

VILLAGE OF WAPPINGERS FALLS
Offices of Planning/Zoning
2582 South Avenue Wappingers Falls, NY 12590
(845) 297-5277 Fax: (845) 296-0379

AGENDA OF THE PLANNING BOARD

April 6, 2023

The Planning Board of the Village of Wappingers Falls will hold a meeting at the American Legion Hall, 7 Spring Street, Wappingers Falls, on April 6, 2023, beginning at 7 p.m. There are no public hearings scheduled for this meeting.

The agenda is as follows:

ROLL CALL

APPROVAL OF MARCH 2, 2023 MINUTES

CONTINUED APPLICATIONS

DUTCHESS AVENUE

Dutchess Avenue (Grid #6158-17-198119) – Terra Group 201 LLC (Owner and Applicant) – Christopher Lapine, P.E., LEED AP, LaBella Associates (Engineer) - Site Plan.

This property is located in the Village Residential (VR) zoning district. The applicant is proposing to construct a three-story, eight-unit, multi-family development.

INFORMAL DISCUSSION

BUCKINGHAM

Nelson Avenue (Grid #6158-13-071325) – Dan F. Leary, Esq., Berlandi Nussbaum & Reitzas LLP (Attorney) – Eric M. Schlobohm, PE, Sr. Associate, and Richard D. Williams Jr., PE, Insite Engineering, Surveying & Landscape Architecture, P.C. (Engineers)

The property is located in the Residential Mixed Use (RMU) zoning district. The applicant is proposing 188-units in a mixed residential housing complex consisting of townhomes and apartment buildings.

March 15, 2023

Chairman Tom Morris
Village of Wappingers Falls
Planning Board
2582 South Avenue
Wappingers Falls, NY 12590

Re: Dutchess Ave and Garden St, 2nd Review
Tax ID#: 135601-6158-17-198119
JRFA Job #06120219

Dear Mr. Morris:

The Applicant of the above-referenced project, Terra Group 201, LLC, is in receipt of comments issued for consideration by the following agencies in response to their site plan application originally dated December 7, 2022 and revised on March 15th, 2023. The site plan drawings have been amended in response to these comments. Below is a point-by-point response to each of the comments received.

- ***Village of Wappingers Falls Four Corners Planning comments dated March 1, 2023***
- ***Village of Wappingers Falls Fire Department comments dated March 1, 2023***
- ***Village of Wappingers Falls Planning Board J. Robert Folchetti & Associates comments dated March 1, 2023***
- ***Village of Wappingers Falls Office of Building, Planning & Zoning comments dated February 27, 2023***

VILLAGE OF WAPPINGERS FALLS FOUR CORNERS PLANNING COMMENTS, DATED MARCH 1, 2023:

1. *Proposed Project. The applicant proposes to construct a three-story, eight-unit multifamily dwelling on a ± 0.45-acre vacant flag lot located on Dutchess Avenue in the Village Residential (VR) District. The building will include eight dwelling units, consisting of six 2-bedroom units and two 1-bedroom units, on two upper floors, each floor 3,942 square feet in size, with a first floor parking garage containing 7 parking spaces and 5 spaces located in an outdoor parking lot. Access will be provided from an existing access easement and driveway from Dutchess Avenue. The project will connect to municipal water and sewer services. The project requires Site Plan approval from the Planning Board.*

Response: This is understood.

2. *SEQR. The proposed project is an Unlisted action under SEQR. Involved agencies include the Village of Wappingers Board of Trustees for connection to municipal sewer service and potentially a construction easement; Village Water Board for water service; Dutchess County Department of Behavioral and Community Health for approval of the water supply and sewer connections. We*



have prepared a resolution classifying the action as Unlisted for the Planning Board's convenience. The following revisions should be made to the Part 1 EAF before the Planning Board adopts the resolution:

- (a) *The description of the action in Section A states that the parcel is 0.45 acres in size, and approximately 0.51 acres of ground disturbance is proposed. The description should clarify the area of ground disturbance on the subject parcel and on the adjacent parcel where improvements to the driveway are proposed.*

We will provide additional comments on the Environmental Assessment portion of the Full EAF once the applicant has submitted additional material and the Planning Board has endorsed a sketch plan.

Response: The EAF has been revised to give the area of disturbance off site vs onsite.

3. *Area and bulk requirements.*

- (a) *The applicant proposes 57 percent lot coverage, where a maximum of 60 percent is permitted. The parking lot and access drive are proposed to be porous asphalt, and are therefore not included in the definition or calculation of "lot coverage." Porous asphalt must be maintained to ensure that it remains porous. The applicant should discuss the type of porous asphalt that is proposed, the maintenance requirements, and the legal means to ensure the pavement is maintained.*
- (b) *The Bulk Table on Sheet C130 should be revised to indicate the maximum number of stories that are proposed.*
- (c) *The Uniform Fire and Building Code may require a larger side yard setback than 1'9".*

Response:

a.) The porous asphalt was considered impervious for the lot coverage calculations to match the NYS DEC classification.

b.) The maximum number of stories has been added to sheet C130

c.) We have reviewed this and determined that, since the setback is less than 5', the exterior wall material will need to meet fire-resistant standards. This will be reflected in plans prepared by others.

4. *Construction Easement. There does not appear to be sufficient room to construct the building so close to the adjacent parcels to the south; construction easements may be needed.*

Response: Construction will be performed working from the inside working out. A construction sequence has been provided on sheet C150 that illustrates how this will be done. No construction easements are planned to be need for this project.



5. *Dwelling Unit Size and Floor Plans. The definition of “dwelling unit” in § 151-61 of the Zoning Law states that a dwelling unit “shall be not less than 500 square feet of habitable area.” The definition of “habitable area” states that “maintenance or utility space, parking garages and similar areas are not considered habitable space.” The applicant should provide floor plans demonstrating that the proposed dwelling units will meet this requirement. Floor plans should also be provided so the Building Department can determine whether the building is ADA compliant.*

Response: Floors plans will be provided by the project architect at a later date.

6. Landscaping.

(a) Sections 151-24I(1) and (2) of the Zoning Law require that buffer plantings be installed between the parking lot and adjacent properties, and between the parking lot and the street. Buffer planting is defined as “an area intended to provide an effective year-round visual barrier between different land uses and to protect against noises, odor, dust, flare and unsightly storage.” The “Miss Kim” Lilac proposed for the buffer between the properties to the north and west is a very slow growing deciduous shrub that will reach a height of 4 feet to 7 feet. It will not provide a year-round visual barrier.

(b) A landscape maintenance note should be added to Sheet C180 stating, “The owner of record shall maintain all landscaping as shown on the Site Plan throughout the duration of the use.”

Response:

a.) The landscape plan has been revised to incorporate evergreen species along the face of the wall.

b.) This note has been added to the Landscape Plan

7. Electric Vehicle Charging Station. We recommend that a minimum of one parking space include a Level 1 or Level 2 electric vehicle charging station. By 2025 it is predicted that electric vehicles will account for 10% of all vehicles on the road, and by 2035 they will account for 25% of all new vehicle sales. Residents of the proposed multifamily development will need on-site charging facilities for electric vehicles.

Response: As was discussed at the March 2nd planning board meeting, we have shown an outlet on the exterior of the building for electric vehicles to use for charging. The conduit for a charging station is also shown. If in the future a preferable charging station is found.

8. Snow storage. Area(s) for snow storage should be shown on the Site Plan.

Response: These were labeled in the previous submission. They have been revised for clarity.

9. Building Elevations. The applicant should submit building elevations so the Planning Board can determine whether the project is consistent with the character of the VR District.

Response: This will be provided by the project architect at a later date.



10. Materials and Colors. Samples of proposed building materials and colors should be provided for review by the Planning Board.

Response: This will be provided by the project architect at a later date.

11. Retaining Walls. The design of all proposed retaining walls should be submitted for review.

Response: This will be provided by the project structural engineer at a later date.

12. ADA Compliance. The Code Enforcement Officer should review the plans to determine whether the project is ADA compliant.

Response: This is understood.

13. Outdoor Lighting. Manufacturers cut sheets of all proposed outdoor lighting fixtures should be provided.

Response: This will be provided at a later date.

14. Easements. Copies of the driveway easement and sewer easement should be submitted for review.

Response: We have submitted documents to the village planning board attorney for review and are awaiting her response.

15. Recreation Fee. Payment of the recreation fee for eight (8) new dwelling units is required.

Response: This will be provided prior to planning board approval.

16. Public Hearing. A public hearing on the Site Plan, if deemed necessary by the Planning Board, shall be held within 62 days following the receipt of a complete application.

Response: This is understood.

VILLAGE OF WAPPINGERS FALLS J. ROBERT FOLCHETTI & ASSOCIATES COMMENTS, DATED MARCH 1, 2023:

Engineer Review:

1. The entrance driveway is currently depicted at 20 feet wide. It should be revised to reflect 24 foot wide. The 24-foot driveway should be extended to Dutchess Avenue.

Response: We met with the village fire chief on March 6th. From that meeting it was agreed that the driveway would be widened to 24' up to the fire truck turnaround and that the remainder would stay 20'



2. The retaining walls along the parking area should be extended a minimum of 42 inches above the finished parking grade.

Response: The plan shows the wall to extend 36" above the parking lot with a 36" privacy fence above. This exceeds the typical height of a guard rail and keeps the fence height under the 6' maximum allowed by the village code.

3. Proposed turn-around area for a fire truck will require approval from the Village of Wappingers Falls Fire Department.

Response: Comment noted.

4. Proposed potable water and sewer use flows should be provided on the plans.

Response: This has been added to sheet C160

5. Outdoor lighting plans should be provided demonstrating that the proposed lighting meets the requirements of Village Code Section 151-12.

Response: This will be provided at a later date.

6. Construction of the building foundation and retaining walls are proposed in close to multiple property lines. Retaining wall and building footings may potentially exceed the property limits. An engineering plan demonstrating how the building foundation and retaining walls will be installed without disturbing the neighboring properties should be provided. Engineering plans should include a discussion of construction easements required from neighboring properties. Proof that the neighboring properties are agreeable to construction easements should be provided.

Response: No construction easements are proposed for this project. Site improvements will be construction from the interior to prevent disturbance to adjacent properties. A construction sequence has been provided on sheet C150 that provides the method of construction.

7. The village property adjacent to the proposed building has a NYSDEC Land Fill on it. All measures to ensure that no disturbance to that parcel should be taken. A disturbance bond may be required for work in close proximity to the adjacent Village property.

Response: Prior to construction, the property line will be staked and construction fencing will be installed to ensure there is no disturbance to the Landfill site. During excavation of the foundation, stabilization measures will be deployed to prevent disturbance. Design of this measure will be provided by the project structural engineer.

8. Provide an estimated project construction schedule.

Response: A construction sequence has been provided on sheet C150 that provides the method of construction.



9. Applicant should provide proposed building architectural plans including elevations and floor plans and additional specifications for materials and colors for review.

Response: This will be provided by the project Architect at a later date.

10. Applicant should provide guide rail along driveway at proposed 1 in 2 fill slope.

Response: This has been added to the plans.

11. Design plans signed and sealed by a NYS licensed engineer required for retaining walls over four feet in height should be provided.

Response: This will be provided by the project structural engineer at a later date.

12. Details should be provided for proposed porous asphalt parking and drive.

Response: These were provided in the last submission. This is provided on sheet C530

13. A level spreader should be provided at the discharge location of the stormwater conveyance.

Response: This has been added to the plans.

14. Soil testing for the proposed stormwater infrastructure should be provided.

Response: We will schedule this prior to the next planning board meeting.

VILLAGE OF WAPPINGERS FALLS OFFICE OF BUILDING, PLANNING & ZONING COMMENTS, DATED FEBRUARY 27, 2023:

1. Applicant revised site plan to remove the need for the previously required area variance.

Response: Comment noted.

2. How will the building comply with the table BC602 of NYSBC fire separation exterior walls?

Response: This will be provided by the project structural engineer/Architect at a later date.

3. Knox box is required. Show location with architectural drawings.

Response: This will be provided by the project Architect at a later date.

4. Foundation detail needed.

Response: This will be provided by the project structural engineer at a later date.



VILLAGE OF WAPPINGERS FALLS FIRE DEPARTMENT COMMENTS, DATED MARCH 1, 2023:

1. The driveway to access the project is currently planned for 20' wide. This would need to be at a minimum of 24' wide to provide sufficient access for our fire equipment to access the site for fire protection.

Response: We met with the village fire chief on March 6th. From that meeting it was agreed that the driveway would be widened to 24' up to the fire truck turnaround and that the remainder would stay 20'

2. Additionally, the fire hydrant location on the plans currently is proposed in a location slated for snow storage in the event of a snow event. This would seriously hinder our ability to have access to a suitable water source. I would like this hydrant moved to a more accessible location.

Response: We have relocated the hydrant to be adjacent to the proposed fire truck turnaround. Bollards have also been added to for the protection of this hydrant.

Please find the attached revised Engineering Plan Set and support documents listed below. If you should have any questions or comments during your review of the submitted documents, feel free to reach out to me directly at (845) 486-1525.

Sincerely,

Thomas Kerrigan, P.E.
Civil Engineer

Encl: Amended Site Plan Set, last revised 3/13/23 (10 full-size copies)
A copy of the survey prepared by Rowan Land Surveying Dated October 24, 2022 (10 full-size copies)
Short Environmental Assessment Form Part 1 with Figures and Attachments dated December 7, 2022,
last revised March 9th, 2023; (10 full-size copies)

cc: Applicant
File

Terra Group 201 LLC
Dutchess Ave. & Garden St.

Village of Wappingers Falls
Dutchess County, New York



Issued: December 7, 2022

Revised: March 15, 2023

Prepared for:
Terra Group 201 LLC
395 Route 212
Saugerties, NY 12477

Prepared by:
LaBella Associates
21 Fox Street Suite 201
Poughkeepsie, NY 12601
845-486-1541

LaBella Project No. 2230010

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FULL ENVIRONMENTAL ASSESSMENT FORM, PART 1

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- Figure 8: Scenic Resources Map

ATTACHMENTS

- Attachment A - United States Fish and Wildlife Service (USFWS) Informal Species List
- Site Plan Set will be submitted separately

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1.0 PROJECT DESCRIPTION

1.1 Introduction

Terra Group 201 LLC is seeking site plan approval from the Village of Wappingers Falls Planning Board, to develop a three-story (with full basement below), eight-unit, 10,128 gross square foot (gsf) multifamily development, on a 0.45-acre parcel (Tax Lot 198119), in the Village of Wappingers, Dutchess County, New York. The basement will have a footprint of 2,110 sf, the first floor will have a footprint of 2426.5, and the second and third floor will be 2,795.8 sf each. The proposed multifamily residential units will consist of eight, two-bedroom units. A total of 10 parking spaces are proposed. There is an existing access easement for the driveway on tax lot 197127 and an existing sewer easement on tax lots 197127 and 191142.

The project site is located at the intersection of Dutchess Avenue and Garden Street and municipal water and sewer is available to the site. Access will be provided from the existing access easement and existing driveway off of the Dutchess Avenue and Garden Street intersection. The Applicant seeks to widen the gravel driveway to accommodate fire truck access onto the project site.

The project site is located within the Village Residential (VR) zoning district, where multifamily dwellings are a permitted use in the VR zone pursuant to site plan review. Approximately 0.51 acre of ground disturbance is proposed; of the total 0.51 acres of ground disturbance, 0.35 acres is proposed on site and 0.16 acres is proposed off-site.

1.2 Approvals, Consultations and Referrals

The following approvals are required for the implementation of the proposed project:

1. Village of Wappingers Falls Village Board – Sewer connection approval
2. Dutchess County Department of Behavioral and Community Health – Sewer & Water connection approval
3. Village of Wappingers Falls Planning Board - Site Plan Approval
4. Village of Wappingers Falls Water Department and Village Sewer District - Water & Sewer Hookups
5. NYS Office of Parks, Recreation, and Historic Preservation (OPRHP) – SHPO Consult

2.0 ENVIRONMENTAL ASSESSMENT

2.1 Land Use, Zoning and Public Policy

2.1.1 Land Use

The project site is located in the Village Residential (VR) zoning district and is currently undeveloped. The land uses located within 1,000 feet of the project site are characterized by

commercial (office buildings with associated parking), vacant (wooded and undeveloped), and residential areas (see Figure 3).

The proposed use, as an eight-unit, multifamily residential development, is a permitted use within the VR zone, pursuant to site plan review. The proposed use is permitted and will be consistent with the mixed land use character of the area.

2.1.2 Zoning

As stated above, the project site is located within the VR zoning district.

Per Article III, ZS 151-10, Table 4A, multifamily dwellings are classified as permitted uses within the VR District, pursuant to site plan review.

The proposed project will comply with all of the lot, bulk, and design requirements and standards included in ZS 151, Table 2C.

The proposed project will comply with all of the Village's parking criteria included in ZS 151-24(E), (I), and (L).

The proposed project will comply with all of the Village's screening requirements included in ZS 151-24(H), parking lot landscaping requirements included in ZS 151-24(I), and new planting requirements included in ZS 151-24(K).

2.1.3 Public Policy

The 2001 Village of Wappingers Falls Comprehensive Plan Volume states that two of the Village's goals focus on encouraging diversified growth of the Village, including a variety of residential, commercial, and industrial areas, while still preserving its single-family residential character; and, ensuring that public facilities and services are adequate in location, capacity and design to properly serve planned development and growth of the Village. The proposed project meets both goals, as the proposed multi-family development encourages housing diversity and is in an ideal residential location, proximate to diverse amenities within walking and driving distance from the project site.

2.2 Utilities

2.2.1 Water Supply

Municipal water is available at the project site and has the capacity to support the proposed project. The total anticipated water demand per day for the proposed eight apartment units (eight, two-bedroom units) would be approximately 1,760 gallons per day. The Applicant will coordinate with the Village of Wappingers Falls Water Department for water connections.

2.2.2 Sanitary Sewage

Municipal sewer is available at the project site and has the capacity to support the proposed project; therefore, the proposed project will connect to existing municipal sanitary sewer infrastructure. The total anticipated liquid waste generation per day for the proposed eight

apartment units (eight, two-bedroom units) would be approximately 1,760 gallons per day. The Applicant will coordinate with the Village of Wappingers Falls Sewer District for sanitary sewer connections.

2.3 Soils and Water Resources

2.3.1 Soils

The following table provides the soil characteristics for each soil type expected to be found on the project site, according to the USDA Natural Resources Conservation Service website (see Figure 4).

Table 1: Characteristics of Anticipated Soil Types within Project Site

% of SITE	SOIL SYMBOL	SOIL TYPE	FARMLAND CLASSIFICATION	SLOPES	DRAINAGE	DEPTH TO WATER TABLE	DEPTH TO BEDROCK
89.3	HuB	Hoosic-Urban land complex, undulating	Not prime farmland	1-6%	Somewhat excessively drained	>80 inches	>80 inches
9.8	Ps	Pits, gravel	Not prime farmland				
0.8	HsD	Hoosic gravelly loam, hilly	Not prime farmland	15-30%	Somewhat excessively drained	>80 inches	>80 inches

A majority of the project site is occupied by the HuB soil type. This soil type is considered to be somewhat excessively well drained. The majority of the project site is relatively flat, with only 1-6% slopes.

2.3.2 Surface Water Resources and Floodplains

According to the NYSDEC EAF Mapper, the NYSDEC Environmental Resource Mapper, and available GIS mapping, the project site does not contain nor is contiguous to a State or Federally regulated wetland. Additionally, there are no floodplains located on or near the project site. However, the proposed project is located on a principal aquifer. The site will be connected to municipal water and sewer services. Thus, the proposed project will not result in any adverse impacts to wetlands or streams.

2.4 Vegetation and Wildlife

According to the NYSDEC Environmental Resource Mapper (Figure 6), there are known occurrences of the pied-billed grebe and Indiana bat on or in the vicinity of the project site.

