring NY to inspect, identify and stake out the wetland limits in the rear yard. The limits and controlled 50-foot and 100-foot buffer areas were captured and established on engineering plans. Mitigation for disturbance in the buffer area is offered through proposed wetland plantings consisting of Red Chokecherry (*Aronia arbutifolia*), Silky Dogwood (*Cornus amomum*), Arrowwood (*Viburnum dentatum*), American Elder (*Sambucus canadensis*) and Switch Grass (*Panicum virgatum*). The owner is aware and is committed to obtaining permitted wetland coverage from NSYDEC for this project.

- C. **Construction Sequence and Site Protections:** As with most projects, disturbance to neighboring properties is inevitable with residential development. Specified in the attached plan are a full set of sediment and erosion control measures including contractor acknowledgement and certification to ensure that all precautionary measures are in place to protect the municipal road, right of way and adjacent properties. As the subject property contains open lawn areas along the left side and rear yard, staging of equipment and construction materials should not be an issue as work progresses. Protective fencing will be installed upland of the wetland area.
- D. **Stormwater Management Design:** In keeping with Town code, a conceptual plan to mitigate surface water runoff from increased impervious coverages coupled with seasonal pool drawdown is developed and provided on page 2 of the attached plans. While the project calls for a net increase in impervious coverage of 76 square feet, a design including shallow infiltration units will be sized for full pool coverage for the standard 25-year, 24-hour rain event in conjunction with percolation rates which will be field determined at a later date. Modeling as such is consistent with New York State Department of Conservation's design standards for stormwater management. The primary location for the drainage system is in the rear yard. However should field investigations determine that the front yard is more suitable than the rear, that location will be used.

In summary, the plan before you provides all the requisite New York State design code for in-ground swimming pools and is consistent with the general provisions, legislative intent and adopted standards of Town Code for Stormwater Management, Erosion and Sediment Control (Chapter 248) and for Freshwater Wetlands (Chapter 178). The owner and I appreciate having the opportunity to submit this project and very much look forward to the Board's consideration.

Respectfully yours,

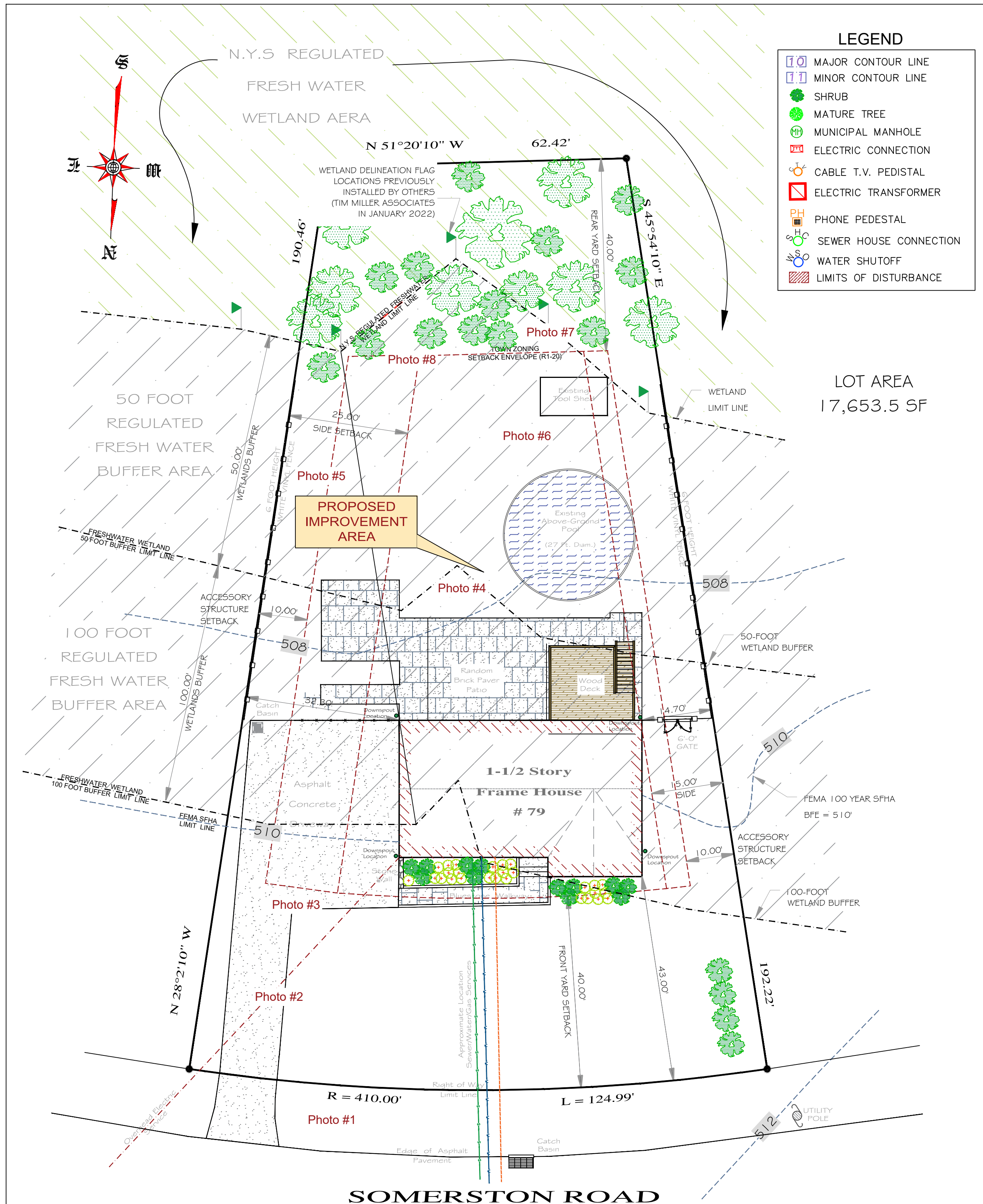
David A. Goessl, P.E.

Civil Engineer

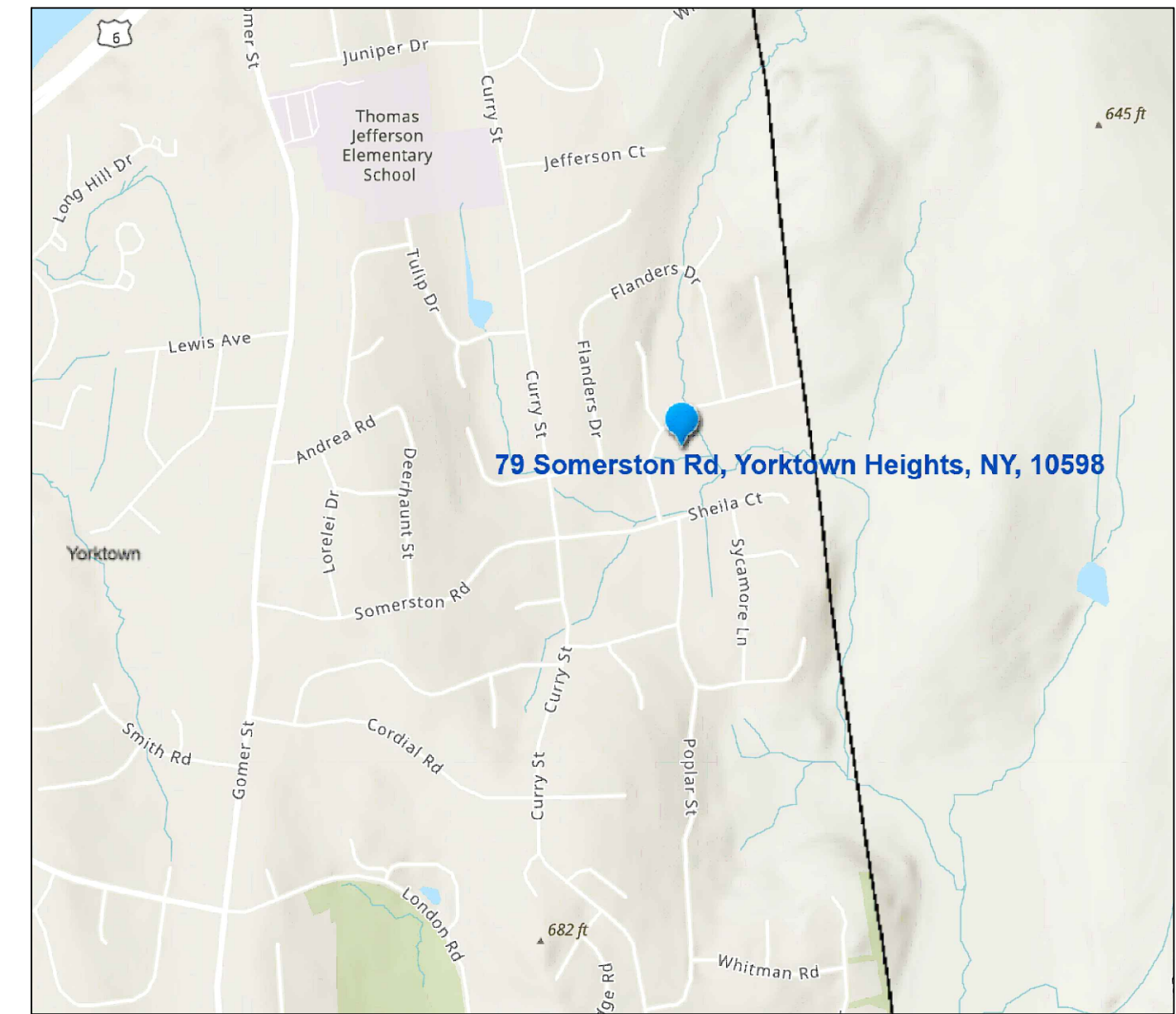
dgoessl2@gmail.com

CC: John A. Tegeder, RA, Director of Planning
Robyn A. Steinberg, AICP, CPESC, Town Planner
Dan Ciarcia, PE, Town Engineer
Frank Jennings, Property Owner
Frank Diodati, Code Specialist

EXISTING CONDITIONS - TOPOGRAPHICAL SITE PLAN



SITE PHOTOS - EXISTING CONDITIONS



GENERAL NOTES:

- SCOPE:** THE PURPOSE OF THIS MAP IS TO PRESENT AN ASSESSMENT OF EXISTING CONDITIONS FOR THE RESIDENTIAL PROPERTY LOCATED AT 79 SOMERSTON ROAD IN THE TOWN OF YORKTOWN, NY. PROPOSED ON THE SUBJECT PROPERTY IS THE CONSTRUCTION OF AN IN-GROUND SWIMMING POOL, POOL EQUIPMENT PAD AND RELATED IMPROVEMENTS. AS THE PROPERTY PRESENTLY IS A PARCEL THAT CONTAINS NEW YORK STATE REGULATED WETLANDS AND SUCH IMPROVEMENTS ARE PROPOSED WITHIN THE WETLAND BUFFER, AN APPLICATION IS MADE TO THE TOWN ENGINEER WITH SUBSEQUENT REFERRAL TO THE TOWN CONSERVATION ADVISORY BOARD AND TOWN BOARD FOR FRESHWATER WETLANDS APPROVAL AS REQUIRED IN LOCAL CODE SECTION 178-10B. THE PROPOSED UNDERGROUND POOL AND POOL EQUIPMENT PAD ARE PROPOSED WITHIN 50 FEET OF THE WETLAND BOUNDARY. MITIGATION PROVIDED WITH RIPARIAN BUFFER PLANTINGS.
- MAPPING:** THE BASE MAP DEPICTED HEREIN WAS PREPARED FROM A LAND SURVEY PREPARED BY KULHANEK & PLAN, P.C. LAND SURVEYORS, OF POUND RIDGE NEW YORK, DATED JULY 30, 2003 AND FROM AN ARCHITECTURAL SITE PLAN PREPARED BY DAVID TETRO, AIA, DATED JULY 7, 2022.
- TOWN BOARD APPROVALS:** THE INTENT OF THIS SUBMISSION IS TO SEEK RELIEF FROM THE TOWN BOARD WITH REFERRALS FROM TOWN CONSERVATION ADVISORY BOARD AND PLANNING BOARD TO ALLOW CONSTRUCTION OF A NEW IN-GROUND SWIMMING POOL AND RELATED IMPROVEMENTS WITHIN 50 FEET OF A N.Y.S. REGULATED WETLAND. PROPOSED POOL MEETS ALL ZONING REQUIREMENTS FOR ACCESSORY STRUCTURE. FOR A SEPARATE PROJECT INVOLVING CONSTRUCTION OF AN ATTACHED GARAGE, THE APPLICANT RECEIVED ZONING VARIANCES FOR SIDEYARD SETBACKS (CASE #47/22).
- RELEVANT TOWN CODE:** TOWN OF YORKTOWN CODE SECTION 178 REGULATES DEVELOPMENT WITHIN A FRESHWATER WETLAND CONTROLLED AREA OR BUFFER AREA. THE CODE DOES PROVIDE RELIEF FOR APPLICANTS THROUGH AN ADMINISTRATIVE WETLAND PERMIT. FOR PROJECTS WHERE A PROPOSED POOL IS LOCATED WITHIN THE 50 FOOT SETBACK, SECTION 178-10 B STIPULATES THE APPROVAL PROCESS. [Amended 10-17-2006 by L.L. No. 19-2006]
- CURRENT CONDITIONS:** THE EXISTING PROPERTY HAS 17,653.5 SQUARE FEET OF LAND WHICH CONTAINS A SINGLE FAMILY DWELLING, EXISTING ABOVE GROUND POOL, ASPHALT CONCRETE DRIVEWAY, PATIO, TOOL SHED AND RAISED REAR DECK. THE PROPERTY CONTAINS FOUR OFF STREET PARKING SPACES AND IS SERVED BY MUNICIPAL SEWER, WATER AND NATURAL GAS. THE CURRENT LOT IS PARTIALLY LOCATING IN A FEMA 100 YEAR SPECIAL FLOOD HAZARD AREA AND IS CONTAINS N.Y.S. WETLANDS AND WETLANDS BUFFER IN THE REAR SETBACK. THE DWELLING AND ACCESSORY STRUCTURES MEET ZONING DIMENSIONAL REQUIREMENTS FOR SIDE, REAR AND FRONT YARD SETBACKS FOR THE R-120 ZONING DISTRICT. WITH EXCEPTION TO LOT AREA, ALL AREA REQUIREMENTS ARE MET. RECENT APPROVALS WERE GRANTED FOR REAR PATIO, RAISED DECK AND ATTACHED GARAGE.
- CRITICAL/SENSITIVE AREAS:** THIS PROPERTY DOES CONTAIN THE AFOREMENTIONED FRESHWATER WETLANDS AND WETLAND BUFFER AREAS AND DOES PARTIALLY FALL WITHIN A FEMA DESIGNATED SPECIAL FLOODPLAIN HAZARD AREA. WETLAND LIMITS STAKED OUT BY T.M. MILLER ASSOCIATES IN JANUARY OF 2022. MITIGATION WITH WETLAND PLANTINGS PROPOSED.
- LIMITATIONS:** THIS PLAN IS NOT TO BE CONSTRUED TO SUPERCEDE ANY APPROVALS BY THE TOWN OF YORKTOWN TOWN BOARD OR OTHER LAND USE BOARDS FOR SITE PLAN OR COMPLETE ZONING/CODE COMPLIANCE, FACILITY USE, OPERATION OR DESIGN. THIS MAP WAS PREPARED STRICTLY TO ASSESS THE CURRENT AND PROPOSED CONDITIONS CONSISTENT WITH THIS APPLICATION BEFORE THE LOCAL PLANNING BOARD.

GENERAL SITE DATA:

- PROPERTY INFORMATION & OWNER:**
 DANIELLE & FRANK JENNINGS
 79 SOMERSTON ROAD
 YORKTOWN, N.Y. 10598
 SBL 17-10-10-03
- ENVIRONMENTAL AREAS:**
 - FEMA 100 YEAR SFHA
 - NYS REGULATED WETLAND
 - EAST OF HUDSON WATERSHED
 - CROTON RIVER WATERSHED
- 1. ZONING DISTRICT & USE:**
 SINGLE RESIDENTIAL DISTRICT - R1-20
- 2. ZONING BULK REQUIREMENTS:**
FOR RESIDENTIAL USE:
 - LOT AREA (MIN) - 20,000 SF
 - BUILDING COVERAGE (MAX) - 20% (3,530 SF)
 - LOT WIDTH (MIN) - 100 FEET
 - FRONT YARD (MIN) - 40 FEET
 - SIDE (MIN ONE) - 15 FEET
 - SIDE (MIN BOTH) - 40 FEET
 - REAR (MIN) - 40 FEET
 - HABITABLE FLOOR AREA - 800 SF MIN. PER UNIT
 - HEIGHT (MAX STORIES) - 3 STORIES
 - HEIGHT (MAX) - 35 FEET
 - ACCESSORY SETBACK (MIN) - 10 FEET
- 4. LAND USE DEVELOPED AREA SUMMARY:**
 EXISTING BUILDING COVERAGE - 1,640 SF (2,486 SF w/ Garage)
 EXISTING IMP. COVERAGE - 4,786 SF (5,747 SF w/ Garage)
 PARKING PROVIDED - 4 SPACES
- 5. UTILITY SERVICES:**
 WATER - YORKTOWN DISTRICT #1
 SEWER - PEEKSKILL SEWER DISTRICT
 GAS - CON EDISON COMPANY OF NY

AERIAL IMAGERY - EXISTING CONDITIONS



ZONING SCHEDULE (R1-20) - BULK REQUIREMENTS

| SCHEDULE ITEM | REQUIRED | EXISTING | PROPOSED |
|---------------------------|------------------|--------------------|----------|
| Lot Area | 20,000 s.f. | 17,653 s.f. | N/C |
| Lot Width | 100 ft. | 124.99 ft. | N/C |
| Lot Depth | 100 ft. | 190.46 ft. | N/C |
| Yard (Front) | 40 ft. | 43.0 ft. | N/C |
| Coverage (Building) | 20% (3,530 s.f.) | 8.65% (1,528 s.f.) | N/C |
| Yard (1 Side) | 15 ft. | 14.7 ft. | N/C |
| Yard (Combined Sides) | 40 ft. | 47.01 ft. | N/C |
| Yard (Rear) | 40 ft. | 104.77 ft. | N/C |
| Building Area | 800 s.f. | 1,640 s.f. +/- | N/C |
| Building Height (Feet) | 35 ft. | 18 ft. +/- | N/C |
| Building Height (Stories) | 3 | 1-1/2 | N/C |
| Parking | 1 Space | 4 Spaces | N/C |
| Road Frontage | 100 ft. | 100.01 ft. | N/C |



DAVID A. GOESSL, PE
CIVIL ENGINEER
 622 SPROUT BROOK ROAD
 PUTNAM VALLEY, NY 10579 (914) 227-0258

PROPOSED IN-GROUND SWIMMING POOL
 WITHIN A WETLAND CONTROLLED PROPERTY
 79 SOMERSTON ROAD, YORKTOWN, NY 10598

PREPARED BY: DAVID GOESSL, P.E. PREPARED FOR: D & F JENNINGS

DATE: OCTOBER 16, 2022 SCALE: 1"= 15 FEET SHEET: 1 OF 4

| NO. | REVISION | DATE |
|-----|-----------------------------|----------|
| 1 | OWNER REVIEW AND COMMENTS | 10/22/22 |
| 2 | CONSERVATION BOARD COMMENTS | 11/18/22 |
| 3 | PLANNING BOARD COMMENTS | 12/6/22 |

Survey of
 Tax Lot No. 3, Block 12.10 as shown on the Tax Map of the Town of Yorktown, Westchester County, New York.
 Portion of Section 7 of Jefferson Valley Corporation subdivision map filed February 18, 1962 as Map #12343 in the Westchester County Clerk's Office for Dec. 22.
 Survey completed: July 30, 2022
 on scale of one inch to 10 feet.

KULHANEK & PLAN, P.C.
 LAND SURVEYORS, P.C.

LONG ISLAND OFFICE: 400 N. WALKER ST., SUITE 200, GREAT NECK, N.Y. 11040
 WESTCHESTER OFFICE: 1000 W. MAIN ST., SUITE 100, POCONO SPRING, N.Y. 10854

MAP OF PROPERTY SITUATED AT
 TOWN OF YORKTOWN-WESTCHESTER COUNTY, N.Y.
 TAX IDENTIFICATION #: 17.10-01-03

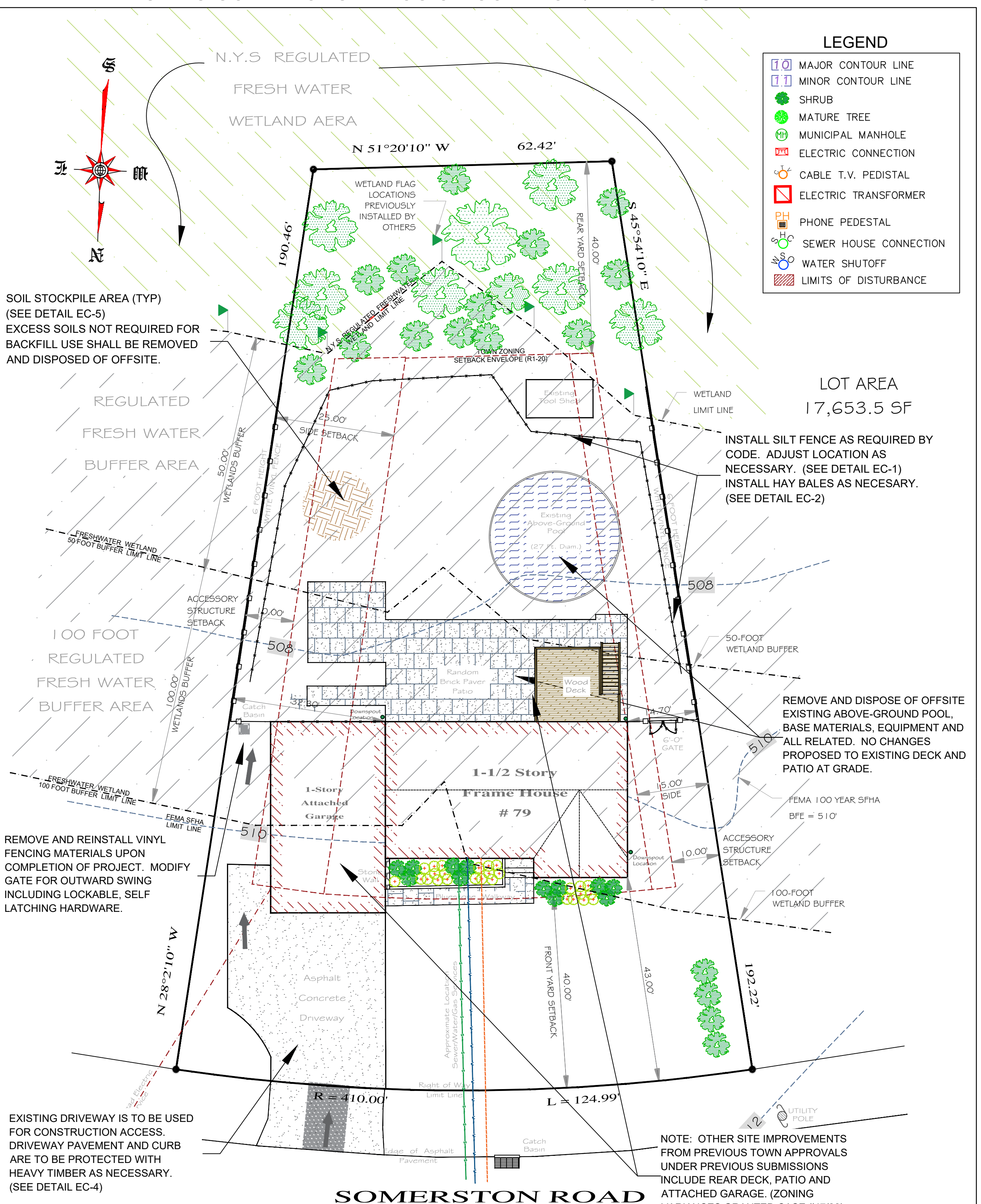
GRAPHIC SCALE
 1 inch = 15 feet

THE LOCATION OF UNDERGROUND UTILITIES AS SHOWN HEREON ARE BASED ON ABOVEGROUND STRUCTURES. LOCATIONS OF UNDERGROUND UTILITIES/STRUCTURES MAY VARY FROM LOCATIONS SHOWN HEREON. ADDITIONAL BURIED UTILITIES/STRUCTURES MAY BE ENCOUNTERED. FOR INFORMATION REGARDING THESE UTILITIES OR FACILITIES, PLEASE CONTACT THE APPROPRIATE AGENCIES.

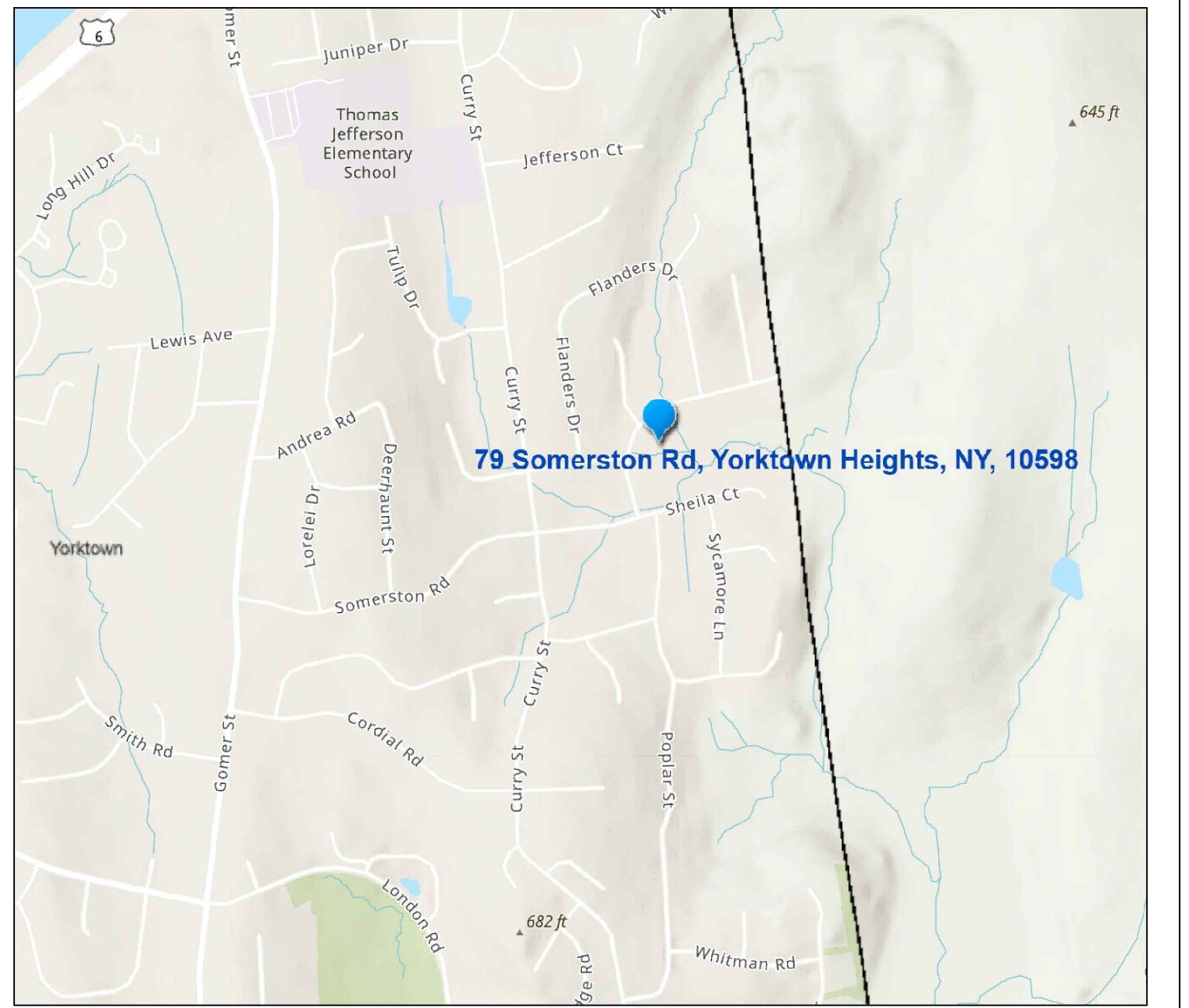
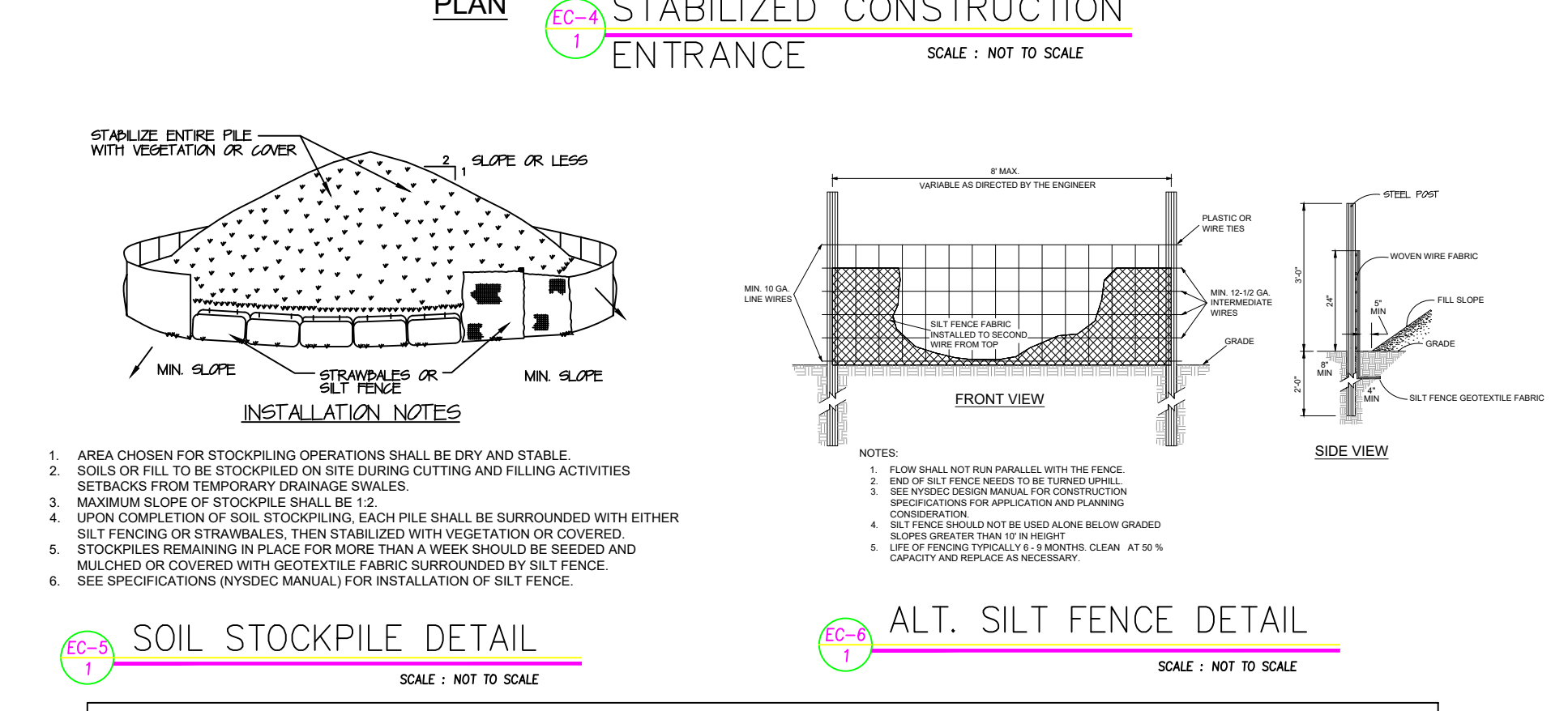
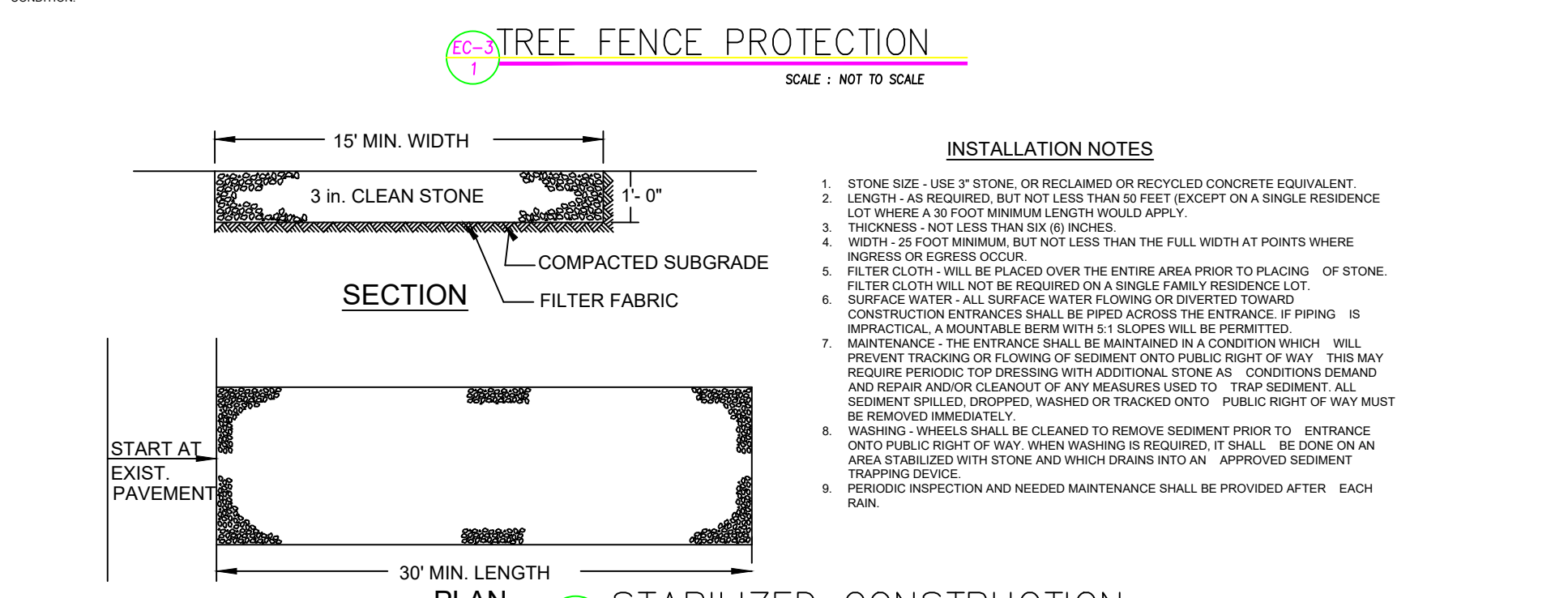
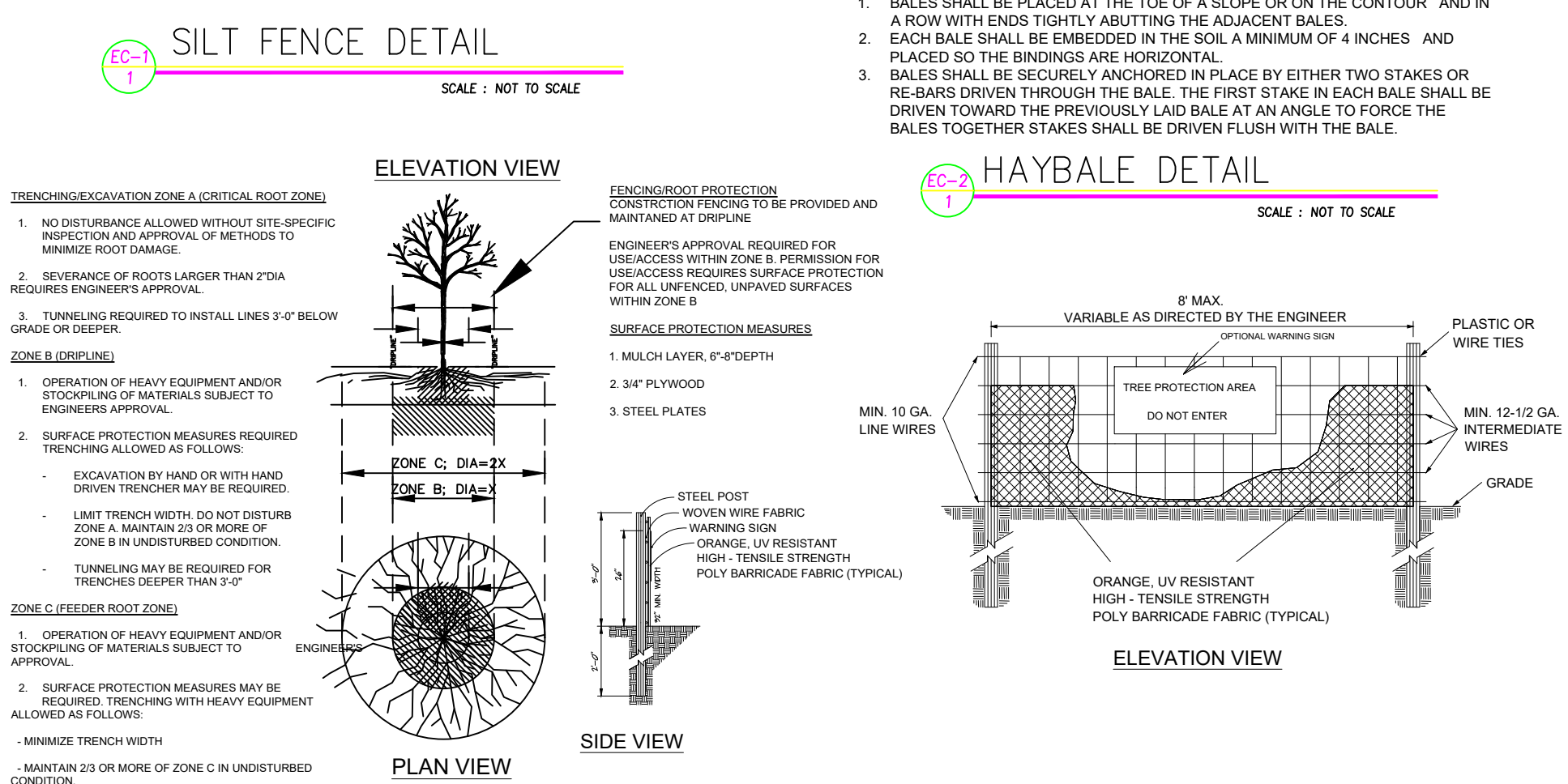
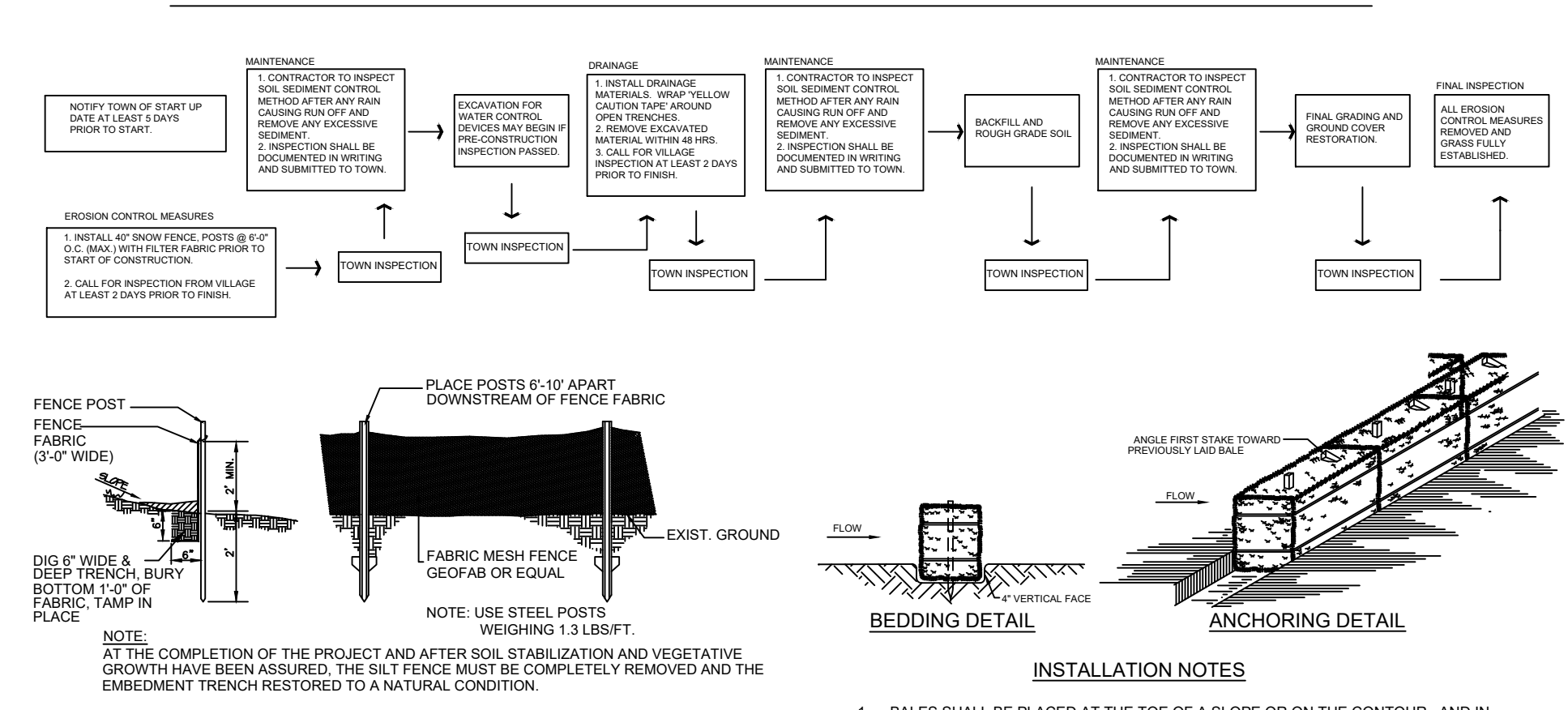
ANY UNAUTHORIZED ALTERATION OR ADDITION TO A PLAN BEARING A SEAL OF A LICENSED LAND SURVEYOR OR PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209 OF THE NYS EDUCATION LAW.

NOTE: ADDITIONAL PLANIMETRIC SURVEY DATA SHOWN HEREON ON THIS PLAN OF THE PROPERTY OF 2942 FARM WALK ROAD, YORKTOWN, WESTCHESTER COUNTY, NEW YORK, 10598 WAS PREPARED FROM PLANS PREPARED BY DAVID TETRO AIA, WESTCHESTER COUNTY GIS DATA, REFERENCED LAND SURVEY AND RECORDED DEED FOR SAID PROPERTY. ENGINEER ACCEPTS NO LIABILITY TO ERRORS AND OMISSIONS PROVIDED ON REFERENCED MAP SOURCES.

EXISTING CONDITIONS - EROSION CONTROL / DEMOLITION PLAN



EROSION CONTROL SCHEDULE AND DETAILS



INSTALLATION & MAINTENANCE OF EROSION CONTROL

CONSTRUCTION SCHEDULE
NOTIFY APPROPRIATE MUNICIPAL AGENCY HAVING JURISDICTION AT LEAST 5 DAYS PRIOR TO START

INSPECTION BY MUNICIPALITY - PRECONSTRUCTION EROSION CONTROL MEASURES

- Install all erosion control measures prior to start of construction.
- Call for inspection from the appropriate Municipal Agency having jurisdiction at least 2 days prior to finish.

INSPECTION BY MUNICIPALITY - MAINTENANCE ACTIVITIES DURING ALL PHASES OF CONSTRUCTION

- After any rain causing runoff Contractor to inspect haybales, etc. and remove any excessive sediment, and inspect stockpiles and correct any problems with seed establishment.
- Inspections shall be documented in writing and submitted to the appropriate Municipal Agency having jurisdiction.

INSPECTION BY MUNICIPALITY - STOCKPILING OF SOILS AND ROUGH GRADING OF SITE

- Strip topsoil and stockpile soil for reuse and properly dispose of all excess soils.
- Stockpile excavation subgrade materials and properly dispose of all excess soils.
- Seed stockpiles with 1 lb. total annual ryegrass mix per engineer.
- Perform rough grading activities as soon as practical. Call for Inspections as required.

INSPECTION BY MUNICIPALITY - FINE GRADING OF SITE

- Remove all remaining excess soils from site. Compact all graded materials as required.
- Call for inspection from the appropriate Municipal Agency having jurisdiction at least 2 days prior to finish.
- Perform all additional fine grading activities as required. Call for reinspection.

INSPECTION BY MUNICIPALITY - ESTABLISHMENT OF TURF, FINAL LANDSCAPING AND TREE REPLACEMENTS

- Spread topsoil evenly over areas to be seeded. Hand rake level.
- Broadcast 1.25 lb. Bag of Jonathan Green "Fastgro" mix or equal over areas to be seeded. Apply straw mulch and water within 2 days of completion of topsoiling.
- Demobilize all equipment and materials from site as necessary.
- Call for inspection from the appropriate Municipal Agency having jurisdiction at least 2 days prior to finish.

INSPECTION BY MUNICIPALITY - FINAL INSPECTION

- Perform any as-built drawings, land surveys and or engineering certifications. Submit documents to the appropriate Municipal Agency having jurisdiction.
- Call for inspection from the appropriate Municipal Agency having jurisdiction at least 2 days prior to finish.
- Remove all erosion control measures upon establishment of turf or as per the Municipal Agency having jurisdiction.

CONTRACTOR CERTIFICATION FOR SWEC COMPLIANCE:

THE UNDERSIGNED HEREBY CERTIFIES AND AGREES TO COMPLY WITH THE TERMS AND CONDITIONS OF THE STORM WATER, POLLUTION PREVENTION PLAN AND AGREES TO IMPLEMENT ANY AND ALL CORRECTIVE ACTIONS IDENTIFIED BY THE NYSDEC QUALIFIED INSPECTOR AND/OR TOWN ENGINEER AND/OR BUILDING INSPECTOR DURING ALL SITE INSPECTIONS. FURTHERMORE THE UNDERSIGNED UNDERSTANDS THAT THE OWNER AND/OR PERMIT HOLDER SHALL COMPLY WITH ALL LOCAL CODES FOR STORMWATER MANAGEMENT AND ALL TERMS AND CONDITIONS OF NEW YORK STATE POLLUTANT DISCHARGE ELIMINATION SYSTEM (SPDES) GENERAL PERMIT FOR STORMWATER DISCHARGES FROM ACTIVE CONSTRUCTION SITES AS IT IS UNLAWFUL FOR ANY PERSON TO CAUSE OR CONTRIBUTE TO A VIOLATION(S) OF WATER QUALITY STANDARDS.

NAME: _____
SIGNATURE: _____
DATED: _____

DAVID A. GOESSL, PE
CIVIL ENGINEER
622 SPROUT BROOK ROAD
PUTNAM VALLEY, NY 10579 (914) 227-0258

PROPOSED IN-GROUND SWIMMING POOL
WITHIN A WETLAND CONTROLLED PROPERTY
79 SOMERSTON ROAD, YORKTOWN, NY 10598

PREPARED BY: DAVID GOESSL, P.E. PREPARED FOR: D & F JENNINGS

DATE: OCTOBER 16, 2022 SCALE: 1"= 15 FEET SHEET: 2 OF 4

| NO. | REVISION | DATE |
|-----|------------------------------------|----------|
| 1 | OWNER REVIEW AND COMMENTS | 10/22/22 |
| 2 | CONSERVATION BOARD COMMENTS | 11/18/22 |
| 3 | RIPARIAN BUFFER PLANTINGS PROPOSED | |
| 3 | PLANNING BOARD COMMENTS | 12/6/22 |

Survey of (50 Foot Right of Way)

MAP OF PROPERTY SITUATED AT
TOWN OF YORKTOWN - WESTCHESTER COUNTY, N.Y.
TAX IDENTIFICATION #: 17.10-01-03

GRAPHIC SCALE
1 inch = 15 ft.

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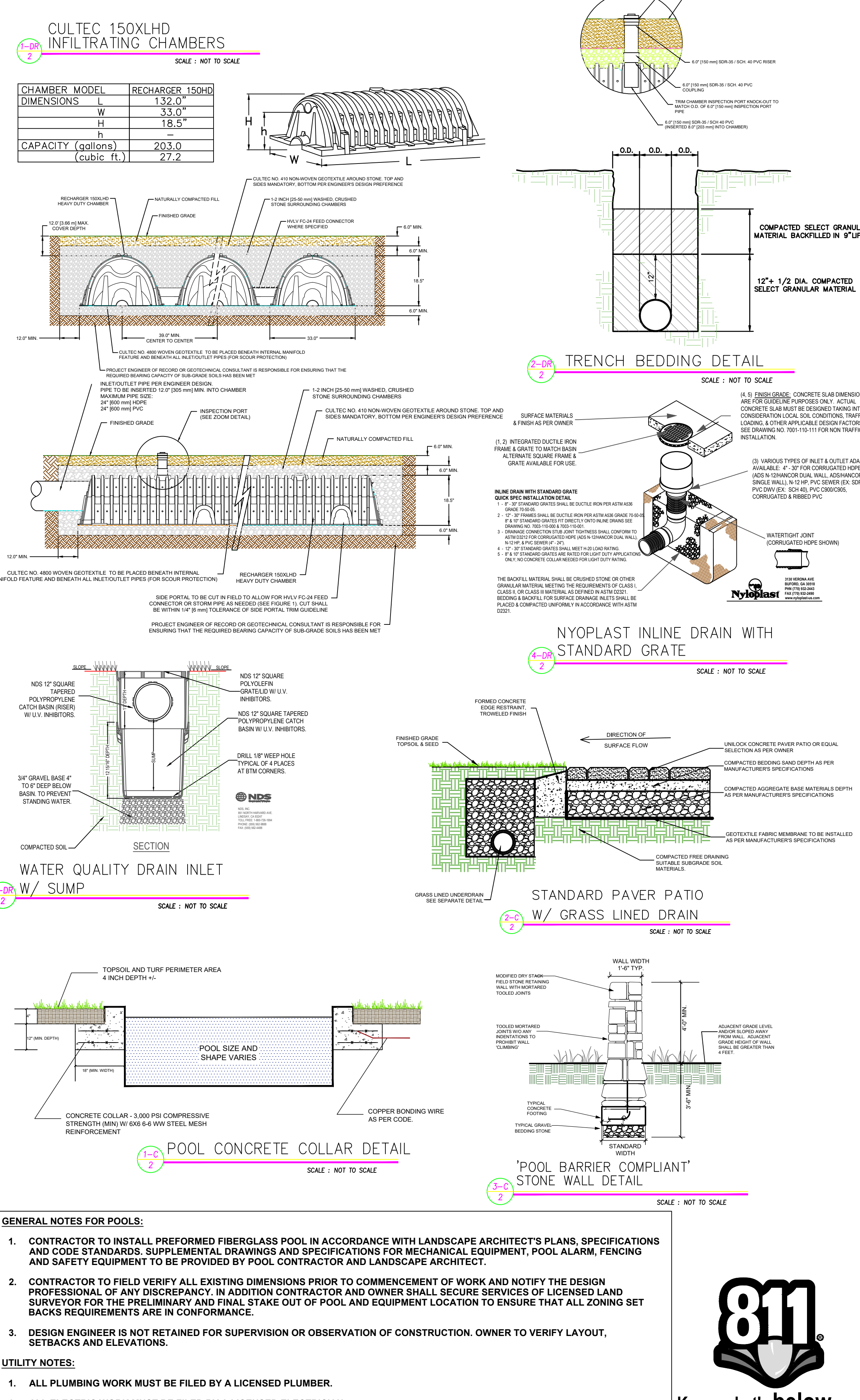
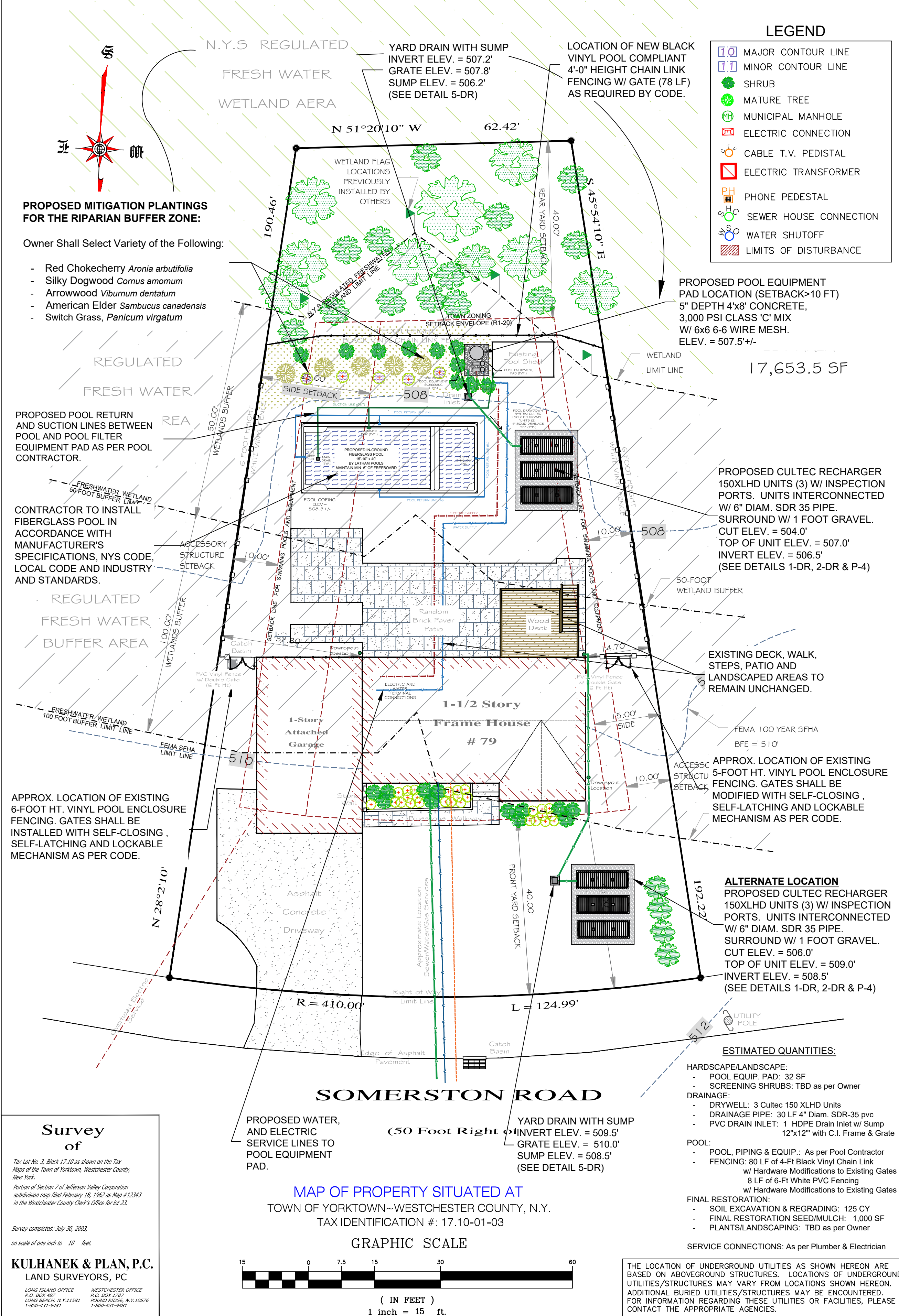
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PROPOSED IMPROVEMENTS PLAN WITH STORMWATER FEATURES

STANDARD DETAILS



GENERAL CONSTRUCTION NOTES:

- The Applicant shall secure all of the necessary permits from the Town of Yorktown to ensure compliance with Local, County and State Building, Highway and Sanitary Codes. The Applicant is responsible to contact the Engineering Department to schedule an inspection of the sediment and erosion control practices prior to the start of construction.
- During work and upon completion, the Applicant shall schedule all of the necessary inspections and certificates of approval with the Town of Yorktown officials.
- The Applicant shall secure the services of a NYS licensed land surveyor as necessary to stake out the exact location of proposed improvements and as required by the Town for record documents.
- The Applicant shall verify location of all underground utilities by calling Dig Safe NY @ 1-(800) 962-7962 to ensure that there are no conflicts with existing systems. Private installations shall also be identified as required.
- Any existing utilities, pavement, sidewalk, curbing, grass areas etc., disturbed and/or damages during construction, must be replaced and/or repaired at the Applicant's expense.
- The Applicant shall secure the work zone through proper placement of construction fencing materials, cones, barricades, and caution tape.
- All debris, excess soils and waste materials, as a result of this proposed improvement, shall be removed from site and disposed of properly.
- All fill material shall consist of clean soils, or soil-rock mixture free from organic matter, construction debris or other deleterious material. Materials shall contain no rock or lump over 6" in greatest dimension and not more than 15% of the rocks or lumps shall be larger than 2.5" in greatest dimension.
- Should unforeseen conditions or circumstances develop or other causes necessitate changes to the approved plans, the Applicant shall notify the Design Engineer of record.
- All erosion controls and protective measures shall conform to the "New York State Standards and Specifications for Erosion and Sediment Control." The Town Inspector may specify additional sediment and erosion control measures to safeguard the public right of way and adjacent properties.
- Construction erosion control and protection measures shall be inspected by a qualified engineer or trained individual having received NYSDEC 4-hour erosion and sediment control training at a minimum of weekly and following all rain events greater than 0.5 inch.

STORMWATER SYSTEM NOTES:

- The Applicant shall safeguard the limits of improvements through proper installation of silt fencing and hay bales downgrade from all excavation areas and stockpiles soil and gravels materials.
- The Contractor shall verify all field dimensions and drainage layouts prior to performing any installation. Any discrepancies shall be immediately reported to the Engineer of record.
- The Contractor shall verify depth upon excavation for suitable soils and consult with the Design Engineer prior to installing any drainage systems. The Design Engineer will verify soil percolation rates and prior test results at the time of construction. Any design changes to the storm water system during construction due to unforeseen circumstances such as shallow groundwater, rock, utility conflict etc., must be resubmitted to the Town Building and Engineering Departments for approval prior to construction.
- The Contractor shall schedule required inspections at least 48 hours in advance to both Engineer of record and Town Inspector, and that no work shall be covered or concealed until the required inspections are passed.
- Stormwater drainage system shall be installed along the proposed pathway as indicated on the plans. Pipe materials for pool drainage downflow shall be 4" diameter SDR-35 PVC (or Sch. 40) piping. Underground infiltrating stormwater chamber(s) shall not be buried within ten feet of a building foundation nor ten feet from any adjacent property or right of way. The proposed drainage system is designed to handle six inches of seasonal pool drawdown for dechlorinated pool water including the net impervious surfaces created by the proposed pool.
- The proposed stormwater system consists of 3 Cultec 150XLHD Chambers with interconnections consisting of 6" diameter PVC (or HDPE) piping.
- The proposed location of the drywell system shall be in the rear yard maintaining minimum 10 foot setbacks from dwelling and property lines. Owner/Contractor shall contact the Design Engineer should conflict(s) exist.

OWNER POST CONSTRUCTION MAINTENANCE:

- The owner shall inspect all roof leader downspouts fittings, inspection ports and cleanout caps once per year to ensure proper connections are in place.
- The owner shall inspect and remove all debris from the grate of any open yard drain and driveway drain regularly with additional emphasis during the fall and winter months.
- The owner shall inspect and remove all accumulated debris from the sumps of any driveway drain and yard drain at a minimum of once per year. Adjust frequency as necessary.
- All areas of disturbance shall be restored at the earliest practical date and/or immediately upon suspension of work.

Survey of

Tax Lot No. 3, Block 12.10 as shown on the Tax Map of the Town of Yorktown, Westchester County, New York.

Portion of Section 7 of Jefferson Valley Corporation subdivision map filed February 18, 1962 as Map #12343 in the Westchester County Clerk's Office for Dec 21.

Survey completed: July 30, 2022
 on scale of one inch to 10 feet.

KULHANEK & PLAN, P.C.
 LAND SURVEYORS, PC

LONG ISLAND OFFICE: 400 AVENUE N
 WESTCHESTER OFFICE: 1000 WESTCHESTER AVE
 WESTCHESTER, NY 10598

DAVID A. GOESSL, PE
CIVIL ENGINEER
 622 SPROUT BROOK ROAD
 PUTNAM VALLEY, NY 10579 (914) 227-0258

PROPOSED IN-GROUND SWIMMING POOL WITHIN A WETLAND CONTROLLED PROPERTY
 79 SOMERSTON ROAD, YORKTOWN, NY 10598

PREPARED BY: DAVID GOESSL, P.E. PREPARED FOR: D & F JENNINGS

DATE: OCTOBER 16, 2022 SCALE: 1"=15 FEET SHEET: 3 OF 4

- GENERAL NOTES FOR POOLS:**
- CONTRACTOR TO INSTALL PREFORMED FIBERGLASS POOL IN ACCORDANCE WITH LANDSCAPE ARCHITECT'S PLANS, SPECIFICATIONS AND CODE STANDARDS. SUPPLEMENTAL DRAWINGS AND SPECIFICATIONS FOR MECHANICAL EQUIPMENT, POOL ALARM, FENCING AND SAFETY EQUIPMENT TO BE PROVIDED BY POOL CONTRACTOR AND LANDSCAPE ARCHITECT.
 - CONTRACTOR TO FIELD VERIFY ALL EXISTING DIMENSIONS PRIOR TO COMMENCEMENT OF WORK AND NOTIFY THE DESIGN PROFESSIONAL OF ANY DISCREPANCY. IN ADDITION CONTRACTOR AND OWNER SHALL SECURE SERVICES OF LICENSED LAND SURVEYOR FOR THE PRELIMINARY AND FINAL STAKE OUT OF POOL AND EQUIPMENT LOCATION TO ENSURE THAT ALL ZONING SET BACKS REQUIREMENTS ARE IN CONFORMANCE.
 - DESIGN ENGINEER IS NOT RETAINED FOR SUPERVISION OR OBSERVATION OF CONSTRUCTION. OWNER TO VERIFY LAYOUT, SETBACKS AND ELEVATIONS.
- UTILITY NOTES:**
- ALL PLUMBING WORK MUST BE FILED BY A LICENSED PLUMBER.
 - ALL ELECTRIC WORK MUST BE FILED BY A LICENSED ELECTRICIAN.
- POOL DRAWDOWN AND FILTER CONNECTION NOTES:**
- POOL WATER IS CHEMICALLY TREATED AND MAY NOT BE DRAINED TO THE ROAD, RIGHT OF WAY OR OPEN GRADE.
 - CONTRACTOR TO PROVIDE AN ACCESSIBLE DRAWDOWN CONNECTION TO AN APPROVED DRAINAGE SYSTEM.

811

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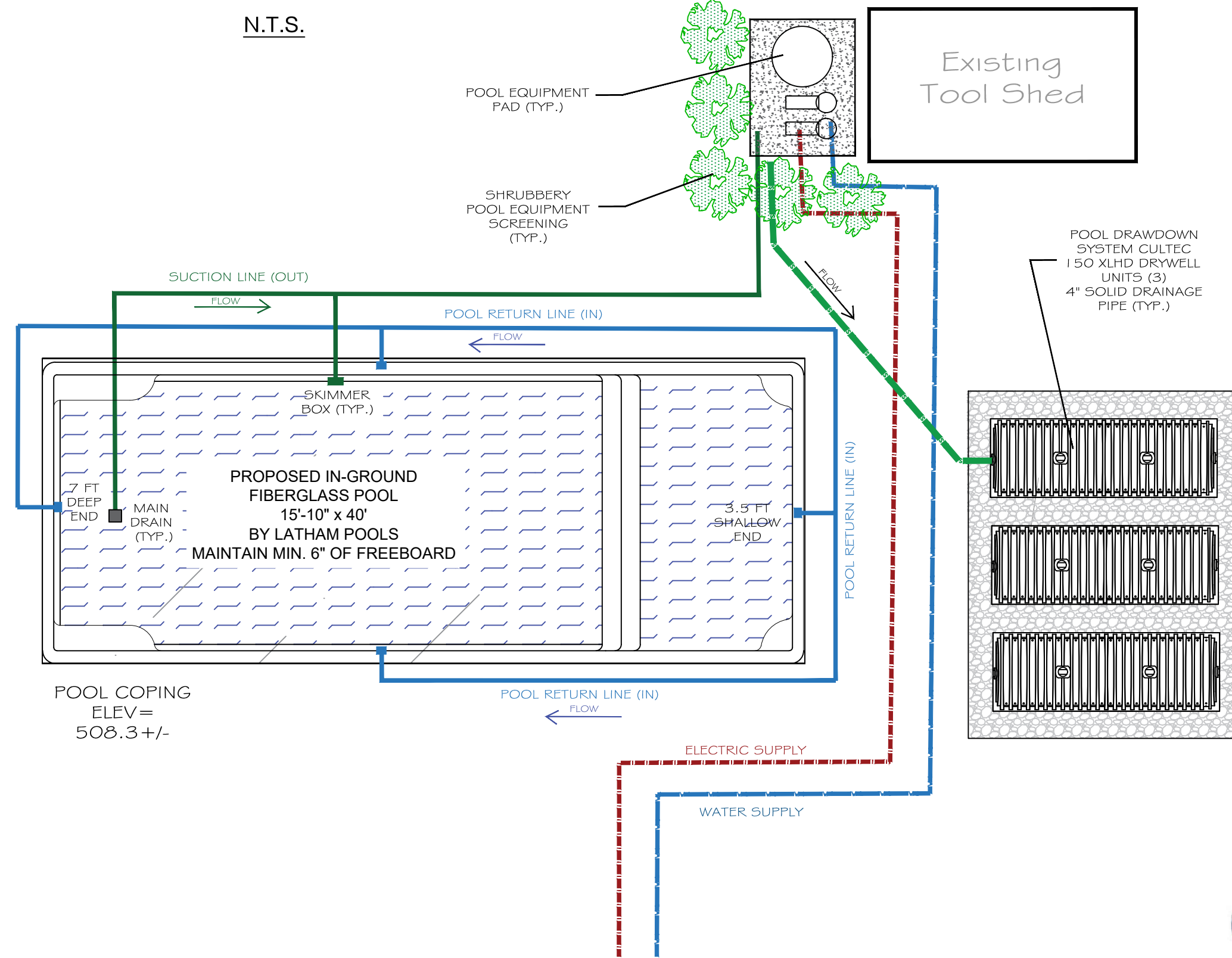
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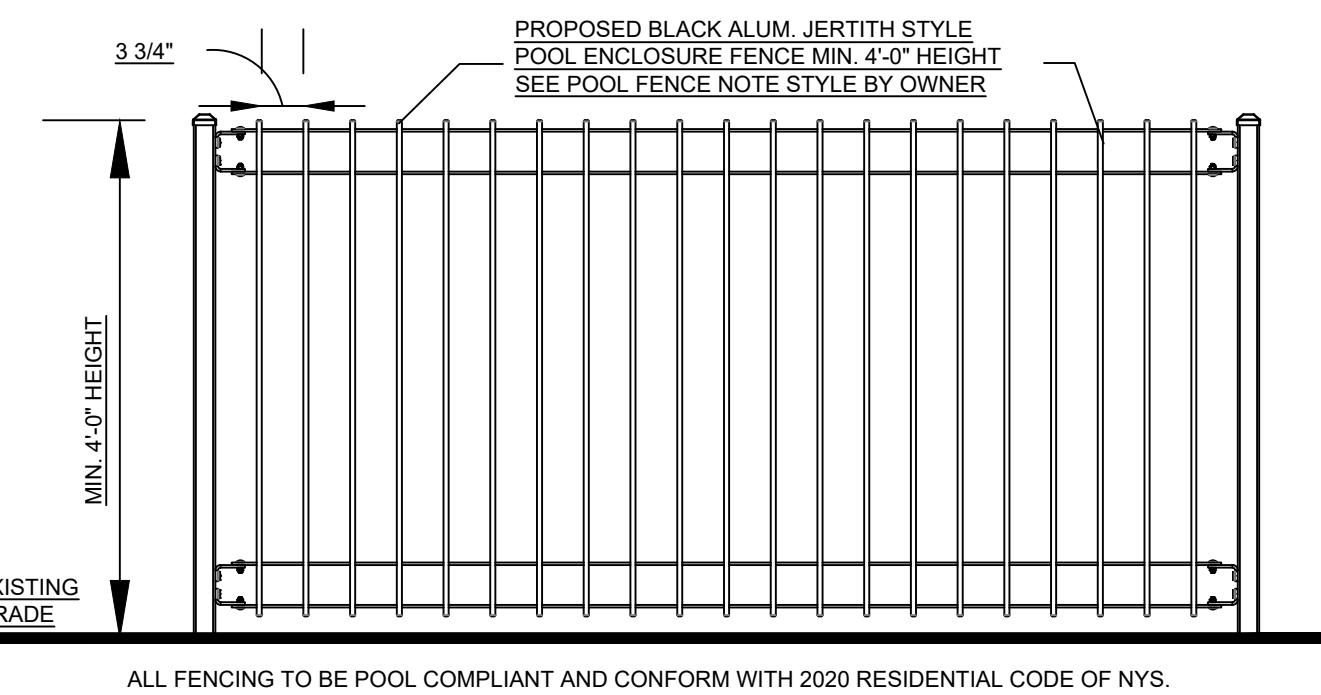
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POOL & SPA DETAILS

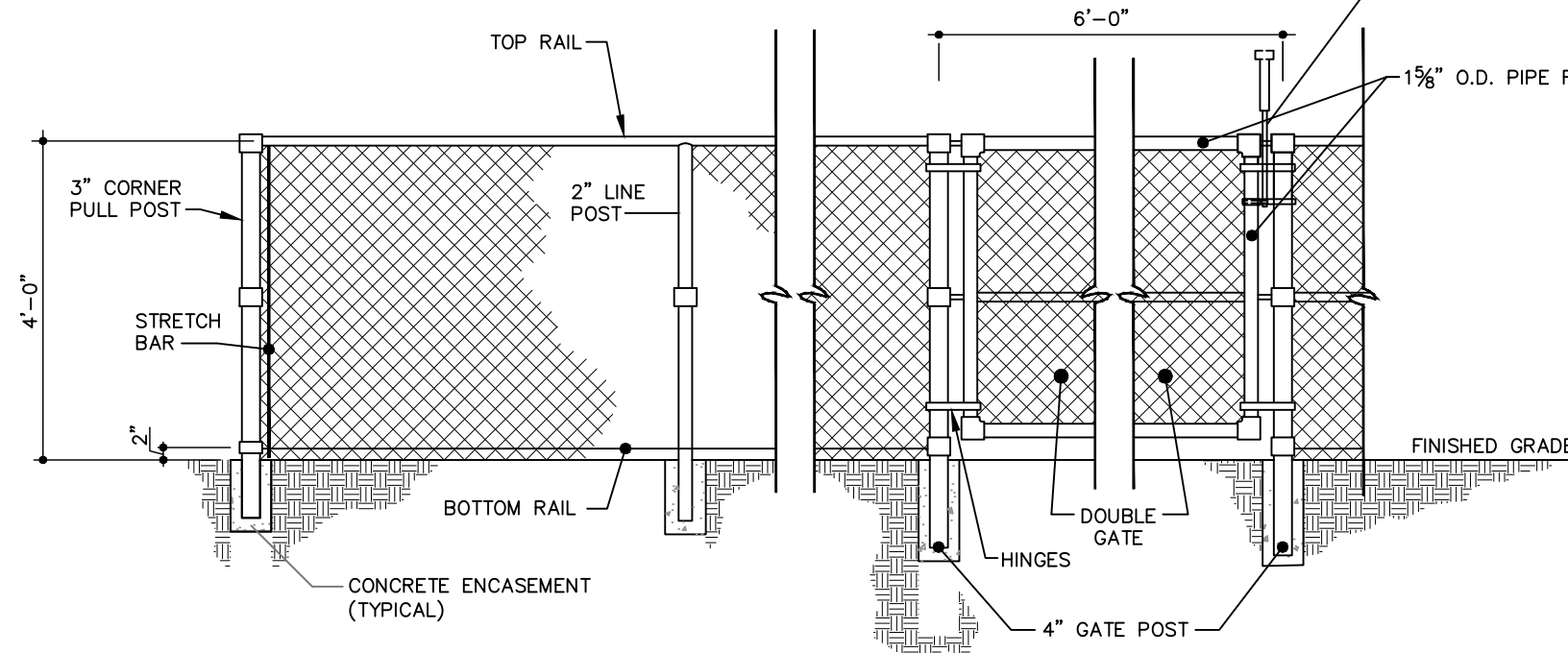
ENLARGED POOL DETAIL



P-1
3 FIBERGLASS POOL PLAN
SCALE: NOT TO SCALE



P-2
3 ALTERNATE POOL ENCLOSURE FENCE DETAIL
SCALE: NOT TO SCALE

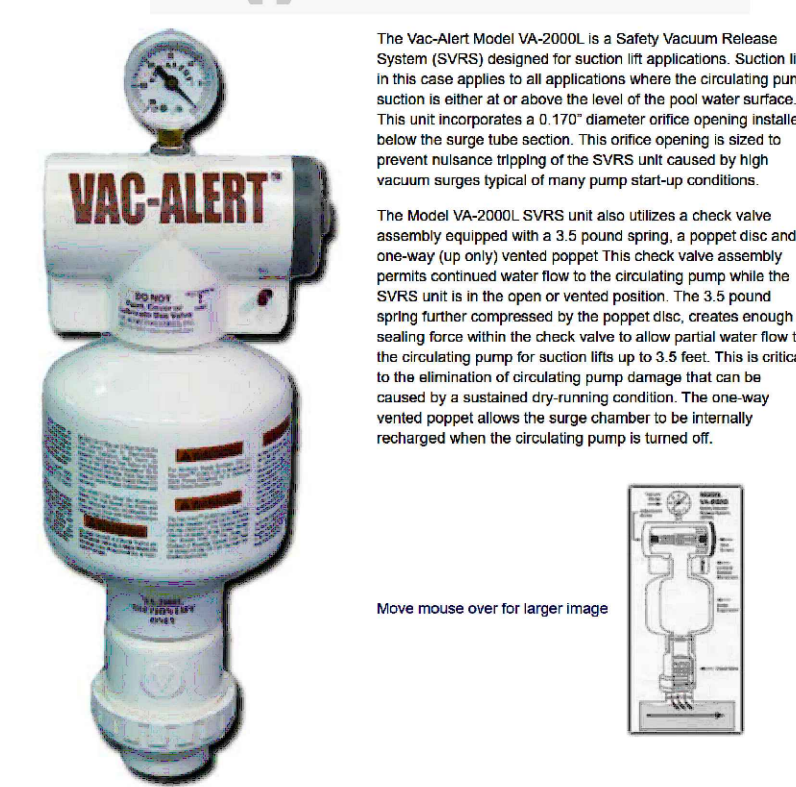


FENCE NOTES:
 1. DOUBLE GATE SHALL HAVE A LOCKING MECHANISM POOL COMPLIANT. SWING SHALL BE OUTWARD FROM POOL.
 2. ALL FENCE COMPONENT MATERIALS SHALL BE EITHER HOT DIPPED GALVANIZED STEEL OR IRON.
 3. ALL FENCING SHALL BE PROVIDED WITH A BLACK VINYL COATED POLYESTER PRIVACY SCREEN ACROSS THE ENTIRE SURFACE AREA OF THE FENCE INCLUDING GATES.
 4. ALL CHAIN LINK FENCING AND POSTS SHALL BE VINYL COATED WITH BLACK UV RESISTANT VINYL.
 5. ALL FENCING TO BE POOL COMPLIANT AND CONFORM WITH 2020 RESIDENTIAL CODE OF NYS.

P-3
3 POOL ENCLOSURE FENCE DETAIL
SCALE: NOT TO SCALE

POOL ENTRAPMENT PROTECTION SAFETY VACUUM RELEASE SYSTEM

P-5
3 SCALE: NOT TO SCALE



The Vac-Alert Model VA-2000L is a Safety Vacuum Release System (SVRS) designed for suction lift applications. Suction lift in this case applies to all applications where the circulating pump suction is either at or above the level of the pool water surface. This unit incorporates a 2 1/2\"/>

The Model VA-2000L SVRS unit also utilizes a check valve assembly equipped with a 3.5 pound spring, a poppet disc and a one-way (up only) vented copper float check valve assembly. This assembly permits continued water flow to the circulating pump while the SVRS unit is in the open or vented position. The 3.5 pound spring further compressed by the poppet disc, creates enough leading force within the check valve to allow partial water flow to the circulating pump for suction lifts up to 5 feet. This is critical to the elimination of circulating pump damage that can be caused by a sustained dry running condition. The one way vented poppet allows the surge chamber to be internally recharged when the circulating pump is turned off.

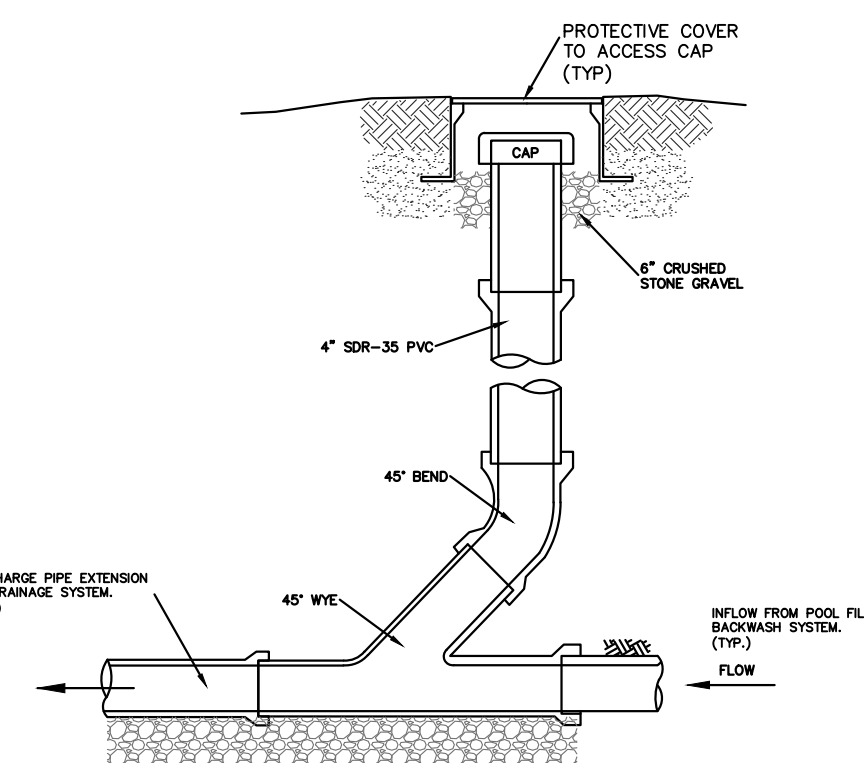
VAC-ALERT FIELD VA-2000 TEST DATA SHEET

SVRS INFORMATION

A. Valve ARL serial number: _____
 B. Test performed on: Pool () Spa () Fountain () Other ()
 C. Did pool or spa have multiple main drains? Yes () No ()
 D. Did valve trip three consecutive times? Yes () No ()
 E. Method of testing: Pole-Mounted Mat Test () Ball/Zandy Valve Test ()
 Slide gate or Butterfly Valve ()

INSTALLATION LOCATION INFORMATION

Name: _____
 Address: _____
 I have discussed with the owner and/or individual the complete operational and testing procedure for the SVRS unit.
 Test Performed By: _____
 Date of Test: _____



P-4
2 SEASONAL POOL DRAWDOWN & BACKWASH CONNECTION TO DRAIN
SCALE: NOT TO SCALE

GENERAL POOL SAFETY NOTES:

- 1. FENCE ENCLOSURE:** THERE SHALL BE MAINTAINED ON SAID LOT, AND COMPLETELY ENCLOSING POOL FENCING AND GATES, SHALL BE A MINIMUM 4'-0" HIGH OR AS NOTED ON PLAN. GATED SHALL BE SELF-CLOSING & SELF-LATCHING AND LOCKABLE, DESIGNED TO KEEP AND CAPABLE OF KEEPING SUCH GATES SECURELY CLOSED AND LOCKED AT ALL TIMES, WHEN NOT IN USE. GATES SHALL OPEN AWAY FROM POOL AREA. ALL FENCING SHALL MEET THE REQUIREMENTS OF APPENDIX-G, SECTION AG-1-105 OF THE RESIDENTIAL CODE OF NYS. THE BARRIER SHALL BE COMPOSED OF VERTICAL MEMBERS WITH ONLY HORIZONTAL TOP AND BOTTOM RAILS. OPENINGS IN THE BARRIER SHALL NOT ALLOW PASSAGE OF A 4 INCH DIAMETER SPHERE. THE MAXIMUM CLEARANCE BETWEEN GRADE AND THE BOTTOM OF THE BARRIER SHALL BE 2 INCHES.
- 2. DWELLING:** THE WALL OF THE DWELLING MAY SERVE AS PART OF THE BARRIER. HOWEVER ALL DOORS WITH DIRECT ACCESS TO THE POOL THROUGH THE WALL SHALL BE EQUIPPED WITH AN ALARM WHICH PRODUCES AN AUDIBLE WARNING WHEN THE DOORS ARE OPENED.
- 3. POOL ALARMS:** ALL DOORS, OPENING TO THE POOL ENCLOSURE SHALL BE FITTED WITH A "POOLGUARD" ALARM #DAPT-WT, WHICH MEETS NYS POOL BARRIER CODE, ASTM F2208, AND PER 2020 NYS RESIDENTIAL CODE R326.7. ALL WINDOWS WITHIN POOL ENCLOSURE SHALL BE FITTED WITH A "WINDOW STOP" SO THAT THE WINDOWS ARE RESTRICTED TO LESS THAN 4" WHEN OPEN. A POOL IS NOT REQUIRED TO BE EQUIPPED WITH AN APPROVED POOL ALARM AS PER SECTION R 326.7 OF THE NYS RESIDENTIAL CODE, IF THE POOL WILL BE EQUIPPED WITH AN AUTOMATIC POWER SAFETY COVER WHICH COMPLIES WITH ASTM F1346.

- 4. PORTABLE WATER PROTECTION:** POOL WATER AUTO FILL THE "POOL MISER" WATER AUTO FILL IS EQUIPPED WITH A BUILT IN CHECK VALVE TO PROTECT POTABLE WATER SUPPLY.

- 5. ENTRAPMENT PROTECTION:** POOL SUCTION OUTLETS WILL BE PROTECTED AGAINST USER ENTRAPMENT AS PER SECTION R 326.6 OF THE NYS 2020 RESIDENTIAL CODE. SUCTION OUTLETS SHALL HAVE A COVER THAT CONFORMS TO AN APPROVED CHANNEL DRAIN SYSTEM. OUTLET CIRCULATION SYSTEMS SHALL BE EQUIPPED WITH A ATMOSPHERIC VACUUM RELIEF. PUMP CIRCULATION SYSTEMS SHALL HAVE A MINIMUM OF TWO SUCTION OUTLETS WITH A MINIMUM HORIZONTAL AND VERTICAL DISTANCE OF 3 FEET BETWEEN THE OUTLETS. THE INSTALLATION SHALL INCLUDE A POOL DRAIN COVERS THAT IS COMPLIANT WITH THE VIRGINIA GRAEME BAKER POOL & SPA SAFETY ACT (VGB ACT) TO AVOID ENTRAPMENT HAZARDS. THE PROPOSED POOL INSTALLATION SHALL INCLUDE ONE **VAC-ALERT MODEL VA-2000L SAFETY VACUUM RELEASE SYSTEM (SVRS)** DESIGNED FOR SUCTION LIFT APPLICATIONS.

2020 NYS RESIDENTIAL CODE REFERENCES:

303.2 ENCLOSURES. THE PROVISIONS OF THIS SECTION SHALL CONTROL THE MAINTENANCE OF BARRIERS FOR SWIMMING POOLS, SPAS AND HOT TUBS INSTALLED, CONSTRUCTED OR SUBSTANTIALLY MODIFIED AFTER DECEMBER 14, 2006. DESIGN CONTROLS ARE INTENDED TO PROVIDE PROTECTION AGAINST POTENTIAL DROWNING AND NEAR-DROWNING BY RESTRICTING ACCESS TO SWIMMING POOLS, SPAS AND HOT TUBS.

303.2.2 TEMPORARY BARRIERS. AN OUTDOOR SWIMMING POOL, INCLUDING AN IN-GROUND, ABOVE-GROUND OR ON-GROUND POOL, HOT TUB OR SPA SHALL BE SURROUNDED BY A TEMPORARY BARRIER DURING INSTALLATION OR CONSTRUCTION IN COMPLIANCE WITH SECTION R326.4 OF THE RESIDENTIAL CODE OF NEW YORK STATE OR SECTION 3109.3.2 OF THE BUILDING CODE OF NEW YORK STATE, AS APPLICABLE.

303.3 SWIMMING POOL AND SPA ALARMS. A SWIMMING POOL OR SPA INSTALLED, CONSTRUCTED OR SUBSTANTIALLY MODIFIED AFTER DECEMBER 14, 2006, SHALL BE EQUIPPED WITH AN APPROVED POOL ALARM IN COMPLIANCE WITH SECTION R326.7 OF THE RESIDENTIAL CODE OF NEW YORK STATE OR SECTION R3109.5 OF THE BUILDING CODE OF NEW YORK STATE, AS APPLICABLE.

R326.1.1 COMPLIANCE WITH OTHER SECTIONS. SWIMMING POOLS, SPAS AND HOT TUBS SHALL COMPLY WITH THIS SECTION AND OTHER APPLICABLE SECTIONS OF THIS CODE. THE REQUIREMENTS OF THIS SECTION AND OF THE OTHER APPLICABLE SECTIONS OF THIS CODE SHALL BE IN ADDITION TO, AND NOT IN REPLACEMENT OF OR SUBSTITUTION FOR, THE REQUIREMENTS OF OTHER APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS, INCLUDING, BUT NOT NECESSARILY LIMITED TO THE REQUIREMENTS OF SECTION 8003 (FEDERAL SWIMMING POOL AND SPA DRAIN COVER STANDARD) OF TITLE 15 OF THE UNITED STATES CODE (CPSC 15 USC 8003), WHERE APPLICABLE.

R326.5 ENTRAPMENT PROTECTION FOR SWIMMING POOL AND SPA SUCTION OUTLETS. SUCTION OUTLETS SHALL BE DESIGNED TO PRODUCE CIRCULATION THROUGHOUT THE POOL OR SPA. SINGLE-OUTLET SYSTEMS, SUCH AS AUTOMATIC VACUUM CLEANER SYSTEMS, OR MULTIPLE SUCTION OUTLETS, WHETHER ISOLATED BY VALVES OR OTHERWISE, SHALL BE PROTECTED AGAINST USER ENTRAPMENT.

R326.5.1 COMPLIANCE. SUCTION OUTLETS SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF CPSC 15 USC 8003 AND ANSI/APSP/ICC 7, WHERE APPLICABLE.

R326.6 SUCTION OUTLETS. SUCTION OUTLETS SHALL BE DESIGNED TO PRODUCE CIRCULATION THROUGHOUT THE POOL OR SPA. SINGLE-OUTLET SYSTEMS, SUCH AS AUTOMATIC VACUUM CLEANER SYSTEMS, OR MULTIPLE SUCTION OUTLETS, WHETHER ISOLATED BY VALVES OR OTHERWISE, SHALL BE PROTECTED AGAINST USER ENTRAPMENT.

R326.6.1 COMPLIANCE ALTERNATIVE. SUCTION OUTLETS MAY BE DESIGNED AND INSTALLED IN ACCORDANCE WITH ANSI/APSP/ICC 7.

R326.6.2 SUCTION FITTINGS. POOL AND SPA SUCTION OUTLETS SHALL HAVE A COVER THAT CONFORMS TO ANSI/ASME A112.19.8, OR AN 18 INCH BY 23 INCH (457 MM BY 584 MM) DRAIN GRATE OR LARGER, OR AN APPROVED CHANNEL DRAIN SYSTEM. EXCEPTION: SURFACE SKIMMERS.

GENERAL POOL SANITARY NOTES:

- 1. SEASONAL DRAWDOWN:** AS SWIMMING POOLS MAY CONTAIN CHLORINE AND OTHER CHEMICALS THAT MAY BE CONSIDERED HARMFUL TO THE ENVIRONMENT, THE PROPOSED POOL SHALL HAVE AN ACCESSIBLE SEASONAL DRAWDOWN DISCHARGE PIPE LOCATED WITHIN 15 FEET OF THE PROPOSED POOL AND/OR POOL EQUIPMENT PAD.
- 2. IDENTIFICATION:** THE SEASONAL DRAWDOWN PIPE SHALL BE CLEARLY LABELED TO IDENTIFY THE LOCATION FOR USE BY OWNER AND POOL MAINTENANCE PERSONNEL.
- 3. POOL BACKWASH:** THE POOL SYTEM SHALL PROVIDE A HARD PIPE CONNECTION TO THE POOL DISCHARGE PIPE. FINAL CONFIGURATION TO BE DETERMINED BY THE POOL CONTRACTOR.
- 4. DRAINAGE CONNECTION:** CONNECTIONS FOR THE SEASONAL POOL DRAWDOWN AND THE POOL BACKWASH DISCHARGE PIPE SHALL BE HARD PIPED CONNECTIONS TO THE PROPERTY'S ONSITE DRAINAGE SYSTEM. ALL SUCH WORK SHALL BE PERFORMED BY A LICENSED PLUMBER AS REQUIRED BY CODE.

DAVID A. GOESSL, PE
CIVIL ENGINEER
 622 SPROUT BROOK ROAD
 PUTNAM VALLEY, NY 10579 (914) 227-0258

PROPOSED IN-GROUND SWIMMING POOL
 WITHIN A WETLAND CONTROLLED PROPERTY
 79 SOMERSTON ROAD, YORKTOWN, NY 10598

PREPARED BY: DAVID GOESSL, P.E. PREPARED FOR: D & F JENNINGS

DATE: OCTOBER 16, 2022 SCALE: NONE SHEET: 4 OF 4

| NO. | REVISION | DATE |
|-----|------------------------------------|----------|
| 1 | OWNER REVIEW AND COMMENTS | 10/22/22 |
| 2 | CONSERVATION BOARD COMMENTS | 11/18/22 |
| 3 | RIPARIAN BUFFER PLANTINGS PROPOSED | |
| | PLANNING BOARD COMMENTS | 12/6/22 |

DECISION OF THE ZONING BOARD OF APPEALS OF THE TOWN OF YORKTOWN

October 28, 2022

JENNINGS

#47/22

**Property Address: 79 Somerston Rd.
Section 17.10, Block 1, Lot 3**

This is an application to allow construction of an attached garage with a side yard setback of 8.5ft where 15ft is required, where a total of two sides is 22.3ft where 40ft is required, and a front yard setback of 35.09ft where 40ft is required as per section 300-21 and Appendix A of the Town Zoning Code. This property is located in a R1-20 Zone.

Mailings and sign certification are in order. Memo from the Assistant Building Inspector, dated September 15, 2022 states:

This is an application to allow construction of an attached garage where side yard variances are needed, one side is 8.5 ft. where 15 ft. is required and total of two sides is 22.3 ft. where 40 ft. is required. (Previous variance approved # 16/ 22) and a front yard variance of 35.09 ft. where 40 ft. is required for as per 300-21 and Appendix A of the Town Zoning Code. This property is located in a R1- 20 zone. I have inspected this property on September 15, 2022 and found no apparent violations. I have no objection granting relief for requested variances. The applicant will need a building permit and certificate of occupancy for this project.

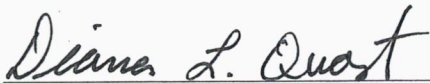
The Board grants the application to allow construction of an attached garage with a side yard setback of 8.5ft where 15ft is required, where a total of two sides is 22.3ft where 40ft is required, and a front yard setback of 35.09ft where 40ft is required as per section 300-21 and Appendix A of the Town Zoning Code. With the stipulation it pertains only to the requested variance and not the remainder of the property line, that the addition be built in substantial conformity to the plans submitted, and that this decision will void out the previous decision that was requested for the same project.

It is hereby determined that the above action is a SEQRA Type II Action, which action requires no further review.



Gordon B. Fine, Chairman
Zoning Board of Appeals

Filed on the ^{14th} day of
November, 2022.



Diana L. Quast
Town Clerk

**TOWN OF YORKTOWN - ENGINEERING DEPARTMENT
MS4 STORMWATER MANAGEMENT PERMIT APPLICATION
WETLAND PERMIT APPLICATION and/or TREE PERMIT APPLICATION**

Section 17.10
Block 10
Lot # 03

Approval Authority: TE PB TB
Application #: WP-BSUPP-038-22
Date Received: 11-9-22
Date Issued: _____
Date Expires: _____
Fee Paid: \$2,100

Job Site Address: 79 SOMERSTON RD
City/State/Zip: YORKTOWN, N.Y.
10598

NOTE: Application, Fee, Short/Long Form EAF, Map/Survey to be submitted to the Engineering

APPLICANT:

YOUR NAME: Fernando Sosa
COMPANY: Light Construction, Masonry & Blueprint
ADDRESS: 3868 VALLEY VIEW STREET
MOLLEGAN LAKE MA ZIP 10597
PHONE: (914) 490-1375
EMAIL: FERNANDO@LCACONSTRUCTION.COM

OWNER:

YOUR NAME: FRANK & DANIELE JAMES
COMPANY: PROPERTY OWNER.
ADDRESS: 79 SOMERSTON ROAD
YORKTOWN, N.Y. ZIP 10598
PHONE: (917) 217-8383
EMAIL: F50R55INC.COM

APPROVED PLANS AND PERMIT SHALL BE ON-SITE AT ALL TIMES

| Select One | Type | Approval Authority | Cost |
|-------------------------------------|---|---------------------------|-------------------|
| | Wetland/Watercourse/Buffer Area Permit (Administrative) | Town Engineer | \$800.00 |
| <input checked="" type="checkbox"/> | Wetland/Watercourse/Buffer Area Permit | Town Board/Planning Board | <u>\$1,800.00</u> |
| | Renewal of Wetlands/Watercourse/Buffer Area Permit (1 Year) | Town Engineer | \$150.00 |
| <input checked="" type="checkbox"/> | MS4 Stormwater Management Permit (Administrative) | Town Engineer | <u>\$300.00</u> |
| | MS4 Stormwater Management Permit | Town Board/Planning Board | \$1,500.00 |
| | Renewal of a MS4 Stormwater Management Permit (1 Year) | Town Engineer | \$150.00 |
| | Tree Permit | Town Engineer | \$0.00 |

Application fees are doubled with issuance of a Stop Work Order/Notice of Violation as per Town Code.

PROPOSED ACTIVITY - If not located in wetland/wetland buffer (skip to 2b)

1. Description of wetlands (check all that apply):

- a. Lake/pond _____ Control area of lake/pond _____
- b. Stream/River/Brook _____ Control area of stream/river/brook _____
- c. Wetlands _____ Control area of wetlands X

2a. Description of activity in the wetland and/or wetland buffer. Describe the proposed work including the following: i.e. maintenance, construction of dwelling, addition, driveway, culverts, including size and location.

Proposed activity includes installation of a perforated fiberglass in-ground swimming pool, equipment pad and related stormwater management system as required by code. Project is located within the 50 foot buffer area of a regulated wetland.

2b. Stormwater/Excavation - Description of proposed activity:

Stormwater mitigation and seasonal pool drawdown discharge is proposed to be handled through the installation of three culvert 15" x 15" infiltration unit. Total volume of all excavations is less than 200 cubic yards. Final grading shall be consistent w/ existing conditions. No importing of soils.

3. Tree Removal:

Amount of trees and/or stumps to be removed: N/A

Sizes; approximate DBH: _____

Species of trees to be removed (i.e. Birch, Spruce - if known): _____

Reason for removal: _____

Trees marked in field (trees must be marked prior to inspection): Yes: _____ No: _____

Tree removal contractor: N/A

Attach survey/sketch indicating property boundaries, existing structures, driveways, roadways and location of existing trees. Trees must be marked in the field before inspection.

4. PROPERTY OWNER CONSENT: If another entity (e.g. contractor, consultant) is applying on the owner's behalf, the PROPERTY OWNER is to complete, sign and date this authorization:

I, Danielle Jennings hereby authorize DAVID A. BOESSL, PE to apply for this Stormwater/Wetland Permit/Tree Permit on my behalf.

Signature: Danielle Jennings Date: 10/22/2022
Must be original signature. Digital signatures not accepted.

No application will be processed without the above-mentioned, required information.

GENERAL CONDITIONS

1. The permittee is responsible for maintaining an active application. If no activity occurs within a six (6) month period, as measured from the date of application, the application will become null and void. Applications fees are non-refundable.
2. The Town of Yorktown reserves the right to modify, suspend or revoke this permit at any time after due notice when:
 - a. Scope of the project is exceeded or a violation of any condition of the permit or provision of the law pertinent regulations are found; or
 - b. Permit was obtained by misrepresentation or failure to disclose relevant facts; or
 - c. Newly discovered information or significant physical changes are discovered.
3. The permittee is responsible for keeping the permit active by requesting renewal from the Approval Authority. Any supplemental information that may be required by the Approval Authority, including forms and fees, must be submitted 30 days prior to the expiration date. The expiration date is one year from the date the bond is paid to the Engineering Department. In accordance with Chapter 178 of the Town Code, Freshwater Wetlands, Section 178-16 -Expiration of a Permit.
4. This permit shall not be construed as conveying to the applicant any right to trespass upon private lands or interfere with the riparian rights of others in order to perform the permitted work or as authorizing the impairment of any right, title or interest in real or personal property held or vested in person not party to this permit.
5. The permittee is responsible for obtaining any other permits, approvals, easements and right-of-way, which may be required.
6. Any modification of this permit granted by the Approval Authority must be in writing and attached hereto.
7. Granting of this permit does not relieve the applicant of the responsibility of obtaining any other permission, consent or approval from the U.S. Army Corps of Engineers, N.Y.C. Department of Environmental Protection, N.Y.S. Department of Environmental Conservation or local government, which may be required.

Danielle Jennings
PRINT NAME

Danielle Jennings
SIGNATURE OF APPLICANT

10/22/2022
DATE

Must be original signature. Digital signatures not accepted.

617.20
Appendix B
Short Environmental Assessment Form

Instructions for Completing

Part 1 - Project Information. The applicant or project sponsor is responsible for the completion of Part 1. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification. Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information.

Complete all items in Part 1. You may also provide any additional information which you believe will be needed by or useful to the lead agency; attach additional pages as necessary to supplement any item.

| | | | |
|--|--|----------------------------------|---|
| Part 1 - Project and Sponsor Information | | | |
| Name of Action or Project: <i>Daniel & Frank Jennings</i> | | | |
| Project Location (describe, and attach a location map): <i>Proposed In-ground swimming pool w/ spa located at Butter-</i> | | | |
| <i>79 SUMERSTON ROAD, YORKTOWN, N.Y. 10598</i> | | | |
| Brief Description of Proposed Action: | | | |
| Name of Applicant or Sponsor: <i>Daniel & Frank Jennings</i> | | Telephone: <i>(917) 217-8383</i> | |
| | | E-Mail: <i>FJ@RSSINC.COM</i> | |
| Address: <i>79 SUMERSTON ROAD</i> | | | |
| City/PO: <i>Yorktown</i> | | State: <i>N.Y.</i> | Zip Code: <i>10598</i> |
| 1. Does the proposed action only involve the legislative adoption of a plan, local law, ordinance, administrative rule, or regulation? If Yes, attach a narrative description of the intent of the proposed action and the environmental resources that may be affected in the municipality and proceed to Part 2. If no, continue to question 2. | | | NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> |
| 2. Does the proposed action require a permit, approval or funding from any other governmental Agency? If Yes, list agency(s) name and permit or approval: | | | NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> |
| 3.a. Total acreage of the site of the proposed action? | | <i>0.91</i> acres | |
| b. Total acreage to be physically disturbed? | | <i>0.07</i> acres | |
| c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? | | <i>0.91</i> acres | |
| 4. Check all land uses that occur on, adjoining and near the proposed action. | | | |
| <input type="checkbox"/> Urban <input type="checkbox"/> Rural (non-agriculture) <input type="checkbox"/> Industrial <input type="checkbox"/> Commercial <input checked="" type="checkbox"/> Residential (suburban) <input type="checkbox"/> Forest <input type="checkbox"/> Agriculture <input type="checkbox"/> Aquatic <input type="checkbox"/> Other (specify): _____ <input type="checkbox"/> Parkland | | | |

| | | | |
|---|-------------------------------------|---|--|
| 5. Is the proposed action, a. A permitted use under the zoning regulations? | NO | YES | N/A |
| | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| b. Consistent with the adopted comprehensive plan? | NO | YES | N/A |
| | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 6. Is the proposed action consistent with the predominant character of the existing built or natural landscape? | NO | YES | |
| | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 7. Is the site of the proposed action located in, or does it adjoin, a state listed Critical Environmental Area? If Yes, identify: _____ | NO | YES | |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 8. a. Will the proposed action result in a substantial increase in traffic above present levels? | NO | YES | |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| | | | |
| b. Are public transportation service(s) available at or near the site of the proposed action? | NO | YES | |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c. Are any pedestrian accommodations or bicycle routes available on or near site of the proposed action? | NO | YES | |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 9. Does the proposed action meet or exceed the state energy code requirements? If the proposed action will exceed requirements, describe design features and technologies: _____ | NO | YES | |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <i>n/a</i> |
| 10. Will the proposed action connect to an existing public/private water supply? If No, describe method for providing potable water: _____ | NO | YES | |
| | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 11. Will the proposed action connect to existing wastewater utilities? If No, describe method for providing wastewater treatment: _____ | NO | YES | |
| | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 12. a. Does the site contain a structure that is listed on either the State or National Register of Historic Places? | NO | YES | |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b. Is the proposed action located in an archeological sensitive area? | NO | YES | |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 13. a. Does any portion of the site of the proposed action, or lands adjoining the proposed action, contain wetlands or other waterbodies regulated by a federal, state or local agency? | NO | YES | |
| | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| b. Would the proposed action physically alter, or encroach into, any existing wetland or waterbody? If Yes, identify the wetland or waterbody and extent of alterations in square feet or acres: _____ | NO | YES | |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <i>ACTED IS WITHIN WETLAND BUFFER AREA</i> |
| 14. Identify the typical habitat types that occur on, or are likely to be found on the project site. Check all that apply: <input type="checkbox"/> Shoreline <input type="checkbox"/> Forest <input type="checkbox"/> Agricultural/grasslands <input type="checkbox"/> Early mid-successional <input type="checkbox"/> Wetland <input type="checkbox"/> Urban <input checked="" type="checkbox"/> Suburban | | | |
| 15. Does the site of the proposed action contain any species of animal, or associated habitats, listed by the State or Federal government as threatened or endangered? | NO | YES | |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 16. Is the project site located in the 100 year flood plain? | NO | YES | |
| | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 17. Will the proposed action create storm water discharge, either from point or non-point sources? If Yes, | NO | YES | |
| | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| a. Will storm water discharges flow to adjacent properties? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES | | | |
| b. Will storm water discharges be directed to established conveyance systems (runoff and storm drains)? If Yes, briefly describe: _____ | | | |
| | <input type="checkbox"/> NO | <input checked="" type="checkbox"/> YES | |
| <i>PROPOSED IMPROVEMENT FACILITY STORMWATER MANAGEMENT SYSTEM FOR FLOOD DRAINAGE</i> | | | |

| | | |
|---|-------------------------------------|--------------------------|
| 18. Does the proposed action include construction or other activities that result in the impoundment of water or other liquids (e.g. retention pond, waste lagoon, dam)? If Yes, explain purpose and size: _____ | NO | YES |
| _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 19. Has the site of the proposed action or an adjoining property been the location of an active or closed solid waste management facility? If Yes, describe: _____ | NO | YES |
| _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 20. Has the site of the proposed action or an adjoining property been the subject of remediation (ongoing or completed) for hazardous waste? If Yes, describe: _____ | NO | YES |
| _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| I AFFIRM THAT THE INFORMATION PROVIDED ABOVE IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE | | |
| Applicant/sponsor name: <u>Diana M. Gessse</u> | Date: <u>10/22/22</u> | |
| Signature: <u>[Handwritten Signature]</u> | | |

Part 2 - Impact Assessment. The Lead Agency is responsible for the completion of Part 2. Answer all of the following questions in Part 2 using the information contained in Part 1 and other materials submitted by the project sponsor or otherwise available to the reviewer. When answering the questions the reviewer should be guided by the concept "Have my responses been reasonable considering the scale and context of the proposed action?"

| | No, or small impact may occur | Moderate to large impact may occur |
|--|-------------------------------|------------------------------------|
| 1. Will the proposed action create a material conflict with an adopted land use plan or zoning regulations? | | |
| 2. Will the proposed action result in a change in the use or intensity of use of land? | | |
| 3. Will the proposed action impair the character or quality of the existing community? | | |
| 4. Will the proposed action have an impact on the environmental characteristics that caused the establishment of a Critical Environmental Area (CEA)? | | |
| 5. Will the proposed action result in an adverse change in the existing level of traffic or affect existing infrastructure for mass transit, biking or walkway? | | |
| 6. Will the proposed action cause an increase in the use of energy and it fails to incorporate reasonably available energy conservation or renewable energy opportunities? | | |
| 7. Will the proposed action impact existing: a. public / private water supplies? b. public / private wastewater treatment utilities? | | |
| 8. Will the proposed action impair the character or quality of important historic, archaeological, architectural or aesthetic resources? | | |
| 9. Will the proposed action result in an adverse change to natural resources (e.g., wetlands, waterbodies, groundwater, air quality, flora and fauna)? | | |

| | No, or small impact may occur | Moderate to large impact may occur |
|---|-------------------------------|------------------------------------|
| 10. Will the proposed action result in an increase in the potential for erosion, flooding or drainage problems? | | |
| 11. Will the proposed action create a hazard to environmental resources or human health? | | |

Part 3 - Determination of significance. The Lead Agency is responsible for the completion of Part 3. For every question in Part 2 that was answered "moderate to large impact may occur", or if there is a need to explain why a particular element of the proposed action may or will not result in a significant adverse environmental impact, please complete Part 3. Part 3 should, in sufficient detail, identify the impact, including any measures or design elements that have been included by the project sponsor to avoid or reduce impacts. Part 3 should also explain how the lead agency determined that the impact may or will not be significant. Each potential impact should be assessed considering its setting, probability of occurring, duration, irreversibility, geographic scope and magnitude. Also consider the potential for short-term, long-term and cumulative impacts.

- Check this box if you have determined, based on the information and analysis above, and any supporting documentation, that the proposed action may result in one or more potentially large or significant adverse impacts and an environmental impact statement is required.
- Check this box if you have determined, based on the information and analysis above, and any supporting documentation, that the proposed action will not result in any significant adverse environmental impacts.

Name of Lead Agency _____ Date

Print or Type Name of Responsible Officer in Lead Agency _____ Title of Responsible Officer

Signature of Responsible Officer in Lead Agency _____ Signature of Preparer (if different from Responsible Officer)

SDML Realty
Dunkin Rt. 202



Yorktown Town Hall
363 Underhill Avenue, P.O. Box 703
Yorktown Heights, NY 10598

(914) 962-5722
www.yorktownny.org

November 16, 2022

Reuben Buck
Engineering & Surveying Properties, P.C.
reuben@ep-pc.com


Subject: SDML Realty, LLC
Dunkin Route 202
3735 Crompond Road
35.08-1-11, 14, 15, 23

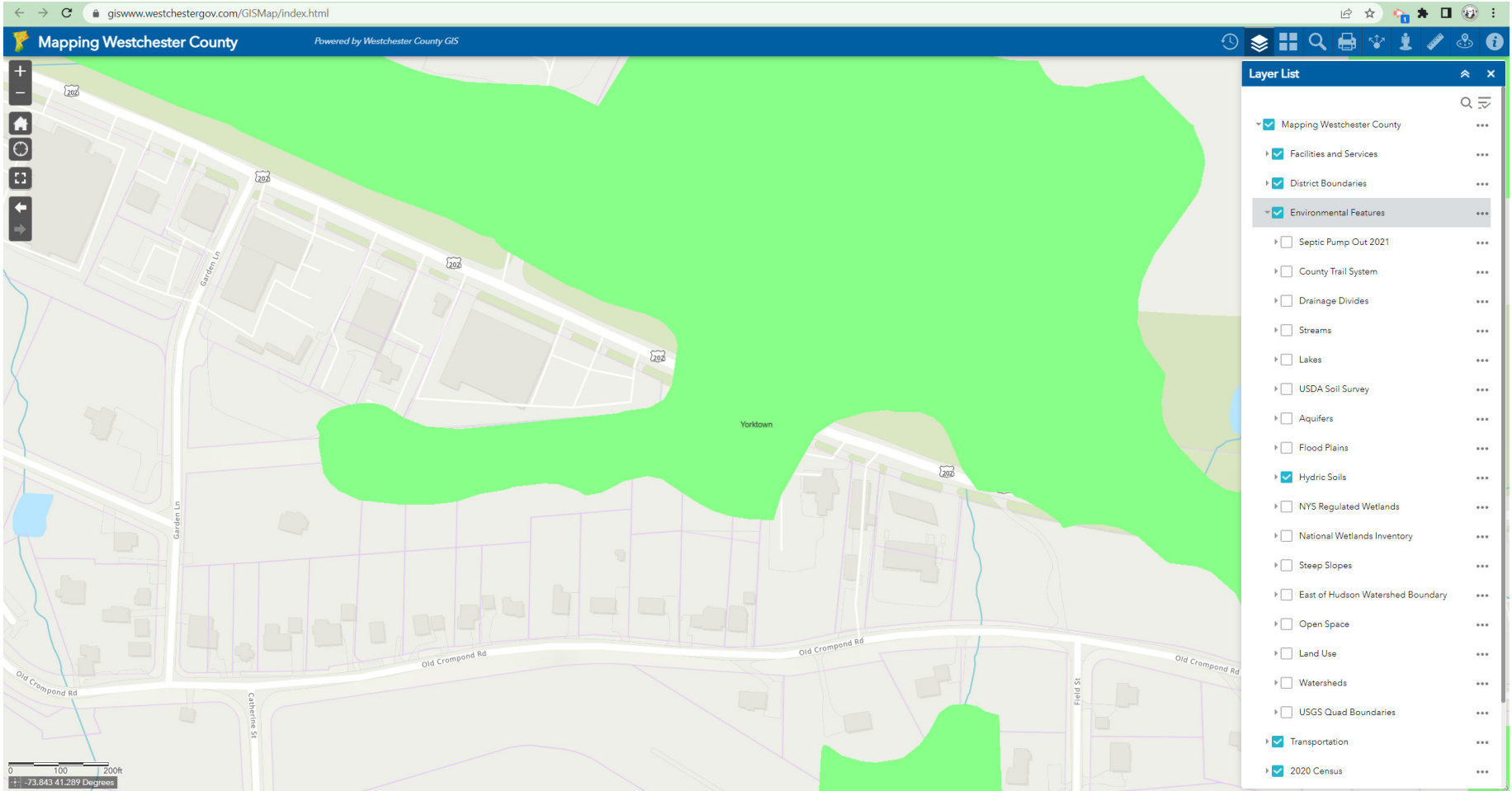
Dear Mr. Buck,

At its meeting on November 14, 2022, the Planning Board reviewed the subject project and had the following comments:

1. The Board preferred the angled parking sketch however they felt there were a lot of parking spaces. Submit floor plans to the Planning Department to determine the required parking for the site. Submit parking data from similar sized Dunkin locations to determine how many parking spaces are typically needed.
2. Investigate relocating the loading space and trash enclosure away from the rear property line that is shared with existing residences.
3. Confirm wetlands were flagged pursuant to Town Code Chapter 178 Wetlands. Town resource maps indicate a larger portion of the lots contain wetland soils. The wetland delineation must be verified by the Town's consultant at the applicant's expense. Once a wetland delineation report and map are received, this process can be started. A copy of this area from the Westchester County GIS Mapping Westchester County web app is attached.
4. Submit a formal site plan application, Short EAF, and application fees according to the attached fee schedule. The drive-thru window requires a special use permit for outdoor service.

Sincerely,


Robyn A. Steinberg, AICP, CPESC
Town Planner





Montgomery Office:

71 Clinton Street
Montgomery, NY 12549

Goshen Office:

262 Greenwich Ave, Ste B
Goshen, NY 10924

(845) 457 - 7727

www.EngineeringPropertiesPC.com

November 30, 2022

Town of Yorktown Planning Board
1974 Commerce Street, Room 222
Yorktown Heights, NY 10598

RECEIVED
PLANNING DEPARTMENT

NOV 30 2022

TOWN OF YORKTOWN

ATTN: Richard Fon, Chairman

**RE: W.O. # 1932.01
ROUTE 202 DUNKIN
3735 CROMPOND ROAD
COMMENT RESPONSE LETTER**

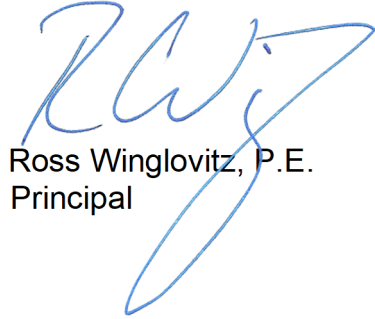
Dear Chairman Fon and Members of the Board,

We are in receipt of the comment memo regarding the above-mentioned project dated November 16, 2022, from Robyn A. Steinberg, AICP, CPESC, Town Planner. Below is a comment-by-comment response:

1. The angled parking has been maintained in the attached sketch plan however the total number of parking spaces have been reduced. Floor plans were submitted to the Town Planner and are attached as part of this submission. Based on the applicant's experience as a Dunkin franchisee the parking has been reduced to twenty-four spaces on the western side of the establishment for customer use and seven spaces on the eastern side of the establishment for employee use.
2. The loading space and trash enclosure have been relocated away from the rear property line that is shared with existing residences. Two turning figures are attached as part of this submission. Figure F-1 depicts the turning movements of a box truck which will be used to deliver donuts daily overnight. Figure F-2 depicts the turning movements of a tractor trailer which will be used to make deliveries twice a week during the day.
3. Our office has requested that James Bates, Ecological Analysis LLC, review the wetland delineation performed by ERS Consultants and provide a wetland delineation report and schedule a site visit to confirm wetlands were flagged pursuant to Town Code Chapter 178.
4. Please find attached a formal site plan application, Short EAF, and application fees.

If you have any additional questions and/or comments please don't hesitate to contact this office.

Sincerely,
Engineering & Surveying Properties, PC



Ross Winglovitz, P.E.
Principal

Reuben Buck
Project Engineer

NOV 30 2022

TOWN OF YORKTOWN

TOWN OF YORKTOWN PLANNING BOARD

Albert A. Capellini Community and Cultural Center, 1974 Commerce Street, Yorktown Heights, New York 10598. Phone (914) 962-6565, Fax (914) 962-3986

APPLICATION FOR SITE PLAN APPROVAL

Date 11/17/2022

1. Name of Project: Route 202 Dunkin

2. Tax Map Designation (Section, Block, Lot) 35.08-1-11, 14, 15 & 23

3. Zone: C-4 Total Acreage: ±1.357

4. Is a statement of easements relating to property attached? Yes None exist

5. Project narrative (brief description of proposed development):

The proposed action consists of a lot consolidation of tax lots 35.08-1-11, 14, 15 & 23 and the construction of a ±3,069 SF Dunkin establishment with associated parking, drive-thru and loading area.

6. Contact Person - CHOOSE ONLY ONE:

Applicant Owner Architect Wetland Scientist
 Attorney Engineer Surveyor Landscape Architect

7. Applicant

Name Paul Sardinha
Firm SDML Realty, LLC
Address 121 Paulding Lane, Crompond, NY 10517
Phone 914-844-3978
Fax _____
Email dunkinyorktown@gmail.com

8. Owner of Record

Name Same as applicant
Firm _____
Address _____
Phone _____
Fax _____
Email _____

9. Attorney

Name None
Firm _____
Address _____
Phone _____
Fax _____
Email _____

10. Engineer

Name Ross Winglovitz
Firm Engineering & Surveying Properties, PC
Address 71 Clinton Street, Montgomery, NY 12549
Phone 845-457-7727
Fax _____
Email ross@ep-pc.com
Lic. No. 071701

11. Surveyor

Name Brian Babcock
Firm Engineering & Surveying Properties, PC
Address 71 Clinton Street, Montgomery, NY 12549
Phone 845-457-7727
Fax _____
Email brian@ep-pc.com
Lic. No. 050830

12. Architect

Name Gary Kliesch
Firm GK+A Architects, PC
Address 36 Ames Avenue, Rutherford, NJ 07070
Phone 201-896-0333
Fax _____
Email gkliesch@gkanda.biz
Lic. No. 025618

13. Wetland Scientist/Specialist

Name _____
Firm _____
Address _____
Phone _____
Fax _____
Email _____

14. Landscape Architect

Name Steven Esposito
Firm Engineering & Surveying Properties, PC
Address 71 Clinton Street, Montgomery, NY 12549
Phone 845-457-7727
Fax _____
Email steve@ep-pc.com
Lic. No. 001169

15. Is this project within 500 feet of the Town line? Yes No

16. Is this project within 500 feet of the Putnam County line? Yes No

17. Is this project within the Sustainable Development Study Area? Yes No

18. Is this project within 500 feet of:

The right-of-way of any existing or proposed state or county road? Yes No

The boundary of an existing or proposed state or county park or any state or county recreation area? Yes No

The boundary of state or county-owned land on which a public building/ institution is located? Yes No

An existing or proposed county drainage line? Yes No

The boundary of a farm located in an agricultural district? Yes No

19. Does the entire development plan for this project propose the disturbance of more than 5,000 SF of land? Note: If project is phased, include all phases in determination. Yes No

20. This project requires the following permits or approvals from the Town of Yorktown:

Wetland Permit

Stormwater Permit

Tree Permit

Planning Board special permit: §300-21(8)(a)[1]

Town Board variance or approval: _____

Zoning Board of Appeals variance or special permit: _____

21. This project requires the following permits or approvals from other outside agencies:

- Westchester County Board of Health
- NYC DEP
- NYS DEC
- Other: _____

22. This parcel is in the following districts:

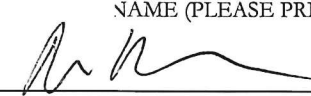
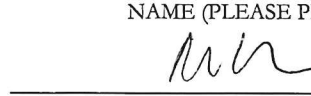
| | | | |
|-----------------|-----------------|----------------|---------------------------|
| School District | <u>Yorktown</u> | Water District | <u>Consolidated WD #1</u> |
| Fire District | <u>Mohegan</u> | Sewer District | <u>Peekskill</u> |

A Short or Full EAF with the original signature of the applicant must be attached to this application when submitted.

The applicant agrees to comply with the requirements of the Road Specifications, the Land Use Regulations, Zoning Ordinance, Tree Removal and Excavation ordinance, and any additions or amendments thereto.

The applicant agrees to execution and delivery of deeds and required documents for reserved parks/recreation/open space/drainage control, roads and road widening strips and descriptions of easements at the time of the public hearing. Such execution and delivery shall not operate to vest title of said property in the Town of Yorktown until such dedication is accepted in the form of a resolution adopted by the Town Board at a regular meeting of said Board.

The execution and delivery of the deeds to the roads in the proposed subdivision as provided for by the terms of the deeds to the roads in the proposed subdivision as provided for by the terms of the approving resolution shall not operate to vest title of said roads in the Town of Yorktown until such deed is accepted in the form of a resolution adopted by the Town Board at regular meeting of said Board.

| | |
|--|---|
| Applicant | Owner of Record |
| <u>PAUL H. SARDINHA</u> NAME (PLEASE PRINT) | <u>PAUL H. SARDINHA</u> NAME (PLEASE PRINT) |
|  SIGNATURE |  SIGNATURE |
| <u>11/18/2022</u> DATE | <u>11/18/2022</u> DATE |

Note: If the property owner is not the applicant for this application, in addition to the signature above, the owner of the property must also complete and have notarized one of the owner affidavits on the following page.

Note: By signing this document the owner of the subject property grants permission for Town Officials to enter the property for the purpose of reviewing this application.

REFER TO AFFIDAVITS ON THE FOLLOWING PAGES

ONE OF THE FOLLOWING AFFIDAVITS MUST BE COMPLETED

AFFIDAVIT TO BE COMPLETED BY OWNER, OTHER THAN CORPORATION

STATE OF NEW YORK; COUNTY OF WESTCHESTER SS.:

_____, being duly sworn, deposes and says that he is the owner in fee of the property described in the foregoing application for consideration of preliminary plat, and that the statements contained therein are true to the best of his knowledge and belief.

Sworn before me this _____ date of _____, 20__

Notary Public

AFFIDAVIT TO BE COMPLETED BY CORPORATION OWNER

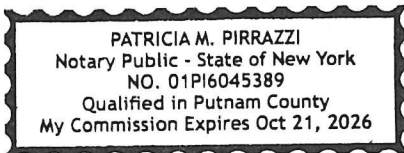
STATE OF NEW YORK; COUNTY OF WESTCHESTER SS.:

Paul Sardinha _____, being duly sworn, deposes and says that he resides at 121 Paulding Lane in the County of Westchester and State of New York. That he is the Manager of SDML Realty, LLC _____ the corporation which is owner in fee of the property described in the foregoing application for SDML Yorktown Dunkin _____ and that the statements contained therein are true to the best of his knowledge and belief.

Sworn before me this 15th date of November, 20 22



Notary Public



AFFIDAVIT TO BE COMPLETED BY AGENT OF OWNER

STATE OF NEW YORK; COUNTY OF WESTCHESTER SS. :

_____, being duly sworn, deposes and says that he is the agent named in the foregoing application for _____ and that he has been duly authorized by the owner in fee to make such application and that foregoing statements are true to the best of his knowledge and belief.

Sworn before me this _____ date of _____, 20 __

Notary Public

F:\Office\WordPerfect\APPLICATION FORMS\APPSITEPLAN.wpd
Last updated: December 2011

NOV 30 2022

TOWN OF YORKTOWN

Short Environmental Assessment Form

Part 1 - Project Information

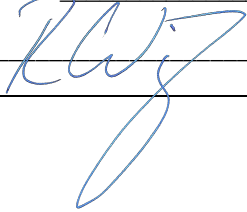
Instructions for Completing

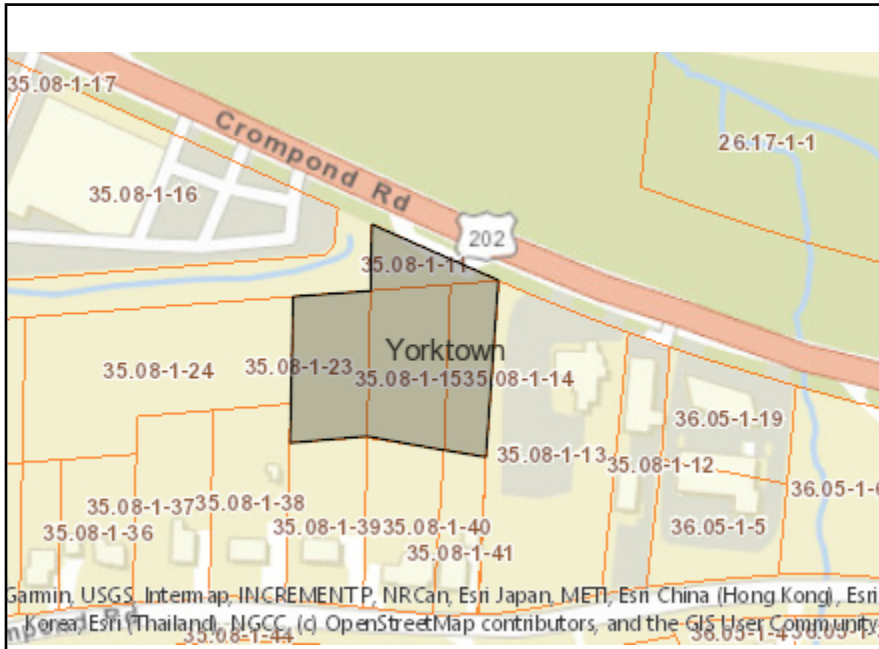
Part 1 – Project Information. The applicant or project sponsor is responsible for the completion of Part 1. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification. Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information.

Complete all items in Part 1. You may also provide any additional information which you believe will be needed by or useful to the lead agency; attach additional pages as necessary to supplement any item.

| Part 1 – Project and Sponsor Information | | | |
|--|--------------|----------------------------------|--|
| Name of Action or Project: Route 202 Dunkin | | | |
| Project Location (describe, and attach a location map): 3735 Crompond Road, Cortlandt, NY 10567 | | | |
| Brief Description of Proposed Action: The proposed action consists of a lot consolidation of tax lots 35.08-1-11, 14, 15 & 23 and the construction of a ±3069 square-foot Dunkin Donuts establishment with associated parking, drive-thru and loading area. | | | |
| Name of Applicant or Sponsor: SDML Realty, LLC | | Telephone: 914-844-3978 | |
| Address: 121 Paulding Lane | | E-Mail: dunkinyorktown@gmail.com | |
| City/PO: Crompond | State: NY | Zip Code: 10517 | |
| 1. Does the proposed action only involve the legislative adoption of a plan, local law, ordinance, administrative rule, or regulation? If Yes, attach a narrative description of the intent of the proposed action and the environmental resources that may be affected in the municipality and proceed to Part 2. If no, continue to question 2. | | NO <input type="checkbox"/> | YES <input type="checkbox"/> |
| 2. Does the proposed action require a permit, approval or funding from any other government Agency? If Yes, list agency(s) name and permit or approval: NYSDOT Entrance Approval | | NO <input type="checkbox"/> | YES <input checked="" type="checkbox"/> |
| 3. a. Total acreage of the site of the proposed action? | | ±1.40 acres | |
| b. Total acreage to be physically disturbed? | | ±0.87 acres | |
| c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? | | ±1.40 acres | |
| 4. Check all land uses that occur on, are adjoining or near the proposed action: | | | |
| 5. <input type="checkbox"/> Urban <input type="checkbox"/> Rural (non-agriculture) <input type="checkbox"/> Industrial <input checked="" type="checkbox"/> Commercial <input checked="" type="checkbox"/> Residential (suburban) | | | |
| <input checked="" type="checkbox"/> Forest <input type="checkbox"/> Agriculture <input type="checkbox"/> Aquatic <input type="checkbox"/> Other(Specify): | | | |
| <input type="checkbox"/> Parkland | | | |

| 5. Is the proposed action, | NO | YES | N/A |
|---|---|---|--------------------------|
| a. A permitted use under the zoning regulations? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| b. Consistent with the adopted comprehensive plan? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 6. Is the proposed action consistent with the predominant character of the existing built or natural landscape? | NO <input type="checkbox"/> | YES <input checked="" type="checkbox"/> | |
| 7. Is the site of the proposed action located in, or does it adjoin, a state listed Critical Environmental Area? If Yes, identify: _____ | NO <input checked="" type="checkbox"/> | YES <input type="checkbox"/> | |
| 8. a. Will the proposed action result in a substantial increase in traffic above present levels? b. Are public transportation services available at or near the site of the proposed action? c. Are any pedestrian accommodations or bicycle routes available on or near the site of the proposed action? | NO <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> | YES <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | |
| 9. Does the proposed action meet or exceed the state energy code requirements? If the proposed action will exceed requirements, describe design features and technologies: _____ _____ | NO <input type="checkbox"/> | YES <input checked="" type="checkbox"/> | |
| 10. Will the proposed action connect to an existing public/private water supply? If No, describe method for providing potable water: _____ _____ | NO <input type="checkbox"/> | YES <input checked="" type="checkbox"/> | |
| 11. Will the proposed action connect to existing wastewater utilities? If No, describe method for providing wastewater treatment: _____ _____ | NO <input type="checkbox"/> | YES <input checked="" type="checkbox"/> | |
| 12. a. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on the National or State Register of Historic Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places? 11918.000123 (3605 Crompond Road, Yorktown, NY) Building - Not Eligible located 1,500 feet east of project site. b. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory? | NO <input checked="" type="checkbox"/> <input type="checkbox"/> | YES <input type="checkbox"/> <input checked="" type="checkbox"/> | |
| 13. a. Does any portion of the site of the proposed action, or lands adjoining the proposed action, contain wetlands or other waterbodies regulated by a federal, state or local agency? b. Would the proposed action physically alter, or encroach into, any existing wetland or waterbody? If Yes, identify the wetland or waterbody and extent of alterations in square feet or acres: _____ _____ _____ | NO <input type="checkbox"/> <input checked="" type="checkbox"/> | YES <input checked="" type="checkbox"/> <input type="checkbox"/> | |

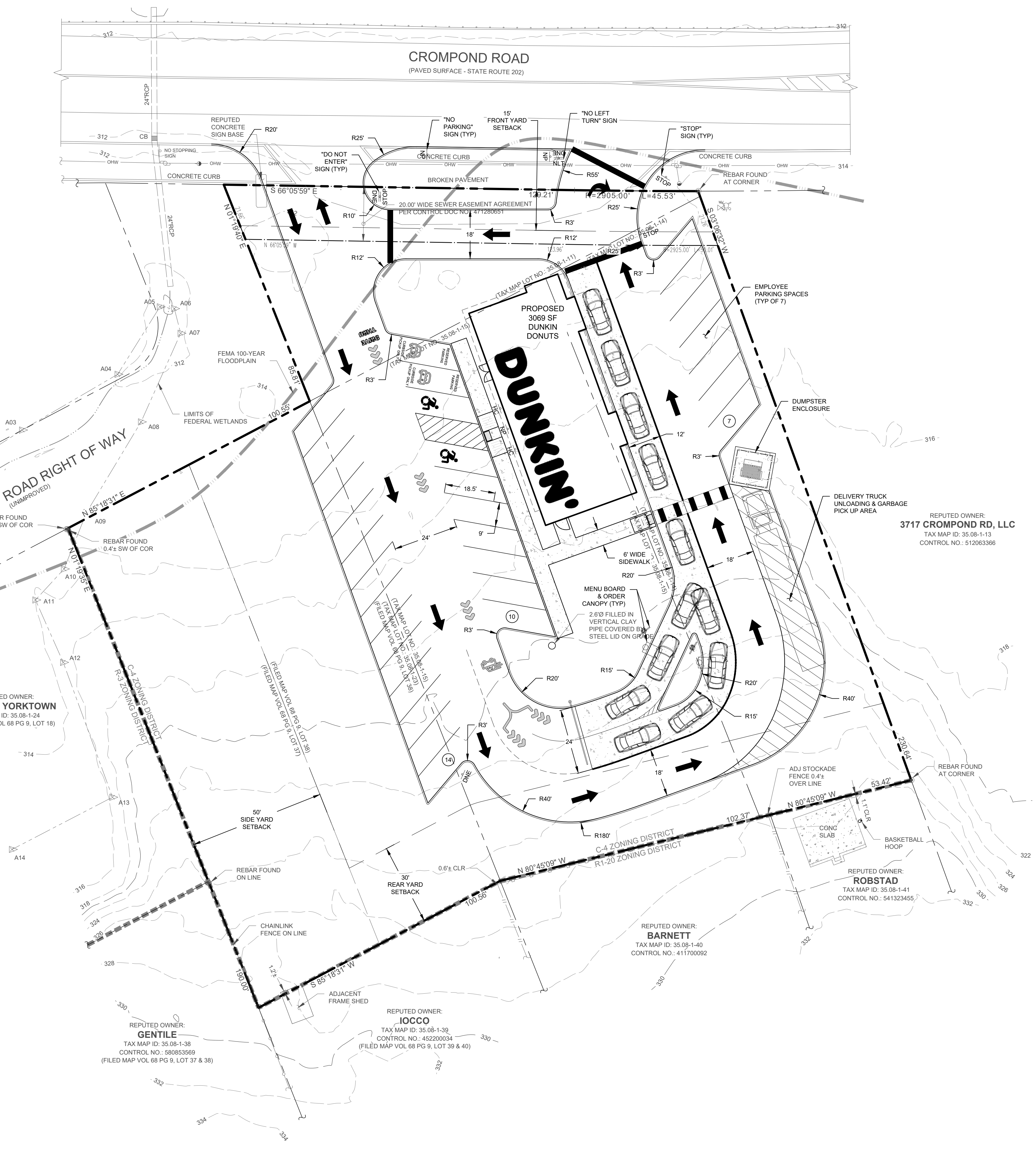
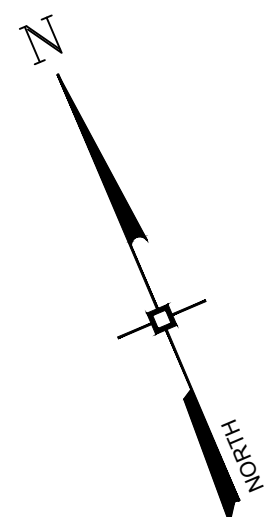
| | | |
|--|-------------------------------------|-------------------------------------|
| 14. Identify the typical habitat types that occur on, or are likely to be found on the project site. Check all that apply: | | |
| <input type="checkbox"/> Shoreline <input checked="" type="checkbox"/> Forest <input type="checkbox"/> Agricultural/grasslands <input type="checkbox"/> Early mid-successional <input checked="" type="checkbox"/> Wetland <input type="checkbox"/> Urban <input checked="" type="checkbox"/> Suburban | | |
| 15. Does the site of the proposed action contain any species of animal, or associated habitats, listed by the State or Federal government as threatened or endangered? | NO | YES |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 16. Is the project site located in the 100-year flood plan? | NO | YES |
| | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 17. Will the proposed action create storm water discharge, either from point or non-point sources? | NO | YES |
| If Yes, | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| a. Will storm water discharges flow to adjacent properties? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| b. Will storm water discharges be directed to established conveyance systems (runoff and storm drains)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| If Yes, briefly describe: | | |
| _____ | | |
| Stormwater will flow to proposed stormwater infrastructure onsite. | | |
| _____ | | |
| 18. Does the proposed action include construction or other activities that would result in the impoundment of water or other liquids (e.g., retention pond, waste lagoon, dam)? | NO | YES |
| If Yes, explain the purpose and size of the impoundment: _____ | | |
| Stormwater detention | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| _____ | | |
| 49. Has the site of the proposed action or an adjoining property been the location of an active or closed solid waste management facility? | NO | YES |
| If Yes, describe: _____ | | |
| _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| _____ | | |
| 20. Has the site of the proposed action or an adjoining property been the subject of remediation (ongoing or completed) for hazardous waste? | NO | YES |
| If Yes, describe: _____ | | |
| _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| _____ | | |
| I CERTIFY THAT THE INFORMATION PROVIDED ABOVE IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE Preparer Applicant/sponsor/name: Engineering & Surveying Properties, PC C/O Ross Winglovitz Date: 09/01/2022 Signature:  _____ Title: Principal | | |



Disclaimer: The EAF Mapper is a screening tool intended to assist project sponsors and reviewing agencies in preparing an environmental assessment form (EAF). Not all questions asked in the EAF are answered by the EAF Mapper. Additional information on any EAF question can be obtained by consulting the EAF Workbooks. Although the EAF Mapper provides the most up-to-date digital data available to DEC, you may also need to contact local or other data sources in order to obtain data not provided by the Mapper. Digital data is not a substitute for agency determinations.

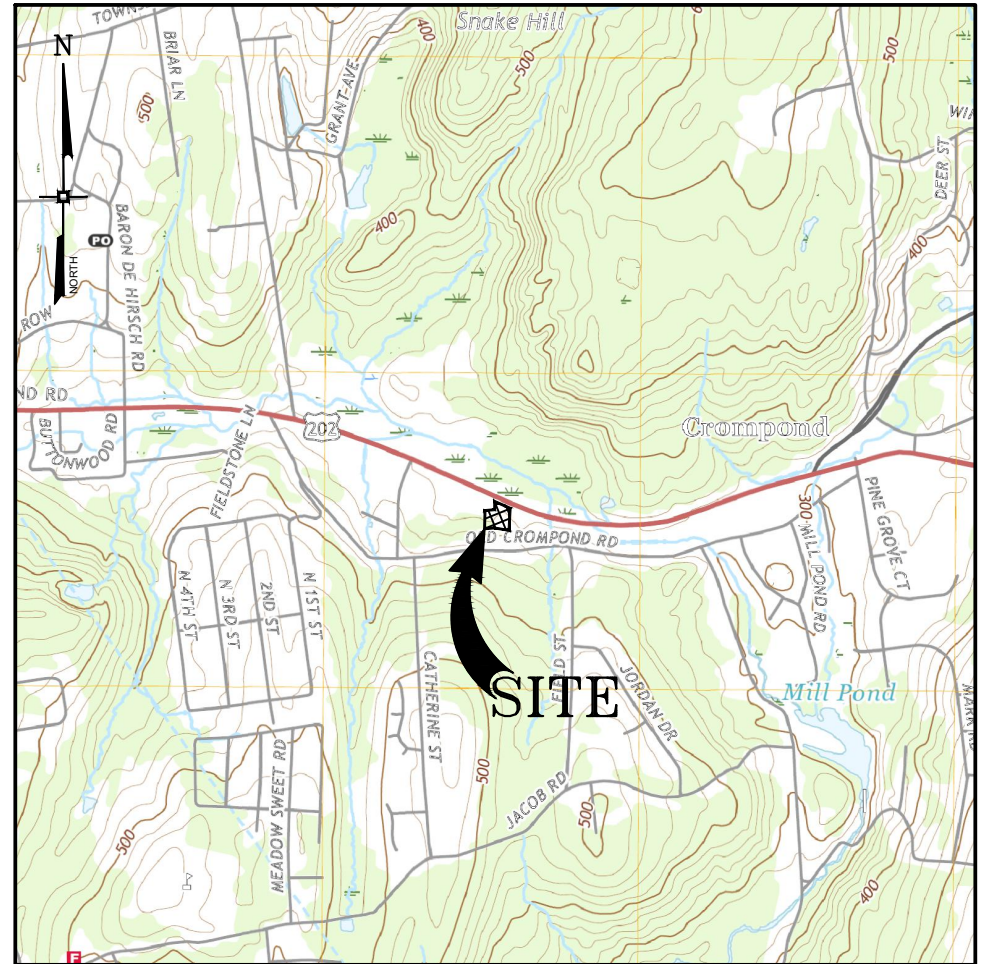


| | |
|---|---|
| Part 1 / Question 7 [Critical Environmental Area] | No |
| Part 1 / Question 12a [National or State Register of Historic Places or State Eligible Sites] | No |
| Part 1 / Question 12b [Archeological Sites] | Yes |
| Part 1 / Question 13a [Wetlands or Other Regulated Waterbodies] | Yes - Digital mapping information on local and federal wetlands and waterbodies is known to be incomplete. Refer to EAF Workbook. |
| Part 1 / Question 15 [Threatened or Endangered Animal] | No |
| Part 1 / Question 16 [100 Year Flood Plain] | Yes |
| Part 1 / Question 20 [Remediation Site] | No |



GENERAL NOTES

- 1. TAX MAP IDENTIFICATION NUMBER: SECTION 35.08 BLOCK 1 LOTS 11, 14, 15 & 23
- 2. TOTAL AREA OF SUBJECT PARCELS: 1.357± ACRES.
- 3. BOUNDARY AND PLANIMETRIC INFORMATION BASED UPON FIELD SURVEY AS PERFORMED BY ENGINEERING & SURVEYING PROPERTIES PC ON OCTOBER 21, 2022.
- 4. THE TOPOGRAPHY SHOWN HEREON WAS COMPILED BY ENGINEERING & SURVEYING PROPERTIES PC, FROM USGS 1M HYDRO-FLATTENED DIGITAL ELEVATION MODELS (DEMS) AS DERIVED FROM 2012 SOURCE LIDAR. THE DEMS WERE PROVIDED BY NYS GIS.GOV AND CORRESPOND TO ACTUAL SURVEY OBSERVATIONS TAKEN IN THE FIELD. CONTOURS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988.
- 5. OWNER / APPLICANT: SDML REALTY, LLC
PO BOX 755
CROMPOND, NY 10517
- 6. THE PROPOSED LOT SHALL BE SERVICED BY PUBLIC WATER AND SEWER SERVICES.
- 7. WETLAND BOUNDARY AS PER FIELD DELINEATION BY ERS CONSULTANTS ON JULY 13, 2022 AND FIELD LOCATED BY ENGINEERING & SURVEYING PROPERTIES, PC ON JULY 20, 2022.
- 8. APPROXIMATE SIZE AND LOCATION OF FEMA 100-YEAR FLOODPLAIN TAKEN FROM THE FEDERAL EMERGENCY MANAGEMENT (FEMA) FLOOD INSURANCE RATE MAP, WESTCHESTER COUNTY, COMMUNITY: TOWN OF CORTLANDT AND YORKTOWN, NUMBER 36119C0036F, PANEL NUMBER 36 OF 426, EFFECTIVE DATE: SEPTEMBER 28, 2007.



LOCATION MAP

SCALE: 1" = 2000'

BULK REQUIREMENTS

TOWN OF YORKTOWN - ZONING DISTRICT C-4
PROPOSED USE: DRIVE-THRU (USE §300 ATCH 2)

| MINIMUM BUILDING REQUIREMENTS | REQUIRED | PROPOSED |
|-------------------------------|----------|------------|
| LOT AREA | NONE | 59,110 SF |
| LOT WIDTH | 25 FEET | 173.5 FEET |
| LOT DEPTH | 100 FEET | 263.9 FEET |
| FRONT YARD | 15 FEET | 31.4 FEET |
| REAR YARD | 30 FEET | 130.5 FEET |
| SIDE YARD * | 50 FEET | 63.8 FEET |

MAXIMUM ALLOWABLE

| | | |
|--------------------------|-------|---------|
| BUILDING HEIGHT | 35 FT | 28.0 FT |
| LOT COVERAGE (BUILDINGS) | 30 % | 5.2 % |

* NONE, BUT IF PROPERTY ADJOINS AN R DISTRICT, SHALL BE 50 FEET.

PARKING REQUIREMENTS

TOWN OF YORKTOWN - ZONING DISTRICT C-4
PROPOSED USE: DRIVE-THRU (USE §300-182(A)(5))

| | |
|----------------------------------|-------------|
| BUILDING AREA: | |
| AREA DEVOTED TO PATRON USE | 1,130 SF |
| AREA DEVOTED TO FOOD PREPARATION | 1,783 SF |
| TOTAL BUILDING AREA | 2,913 SF |
| PARKING SPACES REQUIRED: | |
| 1,130 SF x 1 SPACE PER 50 SF = | 23 SPACES |
| 1,783 SF x 1 SPACE PER 100 SF = | 18 SPACES |
| TOTAL SPACES REQUIRED: | 41 SPACES |
| TOTAL SPACES PROVIDED: | 31 SPACES * |

* WAIVER REQUESTED FROM TOTAL REQUIRED PARKING SPACES.

LOADING REQUIREMENTS

TOWN OF YORKTOWN - ZONING DISTRICT C-4
PROPOSED USE: DRIVE-THRU (USE §300-186(A)(1))

| | |
|---|----------|
| BUILDING AREA: | 2,913 SF |
| LOADING SPACES REQUIRED: | |
| FIRST 4,000 SF x 1 SPACE = | 1 SPACE |
| 1 ADDITIONAL SPACE FOR EACH 40,000 SF = | 0 SPACES |
| TOTAL SPACES REQUIRED: | 1 SPACE |
| TOTAL SPACES PROVIDED: | 1 SPACE |

| No. | DATE | DESCRIPTION |
|-----|------|-------------|
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| DRAWING STATUS | ISSUE DATE: |
|---|--------------|
| THIS SHEET IS PART OF THE PLAN SET ISSUED FOR | 11/16/22 |
| | SHEET NUMBER |
| <input checked="" type="checkbox"/> CONCEPT APPROVAL | 1 OF 1 |
| <input type="checkbox"/> PLANNING BOARD APPROVAL | N/A OF N/A |
| <input type="checkbox"/> WCDOH REALTY SUBDIVISION APPROVAL | N/A OF N/A |
| <input type="checkbox"/> WCDOH WATERMAIN EXTENSION APPROVAL | N/A OF N/A |
| <input type="checkbox"/> NYSDEC APPROVAL | N/A OF N/A |
| <input type="checkbox"/> NYSDOT APPROVAL | N/A OF N/A |
| <input type="checkbox"/> OTHER | N/A OF N/A |
| <input type="checkbox"/> FOR BID | N/A OF N/A |
| <input type="checkbox"/> FOR CONSTRUCTION | N/A OF N/A |

THIS PLAN SET HAS BEEN ISSUED SPECIFICALLY FOR THE APPROVAL OR ACTION NOTED ABOVE AND SHALL NOT BE USED FOR ANY OTHER PURPOSE. THIS SHEET SHALL BE CONSIDERED INVALID UNLESS ACCOMPANIED BY ALL SHEETS OF THE DENOTED PLAN SET(S).

COPIES OF THIS DOCUMENT WITHOUT AN ACTUAL OR FACSIMILE OF THE ENGINEER'S SIGNATURE AND AN ORIGINAL STAMP IN RED OR BLUE INK SHALL BE CONSIDERED INVALID.

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO THIS DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209 SUBSECTION 2 OF THE NEW YORK STATE EDUCATION LAW.

ROSS WINGLOVITZ, P.E.
NEW YORK LICENSE # 071701

1 inch = 20 ft.

| | |
|---|---|
| ENGINEERING & SURVEYING PROPERTIES Achieving Successful Results with Innovative Designs | MONTGOMERY OFFICE 71 CLINTON STREET MONTGOMERY, NY 12549 Ph: (845) 457-7727 WWW.EP-PC.COM |
|---|---|

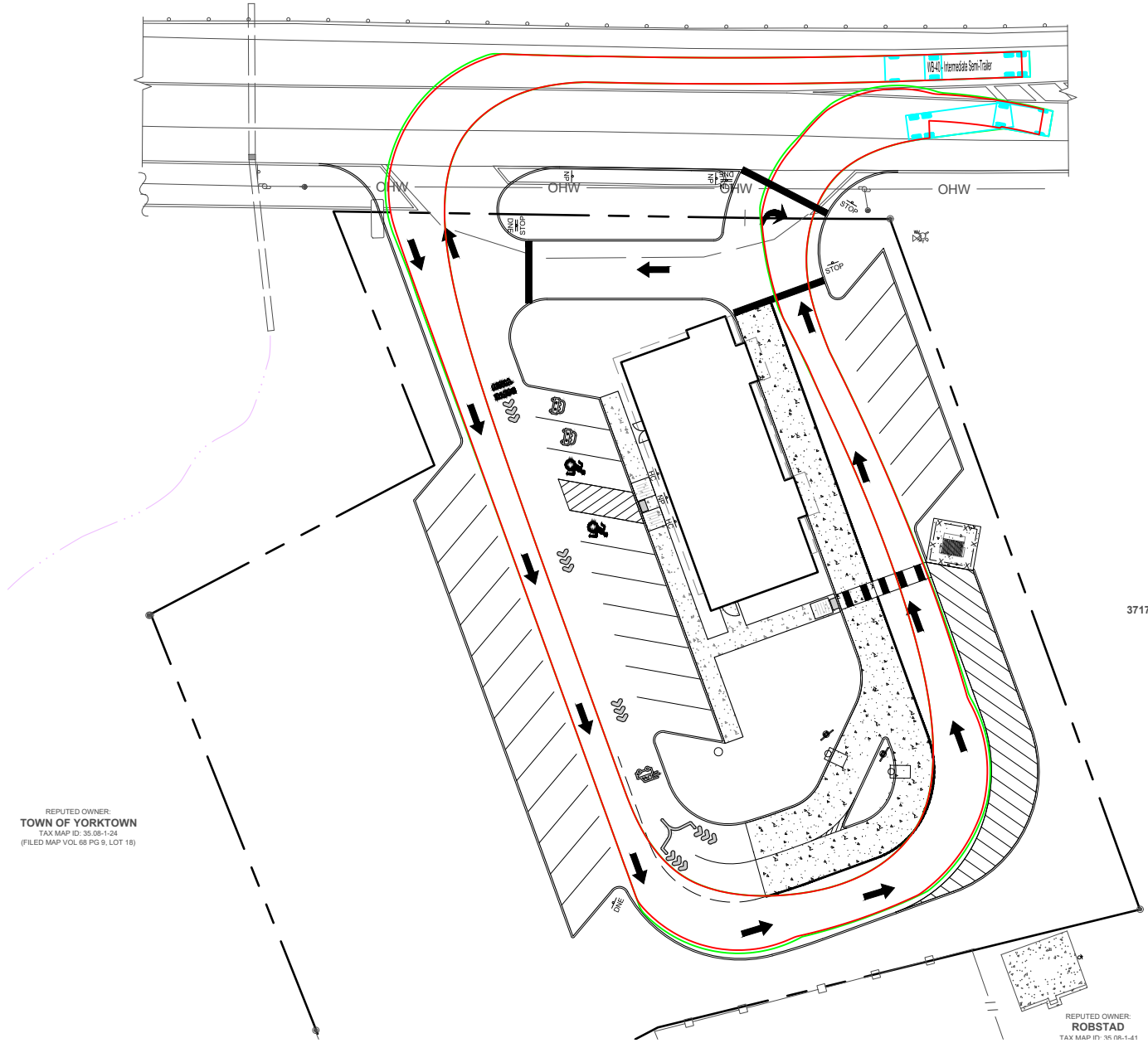
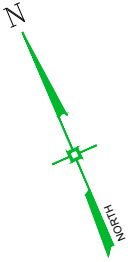
SKETCH PLAN

ROUTE 202 DUNKIN
3735 CROMPOND ROAD
TOWN OF YORKTOWN
WESTCHESTER COUNTY, NEW YORK

| | | | |
|-----------|----------|-----------|-------------------------|
| JOB #: | 1932.01 | DRAWN BY: | RMB |
| DATE: | 11/16/22 | SCALE: | 1" = 20' |
| REVISION: | 0 | TAX LOT: | 35.08-1-11, 14, 15 & 23 |

SK-3

Drawing Name: Z:\1932.01 - SDML_Yorktown Dunkin Donuts\1932.01 - Sketch Plan #3.dwg Date Printed: Nov 21, 2022, 3:56pm



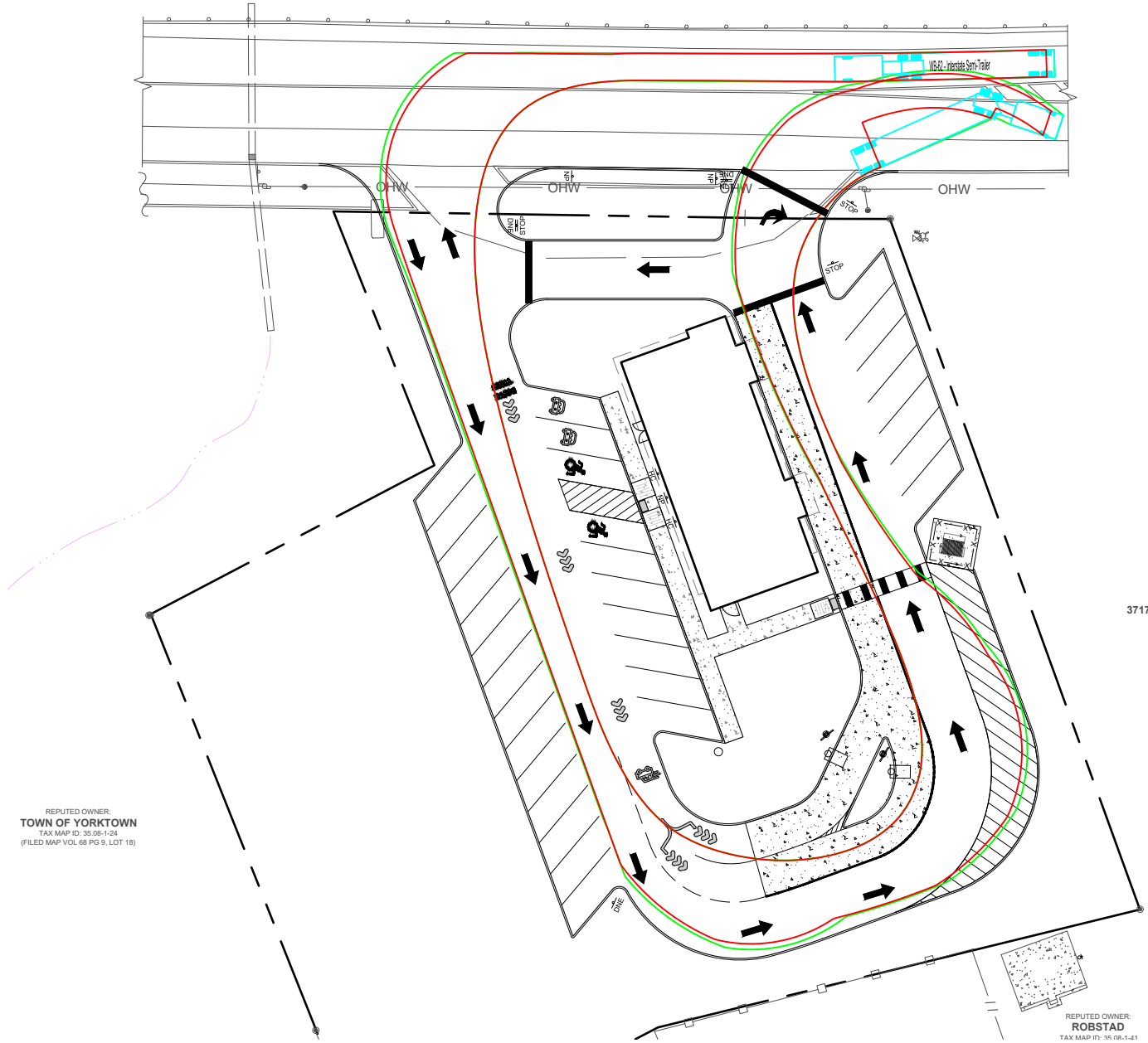
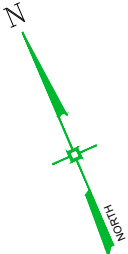
REPUTED OWNER:
TOWN OF YORKTOWN
 TAX MAP ID: 35.08-1-24
 (FILED MAP VOL 68 PG 9, LOT 18)

REPUTED OWNER:
3717 CROMPOD RD, LLC
 TAX MAP ID: 35.08-1-13
 CONTROL NO.: 512063366

REPUTED OWNER:
ROBSTAD
 TAX MAP ID: 35.08-1-41

| | | | | | |
|---------------------------------|---|--------------------|-----------------------|--|---|
| BOX TRUCK TURNING FIGURE | ROUTE 202 DUNKIN 3735 CROMPOD ROAD TOWN OF YORKTOWN WESTCHESTER COUNTY, NEW YORK | DATE: 11/18/22 | JOB # 1932.01 | | MONTGOMERY OFFICE 71 CLINTON STREET MONTGOMERY, NY 12549 Ph: (845) 457-7727 WWW.EP-PC.COM |
| | | SCALE: 1" = 50' | SHEET # F-1 | | |

Drawing Name: Z:\1932.01 - SDML_Yorktown Dunkin Donuts\1932.01 - Sketch Plan #3.dwg Date Printed: Nov 21, 2022, 3:56pm



REPUTED OWNER:
TOWN OF YORKTOWN
 TAX MAP ID: 35.08-1-24
 (FILED MAP VOL 68 PG 9, LOT 18)

REPUTED OWNER:
3717 CROMPOD RD, LLC
 TAX MAP ID: 35.08-1-13
 CONTROL NO.: 512063366

REPUTED OWNER:
ROBSTAD
 TAX MAP ID: 35.08-1-41

**TRACTOR TRAILER
 TURNING FIGURE**

**ROUTE 202 DUNKIN
 3735 CROMPOD ROAD
 TOWN OF YORKTOWN
 WESTCHESTER COUNTY, NEW YORK**

DATE: 11/18/22
 SCALE: 1" = 50'

JOB # 1932.01
 SHEET # F-2



MONTGOMERY OFFICE
 71 CLINTON STREET
 MONTGOMERY, NY 12549
 Ph: (845) 457-7727
 WWW.EP-PC.COM



1 LEFT FACADE
NTS NOTE:



2 RIGHT FACADE
NTS NOTE:



3 FRONT FACADE
NTS NOTE:



4 REAR FACADE (@ PAY AND DRIVE THRU WINDOWS)
NTS NOTE:

36 Arnes Avenue
Rutherford, NJ 07070
Tel. 201.896.0333
Fax. 201.896.9469
email@gkanda.biz

gkanda
ARCHITECTS, PC

Gary Kliesch and Associate Architects

| Rev. No. | Drawing Issues/Revisions | Date |
|----------|--------------------------|------|
| | | |
| | | |
| | | |

Professional Seal Area

N.J.: AI 13332
N.Y.: 025618
FL: AR95782
WI: 11180-5
PA: RA-015112-B SC: 8935
D.C.: ARC101888 MA: 10810
GA: RA 015863 MI: 1301064135
VA: 401016373 IL: 001.023586
NC: 11736 WV: 4569 NH: 04487

NYJCID: 21D00025000
CT: ARI 0009367
DE: SS-0007765
MD: 14129

Gary Kliesch
AIA, NCARB, NJCAD

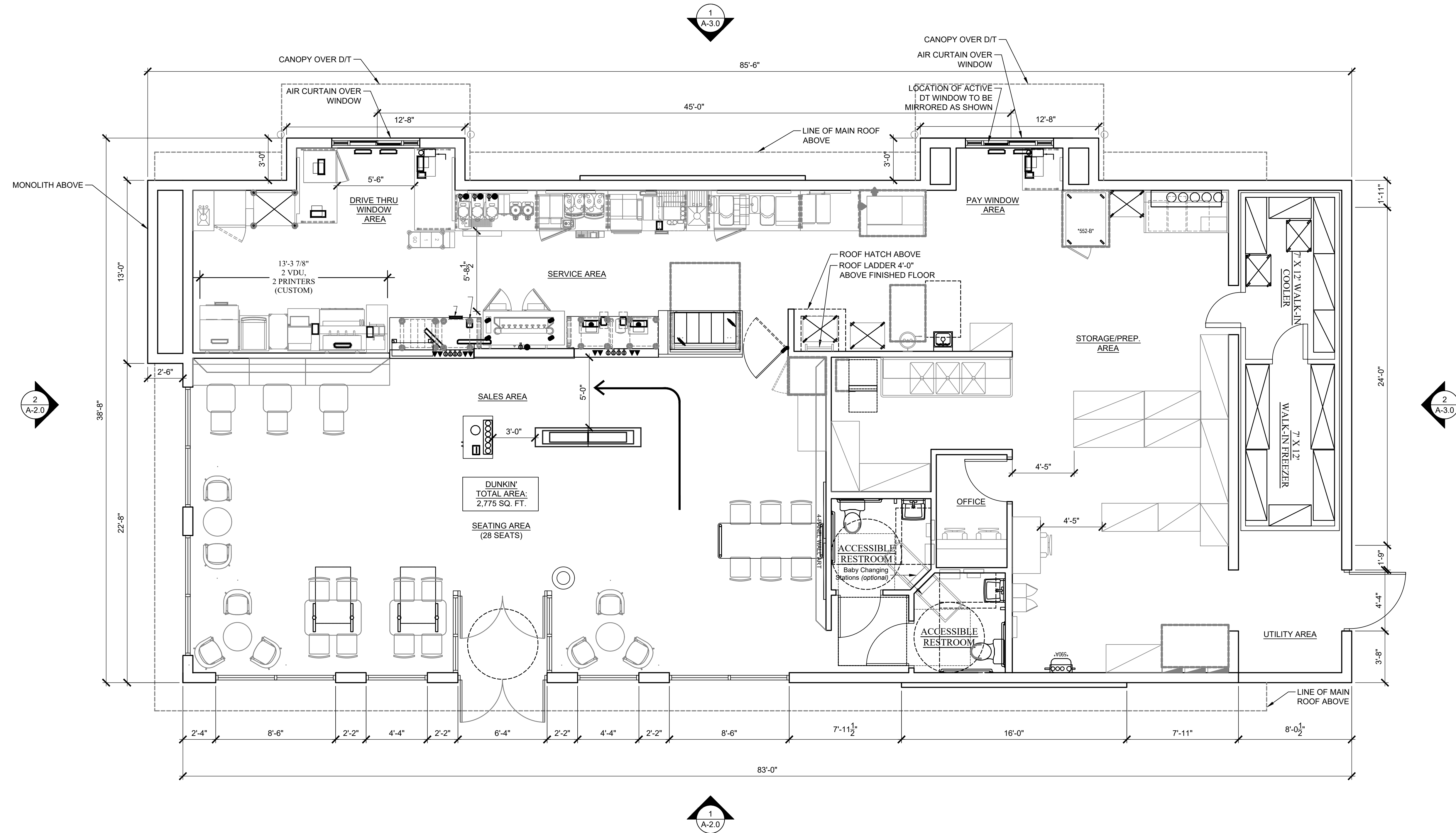
Proposed:

DUNKIN'

3735 Crompond Road,
Cortlandt Manor NY, 10567
PC #

Drawing Title:
RENDERED ELEVATIONS

| | |
|---------------------|-----------------|
| Date: 11/23/2022 | Dwg No. |
| Drawn By: AT | R 1.0 |
| Checked By: DF | |
| Job No: 22-001 | 1 of 1 |



1 PROPOSED FLOOR PLAN
1/4" = 1'-0"

36 Arnes Avenue
Rutherford, NJ 07070
Tel. 201.896.0333
Fax. 201.896.9469
email@gkanda.biz

gkanda
ARCHITECTS PC

Gary Kliesch and Associate Architects

| Rev. No. | Drawing Issues / Revisions | Date |
|----------|----------------------------|------|
| | | |

NJ: AI 13332 NJCID: 21D00025000
 NY: 025618 CT: ARI 0009367
 FL: AR95782 DE: SS-0007765
 WI: 11180-5 MD: 14129
 PA: RA-015112-B SC: 8935
 D.C.: ARC101828 MA: 10610
 GA: RA 013963 MI: 1301064135
 VA: 401016373 IL: 001.023586
 NC: 11736 WV: 4569 NH: 04487

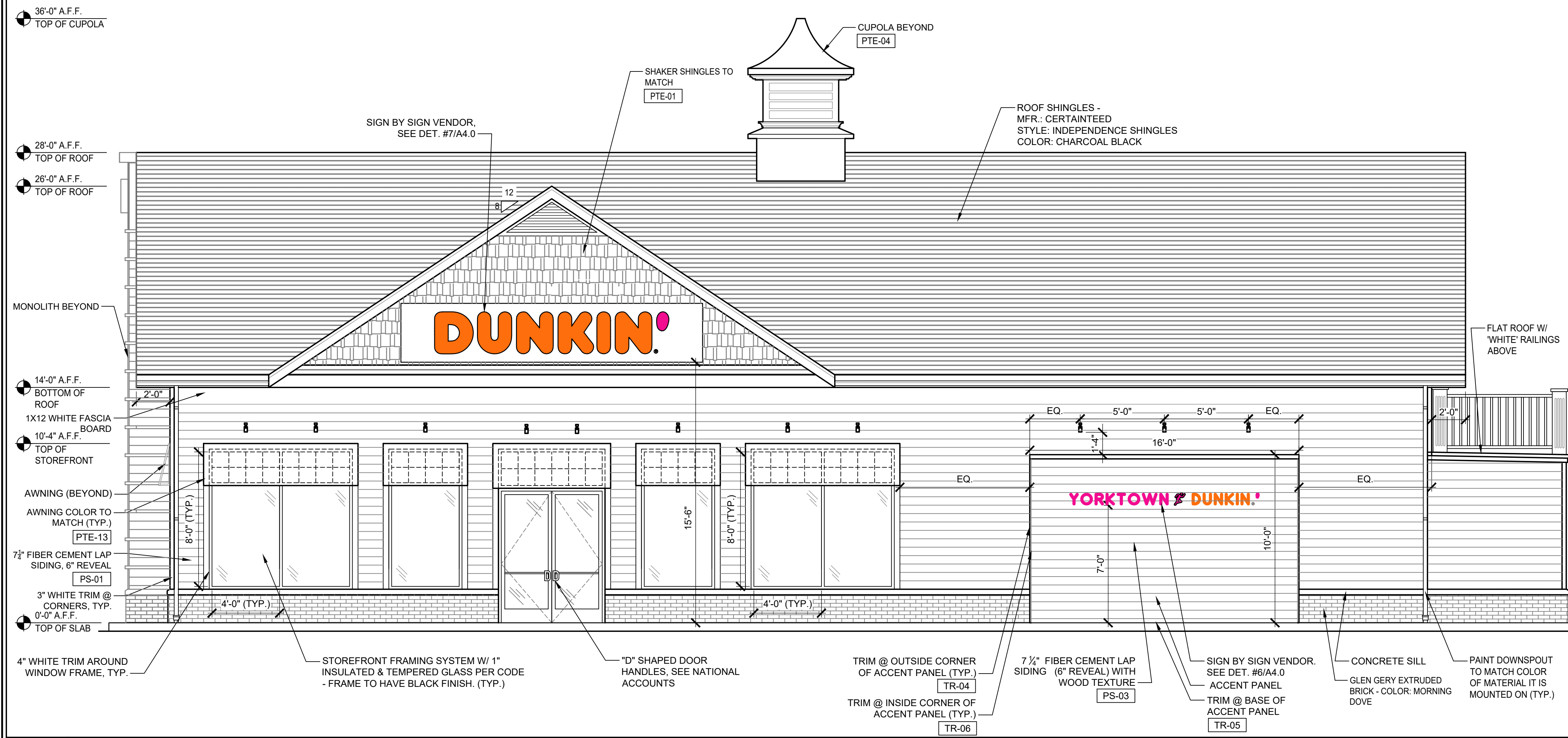
Gary Kliesch
A.I.A., N.A.A.S.P., N.C.I.D.

Proposed:

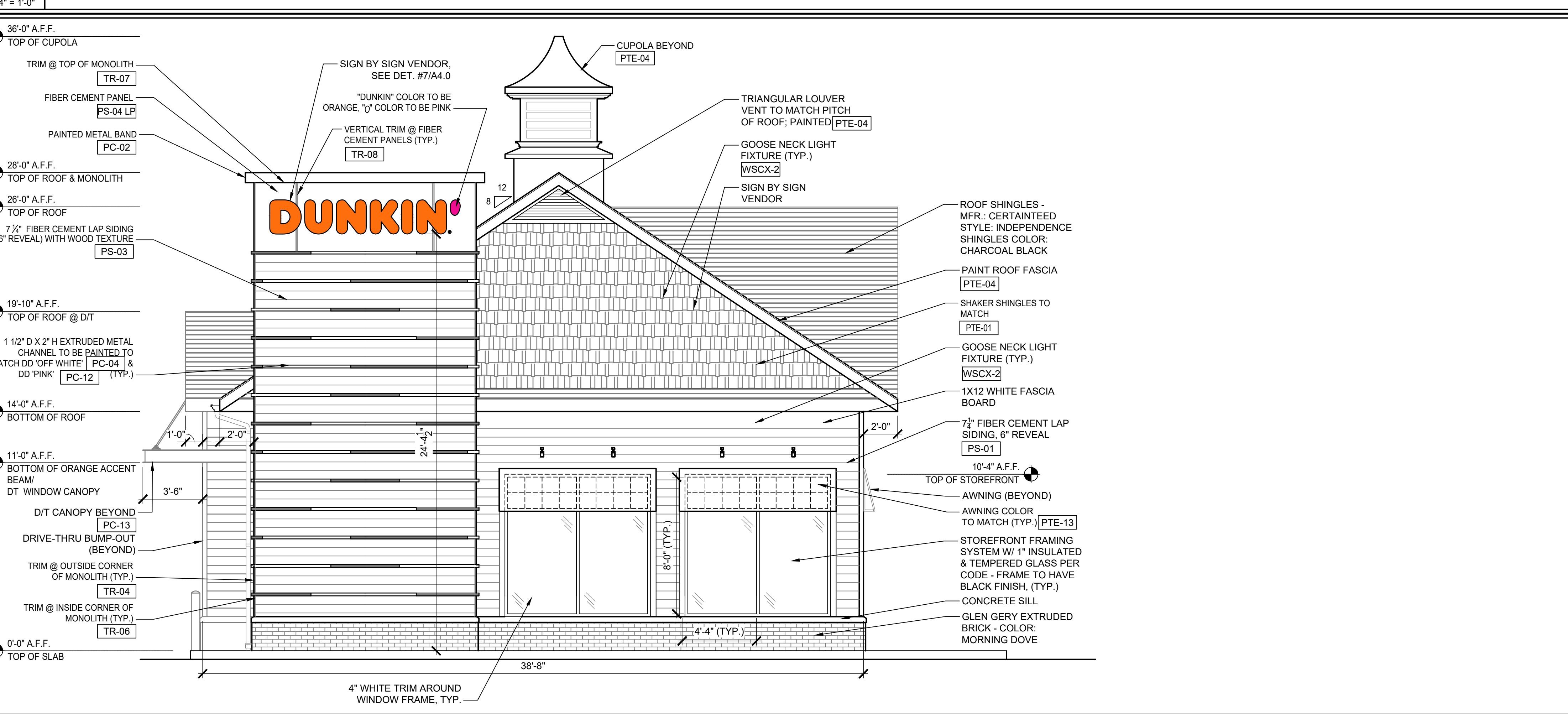
DUNKIN'

3735 Crompond Road
Cortlandt Manor, NY 10567
PC#

| | |
|---------------------------------------|-------------------|
| Drawing Title: PROPOSED FLOOR PLAN | |
| Date: 11/23/2022 | Dwg No. A.1.0 |
| Drawn By: GR | Checked By: DF |
| Job No: 22-288 | 1 of 4 |



1 FRONT FACADE



2 LEFT FACADE

| FINISH SCHEDULE | | | | |
|--|---------------------|------------------|--|---|
| EXTERIOR WALL PAINT | | | | |
| CODE | MATERIAL | MANUFACTURER | PRODUCT # | DESCRIPTION / REMARKS |
| PTE-01 | PAINT | SHERWIN WILLIAMS | GRAY FINISH | SW 7019 "GAUNTLET GRAY" |
| PTE-02 | PAINT | SHERWIN WILLIAMS | CHARCOAL FINISH | SW 7069 "IRON ORE" |
| PTE-04 | PAINT | SHERWIN WILLIAMS | OFF WHITE FINISH | SW 7063 "NEBULOUS WHITE" |
| PTE-13 | PAINT | | DD ORANGE | COLOR MATCH PMS 165C MAP ULTRA LOW V.O.C. |
| EXTERIOR FIBER-CEMENT EXTERIOR SIDING AND PANELS | | | | |
| CODE | MATERIAL | MANUFACTURER | PRODUCT # | DESCRIPTION / REMARKS |
| PS-01 | FIBER CEMENT PANEL | JAMES HARDIE | GRAY FINISH | COLOR "AGED FEATHER" SURFACE, HARDIE SIDING OR COLOR "PRIME FINISH" FIELD PAINT TO MATCH PTE-01 DIMENSION: 8 1/4" X 12" X 5/16" THK WITH 6" SIDING EXPOSURE |
| PS-03 | FIBER CEMENT SIDING | WOODTONE | WOOD FINISH RUSTIC SERIES WOODTONE | COLOR "HONEY GLAZE" WOOD PATTERN SURFACE, WOOD PATTERN PLANK DIMENSION: 8 1/4" X 12" X 5/16" THK WITH 6" SIDING EXPOSURE NOTE: NAILS TO MATCH WOOD FINISH |
| PS-04 LP | FIBER CEMENT PANEL | JAMES HARDIE | OFF WHITE FINISH LARGE FORMAT PANEL | COLOR "ARCTIC WHITE" SURFACE, PRE-FINISHED REVEAL PANEL, DIMENSION: (81" X 48") WITH COLOR MATCHED TRIMS AND COLOR MATCHED SCREWS OR COLOR "PRIME FINISH" FIELD PAINT TO MATCH PTE-04 |
| EXTERIOR METAL PAINTED COATINGS | | | | |
| CODE | MATERIAL | MANUFACTURER | PRODUCT # | DESCRIPTION / REMARKS |
| PC-13 | PAINTED COATING | MATTHEWS PAINT | DD ORANGE FINISH | COLOR MATCH PMS 165C COLOR: NP 71700 R161426 FINISH: LV6 SATIN V.I. OVER MF55898 WHITE BASECOAT Blended At Sherwin Williams Product Finishes, Lowell Ma Product: LV3 - Genesis Low VOC Satin GT1039 Orange Toner 785.9g / 19gal GT1511 Low VOC Clear Gloss 539.21g / 12gal GT1043 Autumn Orange 194.04g / .95gal GT1011 Arctic White 131.29g / 5.0gal GR1088 Reducer 442.38g / 13gal GT1510 Low VOC Flat Clear 2157.21g / 45gal COLOR MATCH PMS 165C |
| | PAINTED COATING | SHERWIN WILLIAMS | DD ORANGE FINISH COLOR # 569990 | |
| | PAINTED COATING | POWDER COAT | DD ORANGE FINISH | |

36 Ames Avenue
Rutherford, NJ 07070
Tel. 201.896.0333
Fax. 201.896.9469
email@gkanda.biz

gkanda
ARCHITECTS PC

Gary Kliesch and Associate Architects

| Rev. No. | Drawing Issues / Revisions | Date |
|----------|----------------------------|------|
| | | |
| | | |
| | | |
| | | |

NJ: AI 13332 NJCID: 21D000202600
NY: 025618 CT: ARI 0009387
FL: AR9782 DE: SS-0007765
WI: 11180-5 MD: 14129
PA: RA-015112-B SC: 8935
D.C.: ARC101838 MA: 10610
GA: RA 013963 MI: 1301064135
VA: 401016373 IL: 001.023586
NC: 11736 WV: 4569 NH: 04487

Gary Kliesch
A.I.A., N.A.A.B., N.C.I.D.

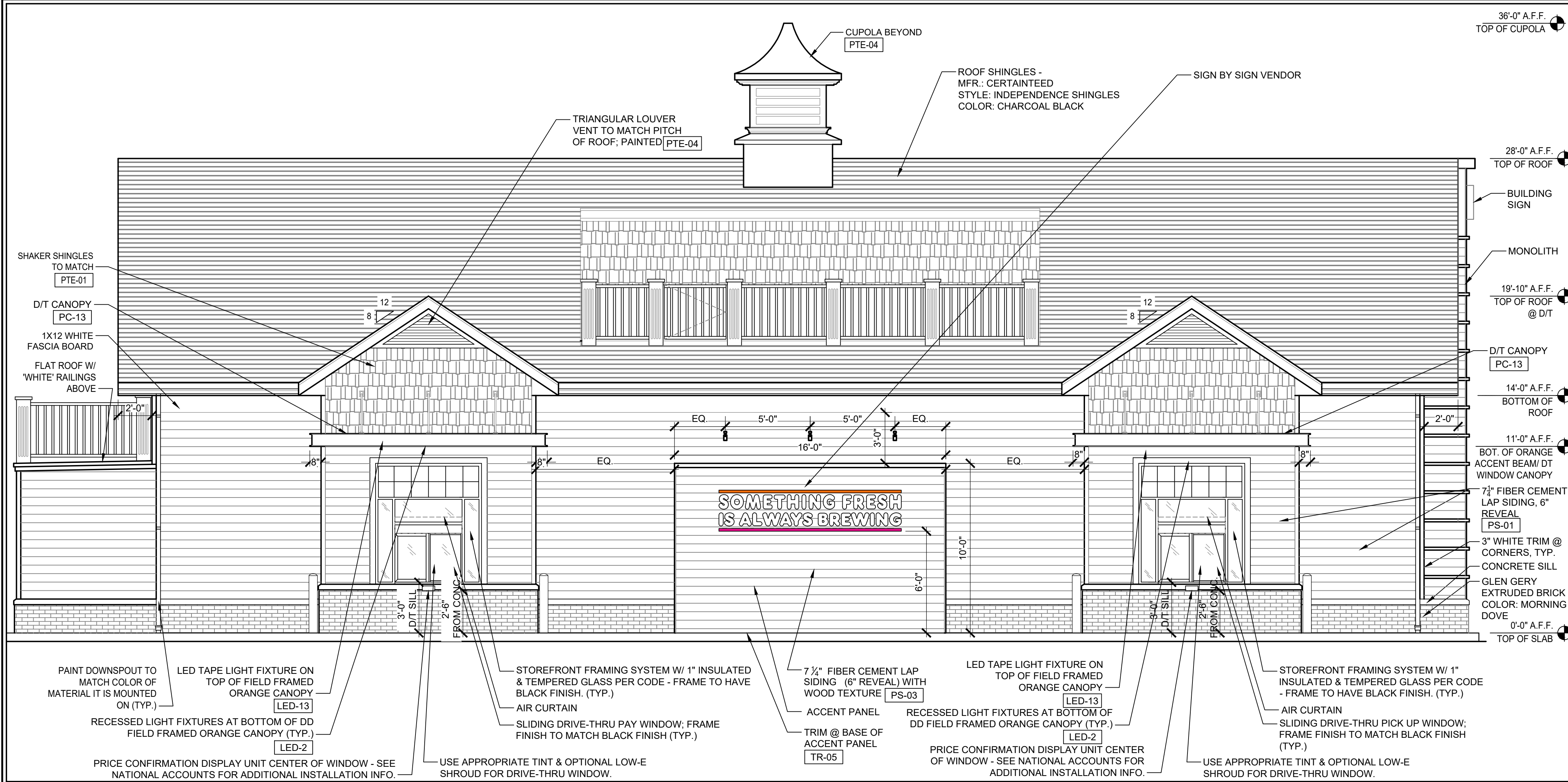
Proposed:

DUNKIN'

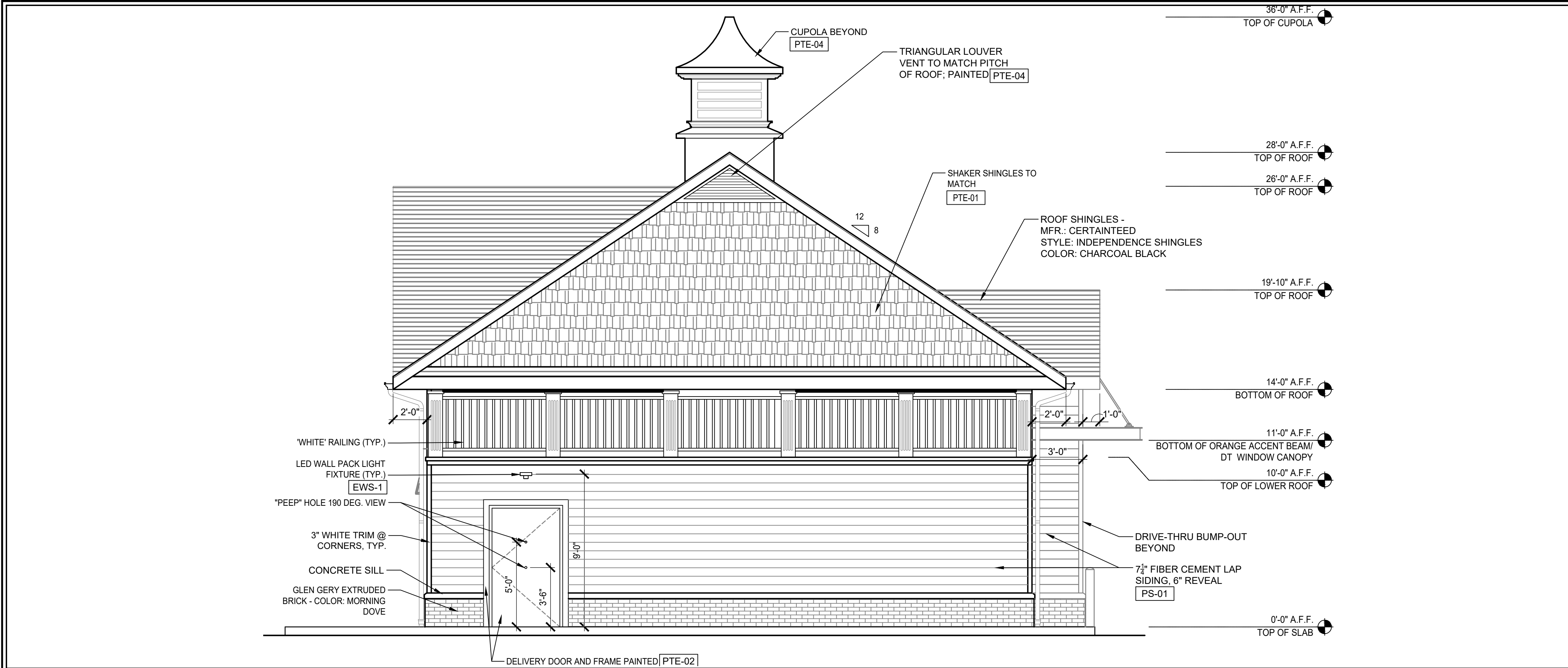
3735 Crompton Road
Corlandt Manor, NY 10567
PC #

Drawing Title:
PROPOSED ELEVATIONS

Date: 11/23/2022 Dwg No. A.2.0
Drawn By: GR
Checked By: DF
Job No: 22-288 2 of 4



1 REAR FACADE (@ PAY AND DRIVE THRU WINDOWS)
1/4" = 1'-0"



2 RIGHT FACADE
1/4" = 1'-0"

| EXTERIOR WALL PAINT | | | | |
|---------------------|----------|------------------|------------------|--|
| CODE | MATERIAL | MANUFACTURER | PRODUCT # | DESCRIPTION / REMARKS |
| PTE-01 | PAINT | SHERWIN WILLIAMS | GRAY FINISH | SW 7019 "GAUNTLET GRAY" |
| PTE-02 | PAINT | SHERWIN WILLIAMS | CHARCOAL FINISH | SW 7068 "IRON ORE" |
| PTE-04 | PAINT | SHERWIN WILLIAMS | OFF WHITE FINISH | SW 7063 "NEBULOUS WHITE" |
| PTE-13 | PAINT | DD ORANGE | | COLOR MATCH PMS 165C MPP ULTRA LOW V.O.C. |

| EXTERIOR FIBER-CEMENT EXTERIOR SIDING AND PANELS | | | | |
|--|---------------------|--------------|--|--|
| CODE | MATERIAL | MANUFACTURER | PRODUCT # | DESCRIPTION / REMARKS |
| PS-01 | FIBER CEMENT PANEL | JAMES HARDIE | GRAY FINISH | COLOR "AGED PEWTER" SURFACE HARDIE SIDING OR COLOR "PRIMED FINISH" FIELD PAINT TO MATCH PTE-01 DIMENSION: 8 1/4" X 12 X 5/16" THK WITH 6" SIDING EXPOSURE |
| PS-02 | FIBER CEMENT SIDING | WOODTONE | WOOD FINISH RUSTIC SERIES WOODTONE | COLOR "HONEY GLAZE" WOOD PATTERN SURFACE WOOD PATTERN PLANK DIMENSION: 8 1/4" X 12 X 5/16" THK WITH 6" SIDING EXPOSURE NOTE: NAILS TO MATCH WOOD FINISH |
| PS-04 LP | FIBER CEMENT PANEL | JAMES HARDIE | OFF WHITE FINISH LARGE FORMAT PANEL | COLOR "ARCTIC WHITE" SURFACE PRE-FINISHED REVEAL PANEL DIMENSION: (8'18" X 48'X96") WITH COLOR MATCHED TRIMS AND COLOR MATCHED SCREWS OR COLOR "PRIMED FINISH" FIELD PAINT TO MATCH PTE-04 |

| EXTERIOR METAL PAINTED COATINGS | | | | |
|---------------------------------|-----------------|------------------|----------------------------------|--|
| CODE | MATERIAL | MANUFACTURER | PRODUCT # | DESCRIPTION / REMARKS |
| PC-13 | PAINTED COATING | MATTHEWS PAINT | DD ORANGE FINISH | COLOR MATCH PMS 165C COLOR: MP797700 R161426 FINISH: LVS SATIN V10 OVER MP65898 WHITE BASECOAT |
| | PAINTED COATING | SHERWIN WILLIAMS | DD ORANGE FINISH COLOR # 5059990 | Blended At Sherwin Williams Product Finished, LowVOC Product: LV3 - Genesis Low VOC Satin GT1039 Orange Toner 785.07g / 19gal GT1511 Low VOC Gloss Clear 529.21g / 12gal GT1043 Autumn Orange 194.04g / .05gal GT1011 Auto White 137.20g / .02gal GT1058 Reducer 442.38g / 1.9gal GT1510 Low VOC Flat Clear 2157.21g / 49gal COLOR MATCH PMS 165C |
| | PAINTED COATING | POWDER COAT | DD ORANGE FINISH | |

36 Ames Avenue
Rutherford, NJ 07070
Tel. 201.896.0333
Fax. 201.896.9469
email@gkanda.biz



| Rev. No. | Drawing Issues / Revisions | Date |
|----------|----------------------------|------|
| | | |

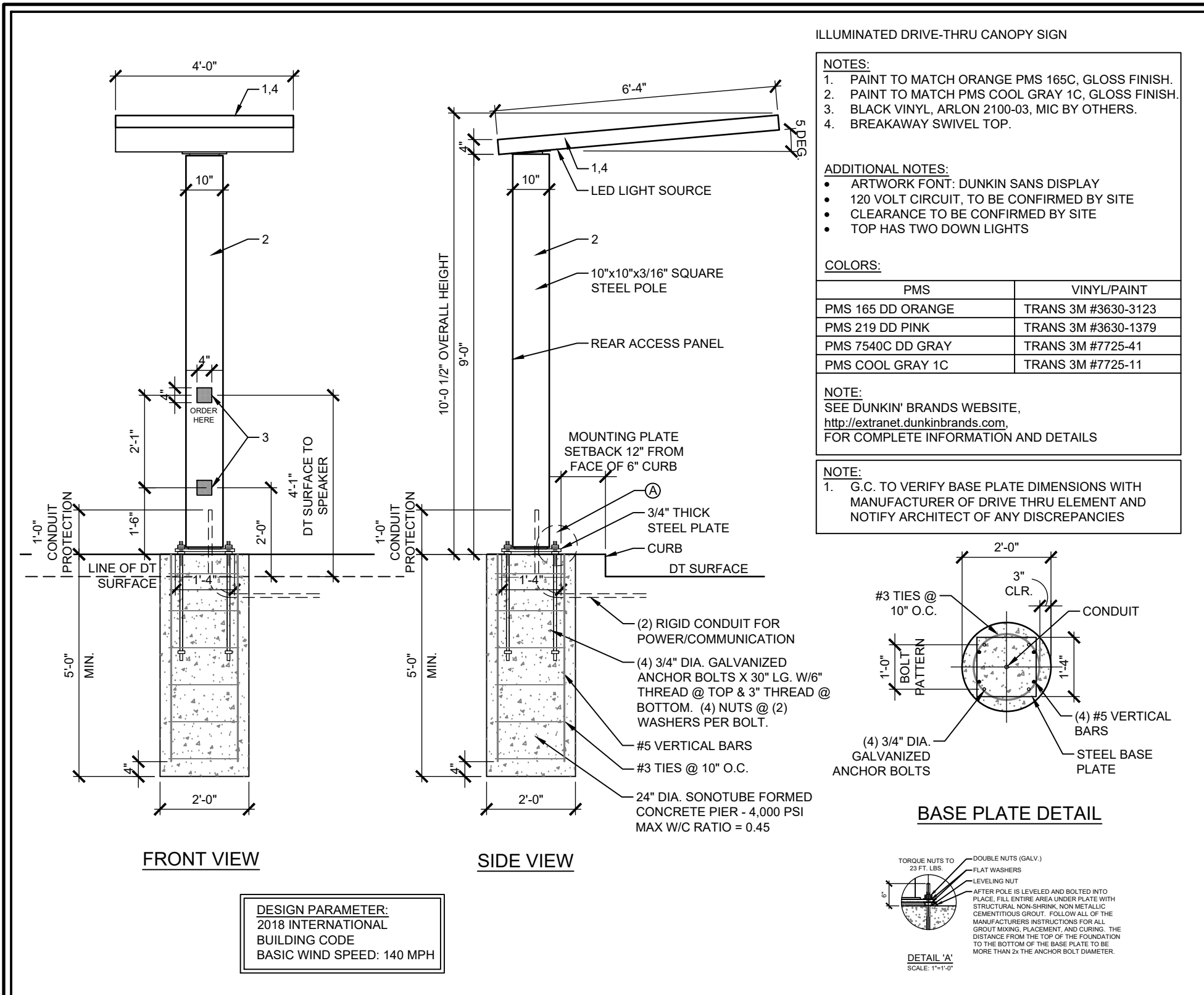
Gary Kliesch
A.I.A., N.A.A.S.P., N.C.I.D.

N.J.: AI 13332
N.Y.: 026618
FL: AR95782
WI: 11180-5
PA: RA-015112-B SC: 8935
D.C.: ARC101888 MA:10610
GA: RA 013863 MI: 1301064135
VA: 401016373 IL: 001.023586
NC: 11736 WV: 4569 NH: 04487

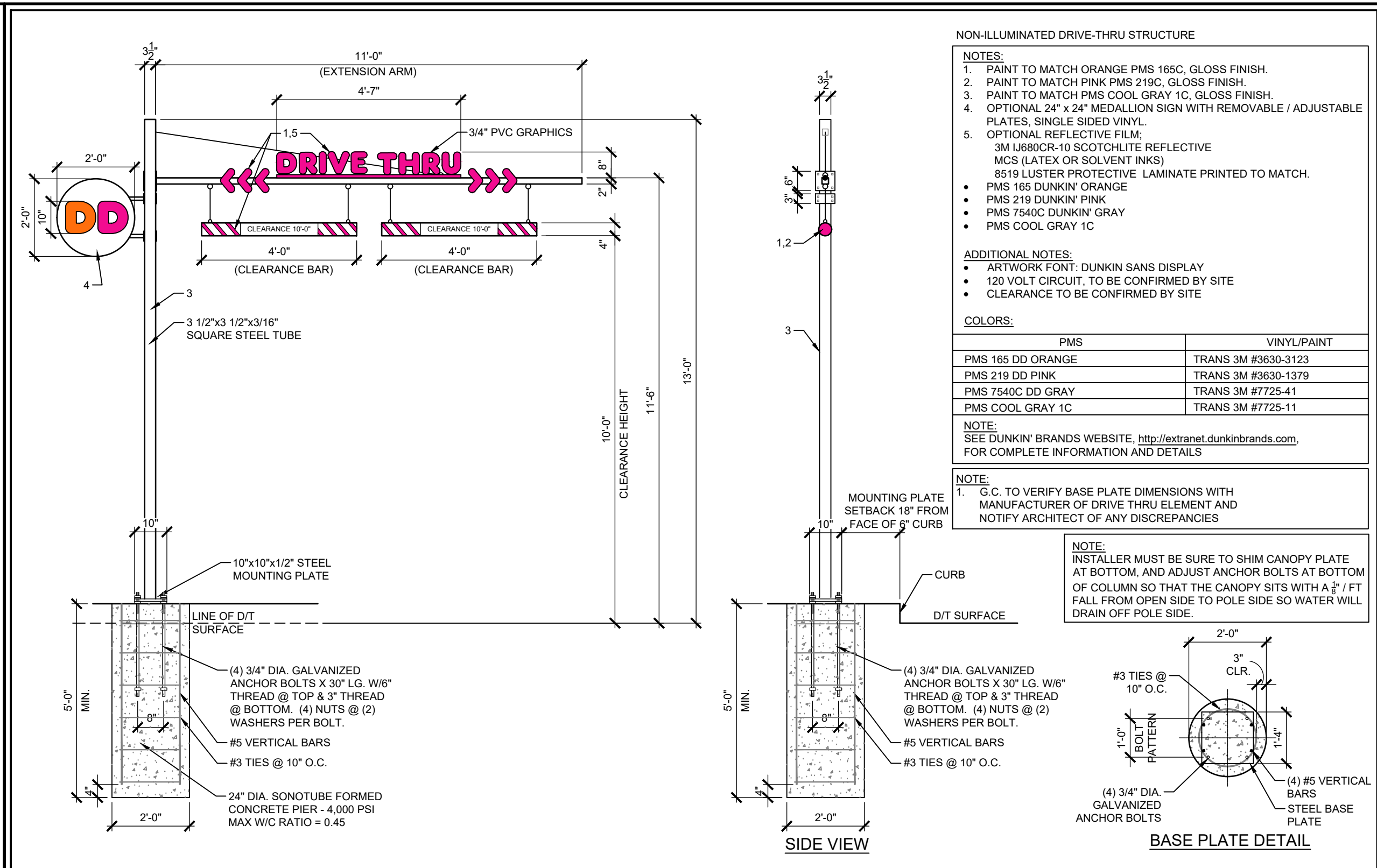
Proposed:

3735 Crompton Road
Corlandt Manor, NY 10567
PC #

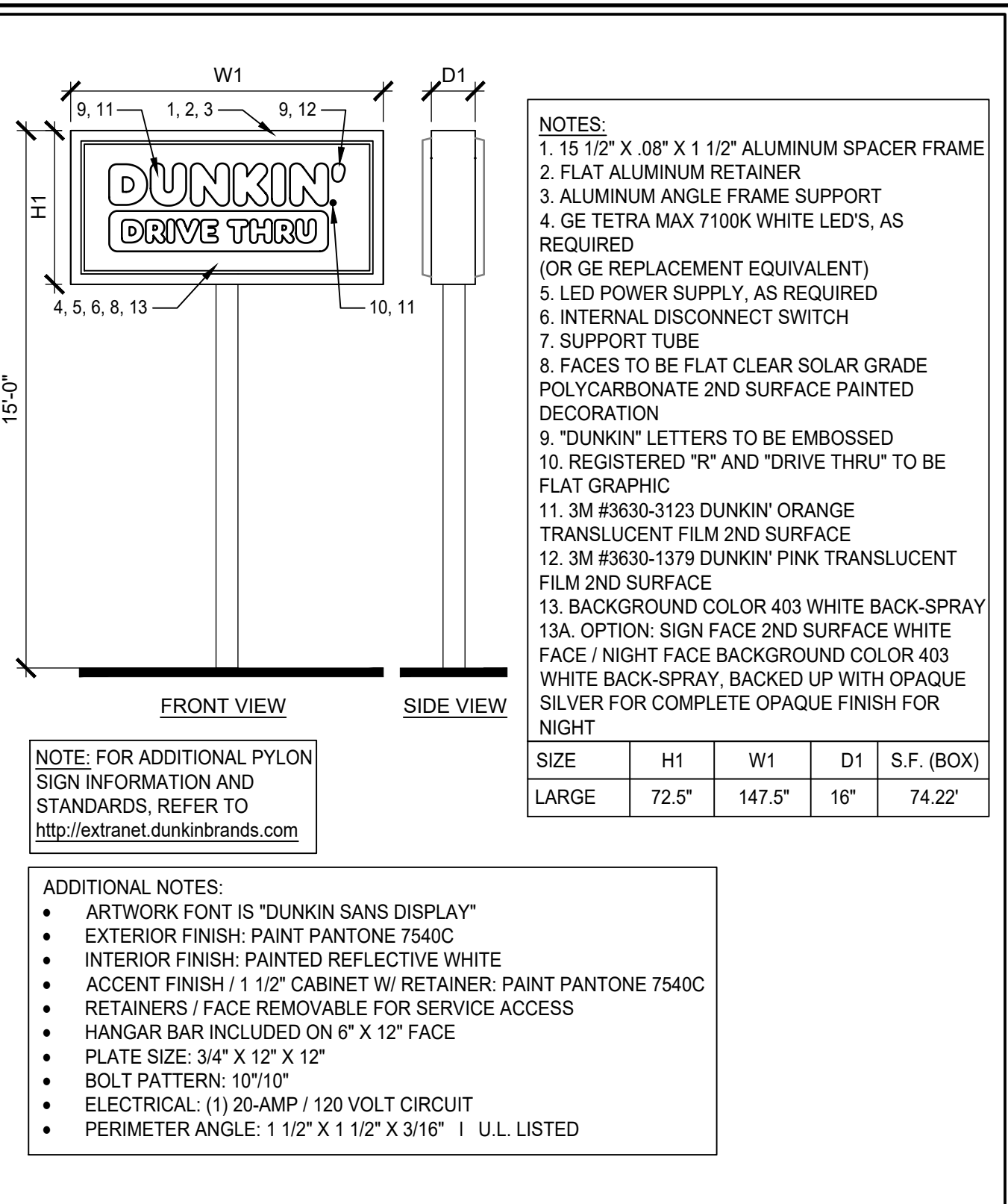
| | |
|---------------------------------------|---------------------|
| Drawing Title: PROPOSED ELEVATIONS | |
| Date: 11/23/2022 | Dwg No. A 3.0 |
| Drawn By: GR | Checked By: DF |
| Job No: 22-288 | 3 of 4 |



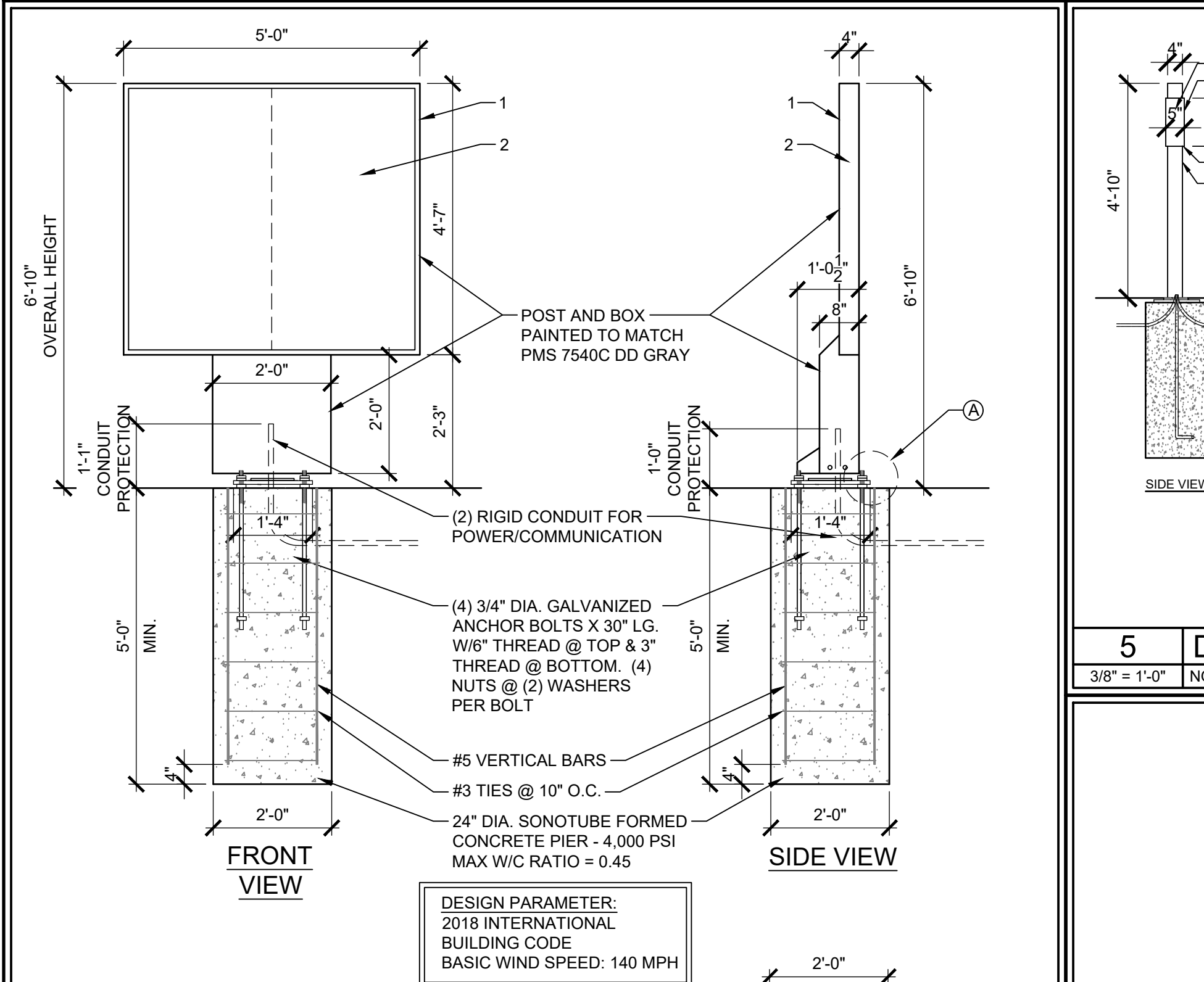
1 ORDER CANOPY
3/8" = 1'-0" NOTE:



2 SINGLE VEHICLE CLEARANCE BAR DETAIL
3/8" = 1'-0" NOTE:



3 PYLON SIGN DETAIL
1/4" = 1'-0" NOTE:



4 DIGITAL MENU BOARD
1/2" = 1'-0" NOTE:

MULTIPLE PANEL DIGITAL MENU BOARDS

NOTES:

- MENUBOARD IS POWDER COATED TO MATCH PMS 7540C (CABINET, BASE CLADDING, DOOR FRAMES & EXTENDER FRAMES).
- SAMSUNG OHF SERIES DISPLAY MENUBOARDS, OHF55F - 55".

ADDITIONAL NOTES:

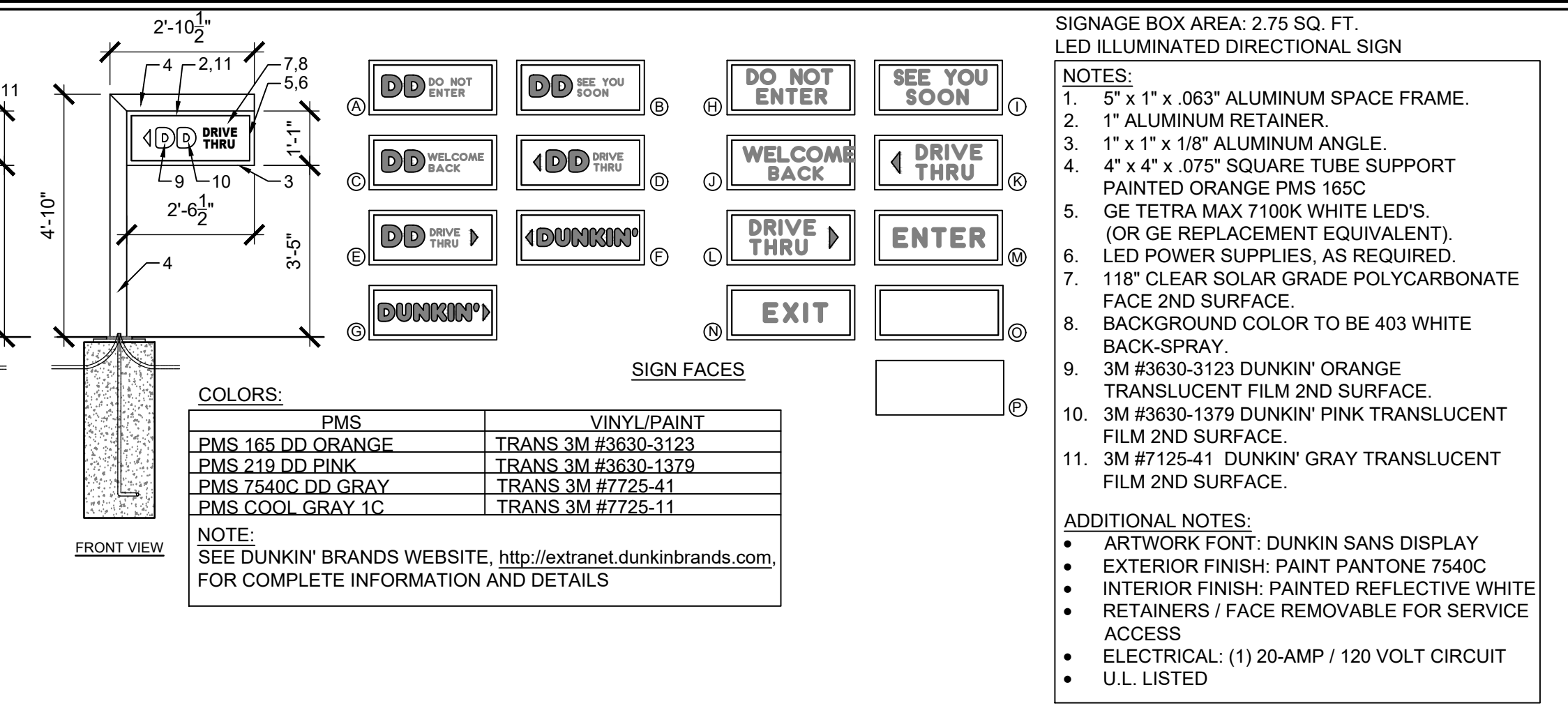
- ARTWORK FONT: DUNKIN SANS DISPLAY

COLORS:

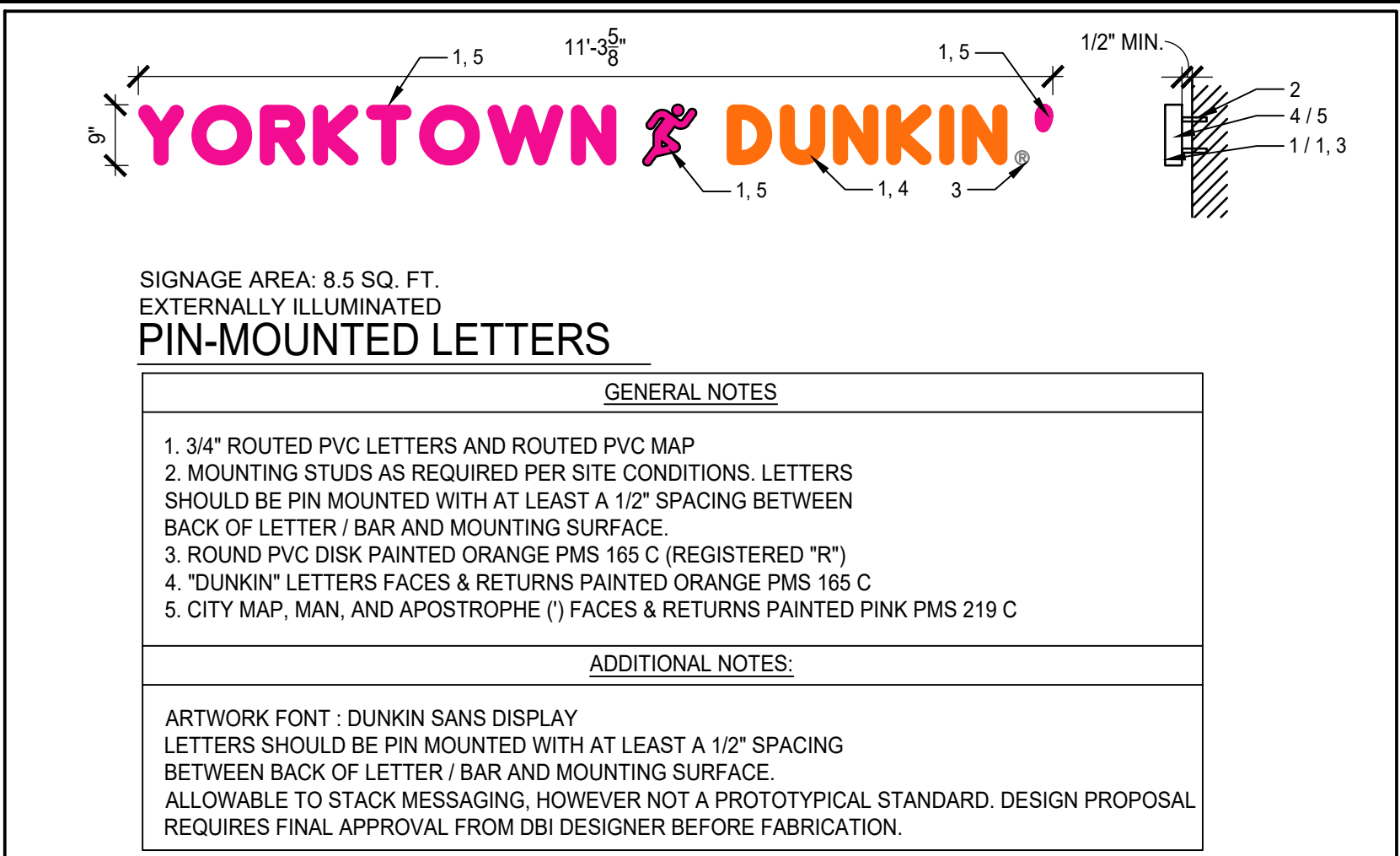
| PMS | VINYL/PAINT |
|-------------------|---------------------|
| PMS 165 DD ORANGE | TRANS 3M #3630-3123 |
| PMS 219 DD PINK | TRANS 3M #3630-1379 |
| PMS 7540C DD GRAY | TRANS 3M #7725-41 |
| PMS COOL GRAY 1C | TRANS 3M #7725-11 |

NOTE: SEE DUNKIN BRANDS WEBSITE, <http://extranet.dunkinbrands.com> FOR COMPLETE INFORMATION AND DETAILS

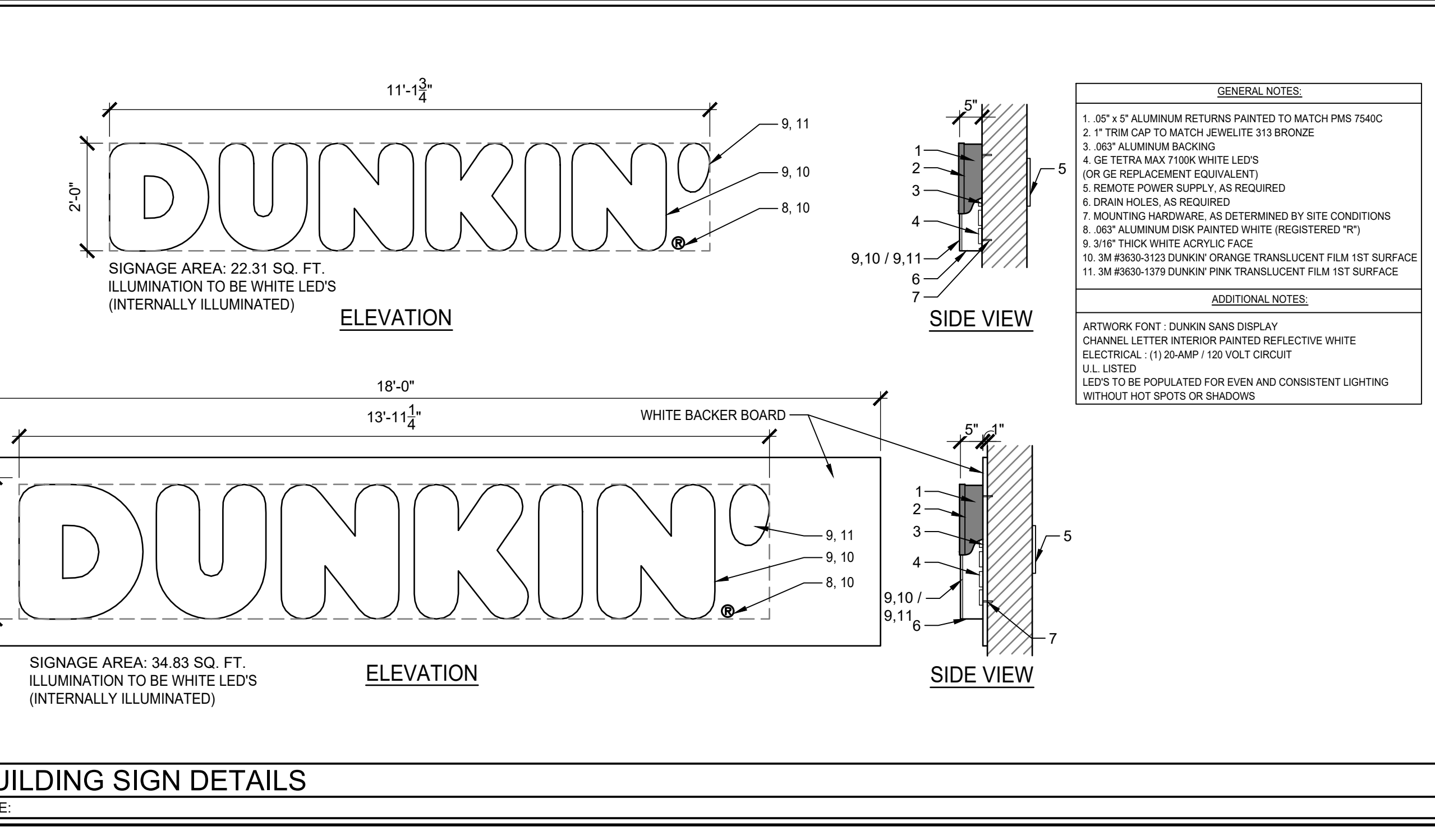
NOTE: G.C. TO VERIFY BASE PLATE DIMENSIONS WITH MANUFACTURER OF DRIVE THRU ELEMENT AND NOTIFY ARCHITECT OF ANY DISCREPANCIES



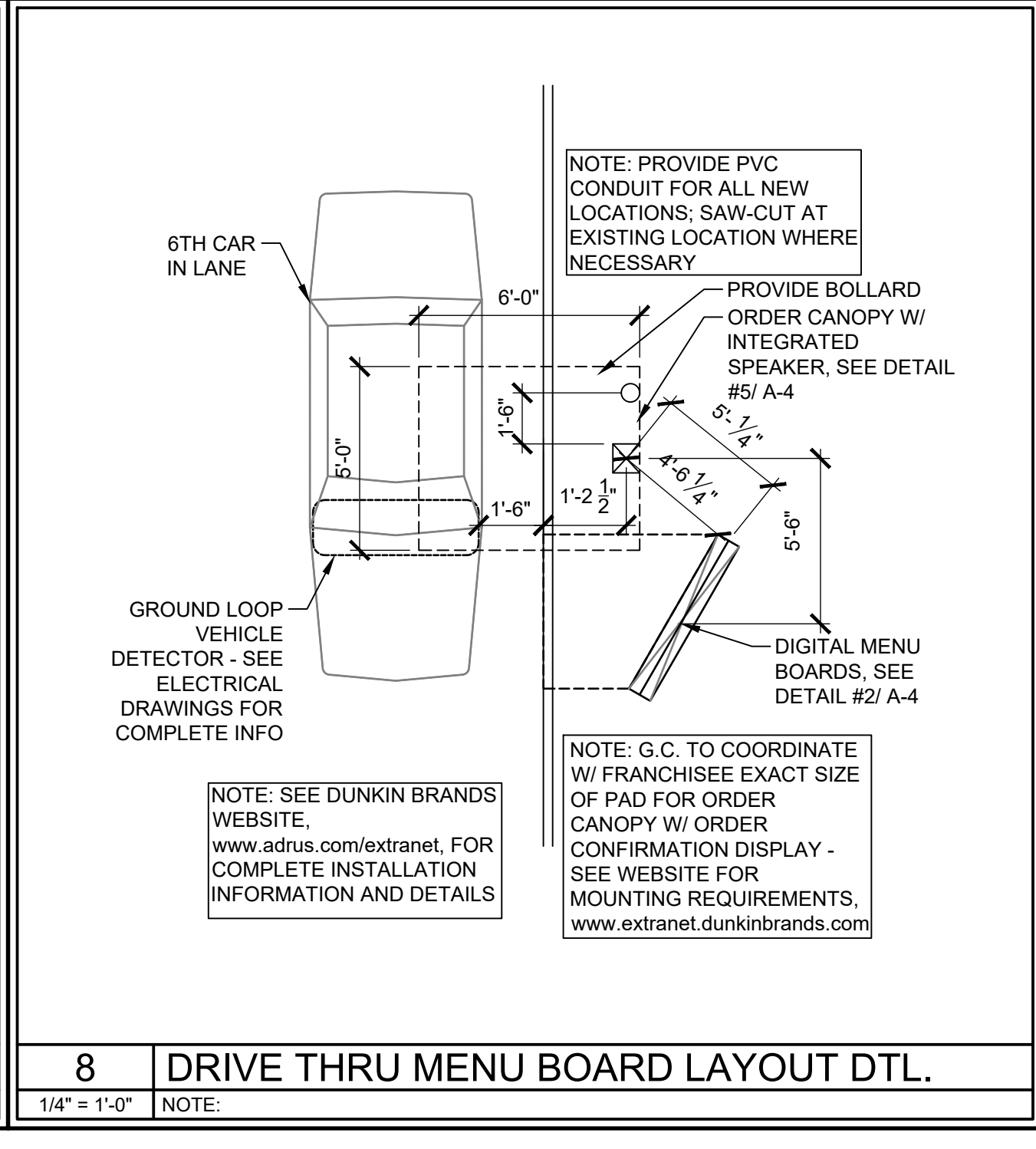
5 DIRECTIONAL SIGN DETAILS
3/8" = 1'-0" NOTE:



6 BUILDING SIGN DETAIL
1/2" = 1'-0" NOTE:



7 BUILDING SIGN DETAILS
3/8" = 1'-0" NOTE:



8 DRIVE THRU MENU BOARD LAYOUT DTL.
1/4" = 1'-0" NOTE:

| Date | Revisions |
|------|-----------|
| | |

NJ: AI 13332
NY: 028618
FL: AR95782
WI: 11180-5
PA: RA-01512-B
D.C.: ARC101828
GA: RA-013983
VA: 401016373
NC: 11736

CT: ARI 0009387
DE: SS-0007765
MD: 14129
SC: 8935
MA: 10610
MI: 1301064135
IL: 001023586
WV: 4569
NH: 00487

A.L.A., N.A.A.B., N.C.I.D.

Gary Kliesch

Proposed:

DUNKIN'

3735 Croitmond Road
Corlandt Manor, NY 10567
PC#

Drawing Title: PYLON SIGN, SIGNAGE DETAILS, AND SITE ELEMENT DETAILS

| | |
|-------------|---------|
| Date: | Dwg No. |
| 11/23/2022 | |
| Drawn By: | |
| GR | |
| Checked By: | |
| DF | |
| Job No: | |
| 22-288 | |

4 of 4

Christopher Taormina, RA
Chairman

Matthew Slater
Town Supervisor

TOWN OF YORKTOWN

ADVISORY BOARD ON ARCHITECTURE & COMMUNITY APPEARANCE (ABACA)

Albert A. Capellini Community and Cultural Center, 1974 Commerce Street, Yorktown Heights, New York 10598, Phone (914) 262-6565

RECEIVED
PLANNING DEPARTMENT

DEC 9 2022

TOWN OF YORKTOWN

To: Planning Department
From: ABACA
Date: December 9, 2022
Subject: SDML Realty, LLC – Dunkin Route 202
3735 Crompond Road; 35.08-1-11, 14, 15 & 23

| Documents Submitted and Reviewed: | Referred by: |
|---|---------------------|
| Submission letter dated 11/30/2022 with associated documents Sketch Plan dated 11/16/22 Architectural Renderings dated 11/23/2022 | Planning Department |

The Advisory Board on Architecture and Community Appearance reviewed the above referenced subject at their meeting held on Tuesday, December 5, 2022. Paul Sardinha and Mario Sardinha were present.

The ABACA has the following comments:

Architecture

- The Board likes the direction of the preliminary design for the proposed building and looks forward to reviewing the project further as it progresses.
- The Board appreciates that the rooftop units are concealed.
- The proposed material and color palette is acceptable to the Board.

Lighting

- The Board requests for the applicant to submit a photovoltaic lighting plan to verify conformance to the code.
- The Board requests for the applicant to submit cut sheets and locations of all new proposed lighting fixtures.

Landscape Plan

- The Board requests for the applicant to submit a detailed landscape plan for review.

Signage

- The Board requests for the applicant to submit a separate signage application to the Building Department for conformity to the zoning code and for referral to this Board for approval.

Christopher Taormina

Christopher Taormina, RA
Chairman

/nc; Attachments
cc: Applicant

RECEIVED
PLANNING DEPARTMENT

DEC 5 2022

TOWN OF YORKTOWN



**New York State
Parks, Recreation and
Historic Preservation**

KATHY HOCHUL
Governor

ERIK KULLESEID
Commissioner

December 05, 2022

James Martinez
Staff Engineer
Engineering & Surveying Properties, PC
71 Clinton Street
Montgomery, NY 12549

Re: SEQRA
Route 202 Dunkin Donuts Construction
3735 Crompond Rd, Cortlandt Manor, NY 10567
22PR08630

Dear James Martinez:

Thank you for requesting the comments of the Office of Parks, Recreation and Historic Preservation (OPRHP). We have reviewed the project in accordance with the New York State Historic Preservation Act of 1980 (Section 14.09 of the New York Parks, Recreation and Historic Preservation Law). These comments are those of the OPRHP and relate only to Historic/Cultural resources. They do not include potential environmental impacts to New York State Parkland that may be involved in or near your project. Such impacts must be considered as part of the environmental review of the project pursuant to the State Environmental Quality Review Act (New York Environmental Conservation Law Article 8) and its implementing regulations (6 NYCRR Part 617).

Based upon this review, it is the opinion of OPRHP that no properties, including archaeological and/or historic resources, listed in or eligible for the New York State and National Registers of Historic Places will be impacted by this project.

If further correspondence is required regarding this project, please be sure to refer to the OPRHP Project Review (PR) number noted above.

Sincerely,

R. Daniel Mackay

Deputy Commissioner for Historic Preservation
Division for Historic Preservation

rev: J. Betsworth

Lowes Pad C

Chipotle



Yorktown Town Hall
363 Underhill Avenue, P.O. Box 703
Yorktown Heights, NY 10598

(914) 962-5722
www.yorktownny.org

November 21, 2022

Joseph P. Riina, P.E.
Site Design Consultants
251-F Underhill Avenue
Yorktown Heights, NY 10598


Subject: Proposed Chipotle – Lowes Pad C
3180 Crompond Road
SBL: 26.19-1-1

Dear Mr. Riina,

At its meeting on November 14, 2022, the Planning Board reviewed the subject project and had the following comments:

1. Submit floor plans to the Planning Department to verify the required parking.
2. Subsequent submissions should include landscaping plans, lighting plans, and elevations of the building.
3. The Board felt locating the Loading Space on the main driveway into the site may cause conflicts. Investigate other locations for the loading space.
4. The approved Master Sign Plan for the Lowes Shopping Center site included 60 SF of signage for Building C. The only freestanding sign approved in the Plan is the existing directory sign. The Plan does not prohibit additional freestanding signs however it limits the total square footage to 100 SF excluding the monument directory sign. See page 3 of the attached Master Sign Plan. Therefore, there is no restrictions or regulations in place that would prohibit the Chipotle monument sign as proposed.
5. Add the proposed monument sign to the site plan. Freestanding signs must be a minimum of 5 feet from the property line.

Sincerely,


Robyn A. Steinberg, AICP, CPESC
Town Planner

Christopher Taormina, RA
Chairman

Matthew Slater
Town Supervisor

TOWN OF YORKTOWN

ADVISORY BOARD ON ARCHITECTURE & COMMUNITY APPEARANCE (*ABACA*)

Albert A. Capellini Community and Cultural Center, 1974 Commerce Street, Yorktown Heights, New York 10598, Phone (914) 962-6565

To: Planning Department
From: ABACA
Date: December 9, 2022
Subject: Lowes Pad "C" – Chipotle Restaurant
3200 Crompond Road; 26.19-1-1

RECEIVED
PLANNING DEPARTMENT
DEC 9 2022
TOWN OF YORKTOWN

| Documents Submitted and Reviewed: | Referred by: |
|---|---------------------|
| Submission letter dated 11/30/2022 with associated documents Site Plan dated 11/29/2022 Architectural Plan dated 10/24/2022 | Planning Department |

The Advisory Board on Architecture and Community Appearance reviewed the above referenced subject at their meeting held on Tuesday, December 5, 2022. Joseph Riina, P.E. of Site Design Consultants was present.

The ABACA has the following comments:

Architecture

- The Board likes the preliminary design as submitted but wants to ensure that the materials and colors are complimentary to the other pad sites.
- The Board is always concerned with the visibility of the rooftop units and suggests for the architect to screen the units that are visible from the roadway.
- The Board looks forward to reviewing the project further as it progresses with the architect.

Lighting

- The lighting plan was reviewed and is acceptable to the Board.
- The Board requests for the applicant to add any additional building lighting to this plan and to provide cut sheets of the selected fixtures.

Landscape Plan

- The Board requests for the applicant to submit a detailed landscape plan for review.

Christopher Taormina

Christopher Taormina, RA
Chairman

/nc; Attachments

cc: Applicant

Site Design Consultants

Civil Engineers • Land Planners

November 30, 2022

Ms. Robyn Steinberg, AICP
Yorktown Planning Department
1974 Commerce Street
Yorktown Heights, NY 10598

RECEIVED
PLANNING DEPARTMENT
NOV 30 2022
TOWN OF YORKTOWN

Re: Yorktown JAZ #3
Lowes – Pad C
Crompond Road

Dear Robyn:

On behalf of our Client, we are making the following submission for distribution and review at the December 12th Planning Board Meeting. The following are responses to your letter dated November 21, 2022.


1. Attached please find preliminary Architectural Drawings which include the interior building layout.
2. The landscape plan is to follow this submission and will be forwarded when complete. The lighting plan and details are included in the site plan set. The building elevations are contained in the architectural plan set.
3. We verified with Chipotle and the deliveries are by a 28' box truck. We have demonstrated that the loading area can accommodate easy delivery to the building.
4. Noted.
5. The monument sign is shown and well beyond 5 feet away from the property line.

Enclosed please find the following items:

- Three (3) full sized and Six (3) 11"x17" prints of the proposed Site Plan titled "Site Plan Prepared for Pad C" last dated 11/29/22, Sheet T-1 and Sheet C-101 to C-108 & C-501 to C-507.
- Three (3) full-sized and Six (3) 11"x17" prints of the preliminary Architectural Plans titled "Pad C at Yorktown" dated 10/24/22, Sheets A-100, ICP-4, A-301 (color), & A-301(B&W).

In addition, we are submitting a digital version of these documents. If you have any questions or need additional information, please contact me. Thank you.

Yours Truly,



Joseph C. Riina, P.E.

JCR / dmd / Enc. / sdc 19-11

cc: Yorktown Jaz #3
Michael Grace, attorney

251-F Underhill Avenue • Yorktown Heights, New York 10598

60 Walnut Grove Road • Ridgefield, Connecticut 06877

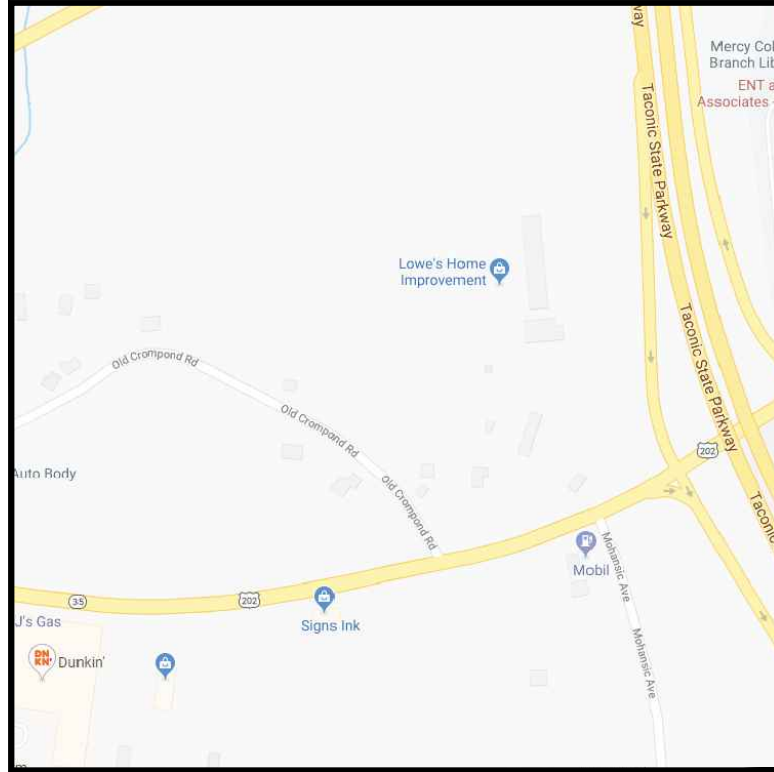
(914) 962-4488

(203) 431-9504

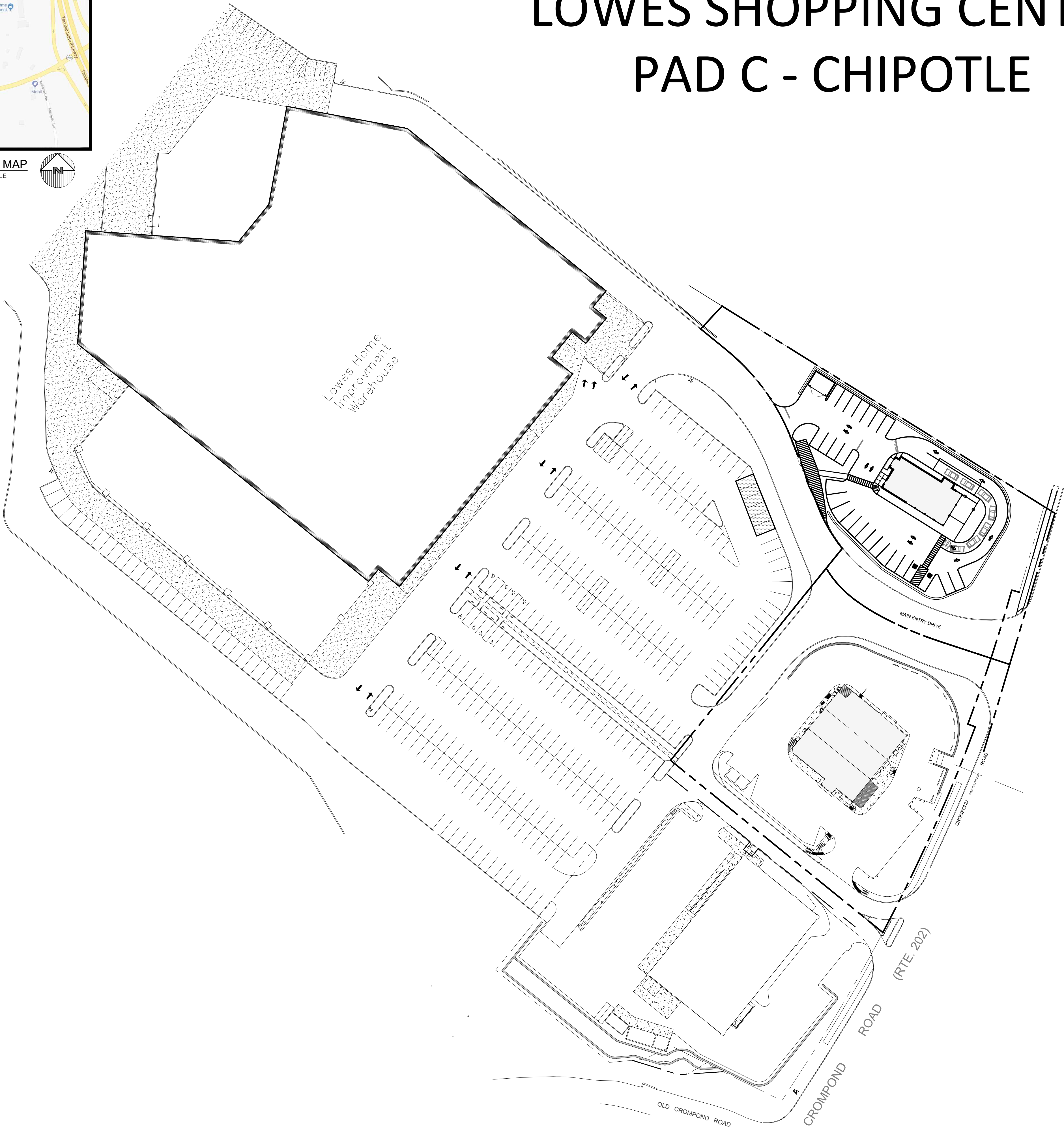
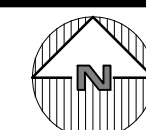
Fax (914) 962-7386



LOWES SHOPPING CENTER PAD C - CHIPOTLE



LOCATION MAP
NOT TO SCALE



SITE DATA:

OWNER / DEVELOPER: YORKTOWN JAZ #3 LLC
 500 OLD COUNTRY ROAD
 GARDEN CITY, NY 11530
 3180 CROMPOND ROAD
 YORKTOWN, NY, 10598

PROJECT LOCATION: C-3, HIGHWAY COMMERCIAL
 C-3, HIGHWAY COMMERCIAL
 SECTION 26.19, BLOCK 1, LOT 1
 0.95 ACRES (41,620 SF)

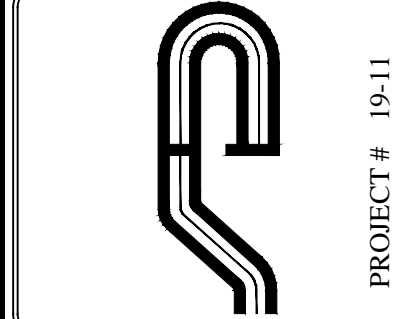
EXISTING TOWN ZONING: PUBLIC SEWERS
 PROPOSED USE: PUBLIC WATER FACILITIES
 TOWN TAX MAP DATA:
 SITE AREA :
 SEWAGE FACILITIES:
 WATER FACILITIES:

ZONING SCHEDULE:

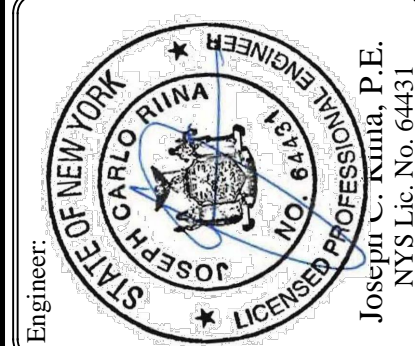
| DIMENSIONAL REGULATIONS: | C-3, HIGHWAY COMMERCIAL | | |
|----------------------------------|------------------------------|------------------|-------------------|
| | REQUIRED | PROPOSED | VARIANCE REQUIRED |
| MINIMUM SIZE OF LOT: | | | |
| MINIMUM LOT AREA: | 10,000 | 41,620 SF. | NONE |
| MINIMUM LOT WIDTH: | 100 | 130 FT. | NONE |
| MINIMUM LOT DEPTH: | NONE | 390 FT. | NONE |
| MINIMUM YARD DIMENSIONS: | | | |
| PRINCIPAL BUILDING: | | | |
| FRONT YARD SETBACK: | | | |
| WITHOUT PARKING: | 30 FT. | --- | --- |
| WITH PARKING: | 75 FT. | 86.6 FT. | NONE |
| REAR YARD SETBACK: | 30 FT. | 214.8 FT. | NONE |
| ONE SIDE YARD SETBACK: | 25 FT. | 25 FT. | NONE |
| MAXIMUM % OF LOT TO BE OCCUPIED: | | | |
| PRINCIPAL BUILDING COVERAGE: | 30% OF LOT AREA 18,348 SF | 5.7% 2,383 SF | NONE |
| MAXIMUM HEIGHT: | | | |
| PRINCIPAL BUILDING - FEET: | 35 FEET | 35 FT MAX | NONE |
| PRINCIPAL BUILDING - STORIES: | 3 | 3 MAX | NONE |

PARKING SCHEDULE

| | |
|--|---|
| REQUIRED PARKING: (SEE NOTES BELOW) | RESTAURANT: ONE SPACE PER 50 SF OF PATRON SPACE + ONE SPACE PER 100 SF OF FOOD PREP AND ANCILLARY USE PROPOSED RESTAURANT 1 PER 50 SF OF PATRON SPACE @ 800 SF = 16 SPACES (2,383 SF) 1 PER 100 SF OF ANCILLARY USE @ 1,583 SF = 16 SPACES TOTAL REQUIRED PARKING 32 SPACES |
| PROVIDED PARKING: | 24 STANDARD 2 HANDICAP |
| TOTAL PROVIDED PARKING: | 26 SPACES |
| SHARED PARKING SPACES REQ'D: | 6 SPACES |



Site Design Consultants
 Civil Engineers • Land Planners
 251-F Underhill Avenue, Yorktown Heights, NY 10598
 (914) 962-4488 - Fax: (914) 962-7386
 www.sitedesignconsultants.com

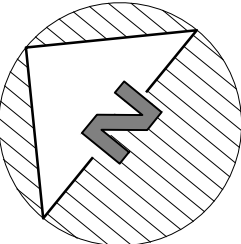
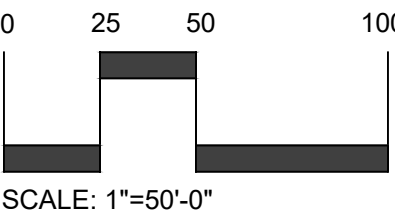


| | | | |
|------------|-----|----------|-------------|
| Revisions: | No. | Date | Comments |
| | 1. | 11/29/22 | Plan Update |

SCALE: 1" = 50'
 DRAWN BY: TK
 DATE: 10/21/22

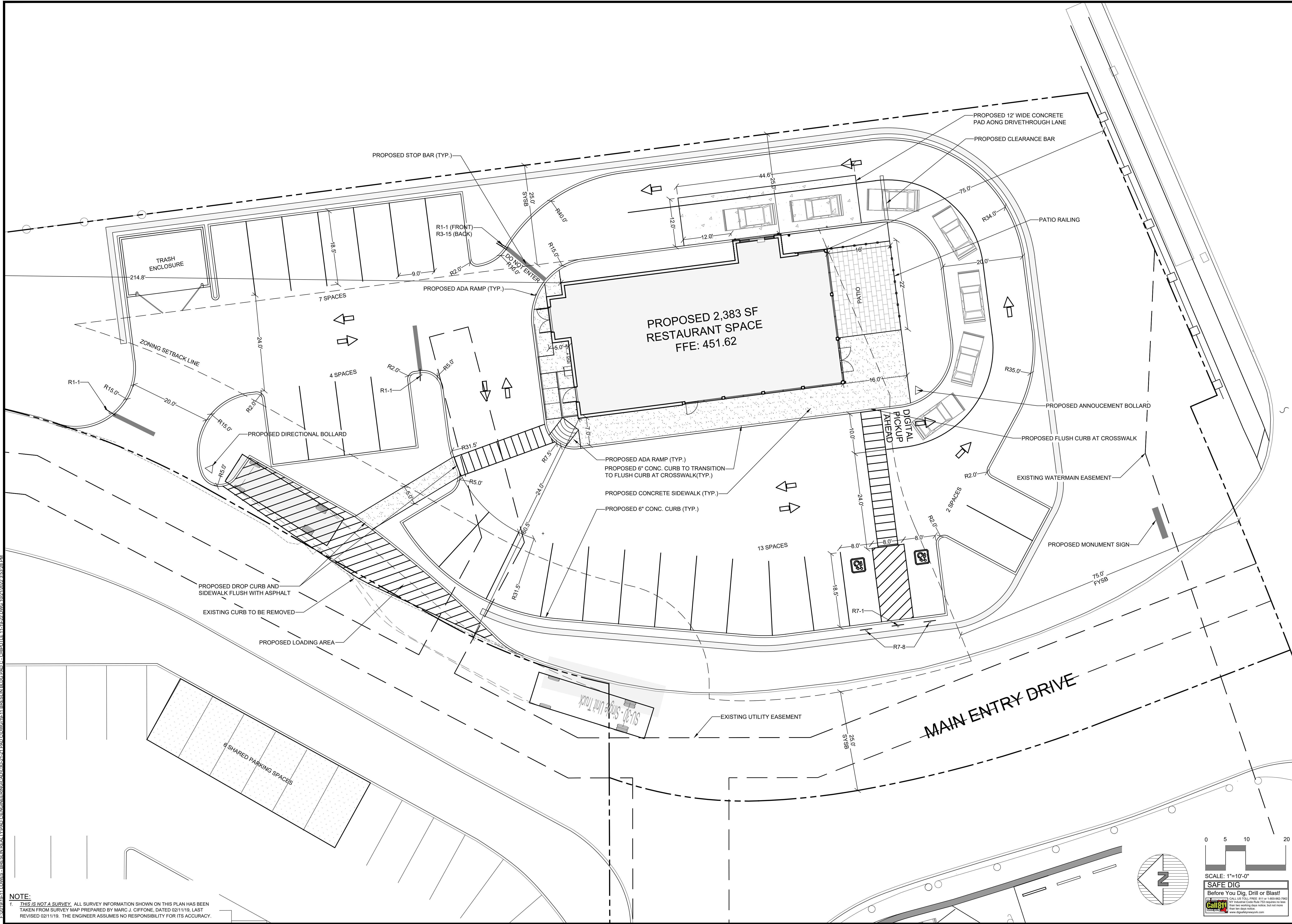
TITLE SHEET

SITE PLAN
 PREPARED FOR
PAD C
 CROMPOND ROAD
 Westchester County, New York
 Town of Yorktown



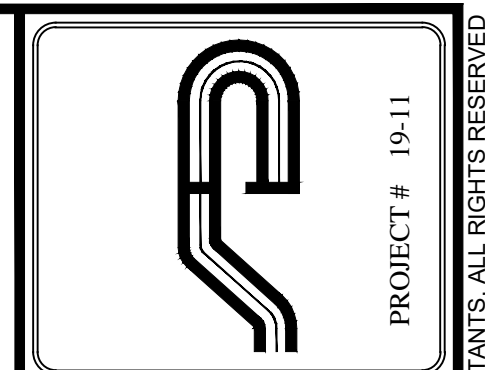
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Sheet **T-1**

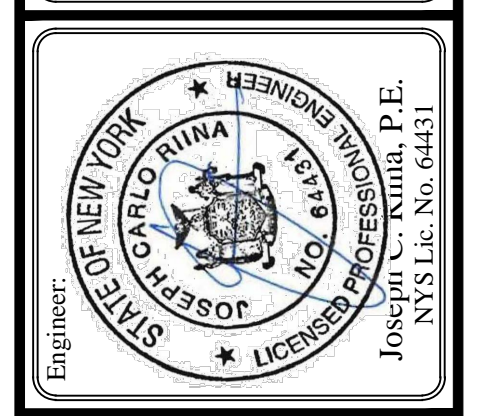


NOTE:
 1. THIS IS NOT A SURVEY. ALL SURVEY INFORMATION SHOWN ON THIS PLAN HAS BEEN TAKEN FROM SURVEY MAP PREPARED BY MARC J. CIFFONE, DATED 02/11/19. LAST REVISED 02/11/19. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

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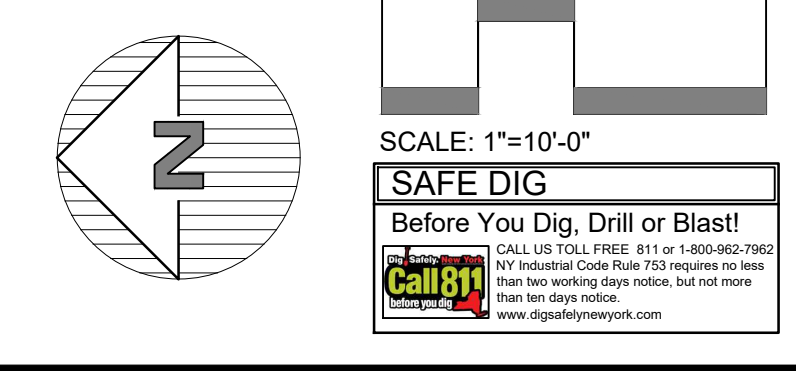
| Revisions: | No. | Date | Comments |
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| | 1 | 11/29/22 | Plan Update |

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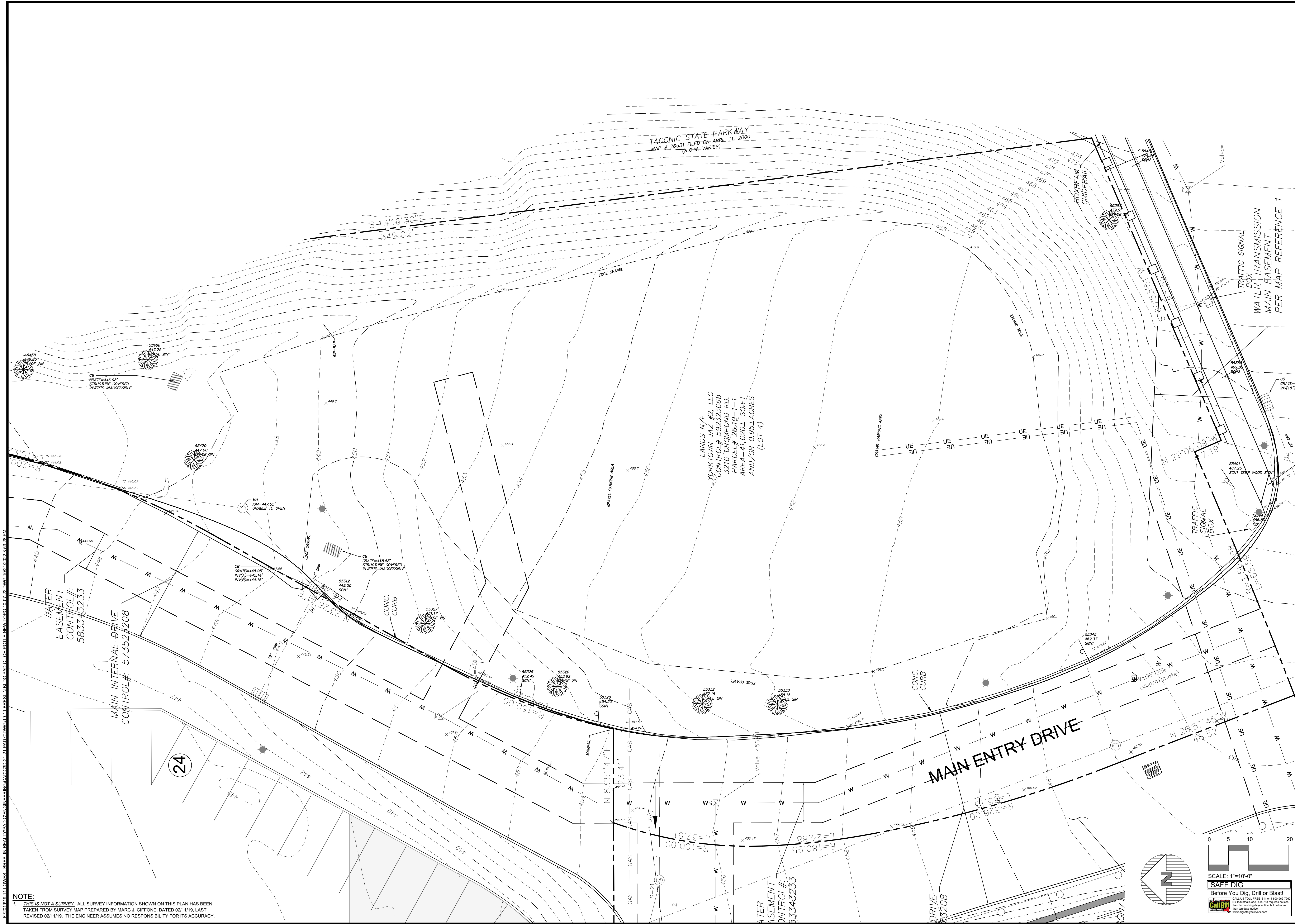
SITE PLAN

SITE PLAN PREPARED FOR
PAD C
 CROMPOND ROAD
 Town of Yorktown Westchester County, New York

Sheet **C-101**



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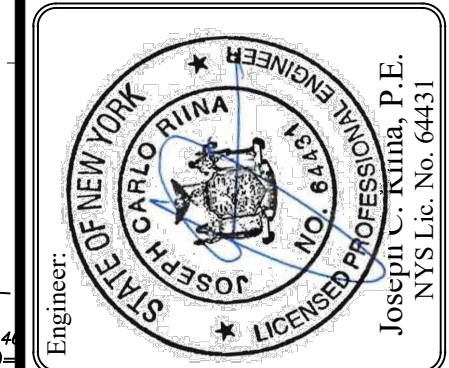


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SCALE: 1"=10'-0"

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SCALE: 1" = 10'

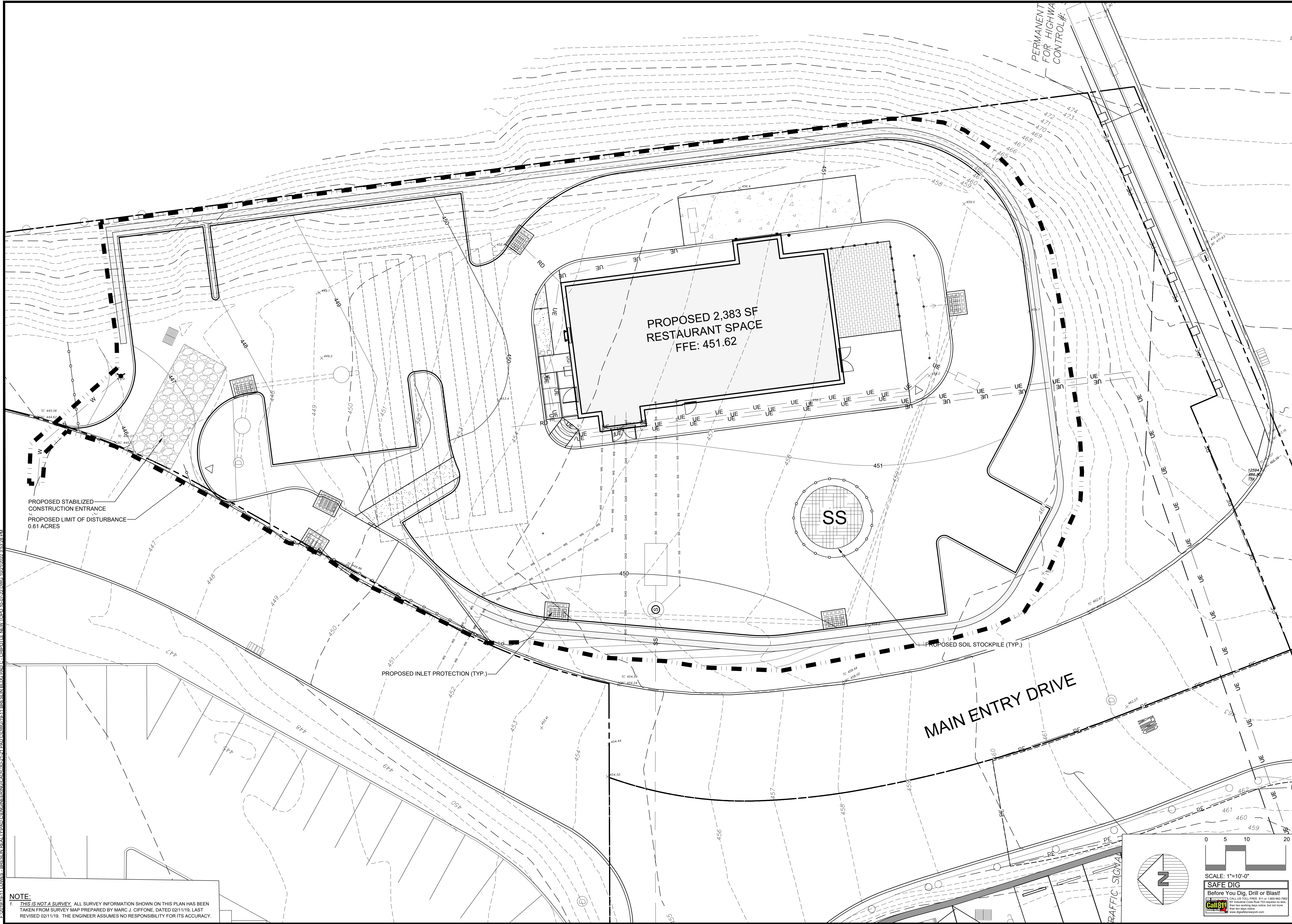
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DATE: 10/21/22

EXISTING CONDITIONS

SITE PLAN PREPARED FOR
PAD C
 CROMPOND ROAD
 Town of Yorktown
 Westchester County, New York

Sheet **C-102**



PROPOSED STABILIZED
CONSTRUCTION ENTRANCE
PROPOSED LIMIT OF DISTURBANCE
0.61 ACRES

PROPOSED 2,383 SF
RESTAURANT SPACE
FFE: 451.62

SS

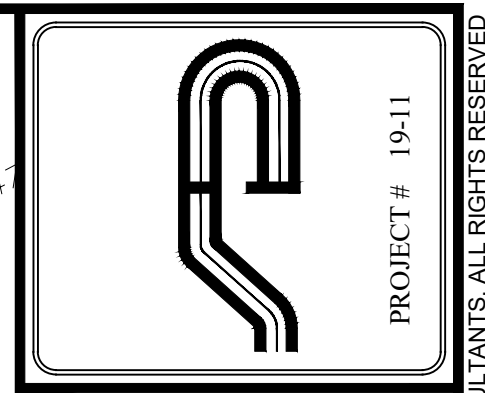
MAIN ENTRY DRIVE

PROPOSED SOIL STOCKPILE (TYP.)