According to the United States Fish and Wildlife Service (USFWS) Information for Planning and Consultation (IPaC), the project lies within the range of records for Indiana bat

(endangered), northern long-eared bat¹ and the monarch butterfly, a candidate species. Candidate species are not regulated by the USFWS (See Attachment A). The IPaC also states that there are no critical habitats at the project location.

The proposed project will require 0.11 acres of tree clearing for construction of the proposed multifamily development. To avoid direct or indirect take of bat species, it is recommended that any forest clearing take place between October 30 and March 31, as during this time, the bats would be in hibernation and not present on the project site.

The pied-billed grebe nests in open water or within stands of tall, emergent vegetation, such as cattails. It breeds on freshwater to brackish seasonal and permanent ponds. Since there are no wetlands or other waterbodies on or near the project site, it is safe to assume that this species will not be present and there will be no adverse impacts.

2.5 Historic and Archaeological Resources

According to the NYS Office of Parks, Recreation, and Historic Preservation (NYSOPRHP) Cultural Resource Information System (CRIS) mapping (Figure 7), there are no National or State Historic Register sites on the project site; however, there is a National Register Historic Site, Wappingers Falls Historic District (NR# 90NR00446), located substantially contiguous to the site. The Wappingers Falls Historic District is located just north of the project site, opposite Garden Street. The Wappingers Falls Historic District is considered state and nationally significant due to its historic industry/processing/extraction uses & late Victorian architecture.

The project site is also located within a known archaeologically sensitive area. Therefore, a consultation request will be submitted to NYSOPRHP.

2.6 Environmental Contamination

The project site is within 2,000 feet of four sites (DEC IDs 314045, 314058, 314127, 31404, and 546031). located in the NYSDEC Environmental Site Remediation database. These four sites are located off-site from the project site.

DEC Site ID 314045 is identified as Wappingers Falls Village Landfill, which was in the State Superfund Program and classified as a Class N remediation site. This site was a municipal landfill site which received municipal wastes including Village STP dried sludge. Closure of site includes a final soil cover, leachate control and drainage control. No record of hazardous waste disposal at the site exists. The site is currently used for disposal of leaves and brush. A Phase I investigation has been completed. The site does not qualify for addition to the Registry of Inactive Hazardous Waste Disposal Sites.

DEC Site ID 314058 is identified as Three Star Anodizing, which was in the State Superfund Program and classified as a Class 2 remediation site. Three Star Anodizing was an industrial site that discharged contaminants to the Wappinger Creek. Currently, site remediation is complete and residual contaminants in the soil, groundwater, and sediment are being

¹ Recently the USFWS published a final rule uplisting the northern long-eared bat from threatened to endangered. That rule will go into effect January 30, 2023. This uplisting would likely cause the northern long-eared bat to be regulated in a similar fashion as the Indiana bat.

managed under a site management plan (SMP). Site access is unrestricted so trespassers and on-site employees could be exposed to surface wastes and contaminated surface soil. However, exposure via drinking water is not expected as the site is served by public water. Potential for volatile organic compounds (VOCs) found in soil and groundwater to migrate via soil vapor intrusion will be investigated and mitigation will be provided as necessary.

DEC Site ID 314127 is identified as Wappinger Creek, which was in the State Superfund Program and classified as a Class 2 remediation site. Previous industrial uses have resulted in contaminants in the stream bed. The primary contaminants of concern in the creek sediments are mercury, lead, zinc and chromium. As information for this site becomes available, it will be reviewed by the NYSDOH to determine if site contamination presents public health exposure concerns.

DEC Site ID 546031 is identified as Hudson River PCB Sediments, which was in the State Superfund Program and classified as a Class 2 remediation site. The sediments were a result of discharge (1946-present) from two GE plants in Hudson Falls and Fort Edward. This site has been included in the Federal National Priorities List (NPL). Remedial investigation to address floodplain soils in the Upper Hudson River Floodplain under USEPA and State oversight is now underway.

2.7 Traffic

According to the Institute of Transportation Engineers (ITE) Traffic Generation Manual, 11th Edition, low-rise multifamily housing with eight apartment units, (Land Use Code 220) is expected to generate 3 vehicle trip ends (vtes) per weekday a.m. peak hour of adjacent street traffic (1 entry/2 exit) and 4 vtes per weekday p.m. peak hour of adjacent street traffic (3 entry/1 exit). The total of 3 a.m. peak hour vtes and total of 4 p.m. peak hour vtes, are each below the ITE guideline of 100 peak hour trips for warranting a detailed traffic analysis.

Therefore, it is safe to assume that the proposed project will not adversely affect the traffic operations on the surrounding roadway network.

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FULL ENVIRONMENTAL ASSESSMENT FORM PART 1

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Full Environmental Assessment Form
Part 1 - Project and Setting

Instructions for Completing Part 1

Part 1 is to be completed by the applicant or project sponsor. 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; indicate whether missing information does not exist, or is not reasonably available to the sponsor; and, when possible, generally describe work or studies which would be necessary to update or fully develop that information.

Applicants/sponsors must complete all items in Sections A & B. In Sections C, D & E, most items contain an initial question that must be answered either “Yes” or “No”. If the answer to the initial question is “Yes”, complete the sub-questions that follow. If the answer to the initial question is “No”, proceed to the next question. Section F allows the project sponsor to identify and attach any additional information. Section G requires the name and signature of the applicant or project sponsor to verify that the information contained in Part 1 is accurate and complete.

A. Project and Applicant/Sponsor Information.

Name of Action or Project:		
Project Location (describe, and attach a general location map):		
Brief Description of Proposed Action (include purpose or need):		
Name of Applicant/Sponsor:		Telephone:
		E-Mail:
Address:		
City/PO:	State:	Zip Code:
Project Contact (if not same as sponsor; give name and title/role):		Telephone:
		E-Mail:
Address:		
City/PO:	State:	Zip Code:
Property Owner (if not same as sponsor):		Telephone:
		E-Mail:
Address:		
City/PO:	State:	Zip Code:

B. Government Approvals

B. Government Approvals, Funding, or Sponsorship. (“Funding” includes grants, loans, tax relief, and any other forms of financial assistance.)

Government Entity	If Yes: Identify Agency and Approval(s) Required	Application Date (Actual or projected)
a. City Counsel, Town Board, or Village Board of Trustees <input type="checkbox"/> Yes <input type="checkbox"/> No		
b. City, Town or Village Planning Board or Commission <input type="checkbox"/> Yes <input type="checkbox"/> No		
c. City, Town or Village Zoning Board of Appeals <input type="checkbox"/> Yes <input type="checkbox"/> No		
d. Other local agencies <input type="checkbox"/> Yes <input type="checkbox"/> No		
e. County agencies <input type="checkbox"/> Yes <input type="checkbox"/> No		
f. Regional agencies <input type="checkbox"/> Yes <input type="checkbox"/> No		
g. State agencies <input type="checkbox"/> Yes <input type="checkbox"/> No		
h. Federal agencies <input type="checkbox"/> Yes <input type="checkbox"/> No		
i. Coastal Resources. <ul style="list-style-type: none"> <li data-bbox="121 829 1542 861">i. Is the project site within a Coastal Area, or the waterfront area of a Designated Inland Waterway? <input type="checkbox"/> Yes <input type="checkbox"/> No <li data-bbox="121 892 1542 924">ii. Is the project site located in a community with an approved Local Waterfront Revitalization Program? <input type="checkbox"/> Yes <input type="checkbox"/> No <li data-bbox="121 924 1542 955">iii. Is the project site within a Coastal Erosion Hazard Area? <input type="checkbox"/> Yes <input type="checkbox"/> No 		

C. Planning and Zoning

C.1. Planning and zoning actions.

Will administrative or legislative adoption, or amendment of a plan, local law, ordinance, rule or regulation be the only approval(s) which must be granted to enable the proposed action to proceed? Yes No

- **If Yes**, complete sections C, F and G.
- **If No**, proceed to question C.2 and complete all remaining sections and questions in Part 1

C.2. Adopted land use plans.

a. Do any municipally- adopted (city, town, village or county) comprehensive land use plan(s) include the site where the proposed action would be located? Yes No

If Yes, does the comprehensive plan include specific recommendations for the site where the proposed action would be located? Yes No

b. Is the site of the proposed action within any local or regional special planning district (for example: Greenway; Brownfield Opportunity Area (BOA); designated State or Federal heritage area; watershed management plan; or other?) Yes No

If Yes, identify the plan(s):

c. Is the proposed action located wholly or partially within an area listed in an adopted municipal open space plan, or an adopted municipal farmland protection plan? Yes No

If Yes, identify the plan(s):

C.3. Zoning

a. Is the site of the proposed action located in a municipality with an adopted zoning law or ordinance. Yes No
If Yes, what is the zoning classification(s) including any applicable overlay district?

b. Is the use permitted or allowed by a special or conditional use permit? Yes No

c. Is a zoning change requested as part of the proposed action? Yes No

If Yes,

i. What is the proposed new zoning for the site? _____

C.4. Existing community services.

a. In what school district is the project site located? _____

b. What police or other public protection forces serve the project site?

c. Which fire protection and emergency medical services serve the project site?

d. What parks serve the project site?

D. Project Details

D.1. Proposed and Potential Development

a. What is the general nature of the proposed action (e.g., residential, industrial, commercial, recreational; if mixed, include all components)?

b. a. Total acreage of the site of the proposed action? _____ acres
b. Total acreage to be physically disturbed? _____ acres
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? _____ acres

Note: 0.85 acres includes the subject property and the disturbed areas outside of property bounds.
Note: 0.51 acres is the limit of disturbance. Of the total 0.51 acres of ground disturbance, 0.35 acres is on-site and 0.16 acres is off-site.

c. Is the proposed action an expansion of an existing project or use? Yes No

i. If Yes, what is the approximate percentage of the proposed expansion and identify the units (e.g., acres, miles, housing units, square feet)? % _____ Units: _____

d. Is the proposed action a subdivision, or does it include a subdivision? Yes No

If Yes,

i. Purpose or type of subdivision? (e.g., residential, industrial, commercial; if mixed, specify types)

ii. Is a cluster/conservation layout proposed? Yes No

iii. Number of lots proposed? _____

iv. Minimum and maximum proposed lot sizes? Minimum _____ Maximum _____

e. Will the proposed action be constructed in multiple phases? Yes No

i. If No, anticipated period of construction: _____ months

ii. If Yes:

- Total number of phases anticipated _____
- Anticipated commencement date of phase 1 (including demolition) _____ month _____ year
- Anticipated completion date of final phase _____ month _____ year

• Generally describe connections or relationships among phases, including any contingencies where progress of one phase may determine timing or duration of future phases: _____

f. Does the project include new residential uses? Yes No
 If Yes, show numbers of units proposed.

	<u>One Family</u>	<u>Two Family</u>	<u>Three Family</u>	<u>Multiple Family (four or more)</u>
Initial Phase	_____	_____	_____	_____
At completion	_____	_____	_____	_____
of all phases	_____	_____	_____	_____

g. Does the proposed action include new non-residential construction (including expansions)? Yes No
 If Yes,

i. Total number of structures _____

ii. Dimensions (in feet) of largest proposed structure: _____ height; _____ width; and _____ length

iii. Approximate extent of building space to be heated or cooled: _____ square feet

h. Does the proposed action include construction or other activities that will result in the impoundment of any liquids, such as creation of a water supply, reservoir, pond, lake, waste lagoon or other storage? Yes No
 If Yes,

i. Purpose of the impoundment: _____

ii. If a water impoundment, the principal source of the water: Ground water Surface water streams Other specify: _____

iii. If other than water, identify the type of impounded/contained liquids and their source.

iv. Approximate size of the proposed impoundment. Volume: _____ million gallons; surface area: _____ acres

v. Dimensions of the proposed dam or impounding structure: _____ height; _____ length

vi. Construction method/materials for the proposed dam or impounding structure (e.g., earth fill, rock, wood, concrete):

D.2. Project Operations

a. Does the proposed action include any excavation, mining, or dredging, during construction, operations, or both? Yes No
 (Not including general site preparation, grading or installation of utilities or foundations where all excavated materials will remain onsite)
 If Yes:

i. What is the purpose of the excavation or dredging? _____

ii. How much material (including rock, earth, sediments, etc.) is proposed to be removed from the site?

- Volume (specify tons or cubic yards): _____
- Over what duration of time? _____

iii. Describe nature and characteristics of materials to be excavated or dredged, and plans to use, manage or dispose of them.

iv. Will there be onsite dewatering or processing of excavated materials? Yes No
 If yes, describe. _____

v. What is the total area to be dredged or excavated? _____ acres

vi. What is the maximum area to be worked at any one time? _____ acres

vii. What would be the maximum depth of excavation or dredging? _____ feet

viii. Will the excavation require blasting? Yes No

ix. Summarize site reclamation goals and plan: _____

b. Would the proposed action cause or result in alteration of, increase or decrease in size of, or encroachment into any existing wetland, waterbody, shoreline, beach or adjacent area? Yes No
 If Yes:

i. Identify the wetland or waterbody which would be affected (by name, water index number, wetland map number or geographic description): _____

ii. Describe how the proposed action would affect that waterbody or wetland, e.g. excavation, fill, placement of structures, or alteration of channels, banks and shorelines. Indicate extent of activities, alterations and additions in square feet or acres:

iii. Will the proposed action cause or result in disturbance to bottom sediments? Yes No

If Yes, describe: _____

iv. Will the proposed action cause or result in the destruction or removal of aquatic vegetation? Yes No

If Yes:

- acres of aquatic vegetation proposed to be removed: _____
- expected acreage of aquatic vegetation remaining after project completion: _____
- purpose of proposed removal (e.g. beach clearing, invasive species control, boat access): _____

- proposed method of plant removal: _____
- if chemical/herbicide treatment will be used, specify product(s): _____

v. Describe any proposed reclamation/mitigation following disturbance: _____

c. Will the proposed action use, or create a new demand for water? Yes No

If Yes: **The apartments would require 110 gpd/bedroom. Assuming eight, 2-BR units (8 x 220 gpd) = 1,760 gpd/day**

i. Total anticipated water usage/demand per day: _____ gallons/day

ii. Will the proposed action obtain water from an existing public water supply? Yes No

If Yes:

- Name of district or service area: _____
- Does the existing public water supply have capacity to serve the proposal? Yes No
- Is the project site in the existing district? Yes No
- Is expansion of the district needed? Yes No
- Do existing lines serve the project site? Yes No

iii. Will line extension within an existing district be necessary to supply the project? Yes No

If Yes:

- Describe extensions or capacity expansions proposed to serve this project: _____

- Source(s) of supply for the district: _____

iv. Is a new water supply district or service area proposed to be formed to serve the project site? Yes No

If, Yes:

- Applicant/sponsor for new district: _____
- Date application submitted or anticipated: _____
- Proposed source(s) of supply for new district: _____

v. If a public water supply will not be used, describe plans to provide water supply for the project: _____

vi. If water supply will be from wells (public or private), what is the maximum pumping capacity: _____ gallons/minute.

d. Will the proposed action generate liquid wastes? Yes No

If Yes: **The apartments would require 110 gpd/bedroom. Assuming eight, 2-BR units (8 x 220 gpd) = 1,760 gpd/day**

i. Total anticipated liquid waste generation per day: _____ gallons/day

ii. Nature of liquid wastes to be generated (e.g., sanitary wastewater, industrial; if combination, describe all components and approximate volumes or proportions of each): _____

iii. Will the proposed action use any existing public wastewater treatment facilities? Yes No

If Yes:

- Name of wastewater treatment plant to be used: _____
- Name of district: _____
- Does the existing wastewater treatment plant have capacity to serve the project? Yes No
- Is the project site in the existing district? Yes No
- Is expansion of the district needed? Yes No

• Do existing sewer lines serve the project site? Yes No
 • Will a line extension within an existing district be necessary to serve the project? Yes No
 If Yes:
 • Describe extensions or capacity expansions proposed to serve this project: _____

iv. Will a new wastewater (sewage) treatment district be formed to serve the project site? Yes No
 If Yes:
 • Applicant/sponsor for new district: _____
 • Date application submitted or anticipated: _____
 • What is the receiving water for the wastewater discharge? _____

v. If public facilities will not be used, describe plans to provide wastewater treatment for the project, including specifying proposed receiving water (name and classification if surface discharge or describe subsurface disposal plans):

vi. Describe any plans or designs to capture, recycle or reuse liquid waste: _____

e. Will the proposed action disturb more than one acre and create stormwater runoff, either from new point sources (i.e. ditches, pipes, swales, curbs, gutters or other concentrated flows of stormwater) or non-point source (i.e. sheet flow) during construction or post construction? Yes No
 If Yes:
 i. How much impervious surface will the project create in relation to total size of project parcel?
 _____ Square feet or _____ acres (impervious surface)
 _____ Square feet or _____ acres (parcel size)
 ii. Describe types of new point sources. _____

iii. Where will the stormwater runoff be directed (i.e. on-site stormwater management facility/structures, adjacent properties, groundwater, on-site surface water or off-site surface waters)?

 • If to surface waters, identify receiving water bodies or wetlands: _____

• Will stormwater runoff flow to adjacent properties? Yes No

iv. Does the proposed plan minimize impervious surfaces, use pervious materials or collect and re-use stormwater? Yes No

f. Does the proposed action include, or will it use on-site, one or more sources of air emissions, including fuel combustion, waste incineration, or other processes or operations? Yes No
 If Yes, identify:
 i. Mobile sources during project operations (e.g., heavy equipment, fleet or delivery vehicles)

 ii. Stationary sources during construction (e.g., power generation, structural heating, batch plant, crushers)

 iii. Stationary sources during operations (e.g., process emissions, large boilers, electric generation)

g. Will any air emission sources named in D.2.f (above), require a NY State Air Registration, Air Facility Permit, or Federal Clean Air Act Title IV or Title V Permit? Yes No
 If Yes:
 i. Is the project site located in an Air quality non-attainment area? (Area routinely or periodically fails to meet ambient air quality standards for all or some parts of the year) Yes No
 ii. In addition to emissions as calculated in the application, the project will generate:
 • _____ Tons/year (short tons) of Carbon Dioxide (CO₂)
 • _____ Tons/year (short tons) of Nitrous Oxide (N₂O)
 • _____ Tons/year (short tons) of Perfluorocarbons (PFCs)
 • _____ Tons/year (short tons) of Sulfur Hexafluoride (SF₆)
 • _____ Tons/year (short tons) of Carbon Dioxide equivalent of Hydroflouorocarbons (HFCs)
 • _____ Tons/year (short tons) of Hazardous Air Pollutants (HAPs)

h. Will the proposed action generate or emit methane (including, but not limited to, sewage treatment plants, landfills, composting facilities)? Yes No

If Yes:

i. Estimate methane generation in tons/year (metric): _____

ii. Describe any methane capture, control or elimination measures included in project design (e.g., combustion to generate heat or electricity, flaring): _____

i. Will the proposed action result in the release of air pollutants from open-air operations or processes, such as quarry or landfill operations? Yes No

If Yes: Describe operations and nature of emissions (e.g., diesel exhaust, rock particulates/dust): _____

j. Will the proposed action result in a substantial increase in traffic above present levels or generate substantial new demand for transportation facilities or services? Yes No

If Yes:

i. When is the peak traffic expected (Check all that apply): Morning Evening Weekend
 Randomly between hours of _____ to _____.

ii. For commercial activities only, projected number of truck trips/day and type (e.g., semi trailers and dump trucks): _____

iii. Parking spaces: Existing _____ Proposed _____ Net increase/decrease _____

iv. Does the proposed action include any shared use parking? Yes No

v. If the proposed action includes any modification of existing roads, creation of new roads or change in existing access, describe: _____

vi. Are public/private transportation service(s) or facilities available within 1/2 mile of the proposed site? Yes No

vii. Will the proposed action include access to public transportation or accommodations for use of hybrid, electric or other alternative fueled vehicles? Yes No

viii. Will the proposed action include plans for pedestrian or bicycle accommodations for connections to existing pedestrian or bicycle routes? Yes No

k. Will the proposed action (for commercial or industrial projects only) generate new or additional demand for energy? Yes No

If Yes:

i. Estimate annual electricity demand during operation of the proposed action: _____

ii. Anticipated sources/suppliers of electricity for the project (e.g., on-site combustion, on-site renewable, via grid/local utility, or other): _____

iii. Will the proposed action require a new, or an upgrade, to an existing substation? Yes No

l. Hours of operation. Answer all items which apply.

<p><i>i.</i> During Construction:</p> <ul style="list-style-type: none"> • Monday - Friday: _____ • Saturday: _____ • Sunday: _____ • Holidays: _____ 	<p><i>ii.</i> During Operations:</p> <ul style="list-style-type: none"> • Monday - Friday: _____ • Saturday: _____ • Sunday: _____ • Holidays: _____
---	--

m. Will the proposed action produce noise that will exceed existing ambient noise levels during construction, operation, or both? Yes No
 If yes:
 i. Provide details including sources, time of day and duration:

ii. Will the proposed action remove existing natural barriers that could act as a noise barrier or screen? Yes No
 Describe: _____

n. Will the proposed action have outdoor lighting? Yes No
 If yes:
 i. Describe source(s), location(s), height of fixture(s), direction/aim, and proximity to nearest occupied structures:

ii. Will proposed action remove existing natural barriers that could act as a light barrier or screen? Yes No
 Describe: _____

o. Does the proposed action have the potential to produce odors for more than one hour per day? Yes No
 If Yes, describe possible sources, potential frequency and duration of odor emissions, and proximity to nearest occupied structures: _____

p. Will the proposed action include any bulk storage of petroleum (combined capacity of over 1,100 gallons) or chemical products 185 gallons in above ground storage or any amount in underground storage? Yes No
 If Yes:
 i. Product(s) to be stored _____
 ii. Volume(s) _____ per unit time _____ (e.g., month, year)
 iii. Generally, describe the proposed storage facilities: _____

q. Will the proposed action (commercial, industrial and recreational projects only) use pesticides (i.e., herbicides, insecticides) during construction or operation? Yes No
 If Yes:
 i. Describe proposed treatment(s):

ii. Will the proposed action use Integrated Pest Management Practices? Yes No

r. Will the proposed action (commercial or industrial projects only) involve or require the management or disposal of solid waste (excluding hazardous materials)? Yes No
 If Yes:
 i. Describe any solid waste(s) to be generated during construction or operation of the facility:
 • Construction: _____ tons per _____ (unit of time)
 • Operation : _____ tons per _____ (unit of time)
 ii. Describe any proposals for on-site minimization, recycling or reuse of materials to avoid disposal as solid waste:
 • Construction: _____

 • Operation: _____

 iii. Proposed disposal methods/facilities for solid waste generated on-site:
 • Construction: _____

 • Operation: _____

s. Does the proposed action include construction or modification of a solid waste management facility? Yes No
 If Yes:
 i. Type of management or handling of waste proposed for the site (e.g., recycling or transfer station, composting, landfill, or other disposal activities): _____
 ii. Anticipated rate of disposal/processing:
 • _____ Tons/month, if transfer or other non-combustion/thermal treatment, or
 • _____ Tons/hour, if combustion or thermal treatment
 iii. If landfill, anticipated site life: _____ years

t. Will the proposed action at the site involve the commercial generation, treatment, storage, or disposal of hazardous waste? Yes No
 If Yes:
 i. Name(s) of all hazardous wastes or constituents to be generated, handled or managed at facility: _____

 ii. Generally describe processes or activities involving hazardous wastes or constituents: _____

 iii. Specify amount to be handled or generated _____ tons/month
 iv. Describe any proposals for on-site minimization, recycling or reuse of hazardous constituents: _____

 v. Will any hazardous wastes be disposed at an existing offsite hazardous waste facility? Yes No
 If Yes: provide name and location of facility: _____

 If No: describe proposed management of any hazardous wastes which will not be sent to a hazardous waste facility:

E. Site and Setting of Proposed Action

E.1. Land uses on and surrounding the project site

a. Existing land uses.
 i. Check all uses that occur on, adjoining and near the project site.
 Urban Industrial Commercial Residential (suburban) Rural (non-farm)
 Forest Agriculture Aquatic Other (specify): _____
 ii. If mix of uses, generally describe:

b. Land uses and covertypes on the project site.

Land use or Covertypes	Current Acreage	Acreage After Project Completion	Change (Acres +/-)
• Roads, buildings, and other paved or impervious surfaces			
• Forested			
• Meadows, grasslands or brushlands (non-agricultural, including abandoned agricultural)			
• Agricultural (includes active orchards, field, greenhouse etc.)			
• Surface water features (lakes, ponds, streams, rivers, etc.)			
• Wetlands (freshwater or tidal)			
• Non-vegetated (bare rock, earth or fill)			
• Other Describe: _____ _____			

c. Is the project site presently used by members of the community for public recreation? Yes No
i. If Yes: explain: _____

d. Are there any facilities serving children, the elderly, people with disabilities (e.g., schools, hospitals, licensed day care centers, or group homes) within 1500 feet of the project site? Yes No
If Yes,
i. Identify Facilities:

e. Does the project site contain an existing dam? Yes No
If Yes:
i. Dimensions of the dam and impoundment:

- Dam height: _____ feet
- Dam length: _____ feet
- Surface area: _____ acres
- Volume impounded: _____ gallons OR acre-feet

ii. Dam's existing hazard classification: _____
iii. Provide date and summarize results of last inspection:

f. Has the project site ever been used as a municipal, commercial or industrial solid waste management facility, or does the project site adjoin property which is now, or was at one time, used as a solid waste management facility? Yes No
If Yes: *Note: Site code 314045, Wappingers Falls Village Landfill, abuts the project site on its eastern edge.*
i. Has the facility been formally closed? *The DEC ER Record states that the facility was closed, however a formal closure date is not provided.* Yes No

- If yes, cite sources/documentation: _____

ii. Describe the location of the project site relative to the boundaries of the solid waste management facility:

iii. Describe any development constraints due to the prior solid waste activities: _____

g. Have hazardous wastes been generated, treated and/or disposed of at the site, or does the project site adjoin property which is now or was at one time used to commercially treat, store and/or dispose of hazardous waste? Yes No
If Yes: *Note: The Wappingers Falls Village Landfill abuts the project site on its eastern edge. The DEC ER Database states that no official record of hazardous waste disposal at the project site exists; however, the site does not qualify for addition to the Registry of Inactive Hazardous Waste Disposal Sites.*
i. Describe waste(s) handled and waste management activities, including approximate time when activities occurred:

h. Potential contamination history. Has there been a reported spill at the proposed project site, or have any remedial actions been conducted at or adjacent to the proposed site? Yes No
If Yes: *Note: The four sites in the NYSDEC Environmental Site Remediation database are located off-site.*
i. Is any portion of the site listed on the NYSDEC Spills Incidents database or Environmental Site Remediation database? Check all that apply: Yes No
 Yes – Spills Incidents database Provide DEC ID number(s): _____
 Yes – Environmental Site Remediation database Provide DEC ID number(s): _____
 Neither database
ii. If site has been subject of RCRA corrective activities, describe control measures: _____

iii. Is the project within 2000 feet of any site in the NYSDEC Environmental Site Remediation database? Yes No
If yes, provide DEC ID number(s): _____
iv. If yes to (i), (ii) or (iii) above, describe current status of site(s):

is complete and residual contaminants in the soil, groundwater, and sediment are being managed under a SMP. Site access is unrestricted so trespassers and on-site employees could be exposed to surface wastes and contaminated surface soil. However, exposure via drinking water is not expected as the site is served by public water. Potential for VOCs found in soil and groundwater to migrate via soil vapor intrusion will be investigated and mitigation will be provided as necessary.

314045: Wappingers Falls Village Landfill: State Superfund Program Class N - A municipal landfill site which received municipal wastes including Village STP dried sludge. Closure of site includes a final soil cover, leachate control and drainage control. No record of hazardous waste disposal at site exists. Phase I was completed. The site does not qualify for addition to the Registry of Inactive Hazardous Waste Disposal Sites.
546031: Hudson River PCB Sediments: State Superfund Program Class 2 - Result of discharge (1946-present) from two GE plants in Hudson Falls and Fort Edward. This site has been included in the Federal National Priorities List (NPL). Remedial investigation to address floodplain soils in the Upper Hudson River Floodplain under USEPA and State oversight is now underway.

v. Is the project site subject to an institutional control limiting property uses? Yes No

- If yes, DEC site ID number: _____
- Describe the type of institutional control (e.g., deed restriction or easement): _____
- Describe any use limitations: _____
- Describe any engineering controls: _____
- Will the project affect the institutional or engineering controls in place? Yes No
- Explain: _____

E.2. Natural Resources On or Near Project Site

a. What is the average depth to bedrock on the project site? _____ feet

b. Are there bedrock outcroppings on the project site? Yes No
 If Yes, what proportion of the site is comprised of bedrock outcroppings? _____%

c. Predominant soil type(s) present on project site: _____ %
 _____ %
 _____ %

d. What is the average depth to the water table on the project site? Average: _____ feet

e. Drainage status of project site soils: Well Drained: _____ % of site
 Moderately Well Drained: _____ % of site
 Poorly Drained _____ % of site

f. Approximate proportion of proposed action site with slopes: 0-10%: _____ % of site
 10-15%: _____ % of site
 15% or greater: _____ % of site

g. Are there any unique geologic features on the project site? Yes No
 If Yes, describe: _____

h. Surface water features.

i. Does any portion of the project site contain wetlands or other waterbodies (including streams, rivers, ponds or lakes)? Yes No

ii. Do any wetlands or other waterbodies adjoin the project site? Yes No
 If Yes to either *i* or *ii*, continue. If No, skip to E.2.i.

iii. Are any of the wetlands or waterbodies within or adjoining the project site regulated by any federal, state or local agency? Yes No

iv. For each identified regulated wetland and waterbody on the project site, provide the following information:

- Streams: Name _____ Classification _____
- Lakes or Ponds: Name _____ Classification _____
- Wetlands: Name _____ Approximate Size _____
- Wetland No. (if regulated by DEC) _____

v. Are any of the above water bodies listed in the most recent compilation of NYS water quality-impaired waterbodies? Yes No
 If yes, name of impaired water body/bodies and basis for listing as impaired: _____

i. Is the project site in a designated Floodway? Yes No

j. Is the project site in the 100-year Floodplain? Yes No

k. Is the project site in the 500-year Floodplain? Yes No

l. Is the project site located over, or immediately adjoining, a primary, principal or sole source aquifer? Yes No
 If Yes:
 i. Name of aquifer: _____

m. Identify the predominant wildlife species that occupy or use the project site: _____ _____ _____	
n. Does the project site contain a designated significant natural community? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes: <i>i.</i> Describe the habitat/community (composition, function, and basis for designation): _____ _____ <i>ii.</i> Source(s) of description or evaluation: _____ <i>iii.</i> Extent of community/habitat: <ul style="list-style-type: none"> • Currently: _____ acres • Following completion of project as proposed: _____ acres • Gain or loss (indicate + or -): _____ acres 	
o. Does project site contain any species of plant or animal that is listed by the federal government or NYS as endangered or threatened, or does it contain any areas identified as habitat for an endangered or threatened species? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes: <i>i.</i> Species and listing (endangered or threatened): _____ _____ _____	
p. Does the project site contain any species of plant or animal that is listed by NYS as rare, or as a species of special concern? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes: <i>i.</i> Species and listing: _____ _____	
q. Is the project site or adjoining area currently used for hunting, trapping, fishing or shell fishing? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, give a brief description of how the proposed action may affect that use: _____ _____	
E.3. Designated Public Resources On or Near Project Site	
a. Is the project site, or any portion of it, located in a designated agricultural district certified pursuant to Agriculture and Markets Law, Article 25-AA, Section 303 and 304? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes, provide county plus district name/number: _____	
b. Are agricultural lands consisting of highly productive soils present? <input type="checkbox"/> Yes <input type="checkbox"/> No <i>i.</i> If Yes: acreage(s) on project site? _____ <i>ii.</i> Source(s) of soil rating(s): _____	
c. Does the project site contain all or part of, or is it substantially contiguous to, a registered National Natural Landmark? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes: <i>i.</i> Nature of the natural landmark: <input type="checkbox"/> Biological Community <input type="checkbox"/> Geological Feature <i>ii.</i> Provide brief description of landmark, including values behind designation and approximate size/extent: _____ _____ _____	
d. Is the project site located in or does it adjoin a state listed Critical Environmental Area? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes: <i>i.</i> CEA name: _____ <i>ii.</i> Basis for designation: _____ <i>iii.</i> Designating agency and date: _____	

<p>e. 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? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If Yes: The project site does not contain any historic buildings or sites; however, it is substantially contiguous to a National Register Site just north of the project site across Garden Street.</p> <p>i. Nature of historic/archaeological resource: <input type="checkbox"/> Archaeological Site <input type="checkbox"/> Historic Building or District</p> <p>ii. Name: _____</p> <p>iii. Brief description of attributes on which listing is based: _____</p>
<p>f. 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? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p>g. Have additional archaeological or historic site(s) or resources been identified on the project site? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If Yes:</p> <p>i. Describe possible resource(s): _____</p> <p>ii. Basis for identification: _____</p>
<p>h. Is the project site within five miles of any officially designated and publicly accessible federal, state, or local scenic or aesthetic resource? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If Yes:</p> <p>i. Identify resource: _____</p> <p>ii. Nature of, or basis for, designation (e.g., established highway overlook, state or local park, state historic trail or scenic byway, etc.): _____</p> <p>iii. Distance between project and resource: _____ miles.</p>
<p>i. Is the project site located within a designated river corridor under the Wild, Scenic and Recreational Rivers Program 6 NYCRR 666? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If Yes:</p> <p>i. Identify the name of the river and its designation: _____</p> <p>ii. Is the activity consistent with development restrictions contained in 6NYCRR Part 666? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>

F. Additional Information

Attach any additional information which may be needed to clarify your project.

If you have identified any adverse impacts which could be associated with your proposal, please describe those impacts plus any measures which you propose to avoid or minimize them.

G. Verification

I certify that the information provided is true to the best of my knowledge.

Applicant/Sponsor Name _____ Date _____

Signature _____ *Krithika Prabhakaran* Title _____



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.



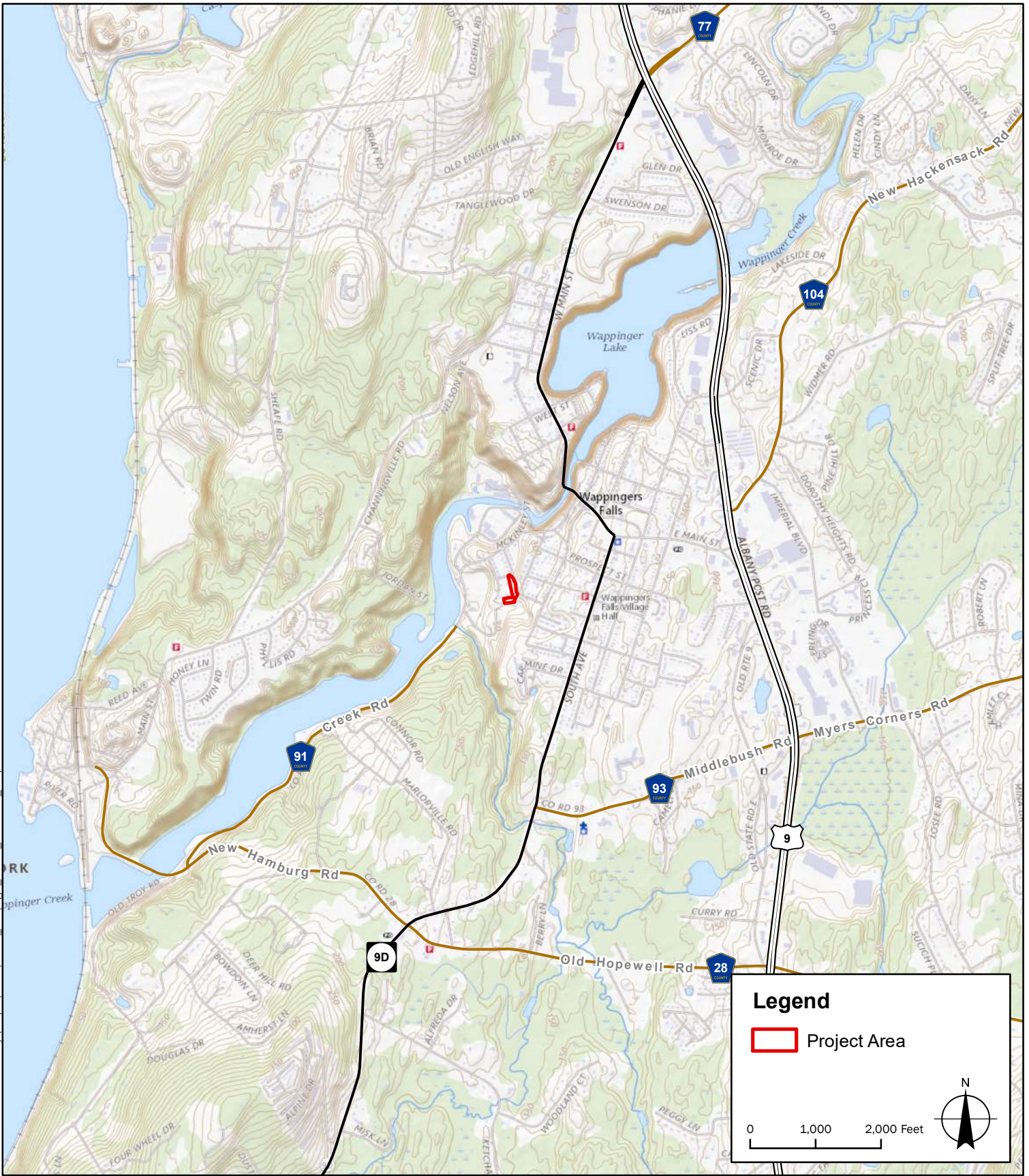
B.i.i [Coastal or Waterfront Area]	Yes
B.i.ii [Local Waterfront Revitalization Area]	No
C.2.b. [Special Planning District]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h [DEC Spills or Remediation Site - Potential Contamination History]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Listed]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Environmental Site Remediation Database]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.iii [Within 2,000' of DEC Remediation Site]	Yes
E.1.h.iii [Within 2,000' of DEC Remediation Site - DEC ID]	314127, 314058, 546031
E.2.g [Unique Geologic Features]	No
E.2.h.i [Surface Water Features]	No
E.2.h.ii [Surface Water Features]	No
E.2.h.iii [Surface Water Features]	No
E.2.h.v [Impaired Water Bodies]	No
E.2.i. [Floodway]	No
E.2.j. [100 Year Floodplain]	No
E.2.k. [500 Year Floodplain]	No
E.2.l. [Aquifers]	Yes
E.2.l. [Aquifer Names]	Principal Aquifer
E.2.n. [Natural Communities]	No

E.2.o. [Endangered or Threatened Species]	Yes
E.2.o. [Endangered or Threatened Species - Name]	Pied-billed Grebe, Indiana Bat
E.2.p. [Rare Plants or Animals]	No
E.3.a. [Agricultural District]	No
E.3.c. [National Natural Landmark]	No
E.3.d [Critical Environmental Area]	No
E.3.e. [National or State Register of Historic Places or State Eligible Sites]	Yes - Digital mapping data for archaeological site boundaries are not available. Refer to EAF Workbook.
E.3.e.ii [National or State Register of Historic Places or State Eligible Sites - Name]	Duchess Company Superintendent's House, Wappingers Falls Historic District
E.3.f. [Archeological Sites]	Yes
E.3.i. [Designated River Corridor]	No