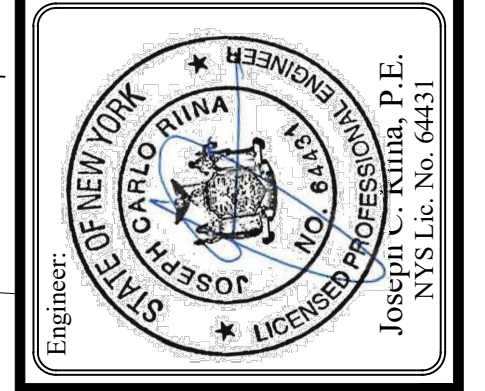
PROPOSED INLET PROTECTION (TYP.)

NOTE:
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DATE: 10/21/22

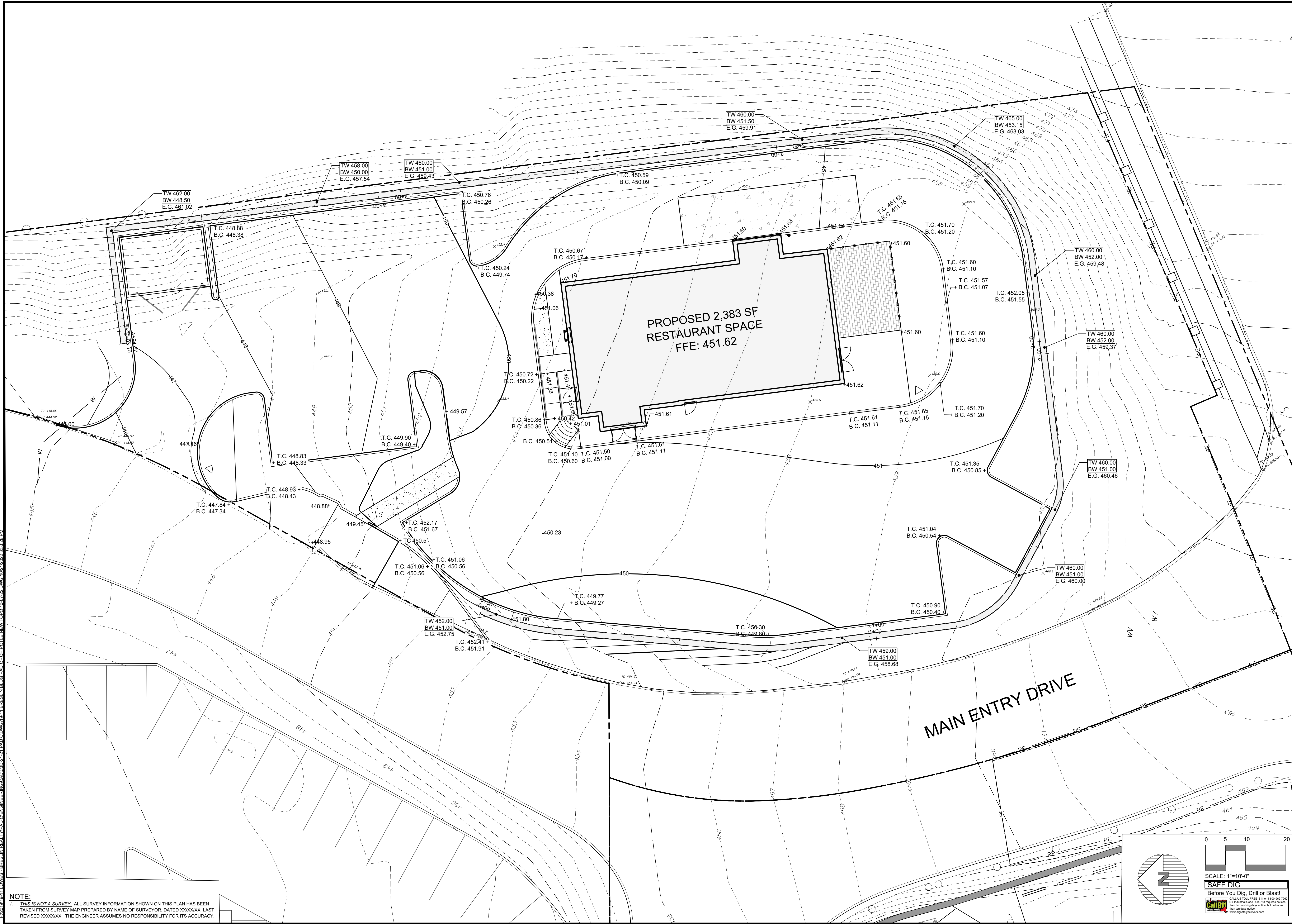
E&S PLAN

SITE PLAN
PREPARED FOR
PAD C
CROMPOD ROAD
Westchester County, New York
Town of Yorktown

Sheet **C-103**

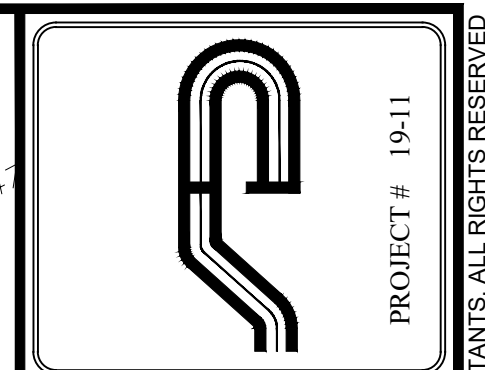
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SCALE: 1"=10'-0"

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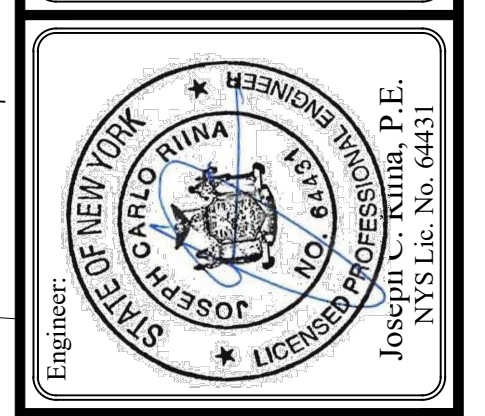


NOTE:
 1. THIS IS NOT A SURVEY. ALL SURVEY INFORMATION SHOWN ON THIS PLAN HAS BEEN TAKEN FROM SURVEY MAP PREPARED BY NAME OF SURVEYOR, DATED XXX/XXX, LAST REVISED XXXXXX. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

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|------------|-----|----------|-----------------|
| | 1 | 10/07/22 | Update of elevs |

SCALE: 1" = 10'
 DRAWN BY: TK
 DATE: 10/21/22

GRADING PLAN

SITE PLAN PREPARED FOR
PAD C
 CROMPOND ROAD
 Town of Yorktown
 Westchester County, New York

Sheet **C-105**

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 SCALE: 1"=10'-0"
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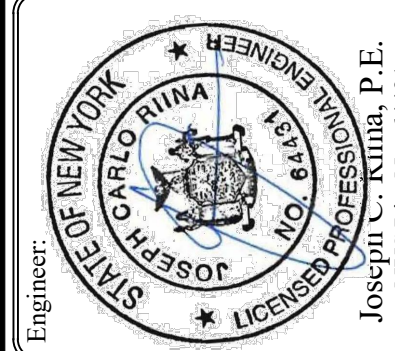
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PROJECT # 19-11

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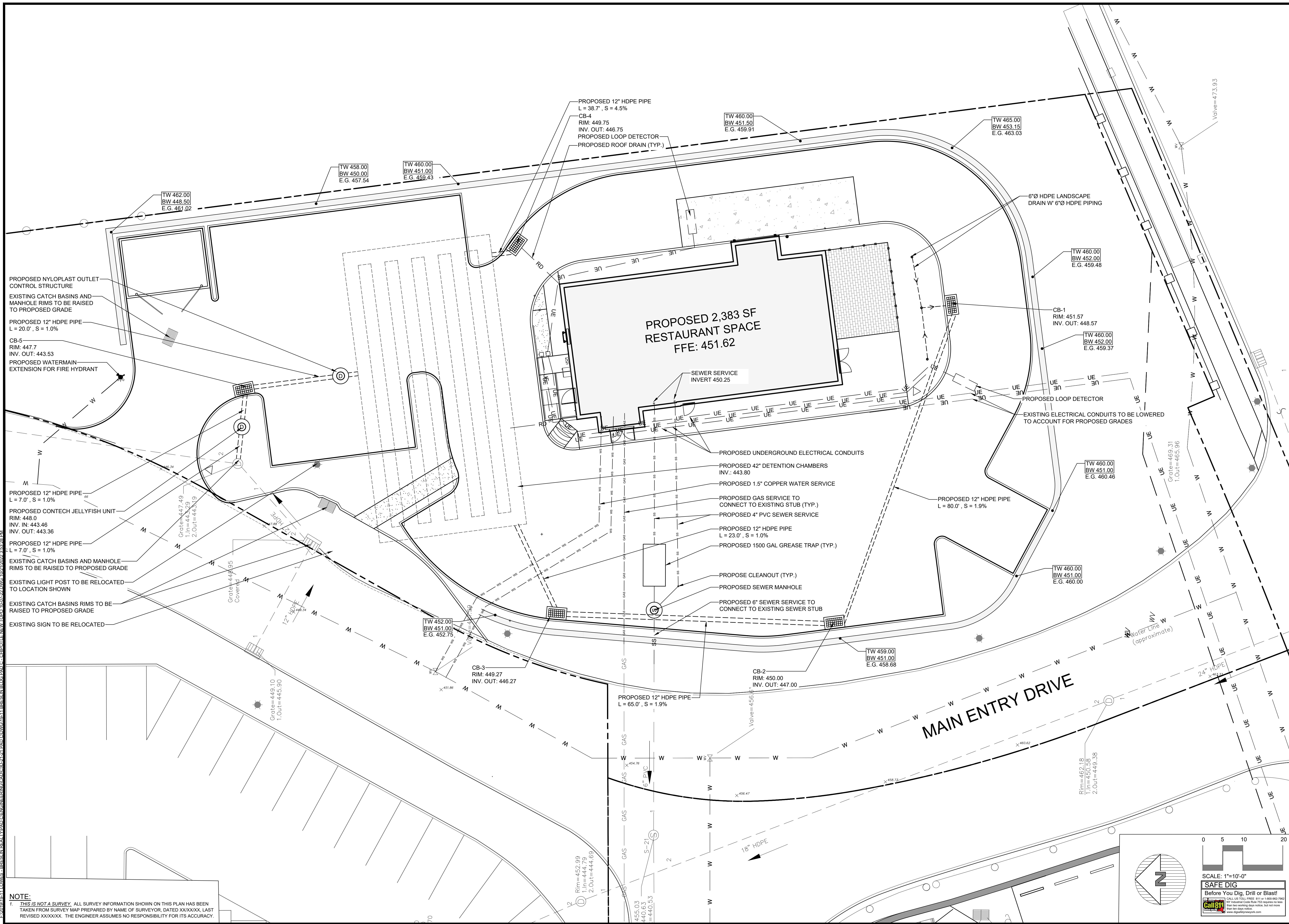
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| 1 | 10/07/22 | Update of elevs |

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| SCALE: | 1" = 10' |
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| DATE: | 10/21/22 |

UTILITY PLAN

SITE PLAN
PREPARED FOR
PAD C
CROMPOD ROAD
Westchester County, New York
Town of Yorktown

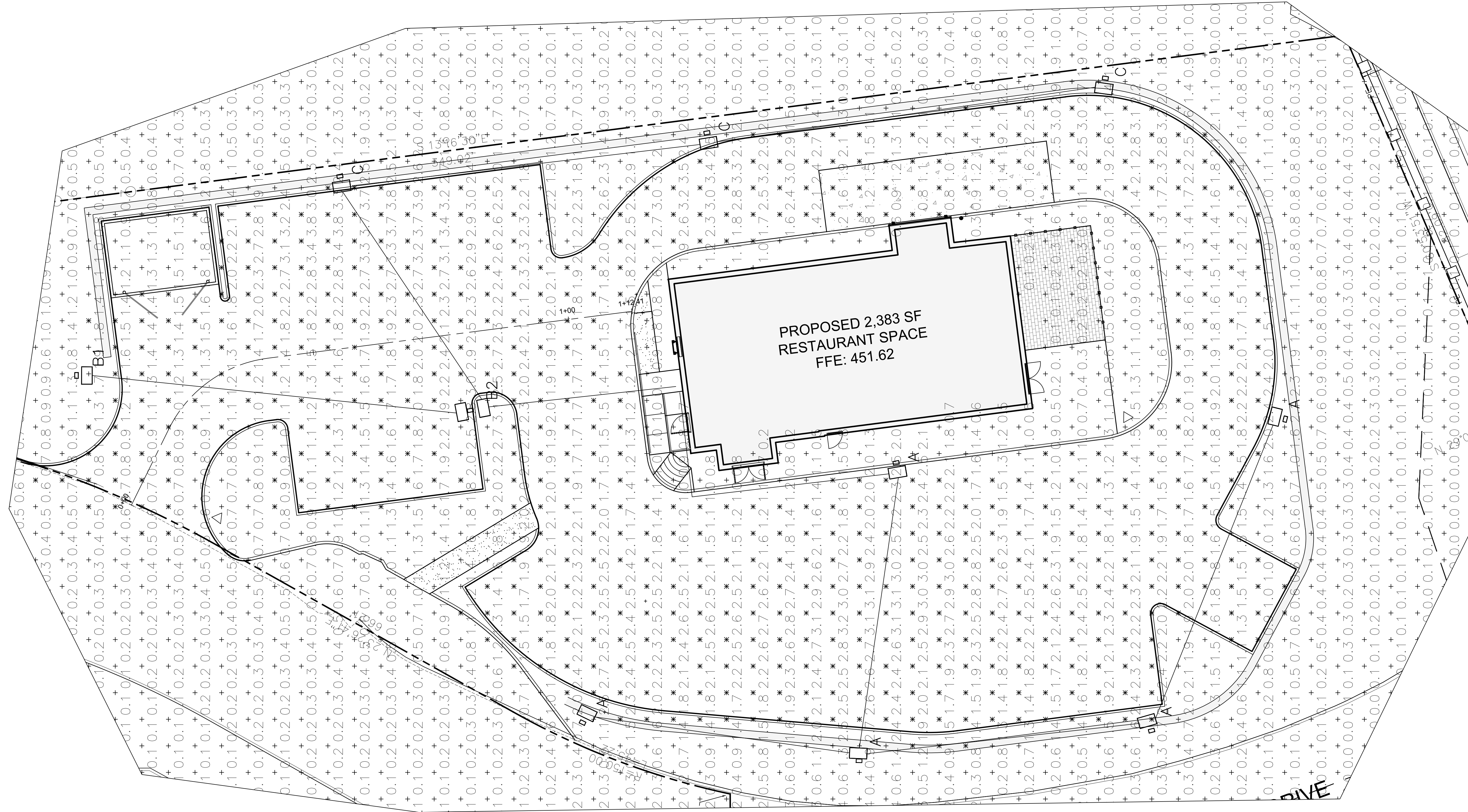
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C-106



NOTE:
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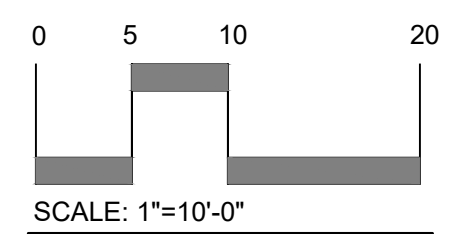
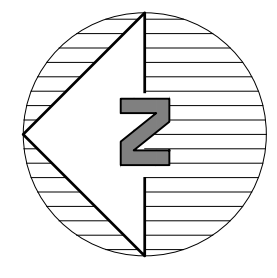


PROPOSED 2,383 SF
RESTAURANT SPACE
FFE: 451.62

| Symbol | Label | QTY | Manufacturer | Catalog | Description | Number Lamps | Lamp Output | LLF | Input Power |
|--------|-------|-----|-------------------|---------------------|--|--------------|-------------|-----|-------------|
| | A | 5 | Lithonia Lighting | DSXO LED P2 30K TFF | DSXO LED P2 30K TFFM MVOLT with houside shield | 1 | 4353 | 0.9 | 49 |
| | B1 | 1 | Lithonia Lighting | DSXO LED P2 30K T5W | DSXO LED P2 30K T5W MVOLT | 1 | 5751 | 0.9 | 49 |
| | B2 | 1 | Lithonia Lighting | DSXO LED P2 30K T5W | DSXO LED P2 30K T5W MVOLT | 1 | 5751 | 0.9 | 98 |
| | C | 3 | Lithonia Lighting | DSXO LED P2 30K BLC | DSXO LED P2 30K BLC MVOLT | 1 | 4572 | 0.9 | 49 |

| Description | Symbol | Avg | Max | Min | Max/Min | Avg/Min |
|--------------------|--------|--------|--------|--------|---------|---------|
| Site | + | 0.6 fc | 3.9 fc | 0.0 fc | N/A | N/A |
| Parking and Drives | X | 2.0 fc | 3.9 fc | 0.6 fc | 6.5:1 | 3.3:1 |

Note
 1. Fixtures Mounted at 16'
 2. Calculations Taken at Grade
 3. Calculations are estimations based on the information provided and may vary with actual conditions



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PROJECT # 19-11

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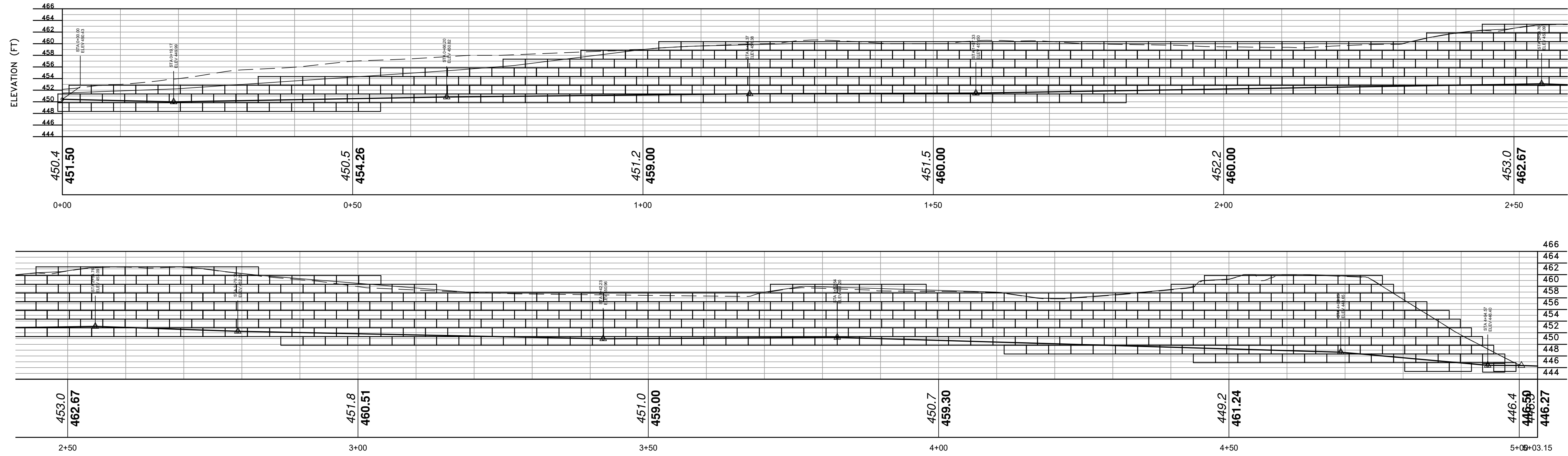
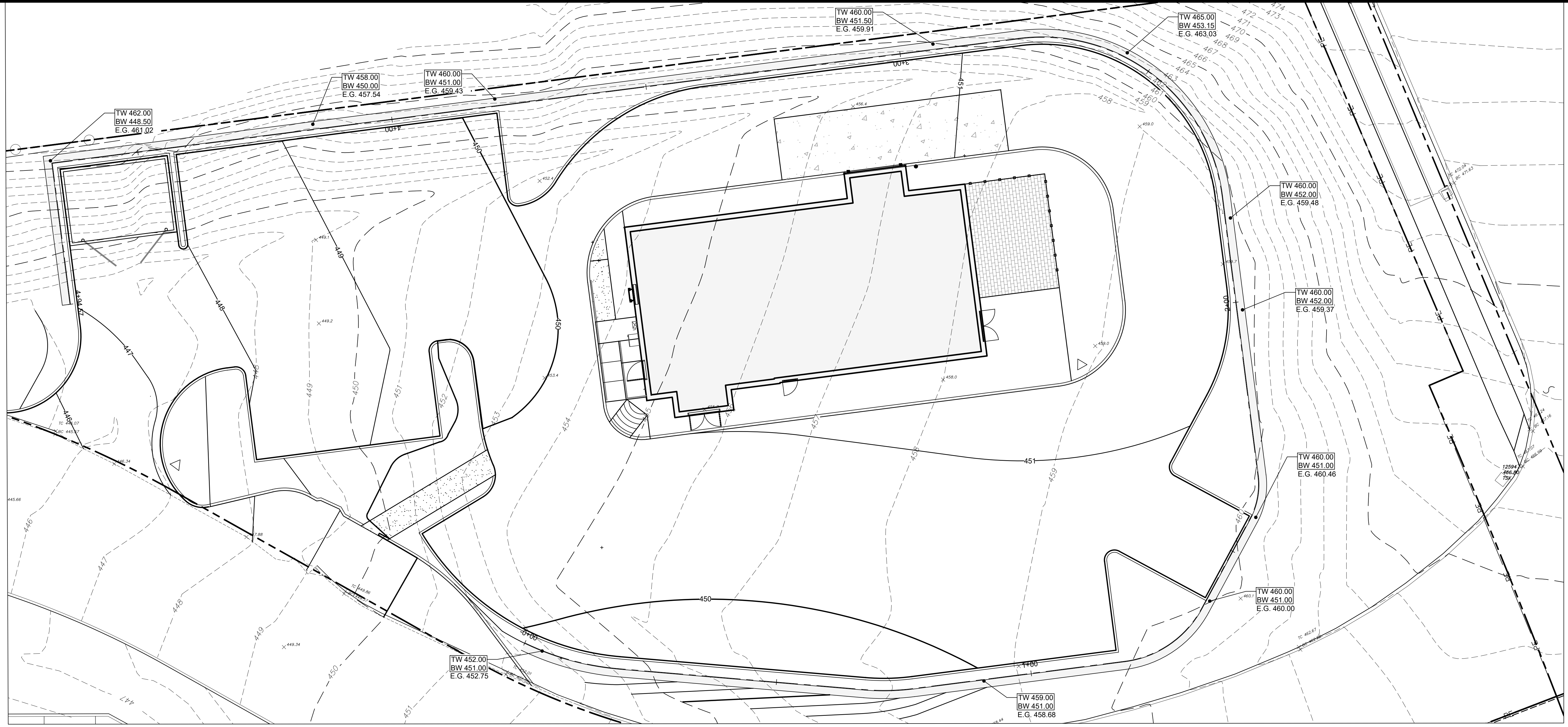
LIGHTING PLAN

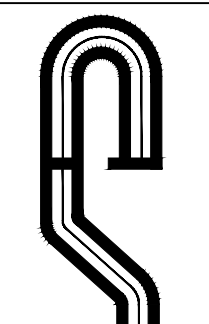
SITE PLAN PREPARED FOR
PAD C

CROMPOUND ROAD
Westchester County, New York


Sheet **C-107**

E:\2018\18-11-LOWES-RESURFACING\ROAD\ENGINEERING\CADD\21-PAD-C\DWG\18-11-RESURF-BLDG-PAD-C-CHEBOTLE-NEW-TOPG-10-02-22.DWG, 10/21/22, 3:52:28 PM





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Engineer:
 Joseph C. Kinn, P.E.
 License No. 100000000000000
 NYS Lic. No. 64431

| Revisions: | No. | Date | Comments |
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| SCALE: 1" = 10' | DRAWN BY: TK | DATE: 10/21/22 |
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RETAINING WALL PLAN

SITE PLAN PREPARED FOR
PAD C
 CROMPOND ROAD
 Town of Yorktown Westchester County, New York

Sheet **C-108**

GENERAL NOTES:

1. THE ENGINEER WHOSE SEAL APPEARS HEREON HAS NOT BEEN RETAINED FOR SUPERVISION OF CONSTRUCTION. SUBSEQUENTLY, HE IS NOT RESPONSIBLE FOR CONSTRUCTION AND THEREFORE ASSUMES NO RESPONSIBILITY FOR CONSTRUCTION PRACTICES, PROCEDURES, AND RESULTS THEREFROM.
2. THE ENGINEER SHALL NOT BE HELD RESPONSIBLE OR HELD ACCOUNTABLE FOR THE INTEGRITY OF ANY STRUCTURES CONSTRUCTED OR UNDER CONSTRUCTION PRIOR TO THE APPROVAL OF THE PLANS.
3. THE TOWN ENGINEER'S OFFICE AND WATER DISTRICT OFFICE IS TO BE NOTIFIED 24 HOURS BEFORE COMMENCING SITE CONSTRUCTION OR WATER MAIN CONNECTION.
4. ALL WORK IS TO BE IN ACCORDANCE WITH THE TOWN'S CODE OF PRACTICE AND SPECIFICATIONS.
5. ALL CONDITIONS, LOCATIONS, AND DIMENSIONS SHALL BE FIELD VERIFIED AND THE ENGINEER SHALL BE IMMEDIATELY NOTIFIED OF ANY DISCREPANCIES.
6. ALL CHANGES MADE TO THE PLANS SHALL BE APPROVED BY THE ENGINEER AND ANY SUCH CHANGES SHALL BE FILED AS AMENDMENTS TO THE ORIGINAL BUILDING PERMIT.
7. ALL WRITTEN DIMENSIONS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER ANY SCALED DIMENSIONS.
8. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CALL IN A "CODE 753" PRIOR TO CONSTRUCTION FOR UNDERGROUND UTILITY LOCATIONS.
9. CONTRACTOR TO VERIFY ALL SUBSTRUCTURES ENCOUNTERED DURING CONSTRUCTION.
10. ANY PROPOSED ELECTRIC AND/OR TELEPHONE SERVICE LINES ARE TO BE PLACED UNDERGROUND.
11. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK USING HIS BEST SKILL AND ATTENTION. HE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
13. THE DESIGN ENGINEER DISCLAIMS ANY LIABILITY FOR DAMAGE OR LOSS INCURRED DURING OR AFTER CONSTRUCTION.
14. THE CONTRACTOR SHALL OBTAIN A COPY AND BE FAMILIAR WITH THE TOWN OF SOMERS "SUBDIVISION ROAD CONSTRUCTION SPECIFICATIONS" CHAPTER A174 OF THE TOWN CODE. THE CONTRACTOR SHALL BE RESPONSIBLE TO ADHERE TO THESE SPECIFICATIONS.

CONTRACTOR RESPONSIBILITIES:

1. ALL WORK ON THE PROJECT SHALL BE PERFORMED IN A WORKMAN LIKE MANNER AND SHALL BE IN ACCORDANCE WITH THE STANDARDS OF THE INDUSTRY. THE OWNER WILL BE THE SOLE JUDGE OF THE ACCEPTABILITY OF THE WORK. MATERIALS AND WORK DEEMED UNACCEPTABLE WILL BE REMOVED AND REDONE AT THE SOLE COST AND RESPONSIBILITY OF THE CONTRACTOR.
2. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT HIS WORK AND WILL BE HELD RESPONSIBLE FOR CONSEQUENTIAL DAMAGES DUE TO HIS ACTIVITIES. THE CONTRACTOR SHALL BE RESPONSIBLE TO THE OWNER FOR THE ACTS AND OMISSIONS OF HIS EMPLOYEE, AND THEIR AGENTS AND EMPLOYEES, AND ANY OTHER PERSONS PERFORMING ANY THE WORK UNDER A SEPARATE CONTRACT WITH THE CONTRACTOR.
3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROPERLY SHORE EXISTING UTILITIES IF REQUIRED BY CONSTRUCTION.
4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE BUILDING INSPECTOR IN ADVANCE OF HIS WORK OR AS THE INSPECTOR DEMANDS APPROPRIATE.
5. ALL CONDITIONS, LOCATIONS AND DIMENSIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND THE OWNER/ENGINEER NOTIFIED IN WRITING OF ANY DISCREPANCIES PRIOR TO THE START OF WORK. THE OWNER/ENGINEER WILL EVALUATE THE SITUATION AND MODIFY THE PLAN AS NECESSARY.
6. ALL CHANGES MADE TO THIS PLAN SHALL BE APPROVED BY THE ENGINEER WHOSE SEAL APPEARS ON THESE DRAWINGS. ANY UNAUTHORIZED ALTERATION OR ADDITIONS TO THIS DRAWING IS A VIOLATION OF SECTION 7209 (2) OF THE NEW YORK STATE EDUCATION LAW.
7. ALL WRITTEN DIMENSIONS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER ANY SCALED DIMENSIONS.
8. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK USING HIS BEST SKILL AND ATTENTION. HE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THIS CONTRACT.
9. THE CONTRACTOR SHALL VERIFY ALL SUBSTRUCTURES ENCOUNTERED DURING CONSTRUCTION.
10. THE DESIGN ENGINEER DISCLAIMS ANY LIABILITY FOR DAMAGE OR LOSS INCURRED DURING OR AFTER CONSTRUCTION.
11. THE CONTRACTOR SHALL SECURE & PAY FOR A BUILDERS RISK POLICY TO COVER THE PERIOD OF CONSTRUCTION. THE ENGINEER & OWNER SHALL BE NAMED AS ADDITIONAL INSURED. ALL CONTRACTORS EMPLOYED AT THE SITE SHALL BE COVERED BY WORKMAN'S COMPENSATION.
12. ENGINEER WHOSE SEAL APPEARS HEREON HAS NOT BEEN RETAINED FOR SUPERVISION OF CONSTRUCTION. CONSEQUENTLY, HE IS NOT RESPONSIBLE FOR CONSTRUCTION AND THEREFORE ASSUMES NO RESPONSIBILITY FOR CONSTRUCTION PRACTICES, PROCEDURES, AND RESULTS THEREFROM.
13. THE CONTRACTOR OR FIELD ENGINEER SHALL NOTIFY ALL AGENCIES 48 HR. PRIOR TO START OF THE SITE WORK.

GENERAL CONSTRUCTION NOTES:

1. ALL CONSTRUCTION TO BE DONE IN ACCORDANCE WITH CONSTRUCTION SPECIFICATIONS SET FORTH IN THESE DOCUMENTS AND LAND SUBDIVISION REGULATIONS OF THE TOWN OF YORKTOWN.
2. PERMANENT SURVEY MONUMENTS TO BE LOCATED WHERE SPECIFIED BY THE TOWN ENGINEER.
3. BENCH MARKS USING NAVD DATUM SHALL BE OF SUCH ELEVATION THAT THE GROUND WILL SLOPE AWAY FROM IT IN ALL DIRECTIONS.
4. CONSTRUCTION ACTIVITY SHALL BE LIMITED FROM 8:00 A.M. TO 6 P.M., AND NO CONSTRUCTION ACTIVITY SHALL OCCUR ON SUNDAYS OR LEGAL NEW YORK STATE HOLIDAYS. WHERE BLASTING IS NECESSARY, IT SHALL OCCUR FROM MONDAY THROUGH FRIDAY BETWEEN THE HOURS OF 8:00 A.M. AND 6:00 P.M. NO BLASTING SHALL OCCUR ON HOLIDAYS, SATURDAY OR SUNDAY. ALL BLASTING SHALL ALSO BE COMPLETED IN ACCORDANCE WITH THE TOWN OF SOMERS AND NEW YORK STATE BLASTING ORDINANCES.
5. ANY SOIL THAT IS UNSUITABLE FOR DEVELOPMENT OF BUILDINGS OR ROADWAYS SHALL BE REMOVED FROM AREAS TO BE DEVELOPED AND SHALL BE DISPOSED OF WITHIN THE SITE IN NEW EMBANKMENTS WHERE STRUCTURAL LOADING, I.E. A BUILDING OR ROADWAY, WILL NOT TAKE PLACE. WHEN CONSTRUCTION IS PROPOSED TO OCCUR IN SPECIFIC AREAS WHERE SOILS ARE OF QUESTIONABLE SUITABILITY, THE APPLICANT SHALL PROVIDE SOILS ENGINEERING REPORTS AS REQUIRED BY THE PLANNING BOARD ENGINEER, PRIOR TO THE CONSTRUCTION OF ROADWAYS AND, AS REQUIRED BY THE BUILDING INSPECTOR, PRIOR TO THE ISSUANCE OF A BUILDING PERMIT.
6. NO TOPSOIL SHALL BE REMOVED FROM THE SITE.
7. ROCK CUT STABILITY IS TO BE FIELD VERIFIED BY GEOTECHNICAL ENGINEER AND SHALL BE MODIFIED IF REQUIRED.
8. NO CRUSHING/PROCESSING IS PERMITTED ON THE SITE WITHOUT PRIOR APPROVAL BY THE TOWN OF YORKTOWN PLANNING BOARD.

GENERAL STORM DRAINAGE & UTILITY NOTES

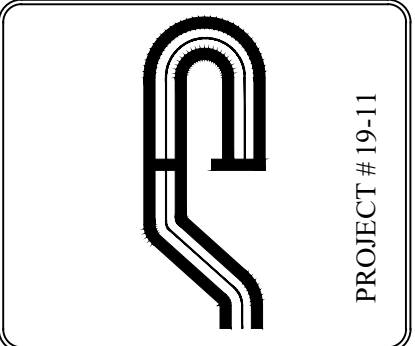
1. ALL UTILITIES, INCLUDING ELECTRIC LINES, TELEPHONE, WATER, SANITARY SEWER LINES, AND STORM SEWER LINES SHALL BE LOCATED UNDERGROUND AND SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE TOWN OF YORKTOWN AND THE UTILITY COMPANIES HAVING JURISDICTION.
2. LOCATION OF GAS AND WATER VALVES, ELECTRIC AND TELEPHONE POLES ARE TO BE DETERMINED BY PROPER AUTHORITIES AND APPROVED, AS TO LOCATION, BY THE TOWN ENGINEER.
3. ROOF LEADERS SHALL EMPTY INTO THE STORM DRAINAGE SYSTEM. UNDER NO CIRCUMSTANCES SHALL THE DISCHARGE OF GROUND WATER OR STORM WATER, EITHER BY GRAVITY OR BY PUMPING, BE DISCHARGED TO ANY SANITARY SEWER SYSTEM.
4. ANY REVISIONS AND/OR ADDITIONS TO THE ROAD STORM DRAINAGE SYSTEMS CURRENTLY SHOWN ON THE PLANS WHICH ARE DEEMED NECESSARY DURING CONSTRUCTION MUST BE MADE BY THE CONTRACTOR AS REQUIRED BY THE TOWN AND SHALL BE SHOWN ON THE AS-BUILT DRAWINGS.
5. STORM DRAIN PIPING TO BE HIGH DENSITY POLYETHYLENE AS SHOWN ON THE CONSTRUCTION DRAWINGS. MINIMUM COVER TO BE 2' UNLESS OTHERWISE NOTED.
6. INTERCEPTOR DRAINS ARE TO BE INSTALLED WHERE REQUIRED BY THE TOWN OR PROJECT ENGINEER DURING CONSTRUCTION.
7. ALL EXISTING UNDERGROUND DRAINS ENCOUNTERED DURING CONSTRUCTION OF PROPOSED ROADS ARE TO BE CONNECTED TO PROPOSED DRAINAGE IMPROVEMENTS. CONNECTIONS TO BE APPROVED BY THE ENGINEER.
8. DURING THE CONSTRUCTION OF THE PROJECT, ALL CATCH BASINS AND MANHOLES WILL BE MAINTAINED BY THE SITE CONTRACTOR.
9. PRIOR TO FINAL APPROVAL AND OPERATION OF DRAINAGE SYSTEM, CONTRACTOR SHALL CLEAR ALL ACCUMULATED SEDIMENT AND/OR DEBRIS FROM DRAINAGE STRUCTURES, MANHOLES, CULVERTS, OUTLETS AND DRAIN INLETS. ENGINEER SHALL BE NOTIFIED FOR FINAL INSPECTION.
10. ALL STRUCTURES SHALL BE SET ONE INCH BELOW PAVEMENT.

WALL NOTES:

1. EXCAVATION IN GENERAL SHALL CONFORM TO THE LINES AND GRADES SHOWN ON THE CONTRACT DRAWINGS.
2. THE ENGINEER SHALL BE NOTIFIED OF UNSUITABLE SUB-GRADE SOILS PRIOR TO PLACEMENT OF WALL.
3. WALLS TO BE CONSTRUCTED ON VIRGIN IN-SITU SOIL SHALL HAVE A MINIMUM ALLOWABLE BEARING CAPACITY OF 2 TSF. ALL OTHER CONDITIONS SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER.
4. TO INSURE A PROPER BEARING SURFACE, THE WALL SHALL BE CONSTRUCTED ON NATURAL IN-SITU SOIL. THE CONTRACTOR SHALL STRIP ALL TOP SOIL. THE AREA SHALL THEN BE COMPACTED USING SUITABLE COMPACTION EQUIPMENT. A MINIMUM OF 3 PASSES SHALL BE MADE.
5. WALLS SHALL NOT BE CONSTRUCTED ON WET OR FROZEN GROUND.
6. SOILS USED AS BACKFILL SHALL CONSIST OF CLEAN DRY SOIL. THE MATERIAL SHALL BE GRANULAR AND FREE OF ORGANIC OR OTHER DELETERIOUS MATERIAL. IN GENERAL THE SOIL SHALL BE NON-PLASTIC WITH A PLASTICITY INDEX LESS THAN 5 AND SHALL CONFORM TO THE AASHTO SOIL CLASSIFICATION SYSTEM FOR AN "A-1-A" SOIL. HOWEVER THE MAXIMUM SIZE SHALL BE 6". IN GENERAL ALL FILL SHALL BE APPROVED BY THE ENGINEER PRIOR TO ITS USE. WET MATERIAL OR UNSUITABLE MATERIAL SHOULD NOT BE USED.
7. BACKFILL SHALL BE PLACED AND COMPACTED IN A MAXIMUM 12" LIFTS.
8. ALL BOULDER RETAINING WALLS SHALL HAVE A GEOTEXTILE FABRIC BACKING FOR THE FULL HEIGHT OF THE WALL AS MANUFACTURED BY MIRAFI OR APPROVED EQUAL.
9. IF GROUNDWATER IS ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY TO DETERMINE IF THE ADDITION OF AN UNDERDRAIN MAY BE REQUIRED.
10. THE CONTRACTOR SHALL NOT USE LARGE OR HEAVY CONSTRUCTION EQUIPMENT WITHIN 5' OF THE RETAINING WALLS OR NEW FOUNDATION WALLS. HAND OPERATED COMPACTING EQUIPMENT SHALL BE USED WITHIN 5' OF THE WALL FACE.
11. ALTERNATE WALL DESIGNS MUST BE SEALED BY A NEW YORK STATE LICENSED PROFESSIONAL ENGINEER THE MINIMUM FACTORS OF SAFETY FOR SLIDING AND OVERTURNING SHALL BE 2.0.
12. THE CONTRACTOR WILL BE REQUIRED TO PROVIDE A SHORING DESIGN FOR THE INSTALLATION OF THE RETAINING WALL TO PROTECT THE EXISTING ROADWAY AND UTILITY INFRASTRUCTURE. THE DESIGN MUST BE PREPARED BY A NYS LICENSED PROFESSIONAL ENGINEER AND SUBMITTED TO THE PROJECT ENGINEER AND THE TOWN ENGINEER FOR APPROVAL.

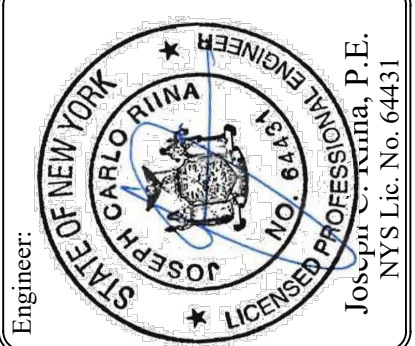
LEGEND

- EXISTING GRADING
- EXISTING SPOT GRADE
- PROPOSED GRADING
- PROPERTY LINE / RIGHT OF WAY
- PROPOSED ROAD CENTERLINE
- PROPOSED CURB
- EXISTING WATER LINE
- EXISTING FIRE HYDRANT
- EXISTING DRAINAGE INLET
- EXISTING SANITARY LINE
- EXISTING HEADWALL
- PROPOSED DRAINAGE LINE
- PROPOSED CATCH BASIN
- PROPOSED ROOF DRAIN
- PROPOSED SEWER SERVICE CONNECTION
- PROPOSED WATER SERVICE CONNECTION
- PROPOSED UNDERGROUND ELECTRIC SERVICE
- PROPOSED GAS SERVICE
- PROPOSED LIGHT POST
- PROPOSED BUILDING AND DRIVE
- PROPOSED RETAINING WALLS
- PROPOSED SOIL STOCKPILES
- PROPOSED SILT FENCE
- PROPOSED CRUSHED STONE INLET PROTECTION
- PROPOSED STABILIZED CONSTRUCTION ENTRANCE
- PROPOSED LIMIT OF DISTURBANCE



PROJECT # 19-11

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| Revisions: | | Date | Comments |
|------------|----|----------|-------------|
| No. | 1. | 11/29/22 | Plan Update |
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| SCALE: NTS | DRAWN BY: TK | DATE: 10/21/22 |
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NOTES

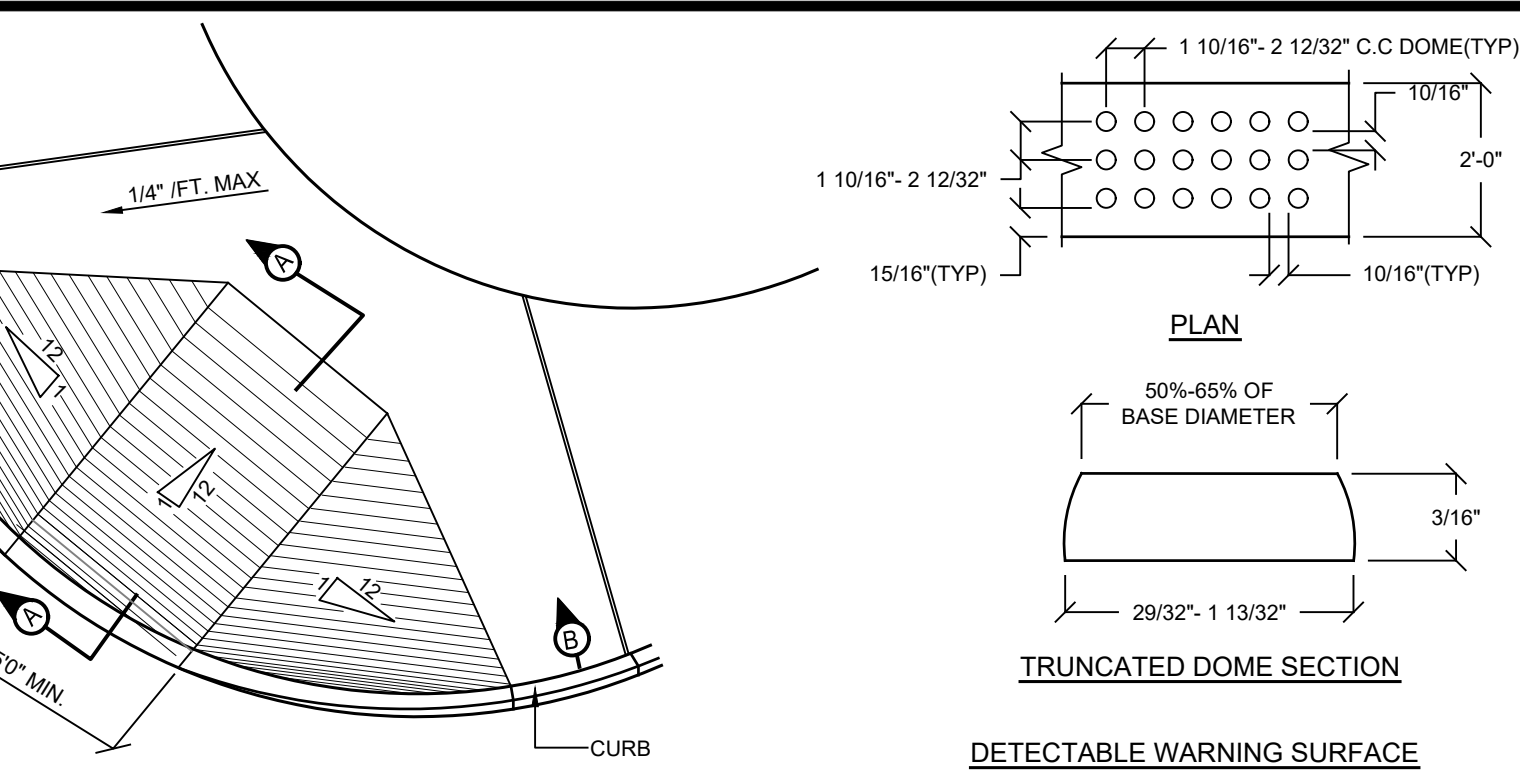
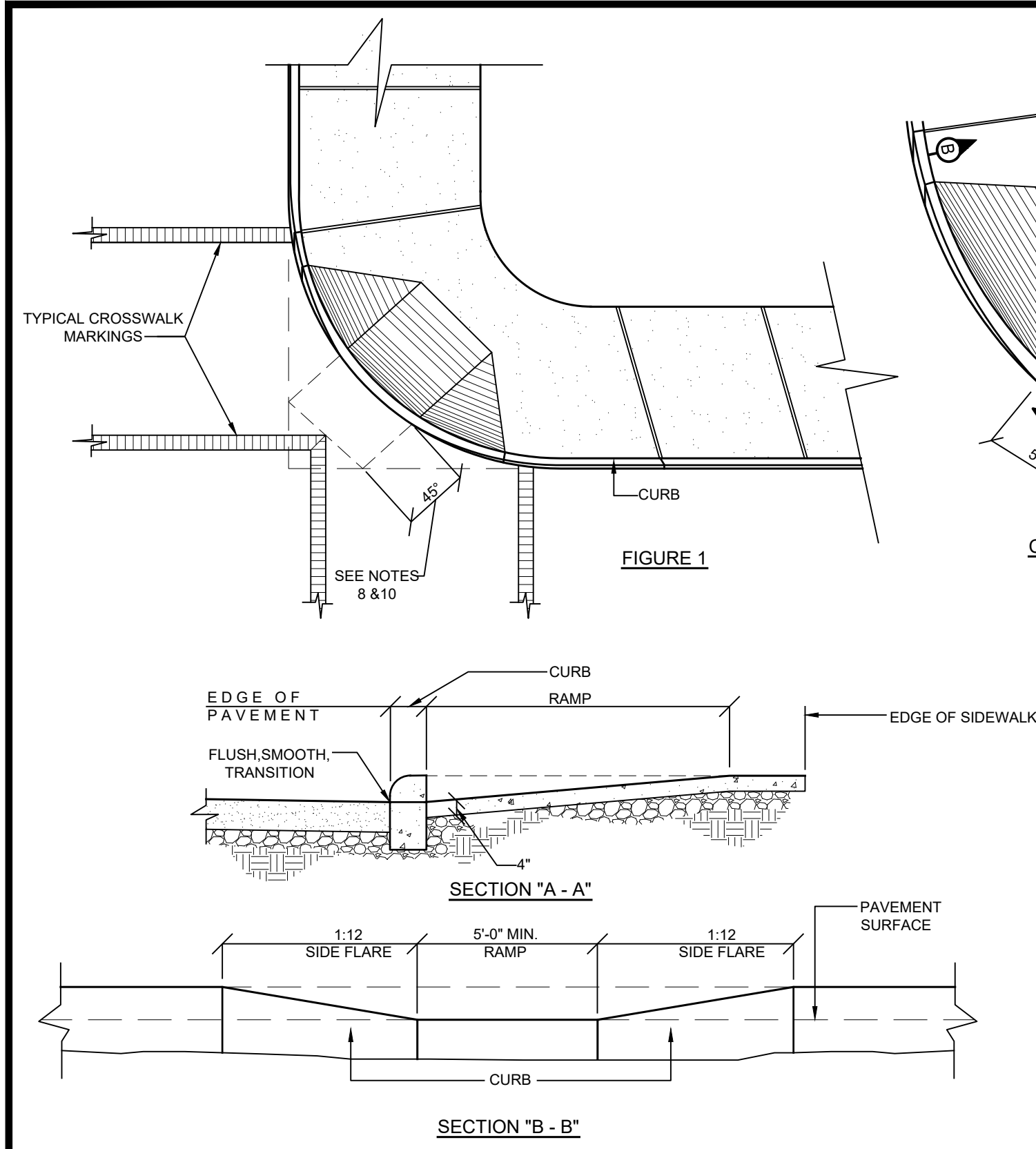
SITE PLAN PREPARED FOR
PAD C
 CROMPOND ROAD
 Westchester County, New York
 Town of Yorktown

Sheet **C-501**

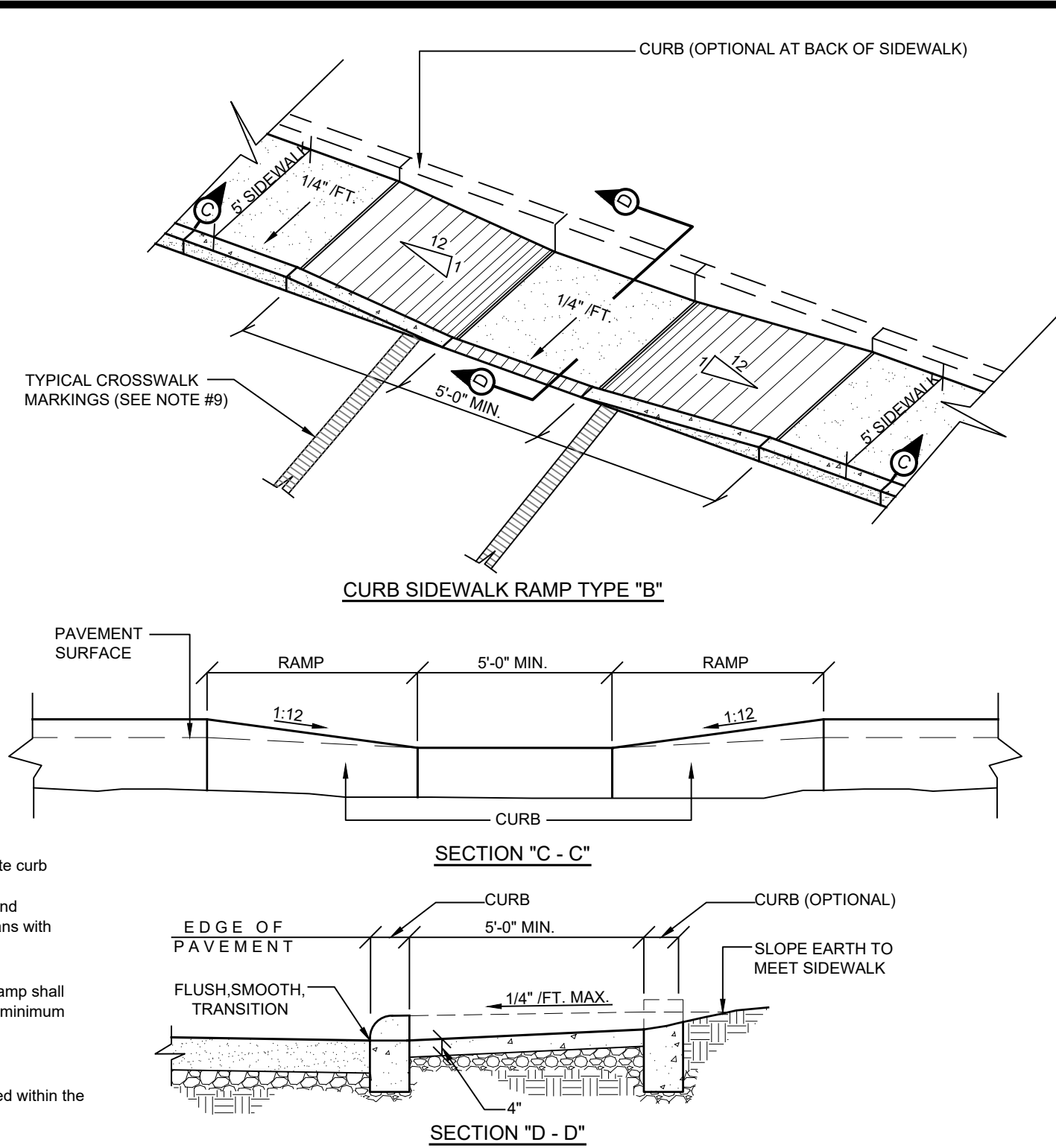
E:\2018\19-11\LOWES-ARBES\REALTY\PAD_C\ENGINEERING\CAD\C-501-24_BLD_CD\DWG\19-11-LOWES_PAD_C_DETAIL_S.DWG

NOTE: UNAUTHORIZED ALTERATIONS OR ADDITIONS TO THIS DRAWING IS A VIOLATION OF SECTION 7209 (2) OF THE NEW YORK STATE EDUCATION LAW

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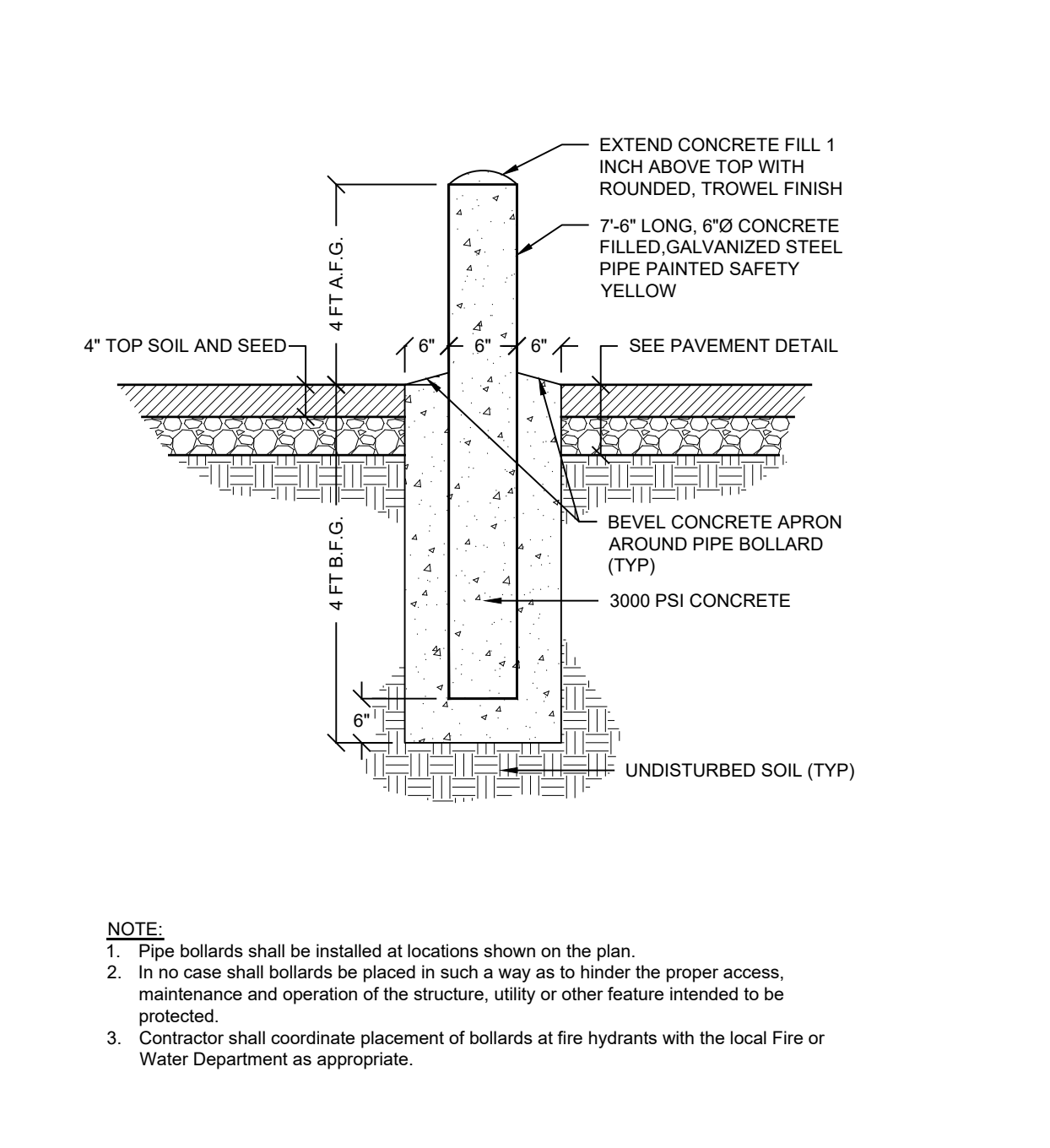
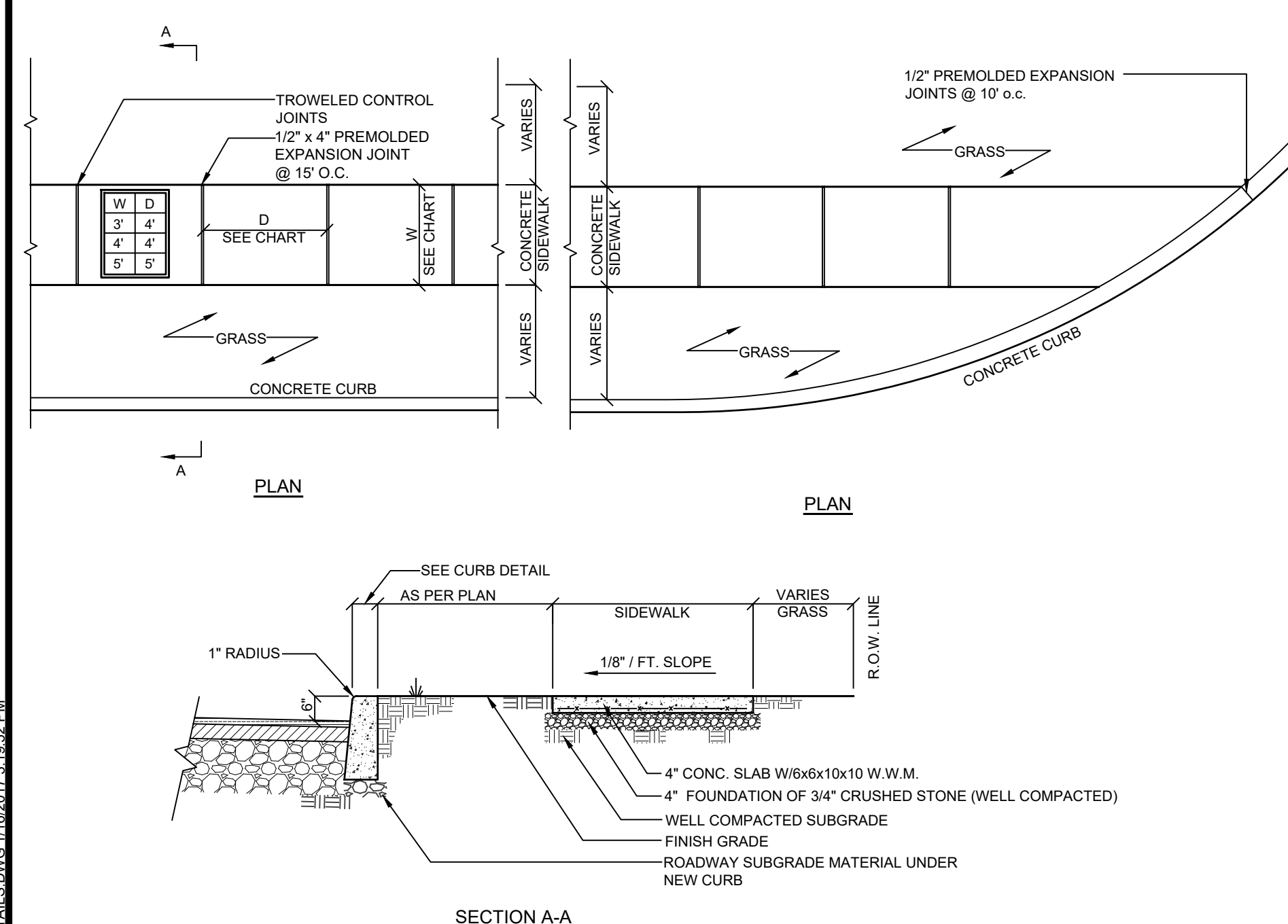


- NOTES:**
- GENERAL:**
- Sidewalk curb ramp type and location are as shown on the plans or as directed.
 - All sidewalk curb ramp types may be used as straight or curved curb sections.
 - Sidewalk curb ramp types may be different at each location within an intersection.
- SIDEWALK CURB RAMP CRITERIA:**
- The maximum slope of a sidewalk curb ramp shall be 1:12.
 - The maximum width of a sidewalk curb ramp shall be five feet. Exclusive of flared sides.
 - All sidewalk curb ramps shall have flush, smooth transitions to the adjacent street or highway surface.
- SURFACE FINISH:**
- The surface of all sidewalk curb ramps shall be stable, firm, and slip resistant (E.G. A coarse broom finish perpendicular to the ramp slope is acceptable on cement concrete curb ramps.)
 - All proposed sidewalk curb ramps shall have a detectable warning surface installed from the back of the curb for a distance of 2 feet in the direction of travel on the ramp and extending the full width of the ramp, excluding the ramp sides or flares. The detectable warning surface shall comply with the requirements of section 4.29.2 of the Americans with Disabilities Act accessibility guidelines (ADAAG).
- SIDEWALK CURB RAMP PLACEMENT:**
- At a corner, where the curb radius is 25-feet or less, a single ramp (either type a or b) located diagonally can often serve crosswalks in two directions. However, a single ramp shall only be used where there is a minimum clear space of 48" falling entirely within the projection of the intersection curbs (see figure 1). Where the radius exceeds 25' or the minimum 48" clear space is not achievable, then separate ramps should be provided for each crosswalk.
- PAVEMENT MARKINGS AT CROSSWALKS:**
- Sidewalk curb ramps at marked crossings shall be wholly contained within the markings excluding any flared sides.
 - At a corner where a single ramp (either type a or b) located diagonally serves two crosswalks, this shall be a 48" minimum clear space at the ramp bottom wholly contained within the intersection crosswalk markings (see figure 1).
- UTILITIES - DRAINAGE INLETS OR GRATES:**
- Where feasible, provide for drainage inlets or grates immediately upstream from the curb ramps. Rectilinear or rectangular drainage grates are to be used in the area of curb ramps.
 - Do not place signal poles, sign posts, utility poles, fire hydrants, etc., within the ramp or side flare areas.



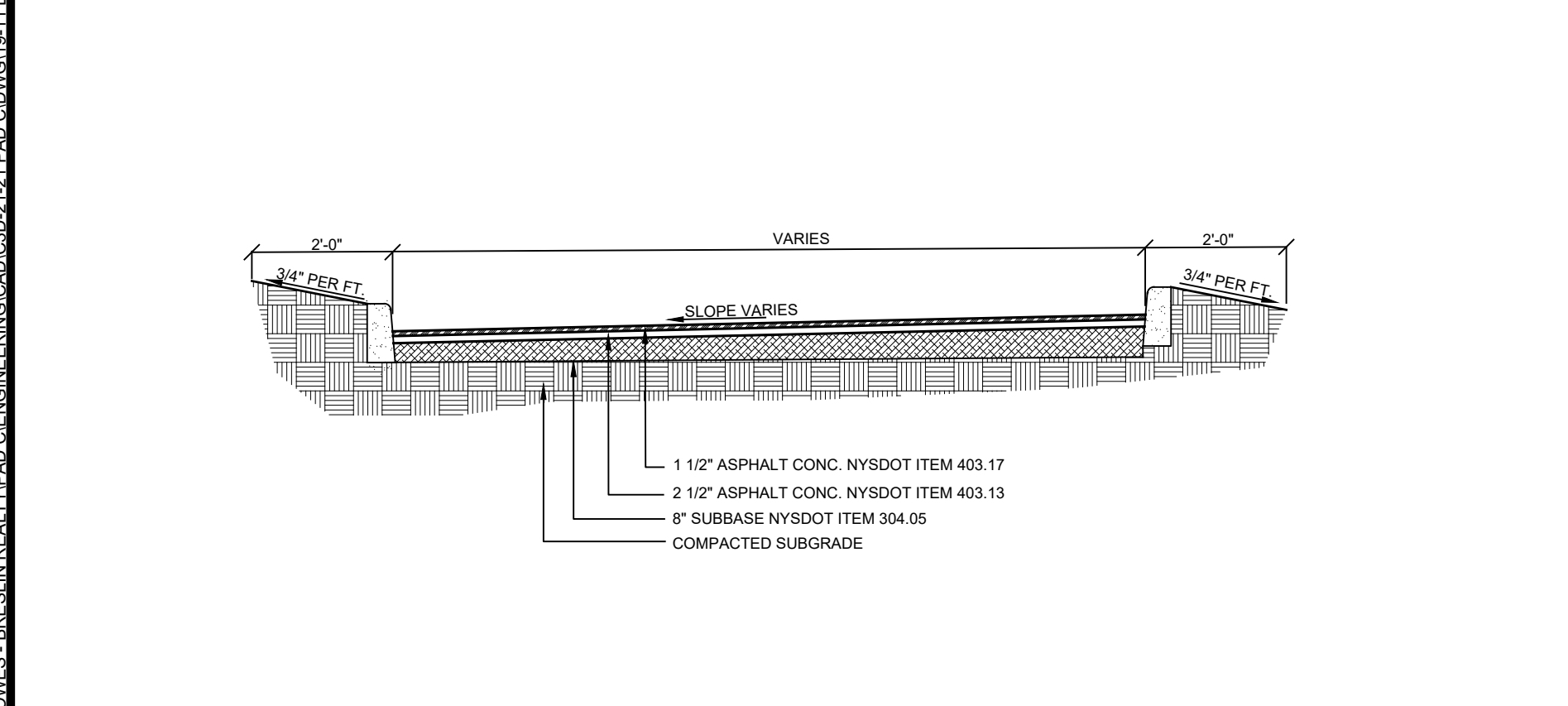
R-1

SIDEWALK CURB-RAMP DETAIL
NOT TO SCALE



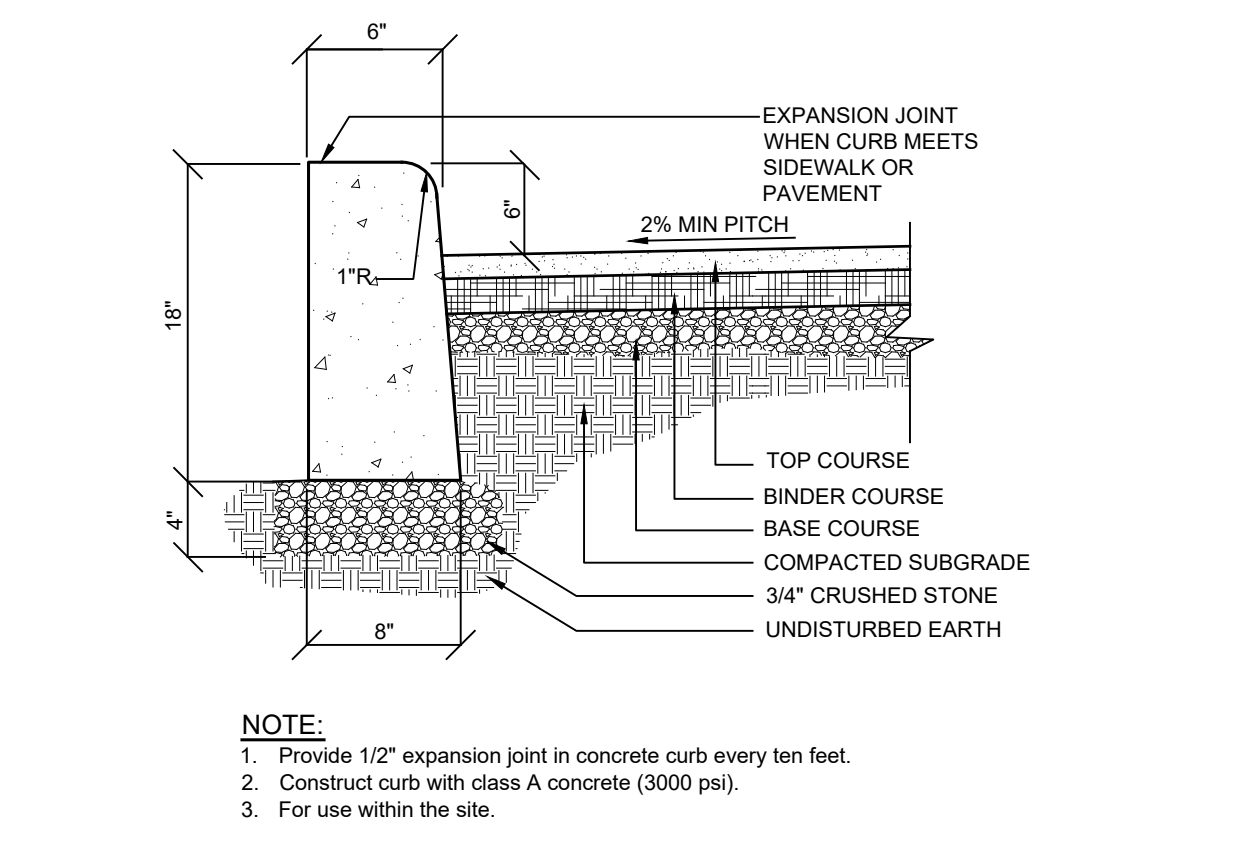
R-2

CONCRETE SIDEWALK DETAIL
NOT TO SCALE



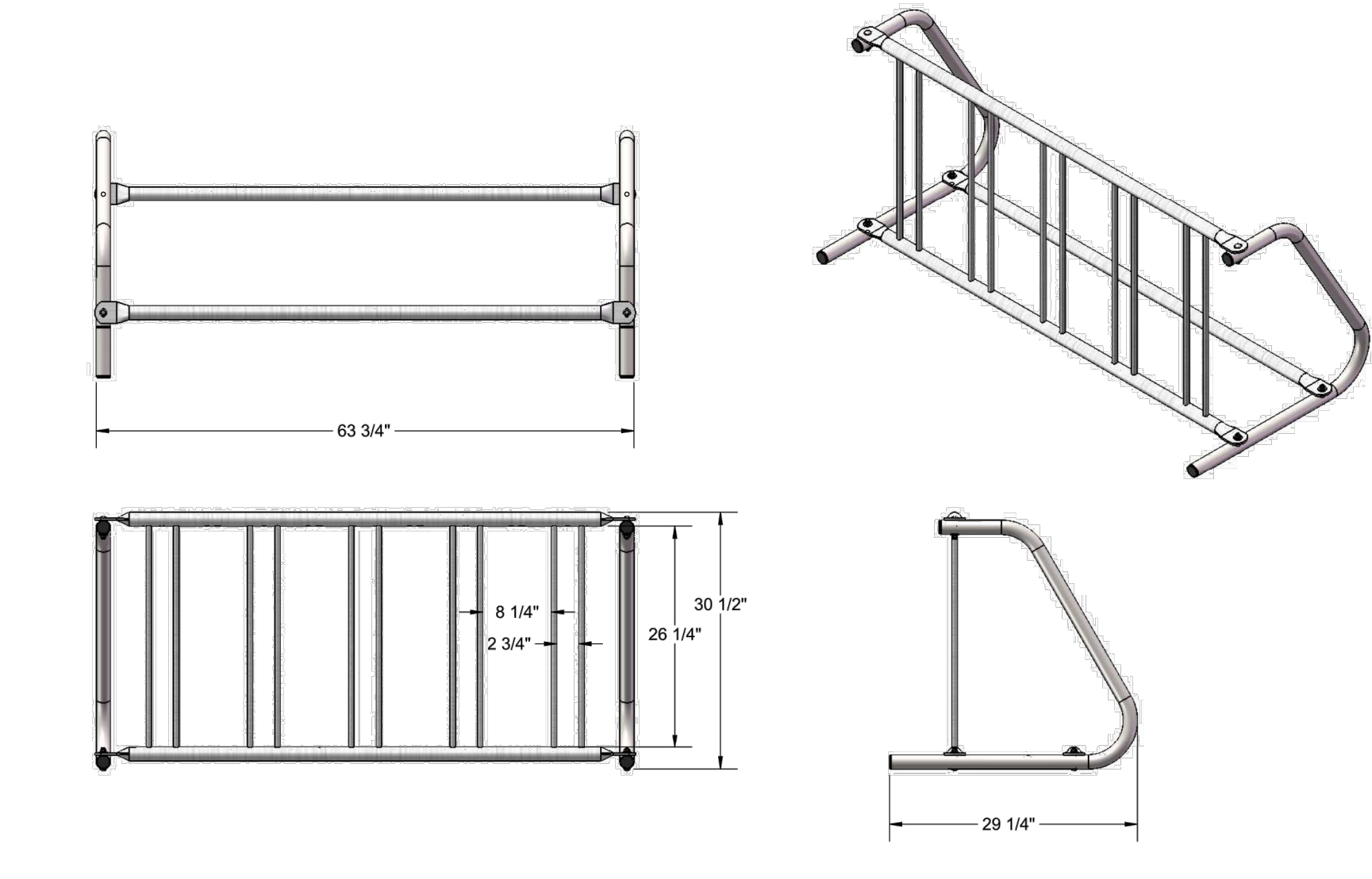
R-6

PIPE BOLLARD DETAIL
NOT TO SCALE



S-2

MONUMENT SIGN DETAIL
NOT TO SCALE



R-3

TYPICAL DRIVEWAY AND PARKING LOT SECTION
NOT TO SCALE

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R-5

CONCRETE CURB DETAIL
NOT TO SCALE

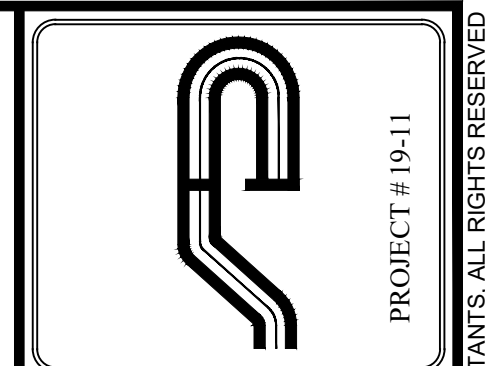
NOTE:

- Provide 1/2" expansion joint in concrete curb every ten feet.
- Construct curb with class A concrete (3000 psi).
- For use within the site.

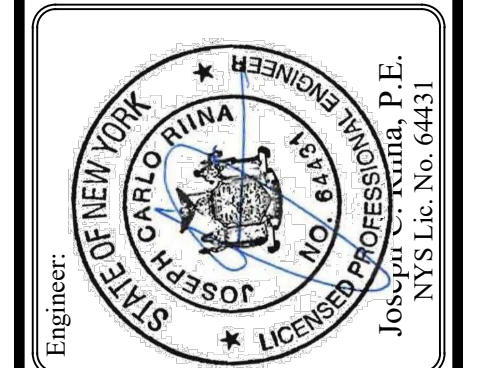
S-1

BIKE RACK DETAIL
NOT TO SCALE

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| Revisions: | No. | Date | Comments |
|------------|-----|----------|-------------|
| | 1 | 11/29/22 | Plan Update |

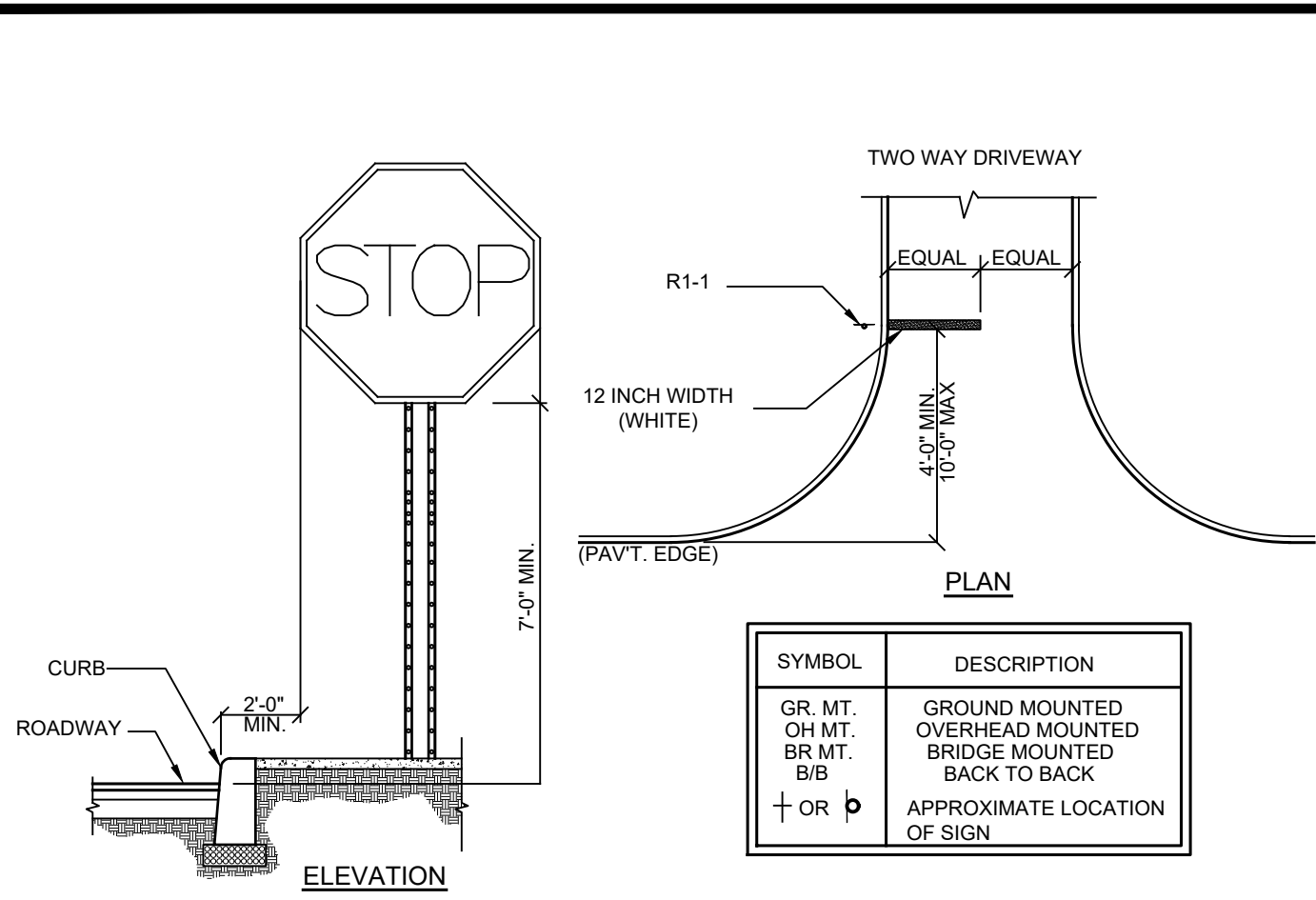
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| SCALE: | NTS |
| DRAWN BY: | TK |
| DATE: | 10/21/22 |

SITE DETAILS

SITE PLAN PREPARED FOR
PAD C
CROMPOD ROAD
Westchester County, New York
Town of Yorktown

Sheet **C-503**

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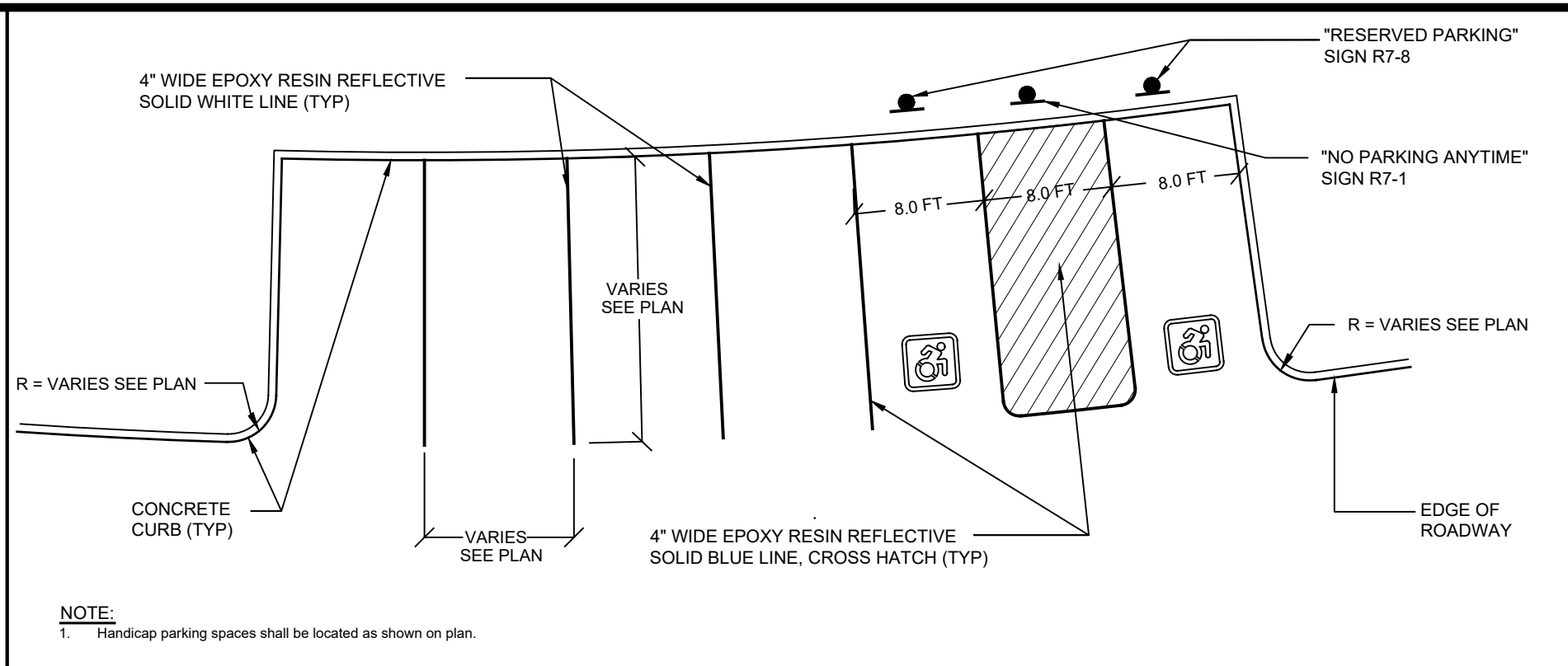
TYPICAL INSTALLATION GUIDELINES

| SIGN | M.U.T.C.D. NUMBER | SIZE OF SIGN | TYPE OF MOUNT |
|------|-------------------|--------------|---------------|
| | R1-1 | 30" X 30" | GR. MT. |
| | R7-8 | 12" X 18" | GR. MT. |
| | R3-15 | 24" X 24" | GR. MT. |

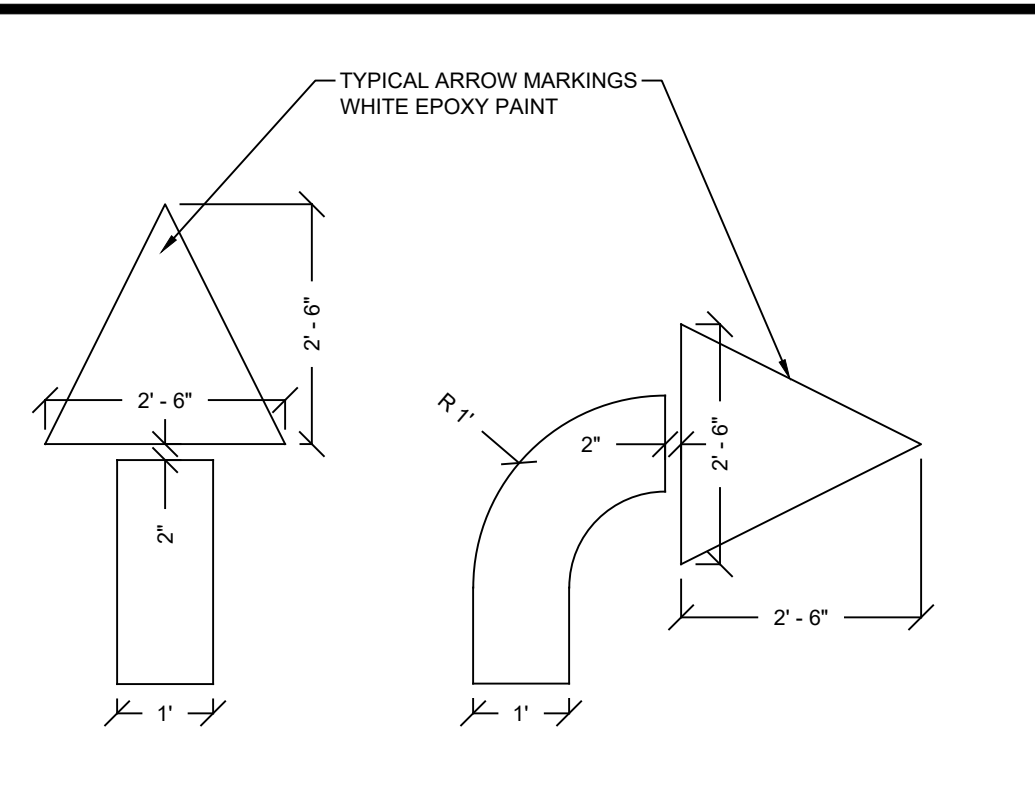
| SIGN | M.U.T.C.D. NUMBER | SIZE OF SIGN | TYPE OF MOUNT |
|------|------------------------|--------------|---------------|
| | R7-1 | 12" X 18" | GR. MT. |
| | R3-12 (L) R3-13 (R) | 12" X 18" | GR. MT. |
| | P1-2 (SEE NOTE 4) | 12" X 18" | GR. MT. |

- GENERAL NOTES:**
- All signage shall be in accordance with the latest edition of the national MUTCD and the N.Y.S Supplement (MUTCD), September 2007, including the following:
 - A. Letter size and series
 - B. Legend and background color
 - C. Reflectivity
 - D. Size of sign
 - The type of characters as specified in the standard specifications shall be as follows:

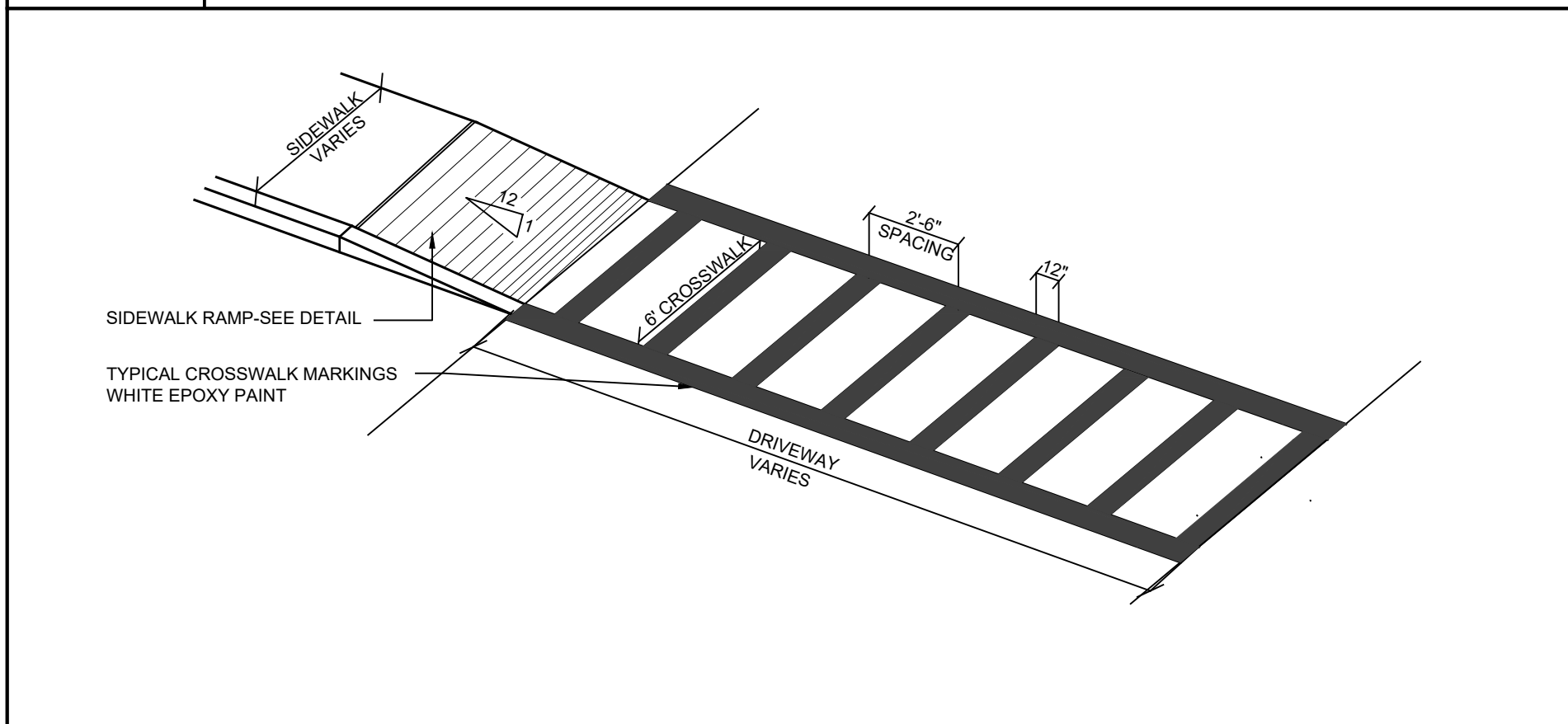
| MUTCD CODE LETTER | TYPE OF CHARACTER |
|-------------------|-------------------|
| G.I. | TYPE IV |
| R.P.W.M. | TYPE IV OR V |
 - Sign locations as shown on plans are approximate. The Contractor shall relocate existing signs and install new signs in accordance with the MUTCD, latest edition. The Contractor shall contact the Town Engineer to discuss/resolve problem areas.
 - Except where otherwise specified, parking signs shall be placed facing approaching traffic at an angle of between 30 and 45 degrees with the line of traffic flow. Parking signs shall be placed at each end of a regulation (single-headed arrows) and, within the regulation (double-headed arrows), at intervals not to exceed 200 ft.
 - Where new signs are installed the Contractor shall affix a label to the back of the sign panel. This label will show the date of installation and identification numbers.
 - Placement of W3-17 sign is prescribed in the General Municipal Law.



R-10 TYPICAL PARKING STALL LAYOUT
NOT TO SCALE

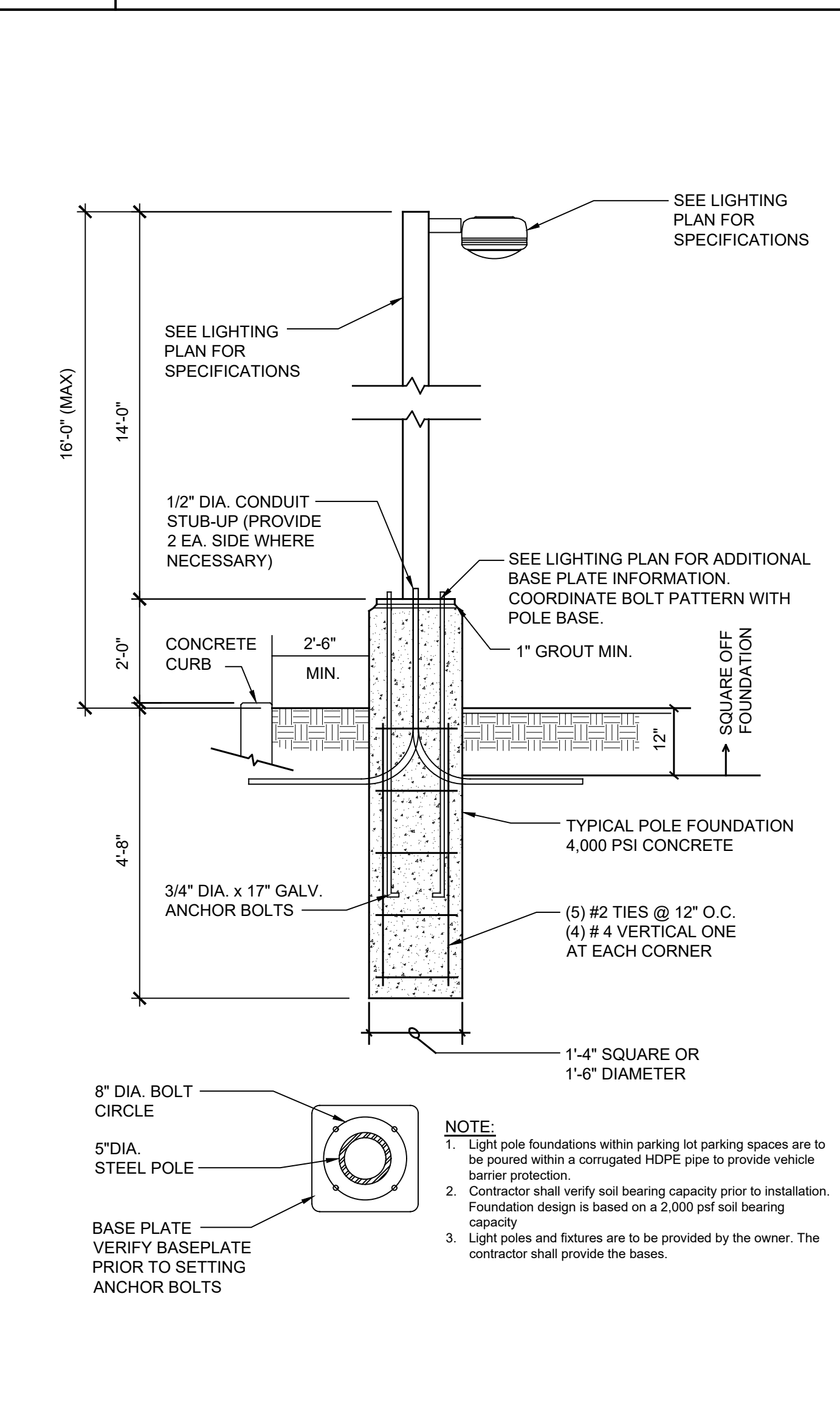


R-11 PAVEMENT ARROWS DETAIL
NOT TO SCALE

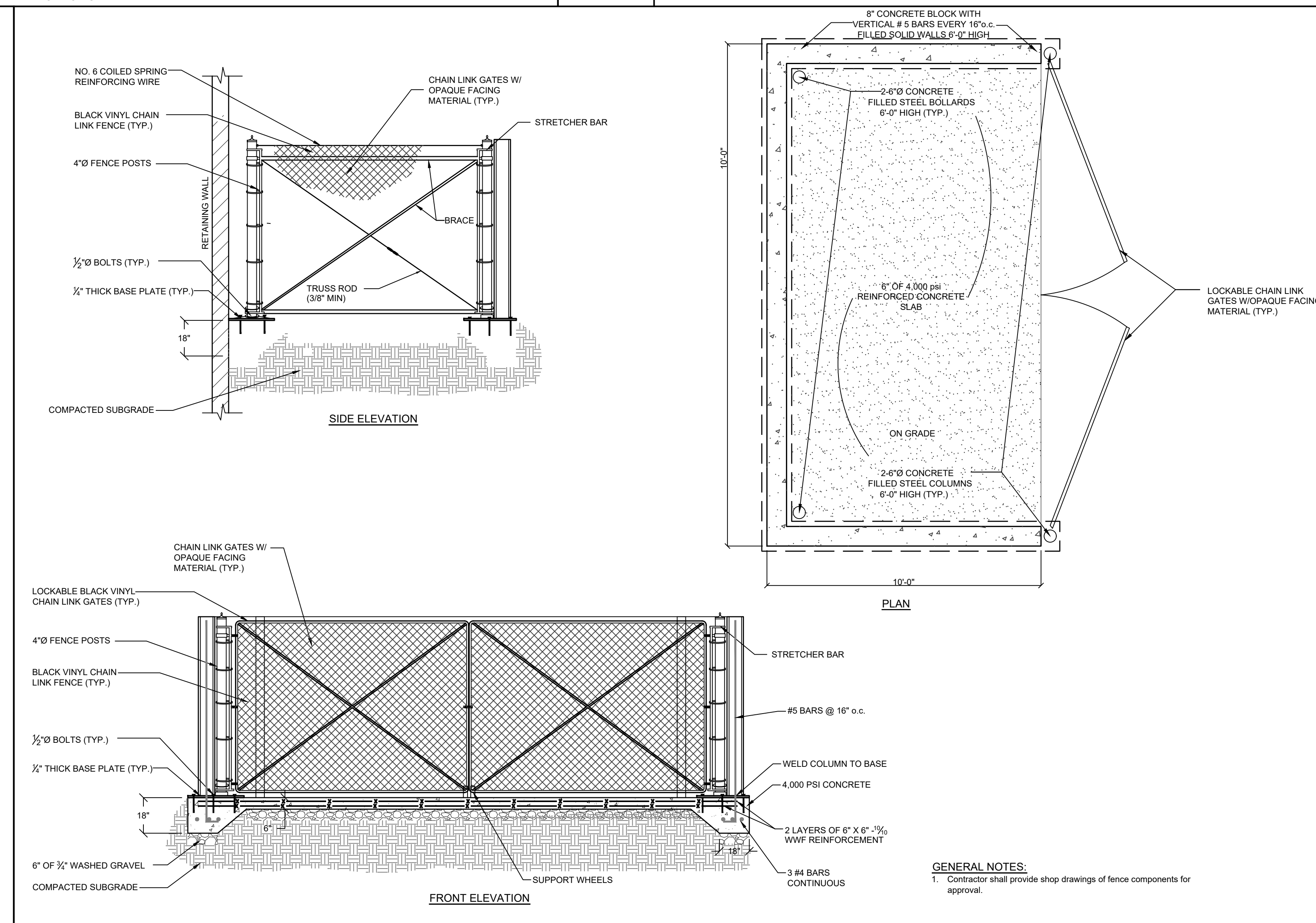


R-9 PAINTED CROSS WALK
NOT TO SCALE

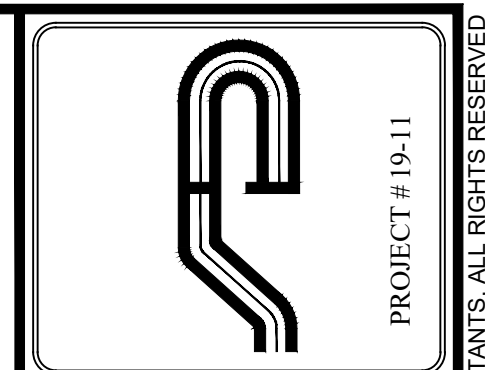
R-7 TRAFFIC SIGN DETAIL
NOT TO SCALE



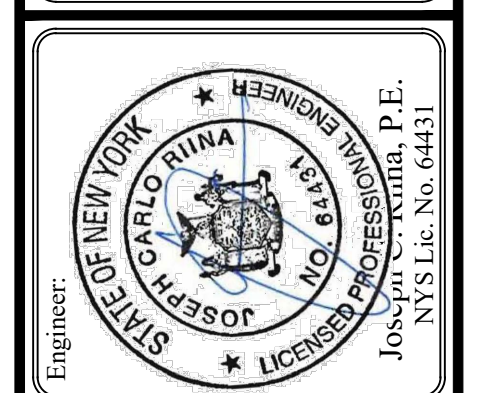
L-1 LIGHT POLE BASE DETAIL
NOT TO SCALE



F-1 TRASH ENCLOSURE
NOT TO SCALE



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Revisions:

| No. | Date | Comments |
|-----|----------|-------------|
| 1 | 11/29/22 | Plan Update |

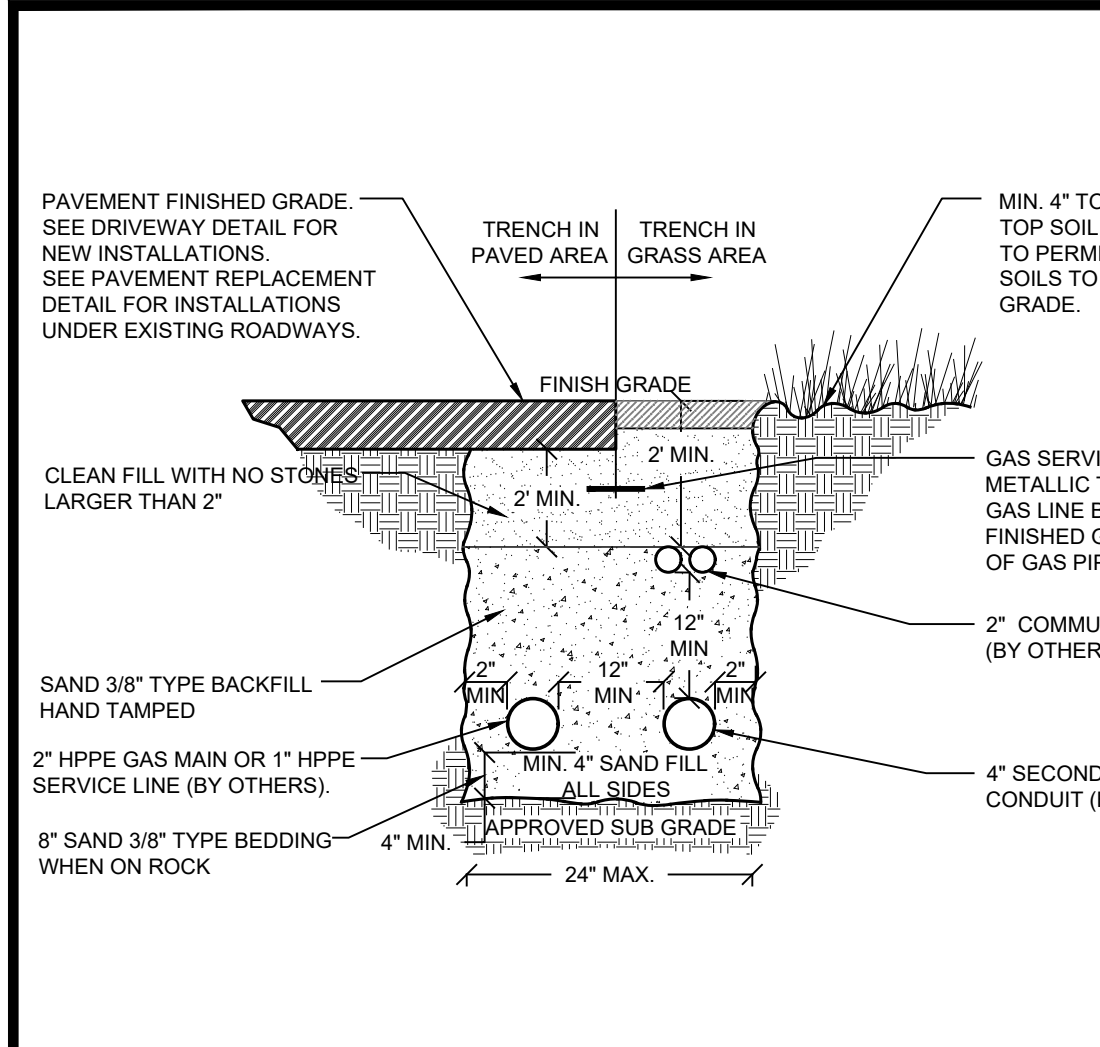
SCALE: NTS
DRAWN BY: TK
DATE: 10/21/22

SITE DETAILS
2

SITE PLAN PREPARED FOR
PAD C
CROMPOND ROAD
Westchester County, New York
Town of Yorktown

Sheet **C-503**

E:\2018\18-11 LOWES - BRUSH REALTY\2018\18-11 LOWES PAD C DETAIL S.DWG 11/29/22 2:18:52 PM

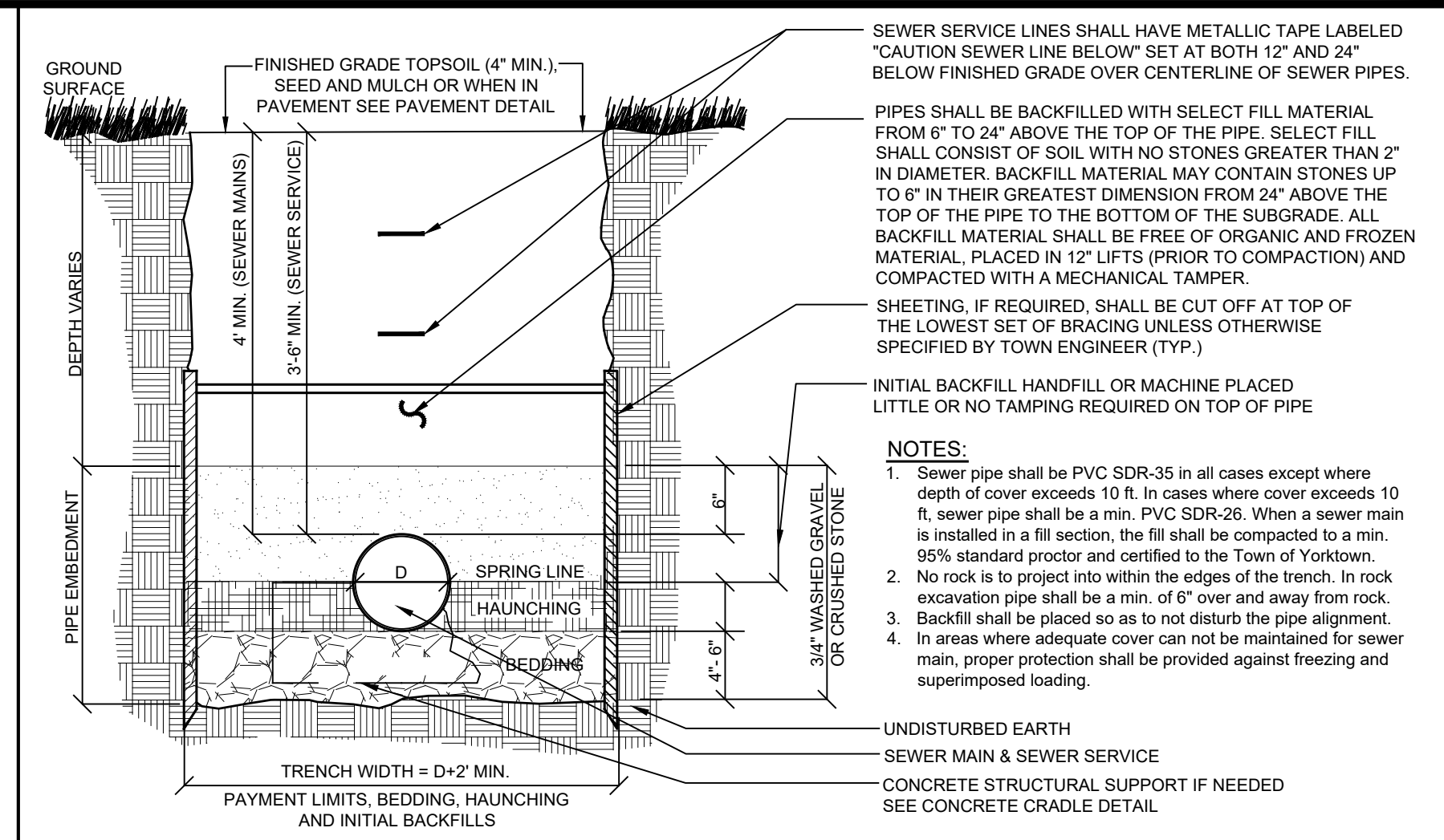
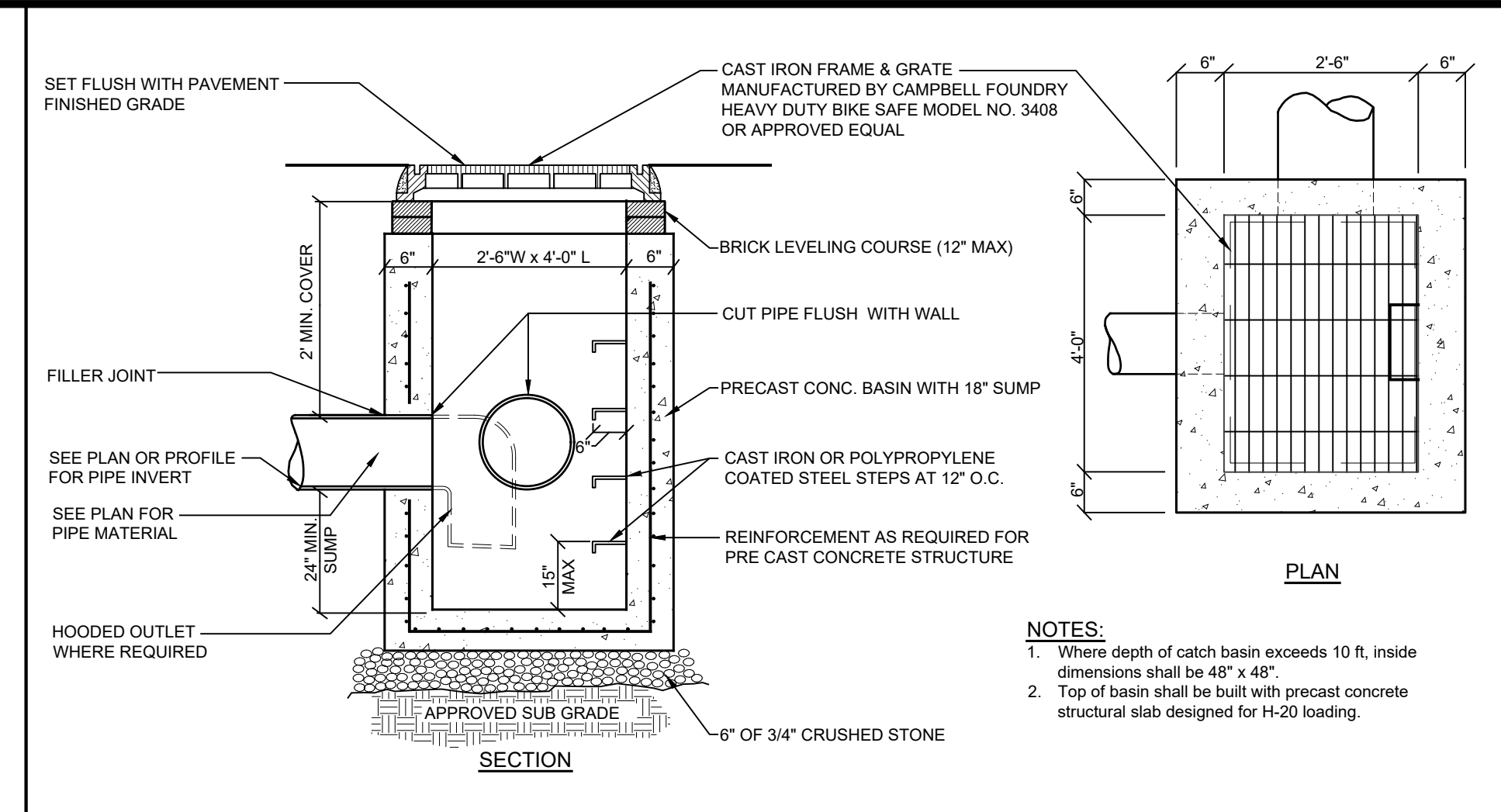


GAS SERVICE BEDDING NOTES:

- Contractor shall coordinate installation with owner. All materials and installation procedures shall meet or exceed minimal requirements of the utility owner.
- Pipe shall be laid and connected in the bedding which shall consist of:
 - Compacted existing subsoil when laid above ground water or;
 - 3/4\"/>
- If subsoil is determined to be unsuitable by the engineer, all unsuitable material shall be removed for at least 2'-6\"/>

UTILITY CONDUIT BEDDING NOTES:

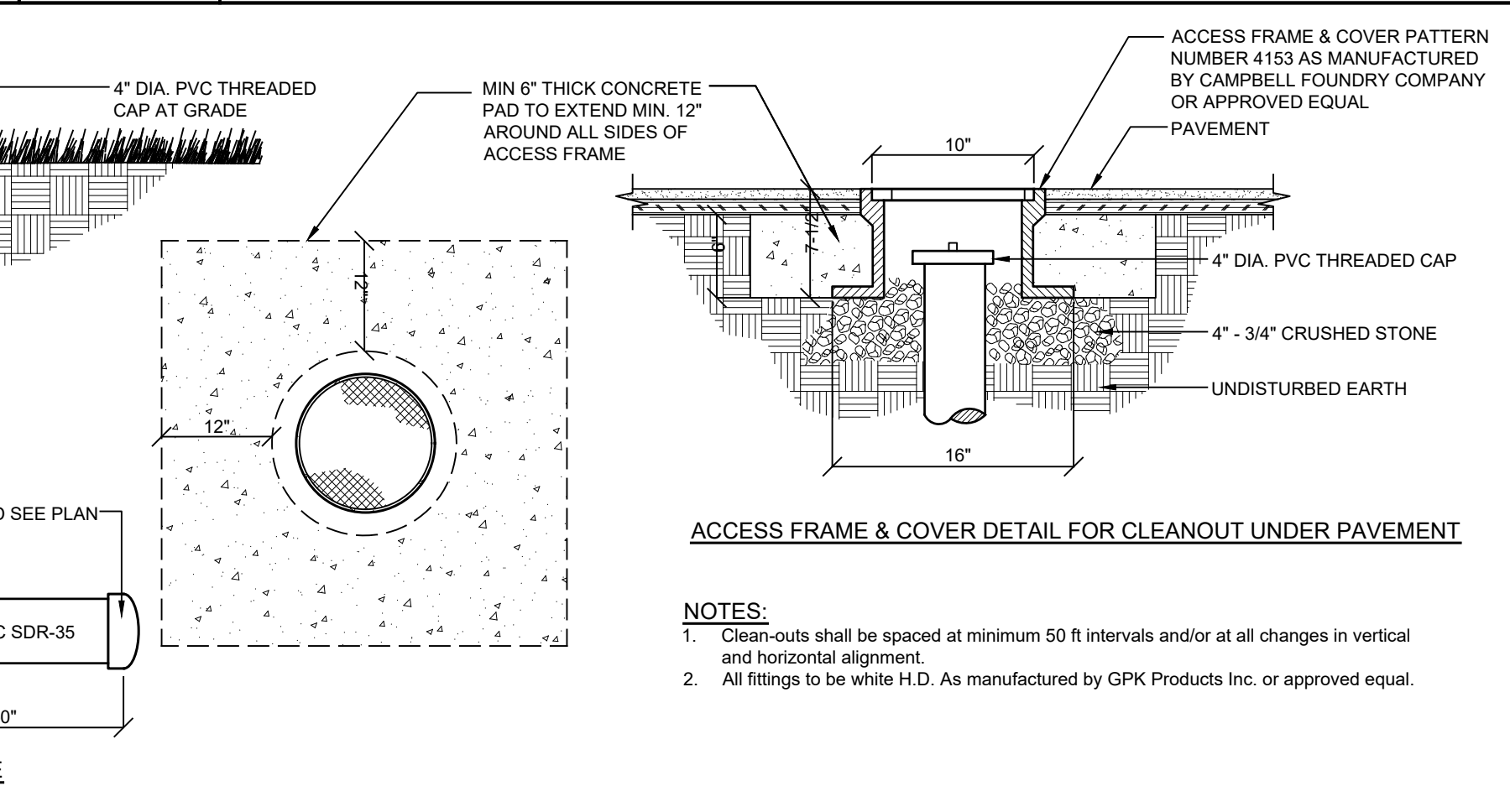
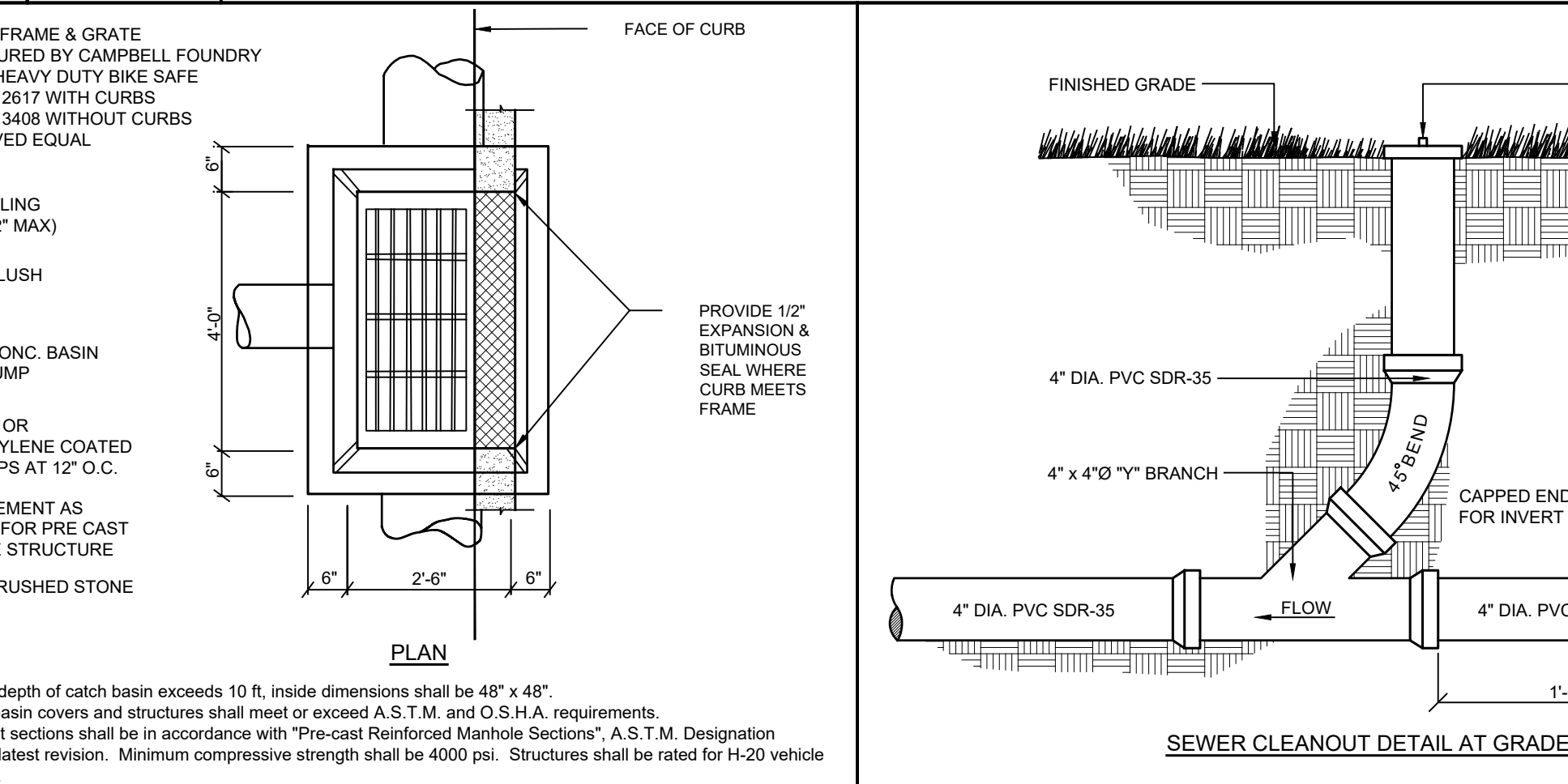
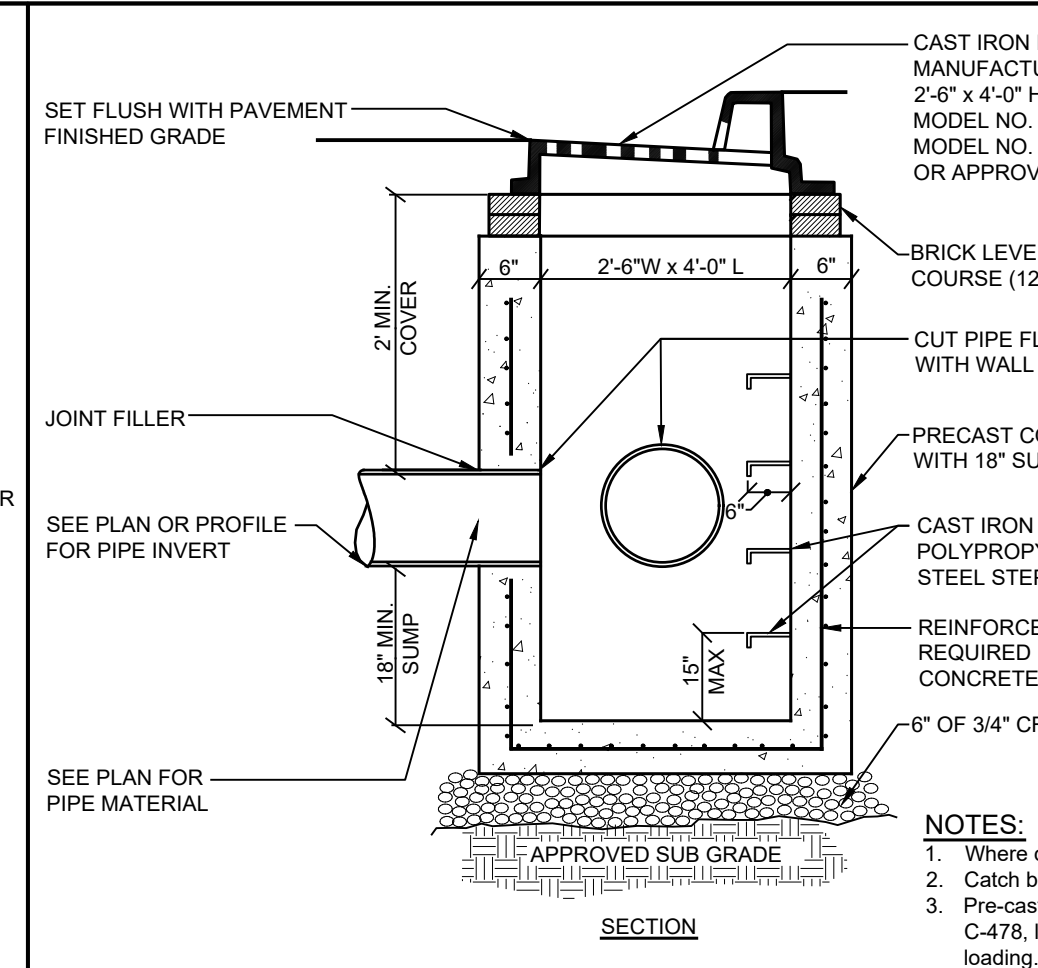
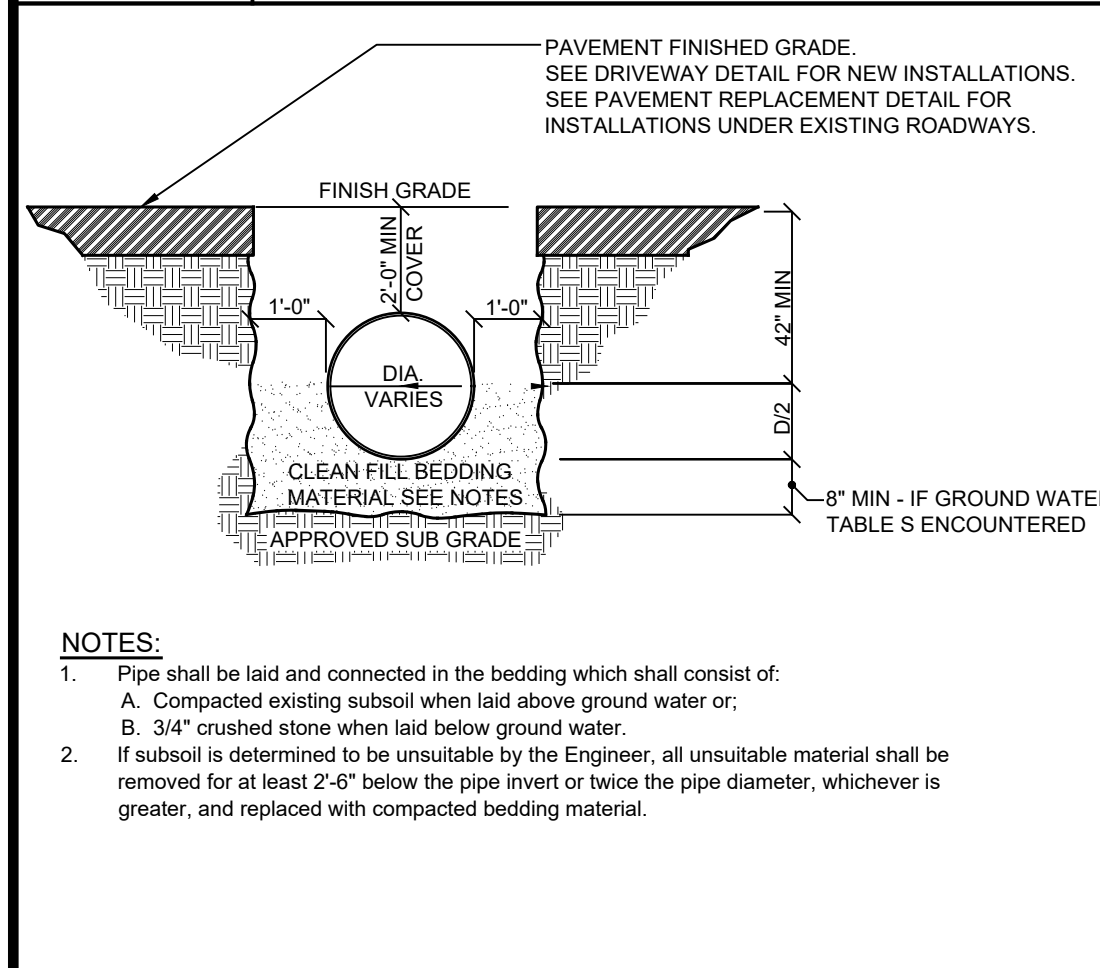
- Contractor shall coordinate installation with owner. All materials and installation procedures shall meet or exceed minimal requirements of the utility owner.
- Pipe shall be laid and connected in the bedding which shall consist of:
 - Compacted existing subsoil when laid above ground water or;
 - 3/4\"/>
- If subsoil is determined to be unsuitable by the engineer, all unsuitable material shall be removed for at least 2'-6\"/>



U-1 GAS AND UTILITY SERVICE BEDDING TRENCH DETAIL
NOT TO SCALE

D-2 PRECAST CATCH BASIN - NO CURB DETAIL
NOT TO SCALE

SS-1 SEWER MAIN / SEWER SERVICE TRENCH DETAIL
NOT TO SCALE

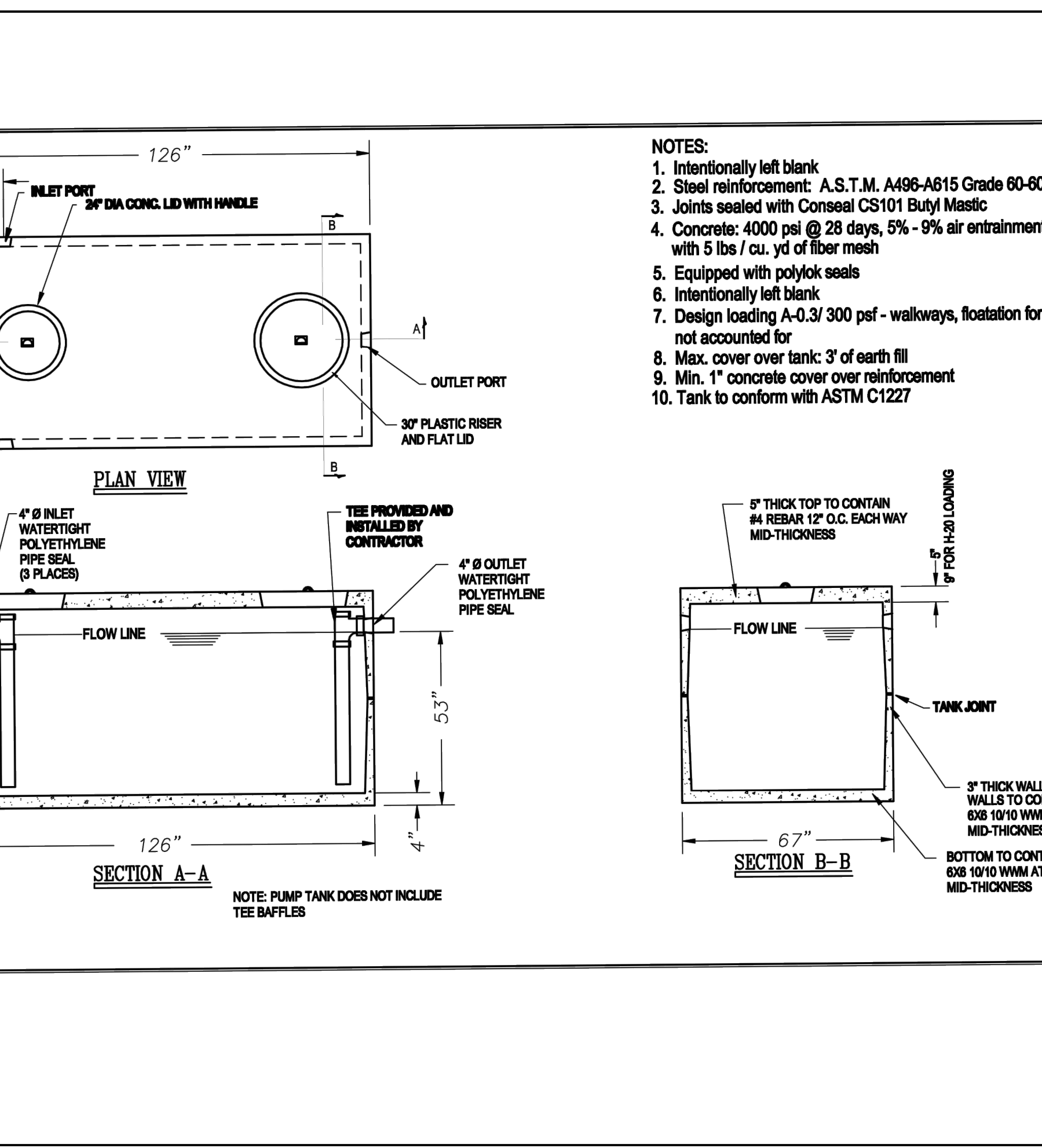
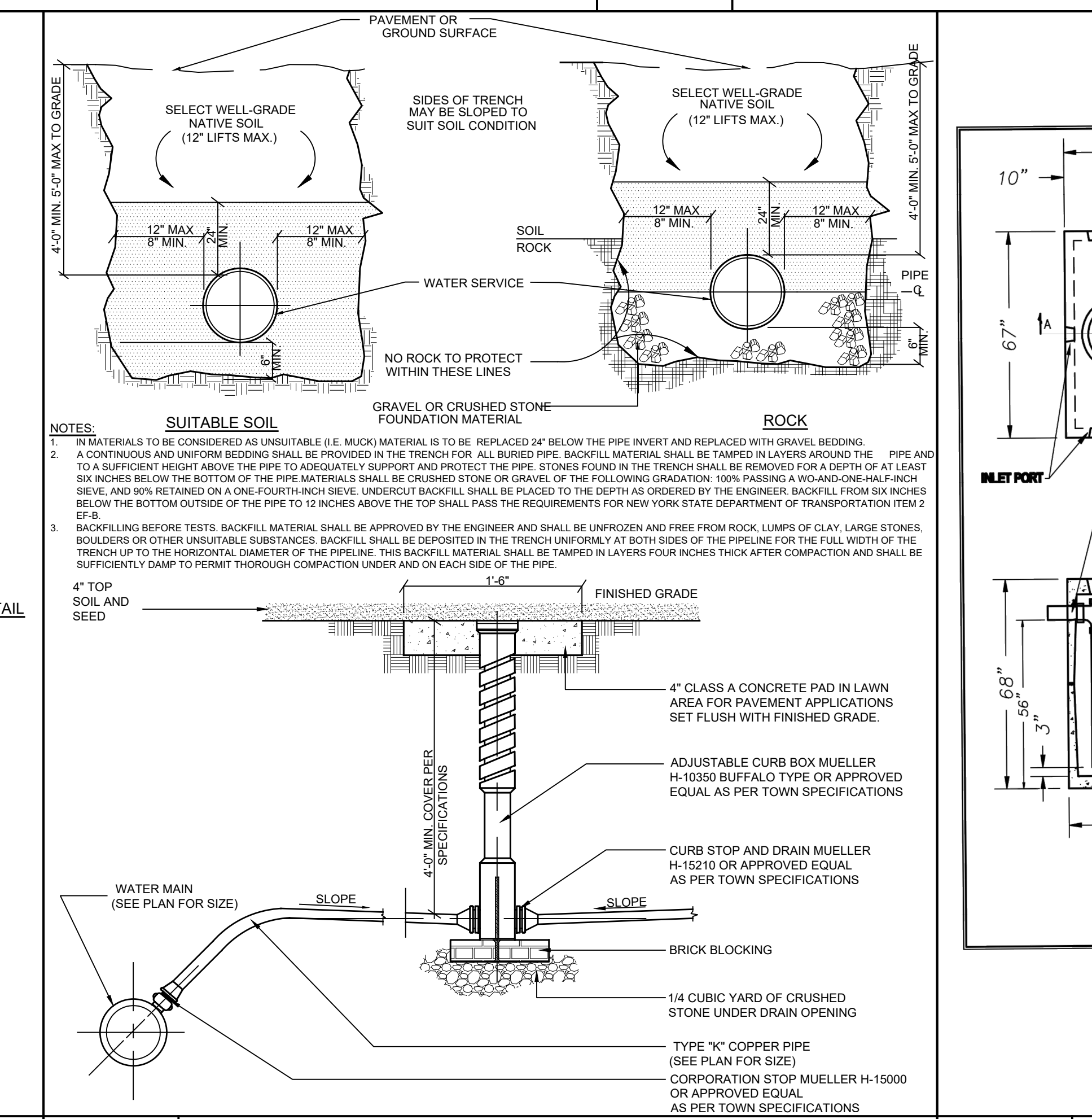
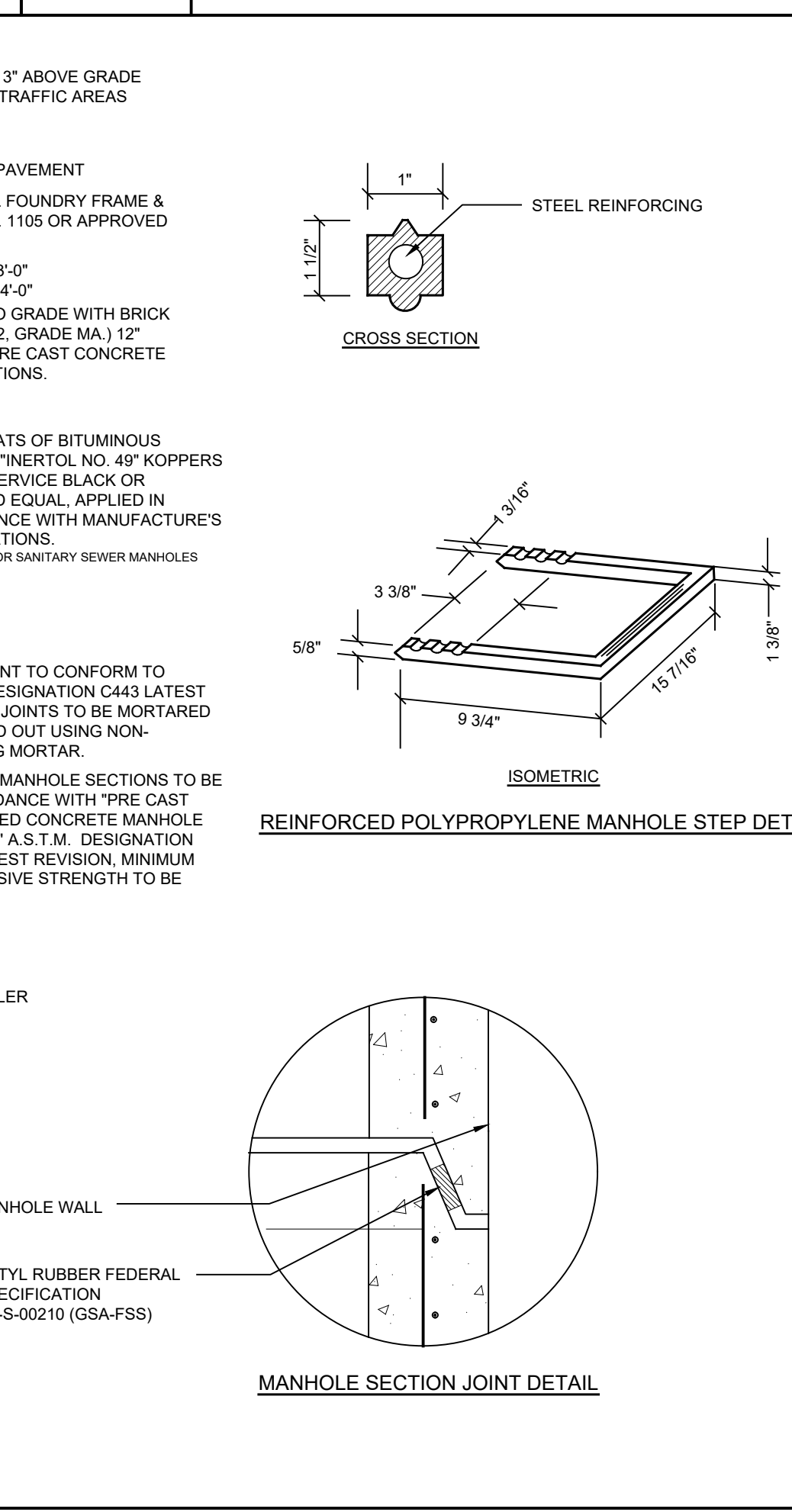
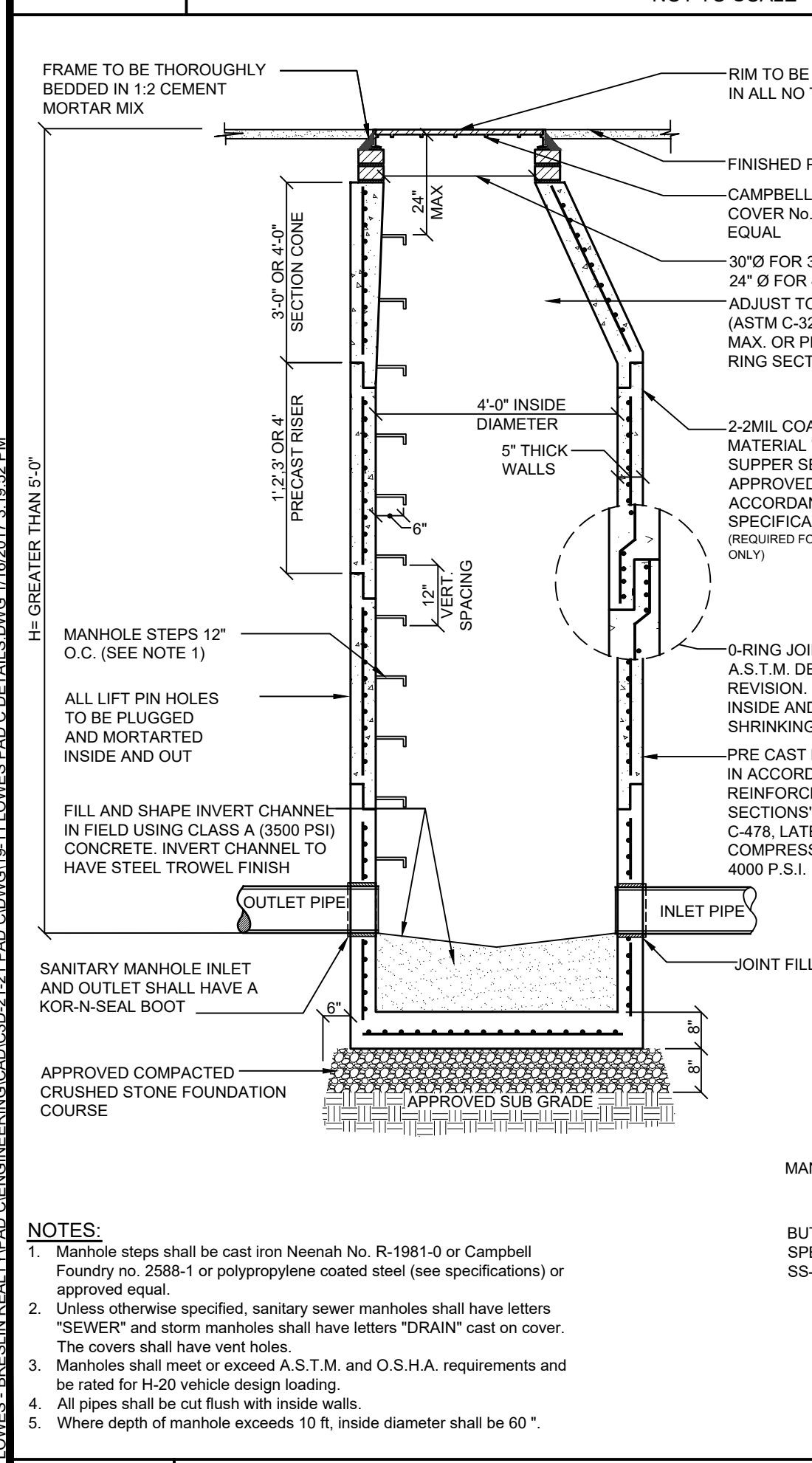


D-1 STORM PIPE BEDDING DETAIL
NOT TO SCALE

D-2 PRECAST CATCH BASIN - WITH CURB DETAIL
NOT TO SCALE

SS-2 GRAVITY SEWER LATERAL CLEAN-OUT DETAIL
NOT TO SCALE

SS-1 SEWER MAIN / SEWER SERVICE TRENCH DETAIL
NOT TO SCALE

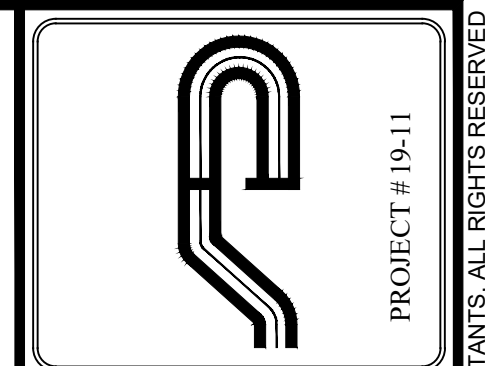


D-5 PRECAST CONCRETE SEWER / STORM DRAIN MANHOLE DETAIL
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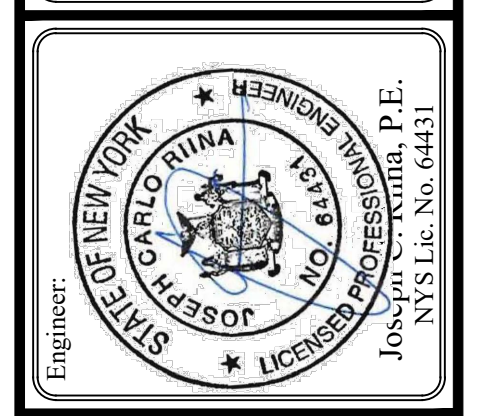
W-1 WATER SERVICE CONNECTION DETAIL
NOT TO SCALE

SS-3 GREASE TRAP DETAIL
NOT TO SCALE

SS-3 GREASE TRAP DETAIL
NOT TO SCALE



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| | 1 | 11/29/22 | | |

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DATE: 10/21/22

UTILITY DETAILS

SITE PLAN PREPARED FOR
PAD C
CROMPOD ROAD
Westchester County, New York

Sheet **C-504**

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| ITEM | QTY | ALT. QTY | PART # | DESCRIPTION | STAN. | VENDOR | NOTE |
|------|-----------|----------|-----------|--|-------|--------|------------|
| 1 | 2 | | 3053AN | 30" SINGLE MANIFOLD TEE | STAN | ADS | SEE DETAIL |
| 2 | 1 | | 3053AN | 30" TRIPLE MANIFOLD TEE | STAN | ADS | SEE DETAIL |
| 3 | 1 | | 3098ANC-1 | 30" MANIFOLD 90 DEG BEND | COMP | ADS | SEE DETAIL |
| 3-1 | 1 | | 126AN | 12" FAB STUB | STAN | ADS | COMPONENT |
| 3-2 | 1 | | 2403AN | 24" MANIFOLD INLET RISER | STAN | ADS | COMPONENT |
| 4 | 3 | | 3098AN | 30" MANIFOLD 90 DEG BEND | STAN | ADS | SEE DETAIL |
| 5 | 1 STICKS | 20 LF | STICK-1 | 30" N12 HWY STIB SOLID 20' | CUS | ADS | SEE DETAIL |
| 6 | 1 STICKS | 4 LF | STICK-2 | 30" N12 HWY STIB SOLID 20' | CUS | ADS | SEE DETAIL |
| 7 | 1 STICKS | 20 LF | STICK-3 | 30" N12 HWY STIB SOLID 20' | CUS | ADS | SEE DETAIL |
| 8 | 10 STICKS | 196 LF | 3085020IB | 30" N12 HWY STIB SOLID 20' | STAN | ADS | AS SHOWN |
| 9 | 8 STICKS | 143 LF | 3085020IB | 30" N12 HWY STIB SOLID 20' | STAN | ADS | FIELD CUT |
| 10 | 18 | | 3056AAA | 30" SPLIT COUPLER (50/PALLETT) | STAN | ADS | NOT SHOWN |
| 11 | 2 ROLLS | 662 SY | 0601TG | 601.15' X 300' (500 SY) (NTPEP SCAN) (20% OVERAGE) | STAN | ADS | SEE DETAIL |
| 12 | 3 | | 2724AG | 24" INLINE DRAIN SPEC W/GRATE | STAN | ADS | SEE DETAIL |
| 13 | 8167 CF | 303 CY | NA | EXCAVATION | NA | NA | NOT SHOWN |

NOTES

- THE SITE DESIGN ENGINEER MUST REVIEW ELEVATIONS AND IF NECESSARY ADJUST GRADING TO ENSURE THE PIPE COVER REQUIREMENTS ARE MET.
- STUB SIZES AND INVERTS TO BE VERIFIED BY THE SITE DESIGN ENGINEER PRIOR TO FABRICATION.
- ADS RISERS ARE FABRICATED 36" (900 mm) FROM TOP OF PIPE TO TOP OF RISER DUE TO SHIPPING LIMITATIONS. ADDITIONAL PIPE AND COUPLERS CAN BE USED TO EXTEND THE RISERS TO GRADE.
- LAYOUT SHOWN DOES NOT INCLUDE ADDITIONAL PIPE & MANIFOLD NEEDED FOR PROPER PIPE INSERTION INTO STRUCTURES.
- NOT FOR CONSTRUCTION:** THIS LAYOUT IS FOR DIMENSIONAL PURPOSES ONLY TO PROVE CONCEPT & THE REQUIRED VOLUME CAN BE ACHIEVED ON SITE.

ADS RETENTION/DETENTION PIPE SYSTEM SPECIFICATION

SCOPE
THIS SPECIFICATION DESCRIBES ADS RETENTION/DETENTION PIPE SYSTEMS FOR USE IN NON-PRESSURE GRAVITY-FLOW STORM WATER COLLECTION SYSTEMS UTILIZING A CONTINUOUS OUTFALL STRUCTURE.

PIPE REQUIREMENTS
ADS RETENTION/DETENTION SYSTEMS MAY UTILIZE ANY OF THE VARIOUS PIPE PRODUCTS BELOW:
 • N-12 STIB PIPE (PER AASHTO) SHALL MEET AASHTO M 294, TYPE S OR ASTM F2306
 • N-12 STIB PIPE (PER ASTM F2648) SHALL MEET ASTM F2648
 • N-12 MEGA GREEN STIB SHALL MEET ASTM F2648
 ALL PRODUCTS SHALL HAVE A SMOOTH INTERIOR AND ANNUULAR EXTERIOR CORRUGATIONS. ALL STIB PIPE PRODUCTS ARE AVAILABLE AS PERFORATED OR NON-PERFORATED. WTIB PIPE PRODUCTS ARE ONLY AVAILABLE AS NON-PERFORATED. PRODUCT-SPECIFIC PIPE SPECIFICATIONS ARE AVAILABLE IN THE DRAINAGE HANDBOOK SECTION 1 "SPECIFICATIONS".

JOINT PERFORMANCE
PLAIN END / SOIL-TIGHT (STIB):
STIB PIPE SHALL BE JOINED USING A BELL AND SPIGOT JOINT. THE BELL AND SPIGOT JOINT SHALL MEET THE SOIL-TIGHT REQUIREMENTS OF ASTM F2306 AND GASKETS SHALL MEET THE REQUIREMENTS OF ASTM F477.

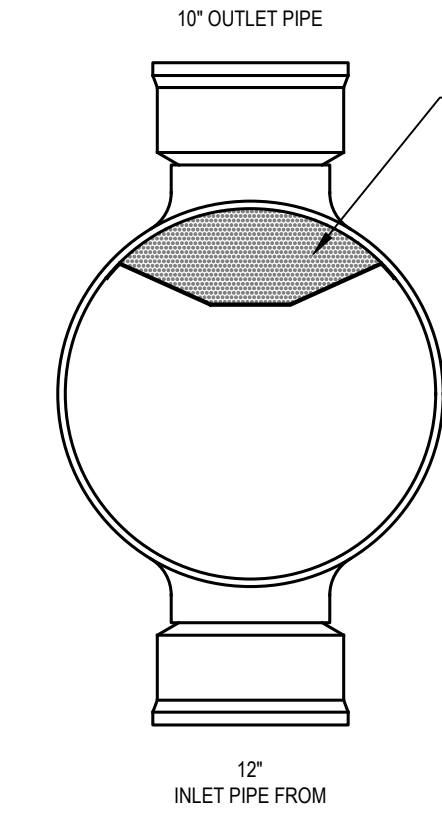
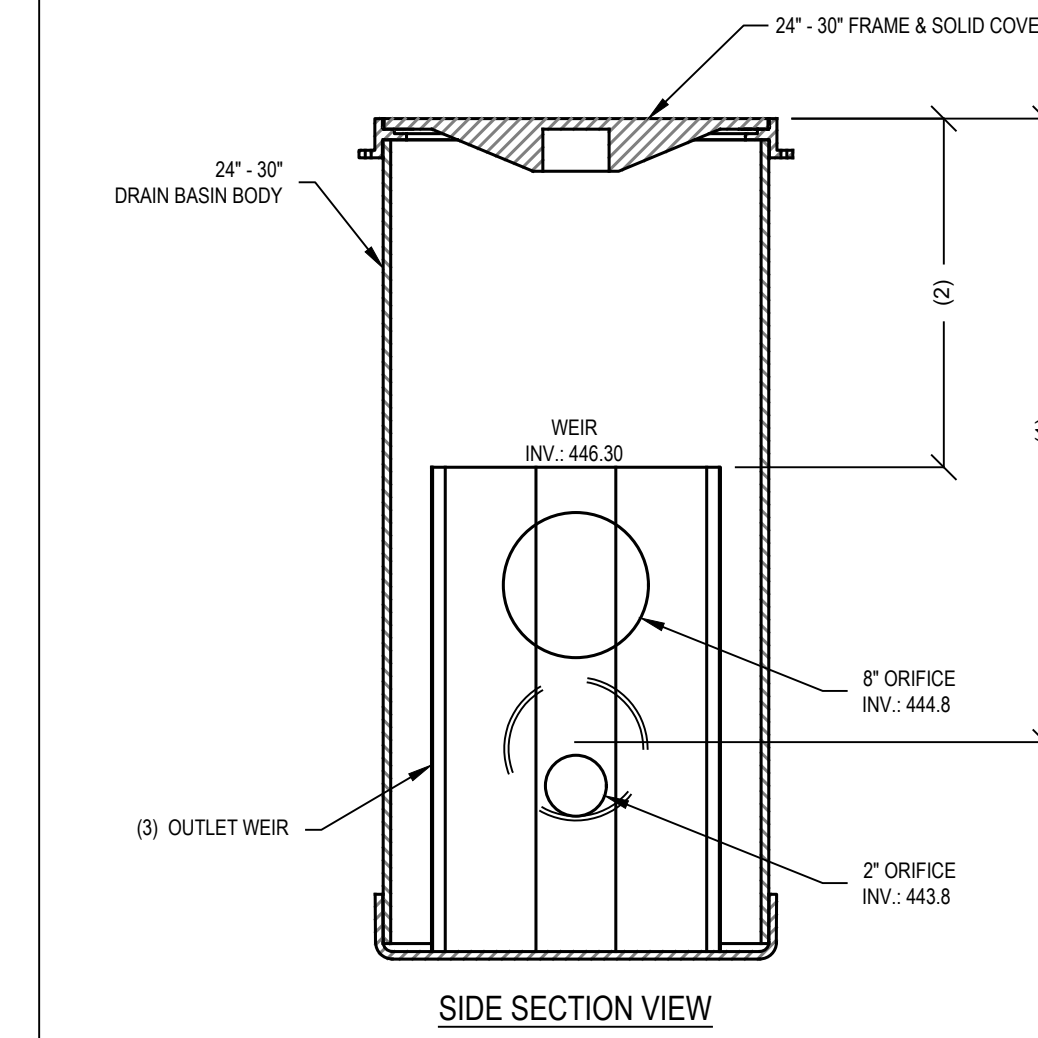
PLAIN END PIPE AND FITTINGS CONNECTIONS SHALL BE JOINED WITH COUPLING BANDS COVERING AT LEAST TWO FULL CORRUGATIONS ON EACH END OF THE PIPE. GASKETED SOIL-TIGHT COUPLING BAND CONNECTIONS SHALL INCORPORATE A CLOSED-CELL SYNTHETIC EXPANDED RUBBER GASKET MEETING THE REQUIREMENTS OF ASTM D1056 GRADE 2A2. GASKETS, WHEN APPLICABLE, SHALL BE INSTALLED BY THE PIPE MANUFACTURER.

FITTINGS
FITTINGS SHALL CONFORM TO ASTM F2306 AND MEET JOINT PERFORMANCE INDICATED ABOVE FOR FITTINGS CONNECTIONS. CUSTOM FITTINGS ARE AVAILABLE AND MAY REQUIRE SPECIAL INSTALLATION CRITERION.

INSTALLATION
INSTALLATION SHALL BE IN ACCORDANCE WITH ASTM D2321 AND ADS RECOMMENDED INSTALLATION GUIDELINES. WITH THE EXCEPTION THAT MINIMUM COVER IN NON-TRAFFIC AREAS FOR 12-60 INCH (300-1500 mm) DIAMETERS SHALL BE 1 FT (0.3 m). MINIMUM COVER IN TRAFFIC/CKED AREAS FOR 12-36 INCH (300-900 mm) DIAMETERS SHALL BE 1 FT (0.3 m) AND FOR 42-60 INCH (1050-1500 mm) DIAMETERS, THE MINIMUM COVER SHALL BE 2 FT (0.6 m). BACKFILL SHALL CONSIST OF CLASS I (COMPACTED) OR CLASS II (MINIMUM 95% SPD) MATERIAL WITH THE EXCEPTION THAT 60 INCH (1500 mm) SYSTEMS SHALL USE CLASS I MATERIAL ONLY. MINIMUM COVER HEIGHTS DO NOT ACCOUNT FOR PIPE BUOYANCY. REFER TO ADS TECHNICAL NOTE 5.05 "PIPE FLOTATION" FOR BUOYANCY DESIGN CONSIDERATIONS. MAXIMUM COVER OVER SYSTEM USING STANDARD BACKFILL IS 8 FT (2.4 m). CONTACT A REPRESENTATIVE WHEN MAXIMUM FILL HEIGHT MAY BE EXCEEDED. ADDITIONAL INSTALLATION REQUIREMENTS ARE PROVIDED IN THE DRAINAGE HANDBOOK SECTION 6 "RETENTION/DETENTION".

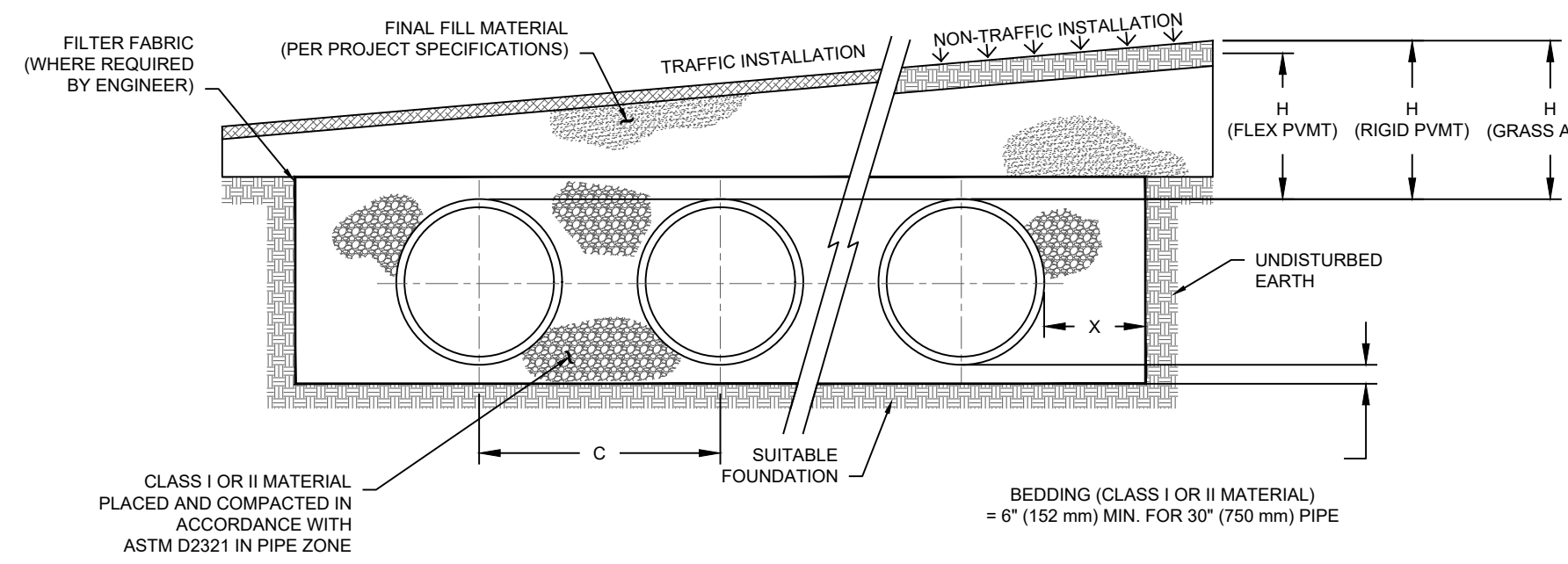
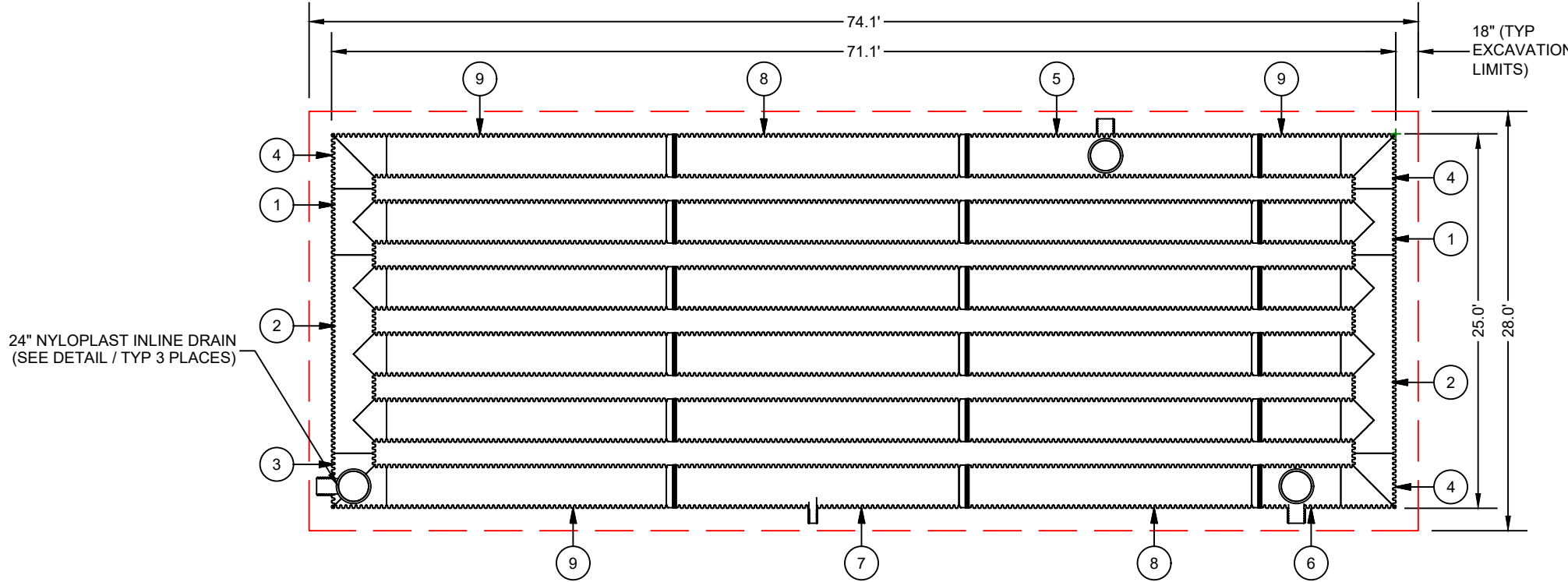
ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

DETENTION OUTLET STRUCTURE DETAIL



- INVERT ELEVATIONS & LOCATIONS TO BE DETERMINED BY ENGINEER.
- HEIGHT OF WEIR TO BE DETERMINED BY ENGINEER. WEIR HEIGHT CANNOT EXCEED 8\"/>

| | | | | | |
|---|----------|-------------|----------|----------|--|
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| DATE | 10-28-03 | PROJECT NO. | NAME | TITLE | TYPICAL DRAIN BASIN WITH OUTLET WEIR FOR STORMTECH |
| REVISED BY | CCA | DATE | 01-17-12 | DWG NO. | 7004-110-007 |
| DWG SIZE | A | SCALE | 1:16 | SHEET | 1 OF 1 |
| REV F | | | | | |



| NOMINAL DIAMETER | NOMINAL O.D. | TYPICAL SPACING "C" | TYPICAL SIDE WALL "X" | MIN. H (NON-TRAFFIC) | MIN. H (TRAFFIC) | MAX. H* |
|------------------|--------------|---------------------|-----------------------|----------------------|------------------|------------|
| 30" (750 mm) | 36" (914 mm) | 53.1" (1349 mm) | 18" (457 mm) | 12" (305 mm) | 12" (305 mm) | 8' (2.4 m) |

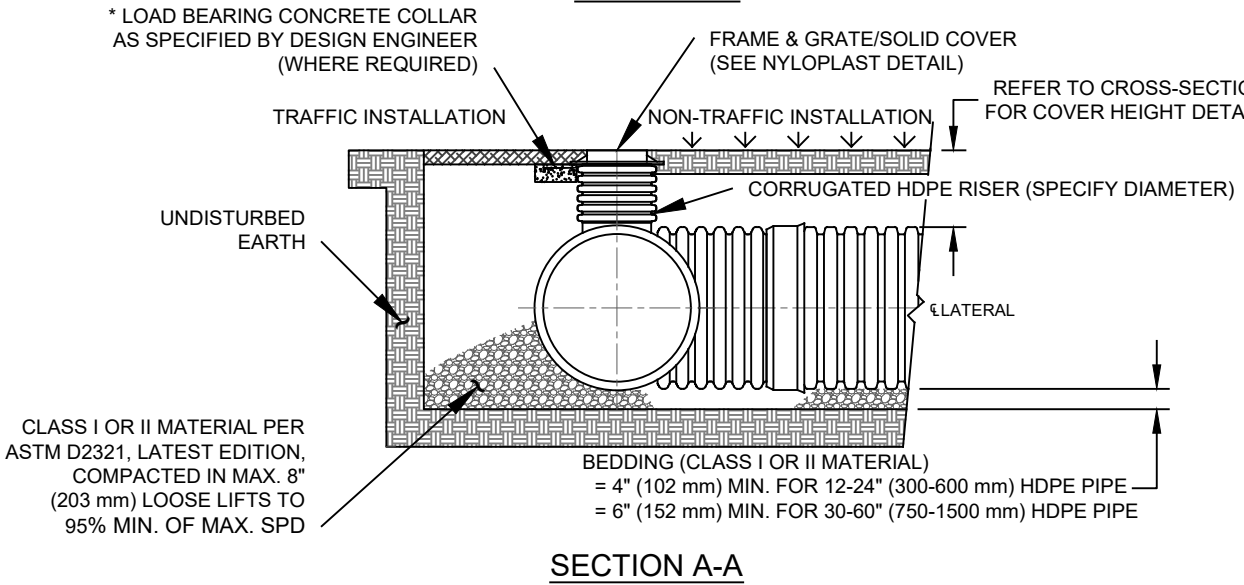
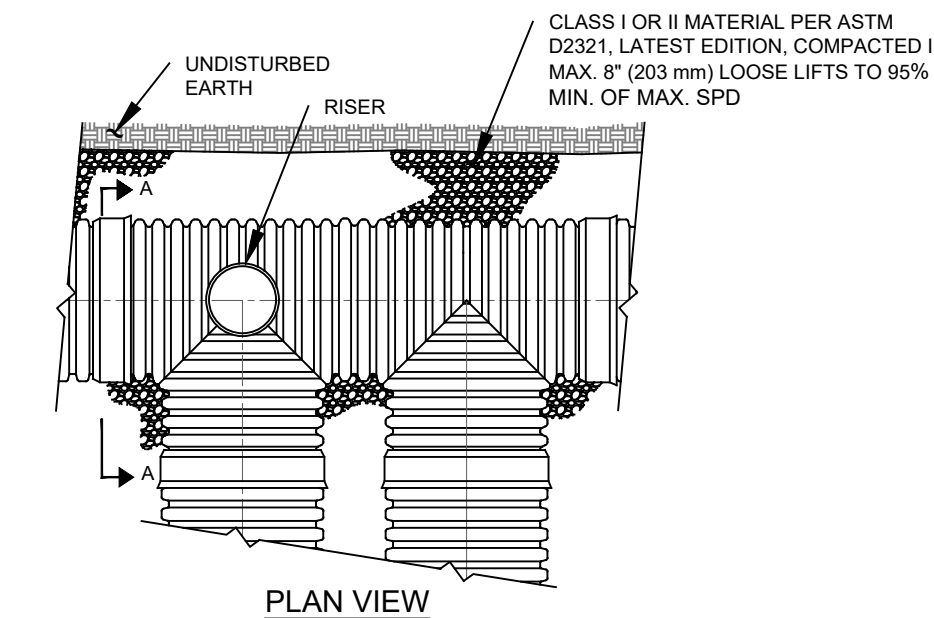
* MAXIMUM FILL HEIGHTS OVER MANIFOLD FITTINGS. CONTACT MANUFACTURER'S REPRESENTATIVE FOR INSTALLATION CONSIDERATIONS WHEN COVER EXCEEDS 8 FT (2.4 m).

NOTES

- ALL REFERENCES TO CLASS I OR II MATERIAL ARE PER ASTM D2321 "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST EDITION.
- ALL RETENTION AND DETENTION SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, LATEST EDITION AND THE MANUFACTURER'S PUBLISHED INSTALLATION GUIDELINES.
- MEASURES SHOULD BE TAKEN TO PREVENT THE MIGRATION OF NATIVE FINES INTO THE BACKFILL MATERIAL. WHEN REQUIRED, SEE ASTM D2321.
- FILTER FABRIC: A GEOTEXTILE FABRIC MAY BE USED AS SPECIFIED BY THE ENGINEER TO PREVENT THE MIGRATION OF FINES FROM THE NATIVE SOIL INTO THE SELECT BACKFILL MATERIAL.
- FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL, AS SPECIFIED BY THE ENGINEER, AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
- BEDDING: SUITABLE MATERIAL SHALL BE CLASS I OR II. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" (102 mm) FOR 4"-24" (100-600 mm), 6" (152 mm) FOR 30"-60" (750-900 mm).
- INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I OR II IN THE PIPE ZONE EXTENDING NOT LESS THAN 6" (152 mm) ABOVE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
- COVER: MINIMUM COVER OVER ALL RETENTION/DETENTION SYSTEMS IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" (305 mm) FROM TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOTATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER IS 12" (305 mm) UP TO 36" (900 mm) DIAMETER PIPE AND 24" (610 mm) OF COVER FOR 42-60" (1050-1500 mm) DIAMETER PIPE. MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT. MAXIMUM FILL HEIGHT LIMITED TO 8 FT (2.4 m) OVER FITTINGS FOR STANDARD INSTALLATIONS. CONTACT A SALES REPRESENTATIVE WHEN MAXIMUM FILL HEIGHTS EXCEED 8 FT (2.4 m) FOR INSTALLATION CONSIDERATIONS.

NOTES

- ALL ELEVATIONS, DIMENSIONS AND LOCATIONS OF RISERS, INLETS AND OUTLETS, SHALL BE VERIFIED BY THE ENGINEER PRIOR TO FABRICATION.
- IN SITUATIONS WHERE A FINE-GRAINED BACKFILL MATERIAL IS USED ADJACENT TO THE PIPE SYSTEM, AND ESPECIALLY INVOLVING GROUND WATER CONDITIONS, CONSIDERATION SHOULD BE GIVEN TO THE USE OF GASKETED PIPE JOINTS. AT THE VERY LEAST THE PIPE JOINTS SHOULD BE WRAPPED IN A SUITABLE, NON-WOVEN GEOTEXTILE FABRIC TO PREVENT INFILTRATION OF FINES INTO THE PIPE SYSTEM.
- CONSIDERATION FOR CONSTRUCTION EQUIPMENT LOADS MUST BE TAKEN INTO ACCOUNT.
- ALL PIPE DIMENSIONS ARE SUBJECT TO MANUFACTURER'S TOLERANCES.
- ALL RISERS TO BE FIELD EXTENDED OR TRIMMED TO FINAL GRADE.



* LOAD BEARING CONCRETE COLLAR SHALL BE CONSTRUCTED IN TRAFFIC AREAS SUCH THAT THE LIVE LOAD IS TRANSMITTED TO THE SURROUNDING SOIL AND NOT DIRECTLY TO THE RISER.

PROJECT # 19-11

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Civil Engineers • Land Planners
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(914) 962-4488 - Fax: (914) 962-7386
www.sitedesignconsultants.com

Stormwater Management Details

SHEET C-505

Town of Yorktown
Westchester County, New York

CROMPOD ROAD

PAD C

SHEET PREPARED FOR

DATE: 10/21/22
DRAWN BY: TK
SCALE: NTS

Revisions:

| No. | Date | Comments |
|-----|----------|-------------|
| 1 | 11/29/22 | Plan Update |

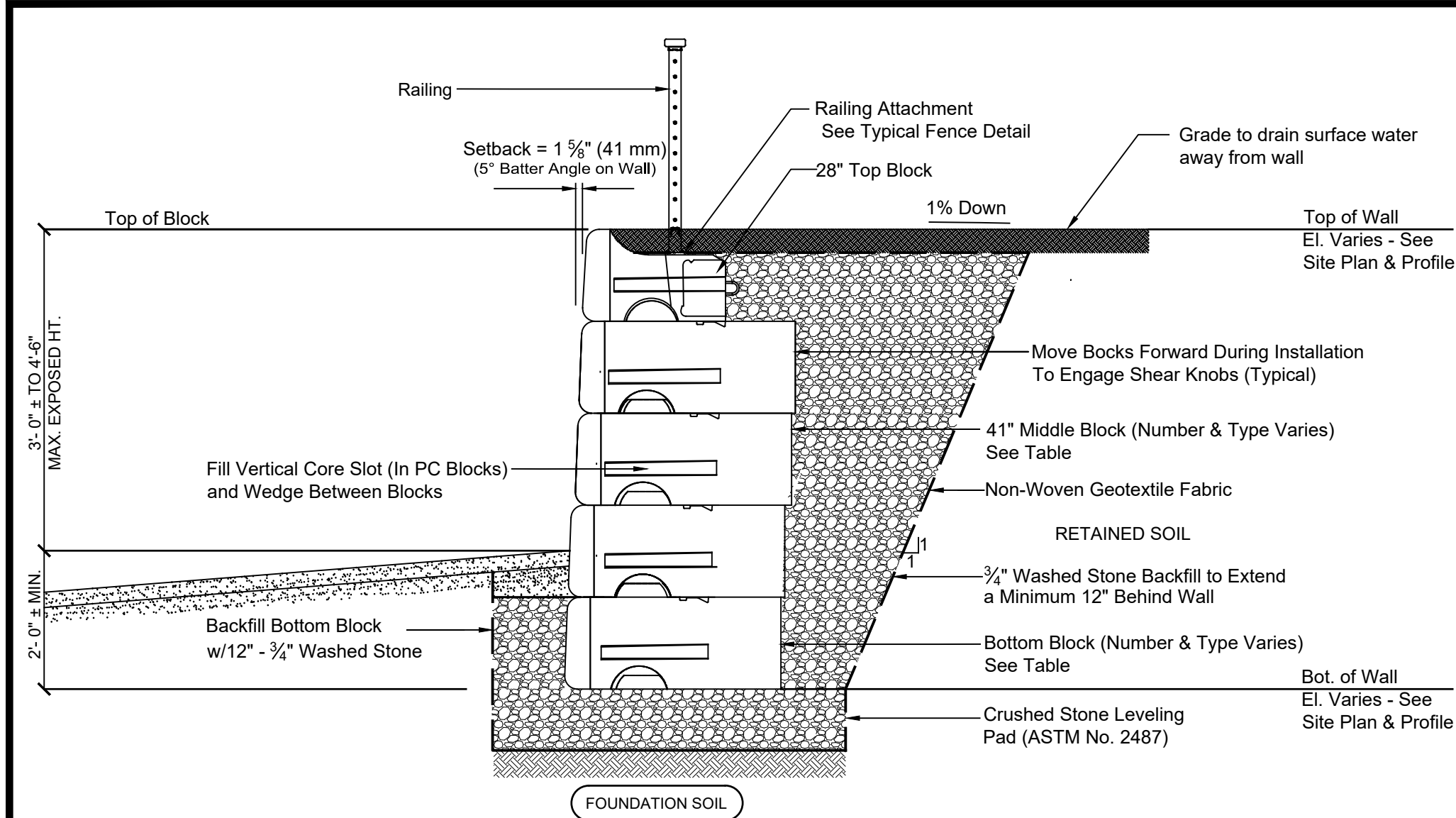
STATE OF NEW YORK
SEAL OF THE STATE ENGINEER
JOSEPH P. SCARFANO
LICENSED PROFESSIONAL ENGINEER
NYS Lic. No. 64431

NYLOPLAST
TYPICAL DRAIN BASIN WITH OUTLET WEIR FOR STORMTECH

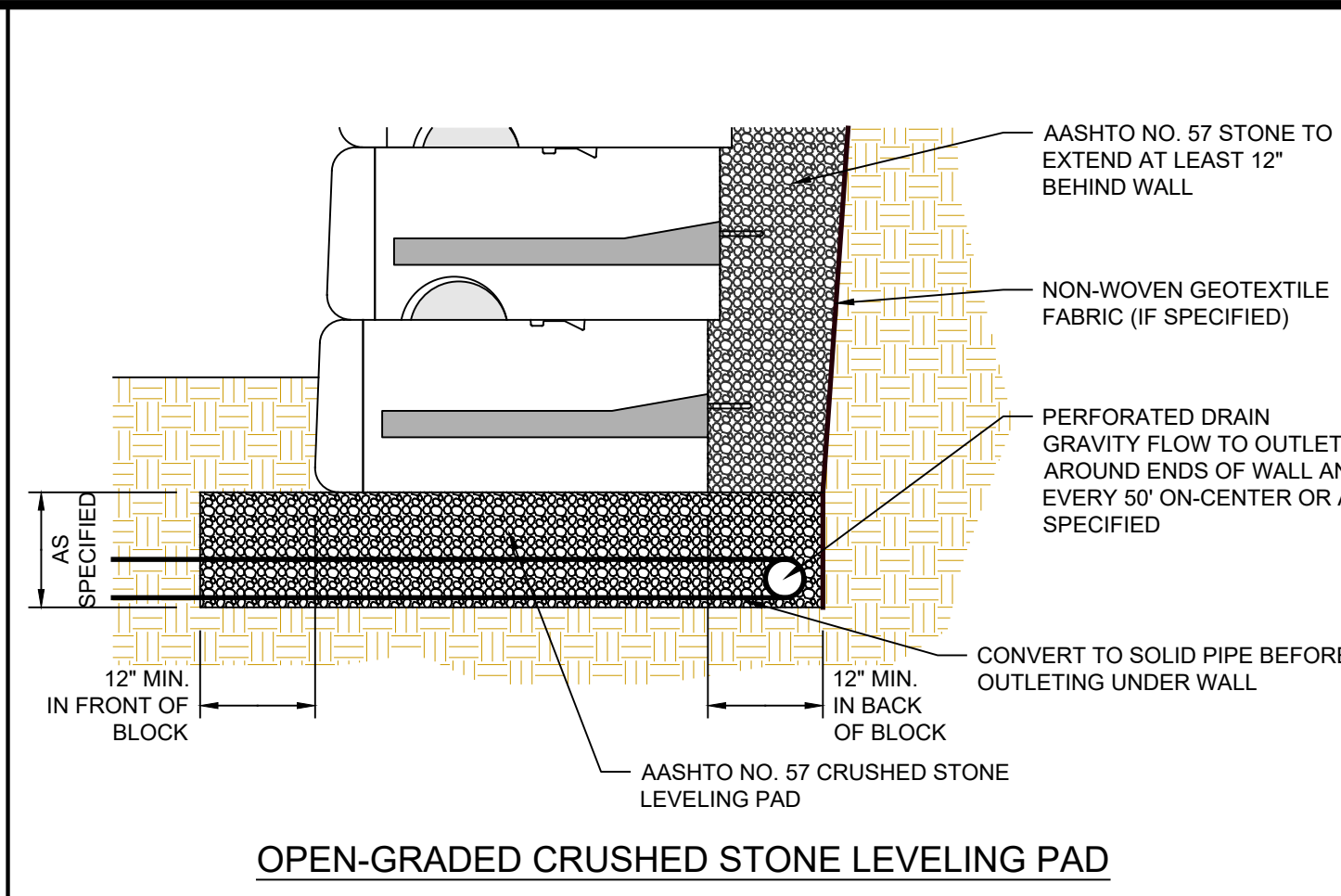
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PHN (770) 932-2443
FAX (770) 932-2488
www.nyloplast-us.com

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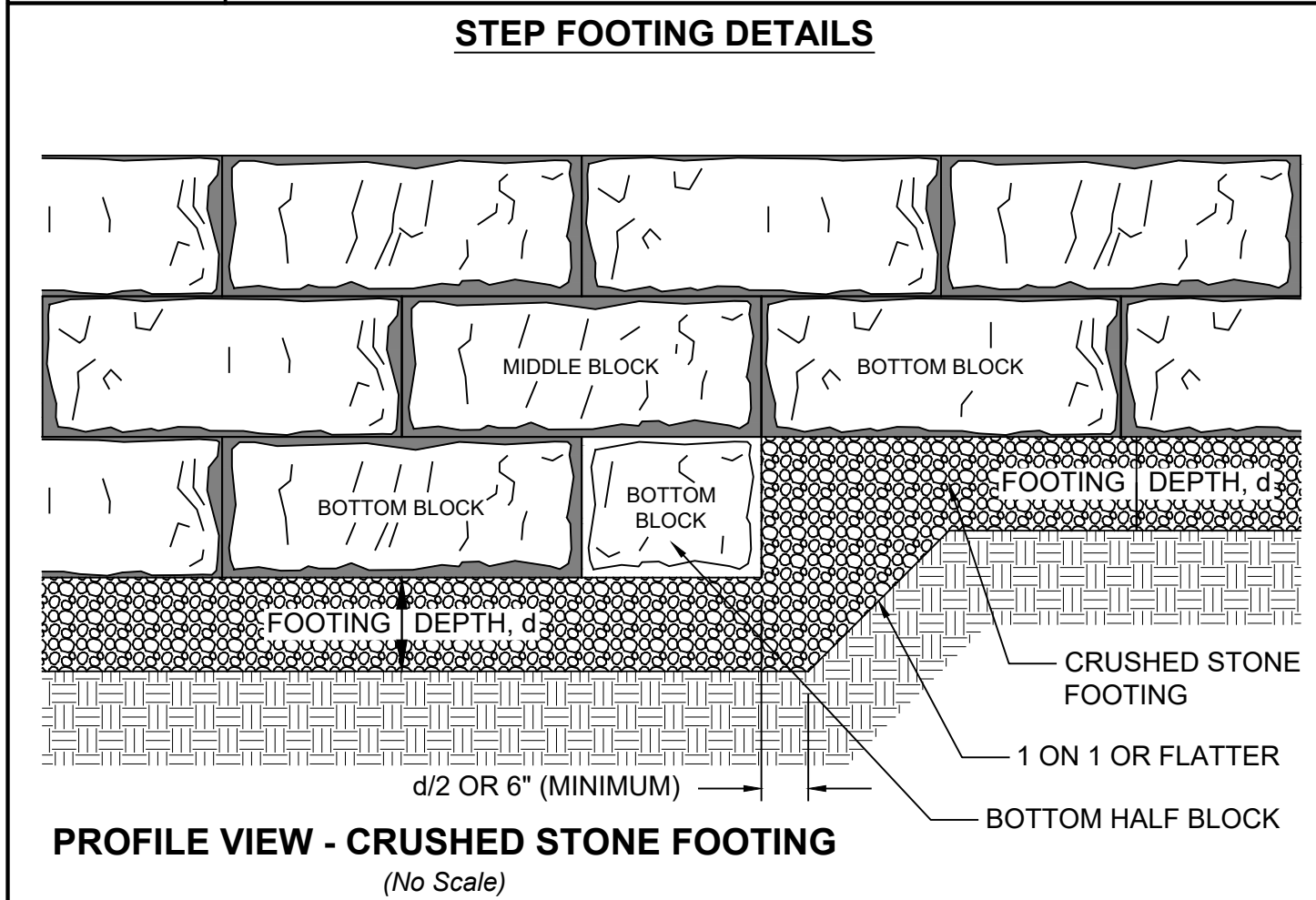
E:\2018\19-11 LOUWES - BRESLIN REALTY\PAD C ENGINEERING\CAD\CAD-24-24-19-11 LOUWES PAD C DETAIL S.DWG 11/29/22 2:19:52 PM



Note: The retaining wall as designed meets the minimum factors of safety for sliding, overturning, and settlement



ST-3 CRUSHED STONE LEVELING PAD DETAIL
NOT TO SCALE



ST-4 STEPPED CRUSHED STONE FOOTING DETAIL
NOT TO SCALE

GENERAL NOTES:

- The Engineer whose seal appears hereon has not been retained for supervision of construction, subsequently, he is not responsible for construction and therefore assumes no responsibility for construction practices, procedures, and results therefrom.
- The Engineer shall not be held responsible or held accountable for the integrity of any structures constructed or under construction prior to the approval of the plans.
- The Town Engineer's office is to be notified 24 hours before commencing site construction.
- All work is to be completed in accordance with the Town's of New Castle's Code of Practice and Specifications.
- All conditions, locations, and dimensions shall be field verified and the Engineer shall be immediately notified of any discrepancies.
- All changes made to the plans shall be approved by the Engineer and any such changes shall be filed as amendments to the original Building Permit.
- All written dimensions on the drawings shall take precedence over any scaled dimensions.
- It is the Contractor's responsibility to call in a "CODE 53" at least 2 days but no more than 10 days prior to construction for underground utility locations.
- Substructures and their encroachments below grade, if any, are not shown.
- Contractor to verify all substructures encountered during construction.
- Any proposed electric and/or telephone service lines are to be placed underground.
- The Contractor shall supervise and direct the work using his best skill and attention. He shall be solely responsible for all construction means, methods, techniques, sequences, and procedures and for coordinating all portions of the work under the contract.
- The Contractor shall be responsible to the Owner for the acts and omissions of his employees, subcontractors, and their agents and employees, and any other persons performing any of the work under a contract with the Contractor.
- The Design Engineer disclaims any liability for damage or loss incurred during or after construction.
- The contractor shall be responsible for obtaining all necessary permits for any blasting if required.

GENERAL SEGMENTAL RETAINING WALL NOTES:

- The Contractor shall inspect the site prior to starting the project and verify all existing conditions. Any discrepancies from what is shown on the plans to actual field conditions shall be reported to the Engineer immediately and prior to commencing the work.
- All work shall conform to all applicable Federal, State and Village of Mamaroneck codes, rules and regulations. The Contractor shall be responsible for acquiring all permits and paying all filing fees necessary for the proposed work.
- The Contractor shall excavate to virgin grade. The Contractor shall not place footings on any fill material.
- Walls shall not be constructed on wet or frozen ground.
- Excavation in general shall conform to the lines and grades shown on the Contract Drawings.
- Top and bottom wall elevations are provided to indicate top of wall elevation and finished grade elevation respectively at front face of wall. Additional wall height shall be required as necessary to provide for proper buried wall depth and footings.
- To ensure a proper bearing surface, the wall shall be constructed on natural in-situ soil with a minimum allowable bearing capacity of 2 TSF. The Contractor shall strip all top soil. The area shall then be compacted using suitable compaction equipment. A minimum of 3 passes shall be made.
- If the Contractor encounters any wet area of soil while excavating or during construction of wall, he shall notify the Engineer immediately. Replacement of unsuitable soils may be required as directed by the Engineer.
- Fill material such as concrete rubble, asphalt, boulders, pipes, etc. shall not be used as backfill material behind the wall.
- Soils used as backfill shall consist of clean dry soil. The material shall be granular and free of organic or other deleterious material. In general the soil shall be non-plastic with a plasticity index less than 5 and shall conform to the AASHTO Soil Classification System for an "A-1-a" soil. However the maximum size shall be 6". In general all fill shall be approved by the Engineer prior to its use. Wet material or unsuitable material should not be used.
- Earth backfilling of walls shall be placed in one (1) foot lifts, prior to compaction and compacted to 95% standard proctor with a mechanical tamper.
- The Contractor shall not use large or heavy construction equipment within 5 ft of the retaining walls or new foundation walls. Hand operated compacting equipment shall be used within 5 ft of the wall face.
- The Contractor shall be responsible for adequately bracing and protecting the wall work during construction against damage, collapse, distortions and misalignments in accordance with all applicable codes, standards and good practices.
- The Contractor shall be responsible for maintaining safe cut and fill slopes in front of and behind the wall throughout construction.
- The Contractor shall be responsible for protecting all persons during construction from harm in accordance with all applicable codes, standards and good practices.
- The Contractor shall be responsible for providing convenient access and proper facilities for the inspection of all parts of the work.
- The Engineer shall have the right to order the removal of defected work and/or material and unapproved work and/or material. The cost of removal and replacement shall be borne by the Contractor.
- The Contractor shall be responsible for all damage to existing properties as a result of his work or workmanship. The Contractor shall restore to existing condition any property damaged as a result of his work or workmanship at no additional cost to the owner.
- Alternate wall designs must be sealed by a New York State Licensed Professional Engineer. The minimum Factors of Safety for sliding and overturning shall be 2.0.

SUGGESTED CONSTRUCTION SEQUENCE

Use of erosion and sediment control structures and practices are important to maintaining site stability under runoff and during daily construction activities. Construction sequence should be staged with erosion and sediment controls as follows with all controls in place and implemented prior to respective infrastructure construction. As construction proceeds, the controls should be monitored, maintained and replaced as needed. Additional controls may be required as needed to address unforeseen situations and shall be as determined by the Engineer or as directed by the Town of New Castle. Refer to construction drawings for all plans and details which relate to construction sequence. This suggested sequence should be followed in conjunction with all Plans, Notes, and the approved Stormwater Management Plan.

Prior to the commencement of work, the Owner and General Contractor shall read and understand the sequence for construction. The sequence shall be discussed at the time of the pre-construction meeting.

CONSTRUCTION SEQUENCE:

- A licensed surveyor must define infrastructure locations, limits of disturbance, and grades in the field prior to start of any construction.
- Install all temporary erosion control measures as shown on the erosion and sediment control plan for the project including but not limited to silt fencing, inlet protection and temporary sediment traps. The plan includes the order in which the project will be constructed. These plans must be followed to insure proper implementation of the Erosion and Sediment Control Plan (E&SC) and Stormwater Pollution Prevention Plan (SWPPP).
- Create an access point to the project at the location shown off of Hitting Post Lane. The anti-tracking measures then shall be installed. Cut and clear trees within the work area as necessary for the area to be disturbed. If all areas are to be cleared, stumps shall only be removed as required for the immediate phase of construction. Timbered trees, wood chips, and stumps shall be temporarily stored in the staging area before being removed off-site. Wood chips may be used for mulch to stabilize disturbed areas. Wood chip mulch shall be applied at a minimum rate of 500 lbs. per 1000 sf (2" thick).
- Grub and remove stumps in the immediate work area and remove off-site or chip.
- Begin preparation for construction of all retaining walls. Areas in which final grade is achieved shall be immediately stabilized with permanent vegetative cover. Slopes less than 3:1 can be stabilized with seeding, and straw mulch or wood chip mulch. Slopes of 3:1 or greater shall receive erosion blankets. Areas which are to remain undisturbed for more than 14 days shall be stabilized with temporary seeding or mulch.
- Stake-out the location of utilities and utility structures. Begin the installation of drainage and septic. Begin excavation and install piping. Backfill as installation is complete and stabilize the area. If trenches are to be left open, place excavated material on the up-slope sides of the trench and protect and stabilize if it is to remain open for an extended period of 7 days or more.
- During the final phase of installation, finish grade, topsoil, rake, and seed all areas as required.
- Once approval is obtained by the Erosion and Sediment Control Monitor, Engineer or Town Engineer, all temporary erosion measures may be removed.

TOWN NOTES:

- Prior to the issuance of a building permit, the entire clearing/grading limits shall be field staked as per the approved site plan and inspected by Steve Coleman Environmental Coordinator at 914-238-1429.
 - Clearing and grading limit lines shall be clearly delineated in the field throughout the construction period and no encroachment beyond these limits by workers or machinery shall be permitted.
 - All work regarding the footing/foundation for all site related retaining walls shall remain accessible and exposed until inspected by the Building/Engineering Division. The Building/Engineering Division shall be notified at least 48 hours in advance in order to schedule a footing/foundation inspection. Contact the Civil Engineering Technician at 914-238-1429.
 - For each truck delivering fill to the above-mentioned site, a Manifest shall be submitted and signed by the owner and/or engineer indicating the following:
 - Deliver date
 - Origin of fill
 - Type of fill
 - Certification by a New York State Licensed Professional Engineer that the fill delivered is in compliance with paragraph 360-7.1(b)(1) of 6 NYCRR Part 360 - Solid Waste Management
- Note: If the fill material, as determined by the Town of New Castle, is considered to be a non-exempt material as per paragraph 360-7.1(b)(1) of 6 NYCRR Part 360 - Solid Waste Management than the property owner and/or engineer may be required to perform and/or submit additional information.
- The owner of the property acknowledges that the Town of New Castle and other agencies having jurisdiction shall have the right to enter the property at reasonable times and in a reasonable manner for purposes of inspection.
 - Upon Completion of Construction, submit an approved Westchester County Department of Health's Certificate of Construction Compliance form
 - At completion, the applicant's architect/engineer shall submit a "Certificate of Construction Compliance" and "As-Built Section" certifying that the retaining wall as constructed meets all factors of safety for sliding, overturning and settlement in accordance to the approved plans on file with the Building and Engineering Department.
 - Each contractor who will be involved in a land development activity must have proof that he/she has received training and/or certification in proper erosion and sedimentation control practices.
 - Upon completion of the project an As-Built Site Plan will be submitted showing all improvements including the location septic structures and associated piping, retaining wall, drainage piping & riprap beds.
 - Grading and site work shall comply with New Castle Town Code Chapter 108: Steep Slope Protection.

TABLE I - TYPICAL WALL CHART

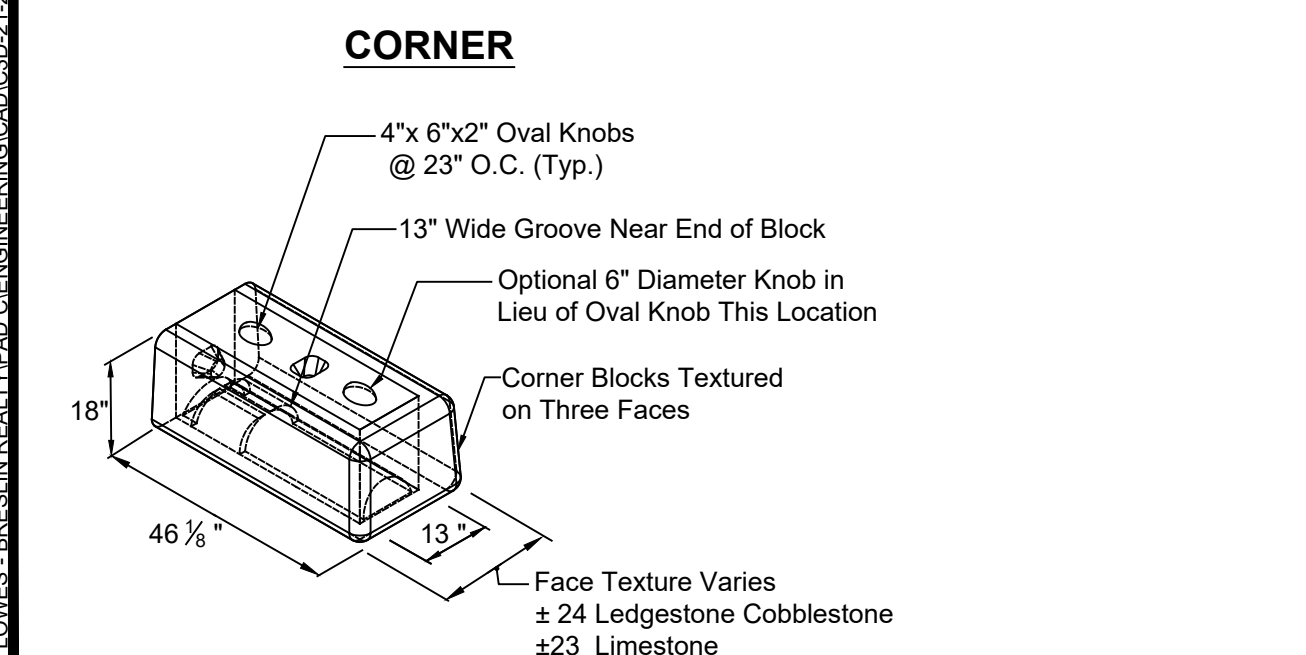
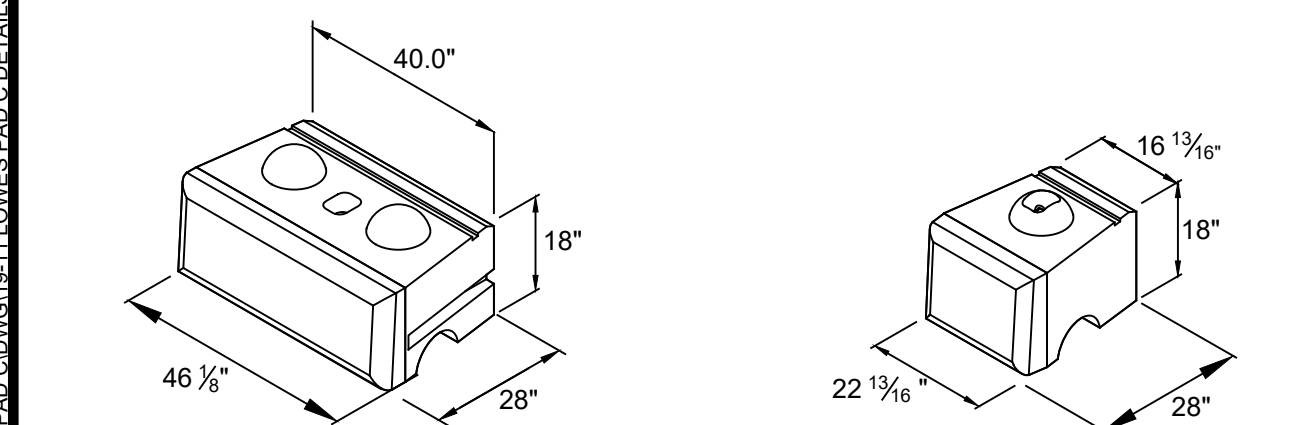
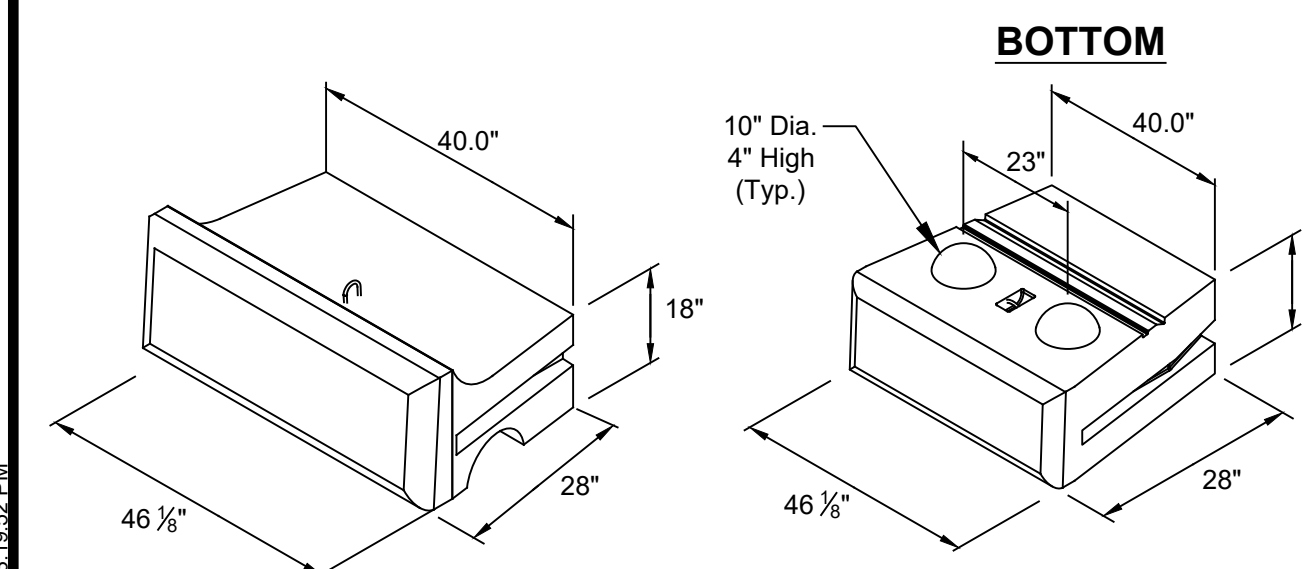
| WALL HEIGHT | NO. COURSES | MINIMUM BURY DEPTH | LEVELING PAD DEPTH | WIDTH OF LEVELING PAD | NUMBER & TYPE OF BLOCK COURSES | | | | |
|-------------|-------------|--------------------|--------------------|-----------------------|--------------------------------|-------------------|-------------------|----------------|--|
| | | | | | 60" BOTTOM BLOCKS | 41" MIDDLE BLOCKS | 28" MIDDLE BLOCKS | 28" TOP BLOCKS | |
| 2.0' | 3 | 1.5' | 1.0' | 3'-9" | 0 | 0 | 2 | 1 | |
| 3.0' | 3 | 1.5' | 1.0' | 3'-9" | 0 | 0 | 2 | 1 | |
| 4.0' | 4 | 1.5' | 1.0' | 3'-9" | 0 | 0 | 3 | 1 | |
| 5.0' | 4 | 1.5' | 1.0' | 4'-10" | 0 | 1 | 2 | 1 | |
| 6.0' | 5 | 1.5' | 1.0' | 4'-10" | 0 | 1 | 3 | 1 | |
| 7.0' | 6 | 1.5' | 1.33' | 4'-10" | 0 | 1 | 3 | 1 | |
| 8.0' | 7 | 1.5' | 1.33' | 5'-4" | 0 | 1 | 4 | 1 | |
| 9.0' | 7 | 1.5' | 1.33' | 5'-4" | 0 | 1 | 4 | 1 | |
| 10.0' | 8 | 1.5' | 1.33' | 7'-0" | 2 | 0 | 3 | 1 | |
| 12.0' | 9 | 1.5' | 1.33' | 7'-0" | 3 | 0 | 2 | 1 | |

NOTES

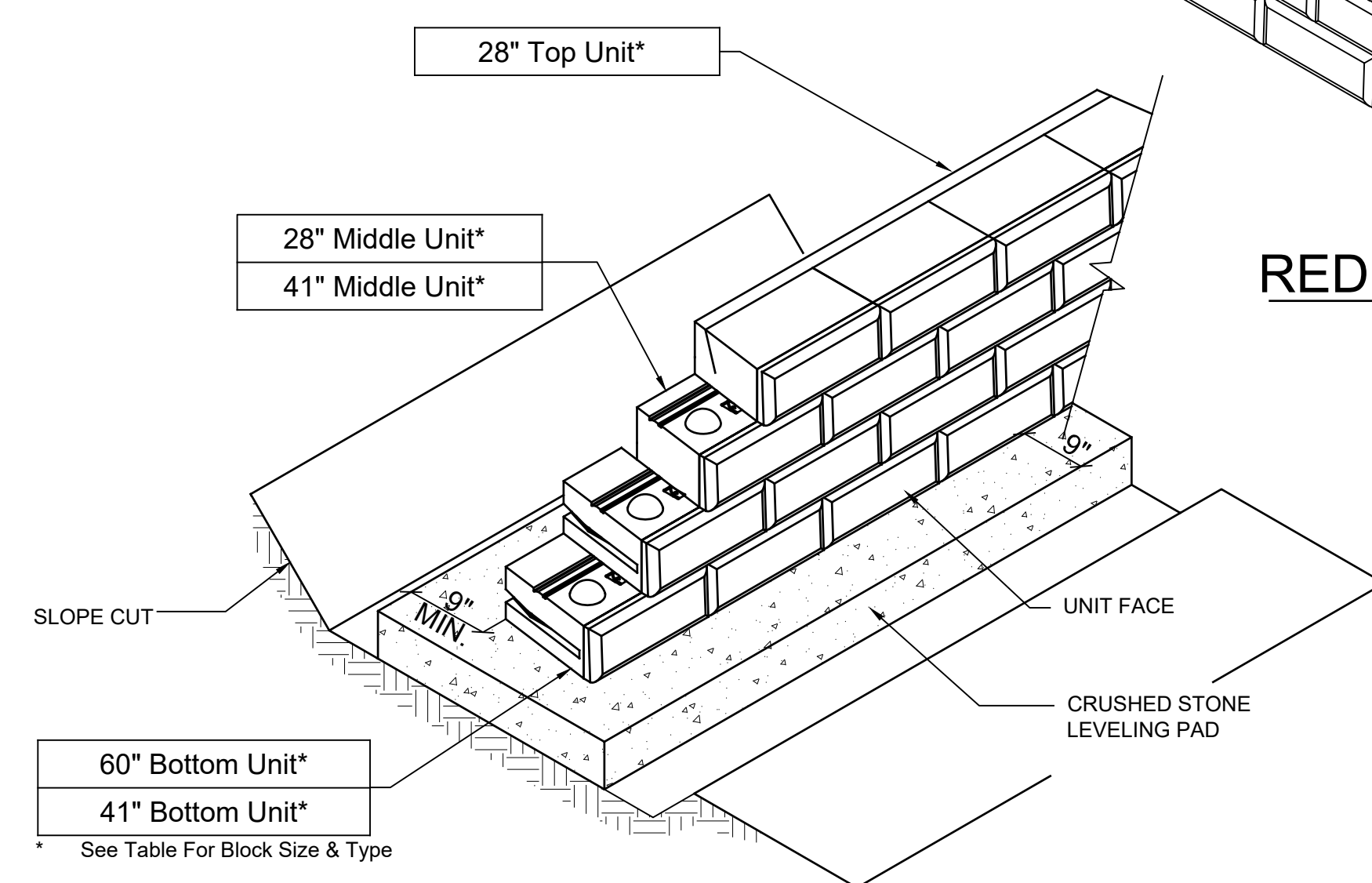
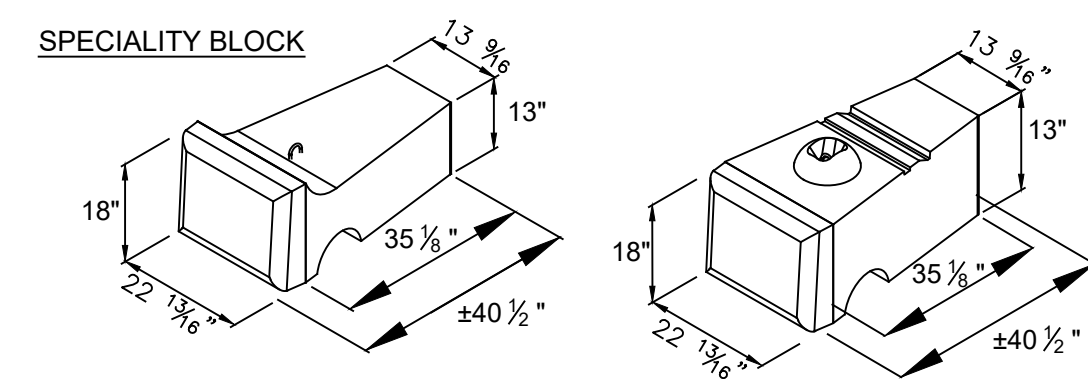
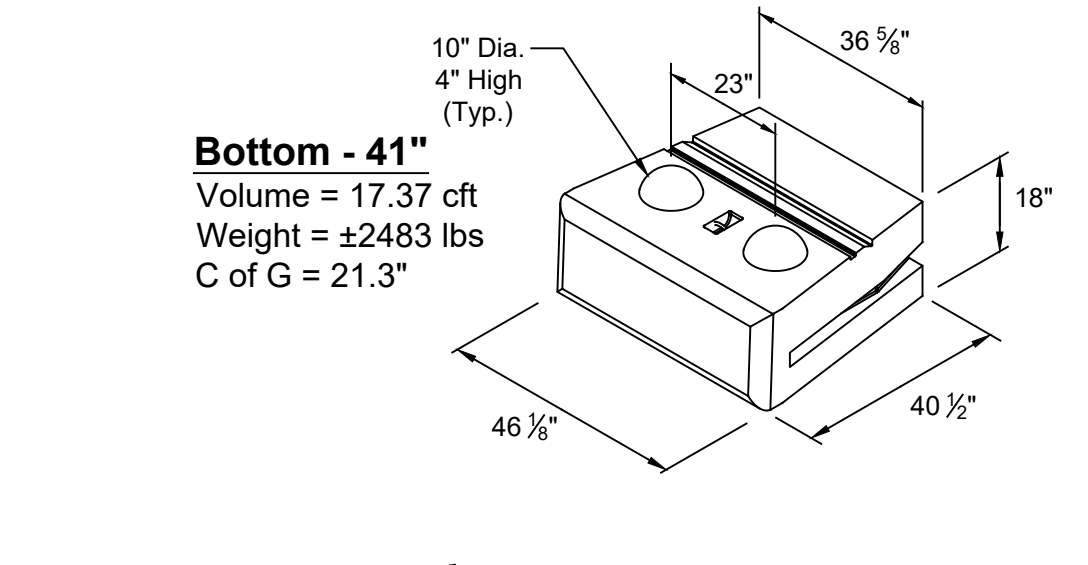
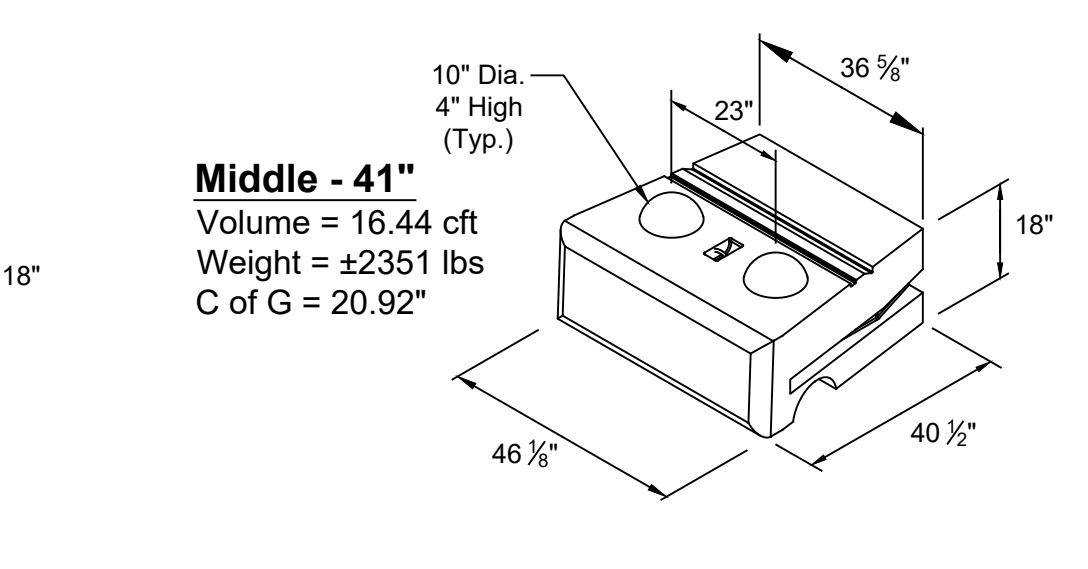
- Hold Top of Wall Elevations.
- Step Walls as Required to Meet Grades Shown on the Site Plan.
- All Walls Shall Have a Minimum Block Embedment Depth As Noted.
- All Walls Shall Have a 28" Top Block

ST-1 TYPICAL GRAVITY WALL SECTION DETAIL
NOT TO SCALE

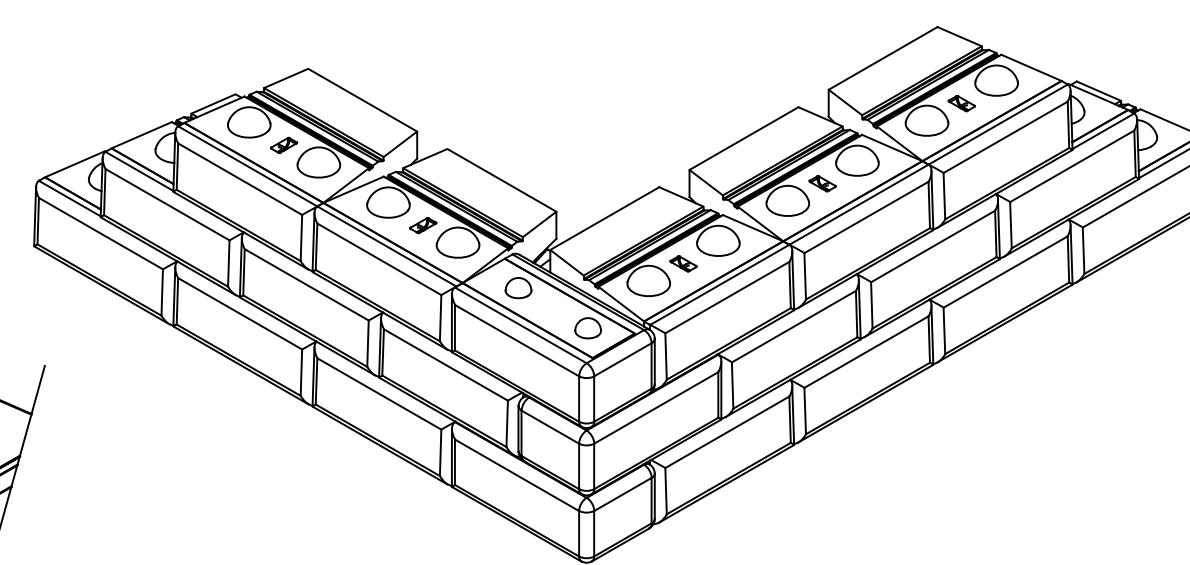
28" SERIES BLOCKS



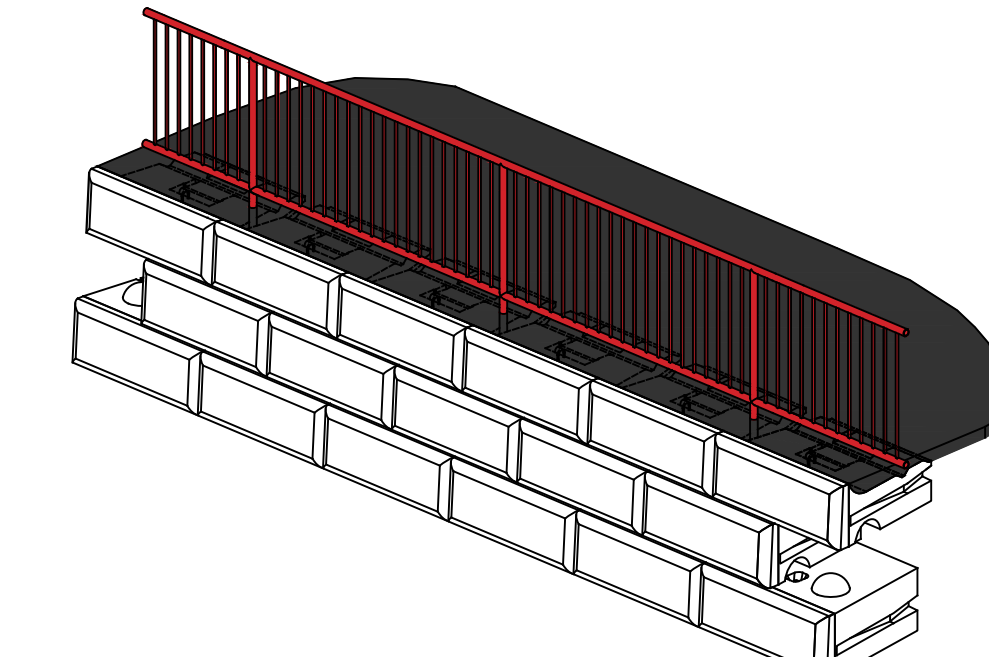
41" SERIES BLOCKS



STANDARD UNIT/BASE PAD ISOMETRIC VIEW DETAIL
REDIROCK BLOCK DETAILS
NOT TO SCALE



REDI ROCK CORNER DETAIL

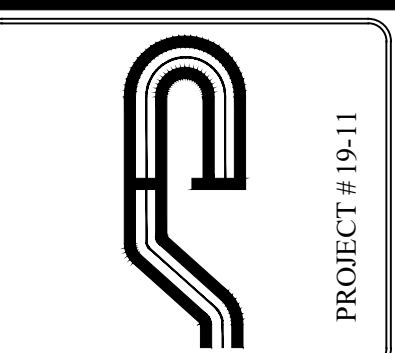


Grouted Post Connection (2 Blocks) FENCE DETAIL

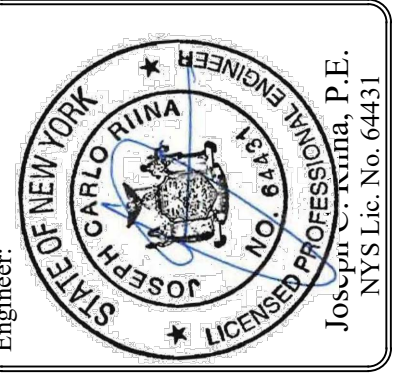
- BASE LEVELING PAD NOTES:**
- The leveling pad is to be constructed of crushed washed stone or compacted aggregate.
 - The base foundation is to be approved by the site engineer prior to placement of the leveling pad.
 - See "Typical Wall Section Detail" for leveling pad layer depth
 - This Detail is used for reference only. Refer to Detail ST-1.

ST-2

NOTE: UNAUTHORIZED ALTERATIONS OR ADDITIONS TO THIS DRAWING IS A VIOLATION OF SECTION 7209 (2)(F) OF THE NEW YORK STATE EDUCATION LAW.



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| Revisions: | No. | Date | Comments | Plan Update |
|------------|-----|----------|-------------|-------------|
| | 1 | 11/29/22 | Plan Update | |

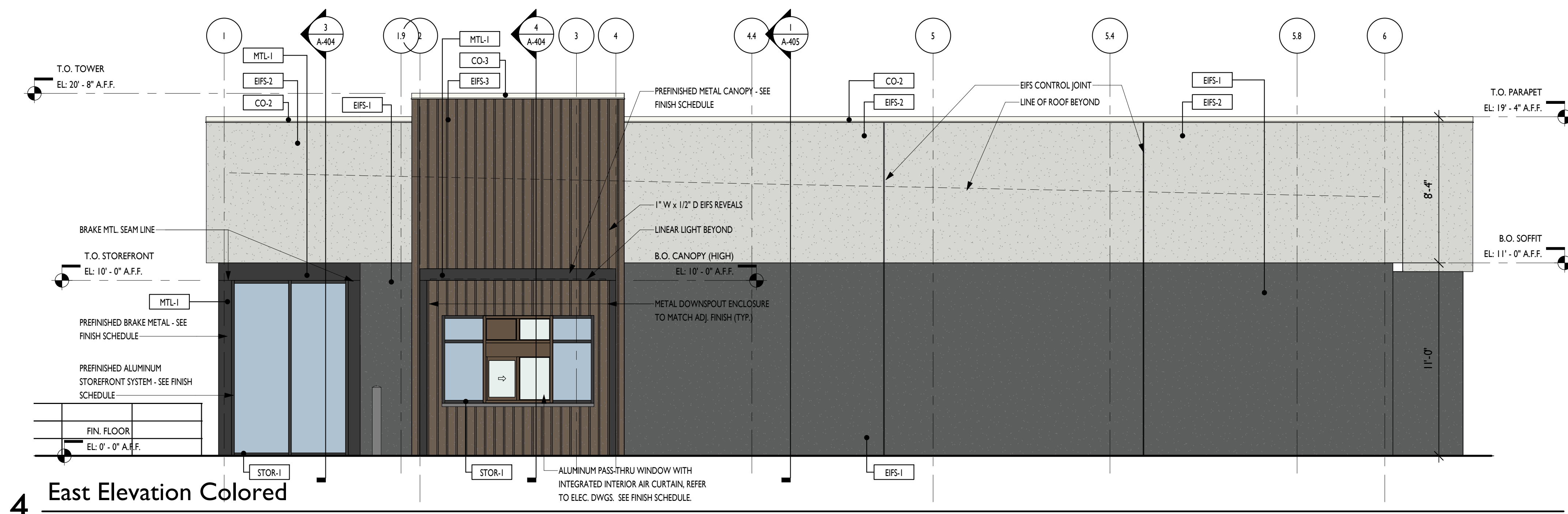
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| SCALE: | NTS |
| DRAWN BY: | TK |
| DATE: | 10/21/22 |

RETAINING WALL WALL DETAILS

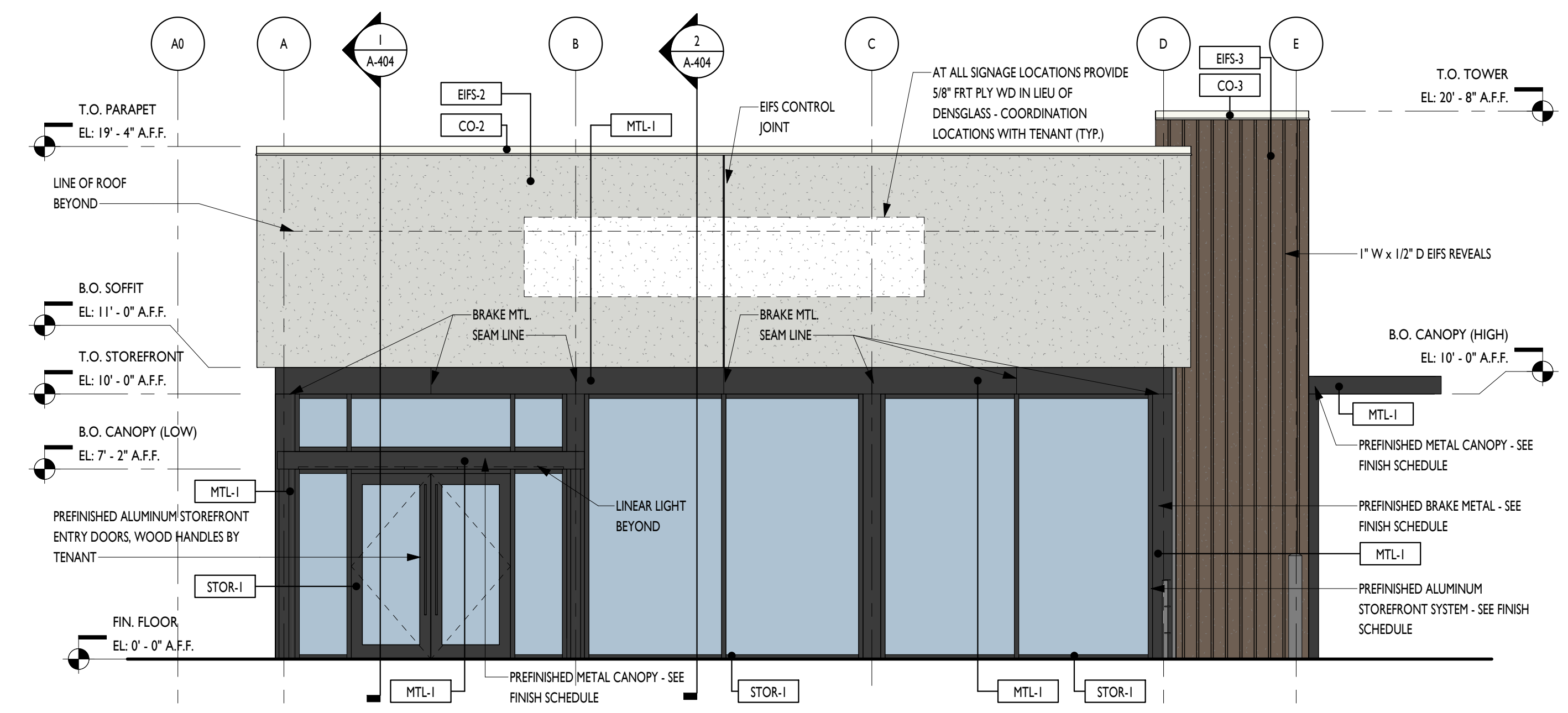
SITE PLAN PREPARED FOR
PAD C
CROMPOD ROAD
Westchester County, New York
Town of Yorktown

Sheet **C-507**

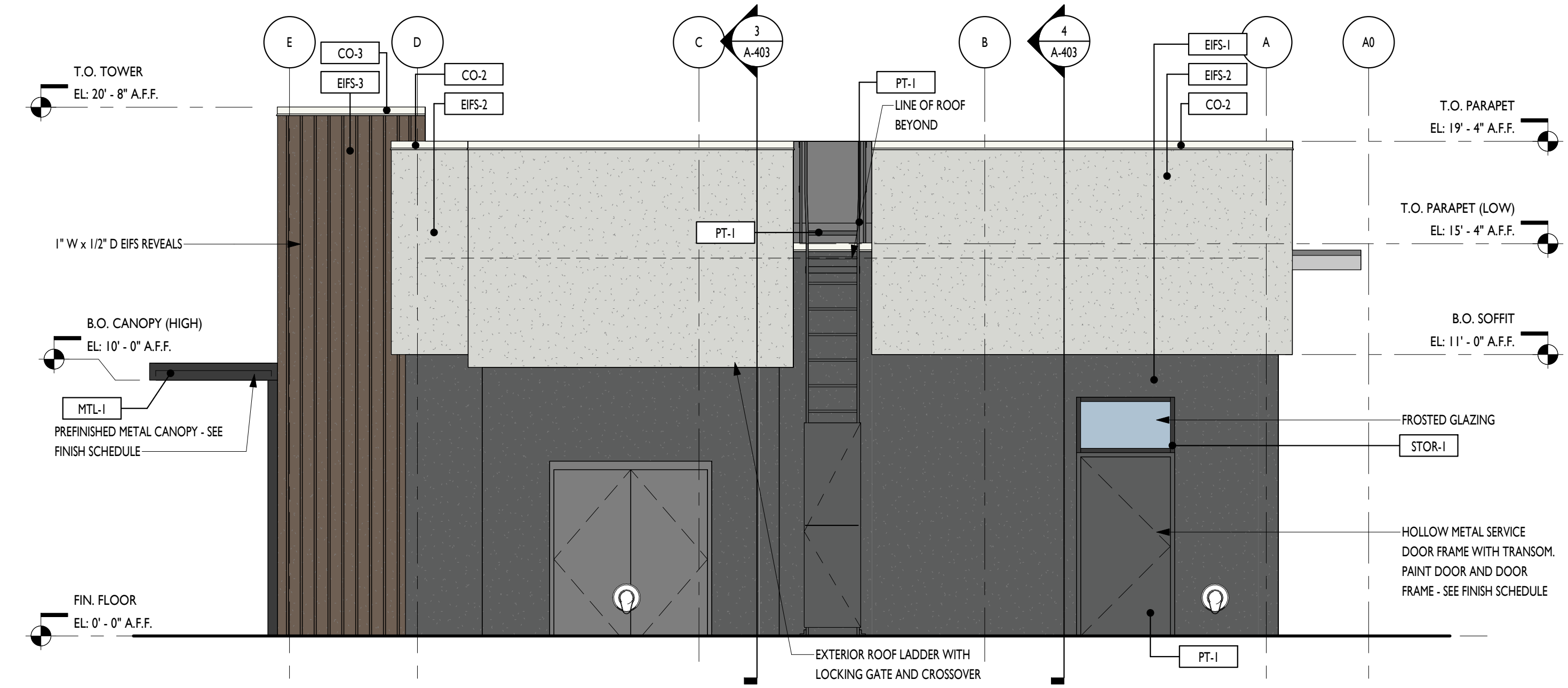
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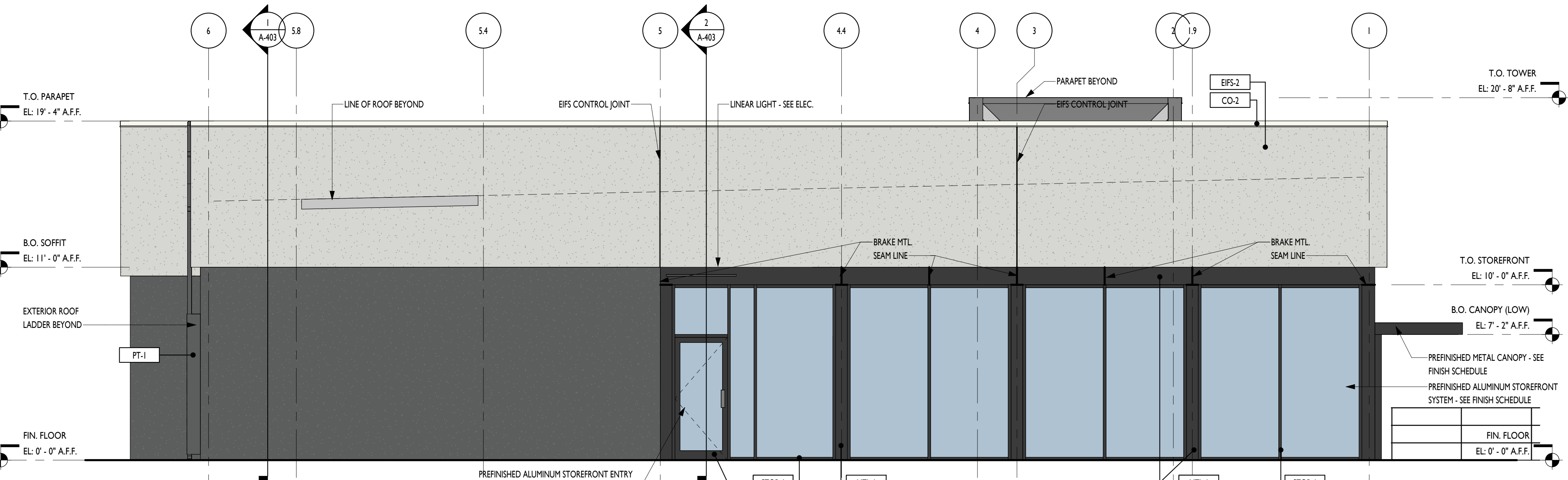
4 East Elevation Colored
Scale: 1/4" = 1'-0"



3 South Elevation Colored
Scale: 1/4" = 1'-0"



2 North Elevation Colored
Scale: 1/4" = 1'-0"



1 West Elevation Colored
Scale: 1/4" = 1'-0"

Exterior Finish Schedule

| TAG | MANUFACTURER | FINISH COLOR |
|--------|-----------------------------|--|
| CO-1 | ATAS | #62 - CHARCOAL GREY |
| CO-2 | ATAS | #10 - ASCOT WHITE |
| CO-3 | ATAS | #3 - MEDIUM BRONZE |
| BFS-1 | DRYVIT | SANDBLEBLE FINISH TO MATCH PPG KNIGHTS ARMOR |
| BFS-2 | DRYVIT | SANDBLEBLE FINISH TO MATCH PPG FOG |
| BFS-3 | DRYVIT | SANDBLEBLE FINISH TO MATCH SW 7515 HOMESTEAD BROWN |
| MTL-1 | API AMERICAN PRODUCTS, INC. | BLACK TO MATCH STOREFRONT |
| MTL-2 | QUIKSERV | DARK BRONZE |
| PT-1 | PPG | PPG KNIGHTS ARMOR |
| STOR-1 | KAWNEER | BLACK |

NOTES:
1. 12"x12" SAMPLES MUST BE SUBMITTED TO ARCHITECT OF ALL EXTERIOR MATERIALS (EIFS, BRICK VENEER, PAINT, PRECAST, COPING/METAL, CLAPBOARD AND AWNING.) ADDITIONALLY, FIELD MOCK-UP REQ'D.
NOTE: ALL SIGNAGE FOR REVIEW UNDER SEPARATE PERMIT.