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FIGURES

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- Sources:
1. Project Area: LaBella 2022; Regrid 2021
 2. Streets: NYS GIS Program Office 2022
 3. Basemap: USGS Topo Map

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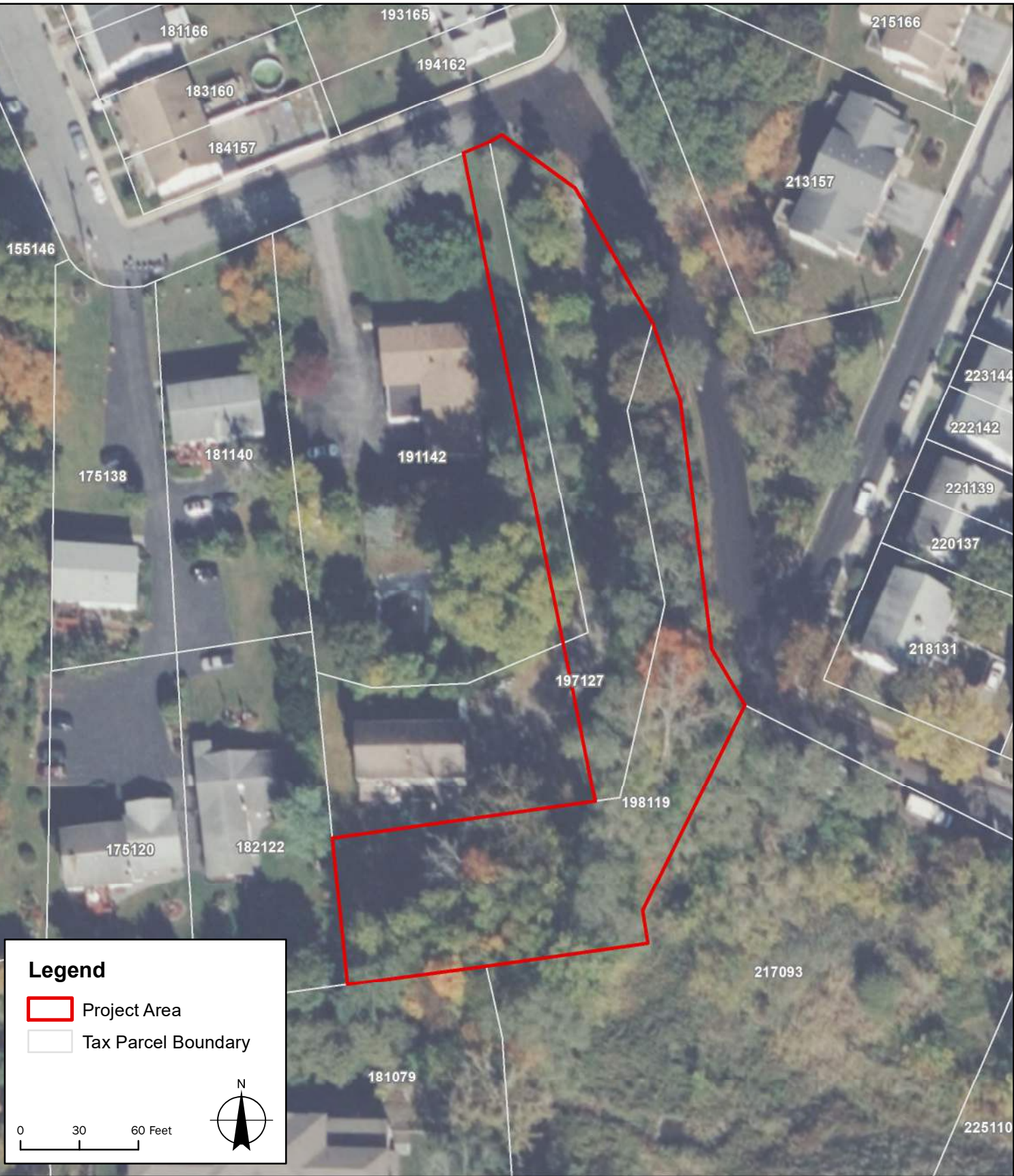
Dutchess Avenue,
Village of Wappinger Falls,
Dutchess Co., New York

Dutchess Avenue
Multifamily

LaBella Project No: 2230010
Date: 2/7/2023

**USGS Location
Map**

FIGURE 1



Legend

- Project Area
- Tax Parcel Boundary

0 30 60 Feet

- Sources:
1. Project Area: LaBella 2022
 2. Tax Parcels: Regrid 2021
 3. Streets: NYS GIS Program Office 2022
 4. Basemap: Bing Maps

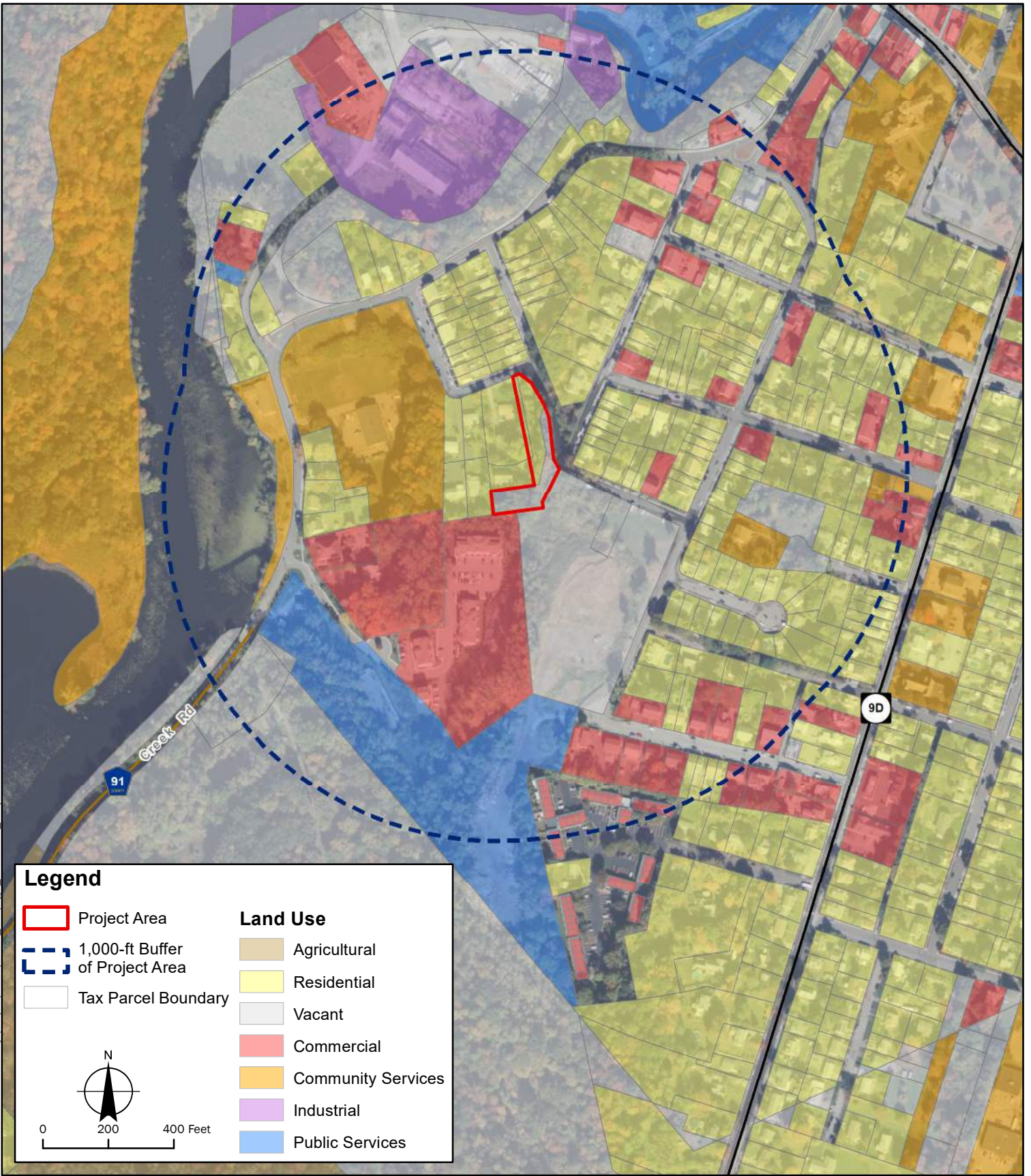
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Date: 2/7/2023

**Orthophoto
Tax Map
FIGURE 2**



Legend

Project Area	Land Use
1,000-ft Buffer of Project Area	Agricultural
Tax Parcel Boundary	Residential
	Vacant
	Commercial
	Community Services
	Industrial
	Public Services

- Sources:
1. Project Area: LaBella, 2022
 2. Tax Parcels: Regrid, 2021
 3. Land Use: Regrid, 2021
 4. Streets: NYS GIS Program Office, 2022
 5. Basemap: Bing Maps



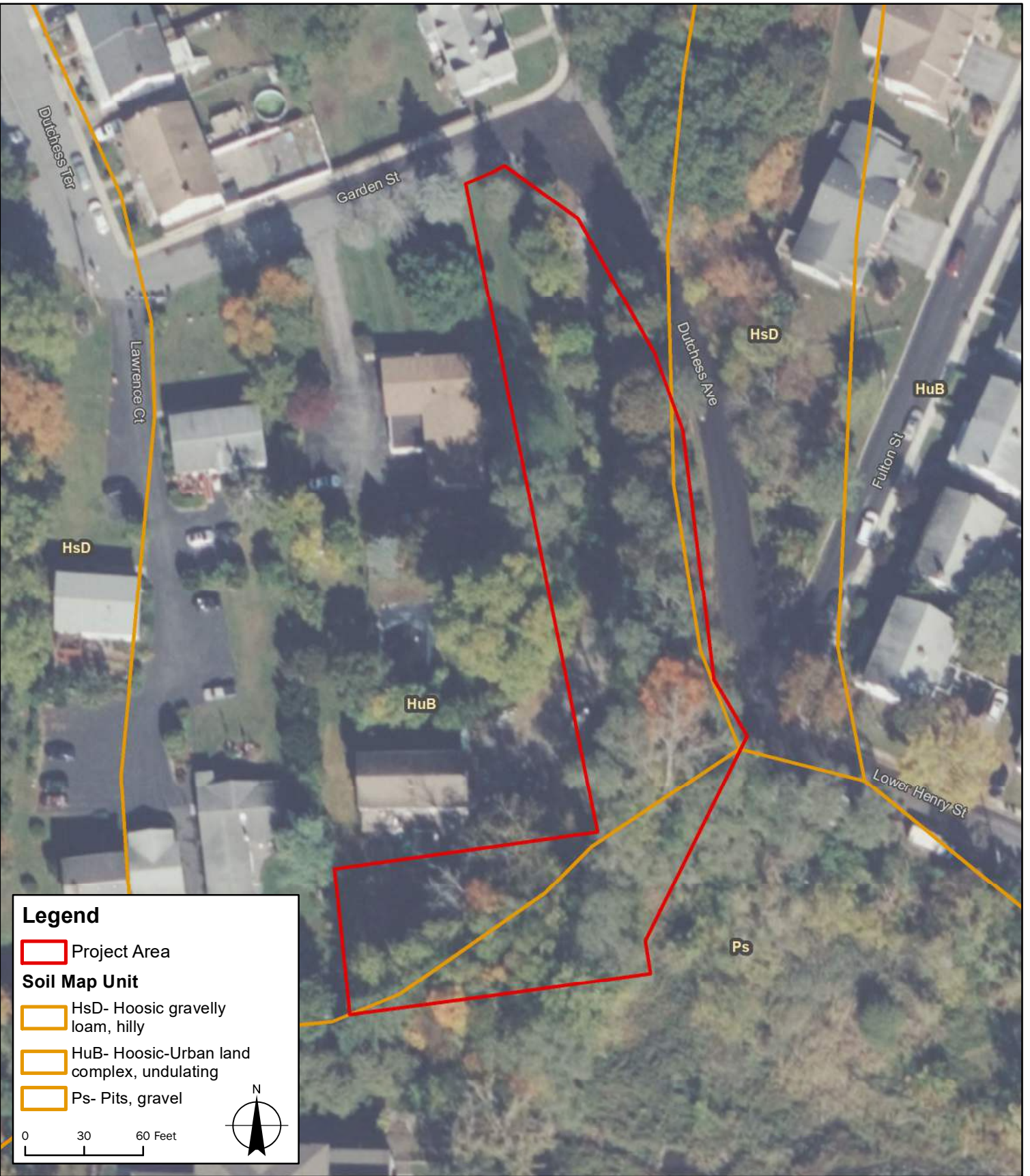
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Dutchess Co., New York

Dutchess Avenue
Multifamily

LaBella Project No: 2230010
Date: 2/7/2023

Land Use
Map

FIGURE 3



Legend

Project Area

Soil Map Unit

HsD- Hoosic gravelly loam, hilly

HuB- Hoosic-Urban land complex, undulating

Ps- Pits, gravel

0 30 60 Feet

- Sources:
1. Project Area: LaBella 2022
 2. Soil Map Unit: USDA/NRCS 2021
 3. Streets: NYS GIS Program Office 2022
 4. Basemap: Bing Maps

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**Soils
Map**

FIGURE 4



Legend

Floodzones

-  Zone A (1% Annual Chance Flood Hazard)
-  Zone AE (1% Annual Chance Flood Hazard)
-  Zone X (0.2% Annual Chance Flood Hazard)



Project



NYSDEC Stream*



NYSDEC Wetland*



USFWS NWI Wetland*

*Note: There are no NYSDEC Streams, NYSDEC Wetlands, and USFWS NWI Wetlands within the Project Area.

0 50 100 Feet



- Sources:
1. Project Area: LaBella 2022; Regrid 2021
 2. NYSDEC Streams: NYSDEC 2021
 3. NYSDEC Wetlands: NYSDEC 2006
 4. NWI Wetlands: USFWS 2022
 5. Flood Zones: FEMA 2021
 6. Streets: NYS GIS Program Office 2022
 7. Basemap: Bing Maps



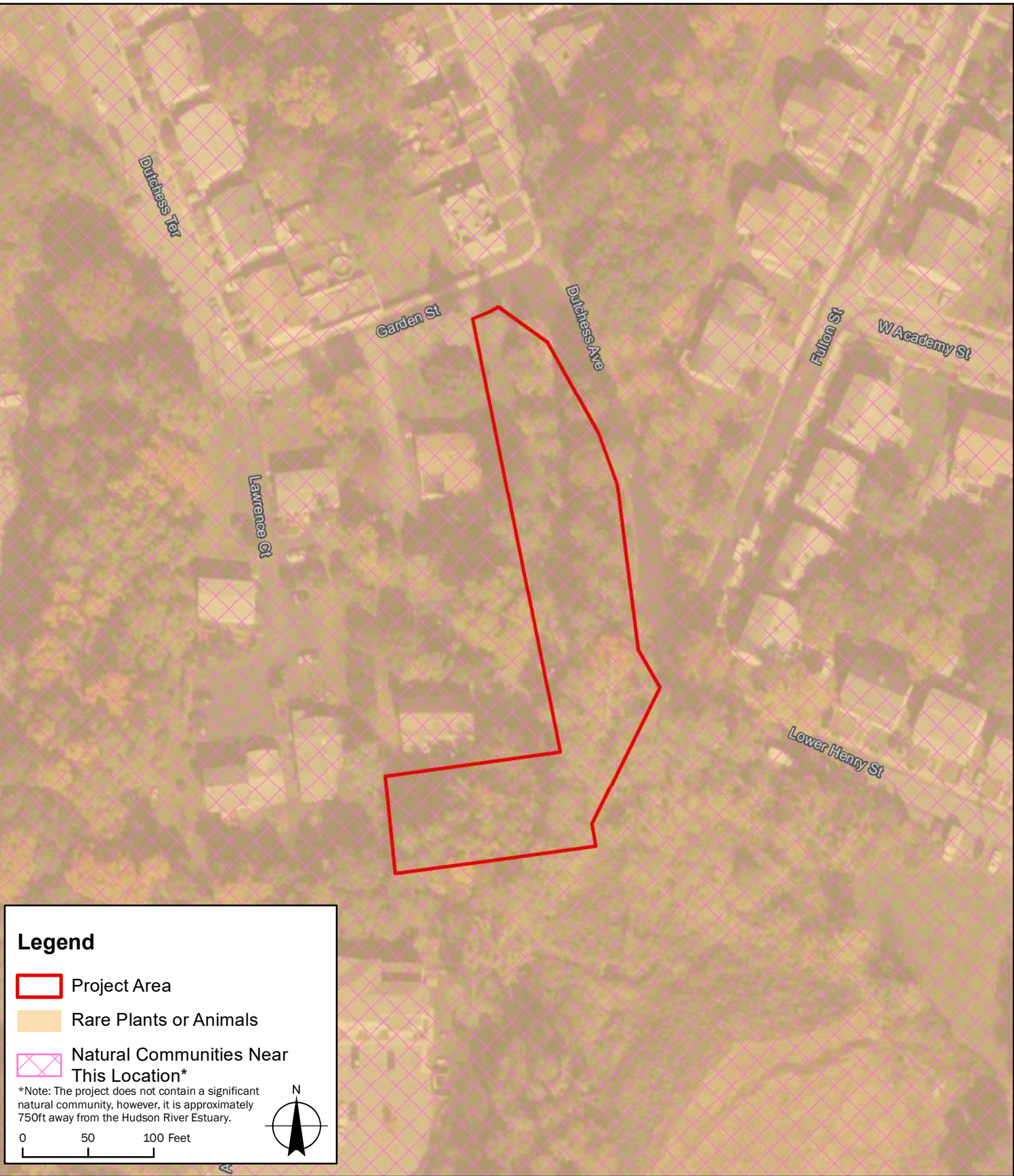
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**Wetland, Stream,
and Floodplain
Map**

FIGURE 5

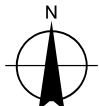


Legend

-  Project Area
-  Rare Plants or Animals
-  Natural Communities Near This Location*

*Note: The project does not contain a significant natural community, however, it is approximately 750ft away from the Hudson River Estuary.

0 50 100 Feet



- Sources:
1. Project Area: LaBella 2022
 2. Rare Plants or Animals and Significant Natural Communities: NYSDEC Environmental Resource Mapper (ERM) 2022
 3. NYSDEC Wetlands: NYSDEC 2006
 4. Streets: NYS GIS Program Office 2022
 5. Basemap: Bing Maps



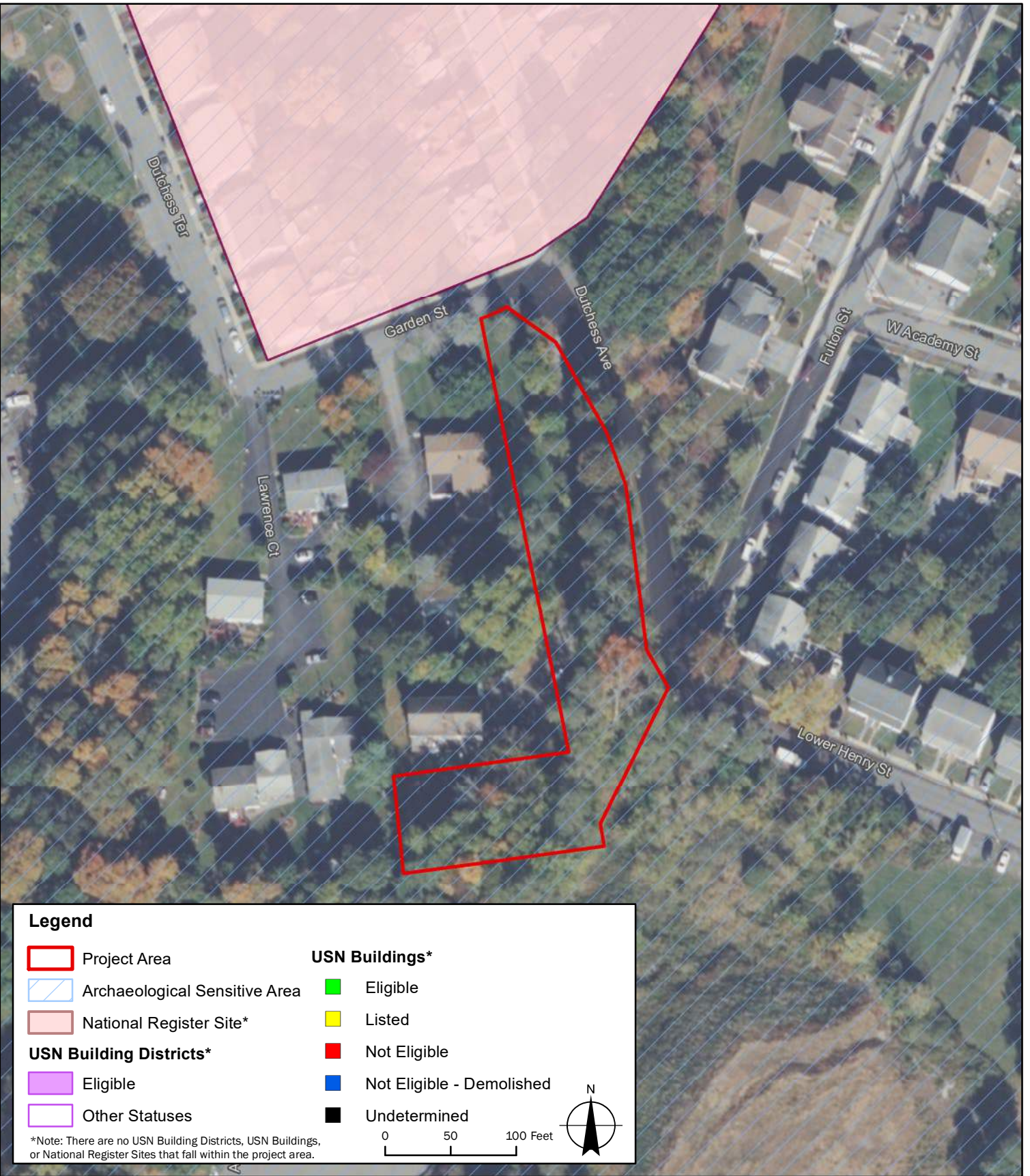
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LaBella Project No: 2230010
Date: 2/7/2023

**NYSDEC
Environmental
Resource Map**

FIGURE 6



Legend

	Project Area	USN Buildings*		Eligible
	Archaeological Sensitive Area		Listed	
	National Register Site*		Not Eligible	
USN Building Districts*			Not Eligible - Demolished	
	Eligible		Undetermined	
	Other Statuses			

*Note: There are no USN Building Districts, USN Buildings, or National Register Sites that fall within the project area.

0 50 100 Feet

- Sources:
1. Project Area: LaBella, 2022
 2. Archaeologically Sensitive Areas/National Register Sites: NYSOPRHP Cultural Resource Information System (CRIS), 2022
 3. Streets: NYS GIS Program Office, 2022
 4. Basemap: Bing Maps

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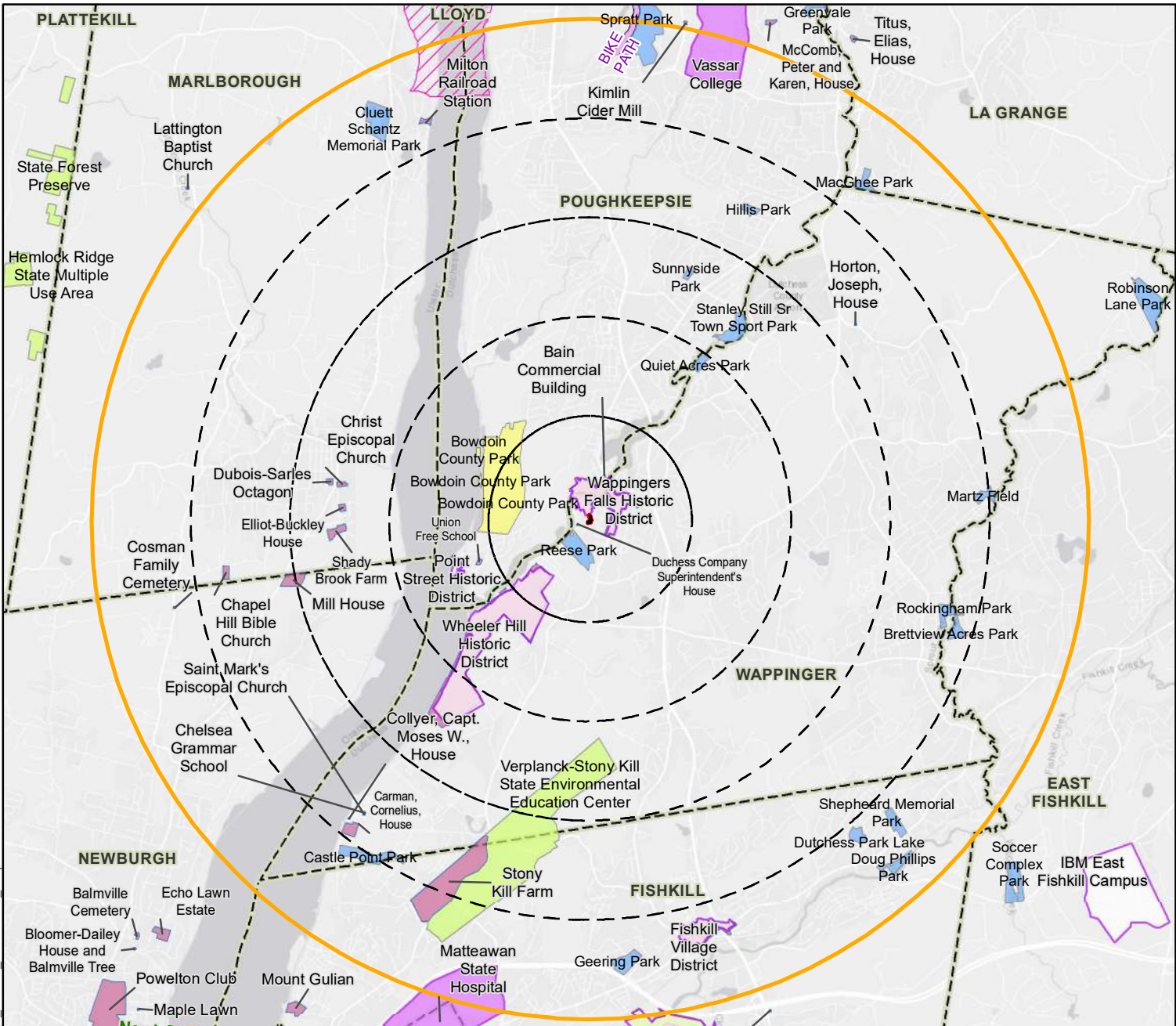
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**NYSOPRHP
Cultural Resource
Information System
(CRIS) Map**

FIGURE 7



Project Area	Scenic Areas of Statewide Significance	State Parks And Historic Sites	USN Buildings*
5-Mile Buffer of Project Area	State Forest Land	State And National Register Listed Site	Eligible
1-Mile Buffers of Project Area	Federal Recreation	USN Building Districts	Listed
NYS Scenic Byway	State Recreation	Eligible	Not Eligible - Demolished
Scenic Trail	County Recreation	Other Statuses	Not Eligible
	Municipal Recreation		Undetermined

0 1 2 Miles

- Sources:
1. Project Area: LaBella 2022
 2. Streets: NYS GIS Program Office 2022
 3. Scenic Resources: NYS GIS Program Office; NYSDEC; NYSDOT; NYSOPRHP; CRIS 2022
 4. Basemap: Bing

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Multifamily**

LaBella Project No: 2230010
Date: 2/7/2023

**Publicly Accessible
Federal, State, or Local
Scenic or Aesthetic
Resources Map**

FIGURE 8

Note: National and State building districts shown. However, isolated listed and eligible buildings are too many to show at this scale.

Attachment A
United States Fish and Wildlife Service
(USFWS) Informal Species List

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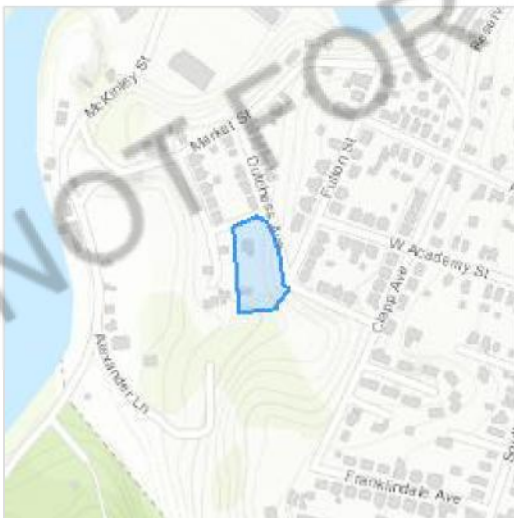
IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

Location

Dutchess County, New York



Local office

New York Ecological Services Field Office

☎ (607) 753-9334

📠 (607) 753-9699

✉ fw5es_nyfo@fws.gov

3817 Luker Road
Cortland, NY 13045-9385

NOT FOR CONSULTATION

Endangered species

This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

1. Draw the project location and click CONTINUE.
2. Click DEFINE PROJECT.
3. Log in (if directed to do so).
4. Provide a name and description for your project.
5. Click REQUEST SPECIES LIST.

Listed species¹ and their critical habitats are managed by the [Ecological Services Program](#) of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries²).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact [NOAA Fisheries](#) for [species under their jurisdiction](#).

-
1. Species listed under the [Endangered Species Act](#) are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the [listing status page](#) for more information. IPaC only shows species that are regulated by USFWS (see FAQ).

2. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

The following species are potentially affected by activities in this location:

Mammals

NAME	STATUS
Indiana Bat <i>Myotis sodalis</i> Wherever found There is final critical habitat for this species. Your location does not overlap the critical habitat. https://ecos.fws.gov/ecp/species/5949	Endangered
Northern Long-eared Bat <i>Myotis septentrionalis</i> Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/9045	Endangered

Insects

NAME	STATUS
Monarch Butterfly <i>Danaus plexippus</i> Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/9743	Candidate

Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

There are no critical habitats at this location.

Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act¹ and the Bald and Golden Eagle Protection Act².

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described [below](#).

1. The [Migratory Birds Treaty Act](#) of 1918.
2. The [Bald and Golden Eagle Protection Act](#) of 1940.

Additional information can be found using the following links:

- Birds of Conservation Concern <https://www.fws.gov/program/migratory-birds/species>
- Measures for avoiding and minimizing impacts to birds <https://www.fws.gov/library/collections/avoiding-and-minimizing-incident-take-migratory-birds>
- Nationwide conservation measures for birds <https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf>

The birds listed below are birds of particular concern either because they occur on the [USFWS Birds of Conservation Concern \(BCC\)](#) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ [below](#). This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the [E-bird data mapping tool](#) (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found [below](#).

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, click on the PROBABILITY OF PRESENCE SUMMARY at the top of your list to see when these birds are most likely to be present and breeding in your project area.

NAME	BREEDING SEASON
Bald Eagle <i>Haliaeetus leucocephalus</i> This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds Dec 1 to Aug 31

<p>Belted Kingfisher <i>Megasceryle alcyon</i> This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA</p>	<p>Breeds Mar 15 to Jul 25</p>
<p>Black-billed Cuckoo <i>Coccyzus erythrophthalmus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9399</p>	<p>Breeds May 15 to Oct 10</p>
<p>Blue-winged Warbler <i>Vermivora pinus</i> This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA</p>	<p>Breeds May 1 to Jun 30</p>
<p>Canada Warbler <i>Cardellina canadensis</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.</p>	<p>Breeds May 20 to Aug 10</p>
<p>Cerulean Warbler <i>Dendroica cerulea</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/2974</p>	<p>Breeds Apr 20 to Jul 20</p>
<p>Chimney Swift <i>Chaetura pelagica</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.</p>	<p>Breeds Mar 15 to Aug 25</p>
<p>Evening Grosbeak <i>Coccothraustes vespertinus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.</p>	<p>Breeds May 15 to Aug 10</p>
<p>Prairie Warbler <i>Dendroica discolor</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.</p>	<p>Breeds May 1 to Jul 31</p>
<p>Red-headed Woodpecker <i>Melanerpes erythrocephalus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.</p>	<p>Breeds May 10 to Sep 10</p>
<p>Wood Thrush <i>Hyllocichla mustelina</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.</p>	<p>Breeds May 10 to Aug 31</p>

Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read and understand the FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is $0.25/0.25 = 1$; at week 20 it is $0.05/0.25 = 0.2$.
3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

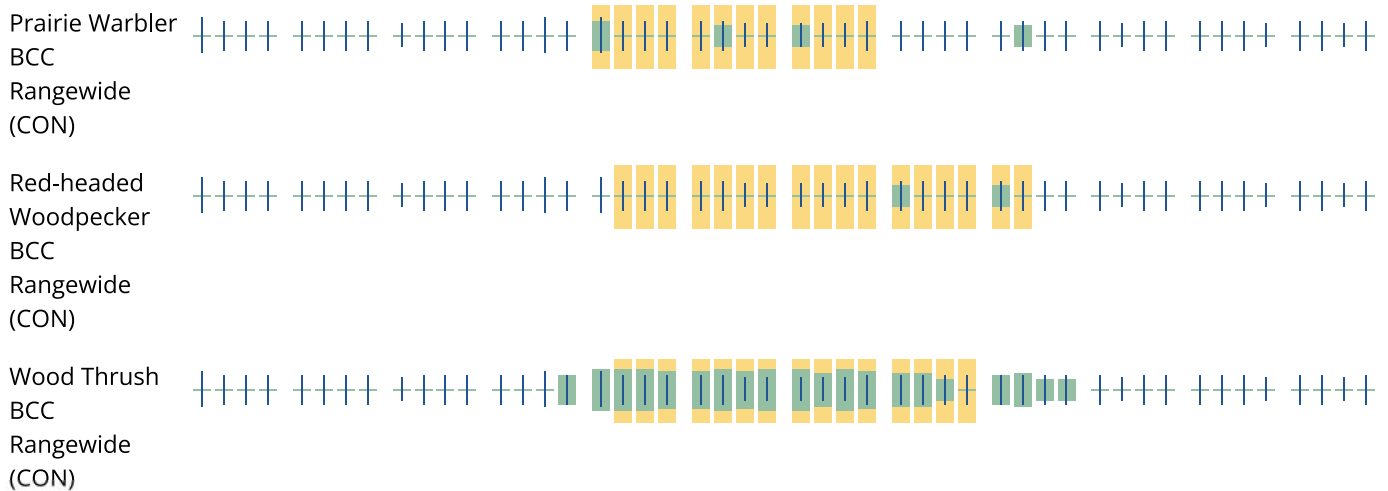
To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

Breeding Season (■)

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort (|)

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.



Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

[Nationwide Conservation Measures](#) describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. [Additional measures](#) or [permits](#) may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the list of migratory birds that potentially occur in my specified location?

The Migratory Bird Resource List is comprised of USFWS [Birds of Conservation Concern \(BCC\)](#) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the [Avian Knowledge Network \(AKN\)](#). The AKN data is based on a growing collection of [survey, banding, and citizen science datasets](#) and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle ([Eagle Act](#) requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the [Rapid Avian Information Locator \(RAIL\) Tool](#).

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the [Avian Knowledge Network \(AKN\)](#). This data is derived from a growing collection of [survey, banding, and citizen science datasets](#).

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go to the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering or migrating in my area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may query your location using the [RAIL Tool](#) and look at the range maps provided for birds in your area at the bottom of the profiles provided for each bird in your results. If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are [Birds of Conservation Concern](#) (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
2. "BCC - BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the [Eagle Act](#) requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the [Northeast Ocean Data Portal](#). The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the [NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf](#) project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the [Diving Bird Study](#) and the [nanotag studies](#) or contact [Caleb Spiegel](#) or [Pam Loring](#).

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to [obtain a permit](#) to avoid violating the Eagle Act should such impacts occur.

Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

Coastal Barrier Resources System

Projects within the [John H. Chafee Coastal Barrier Resources System](#) (CBRS) may be subject to the restrictions on Federal expenditures and financial assistance and the consultation requirements of the Coastal Barrier Resources Act (CBRA) (16 U.S.C. 3501 et seq.). For more information, please contact the local [Ecological Services Field Office](#) or visit the [CBRA Consultations website](#). The CBRA website provides tools such as a flow chart to help determine whether consultation is required and a template to facilitate the consultation process.

There are no known coastal barriers at this location.

Data limitations

The CBRS boundaries used in IPaC are representations of the controlling boundaries, which are depicted on the [official CBRS maps](#). The boundaries depicted in this layer are not to be considered authoritative for in/out determinations close to a CBRS boundary (i.e., within the "CBRS Buffer Zone" that appears as a hatched area on either side of the boundary). For projects that are very close to a CBRS boundary but do not clearly intersect a unit, you may contact the Service for an official determination by following the instructions here: <https://www.fws.gov/service/coastal-barrier-resources-system-property-documentation>

Data exclusions

CBRS units extend seaward out to either the 20- or 30-foot bathymetric contour (depending on the location of the unit). The true seaward extent of the units is not shown in the CBRS data, therefore projects in the offshore areas of units (e.g., dredging, breakwaters, offshore wind energy or oil and gas projects) may be subject to CBRA even if they do not intersect the CBRS data. For additional information, please contact CBRA@fws.gov.

Facilities

National Wildlife Refuge lands

Any activity proposed on lands managed by the [National Wildlife Refuge](#) system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

There are no refuge lands at this location.

Fish hatcheries

There are no fish hatcheries at this location.

Wetlands in the National Wetlands Inventory (NWI)

Impacts to [NWI wetlands](#) and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local [U.S. Army Corps of Engineers District](#).

This location did not intersect any wetlands mapped by NWI.

NOTE: This initial screening does **not** replace an on-site delineation to determine whether wetlands occur. Additional information on the NWI data is provided below.

Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tubercid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

Data precautions

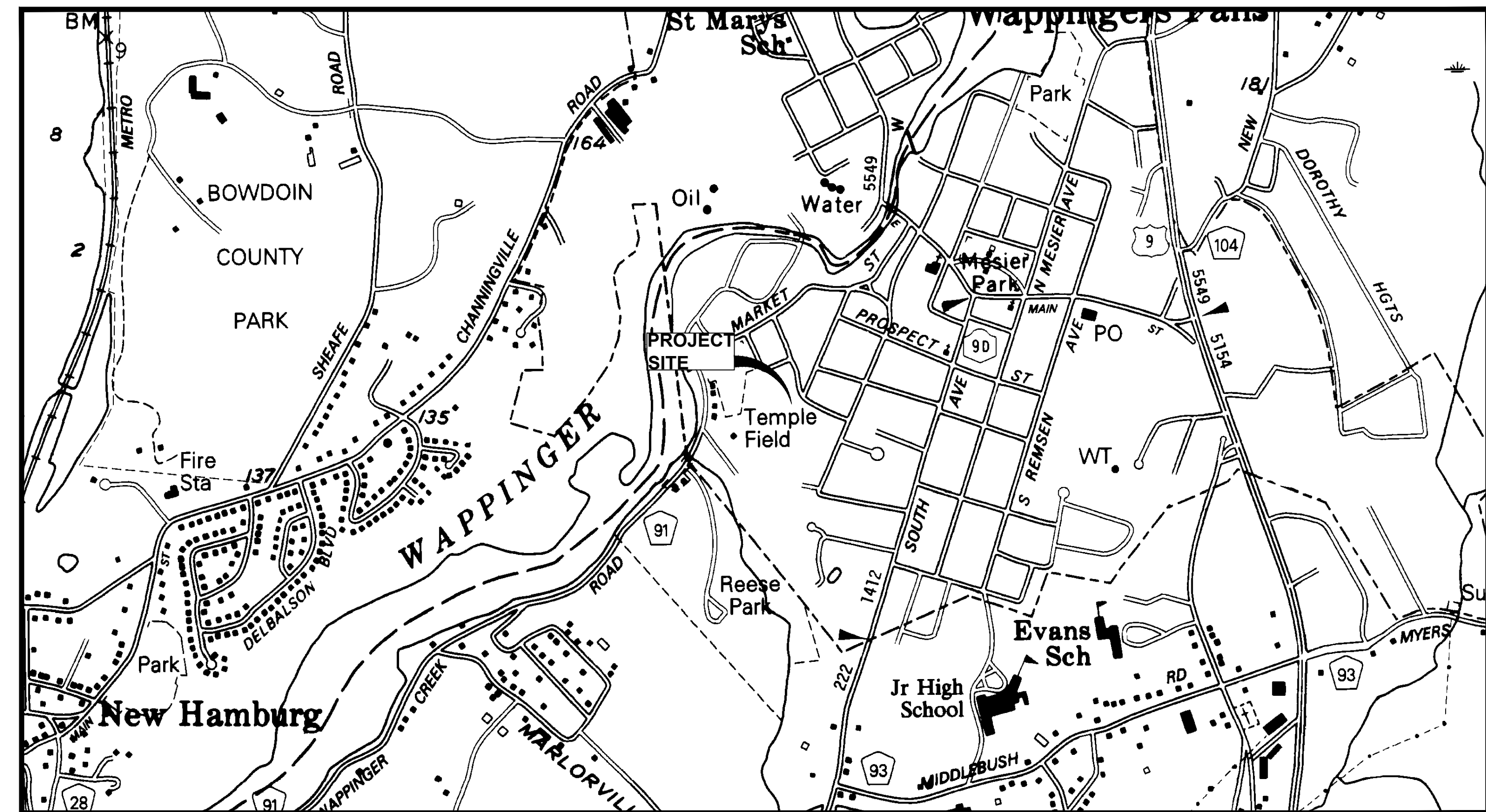
Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate Federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

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2230010 TERRA GROUP 201, LLC

DUTCHESS AVE
VILLAGE OF WAPPINGERS FALLS, NY 12590

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LOCATION MAP
N.T.S.

OWNER / APPLICANT SIGNATURE

THE UNDERSIGNED APPLICANT FOR THE PROPERTY AND THE UNDERSIGNED OWNER OF THE PROPERTY SHOWN HEREON, STATE THAT THEY ARE FAMILIAR WITH THIS MAP, ITS NOTES AND ITS CONTENTS, AND HEREBY CONSENT TO ALL SAID TERMS AND CONDITIONS AS STATED HEREON.

THE APPLICANT AND OWNER UNDERSTAND THEIR OBLIGATION TO THE TOWN TO KEEP THIS SITE AS PER SITE PLAN APPROVAL BY THE TOWN PLANNING BOARD UNTIL A NEW OR REVISED SITE PLAN IS APPROVED FOR THE SITE. THE APPLICANT AND OWNER UNDERSTAND THEIR OBLIGATION TO THE TOWN NOT TO OCCUPY THE PREMISES BEFORE A CO IS ISSUED BY THE TOWN BUILDING DEPARTMENT.

APPLICANT _____ DATE _____

OWNER _____ DATE _____

DUTCHESS COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH APPROVAL

FOR SHEETS G001, G002, C120, C140, AND C560

VILLAGE OF WAPPINGERS FALLS PLANNING BOARD

FINAL APPROVAL DATE: _____

PB CHAIR: _____ DATE: _____

WITNESS: _____

TERRA GROUP 201, LLC.
395 ROUTE 212
SAUGERTIES, NY 12477
PROJECT NO: 2230010
DECEMBER 7TH, 2022
LAST REVISED FEBRUARY 8TH, 2023

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ISSUED FOR REVIEW
DECEMBER 7TH, 2022
LAST REVISED FEBRUARY 8TH, 2023

TERRA GROUP 201, LLC.
PROJECT NO: 2230010

TERRA GROUP 201 LLC
DUTCHESS AVE
VILLAGE OF WAPPINGERS FALLS, NY 12590

DEMOLITION NOTES:

- REFER TO REQUIREMENTS OUTLINED IN THE EROSION & SEDIMENTS CONTROL PLANS & NOTES PRIOR TO COMMENCEMENT OF WORK.
- BUILDING/STRUCTURE TO BE DEMOLISHED ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE NOT TO BE DEMOLISHED AS PART OF THIS WORK. PRIOR TO DEMOLISHING ANY BUILDINGS/STRUCTURES, THE CONTRACTOR SHALL PERFORM A PRE-DEMOLITION SURVEY IN ACCORDANCE WITH STATE AND FEDERAL REGULATIONS GOVERNING THE DISPOSAL OF SOLID WASTE. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND APPROVALS BY THE AUTHORITY HAVING JURISDICTION.
- CONFORM TO APPLICABLE CODE FOR DEMOLITION OF STRUCTURES, SAFETY OF ADJACENT STRUCTURES, DUST CONTROL, RUNOFF CONTROL, AND HAULING, DISPOSAL AND STORAGE OF DEBRIS.
- PROVIDE, ERECT, AND MAINTAIN TEMPORARY BARRIERS AND SECURITY DEVICES.
- MAINTAIN EXISTING UTILITIES TO REMAIN IN SERVICE AND PROTECT THEM AGAINST DAMAGE DURING SELECTIVE DEMOLITION OPERATIONS. DO NOT INTERRUPT EXISTING UTILITIES SERVING OPERATING FACILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY OWNER AND AUTHORITIES HAVING JURISDICTION.
- NOTIFY ADJACENT OWNERS OF WORK THAT MAY AFFECT THEIR PROPERTY, POTENTIAL NOISE, UTILITY OUTAGE, OR DISRUPTION. COORDINATE WITH OWNER.
- PREVENT MOVEMENT OR SETTLEMENT OF ADJACENT STRUCTURES. PROVIDE BRACING AND SHORING.
- LOCATE AND IDENTIFY ALL EXISTING UTILITIES WITHIN THE CONSTRUCTION AREA. DISCONNECT AND SEAL OR CAP OFF UTILITY SERVICES THAT WILL BE AFFECTED BY THIS PROJECT. NOTIFY AFFECTED UTILITY COMPANIES BEFORE STAYING WORK AND COMPLY WITH THEIR REQUIREMENTS. VERIFY THAT UTILITIES HAVE BEEN DISCONNECTED AND CAPPED.
- DEMOLISH AND REMOVE COMPONENTS IN AN ORDERLY AND CAREFUL MANNER.
- PROTECT EXISTING UTILITIES THAT ARE NOT TO BE DEMOLISHED.
- CONDUCT OPERATIONS WITH MINIMAL INTERFERENCE TO PUBLIC OR PRIVATE ACCESSES.
- MAINTAIN EGRESS AND ACCESS AT ALL TIMES. DO NOT CLOSE OR OBSTRUCT ROADWAYS, OR SIDEWALKS WITHOUT PERMITS. COORDINATE W/ AUTHORITY HAVING JURISDICTION.
- CONDUCT OPERATIONS INDICATIVELY IF ADJACENT STRUCTURES APPEAR TO BE IN DANGER. NOTIFY AUTHORITY HAVING JURISDICTION.
- ROUGH GRADE AND COMPACT AREAS AFFECTED BY DEMOLITION TO MAINTAIN SITE GRADES AND CONTOURS.
- VERIFY EXISTING CONDITIONS AND CORRELATE WITH REQUIREMENTS INDICATED ON DEMOLITION PLAN TO DETERMINE EXTENT OF SELECTIVE DEMOLITION REQUIRED.
- CONDUCT DEMOLITION OPERATIONS AND REMOVE DEBRIS TO ENSURE MINIMUM INTERFERENCE WITH SELECTIVE DEMOLITION OPERATIONS.
- CONDUCT DEMOLITION OPERATIONS TO PREVENT INJURY TO PEOPLE AND DAMAGE TO ADJACENT BUILDINGS AND FACILITIES TO REMAIN. ENSURE SAFE PASSAGE OF PEOPLE AROUND SELECTIVE DEMOLITION AREA.
- USE WATER MUST TEMPORARY ENCLOSURES AND OTHER SUITABLE METHODS TO LIMIT THE SPREAD OF DUST AND DIRT, COMPLY WITH GOVERNING ENVIRONMENTAL PROTECTION REGULATIONS. DO NOT USE WATER WHEN IT MAY DAMAGE EXISTING CONSTRUCTION, SUCH AS CAUSING ICING, FLOODING, AND TRANSPORTING POLLUTANTS.
- REMOVE AND TRANSPORT DEBRIS IN A MANNER THAT WILL PREVENT SPILLAGE ON ADJACENT SURFACES AND AREAS.
- CLEAN ADJACENT STRUCTURES AND IMPROVEMENTS OF DUST, DIRT AND DEBRIS CAUSED BY SELECTIVE DEMOLITION OPERATIONS. RETURN ADJACENT AREAS TO CONDITION EXISTING BEFORE START OF SELECTIVE DEMOLITION.
- PROMPTLY DISPOSE OF DEMOLISHED MATERIALS. ALL DEBRIS RESULTING FROM DEMOLITION ACTIVITIES SHALL BE TRANSPORTED OFF-SITE AT A FACILITY APPROVED TO RECEIVE THE DEBRIS. DO NOT ALLOW DEMOLISHED MATERIALS TO ACCUMULATE ON-SITE. DO NOT BURN DEMOLISHED MATERIALS ON-SITE.

SITE PLAN NOTES:

GENERAL CONSTRUCTION NOTES:

- THE CONTRACTOR SHALL PROTECT EXISTING PROPERTY LINE MONUMENTATION. ANY MONUMENTATION DISTURBED OR DESTROYED, AS JUDGED BY THE ENGINEER OR OWNER, SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE AND UNDER THE SUPERVISION OF A NEW YORK STATE LICENSED LAND SURVEYOR.
- ALL PAVEMENT RESTORATION SHALL MEET AND MATCH EXISTING GRADES.
- ALL SAWCUT LINES SHALL BE PARALLEL AND CURVILINEAR TO EXISTING OR PROPOSED CURBING AND SHALL BE A CONSTANT DISTANCE OF 18" MIN AWAY.
- ALL ARCHITECTURAL DETAILS TO BE PLANNED FOR BOARD REVIEW.
- NOTIFY ENGINEER 48 HOURS PRIOR TO INITIALIZATION OF ANY WORK ON SITE.
- THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY CONDITIONS THAT VARY FROM THOSE SHOWN ON THE PLANS. THE CONTRACTOR'S WORK SHALL NOT VARY FROM THE PLANS WITHOUT PRIOR REVIEW FROM THE ENGINEER.
- CONTRACTOR IS RESPONSIBLE FOR EMPLOYING AND MAINTAINING ALL TRAFFIC CONTROL AND SAFETY MEASURES DURING CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR PROPERLY & SAFELY MAINTAINING AREA BETWEEN ALL ADJOINING PROPERTIES.
- NO WORK, STORAGE OR TRESPASS SHALL BE PERMITTED BEYOND THE SITE PROPERTY LINES OR PUBLIC RIGHT-OF-WAY.
- ALL EXISTING LAWN AREAS, CURBING, PAVING, SIDEWALKS, CULVERTS OR OTHER PUBLIC OR PRIVATE PROPERTY DAMAGED BY TRENCING OR EXCAVATION OPERATIONS SHALL BE REPLACED OR REPAIRED TO A CONDITION EQUAL TO EXISTING, AS DESCRIBED IN CONTRACT DOCUMENTS OR AS ORDERED BY ENGINEER (AEG). MAILBOXES, SIGN POSTS, ETC SHALL BE PROTECTED OR REMOVED AND REPLACED PROMPTLY AS THEY WERE BEFORE BEING DISTURBED. REMOVE AND REPLACE AFFECTED CURBING AND SIDEWALK TO NEAREST JOINT. REMOVE PAVEMENT AND REPLACE TO SAW CUT LINE. SAW CUT LINE IN STRAIGHT LINE TO POINT NEEDED TO BLEND GRADE, REMOVE LAWN AND REPLACE TO MINIMUM LIMIT OF EXCAVATION.
- IF PREVIOUSLY UNKNOWN CULTURAL, ARCHEOLOGICAL, OR HISTORIC REMAINS OR ARTIFACTS ARE DISCOVERED IN THE COURSE OF CONSTRUCTION OF THIS PROJECT, THE PROJECT SPONSORS SHALL SUSPEND CONSTRUCTION OPERATIONS IN THE PERTINENT AREA AND SHALL NOTIFY THE PROJECT ENGINEER. CONSTRUCTION IN THAT AREA SHALL RESUME ONLY AFTER COMPLETION OF FEDERAL, TRIBAL, AND STATE COORDINATION TO DETERMINE WHETHER PROTECTION OR RECOVERY OF THE REMAINS IS WARRANTED, OR WHETHER THE SITE IS ELIGIBLE FOR LISTING IN THE NATIONAL REGISTER OF HISTORIC PLACES.
- BUILDING TO BE EQUIPPED WITH SUB SLAB DEPRESSURIZATION SYSTEM.

LAYOUT NOTES:

- BUILDING DIMENSIONS TO BE TAKEN FROM ARCHITECTURAL BUILDING PLANS. NOTIFY THE ENGINEER OF ANY DEVIATION FROM CONDITIONS SHOWN ON THIS PLAN.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL FIELD LAYOUT. THE CONTRACTOR SHALL TAKE TIES TO ALL UTILITY CONNECTIONS AND PROVIDE MARKED-UP AS BUILT PLANS FOR ALL UTILITIES SHOWING TIES TO CONNECTIONS, BENDS, VALVES, LENGTHS OF LINES AND INVERTS. AS-BUILT PLANS SHALL BE REVIEWED BY THE OWNER AND THE ENGINEER AND THE CONTRACTOR SHALL PROVIDE ANY CORRECTION OR ADDITIONS TO THE SATISFACTION OF THE OWNER AND THE ENGINEER BEFORE UTILITIES WILL BE ACCEPTED.

PAVING NOTES:

- NO VEHICULAR TRAFFIC OF ANY SORT SHALL BE PERMITTED ON THE SURFACE OF SUBBASE COURSE MATERIAL ONCE IT HAS BEEN FINE GRADED, COMPACTED, AND IS READY FOR PAVING. SUBBASE MATERIAL SO PREPARED FOR PAVING SHALL BE PAVED WITHIN THREE DAYS OF PREPARATION.
- SUBBASE MATERIAL AND THE VARIOUS ASPHALT CONCRETE MATERIALS CALLED FOR IN THESE DRAWINGS SHALL CONFORM WITH THE REFERENCED SECTION OF THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, DATED "LATEST EDITIONS". CONSTRUCTION SHALL BE AS FURTHER SET FORTH IN THOSE SPECIFICATIONS AND AS OTHERWISE PROVIDED FOR IN THESE DRAWINGS.
- PLACE ASPHALT CONCRETE MIXTURE ON PREPARED SURFACE, SPREAD AND STRIKE-OFF USING A SELF-PROPULSED PAVING MACHINE, WITH VIBRATING SCREED. PLACEMENT IN INACCESSIBLE AND SMALL AREAS MAY BE BY HAND.
- PROVIDE JOINTS BETWEEN OLD AND NEW PAVEMENTS OR BETWEEN SUCCESSIVE DAY'S WORK.
- TACK COAT WHEN SPECIFIED OR CALLED OUT ON THE DRAWINGS OR REQUIRED BY THE REFERENCED SPECIFICATION SHALL CONFORM WITH THE FOLLOWING:
 - TACK COAT SHALL MEET THE MATERIAL REQUIREMENTS OF 702-90 ASPHALT EMULSION FOR TACK COAT OF THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, DATED "LATEST EDITION". SHALL BE APPLIED IN ACCORDANCE WITH SECTION 407 - TACK COAT SHALL BE IN ACCORDANCE WITH THOSE SPECIFICATIONS AND AS OTHERWISE PROVIDED FOR IN THESE DRAWINGS.
 - REMOVE LOOSE AND FOREIGN MATERIAL FROM ASPHALT SURFACE BEFORE PAVING NEXT COURSE. USE POWER BROOMS, BLOWERS OR HAND BROOM.
 - APPLY TACK COAT TO ASPHALT PAVEMENT SURFACES & AND SURFACES OF CURBS, GUTTERS, MANHOLES, AND OTHER STRUCTURES PROJECTING INTO OR ABUTTING PAVEMENT. DRY TO A "TACKY" CONSISTENCY BEFORE PAVING.
 - TACK COAT ENTIRE VERTICAL SURFACE OF ABUTTING EXISTING PAVEMENT.
- AFTER COMPLETION OF PAVING AND SURFACING OPERATIONS, CLEAN SURFACES OF EXCESS OR SPILLED ASPHALT, GRAVEL OR STONE MATERIALS TO THE SATISFACTION OF THE ENGINEER.

GRADING NOTES:

- PRIOR TO SITE DISTURBANCE, CONTRACTOR TO INSTALL EROSION & SEDIMENT CONTROL MEASURES.
- IF ROCK IS ENCOUNTERED DURING CONSTRUCTION & REMOVAL BY BLASTING IS REQUIRED, THE CONTRACTOR SHALL OBTAIN ALL NECESSARY APPROVALS AND PERMITS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
- ALL BLASTING OPERATIONS WILL ADHERE TO NEW YORK STATE AND LOCAL AUTHORITY ORDINANCES GOVERNING THE USE OF EXPLOSIVES. THE STATE REGULATIONS ARE CONTAINED IN 12 NYCRR 39 AND INDUSTRIAL CODE RULE 75.3.
- STRIP ALL TOPSOIL PRIOR TO COMMENCING EARTHWORK OPERATIONS. TOPSOIL MAY BE STORED AND REUSED IN LAWN AND PLANTING AREAS ONLY. TOPSOIL AND SEED ALL AREAS DISTURBED BY CONSTRUCTION THAT ARE TO REMAIN GREEN.
- BOX ALL TREES AND PLANT ALL SHRUBS AND HEDGES BEFORE PLAING EARTH AGAINST OR NEAR THEM. ORNAMENTAL TREES, SHRUBS AND HEDGES WHICH MUST BE REMOVED DURING CONSTRUCTION SHALL BE HEALED IN AND RE-PLAUSED IN AS GOOD A CONDITION AS THEY WERE BEFORE THEIR REMOVAL. ANY DAMAGED TREES, SHRUBS, AND/OR HEDGES SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- ALL EARTHWORK SHALL BE SMOOTHLY AND EVENLY BLENDED INTO EXISTING CONDITIONS. NO WORK, STORAGE OR TRAILS SHALL BE PERMITTED BEYOND THE BOUNDARIES OF ANY EASEMENT OR PROPERTY LINE.
- REMOVE ALL VEGETATION, TREES, STUMPS, GRASSES, ORGANIC SOILS, DEBRIS AND DELETERIOUS MATERIALS WITHIN THE AREAS SLATED FOR CONSTRUCTION.
- IF PREVIOUSLY UNKNOWN CULTURAL, ARCHEOLOGICAL, OR HISTORIC REMAINS OR ARTIFACTS ARE DISCOVERED IN THE COURSE OF CONSTRUCTION OF THIS PROJECT, THE PROJECT SPONSORS SHALL SUSPEND CONSTRUCTION OPERATIONS IN THE PERTINENT AREA AND SHALL NOTIFY THE PROJECT ENGINEER. CONSTRUCTION IN THAT AREA SHALL RESUME ONLY AFTER COMPLETION OF FEDERAL, TRIBAL, AND STATE COORDINATION TO DETERMINE WHETHER PROTECTION OR RECOVERY OF THE REMAINS IS WARRANTED, OR WHETHER THE SITE IS ELIGIBLE FOR LISTING IN THE NATIONAL REGISTER OF HISTORIC PLACES.
- IT IS THE INTENT OF THIS PLAN FOR ALL SITE GRADING TO DRAIN & NO PONDING OCCURS. MINIMUM SLOPE OF OWN CONTRACTOR SHALL COMPLY WITH ALL REQUIRED PERMITS AND ASSOCIATED CONDITIONS.
- CONTRACTOR SHALL COORDINATE WITH ENGINEER FOR ANY DEVIATIONS OR AREA ON THE PLAN WHERE THE SITE DOES NOT MEET THESE REQUIREMENT.