Pad Building C at Yorktown
Yorktown Heights New York

CREATE
Architecture Planning & Design LLC

45 West 34th Street Penthouse
New York, NY 10001
Phone: (212) 297-0880
createworldwide.com

Owner / Developer:
Breslin Realty Development Corp.
500 Old Country Road
Garden City, NY, 11530

Structural Engineers:
Meyer Consulting Engineers Corp.
451 Hungerford Drive, Suite 600
Rockville, MD 20850-451

M/E/P Engineers:
Nelson + Pope
70 Maxess Road
Melville, NY 11747

Site/Civil Engineers:
Site Design Consultants
251-F Underhill Avenue
Yorktown Heights, NY 10598

Landscape Architects:
A2 Land Consulting, LLC
30 Rocky Hill Road
New Fairfield, CT 06812

| No. | Date | Description |
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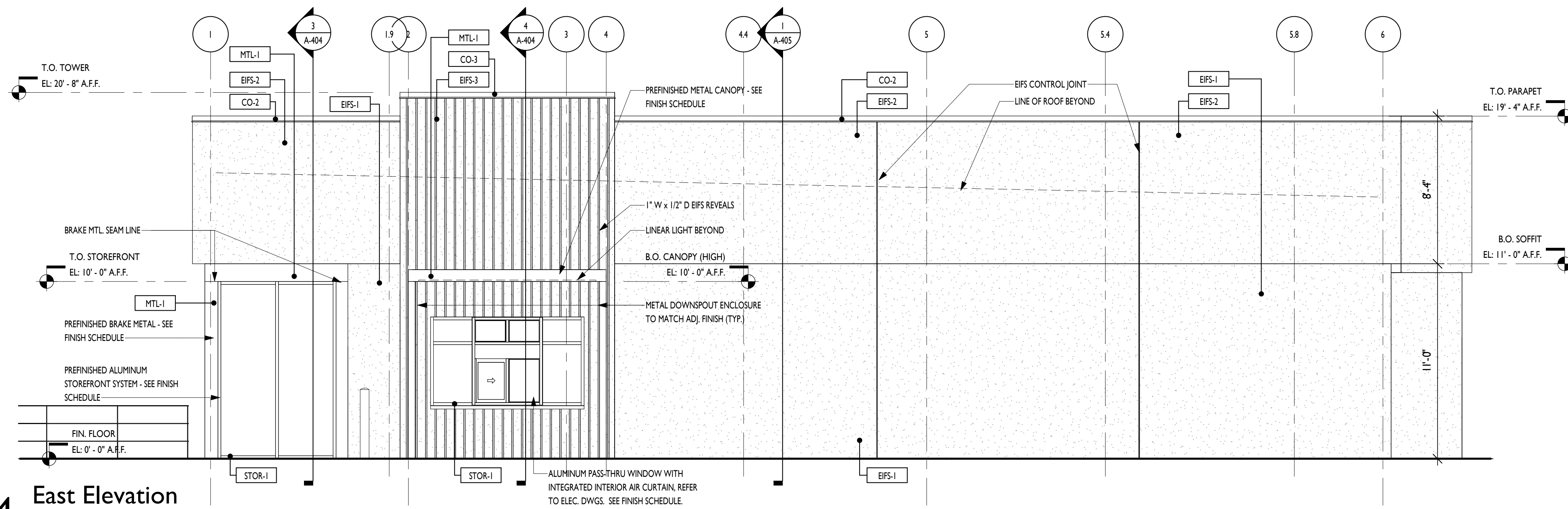
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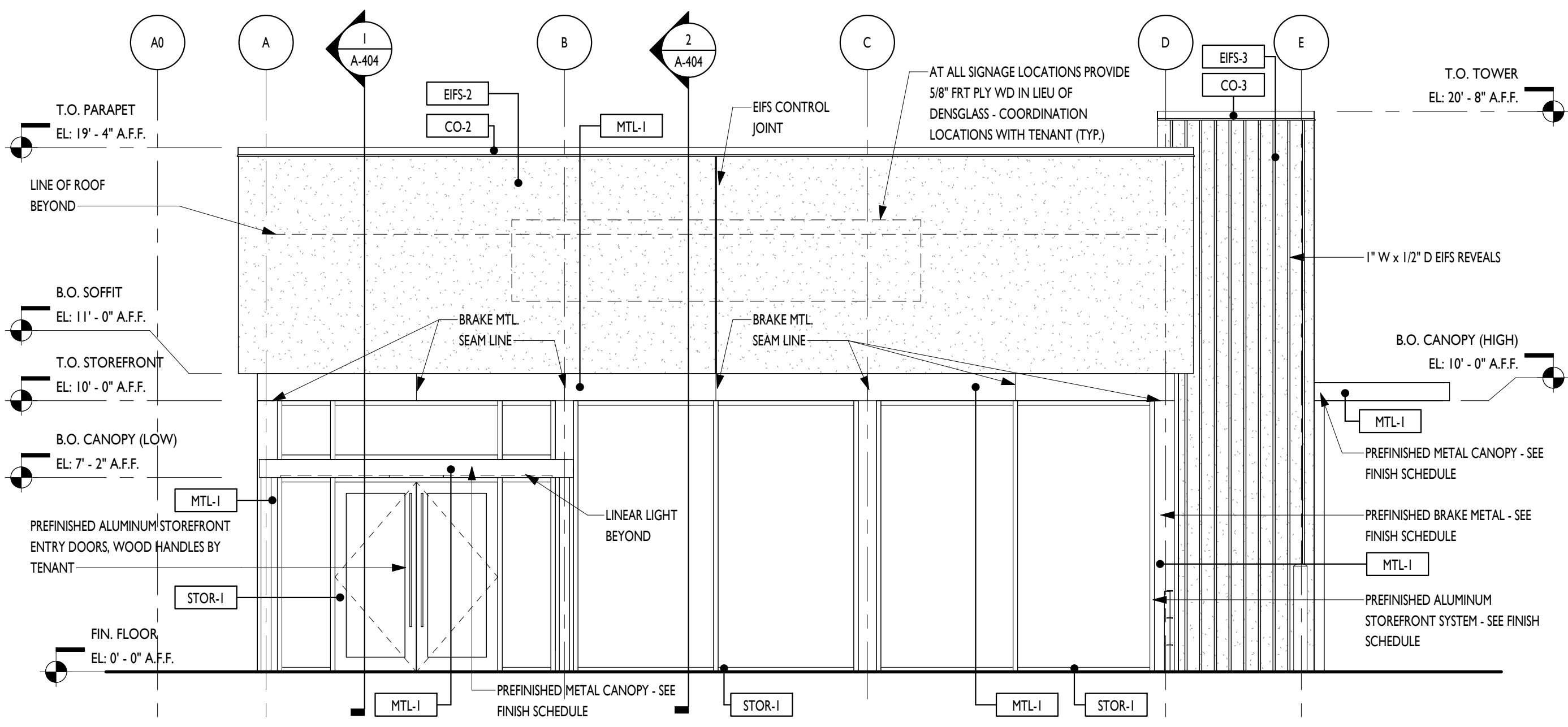
LICENSE # 13964
EXP. 07/31/23

Exterior Building Elevations and Finish Schedule

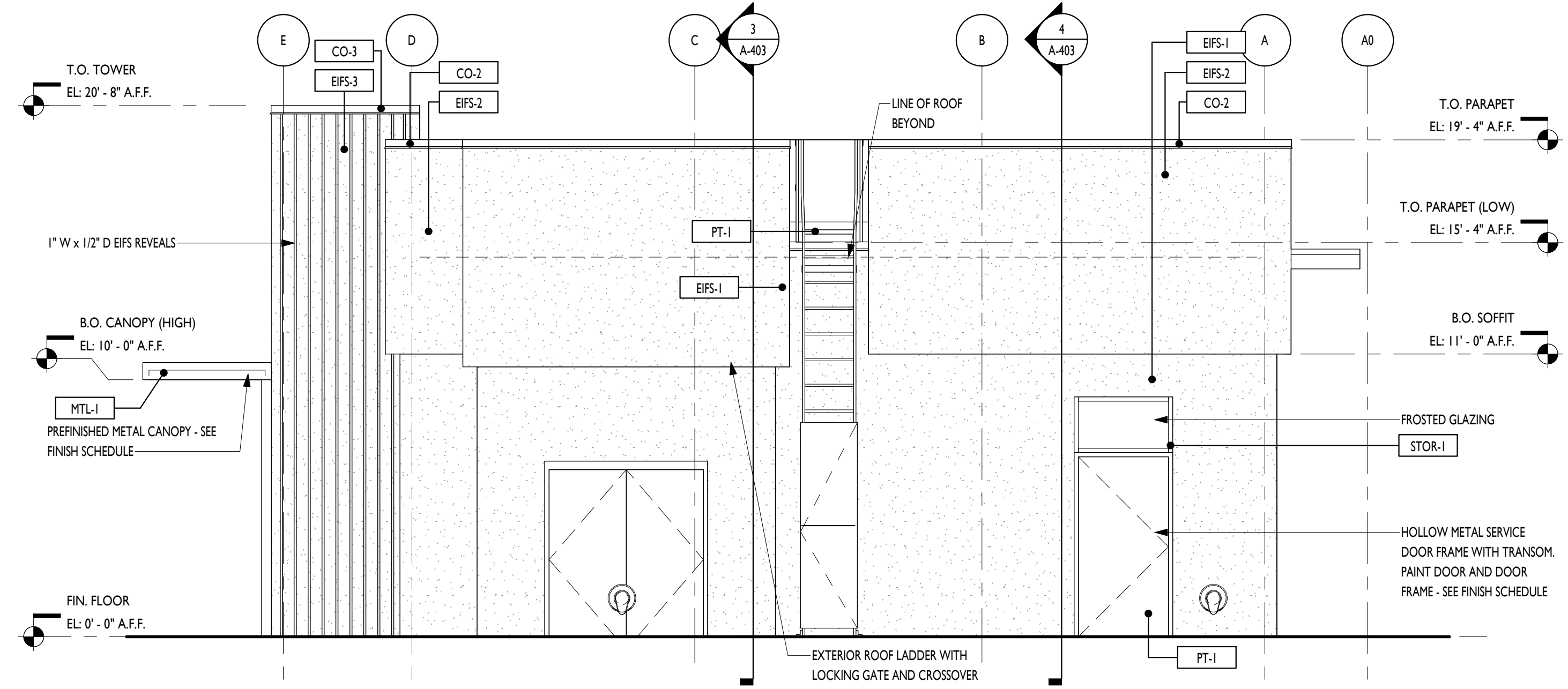
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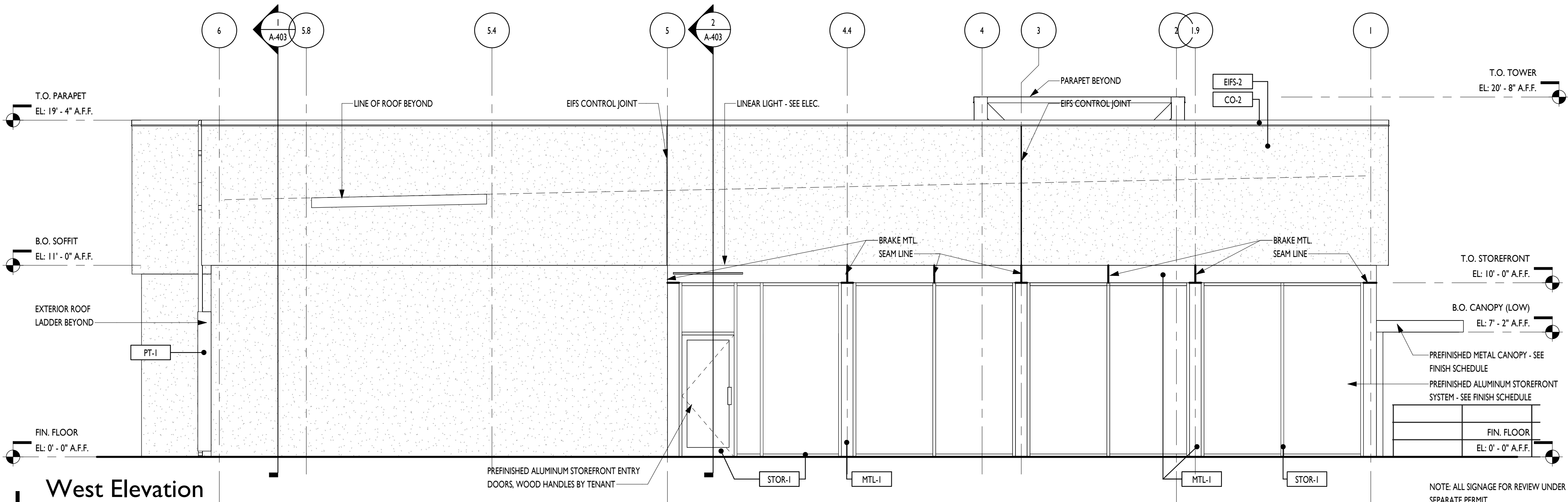
4 East Elevation
Scale: 1/4" = 1'-0"



3 South Elevation
Scale: 1/4" = 1'-0"



2 North Elevation
Scale: 1/4" = 1'-0"



1 West Elevation
Scale: 1/4" = 1'-0"

Exterior Finish Schedule

| TAG | MANUFACTURER | FINISH COLOR |
|--------|-----------------------------|--|
| CO-1 | ATAS | #62 - CHARCOAL GREY |
| CO-2 | ATAS | #10 - ASCOT WHITE |
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Yorktown Heights New York

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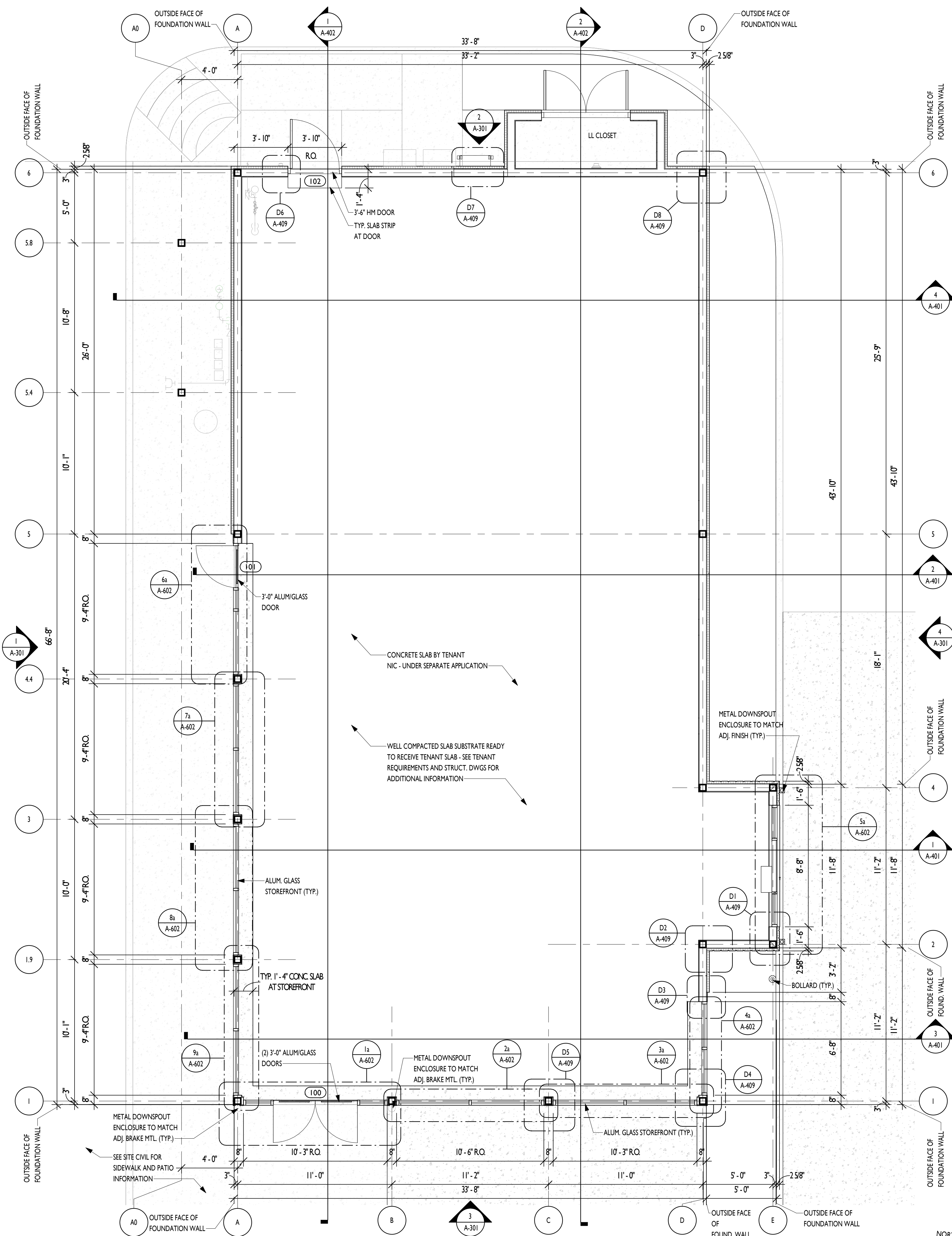
Site/Civil Engineers:
Site Design Consultants
251-F Underhill Avenue
Yorktown Heights, NY 10598

Landscape Architects:
A2 Land Consulting, LLC
30 Rocky Hill Road
New Fairfield, CT 06812

| No. | Date | Description |
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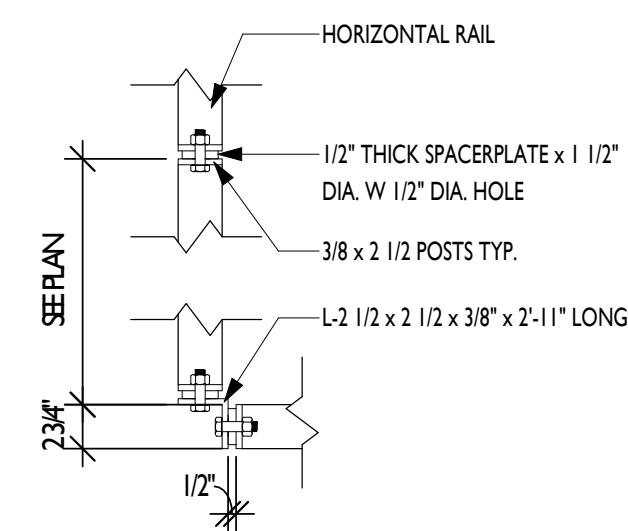
Floor Plan

Scale: 1/4" = 1'-0"



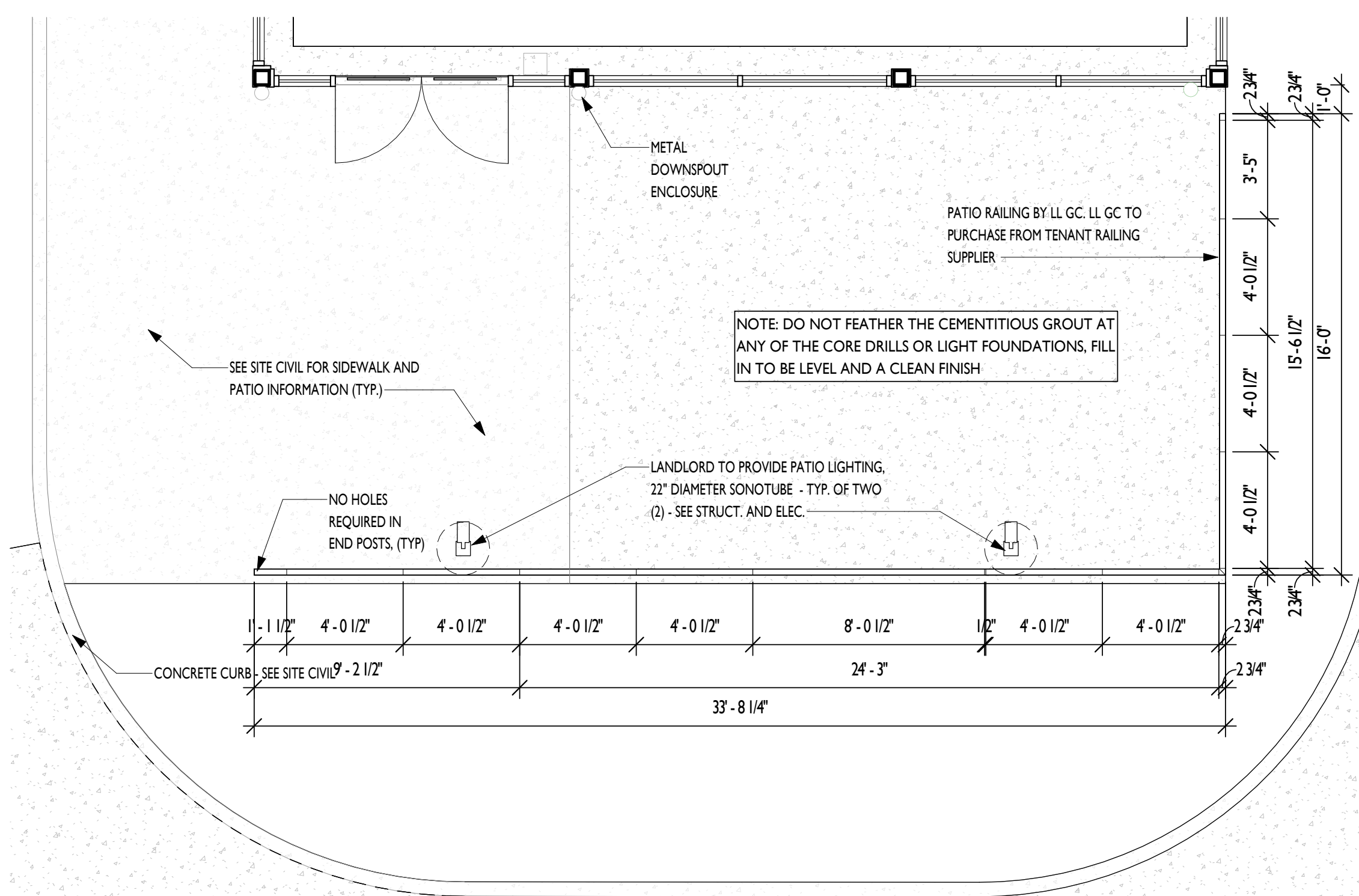
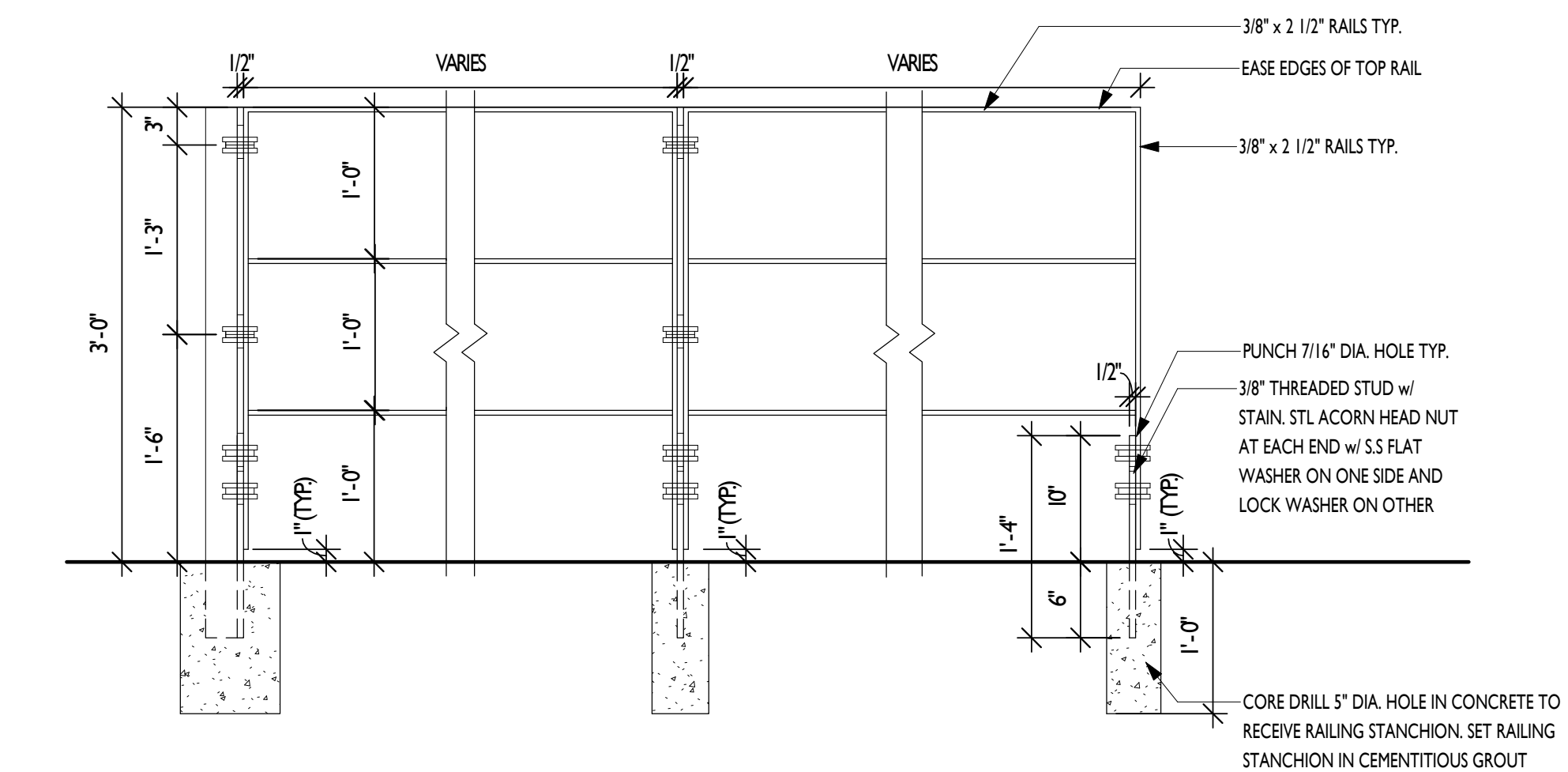
4 Railing Plan Detail

Scale: 1" = 1'-0"



3 Railing Mounting Detail

Scale: 1" = 1'-0"



2 Patio Plan

Scale: 1/4" = 1'-0"

NOTE: ALL WALLS TO BE FINISHED TO LEVEL 4 FROM FLOOR TO UNDERSIDE OF DECK

Pad Building C at Yorktown
Yorktown Heights
New York

CREATE
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EXP. 07/31/23

Floor Plan

1535C A-100



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STORE NO.: 31-4578
 YORKTOWN HEIGHTS
 3200 Crompond Rd Yorktown Heights NY

Issue Record:

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|----------|-------------|
| 06/20/22 | KO Sketches |
| 08/26/22 | ICP Set |

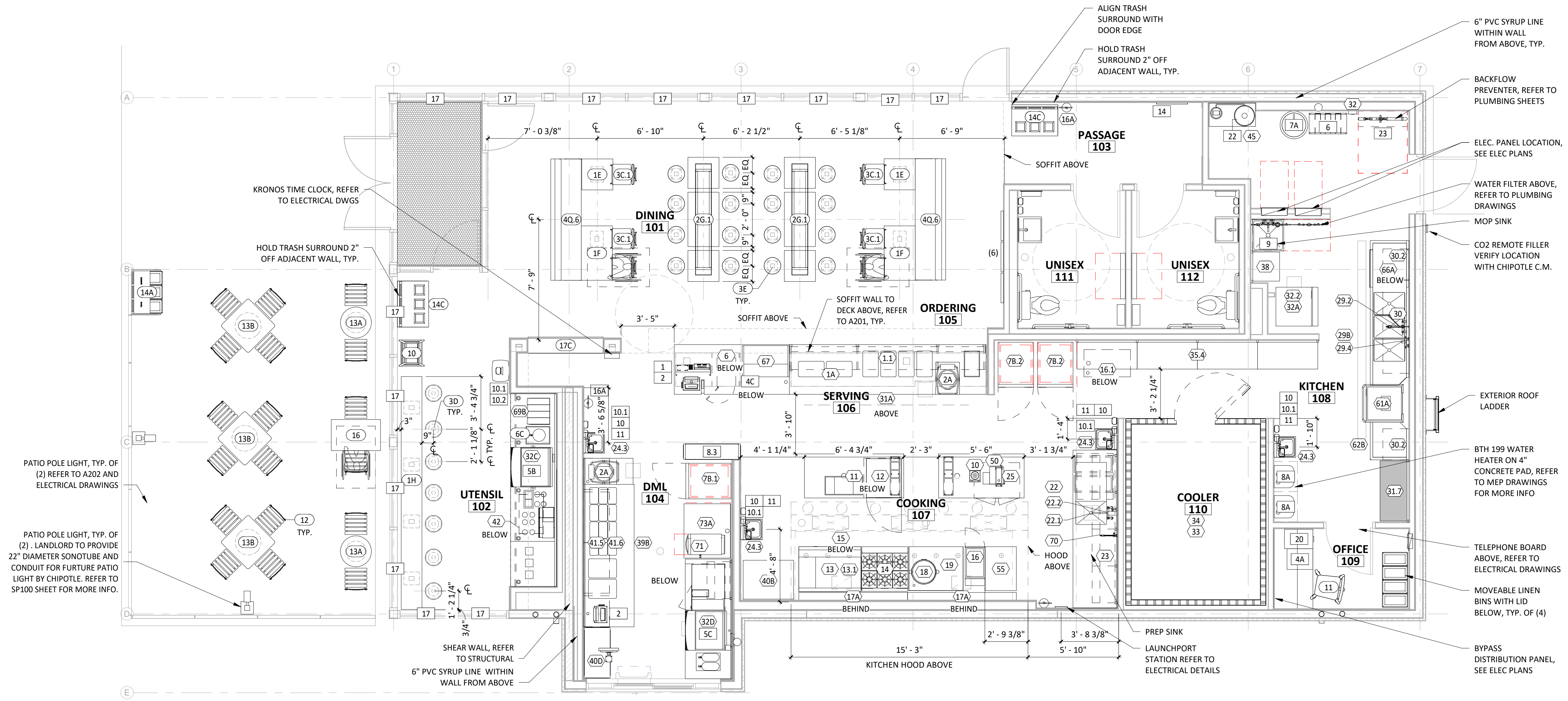
Revisions:

| | | |
|---|----------|------------|
| 1 | 10/08/21 | REVISION 1 |
|---|----------|------------|

Drawn: B.V.D.
 Checked: J.C.C.
 Project No: 22046

Contents:
FF&E PLAN

ICP-4



FURNITURE, FIXTURE & EQUIPMENT PLAN
 1/4" = 1'-0"

NOTE:
 ALL DIMENSIONS TO EXTERIOR OR EXISTING WALLS ARE TO THE
 FINISH FACE OF THE EXISTING GYP. BD.

Toll Brothers
Catherine Street

November 15, 2022

Via Hand Delivery

Supervisor Matthew Slater
And Members of the Town Board
Town Hall
363 Underhill Avenue
Yorktown Heights, New York 10598

***Re: Toll Brothers, Inc. – Petition for Zoning Map Amendment
2302 Catherine Street and 2448 Catherine Street
Yorktown, New York (“Property”)***

Dear Supervisor Slater and Members of the Town Board:

This firm represents Toll Brothers, Inc. (“Toll” or “Petitioner”), the contract-vendee to purchase the Property located at 2302 Catherine Street and 2448 Catherine Street, owned by Field Home – Holy Comforter (“Field Home”). The parcels to be purchased include the former Catherine Field Home building (“Field Home Building”), as well as the largely undeveloped parcel to the property adjoining the Field Home Building to the north, consisting of approximately 50.51 acres (collectively, the “Property”).

Toll is pleased to submit the enclosed Petition for a Zoning Map Amendment (“Petition”). The Petition requests that your Board rezone the Property to the RSP-2 District to facilitate Toll’s redevelopment proposal, detailed herein. Upon the requested rezoning, Toll could develop a 118-unit townhouse community for 55+ “active adults” on a 48.05-acre portion of the Property. The community would include onsite amenities accommodating the “downsizer” demographic, such as a clubhouse and pool. The proposal would also include the subdivision of the 2.46-acre portion of the Property on which the Field Home Building sits, so that the structure can be preserved for the Town’s use.

We respectfully request that the Town Board place the Petition on its next available agenda to accept the Petition, commence SEQRA and make the necessary referrals to the Town Planning Board and Westchester County.

By way of background, the Property is currently split-zoned in the RSP-3 and R1-40 Districts. Aside from the Field Home Building and practice soccer field licensed to the Town

(set to expire in 2026), the Property is largely undeveloped. The portion of the Property in the RSP-3 District could currently be development with a multi-level nursing home, assisted living facility, and/or hospices, among other similar uses involving high intensity care. See Town Code § 300-159. The other portion of the Property is zoned R1-40, which district is meant for development of residential uses. See Town Code, § 300-21.

Toll believes that the Property presents an excellent opportunity to introduce housing that targets the downsizer demographic -- i.e., adults aged 55+ who are looking to move out of their single-family houses and into homes where they can age in place in the community. As the Town recognized in its 2010 Comprehensive Plan, this portion of the community continues to grow in size, and thus, there is an important need to diversify housing options in Yorktown for seniors. Toll's proposal would assist the Town in meeting this demand by offering townhouse units with first floor master bedrooms and on-site recreational amenities catering to active adults.

Unfortunately, Toll Brothers' envisioned use for the Property is not permitted under the current RSP-3/R1-40 zoning. Toll Brothers is thus asking that your Board rezone the Property to the RSP-2 District, which would permit the intended use. According to the Town Zoning Code, the RSP-2 District was created to encourage 55+ residential development near commercial centers in the Town's Hamlets for aging adults who do not need the intense level of care associated with uses allowed in the RSP-3 District. See Town Code, § 300-152. Since the Property is located within 1,500 feet of the C-4 District in the Hamlet of Crompond, it is respectfully submitted that rezoning the Property to the RSP-2 District would be an appropriate legislative step towards facilitating the Town's development vision.

Accordingly, the Petitioner respectfully requests placement on the Town Board's next agenda so that it may accept the Petition and commence the necessary procedures for review of the proposed Zoning Map Amendments. This includes referring the Petition to the Town Planning Board and Westchester County Planning Department, commencing the SEQRA review by declaring your intent to serve as the lead agency, and scheduling a public hearing.

In support of this request, enclosed please find the following materials:

- Application for Change of Zone;
- Check in the amount of \$3,500.00 for the filing fee and check in the amount of \$100.00 for the purpose of reimbursing the Town for the costs of publication;
- Long Environmental Assessment Form Parts 1 & 2, prepared by Site Design Consultants, dated November 14, 2022;
- Written Metes and Bounds Description of the Property to be Rezoned, prepared by CMG Engineering, Surveying and Landscape Architecture, P.C., dated November 11, 2022;
- Verified Petition for Zoning Map Amendment, dated November 14, 2022;
- Owner's Authorization;
- Proposed Local Law Amending the Zoning Map;
- Applicable Sections of the Town's Tax Map;

- Applicable Portion of the Town's Existing Zoning Map;
- Conceptual Site Plan for the Property, prepared by CMG Engineering, Surveying, and Landscape Architecture, P.C., dated November 8, 2022;
- Traffic Impact Study, prepared by Colliers Engineering & Design, dated October 19, 2022;
- Fiscal Impact Analysis, prepared by ESE Consultants, dated November 9, 2022;
- Real Estate Property Tax Projection Report, prepared by Cronin & Cronin Law Firm, PLLC, dated May 17, 2022;
- Wetland and Watercourse Update Letter, dated October 22, 2022, and Wetland Delineation Report, dated October 27, 2021, prepared by Ecological Analysis LLC; and
- New York State Office of Parks, Recreation & Historic Preservation Correspondence, dated October 28, 2022.

We look forward to meeting with your Board in the review of this Application. In the meantime, if you have any questions or require any additional information, please do not hesitate to contact us.

Respectfully Submitted,

ZARIN & STEINMETZ LLP

By: 

David J. Cooper
Jaclyn Cohen

Encls.

cc: Adam Rodriguez, Esq., Town Attorney
Toll Brothers, Inc.



November 11, 2022

DESCRIPTION OF PROPERTY
PROPOSED LOT 1 (TOLL)

All that certain lot or parcel of land situated in the Town of Yorktown, County of Westchester, State of New York being more particularly described as follows:

Beginning at a point on the easterly line of Catherine Street, said point being North 02 degrees 45 minutes 31 seconds West 354.14 feet from the intersection of the easterly line of Catherine Street with the southerly line of Lot 2, as shown as shown on a plan entitled, "Sheet 1 of 3, Water & Sewer Easements, Lot Line Adjustment Map, Prepared for Field Home, being filed in the Westchester County Clerk's Office on January 02, 2019, as filed map no. 29255; thence

1. Along the easterly line of Catherine Street, North 02 degrees 45 minutes 31 seconds West 1362.58 feet; thence
2. Along the lands of the City of New York, Catskill Aqueduct ROW, on a curve to the left having a radius of 275.00 feet, an arc length of 54.87 feet and a central angle of 11 degrees 10 minutes 56 seconds,
3. North 72 degrees 43 minutes 30 seconds East 435.10 feet,
4. on a curve to the right having a radius of 125.00 feet, an arc length of 52.47 feet and a central angle of 24 degrees 03 minutes 00 seconds,
5. South 83 degrees 13 minutes 30 seconds East 63.90 feet,
6. on a curve to the right having a radius of 125.00 feet, an arc length of 52.47 feet and a central angle of 24 degrees 03 minutes 00 seconds,
7. South 59 degrees 10 minutes 30 seconds East 397.10 feet,
8. on a curve to the left having a radius of 275.00 feet, an arc length of 40.40 feet and a central angle of 08 degrees 25 minutes 00 seconds,
9. South 67 degrees 35 minutes 30 seconds East 585.40 feet and
10. on a curve to the left having a radius of 275.00 feet, an arc length of 34.61 feet and a central angle of 07 degrees 12 minutes 40 seconds; thence
11. along the westerly line of Field Street, South 00 degrees 03 minutes 00 seconds East 150.49 feet,
12. South 00 degrees 47 minutes 09 seconds East 409.70 feet and
13. South 02 degrees 36 minutes 47 seconds West 699.09 feet; thence

CMG Engineering, Surveying and Landscape Architecture, P.C.

42 Old Ridgebury Road · 2nd Floor · Danbury, Connecticut 06810

14. Along the lands now or formerly Fox Den Development Corp., the lands now or formerly The Town of Yorktown and the lands now or formerly YRNC Reality LLC, North 65 degrees 37 minutes 00 seconds West 283.80 feet,
15. North 64 degrees 48 minutes 30 seconds West 323.59 feet,
16. North 00 degrees 09 minutes 40 seconds East 33.52 feet,
17. South 77 degrees 20 minutes 13 seconds West 433.28 feet,
18. North 12 degrees 39 minutes 47 seconds West 65.22 feet and
19. South 87 degrees 14 minutes 29 seconds West 505.43 feet to the point or place of beginning.

Containing 48.06 acres of land more or less

Subject to and together with all Right of Ways, legal easements and restrictions of record, if any.



November 11, 2022

DESCRIPTION OF PROPERTY
PROPOSED LOT 2 (TOWN PARCEL)

All that certain lot or parcel of land situated in the Town of Yorktown, County of Westchester, State of New York, being a portion of Lot 2, as shown on a plan entitled, "Sheet 1 of 3, Water & Sewer Easements, Lot Line Adjustment Map, Prepared for Field Home, being filed in the Westchester County Clerk's Office on January 02, 2019, as filed map no. 29255, and being more particularly described as follows:

Beginning at a point on the easterly line of Catherine Street, said point being the intersection of the easterly line of Catherine Street with the southerly line of Lot 2 as shown on said filed map 29255; thence

1. Along the easterly line of Catherine Street, North 02 degrees 45 minutes 31 seconds West 354.14 feet; thence
2. Over and through Lot 2, North 87 degrees 14 minutes 29 seconds East 505.43 feet and
3. South 12 degrees 39 minutes 47 seconds East 65.22 feet; thence
4. along Lot 3, South 77 degrees 20 minutes 13 seconds 139.85 feet,
5. South 04 degrees 56 minutes 30 seconds East 76.72 feet
6. South 85 degrees 03 minutes 30 seconds West 56.77 feet,
7. South 40 degrees 03 minutes 30 seconds West 25.29 feet,
8. South 85 degrees 03 minutes 30 seconds West 50.00 feet,
9. South 52 degrees 04 minutes 00 seconds West 152.68 feet,
10. South 00 degrees 51 minutes 31 seconds West 68.48 feet and
11. South 82 degrees 41 minutes 16 seconds West 129.21 feet to the point or place of beginning,

Containing 2.45 acres of land more or less

Subject to and together with all Right of Ways, legal easements and restrictions of record, if any.

CMG Engineering, Surveying and Landscape Architecture, P.C.

42 Old Ridgebury Road · 2nd Floor · Danbury, Connecticut 06810

p: 203.616.4951 · f: 203.616.4950

TOWN BOARD OF THE TOWN OF YORKTOWN
WESTCHESTER COUNTY, STATE OF NEW YORK

----- X
In the Application of :
 :
 TOLL BROTHERS, INC. :
 :
 For an Amendment to the Zoning Map of :
 the Town of Yorktown Pursuant to Section 300-206 :
----- X

**VERIFIED PETITION
FOR A ZONING
MAP AMENDMENT**

Petitioner, Toll Brothers, Inc. (“Toll” or “Petitioner”), by its attorneys, Zarin & Steinmetz, 81 Main Street, Suite 415, White Plains, New York 10601, as and for its Verified Petition requesting the Town of Yorktown (“Town”) Town Board adopt a Local Law amending the Town Zoning Map (the “Zoning Map Amendment,” a copy of which is annexed hereto as Exhibit “A”), respectfully alleges as follows:

I.
INTRODUCTION

1. Petitioner is a company organized under the laws of the State of Delaware, with offices at 42 Old Ridgebury Rd, Danbury, CT 06810, and submits this Petition pursuant to Section 300-206 of the Town’s Zoning Ordinance.

2. Petitioner is a renowned national homebuilder in operation since 1967, with a footprint that now reaches 24 states. Petitioner prides itself on pursuing opportunities to enhance already vibrant communities by introducing new luxury housing with amenities that address a housing need in the local market. This includes building numerous single-family and townhouse communities in Westchester County. Toll is excited to bring its experience and commitment to high quality residential products to Yorktown.

3. Petitioner’s affiliate Toll Bros., Inc. is the contract-vendee to purchase certain real property in the Town, comprised of ±50.51 acres, located at 2302 and 2448 Catherine

Street, Yorktown, designated on the Town Tax Map as parcels 35.12-1-2, and 35.08-1-45. The applicable sections of the Town's Tax Map are annexed hereto as Exhibit "B." The parcels to be purchased include a parcel containing the former Catherine Field Home building ("Field Home Building"), as well as the largely undeveloped parcel adjoining the Field Home Building to the north (collectively, the "Property").

4. Toll believes the Property presents a great opportunity to introduce a premier housing product to serve residents looking to "downsize" from single-family homes, while staying in the Yorktown community. As set forth in the 2010 Comprehensive Plan ("Comprehensive Plan"), the Town is seeking to diversify its housing stock to serve a growing demographic in Yorktown and surrounding areas of empty nesters and active adults looking to "age in place." See Comprehensive Plan at 5-25. Toll can facilitate the Town's housing goals by introducing a townhouse development to the Property consistent with the 55+ age-restrictions under the Town's definition of a "Specialized Residential Development, Senior Citizens."

5. Specifically, Petitioner proposes to construct 118 age-restricted (55+) townhouses on a ±48.05-acre portion of the Property. The units would average in size from 2,604 to 2,967 square feet. Each unit would contain three bedrooms, with features that encourage an active-adult lifestyle, such as units with first-floor master bedrooms. On-site recreational amenities to accommodate the demands of the residents would also be provided, such as a clubhouse and pool. Approximately 16 acres of the Property would remain as open space.

6. Petitioner further proposes to preserve the locally historic Field Home Building. To accomplish this, Petitioner proposes to resubdivide the Property into two new parcels: (i) the ±48.05-acre parcel containing the new residential development, and (ii) a ±2.46-acre parcel upon which the Field Home Building is located. Toll would convey to the Town (for a nominal

price) the ±2.46-acre parcel so that the structure may be preserved and used by the community as the Town sees fit. In addition, Petitioner would contribute \$150,000.00 to the Town for the purpose of maintaining the Field Home Building while it determines the best use for the community.

7. Collectively, this proposal to resubdivide the Property into two lots, develop a 118-unit townhouse community and preserve the Field Home Building on a separate ±2.46-acre parcel for the Town, is referred to hereinafter as the “Project.”

8. The Project cannot occur under the current zoning. The Property is presently zoned RSP-3 and R1-40.¹ The RSP-3 district allows multi-level nursing homes, assisted living facilities, and hospices, such as the Yorktown Rehabilitation and Nursing Center facilities located to the south of the Property. See Town Code §§ 300-21C(6)(a)[1] & 300-159. The R1-40 District allows single-family dwellings. See id. §300-21C(1)(a)[1].

9. While the zoning designations of the Property contemplates development with housing and related senior care facilities, the split RSP-3/R1-40 would not permit the type of housing envisioned by Toll. Accordingly, Petitioner is asking the Town Board to rezone the Property to the RSP-2 District. The RSP-2 District is a special district meant to encourage 55+ residential development near commercial centers in the Town’s Hamlets for aging adults who do not need the intense level of care associated with uses allowed in the RSP-3 District. See Town Code, § 300-152. Since the Property is located within 1,500 feet of the C-4 District in the Hamlet of Crompond, it is respectfully submitted that rezoning the Property to the RSP-2 District would be an appropriate legislative step towards facilitating the Town’s development vision. Including the Property within the RSP-2 District would permit Toll to develop the 118-townhouse portion

¹ The applicable portion of the Town’s Existing Zoning Map is annexed hereto as Exhibit “C.”

of the Project upon securing a Special Permit, Site Plan, and other approvals from the Planning Board.²

10. In addition to diversifying housing options consistent with the Comprehensive Plan, the Project would bring several other benefits to the Town. Because the development would be restricted to adults aged 55 or older, no school-aged children would be added to the school district. The Town would also benefit from the property tax revenue generated by Petitioner’s proposal, which amounts to approximately \$1 million in combined annual tax surplus to be shared by the Town, County and School District. See Fiscal Impact Analysis, annexed hereto as Exhibit “F.”

11. Accordingly, for the reasons set forth herein, Toll respectfully requests that the Town Board accept this Petition to amend the Town Zoning Map by redesignating the Property from the RSP-3 and R1-40 Districts to the RSP-2 District, so that Petitioner may move forward with its proposal for its active adult community.

II.
THE PROPOSED USE

12. A Conceptual Site Plan, dated November 8, 2022, prepared by CMG Engineering, Surveying, and Landscape Architecture, is annexed hereto as Exhibit “D.”

13. As the Conceptual Site Plan illustrates, Petitioner intends to develop a portion of the Property with a 118-unit townhouse community for active adults seeking homes with less maintenance and first-floor master bedrooms. Amenities catering to a 55+ demographic,

² Petitioner’s 118-unit residential development would comply with the area and bulk requirements of the RSP-2 District, *except*, to the extent that the Town considers the clubhouse an accessory building, Toll would likely require a height variance from the 15-foot maximum height requirement. See Town Code Chapter 300 – Attachment 1. The 15’ height limit for accessory buildings in the RSP-2 would result in a far smaller clubhouse than is typical at Toll communities. In order to accommodate the typical level of clubhouse space and indoor amenities, Toll anticipates seeking a height variance from the ZBA in connection with its site plan application.

including an outdoor pool and clubhouse, would be centrally located near one of the Catherine Street entrances. These amenities would provide the appropriate on-site recreation opportunities to accommodate the demand associated with the 55+ population residing in the new townhouse community.³

14. Petitioner also understands the Town’s desire to preserve the Field Home Building. Despite its best design attempts, Toll has determined that adaptively reusing the Field Home Building in connection with the townhouse development is not feasible. Thus, as part of the Project, Petitioner would subdivide and give the ±2.46-acre portion of the lot on which the Field Home Building sits to the Town so that the structure may be preserved and used by the community as the Town sees fit. In addition, Petitioner would contribute \$150,000.00 to the Town for the purpose of maintaining the Field Home Building while it determines the best use for the community.

15. The preservation of the Field Home Building and the townhouse development of the Property cannot occur under the current zoning of the Property. In the R1-40 District, only one single-family dwelling is permitted per lot. See Town Code § 300-21(C)(1)(a). The RSP-3 District, only permits residences as part of a “geriatric center” -- i.e., “residential multilevel facilities serving the full range needs of the aged who are, for reasons of age, infirm or with chronic illness, unable to care for themselves in an independent housing environment.” See Town Code § 300-21(C)(6)(a); § 300-159. Thus, the RSP-3 District is meant for care uses where the residents require 24/7 supervision by nursing staff. This higher-intensity facility is not the type of residential use Toll envisions for the Project.

³ Since the Project would involve the removal of an existing soccer field on the Property (for which the Town’s lease expires in 2026), Petitioner proposes to contribute \$100,000.00 to the Town Parks & Recreation Department for other recreational improvement projects in the Town.

16. Rather, Petitioner is seeking to introduce an active adult community where residents can take advantage of onsite recreational opportunities, as well as patronize nearby retail shops, restaurants, and other businesses on a regular basis. The RSP-2 District Regulations would permit Petitioner to develop an age-restricted development with an appropriate density and layout for the Property. Petitioner submits that such a use is the type of residential development geared towards Yorktown's senior population the Town Board envisioned when it created the RSP-2 District. See Town Code, § 300-152.

III.
THE ZONING MAP AMENDMENT IS
CONSISTENT WITH THE COMPREHENSIVE PLAN

17. Petitioner submits that its proposed Zoning Map Amendment and associated Project would be consistent with the Town's development vision as set forth in the Comprehensive Plan.

18. According to the summary of the Town's population trends in the Comprehensive Plan, the Town's "empty nester" and senior populations constitute one of the largest demographics in the community. See Comprehensive Plan, at 5-17. Yet, the Town recognized that there is a "lack of available empty-nester housing" in the Town to serve this demographic. Id., at 5-20. Indeed, various realtors working in Yorktown observed that the supply of senior housing such as townhouses is low, meaning that the demand of people seeking to downsize in the community "have limited options for housing." Id., at 5-25.

19. Based upon this data, the Town concluded in the Comprehensive Plan that the Town should "strive for increased housing diversity throughout the Town." Id. at 5-1. This includes increasing opportunities for senior housing in the Crompond Hamlet and Bear Mountain Triangle which serves the Property. Id. ES-5; 5-7.

20. The Project would also address general concerns that the Town has had pertaining to an increased demand for housing and lack of diversity in its housing stock. See id. at 5-2. Specifically, in 2010, the Town recognized that “most new housing is in the form of large-lot single-family homes, and very little is being built in the way of other types of housing.” Id. Petitioner would add 118 townhouse units to the Town’s housing stock, thereby adding to the variety of housing options available in the community.

21. The Zoning Map Amendment would also facilitate a residential use at the Property that is consistent with the planned pattern of development for the area. As discussed above, the Property’s current split RSP-3/R1-40 zoning could result in higher-intensity senior care and residential developments. Rezoning the Property to the RSP-2 District would still permit an age-restricted residential use, but with less demand on community resources such as emergency services and traffic.

22. Moreover, the Project would result in the generation of significant gross tax revenue, as well as the opportunity for the Town to preserve the Field Home Building. Petitioner would contribute \$150,000.00 towards maintaining the Field Home Building, as well as \$100,000.00 to the Parks & Recreation Department for improvement projects in the Town. In contrast, no school children would be added to the School District as a result of the Project since the townhomes would be age restricted and designed to accommodate the portion of the active adult market that no longer have children living at home.

23. Accordingly, it is respectfully submitted that adopting the Zoning Map Amendment to facilitate the Project would foster numerous housing, land use and fiscal goals of the Town.

IV. **SEQRA**

24. In accordance with SEQRA, the Zoning Map Amendment and Project (collectively, the “Action”) constitute a Type I action. Petitioner is submitting herewith a Long Environmental Assessment Form so that the Town Board may declare itself Lead Agency to determine whether the Action would result in any significant adverse environmental impacts after a coordinated review pursuant to 6 NYCRR § 617.7.

25. Petitioner anticipates that a coordinated SEQRA review will culminate in the issuance of a negative declaration. Petitioner has already prepared many of the impact assessments that we respectfully submit will support the Lead Agency finding that any impacts associated with the Action should not be quantified as “significant.” This includes:

- Traffic Impact Study, prepared by Colliers Engineering & Design, dated October 19, 2022 (annexed hereto as Exhibit “E”);
- Fiscal Impact Analysis, dated November 9, 2022, prepared by ESE Consultants (annexed hereto as Exhibit “F”);
- Real Estate Property Tax Projection Report, prepared by Cronin & Cronin Law Firm, PLLC, dated May 17, 2022 (annexed hereto as Exhibit “G”);
- Wetland and Watercourse Update Letter, dated October 22, 2022, and Wetland Delineation Report, dated October 27, 2021, prepared by Ecological Analysis LLC (annexed hereto as Exhibit “H”); and
- New York State Office of Parks, Recreation & Historic Preservation Correspondence, dated October 28, 2022 (annexed hereto as Exhibit “I”).

26. The Traffic Impact Study (“TIS”), for example, demonstrates that developing 118 townhomes at the Property and preserving the Field Home Building would not result in a significant increase in area traffic. Notably, the residents of an age-restricted

development generate a minimal amount of traffic during peak travel hours. Nonetheless, Colliers used trip projections from developments without age restrictions to calculate future traffic conditions, which are *far higher* than an age-restricted project.⁴ Even with these conservative projections of trip generation, the projected levels of service (“LOS”) at key intersections in the vicinity of the Property would continue to operate at A or B. Only the intersection of Garden Lane & Crompond Road would experience a noticeable decrease in LOS during the PM peak hour; however, such impact is going to occur under “no build” future conditions irrespective of the Project. As such, Colliers Engineering & Design has concluded that “the proposed active adult residential development traffic is not expected to cause any significant impact in overall operation.” See Exhibit “E,” TIS at 10.

27. Similarly, Petitioner’s Fiscal Impact Analysis demonstrates that the Project would result in a net *surplus* of \$108,010.00 in tax revenue for Town services, \$12,724.00 for County services, and \$896,969.00 for the Yorktown School District. See Exhibit “F,” Fiscal Impact Analysis. In addition, as an age-restricted development, there would be little, if any, demand on the School District’s resources.

28. In addition, Petitioner has sought the opinion of the New York State Historic Preservation Office (SHPO) as it pertains to the presence of historical and/or archaeological resources for the site and surrounding area. SHPO has opined that the Project would not impact any properties, including archaeological and/or historic resources, listed in or eligible for the New York State and National Registries of Historic Places. See Exhibit “I.”

⁴ As set forth in Table #1 of the TIS, for example, whereas a typical 118-unit townhouse development is expected to generate 47 outbound trips in the AM peak hour, Toll’s age-restricted project is expected to generate only 17 outbound trips in the AM peak hour. See TIS, Appendix B, Tables 1 & 1A. Similarly, in the PM peak hour a typical development would generate 44 inbound trips, whereas an age-restricted project would generate only 19 trips. Id.

29. Of course, Petitioner and its Team of planning, engineering and environmental professionals will also work with the Town and its professionals to identify any other information necessary to complete the “hard look” at the Action prior to completing the SEQRA process.

[intentionally left blank]

V. REQUESTED RELIEF

30. In order to accommodate the Project, Petitioner respectfully requests that the Town Board, pursuant to Section 300-206 of the Zoning Ordinance:

- (i) Accept this Petition and refer this matter to the Town of Yorktown Planning Board for a report and recommendation pursuant to Section 300-206(C) of the Zoning Ordinance; and
- (ii) Declare itself Lead Agency under SEQRA; and
- (iii) Refer the Zoning Map Amendment to the Town Planning Board for its review and support; and
- (iv) Refer the Zoning Map Amendment to the Westchester County Department of Planning for its recommendations; and
- (v) Schedule, notice and conduct a public hearing on the Petition at the earliest possible date; and
- (vi) Resolve to adopt the Zoning Map Amendment annexed hereto as Exhibit "A."

WHEREFORE, it is respectfully requested the instant matter be placed on the earliest possible agenda of the Town Board, and that the relief sought herein be, in all respects, granted.

Dated: November 15, 2022
White Plains, New York

Respectfully Submitted,

ZARIN & STEINMETZ

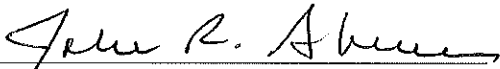
By: 

David J. Cooper
Jaclyn Cohen
Attorneys for Petitioner
81 Main Street, Suite 415
White Plains, New York 10601
(914) 682-7800

OWNER'S AFFIDAVIT

STATE OF NEW YORK)
) ss.:
COUNTY OF WESTCHESTER)

John R. Ahearn, hereby deposes and says that s/he is the Chief Executive Officer at Field Home – Holy Comforter. Field Home – Holy Comforter is the owner of certain real property located at 2302 Catherine Street and 2448 Catherine Street, Yorktown, New York (designated on the Town Tax Map as Section 35.12, Block 1, Lot 2 and Section 35.08, Block 1, Lot 45) and has granted Toll Brothers, Inc., the Petitioner in this proceeding, the authority to prepare, submit and process all necessary and appropriate land use applications, including but not limited to, the instant Petition, in connection with its proposal to develop the Project - a multifamily townhome development on the Property.



Signature of Authorized Representative

John R. Ahearn

Print Name

Sworn to before me this
14 day of November 2022.



Notary Public

Donna D. Haskel
017A6187756
Notary Public, State of New York
Qualified in Putnam County
Commission Expires 05/27/2024

VERIFICATION

STATE OF Connecticut)
COUNTY OF Fairfield)

s.s.:

KEVNEY MOSES, hereby deposes and says that he is the PROJECT MANAGER
at TOLL BROTHERS, INC., which is the Petitioner in this proceeding, and says that the foregoing
Petition is true to his own knowledge, except as to those matters therein stated to be alleged on
information and belief and as to those matters he believes them to be true.


Signature of Authorized Representative

KEVNEY MOSES
Print Name

Sworn to before me this
9 day of November 2022.


Notary Public



A LOCAL LAW AMENDING THE ZONING MAP OF THE TOWN OF YORKTOWN

SECTION 1.

Section 300-6 of the Town Zoning Ordinance, entitled “Zoning Map established”, is hereby amended by the addition of the following (*new language added appears in italics*):

- A. *The Zoning Map of the Town of Yorktown, dated _____, is hereby amended to change the designation of the property identified on the Yorktown Tax Map as Section 35.12, Block 1, Lot 2 (2302 Catherine Street) from the RSP-3 District to the RSP-2 District.*

- B. *The Zoning Map of the Town of Yorktown, dated _____, is hereby amended to change the designation of the property identified on Yorktown Tax Map as Section 35.08, Block 1, Lot 45 (2448 Catherine Street) from the RI-40 District to the RSP-2 District.*

SECTION 2. Severability:

The provisions of this local law are intended to be severable. If any provision of this Local Law is found by a Court of competent jurisdiction to be unconstitutional or otherwise invalid, such findings shall not be deemed to invalidate the local law as a whole, nor any other section or provision thereof, other than that which is found to be unconstitutional or otherwise invalid.

SECTION 3. Effective Date:

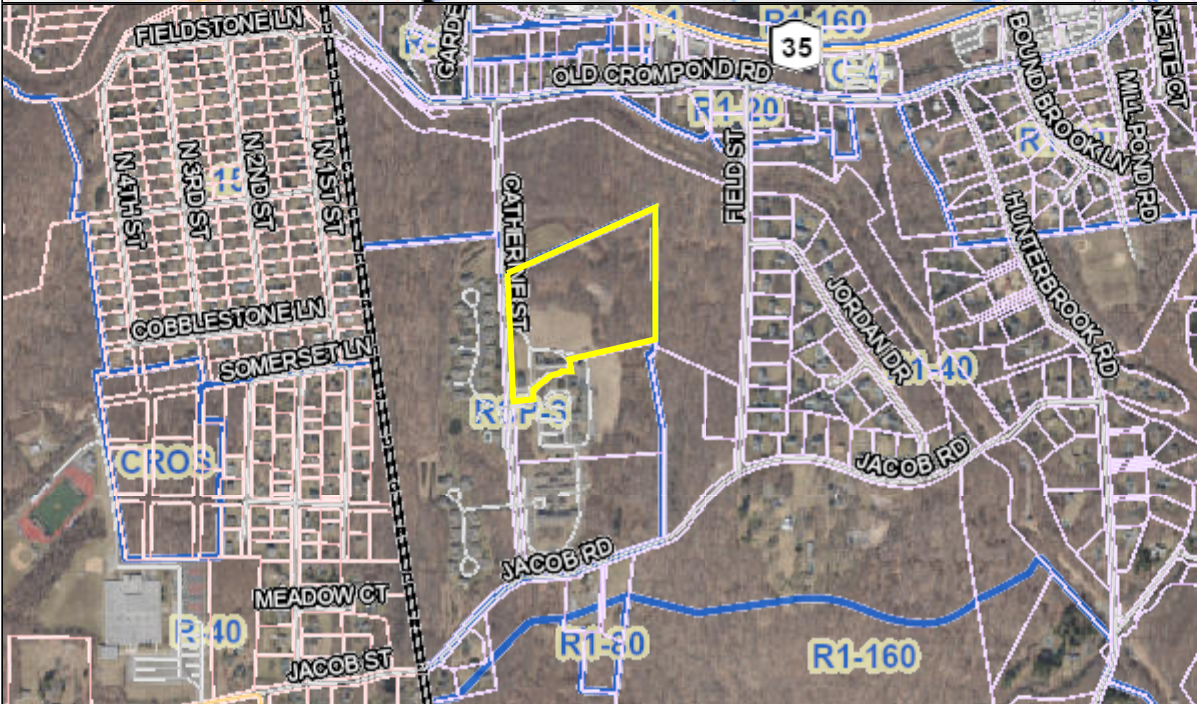
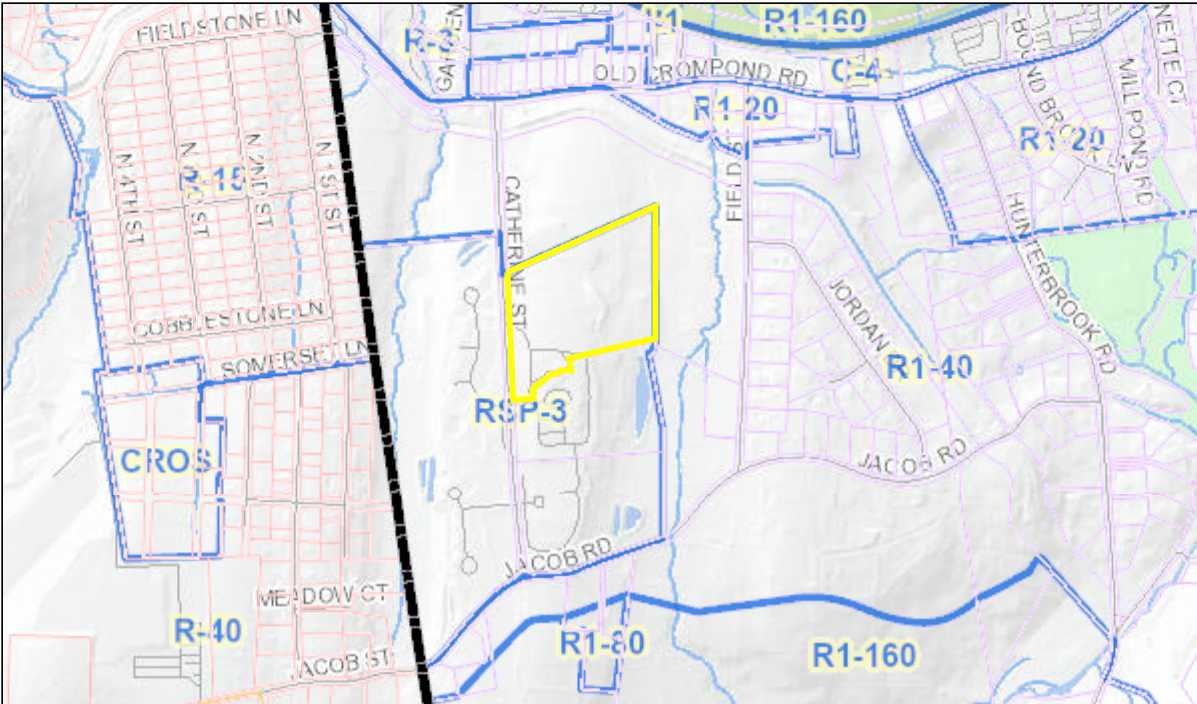
This Local Law shall take effect immediately upon filing with the Secretary of State.

Tax Parcel Maps

Address: 2302 CATHERINE ST

Print Key: 35.12-1-2

SBL: 03501200010020000000



Disclaimer:

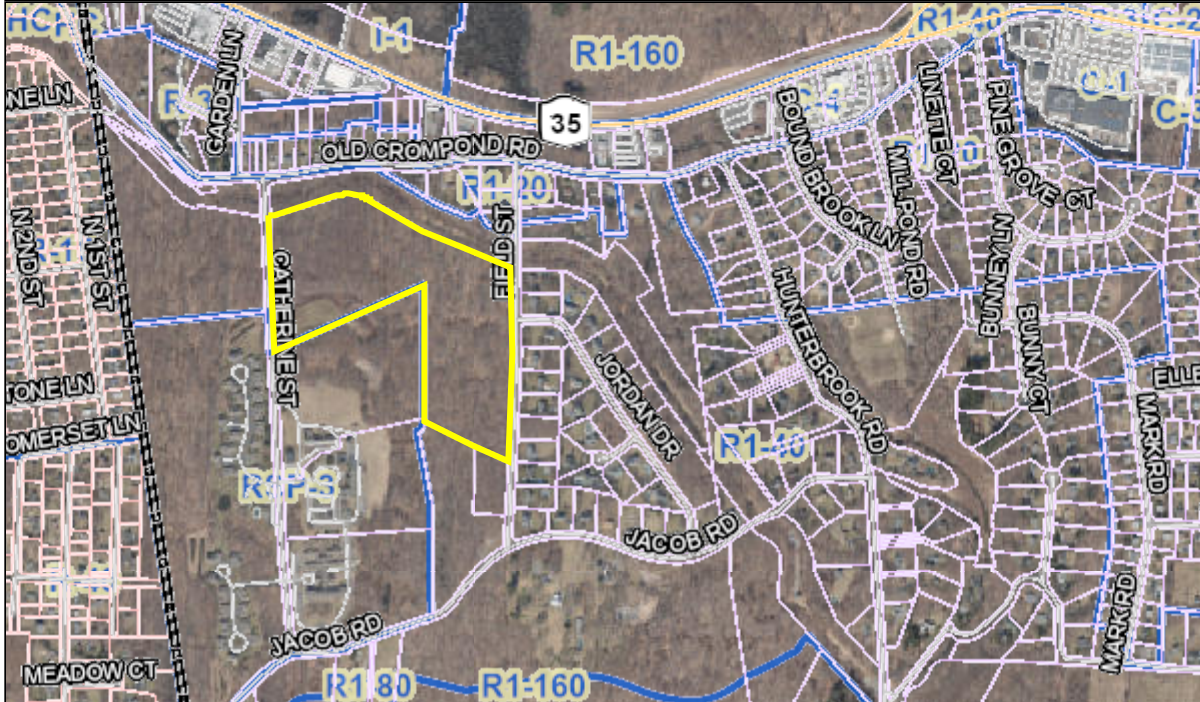
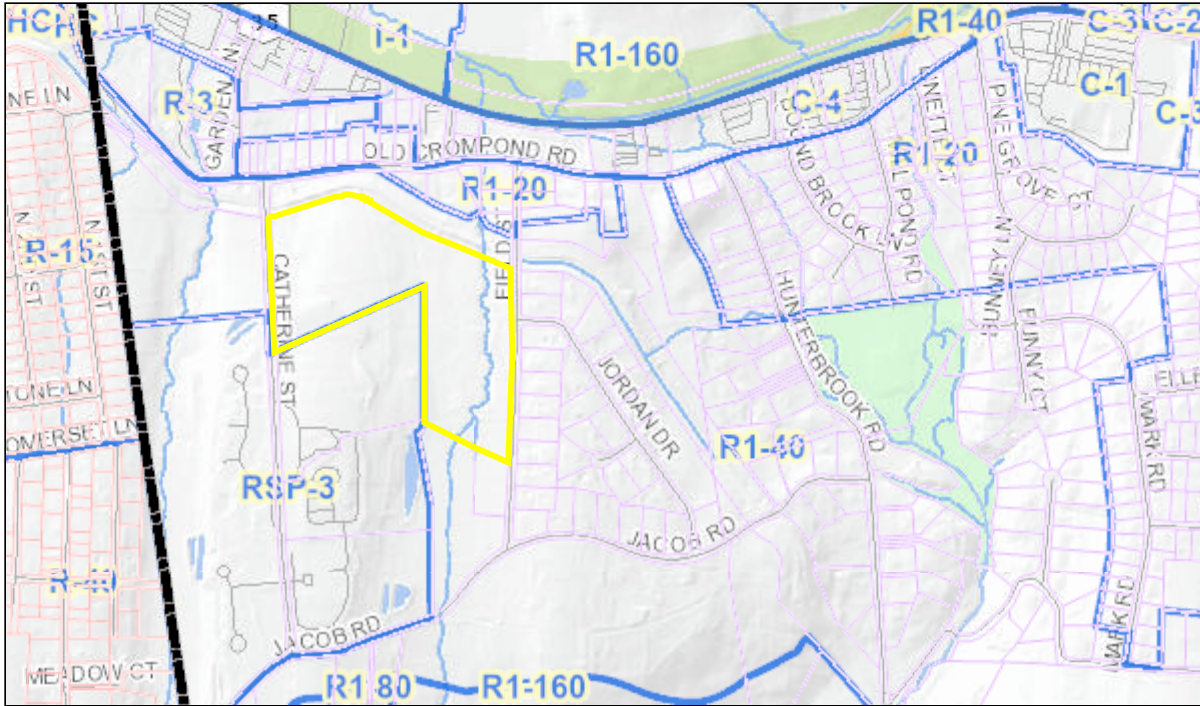
This tax parcel map is provided as a public service to Westchester County residents for general information and planning purposes only, and should not be relied upon as a sole informational source. The County of Westchester hereby disclaims any liability from the use of this GIS mapping system by any person or entity. Tax parcel boundaries represent approximate property line location and should **NOT** be interpreted as or used in lieu of a survey or property boundary description. Property descriptions must be obtained from surveys or deeds. For more information please contact the assessor's office of the municipality.

Tax Parcel Maps

Address: 2448 CATHERINE ST

Print Key: 35.08-1-45

SBL: 0350080001045000000



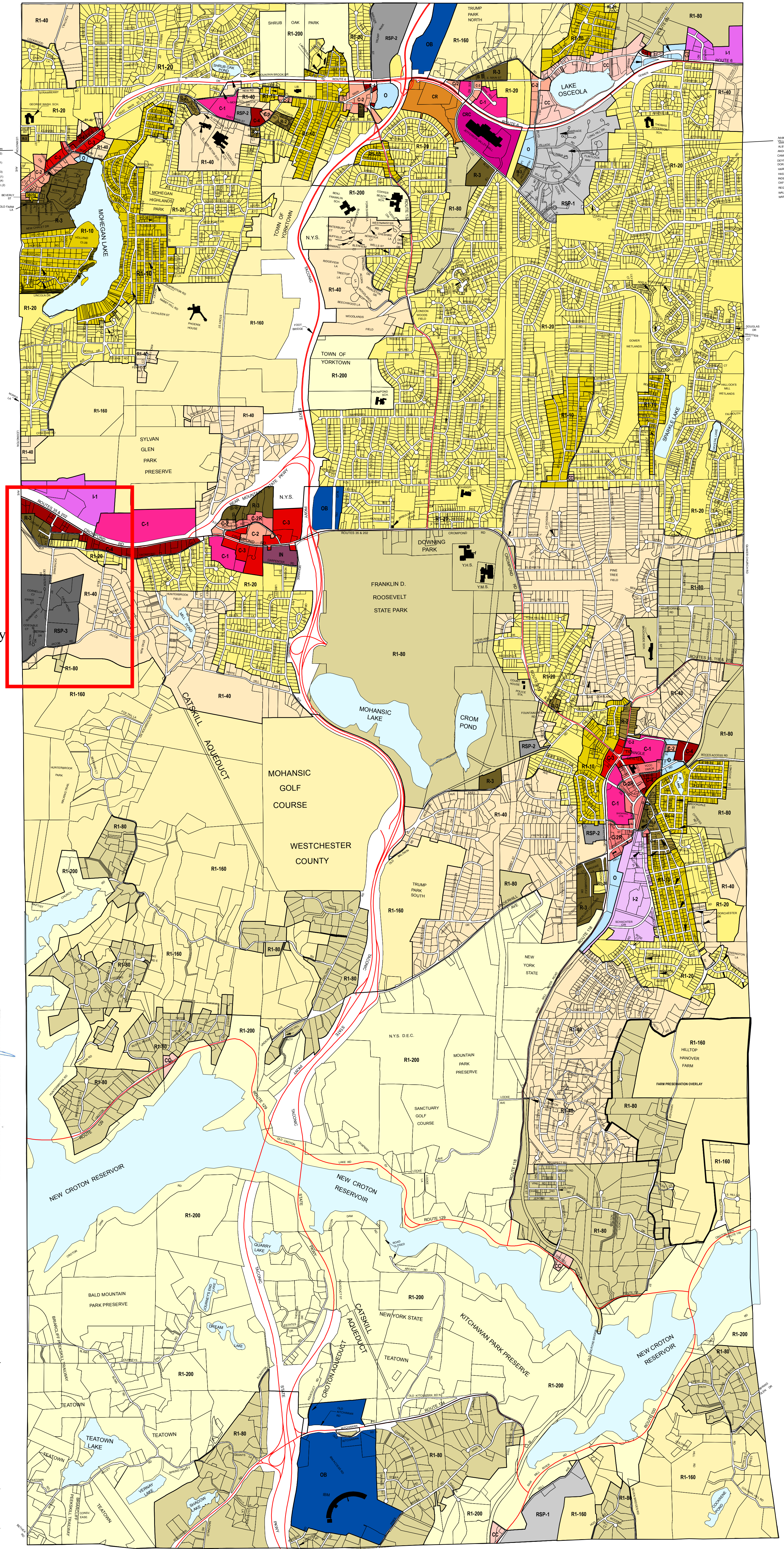
Disclaimer:

This tax parcel map is provided as a public service to Westchester County residents for general information and planning purposes only, and should not be relied upon as a sole informational source. The County of Westchester hereby disclaims any liability from the use of this GIS mapping system by any person or entity. Tax parcel boundaries represent approximate property line location and should **NOT** be interpreted as or used in lieu of a survey or property boundary description. Property descriptions must be obtained from surveys or deeds. For more information please contact the assessor's office of the municipality.

Town of Yorktown, NY OFFICIAL ZONING MAP

Zoning Districts

- R1-200 One-Family Residential
- R1-160 One-Family Residential
- R1-80 One-Family Residential
- R1-40 One-Family Residential
- R1-20 One-Family Residential
- R1-10 One-Family Residential
- R-2 Two-Family Residential
- R-3 Multifamily Residential
- RSP-1 Age-Oriented Community
- RSP-2 Senior Citizens District
- RSP-3 Age-Oriented Geriatric Community
- CRC Commercial Regional Center
- C-1 Commercial Shopping Center
- C-2 Commercial Hamlet Center
- C-2R Commercial Hamlet Center
- CR Commercial Recreation
- C-3 Commercial Limited
- C-4 Commercial General
- CC Country Commercial
- OB Research Laboratory and Office
- O Office
- I-1 Light Industrial Park
- I-2 Planned Light Industry
- IN Planned Interchange



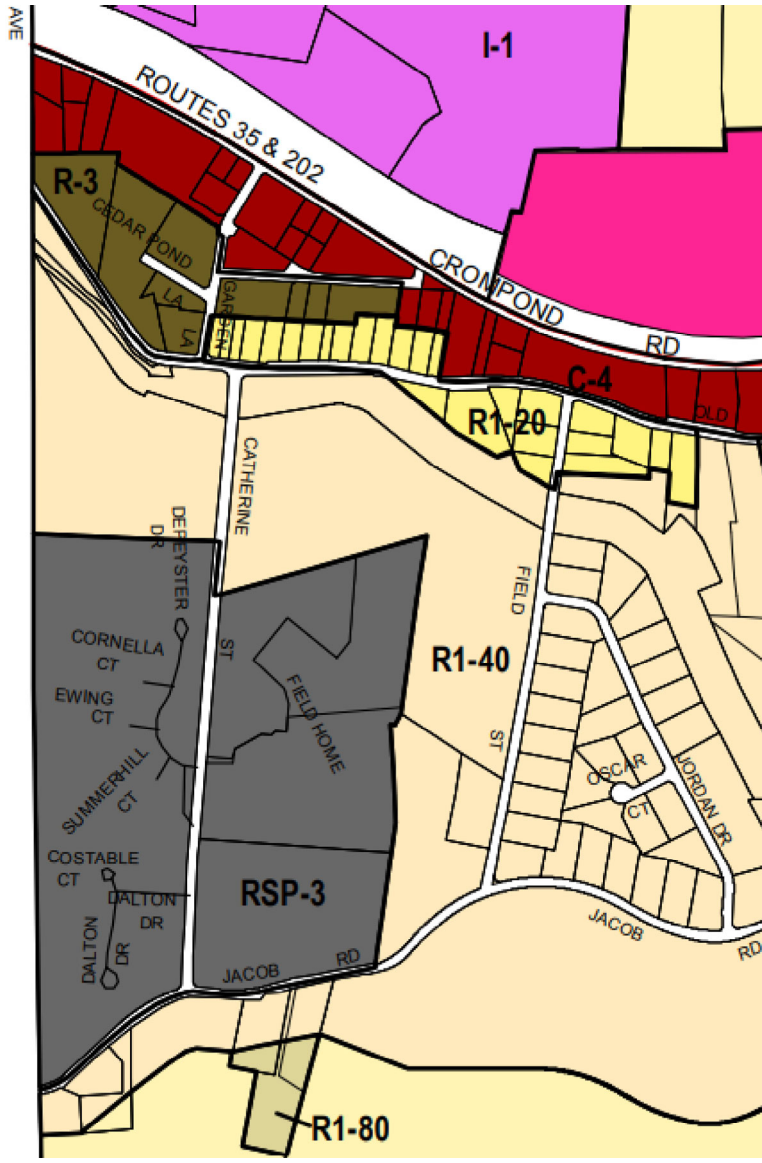
APPROVED BY TOWN BOARD
 DATE: March 26, 2019
 SUPERVISOR: [Signature]
 BOARD MEMBERS: [Signatures]
 TOWN CLERK: Diana L. Quast

THIS MAP WAS PREPARED BY THE DEPARTMENT OF PLANNING AND SHOWS THE ZONING DISTRICTS MAPPED AS OF JANUARY 15, 2019.
 THE STREET SYSTEM WAS TAKEN FROM THE "16TH AMENDED STREET NAMING AND PROPERTY NUMBERING MAP" ADOPTED FEBRUARY 17, 2009.
 THIS MAP SHOULD ONLY BE USED FOR REFERENCE PURPOSES. FOR EXACT DETERMINATION OF DISTRICT BOUNDARIES, PLEASE CONSULT THE BUILDING OFFICIAL.
 FOR AREAS DEVELOPED UNDER NYS TOWN LAW SECTION §278: SUBDIVISION REVIEW; APPROVAL OF CLUSTER DEVELOPMENT [FORMERLY SECTION §281], PLEASE CONSULT THE PLANNING DEPARTMENT.
 FOR AREAS DEVELOPED UNDER TOWN CODE ARTICLE XVII: TRANSITIONAL ZONE, PLEASE CONSULT THE PLANNING DEPARTMENT.

0 1/8 1/4 1/2 Miles
 0 800 1,600 3,200 4,800 6,400 Feet
 1 inch = 1,600 feet

TOWN OF YORKTOWN
 363 Underhill Avenue, Yorktown Heights, NY 10598
 Phone: (914) 962-5722, Website: www.yorktownny.org

F:\ArcGIS\Projects\Zoning Map\OfficialZoningMap-RevNov2018.mxd



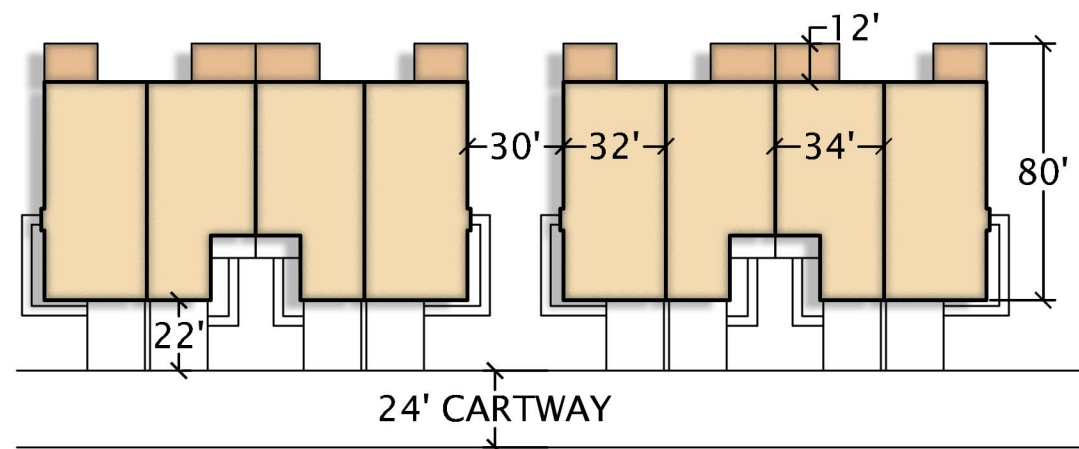
PROPERTY DATA:

| | |
|-------------------------|------------|
| TOTAL SITE AREA: | ± 50.51 AC |
| SUBDIVIDED PARCEL AREA: | ± 2.46 AC |
| WETLAND BUFFER AREA: | ± 9.91 AC |
| WETLAND AREA: | ± 1.59 AC |
| NET DEVELOPABLE AREA: | ± 36.55 AC |

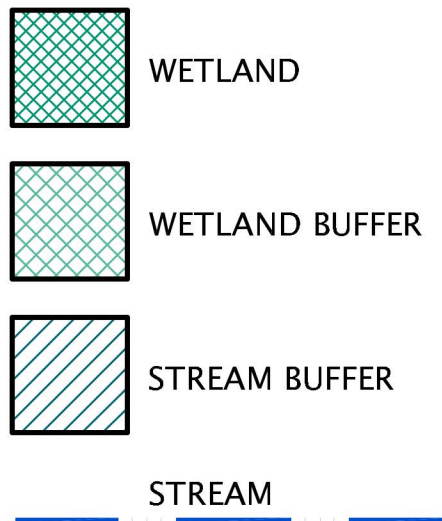
ZONING REQUIREMENTS: (RSP-2 DISTRICT)

| BULK REQUIREMENTS | REQUIRED | PROPOSED |
|--------------------------|----------|----------|
| MAX. DENSITY: | 159 DU | 118 DU |
| F.A.R.: | .35 | .22 |
| MIN. SITE AREA: | 5 AC | 50.51 AC |
| MIN. LOT WIDTH: | 150 FT | 1500 FT |
| MIN. LOT DEPTH: | 150 FT | +150 FT |
| MIN. FRONT SETBACK: | 50 FT | 50 FT |
| MIN. SIDE SETBACK: | 50 FT | 50 FT |
| MIN. REAR SETBACK: | 50 FT | 50 FT |
| MIN. FLOOR AREA: | 550 SF | 1,850 SF |
| MAX. BUILDING HEIGHT: | 45 FT | ±38FT |
| MIN. OFF-STREET PARKING: | .5 SP/DU | 2 SP/DU |

TYPICAL LOT

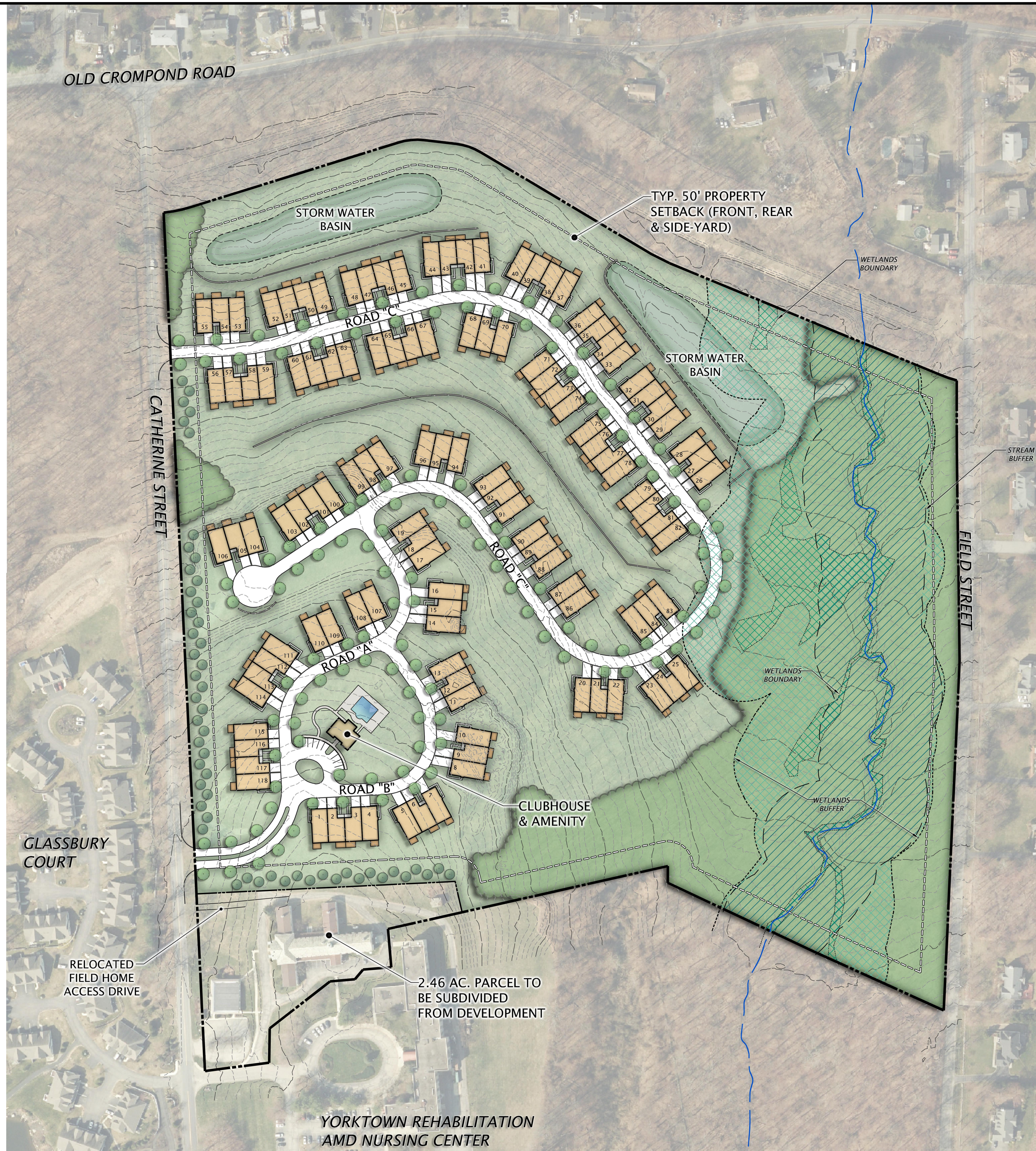


LEGEND:

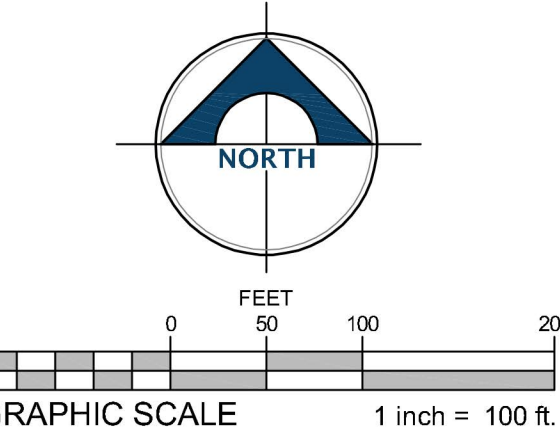


SOURCES:

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3. TOPOGRAPHIC & WETLAND INFORMATION TAKEN FROM TOPOGRAPHIC SURVEY PREPARED BY WARD CARPENTER ENGINEERS, INC., PLAN DATED JANUARY 31, 2022.



SITE PLAN
118 CARRIAGE HOMES
FIELD HOME
YORKTOWN, WESTCHESTER CO., NY



PLAN SUMMARY:

(118) CARRIAGE HOMES
(118) TOTAL HOMES

±16 ACRES OPEN SPACE
(NOT INCLUDING BASINS)

SITE DATA:

ADDRESS: 2300 CATHERINE STREET,
YORKTOWN, NEW YORK

PARCEL(S): SEC. 35.12 BLOCK 1 LOT 2
SEC. 35.08 BLOCK 1 LOT 45

SITE AREA: ± 50.51 ACRES
CURRENT ZONING: RSP-3/R1-40

PROPOSED ZONING: REZONE TO RSP-2
(PROPOSED TOWN HOMES)

OFFICE DATA:

PROJECT NUMBER: 8274
DATE: 2022.11.08
SCALE: 1"=100'
DRAWN BY: JTB



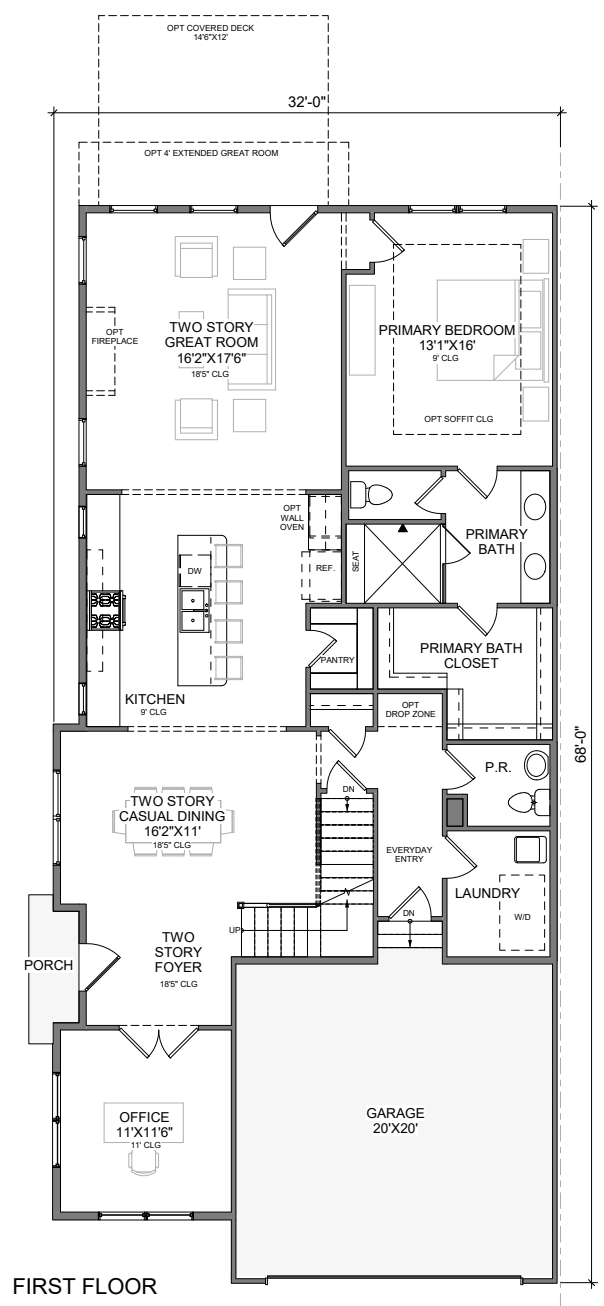
**Reference only. Renderings are indicative of materiality, color, style, and design intent. Architecture subject to change.

FIELD HOME

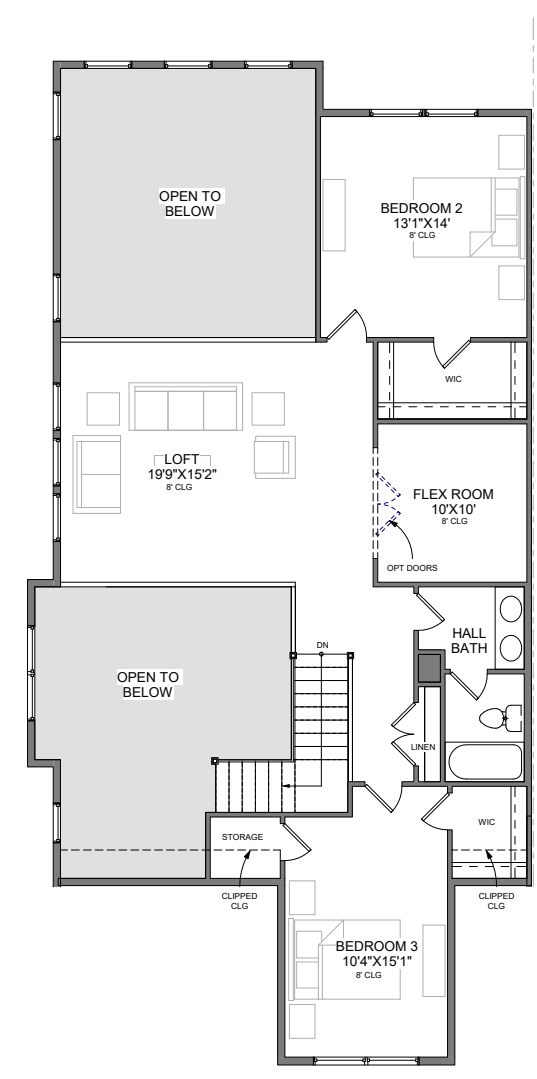


FRONT ELEVATIONS

CONCEPTUAL ARCHITECTURE



FIRST FLOOR



SECOND FLOOR



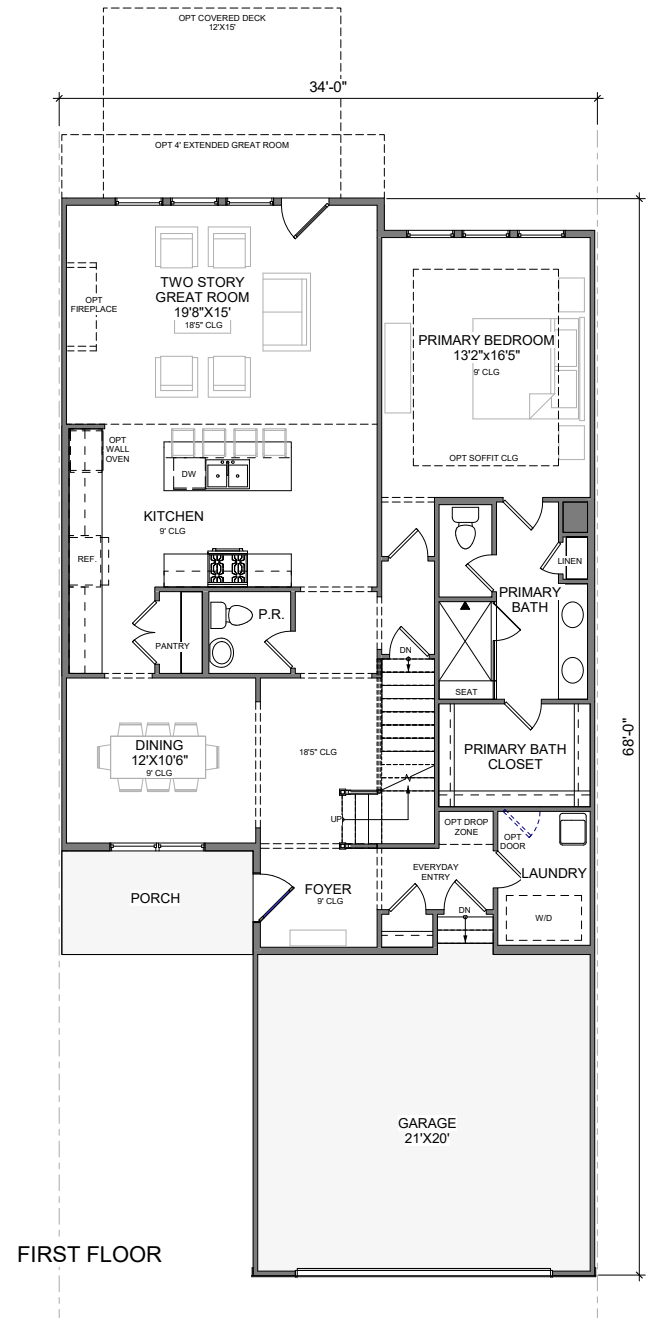
FIELD HOME



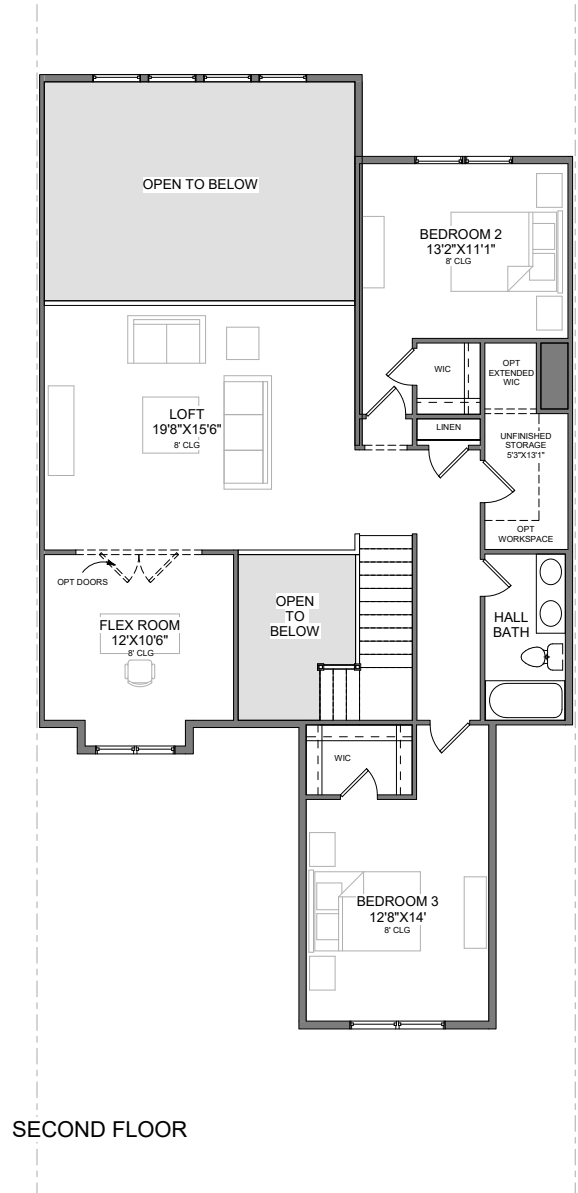
PLAN #1

FLOOR PLAN CONCEPTS

+/- 2,728 SQFT



FIRST FLOOR



SECOND FLOOR

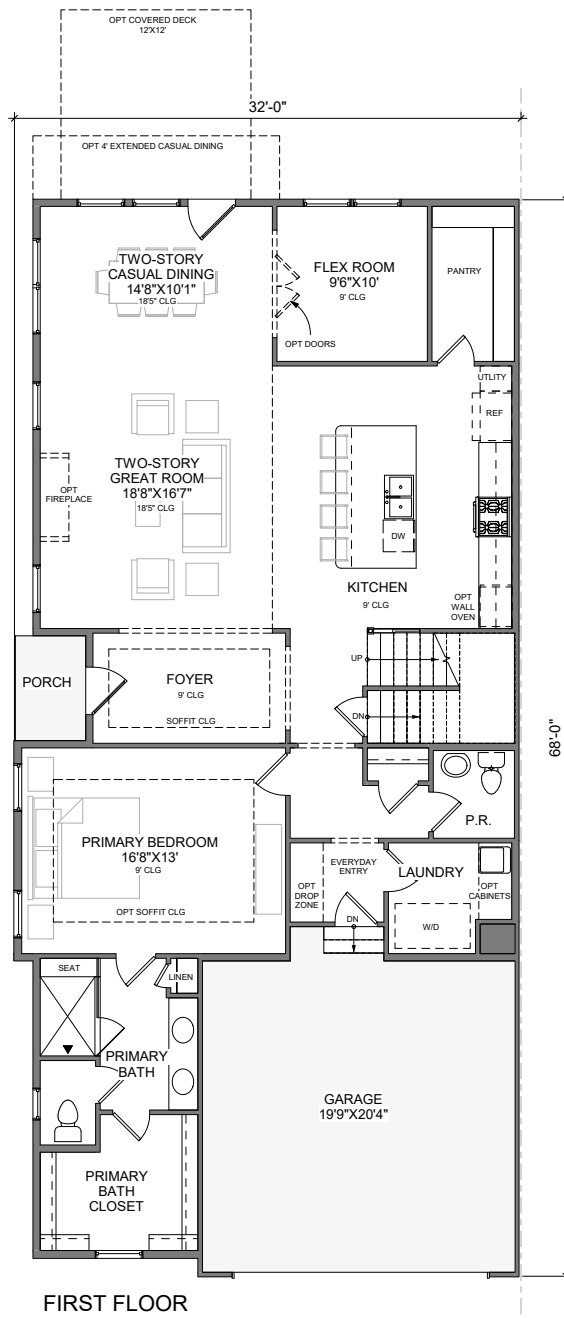


FIELD HOME

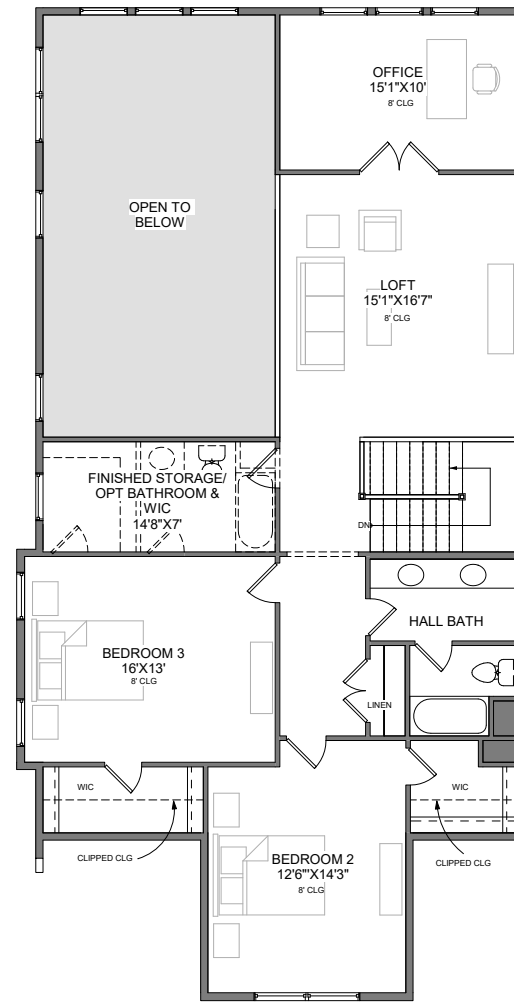
□ PLAN #2

FLOOR PLAN CONCEPTS

+/- 2,604 SQFT



FIRST FLOOR



SECOND FLOOR



FIELD HOME



PLAN #3

FLOOR PLAN CONCEPTS

+/- 2,967 SQFT



PLAN #1
+/- 24'-9" TO MIDPOINT OF ROOF



PLAN #2
+/- 24'-3" TO MIDPOINT OF ROOF



PLAN #3
+/- 25'-0" TO MIDPOINT OF ROOF

**Massing and approximate building heights to show compliance only.

FIELD HOME



BUILDING HEIGHTS

ZONING ANALYSIS







Traffic Impact Study

October 19, 2022

Proposed Active Adult Residential Development
2300 Catherine Street
Town of Yorktown, Westchester County, New York

Prepared for:

Toll Brothers, Inc.
42 Old Ridgebury Road
Danbury, CT 06810

Prepared by:


Philip J. Grealy, Ph.D., P.E.
Geographic Discipline Leader
New York Professional Engineer
License No. 59858

Colliers Engineering & Design
400 Columbus Avenue
Suite 180E
Valhalla New York 10595
Main: 877 627 3772
Colliersengineering.com

Project No. 21006314A

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I. Introduction

A. Project Description and Location

(Figure No. 1)

This report has been prepared to evaluate the potential traffic impacts associated with the proposed 120 dwelling unit active adult residential development (“the Project”), which is planned to be developed on the property located at 2300 Catherine Street in the Town of Yorktown, Westchester County, New York. The site is proposed with two (2) access connections via Catherine Street.

A Design Year of 2026 has been utilized in completing the traffic analysis in order to evaluate future traffic conditions associated with this proposed development.

B. Scope of Study

This study has been prepared to identify current and future traffic operating conditions on the surrounding roadway network and to assess the potential traffic impacts of the Project.

All available traffic count data for the study area intersections were obtained from previous reports prepared by our office. These data were supplemented with new traffic counts collected by representatives of Colliers Engineering & Design CT, P.C. These data were also compared to count data obtained from the New York State Department of Transportation (NYSDOT). Together these data were utilized to establish the Year 2022 Existing Traffic Volumes representing existing traffic conditions in the vicinity of the site.

The Year 2022 Existing Traffic Volumes were then projected to the 2026 Design Year to take into account background traffic growth. In addition, traffic for other specific potential or approved developments in the area were estimated and then added to the Projected Traffic Volumes to obtain the Year 2026 No-Build Traffic Volumes.

Estimates were then made of the potential traffic that the proposed development would generate during each of the peak hours (see Section III-C for further discussion). The resulting site generated traffic volumes were then added to the roadway system and combined with the Year 2026 No-Build Traffic Volumes resulting in the Year 2026 Build Traffic Volumes.

The Existing, No-Build and Build Traffic Volumes were then compared to roadway capacities based on the procedures from the Highway Capacity Manual to determine existing and future Levels of Service and operating conditions. Recommendations for improvements were made where necessary to serve the existing and/or future traffic volumes.

II. Existing Roadway and Traffic Descriptions

A. Description of Existing Roadways

As shown on Figure No. 1, the proposed residential development will be accessed from Catherine Street via two access drives. The following is a brief description of the roadways located within the study area. In addition, Section III-F provides a further description of the existing geometrics, traffic control and a summary of the existing and future Levels of Service and any recommended improvements for each of the study area intersections. Appendix "D" contains copies of the capacity analyses which indicate the existing geometrics (including lane widths) and other characteristics for each of the individual intersections studied.

1. NYS Route 35/U.S. Route 202 (Crompond Road)

NYS Route 35/U.S. Route 202 in this vicinity is generally a two-lane roadway with separate turning lanes at various intersections and is under the jurisdiction of the NYSDOT. NYS Route 35/U.S. Route 202 serves as a major east/west roadway, which in Westchester County extends from Peekskill to the west through the Town of Cortlandt, the Town of Yorktown, and the Town of Somers to the east. In the vicinity of the study area, this roadway intersects with Garden Lane, Old Crompond Road, and Pine Grove Court. The posted speed limit, in the vicinity of the site, is 45 MPH. The roadway in this area is in good condition. On-street parking is not permitted along NYS Route 35/U.S. Route 202. Also, with the exception of the sections to the east near the Chase Bank/Staples Plaza and other commercial facilities where the roadway has been improved and consists of five lanes (two lanes per direction plus a separate left turn lane), there are currently no other existing sidewalks along NYS Route 35/U.S. Route 202.

2. Catherine Street

Catherine Street is a town roadway that travels in a north/south direction between unsignalized intersections with Old Crompond Road and Jacob Road. The roadway will provide access to the 2300 Catherine Street property at two unsignalized, full movement intersections to be located north of the Glassbury Court Active Adult Housing Development (Depeyster Drive). Catherine Street has a double yellow centerline with no shoulders present and a posted speed limit of 30 MPH.

3. Jacob Road

Jacob Road is a town roadway that travels in a generally east/west direction between an unsignalized intersection with Croton Avenue and Hunterbrook Road. The roadway generally serves residential land uses and intersects with several other local roadways including Catherine Street and Field Street. It has no edge line (fog line) and lacks centerline striping. It has a posted speed limit of 30 mph.

4. Old Crompond Road

Old Crompond Road is a town roadway that originates at an unsignalized intersection with NYS Route 35/U.S. Route 202 immediately west of Lexington Avenue. The roadway traverses to the east, serving residential land uses and providing access to other local roads including Catherine Street. The roadway terminates at an unsignalized intersection with Pine Grove Court approximately 150 ft. south of NYS Route 35/U.S. Route 202. Old Crompond Road consists of one lane in each direction with a double yellow centerline and has a posted speed limit of 30 MPH.

5. Garden Lane

Garden Lane is partially a private road and partially a Town road that traverses in a north/south direction between Crompond Road (Route 35/202) and Old Crompond Road. The northern portion of Garden Lane has a width of approximately 24 ft. while the width varies from as little as 18 ft. to 32 ft. The Town roadway portion, which starts at Old Crompond Road and continues approximately 450 ft. north, serves residential land uses. The northerly portion, which continues to the Route 202/35 intersection, has access to the New City Diner and a car dealership. Arthur Lane also has access to Garden Lane. Garden Lane currently has no center line striping and no stop control at the Old Crompond Road intersection.

B. 2022 Existing Traffic Volumes

(Figures No. 2 and 3)

Manual traffic counts were collected by representatives of Colliers Engineering & Design CT, P.C. on May 18 and 19, 2022 for the AM and PM Peak Hours to determine the existing traffic volume conditions at the study area intersections. These traffic counts were then compared to traffic volume data from previous traffic studies conducted by our office and to traffic volume data available from the New York State Department of Transportation (NYSDOT) for the U.S. Route 202 corridor. In the case where either the recent or historical counts were higher, the higher volumes were accounted for herein. Based on this information, the Year 2022 Existing Traffic Volumes were established for the Weekday Peak AM and Weekday Peak PM Hours at the following study area intersections.

- U.S. Route 202 (Crompond Road) and Garden Lane
- Catherine Street and Depeyster Drive
- Catherine Street and Jacob Road
- Catherine Street and Old Crompond Road
- Garden Lane and Old Crompond Road

Based upon a review of the traffic counts, the peak hours were generally identified as follows:

- | | |
|------------------------|-------------------|
| ▪ Weekday Peak AM Hour | 7:30 AM – 8:30 AM |
| ▪ Weekday Peak PM Hour | 5:00 PM – 6:00 PM |

The resulting Year 2022 Existing Traffic Volumes are shown on Figures No. 2 and 3 for the Weekday Peak AM Hour and Weekday Peak PM Hour, respectively.

III. Evaluation of Future Traffic Conditions

A. 2026 No-Build Traffic Volumes

(Figure No. 4 and 5)

The Year 2022 Existing Traffic Volumes were increased by a growth factor of 2% per year to account for general background growth resulting in the Year 2026 No-Build Traffic Volumes which are shown on Figures No. 4 and 5 for each of the Peak Hours, which accounts for traffic from other developments in the area including Trader Joe's and the previously approved CVS opposite the Chase Bank.

B. Site Generated Traffic Volumes

(Tables No. 1 and 1A)

Estimates of the amount of traffic to be generated by the proposed development during each of the peak hours were developed based on information published by the Institute of Transportation Engineers (ITE) as contained in the report entitled "Trip Generation", 11th Edition, 2021, based on Land Use Category – 215 Townhouse and they were also compared with the rates for Land Use Category 251 – Senior Adult Housing. Table No. 1 summarizes the trip generation rates and corresponding site generated traffic volumes for the Weekday Peak AM and Weekday Peak PM Hours based on Land Use Category 215 and Table No. 1A based on Land Use Category 251. The volumes shown in Table No. 1 were used to provide a more conservative analysis.

C. Arrival/Departure Distribution

(Figures No. 6 and 7)

It was necessary to establish arrival and departure distributions to assign the site generated traffic volumes to the surrounding roadway network. Based on a review of the Existing Traffic Volumes and the expected travel patterns on the surrounding roadway network, the distributions were identified. The anticipated arrival and departure distributions are shown on Figures No. 6 and 7, respectively.

D. 2026 Build Conditions Traffic Volumes

(Figures No. 8 through 11)

The site generated traffic volumes were assigned to the roadway network based on the arrival and departure distributions referenced above. The resulting site generated traffic volumes for each of the study area intersections are shown on Figures No. 8 and 9 for each of the peak hours, respectively. The site generated traffic volumes were then added to the Year 2026 No-Build Traffic Volumes to obtain the Year 2026 Build Traffic Volumes. The resulting Year 2026 Build Traffic Volumes are shown on Figures No. 10 and 11 for the Weekday Peak AM and Weekday Peak PM Hours, respectively.

E. Description of Analysis Procedures

It was necessary to perform capacity analyses in order to determine existing and future traffic operating conditions at the study area intersections. The following is a brief description of the analysis method utilized in this report:

1. Signalized Intersection Capacity Analysis

The capacity analysis for a signalized intersection was performed in accordance with the procedures described in the Highway Capacity Manual, 6th Edition, dated 2016, published by the Transportation Research Board. The terminology used in identifying traffic flow conditions is Levels of Service. A Level of Service "A" represents the best condition and a Level of Service "F" represents the worst condition. A Level of Service "C" is generally used as a design standard while a Level of Service "D" is acceptable during peak periods. A Level of Service "E" represents an operation near capacity. In order to identify an intersection's Level of Service, the average amount of vehicle delay is computed for each approach to the intersection as well as for the overall intersection.

2. Unsignalized Intersection Capacity Analysis

The unsignalized intersection capacity analysis method utilized in this report was also performed in accordance with the procedures described in the Highway Capacity Manual, 6th Edition, dated 2016. The procedure is based on total elapsed time from when a vehicle stops at the end of the queue until the vehicle departs from the stop line. The average total delay for any particular critical movement is a function of the service rate or capacity of the approach and the degree of saturation. In order to identify the Level of Service, the average amount of vehicle delay is computed for each critical movement to the intersection.

Additional information concerning signalized and unsignalized Levels of Service can be found in Appendix "C" of this report.

F. Results of Analysis

(Table No. 2)

Capacity analyses which take into consideration appropriate truck percentages, pedestrian activity, roadway grades and other factors were performed at the study area intersections utilizing the procedures described above to determine the Levels of Service and average vehicle delays. Summarized below are a description of the existing geometrics, traffic control and a summary of the existing and future Levels of Service as well as any recommended improvements.

Table No. 2 summarizes the results of the capacity analysis for the 2022 Existing, 2026 No-Build and 2026 Build Conditions. Appendix "D" contains copies of the capacity analysis which also indicate the existing geometrics (including lane widths) and other characteristics for each of the individual intersections studied.

1. U.S. Route 202 (Crompond Road) and Garden Lane

Garden Lane intersects with Crompond Road at a "T" shaped, unsignalized, uncontrolled intersection. Each of the approaches to the intersection consists of a single lane with Crompond Road having a double yellow centerline.

Capacity analysis was conducted for this intersection utilizing the 2022 Existing Traffic Volumes. The analysis results indicate that the left turn exiting from Garden Lane at this intersection is currently operating at an overall Level of Service "D and E" during the AM and PM Peak Hours, respectively.

The capacity analysis was recomputed using the 2026 No-Build and Build Traffic volumes. These results indicate that the left turns exiting from this intersection are expected to experience Levels of Service "D/E and F" during the AM and PM Peak Hours respectively under future No-Build and Build conditions. A traffic signal would be required to improve these conditions. However, the NYSDOT traffic signal warrants are not satisfied for this location, and thus, we do not recommend signalization at this intersection at this time.

2. Catherine Street and Depeyster Drive

Catherine Street and Depeyster Drive intersect at a full movement unsignalized intersection. Depeyster Road is stop-sign controlled. Each of the approaches to the intersection consists of one lane.

Capacity analysis was conducted for this intersection utilizing the 2022 Existing Traffic Volumes. The analysis results indicate that the intersection is currently operating at an overall Level of Service "B" or better during the AM and PM Peak Hours.

The capacity analysis was recomputed using the 2026 No-Build and Build Traffic volumes. These results indicate that the intersection is expected to continue to experience Levels of Service "B" or better during the AM and PM Peak Hours under future conditions.

3. Catherine Street and Jacob Road

Catherine Street and Jacob Road intersect at "T" type unsignalized intersection with the Catherine Street approach being stop-sign controlled. Each of the approaches to the intersection consists of one lane.

Capacity analysis was conducted for this intersection utilizing the 2022 Existing Traffic Volumes. The analysis results indicate that the intersection is currently operating at an overall Level of Service "A" during the AM and PM Peak Hours.

The capacity analysis was recomputed using the 2026 No-Build and Build Traffic volumes. These results indicate that the intersection is expected to experience Levels of Service "B" or better during the AM and PM Peak Hours under future conditions.

4. Catherine Street and Old Crompond Road

Catherine Street and Old Crompond Road intersect at an unsignalized "T" shaped intersection. Each of the approaches to the intersection consists of one lane and the Catherine Street approach is stop-sign controlled.

Capacity analysis was conducted for this intersection utilizing the 2022 Existing Traffic Volumes. The analysis results indicate that the intersection is currently operating at an overall Level of Service "B" or better during the AM and PM Peak Hours.

The capacity analysis was recomputed using the 2026 No-Build and Build Traffic volumes. These results indicate that the intersection is expected to continue to experience Levels of Service "B" or better during the AM and PM Peak Hours under future conditions.

5. Garden Lane and Old Crompond Road

Garden Lane and Old Crompond Road intersection at a "T" shaped unsignalized intersection. Each approach consists of a single lane.

Capacity analysis was conducted for this intersection utilizing the 2022 Existing Traffic Volumes. The analysis results indicate that the intersection is currently operating at an overall Level of Service "B" or better during the AM and PM Peak Hours.

The capacity analysis was recomputed using the 2026 No-Build and Build Traffic volumes. These results indicate that the intersection is expected to continue to experience Levels of Service "B" or better during the AM and PM Peak Hours under future conditions.

6. Catherine Street and Existing Site Access

Catherine Street and the Existing Site Access intersected at a "T" type intersection with the site access being stop-sign controlled.

Capacity analysis was conducted for this intersection utilizing the 2022 Existing Traffic Volumes. The analysis results indicate that the intersection is currently operating at an overall Level of Service "A" during the AM and PM Peak Hours.

The capacity analysis was recomputed using the 2026 No-Build and Build Traffic volumes. These results indicate that the intersection is expected to continue to experience Levels of Service "A" during the AM and PM Peak Hours under future conditions.

G. Findings and Recommendations

1. Project Specific Findings

- a. Based on the results of the capacity analyses, the traffic generated by the project will not result in any significant changes in operations or Levels of Service at the surround intersections.

- b. As mentioned in Section 111.B of the report and shown in Table 1A, the trip generation associated with senior/age restricted housing is generally lower than non-age restricted.
- c. At the proposed site driveways, clearing of vegetation within the right-of-way and along site frontage should be completed to ensure adequate sight distances for entering and exiting vehicles.

2. Non-Project Related Findings and Recommendations

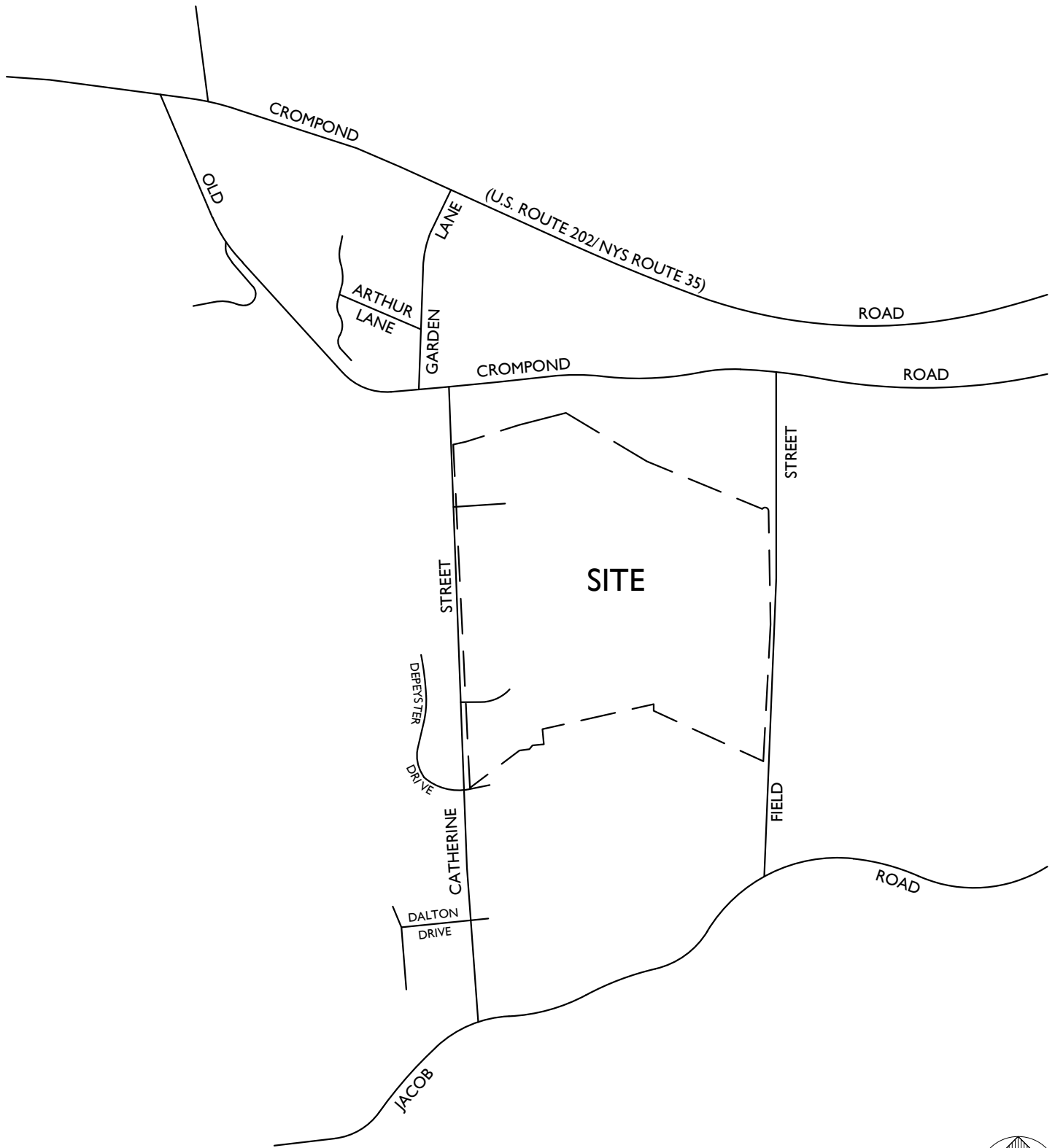
- a. At each of the intersections analyzed along Old Crompond Road and Catherine Street, some vegetative clearing and pruning will be required to ensure adequate sight distances are maintained.
- b. At the intersection Jacob Road and Catherine Street, in addition to the sight distance improvements, the installation of a double yellow centerline, solid white stop line, and a double yellow centerline along Jacob Road should be provided, again, regardless of the proposed project.
- c. At the intersection of Catherine Street and Old Crompond Road, a painted stop bar should be installed at the intersection.
- d. At the intersection of Garden Lane and Old Crompond Road, sight distances should be improved by clearing/pruning within the right-of-way looking both east and west. A painted "stop" line should also be provided on the Garden Lane approach.
- e. The intersection of Garden Lane and U.S. Route 202 was analyzed for potential signalization. Under current conditions, it was determined that the signal warrants are not satisfied.

IV. Summary and Conclusion

Based on the above analysis, similar Levels of Service and delays will be experienced at the area intersections under the future No-Build and future Build Conditions. Thus, the proposed active adult residential development traffic is not expected to cause any significant impact in overall operation.