UTILITY PLAN NOTES:

GENERAL CONSTRUCTION NOTES:

- ALL UNDERGROUND UTILITIES ARE SHOWN IN THEIR RELATIVE POSITION AND ARE FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR TO VERIFY THEIR ACTUAL LOCATION IN THE FIELD PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- ANY CONDITION ENCOUNTERED IN THE FIELD DIFFERING FROM THOSE SHOWN HEREON, SHALL BE REPORTED TO COORDINATE WITH OWNER FOR ANY CONNECTIONS.
- SEWER MAINS IN RELATION TO WATER MAINS: WHERE POSSIBLE, SEWERS SHALL BE LAID AT LEAST 10 (TEN) FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED WATER MAIN. VERTICAL SEPARATION SHALL BE MAINTAINED TO PROVIDE 18 (EIGHTEEN) INCHES BETWEEN TOP OF SEWER AND BOTTOM OF THE WATER MAIN AT ALL CROSSINGS. WHEN NOT POSSIBLE TO OBTAIN THE PROPER VERTICAL SEPARATION, SEWER PIPE SHALL BE PRESSURE RATED AND TESTED TO 150psi, 10 (TEN) FEET ON EACH SIDE OF THE WATER MAIN BEING CROSSED.
- ALL PROPOSED UTILITIES SHALL TERMINATE 5 FEET FROM ANY PROPOSED BUILDING FACE. CONTRACTOR TO COORDINATE WITH OWNER FOR ANY CONNECTIONS.
- ALL STORM SEWER SHALL BE SMOOTH INTERIOR HDPE UNLESS OTHERWISE SPECIFIED.
- ALL GRAVITY SANITARY SEWER SHALL BE SDR 35 PVC UNLESS OTHERWISE SPECIFIED.
- ALL WATER PIPE SHALL BE DUCTILE IRON PIPE UNLESS OTHERWISE SPECIFIED.
- CONTRACTOR TO VERIFY STATUS OF ALL UTILITY SERVICES PRIOR TO INTERRUPTION.
- EXPLORATORY EXCAVATIONS SHALL BE PERFORMED BY THE CONTRACTOR AT ALL UTILITY CONNECTION LOCATIONS AND AS NEEDED TO VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING WORK.
- BEFORE CONSTRUCTING LINES TO EXISTING UTILITIES, VERIFY EXISTING UTILITY INVERTS AND NOTIFY THE ENGINEER IF ANY VARIATION FROM THE PLAN IS REQUIRED.
- THE CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES IN SERVICE FOR THE DURATION OF THE WORK.
- THE CONTRACTOR SHALL COMPLY WITH ALL REQUIRED PERMITS AND ASSOCIATED CONDITIONS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR DOWATERING UTILITY TRENCHES AND EXCAVATIONS AND FOR THE MAINTENANCE OF SURFACE DRAINAGE DURING THE COURSE OF THE WORK.
- IF ROCK REMOVAL BY BLASTING IS REQUIRED, THE CONTRACTOR SHALL OBTAIN ALL NECESSARY APPROVALS AND PERMITS REQUIRED BY THE VILLAGE OF WAPPINGERS

ROCK BLASTING NOTES:

BLASTING OF BEDROCK IS NOT ANTICIPATED AT THIS SITE IN ORDER TO COMPLETE THE PROPOSED DEVELOPMENT. HOWEVER, THESE NOTES ARE INCLUDED SHOULD UNFORESEEN CONDITIONS REQUIRE THE NEED FOR BLASTING TO EXCAVATE BEDROCK.

- ALL RECOMMENDED SAFETY REQUIREMENTS AND STANDARDS REFERENCED AND ANY LOCAL RESTRICTIONS SHALL BE APPLIED AS REQUIRED FOR SAFETY, SECURITY, AND SPECIFICALLY RELATED DETAILS FOR BLASTING PROCEDURES. AT ALL TIMES, FEDERAL, STATE, AND LOCAL LAWS AND ORDINANCES WILL BE FOLLOWED CONCERNING THE TRANSPORTATION AND STORAGE OF EXPLOSIVES.
- A MINIMUM OF FOUR (4) WEEKS PRIOR TO COMMENCEMENT OF THE INITIAL BLASTING OPERATIONS, THE CONTRACTOR SHALL NOTIFY THE FOLLOWING AGENCIES AS APPROPRIATE: POLICE AGENCIES, GAS AND ELECTRIC SERVICE COMPANIES, TELEPHONE AND CABLE COMPANIES, TOWN WATER AND SEWER DEPARTMENTS, NYSOCD, AND LOCAL FIRE, RESCUE, AND AMBULANCE SERVICES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE RESULTING FROM THE USE OF EXPLOSIVES. EXPLOSIVES SHALL BE STORED IN A SECURE MANNER IN COMPLIANCE WITH FEDERAL, STATE, AND LOCAL LAWS AND ORDINANCES.
- THE CONTRACTOR SHALL NOTIFY EACH PROPERTY AND UTILITY OWNER HAVING A BUILDING, STRUCTURE, OR OTHER INSTALLATION ABOVE OR BELOW GROUND IN PROXIMITY TO THE SITE OF THE WORK OF HIS INTENTION TO USE EXPLOSIVES TO EXCAVATE TO A DEPTH NOT TO EXCEED THE SPECIFIED LEVELS. THE OWNERS TO TAKE STEPS TO PROTECT THEIR PROPERTY. NOTICE SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR DAMAGE RESULTING FROM HIS BLASTING OPERATIONS.
- THE CONTRACTOR SHALL SCHEDULE AND CONDUCT PRE-BLAST SURVEYS WITH PROPERTY OWNERS LOCATED IN THE AREA POTENTIALLY AFFECTED BY AIRBLAST OVERPRESSURE AND GROUND VIBRATION OR AS REQUIRED.
- THE CONTRACTOR SHALL IMPLEMENT ENGINEERING MEASURES IN ORDER TO MINIMIZE THE POTENTIAL IMPACTS OF DUST, NOISE AND GROUND VIBRATION. BLAST VIBRATION CONTROL WILL BE ACHIEVED BY LIMITING THE CHARGE PER DELAY SO THAT THE PEAK PARTICLE VELOCITY REMAINS BELOW THE SPECIFIED LEVELS.
- A APPROPRIATELY QUALIFIED, LICENSED BLASTING SPECIALIST, WITH EXPERIENCE SHALL BE ON-SITE AND SUPERVISE BLASTING OPERATIONS. AT ALL TIMES, THE BLASTING AREA SHALL BE RESTRICTED TO BLASTING OPERATIONS AND AUTHORIZED PERSONNEL ONLY.
- PROTECTIVE MEASURES INCLUDING INSTALLATION OF SIGNAGE, NOTIFICATION OF NEARBY RESIDENTS, TRAFFIC CONTROL AS NECESSARY ALONG NEARBY ROADS, AUDIBLE PRE-BLAST WARNINGS, AND USE OF BLAST MATS SHALL BE IMPLEMENTED.
- DELIVERY AND TRANSPORT OF EXPLOSIVES FROM THE POWDER MAGAZINES TO THE BLAST AREA WILL BE BY VEHICLES SPECIFICALLY DESIGNED FOR THIS USE BY THE CRITERIA OUTLINED IN THE SAFETY REQUIREMENTS. ONLY AUTHORIZED PERSONS WILL TRANSPORT AND HANDLE THE EXPLOSIVES AS DESIGNATED BY THE ISSUING AUTHORITY OF THOSE LICENSES FOR THIS PURPOSE.
- MONITORING OF PEAK PARTICLE VELOCITY (INCHES/SECOND) AND PEAK AIRBLAST OVERPRESSURE (PSI) SHALL BE PERFORMED DURING ALL BLASTS.

SANITARY & SEWER NOTES:

- FLOOR DRAINS, IF CONSTRUCTED, SHALL BE CONNECTED TO THE SANITARY SEWER. FLOOR DRAINS DO NOT INCLUDE FOUNDATION/FOOTER DRAIN: ALL DISCHARGES TO THE SANITARY SEWER SHALL COMPLY WITH THE EFFLUENT LIMITS OF THE LOCAL AND/OR DUTCHESS COUNTY SANITARY CODE.
- SANITARY SEWERS AND APPURTENANCES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF THE VILLAGE. ALL SANITARY SEWER SYSTEM COMPONENTS SHALL BE INSTALLED BY OR UNDER THE SUPERVISION OF A VILLAGE LICENSED PLUMBER IN ACCORDANCE WITH THE VILLAGE PLUMBING CODE.
- MAJOR EARTHWORK SHALL BE COMPLETED PRIOR TO INSTALLATION OF ANY SANITARY SEWER MAINS AND APPURTENANCES. ALL CONNECTING SEWER LINES SHALL BE FLUSHED BEFORE TESTED.
- VILLAGE SANITARY SEWER MAINS ARE TO BE POLYVINYL CHLORIDE (PVC) SDR-21. PROJECT SANITARY LATERALS SHALL BE PVC, SDR-35, UNLESS OTHERWISE NOTED.
- FINAL SEWER COLLECTION SYSTEM LAYOUT IS SUBJECT TO REVIEW, REVISION AND APPROVAL BY THE MUNICIPAL SEWER DEPARTMENT.
- ALL SANITARY PIPE AND/OR MANHOLES SHALL BE A MINIMUM OF TEN (10) HORIZONTAL FEET FROM THE WATER MAIN. SANITARY PIPE SHALL HAVE A MINIMUM 18" SEPARATION FROM ANY WATER MAIN OR WATER SERVICE LINE. IF FOR SOME REASON THIS SEPARATION CANNOT BE ACHIEVED, SANITARY SEWER PIPE IN THE AREA SHALL BE SDR-21 PRESSURE RATED PIPE, AND ONE FULL LENGTH OF WATER MAIN SHALL BE CENTERED UNDER OR OVER THE SEWER. ALL SANITARY SEWER CONSTRUCTION SHALL BE TO SPECIFICATIONS OF THE MUNICIPAL SEWER DEPARTMENT.
- ALL SANITARY TESTING SHALL BE PERFORMED UNDER THE SUPERVISION OF THE PROJECT ENGINEER, AND, CERTIFICATES OF COMPLIANCE WITH THE INSTALLATION SPECIFICATIONS, TEST STANDARDS, APPROVED PLANS OR APPROVED AMENDMENTS SHALL BE PROVIDED TO THE APPROPRIATE SEWER AUTHORITY AS A CONDITION OF APPROVAL FOR OPERATION.
- ALL SANITARY SEWER CONSTRUCTION SHALL BE SUBJECT TO INSPECTION BY THE MUNICIPAL SEWER SUPERINTENDENT PRIOR TO BACKFILLING. PIPE BEDDING AND PIPE ZONE MATERIAL SHALL BE IN ACCORDANCE WITH THIS SHEET, DETAIL 1.
- ALL NEW SANITARY SEWER MANHOLE COVERS SHALL BE MINIMUM NOMINAL 24" DIAMETER CAST IRON AND SHALL READ "SANITARY SEWER". FRAMES SHALL BE 8-INCHES IN HEIGHT.
- INDICATOR TAPE SHALL BE PLACED 12" BELOW FINISHED GRADE DIRECTLY ABOVE ALL SANITARY LINES.
- LOCATION OF SEWER LATERAL CLEAN OUTS ARE TO BE PLACED AS SHOWN ON THE APPROVED SITE PLAN AND NOT TO EXCEED EVERY 75' MEASURED FROM THE SEWER MAIN CONNECTION OR AS DETERMINED BY THE MUNICIPAL SUPERINTENDENT OF SEWERS WHERE LOCATIONS ARE NOT SPECIFICALLY SHOWN.
- EXTERNAL DROP MANHOLES SHALL BE USED FOR SEWERS ENTERING AT AN ELEVATION OF 24 INCHES OR HIGHER AT THE INLET OF A SEWER MANHOLE.

TESTING GRAVITY SEWER SYSTEM:

- CONTRACTOR SHALL INSPECT AND TEST THE INSTALLATIONS AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION WHEN WORK IS READY FOR TESTING. AFTER ALL TESTS HAVE BEEN PERFORMED, EVIDENCE OF COMPLIANCE SHALL BE FORWARDED TO OWNER/ENGINEER AND THE AUTHORITY HAVING JURISDICTION PRIOR TO ACCEPTANCE.
- THE CONTRACTOR SHALL TEST AND INSPECT FOR ALIGNMENT OF ALL SANITARY SEWERS.
- EACH MANHOLE-TO-MANHOLE SECTION SHALL BE REJECTED OR ACCEPTED BASED ONLY ON RESULTS OF ITS OWN INDEPENDENT SECTION TEST AND NOT ON RESULTS OF ANY ONE TEST RUN SIMULTANEOUSLY OVER MORE THAN ONE CONSECUTIVE MANHOLE-TO-MANHOLE SECTION. THE ONLY EXCEPTION ALLOWED: ACCEPTING SEVERAL CONSECUTIVE MANHOLE-TO-MANHOLE SECTIONS BASED ON ONE COMBINED INFILTRATION TEST INDICATING ZERO INFILTRATION.
- LOW PRESSURE AIR TESTING SHALL BE PERFORMED UNDER DIRECTION OF ENGINEER ACCORDING TO ASTM F1417. LOW PRESSURE AIR TEST IS A COMPARISON OF THE MEASURED TIME NECESSARY FOR ONE (1) PSIG PRESSURE DROP TO OCCUR, IF AT ALL, WITH MINIMUM ALLOWABLE TIME FOR THAT PRESSURE DROP TO OCCUR DETERMINED BY METHODS INDICATED IN ASTM F1417. IF THE ONE (1) PSIG PRESSURE DROP OCCURS FASTER THAN ALLOWABLE TIME, SECTION IS UNACCEPTABLE.
- AIR TEST SHALL NOT BE RUN UNTIL SECTION OF LINE TO BE TESTED HAS BEEN CLEANED OF ALL FOREIGN MATERIAL BY FLUSHING AND HAS BEEN VISUALLY INSPECTED AND APPROVED BY THE ENGINEER. CERTAIN PIPE MATERIALS PRODUCE MORE CONSISTENT RESULTS WHEN INTERIOR OF PIPE IS WETTED PRIOR TO TESTING.
- WHERE FLEXIBLE PIPE IS USED, CONTRACTOR SHALL TEST ALL MAINLINE PIPE FOR MAXIMUM ALLOWABLE DEFLECTION OF 5% OF OUTSIDE DIAMETER. DEFLECTION TESTS SHALL BE PERFORMED USING A CIRCULAR STEEL BALL ON SLED 1/16-INCH IN DIAMETER SMALLER THAN ALLOWABLE INSIDE DIAMETER OF FLEXIBLE PIPE WHEN DEFLECTED A MAXIMUM OF 5% OF OUTSIDE DIAMETER. DEFLECTION TESTING OF ANY PIPE SHALL BE DONE NO SOONER THAN 30 DAYS AFTER DATE OF INSTALLATION OF PIPE SECTION UNLESS WRITTEN EXCEPTION.
- SEWERS SHALL BE LAID WITH STRAIGHT ALIGNMENT BETWEEN MANHOLES. STRAIGHT ALIGNMENT SHALL BE CHECKED EITHER USING A LASER BEAM OR LAMPING. TESTING SHALL COMPLY WITH REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
- MANHOLES, WHICH CANNOT BE PROPERLY AIR TESTED, SHOULD BE VISUALLY INSPECTED AND LEAKAGE-TESTED USING INTERNAL OR EXTERNAL HYDROSTATIC PRESSURE. LEAKAGE TESTING SHALL COMPLY WITH REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
- IN AREAS WHERE CONVENTIONAL TESTING IS IMPRACTICAL (I.E. AREAS DESIGNATED BY ENGINEER WHERE EXISTING SERVICES ARE TIED INTO NEW LINE IMMEDIATELY AND ANY BLOCKAGE COULD RESULT IN HEALTH PROBLEMS) NO LINES SHALL BE BACKFILLED UNTIL EACH PIPE SECTION AND CONNECTION IS INSPECTED AND APPROVED.
- WHERE SEWERS ARE CONSTRUCTED OF PRESSURE-RATED PIPE AND INSTALLED WITH LESS THAN 18 INCHES VERTICAL SEPARATION FROM EXISTING OR PROPOSED WATER MAINS, SEWERS SHALL BE HYDROSTATICALLY TESTED AT 150 PSI TO ASSURE WATER TIGHTNESS. HYDROSTATIC ACCEPTANCE TESTS SHALL BE CONDUCTED AS SPECIFIED FOR TESTING WATER MAINS, EXCEPT THAT TESTING MAY BE PERFORMED WITH THE PIPE SECTION PARTIALLY BACK-FILLED.
- IF THE ALLOWABLE RATE OF AIR LEAKAGE IS EXCEEDED, THE CONTRACTOR SHALL LOCATE POINTS OF EXCESSIVE LEAKAGE AND SHALL PROMPTLY CORRECT, REPAIR, AND BRING SYSTEM UP TO THE STANDARD. COSTS OF ALL SUCH REPAIRS AND CORRECTIVE MEASURES, INCLUDING COSTS OF REPEATED TESTS, SHALL BE BORN BY CONTRACTOR. THE SEWER LINE SECTION (INCLUDING MANHOLES AND BUILDING SERVICES) UNDER TEST SHALL NOT BE ACCEPTED UNTIL THESE TEST CRITERIA ARE MET.
- SANITARY MANHOLES SHALL BE VACUUM TESTED IN ACCORDANCE WITH ASTM C1244. A VACUUM OF 10 INCHES OF Hg SHOULD BE DRAWN ON THE MANHOLE AFTER ALL HOLES ARE PLUGGED, AND INLETS/OUTLETS ARE TEMPORARILY PLUGGED AND SECURED. THE TIME IS MEASURED FOR THE VACUUM TO DROP TO 9 INCHES Hg. THE MANHOLE IS ACCEPTED IF THE MEASURED TIME EXCEEDS THE VALUES PRESENTED IN TABLE 1 OF ASTM C1244. IF THE MANHOLE FAILS THE INITIAL TEST, IT SHALL BE REPAIRED BY AN APPROVED METHOD UNTIL A SATISFACTORY TEST IS OBTAINED. MANHOLES, WHICH CANNOT BE PROPERLY AIR TESTED, SHOULD BE VISUALLY INSPECTED AND LEAKAGE-TESTED USING INTERNAL OR EXTERNAL HYDROSTATIC PRESSURE. LEAKAGE TESTING SHALL COMPLY WITH REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.

WATER MAIN DISINFECTION NOTES:

- APPROVED AND TESTED WATER MAIN SHALL BE DISINFECTED PER A.W.W.A. SECTION C651, LATEST EDITION. TABLET OR POWDERED METHOD IS NOT ALLOWED.
- THE CONTRACTOR SHALL NOTIFY THE MUNICIPALITY AND THE PROJECT ENGINEER 48 HOURS PRIOR TO DISINFECTING THE SERVICE LINES.
- DISINFECTED WATER MUST REMAIN IN THE WATER MAINS FOR A MINIMUM OF 24 HOURS BEFORE BEING THOROUGHLY FLUSHED OUT.
- WATER SERVICE LINES SHALL BE DISINFECTED AS PER AWWA SECTION C651 WHERE:
 - CHLORINE CONCENTRATION IN WATER LINES SHALL BE NO LESS THAN 50 MG/L AT START OF 24-HOUR TEST.
 - CHLORINE RESIDUAL SHALL BE NO LESS THAN 10 MG/L AT END OF TEST.
- PRIOR TO RECEIVING CERTIFICATE OF OCCUPANCY, MICROBIOLOGICAL SAMPLES SHALL BE COLLECTED FROM BOTH ENDS AND THE MIDDLE OF EACH NEW LINE. ALL LINES SHALL NOT BE USED UNTIL MICROBIOLOGICAL SAMPLES ARE ACCEPTED BY THE VILLAGE. RESULTS OF ALL MICROBIOLOGICAL TESTING SHALL BE SUBMITTED TO THE VILLAGE ALONG WITH ENGINEER'S CERTIFICATE OF COMPLETION.