Traffic Impact Study

Appendix A | Traffic Figures



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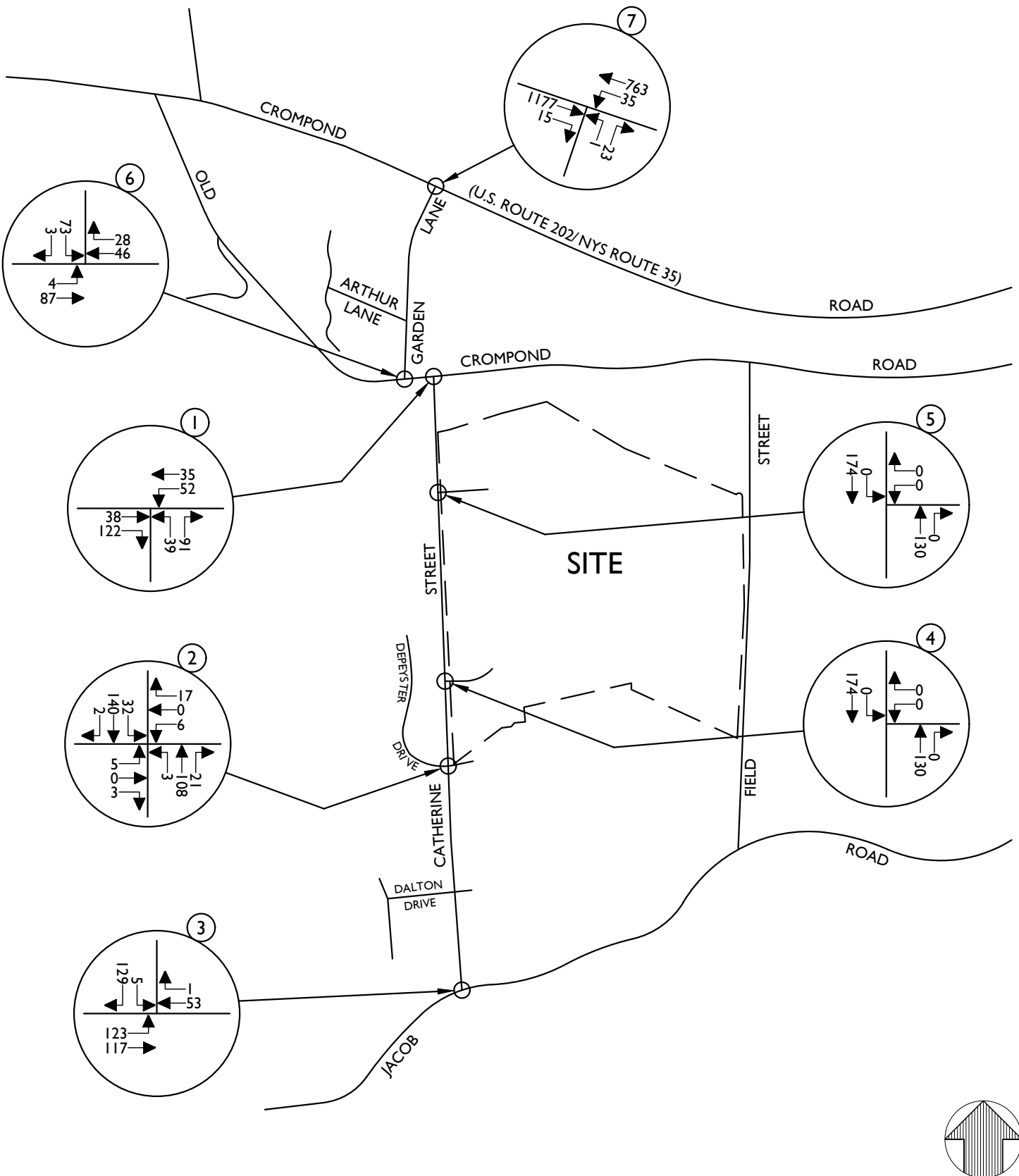
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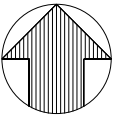
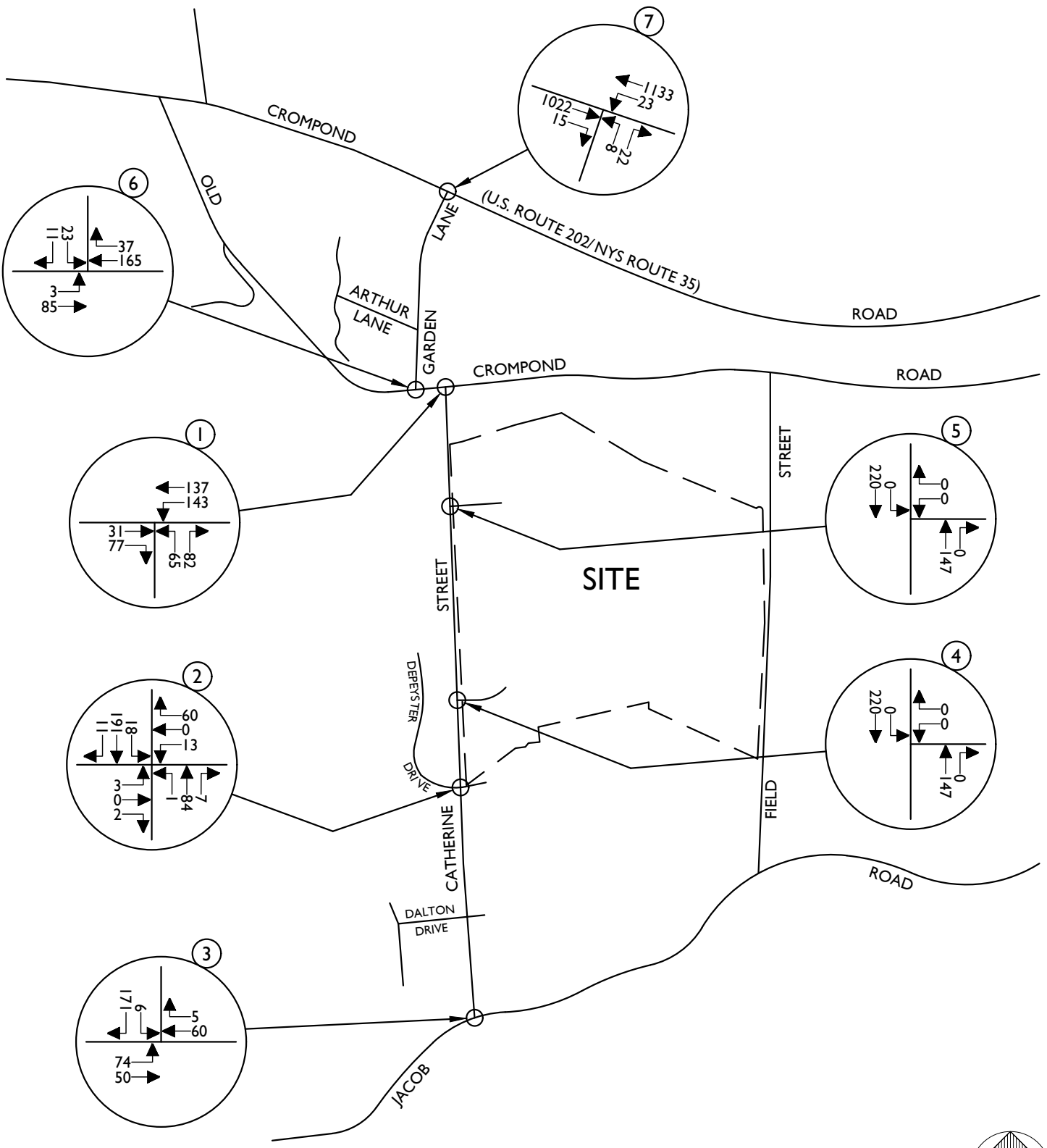
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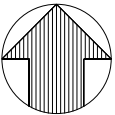
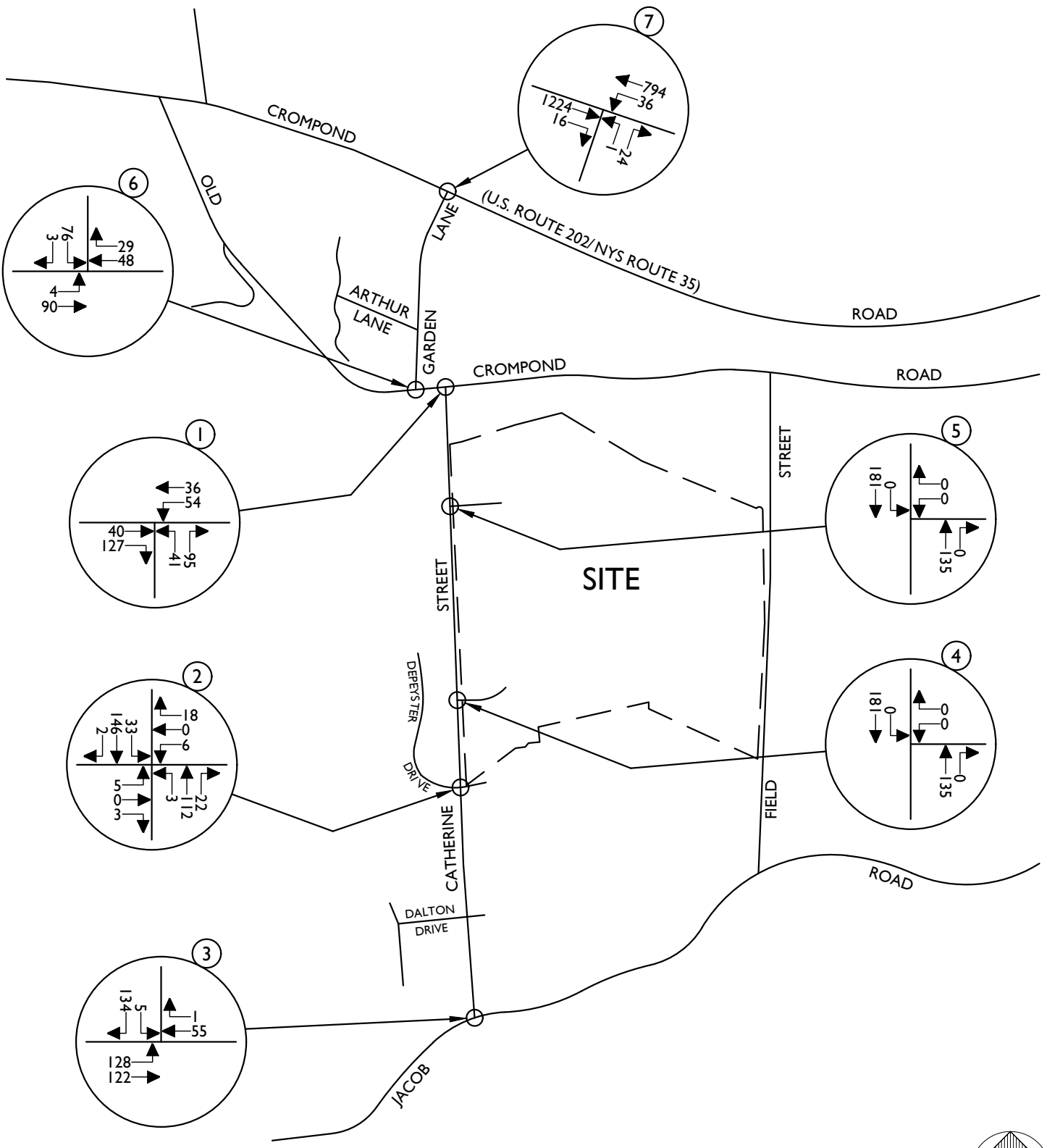
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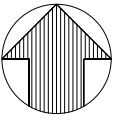
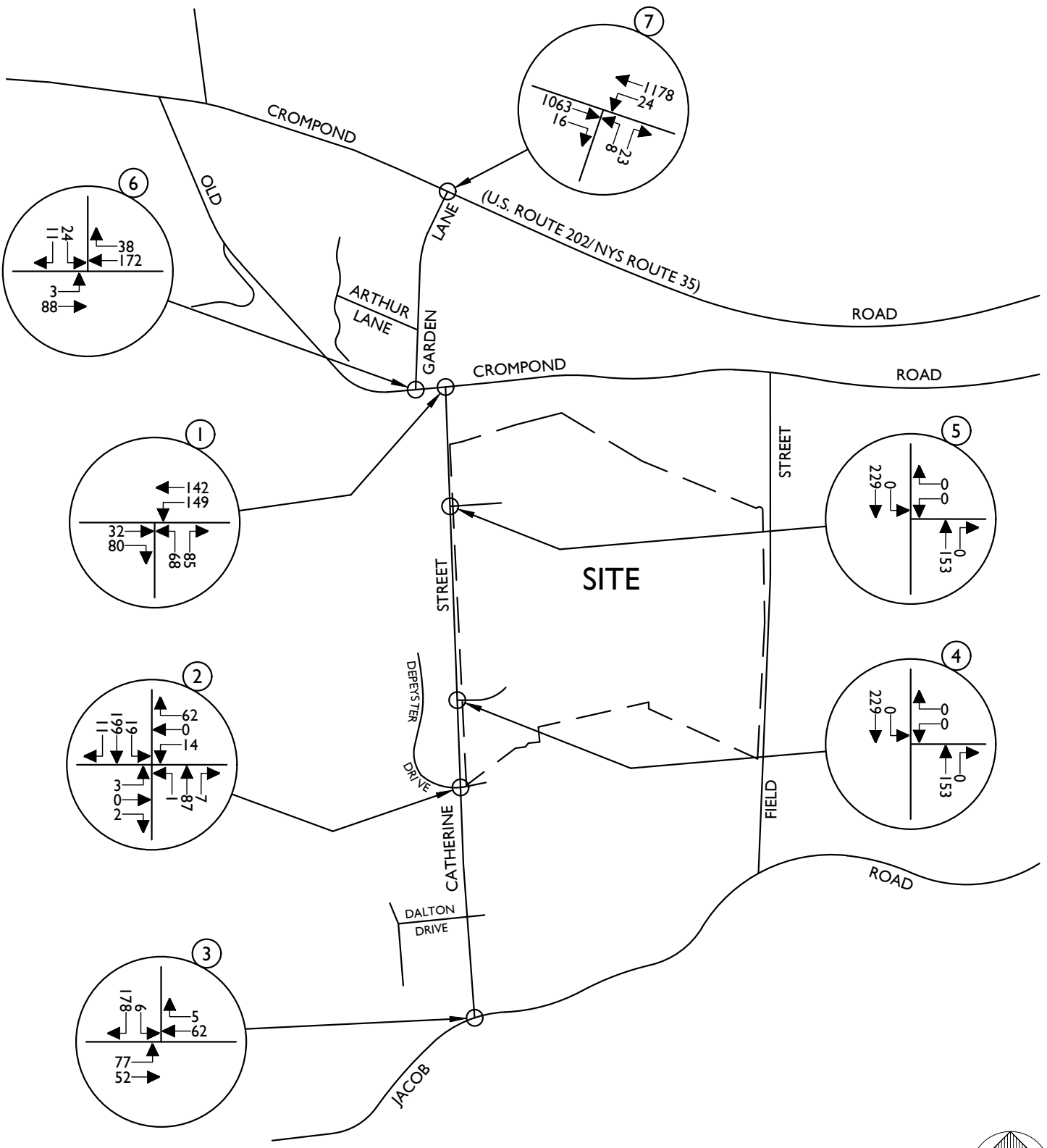
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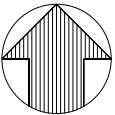
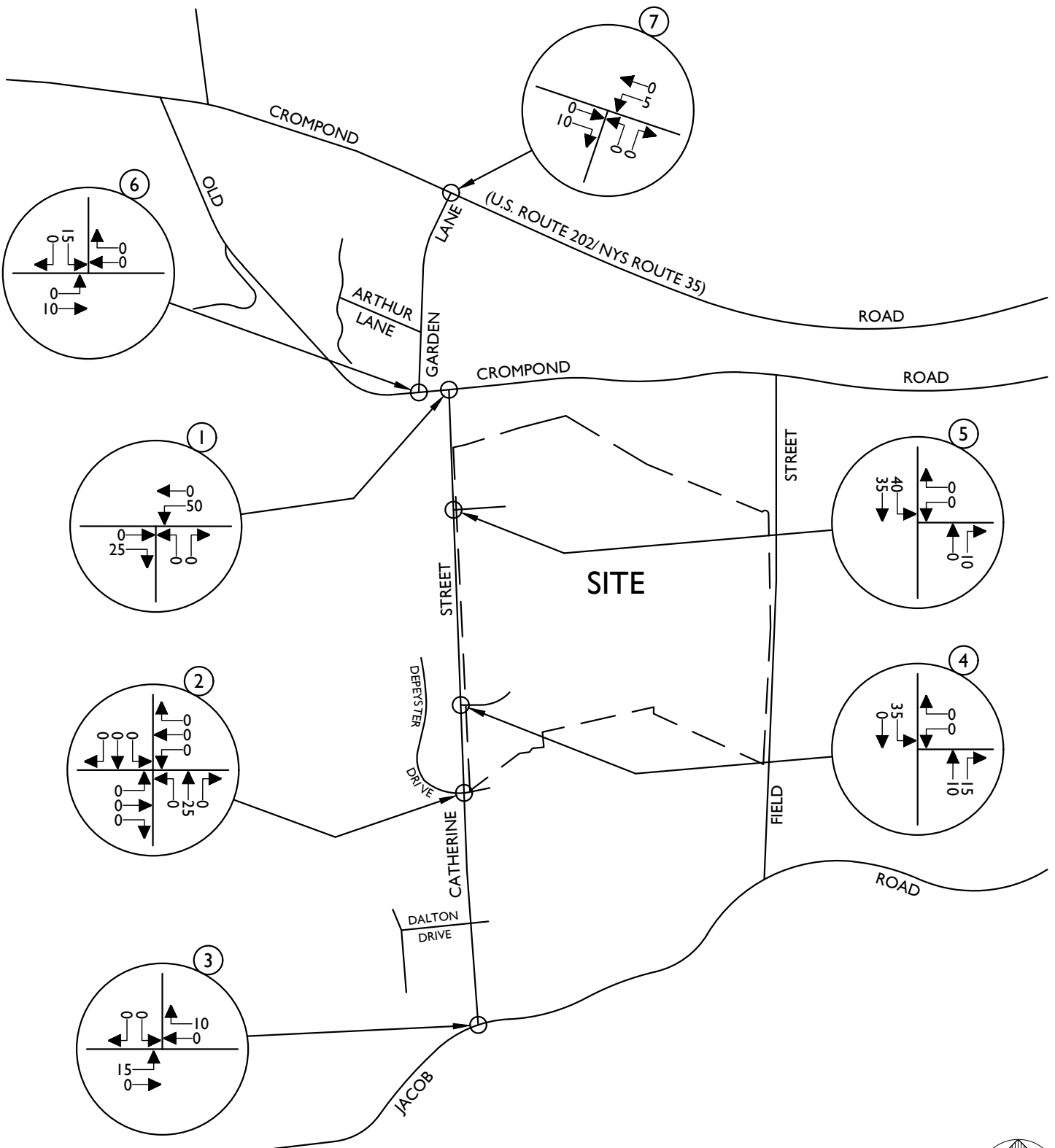
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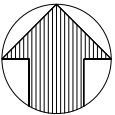
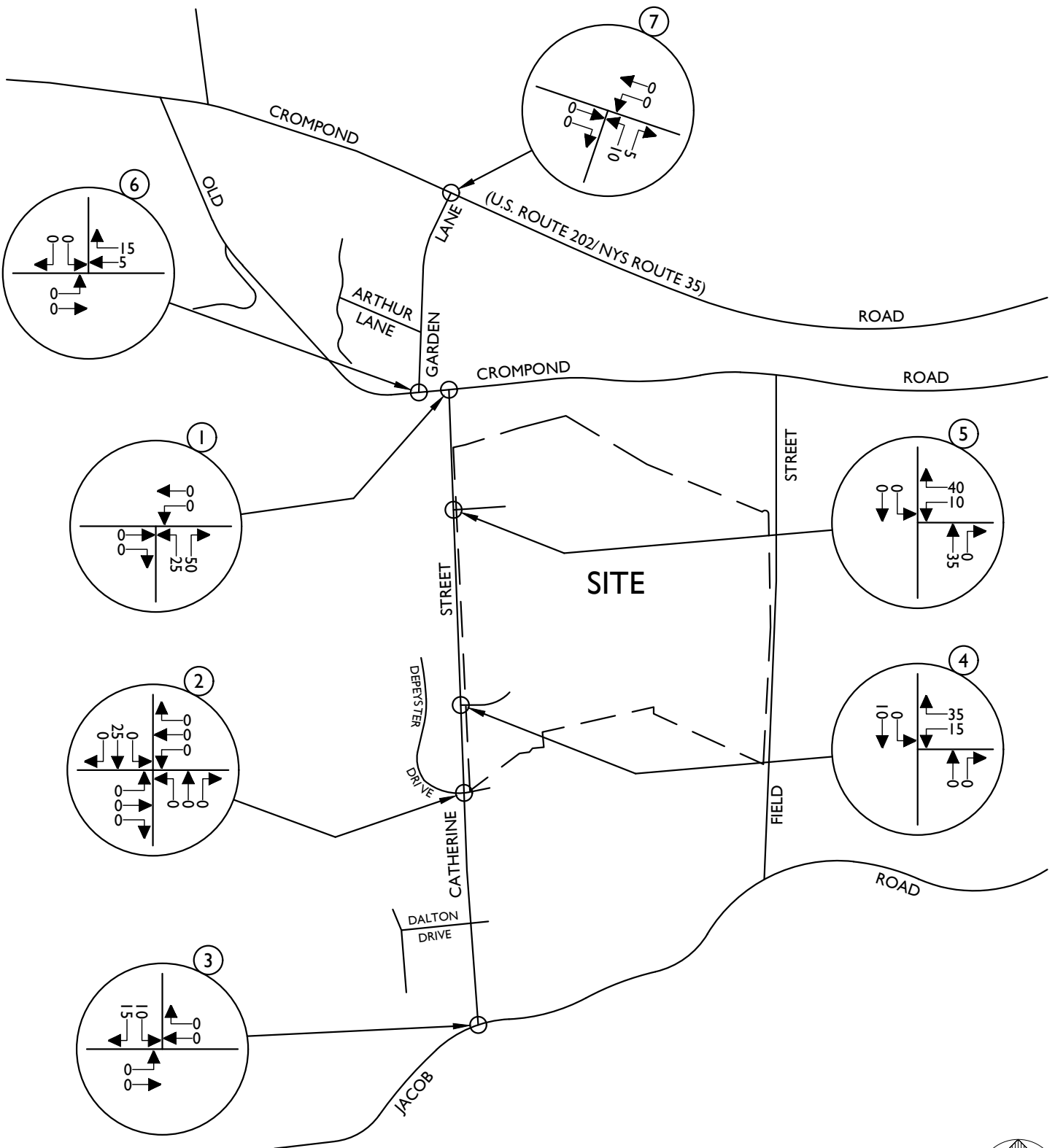
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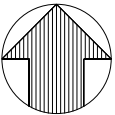
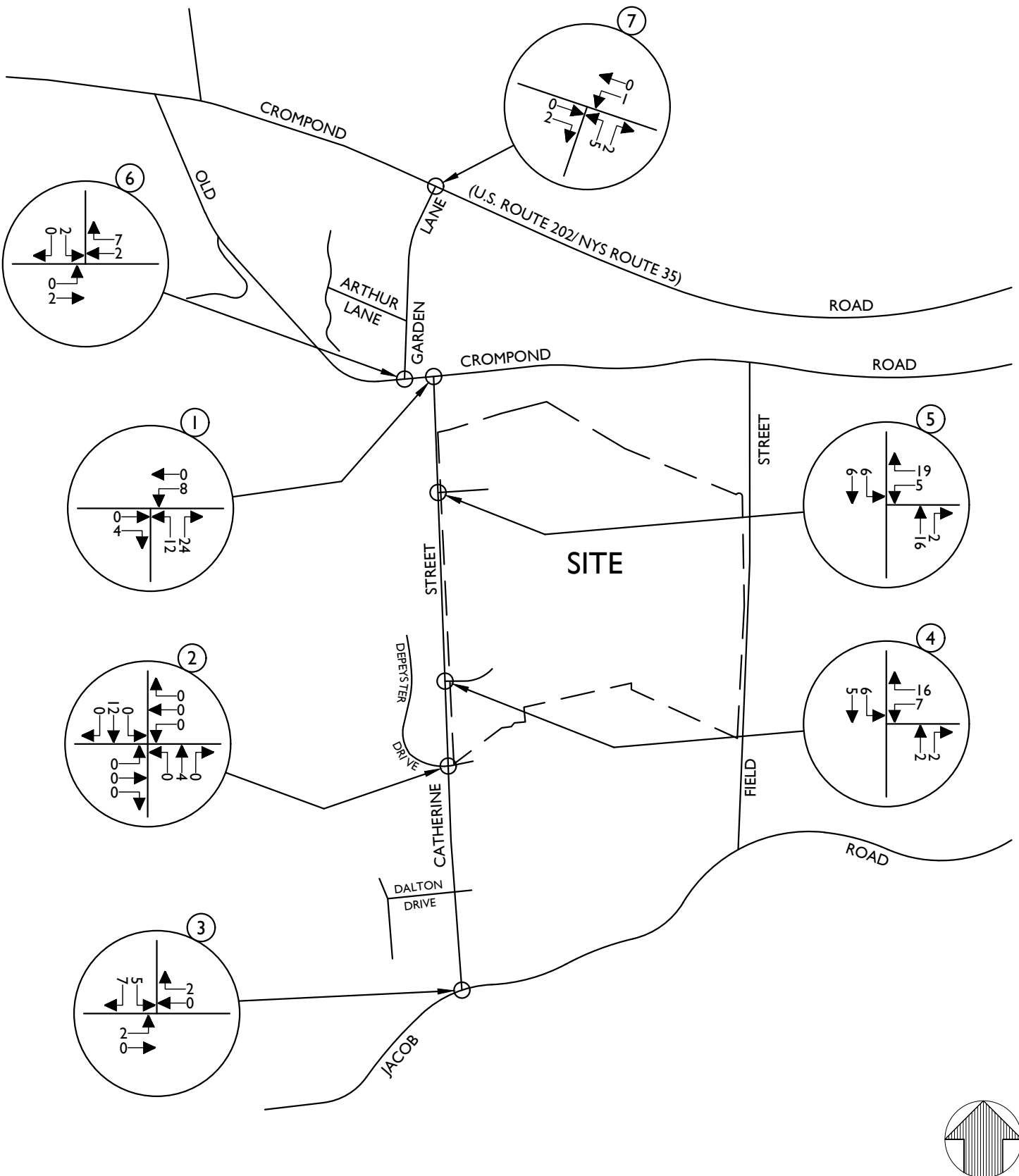
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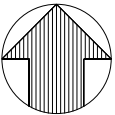
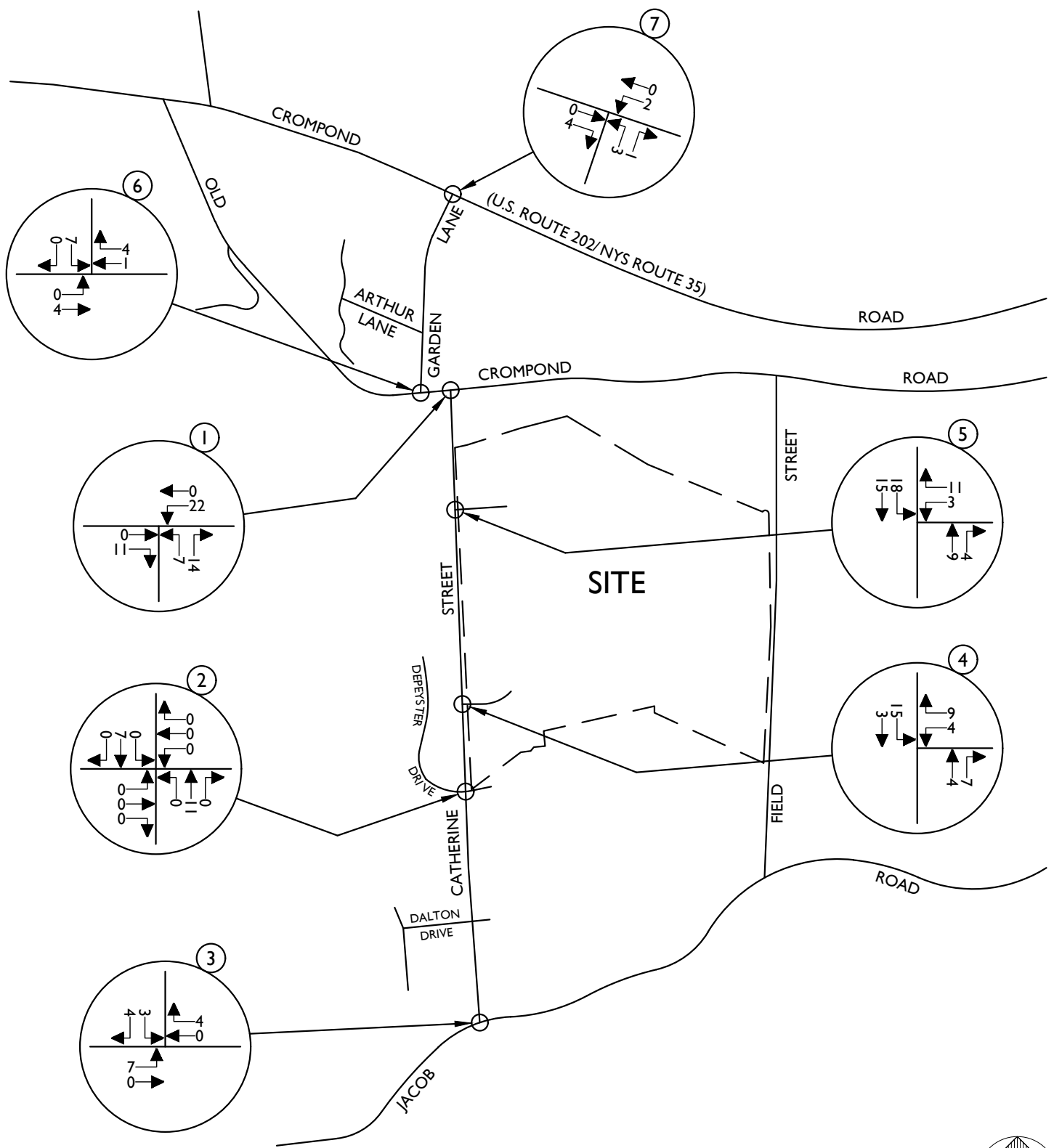
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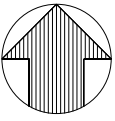
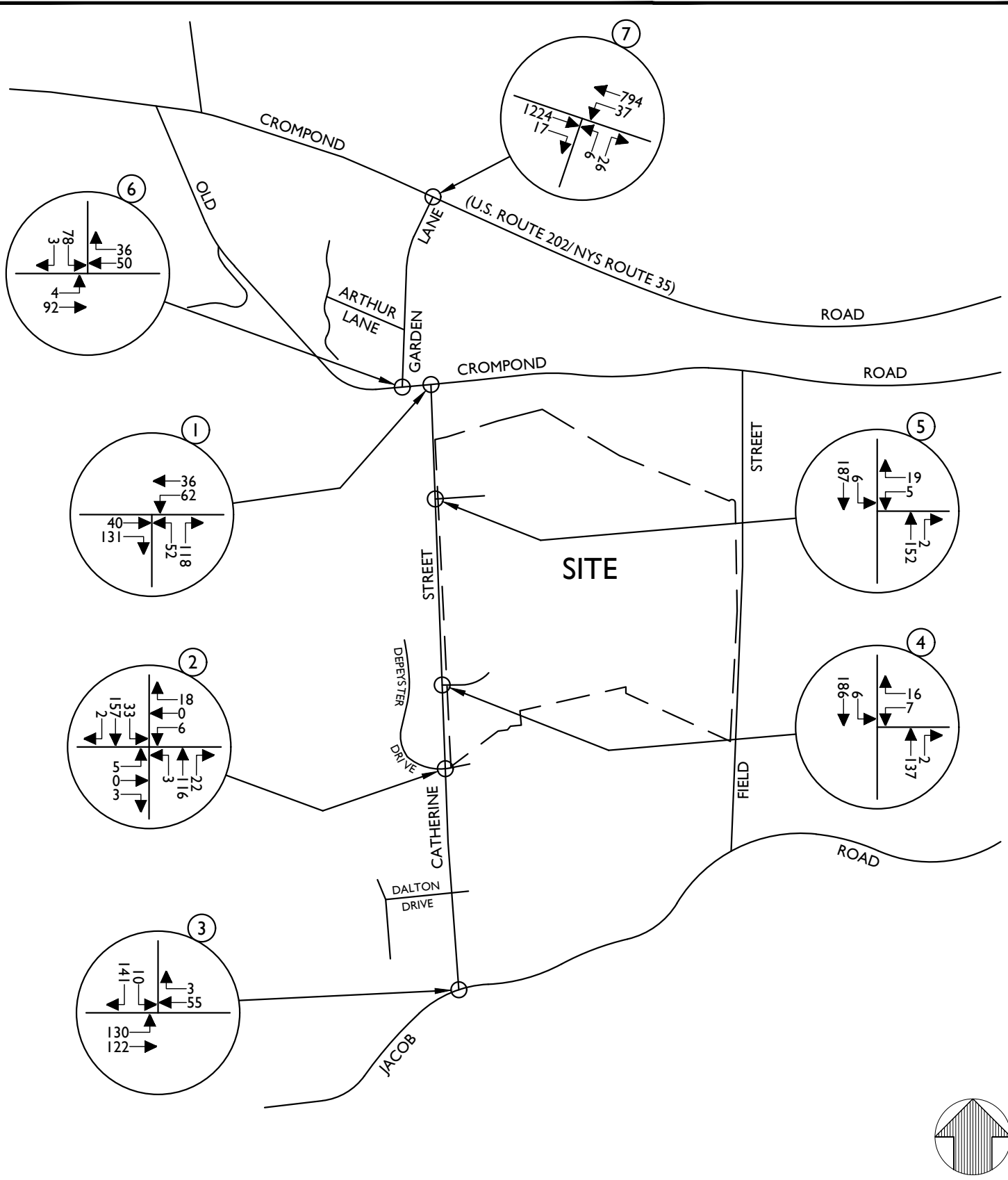
TRAFFIC IMPACT STUDY

| | | | |
|-----------------|-----------------|-----------|-------------|
| SCALE: | DATE: | DRAWN BY: | CHECKED BY: |
| AS SHOWN | 5/13/22 | R.H. | P.J.G. |
| PROJECT NUMBER: | DRAWING NAME: | | |
| 21006314A | 220513RH_FIGURE | | |

SHEET TITLE:
**SITE GENERATED TRAFFIC VOLUMES
WEEKDAY PEAK PM HOUR**

SHEET NUMBER:

9



NOTE: LINE DIAGRAM NOT TO SCALE



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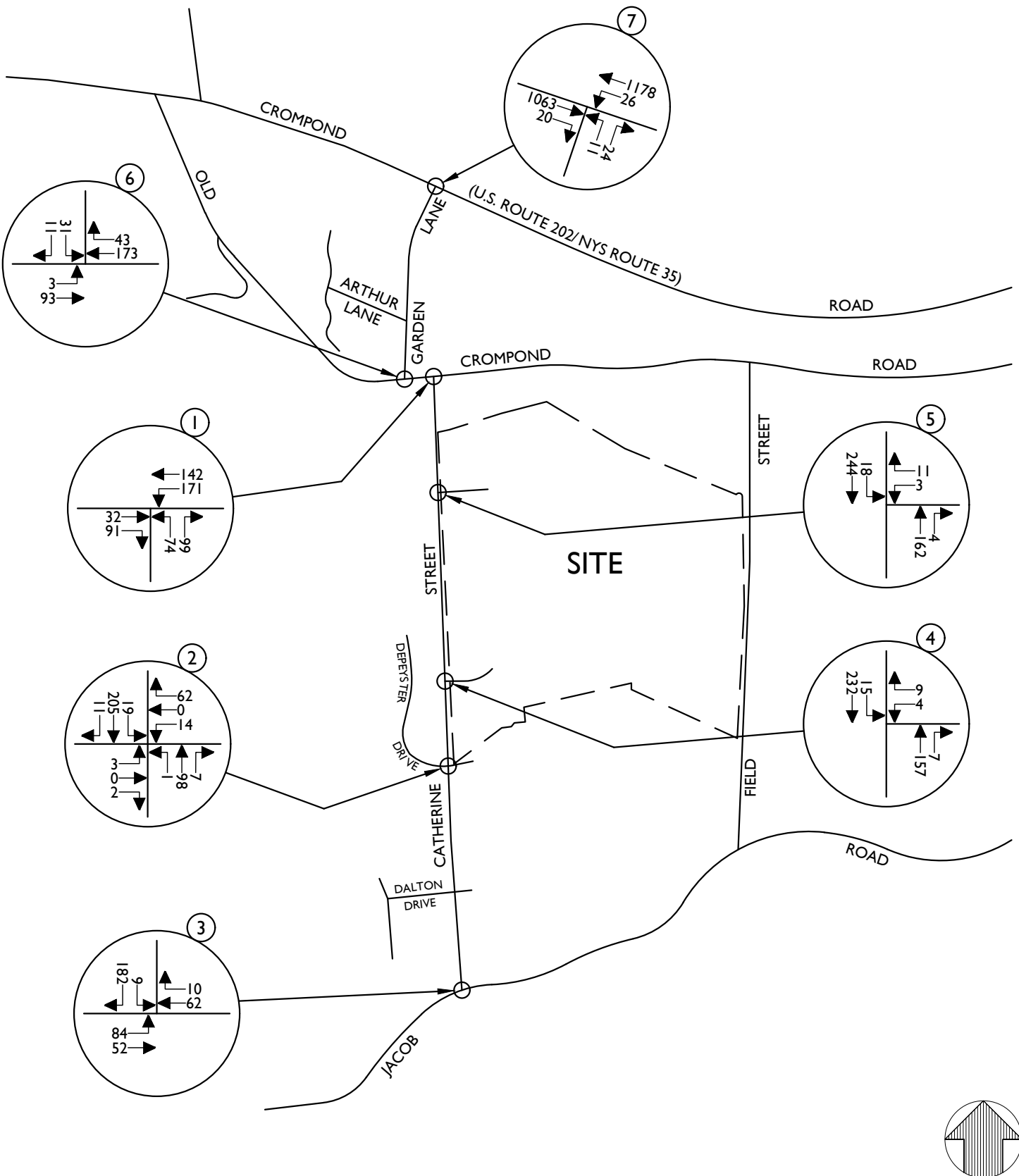
TRAFFIC IMPACT STUDY

| | | | |
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| SCALE: | DATE: | DRAWN BY: | CHECKED BY: |
| AS SHOWN | 5/13/22 | R.H. | P.J.G. |
| PROJECT NUMBER: | DRAWING NAME: | | |
| 21006314A | 220513RH_FIGURE | | |

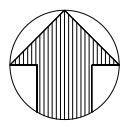
SHEET TITLE:
2026 BUILD TRAFFIC VOLUMES WEEKDAY PEAK AM HOUR

SHEET NUMBER:
10

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| | | | |
|-----------------|-----------------|-----------|-------------|
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| AS SHOWN | 5/13/22 | R.H. | P.J.G. |
| PROJECT NUMBER: | DRAWING NAME: | | |
| 21006314A | 220513RH_FIGURE | | |

SHEET TITLE:
2026 BUILD TRAFFIC VOLUMES WEEKDAY PEAK PM HOUR

SHEET NUMBER:
11

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Traffic Impact Study

Appendix B | Tables

**Table No. 1
Hourly Trip Generation Rates (HTGR) and
Anticipated Site Generated Traffic Volumes**

| Field Home Residential Development Town of Yorktown, New York | Entry | | Exit | |
|--|-------------------|--------|-------|-------------------|
| | HTGR ¹ | Volume | HTGR1 | HTGR ¹ |
| Townhouses (120 Dwelling Units) | | | | |
| Peak AM Highway Hour | 0.13 | 16 | 0.39 | 47 |
| Peak PM Highway Hour | 0.37 | 44 | 0.23 | 27 |

NOTES:

1) THE HOURLY TRIP GENERATION RATES (HTGR) ARE BASED ON DATA PUBLISHED BY THE INSTITUTE OF TRANSPORTATION ENGINEERS (ITE) AS CONTAINED IN THE TRIP GENERATION HANDBOOK, 11TH EDITION, 2021. ITE LAND USE CODE - 215 - SINGLE FAMILY ATTACHED HOUSING.

**Table No. 1A
Hourly Trip Generation Rates (HTGR) and
Anticipated Site Generated Traffic Volumes**

| Field Home Residential Development Town of Yorktown, New York | Entry | | Exit | |
|--|-------------------|--------|-------|-------------------|
| | HTGR ¹ | Volume | HTGR1 | HTGR ¹ |
| Senior Adult Housing (120 Dwelling Units) | | | | |
| Peak AM Highway Hour | 0.12 | 14 | 0.14 | 17 |
| Peak PM Highway Hour | 0.16 | 19 | 0.13 | 16 |

NOTES:

1) THE HOURLY TRIP GENERATION RATES (HTGR) ARE BASED ON DATA PUBLISHED BY THE INSTITUTE OF TRANSPORTATION ENGINEERS (ITE) AS CONTAINED IN THE TRIP GENERATION HANDBOOK, 11TH EDITION, 2021. ITE LAND USE CODE - 252 - SENIOR ADULT HOUSING ATTACHED.

Table No. 2
Level of Service Summary Table
Weekday Peak AM Hour

| | | | 2022 Existing | | | 2026 No-Build | | | 2026 Build | | | Change in Delay No-Build to Build |
|---|---|---------------------|---------------|-----|-------|---------------|----------|------------|------------|----------|------------|--------------------------------------|
| | | | v/c | LOS | Delay | v/c | LOS | Delay | v/c | LOS | Delay | |
| 1 | Catherine Street & Old Crompond Road | Unsignalized | | | | | | | | | | |
| | Old Crompond Road | WB LT | 0.04 | A | 7.7 | 0.05 | A | 7.7 | 0.05 | A | 7.8 | 0.1 |
| | Catherine Street | NB LR | 0.17 | B | 10.0 | 0.18 | B | 10.0 | 0.23 | B | 10.4 | 0.4 |
| 2 | Catherine Street & Depeyster Drive/ Field Home | Unsignalized | | | | | | | | | | |
| | Depeyster Drive | EB LTR | 0.00 | A | 7.4 | 0.00 | A | 7.4 | 0.00 | A | 7.4 | 0.0 |
| | Field Home | WB LTR | 0.01 | A | 7.2 | 0.01 | A | 7.2 | 0.01 | A | 7.2 | 0.0 |
| | Catherine Street | NB LTR | 0.20 | B | 10.4 | 0.21 | B | 10.5 | 0.21 | B | 10.5 | 0.0 |
| | Catherine Street | SB LTR | 0.27 | B | 11.1 | 0.28 | B | 11.2 | 0.30 | B | 11.4 | 0.2 |
| 3 | Catherine Street & Jacob Road | Unsignalized | | | | | | | | | | |
| | Jacob Road | EB LT | 0.12 | A | 7.8 | 0.12 | A | 7.8 | 0.13 | A | 7.8 | 0.0 |
| | Catherine Street | SB LR | 0.20 | A | 9.9 | 0.21 | B | 10.0 | 0.24 | B | 10.4 | 0.4 |
| 4 | Catherine Street & Site Access (South) | Unsignalized | | | | | | | | | | |
| | Site Access (South) | WB LR | - | - | - | - | - | - | 0.04 | A | 9.8 | - |
| | Catherine Street | SB LT | - | - | - | - | - | - | 0.01 | A | 7.6 | - |
| 5 | Catherine Street & Site Access (North) | Unsignalized | | | | | | | | | | |
| | Site Access (North) | WB LR | - | - | - | - | - | - | 0.04 | A | 9.9 | - |
| | Catherine Street | SB LT | - | - | - | - | - | - | 0.01 | A | 7.6 | - |
| 6 | Garden Lane & Old Crompond Road | Unsignalized | | | | | | | | | | |
| | Old Crompond Road | WB LT | 0.00 | A | 7.4 | 0.00 | A | 7.4 | 0.00 | A | 7.5 | 0.1 |
| | Garden Lane | SB LR | 0.13 | B | 10.5 | 0.15 | B | 10.8 | 0.15 | B | 10.9 | 0.1 |
| 7 | Garden Lane & Crompond Road (U.S. Route 202/ NYS Route 35) | Unsignalized | | | | | | | | | | |
| | Crompond Road | WB LT | 0.07 | B | 12.0 | 0.07 | B | 12.4 | 0.07 | B | 12.4 | 0.0 |
| | Garden Lane | NB LR | 0.12 | D | 25.2 | 0.14 | D | 27.2 | 0.25 | E | 40.3 | 13.1 |
| | W/ Signalization | | | | | | | | | | | |
| | Crompond Road | EB TR | - | - | - | 0.89 | B | 10.4 | 0.89 | B | 10.4 | 0.0 |
| | Crompond Road | WB LT | - | - | - | 0.74 | A | 6.0 | 0.74 | A | 6.2 | 0.2 |
| | Garden Lane | NB LR | - | - | - | 0.20 | C | 28.2 | 0.25 | C | 28.8 | 0.6 |
| | OVERALL | | - | - | - | - | A | 8.9 | - | A | 9.0 | 0.1 |

NOTES:

1) THE ABOVE REPRESENTS THE LEVEL OF SERVICE AND VEHICLE DELAY IN SECONDS, C [16.2], FOR EACH KEY APPROACH OF THE UNSIGNALIZED INTERSECTIONS AS WELL AS FOR EACH APPROACH AND THE OVERALL INTERSECTION FOR THE SIGNALIZED INTERSECTIONS. SEE APPENDIX "C" FOR A DESCRIPTION OF THE LEVELS OF SERVICE.

Table No. 2
Level of Service Summary Table
Weekday Peak PM Hour

| | | | 2022 Existing | | | 2026 No-Build | | | 2026 Build | | | Change in Delay No-Build to Build | |
|---|--|------------------|---------------------------|------|-------|---------------|------|----------|------------|------|----------|--------------------------------------|------|
| | | | v/c | LOS | Delay | v/c | LOS | Delay | v/c | LOS | Delay | | |
| 1 | Catherine Street & Old Crompond Road | Unsignalized | | | | | | | | | | | |
| | | | Old Crompond Road WB LT | 0.11 | A | 7.8 | 0.12 | A | 7.8 | 0.14 | A | 7.9 | 0.1 |
| | | | Catherine Street NB LR | 0.23 | B | 11.2 | 0.24 | B | 11.4 | 0.28 | B | 12.0 | 0.6 |
| 2 | Catherine Street & Depeyster Drive/ Field Home | Unsignalized | | | | | | | | | | | |
| | | | Depeyster Drive EB LTR | 0.00 | A | 7.3 | 0.00 | A | 7.3 | 0.00 | A | 7.3 | 0.0 |
| | | | Field Home WB LTR | 0.01 | A | 7.3 | 0.01 | A | 7.3 | 0.01 | A | 7.3 | 0.0 |
| | | | Catherine Street NB LTR | 0.12 | B | 10.1 | 0.13 | B | 10.2 | 0.14 | B | 10.3 | 0.1 |
| | | | Catherine Street SB LTR | 0.29 | B | 11.1 | 0.30 | B | 11.3 | 0.31 | B | 11.4 | 0.1 |
| 3 | Catherine Street & Jacob Road | Unsignalized | | | | | | | | | | | |
| | | | Jacob Road EB LT | 0.05 | A | 7.5 | 0.06 | A | 7.5 | 0.06 | A | 7.5 | 0.0 |
| | | | Catherine Street SB LR | 0.20 | A | 9.6 | 0.21 | A | 9.7 | 0.22 | A | 9.8 | 0.1 |
| 4 | Catherine Street & Site Access (South) | Unsignalized | | | | | | | | | | | |
| | | | Site Access (South) WB LR | - | - | - | - | - | - | 0.02 | A | 9.9 | - |
| | | | Catherine Street SB LT | - | - | - | - | - | - | 0.01 | A | 7.6 | - |
| 5 | Catherine Street & Site Access (North) | Unsignalized | | | | | | | | | | | |
| | | | Site Access (North) WB LR | - | - | - | - | - | - | 0.02 | A | 9.8 | - |
| | | | Catherine Street SB LT | - | - | - | - | - | - | 0.01 | A | 7.6 | - |
| 6 | Garden Lane & Old Crompond Road | Unsignalized | | | | | | | | | | | |
| | | | Old Crompond Road WB LT | 0.00 | A | 7.7 | 0.00 | A | 7.8 | 0.00 | A | 7.8 | 0.0 |
| | | | Garden Lane SB LR | 0.06 | B | 10.7 | 0.07 | B | 10.9 | 0.08 | B | 11.1 | 0.2 |
| 7 | Garden Lane & Crompond Road (U.S. Route 202/ NYS Route 35) | Unsignalized | | | | | | | | | | | |
| | | | Crompond Road WB LT | 0.04 | B | 11.1 | 0.04 | B | 11.4 | 0.05 | B | 11.4 | 0.0 |
| | | | Garden Lane NB LR | 0.27 | E | 46.3 | 0.31 | F | 52.8 | 0.40 | F | 68.1 | 15.3 |
| | | | | | | | | | | | | | |
| | | W/ Signalization | Crompond Road EB TR | - | - | - | 0.79 | A | 6.2 | 0.79 | A | 6.3 | 0.1 |
| | | | Crompond Road WB LT | - | - | - | 0.86 | A | 8.9 | 0.87 | A | 9.0 | 0.1 |
| | | | Garden Lane NB LR | - | - | - | 0.22 | C | 26.0 | 0.25 | C | 26.4 | 0.4 |
| | | | OVERALL | - | - | - | - | A | 7.9 | - | A | 8.0 | 0.1 |

NOTES:

1) THE ABOVE REPRESENTS THE LEVEL OF SERVICE AND VEHICLE DELAY IN SECONDS, C [16.2], FOR EACH KEY APPROACH OF THE UNSIGNALIZED INTERSECTIONS AS WELL AS FOR EACH APPROACH AND THE OVERALL INTERSECTION FOR THE SIGNALIZED INTERSECTIONS. SEE APPENDIX "C" FOR A DESCRIPTION OF THE LEVELS OF SERVICE.

Traffic Impact Study

Appendix C | Level of Service Standards

Level of Service Standards

Level of Service for Signalized Intersections

Level of Service (LOS) can be characterized for the entire intersection, each intersection approach, and each lane group. Control delay alone is used to characterize LOS for the entire intersection or an approach. Control delay and volume-to-capacity (v/c) ratio are used to characterize LOS for a lane group. Delay quantifies the increase in travel time due to traffic signal control. It is also a measure of driver discomfort and fuel consumption. The volume-to-capacity ratio quantifies the degree to which a phase's capacity is utilized by a lane group.

- **LOS A** describes operations with a control delay of 10 s/veh or less and a volume-to-capacity ratio no greater than 1.0. This level is typically assigned when the volume-to-capacity ratio is low and either progression is exceptionally favorable or the cycle length is very short. If it is due to favorable progression, most vehicles arrive during the green indication and travel through the intersection without stopping.
- **LOS B** describes operations with control delay between 10 and 20 s/veh and a volume-to-capacity ratio no greater than 1.0. This level is typically assigned when the volume-to-capacity ratio is low and either progression is highly favorable or the cycle length is short. More vehicles stop than with LOS A.
- **LOS C** describes operations with control delay between 20 and 35 s/veh and a volume-to-capacity ratio no greater than 1.0. This level is typically assigned when progression is favorable or the cycle length is moderate.
- **LOS D** describes operations with control delay between 35 and 55 s/veh and a volume-to-capacity ratio no greater than 1.0. This level is typically assigned when the volume-to-capacity ratio is high and either progression is ineffective or the cycle length is long.
- **LOS E** describes operations with control delay between 55 and 80 s/veh and a volume-to-capacity ratio no greater than 1.0. This level is typically assigned when the volume-to-capacity ratio is high, progression is unfavorable, and the cycle length is long.
- **LOS F** describes operations with control delay exceeding 80 s/veh or a volume-to-capacity ratio greater than 1.0. This level is typically assigned when the volume-to-capacity ratio is very high, progression is very poor, and the cycle length is long.

A lane group can incur a delay less than 80 s/veh when the volume-to-capacity ratio exceeds 1.0. This condition typically occurs when the cycle length is short, the signal progression is favorable, or both. As a result, both the delay and volume-to-capacity ratio are considered when lane group LOS is established. A ratio of 1.0 or more indicates that cycle capacity is fully utilized and represents failure from a capacity perspective (just as delay in excess of 80 s/veh represents failure from a delay perspective).

The Level of Service Criteria for signalized intersections are given in Exhibit 19-8 from the *Highway Capacity Manual, 6th Edition* published by the Transportation Research Board.

Exhibit 19-8 LOS by Volume-to-Capacity Ratio

| Control Delay (s/veh) | $v/c \leq 1.0$ | $v/c \geq 1.0$ |
|-----------------------|----------------|----------------|
| ≤ 10 | A | F |
| $>10-20$ | B | F |
| $>20-35$ | C | F |
| $>35-55$ | D | F |
| $>55-80$ | E | F |
| >80 | F | F |

For approach-based and intersection wide assessments, LOS is defined solely by control delay.

Level of Service Criteria For Two-Way Stop-Controlled (TWSC) Unsignalized Intersections

Level of Service (LOS) for a two-way stop-controlled (TWSC) intersection is determined by the computed or measured control delay. For motor vehicles, LOS is determined for each minor-street movement (or shared movement) as well as major-street left turns. LOS is not defined for the intersection as a whole or for major-street approaches.

The Level of Service Criteria for TWSC unsignalized intersections are given in Exhibit 20-2 from the Highway Capacity Manual, 6th Edition published by the Transportation Research Board.

Exhibit 20-2 LOS by Volume-to-Capacity Ratio

| Control Delay (s/veh) | $v/c \leq 1.0$ | $v/c \geq 1.0$ |
|-----------------------|----------------|----------------|
| 0-10 | A | F |
| >10-15 | B | F |
| >15-25 | C | F |
| >25-35 | D | F |
| >35-50 | E | F |
| >50 | F | F |

The LOS criteria apply to each lane on a given approach and to each approach on the minor street. LOS is not calculated for major-street approaches or for the intersection as a whole.

As Exhibit 20-2 notes, LOS F is assigned to the movement if the volume-to-capacity ratio for the movement exceeds 1.0, regardless of the control delay.

The Level of Service Criteria for unsignalized intersections are somewhat different from the criteria for signalized intersections.

Level of Service Criteria For All-Way Stop-Controlled (AWSC) Unsignalized Intersections

The Levels of Service (LOS) for all-way stop-controlled (AWSC) intersections are given in Exhibit 21-8. As the exhibit notes, LOS F is assigned if the volume-to-capacity (v/c) ratio of a lane exceeds 1.0, regardless of the control delay. For assessment of LOS at the approach and intersection levels, LOS is based solely on control delay.

The Level of Service Criteria for AWSC unsignalized intersections are given in Exhibit 21-8 from the *Highway Capacity Manual, 6th Edition* published by the Transportation Research Board.

Exhibit 21-8 LOS by Volume-to-Capacity Ratio

| Control Delay (s/veh) | $v/c \leq 1.0$ | $v/c \geq 1.0$ |
|-----------------------|----------------|----------------|
| 0-10 | A | F |
| >10-15 | B | F |
| >15-25 | C | F |
| >25-35 | D | F |
| >35-50 | E | F |
| >50 | F | F |

For approaches and intersection wide assessment, LOS is defined solely by control delay.

Traffic Impact Study

Appendix D | Capacity Analysis

2022 Existing Traffic Volumes
1: Catherine Street & Old Crompond Road

Peak AM Hour
06/03/2022



| Lane Group | EBT | EBR | WBL | WBT | NBL | NBR |
|----------------------------|-------|-------|------|-------|-------|-------|
| Lane Configurations | | | | | | |
| Traffic Volume (vph) | 38 | 122 | 52 | 35 | 39 | 91 |
| Future Volume (vph) | 38 | 122 | 52 | 35 | 39 | 91 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Lane Width (ft) | 11 | 12 | 12 | 11 | 12 | 12 |
| Grade (%) | -4% | | | 2% | -10% | |
| Lane Util. Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Frt | 0.897 | | | | 0.906 | |
| Flt Protected | | | | 0.971 | 0.985 | |
| Satd. Flow (prot) | 1524 | 0 | 0 | 1553 | 1587 | 0 |
| Flt Permitted | | | | 0.971 | 0.985 | |
| Satd. Flow (perm) | 1524 | 0 | 0 | 1553 | 1587 | 0 |
| Link Speed (mph) | 30 | | | 30 | 30 | |
| Link Distance (ft) | 170 | | | 1649 | 587 | |
| Travel Time (s) | 3.9 | | | 37.5 | 13.3 | |
| Peak Hour Factor | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 |
| Heavy Vehicles (%) | 11% | 10% | 2% | 31% | 15% | 11% |
| Adj. Flow (vph) | 45 | 144 | 61 | 41 | 46 | 107 |
| Shared Lane Traffic (%) | | | | | | |
| Lane Group Flow (vph) | 189 | 0 | 0 | 102 | 153 | 0 |
| Enter Blocked Intersection | No | No | No | No | No | No |
| Lane Alignment | Left | Right | Left | Left | Left | Right |
| Median Width(ft) | 0 | | | 0 | 12 | |
| Link Offset(ft) | 0 | | | 0 | 0 | |
| Crosswalk Width(ft) | 16 | | | 16 | 16 | |
| Two way Left Turn Lane | | | | | | |
| Headway Factor | 1.02 | 0.97 | 1.01 | 1.06 | 0.94 | 0.94 |
| Turning Speed (mph) | | 9 | 15 | | 15 | 9 |
| Sign Control | Free | | | Free | Stop | |

Intersection Summary

Area Type: Other

Control Type: Unsignalized

2022 Existing Traffic Volumes
1: Catherine Street & Old Crompond Road

Peak AM Hour
06/03/2022

Intersection

Int Delay, s/veh 4.5

| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
|--------------------------|------|------|------|------|------|------|
| Lane Configurations | ↑ | | | ↑ | ↑ | |
| Traffic Vol, veh/h | 38 | 122 | 52 | 35 | 39 | 91 |
| Future Vol, veh/h | 38 | 122 | 52 | 35 | 39 | 91 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | -4 | - | - | 2 | -10 | - |
| Peak Hour Factor | 85 | 85 | 85 | 85 | 85 | 85 |
| Heavy Vehicles, % | 11 | 10 | 2 | 31 | 15 | 11 |
| Mvmt Flow | 45 | 144 | 61 | 41 | 46 | 107 |

| Major/Minor | Major1 | Major2 | Minor1 | Minor2 | Minor3 |
|----------------------|--------|--------|--------|--------|--------|
| Conflicting Flow All | 0 | 0 | 189 | 0 | 280 |
| Stage 1 | - | - | - | - | 117 |
| Stage 2 | - | - | - | - | 163 |
| Critical Hdwy | - | - | 4.12 | - | 4.55 |
| Critical Hdwy Stg 1 | - | - | - | - | 3.55 |
| Critical Hdwy Stg 2 | - | - | - | - | 3.55 |
| Follow-up Hdwy | - | - | 2.218 | - | 3.635 |
| Pot Cap-1 Maneuver | - | - | 1385 | - | 798 |
| Stage 1 | - | - | - | - | 936 |
| Stage 2 | - | - | - | - | 915 |
| Platoon blocked, % | - | - | - | - | - |
| Mov Cap-1 Maneuver | - | - | 1385 | - | 762 |
| Mov Cap-2 Maneuver | - | - | - | - | 762 |
| Stage 1 | - | - | - | - | 936 |
| Stage 2 | - | - | - | - | 874 |

| Approach | EB | WB | NB |
|----------------------|----|-----|----|
| HCM Control Delay, s | 0 | 4.6 | 10 |
| HCM LOS | | | B |

| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBL | WBT |
|-----------------------|-------|-----|-----|-------|-----|
| Capacity (veh/h) | 879 | - | - | 1385 | - |
| HCM Lane V/C Ratio | 0.174 | - | - | 0.044 | - |
| HCM Control Delay (s) | 10 | - | - | 7.7 | 0 |
| HCM Lane LOS | B | - | - | A | A |
| HCM 95th %tile Q(veh) | 0.6 | - | - | 0.1 | - |

2022 Existing Traffic Volumes
2: Catherine Street & Depeyster Drive/Field Home

Peak AM Hour
06/03/2022



| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|----------------------------|------|-------|-------|------|-------|-------|------|-------|-------|------|-------|-------|
| Lane Configurations | | ↔ | | | ↔ | | | ↔ | | | ↔ | |
| Traffic Volume (vph) | 5 | 0 | 3 | 6 | 0 | 17 | 3 | 108 | 21 | 32 | 140 | 2 |
| Future Volume (vph) | 5 | 0 | 3 | 6 | 0 | 17 | 3 | 108 | 21 | 32 | 140 | 2 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Lane Width (ft) | 12 | 11 | 12 | 12 | 12 | 12 | 12 | 13 | 12 | 12 | 13 | 12 |
| Grade (%) | | 1% | | | -2% | | | 0% | | | 0% | |
| Lane Util. Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Frt | | 0.946 | | | 0.902 | | | 0.979 | | | 0.998 | |
| Flt Protected | | 0.971 | | | 0.986 | | | 0.999 | | | 0.991 | |
| Satd. Flow (prot) | 0 | 1488 | 0 | 0 | 1673 | 0 | 0 | 1635 | 0 | 0 | 1804 | 0 |
| Flt Permitted | | 0.971 | | | 0.986 | | | 0.999 | | | 0.991 | |
| Satd. Flow (perm) | 0 | 1488 | 0 | 0 | 1673 | 0 | 0 | 1635 | 0 | 0 | 1804 | 0 |
| Link Speed (mph) | | 30 | | | 30 | | | 30 | | | 30 | |
| Link Distance (ft) | | 322 | | | 241 | | | 1150 | | | 418 | |
| Travel Time (s) | | 7.3 | | | 5.5 | | | 26.1 | | | 9.5 | |
| Peak Hour Factor | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 |
| Heavy Vehicles (%) | 20% | 2% | 2% | 2% | 2% | 2% | 33% | 14% | 33% | 2% | 9% | 2% |
| Adj. Flow (vph) | 6 | 0 | 4 | 8 | 0 | 21 | 4 | 135 | 26 | 40 | 175 | 3 |
| Shared Lane Traffic (%) | | | | | | | | | | | | |
| Lane Group Flow (vph) | 0 | 10 | 0 | 0 | 29 | 0 | 0 | 165 | 0 | 0 | 218 | 0 |
| Enter Blocked Intersection | No | No | No | No | No | No | No | No | No | No | No | No |
| Lane Alignment | Left | Left | Right | Left | Left | Right | Left | Left | Right | Left | Left | Right |
| Median Width(ft) | | 0 | | | 0 | | | 0 | | | 0 | |
| Link Offset(ft) | | 0 | | | 0 | | | 0 | | | 0 | |
| Crosswalk Width(ft) | | 16 | | | 16 | | | 16 | | | 16 | |
| Two way Left Turn Lane | | | | | | | | | | | | |
| Headway Factor | 1.01 | 1.05 | 1.01 | 0.99 | 0.99 | 0.99 | 1.00 | 0.96 | 1.00 | 1.00 | 0.96 | 1.00 |
| Turning Speed (mph) | 15 | | 9 | 15 | | 9 | 15 | | 9 | 15 | | 9 |
| Sign Control | | Free | | | Free | | | Stop | | | Stop | |

Intersection Summary

Area Type: Other

Control Type: Unsignalized

2022 Existing Traffic Volumes
2: Catherine Street & Depeyster Drive/Field Home

Peak AM Hour
06/03/2022

| Intersection | | | | | | | | | | | | |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Int Delay, s/veh | 10 | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | | ↔ | | | ↔ | | | ↔ | | | ↔ | |
| Traffic Vol, veh/h | 5 | 0 | 3 | 6 | 0 | 17 | 3 | 108 | 21 | 32 | 140 | 2 |
| Future Vol, veh/h | 5 | 0 | 3 | 6 | 0 | 17 | 3 | 108 | 21 | 32 | 140 | 2 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 1 | - | - | -2 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 |
| Heavy Vehicles, % | 20 | 2 | 2 | 2 | 2 | 2 | 33 | 14 | 33 | 2 | 9 | 2 |
| Mvmt Flow | 6 | 0 | 4 | 8 | 0 | 21 | 4 | 135 | 26 | 40 | 175 | 3 |

| Major/Minor | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
|----------------------|--------|---|---|--------|---|---|--------|-------|-------|--------|-------|-------|
| Conflicting Flow All | 21 | 0 | 0 | 4 | 0 | 0 | 130 | 51 | 2 | 122 | 43 | 11 |
| Stage 1 | - | - | - | - | - | - | 14 | 14 | - | 27 | 27 | - |
| Stage 2 | - | - | - | - | - | - | 116 | 37 | - | 95 | 16 | - |
| Critical Hdwy | 4.3 | - | - | 4.12 | - | - | 7.43 | 6.64 | 6.53 | 7.12 | 6.59 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.43 | 5.64 | - | 6.12 | 5.59 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.43 | 5.64 | - | 6.12 | 5.59 | - |
| Follow-up Hdwy | 2.38 | - | - | 2.218 | - | - | 3.797 | 4.126 | 3.597 | 3.518 | 4.081 | 3.318 |
| Pot Cap-1 Maneuver | 1485 | - | - | 1618 | - | - | 776 | 818 | 998 | 853 | 835 | 1070 |
| Stage 1 | - | - | - | - | - | - | 932 | 860 | - | 990 | 859 | - |
| Stage 2 | - | - | - | - | - | - | 819 | 841 | - | 912 | 868 | - |
| Platoon blocked, % | - | - | - | - | - | - | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | 1485 | - | - | 1618 | - | - | 644 | 811 | 998 | 720 | 827 | 1070 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 644 | 811 | - | 720 | 827 | - |
| Stage 1 | - | - | - | - | - | - | 928 | 857 | - | 986 | 855 | - |
| Stage 2 | - | - | - | - | - | - | 647 | 837 | - | 745 | 865 | - |

| Approach | EB | | | WB | | | NB | | | SB | | |
|----------------------|-----|--|--|-----|--|--|------|--|--|------|--|--|
| HCM Control Delay, s | 4.6 | | | 1.9 | | | 10.4 | | | 11.1 | | |
| HCM LOS | | | | | | | B | | | B | | |

| Minor Lane/Major Mvmt | NBLn1 | EBL | EBT | EBR | WBL | WBT | WBR | SBLn1 |
|-----------------------|-------|-------|-----|-----|-------|-----|-----|-------|
| Capacity (veh/h) | 831 | 1485 | - | - | 1618 | - | - | 807 |
| HCM Lane V/C Ratio | 0.199 | 0.004 | - | - | 0.005 | - | - | 0.27 |
| HCM Control Delay (s) | 10.4 | 7.4 | 0 | - | 7.2 | 0 | - | 11.1 |
| HCM Lane LOS | B | A | A | - | A | A | - | B |
| HCM 95th %tile Q(veh) | 0.7 | 0 | - | - | 0 | - | - | 1.1 |

2022 Existing Traffic Volumes
3: Jacob Road & Catherine Street

Peak AM Hour
06/03/2022



| Lane Group | EBL | EBT | WBT | WBR | SBL | SBR |
|----------------------------|------|-------|-------|-------|-------|-------|
| Lane Configurations | | | | | | |
| Traffic Volume (vph) | 123 | 117 | 53 | 1 | 5 | 129 |
| Future Volume (vph) | 123 | 117 | 53 | 1 | 5 | 129 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Lane Width (ft) | 12 | 13 | 10 | 12 | 12 | 12 |
| Grade (%) | | 1% | -2% | | -2% | |
| Lane Util. Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Frt | | | 0.998 | | 0.870 | |
| Flt Protected | | 0.975 | | | 0.998 | |
| Satd. Flow (prot) | 0 | 1770 | 1752 | 0 | 1523 | 0 |
| Flt Permitted | | 0.975 | | | 0.998 | |
| Satd. Flow (perm) | 0 | 1770 | 1752 | 0 | 1523 | 0 |
| Link Speed (mph) | | 30 | 30 | | 30 | |
| Link Distance (ft) | | 755 | 963 | | 1150 | |
| Travel Time (s) | | 17.2 | 21.9 | | 26.1 | |
| Peak Hour Factor | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 |
| Heavy Vehicles (%) | 11% | 4% | 2% | 2% | 20% | 9% |
| Adj. Flow (vph) | 173 | 165 | 75 | 1 | 7 | 182 |
| Shared Lane Traffic (%) | | | | | | |
| Lane Group Flow (vph) | 0 | 338 | 76 | 0 | 189 | 0 |
| Enter Blocked Intersection | No | No | No | No | No | No |
| Lane Alignment | Left | Left | Left | Right | Left | Right |
| Median Width(ft) | | 0 | 0 | | 12 | |
| Link Offset(ft) | | 0 | 0 | | 0 | |
| Crosswalk Width(ft) | | 16 | 16 | | 16 | |
| Two way Left Turn Lane | | | | | | |
| Headway Factor | 1.01 | 0.96 | 1.08 | 0.99 | 0.99 | 0.99 |
| Turning Speed (mph) | 15 | | | 9 | 15 | 9 |
| Sign Control | | Free | Free | | Stop | |

Intersection Summary

Area Type: Other
Control Type: Unsignalized

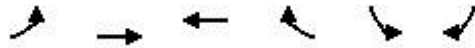
2022 Existing Traffic Volumes
3: Jacob Road & Catherine Street

Peak AM Hour
06/03/2022

| Intersection | | | | | | |
|--------------------------|--------|--------|--------|------|-------|-------|
| Int Delay, s/veh | 5.3 | | | | | |
| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 123 | 117 | 53 | 1 | 5 | 129 |
| Future Vol, veh/h | 123 | 117 | 53 | 1 | 5 | 129 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, # | - | 0 | 0 | - | 0 | - |
| Grade, % | - | 1 | -2 | - | -2 | - |
| Peak Hour Factor | 71 | 71 | 71 | 71 | 71 | 71 |
| Heavy Vehicles, % | 11 | 4 | 2 | 2 | 20 | 9 |
| Mvmt Flow | 173 | 165 | 75 | 1 | 7 | 182 |
| Major/Minor | Major1 | Major2 | Minor2 | | | |
| Conflicting Flow All | 76 | 0 | - | 0 | 587 | 76 |
| Stage 1 | - | - | - | - | 76 | - |
| Stage 2 | - | - | - | - | 511 | - |
| Critical Hdwy | 4.21 | - | - | - | 6.2 | 6.09 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.2 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.2 | - |
| Follow-up Hdwy | 2.299 | - | - | - | 3.68 | 3.381 |
| Pot Cap-1 Maneuver | 1468 | - | - | - | 473 | 970 |
| Stage 1 | - | - | - | - | 911 | - |
| Stage 2 | - | - | - | - | 600 | - |
| Platoon blocked, % | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | 1468 | - | - | - | 412 | 970 |
| Mov Cap-2 Maneuver | - | - | - | - | 412 | - |
| Stage 1 | - | - | - | - | 793 | - |
| Stage 2 | - | - | - | - | 600 | - |
| Approach | EB | WB | | SB | | |
| HCM Control Delay, s | 4 | 0 | | 9.9 | | |
| HCM LOS | | | | A | | |
| Minor Lane/Major Mvmt | EBL | EBT | WBT | WBR | SBLn1 | |
| Capacity (veh/h) | 1468 | - | - | - | - | 923 |
| HCM Lane V/C Ratio | 0.118 | - | - | - | - | 0.204 |
| HCM Control Delay (s) | 7.8 | 0 | - | - | - | 9.9 |
| HCM Lane LOS | A | A | - | - | - | A |
| HCM 95th %tile Q(veh) | 0.4 | - | - | - | - | 0.8 |

2022 Existing Traffic Volumes
6: Old Crompond Road & Garden Lane

Peak AM Hour
06/03/2022



| Lane Group | EBL | EBT | WBT | WBR | SBL | SBR |
|----------------------------|------|-------|-------|-------|-------|-------|
| Lane Configurations | | | | | | |
| Traffic Volume (vph) | 4 | 72 | 45 | 28 | 73 | 3 |
| Future Volume (vph) | 4 | 72 | 45 | 28 | 73 | 3 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Grade (%) | | -1% | 4% | | 3% | |
| Lane Util. Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Frt | | | 0.949 | | 0.995 | |
| Flt Protected | | 0.998 | | | 0.954 | |
| Satd. Flow (prot) | 0 | 1818 | 1602 | 0 | 1556 | 0 |
| Flt Permitted | | 0.998 | | | 0.954 | |
| Satd. Flow (perm) | 0 | 1818 | 1602 | 0 | 1556 | 0 |
| Link Speed (mph) | | 30 | 30 | | 30 | |
| Link Distance (ft) | | 631 | 170 | | 331 | |
| Travel Time (s) | | 14.3 | 3.9 | | 7.5 | |
| Peak Hour Factor | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 |
| Heavy Vehicles (%) | 2% | 5% | 13% | 6% | 12% | 67% |
| Adj. Flow (vph) | 5 | 96 | 60 | 37 | 97 | 4 |
| Shared Lane Traffic (%) | | | | | | |
| Lane Group Flow (vph) | 0 | 101 | 97 | 0 | 101 | 0 |
| Enter Blocked Intersection | No | No | No | No | No | No |
| Lane Alignment | Left | Left | Left | Right | Left | Right |
| Median Width(ft) | | 0 | 0 | | 12 | |
| Link Offset(ft) | | 0 | 0 | | 0 | |
| Crosswalk Width(ft) | | 16 | 16 | | 16 | |
| Two way Left Turn Lane | | | | | | |
| Headway Factor | 0.99 | 0.99 | 1.03 | 1.03 | 1.02 | 1.02 |
| Turning Speed (mph) | 15 | | | 9 | 15 | 9 |
| Sign Control | | Free | Free | | Stop | |

Intersection Summary

Area Type: Other
Control Type: Unsignalized

2022 Existing Traffic Volumes
6: Old Crompond Road & Garden Lane

Peak AM Hour
06/03/2022

Intersection

Int Delay, s/veh 3.7

| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
|--------------------------|------|------|------|------|------|------|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 4 | 72 | 45 | 28 | 73 | 3 |
| Future Vol, veh/h | 4 | 72 | 45 | 28 | 73 | 3 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, # | - | 0 | 0 | - | 0 | - |
| Grade, % | - | -1 | 4 | - | 3 | - |
| Peak Hour Factor | 75 | 75 | 75 | 75 | 75 | 75 |
| Heavy Vehicles, % | 2 | 5 | 13 | 6 | 12 | 67 |
| Mvmt Flow | 5 | 96 | 60 | 37 | 97 | 4 |

| Major/Minor | Major1 | Major2 | Minor2 |
|-------------|--------|--------|--------|
|-------------|--------|--------|--------|

| | | | | | |
|----------------------|-------|---|---|-------|-------|
| Conflicting Flow All | 97 | 0 | 0 | 185 | 79 |
| Stage 1 | - | - | - | 79 | - |
| Stage 2 | - | - | - | 106 | - |
| Critical Hdwy | 4.12 | - | - | 7.12 | 7.17 |
| Critical Hdwy Stg 1 | - | - | - | 6.12 | - |
| Critical Hdwy Stg 2 | - | - | - | 6.12 | - |
| Follow-up Hdwy | 2.218 | - | - | 3.608 | 3.903 |
| Pot Cap-1 Maneuver | 1496 | - | - | 758 | 822 |
| Stage 1 | - | - | - | 907 | - |
| Stage 2 | - | - | - | 878 | - |
| Platoon blocked, % | - | - | - | - | - |
| Mov Cap-1 Maneuver | 1496 | - | - | 755 | 822 |
| Mov Cap-2 Maneuver | - | - | - | 755 | - |
| Stage 1 | - | - | - | 903 | - |
| Stage 2 | - | - | - | 878 | - |

| Approach | EB | WB | SB |
|----------|----|----|----|
|----------|----|----|----|

| | | | |
|----------------------|-----|---|------|
| HCM Control Delay, s | 0.4 | 0 | 10.5 |
| HCM LOS | | | B |

| Minor Lane/Major Mvmt | EBL | EBT | WBT | WBR | SBLn1 |
|-----------------------|-----|-----|-----|-----|-------|
|-----------------------|-----|-----|-----|-----|-------|

| | | | | | |
|-----------------------|-------|---|---|---|-------|
| Capacity (veh/h) | 1496 | - | - | - | 757 |
| HCM Lane V/C Ratio | 0.004 | - | - | - | 0.134 |
| HCM Control Delay (s) | 7.4 | 0 | - | - | 10.5 |
| HCM Lane LOS | A | A | - | - | B |
| HCM 95th %tile Q(veh) | 0 | - | - | - | 0.5 |

2022 Existing Traffic Volumes
7: Garden Lane & Crompond Road

Peak AM Hour
06/03/2022



| Lane Group | EBT | EBR | WBL | WBT | NBL | NBR |
|----------------------------|-------|-------|------|-------|-------|-------|
| Lane Configurations | | | | | | |
| Traffic Volume (vph) | 1177 | 15 | 35 | 763 | 1 | 23 |
| Future Volume (vph) | 1177 | 15 | 35 | 763 | 1 | 23 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Lane Width (ft) | 15 | 12 | 12 | 15 | 13 | 12 |
| Grade (%) | 0% | | | 1% | -2% | |
| Lane Util. Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Frt | 0.998 | | | | 0.870 | |
| Flt Protected | | | | 0.998 | 0.998 | |
| Satd. Flow (prot) | 2022 | 0 | 0 | 1978 | 1657 | 0 |
| Flt Permitted | | | | 0.998 | 0.998 | |
| Satd. Flow (perm) | 2022 | 0 | 0 | 1978 | 1657 | 0 |
| Link Speed (mph) | 45 | | | 45 | 30 | |
| Link Distance (ft) | 745 | | | 1084 | 732 | |
| Travel Time (s) | 11.3 | | | 16.4 | 16.6 | |
| Peak Hour Factor | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Heavy Vehicles (%) | 3% | 15% | 3% | 5% | 2% | 4% |
| Adj. Flow (vph) | 1239 | 16 | 37 | 803 | 1 | 24 |
| Shared Lane Traffic (%) | | | | | | |
| Lane Group Flow (vph) | 1255 | 0 | 0 | 840 | 25 | 0 |
| Enter Blocked Intersection | No | No | No | No | No | No |
| Lane Alignment | Left | Right | Left | Left | Left | Right |
| Median Width(ft) | 0 | | | 0 | 13 | |
| Link Offset(ft) | 0 | | | 0 | 0 | |
| Crosswalk Width(ft) | 16 | | | 16 | 16 | |
| Two way Left Turn Lane | | | | | | |
| Headway Factor | 0.88 | 1.00 | 1.01 | 0.89 | 0.95 | 0.99 |
| Turning Speed (mph) | | 9 | 15 | | 15 | 9 |
| Sign Control | Free | | | Free | Stop | |

Intersection Summary

Area Type: Other
Control Type: Unsignalized

2022 Existing Traffic Volumes
7: Garden Lane & Crompond Road

Peak AM Hour
06/03/2022

| Intersection | | | | | | |
|--------------------------|--------|--------|--------|-------|-------|-------|
| Int Delay, s/veh | 0.5 | | | | | |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | ↑ | | | ↑ | ↑ | |
| Traffic Vol, veh/h | 1177 | 15 | 35 | 763 | 1 | 23 |
| Future Vol, veh/h | 1177 | 15 | 35 | 763 | 1 | 23 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 1 | -2 | - |
| Peak Hour Factor | 95 | 95 | 95 | 95 | 95 | 95 |
| Heavy Vehicles, % | 3 | 15 | 3 | 5 | 2 | 4 |
| Mvmt Flow | 1239 | 16 | 37 | 803 | 1 | 24 |
| Major/Minor | Major1 | Major2 | Minor1 | | | |
| Conflicting Flow All | 0 | 0 | 1255 | 0 | 2124 | 1247 |
| Stage 1 | - | - | - | - | 1247 | - |
| Stage 2 | - | - | - | - | 877 | - |
| Critical Hdwy | - | - | 4.13 | - | 6.02 | 6.04 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.02 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.02 | - |
| Follow-up Hdwy | - | - | 2.227 | - | 3.518 | 3.336 |
| Pot Cap-1 Maneuver | - | - | 551 | - | 70 | 225 |
| Stage 1 | - | - | - | - | 311 | - |
| Stage 2 | - | - | - | - | 449 | - |
| Platoon blocked, % | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | - | - | 551 | - | 62 | 225 |
| Mov Cap-2 Maneuver | - | - | - | - | 62 | - |
| Stage 1 | - | - | - | - | 311 | - |
| Stage 2 | - | - | - | - | 395 | - |
| Approach | EB | WB | NB | | | |
| HCM Control Delay, s | 0 | 0.5 | 25.2 | | | |
| HCM LOS | D | | | | | |
| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBL | WBT | |
| Capacity (veh/h) | 203 | - | - | 551 | - | |
| HCM Lane V/C Ratio | 0.124 | - | - | 0.067 | - | |
| HCM Control Delay (s) | 25.2 | - | - | 12 | 0 | |
| HCM Lane LOS | D | - | - | B | A | |
| HCM 95th %tile Q(veh) | 0.4 | - | - | 0.2 | - | |

2022 Existing Traffic Volumes
1: Catherine Street & Old Crompond Road

Peak PM Hour
06/07/2022



| Lane Group | EBT | EBR | WBL | WBT | NBL | NBR |
|----------------------------|-------|-------|------|-------|-------|-------|
| Lane Configurations | | | | | | |
| Traffic Volume (vph) | 31 | 77 | 143 | 137 | 65 | 82 |
| Future Volume (vph) | 31 | 77 | 143 | 137 | 65 | 82 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Lane Width (ft) | 11 | 12 | 12 | 11 | 12 | 12 |
| Grade (%) | -4% | | | 2% | -10% | |
| Lane Util. Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Frt | 0.904 | | | | 0.925 | |
| Flt Protected | | | | 0.975 | 0.978 | |
| Satd. Flow (prot) | 1660 | 0 | 0 | 1738 | 1747 | 0 |
| Flt Permitted | | | | 0.975 | 0.978 | |
| Satd. Flow (perm) | 1660 | 0 | 0 | 1738 | 1747 | 0 |
| Link Speed (mph) | 30 | | | 30 | 30 | |
| Link Distance (ft) | 170 | | | 1649 | 587 | |
| Travel Time (s) | 3.9 | | | 37.5 | 13.3 | |
| Peak Hour Factor | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 |
| Heavy Vehicles (%) | 2% | 2% | 2% | 2% | 5% | 2% |
| Adj. Flow (vph) | 36 | 90 | 166 | 159 | 76 | 95 |
| Shared Lane Traffic (%) | | | | | | |
| Lane Group Flow (vph) | 126 | 0 | 0 | 325 | 171 | 0 |
| Enter Blocked Intersection | No | No | No | No | No | No |
| Lane Alignment | Left | Right | Left | Left | Left | Right |
| Median Width(ft) | 0 | | | 0 | 12 | |
| Link Offset(ft) | 0 | | | 0 | 0 | |
| Crosswalk Width(ft) | 16 | | | 16 | 16 | |
| Two way Left Turn Lane | | | | | | |
| Headway Factor | 1.02 | 0.97 | 1.01 | 1.06 | 0.94 | 0.94 |
| Turning Speed (mph) | 9 | | 15 | 15 | | 9 |
| Sign Control | Free | | | Free | Stop | |

Intersection Summary

Area Type: Other

Control Type: Unsignalized

2022 Existing Traffic Volumes
1: Catherine Street & Old Crompond Road

Peak PM Hour
06/07/2022

Intersection

Int Delay, s/veh 5.2

| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
|--------------------------|------|------|------|------|------|------|
| Lane Configurations | ↑ | | | ↑ | ↑ | |
| Traffic Vol, veh/h | 31 | 77 | 143 | 137 | 65 | 82 |
| Future Vol, veh/h | 31 | 77 | 143 | 137 | 65 | 82 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | -4 | - | - | 2 | -10 | - |
| Peak Hour Factor | 86 | 86 | 86 | 86 | 86 | 86 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 5 | 2 |
| Mvmt Flow | 36 | 90 | 166 | 159 | 76 | 95 |

| Major/Minor | Major1 | Major2 | Minor1 | Minor2 | Minor3 |
|----------------------|--------|--------|--------|--------|--------|
| Conflicting Flow All | 0 | 0 | 126 | 0 | 572 |
| Stage 1 | - | - | - | - | 81 |
| Stage 2 | - | - | - | - | 491 |
| Critical Hdwy | - | - | 4.12 | - | 4.45 |
| Critical Hdwy Stg 1 | - | - | - | - | 3.45 |
| Critical Hdwy Stg 2 | - | - | - | - | 3.45 |
| Follow-up Hdwy | - | - | 2.218 | - | 3.545 |
| Pot Cap-1 Maneuver | - | - | 1460 | - | 655 |
| Stage 1 | - | - | - | - | 978 |
| Stage 2 | - | - | - | - | 800 |
| Platoon blocked, % | - | - | - | - | - |
| Mov Cap-1 Maneuver | - | - | 1460 | - | 573 |
| Mov Cap-2 Maneuver | - | - | - | - | 573 |
| Stage 1 | - | - | - | - | 978 |
| Stage 2 | - | - | - | - | 700 |

| Approach | EB | WB | NB |
|----------------------|----|----|------|
| HCM Control Delay, s | 0 | 4 | 11.2 |
| HCM LOS | | | B |

| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBL | WBT |
|-----------------------|-------|-----|-----|-------|-----|
| Capacity (veh/h) | 752 | - | - | 1460 | - |
| HCM Lane V/C Ratio | 0.227 | - | - | 0.114 | - |
| HCM Control Delay (s) | 11.2 | - | - | 7.8 | 0 |
| HCM Lane LOS | B | - | - | A | A |
| HCM 95th %tile Q(veh) | 0.9 | - | - | 0.4 | - |

2022 Existing Traffic Volumes
2: Catherine Street & Depeyster Drive/Field Home

Peak PM Hour
06/07/2022



| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|----------------------------|------|-------|-------|------|-------|-------|------|-------|-------|------|-------|-------|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Volume (vph) | 3 | 0 | 2 | 13 | 0 | 60 | 1 | 84 | 7 | 18 | 191 | 11 |
| Future Volume (vph) | 3 | 0 | 2 | 13 | 0 | 60 | 1 | 84 | 7 | 18 | 191 | 11 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Lane Width (ft) | 12 | 11 | 12 | 12 | 12 | 12 | 12 | 13 | 12 | 12 | 13 | 12 |
| Grade (%) | | 1% | | | -2% | | | 0% | | | 0% | |
| Lane Util. Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Frt | | 0.946 | | | 0.889 | | | 0.990 | | | 0.993 | |
| Flt Protected | | 0.971 | | | 0.991 | | | 0.999 | | | 0.996 | |
| Satd. Flow (prot) | 0 | 1646 | 0 | 0 | 1637 | 0 | 0 | 1904 | 0 | 0 | 1904 | 0 |
| Flt Permitted | | 0.971 | | | 0.991 | | | 0.999 | | | 0.996 | |
| Satd. Flow (perm) | 0 | 1646 | 0 | 0 | 1637 | 0 | 0 | 1904 | 0 | 0 | 1904 | 0 |
| Link Speed (mph) | | 30 | | | 30 | | | 30 | | | 30 | |
| Link Distance (ft) | | 322 | | | 241 | | | 1150 | | | 418 | |
| Travel Time (s) | | 7.3 | | | 5.5 | | | 26.1 | | | 9.5 | |
| Peak Hour Factor | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 |
| Heavy Vehicles (%) | 2% | 2% | 2% | 9% | 2% | 2% | 2% | 2% | 2% | 2% | 2% | 2% |
| Adj. Flow (vph) | 3 | 0 | 2 | 14 | 0 | 64 | 1 | 89 | 7 | 19 | 203 | 12 |
| Shared Lane Traffic (%) | | | | | | | | | | | | |
| Lane Group Flow (vph) | 0 | 5 | 0 | 0 | 78 | 0 | 0 | 97 | 0 | 0 | 234 | 0 |
| Enter Blocked Intersection | No | No | No | No | No | No | No | No | No | No | No | No |
| Lane Alignment | Left | Left | Right | Left | Left | Right | Left | Left | Right | Left | Left | Right |
| Median Width(ft) | | 0 | | | 0 | | | 0 | | | 0 | |
| Link Offset(ft) | | 0 | | | 0 | | | 0 | | | 0 | |
| Crosswalk Width(ft) | | 16 | | | 16 | | | 16 | | | 16 | |
| Two way Left Turn Lane | | | | | | | | | | | | |
| Headway Factor | 1.01 | 1.05 | 1.01 | 0.99 | 0.99 | 0.99 | 1.00 | 0.96 | 1.00 | 1.00 | 0.96 | 1.00 |
| Turning Speed (mph) | 15 | | 9 | 15 | | 9 | 15 | | 9 | 15 | | 9 |
| Sign Control | | Free | | | Free | | | Stop | | | Stop | |

Intersection Summary

Area Type: Other

Control Type: Unsignalized

2022 Existing Traffic Volumes
2: Catherine Street & Depeyster Drive/Field Home

Peak PM Hour
06/07/2022

| Intersection | | | | | | | | | | | | |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Int Delay, s/veh | 8.9 | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | | ↔ | | | ↔ | | | ↔ | | | ↔ | |
| Traffic Vol, veh/h | 3 | 0 | 2 | 13 | 0 | 60 | 1 | 84 | 7 | 18 | 191 | 11 |
| Future Vol, veh/h | 3 | 0 | 2 | 13 | 0 | 60 | 1 | 84 | 7 | 18 | 191 | 11 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 1 | - | - | -2 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 |
| Heavy Vehicles, % | 2 | 2 | 2 | 9 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 3 | 0 | 2 | 14 | 0 | 64 | 1 | 89 | 7 | 19 | 203 | 12 |

| Major/Minor | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
|----------------------|--------|---|---|--------|---|---|--------|-------|-------|--------|-------|-------|
| Conflicting Flow All | 64 | 0 | 0 | 2 | 0 | 0 | 175 | 99 | 1 | 115 | 68 | 32 |
| Stage 1 | - | - | - | - | - | - | 7 | 7 | - | 60 | 60 | - |
| Stage 2 | - | - | - | - | - | - | 168 | 92 | - | 55 | 8 | - |
| Critical Hdwy | 4.12 | - | - | 4.19 | - | - | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Follow-up Hdwy | 2.218 | - | - | 2.281 | - | - | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 |
| Pot Cap-1 Maneuver | 1538 | - | - | 1576 | - | - | 788 | 791 | 1084 | 862 | 823 | 1042 |
| Stage 1 | - | - | - | - | - | - | 1015 | 890 | - | 951 | 845 | - |
| Stage 2 | - | - | - | - | - | - | 834 | 819 | - | 957 | 889 | - |
| Platoon blocked, % | - | - | - | - | - | - | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | 1538 | - | - | 1576 | - | - | 624 | 782 | 1084 | 775 | 814 | 1042 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 624 | 782 | - | 775 | 814 | - |
| Stage 1 | - | - | - | - | - | - | 1013 | 888 | - | 949 | 837 | - |
| Stage 2 | - | - | - | - | - | - | 619 | 812 | - | 853 | 887 | - |

| Approach | EB | | | WB | | | NB | | | SB | | |
|----------------------|-----|--|--|-----|--|--|------|--|--|------|--|--|
| HCM Control Delay, s | 4.4 | | | 1.3 | | | 10.1 | | | 11.1 | | |
| HCM LOS | | | | | | | B | | | B | | |

| Minor Lane/Major Mvmt | NBLn1 | EBL | EBT | EBR | WBL | WBT | WBR | SBLn1 |
|-----------------------|-------|-------|-----|-----|-------|-----|-----|-------|
| Capacity (veh/h) | 797 | 1538 | - | - | 1576 | - | - | 820 |
| HCM Lane V/C Ratio | 0.123 | 0.002 | - | - | 0.009 | - | - | 0.285 |
| HCM Control Delay (s) | 10.1 | 7.3 | 0 | - | 7.3 | 0 | - | 11.1 |
| HCM Lane LOS | B | A | A | - | A | A | - | B |
| HCM 95th %tile Q(veh) | 0.4 | 0 | - | - | 0 | - | - | 1.2 |

2022 Existing Traffic Volumes
3: Jacob Road & Catherine Street

Peak PM Hour
06/07/2022



| Lane Group | EBL | EBT | WBT | WBR | SBL | SBR |
|----------------------------|------|-------|-------|-------|-------|-------|
| Lane Configurations | | | | | | |
| Traffic Volume (vph) | 74 | 50 | 60 | 5 | 6 | 171 |
| Future Volume (vph) | 74 | 50 | 60 | 5 | 6 | 171 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Lane Width (ft) | 12 | 13 | 10 | 12 | 12 | 12 |
| Grade (%) | | 1% | -2% | | -2% | |
| Lane Util. Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Frt | | | 0.989 | | 0.870 | |
| Flt Protected | | 0.971 | | | 0.998 | |
| Satd. Flow (prot) | 0 | 1849 | 1737 | 0 | 1625 | 0 |
| Flt Permitted | | 0.971 | | | 0.998 | |
| Satd. Flow (perm) | 0 | 1849 | 1737 | 0 | 1625 | 0 |
| Link Speed (mph) | | 30 | 30 | | 30 | |
| Link Distance (ft) | | 755 | 963 | | 1150 | |
| Travel Time (s) | | 17.2 | 21.9 | | 26.1 | |
| Peak Hour Factor | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 |
| Heavy Vehicles (%) | 3% | 2% | 2% | 2% | 17% | 2% |
| Adj. Flow (vph) | 82 | 56 | 67 | 6 | 7 | 190 |
| Shared Lane Traffic (%) | | | | | | |
| Lane Group Flow (vph) | 0 | 138 | 73 | 0 | 197 | 0 |
| Enter Blocked Intersection | No | No | No | No | No | No |
| Lane Alignment | Left | Left | Left | Right | Left | Right |
| Median Width(ft) | | 0 | 0 | | 12 | |
| Link Offset(ft) | | 0 | 0 | | 0 | |
| Crosswalk Width(ft) | | 16 | 16 | | 16 | |
| Two way Left Turn Lane | | | | | | |
| Headway Factor | 1.01 | 0.96 | 1.08 | 0.99 | 0.99 | 0.99 |
| Turning Speed (mph) | 15 | | | 9 | 15 | 9 |
| Sign Control | | Free | Free | | Stop | |

Intersection Summary

Area Type: Other

Control Type: Unsignalized

2022 Existing Traffic Volumes
3: Jacob Road & Catherine Street

Peak PM Hour
06/07/2022

Intersection

Int Delay, s/veh 6.2

| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
|--------------------------|------|------|------|------|------|------|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 74 | 50 | 60 | 5 | 6 | 171 |
| Future Vol, veh/h | 74 | 50 | 60 | 5 | 6 | 171 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, # | - | 0 | 0 | - | 0 | - |
| Grade, % | - | 1 | -2 | - | -2 | - |
| Peak Hour Factor | 90 | 90 | 90 | 90 | 90 | 90 |
| Heavy Vehicles, % | 3 | 2 | 2 | 2 | 17 | 2 |
| Mvmt Flow | 82 | 56 | 67 | 6 | 7 | 190 |

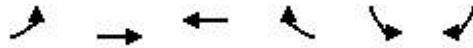
| Major/Minor | Major1 | Major2 | Minor2 | | |
|----------------------|--------|--------|--------|-------|-------|
| Conflicting Flow All | 73 | 0 | 0 | 290 | 70 |
| Stage 1 | - | - | - | 70 | - |
| Stage 2 | - | - | - | 220 | - |
| Critical Hdwy | 4.13 | - | - | 6.17 | 6.02 |
| Critical Hdwy Stg 1 | - | - | - | 5.17 | - |
| Critical Hdwy Stg 2 | - | - | - | 5.17 | - |
| Follow-up Hdwy | 2.227 | - | - | 3.653 | 3.318 |
| Pot Cap-1 Maneuver | 1520 | - | - | 692 | 997 |
| Stage 1 | - | - | - | 923 | - |
| Stage 2 | - | - | - | 802 | - |
| Platoon blocked, % | - | - | - | - | - |
| Mov Cap-1 Maneuver | 1520 | - | - | 653 | 997 |
| Mov Cap-2 Maneuver | - | - | - | 653 | - |
| Stage 1 | - | - | - | 871 | - |
| Stage 2 | - | - | - | 802 | - |

| Approach | EB | WB | SB |
|----------------------|-----|----|-----|
| HCM Control Delay, s | 4.5 | 0 | 9.6 |
| HCM LOS | | | A |

| Minor Lane/Major Mvmt | EBL | EBT | WBT | WBR | SBLn1 |
|-----------------------|-------|-----|-----|-----|-------|
| Capacity (veh/h) | 1520 | - | - | - | 980 |
| HCM Lane V/C Ratio | 0.054 | - | - | - | 0.201 |
| HCM Control Delay (s) | 7.5 | 0 | - | - | 9.6 |
| HCM Lane LOS | A | A | - | - | A |
| HCM 95th %tile Q(veh) | 0.2 | - | - | - | 0.7 |

2022 Existing Traffic Volumes
6: Old Crompond Road & Garden Lane

Peak PM Hour
06/07/2022



| Lane Group | EBL | EBT | WBT | WBR | SBL | SBR |
|-----------------------------|--------------|-------|-------|-------|-------|-------|
| Lane Configurations | | | | | | |
| Traffic Volume (vph) | 3 | 85 | 165 | 37 | 23 | 11 |
| Future Volume (vph) | 3 | 85 | 165 | 37 | 23 | 11 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Grade (%) | | -1% | 4% | | 3% | |
| Lane Util. Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Frt | | | 0.975 | | 0.957 | |
| Flt Protected | | 0.998 | | | 0.967 | |
| Satd. Flow (prot) | 0 | 1868 | 1780 | 0 | 1698 | 0 |
| Flt Permitted | | 0.998 | | | 0.967 | |
| Satd. Flow (perm) | 0 | 1868 | 1780 | 0 | 1698 | 0 |
| Link Speed (mph) | | 30 | 30 | | 30 | |
| Link Distance (ft) | | 631 | 170 | | 331 | |
| Travel Time (s) | | 14.3 | 3.9 | | 7.5 | |
| Peak Hour Factor | 0.82 | 0.82 | 0.82 | 0.82 | 0.82 | 0.82 |
| Adj. Flow (vph) | 4 | 104 | 201 | 45 | 28 | 13 |
| Shared Lane Traffic (%) | | | | | | |
| Lane Group Flow (vph) | 0 | 108 | 246 | 0 | 41 | 0 |
| Enter Blocked Intersection | No | No | No | No | No | No |
| Lane Alignment | Left | Left | Left | Right | Left | Right |
| Median Width(ft) | | 0 | 0 | | 12 | |
| Link Offset(ft) | | 0 | 0 | | 0 | |
| Crosswalk Width(ft) | | 16 | 16 | | 16 | |
| Two way Left Turn Lane | | | | | | |
| Headway Factor | 0.99 | 0.99 | 1.03 | 1.03 | 1.02 | 1.02 |
| Turning Speed (mph) | 15 | | | 9 | 15 | 9 |
| Sign Control | | Free | Free | | Stop | |
| Intersection Summary | | | | | | |
| Area Type: | Other | | | | | |
| Control Type: | Unsignalized | | | | | |

2022 Existing Traffic Volumes
6: Old Crompond Road & Garden Lane

Peak PM Hour
06/07/2022

Intersection

Int Delay, s/veh 1.2

| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
|--------------------------|------|------|------|------|------|------|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 3 | 85 | 165 | 37 | 23 | 11 |
| Future Vol, veh/h | 3 | 85 | 165 | 37 | 23 | 11 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, # | - | 0 | 0 | - | 0 | - |
| Grade, % | - | -1 | 4 | - | 3 | - |
| Peak Hour Factor | 82 | 82 | 82 | 82 | 82 | 82 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 4 | 104 | 201 | 45 | 28 | 13 |

| Major/Minor | Major1 | Major2 | Minor2 |
|-------------|--------|--------|--------|
|-------------|--------|--------|--------|

| | | | | | |
|----------------------|-------|---|---|-------|-------|
| Conflicting Flow All | 246 | 0 | 0 | 336 | 224 |
| Stage 1 | - | - | - | 224 | - |
| Stage 2 | - | - | - | 112 | - |
| Critical Hdwy | 4.12 | - | - | 7.02 | 6.52 |
| Critical Hdwy Stg 1 | - | - | - | 6.02 | - |
| Critical Hdwy Stg 2 | - | - | - | 6.02 | - |
| Follow-up Hdwy | 2.218 | - | - | 3.518 | 3.318 |
| Pot Cap-1 Maneuver | 1320 | - | - | 623 | 800 |
| Stage 1 | - | - | - | 783 | - |
| Stage 2 | - | - | - | 896 | - |
| Platoon blocked, % | - | - | - | - | - |
| Mov Cap-1 Maneuver | 1320 | - | - | 621 | 800 |
| Mov Cap-2 Maneuver | - | - | - | 621 | - |
| Stage 1 | - | - | - | 781 | - |
| Stage 2 | - | - | - | 896 | - |

| Approach | EB | WB | SB |
|----------|----|----|----|
|----------|----|----|----|

| | | | |
|----------------------|-----|---|------|
| HCM Control Delay, s | 0.3 | 0 | 10.7 |
| HCM LOS | | | B |

| Minor Lane/Major Mvmt | EBL | EBT | WBT | WBR | SBLn1 |
|-----------------------|-----|-----|-----|-----|-------|
|-----------------------|-----|-----|-----|-----|-------|

| | | | | | |
|-----------------------|-------|---|---|---|-------|
| Capacity (veh/h) | 1320 | - | - | - | 669 |
| HCM Lane V/C Ratio | 0.003 | - | - | - | 0.062 |
| HCM Control Delay (s) | 7.7 | 0 | - | - | 10.7 |
| HCM Lane LOS | A | A | - | - | B |
| HCM 95th %tile Q(veh) | 0 | - | - | - | 0.2 |

2022 Existing Traffic Volumes
7: Garden Lane & Crompond Road

Peak PM Hour
06/07/2022



| Lane Group | EBT | EBR | WBL | WBT | NBL | NBR |
|----------------------------|-------|-------|------|-------|-------|-------|
| Lane Configurations | | | | | | |
| Traffic Volume (vph) | 1022 | 15 | 23 | 1133 | 8 | 22 |
| Future Volume (vph) | 1022 | 15 | 23 | 1133 | 8 | 22 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Lane Width (ft) | 15 | 12 | 12 | 15 | 13 | 12 |
| Grade (%) | 0% | | | 1% | -2% | |
| Lane Util. Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Frt | 0.998 | | | | 0.900 | |
| Flt Protected | | | | 0.999 | 0.987 | |
| Satd. Flow (prot) | 2024 | 0 | 0 | 2015 | 1547 | 0 |
| Flt Permitted | | | | 0.999 | 0.987 | |
| Satd. Flow (perm) | 2024 | 0 | 0 | 2015 | 1547 | 0 |
| Link Speed (mph) | 45 | | | 45 | 30 | |
| Link Distance (ft) | 745 | | | 1084 | 732 | |
| Travel Time (s) | 11.3 | | | 16.4 | 16.6 | |
| Peak Hour Factor | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Heavy Vehicles (%) | 3% | 7% | 9% | 3% | 2% | 18% |
| Adj. Flow (vph) | 1076 | 16 | 24 | 1193 | 8 | 23 |
| Shared Lane Traffic (%) | | | | | | |
| Lane Group Flow (vph) | 1092 | 0 | 0 | 1217 | 31 | 0 |
| Enter Blocked Intersection | No | No | No | No | No | No |
| Lane Alignment | Left | Right | Left | Left | Left | Right |
| Median Width(ft) | 0 | | | 0 | 13 | |
| Link Offset(ft) | 0 | | | 0 | 0 | |
| Crosswalk Width(ft) | 16 | | | 16 | 16 | |
| Two way Left Turn Lane | | | | | | |
| Headway Factor | 0.88 | 1.00 | 1.01 | 0.89 | 0.95 | 0.99 |
| Turning Speed (mph) | | 9 | 15 | | 15 | 9 |
| Sign Control | Free | | | Free | Stop | |

Intersection Summary

Area Type: Other

Control Type: Unsignalized

2022 Existing Traffic Volumes
7: Garden Lane & Crompond Road

Peak PM Hour
06/07/2022

Intersection

Int Delay, s/veh 0.7

| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
|--------------------------|------|------|------|------|------|------|
| Lane Configurations | ↑ | | | ↑ | ↑ | |
| Traffic Vol, veh/h | 1022 | 15 | 23 | 1133 | 8 | 22 |
| Future Vol, veh/h | 1022 | 15 | 23 | 1133 | 8 | 22 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 1 | -2 | - |
| Peak Hour Factor | 95 | 95 | 95 | 95 | 95 | 95 |
| Heavy Vehicles, % | 3 | 7 | 9 | 3 | 2 | 18 |
| Mvmt Flow | 1076 | 16 | 24 | 1193 | 8 | 23 |

Major/Minor

| | Major1 | Major2 | Minor1 | | |
|----------------------|--------|--------|--------|---|-------------|
| Conflicting Flow All | 0 | 0 | 1092 | 0 | 2325 1084 |
| Stage 1 | - | - | - | - | 1084 - |
| Stage 2 | - | - | - | - | 1241 - |
| Critical Hdwy | - | - | 4.19 | - | 6.02 6.18 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.02 - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.02 - |
| Follow-up Hdwy | - | - | 2.281 | - | 3.518 3.462 |
| Pot Cap-1 Maneuver | - | - | 614 | - | 53 260 |
| Stage 1 | - | - | - | - | 366 - |
| Stage 2 | - | - | - | - | 313 - |
| Platoon blocked, % | - | - | - | - | - |
| Mov Cap-1 Maneuver | - | - | 614 | - | 47 260 |
| Mov Cap-2 Maneuver | - | - | - | - | 47 - |
| Stage 1 | - | - | - | - | 366 - |
| Stage 2 | - | - | - | - | 277 - |

Approach

| | EB | WB | NB |
|----------------------|----|-----|------|
| HCM Control Delay, s | 0 | 0.2 | 46.3 |
| HCM LOS | | | E |

Minor Lane/Major Mvmt

| | NBLn1 | EBT | EBR | WBL | WBT |
|-----------------------|-------|-----|-----|-------|-----|
| Capacity (veh/h) | 118 | - | - | 614 | - |
| HCM Lane V/C Ratio | 0.268 | - | - | 0.039 | - |
| HCM Control Delay (s) | 46.3 | - | - | 11.1 | 0 |
| HCM Lane LOS | E | - | - | B | A |
| HCM 95th %tile Q(veh) | 1 | - | - | 0.1 | - |

2026 No-Build Traffic Volumes
1: Catherine Street & Old Crompond Road

Peak AM Hour
06/03/2022



| Lane Group | EBT | EBR | WBL | WBT | NBL | NBR |
|----------------------------|-------|-------|------|-------|-------|-------|
| Lane Configurations | | | | | | |
| Traffic Volume (vph) | 40 | 127 | 54 | 36 | 41 | 95 |
| Future Volume (vph) | 40 | 127 | 54 | 36 | 41 | 95 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Lane Width (ft) | 11 | 12 | 12 | 11 | 12 | 12 |
| Grade (%) | -4% | | 2% | | -10% | |
| Lane Util. Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Frt | 0.897 | | | 0.905 | | |
| Flt Protected | | | | 0.971 | 0.985 | |
| Satd. Flow (prot) | 1524 | 0 | 0 | 1556 | 1585 | 0 |
| Flt Permitted | | | | 0.971 | 0.985 | |
| Satd. Flow (perm) | 1524 | 0 | 0 | 1556 | 1585 | 0 |
| Link Speed (mph) | 30 | | | 30 | 30 | |
| Link Distance (ft) | 170 | | | 1649 | 587 | |
| Travel Time (s) | 3.9 | | | 37.5 | 13.3 | |
| Peak Hour Factor | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 |
| Heavy Vehicles (%) | 11% | 10% | 2% | 31% | 15% | 11% |
| Adj. Flow (vph) | 47 | 149 | 64 | 42 | 48 | 112 |
| Shared Lane Traffic (%) | | | | | | |
| Lane Group Flow (vph) | 196 | 0 | 0 | 106 | 160 | 0 |
| Enter Blocked Intersection | No | No | No | No | No | No |
| Lane Alignment | Left | Right | Left | Left | Left | Right |
| Median Width(ft) | 0 | | | 0 | 12 | |
| Link Offset(ft) | 0 | | | 0 | 0 | |
| Crosswalk Width(ft) | 16 | | | 16 | 16 | |
| Two way Left Turn Lane | | | | | | |
| Headway Factor | 1.02 | 0.97 | 1.01 | 1.06 | 0.94 | 0.94 |
| Turning Speed (mph) | 9 | | 15 | 15 | | 9 |
| Sign Control | Free | | | Free | Stop | |

Intersection Summary

Area Type: Other

Control Type: Unsignalized

2026 No-Build Traffic Volumes
1: Catherine Street & Old Crompond Road

Peak AM Hour
06/03/2022

Intersection

Int Delay, s/veh 4.5

| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
|--------------------------|------|------|------|------|------|------|
| Lane Configurations | ↑ | | | ↑ | ↑ | |
| Traffic Vol, veh/h | 40 | 127 | 54 | 36 | 41 | 95 |
| Future Vol, veh/h | 40 | 127 | 54 | 36 | 41 | 95 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | -4 | - | - | 2 | -10 | - |
| Peak Hour Factor | 85 | 85 | 85 | 85 | 85 | 85 |
| Heavy Vehicles, % | 11 | 10 | 2 | 31 | 15 | 11 |
| Mvmt Flow | 47 | 149 | 64 | 42 | 48 | 112 |

| Major/Minor | Major1 | Major2 | Minor1 | Minor2 | Minor3 |
|----------------------|--------|--------|--------|--------|--------|
| Conflicting Flow All | 0 | 0 | 196 | 0 | 292 |
| Stage 1 | - | - | - | - | 122 |
| Stage 2 | - | - | - | - | 170 |
| Critical Hdwy | - | - | 4.12 | - | 4.55 |
| Critical Hdwy Stg 1 | - | - | - | - | 3.55 |
| Critical Hdwy Stg 2 | - | - | - | - | 3.55 |
| Follow-up Hdwy | - | - | 2.218 | - | 3.635 |
| Pot Cap-1 Maneuver | - | - | 1377 | - | 791 |
| Stage 1 | - | - | - | - | 933 |
| Stage 2 | - | - | - | - | 911 |
| Platoon blocked, % | - | - | - | - | - |
| Mov Cap-1 Maneuver | - | - | 1377 | - | 753 |
| Mov Cap-2 Maneuver | - | - | - | - | 753 |
| Stage 1 | - | - | - | - | 933 |
| Stage 2 | - | - | - | - | 867 |

| Approach | EB | WB | NB |
|----------------------|----|-----|----|
| HCM Control Delay, s | 0 | 4.6 | 10 |
| HCM LOS | | | B |

| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBL | WBT |
|-----------------------|-------|-----|-----|-------|-----|
| Capacity (veh/h) | 873 | - | - | 1377 | - |
| HCM Lane V/C Ratio | 0.183 | - | - | 0.046 | - |
| HCM Control Delay (s) | 10 | - | - | 7.7 | 0 |
| HCM Lane LOS | B | - | - | A | A |
| HCM 95th %tile Q(veh) | 0.7 | - | - | 0.1 | - |

2026 No-Build Traffic Volumes
2: Catherine Street & Depeyster Drive/Field Home

Peak AM Hour
06/03/2022



| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|----------------------------|------|-------|-------|------|-------|-------|------|-------|-------|------|-------|-------|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Volume (vph) | 5 | 0 | 3 | 6 | 0 | 18 | 3 | 112 | 22 | 33 | 146 | 2 |
| Future Volume (vph) | 5 | 0 | 3 | 6 | 0 | 18 | 3 | 112 | 22 | 33 | 146 | 2 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Lane Width (ft) | 12 | 11 | 12 | 12 | 12 | 12 | 12 | 13 | 12 | 12 | 13 | 12 |
| Grade (%) | | 1% | | | -2% | | | 0% | | | 0% | |
| Lane Util. Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Frt | | 0.946 | | | 0.900 | | | 0.978 | | | 0.998 | |
| Flt Protected | | 0.971 | | | 0.987 | | | 0.999 | | | 0.991 | |
| Satd. Flow (prot) | 0 | 1488 | 0 | 0 | 1671 | 0 | 0 | 1632 | 0 | 0 | 1804 | 0 |
| Flt Permitted | | 0.971 | | | 0.987 | | | 0.999 | | | 0.991 | |
| Satd. Flow (perm) | 0 | 1488 | 0 | 0 | 1671 | 0 | 0 | 1632 | 0 | 0 | 1804 | 0 |
| Link Speed (mph) | | 30 | | | 30 | | | 30 | | | 30 | |
| Link Distance (ft) | | 322 | | | 241 | | | 1150 | | | 418 | |
| Travel Time (s) | | 7.3 | | | 5.5 | | | 26.1 | | | 9.5 | |
| Peak Hour Factor | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 |
| Heavy Vehicles (%) | 20% | 2% | 2% | 2% | 2% | 2% | 33% | 14% | 33% | 2% | 9% | 2% |
| Adj. Flow (vph) | 6 | 0 | 4 | 8 | 0 | 23 | 4 | 140 | 28 | 41 | 183 | 3 |
| Shared Lane Traffic (%) | | | | | | | | | | | | |
| Lane Group Flow (vph) | 0 | 10 | 0 | 0 | 31 | 0 | 0 | 172 | 0 | 0 | 227 | 0 |
| Enter Blocked Intersection | No | No | No | No | No | No | No | No | No | No | No | No |
| Lane Alignment | Left | Left | Right | Left | Left | Right | Left | Left | Right | Left | Left | Right |
| Median Width(ft) | | 0 | | | 0 | | | 0 | | | 0 | |
| Link Offset(ft) | | 0 | | | 0 | | | 0 | | | 0 | |
| Crosswalk Width(ft) | | 16 | | | 16 | | | 16 | | | 16 | |
| Two way Left Turn Lane | | | | | | | | | | | | |
| Headway Factor | 1.01 | 1.05 | 1.01 | 0.99 | 0.99 | 0.99 | 1.00 | 0.96 | 1.00 | 1.00 | 0.96 | 1.00 |
| Turning Speed (mph) | 15 | | 9 | 15 | | 9 | 15 | | 9 | 15 | | 9 |
| Sign Control | | Free | | | Free | | | Stop | | | Stop | |

Intersection Summary

Area Type: Other

Control Type: Unsignalized

2026 No-Build Traffic Volumes
2: Catherine Street & Depeyster Drive/Field Home

Peak AM Hour
06/03/2022

| Intersection | | | | | | | | | | | | |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Int Delay, s/veh | 10.1 | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | | ↔ | | | ↔ | | | ↔ | | | ↔ | |
| Traffic Vol, veh/h | 5 | 0 | 3 | 6 | 0 | 18 | 3 | 112 | 22 | 33 | 146 | 2 |
| Future Vol, veh/h | 5 | 0 | 3 | 6 | 0 | 18 | 3 | 112 | 22 | 33 | 146 | 2 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 1 | - | - | -2 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 |
| Heavy Vehicles, % | 20 | 2 | 2 | 2 | 2 | 2 | 33 | 14 | 33 | 2 | 9 | 2 |
| Mvmt Flow | 6 | 0 | 4 | 8 | 0 | 23 | 4 | 140 | 28 | 41 | 183 | 3 |

| Major/Minor | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
|----------------------|--------|---|---|--------|---|---|--------|-------|-------|--------|-------|-------|
| Conflicting Flow All | 23 | 0 | 0 | 4 | 0 | 0 | 135 | 53 | 2 | 126 | 44 | 12 |
| Stage 1 | - | - | - | - | - | - | 14 | 14 | - | 28 | 28 | - |
| Stage 2 | - | - | - | - | - | - | 121 | 39 | - | 98 | 16 | - |
| Critical Hdwy | 4.3 | - | - | 4.12 | - | - | 7.43 | 6.64 | 6.53 | 7.12 | 6.59 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.43 | 5.64 | - | 6.12 | 5.59 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.43 | 5.64 | - | 6.12 | 5.59 | - |
| Follow-up Hdwy | 2.38 | - | - | 2.218 | - | - | 3.797 | 4.126 | 3.597 | 3.518 | 4.081 | 3.318 |
| Pot Cap-1 Maneuver | 1483 | - | - | 1618 | - | - | 770 | 816 | 998 | 848 | 834 | 1069 |
| Stage 1 | - | - | - | - | - | - | 932 | 860 | - | 989 | 858 | - |
| Stage 2 | - | - | - | - | - | - | 814 | 839 | - | 908 | 868 | - |
| Platoon blocked, % | - | - | - | - | - | - | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | 1483 | - | - | 1618 | - | - | 633 | 809 | 998 | 711 | 826 | 1069 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 633 | 809 | - | 711 | 826 | - |
| Stage 1 | - | - | - | - | - | - | 928 | 857 | - | 985 | 854 | - |
| Stage 2 | - | - | - | - | - | - | 635 | 835 | - | 736 | 865 | - |

| Approach | EB | WB | NB | SB |
|----------------------|-----|-----|------|------|
| HCM Control Delay, s | 4.6 | 1.8 | 10.5 | 11.2 |
| HCM LOS | | | B | B |

| Minor Lane/Major Mvmt | NBLn1 | EBL | EBT | EBR | WBL | WBT | WBR | SBLn1 |
|-----------------------|-------|-------|-----|-----|-------|-----|-----|-------|
| Capacity (veh/h) | 829 | 1483 | - | - | 1618 | - | - | 804 |
| HCM Lane V/C Ratio | 0.207 | 0.004 | - | - | 0.005 | - | - | 0.281 |
| HCM Control Delay (s) | 10.5 | 7.4 | 0 | - | 7.2 | 0 | - | 11.2 |
| HCM Lane LOS | B | A | A | - | A | A | - | B |
| HCM 95th %tile Q(veh) | 0.8 | 0 | - | - | 0 | - | - | 1.2 |

2026 No-Build Traffic Volumes
3: Jacob Road & Catherine Street

Peak AM Hour
06/03/2022



| Lane Group | EBL | EBT | WBT | WBR | SBL | SBR |
|----------------------------|------|-------|-------|-------|-------|-------|
| Lane Configurations | | | | | | |
| Traffic Volume (vph) | 128 | 122 | 55 | 1 | 5 | 134 |
| Future Volume (vph) | 128 | 122 | 55 | 1 | 5 | 134 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Lane Width (ft) | 12 | 13 | 10 | 12 | 12 | 12 |
| Grade (%) | | 1% | -2% | | -2% | |
| Lane Util. Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Frt | | | 0.998 | | 0.870 | |
| Flt Protected | | 0.975 | | | 0.998 | |
| Satd. Flow (prot) | 0 | 1770 | 1752 | 0 | 1523 | 0 |
| Flt Permitted | | 0.975 | | | 0.998 | |
| Satd. Flow (perm) | 0 | 1770 | 1752 | 0 | 1523 | 0 |
| Link Speed (mph) | | 30 | 30 | | 30 | |
| Link Distance (ft) | | 755 | 963 | | 1150 | |
| Travel Time (s) | | 17.2 | 21.9 | | 26.1 | |
| Peak Hour Factor | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 |
| Heavy Vehicles (%) | 11% | 4% | 2% | 2% | 20% | 9% |
| Adj. Flow (vph) | 180 | 172 | 77 | 1 | 7 | 189 |
| Shared Lane Traffic (%) | | | | | | |
| Lane Group Flow (vph) | 0 | 352 | 78 | 0 | 196 | 0 |
| Enter Blocked Intersection | No | No | No | No | No | No |
| Lane Alignment | Left | Left | Left | Right | Left | Right |
| Median Width(ft) | | 0 | 0 | | 12 | |
| Link Offset(ft) | | 0 | 0 | | 0 | |
| Crosswalk Width(ft) | | 16 | 16 | | 16 | |
| Two way Left Turn Lane | | | | | | |
| Headway Factor | 1.01 | 0.96 | 1.08 | 0.99 | 0.99 | 0.99 |
| Turning Speed (mph) | 15 | | | 9 | 15 | 9 |
| Sign Control | | Free | Free | | Stop | |

Intersection Summary

Area Type: Other
Control Type: Unsignalized

Intersection

Int Delay, s/veh 5.4

Movement EBL EBT WBT WBR SBL SBR

| | | | | | | |
|--------------------------|------|------|------|------|------|------|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 128 | 122 | 55 | 1 | 5 | 134 |
| Future Vol, veh/h | 128 | 122 | 55 | 1 | 5 | 134 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, # | - | 0 | 0 | - | 0 | - |
| Grade, % | - | 1 | -2 | - | -2 | - |
| Peak Hour Factor | 71 | 71 | 71 | 71 | 71 | 71 |
| Heavy Vehicles, % | 11 | 4 | 2 | 2 | 20 | 9 |
| Mvmt Flow | 180 | 172 | 77 | 1 | 7 | 189 |

Major/Minor Major1 Major2 Minor2

| | | | | | | |
|----------------------|-------|---|---|---|------|-------|
| Conflicting Flow All | 78 | 0 | - | 0 | 610 | 78 |
| Stage 1 | - | - | - | - | 78 | - |
| Stage 2 | - | - | - | - | 532 | - |
| Critical Hdwy | 4.21 | - | - | - | 6.2 | 6.09 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.2 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.2 | - |
| Follow-up Hdwy | 2.299 | - | - | - | 3.68 | 3.381 |
| Pot Cap-1 Maneuver | 1465 | - | - | - | 460 | 968 |
| Stage 1 | - | - | - | - | 909 | - |
| Stage 2 | - | - | - | - | 588 | - |
| Platoon blocked, % | | - | - | - | | |
| Mov Cap-1 Maneuver | 1465 | - | - | - | 397 | 968 |
| Mov Cap-2 Maneuver | - | - | - | - | 397 | - |
| Stage 1 | - | - | - | - | 785 | - |
| Stage 2 | - | - | - | - | 588 | - |

Approach EB WB SB

| | | | |
|----------------------|---|---|----|
| HCM Control Delay, s | 4 | 0 | 10 |
| HCM LOS | | | B |

Minor Lane/Major Mvmt EBL EBT WBT WBR SBLn1

| | | | | | |
|-----------------------|-------|---|---|---|-------|
| Capacity (veh/h) | 1465 | - | - | - | 920 |
| HCM Lane V/C Ratio | 0.123 | - | - | - | 0.213 |
| HCM Control Delay (s) | 7.8 | 0 | - | - | 10 |
| HCM Lane LOS | A | A | - | - | B |
| HCM 95th %tile Q(veh) | 0.4 | - | - | - | 0.8 |

2026 No-Build Traffic Volumes
6: Old Crompond Road & Garden Lane

Peak AM Hour
06/03/2022



| Lane Group | EBL | EBT | WBT | WBR | SBL | SBR |
|----------------------------|------|-------|-------|-------|-------|-------|
| Lane Configurations | | | | | | |
| Traffic Volume (vph) | 4 | 90 | 48 | 29 | 76 | 3 |
| Future Volume (vph) | 4 | 90 | 48 | 29 | 76 | 3 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Grade (%) | | -1% | 4% | | 3% | |
| Lane Util. Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Frt | | | 0.949 | | 0.995 | |
| Flt Protected | | 0.998 | | | 0.954 | |
| Satd. Flow (prot) | 0 | 1817 | 1601 | 0 | 1557 | 0 |
| Flt Permitted | | 0.998 | | | 0.954 | |
| Satd. Flow (perm) | 0 | 1817 | 1601 | 0 | 1557 | 0 |
| Link Speed (mph) | | 30 | 30 | | 30 | |
| Link Distance (ft) | | 631 | 170 | | 331 | |
| Travel Time (s) | | 14.3 | 3.9 | | 7.5 | |
| Peak Hour Factor | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 |
| Heavy Vehicles (%) | 2% | 5% | 13% | 6% | 12% | 67% |
| Adj. Flow (vph) | 5 | 120 | 64 | 39 | 101 | 4 |
| Shared Lane Traffic (%) | | | | | | |
| Lane Group Flow (vph) | 0 | 125 | 103 | 0 | 105 | 0 |
| Enter Blocked Intersection | No | No | No | No | No | No |
| Lane Alignment | Left | Left | Left | Right | Left | Right |
| Median Width(ft) | | 0 | 0 | | 12 | |
| Link Offset(ft) | | 0 | 0 | | 0 | |
| Crosswalk Width(ft) | | 16 | 16 | | 16 | |
| Two way Left Turn Lane | | | | | | |
| Headway Factor | 0.99 | 0.99 | 1.03 | 1.03 | 1.02 | 1.02 |
| Turning Speed (mph) | 15 | | | 9 | 15 | 9 |
| Sign Control | | Free | Free | | Stop | |

Intersection Summary

Area Type: Other
Control Type: Unsignalized

Intersection

Int Delay, s/veh 3.5

| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
|--------------------------|------|------|------|------|------|------|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 4 | 90 | 48 | 29 | 76 | 3 |
| Future Vol, veh/h | 4 | 90 | 48 | 29 | 76 | 3 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, # | - | 0 | 0 | - | 0 | - |
| Grade, % | - | -1 | 4 | - | 3 | - |
| Peak Hour Factor | 75 | 75 | 75 | 75 | 75 | 75 |
| Heavy Vehicles, % | 2 | 5 | 13 | 6 | 12 | 67 |
| Mvmt Flow | 5 | 120 | 64 | 39 | 101 | 4 |

Major/Minor

| | Major1 | Major2 | Minor2 | | |
|----------------------|--------|--------|--------|---|-------------|
| Conflicting Flow All | 103 | 0 | - | 0 | 214 84 |
| Stage 1 | - | - | - | - | 84 - |
| Stage 2 | - | - | - | - | 130 - |
| Critical Hdwy | 4.12 | - | - | - | 7.12 7.17 |
| Critical Hdwy Stg 1 | - | - | - | - | 6.12 - |
| Critical Hdwy Stg 2 | - | - | - | - | 6.12 - |
| Follow-up Hdwy | 2.218 | - | - | - | 3.608 3.903 |
| Pot Cap-1 Maneuver | 1489 | - | - | - | 726 816 |
| Stage 1 | - | - | - | - | 902 - |
| Stage 2 | - | - | - | - | 853 - |
| Platoon blocked, % | | - | - | - | |
| Mov Cap-1 Maneuver | 1489 | - | - | - | 723 816 |
| Mov Cap-2 Maneuver | - | - | - | - | 723 - |
| Stage 1 | - | - | - | - | 898 - |
| Stage 2 | - | - | - | - | 853 - |

Approach

| | EB | WB | SB |
|----------------------|-----|----|------|
| HCM Control Delay, s | 0.3 | 0 | 10.8 |
| HCM LOS | | | B |

Minor Lane/Major Mvmt

| | EBL | EBT | WBT | WBR | SBLn1 |
|-----------------------|-------|-----|-----|-----|-------|
| Capacity (veh/h) | 1489 | - | - | - | 726 |
| HCM Lane V/C Ratio | 0.004 | - | - | - | 0.145 |
| HCM Control Delay (s) | 7.4 | 0 | - | - | 10.8 |
| HCM Lane LOS | A | A | - | - | B |
| HCM 95th %tile Q(veh) | 0 | - | - | - | 0.5 |

2026 No-Build Traffic Volumes
7: Garden Lane & Crompond Road

Peak AM Hour
06/03/2022



| Lane Group | EBT | EBR | WBL | WBT | NBL | NBR |
|----------------------------|-------|-------|------|-------|-------|-------|
| Lane Configurations | | | | | | |
| Traffic Volume (vph) | 1224 | 16 | 36 | 794 | 1 | 24 |
| Future Volume (vph) | 1224 | 16 | 36 | 794 | 1 | 24 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Lane Width (ft) | 15 | 12 | 12 | 15 | 13 | 12 |
| Grade (%) | 0% | | | 1% | -2% | |
| Lane Util. Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Frt | 0.998 | | | | 0.870 | |
| Flt Protected | | | | 0.998 | 0.998 | |
| Satd. Flow (prot) | 2022 | 0 | 0 | 1978 | 1657 | 0 |
| Flt Permitted | | | | 0.998 | 0.998 | |
| Satd. Flow (perm) | 2022 | 0 | 0 | 1978 | 1657 | 0 |
| Link Speed (mph) | 45 | | | 45 | 30 | |
| Link Distance (ft) | 745 | | | 1084 | 732 | |
| Travel Time (s) | 11.3 | | | 16.4 | 16.6 | |
| Peak Hour Factor | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Heavy Vehicles (%) | 3% | 15% | 3% | 5% | 2% | 4% |
| Adj. Flow (vph) | 1288 | 17 | 38 | 836 | 1 | 25 |
| Shared Lane Traffic (%) | | | | | | |
| Lane Group Flow (vph) | 1305 | 0 | 0 | 874 | 26 | 0 |
| Enter Blocked Intersection | No | No | No | No | No | No |
| Lane Alignment | Left | Right | Left | Left | Left | Right |
| Median Width(ft) | 0 | | | 0 | 13 | |
| Link Offset(ft) | 0 | | | 0 | 0 | |
| Crosswalk Width(ft) | 16 | | | 16 | 16 | |
| Two way Left Turn Lane | | | | | | |
| Headway Factor | 0.88 | 1.00 | 1.01 | 0.89 | 0.95 | 0.99 |
| Turning Speed (mph) | | 9 | 15 | | 15 | 9 |
| Sign Control | Free | | | Free | Stop | |

Intersection Summary

Area Type: Other

Control Type: Unsignalized

2026 No-Build Traffic Volumes
7: Garden Lane & Crompond Road

Peak AM Hour
06/03/2022

Intersection

Int Delay, s/veh 0.5

| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
|--------------------------|------|------|------|------|------|------|
| Lane Configurations | ↑ | | | ↑ | ↑ | |
| Traffic Vol, veh/h | 1224 | 16 | 36 | 794 | 1 | 24 |
| Future Vol, veh/h | 1224 | 16 | 36 | 794 | 1 | 24 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 1 | -2 | - |
| Peak Hour Factor | 95 | 95 | 95 | 95 | 95 | 95 |
| Heavy Vehicles, % | 3 | 15 | 3 | 5 | 2 | 4 |
| Mvmt Flow | 1288 | 17 | 38 | 836 | 1 | 25 |

Major/Minor Major1 Major2 Minor1

| | | | | | | |
|----------------------|---|---|-------|---|-------|-------|
| Conflicting Flow All | 0 | 0 | 1305 | 0 | 2209 | 1297 |
| Stage 1 | - | - | - | - | 1297 | - |
| Stage 2 | - | - | - | - | 912 | - |
| Critical Hdwy | - | - | 4.13 | - | 6.02 | 6.04 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.02 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.02 | - |
| Follow-up Hdwy | - | - | 2.227 | - | 3.518 | 3.336 |
| Pot Cap-1 Maneuver | - | - | 527 | - | 62 | 210 |
| Stage 1 | - | - | - | - | 296 | - |
| Stage 2 | - | - | - | - | 433 | - |
| Platoon blocked, % | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | - | - | 527 | - | 54 | 210 |
| Mov Cap-2 Maneuver | - | - | - | - | 54 | - |
| Stage 1 | - | - | - | - | 296 | - |
| Stage 2 | - | - | - | - | 375 | - |

Approach EB WB NB

| | | | |
|----------------------|---|-----|------|
| HCM Control Delay, s | 0 | 0.5 | 27.2 |
| HCM LOS | | | D |

Minor Lane/Major Mvmt NBLn1 EBT EBR WBL WBT

| | | | | | |
|-----------------------|------|---|---|-------|---|
| Capacity (veh/h) | 188 | - | - | 527 | - |
| HCM Lane V/C Ratio | 0.14 | - | - | 0.072 | - |
| HCM Control Delay (s) | 27.2 | - | - | 12.4 | 0 |
| HCM Lane LOS | D | - | - | B | A |
| HCM 95th %tile Q(veh) | 0.5 | - | - | 0.2 | - |

2026 No-Build Traffic Volumes
1: Catherine Street & Old Crompond Road

Peak PM Hour
06/07/2022



| Lane Group | EBT | EBR | WBL | WBT | NBL | NBR |
|----------------------------|-------|-------|------|-------|-------|-------|
| Lane Configurations | | | | | | |
| Traffic Volume (vph) | 32 | 80 | 149 | 142 | 68 | 85 |
| Future Volume (vph) | 32 | 80 | 149 | 142 | 68 | 85 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Lane Width (ft) | 11 | 12 | 12 | 11 | 12 | 12 |
| Grade (%) | -4% | | | 2% | -10% | |
| Lane Util. Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Frt | 0.903 | | | | 0.925 | |
| Flt Protected | | | | 0.975 | 0.978 | |
| Satd. Flow (prot) | 1659 | 0 | 0 | 1738 | 1747 | 0 |
| Flt Permitted | | | | 0.975 | 0.978 | |
| Satd. Flow (perm) | 1659 | 0 | 0 | 1738 | 1747 | 0 |
| Link Speed (mph) | 30 | | | 30 | 30 | |
| Link Distance (ft) | 170 | | | 1649 | 587 | |
| Travel Time (s) | 3.9 | | | 37.5 | 13.3 | |
| Peak Hour Factor | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 |
| Heavy Vehicles (%) | 2% | 2% | 2% | 2% | 5% | 2% |
| Adj. Flow (vph) | 37 | 93 | 173 | 165 | 79 | 99 |
| Shared Lane Traffic (%) | | | | | | |
| Lane Group Flow (vph) | 130 | 0 | 0 | 338 | 178 | 0 |
| Enter Blocked Intersection | No | No | No | No | No | No |
| Lane Alignment | Left | Right | Left | Left | Left | Right |
| Median Width(ft) | 0 | | | 0 | 12 | |
| Link Offset(ft) | 0 | | | 0 | 0 | |
| Crosswalk Width(ft) | 16 | | | 16 | 16 | |
| Two way Left Turn Lane | | | | | | |
| Headway Factor | 1.02 | 0.97 | 1.01 | 1.06 | 0.94 | 0.94 |
| Turning Speed (mph) | 9 | | 15 | | 15 | 9 |
| Sign Control | Free | | | Free | Stop | |

Intersection Summary

Area Type: Other

Control Type: Unsignalized

2026 No-Build Traffic Volumes
1: Catherine Street & Old Crompond Road

Peak PM Hour
06/07/2022

Intersection

Int Delay, s/veh 5.2

| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
|--------------------------|------|------|------|------|------|------|
| Lane Configurations | ↑ | | | ↑ | ↑ | |
| Traffic Vol, veh/h | 32 | 80 | 149 | 142 | 68 | 85 |
| Future Vol, veh/h | 32 | 80 | 149 | 142 | 68 | 85 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | -4 | - | - | 2 | -10 | - |
| Peak Hour Factor | 86 | 86 | 86 | 86 | 86 | 86 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 5 | 2 |
| Mvmt Flow | 37 | 93 | 173 | 165 | 79 | 99 |

| Major/Minor | Major1 | Major2 | Minor1 |
|----------------------|--------|--------|--------|
| Conflicting Flow All | 0 | 0 | 130 |
| Stage 1 | - | - | - |
| Stage 2 | - | - | - |
| Critical Hdwy | - | - | 4.12 |
| Critical Hdwy Stg 1 | - | - | - |
| Critical Hdwy Stg 2 | - | - | - |
| Follow-up Hdwy | - | - | 2.218 |
| Pot Cap-1 Maneuver | - | - | 1455 |
| Stage 1 | - | - | - |
| Stage 2 | - | - | - |
| Platoon blocked, % | - | - | - |
| Mov Cap-1 Maneuver | - | - | 1455 |
| Mov Cap-2 Maneuver | - | - | - |
| Stage 1 | - | - | - |
| Stage 2 | - | - | - |

| Approach | EB | WB | NB |
|----------------------|----|----|------|
| HCM Control Delay, s | 0 | 4 | 11.4 |
| HCM LOS | | | B |

| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBL | WBT |
|-----------------------|-------|-----|-----|-------|-----|
| Capacity (veh/h) | 740 | - | - | 1455 | - |
| HCM Lane V/C Ratio | 0.24 | - | - | 0.119 | - |
| HCM Control Delay (s) | 11.4 | - | - | 7.8 | 0 |
| HCM Lane LOS | B | - | - | A | A |
| HCM 95th %tile Q(veh) | 0.9 | - | - | 0.4 | - |

2026 No-Build Traffic Volumes
 2: Catherine Street & Depeyster Drive/Field Home

Peak PM Hour
 06/07/2022



| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|----------------------------|------|-------|-------|------|-------|-------|------|-------|-------|------|-------|-------|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Volume (vph) | 3 | 0 | 2 | 14 | 0 | 62 | 1 | 87 | 7 | 19 | 199 | 11 |
| Future Volume (vph) | 3 | 0 | 2 | 14 | 0 | 62 | 1 | 87 | 7 | 19 | 199 | 11 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Lane Width (ft) | 12 | 11 | 12 | 12 | 12 | 12 | 12 | 13 | 12 | 12 | 13 | 12 |
| Grade (%) | | 1% | | | -2% | | | 0% | | | 0% | |
| Lane Util. Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Frt | | 0.946 | | | 0.890 | | | 0.991 | | | 0.993 | |
| Flt Protected | | 0.971 | | | 0.991 | | | | | | 0.996 | |
| Satd. Flow (prot) | 0 | 1646 | 0 | 0 | 1639 | 0 | 0 | 1908 | 0 | 0 | 1904 | 0 |
| Flt Permitted | | 0.971 | | | 0.991 | | | | | | 0.996 | |
| Satd. Flow (perm) | 0 | 1646 | 0 | 0 | 1639 | 0 | 0 | 1908 | 0 | 0 | 1904 | 0 |
| Link Speed (mph) | | 30 | | | 30 | | | 30 | | | 30 | |
| Link Distance (ft) | | 322 | | | 241 | | | 1150 | | | 418 | |
| Travel Time (s) | | 7.3 | | | 5.5 | | | 26.1 | | | 9.5 | |
| Peak Hour Factor | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 |
| Heavy Vehicles (%) | 2% | 2% | 2% | 9% | 2% | 2% | 2% | 2% | 2% | 2% | 2% | 2% |
| Adj. Flow (vph) | 3 | 0 | 2 | 15 | 0 | 66 | 1 | 93 | 7 | 20 | 212 | 12 |
| Shared Lane Traffic (%) | | | | | | | | | | | | |
| Lane Group Flow (vph) | 0 | 5 | 0 | 0 | 81 | 0 | 0 | 101 | 0 | 0 | 244 | 0 |
| Enter Blocked Intersection | No | No | No | No | No | No | No | No | No | No | No | No |
| Lane Alignment | Left | Left | Right | Left | Left | Right | Left | Left | Right | Left | Left | Right |
| Median Width(ft) | | 0 | | | 0 | | | 0 | | | 0 | |
| Link Offset(ft) | | 0 | | | 0 | | | 0 | | | 0 | |
| Crosswalk Width(ft) | | 16 | | | 16 | | | 16 | | | 16 | |
| Two way Left Turn Lane | | | | | | | | | | | | |
| Headway Factor | 1.01 | 1.05 | 1.01 | 0.99 | 0.99 | 0.99 | 1.00 | 0.96 | 1.00 | 1.00 | 0.96 | 1.00 |
| Turning Speed (mph) | 15 | | 9 | 15 | | 9 | 15 | | 9 | 15 | | 9 |
| Sign Control | | Free | | | Free | | | Stop | | | Stop | |

Intersection Summary

Area Type: Other

Control Type: Unsignalized

2026 No-Build Traffic Volumes
 2: Catherine Street & Depeyster Drive/Field Home

Peak PM Hour
 06/07/2022

| Intersection | | | | | | | | | | | | |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Int Delay, s/veh | 9.1 | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | | ↔ | | | ↔ | | | ↔ | | | ↔ | |
| Traffic Vol, veh/h | 3 | 0 | 2 | 14 | 0 | 62 | 1 | 87 | 7 | 19 | 199 | 11 |
| Future Vol, veh/h | 3 | 0 | 2 | 14 | 0 | 62 | 1 | 87 | 7 | 19 | 199 | 11 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 1 | - | - | -2 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 |
| Heavy Vehicles, % | 2 | 2 | 2 | 9 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 3 | 0 | 2 | 15 | 0 | 66 | 1 | 93 | 7 | 20 | 212 | 12 |

| Major/Minor | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
|----------------------|--------|---|---|--------|---|---|--------|-------|-------|--------|-------|-------|
| Conflicting Flow All | 66 | 0 | 0 | 2 | 0 | 0 | 182 | 103 | 1 | 120 | 71 | 33 |
| Stage 1 | - | - | - | - | - | - | 7 | 7 | - | 63 | 63 | - |
| Stage 2 | - | - | - | - | - | - | 175 | 96 | - | 57 | 8 | - |
| Critical Hdwy | 4.12 | - | - | 4.19 | - | - | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Follow-up Hdwy | 2.218 | - | - | 2.281 | - | - | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 |
| Pot Cap-1 Maneuver | 1536 | - | - | 1576 | - | - | 779 | 787 | 1084 | 855 | 819 | 1041 |
| Stage 1 | - | - | - | - | - | - | 1015 | 890 | - | 948 | 842 | - |
| Stage 2 | - | - | - | - | - | - | 827 | 815 | - | 955 | 889 | - |
| Platoon blocked, % | - | - | - | - | - | - | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | 1536 | - | - | 1576 | - | - | 609 | 778 | 1084 | 765 | 809 | 1041 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 609 | 778 | - | 765 | 809 | - |
| Stage 1 | - | - | - | - | - | - | 1013 | 888 | - | 946 | 834 | - |
| Stage 2 | - | - | - | - | - | - | 604 | 807 | - | 848 | 887 | - |

| Approach | EB | | | WB | | | NB | | | SB | | |
|----------------------|-----|--|--|-----|--|--|------|--|--|------|--|--|
| HCM Control Delay, s | 4.4 | | | 1.3 | | | 10.2 | | | 11.3 | | |
| HCM LOS | | | | | | | B | | | B | | |

| Minor Lane/Major Mvmt | NBLn1 | EBL | EBT | EBR | WBL | WBT | WBR | SBLn1 |
|-----------------------|-------|-------|-----|-----|-------|-----|-----|-------|
| Capacity (veh/h) | 792 | 1536 | - | - | 1576 | - | - | 814 |
| HCM Lane V/C Ratio | 0.128 | 0.002 | - | - | 0.009 | - | - | 0.299 |
| HCM Control Delay (s) | 10.2 | 7.3 | 0 | - | 7.3 | 0 | - | 11.3 |
| HCM Lane LOS | B | A | A | - | A | A | - | B |
| HCM 95th %tile Q(veh) | 0.4 | 0 | - | - | 0 | - | - | 1.3 |

2026 No-Build Traffic Volumes
3: Jacob Road & Catherine Street

Peak PM Hour
06/07/2022



| Lane Group | EBL | EBT | WBT | WBR | SBL | SBR |
|----------------------------|------|-------|-------|-------|-------|-------|
| Lane Configurations | | | | | | |
| Traffic Volume (vph) | 77 | 52 | 62 | 5 | 6 | 178 |
| Future Volume (vph) | 77 | 52 | 62 | 5 | 6 | 178 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Lane Width (ft) | 12 | 13 | 10 | 12 | 12 | 12 |
| Grade (%) | | 1% | -2% | | -2% | |
| Lane Util. Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Frt | | | 0.989 | | 0.870 | |
| Flt Protected | | 0.971 | | | 0.998 | |
| Satd. Flow (prot) | 0 | 1849 | 1737 | 0 | 1625 | 0 |
| Flt Permitted | | 0.971 | | | 0.998 | |
| Satd. Flow (perm) | 0 | 1849 | 1737 | 0 | 1625 | 0 |
| Link Speed (mph) | | 30 | 30 | | 30 | |
| Link Distance (ft) | | 755 | 963 | | 1150 | |
| Travel Time (s) | | 17.2 | 21.9 | | 26.1 | |
| Peak Hour Factor | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 |
| Heavy Vehicles (%) | 3% | 2% | 2% | 2% | 17% | 2% |
| Adj. Flow (vph) | 86 | 58 | 69 | 6 | 7 | 198 |
| Shared Lane Traffic (%) | | | | | | |
| Lane Group Flow (vph) | 0 | 144 | 75 | 0 | 205 | 0 |
| Enter Blocked Intersection | No | No | No | No | No | No |
| Lane Alignment | Left | Left | Left | Right | Left | Right |
| Median Width(ft) | | 0 | 0 | | 12 | |
| Link Offset(ft) | | 0 | 0 | | 0 | |
| Crosswalk Width(ft) | | 16 | 16 | | 16 | |
| Two way Left Turn Lane | | | | | | |
| Headway Factor | 1.01 | 0.96 | 1.08 | 0.99 | 0.99 | 0.99 |
| Turning Speed (mph) | 15 | | | 9 | 15 | 9 |
| Sign Control | | Free | Free | | Stop | |

Intersection Summary

Area Type: Other
Control Type: Unsignalized

Intersection

Int Delay, s/veh 6.2

| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
|--------------------------|------|------|------|------|------|------|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 77 | 52 | 62 | 5 | 6 | 178 |
| Future Vol, veh/h | 77 | 52 | 62 | 5 | 6 | 178 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, # | - | 0 | 0 | - | 0 | - |
| Grade, % | - | 1 | -2 | - | -2 | - |
| Peak Hour Factor | 90 | 90 | 90 | 90 | 90 | 90 |
| Heavy Vehicles, % | 3 | 2 | 2 | 2 | 17 | 2 |
| Mvmt Flow | 86 | 58 | 69 | 6 | 7 | 198 |

Major/Minor

| | Major1 | Major2 | Minor2 | | |
|----------------------|--------|--------|--------|---|-------------|
| Conflicting Flow All | 75 | 0 | - | 0 | 302 72 |
| Stage 1 | - | - | - | - | 72 - |
| Stage 2 | - | - | - | - | 230 - |
| Critical Hdwy | 4.13 | - | - | - | 6.17 6.02 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.17 - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.17 - |
| Follow-up Hdwy | 2.227 | - | - | - | 3.653 3.318 |
| Pot Cap-1 Maneuver | 1518 | - | - | - | 682 994 |
| Stage 1 | - | - | - | - | 922 - |
| Stage 2 | - | - | - | - | 794 - |
| Platoon blocked, % | | - | - | - | |
| Mov Cap-1 Maneuver | 1518 | - | - | - | 642 994 |
| Mov Cap-2 Maneuver | - | - | - | - | 642 - |
| Stage 1 | - | - | - | - | 868 - |
| Stage 2 | - | - | - | - | 794 - |

Approach

| | EB | WB | SB |
|----------------------|-----|----|-----|
| HCM Control Delay, s | 4.5 | 0 | 9.7 |
| HCM LOS | | | A |

Minor Lane/Major Mvmt

| | EBL | EBT | WBT | WBR | SBLn1 |
|-----------------------|-------|-----|-----|-----|-------|
| Capacity (veh/h) | 1518 | - | - | - | 977 |
| HCM Lane V/C Ratio | 0.056 | - | - | - | 0.209 |
| HCM Control Delay (s) | 7.5 | 0 | - | - | 9.7 |
| HCM Lane LOS | A | A | - | - | A |
| HCM 95th %tile Q(veh) | 0.2 | - | - | - | 0.8 |

2026 No-Build Traffic Volumes
6: Old Crompond Road & Garden Lane

Peak PM Hour
06/07/2022



| Lane Group | EBL | EBT | WBT | WBR | SBL | SBR |
|-----------------------------|--------------|-------|-------|-------|-------|-------|
| Lane Configurations | | | | | | |
| Traffic Volume (vph) | 3 | 88 | 172 | 38 | 24 | 11 |
| Future Volume (vph) | 3 | 88 | 172 | 38 | 24 | 11 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Grade (%) | | -1% | 4% | | 3% | |
| Lane Util. Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Frt | | | 0.976 | | 0.958 | |
| Flt Protected | | 0.998 | | | 0.967 | |
| Satd. Flow (prot) | 0 | 1868 | 1782 | 0 | 1700 | 0 |
| Flt Permitted | | 0.998 | | | 0.967 | |
| Satd. Flow (perm) | 0 | 1868 | 1782 | 0 | 1700 | 0 |
| Link Speed (mph) | | 30 | 30 | | 30 | |
| Link Distance (ft) | | 631 | 170 | | 331 | |
| Travel Time (s) | | 14.3 | 3.9 | | 7.5 | |
| Peak Hour Factor | 0.82 | 0.82 | 0.82 | 0.82 | 0.82 | 0.82 |
| Adj. Flow (vph) | 4 | 107 | 210 | 46 | 29 | 13 |
| Shared Lane Traffic (%) | | | | | | |
| Lane Group Flow (vph) | 0 | 111 | 256 | 0 | 42 | 0 |
| Enter Blocked Intersection | No | No | No | No | No | No |
| Lane Alignment | Left | Left | Left | Right | Left | Right |
| Median Width(ft) | | 0 | 0 | | 12 | |
| Link Offset(ft) | | 0 | 0 | | 0 | |
| Crosswalk Width(ft) | | 16 | 16 | | 16 | |
| Two way Left Turn Lane | | | | | | |
| Headway Factor | 0.99 | 0.99 | 1.03 | 1.03 | 1.02 | 1.02 |
| Turning Speed (mph) | 15 | | | 9 | 15 | 9 |
| Sign Control | | Free | Free | | Stop | |
| Intersection Summary | | | | | | |
| Area Type: | Other | | | | | |
| Control Type: | Unsignalized | | | | | |

Intersection

Int Delay, s/veh 1.2

| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
|--------------------------|------|------|------|------|------|------|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 3 | 88 | 172 | 38 | 24 | 11 |
| Future Vol, veh/h | 3 | 88 | 172 | 38 | 24 | 11 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, # | - | 0 | 0 | - | 0 | - |
| Grade, % | - | -1 | 4 | - | 3 | - |
| Peak Hour Factor | 82 | 82 | 82 | 82 | 82 | 82 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 4 | 107 | 210 | 46 | 29 | 13 |

Major/Minor

| | Major1 | Major2 | Minor2 | | |
|----------------------|--------|--------|--------|-------|-------|
| Conflicting Flow All | 256 | 0 | 0 | 348 | 233 |
| Stage 1 | - | - | - | 233 | - |
| Stage 2 | - | - | - | 115 | - |
| Critical Hdwy | 4.12 | - | - | 7.02 | 6.52 |
| Critical Hdwy Stg 1 | - | - | - | 6.02 | - |
| Critical Hdwy Stg 2 | - | - | - | 6.02 | - |
| Follow-up Hdwy | 2.218 | - | - | 3.518 | 3.318 |
| Pot Cap-1 Maneuver | 1309 | - | - | 612 | 791 |
| Stage 1 | - | - | - | 775 | - |
| Stage 2 | - | - | - | 893 | - |
| Platoon blocked, % | - | - | - | - | - |
| Mov Cap-1 Maneuver | 1309 | - | - | 610 | 791 |
| Mov Cap-2 Maneuver | - | - | - | 610 | - |
| Stage 1 | - | - | - | 773 | - |
| Stage 2 | - | - | - | 893 | - |

Approach

| | EB | WB | SB |
|----------------------|-----|----|------|
| HCM Control Delay, s | 0.3 | 0 | 10.9 |
| HCM LOS | | | B |

Minor Lane/Major Mvmt

| | EBL | EBT | WBT | WBR | SBLn1 |
|-----------------------|-------|-----|-----|-----|-------|
| Capacity (veh/h) | 1309 | - | - | - | 657 |
| HCM Lane V/C Ratio | 0.003 | - | - | - | 0.065 |
| HCM Control Delay (s) | 7.8 | 0 | - | - | 10.9 |
| HCM Lane LOS | A | A | - | - | B |
| HCM 95th %tile Q(veh) | 0 | - | - | - | 0.2 |

2026 No-Build Traffic Volumes
7: Garden Lane & Crompond Road

Peak PM Hour
06/07/2022



| Lane Group | EBT | EBR | WBL | WBT | NBL | NBR |
|----------------------------|-------|-------|------|-------|-------|-------|
| Lane Configurations | | | | | | |
| Traffic Volume (vph) | 1063 | 16 | 24 | 1178 | 8 | 23 |
| Future Volume (vph) | 1063 | 16 | 24 | 1178 | 8 | 23 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Lane Width (ft) | 15 | 12 | 12 | 15 | 13 | 12 |
| Grade (%) | 0% | | | 1% | -2% | |
| Lane Util. Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Frt | 0.998 | | | | 0.899 | |
| Flt Protected | | | | 0.999 | 0.988 | |
| Satd. Flow (prot) | 2024 | 0 | 0 | 2015 | 1545 | 0 |
| Flt Permitted | | | | 0.999 | 0.988 | |
| Satd. Flow (perm) | 2024 | 0 | 0 | 2015 | 1545 | 0 |
| Link Speed (mph) | 45 | | | 45 | 30 | |
| Link Distance (ft) | 745 | | | 1084 | 732 | |
| Travel Time (s) | 11.3 | | | 16.4 | 16.6 | |
| Peak Hour Factor | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Heavy Vehicles (%) | 3% | 7% | 9% | 3% | 2% | 18% |
| Adj. Flow (vph) | 1119 | 17 | 25 | 1240 | 8 | 24 |
| Shared Lane Traffic (%) | | | | | | |
| Lane Group Flow (vph) | 1136 | 0 | 0 | 1265 | 32 | 0 |
| Enter Blocked Intersection | No | No | No | No | No | No |
| Lane Alignment | Left | Right | Left | Left | Left | Right |
| Median Width(ft) | 0 | | | 0 | 13 | |
| Link Offset(ft) | 0 | | | 0 | 0 | |
| Crosswalk Width(ft) | 16 | | | 16 | 16 | |
| Two way Left Turn Lane | | | | | | |
| Headway Factor | 0.88 | 1.00 | 1.01 | 0.89 | 0.95 | 0.99 |
| Turning Speed (mph) | | 9 | 15 | | 15 | 9 |
| Sign Control | Free | | | Free | Stop | |

Intersection Summary

Area Type: Other

Control Type: Unsignalized

2026 No-Build Traffic Volumes
7: Garden Lane & Crompond Road

Peak PM Hour
06/07/2022

Intersection

Int Delay, s/veh 0.8

| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
|--------------------------|------|------|------|------|------|------|
| Lane Configurations | ↑ | | | ↑ | ↑ | |
| Traffic Vol, veh/h | 1063 | 16 | 24 | 1178 | 8 | 23 |
| Future Vol, veh/h | 1063 | 16 | 24 | 1178 | 8 | 23 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 1 | -2 | - |
| Peak Hour Factor | 95 | 95 | 95 | 95 | 95 | 95 |
| Heavy Vehicles, % | 3 | 7 | 9 | 3 | 2 | 18 |
| Mvmt Flow | 1119 | 17 | 25 | 1240 | 8 | 24 |

Major/Minor Major1 Major2 Minor1

| | | | | | | |
|----------------------|---|---|-------|---|-------|-------|
| Conflicting Flow All | 0 | 0 | 1136 | 0 | 2418 | 1128 |
| Stage 1 | - | - | - | - | 1128 | - |
| Stage 2 | - | - | - | - | 1290 | - |
| Critical Hdwy | - | - | 4.19 | - | 6.02 | 6.18 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.02 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.02 | - |
| Follow-up Hdwy | - | - | 2.281 | - | 3.518 | 3.462 |
| Pot Cap-1 Maneuver | - | - | 590 | - | 47 | 246 |
| Stage 1 | - | - | - | - | 350 | - |
| Stage 2 | - | - | - | - | 298 | - |
| Platoon blocked, % | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | - | - | 590 | - | 41 | 246 |
| Mov Cap-2 Maneuver | - | - | - | - | 41 | - |
| Stage 1 | - | - | - | - | 350 | - |
| Stage 2 | - | - | - | - | 257 | - |

Approach EB WB NB

| | | | |
|----------------------|---|-----|------|
| HCM Control Delay, s | 0 | 0.2 | 52.8 |
| HCM LOS | | | F |

Minor Lane/Major Mvmt NBLn1 EBT EBR WBL WBT

| | | | | | |
|-----------------------|-------|---|---|-------|---|
| Capacity (veh/h) | 107 | - | - | 590 | - |
| HCM Lane V/C Ratio | 0.305 | - | - | 0.043 | - |
| HCM Control Delay (s) | 52.8 | - | - | 11.4 | 0 |
| HCM Lane LOS | F | - | - | B | A |
| HCM 95th %tile Q(veh) | 1.2 | - | - | 0.1 | - |

2026 Build Traffic Volumes
1: Catherine Street & Old Crompond Road

Peak AM Hour
06/03/2022



| Lane Group | EBT | EBR | WBL | WBT | NBL | NBR |
|----------------------------|-------|-------|------|-------|-------|-------|
| Lane Configurations | | | | | | |
| Traffic Volume (vph) | 40 | 131 | 62 | 36 | 52 | 118 |
| Future Volume (vph) | 40 | 131 | 62 | 36 | 52 | 118 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Lane Width (ft) | 11 | 12 | 12 | 11 | 12 | 12 |
| Grade (%) | -4% | | | 2% | -10% | |
| Lane Util. Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Frt | 0.897 | | | | 0.906 | |
| Flt Protected | | | | 0.969 | 0.985 | |
| Satd. Flow (prot) | 1524 | 0 | 0 | 1565 | 1586 | 0 |
| Flt Permitted | | | | 0.969 | 0.985 | |
| Satd. Flow (perm) | 1524 | 0 | 0 | 1565 | 1586 | 0 |
| Link Speed (mph) | 30 | | | 30 | 30 | |
| Link Distance (ft) | 170 | | | 1649 | 587 | |
| Travel Time (s) | 3.9 | | | 37.5 | 13.3 | |
| Peak Hour Factor | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 |
| Heavy Vehicles (%) | 11% | 10% | 2% | 31% | 15% | 11% |
| Adj. Flow (vph) | 47 | 154 | 73 | 42 | 61 | 139 |
| Shared Lane Traffic (%) | | | | | | |
| Lane Group Flow (vph) | 201 | 0 | 0 | 115 | 200 | 0 |
| Enter Blocked Intersection | No | No | No | No | No | No |
| Lane Alignment | Left | Right | Left | Left | Left | Right |
| Median Width(ft) | 0 | | | 0 | 12 | |
| Link Offset(ft) | 0 | | | 0 | 0 | |
| Crosswalk Width(ft) | 16 | | | 16 | 16 | |
| Two way Left Turn Lane | | | | | | |
| Headway Factor | 1.02 | 0.97 | 1.01 | 1.06 | 0.94 | 0.94 |
| Turning Speed (mph) | | 9 | 15 | | 15 | 9 |
| Sign Control | Free | | | Free | Stop | |

Intersection Summary

Area Type: Other

Control Type: Unsignalized

2026 Build Traffic Volumes
1: Catherine Street & Old Crompond Road

Peak AM Hour
06/03/2022

Intersection

Int Delay, s/veh 5.1

| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
|--------------------------|------|------|------|------|------|------|
| Lane Configurations | ↑ | | | ↑ | ↑ | |
| Traffic Vol, veh/h | 40 | 131 | 62 | 36 | 52 | 118 |
| Future Vol, veh/h | 40 | 131 | 62 | 36 | 52 | 118 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | -4 | - | - | 2 | -10 | - |
| Peak Hour Factor | 85 | 85 | 85 | 85 | 85 | 85 |
| Heavy Vehicles, % | 11 | 10 | 2 | 31 | 15 | 11 |
| Mvmt Flow | 47 | 154 | 73 | 42 | 61 | 139 |

| Major/Minor | Major1 | Major2 | Minor1 | Minor2 | Minor3 |
|----------------------|--------|--------|--------|--------|--------|
| Conflicting Flow All | 0 | 0 | 201 | 0 | 312 |
| Stage 1 | - | - | - | - | 124 |
| Stage 2 | - | - | - | - | 188 |
| Critical Hdwy | - | - | 4.12 | - | 4.55 |
| Critical Hdwy Stg 1 | - | - | - | - | 3.55 |
| Critical Hdwy Stg 2 | - | - | - | - | 3.55 |
| Follow-up Hdwy | - | - | 2.218 | - | 3.635 |
| Pot Cap-1 Maneuver | - | - | 1371 | - | 778 |
| Stage 1 | - | - | - | - | 932 |
| Stage 2 | - | - | - | - | 903 |
| Platoon blocked, % | - | - | - | - | - |
| Mov Cap-1 Maneuver | - | - | 1371 | - | 735 |
| Mov Cap-2 Maneuver | - | - | - | - | 735 |
| Stage 1 | - | - | - | - | 932 |
| Stage 2 | - | - | - | - | 853 |

| Approach | EB | WB | NB |
|----------------------|----|-----|------|
| HCM Control Delay, s | 0 | 4.9 | 10.4 |
| HCM LOS | | | B |

| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBL | WBT |
|-----------------------|-------|-----|-----|-------|-----|
| Capacity (veh/h) | 863 | - | - | 1371 | - |
| HCM Lane V/C Ratio | 0.232 | - | - | 0.053 | - |
| HCM Control Delay (s) | 10.4 | - | - | 7.8 | 0 |
| HCM Lane LOS | B | - | - | A | A |
| HCM 95th %tile Q(veh) | 0.9 | - | - | 0.2 | - |

2026 Build Traffic Volumes
2: Catherine Street & Depeyster Drive/Field Home

Peak AM Hour
06/03/2022



| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|----------------------------|------|-------|-------|------|-------|-------|------|-------|-------|------|-------|-------|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Volume (vph) | 5 | 0 | 3 | 6 | 0 | 18 | 3 | 116 | 22 | 33 | 157 | 2 |
| Future Volume (vph) | 5 | 0 | 3 | 6 | 0 | 18 | 3 | 116 | 22 | 33 | 157 | 2 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Lane Width (ft) | 12 | 11 | 12 | 12 | 12 | 12 | 12 | 13 | 12 | 12 | 13 | 12 |
| Grade (%) | | 1% | | | -2% | | | 0% | | | 0% | |
| Lane Util. Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Frt | | 0.946 | | | 0.900 | | | 0.979 | | | 0.998 | |
| Flt Protected | | 0.971 | | | 0.987 | | | 0.999 | | | 0.992 | |
| Satd. Flow (prot) | 0 | 1488 | 0 | 0 | 1671 | 0 | 0 | 1635 | 0 | 0 | 1804 | 0 |
| Flt Permitted | | 0.971 | | | 0.987 | | | 0.999 | | | 0.992 | |
| Satd. Flow (perm) | 0 | 1488 | 0 | 0 | 1671 | 0 | 0 | 1635 | 0 | 0 | 1804 | 0 |
| Link Speed (mph) | | 30 | | | 30 | | | 30 | | | 30 | |
| Link Distance (ft) | | 322 | | | 241 | | | 1150 | | | 418 | |
| Travel Time (s) | | 7.3 | | | 5.5 | | | 26.1 | | | 9.5 | |
| Peak Hour Factor | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 |
| Heavy Vehicles (%) | 20% | 2% | 2% | 2% | 2% | 2% | 33% | 14% | 33% | 2% | 9% | 2% |
| Adj. Flow (vph) | 6 | 0 | 4 | 8 | 0 | 23 | 4 | 145 | 28 | 41 | 196 | 3 |
| Shared Lane Traffic (%) | | | | | | | | | | | | |
| Lane Group Flow (vph) | 0 | 10 | 0 | 0 | 31 | 0 | 0 | 177 | 0 | 0 | 240 | 0 |
| Enter Blocked Intersection | No | No | No | No | No | No | No | No | No | No | No | No |
| Lane Alignment | Left | Left | Right | Left | Left | Right | Left | Left | Right | Left | Left | Right |
| Median Width(ft) | | 0 | | | 0 | | | 0 | | | 0 | |
| Link Offset(ft) | | 0 | | | 0 | | | 0 | | | 0 | |
| Crosswalk Width(ft) | | 16 | | | 16 | | | 16 | | | 16 | |
| Two way Left Turn Lane | | | | | | | | | | | | |
| Headway Factor | 1.01 | 1.05 | 1.01 | 0.99 | 0.99 | 0.99 | 1.00 | 0.96 | 1.00 | 1.00 | 0.96 | 1.00 |
| Turning Speed (mph) | 15 | | 9 | 15 | | 9 | 15 | | 9 | 15 | | 9 |
| Sign Control | | Free | | | Free | | | Stop | | | Stop | |

Intersection Summary

Area Type: Other

Control Type: Unsignalized

2026 Build Traffic Volumes
2: Catherine Street & Depeyster Drive/Field Home

Peak AM Hour
06/03/2022

Intersection

Int Delay, s/veh 10.3

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | | ↔ | | | ↔ | | | ↔ | | | ↔ | |
| Traffic Vol, veh/h | 5 | 0 | 3 | 6 | 0 | 18 | 3 | 116 | 22 | 33 | 157 | 2 |
| Future Vol, veh/h | 5 | 0 | 3 | 6 | 0 | 18 | 3 | 116 | 22 | 33 | 157 | 2 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 1 | - | - | -2 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 |
| Heavy Vehicles, % | 20 | 2 | 2 | 2 | 2 | 2 | 33 | 14 | 33 | 2 | 9 | 2 |
| Mvmt Flow | 6 | 0 | 4 | 8 | 0 | 23 | 4 | 145 | 28 | 41 | 196 | 3 |

| Major/Minor | Major1 | Major2 | Minor1 | Minor2 | | | | | | | | |
|----------------------|--------|--------|--------|--------|---|---|-------|-------|-------|-------|-------|-------|
| Conflicting Flow All | 23 | 0 | 0 | 4 | 0 | 0 | 141 | 53 | 2 | 129 | 44 | 12 |
| Stage 1 | - | - | - | - | - | - | 14 | 14 | - | 28 | 28 | - |
| Stage 2 | - | - | - | - | - | - | 127 | 39 | - | 101 | 16 | - |
| Critical Hdwy | 4.3 | - | - | 4.12 | - | - | 7.43 | 6.64 | 6.53 | 7.12 | 6.59 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.43 | 5.64 | - | 6.12 | 5.59 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.43 | 5.64 | - | 6.12 | 5.59 | - |
| Follow-up Hdwy | 2.38 | - | - | 2.218 | - | - | 3.797 | 4.126 | 3.597 | 3.518 | 4.081 | 3.318 |
| Pot Cap-1 Maneuver | 1483 | - | - | 1618 | - | - | 763 | 816 | 998 | 844 | 834 | 1069 |
| Stage 1 | - | - | - | - | - | - | 932 | 860 | - | 989 | 858 | - |
| Stage 2 | - | - | - | - | - | - | 807 | 839 | - | 905 | 868 | - |
| Platoon blocked, % | - | - | - | - | - | - | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | 1483 | - | - | 1618 | - | - | 618 | 809 | 998 | 703 | 826 | 1069 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 618 | 809 | - | 703 | 826 | - |
| Stage 1 | - | - | - | - | - | - | 928 | 857 | - | 985 | 854 | - |
| Stage 2 | - | - | - | - | - | - | 617 | 835 | - | 728 | 865 | - |

| Approach | EB | WB | NB | SB |
|----------------------|-----|-----|------|------|
| HCM Control Delay, s | 4.6 | 1.8 | 10.5 | 11.4 |
| HCM LOS | | | B | B |

| Minor Lane/Major Mvmt | NBLn1 | EBL | EBT | EBR | WBL | WBT | WBR | SBLn1 |
|-----------------------|-------|-------|-----|-----|-------|-----|-----|-------|
| Capacity (veh/h) | 828 | 1483 | - | - | 1618 | - | - | 804 |
| HCM Lane V/C Ratio | 0.213 | 0.004 | - | - | 0.005 | - | - | 0.299 |
| HCM Control Delay (s) | 10.5 | 7.4 | 0 | - | 7.2 | 0 | - | 11.4 |
| HCM Lane LOS | B | A | A | - | A | A | - | B |
| HCM 95th %tile Q(veh) | 0.8 | 0 | - | - | 0 | - | - | 1.3 |

2026 Build Traffic Volumes
3: Jacob Road & Catherine Street

Peak AM Hour
06/03/2022



| Lane Group | EBL | EBT | WBT | WBR | SBL | SBR |
|----------------------------|------|-------|-------|-------|-------|-------|
| Lane Configurations | | | | | | |
| Traffic Volume (vph) | 130 | 122 | 55 | 3 | 10 | 141 |
| Future Volume (vph) | 130 | 122 | 55 | 3 | 10 | 141 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Lane Width (ft) | 12 | 13 | 10 | 12 | 12 | 12 |
| Grade (%) | | 1% | -2% | | -2% | |
| Lane Util. Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Frt | | | 0.993 | | 0.874 | |
| Flt Protected | | 0.975 | | | 0.997 | |
| Satd. Flow (prot) | 0 | 1770 | 1744 | 0 | 1524 | 0 |
| Flt Permitted | | 0.975 | | | 0.997 | |
| Satd. Flow (perm) | 0 | 1770 | 1744 | 0 | 1524 | 0 |
| Link Speed (mph) | | 30 | 30 | | 30 | |
| Link Distance (ft) | | 755 | 963 | | 1150 | |
| Travel Time (s) | | 17.2 | 21.9 | | 26.1 | |
| Peak Hour Factor | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 |
| Heavy Vehicles (%) | 11% | 4% | 2% | 2% | 20% | 9% |
| Adj. Flow (vph) | 183 | 172 | 77 | 4 | 14 | 199 |
| Shared Lane Traffic (%) | | | | | | |
| Lane Group Flow (vph) | 0 | 355 | 81 | 0 | 213 | 0 |
| Enter Blocked Intersection | No | No | No | No | No | No |
| Lane Alignment | Left | Left | Left | Right | Left | Right |
| Median Width(ft) | | 0 | 0 | | 12 | |
| Link Offset(ft) | | 0 | 0 | | 0 | |
| Crosswalk Width(ft) | | 16 | 16 | | 16 | |
| Two way Left Turn Lane | | | | | | |
| Headway Factor | 1.01 | 0.96 | 1.08 | 0.99 | 0.99 | 0.99 |
| Turning Speed (mph) | 15 | | | 9 | 15 | 9 |
| Sign Control | | Free | Free | | Stop | |

Intersection Summary

Area Type: Other
Control Type: Unsignalized

Intersection

Int Delay, s/veh 5.6

| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
|--------------------------|------|------|------|------|------|------|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 130 | 122 | 55 | 3 | 10 | 141 |
| Future Vol, veh/h | 130 | 122 | 55 | 3 | 10 | 141 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, # | - | 0 | 0 | - | 0 | - |
| Grade, % | - | 1 | -2 | - | -2 | - |
| Peak Hour Factor | 71 | 71 | 71 | 71 | 71 | 71 |
| Heavy Vehicles, % | 11 | 4 | 2 | 2 | 20 | 9 |
| Mvmt Flow | 183 | 172 | 77 | 4 | 14 | 199 |

Major/Minor

| | Major1 | Major2 | Minor2 | | |
|----------------------|--------|--------|--------|------|-------|
| Conflicting Flow All | 81 | 0 | 0 | 617 | 79 |
| Stage 1 | - | - | - | 79 | - |
| Stage 2 | - | - | - | 538 | - |
| Critical Hdwy | 4.21 | - | - | 6.2 | 6.09 |
| Critical Hdwy Stg 1 | - | - | - | 5.2 | - |
| Critical Hdwy Stg 2 | - | - | - | 5.2 | - |
| Follow-up Hdwy | 2.299 | - | - | 3.68 | 3.381 |
| Pot Cap-1 Maneuver | 1462 | - | - | 456 | 967 |
| Stage 1 | - | - | - | 908 | - |
| Stage 2 | - | - | - | 585 | - |
| Platoon blocked, % | - | - | - | - | - |
| Mov Cap-1 Maneuver | 1462 | - | - | 393 | 967 |
| Mov Cap-2 Maneuver | - | - | - | 393 | - |
| Stage 1 | - | - | - | 783 | - |
| Stage 2 | - | - | - | 585 | - |

Approach

| | EB | WB | SB |
|----------------------|----|----|------|
| HCM Control Delay, s | 4 | 0 | 10.4 |
| HCM LOS | | | B |

Minor Lane/Major Mvmt

| | EBL | EBT | WBT | WBR | SBLn1 |
|-----------------------|-------|-----|-----|-----|-------|
| Capacity (veh/h) | 1462 | - | - | - | 882 |
| HCM Lane V/C Ratio | 0.125 | - | - | - | 0.241 |
| HCM Control Delay (s) | 7.8 | 0 | - | - | 10.4 |
| HCM Lane LOS | A | A | - | - | B |
| HCM 95th %tile Q(veh) | 0.4 | - | - | - | 0.9 |

2026 Build Traffic Volumes
4: Site Access (South) & Catherine Street

Peak AM Hour
06/03/2022



| Lane Group | WBL | WBR | NBT | NBR | SBL | SBT |
|----------------------------|-------|-------|-------|-------|------|-------|
| Lane Configurations | | | | | | |
| Traffic Volume (vph) | 7 | 16 | 136 | 2 | 6 | 146 |
| Future Volume (vph) | 7 | 16 | 136 | 2 | 6 | 146 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Grade (%) | 0% | | -2% | | | 5% |
| Lane Util. Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Frt | 0.907 | | 0.998 | | | |
| Flt Protected | 0.985 | | | | | 0.998 |
| Satd. Flow (prot) | 1664 | 0 | 1759 | 0 | 0 | 1747 |
| Flt Permitted | 0.985 | | | | | 0.998 |
| Satd. Flow (perm) | 1664 | 0 | 1759 | 0 | 0 | 1747 |
| Link Speed (mph) | 30 | | 30 | | | 30 |
| Link Distance (ft) | 264 | | 418 | | | 986 |
| Travel Time (s) | 6.0 | | 9.5 | | | 22.4 |
| Peak Hour Factor | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 |
| Heavy Vehicles (%) | 2% | 2% | 9% | 2% | 2% | 6% |
| Adj. Flow (vph) | 9 | 20 | 170 | 3 | 8 | 183 |
| Shared Lane Traffic (%) | | | | | | |
| Lane Group Flow (vph) | 29 | 0 | 173 | 0 | 0 | 191 |
| Enter Blocked Intersection | No | No | No | No | No | No |
| Lane Alignment | Left | Right | Left | Right | Left | Left |
| Median Width(ft) | 12 | | 0 | | | 0 |
| Link Offset(ft) | 0 | | 0 | | | 0 |
| Crosswalk Width(ft) | 16 | | 16 | | | 16 |
| Two way Left Turn Lane | | | | | | |
| Headway Factor | 1.00 | 1.00 | 0.99 | 0.99 | 1.03 | 1.03 |
| Turning Speed (mph) | 15 | 9 | | 9 | 15 | |
| Sign Control | Stop | | Free | | | Free |

Intersection Summary

Area Type: Other
Control Type: Unsignalized

2026 Build Traffic Volumes
4: Site Access (South) & Catherine Street

Peak AM Hour
06/03/2022

| Intersection | | | | | | |
|--------------------------|--------|----------|--------|-------|-------|------|
| Int Delay, s/veh | 0.9 | | | | | |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | Y | | B | | | 4 |
| Traffic Vol, veh/h | 7 | 16 | 136 | 2 | 6 | 146 |
| Future Vol, veh/h | 7 | 16 | 136 | 2 | 6 | 146 |
| 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 | - | -2 | - | - | 5 |
| Peak Hour Factor | 80 | 80 | 80 | 80 | 80 | 80 |
| Heavy Vehicles, % | 2 | 2 | 9 | 2 | 2 | 6 |
| Mvmt Flow | 9 | 20 | 170 | 3 | 8 | 183 |
| Major/Minor | Minor1 | Major1 | Major2 | | | |
| Conflicting Flow All | 371 | 172 | 0 | 0 | 173 | 0 |
| Stage 1 | 172 | - | - | - | - | - |
| Stage 2 | 199 | - | - | - | - | - |
| 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 | 630 | 872 | - | - | 1404 | - |
| Stage 1 | 858 | - | - | - | - | - |
| Stage 2 | 835 | - | - | - | - | - |
| Platoon blocked, % | | | - | - | - | - |
| Mov Cap-1 Maneuver | 626 | 872 | - | - | 1404 | - |
| Mov Cap-2 Maneuver | 626 | - | - | - | - | - |
| Stage 1 | 858 | - | - | - | - | - |
| Stage 2 | 830 | - | - | - | - | - |
| Approach | WB | NB | SB | | | |
| HCM Control Delay, s | 9.8 | 0 | 0.3 | | | |
| HCM LOS | A | | | | | |
| Minor Lane/Major Mvmt | NBT | NBRWBLn1 | SBL | SBT | | |
| Capacity (veh/h) | - | - | 779 | 1404 | | |
| HCM Lane V/C Ratio | - | - | 0.037 | 0.005 | | |
| HCM Control Delay (s) | - | - | 9.8 | 7.6 | | |
| HCM Lane LOS | - | - | A | A | | |
| HCM 95th %tile Q(veh) | - | - | 0.1 | 0 | | |

2026 Build Traffic Volumes
5: Catherine Street & Site Access (North)

Peak AM Hour
06/03/2022



| Lane Group | WBL | WBR | NBT | NBR | SBL | SBT |
|----------------------------|-------|-------|-------|-------|------|-------|
| Lane Configurations | | | | | | |
| Traffic Volume (vph) | 5 | 19 | 152 | 2 | 6 | 187 |
| Future Volume (vph) | 5 | 19 | 152 | 2 | 6 | 187 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Grade (%) | 0% | | -10% | | | 10% |
| Lane Util. Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Frt | 0.892 | | 0.998 | | | |
| Flt Protected | 0.990 | | | | | 0.998 |
| Satd. Flow (prot) | 1645 | 0 | 1828 | 0 | 0 | 1702 |
| Flt Permitted | 0.990 | | | | | 0.998 |
| Satd. Flow (perm) | 1645 | 0 | 1828 | 0 | 0 | 1702 |
| Link Speed (mph) | 30 | | 30 | | | 30 |
| Link Distance (ft) | 229 | | 986 | | | 587 |
| Travel Time (s) | 5.2 | | 22.4 | | | 13.3 |
| Peak Hour Factor | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 |
| Heavy Vehicles (%) | 2% | 2% | 9% | 2% | 2% | 6% |
| Adj. Flow (vph) | 6 | 24 | 190 | 3 | 8 | 234 |
| Shared Lane Traffic (%) | | | | | | |
| Lane Group Flow (vph) | 30 | 0 | 193 | 0 | 0 | 242 |
| Enter Blocked Intersection | No | No | No | No | No | No |
| Lane Alignment | Left | Right | Left | Right | Left | Left |
| Median Width(ft) | 12 | | 0 | | | 0 |
| Link Offset(ft) | 0 | | 0 | | | 0 |
| Crosswalk Width(ft) | 16 | | 16 | | | 16 |
| Two way Left Turn Lane | | | | | | |
| Headway Factor | 1.00 | 1.00 | 0.94 | 0.94 | 1.07 | 1.07 |
| Turning Speed (mph) | 15 | 9 | | 9 | 15 | |
| Sign Control | Stop | | Free | | | Free |

Intersection Summary

Area Type: Other
Control Type: Unsignalized

2026 Build Traffic Volumes
5: Catherine Street & Site Access (North)

Peak AM Hour
06/03/2022

| Intersection | | | | | | |
|--------------------------|--------|----------|--------|-------|-------|------|
| Int Delay, s/veh | 0.7 | | | | | |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | W | R | T | R | L | T |
| Traffic Vol, veh/h | 5 | 19 | 152 | 2 | 6 | 187 |
| Future Vol, veh/h | 5 | 19 | 152 | 2 | 6 | 187 |
| 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 | - | -10 | - | - | 10 |
| Peak Hour Factor | 80 | 80 | 80 | 80 | 80 | 80 |
| Heavy Vehicles, % | 2 | 2 | 9 | 2 | 2 | 6 |
| Mvmt Flow | 6 | 24 | 190 | 3 | 8 | 234 |
| Major/Minor | Minor1 | Major1 | Major2 | | | |
| Conflicting Flow All | 442 | 192 | 0 | 0 | 193 | 0 |
| Stage 1 | 192 | - | - | - | - | - |
| Stage 2 | 250 | - | - | - | - | - |
| 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 | 573 | 850 | - | - | 1380 | - |
| Stage 1 | 841 | - | - | - | - | - |
| Stage 2 | 792 | - | - | - | - | - |
| Platoon blocked, % | | | - | - | - | - |
| Mov Cap-1 Maneuver | 569 | 850 | - | - | 1380 | - |
| Mov Cap-2 Maneuver | 569 | - | - | - | - | - |
| Stage 1 | 841 | - | - | - | - | - |
| Stage 2 | 786 | - | - | - | - | - |
| Approach | WB | NB | SB | | | |
| HCM Control Delay, s | 9.9 | 0 | 0.2 | | | |
| HCM LOS | A | | | | | |
| Minor Lane/Major Mvmt | NBT | NBRWBLn1 | SBL | SBT | | |
| Capacity (veh/h) | - | - | 771 | 1380 | | |
| HCM Lane V/C Ratio | - | - | 0.039 | 0.005 | | |
| HCM Control Delay (s) | - | - | 9.9 | 7.6 | | |
| HCM Lane LOS | - | - | A | A | | |
| HCM 95th %tile Q(veh) | - | - | 0.1 | 0 | | |

2026 Build Traffic Volumes
6: Old Crompond Road & Garden Lane

Peak AM Hour
06/03/2022



| Lane Group | EBL | EBT | WBT | WBR | SBL | SBR |
|----------------------------|------|-------|-------|-------|-------|-------|
| Lane Configurations | | | | | | |
| Traffic Volume (vph) | 4 | 92 | 50 | 36 | 78 | 3 |
| Future Volume (vph) | 4 | 92 | 50 | 36 | 78 | 3 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Grade (%) | | -1% | 4% | | 3% | |
| Lane Util. Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Frt | | | 0.944 | | 0.995 | |
| Flt Protected | | 0.998 | | | 0.954 | |
| Satd. Flow (prot) | 0 | 1817 | 1597 | 0 | 1558 | 0 |
| Flt Permitted | | 0.998 | | | 0.954 | |
| Satd. Flow (perm) | 0 | 1817 | 1597 | 0 | 1558 | 0 |
| Link Speed (mph) | | 30 | 30 | | 30 | |
| Link Distance (ft) | | 631 | 170 | | 331 | |
| Travel Time (s) | | 14.3 | 3.9 | | 7.5 | |
| Peak Hour Factor | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 |
| Heavy Vehicles (%) | 2% | 5% | 13% | 6% | 12% | 67% |
| Adj. Flow (vph) | 5 | 123 | 67 | 48 | 104 | 4 |
| Shared Lane Traffic (%) | | | | | | |
| Lane Group Flow (vph) | 0 | 128 | 115 | 0 | 108 | 0 |
| Enter Blocked Intersection | No | No | No | No | No | No |
| Lane Alignment | Left | Left | Left | Right | Left | Right |
| Median Width(ft) | | 0 | 0 | | 12 | |
| Link Offset(ft) | | 0 | 0 | | 0 | |
| Crosswalk Width(ft) | | 16 | 16 | | 16 | |
| Two way Left Turn Lane | | | | | | |
| Headway Factor | 0.99 | 0.99 | 1.03 | 1.03 | 1.02 | 1.02 |
| Turning Speed (mph) | 15 | | | 9 | 15 | 9 |
| Sign Control | | Free | Free | | Stop | |

Intersection Summary

Area Type: Other
Control Type: Unsignalized

Intersection

Int Delay, s/veh 3.5

| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
|--------------------------|------|------|------|------|------|------|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 4 | 92 | 50 | 36 | 78 | 3 |
| Future Vol, veh/h | 4 | 92 | 50 | 36 | 78 | 3 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, # | - | 0 | 0 | - | 0 | - |
| Grade, % | - | -1 | 4 | - | 3 | - |
| Peak Hour Factor | 75 | 75 | 75 | 75 | 75 | 75 |
| Heavy Vehicles, % | 2 | 5 | 13 | 6 | 12 | 67 |
| Mvmt Flow | 5 | 123 | 67 | 48 | 104 | 4 |

Major/Minor

| | Major1 | Major2 | Minor2 | | |
|----------------------|--------|--------|--------|-------|-------|
| Conflicting Flow All | 115 | 0 | 0 | 224 | 91 |
| Stage 1 | - | - | - | 91 | - |
| Stage 2 | - | - | - | 133 | - |
| Critical Hdwy | 4.12 | - | - | 7.12 | 7.17 |
| Critical Hdwy Stg 1 | - | - | - | 6.12 | - |
| Critical Hdwy Stg 2 | - | - | - | 6.12 | - |
| Follow-up Hdwy | 2.218 | - | - | 3.608 | 3.903 |
| Pot Cap-1 Maneuver | 1474 | - | - | 715 | 808 |
| Stage 1 | - | - | - | 894 | - |
| Stage 2 | - | - | - | 850 | - |
| Platoon blocked, % | - | - | - | - | - |
| Mov Cap-1 Maneuver | 1474 | - | - | 712 | 808 |
| Mov Cap-2 Maneuver | - | - | - | 712 | - |
| Stage 1 | - | - | - | 890 | - |
| Stage 2 | - | - | - | 850 | - |

Approach

| | EB | WB | SB |
|----------------------|-----|----|------|
| HCM Control Delay, s | 0.3 | 0 | 10.9 |
| HCM LOS | | | B |

Minor Lane/Major Mvmt

| | EBL | EBT | WBT | WBR | SBLn1 |
|-----------------------|-------|-----|-----|-----|-------|
| Capacity (veh/h) | 1474 | - | - | - | 715 |
| HCM Lane V/C Ratio | 0.004 | - | - | - | 0.151 |
| HCM Control Delay (s) | 7.5 | 0 | - | - | 10.9 |
| HCM Lane LOS | A | A | - | - | B |
| HCM 95th %tile Q(veh) | 0 | - | - | - | 0.5 |

2026 Build Traffic Volumes
7: Garden Lane & Crompond Road

Peak AM Hour
06/03/2022



| Lane Group | EBT | EBR | WBL | WBT | NBL | NBR |
|----------------------------|-------|-------|------|-------|-------|-------|
| Lane Configurations | | | | | | |
| Traffic Volume (vph) | 1224 | 17 | 37 | 794 | 6 | 26 |
| Future Volume (vph) | 1224 | 17 | 37 | 794 | 6 | 26 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Lane Width (ft) | 15 | 12 | 12 | 15 | 13 | 12 |
| Grade (%) | 0% | | | 1% | -2% | |
| Lane Util. Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Frt | 0.998 | | | | 0.890 | |
| Flt Protected | | | | 0.998 | 0.991 | |
| Satd. Flow (prot) | 2022 | 0 | 0 | 1978 | 1688 | 0 |
| Flt Permitted | | | | 0.998 | 0.991 | |
| Satd. Flow (perm) | 2022 | 0 | 0 | 1978 | 1688 | 0 |
| Link Speed (mph) | 45 | | | 45 | 30 | |
| Link Distance (ft) | 745 | | | 1084 | 732 | |
| Travel Time (s) | 11.3 | | | 16.4 | 16.6 | |
| Peak Hour Factor | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Heavy Vehicles (%) | 3% | 15% | 3% | 5% | 2% | 4% |
| Adj. Flow (vph) | 1288 | 18 | 39 | 836 | 6 | 27 |
| Shared Lane Traffic (%) | | | | | | |
| Lane Group Flow (vph) | 1306 | 0 | 0 | 875 | 33 | 0 |
| Enter Blocked Intersection | No | No | No | No | No | No |
| Lane Alignment | Left | Right | Left | Left | Left | Right |
| Median Width(ft) | 0 | | | 0 | 13 | |
| Link Offset(ft) | 0 | | | 0 | 0 | |
| Crosswalk Width(ft) | 16 | | | 16 | 16 | |
| Two way Left Turn Lane | | | | | | |
| Headway Factor | 0.88 | 1.00 | 1.01 | 0.89 | 0.95 | 0.99 |
| Turning Speed (mph) | | 9 | 15 | | 15 | 9 |
| Sign Control | Free | | | Free | Stop | |

Intersection Summary

Area Type: Other
Control Type: Unsignalized

Intersection

Int Delay, s/veh 0.8

Movement EBT EBR WBL WBT NBL NBR

| | | | | | | |
|--------------------------|------|------|------|------|------|------|
| Lane Configurations | ↑ | | | ↑ | ↑ | |
| Traffic Vol, veh/h | 1224 | 17 | 37 | 794 | 6 | 26 |
| Future Vol, veh/h | 1224 | 17 | 37 | 794 | 6 | 26 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 1 | -2 | - |
| Peak Hour Factor | 95 | 95 | 95 | 95 | 95 | 95 |
| Heavy Vehicles, % | 3 | 15 | 3 | 5 | 2 | 4 |
| Mvmt Flow | 1288 | 18 | 39 | 836 | 6 | 27 |

Major/Minor Major1 Major2 Minor1

| | | | | | | |
|----------------------|---|---|-------|---|-------|-------|
| Conflicting Flow All | 0 | 0 | 1306 | 0 | 2211 | 1297 |
| Stage 1 | - | - | - | - | 1297 | - |
| Stage 2 | - | - | - | - | 914 | - |
| Critical Hdwy | - | - | 4.13 | - | 6.02 | 6.04 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.02 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.02 | - |
| Follow-up Hdwy | - | - | 2.227 | - | 3.518 | 3.336 |
| Pot Cap-1 Maneuver | - | - | 527 | - | 62 | 210 |
| Stage 1 | - | - | - | - | 296 | - |
| Stage 2 | - | - | - | - | 433 | - |
| Platoon blocked, % | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | - | - | 527 | - | 53 | 210 |
| Mov Cap-2 Maneuver | - | - | - | - | 53 | - |
| Stage 1 | - | - | - | - | 296 | - |
| Stage 2 | - | - | - | - | 373 | - |

Approach EB WB NB

| | | | |
|----------------------|---|-----|------|
| HCM Control Delay, s | 0 | 0.6 | 40.3 |
| HCM LOS | | | E |

Minor Lane/Major Mvmt NBLn1 EBT EBR WBL WBT

| | | | | | |
|-----------------------|------|---|---|-------|---|
| Capacity (veh/h) | 135 | - | - | 527 | - |
| HCM Lane V/C Ratio | 0.25 | - | - | 0.074 | - |
| HCM Control Delay (s) | 40.3 | - | - | 12.4 | 0 |
| HCM Lane LOS | E | - | - | B | A |
| HCM 95th %tile Q(veh) | 0.9 | - | - | 0.2 | - |

2026 Build Traffic Volumes
1: Catherine Street & Old Crompond Road

Peak PM Hour
06/07/2022



| Lane Group | EBT | EBR | WBL | WBT | NBL | NBR |
|----------------------------|-------|-------|------|-------|-------|-------|
| Lane Configurations | | | | | | |
| Traffic Volume (vph) | 32 | 91 | 171 | 142 | 74 | 99 |
| Future Volume (vph) | 32 | 91 | 171 | 142 | 74 | 99 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Lane Width (ft) | 11 | 12 | 12 | 11 | 12 | 12 |
| Grade (%) | -4% | | 2% | | -10% | |
| Lane Util. Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Frt | 0.900 | | | 0.923 | | |
| Flt Protected | | | | 0.973 | 0.979 | |
| Satd. Flow (prot) | 1653 | 0 | 0 | 1735 | 1745 | 0 |
| Flt Permitted | | | | 0.973 | 0.979 | |
| Satd. Flow (perm) | 1653 | 0 | 0 | 1735 | 1745 | 0 |
| Link Speed (mph) | 30 | | | 30 | 30 | |
| Link Distance (ft) | 170 | | | 1649 | 587 | |
| Travel Time (s) | 3.9 | | | 37.5 | 13.3 | |
| Peak Hour Factor | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 |
| Heavy Vehicles (%) | 2% | 2% | 2% | 2% | 5% | 2% |
| Adj. Flow (vph) | 37 | 106 | 199 | 165 | 86 | 115 |
| Shared Lane Traffic (%) | | | | | | |
| Lane Group Flow (vph) | 143 | 0 | 0 | 364 | 201 | 0 |
| Enter Blocked Intersection | No | No | No | No | No | No |
| Lane Alignment | Left | Right | Left | Left | Left | Right |
| Median Width(ft) | 0 | | | 0 | 12 | |
| Link Offset(ft) | 0 | | | 0 | 0 | |
| Crosswalk Width(ft) | 16 | | | 16 | 16 | |
| Two way Left Turn Lane | | | | | | |
| Headway Factor | 1.02 | 0.97 | 1.01 | 1.06 | 0.94 | 0.94 |
| Turning Speed (mph) | 9 | | 15 | 15 | | 9 |
| Sign Control | Free | | | Free | Stop | |

Intersection Summary

Area Type: Other

Control Type: Unsignalized

2026 Build Traffic Volumes
1: Catherine Street & Old Crompond Road

Peak PM Hour
06/07/2022

Intersection

Int Delay, s/veh 5.6

| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
|--------------------------|------|------|------|------|------|------|
| Lane Configurations | ↑ | | | ↑ | ↑ | |
| Traffic Vol, veh/h | 32 | 91 | 171 | 142 | 74 | 99 |
| Future Vol, veh/h | 32 | 91 | 171 | 142 | 74 | 99 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | -4 | - | - | 2 | -10 | - |
| Peak Hour Factor | 86 | 86 | 86 | 86 | 86 | 86 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 5 | 2 |
| Mvmt Flow | 37 | 106 | 199 | 165 | 86 | 115 |

| Major/Minor | Major1 | Major2 | Minor1 | Minor2 | Minor3 |
|----------------------|--------|--------|--------|--------|--------|
| Conflicting Flow All | 0 | 0 | 143 | 0 | 653 |
| Stage 1 | - | - | - | - | 90 |
| Stage 2 | - | - | - | - | 563 |
| Critical Hdwy | - | - | 4.12 | - | 4.45 |
| Critical Hdwy Stg 1 | - | - | - | - | 3.45 |
| Critical Hdwy Stg 2 | - | - | - | - | 3.45 |
| Follow-up Hdwy | - | - | 2.218 | - | 3.545 |
| Pot Cap-1 Maneuver | - | - | 1440 | - | 614 |
| Stage 1 | - | - | - | - | 973 |
| Stage 2 | - | - | - | - | 771 |
| Platoon blocked, % | - | - | - | - | - |
| Mov Cap-1 Maneuver | - | - | 1440 | - | 521 |
| Mov Cap-2 Maneuver | - | - | - | - | 521 |
| Stage 1 | - | - | - | - | 973 |
| Stage 2 | - | - | - | - | 654 |

| Approach | EB | WB | NB |
|----------------------|----|-----|----|
| HCM Control Delay, s | 0 | 4.3 | 12 |
| HCM LOS | | | B |

| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBL | WBT |
|-----------------------|-------|-----|-----|-------|-----|
| Capacity (veh/h) | 715 | - | - | 1440 | - |
| HCM Lane V/C Ratio | 0.281 | - | - | 0.138 | - |
| HCM Control Delay (s) | 12 | - | - | 7.9 | 0 |
| HCM Lane LOS | B | - | - | A | A |
| HCM 95th %tile Q(veh) | 1.2 | - | - | 0.5 | - |

2026 Build Traffic Volumes
2: Catherine Street & Depeyster Drive/Field Home

Peak PM Hour
06/07/2022



| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|----------------------------|------|-------|-------|------|-------|-------|------|-------|-------|------|-------|-------|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Volume (vph) | 3 | 0 | 2 | 14 | 0 | 62 | 1 | 98 | 7 | 19 | 205 | 11 |
| Future Volume (vph) | 3 | 0 | 2 | 14 | 0 | 62 | 1 | 98 | 7 | 19 | 205 | 11 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Lane Width (ft) | 12 | 11 | 12 | 12 | 12 | 12 | 12 | 13 | 12 | 12 | 13 | 12 |
| Grade (%) | | 1% | | | -2% | | | 0% | | | 0% | |
| Lane Util. Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Frt | | 0.946 | | | 0.890 | | | 0.992 | | | 0.994 | |
| Flt Protected | | 0.971 | | | 0.991 | | | | | | 0.996 | |
| Satd. Flow (prot) | 0 | 1646 | 0 | 0 | 1639 | 0 | 0 | 1909 | 0 | 0 | 1906 | 0 |
| Flt Permitted | | 0.971 | | | 0.991 | | | | | | 0.996 | |
| Satd. Flow (perm) | 0 | 1646 | 0 | 0 | 1639 | 0 | 0 | 1909 | 0 | 0 | 1906 | 0 |
| Link Speed (mph) | | 30 | | | 30 | | | 30 | | | 30 | |
| Link Distance (ft) | | 322 | | | 241 | | | 1150 | | | 418 | |
| Travel Time (s) | | 7.3 | | | 5.5 | | | 26.1 | | | 9.5 | |
| Peak Hour Factor | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 |
| Heavy Vehicles (%) | 2% | 2% | 2% | 9% | 2% | 2% | 2% | 2% | 2% | 2% | 2% | 2% |
| Adj. Flow (vph) | 3 | 0 | 2 | 15 | 0 | 66 | 1 | 104 | 7 | 20 | 218 | 12 |
| Shared Lane Traffic (%) | | | | | | | | | | | | |
| Lane Group Flow (vph) | 0 | 5 | 0 | 0 | 81 | 0 | 0 | 112 | 0 | 0 | 250 | 0 |
| Enter Blocked Intersection | No | No | No | No | No | No | No | No | No | No | No | No |
| Lane Alignment | Left | Left | Right | Left | Left | Right | Left | Left | Right | Left | Left | Right |
| Median Width(ft) | | 0 | | | 0 | | | 0 | | | 0 | |
| Link Offset(ft) | | 0 | | | 0 | | | 0 | | | 0 | |
| Crosswalk Width(ft) | | 16 | | | 16 | | | 16 | | | 16 | |
| Two way Left Turn Lane | | | | | | | | | | | | |
| Headway Factor | 1.01 | 1.05 | 1.01 | 0.99 | 0.99 | 0.99 | 1.00 | 0.96 | 1.00 | 1.00 | 0.96 | 1.00 |
| Turning Speed (mph) | 15 | | 9 | 15 | | 9 | 15 | | 9 | 15 | | 9 |
| Sign Control | | Free | | | Free | | | Stop | | | Stop | |

Intersection Summary

Area Type: Other

Control Type: Unsignalized

2026 Build Traffic Volumes
2: Catherine Street & Depeyster Drive/Field Home

Peak PM Hour
06/07/2022

| Intersection | | | | | | | | | | | | |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Int Delay, s/veh | 9.2 | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 3 | 0 | 2 | 14 | 0 | 62 | 1 | 98 | 7 | 19 | 205 | 11 |
| Future Vol, veh/h | 3 | 0 | 2 | 14 | 0 | 62 | 1 | 98 | 7 | 19 | 205 | 11 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 1 | - | - | -2 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 |
| Heavy Vehicles, % | 2 | 2 | 2 | 9 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 3 | 0 | 2 | 15 | 0 | 66 | 1 | 104 | 7 | 20 | 218 | 12 |

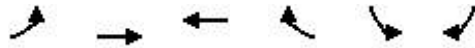
| Major/Minor | Major1 | | | Major2 | | | Minor1 | | | Minor2 | | |
|----------------------|--------|---|---|--------|---|---|--------|-------|-------|--------|-------|-------|
| Conflicting Flow All | 66 | 0 | 0 | 2 | 0 | 0 | 185 | 103 | 1 | 126 | 71 | 33 |
| Stage 1 | - | - | - | - | - | - | 7 | 7 | - | 63 | 63 | - |
| Stage 2 | - | - | - | - | - | - | 178 | 96 | - | 63 | 8 | - |
| Critical Hdwy | 4.12 | - | - | 4.19 | - | - | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.12 | 5.52 | - | 6.12 | 5.52 | - |
| Follow-up Hdwy | 2.218 | - | - | 2.281 | - | - | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 |
| Pot Cap-1 Maneuver | 1536 | - | - | 1576 | - | - | 776 | 787 | 1084 | 848 | 819 | 1041 |
| Stage 1 | - | - | - | - | - | - | 1015 | 890 | - | 948 | 842 | - |
| Stage 2 | - | - | - | - | - | - | 824 | 815 | - | 948 | 889 | - |
| Platoon blocked, % | - | - | - | - | - | - | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | 1536 | - | - | 1576 | - | - | 602 | 778 | 1084 | 749 | 809 | 1041 |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 602 | 778 | - | 749 | 809 | - |
| Stage 1 | - | - | - | - | - | - | 1013 | 888 | - | 946 | 834 | - |
| Stage 2 | - | - | - | - | - | - | 596 | 807 | - | 829 | 887 | - |

| Approach | EB | WB | NB | SB |
|----------------------|-----|-----|------|------|
| HCM Control Delay, s | 4.4 | 1.3 | 10.3 | 11.4 |
| HCM LOS | | | B | B |

| Minor Lane/Major Mvmt | NBLn1 | EBL | EBT | EBR | WBL | WBT | WBR | SBLn1 |
|-----------------------|-------|-------|-----|-----|-------|-----|-----|-------|
| Capacity (veh/h) | 791 | 1536 | - | - | 1576 | - | - | 812 |
| HCM Lane V/C Ratio | 0.143 | 0.002 | - | - | 0.009 | - | - | 0.308 |
| HCM Control Delay (s) | 10.3 | 7.3 | 0 | - | 7.3 | 0 | - | 11.4 |
| HCM Lane LOS | B | A | A | - | A | A | - | B |
| HCM 95th %tile Q(veh) | 0.5 | 0 | - | - | 0 | - | - | 1.3 |

2026 Build Traffic Volumes
3: Jacob Road & Catherine Street

Peak PM Hour
06/07/2022



| Lane Group | EBL | EBT | WBT | WBR | SBL | SBR |
|----------------------------|------|-------|-------|-------|-------|-------|
| Lane Configurations | | | | | | |
| Traffic Volume (vph) | 84 | 52 | 62 | 10 | 9 | 182 |
| Future Volume (vph) | 84 | 52 | 62 | 10 | 9 | 182 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Lane Width (ft) | 12 | 13 | 10 | 12 | 12 | 12 |
| Grade (%) | | 1% | -2% | | -2% | |
| Lane Util. Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Frt | | | 0.981 | | 0.871 | |
| Flt Protected | | 0.970 | | | 0.998 | |
| Satd. Flow (prot) | 0 | 1847 | 1723 | 0 | 1624 | 0 |
| Flt Permitted | | 0.970 | | | 0.998 | |
| Satd. Flow (perm) | 0 | 1847 | 1723 | 0 | 1624 | 0 |
| Link Speed (mph) | | 30 | 30 | | 30 | |
| Link Distance (ft) | | 755 | 963 | | 1150 | |
| Travel Time (s) | | 17.2 | 21.9 | | 26.1 | |
| Peak Hour Factor | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 |
| Heavy Vehicles (%) | 3% | 2% | 2% | 2% | 17% | 2% |
| Adj. Flow (vph) | 93 | 58 | 69 | 11 | 10 | 202 |
| Shared Lane Traffic (%) | | | | | | |
| Lane Group Flow (vph) | 0 | 151 | 80 | 0 | 212 | 0 |
| Enter Blocked Intersection | No | No | No | No | No | No |
| Lane Alignment | Left | Left | Left | Right | Left | Right |
| Median Width(ft) | | 0 | 0 | | 12 | |
| Link Offset(ft) | | 0 | 0 | | 0 | |
| Crosswalk Width(ft) | | 16 | 16 | | 16 | |
| Two way Left Turn Lane | | | | | | |
| Headway Factor | 1.01 | 0.96 | 1.08 | 0.99 | 0.99 | 0.99 |
| Turning Speed (mph) | 15 | | | 9 | 15 | 9 |
| Sign Control | | Free | Free | | Stop | |

Intersection Summary

Area Type: Other

Control Type: Unsignalized

Intersection

Int Delay, s/veh 6.3

| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
|--------------------------|------|------|------|------|------|------|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 84 | 52 | 62 | 10 | 9 | 182 |
| Future Vol, veh/h | 84 | 52 | 62 | 10 | 9 | 182 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, # | - | 0 | 0 | - | 0 | - |
| Grade, % | - | 1 | -2 | - | -2 | - |
| Peak Hour Factor | 90 | 90 | 90 | 90 | 90 | 90 |
| Heavy Vehicles, % | 3 | 2 | 2 | 2 | 17 | 2 |
| Mvmt Flow | 93 | 58 | 69 | 11 | 10 | 202 |

Major/Minor

| | Major1 | Major2 | Minor2 | | |
|----------------------|--------|--------|--------|---|-------------|
| Conflicting Flow All | 80 | 0 | - | 0 | 319 75 |
| Stage 1 | - | - | - | - | 75 - |
| Stage 2 | - | - | - | - | 244 - |
| Critical Hdwy | 4.13 | - | - | - | 6.17 6.02 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.17 - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.17 - |
| Follow-up Hdwy | 2.227 | - | - | - | 3.653 3.318 |
| Pot Cap-1 Maneuver | 1512 | - | - | - | 668 991 |
| Stage 1 | - | - | - | - | 919 - |
| Stage 2 | - | - | - | - | 784 - |
| Platoon blocked, % | - | - | - | - | - |
| Mov Cap-1 Maneuver | 1512 | - | - | - | 625 991 |
| Mov Cap-2 Maneuver | - | - | - | - | 625 - |
| Stage 1 | - | - | - | - | 860 - |
| Stage 2 | - | - | - | - | 784 - |

Approach

| | EB | WB | SB |
|----------------------|-----|----|-----|
| HCM Control Delay, s | 4.7 | 0 | 9.8 |
| HCM LOS | | | A |

Minor Lane/Major Mvmt

| | EBL | EBT | WBT | WBR | SBLn1 |
|-----------------------|-------|-----|-----|-----|-------|
| Capacity (veh/h) | 1512 | - | - | - | 964 |
| HCM Lane V/C Ratio | 0.062 | - | - | - | 0.22 |
| HCM Control Delay (s) | 7.5 | 0 | - | - | 9.8 |
| HCM Lane LOS | A | A | - | - | A |
| HCM 95th %tile Q(veh) | 0.2 | - | - | - | 0.8 |

2026 Build Traffic Volumes
 4: Site Access (South) & Catherine Street

Peak PM Hour
 06/07/2022



| Lane Group | WBL | WBR | NBT | NBR | SBL | SBT |
|-----------------------------|--------------|-------|-------|-------|------|-------|
| Lane Configurations | | | | | | |
| Traffic Volume (vph) | 4 | 9 | 157 | 7 | 15 | 232 |
| Future Volume (vph) | 4 | 9 | 157 | 7 | 15 | 232 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Grade (%) | 0% | | -2% | | | 5% |
| Lane Util. Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Frt | 0.904 | | 0.995 | | | |
| Flt Protected | 0.986 | | | | | 0.997 |
| Satd. Flow (prot) | 1660 | 0 | 1872 | 0 | 0 | 1811 |
| Flt Permitted | 0.986 | | | | | 0.997 |
| Satd. Flow (perm) | 1660 | 0 | 1872 | 0 | 0 | 1811 |
| Link Speed (mph) | 30 | | 30 | | | 30 |
| Link Distance (ft) | 264 | | 418 | | | 986 |
| Travel Time (s) | 6.0 | | 9.5 | | | 22.4 |
| Peak Hour Factor | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 |
| Adj. Flow (vph) | 4 | 10 | 167 | 7 | 16 | 247 |
| Shared Lane Traffic (%) | | | | | | |
| Lane Group Flow (vph) | 14 | 0 | 174 | 0 | 0 | 263 |
| Enter Blocked Intersection | No | No | No | No | No | No |
| Lane Alignment | Left | Right | Left | Right | Left | Left |
| Median Width(ft) | 12 | | 0 | | | 0 |
| Link Offset(ft) | 0 | | 0 | | | 0 |
| Crosswalk Width(ft) | 16 | | 16 | | | 16 |
| Two way Left Turn Lane | | | | | | |
| Headway Factor | 1.00 | 1.00 | 0.99 | 0.99 | 1.03 | 1.03 |
| Turning Speed (mph) | 15 | 9 | | 9 | 15 | |
| Sign Control | Stop | | Free | | | Free |
| Intersection Summary | | | | | | |
| Area Type: | Other | | | | | |
| Control Type: | Unsignalized | | | | | |

2026 Build Traffic Volumes
4: Site Access (South) & Catherine Street

Peak PM Hour
06/07/2022

| Intersection | | | | | | |
|--------------------------|--------|----------|--------|-------|-------|------|
| Int Delay, s/veh | 0.6 | | | | | |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | W | R | T | R | L | T |
| Traffic Vol, veh/h | 4 | 9 | 157 | 7 | 15 | 232 |
| Future Vol, veh/h | 4 | 9 | 157 | 7 | 15 | 232 |
| 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 | - | -2 | - | - | 5 |
| Peak Hour Factor | 94 | 94 | 94 | 94 | 94 | 94 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 4 | 10 | 167 | 7 | 16 | 247 |
| Major/Minor | Minor1 | Major1 | Major2 | | | |
| Conflicting Flow All | 450 | 171 | 0 | 0 | 174 | 0 |
| Stage 1 | 171 | - | - | - | - | - |
| Stage 2 | 279 | - | - | - | - | - |
| 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 | 567 | 873 | - | - | 1403 | - |
| Stage 1 | 859 | - | - | - | - | - |
| Stage 2 | 768 | - | - | - | - | - |
| Platoon blocked, % | | | - | - | - | - |
| Mov Cap-1 Maneuver | 560 | 873 | - | - | 1403 | - |
| Mov Cap-2 Maneuver | 560 | - | - | - | - | - |
| Stage 1 | 859 | - | - | - | - | - |
| Stage 2 | 758 | - | - | - | - | - |
| Approach | WB | NB | | SB | | |
| HCM Control Delay, s | 9.9 | 0 | | 0.5 | | |
| HCM LOS | A | | | | | |
| Minor Lane/Major Mvmt | NBT | NBRWBLn1 | SBL | SBT | | |
| Capacity (veh/h) | - | - | 745 | 1403 | - | |
| HCM Lane V/C Ratio | - | - | 0.019 | 0.011 | - | |
| HCM Control Delay (s) | - | - | 9.9 | 7.6 | 0 | |
| HCM Lane LOS | - | - | A | A | A | |
| HCM 95th %tile Q(veh) | - | - | 0.1 | 0 | - | |

2026 Build Traffic Volumes
5: Catherine Street & Site Access (North)

Peak PM Hour
06/07/2022



| Lane Group | WBL | WBR | NBT | NBR | SBL | SBT |
|-----------------------------|--------------|-------|-------|-------|------|-------|
| Lane Configurations | | | | | | |
| Traffic Volume (vph) | 3 | 11 | 162 | 4 | 18 | 244 |
| Future Volume (vph) | 3 | 11 | 162 | 4 | 18 | 244 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Grade (%) | 0% | | -10% | | | 10% |
| Lane Util. Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Frt | 0.892 | | 0.997 | | | |
| Flt Protected | 0.990 | | | | | 0.997 |
| Satd. Flow (prot) | 1645 | 0 | 1950 | 0 | 0 | 1764 |
| Flt Permitted | 0.990 | | | | | 0.997 |
| Satd. Flow (perm) | 1645 | 0 | 1950 | 0 | 0 | 1764 |
| Link Speed (mph) | 30 | | 30 | | | 30 |
| Link Distance (ft) | 229 | | 986 | | | 587 |
| Travel Time (s) | 5.2 | | 22.4 | | | 13.3 |
| Peak Hour Factor | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 |
| Adj. Flow (vph) | 3 | 12 | 172 | 4 | 19 | 260 |
| Shared Lane Traffic (%) | | | | | | |
| Lane Group Flow (vph) | 15 | 0 | 176 | 0 | 0 | 279 |
| Enter Blocked Intersection | No | No | No | No | No | No |
| Lane Alignment | Left | Right | Left | Right | Left | Left |
| Median Width(ft) | 12 | | 0 | | | 0 |
| Link Offset(ft) | 0 | | 0 | | | 0 |
| Crosswalk Width(ft) | 16 | | 16 | | | 16 |
| Two way Left Turn Lane | | | | | | |
| Headway Factor | 1.00 | 1.00 | 0.94 | 0.94 | 1.07 | 1.07 |
| Turning Speed (mph) | 15 | 9 | | 9 | 15 | |
| Sign Control | Stop | | Free | | | Free |
| Intersection Summary | | | | | | |
| Area Type: | Other | | | | | |
| Control Type: | Unsignalized | | | | | |

2026 Build Traffic Volumes
5: Catherine Street & Site Access (North)

Peak PM Hour
06/07/2022

Intersection

Int Delay, s/veh 0.6

| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
|--------------------------|------|------|------|------|------|------|
| Lane Configurations | Y | | B | | | 4 |
| Traffic Vol, veh/h | 3 | 11 | 162 | 4 | 18 | 244 |
| Future Vol, veh/h | 3 | 11 | 162 | 4 | 18 | 244 |
| 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 | - | -10 | - | - | 10 |
| Peak Hour Factor | 94 | 94 | 94 | 94 | 94 | 94 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 3 | 12 | 172 | 4 | 19 | 260 |

Major/Minor

| | Minor1 | Major1 | Major2 | | |
|----------------------|--------|--------|--------|---|-------|
| Conflicting Flow All | 472 | 174 | 0 | 0 | 176 |
| Stage 1 | 174 | - | - | - | - |
| Stage 2 | 298 | - | - | - | - |
| 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 | 551 | 869 | - | - | 1400 |
| Stage 1 | 856 | - | - | - | - |
| Stage 2 | 753 | - | - | - | - |
| Platoon blocked, % | | | - | - | - |
| Mov Cap-1 Maneuver | 542 | 869 | - | - | 1400 |
| Mov Cap-2 Maneuver | 542 | - | - | - | - |
| Stage 1 | 856 | - | - | - | - |
| Stage 2 | 741 | - | - | - | - |

Approach

| | WB | NB | SB |
|----------------------|-----|----|-----|
| HCM Control Delay, s | 9.8 | 0 | 0.5 |
| HCM LOS | A | | |

Minor Lane/Major Mvmt

| | NBT | NBRWBLn1 | SBL | SBT |
|-----------------------|-----|----------|-------|-------|
| Capacity (veh/h) | - | - | 770 | 1400 |
| HCM Lane V/C Ratio | - | - | 0.019 | 0.014 |
| HCM Control Delay (s) | - | - | 9.8 | 7.6 |
| HCM Lane LOS | - | - | A | A |
| HCM 95th %tile Q(veh) | - | - | 0.1 | 0 |

2026 Build Traffic Volumes
6: Old Crompond Road & Garden Lane

Peak PM Hour
06/07/2022



| Lane Group | EBL | EBT | WBT | WBR | SBL | SBR |
|-----------------------------|--------------|-------|-------|-------|-------|-------|
| Lane Configurations | | | | | | |
| Traffic Volume (vph) | 3 | 93 | 173 | 43 | 31 | 11 |
| Future Volume (vph) | 3 | 93 | 173 | 43 | 31 | 11 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Grade (%) | | -1% | 4% | | 3% | |
| Lane Util. Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Frt | | | 0.973 | | 0.966 | |
| Flt Protected | | 0.998 | | | 0.964 | |
| Satd. Flow (prot) | 0 | 1868 | 1776 | 0 | 1709 | 0 |
| Flt Permitted | | 0.998 | | | 0.964 | |
| Satd. Flow (perm) | 0 | 1868 | 1776 | 0 | 1709 | 0 |
| Link Speed (mph) | | 30 | 30 | | 30 | |
| Link Distance (ft) | | 631 | 170 | | 331 | |
| Travel Time (s) | | 14.3 | 3.9 | | 7.5 | |
| Peak Hour Factor | 0.82 | 0.82 | 0.82 | 0.82 | 0.82 | 0.82 |
| Adj. Flow (vph) | 4 | 113 | 211 | 52 | 38 | 13 |
| Shared Lane Traffic (%) | | | | | | |
| Lane Group Flow (vph) | 0 | 117 | 263 | 0 | 51 | 0 |
| Enter Blocked Intersection | No | No | No | No | No | No |
| Lane Alignment | Left | Left | Left | Right | Left | Right |
| Median Width(ft) | | 0 | 0 | | 12 | |
| Link Offset(ft) | | 0 | 0 | | 0 | |
| Crosswalk Width(ft) | | 16 | 16 | | 16 | |
| Two way Left Turn Lane | | | | | | |
| Headway Factor | 0.99 | 0.99 | 1.03 | 1.03 | 1.02 | 1.02 |
| Turning Speed (mph) | 15 | | | 9 | 15 | 9 |
| Sign Control | | Free | Free | | Stop | |
| Intersection Summary | | | | | | |
| Area Type: | Other | | | | | |
| Control Type: | Unsignalized | | | | | |

Intersection

Int Delay, s/veh 1.4

| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
|--------------------------|------|------|------|------|------|------|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 3 | 93 | 173 | 43 | 31 | 11 |
| Future Vol, veh/h | 3 | 93 | 173 | 43 | 31 | 11 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, # | - | 0 | 0 | - | 0 | - |
| Grade, % | - | -1 | 4 | - | 3 | - |
| Peak Hour Factor | 82 | 82 | 82 | 82 | 82 | 82 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 4 | 113 | 211 | 52 | 38 | 13 |

Major/Minor

| | Major1 | Major2 | Minor2 | | |
|----------------------|--------|--------|--------|-------|-------|
| Conflicting Flow All | 263 | 0 | 0 | 358 | 237 |
| Stage 1 | - | - | - | 237 | - |
| Stage 2 | - | - | - | 121 | - |
| Critical Hdwy | 4.12 | - | - | 7.02 | 6.52 |
| Critical Hdwy Stg 1 | - | - | - | 6.02 | - |
| Critical Hdwy Stg 2 | - | - | - | 6.02 | - |
| Follow-up Hdwy | 2.218 | - | - | 3.518 | 3.318 |
| Pot Cap-1 Maneuver | 1301 | - | - | 603 | 786 |
| Stage 1 | - | - | - | 771 | - |
| Stage 2 | - | - | - | 886 | - |
| Platoon blocked, % | - | - | - | - | - |
| Mov Cap-1 Maneuver | 1301 | - | - | 601 | 786 |
| Mov Cap-2 Maneuver | - | - | - | 601 | - |
| Stage 1 | - | - | - | 769 | - |
| Stage 2 | - | - | - | 886 | - |

Approach

| | EB | WB | SB |
|----------------------|-----|----|------|
| HCM Control Delay, s | 0.2 | 0 | 11.1 |
| HCM LOS | | | B |

Minor Lane/Major Mvmt

| | EBL | EBT | WBT | WBR | SBLn1 |
|-----------------------|-------|-----|-----|-----|-------|
| Capacity (veh/h) | 1301 | - | - | - | 640 |
| HCM Lane V/C Ratio | 0.003 | - | - | - | 0.08 |
| HCM Control Delay (s) | 7.8 | 0 | - | - | 11.1 |
| HCM Lane LOS | A | A | - | - | B |
| HCM 95th %tile Q(veh) | 0 | - | - | - | 0.3 |

2026 Build Traffic Volumes
7: Garden Lane & Crompond Road

Peak PM Hour
06/07/2022



| Lane Group | EBT | EBR | WBL | WBT | NBL | NBR |
|----------------------------|-------|-------|------|-------|-------|-------|
| Lane Configurations | | | | | | |
| Traffic Volume (vph) | 1063 | 20 | 26 | 1178 | 11 | 24 |
| Future Volume (vph) | 1063 | 20 | 26 | 1178 | 11 | 24 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Lane Width (ft) | 15 | 12 | 12 | 15 | 13 | 12 |
| Grade (%) | 0% | | | 1% | -2% | |
| Lane Util. Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Frt | 0.998 | | | | 0.909 | |
| Flt Protected | | | | 0.999 | 0.984 | |
| Satd. Flow (prot) | 2024 | 0 | 0 | 2014 | 1572 | 0 |
| Flt Permitted | | | | 0.999 | 0.984 | |
| Satd. Flow (perm) | 2024 | 0 | 0 | 2014 | 1572 | 0 |
| Link Speed (mph) | 45 | | | 45 | 30 | |
| Link Distance (ft) | 745 | | | 1084 | 732 | |
| Travel Time (s) | 11.3 | | | 16.4 | 16.6 | |
| Peak Hour Factor | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Heavy Vehicles (%) | 3% | 7% | 9% | 3% | 2% | 18% |
| Adj. Flow (vph) | 1119 | 21 | 27 | 1240 | 12 | 25 |
| Shared Lane Traffic (%) | | | | | | |
| Lane Group Flow (vph) | 1140 | 0 | 0 | 1267 | 37 | 0 |
| Enter Blocked Intersection | No | No | No | No | No | No |
| Lane Alignment | Left | Right | Left | Left | Left | Right |
| Median Width(ft) | 0 | | | 0 | 13 | |
| Link Offset(ft) | 0 | | | 0 | 0 | |
| Crosswalk Width(ft) | 16 | | | 16 | 16 | |
| Two way Left Turn Lane | | | | | | |
| Headway Factor | 0.88 | 1.00 | 1.01 | 0.89 | 0.95 | 0.99 |
| Turning Speed (mph) | | 9 | 15 | | 15 | 9 |
| Sign Control | Free | | | Free | Stop | |

Intersection Summary

Area Type: Other

Control Type: Unsignalized

2026 Build Traffic Volumes
7: Garden Lane & Crompond Road

Peak PM Hour
06/07/2022

Intersection

Int Delay, s/veh 1.1

| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
|--------------------------|------|------|------|------|------|------|
| Lane Configurations | ↑ | | | ↑ | ↑ | |
| Traffic Vol, veh/h | 1063 | 20 | 26 | 1178 | 11 | 24 |
| Future Vol, veh/h | 1063 | 20 | 26 | 1178 | 11 | 24 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 1 | -2 | - |
| Peak Hour Factor | 95 | 95 | 95 | 95 | 95 | 95 |
| Heavy Vehicles, % | 3 | 7 | 9 | 3 | 2 | 18 |
| Mvmt Flow | 1119 | 21 | 27 | 1240 | 12 | 25 |

| Major/Minor | Major1 | Major2 | Minor1 | Minor2 | Minor3 |
|----------------------|--------|--------|--------|--------|--------|
| Conflicting Flow All | 0 | 0 | 1140 | 0 | 2424 |
| Stage 1 | - | - | - | - | 1130 |
| Stage 2 | - | - | - | - | 1294 |
| Critical Hdwy | - | - | 4.19 | - | 6.02 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.02 |
| Critical Hdwy Stg 2 | - | - | - | - | 5.02 |
| Follow-up Hdwy | - | - | 2.281 | - | 3.518 |
| Pot Cap-1 Maneuver | - | - | 588 | - | 46 |
| Stage 1 | - | - | - | - | 350 |
| Stage 2 | - | - | - | - | 297 |
| Platoon blocked, % | - | - | - | - | - |
| Mov Cap-1 Maneuver | - | - | 588 | - | 39 |
| Mov Cap-2 Maneuver | - | - | - | - | 39 |
| Stage 1 | - | - | - | - | 350 |
| Stage 2 | - | - | - | - | 253 |

| Approach | EB | WB | NB |
|----------------------|----|-----|------|
| HCM Control Delay, s | 0 | 0.2 | 68.1 |
| HCM LOS | | | F |

| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBL | WBT |
|-----------------------|-------|-----|-----|-------|-----|
| Capacity (veh/h) | 92 | - | - | 588 | - |
| HCM Lane V/C Ratio | 0.4 | - | - | 0.047 | - |
| HCM Control Delay (s) | 68.1 | - | - | 11.4 | 0 |
| HCM Lane LOS | F | - | - | B | A |
| HCM 95th %tile Q(veh) | 1.6 | - | - | 0.1 | - |

2026 No-Build Traffic Volumes (W/ Improvements)
7: Garden Lane & Crompond Road

Peak AM Hour
06/08/2022



| Lane Group | EBT | EBR | WBL | WBT | NBL | NBR |
|----------------------------|-------|-------|-------|-------|-------|-------|
| Lane Configurations | | | | | | |
| Traffic Volume (vph) | 1224 | 16 | 36 | 794 | 1 | 24 |
| Future Volume (vph) | 1224 | 16 | 36 | 794 | 1 | 24 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Lane Width (ft) | 15 | 12 | 12 | 15 | 13 | 12 |
| Grade (%) | 0% | | | 1% | -2% | |
| Lane Util. Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Fr _t | 0.998 | | | | 0.870 | |
| Fl _t Protected | | | | 0.998 | 0.998 | |
| Satd. Flow (prot) | 2022 | 0 | 0 | 1978 | 1657 | 0 |
| Fl _t Permitted | | | | 0.710 | 0.998 | |
| Satd. Flow (perm) | 2022 | 0 | 0 | 1407 | 1657 | 0 |
| Right Turn on Red | | Yes | | | | Yes |
| Satd. Flow (RTOR) | 2 | | | | 25 | |
| Link Speed (mph) | 45 | | | 45 | 30 | |
| Link Distance (ft) | 745 | | | 1084 | 732 | |
| Travel Time (s) | 11.3 | | | 16.4 | 16.6 | |
| Peak Hour Factor | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Heavy Vehicles (%) | 3% | 15% | 3% | 5% | 2% | 4% |
| Adj. Flow (vph) | 1288 | 17 | 38 | 836 | 1 | 25 |
| Shared Lane Traffic (%) | | | | | | |
| Lane Group Flow (vph) | 1305 | 0 | 0 | 874 | 26 | 0 |
| Enter Blocked Intersection | No | No | No | No | No | No |
| Lane Alignment | Left | Right | Left | Left | Left | Right |
| Median Width(ft) | 0 | | | 0 | 13 | |
| Link Offset(ft) | 0 | | | 0 | 0 | |
| Crosswalk Width(ft) | 16 | | | 16 | 16 | |
| Two way Left Turn Lane | | | | | | |
| Headway Factor | 0.88 | 1.00 | 1.01 | 0.89 | 0.95 | 0.99 |
| Turning Speed (mph) | | 9 | 15 | | 15 | 9 |
| Number of Detectors | 2 | | 1 | 2 | 2 | |
| Detector Template | | | Left | | | |
| Leading Detector (ft) | 83 | | 20 | 83 | 83 | |
| Trailing Detector (ft) | -5 | | 0 | -5 | -5 | |
| Detector 1 Position(ft) | -5 | | 0 | -5 | -5 | |
| Detector 1 Size(ft) | 40 | | 20 | 40 | 40 | |
| Detector 1 Type | CI+Ex | | CI+Ex | CI+Ex | CI+Ex | |
| Detector 1 Channel | | | | | | |
| Detector 1 Extend (s) | 0.0 | | 0.0 | 0.0 | 0.0 | |
| Detector 1 Queue (s) | 0.0 | | 0.0 | 0.0 | 0.0 | |
| Detector 1 Delay (s) | 0.0 | | 0.0 | 0.0 | 0.0 | |
| Detector 2 Position(ft) | 43 | | | 43 | 43 | |
| Detector 2 Size(ft) | 40 | | | 40 | 40 | |
| Detector 2 Type | CI+Ex | | | CI+Ex | CI+Ex | |
| Detector 2 Channel | | | | | | |
| Detector 2 Extend (s) | 0.0 | | | 0.0 | 0.0 | |
| Turn Type | NA | | Perm | NA | Prot | |
| Protected Phases | 4 | | | 8 | 2 | |
| Permitted Phases | | | 8 | | | |
| Detector Phase | 4 | | 8 | 8 | 2 | |
| Switch Phase | | | | | | |
| Minimum Initial (s) | 5.0 | | 5.0 | 5.0 | 5.0 | |
| Minimum Split (s) | 23.0 | | 23.0 | 23.0 | 23.0 | |

2026 No-Build Traffic Volumes (W/ Improvements)
 7: Garden Lane & Crompond Road

Peak AM Hour
 06/08/2022

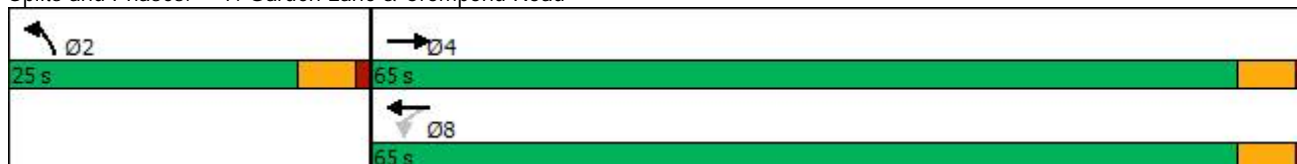


| Lane Group | EBT | EBR | WBL | WBT | NBL | NBR |
|-------------------------|-------|-----|-------|-------|-------|-----|
| Total Split (s) | 65.0 | | 65.0 | 65.0 | 25.0 | |
| Total Split (%) | 72.2% | | 72.2% | 72.2% | 27.8% | |
| Maximum Green (s) | 60.0 | | 60.0 | 60.0 | 20.0 | |
| Yellow Time (s) | 4.0 | | 4.0 | 4.0 | 4.0 | |
| All-Red Time (s) | 1.0 | | 1.0 | 1.0 | 1.0 | |
| Lost Time Adjust (s) | 0.0 | | | 0.0 | 0.0 | |
| Total Lost Time (s) | 5.0 | | | 5.0 | 5.0 | |
| Lead/Lag | | | | | | |
| Lead-Lag Optimize? | | | | | | |
| Vehicle Extension (s) | 3.0 | | 3.0 | 3.0 | 3.0 | |
| Recall Mode | None | | None | None | Min | |
| v/c Ratio | 0.82 | | | 0.79 | 0.17 | |
| Control Delay | 10.8 | | | 11.7 | 16.7 | |
| Queue Delay | 0.0 | | | 0.0 | 0.0 | |
| Total Delay | 10.8 | | | 11.7 | 16.7 | |
| Queue Length 50th (ft) | 246 | | | 155 | 0 | |
| Queue Length 95th (ft) | 515 | | | 381 | 23 | |
| Internal Link Dist (ft) | 665 | | | 1004 | 652 | |
| Turn Bay Length (ft) | | | | | | |
| Base Capacity (vph) | 1594 | | | 1108 | 453 | |
| Starvation Cap Reductn | 0 | | | 0 | 0 | |
| Spillback Cap Reductn | 0 | | | 0 | 0 | |
| Storage Cap Reductn | 0 | | | 0 | 0 | |
| Reduced v/c Ratio | 0.82 | | | 0.79 | 0.06 | |

Intersection Summary

Area Type: Other
 Cycle Length: 90
 Actuated Cycle Length: 76.1
 Natural Cycle: 120
 Control Type: Actuated-Uncoordinated

Splits and Phases: 7: Garden Lane & Crompond Road



2026 No-Build Traffic Volumes (W/ Improvements)
7: Garden Lane & Crompond Road

Peak AM Hour
06/08/2022



| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
|------------------------------|------|------|------|------|------|------|
| Lane Configurations | ↩ | | | ↩ | ↩ | ↩ |
| Traffic Volume (veh/h) | 1224 | 16 | 36 | 794 | 1 | 24 |
| Future Volume (veh/h) | 1224 | 16 | 36 | 794 | 1 | 24 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | | 1.00 | 1.00 | | 1.00 | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | No | |
| Adj Sat Flow, veh/h/ln | 1930 | 1678 | 1850 | 1893 | 2027 | 1919 |
| Adj Flow Rate, veh/h | 1288 | 17 | 38 | 836 | 1 | 25 |
| Peak Hour Factor | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Percent Heavy Veh, % | 3 | 15 | 3 | 5 | 2 | 4 |
| Cap, veh/h | 1453 | 19 | 78 | 1107 | 5 | 126 |
| Arrive On Green | 0.76 | 0.76 | 0.76 | 0.76 | 0.08 | 0.08 |
| Sat Flow, veh/h | 1900 | 25 | 25 | 1447 | 64 | 1606 |
| Grp Volume(v), veh/h | 0 | 1305 | 874 | 0 | 27 | 0 |
| Grp Sat Flow(s),veh/h/ln | 0 | 1925 | 1472 | 0 | 1734 | 0 |
| Q Serve(g_s), s | 0.0 | 31.6 | 9.7 | 0.0 | 0.9 | 0.0 |
| Cycle Q Clear(g_c), s | 0.0 | 31.6 | 41.3 | 0.0 | 0.9 | 0.0 |
| Prop In Lane | | 0.01 | 0.04 | | 0.04 | 0.93 |
| Lane Grp Cap(c), veh/h | 0 | 1473 | 1185 | 0 | 136 | 0 |
| V/C Ratio(X) | 0.00 | 0.89 | 0.74 | 0.00 | 0.20 | 0.00 |
| Avail Cap(c_a), veh/h | 0 | 1810 | 1474 | 0 | 544 | 0 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh | 0.0 | 5.5 | 4.5 | 0.0 | 27.5 | 0.0 |
| Incr Delay (d2), s/veh | 0.0 | 4.9 | 1.5 | 0.0 | 0.7 | 0.0 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.0 | 4.4 | 1.4 | 0.0 | 0.4 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | |
| LnGrp Delay(d),s/veh | 0.0 | 10.4 | 6.0 | 0.0 | 28.2 | 0.0 |
| LnGrp LOS | A | B | A | A | C | A |
| Approach Vol, veh/h | 1305 | | | 874 | 27 | |
| Approach Delay, s/veh | 10.4 | | | 6.0 | 28.2 | |
| Approach LOS | B | | | A | C | |
| Timer - Assigned Phs | | 2 | | 4 | | 8 |
| Phs Duration (G+Y+Rc), s | | 10.0 | | 53.8 | | 53.8 |
| Change Period (Y+Rc), s | | 5.0 | | 5.0 | | 5.0 |
| Max Green Setting (Gmax), s | | 20.0 | | 60.0 | | 60.0 |
| Max Q Clear Time (g_c+I1), s | | 2.9 | | 33.6 | | 43.3 |
| Green Ext Time (p_c), s | | 0.1 | | 12.6 | | 5.5 |

Intersection Summary

| | |
|--------------------|-----|
| HCM 6th Ctrl Delay | 8.9 |
| HCM 6th LOS | A |

Notes

User approved volume balancing among the lanes for turning movement.

2026 No-Build Traffic Volumes (W/ Improvements)
7: Garden Lane & Crompond Road

Peak PM Hour
06/07/2022



| Lane Group | EBT | EBR | WBL | WBT | NBL | NBR |
|----------------------------|-------|-------|-------|-------|-------|-------|
| Lane Configurations | | | | | | |
| Traffic Volume (vph) | 1063 | 16 | 24 | 1178 | 8 | 23 |
| Future Volume (vph) | 1063 | 16 | 24 | 1178 | 8 | 23 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Lane Width (ft) | 15 | 12 | 12 | 15 | 13 | 12 |
| Grade (%) | 0% | | | 1% | -2% | |
| Lane Util. Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Frt | 0.998 | | | | 0.899 | |
| Flt Protected | | | | 0.999 | 0.988 | |
| Satd. Flow (prot) | 2024 | 0 | 0 | 2015 | 1545 | 0 |
| Flt Permitted | | | | 0.969 | 0.988 | |
| Satd. Flow (perm) | 2024 | 0 | 0 | 1954 | 1545 | 0 |
| Right Turn on Red | | Yes | | | | Yes |
| Satd. Flow (RTOR) | 2 | | | | 24 | |
| Link Speed (mph) | 45 | | | 45 | 30 | |
| Link Distance (ft) | 745 | | | 1084 | 732 | |
| Travel Time (s) | 11.3 | | | 16.4 | 16.6 | |
| Peak Hour Factor | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Heavy Vehicles (%) | 3% | 7% | 9% | 3% | 2% | 18% |
| Adj. Flow (vph) | 1119 | 17 | 25 | 1240 | 8 | 24 |
| Shared Lane Traffic (%) | | | | | | |
| Lane Group Flow (vph) | 1136 | 0 | 0 | 1265 | 32 | 0 |
| Enter Blocked Intersection | No | No | No | No | No | No |
| Lane Alignment | Left | Right | Left | Left | Left | Right |
| Median Width(ft) | 0 | | | 0 | 13 | |
| Link Offset(ft) | 0 | | | 0 | 0 | |
| Crosswalk Width(ft) | 16 | | | 16 | 16 | |
| Two way Left Turn Lane | | | | | | |
| Headway Factor | 0.88 | 1.00 | 1.01 | 0.89 | 0.95 | 0.99 |
| Turning Speed (mph) | | 9 | 15 | | 15 | 9 |
| Number of Detectors | 2 | | 1 | 2 | 2 | |
| Detector Template | | | Left | | | |
| Leading Detector (ft) | 83 | | 20 | 83 | 83 | |
| Trailing Detector (ft) | -5 | | 0 | -5 | -5 | |
| Detector 1 Position(ft) | -5 | | 0 | -5 | -5 | |
| Detector 1 Size(ft) | 40 | | 20 | 40 | 40 | |
| Detector 1 Type | CI+Ex | | CI+Ex | CI+Ex | CI+Ex | |
| Detector 1 Channel | | | | | | |
| Detector 1 Extend (s) | 0.0 | | 0.0 | 0.0 | 0.0 | |
| Detector 1 Queue (s) | 0.0 | | 0.0 | 0.0 | 0.0 | |
| Detector 1 Delay (s) | 0.0 | | 0.0 | 0.0 | 0.0 | |
| Detector 2 Position(ft) | 43 | | | 43 | 43 | |
| Detector 2 Size(ft) | 40 | | | 40 | 40 | |
| Detector 2 Type | CI+Ex | | | CI+Ex | CI+Ex | |
| Detector 2 Channel | | | | | | |
| Detector 2 Extend (s) | 0.0 | | | 0.0 | 0.0 | |
| Turn Type | NA | | Perm | NA | Prot | |
| Protected Phases | 4 | | | 8 | 2 | |
| Permitted Phases | | | 8 | | | |
| Detector Phase | 4 | | 8 | 8 | 2 | |
| Switch Phase | | | | | | |
| Minimum Initial (s) | 5.0 | | 5.0 | 5.0 | 5.0 | |
| Minimum Split (s) | 22.5 | | 22.5 | 22.5 | 22.5 | |

2026 No-Build Traffic Volumes (W/ Improvements)
 7: Garden Lane & Crompond Road

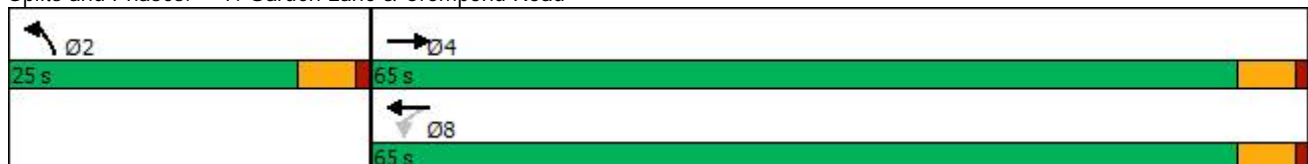
Peak PM Hour
 06/07/2022



| Lane Group | EBT | EBR | WBL | WBT | NBL | NBR |
|-------------------------|-------|-----|-------|-------|-------|-----|
| Total Split (s) | 65.0 | | 65.0 | 65.0 | 25.0 | |
| Total Split (%) | 72.2% | | 72.2% | 72.2% | 27.8% | |
| Maximum Green (s) | 60.0 | | 60.0 | 60.0 | 20.0 | |
| Yellow Time (s) | 4.0 | | 4.0 | 4.0 | 4.0 | |
| All-Red Time (s) | 1.0 | | 1.0 | 1.0 | 1.0 | |
| Lost Time Adjust (s) | 0.0 | | | 0.0 | 0.0 | |
| Total Lost Time (s) | 5.0 | | | 5.0 | 5.0 | |
| Lead/Lag | | | | | | |
| Lead-Lag Optimize? | | | | | | |
| Vehicle Extension (s) | 3.0 | | 3.0 | 3.0 | 3.0 | |
| Recall Mode | None | | None | None | Min | |
| v/c Ratio | 0.71 | | | 0.83 | 0.21 | |
| Control Delay | 7.4 | | | 11.6 | 20.2 | |
| Queue Delay | 0.0 | | | 0.0 | 0.0 | |
| Total Delay | 7.4 | | | 11.6 | 20.2 | |
| Queue Length 50th (ft) | 178 | | | 248 | 4 | |
| Queue Length 95th (ft) | 352 | | | 544 | 29 | |
| Internal Link Dist (ft) | 665 | | | 1004 | 652 | |
| Turn Bay Length (ft) | | | | | | |
| Base Capacity (vph) | 1589 | | | 1533 | 422 | |
| Starvation Cap Reductn | 0 | | | 0 | 0 | |
| Spillback Cap Reductn | 0 | | | 0 | 0 | |
| Storage Cap Reductn | 0 | | | 0 | 0 | |
| Reduced v/c Ratio | 0.71 | | | 0.83 | 0.08 | |

Intersection Summary
 Area Type: Other
 Cycle Length: 90
 Actuated Cycle Length: 76.4
 Natural Cycle: 100
 Control Type: Actuated-Uncoordinated

Splits and Phases: 7: Garden Lane & Crompond Road



2026 No-Build Traffic Volumes (W/ Improvements)
7: Garden Lane & Crompond Road

Peak PM Hour
06/07/2022



| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
|------------------------------|------|------|------|------|------|------|
| Lane Configurations | ↩ | | | ↩ | ↩ | ↩ |
| Traffic Volume (veh/h) | 1063 | 16 | 24 | 1178 | 8 | 23 |
| Future Volume (veh/h) | 1063 | 16 | 24 | 1178 | 8 | 23 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | | 1.00 | 1.00 | | 1.00 | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | No | |
| Adj Sat Flow, veh/h/ln | 1930 | 1796 | 1761 | 1924 | 2027 | 1708 |
| Adj Flow Rate, veh/h | 1119 | 17 | 25 | 1240 | 8 | 24 |
| Peak Hour Factor | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Percent Heavy Veh, % | 3 | 7 | 9 | 3 | 2 | 18 |
| Cap, veh/h | 1415 | 21 | 74 | 1392 | 36 | 109 |
| Arrive On Green | 0.75 | 0.75 | 0.75 | 0.75 | 0.08 | 0.08 |
| Sat Flow, veh/h | 1896 | 29 | 16 | 1865 | 430 | 1289 |
| Grp Volume(v), veh/h | 0 | 1136 | 1265 | 0 | 33 | 0 |
| Grp Sat Flow(s),veh/h/ln | 0 | 1925 | 1880 | 0 | 1773 | 0 |
| Q Serve(g_s), s | 0.0 | 21.6 | 4.5 | 0.0 | 1.0 | 0.0 |
| Cycle Q Clear(g_c), s | 0.0 | 21.6 | 29.5 | 0.0 | 1.0 | 0.0 |
| Prop In Lane | | 0.01 | 0.02 | | 0.24 | 0.73 |
| Lane Grp Cap(c), veh/h | 0 | 1437 | 1466 | 0 | 150 | 0 |
| V/C Ratio(X) | 0.00 | 0.79 | 0.86 | 0.00 | 0.22 | 0.00 |
| Avail Cap(c_a), veh/h | 0 | 1952 | 1954 | 0 | 599 | 0 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh | 0.0 | 4.6 | 5.6 | 0.0 | 25.3 | 0.0 |
| Incr Delay (d2), s/veh | 0.0 | 1.6 | 3.3 | 0.0 | 0.7 | 0.0 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.0 | 2.3 | 3.6 | 0.0 | 0.4 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | |
| LnGrp Delay(d),s/veh | 0.0 | 6.2 | 8.9 | 0.0 | 26.0 | 0.0 |
| LnGrp LOS | A | A | A | A | C | A |
| Approach Vol, veh/h | 1136 | | | 1265 | 33 | |
| Approach Delay, s/veh | 6.2 | | | 8.9 | 26.0 | |
| Approach LOS | A | | | A | C | |
| Timer - Assigned Phs | | 2 | | 4 | | 8 |
| Phs Duration (G+Y+Rc), s | | 10.0 | | 49.2 | | 49.2 |
| Change Period (Y+Rc), s | | 5.0 | | 5.0 | | 5.0 |
| Max Green Setting (Gmax), s | | 20.0 | | 60.0 | | 60.0 |
| Max Q Clear Time (g_c+I1), s | | 3.0 | | 23.6 | | 31.5 |
| Green Ext Time (p_c), s | | 0.1 | | 10.4 | | 12.7 |

Intersection Summary

| | |
|--------------------|-----|
| HCM 6th Ctrl Delay | 7.9 |
| HCM 6th LOS | A |

Notes

User approved volume balancing among the lanes for turning movement.

2026 Build Traffic Volumes (W/ Improvements)
7: Garden Lane & Crompond Road

Peak AM Hour
06/08/2022



| Lane Group | EBT | EBR | WBL | WBT | NBL | NBR |
|----------------------------|-------|-------|-------|-------|-------|-------|
| Lane Configurations | ↔ | | | ↔ | ↔ | |
| Traffic Volume (vph) | 1224 | 17 | 37 | 794 | 6 | 26 |
| Future Volume (vph) | 1224 | 17 | 37 | 794 | 6 | 26 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Lane Width (ft) | 15 | 12 | 12 | 15 | 13 | 12 |
| Grade (%) | 0% | | | 1% | -2% | |
| Lane Util. Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Frt | 0.998 | | | | 0.890 | |
| Flt Protected | | | | 0.998 | 0.991 | |
| Satd. Flow (prot) | 2022 | 0 | 0 | 1978 | 1688 | 0 |
| Flt Permitted | | | | 0.693 | 0.991 | |
| Satd. Flow (perm) | 2022 | 0 | 0 | 1374 | 1688 | 0 |
| Right Turn on Red | | Yes | | | | Yes |
| Satd. Flow (RTOR) | 2 | | | | 27 | |
| Link Speed (mph) | 45 | | | 45 | 30 | |
| Link Distance (ft) | 745 | | | 1084 | 732 | |
| Travel Time (s) | 11.3 | | | 16.4 | 16.6 | |
| Peak Hour Factor | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Heavy Vehicles (%) | 3% | 15% | 3% | 5% | 2% | 4% |
| Adj. Flow (vph) | 1288 | 18 | 39 | 836 | 6 | 27 |
| Shared Lane Traffic (%) | | | | | | |
| Lane Group Flow (vph) | 1306 | 0 | 0 | 875 | 33 | 0 |
| Enter Blocked Intersection | No | No | No | No | No | No |
| Lane Alignment | Left | Right | Left | Left | Left | Right |
| Median Width(ft) | 0 | | | 0 | 13 | |
| Link Offset(ft) | 0 | | | 0 | 0 | |
| Crosswalk Width(ft) | 16 | | | 16 | 16 | |
| Two way Left Turn Lane | | | | | | |
| Headway Factor | 0.88 | 1.00 | 1.01 | 0.89 | 0.95 | 0.99 |
| Turning Speed (mph) | | 9 | 15 | | 15 | 9 |
| Number of Detectors | 2 | | 1 | 2 | 2 | |
| Detector Template | | | Left | | | |
| Leading Detector (ft) | 83 | | 20 | 83 | 83 | |
| Trailing Detector (ft) | -5 | | 0 | -5 | -5 | |
| Detector 1 Position(ft) | -5 | | 0 | -5 | -5 | |
| Detector 1 Size(ft) | 40 | | 20 | 40 | 40 | |
| Detector 1 Type | CI+Ex | | CI+Ex | CI+Ex | CI+Ex | |
| Detector 1 Channel | | | | | | |
| Detector 1 Extend (s) | 0.0 | | 0.0 | 0.0 | 0.0 | |
| Detector 1 Queue (s) | 0.0 | | 0.0 | 0.0 | 0.0 | |
| Detector 1 Delay (s) | 0.0 | | 0.0 | 0.0 | 0.0 | |
| Detector 2 Position(ft) | 43 | | | 43 | 43 | |
| Detector 2 Size(ft) | 40 | | | 40 | 40 | |
| Detector 2 Type | CI+Ex | | | CI+Ex | CI+Ex | |
| Detector 2 Channel | | | | | | |
| Detector 2 Extend (s) | 0.0 | | | 0.0 | 0.0 | |
| Turn Type | NA | | Perm | NA | Prot | |
| Protected Phases | 4 | | | 8 | 2 | |
| Permitted Phases | | | 8 | | | |
| Detector Phase | 4 | | 8 | 8 | 2 | |
| Switch Phase | | | | | | |
| Minimum Initial (s) | 5.0 | | 5.0 | 5.0 | 5.0 | |
| Minimum Split (s) | 23.0 | | 23.0 | 23.0 | 23.0 | |

2026 Build Traffic Volumes (W/ Improvements)
 7: Garden Lane & Crompond Road

Peak AM Hour
 06/08/2022

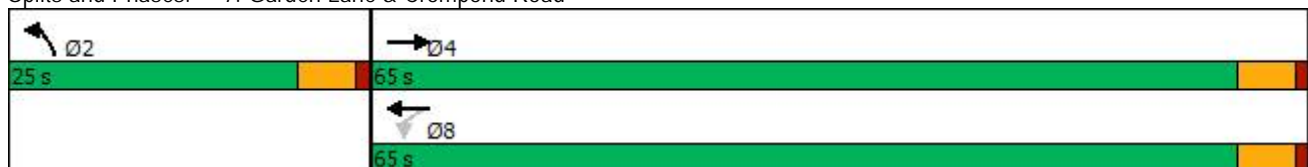


| Lane Group | EBT | EBR | WBL | WBT | NBL | NBR |
|-------------------------|-------|-----|-------|-------|-------|-----|
| Total Split (s) | 65.0 | | 65.0 | 65.0 | 25.0 | |
| Total Split (%) | 72.2% | | 72.2% | 72.2% | 27.8% | |
| Maximum Green (s) | 60.0 | | 60.0 | 60.0 | 20.0 | |
| Yellow Time (s) | 4.0 | | 4.0 | 4.0 | 4.0 | |
| All-Red Time (s) | 1.0 | | 1.0 | 1.0 | 1.0 | |
| Lost Time Adjust (s) | 0.0 | | | 0.0 | 0.0 | |
| Total Lost Time (s) | 5.0 | | | 5.0 | 5.0 | |
| Lead/Lag | | | | | | |
| Lead-Lag Optimize? | | | | | | |
| Vehicle Extension (s) | 3.0 | | 3.0 | 3.0 | 3.0 | |
| Recall Mode | None | | None | None | Min | |
| v/c Ratio | 0.82 | | | 0.81 | 0.20 | |
| Control Delay | 11.1 | | | 13.2 | 18.6 | |
| Queue Delay | 0.0 | | | 0.0 | 0.0 | |
| Total Delay | 11.1 | | | 13.2 | 18.6 | |
| Queue Length 50th (ft) | 251 | | | 165 | 3 | |
| Queue Length 95th (ft) | 534 | | | #484 | 28 | |
| Internal Link Dist (ft) | 665 | | | 1004 | 652 | |
| Turn Bay Length (ft) | | | | | | |
| Base Capacity (vph) | 1590 | | | 1080 | 462 | |
| Starvation Cap Reductn | 0 | | | 0 | 0 | |
| Spillback Cap Reductn | 0 | | | 0 | 0 | |
| Storage Cap Reductn | 0 | | | 0 | 0 | |
| Reduced v/c Ratio | 0.82 | | | 0.81 | 0.07 | |

Intersection Summary

Area Type: Other
 Cycle Length: 90
 Actuated Cycle Length: 76.3
 Natural Cycle: 120
 Control Type: Actuated-Uncoordinated
 # 95th percentile volume exceeds capacity, queue may be longer.
 Queue shown is maximum after two cycles.

Splits and Phases: 7: Garden Lane & Crompond Road



2026 Build Traffic Volumes (W/ Improvements)
7: Garden Lane & Crompond Road

Peak AM Hour
06/08/2022



| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
|------------------------------|------|------|------|------|------|------|
| Lane Configurations | ↩ | | | ↩ | ↩ | ↩ |
| Traffic Volume (veh/h) | 1224 | 17 | 37 | 794 | 6 | 26 |
| Future Volume (veh/h) | 1224 | 17 | 37 | 794 | 6 | 26 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | | 1.00 | 1.00 | | 1.00 | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | No | |
| Adj Sat Flow, veh/h/ln | 1930 | 1678 | 1850 | 1893 | 2027 | 1919 |
| Adj Flow Rate, veh/h | 1288 | 18 | 39 | 836 | 6 | 27 |
| Peak Hour Factor | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Percent Heavy Veh, % | 3 | 15 | 3 | 5 | 2 | 4 |
| Cap, veh/h | 1455 | 20 | 79 | 1101 | 24 | 109 |
| Arrive On Green | 0.77 | 0.77 | 0.77 | 0.77 | 0.08 | 0.08 |
| Sat Flow, veh/h | 1898 | 27 | 26 | 1437 | 311 | 1397 |
| Grp Volume(v), veh/h | 0 | 1306 | 875 | 0 | 34 | 0 |
| Grp Sat Flow(s),veh/h/ln | 0 | 1925 | 1463 | 0 | 1760 | 0 |
| Q Serve(g_s), s | 0.0 | 31.6 | 10.1 | 0.0 | 1.2 | 0.0 |
| Cycle Q Clear(g_c), s | 0.0 | 31.6 | 41.7 | 0.0 | 1.2 | 0.0 |
| Prop In Lane | | 0.01 | 0.04 | | 0.18 | 0.79 |
| Lane Grp Cap(c), veh/h | 0 | 1475 | 1180 | 0 | 137 | 0 |
| V/C Ratio(X) | 0.00 | 0.89 | 0.74 | 0.00 | 0.25 | 0.00 |
| Avail Cap(c_a), veh/h | 0 | 1799 | 1456 | 0 | 548 | 0 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh | 0.0 | 5.4 | 4.6 | 0.0 | 27.8 | 0.0 |
| Incr Delay (d2), s/veh | 0.0 | 4.9 | 1.6 | 0.0 | 0.9 | 0.0 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.0 | 4.4 | 1.5 | 0.0 | 0.5 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | |
| LnGrp Delay(d),s/veh | 0.0 | 10.4 | 6.2 | 0.0 | 28.8 | 0.0 |
| LnGrp LOS | A | B | A | A | C | A |
| Approach Vol, veh/h | 1306 | | | 875 | 34 | |
| Approach Delay, s/veh | 10.4 | | | 6.2 | 28.8 | |
| Approach LOS | B | | | A | C | |
| Timer - Assigned Phs | | 2 | | 4 | | 8 |
| Phs Duration (G+Y+Rc), s | | 10.0 | | 54.2 | | 54.2 |
| Change Period (Y+Rc), s | | 5.0 | | 5.0 | | 5.0 |
| Max Green Setting (Gmax), s | | 20.0 | | 60.0 | | 60.0 |
| Max Q Clear Time (g_c+I1), s | | 3.2 | | 33.6 | | 43.7 |
| Green Ext Time (p_c), s | | 0.1 | | 12.6 | | 5.5 |

Intersection Summary

| | |
|--------------------|-----|
| HCM 6th Ctrl Delay | 9.0 |
| HCM 6th LOS | A |

Notes

User approved volume balancing among the lanes for turning movement.

2026 Build Traffic Volumes (W/ Improvements)
7: Garden Lane & Crompond Road

Peak PM Hour
06/07/2022



| Lane Group | EBT | EBR | WBL | WBT | NBL | NBR |
|----------------------------|-------|-------|-------|-------|-------|-------|
| Lane Configurations | | | | | | |
| Traffic Volume (vph) | 1063 | 20 | 26 | 1178 | 11 | 24 |
| Future Volume (vph) | 1063 | 20 | 26 | 1178 | 11 | 24 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Lane Width (ft) | 15 | 12 | 12 | 15 | 13 | 12 |
| Grade (%) | 0% | | | 1% | -2% | |
| Lane Util. Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Frt | 0.998 | | | | 0.909 | |
| Flt Protected | | | | 0.999 | 0.984 | |
| Satd. Flow (prot) | 2024 | 0 | 0 | 2014 | 1572 | 0 |
| Flt Permitted | | | | 0.965 | 0.984 | |
| Satd. Flow (perm) | 2024 | 0 | 0 | 1946 | 1572 | 0 |
| Right Turn on Red | | Yes | | | | Yes |
| Satd. Flow (RTOR) | 2 | | | | 25 | |
| Link Speed (mph) | 45 | | | 45 | 30 | |
| Link Distance (ft) | 745 | | | 1084 | 732 | |
| Travel Time (s) | 11.3 | | | 16.4 | 16.6 | |
| Peak Hour Factor | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Heavy Vehicles (%) | 3% | 7% | 9% | 3% | 2% | 18% |
| Adj. Flow (vph) | 1119 | 21 | 27 | 1240 | 12 | 25 |
| Shared Lane Traffic (%) | | | | | | |
| Lane Group Flow (vph) | 1140 | 0 | 0 | 1267 | 37 | 0 |
| Enter Blocked Intersection | No | No | No | No | No | No |
| Lane Alignment | Left | Right | Left | Left | Left | Right |
| Median Width(ft) | 0 | | | 0 | 13 | |
| Link Offset(ft) | 0 | | | 0 | 0 | |
| Crosswalk Width(ft) | 16 | | | 16 | 16 | |
| Two way Left Turn Lane | | | | | | |
| Headway Factor | 0.88 | 1.00 | 1.01 | 0.89 | 0.95 | 0.99 |
| Turning Speed (mph) | | 9 | 15 | | 15 | 9 |
| Number of Detectors | 2 | | 1 | 2 | 2 | |
| Detector Template | | | Left | | | |
| Leading Detector (ft) | 83 | | 20 | 83 | 83 | |
| Trailing Detector (ft) | -5 | | 0 | -5 | -5 | |
| Detector 1 Position(ft) | -5 | | 0 | -5 | -5 | |
| Detector 1 Size(ft) | 40 | | 20 | 40 | 40 | |
| Detector 1 Type | CI+Ex | | CI+Ex | CI+Ex | CI+Ex | |
| Detector 1 Channel | | | | | | |
| Detector 1 Extend (s) | 0.0 | | 0.0 | 0.0 | 0.0 | |
| Detector 1 Queue (s) | 0.0 | | 0.0 | 0.0 | 0.0 | |
| Detector 1 Delay (s) | 0.0 | | 0.0 | 0.0 | 0.0 | |
| Detector 2 Position(ft) | 43 | | | 43 | 43 | |
| Detector 2 Size(ft) | 40 | | | 40 | 40 | |
| Detector 2 Type | CI+Ex | | | CI+Ex | CI+Ex | |
| Detector 2 Channel | | | | | | |
| Detector 2 Extend (s) | 0.0 | | | 0.0 | 0.0 | |
| Turn Type | NA | | Perm | NA | Prot | |
| Protected Phases | 4 | | | 8 | 2 | |
| Permitted Phases | | | 8 | | | |
| Detector Phase | 4 | | 8 | 8 | 2 | |
| Switch Phase | | | | | | |
| Minimum Initial (s) | 5.0 | | 5.0 | 5.0 | 5.0 | |
| Minimum Split (s) | 23.0 | | 23.0 | 23.0 | 23.0 | |

2026 Build Traffic Volumes (W/ Improvements)
 7: Garden Lane & Crompond Road

Peak PM Hour
 06/07/2022

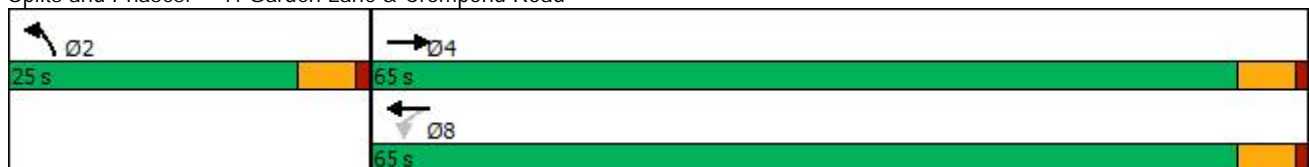


| Lane Group | EBT | EBR | WBL | WBT | NBL | NBR |
|-------------------------|-------|-----|-------|-------|-------|-----|
| Total Split (s) | 65.0 | | 65.0 | 65.0 | 25.0 | |
| Total Split (%) | 72.2% | | 72.2% | 72.2% | 27.8% | |
| Maximum Green (s) | 60.0 | | 60.0 | 60.0 | 20.0 | |
| Yellow Time (s) | 4.0 | | 4.0 | 4.0 | 4.0 | |
| All-Red Time (s) | 1.0 | | 1.0 | 1.0 | 1.0 | |
| Lost Time Adjust (s) | 0.0 | | | 0.0 | 0.0 | |
| Total Lost Time (s) | 5.0 | | | 5.0 | 5.0 | |
| Lead/Lag | | | | | | |
| Lead-Lag Optimize? | | | | | | |
| Vehicle Extension (s) | 3.0 | | 3.0 | 3.0 | 3.0 | |
| Recall Mode | None | | None | None | Min | |
| v/c Ratio | 0.72 | | | 0.83 | 0.24 | |
| Control Delay | 7.6 | | | 12.1 | 21.5 | |
| Queue Delay | 0.0 | | | 0.0 | 0.0 | |
| Total Delay | 7.6 | | | 12.1 | 21.5 | |
| Queue Length 50th (ft) | 184 | | | 256 | 5 | |
| Queue Length 95th (ft) | 364 | | | #586 | 33 | |
| Internal Link Dist (ft) | 665 | | | 1004 | 652 | |
| Turn Bay Length (ft) | | | | | | |
| Base Capacity (vph) | 1586 | | | 1525 | 429 | |
| Starvation Cap Reductn | 0 | | | 0 | 0 | |
| Spillback Cap Reductn | 0 | | | 0 | 0 | |
| Storage Cap Reductn | 0 | | | 0 | 0 | |
| Reduced v/c Ratio | 0.72 | | | 0.83 | 0.09 | |

Intersection Summary

Area Type: Other
 Cycle Length: 90
 Actuated Cycle Length: 76.6
 Natural Cycle: 100
 Control Type: Actuated-Uncoordinated
 # 95th percentile volume exceeds capacity, queue may be longer.
 Queue shown is maximum after two cycles.

Splits and Phases: 7: Garden Lane & Crompond Road



2026 Build Traffic Volumes (W/ Improvements)
7: Garden Lane & Crompond Road

Peak PM Hour
06/07/2022



| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
|------------------------------|------|------|------|------|------|------|
| Lane Configurations | | | | | | |
| Traffic Volume (veh/h) | 1063 | 20 | 26 | 1178 | 11 | 24 |
| Future Volume (veh/h) | 1063 | 20 | 26 | 1178 | 11 | 24 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | | 1.00 | 1.00 | | 1.00 | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | No | |
| Adj Sat Flow, veh/h/ln | 1930 | 1796 | 1761 | 1924 | 2027 | 1708 |
| Adj Flow Rate, veh/h | 1119 | 21 | 27 | 1240 | 12 | 25 |
| Peak Hour Factor | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Percent Heavy Veh, % | 3 | 7 | 9 | 3 | 2 | 18 |
| Cap, veh/h | 1412 | 26 | 75 | 1389 | 47 | 99 |
| Arrive On Green | 0.75 | 0.75 | 0.75 | 0.75 | 0.08 | 0.08 |
| Sat Flow, veh/h | 1888 | 35 | 17 | 1858 | 564 | 1176 |
| Grp Volume(v), veh/h | 0 | 1140 | 1267 | 0 | 38 | 0 |
| Grp Sat Flow(s),veh/h/ln | 0 | 1923 | 1875 | 0 | 1787 | 0 |
| Q Serve(g_s), s | 0.0 | 21.8 | 5.3 | 0.0 | 1.2 | 0.0 |
| Cycle Q Clear(g_c), s | 0.0 | 21.8 | 29.8 | 0.0 | 1.2 | 0.0 |
| Prop In Lane | | 0.02 | 0.02 | | 0.32 | 0.66 |
| Lane Grp Cap(c), veh/h | 0 | 1439 | 1464 | 0 | 150 | 0 |
| V/C Ratio(X) | 0.00 | 0.79 | 0.87 | 0.00 | 0.25 | 0.00 |
| Avail Cap(c_a), veh/h | 0 | 1939 | 1937 | 0 | 601 | 0 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh | 0.0 | 4.6 | 5.6 | 0.0 | 25.5 | 0.0 |
| Incr Delay (d2), s/veh | 0.0 | 1.7 | 3.4 | 0.0 | 0.9 | 0.0 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 0.0 | 2.3 | 3.6 | 0.0 | 0.5 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | |
| LnGrp Delay(d),s/veh | 0.0 | 6.3 | 9.0 | 0.0 | 26.4 | 0.0 |
| LnGrp LOS | A | A | A | A | C | A |
| Approach Vol, veh/h | 1140 | | | 1267 | 38 | |
| Approach Delay, s/veh | 6.3 | | | 9.0 | 26.4 | |
| Approach LOS | A | | | A | C | |
| Timer - Assigned Phs | | 2 | | 4 | | 8 |
| Phs Duration (G+Y+Rc), s | | 10.0 | | 49.5 | | 49.5 |
| Change Period (Y+Rc), s | | 5.0 | | 5.0 | | 5.0 |
| Max Green Setting (Gmax), s | | 20.0 | | 60.0 | | 60.0 |
| Max Q Clear Time (g_c+I1), s | | 3.2 | | 23.8 | | 31.8 |
| Green Ext Time (p_c), s | | 0.1 | | 10.5 | | 12.7 |

Intersection Summary

| | |
|--------------------|-----|
| HCM 6th Ctrl Delay | 8.0 |
| HCM 6th LOS | A |

Notes

User approved volume balancing among the lanes for turning movement.

Traffic Impact Study

Appendix E | Traffic Signal Warrant Analysis

TABLE TSW-1

**SIGNAL WARRANTS ANALYSIS
CROMPOND ROAD AT GARDEN LANE
WARRANT ANALYSIS SUMMARY**

| INTERSECTION DATA | |
|--|--|
| Major Street: | Crompond Road (US Rte 202/ NYS Rte 35) |
| Minor Street: | Garden Lane |
| Location: | Town of Yorktown, Westchester County, New York |
| Date: | 6/8/2022 |
| Volume Basis: | 2022 Existing Traffic Volumes |
| Condition: | Typical Weekday |
| Number of Lanes For Moving Traffic By Approach | |
| | Major Street (Excluding Auxiliary Lanes) = 1 |
| | Minor Street (Including Auxiliary Lanes) = 1 |
| Major Street Speed | |
| | 85TH Percentile Speed >= 40 mph (Y or N): 45 |
| Community Population | |
| | Community < 10,000 (Y or N): N |
| WARRANT ANALYSIS SUMMARY | |
| Warrant 1 - Eight-Hour Vehicular Volume | |
| Condition A - Minimum Vehicular Volume | Not Satisfied -- No Signal |
| Condition B - Minimum Vehicular Interruption of Continuous Traffic | Not Satisfied -- No Signal |
| Condition A & B Combined Condition | Not Applicable |
| Warrant 1 Satisfied: | NO |
| Warrant 2 - Four-Hour Vehicular Volume | |
| Four-Hour Vehicular Volume | Not Satisfied -- No Signal |
| Warrant 2 Satisfied: | NO |
| Warrant 3 - Peak Hour | |
| Peak Hour Volume | Not Satisfied -- No Signal |
| Warrant 3 Satisfied: | NO |
| Warrant 4 - Pedestrian Volume Warrant | |
| Condition A - Pedestrian Four-Hour Volume | Not Applicable |
| Condition B - Pedestrian Peak Hour Volume | Not Applicable |
| Warrant 4 Satisfied: | Not Applicable |
| Warrant 5 - School Crossing | |
| Warrant 5 Satisfied: | Not Applicable |
| Warrant 6 - Coordinated Signal System | |
| Warrant 6 Satisfied: | Not Applicable |
| Warrant 7 - Crash Experience | |
| Warrant 7 Satisfied: | Not Applicable |
| Warrant 8 - Roadway Network | |
| Warrant 7 Satisfied: | Not Applicable |
| Warrant 9 - Intersection Near a Grade Crossing | |
| Condition A - Distance to Rail | Not Applicable |
| Condition B - Traffic Volume Warrant | Not Applicable |
| Warrant 9 Satisfied: | Not Applicable |

TABLE TSW-1

**SIGNAL WARRANTS ANALYSIS
CROMPOND ROAD AT GARDEN LANE
WARRANT 1 - EIGHT-HOUR VEHICULAR VOLUME**

| INTERSECTION DATA | | | |
|----------------------|--|---|---|
| Major Street: | Crompond Road (US Rte 202/ NYS Rte 35) | Number of Lanes For Moving Traffic By Approach | |
| Minor Street: | Garden Lane | Major Street (Excluding Auxiliary Lanes) = | 1 |
| | | Minor Street (Including Auxiliary Lanes) = | 1 |
| Location: | Town of Yorktown, Westchester County, New York | | |
| | | Major Street Speed | |
| Date: | 6/8/2022 | 85TH Percentile Speed >= 40 mph (Y or N): | Y |
| Volume Basis: | 2022 Existing Traffic Volumes | Community Population | |
| | | Community < 10,000 (Y or N): | N |
| Condition: | Typical Weekday | | |

| WARRANT ANALYSIS | | | | | | | | | | | | | | |
|------------------|--------------|--------------|-----------------------|--------------|-----------------------|--------------|---------------------------|--------------|--------------|--------------|--------------|------------|----------|-----|
| Time of Day | Volumes | | Warrant 1 Condition A | | Warrant 1 Condition B | | Warrant 1 Condition A & B | | | | Warrant Met? | | | |
| | Major Street | Minor Street | Major Street | Minor Street | Major Street | Minor Street | Condition A | | Condition B | | Warrant 1A | Warrant 1B | Combined | |
| | | | | | | | Major Street | Minor Street | Major Street | Minor Street | | | 1A | 1B |
| 12:00 AM | 129 | 2 | 350 | 105 | 525 | 53 | 280 | 84 | 420 | 42 | NO | NO | N/A | N/A |
| 1:00 AM | 64 | 1 | 350 | 105 | 525 | 53 | 280 | 84 | 420 | 42 | NO | NO | N/A | N/A |
| 2:00 AM | 63 | 1 | 350 | 105 | 525 | 53 | 280 | 84 | 420 | 42 | NO | NO | N/A | N/A |
| 3:00 AM | 62 | 1 | 350 | 105 | 525 | 53 | 280 | 84 | 420 | 42 | NO | NO | N/A | N/A |
| 4:00 AM | 172 | 3 | 350 | 105 | 525 | 53 | 280 | 84 | 420 | 42 | NO | NO | N/A | N/A |
| 5:00 AM | 480 | 9 | 350 | 105 | 525 | 53 | 280 | 84 | 420 | 42 | NO | NO | N/A | N/A |
| 6:00 AM | 1,303 | 23 | 350 | 105 | 525 | 53 | 280 | 84 | 420 | 42 | NO | NO | N/A | N/A |
| 7:00 AM | 1,936 | 24 | 350 | 105 | 525 | 53 | 280 | 84 | 420 | 42 | NO | NO | N/A | N/A |
| 8:00 AM | 1,859 | 33 | 350 | 105 | 525 | 53 | 280 | 84 | 420 | 42 | NO | NO | N/A | N/A |
| 9:00 AM | 1,574 | 28 | 350 | 105 | 525 | 53 | 280 | 84 | 420 | 42 | NO | NO | N/A | N/A |
| 10:00 AM | 1,351 | 24 | 350 | 105 | 525 | 53 | 280 | 84 | 420 | 42 | NO | NO | N/A | N/A |
| 11:00 AM | 1,617 | 17 | 350 | 105 | 525 | 53 | 280 | 84 | 420 | 42 | NO | NO | N/A | N/A |
| 12:00 PM | 1,693 | 18 | 350 | 105 | 525 | 53 | 280 | 84 | 420 | 42 | NO | NO | N/A | N/A |
| 1:00 PM | 1,697 | 18 | 350 | 105 | 525 | 53 | 280 | 84 | 420 | 42 | NO | NO | N/A | N/A |
| 2:00 PM | 1,894 | 20 | 350 | 105 | 525 | 53 | 280 | 84 | 420 | 42 | NO | NO | N/A | N/A |
| 3:00 PM | 2,071 | 21 | 350 | 105 | 525 | 53 | 280 | 84 | 420 | 42 | NO | NO | N/A | N/A |
| 4:00 PM | 2,023 | 21 | 350 | 105 | 525 | 53 | 280 | 84 | 420 | 42 | NO | NO | N/A | N/A |
| 5:00 PM | 2,011 | 38 | 350 | 105 | 525 | 53 | 280 | 84 | 420 | 42 | NO | NO | N/A | N/A |
| 6:00 PM | 1,833 | 19 | 350 | 105 | 525 | 53 | 280 | 84 | 420 | 42 | NO | NO | N/A | N/A |
| 7:00 PM | 1,240 | 13 | 350 | 105 | 525 | 53 | 280 | 84 | 420 | 42 | NO | NO | N/A | N/A |
| 8:00 PM | 850 | 9 | 350 | 105 | 525 | 53 | 280 | 84 | 420 | 42 | NO | NO | N/A | N/A |
| 9:00 PM | 575 | 6 | 350 | 105 | 525 | 53 | 280 | 84 | 420 | 42 | NO | NO | N/A | N/A |
| 10:00 PM | 405 | 4 | 350 | 105 | 525 | 53 | 280 | 84 | 420 | 42 | NO | NO | N/A | N/A |
| 11:00 PM | 241 | 3 | 350 | 105 | 525 | 53 | 280 | 84 | 420 | 42 | NO | NO | N/A | N/A |

| | | | | |
|--------------------------------------|---|---|----|----|
| Total Hours Meeting Warrants | 0 | 0 | 0 | 0 |
| Total Hours Needed to Satisfy | 8 | 8 | 8* | 8* |

| WARRANT 1 SUMMARY | |
|---|----------------------------|
| Warrant 1 Condition A - Minimum Vehicular Volume | Not Satisfied -- No Signal |
| Warrant 1 Condition B - Interruption of Continuous Traffic | Not Satisfied -- No Signal |
| Warrant 1A & 1B Combined Condition | Not Applicable |
| *Note: For Combined Warrant Both Conditions 1A & 1B Must Be Satisfied for a Minimum of 8 Hours. | |

TABLE TSW-1

**SIGNAL WARRANTS ANALYSIS
CROMPOND ROAD AT GARDEN LANE
WARRANT 2 - FOUR-HOUR VEHICULAR VOLUME & WARRANT 3 - PEAK HOUR**

| INTERSECTION DATA | | | |
|-------------------|--|--|---|
| Major Street: | Crompond Road (US Rte 202/ NYS Rte 35) | Number of Lanes For Moving Traffic By Approach | |
| Minor Street: | Garden Lane | Major Street (Excluding Auxiliary Lanes) = | 1 |
| | | Minor Street (Including Auxiliary Lanes) = | 1 |
| Location: | Town of Yorktown, Westchester County, New York | | |
| | | Major Street Speed | |
| Date: | 6/8/2022 | 85TH Percentile Speed >= 40 mph (Y or N): | Y |
| Volume Basis: | 2022 Existing Traffic Volumes | Community Population | |
| | | Community < 10,000 (Y or N): | N |
| Condition: | Typical Weekday | | |

| WARRANT ANALYSIS | | | | | | | | |
|------------------|--------------|--------------|------------------------|--------------|------------------------|--------------|--------------|-----------|
| Time of Day | Volumes | | Warrant 2 ¹ | | Warrant 3 ¹ | | Warrant Met? | |
| | Major Street | Minor Street | Major Street | Minor Street | Major Street | Minor Street | Warrant 2 | Warrant 3 |
| 12:00 AM | 129 | 2 | See Figure 4C-2 | | See Figure 4C-4 | | NO | NO |
| 1:00 AM | 64 | 1 | | | | | NO | NO |
| 2:00 AM | 63 | 1 | | | | | NO | NO |
| 3:00 AM | 62 | 1 | | | | | NO | NO |
| 4:00 AM | 172 | 3 | | | | | NO | NO |
| 5:00 AM | 480 | 9 | | | | | NO | NO |
| 6:00 AM | 1,303 | 23 | | | | | NO | NO |
| 7:00 AM | 1,936 | 24 | | | | | NO | NO |
| 8:00 AM | 1,859 | 33 | | | | | NO | NO |
| 9:00 AM | 1,574 | 28 | | | | | NO | NO |
| 10:00 AM | 1,351 | 24 | | | | | NO | NO |
| 11:00 AM | 1,617 | 17 | | | | | NO | NO |
| 12:00 PM | 1,693 | 18 | | | | | NO | NO |
| 1:00 PM | 1,697 | 18 | | | | | NO | NO |
| 2:00 PM | 1,894 | 20 | | | | | NO | NO |
| 3:00 PM | 2,071 | 21 | | | | | NO | NO |
| 4:00 PM | 2,023 | 21 | | | | | NO | NO |
| 5:00 PM | 2,011 | 38 | | | | | NO | NO |
| 6:00 PM | 1,833 | 19 | | | | | NO | NO |
| 7:00 PM | 1,240 | 13 | | | | | NO | NO |
| 8:00 PM | 850 | 9 | | | | | NO | NO |
| 9:00 PM | 575 | 6 | | | | | NO | NO |
| 10:00 PM | 405 | 4 | | | | | NO | NO |
| 11:00 PM | 241 | 3 | | | | | NO | NO |

| | | |
|-------------------------------|---|---|
| Total Hours Meeting Warrants | 0 | 0 |
| Total Hours Needed to Satisfy | 4 | 1 |

| WARRANTS 2 & 3 SUMMARY | |
|--|----------------------------|
| Warrant 2 - Four Hour Vehicular Volume | Not Satisfied -- No Signal |
| Warrant 3 - Peak Hour Volume | Not Satisfied -- No Signal |

Notes:

1) Volumes for Warrants 2 & 3 are compared to attached MUTCD Figures 4C-2 and 4C-4, respectively.

Table TSW-1

Figure 4C-2

Intersection

Warrant 2 - Four Hour Vehicular Warrant (70% Factor)

(Community Less than 10,000 Population or 85th Percentile Speed Above 40 MPH on Major Street)

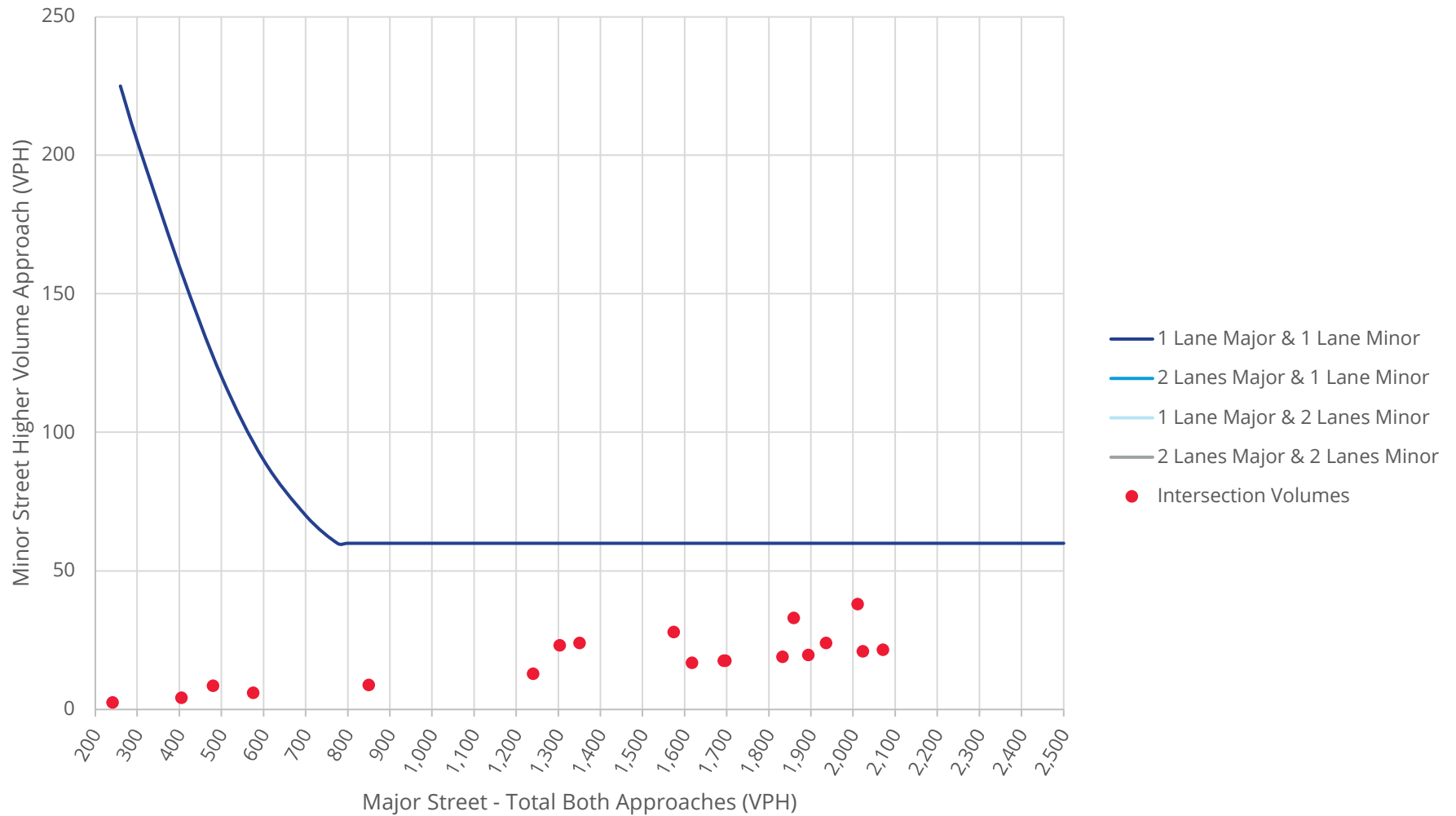


Table TSW-1

Figure 4C-4

Intersection

Warrant 3 - Peak Hour Warrant (70% Factor)

(Community Less than 10,000 Population or 85th Percentile Speed Above 40 MPH on Major Street)

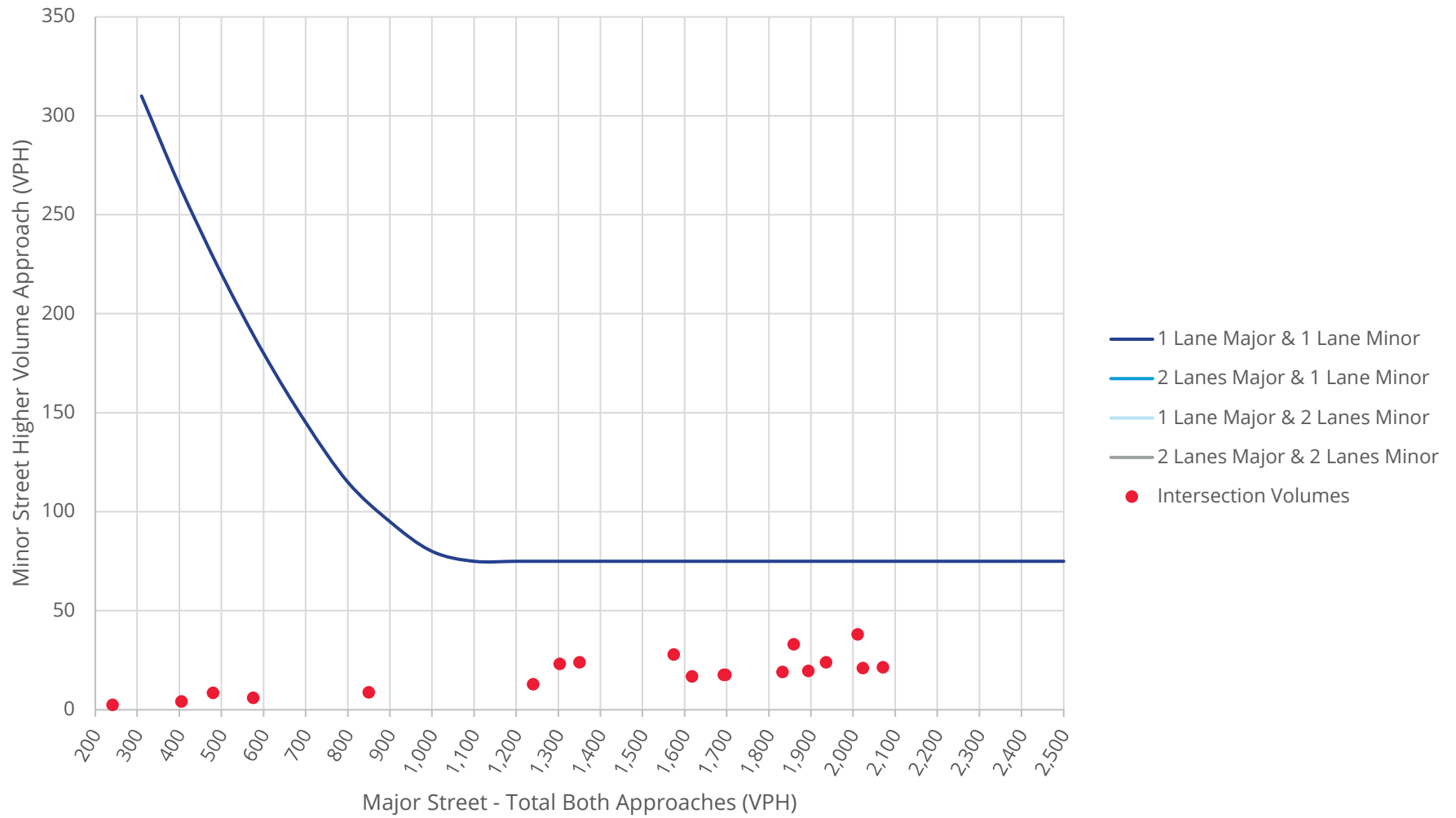


TABLE TSW-2

**SIGNAL WARRANTS ANALYSIS
CROMPOND ROAD AT GARDEN LANE
WARRANT ANALYSIS SUMMARY**

| INTERSECTION DATA | |
|--|--|
| Major Street: | Crompond Road (US Rte 202/ NYS Rte 35) |
| Minor Street: | Garden Lane |
| Location: | Town of Yorktown, Westchester County, New York |
| Date: | 6/8/2022 |
| Volume Basis: | 2026 Build Traffic Volumes |
| Condition: | Typical Weekday |
| Number of Lanes For Moving Traffic By Approach | |
| | Major Street (Excluding Auxiliary Lanes) = 1 |
| | Minor Street (Including Auxiliary Lanes) = 1 |
| Major Street Speed | |
| | 85TH Percentile Speed >= 40 mph (Y or N): 45 |
| Community Population | |
| | Community < 10,000 (Y or N): N |
| WARRANT ANALYSIS SUMMARY | |
| Warrant 1 - Eight-Hour Vehicular Volume | |
| Condition A - Minimum Vehicular Volume | Not Satisfied -- No Signal |
| Condition B - Minimum Vehicular Interruption of Continuous Traffic | Not Satisfied -- No Signal |
| Condition A & B Combined Condition | Not Applicable |
| Warrant 1 Satisfied: | NO |
| Warrant 2 - Four-Hour Vehicular Volume | |
| Four-Hour Vehicular Volume | Not Satisfied -- No Signal |
| Warrant 2 Satisfied: | NO |
| Warrant 3 - Peak Hour | |
| Peak Hour Volume | Not Satisfied -- No Signal |
| Warrant 3 Satisfied: | NO |
| Warrant 4 - Pedestrian Volume Warrant | |
| Condition A - Pedestrian Four-Hour Volume | Not Applicable |
| Condition B - Pedestrian Peak Hour Volume | Not Applicable |
| Warrant 4 Satisfied: | Not Applicable |
| Warrant 5 - School Crossing | |
| Warrant 5 Satisfied: | Not Applicable |
| Warrant 6 - Coordinated Signal System | |
| Warrant 6 Satisfied: | Not Applicable |
| Warrant 7 - Crash Experience | |
| Warrant 7 Satisfied: | Not Applicable |
| Warrant 8 - Roadway Network | |
| Warrant 7 Satisfied: | Not Applicable |
| Warrant 9 - Intersection Near a Grade Crossing | |
| Condition A - Distance to Rail | Not Applicable |
| Condition B - Traffic Volume Warrant | Not Applicable |
| Warrant 9 Satisfied: | Not Applicable |

TABLE TSW-2

**SIGNAL WARRANTS ANALYSIS
CROMPOND ROAD AT GARDEN LANE
WARRANT 1 - EIGHT-HOUR VEHICULAR VOLUME**

| INTERSECTION DATA | | | |
|----------------------|--|---|---|
| Major Street: | Crompond Road (US Rte 202/ NYS Rte 35) | Number of Lanes For Moving Traffic By Approach | |
| Minor Street: | Garden Lane | Major Street (Excluding Auxiliary Lanes) = | 1 |
| | | Minor Street (Including Auxiliary Lanes) = | 1 |
| Location: | Town of Yorktown, Westchester County, New York | | |
| Date: | 6/8/2022 | Major Street Speed | |
| | | 85TH Percentile Speed >= 40 mph (Y or N): | Y |
| Volume Basis: | 2026 Build Traffic Volumes | Community Population | |
| | | Community < 10,000 (Y or N): | N |
| Condition: | Typical Weekday | | |

| WARRANT ANALYSIS | | | | | | | | | | | | | | |
|------------------|--------------|--------------|-----------------------|--------------|-----------------------|--------------|---------------------------|--------------|--------------|--------------|--------------|------------|----------|-----|
| Time of Day | Volumes | | Warrant 1 Condition A | | Warrant 1 Condition B | | Warrant 1 Condition A & B | | | | Warrant Met? | | | |
| | Major Street | Minor Street | Major Street | Minor Street | Major Street | Minor Street | Condition A | | Condition B | | Warrant 1A | Warrant 1B | Combined | |
| | | | | | | | Major Street | Minor Street | Major Street | Minor Street | | | 1A | 1B |
| 12:00 AM | 135 | 3 | 350 | 105 | 525 | 53 | 280 | 84 | 420 | 42 | NO | NO | N/A | N/A |
| 1:00 AM | 66 | 1 | 350 | 105 | 525 | 53 | 280 | 84 | 420 | 42 | NO | NO | N/A | N/A |
| 2:00 AM | 65 | 1 | 350 | 105 | 525 | 53 | 280 | 84 | 420 | 42 | NO | NO | N/A | N/A |
| 3:00 AM | 64 | 1 | 350 | 105 | 525 | 53 | 280 | 84 | 420 | 42 | NO | NO | N/A | N/A |
| 4:00 AM | 179 | 4 | 350 | 105 | 525 | 53 | 280 | 84 | 420 | 42 | NO | NO | N/A | N/A |
| 5:00 AM | 499 | 11 | 350 | 105 | 525 | 53 | 280 | 84 | 420 | 42 | NO | NO | N/A | N/A |
| 6:00 AM | 1,356 | 28 | 350 | 105 | 525 | 53 | 280 | 84 | 420 | 42 | NO | NO | N/A | N/A |
| 7:00 AM | 2,015 | 35 | 350 | 105 | 525 | 53 | 280 | 84 | 420 | 42 | NO | NO | N/A | N/A |
| 8:00 AM | 1,936 | 41 | 350 | 105 | 525 | 53 | 280 | 84 | 420 | 42 | NO | NO | N/A | N/A |
| 9:00 AM | 1,639 | 34 | 350 | 105 | 525 | 53 | 280 | 84 | 420 | 42 | NO | NO | N/A | N/A |
| 10:00 AM | 1,407 | 28 | 350 | 105 | 525 | 53 | 280 | 84 | 420 | 42 | NO | NO | N/A | N/A |
| 11:00 AM | 1,685 | 22 | 350 | 105 | 525 | 53 | 280 | 84 | 420 | 42 | NO | NO | N/A | N/A |
| 12:00 PM | 1,764 | 22 | 350 | 105 | 525 | 53 | 280 | 84 | 420 | 42 | NO | NO | N/A | N/A |
| 1:00 PM | 1,768 | 22 | 350 | 105 | 525 | 53 | 280 | 84 | 420 | 42 | NO | NO | N/A | N/A |
| 2:00 PM | 1,973 | 25 | 350 | 105 | 525 | 53 | 280 | 84 | 420 | 42 | NO | NO | N/A | N/A |
| 3:00 PM | 2,159 | 26 | 350 | 105 | 525 | 53 | 280 | 84 | 420 | 42 | NO | NO | N/A | N/A |
| 4:00 PM | 2,111 | 26 | 350 | 105 | 525 | 53 | 280 | 84 | 420 | 42 | NO | NO | N/A | N/A |
| 5:00 PM | 2,100 | 45 | 350 | 105 | 525 | 53 | 280 | 84 | 420 | 42 | NO | NO | N/A | N/A |
| 6:00 PM | 1,912 | 25 | 350 | 105 | 525 | 53 | 280 | 84 | 420 | 42 | NO | NO | N/A | N/A |
| 7:00 PM | 1,295 | 17 | 350 | 105 | 525 | 53 | 280 | 84 | 420 | 42 | NO | NO | N/A | N/A |
| 8:00 PM | 888 | 12 | 350 | 105 | 525 | 53 | 280 | 84 | 420 | 42 | NO | NO | N/A | N/A |
| 9:00 PM | 601 | 7 | 350 | 105 | 525 | 53 | 280 | 84 | 420 | 42 | NO | NO | N/A | N/A |
| 10:00 PM | 423 | 5 | 350 | 105 | 525 | 53 | 280 | 84 | 420 | 42 | NO | NO | N/A | N/A |
| 11:00 PM | 252 | 3 | 350 | 105 | 525 | 53 | 280 | 84 | 420 | 42 | NO | NO | N/A | N/A |

| | | | | |
|--------------------------------------|---|---|----|----|
| Total Hours Meeting Warrants | 0 | 0 | 0 | 0 |
| Total Hours Needed to Satisfy | 8 | 8 | 8* | 8* |

| WARRANT 1 SUMMARY | |
|---|----------------------------|
| Warrant 1 Condition A - Minimum Vehicular Volume | Not Satisfied -- No Signal |
| Warrant 1 Condition B - Interruption of Continuous Traffic | Not Satisfied -- No Signal |
| Warrant 1A & 1B Combined Condition | Not Applicable |
| *Note: For Combined Warrant Both Conditions 1A & 1B Must Be Satisfied for a Minimum of 8 Hours. | |

TABLE TSW-2

**SIGNAL WARRANTS ANALYSIS
CROMPOND ROAD AT GARDEN LANE
WARRANT 2 - FOUR-HOUR VEHICULAR VOLUME & WARRANT 3 - PEAK HOUR**

| INTERSECTION DATA | | | |
|----------------------|--|---|---|
| Major Street: | Crompond Road (US Rte 202/ NYS Rte 35) | Number of Lanes For Moving Traffic By Approach | |
| Minor Street: | Garden Lane | Major Street (Excluding Auxiliary Lanes) = | 1 |
| | | Minor Street (Including Auxiliary Lanes) = | 1 |
| Location: | Town of Yorktown, Westchester County, New York | | |
| | | Major Street Speed | |
| Date: | 6/8/2022 | 85TH Percentile Speed >= 40 mph (Y or N): | Y |
| Volume Basis: | 2026 Build Traffic Volumes | Community Population | |
| | | Community < 10,000 (Y or N): | N |
| Condition: | Typical Weekday | | |

| WARRANT ANALYSIS | | | | | | | | |
|------------------|--------------|--------------|------------------------|--------------|------------------------|--------------|--------------|-----------|
| Time of Day | Volumes | | Warrant 2 ¹ | | Warrant 3 ¹ | | Warrant Met? | |
| | Major Street | Minor Street | Major Street | Minor Street | Major Street | Minor Street | Warrant 2 | Warrant 3 |
| 12:00 AM | 135 | 3 | See Figure 4C-2 | | See Figure 4C-4 | | NO | NO |
| 1:00 AM | 66 | 1 | | | | | NO | NO |
| 2:00 AM | 65 | 1 | | | | | NO | NO |
| 3:00 AM | 64 | 1 | | | | | NO | NO |
| 4:00 AM | 179 | 4 | | | | | NO | NO |
| 5:00 AM | 499 | 11 | | | | | NO | NO |
| 6:00 AM | 1,356 | 28 | | | | | NO | NO |
| 7:00 AM | 2,015 | 35 | | | | | NO | NO |
| 8:00 AM | 1,936 | 41 | | | | | NO | NO |
| 9:00 AM | 1,639 | 34 | | | | | NO | NO |
| 10:00 AM | 1,407 | 28 | | | | | NO | NO |
| 11:00 AM | 1,685 | 22 | | | | | NO | NO |
| 12:00 PM | 1,764 | 22 | | | | | NO | NO |
| 1:00 PM | 1,768 | 22 | | | | | NO | NO |
| 2:00 PM | 1,973 | 25 | | | | | NO | NO |
| 3:00 PM | 2,159 | 26 | | | | | NO | NO |
| 4:00 PM | 2,111 | 26 | | | | | NO | NO |
| 5:00 PM | 2,100 | 45 | | | | | NO | NO |
| 6:00 PM | 1,912 | 25 | | | | | NO | NO |
| 7:00 PM | 1,295 | 17 | | | | | NO | NO |
| 8:00 PM | 888 | 12 | | | | | NO | NO |
| 9:00 PM | 601 | 7 | | | | | NO | NO |
| 10:00 PM | 423 | 5 | | | | | NO | NO |
| 11:00 PM | 252 | 3 | | | | | NO | NO |

| | | |
|--------------------------------------|---|---|
| Total Hours Meeting Warrants | 0 | 0 |
| Total Hours Needed to Satisfy | 4 | 1 |

| WARRANTS 2 & 3 SUMMARY | |
|--|----------------------------|
| Warrant 2 - Four Hour Vehicular Volume | Not Satisfied -- No Signal |
| Warrant 3 - Peak Hour Volume | Not Satisfied -- No Signal |

Notes:

1) Volumes for Warrants 2 & 3 are compared to attached MUTCD Figures 4C-2 and 4C-4, respectively.

Table TSW-2

Figure 4C-2

Intersection

Warrant 2 - Four Hour Vehicular Warrant (70% Factor)

(Community Less than 10,000 Population or 85th Percentile Speed Above 40 MPH on Major Street)

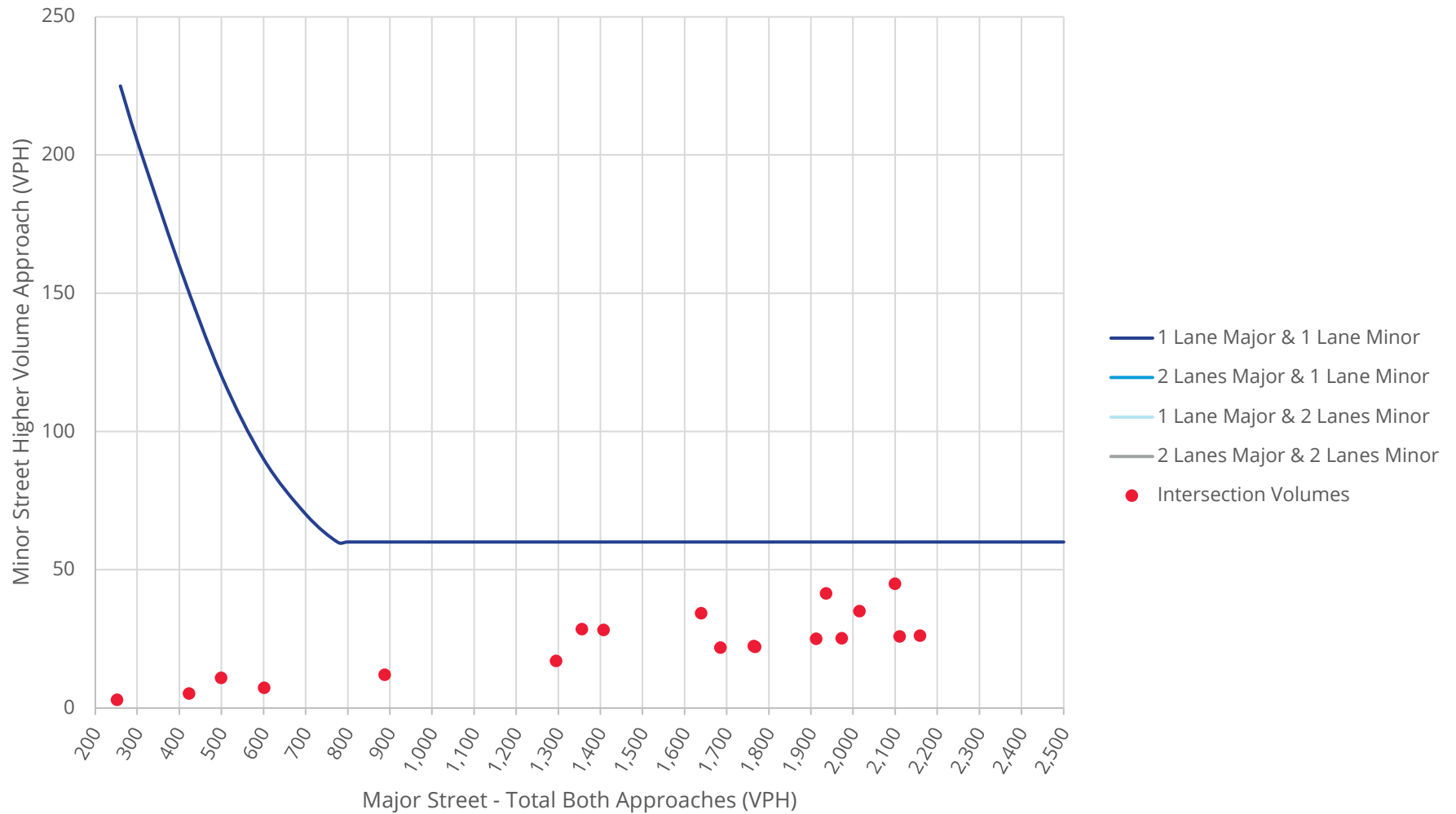


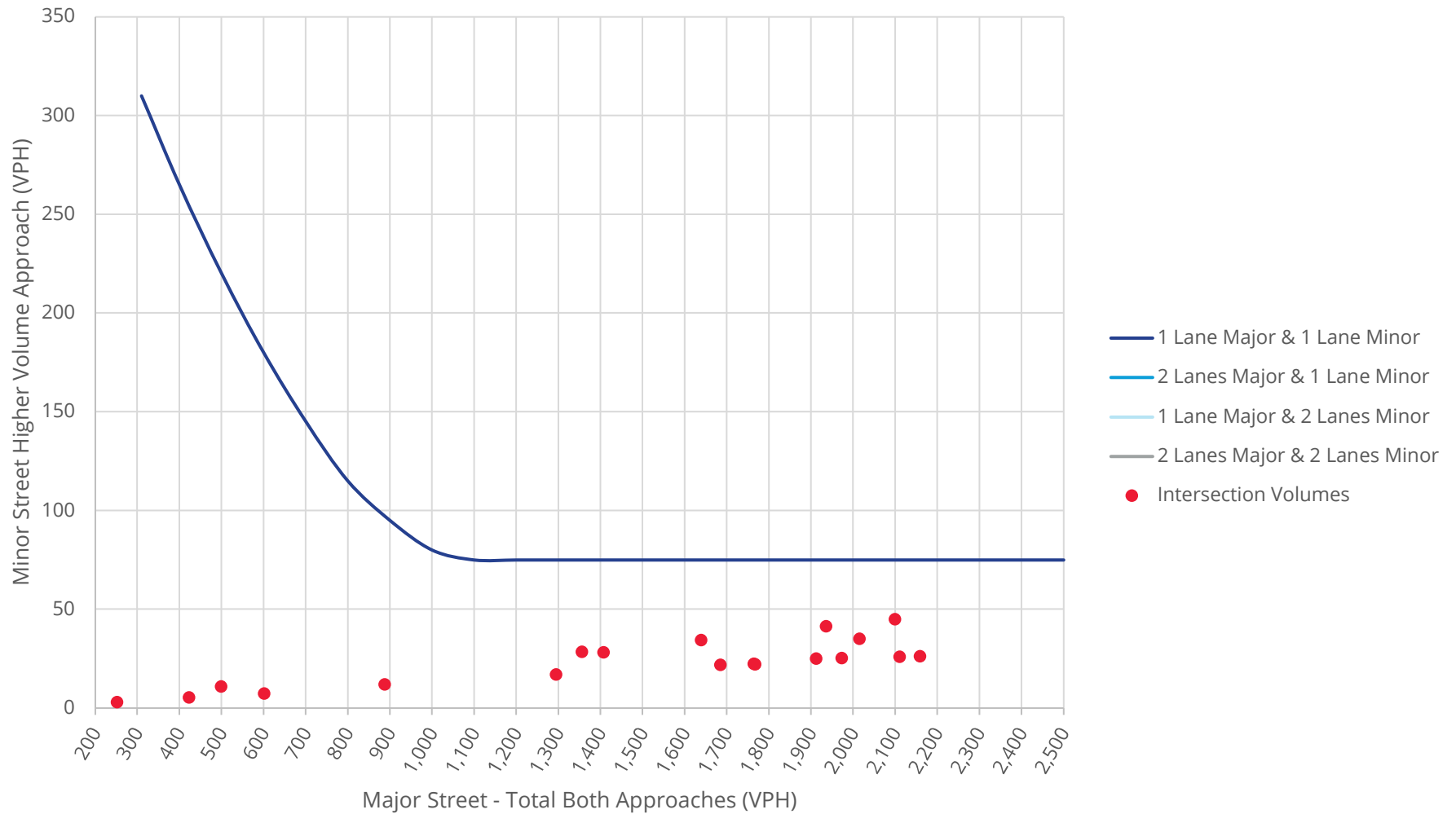
Table TSW-2

Figure 4C-4

Intersection

Warrant 3 - Peak Hour Warrant (70% Factor)

(Community Less than 10,000 Population or 85th Percentile Speed Above 40 MPH on Major Street)





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FISCAL IMPACT ANALYSIS

FIELD HOME PROPERTY

PROPOSED RESIDENTIAL DEVELOPMENT

TOWN OF YORKTOWN, WESTCHESTER COUNTY, NEW YORK

prepared for:

Toll Brothers, Inc.

50-A River Street, Sleepy Hollow, NY 10591

prepared by:

Hannah Mazzaccaro, AICP / NJPP

AICP LICENSE #147777

November 9, 2022

ESE Consultants, Inc.
1140 Virginia Drive · Fort Washington, PA 19034
(215) 914-2050

MEMORANDUM

TO: Kevney Moses, Toll Brothers
FROM: Hannah Mazzaccaro, AICP
DATE: November 9, 2022
RE: Field Home Property
Proposed Residential Development,
Town of Yorktown, Westchester County, NY
FISCAL IMPACT ANALYSIS

ESE Consultants was retained by Toll Brothers to analyze the tax revenue implications of a proposed age-restricted residential condominium community on the Town of Yorktown. Toll Brothers is proposing a 118-unit carriage home development on approximately 50 acres, comprised of single-family attached condominium homes surrounded by open space land, served by a private clubhouse and recreation amenities.

The subject site is a total of +/- 50 acres, comprised of two parcels just north of the Yorktown Rehabilitation, Nursing, and Assisted Living facilities on Catherine Street in Yorktown. The property currently has two buildings on it, but the majority of the site is undeveloped land. Toll Brothers plans to apply to re-zone the property to allow for the proposed development concept under RSP-2 Senior Citizens District zoning.

ESE Consultants used the “Per-Capita Multiplier Method” of Fiscal Impact Analysis to project the annual costs that the town, county, and special districts will incur to provide services on a per-person basis to residents of the new homes (using current budgets for public service costs) and projected the tax revenue each home will pay (using current tax rates), to determine the net fiscal impact of the homes on existing public budgets. The average values of the proposed condominium townhomes were calculated by Cronin & Cronin Law Firm, PLLC, in a separate report they prepared, which is submitted as an addendum to this report.

Our analysis determined that the proposed 118-unit condo carriage home development will provide a surplus of annual tax revenue to the town, county, and school district. ESE’s projection indicates that each new condo on the Field Home site will provide about \$8,625 in surplus property tax revenue each year, paying more into the tax base than they will consume in local services. Most of that benefit will go to the school district, with \$7,601 per

home of surplus school revenue. The town will see about \$915 per home in surplus revenue and the county \$108 per home surplus.

ESE’s fiscal impact calculations are based on the following assumptions:

- Toll Brothers’ proposed 118 units will be assessed as condominiums, using an income capitalization valuation method, as detailed in the accompanying report by Cronin & Cronin, with an average market value per unit of \$393,404.
- The proposed development will be age-restricted 55+ with home designs and amenities designed for and marketed to older adults.
- The analysis is calculated as though the homes were already in existence today, paying the same tax rates as other homes in the same special districts and taxing jurisdictions as the subject property and adjacent existing homes.

DEVELOPMENT SUMMARY

| | Proposed Age-Restricted Carriage Home Concept |
|---|---|
| Number of Homes | 118 Homes |
| Average Market Value Per Home | \$393,404 |
| Total Projected Population | 224 People |
| New Public School Children | 0 Children |
| Average Net Tax Surplus Per Home: | \$8,625 |
| TOTAL Annual Net Surplus Tax Revenues: | \$1,017,702 |

See attached spreadsheets for detailed calculations and source data.

Field Home Property - Proposed Community by Toll Brothers

118 Age-Restricted Carriage Homes

The following calculations model the impact of the proposed development on the 2021/22 Town of Yorktown, Westchester County, and Yorktown School District budgets, as though the homes were already built out and occupied. See attached spreadsheets for detailed calculations.

Summary: ANNUAL FISCAL IMPACTS

| | Annual Property Tax REVENUE | Total Annual Public COST | Annual Net SURPLUS |
|--|--------------------------------|-----------------------------|--------------------|
| TOTAL TOWN SERVICES: (General Fund, Highway Fund, + all Special Districts) | \$271,685 | (\$163,676) | \$108,010 |
| COUNTY SERVICES: (All Westchester County Operations) | \$121,874 | (\$109,151) | \$12,724 |
| SCHOOL SERVICES: (Yorktown School District) | \$896,969 | \$0 | \$896,969 |
| TOTALS: | \$1,290,529 | (\$272,826) | \$1,017,702 |
| TOTAL ANNUAL NET SURPLUS PUBLIC REVENUE: | | | \$1,017,702 |
| AVERAGE Net Surplus Per New Home (Average of 118 Homes): | | | \$8,625 |

Table 1: PROJECTED POPULATION

| | | | |
|---|-----------------------------|---------------|-----------------------|
| 3-Bedroom Age-Restricted Carriage Homes (Children under 18 not permitted as residents) | Residents Per Unit | x Total Units | TOTAL PERSONS |
| | 1.9 | 118 | 224.2 |
| | TOTAL NEW RESIDENTS: | | 224 |
| | Children Under 18 Per Unit | x Total Units | TOTAL STUDENTS |
| | 0 | 118 | 0 |
| | TOTAL NEW STUDENTS: | | 0 |

Average residents per age-restricted home from "Who Lives in New Jersey Housing," published by Rutgers University Center for Urban Policy Research (CUPR) in 2006, "Part Two, Section F: Specialized Housing Residential Multipliers - Age-restricted Housing." This publication is widely used for community impact analysis demographic projections, and uses actual census data from age-restricted communities constructed between 1980 and 2000. This analysis uses the multiplier for single-family detached age-restricted homes (1.57) and rounds up to 1.9, based on household statistics from Toll Brothers' age-restricted communities the northeastern US. Age-restricted communities are permitted by the Federal Housing for Older Persons Act (HOPA, 1995 and as amended) to limit residency to at least one person per unit who is 55 years of age or older, and to prohibit residents under 19 years of age from permanent residency. Fractional numbers are rounded in the total.

Table 2: PROPERTY TAX REVENUES

| | | | TOTAL x 118 Homes |
|--|---------|---------------------------------------|--|
| Average Market Value Per Condominium Unit*: | | \$393,404 | \$46,421,672 |
| x Town of Yorktown Assessment Ratio (2022) | | x 1.93% | |
| Average Assessed Value Per Home: (average market value per home x .0193 assessment rate) | | \$7,593 | \$895,938 |
| 2022 Tax Rates Per \$1,000 of Assessed Value: (Assessed Value ÷ 1000) x tax rate = annual tax paid per line item per home) | | AVERAGE ANNUAL TAXES PER HOME: | TOTAL ANNUAL TAX REVENUE - 118 Homes: |
| Town of Yorktown: | 167.73 | \$1,273 | \$150,272 |
| Town Special Districts: | | | |
| ALS Ambulance: | 5.47 | \$42 | \$4,901 |
| Lake Mohegan Fire District: | 68.04 | \$517 | \$60,957 |
| Yorktown Consol. Water District: | 14.81 | \$112 | \$13,266 |
| Westchester County Refuse: | 14.46 | \$110 | \$12,958 |
| Westchester Cty. Peekskill Sewer: | 32.74 | \$249 | \$29,332 |
| Westchester County: | 136.03 | \$1,033 | \$121,874 |
| SUB-TOTAL - TOWN & COUNTY TAXES: | | \$3,335 | \$393,560 |
| Yorktown Central School District: | 1001.15 | \$7,601 | \$896,969 |
| TOTAL ANNUAL TAXES PAID PER HOME: | | \$10,937 | |
| TOTAL ANNUAL PROPERTY TAX REVENUE - ALL HOMES: | | | \$1,290,529 |

According to the Yorktown Tax Assessor, the 2022 uniform percent of value (UPV) ratio is 1.93, so homes are assessed at approximately 1.93% of their market value. The projected sales price provided by Toll Brothers is \$862,995 per unit. An analysis by Cronin & Cronin Law Firm, PLLC, determined that the adjusted market value per unit is \$393,404, based on an income capitalization analysis for condominium units.

Tax Rates as reported from Westchester County and from the Town of Yorktown 2022 Budget Summary. Special districts are assumed to remain the same as those serving the existing Field Home property.

Table 3: TOWN & SPECIAL DISTRICT BUDGET IMPACTS

| | Annual Property Tax REVENUE | Annual Per Capita Public Cost | x Estimated Community Population | Total Annual Public COST: | Annual Net SURPLUS |
|--|-----------------------------|-------------------------------|----------------------------------|---------------------------|--------------------|
| Town of Yorktown & Special Districts: | \$271,685 | \$730 | 224 | (\$163,676) | \$108,010 |
| TOTAL MUNICIPAL NET SURPLUS REVENUE: | | | | | \$108,010 |
| AVERAGE Net Surplus Per New Home (Average of All 118 Homes): | | | | | \$915 |

Per Capita town costs calculated by dividing the total Tax Levy amount from the 2022 Town of Yorktown Budget Summary (\$32,164,970) by the number of residents in the town (36,569 people as of the 2020 US Census), then multiplying by .83 to factor out those costs incurred and paid for by commercial and industrial land uses/taxpayers. Approximately 17% of Yorktown property taxes are paid by nonresidential land uses. The cost of special district services is incorporated into this calculation. Analysis assumes no major capital improvements from this development.

Table 4: COUNTY BUDGET IMPACTS

| | Annual Property Tax REVENUE | Annual Per Capita Public Cost | x Future Community Population | Total Annual Public COST: | Annual Net SURPLUS |
|--|-----------------------------|-------------------------------|-------------------------------|---------------------------|--------------------|
| Westchester County: | \$121,874 | \$487 | 224 | (\$109,151) | \$12,724 |
| TOTAL COUNTY NET SURPLUS REVENUE: | | | | | \$12,724 |
| AVERAGE Net Surplus Per New Home (Average of All 118 Homes): | | | | | \$108 |

Per Capita cost calculated by dividing the total amount of operating expenditures to be raised by property taxes (25% of total expenditures) from the 2022 Westchester County Budget by the number of residents in the county (968,738 people as of the 2020 US Census), then multiplying by .85 to factor out those costs paid by commercial and industrial land uses/taxpayers. Approximately 15% of Westchester County property taxes are paid by nonresidential land uses.

Table 5: SCHOOL DISTRICT BUDGET IMPACTS

| | Property Tax REVENUE | Annual Per Pupil Cost | Public School Children | Total Annual Public COST: | Annual Net SURPLUS |
|--|-------------------------|--------------------------|---------------------------|------------------------------|-----------------------|
| K-12 Public Schools - Yorktown CSD | \$896,969 | \$25,108 | - | \$0 | \$896,969 |
| TOTAL SCHOOLS NET SURPLUS REVENUE: | | | | | \$896,969 |
| AVERAGE Net Surplus Per New Home (Average of All 118 Homes): | | | | | \$7,601 |

Per Pupil expenditures as reported by the NY State Education Dept. for the most recent school year.



**REAL ESTATE PROPERTY TAX
PROJECTION REPORT**

FIELD HOME
2300 Catherine Street
Cortlandt Manor

Prepared: May 2022
Tax Years: 2021/22

Prepared For:
Toll Brothers
50- A River Street
Sleepy Hollow, NY 10591

Prepared By:
Cronin & Cronin Law Firm, PLLC
200 Old Country Road, Suite 470
Mineola, New York 11501



CRONIN & CRONIN

LAW FIRM, PLLC

BRAD W. CRONIN

SEAN M. CRONIN *

CARA P. CRONIN †

RAYMOND J. FUREY ◇

* Member NY and CT Bars

† Member NY and NJ Bars

◇ Member NY and FL Bars

200 OLD COUNTRY ROAD · SUITE 470

MINEOLA, NY 11501-4263

TEL: 516-747-2220

FAX: 516-747-2240

WWW.CRONINTAXLAW.COM

INFO@CRONINTAXLAW.COM

May 17th, 2022

50-A River Street
Sleepy Hollow, NY 10591

Re: OUR FILE # 100-1534

Project: Field Home

2302 Catherine Street, Cortlandt Manor, NY 10567

TOWN OF YORKTOWN

PARCEL ID: 35.12-1-2 and 35.08-1-45

Dear Kevney,

As per your request, the following is a projection of the real estate taxes and a comparison to the actual taxes for the above-noted property.

The Town of Yorktown is required under the Real Property Tax Law to assess all properties based upon their physical condition on May 1 of each tax year with a valuation date of July 1 of the previous year. Accordingly, for purposes of this projection, we are estimating the value of the subject property as if it were fully constructed as of taxable status date.

All estimates are based on current New York State law and the facts as provided to our office. The real estate tax projection does not take into account any exemptions that the property may receive. If the physical plans change, the applicable law may also change and the estimate of real estate taxes will no longer be valid.

The courts have consistently ruled that the income approach is the preferred method for valuing commercial property in New York State. This is consistent with the mandates of Real Property Tax Law Section 581 which mandates this analysis for condominiums in this jurisdiction. Accordingly, we have performed an analysis based on upon hypothetical projected rentals as well as surrounding market data and have estimated the market value of the property.

We have enclosed charts illustrating the current taxes as well as the projected revenue relying upon our projected taxes that will be generated to the various taxing entities.

Should you require anything further, please do not hesitate to contact me.

Very truly yours,

Sean M. Cronin

SEAN M. CRONIN

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SECTION 1
Property & Assessment Information

Purpose, Use, and Scope of Report

The purpose of this report is to provide the client with basic property tax information as well as projection of taxes for the properties described below.

Property Description

Property Address: 2302 Catherine Street

Assessing Jurisdiction: Town of Yorktown

General Description: 118 Age-Restricted, 3-bedroom Master-Down Townhome Condominium Units. Each will be between 2,316-2,465 square feet.

Parcel Numbers: 35.12-1-2 and 35.08-1-45

Year Projected to be Built: 2023

Number of Units: 118

Land Area: approximately 50.51 acres

Critical Study Dates:

Study Prepared: May 2022

Tax Year under Analysis: 2023/24 (utilizing current tax rates)

Tax Cycle, Fiscal Periods & Payment Dates

Tax Year: Town: Yorktown

Fiscal Period: January 1st, 2023 through December 31st, 2023

Assessment Valuation Date: July 1st

Assessment Equalization Rate: 1.93 (2022)

Appeal Deadline: Application: June 21st, 2022 (4th Tuesday in June)
Petition: 30 days after the assessment roll is finalized
(Usually in September)

Tax Bill/Notices: Town: April 1st
School: September 1st

Number of Tax Bill Installments: Town: One
School: Two

Tax Bills Due: Town: Payable by April 30th without penalty
School: 1st Half, Payable by September 30th without penalty
2nd Half, Payable by January 31st without penalty

Reassessment Program

The Town of Yorktown does not engage in annual revaluations, and has not performed a town-wide revaluation of all the parcels in over fifty years. A subject sale at a price above the current assessment would not result in an increased assessment since both the New York Supreme Court and the U.S. Supreme Court have ruled that reassessing a property based upon a sale under these circumstances is selective reassessment in violation of the “Equal Protection Clause” of their respective Constitutions. The jurisdiction is able to increase your assessment based upon new construction, a physical change to the property, a change in zoning, or other similar change in use or condition.

Condominium Assessments

New York Real Property Tax Law (“RPTL”) §581 and New York Real Property Law (“RPL”) §339-y establishes rules regarding the governing of assessment of residential cooperative, condominiums and rental properties. The provisions of RPTL §581 provide a method for valuing property which significantly reduces the assessed value of condominiums and cooperatives. In 1985, the Real Property Tax Law was amended to read:

“The provisions of paragraph (a) of this subdivision shall not apply to such real property classified within:

- (i) on and after January first, nineteen hundred eighty-six, class one of section one thousand eight hundred two of this chapter; or
- (ii) on and after January first, nineteen hundred eighty-four, the homestead class of an approved assessing unit which has adopted the provisions of section one thousand nine hundred three of this chapter, or the homestead class of the portion outside an approved assessing unit of an eligible split school district which has adopted the provisions of section nineteen hundred three-a of this chapter...”

While the primary reliance is on the income approach to value, many of the variables related to the project have been reviewed. We have estimated the assessment for the property taking into consideration not only the income approach, but also the construction costs, selling prices and assessments of similar units as well as our experience with the Town and the Assessor.

SECTION 2
Assumptions & Disclaimer

Assumptions

The underlying assumptions relied upon to project the future real estate taxes for the above-noted property include, but are not limited to:

1. That the legal descriptions, parcel numbers, and financial information supplied by the client are accurate;
2. That the building square footage, including the breakdown of office and storage space, provided to our office by the client is accurate;
3. A market study of comparable rentals in the vicinity performed by our office;
4. It should be noted that the anticipated tax rate for each tax year will increase by approximately 2% to 5% for Town, County, School and Special District taxes. This takes into consideration the 2% tax cap. The tax cap can be overridden by local governments, exempts pension costs and applies only to municipal budgets, not to the tax rate;
5. That the property has 118 Age Restricted, 3-Bedroom Townhome Units;

Disclaimer

The foregoing represents our best opinion based upon the facts and figures given to us. Our opinion is not meant to be a legal representation and/or warranty. It represents our best estimate of what an assessment should be and not what an Assessor may arbitrarily choose to place on the subject property, which, of course, is subject to a tax certiorari proceeding.

Additional Assumptions for New Building:

The underlying assumptions relied upon to project the future real estate taxes for the above-noted property include, but are not limited to:

1. That each Condo Unit will be on its own tax lot;
2. That the existing Nursing Home Facility will be demolished. A new community will be built consisting of 118 Townhome Units;
3. A market study of comparable rentals in the vicinity performed by our office;
4. The projection is estimating the project “as if” complete;
5. That the laws governing the assessing of Real Property as they currently exist in New York State will be in effect when the construction is completed.

Additional Assumptions for Condo:

The underlying assumptions relied upon to project the future real estate taxes for the above-noted property include, but are not limited to:

1. That the condominium will be Age Restricted and consist of 118 units;
2. That all 118 units will include 3-Bedrooms, with the Master Bedroom on the First Floor;
3. That the lot will ultimately be re-apportioned into 118 lots that will share a common area. The Town of Yorktown will assign a separate tax lot designation to the common area but there will be no taxes due for this tax lot due the condominium structure;
4. That the average sale price of each unit will be \$862,995;
9. That the 2022/23 assessment ratio used in our analyses is subject to change annually, potentially resulting in a change of the full market value for these properties next year;
10. That this letter is being sent to you with the express understanding that our firm assumes no liability for the projections presented herein;

SECTION 3
Assessment Analysis & Tax Rate Increase

Assessment Analysis

In general, the courts in New York have held that for income producing property, the Income Capitalization Approach is the most trusted method of valuation. We therefore look to market, as well as the actual income and expenses, at a location and value the property by applying those figures in an Income Capitalization analysis. The Income Capitalization analysis is the foundation of the majority of our negotiations with the respective taxing jurisdictions for tax certiorari purposes.

While the Income Capitalization Approach is the trusted method of valuation, the courts have held that if there is a recent, arm's length, subject sale of the property that cannot be explained away as abnormal, the sale price is the best indication of value. The courts have put the most weight on the sale price as an indication of the market and held that the subject sale supersedes the Income Capitalization Approach in these circumstances. New York Courts have also found that there is often a business component that can inflate a sale price making the sale not reflective of the market for assessment purposes to some degree. So while a subject sale can be critical in our negotiations, there are many factors we will review to determine if the sale is reflective of the market or rather a more complicated business that should not dictate the real estate value.

Since the Town of Yorktown does not engage in annual revaluations and has no plans in the foreseeable future to perform a revaluation, absent a physical change to the property or in zoning, the assessment should remain stable and unchanged after it is established. The increase in your taxes over time would, therefore, be a result of a tax rate increase as indicated on the projections in this report.

Our assessment analysis is based upon the review of comparable properties in the area, the current market rent, the history of the practices and assessments for the subject property, as well as the rent provided to us in your Potential Acquisition report. According to our analysis, the current assessment for the properties appears to be "in line" with the market values. Unless there is significant physical change to the condition of the properties, the existing assessments will be carried forward for the subsequent years.

** Please see Exhibits 1 in Section 5 of the report for our Income Approach Analysis.

Tax Rate Increase

We analyzed the historical tax rate increase in the Town of Yorktown over the past five years. The anticipated tax rate for the 2022/23 and subsequent tax years could increase by approximately 2% to 5% for Town, County, School and Special District taxes.

Tax Cap: There is a 2% tax cap in New York State. The tax cap can be overridden by local governments, exempts pension costs, and applies only to municipal budgets- not to the tax rate.

Comparable Properties

The following three properties are located in the same area as the subject properties and were used in our Assessment Analysis:

Comp 1: Property Address: Glassbury Court: 2265 Dalton Drive
 Tax Map # 35.12-1-1.27-54
 Property Type: Condo
 Assessment: 7,100
 Full Market Value: \$334,905
 SF: 2,265
 Value per SF: \$148
 Taxes 21/22: \$8,074
 Taxes per SF: \$3.56

Comp 2: Property Address: Glassbury Court: 1806 Summerhill Ct
 Tax Map # 35.12-1-1.19-37
 Property Type: Condo
 Assessment: 6,800
 Full Market Value: \$320,754
 SF: 2,265
 Value per SF: \$142
 Taxes 21/22: \$7,733
 Taxes per SF: \$3.41

SECTION 4
Property Description & Tax Projection

PROPERTY ADDRESS

PROPERTY DESCRIPTION

C&C File # 100-1534
 Property Address: 2300 Catherine Street, Cortlandt Manor
 Assessing Jurisdiction: Town of Yorktown
 Tax Map #: 35.12-1-2 and 35.08-1-45
 Property Type: Condominiums
 Year Built: 2023
 Occupancy: 118 Units
 Building Square Footage
 Land Acreage: 50.51
 Current Assessment 21/22: 74;250
 Equalization Rate 22/23: 1.93
 Current Full Market Value 21/22: 3,502,357
 Current Taxes 21/22: \$721.80 *This property receives tax exemptions as a Nursing Home
 Current Tax Rate 21/22: 1,440.422

TAX PROJECTION

| Projected Tax Burden as Fully Constructed: | Year | Total Projected Assessed Value | Combined Tax Rate | Est Taxes | Est Taxes Per Unit |
|---|-------------|---------------------------------------|--------------------------|------------------|---------------------------|
| | 2023 | 895,939 | 1,440.422 | \$1,290,529.83 | \$10,936.69 |

| Portion | Total Projected Assessed Value | Current Tax Rate | Est Taxes | Est Per Unit |
|--------------------|---------------------------------------|-------------------------|------------------|---------------------|
| Town/County | 895,939 | 439.267740 | \$393,557.10 | \$3,335.23 |
| School | 895,939 | 1,001.154 | \$896,972.73 | \$7.601.46 |
| Total | 895,939 | 1,440.422 | \$1,290,529.83 | \$10,936.69 |

SECTION 5
INCOME APPROACH ANALYSIS

EXHIBIT 1

| | | | |
|------------------|-------------------|--------------------|-------------|
| FILE # | 100-1534 | LAND ACRES | 50.51 |
| TAX MAP # | 35.12-1-2 | LAND SQ.FT. | 2,200,215.6 |
| | 35.08-1-45 | | |
| ADDRESS | 2302 CATHERINE ST | | |

VALUATION DATE 2021/22
July 1st

TENANT/TYPE

| | | |
|--------|-------------|-------------|
| Condos | Units | 118 |
| | Rental Rate | \$4,500 |
| | Gross | \$6,372,000 |

TOTAL UNTIS 118

POTENTIAL GROSS INCOME \$6,372,000
VACANCY 5%

EFFECTIVE GROSS 6,053,400

EXPENSES 25%

NET OPERATING INCOME 4,540,050

CURRENT TAXES 184,806

TOTAL CAP RATE
INCLUDING TAX 9.78
FACTOR

FULL VALUE 46,421,718

EQUALIZATION RATE 0.0193

NEW AV 895,939

VALUE PER
UNIT 393,404



633 Rt. 211 East, Suite 4, Box 4
Middletown, NY 10941
Office: (845) 495-0123 • Fax: (866) 688-0836

October 20, 2022

Mr. Casey M. Devlin, P.E.
Vice President
Toll Brothers
42 Old Ridgebury Rd.
Danbury, CT 06810

Re: Wetland and watercourse update
Catherine Street Project
Town of Yorktown, Westchester County

Dear Mr. Devlin:

On September 28, 2022 the onsite wetlands and water course were verified by the town's wetland consultant. During that filed visit a previously unflagged area was flagged the area is shown on the existing conditions survey as wetland H and consists of 9 flags.

During the first week of October, The site was walked and verified by NYSDEP for watercourses by their agency. On October 7, 2022 our office then went and flagged as additional area that was requested by the NYSDEP walk through. That area is now shown on the exiting condition survey as WC- through WC-1 through WC-6. That area is regulated by NYCDEP but is not a town or federal wetland, and was not requested by the town's wetland consultant.

Please let me know if you have any questions.

Sincerely yours,

James A. Bates

James Bates, CPESC, CPSWQ
Managing Member
Ecological Analysis, LLC

Attachments:
Wetland Datasheets
USDA Soil Map with Hydric Soils Map
NYSDEC & NWI Wetland Map



633 Rt. 211 East, Suite 4, Box 4
Middletown, NY 10941
Office: (845) 495-0123 • Fax: (866) 688-0836

October 27, 2021

Mr. Casey M. Devlin, P.E.
Vice President
Toll Brothers
42 Old Ridgebury Rd.
Danbury, CT 06810

Re: Wetland Delineation report
Catherine Street Project
Town of Yorktown, Westchester County

Dear Mr. Devlin:

In October 2021 a wetland delineation was completed for the site located on Catherine Street in Yorktown NY as requested. This included a soils verification to validate if the soils on-site matched the existing soil maps. The property was walked, and a field investigation completed to determine if there were any areas on site that met either the Army Corp of Engineers (ACOE) or NYSDEC the definitions of regulated wetland areas.

Before conducting the field investigation, the available aerial, soils and wetland mapping were reviewed for the referenced property. This identifies if there are any mapped wetlands on the property, as well as any areas where we should verify whether or not the field conditions match the available mapping.

The field investigation was conducted in accordance to the 2012 Northcentral and Northeast Regional Supplement to the ACOE 1987 manual and the Town of Yorktown wetland code. The upland and wetland areas on the property were determined by observing plant species, hydrology and soil types and conditions in accordance with the agencies guideline. Data sheets were then filled out and the areas meeting the conditions set forth by the agencies were then flagged with pink "Wetland Delineation" flagging and numbered sequentially. Flags were hung on the property defining the edge of the regulated area and a field map sent so the surveyor could locate them.

Vegetation

The dominant vegetation in the wetland areas consists mostly of Phragmites, tear thumb, and cinnamon ferns with woody species of spicebush, witch hazel and red maple. These are mostly consistent with plants that are recognized as wetland plant species and their abundance passes the ACOE 50/20 rule thereby defining the area as having wetland vegetation. The plant species dominating other areas were mostly beech, sugar maple and black birch

Soils

Both the Putnam and Westchester County Soil Survey and the United States Department of Agriculture (USDA) online web soil survey were reviewed to verify if there were any potential hydric (wetland) soils on property.

The wetland areas are mostly mapped in the Putnam and Westchester County Soils report and the USDA web soil report as mostly Ridgebury complex. These soils are listed as somewhat poorly drained soils and can be hydric in nature.

The soil cores taken in the wetland areas during the field investigation were consistent with these types of soils and therefore should be considered wetland soils.

Upland (dryland) soils on the property are mostly Paxton fine sandy loam. These soils are characterized as being well drained. These do not maintain proper hydrology to be wetland soils as they dry out during the growing season.

Hydrology

As required by the 2012 ACOE regional supplement the hydrology of the property and the potential wetland areas were investigated.

The wetland areas flagged are saturated in the upper 12 inches. The hydrology for wetlands are from streams, and slope and road runoff.

Conclusions

The Wetlands appear to be regulated by the Army Corps of Engineers and the Town of Yorktown. For disturbance of the wetlands, a permit would be required from the ACOE and the Town of Yorktown.

Ecological Analysis is grateful for this opportunity to be of service on this project and looks forward to the opportunity to work with you in the future. Feel free to call if you have any questions or if we can be of further assistance.

Sincerely yours,

James A. Bates

James Bates, CPESC, CPSWQ
Managing Member
Ecological Analysis, LLC

Attachments:
Wetland Datasheets
USDA Soil Map with Hydric Soils Map
NYSDEC & NWI Wetland Map



**New York State
Parks, Recreation and
Historic Preservation**

KATHY HOCHUL
Governor

ERIK KULLESEID
Commissioner

October 28, 2022

Anthony Russo
President
Environmental Compliance
35 Roosevelt Avenue
Middletown, NY 10940

Re: SEQRA
Field Home - Active Adult Residential Development
2300 Catherine St, Cortlandt Manor, NY 10567
22PR07787

Dear Anthony Russo:

Thank you for requesting the comments of the Office of Parks, Recreation and Historic Preservation (OPRHP). We have reviewed the project in accordance with the New York State Historic Preservation Act of 1980 (Section 14.09 of the New York Parks, Recreation and Historic Preservation Law). These comments are those of the OPRHP and relate only to Historic/Cultural resources. They do not include potential environmental impacts to New York State Parkland that may be involved in or near your project. Such impacts must be considered as part of the environmental review of the project pursuant to the State Environmental Quality Review Act (New York Environmental Conservation Law Article 8) and its implementing regulations (6 NYCRR Part 617).

Based upon this review, it is the opinion of OPRHP that no properties, including archaeological and/or historic resources, listed in or eligible for the New York State and National Registers of Historic Places will be impacted by this project.

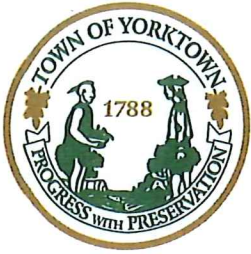
If further correspondence is required regarding this project, please be sure to refer to the OPRHP Project Review (PR) number noted above.

Sincerely,

R. Daniel Mackay

Deputy Commissioner for Historic Preservation
Division for Historic Preservation

rev: J. Betsworth



Yorktown Town Hall
363 Underhill Avenue, P.O. Box 703
Yorktown Heights, NY 10598

(914) 962-5722
www.yorktownny.org

Mr. Kevney D. Moses
Land Entitlement Manager
Toll Brothers
42 Old Ridgebury Road
Danbury, CT 06810

April 20, 2022

RE: Field Home Residential Project
Hunterbrook Sewer District
Sewer Capacity

Dear Mr. Moses:

Wastewater from the proposed townhouse project will be conveyed to the Town's Hunterbrook Pump Station (HBPS) through existing gravity sewers. The HBPS will pump wastewater from the proposed project to Westchester County Peekskill Sewage Treatment Plant.

Since the zoning, number of units, and projected sewage flows are unknown at this time, the capacity of the sewage disposal facilities will need to be reviewed when the requirements of the project are better defined. The sewer collection system that will connect the proposed project to the HBPS has adequate capacity based on the preliminary unit count. It is also anticipated the Peekskill treatment Plant will have adequate capacity to treat the wastewater generated by the proposed project.

The HBPS is having capacity issues during storm events due to inflow and infiltration (I&I). The ability to accept wastewater generated by the proposed project will be based on the projected sewage flows and the effectiveness of I&I remediation.

The Town is willing to serve the project provided that extraneous flows to the HBPS can be reduced sufficiently to keep the station within design capacity. Should you have any questions or require additional information, please call.

Sincerely

Daniel A. Ciarcia, P.E.
Town Engineer
DAC: mc
Matt Slater
John Tegeder, R.A.



November 29, 2022

RECEIVED
PLANNING DEPARTMENT

NOV 30 2022

TOWN OF YORKTOWN

Mr. John Tegeder
Director of Planning
Town of Yorktown
Albert A. Capellini Community and Cultural Center
1974 Commerce Street
Yorktown Heights, New York 10598

Re: Toll Brothers, Inc.
2300 Catherine Street
Yorktown, New York

Subj: Wetland Boundary Verification

File: 2478.001.001, Phase 15

Dear Mr. Tegeder and Members of the Planning Board:

Barton & Loguidice, D.P.C. (B&L) has completed a Wetland Boundary Verification for the proposed Tolls Brothers, Inc. project along Catherine Street. To date, B&L has received the following documents for review:

- Preliminary Grading Plan
- Toll Brothers WC Survey, dated Jan. 31, 2022
- Toll Brothers Catherine Street Project – Wetland Report, dated October 27, 2021
 - Including Wetland C Data Sheets, USDA Soil Report, NYSDEC & ACOE wetland Map

Project Description

A project is being proposed by Toll Brothers, Inc. (Applicant) on tax parcels 35.12-1-2 and 35.08-1-45. These parcels constitute approximately 41.35 acres. A wetland delineation was previously completed on the property during October 2021 by Ecological Analysis, LLC. The wetland delineation report has been submitted to the Town for boundary verification. B&L was tasked with reviewing and providing comment on the wetland delineation work, including completion of a field walkover to verify the resource boundaries.

Wetland Resource Review

A B&L Wetland Biologist visited the project site on September 28, 2022, to visually verify the delineated wetland boundaries shown on the submitted survey dated January 31, 2022, and more specifically detailed in the Wetland Report completed by Ecological Analysis. Kevney Moses, Land Entitlement Manager with Toll Brothers, and James Bates, Managing Member with Ecological Analysis, attended the field walkover on behalf of the project and Applicant.

The prior wetland delineation work resulted in the identification and flagging of a single wetland resource, identified as Wetland C on the survey and delineation support information. The limits of this freshwater wetland were confirmed during the site walkover and the boundaries were determined to be acceptable, as depicted on the site survey dated January 31, 2022. While walking west to east across the northern limits of the property, a second freshwater wetland location was identified. This resource was





flagged by the field team as Wetland H and the flag locations were later collected by the site surveyor and added to the site survey. A segment of delineated Wetland C was also extended during the site walkover. Six flags (WC 1 through WC 6) were added in the field between flags C 85 and C 86, based on site characteristics observed during the field walkover. A revised site survey was received by B&L and the Town that shows the Wetland H resource and the Wetland C extension, and a title block notation that indicates additional wetland flags were added on October 12, 2022. Wetland H and the extended Wetland C segment are correctly shown on the revised survey. Wetland C and Wetland H meet the definition of a Wetland/Freshwater Wetland, as defined in the Town's Chapter 178 – Freshwater Wetlands and Watercourse Protection Law. Pursuant to the aforementioned regulations, a 100-foot buffer is also regulated around the boundary of these wetlands, as measured horizontally from the wetland limits.

Three intermittent waterbodies were also documented on the property during the field walkover. Two of these linear features are labeled on the original site survey as "seasonal swale," while the third feature was observed east of Wetland C, bisecting the wetland polygon between flags C 45 and C 46. No surface flow was evident during the site walkover in October; however, field conditions indicated the presence of periodic flow, hence the intermittent flow regime characterization. In accordance with Chapter 178 – Freshwater Wetlands and Watercourse Protection Law of the Town of Yorktown, a Watercourse includes linear waters that have a definite channel with a bed or banks, and perennial or intermittent ("... though it need not flow continuously. It may sometimes be dry.") flow. These three linear features meet the definition of a Watercourse under Chapter 178, as was discussed by the field team during the field walkover. It is important to note that the three observed watercourses are hydrologically connected to other waters/wetlands; they either receive input from other resources and/or discharge into other resource locations. Pursuant to the Chapter 178 regulations, the buffer of watercourses includes all adjacent surfaces for 100 feet as measured from the bank of the watercourse, or the high-water mark, whichever is more.

The regulated buffer areas and locations of the watercourses should be added to the site survey and appropriately labeled. The locations of the three watercourses are sketched on the attached original site survey for reference.

In addition to B&L's wetland review on behalf of the Town, a jurisdictional review should be performed by the U.S. Army Corps of Engineers (USACE) and the New York City Department of Environmental Protection (NYCDEP) to determine whether or not impacts to the wetlands and/or watercourses would be jurisdictional to their individual agencies. State mapped wetland does not exist on or near the property; therefore, based on current state regulations, a review by the New York State Department of Environmental Conservation (NYSDEC) does not appear to be necessary.

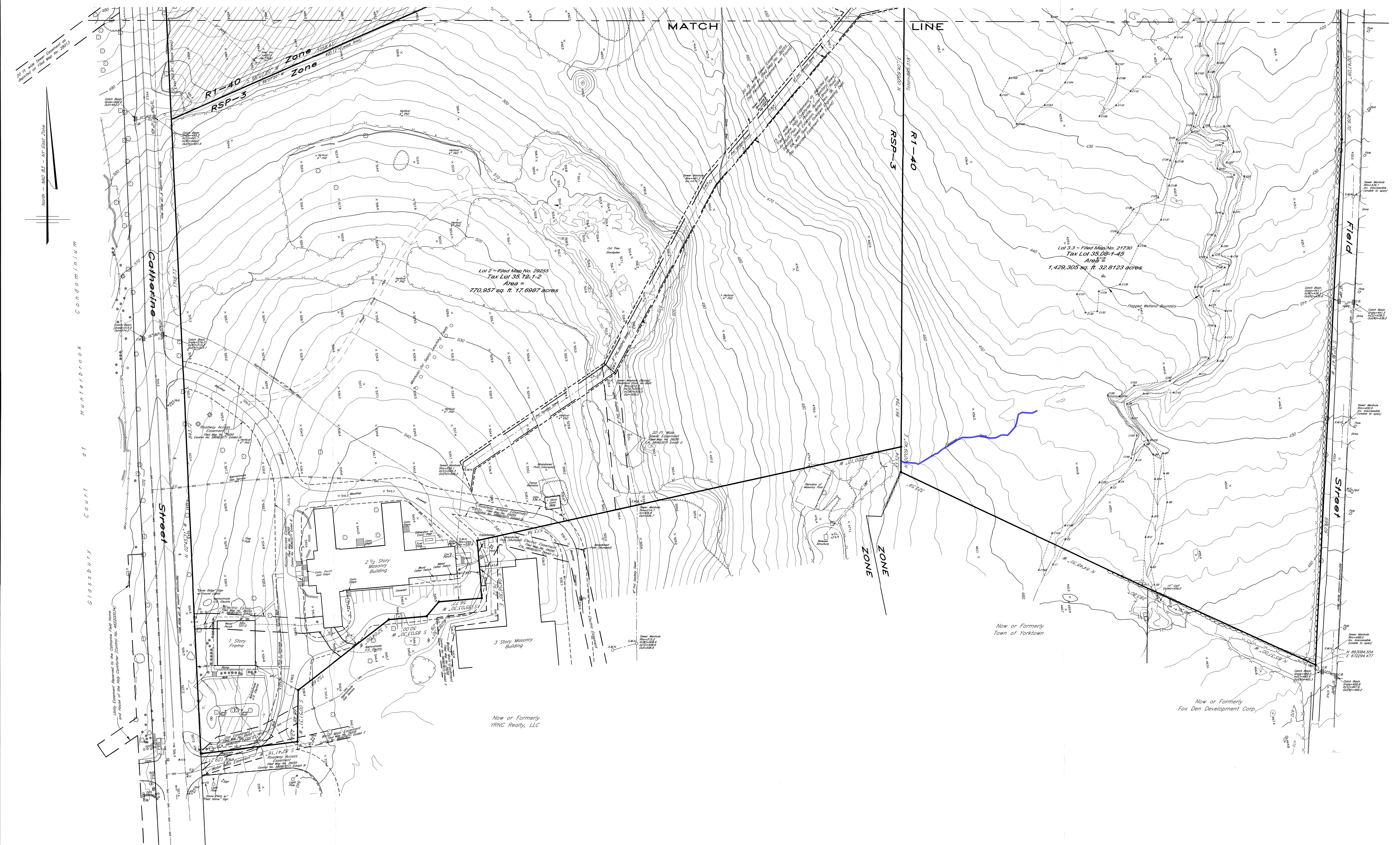
If you have any questions, please do not hesitate to contact me or Leigh Jones.

Sincerely,

BARTON & LOGUIDICE, D.P.C.

A handwritten signature in blue ink, appearing to read 'Johanna E. Duffy', is written over a light blue horizontal line.

Johanna E, Duffy, CWB®, PWS
Senior Managing Environmental Scientist



The subject property may be affected by assessments that are not depicted hereon. Unrecorded assessments for the surveying fees that through the property were not found by this office, nor do any appear in the title commitment provided to these surveyors.

Refer to Westchester County Clerk Filed Map Nos. 1665, 21730, 23851, 28013 & 29255.

Topographic information shown hereon compiled by photogrammetric methods with ground control provided by Ward Carpenter Engineers, Inc. (Vertical Datum: NAVD 83).

Subsurface structures and their encroachments, if any exist, are not depicted hereon or are shown approximately only. Underground utility locations are approximate only based on visible surface evidence and are not guaranteed as to their accuracy or completeness.

Unauthorised alterations or additions to a survey map is a violation of section 7209, sub-division 2, of the New York State Education Law.

This copies of the original survey, marked with the lead surveyor's inked or embossed seal shall be considered a true and valid copy.

Certifications indicated hereon signify that this survey was prepared in accordance with the building code of practice for Land Surveys adopted by the New York State Association of Professional Land Surveyors. Said certifications shall run to the person for whom the survey is prepared only and on no behalf to the Title Company, governmental agency and lending institution listed hereon, and to the assignees of the said institution. CERTIFICATIONS ARE NOT TRANSFERABLE TO ASSIGNEES, ASSOCIATES OR SUBSEQUENT OWNERS.

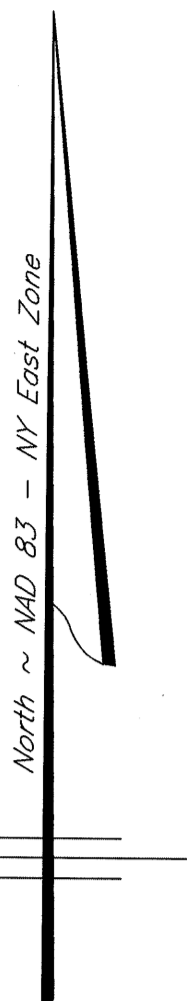
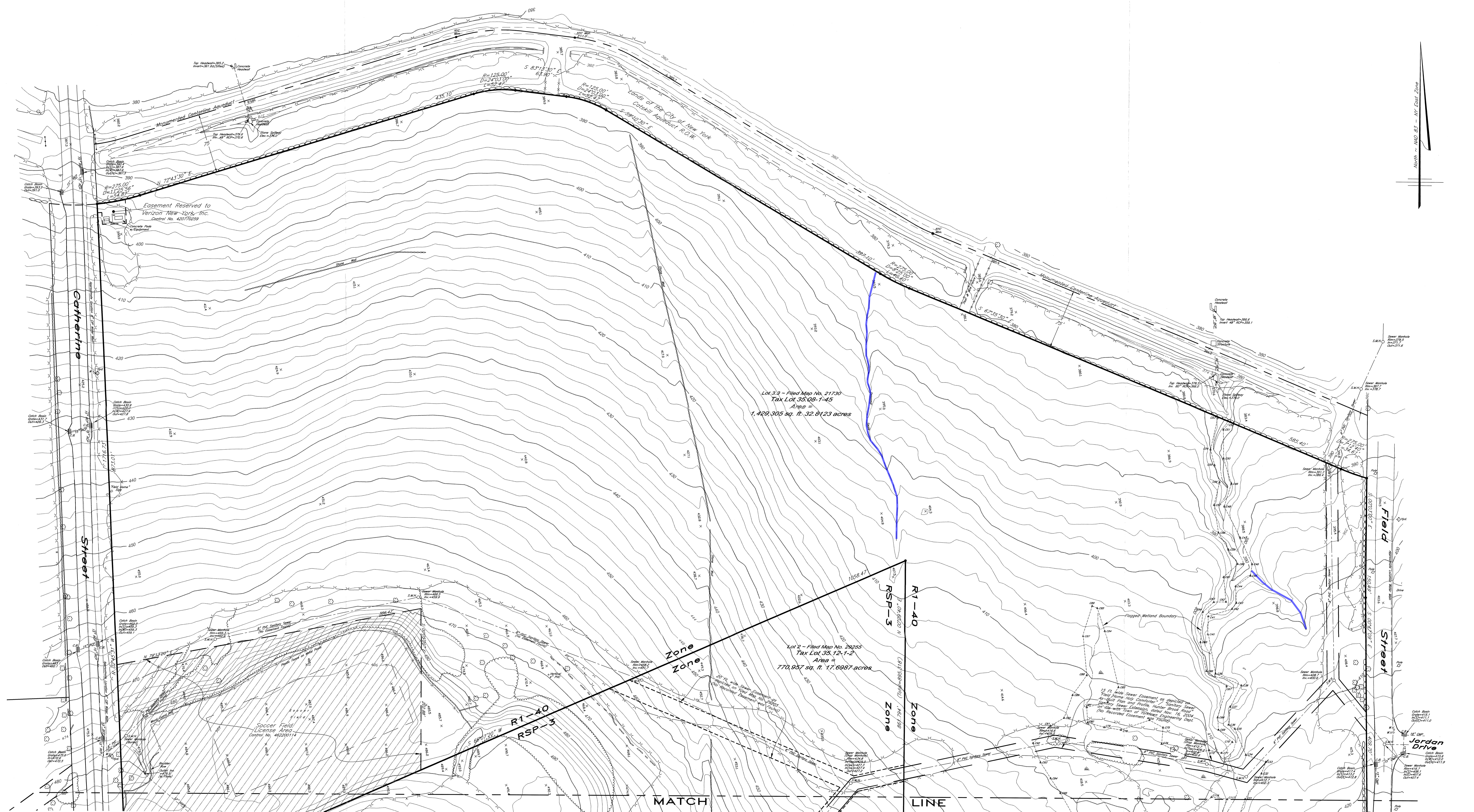
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Sheet 1 of 2
 Topographical
 Survey of Property
 prepared for
Toll Brothers, Inc.
 in the Town of
Yorktown
 Westchester County, N.Y.
 Scale 1"=40' Jan. 31, 2022

The premises being Lot 3.3 as shown on map entitled "Minor Subdivision Map prepared for the Field Home, Inc." dated Nov. 4, 1983, last revised June 9, 1984 and filed in the County Clerk's Office on Sept. 28, 1984 as Map No. 21730, along with Lot 2 as shown on map entitled "Sheet 2 of 2, Highway Access Easement, Lot Line Adjustment Map prepared for the Field Home, Inc." dated Oct. 9, 2015, last revised Aug. 10, 2016 and filed in the County Clerk's Office on Jan. 4, 2018 as Map No. 29255, and also being Lot 45, Block 1, Section 35.08 and Lot 2, Block 1, Section 35.12, respectively, on the official tax assessment maps of the Town of Yorktown.

Controlled by Westchester Abstract Company, Family National Title Insurance Company, Toll Bros., Inc., a Pennsylvania corporation; Toll Brothers V Corp, a Delaware corporation and Field Home-Hwy Center, a New York not-for-profit corporation.

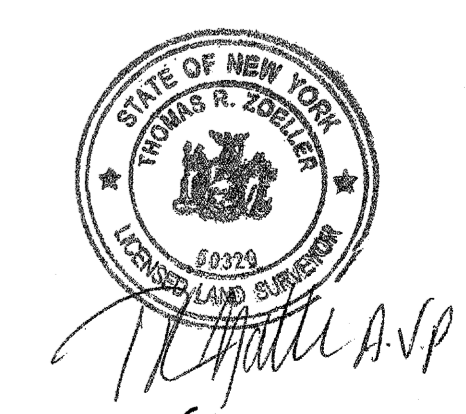




Sheet 2 of 2
 Topographical
 Survey of Property
 prepared for
Toil Brothers, Inc.
 in the Town of
Yorktown
 Westchester County, N.Y.
 Scale 1"=40' Jan. 31, 2022

The premises being Lot 3.3 as shown on map entitled "Minor Subdivision Map prepared for The Field Home, Inc.", dated Nov. 4, 1983, last revised June 9, 1984 and filed in the County Clerk's Office on Sept. 26, 1984 as Map No. 21730, along with Lot 2 as shown on map entitled "Sheet 3 of 3, Roadway Access Easement, Lot Line Adjustment Map prepared for The Field Home, Inc.", dated Oct. 3, 2015, last revised Aug. 10, 2018 and filed in the County Clerk's Office on Jan. 2, 2019 as Map No. 29255.
 Also being in 45, Block 4, Section 35.08 and Lot 2, Block 1, Section 35.12, respectively, on the official tax assessment maps of the Town of Yorktown.
 Certified to Westminster Abstract Company, Fidelity National Title Insurance Company, Toll Bros., Inc. a Pennsylvania corporation, Toll NorthEast Corp., a Delaware corporation, and Field Home-Holy Committes, a New York not-for-profit corporation.

The subject property may be affected by easements that are not depicted hereon. Recorded easements for the sanitary sewer lines through the property were not found by this office, nor do any appear in the title commitment provided to these surveyors.
 Refer to Westchester County Clerk Filed Map Nos. 1853, 21730, 23851, 28013 & 28255.
 Topographic information shown hereon compiled by photogrammetric methods with ground control provided by Ward Carpenter Engineers, Inc. (Vertical Datum: NAVD 83.)
 Subsurface structures and their encroachments, if any exist, are not depicted hereon or are shown approximate only. Underground utility locations are approximate only based on visible surface evidence and are not guaranteed as to their accuracy or completeness.
 Unauthorized alterations or additions to a survey map is a violation of section 7209, subdivision 2, of the New York State Education Law.
 This copies of the original survey marked with the land surveyor's inked or embossed seal shall be considered a true and valid copy.
 Certifications indicated hereon signify that this survey was prepared in accordance with the existing code of practice for Land Surveyors adopted by the New York State Association of Professional Land Surveyors. Said certifications shall run to the person for whom the survey is prepared only, and on his behalf to the Title Company, government agency and lending institution listed hereon, and to the assignees of the granting institution. CERTIFICATIONS ARE NOT BINDING ON ADDITIONAL INSTITUTIONS OR SUCCESSIVE OWNERS.
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Ward Carpenter Engineers, Inc.
 76 Monroeville Avenue
 White Plains, N.Y. 10601

Christopher Taormina, RA
Chairman

Matthew Slater
Town Supervisor

TOWN OF YORKTOWN

ADVISORY BOARD ON ARCHITECTURE & COMMUNITY APPEARANCE (ABACA)

Albert A. Capellini Community and Cultural Center, 1974 Commerce Street, Yorktown Heights, New York 10598, Phone (914) 962-6565

RECEIVED
PLANNING DEPARTMENT

DEC 9 2022

TOWN OF YORKTOWN

To: Diana Quast, Town Clerk *for the Town Board*
From: ABACA
Date: December 9, 2022
Subject: **Town Board Referral – Toll Brothers, Inc. – 2302 & 2448 Catherine Street**
Petition for zoning code and map amendment to rezone the property to the RSP-2 District to facilitate a 118-unit townhouse community development proposal on a 48.05-acre portion of the property.

Documents Submitted and Reviewed:

| Title: | Produced By: |
|---|-------------------------|
| Town Board Referral dated 11/28/2022 -Zarin & Steinmetz LLP letter dated 11/15/2022 with associated materials -Conceptual site plan | Diana Quast, Town Clerk |

The Advisory Board on Architecture and Community Appearance reviewed the above referenced subject at their meeting held on Tuesday, December 6, 2022. Joseph Riina, P.E. of Site Design Consultants was present. The Board has no objections to the proposed rezoning of the property and looks forward to seeing the project as it develops.

Christopher Taormina

Christopher Taormina, RA
Chairman

/nc

cc: Planning Department
Planning Board
Town Board *via Town Clerk*
Applicant

**670 East Main Street
Jefferson Valley**

November 30, 2022

Via: By Hand

Mr. Richard Fon
Planning Board Chairman
Town of Yorktown
1974 Commerce Street
Yorktown Heights, NY 10598

RECEIVED
PLANNING DEPARTMENT

NOV 30 2022

TOWN OF YORKTOWN

Re: Pre-Preliminary Application
670 East Main Street (Lot 16.08-1-34)
Town of Yorktown

Dear Mr. Fon:

On behalf of Yorktown 6N - Holding, LLC, enclosed please find a Pre-Preliminary Application for the proposed development at 670 East Main Street (Lot 16.08-1-34).

The applicant proposes to construct five two-story, three-bedroom townhouses with a 15-space parking lot on the 0.52-acre parcel in the R-3 zoning district. The construction would require the removal of an existing single-family residence and detached garage. There are no wetlands or watercourses on or adjacent to the site. Variances for setbacks and floor area ratio for the proposed structure would be required.

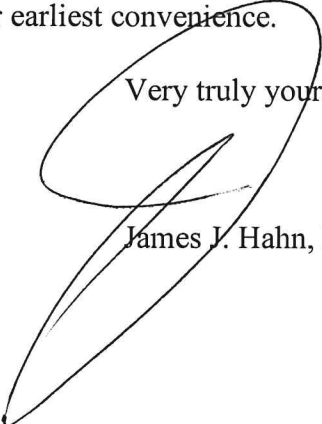
We request to be placed on the December 12, 2022 Planning Board meeting agenda to introduce this project. Included are the following attachments to support this application pursuant to the Town of Yorktown Planning Board's requirements.

- One (1) Pre-Preliminary Application.
- Three (3) full size and five (5) 11x17 Drawings prepared by James J. Hahn Engineering, PC:
 - "Conceptual Site Plan", Dated 11/28/22, Sheet C-1.
- Three (3) full size and five (5) 11x17 Drawings prepared by Steven Grgecic Architect, PLLC:
 - "Proposed Typical Floor Plans", Dated 11/22/22, Sheet A-1.
 - "Typical Elevation", Dated 11/22/22, Sheet A-2.
 - "Proposed Elevation", Dated 11/22/22, Sheet A-3.
 - "Proposed Plans", Dated 11/22/22, Sheet A-4.
- Eight (8) sets of renderings (2 sheets).
- One (1) check made out to the Town of Yorktown (\$100.00).

Richard Fon, Chairman
670 East Main Street
November 30, 2022
Page 2

Thank you for your assistance in this matter and if there are any questions concerning the above, please do not hesitate to contact me at your earliest convenience.

Very truly yours,



James J. Hahn, P.E.

JH:WA:ay

Enclosures

cc: John A. Tegeder (via e-mail w/enclosures)
Robyn A. Steinberg (via e-mail w/enclosures)
Nancy Calicchia (via e-mail w/enclosures)
Anthony Genovese (via e-mail w/enclosures)
Thomas Racek (via e-mail w/enclosures)
Steven Grgecic (via e-mail w/enclosures)

TOWN OF YORKTOWN PLANNING BOARD

Albert A. Capellini Community and Cultural Center, 1974 Commerce Street, Yorktown Heights, New York 10598, Phone (914) 962-6565, Fax (914) 962-3986

PRE-PRELIMINARY APPLICATION

Date 11/29/22

1. Tax Map Designation: Section 16.08 Block 1 Lot 34

2. Zone: R-3 Acreage: 0.5238

3. Type of Development: Site Plan Subdivision

4. If subdividing, how many total lots are proposed? n/a

5. A brief description of the proposed development:

Remove existing single family house and detached garage and build five two-story, three-bedroom townhouses with a 15 space parking lot.

RECEIVED
PLANNING DEPARTMENT

NOV 30 2022

TOWN OF YORKTOWN

6. Applicant:

Name Anthony Genovese
Firm Yorktown 6N - Holding, LLC
Address 670 East Main St
Jefferson Valley, NY 10535
Phone 917-704-7847
Fax n/a
Email anthony@westchestersitework.com

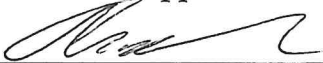
7. Owner of Record:

Name Yorktown 6N - Holding, LLC
Address 670 East Main St
Jefferson Valley, NY 10535
Phone 917-704-7847
Fax n/a
Email anthony@westchestersitework.com

8. Designated contact person for this application:

Name William Angiolillo, P.E.
Fax # 845-279-8909
Email wangiolillo@hahn-eng.com

Applicant



SIGNATURE

Anthony Genovese

PRINT NAME

11/29/22

DATE

Owner of Record



SIGNATURE

Anthony Genovese, Yorktown 6N - Holding, LLC

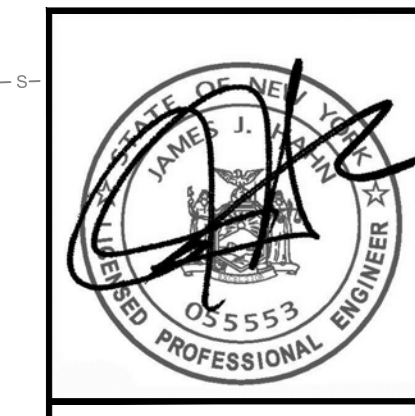
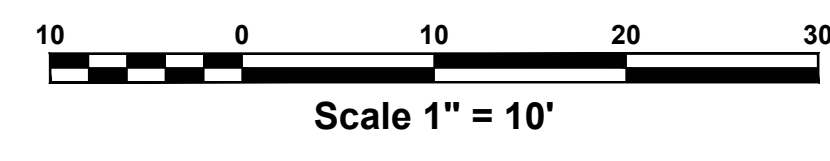
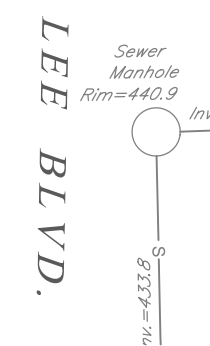
PRINT NAME

11/29/22

DATE

Note: By signing this document the owner of the subject property grants permission for Town Officials to enter the property for the purpose of reviewing this application.

| ZONING TABULATIONS (R-3 Zone) | | | |
|-------------------------------|---------------------|-----------------------------|-----------------------|
| | Required/Allowed | Provided | Variance Req'd. |
| Lot Area (min.) | 3,630 sf | 22,815 sf (0.52 ac) | |
| Floor Area Ratio (max.) | 0.23 | 7,824 sf / 22,815 sf = 0.34 | Yes |
| Lot Width (min.) | - | - | |
| Lot Depth (min.) | 150' | 116.4' | Exist. Non-Conforming |
| Front Yard (min.) | 50' | 15'-9" | Yes |
| Side Yard (min.) | 50' / 100' | 21'-9" / 152'-5" | Yes |
| Rear Yard (min.) | 50' | 15'-3" | Yes |
| Building Length | 180' max. | 102'-11" | |
| Building Separation | 90' min. | 69'-10" | Yes |
| Parking Setback | 5' min. | 5'-0" | |
| Max. Building Height | 40' | <40' | |
| Max. Building Coverage | 20% (4,563 sf) | 17.1% (3,912 sf) | |
| Off-street Parking (min.) | 1.5/unit (8 spaces) | 15 spaces | |



| REV. | DATE | DESCRIPTION |
|------|------|-------------|
| | | |
| | | |
| | | |

TITLE
PROJECT

CONCEPTUAL SITE PLAN
PROPOSED MULTI-FAMILY RESIDENCE
at
670 EAST MAIN STREET

T.M. #16.08-1-34
TOWN OF YORKTOWN, WESTCHESTER COUNTY, NEW YORK

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO THIS DRAWING IS A VIOLATION OF SECTION 7204 (2) OF THE NEW YORK STATE EDUCATION LAW. THIS PLAN IS NULL AND VOID FOR CONSTRUCTION PURPOSES WITHOUT THE SIGNATURE AND SEAL OF THE DESIGN ENGINEER.

JAMES J. HAHN
ENGINEERING, P.C.

Putnam Business Park
1689 Route 22
Brewster, New York 10509
Tel: (845) 279-2220

SCALE: 1" = 10'
DATE: 11/28/22
DRAWING NO.: C-1
SHEET NO.: 1 OF 1

P:\Documents\31101-4701-Main St-Work\external\conceptual\2022081.dwg 11/28/2022 8:17:51 AM

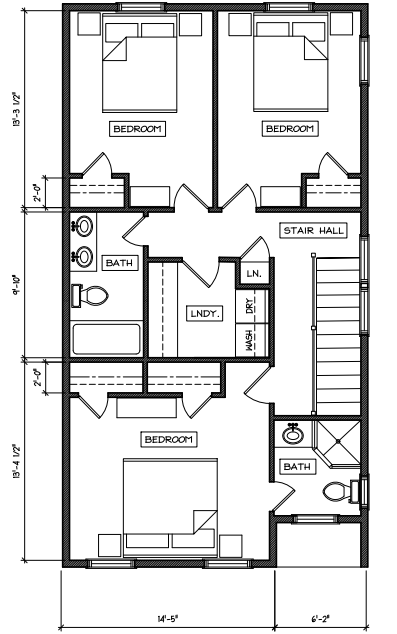
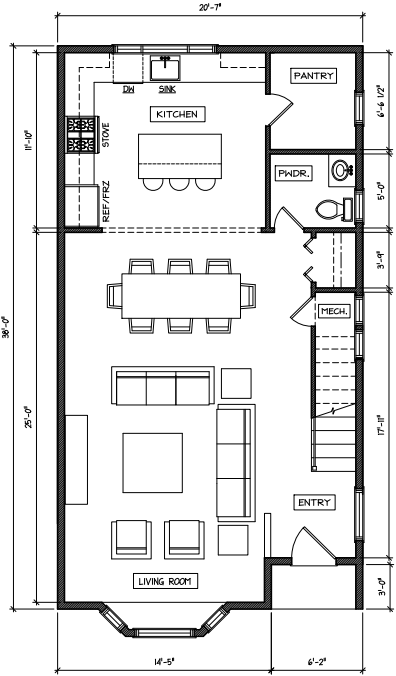
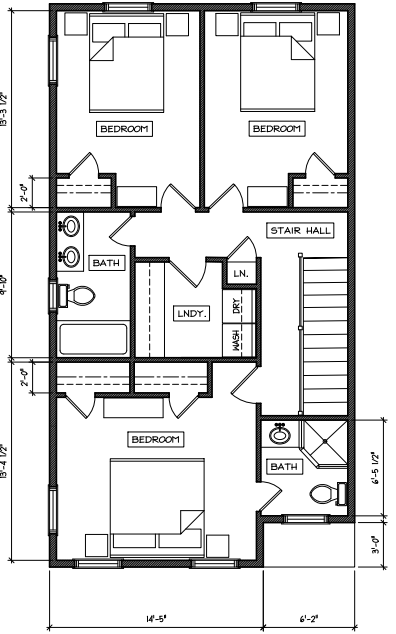
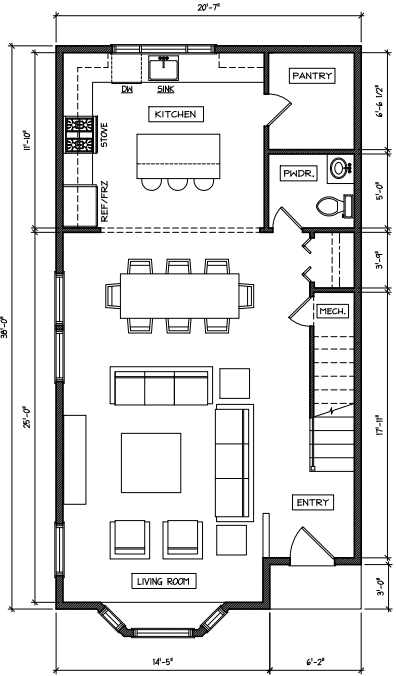


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STEVEN A. GRGECIC
NYS LIC. NO. 035297



1 PROPOSED LEFT SIDE 1ST FLOOR PLAN
1/4" = 1'-0"

2 PROPOSED LEFT SIDE 2ND FLOOR PLAN
1/4" = 1'-0"

3 PROPOSED RIGHT SIDE 1ST FLOOR PLAN
1/4" = 1'-0"

4 PROPOSED RIGHT SIDE 2ND FLOOR PLAN
1/4" = 1'-0"

| NO. | DATE | REVISION |
|-----|------|----------|
| | | |

PROJECT NAME
670 MAIN STREET
5 UNIT TOWNHOUSE

BUILDING ADDRESS
670 MAIN STREET
YORKTOWN, NY

PROJECT NUMBER

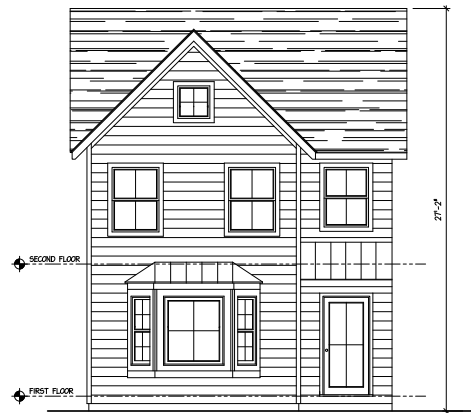
DRAWING TITLE
PROPOSED TYPICAL FLOOR PLANS

DRAWN BY
SG

SCALE
AS NOTED

DATE
11/22/22

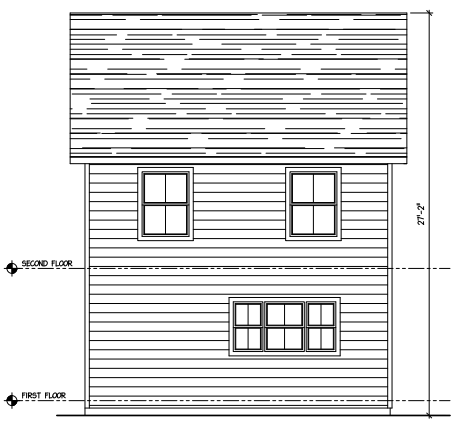
A-1



① PROPOSED FRONT ELEVATION
1/4" = 1'-0"



② PROPOSED LEFT SIDE ELEVATION
1/4" = 1'-0"



③ PROPOSED REAR ELEVATION
1/4" = 1'-0"



④ PROPOSED RIGHT SIDE ELEVATION
1/4" = 1'-0"



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STEVEN A. GRGECIC
NYS LIC. NO. 035297

| NO. | DATE | REVISION |
|-----|------|----------|
| | | |

PROJECT NAME
670 MAIN STEET
5 UNIT TOWNHOUSE

BUILDING ADDRESS
670 MAIN STREET
YORKTOWN, NY

PROJECT NUMBER

DRAWING TITLE
TYPICAL ELEVATION

| | |
|-------------------|-----|
| DRAWN BY SG | A-2 |
| SCALE AS NOTED | |
| DATE 11/22/22 | |
| | |



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STEVEN A. GRGECIC
NYS LIC. NO. 085297

| NO. | DATE | REVISION |
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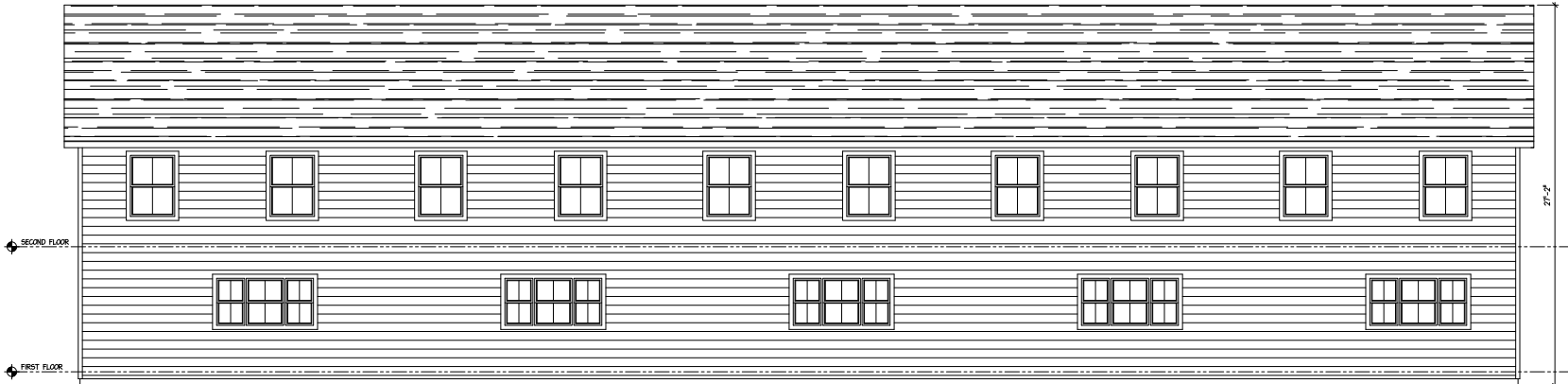
| | |
|------------------|-----------------------|
| PROJECT NAME | 670 MAIN STEET |
| | 5 UNIT TOWNHOUSE |
| BUILDING ADDRESS | 670 MAIN STREET |
| | YORKTOWN, NY |
| PROJECT NUMBER | |

DRAWING TITLE
PROPOSED ELEVATIONS

| | | |
|----------|----------|------------|
| DRAWN BY | SG | A-3 |
| SCALE | AS NOTED | |
| DATE | 11/22/22 | |
| | | |

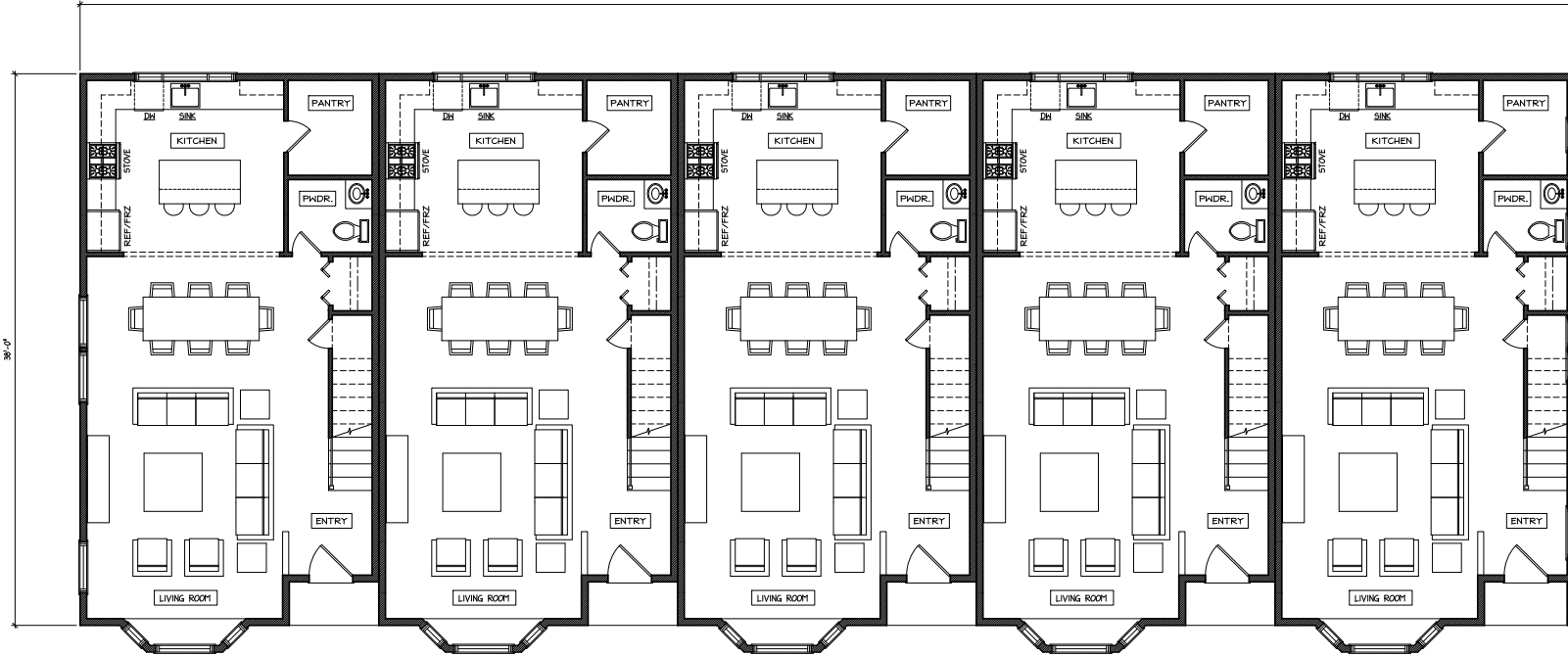


① PROPOSED FRONT ELEVATION
1/4" = 1'-0"



② PROPOSED REAR ELEVATION
1/4" = 1'-0"

109'-0"



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STEVEN A. GRGECIC
NYS LIC. NO. 035297

| NO. | DATE | REVISION |
|-----|------|----------|
| | | |

PROJECT NAME
670 MAIN STEET
5 UNIT TOWNHOUSE

BUILDING ADDRESS
670 MAIN STREET
YORKTOWN, NY

PROJECT NUMBER

DRAWING TITLE
PROPOSED PLANS

DRAWN BY
SG

SCALE
AS NOTED

DATE
11/22/22

A-4



670 East Main Street
Yorktown, NY



670 East Main Street
Yorktown, NY