TESTING WATER MAINS:

- AFTER TRENCH HAS BEEN BACKFILLED, HYDROSTATIC ACCEPTANCE TESTS, CONSISTING OF A PRESSURE TEST AND A LEAKAGE TEST, SHALL BE PERFORMED ON SECTIONS OF WATER MAINS INSTALLED. LEAKAGE TEST SHALL BE CONDUCTED CONCURRENTLY WITH PRESSURE TEST. TEST SECTION SHALL BE LIMITED TO 1,500 FT (MAX.). TESTS SHOULD BE CONDUCTED TO FIRST VALVE IN BUILDING.
- AFTER ALL TESTS AND INSPECTIONS HAVE BEEN PERFORMED EVIDENCE OF COMPLIANCE SHALL BE FORWARDED TO OWNER/ENGINEER AND THE VILLAGE PRIOR TO ACCEPTANCE.
- ALL WATER FOR TESTS SHALL BE FURNISHED AND DISPOSED OF BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. SOURCE AND/OR QUALITY OF WATER WHICH THE CONTRACTOR PROPOSES TO USE IN TESTING LINES SHALL BE ACCEPTABLE TO THE ENGINEER.
- HYDROSTATIC PRESUMPTIVE TESTS MAY BE PERFORMED WHEN SYSTEM IS PARTIALLY BACKFILLED TO SIMPLY CHECK WORK, BUT ACCEPTANCE OF SYSTEM SHALL BE BASED ON HYDROSTATIC TESTS RUN ON FINISHED SYSTEM AFTER IT HAS BEEN COMPLETELY BACKFILLED. ALL HYDROSTATIC TESTS SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 4 OF AWWA STANDARD C 600 OR LATER ADDITION, AS MODIFIED HEREIN.
- FOR THE PRESSURE TEST, SYSTEM SHALL BE PRESSURIZED AND MAINTAINED AT A MINIMUM OF 150 POUNDS PER SQUARE INCH, OR 1.5 TIMES THE WORKING PRESSURE, WHICHEVER IS GREATER, BASED ON THE ELEVATION OF THE LOWEST POINT OF THE SECTION BEING TESTED AND CORRECTED TO THE ELEVATION OF THE GAUGE. PROVISIONS SHALL BE MADE TO RELIEVE AIR TRAPPED AT HIGH POINTS IN THE SYSTEM THROUGH ADJACENT HYDRANTS OR THROUGH TAPS AND CORPORATION STOPS INSTALLED FOR THIS PURPOSE BY THE CONTRACTOR. AFTER SAID PRESSURE HAS BEEN MAINTAINED SUCCESSFULLY, WITH FURTHER PUMPING AS REQUIRED, FOR A PERIOD OF AT LEAST TWO HOURS, THE SECTION UNDER TEST SHALL BE CONSIDERED TO HAVE PASSED THE PRESSURE TEST.
- LEAKAGE TEST SHALL BE PERFORMED CONCURRENTLY USING A MINIMUM TEST PRESSURE OF 150 LBS/SQUARE INCH, OR 1.5 TIMES THE WORKING PRESSURE, WHICHEVER IS GREATER, BASED ON THE ELEVATION OF THE LOWEST POINT IN THE SECTION UNDER TEST AND CORRECTED TO ELEVATION OF THE GAUGE. LEAKAGE TEST DURATION SHALL BE A MINIMUM OF 2 HOURS AFTER LEAKAGE RATE HAS STABILIZED.
- MAXIMUM ALLOWABLE LEAKAGE SHALL BE AS SHOWN IN THE FOLLOWING TABLE:
ALLOWABLE LEAKAGE PER 1000 FT (305M) OF PIPELINE (GPH)

AVG. TEST PRESSURE PSI	NOMINAL PIPE DIAMETER-IN.						
	4	6	8	10	12	14	16
450	0.57	0.86	1.15	1.43	1.72	2.01	2.29
600	0.54	0.82	1.10	1.38	1.67	1.95	2.23
350	0.51	0.76	1.01	1.26	1.52	1.77	2.02
300	0.47	0.70	0.94	1.17	1.40	1.64	1.87
0.75	0.47	0.67	0.87	1.07	1.24	1.57	1.74
250	0.43	0.64	0.85	1.07	1.28	1.50	1.71
225	0.41	0.61	0.81	1.01	1.22	1.42	1.62
200	0.38	0.57	0.76	0.95	1.15	1.34	1.53
175	0.36	0.54	0.72	0.89	1.07	1.25	1.43
150	0.33	0.50	0.66	0.83	0.99	1.16	1.32
125	0.30	0.45	0.60	0.75	0.91	1.06	1.21
100	0.27	0.41	0.54	0.68	0.81	0.95	1.08
- IF LEAKAGE IN SYSTEM EXCEEDS THE SPECIFIED AMOUNT, THE CONTRACTOR SHALL, AT NO ADDED COST TO THE OWNER, LOCATE, REPAIR, AND/OR REPLACE DEFECT(S) AND RE-TEST PIPING SYSTEM.

COMPACTION REQUIREMENTS

LOCATION	COMPACTION	TESTING FREQUENCY
PIPE TRENCH BACKFILL (N) PAVED AREAS)	95% ASTM D1557	1 SERIES OF TESTS FOR EACH 150 FT OR LESS OF TRENCH LENGTH. SERIES INCLUDE 3 COMPACTION TESTS SPREAD EVENLY ALONG TRENCH PROFILE.
PIPE TRENCH BACKFILL (N) UNPAVED AREAS)	90% ASTM D1557	1 SERIES OF TESTS FOR EACH 150 LF OR LESS OF TRENCH LENGTH. SERIES INCLUDE 3 COMPACTION TESTS SPREAD EVENLY ALONG TRENCH PROFILE.
PIPE BEDDING AND PIPE ZONE BACKFILL	95% ASTM D1557	1 TEST FOR EACH 150 FT OR LESS OF TRENCH LENGTH.
PAVEMENT SUBBASE AND LAST FT OF SELECT GRANULAR FILL (FILL BETWEEN SHEET PILLS)	95% ASTM D1557	1 TEST FOR EVERY 2,000 SQ FT. OF LIFT OR MORE THAN TWO TESTS PER LIFT

WATER MAIN NOTES:

- ALL WATER MAINS SHALL BE GEMENT LINED DUCTILE IRON PIPE, CLASS 52 PUSH-ON JOINT, UNLESS OTHERWISE SPECIFIED BY OR APPROVED BY THE VILLAGE WATER DEPARTMENT. JOINT SHALL EMPLOY MECHANICAL RESTRAINT CONNECTIONS SUCH AS CLOW F-1068, MECALUG STAR PIPE SERIES 600 "MEGALUG" CONNECTIONS, FLEX LOCK GASKET, OR AS ALTERNATIVELY SPECIFIED BY THE VILLAGE WATER DEPARTMENT. ALL WATER PIPING CONSTRUCTION SHALL BE TO THE SPECIFICATIONS OF THE VILLAGE WATER DEPARTMENT. WET TAP OF PUBLIC WATER SYSTEM SHALL BE APPROVED AND SUPERVISED BY THE VILLAGE WATER DEPARTMENT. COPPER OR STEEL SHALL BE STAINLESS STEEL OR APPROVED EQUAL. ALL MAINLINE VALVES SHALL BE RESILIENT WEDGE OR APPROVED EQUAL.
- THE WATER LINE MAY BE FLEXED WITHIN PIPE SPECIFICATIONS OR LAID DEEPER IN AREAS WHERE A CROSSING WITH A SANITARY LINE OCCURS, TO ACHIEVE THE REQUIRED 1.5' VERTICAL SEPARATION DISTANCE. IF THIS DISTANCE CANNOT BE REASONABLY ACHIEVED, THE CONTRACTOR SHALL USE PRESSURE RATED SANITARY SEWER PIPE OF EQUAL OR GREATER RATEING THAT THE PRESSURE CLASS FOR THE WATER LINE.
- MINIMUM VERTICAL SEPARATION BETWEEN WATER MAINS AND SEWER PIPE SHALL BE 18 INCHES MEASURED FROM THE OUTSIDE OF THE PIPES AT THE POINT OF CROSSING. ONE FULL STANDARD LAYING LENGTH OF WATER MAIN SHALL BE CENTERED UNDER OR OVER THE SEWER SO THAT BOTH JOINTS WILL BE AS FAR FROM THE SEWER LINE AS POSSIBLE. IN ADDITION, WHEN THE WATER MAIN PASSES UNDER A SEWER, ADEQUATE STRUCTURAL SUPPORT (COMPACTED SELECT FILL) SHALL BE PROVIDED FOR THE SEWER TO PREVENT EXCESSIVE DEFLECTION OF JOINTS AND SETTLING OF THE SEWER PIPE ON THE WATER MAIN. MINIMUM HORIZONTAL SEPARATION BETWEEN PARALLEL WATER MAINS AND SEWER PIPES (INCLUDING MANHOLES AND VAULTS) SHALL BE 10 FEET MEASURED FROM THE OUTSIDE OF THE PIPES, MANHOLES OR VAULTS.
- ALL WATER MAINS SHALL HAVE A MINIMUM OF (5) FIVE FEET OF COVER FROM THE TOP OF THE MAIN TO FINISHED GRADE. THE CONTRACTOR SHALL CHECK ALL FINISHED GRADE STAKES BEFORE TRENCHING TO ENSURE THAT ALL INSTALLED WATERMANS WILL HAVE THE REQUIRED COVER.
- THE SUPPLIER OF WATER MUST RECEIVE AT LEAST 48-HOUR ADVANCE NOTIFICATION REQUESTING SAMPLING SERVICES. SAMPLING WILL NOT BE PERFORMED PRIOR TO RECEIPT FROM A NEW YORK STATE LICENSED REGISTERED DESIGN PROFESSIONAL ENGINEER, ARCHITECT, OR LAND SURVEYOR WITH A SPECIAL EXEMPTION UNDER SECTION 7208(N) OF THE EDUCATION LAW) CERTIFYING THAT THE WATER SUPPLY IMPROVEMENTS, TESTING AND DISINFECTION PROCEDURES WERE COMPLETED IN ACCORDANCE WITH THE APPROVAL PLANS, REPORTS, SPECIFICATIONS AND ANY APPROVED AMENDMENTS. A NYSDOH CERTIFIED LABORATORY WILL COLLECT SAMPLES FOR FREE CHLORINE RESIDUAL, TOTAL AND FECAL COLIFORM AND 24-HOUR BACTERIAL PLATE COUNT. THE CERTIFICATE OF COMPLIANCE SHALL BE PROVIDED TO THE WATER MAINTENANCE SUPERVISOR AS A CONDITION OF APPROVAL FOR OPERATION.
- THE CONTRACTOR SHALL COORDINATE THE TESTING WITH THE WATER DEPARTMENT SO AS TO MAINTAIN THE AMOUNT OF SERVICE INTERRUPTION TO EXISTING USERS TO THE LEAST EXTENT PRACTICABLE. WATER MAIN INSTALLATION AND TESTING SHALL BE PERFORMED UNDER THE SUPERVISION OF THE PROJECT ENGINEER OR HIS DESIGNEE AS NECESSARY TO MEET CONDITIONS IN NOTE 5 ABOVE.
- THE WATER MAIN SHALL BE DISINFECTED EQUAL TO AWWA STANDARD FOR DISINFECTING WATER MAINS DESIGNATION C651 (LATEST REVISION). FOLLOWING DISINFECTION, THE WATER MAIN SHALL BE FLUSHED UNTIL THE CHLORINE CONCENTRATION IN THE WATER LEAVING THE MAIN IS NO HIGHER THAN THAT GENERALLY PREVAILING IN THE SYSTEM. THE PROJECT ENGINEER OR HIS DESIGNEE SHALL ALSO WITNESS DISINFECTION AND FLUSHING.
- ALL WATER MAIN FITTINGS NOT RECEIVING 24-HOUR CHLORINE DISINFECTION TIME MUST BE SWAB-DISINFECTED 30 MINUTES PRIOR TO INSTALLATION.
- THE SAMPLING POINT(S) MUST BE DECONTAMINATED BY FLAMING.
- FIRE HYDRANTS ARE NOT ACCEPTABLE SAMPLING POINTS.
- FIRE HYDRANTS WEEP HOLES (DRAINS) SHALL BE PLUGGED WHEN GROUND WATER IS ENCOUNTERED WITHIN SEVEN FEET OF THE FINISHED GRADE. WHEN DRAINS ARE PLUGGED, THE BARRELS MUST BE PUMPED DRY AFTER USE DURING FREEZING WEATHER. SUCH HYDRANTS SHALL BE IDENTIFIED BY MARKINGS APPROVED BY THE VILLAGE WATER DEPARTMENT.
- PROPOSED WATER METERS LOCATED WITHIN THE METER PIT OR BUILDING SHALL BE A COMPATIBLE REMOTE STYLE TYPE (SENSUS OR APPROVED EQUAL), AND SHALL BE APPROVED BY THE VILLAGE WATER DEPARTMENT PRIOR TO INSTALLATION. WATER METERS SHALL BE EQUIPPED WITH (RADIO TYPE) TRANSCIEVER PROVIDED BY THE VILLAGE WATER DEPARTMENT.
- THE WATER LINE SHALL BE INSTALLED AT A CONTINUOUS GRADE WITH NO ABRUPT HIGH POINTS OR LOW POINTS.
- FINAL WATER DISTRIBUTION SYSTEM IS SUBJECT TO REVIEW, REVISION AND APPROVAL BY THE VILLAGE WATER DEPARTMENT.
- ALL WATER MAINS AND RELATED APPURTENANCES SHALL BE CONSTRUCTED TO THE LATEST STANDARDS AND SPECIFICATIONS OF THE VILLAGE.
- THE WATER MAIN SHALL NOT BE PLACED INTO SERVICE UNTIL SO AUTHORIZED BY THE VILLAGE.
- ALL WATER SERVICE CONSTRUCTION SHALL BE SUBJECT TO INSPECTION BY THE VILLAGE WATER DEPARTMENT PRIOR TO BACKFILLING.
- THE SITE UTILITY CONTRACTOR SHALL BE RESPONSIBLE FOR ALL BURIED PIPING TO THE LOCATION OF THE PROPOSED BUILDING CONNECTION POINT (I.E. INSIDE THE BUILDING). THIS INCLUDES THE TESTING AND CERTIFICATION OF ALL WATER SERVICE WORK FROM THE VILLAGE WATER CONNECTION POINT TO THE PROPOSED BUILDINGS INTERIOR CONNECTION POINT.
- ALL WATER SERVICE PIPING INSTALLATION, BACKFILL AND TESTING SHALL BE REVIEWED, AND APPROVED BY THE VILLAGE WATER MAINTENANCE SUPERVISOR OR HIS DESIGNEE.
- PIPE BEND FITTINGS SHOWN ON THE DRAWINGS ARE INDICATIVE OF PROBABLE DIRECTIONAL CHANGES IN THE PROPOSED WATER MAIN ALIGNMENT. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL FITTINGS, EITHER SHOWN OR FIELD REQUIRED, AS PART OF THE CONTRACTOR'S CONTRACT AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL PROVIDE AND INSTALL BRASS WEDGES ACROSS ALL PIPE JOINTS TO ENSURE ELECTRICAL CONDUCTIVITY. THE LOCATION AND THE NUMBER OF WEDGES TO BE PROVIDED SHALL BE ACCORDING TO THE PIPE MANUFACTURER'S RECOMMENDATIONS AND THE SPECIFICATIONS.
- SHEETING AND EXCAVATION BRACING FOR THE WATERMAIN INSTALLATION SHALL BE PROVIDED IN ACCORDANCE WITH OSHA REQUIREMENTS TO SUIT EXISTING SOIL CONDITIONS. SHEETING, IF REQUIRED, SHALL BE TIGHT WOOD SHEETING AND SHALL BE LEFT IN PLACE, AND AFTER BACKFILLING SHALL BE CUT AT GROUND LEVEL OR AS ORDERED BY THE OWNER'S REPRESENTATIVE.

DUTCHESS COUNTY STANDARD NOTES FOR SEWER/WATER SYSTEMS:

THE DESIGN, CONSTRUCTION AND INSTALLATION SHALL BE IN ACCORDANCE WITH THIS PLAN AND GENERALLY ACCEPTED STANDARDS IN EFFECT AT THE TIME OF CONSTRUCTION WHICH INCLUDE:

- "NEW YORK STATE DESIGN STANDARDS FOR INTERMEDIATE SIZED WASTEWATER TREATMENT SYSTEMS", NYSDEC
- "RECOMMENDED STANDARDS FOR SEWAGE TREATMENT WORKS, (TEN STATES).".
- "RECOMMENDED STANDARDS FOR WATER WORKS, (TEN STATES).".
- "NEW YORK STATE DEPARTMENT OF HEALTH AND DUTCHESS COUNTY ENVIRONMENTAL HEALTH SERVICES DIVISION POLICIES, PROCEDURES AND STANDARDS."
- "DUTCHESS COUNTY AND NEW YORK STATE SANITARY CODES."
- "DUTCHESS COUNTY ENVIRONMENTAL HEALTH SERVICES DIVISION CERTIFICATE OF APPROVAL LETTER."

THIS PLAN IS APPROVED AS MEETING THE APPROPRIATE AND APPLIED TECHNICAL STANDARDS, GUIDELINES, POLICIES AND PROCEDURES FOR ARRANGEMENT OF SEWAGE DISPOSAL AND WATER SUPPLY FACILITIES. UPON COMPLETION OF THE FACILITIES, THE FINISHED WORKS SHALL BE INSPECTED, TESTED, AND CERTIFIED COMPLETE TO THE DC EHSO BY THE NEW YORK STATE LICENSED PROFESSIONAL ENGINEER SUPERVISING CONSTRUCTION. NO PART OF THE FACILITIES SHALL BE PLACED INTO SERVICE UNTIL ACCEPTED BY THE DC EHSO. APPROVAL OF ANY PLAN(S) OR AMENDMENT THERETO SHALL BE VALID FOR A PERIOD OF FIVE (5) YEARS FROM THE DATE OF APPROVAL FOLLOWING THE EXPIRATION OF SAID APPROVAL, THE PLAN(S) SHALL BE RE-SUBMITTED TO THE COMMISSIONER OF HEALTH FOR CONSIDERATION FOR RE-APPROVAL. RE-SUBMISSION OR REVISED SUBMISSION OF PLANS AND/OR ASSOCIATED DOCUMENTS SHALL BE SUBJECT TO COMPLIANCE WITH THE TECHNICAL STANDARDS, GUIDELINES, POLICIES AND PROCEDURES IN EFFECT AT THE TIME OF THE RE-SUBMISSION. NO CELLAR, FOOTING, FLOOR, GARAGE, COOLER OR ROOF DRAINS SHALL BE DISCHARGED INTO THE SEWAGE COLLECTION SYSTEM. ALL BUILDINGS SHALL BE CONSTRUCTED AT AN ELEVATION HIGH ENOUGH TO ENSURE GRAVITY FLOW TO THE SEWAGE COLLECTION SYSTEM. ALL REQUIRED EROSION & SEDIMENT CONTROL AND STORMWATER POLLUTION PREVENTION WATER QUALITY & QUANTITY CONTROL STRUCTURES, PERMANENT AND TEMPORARY, ARE SHOWN ON THE PLANS. THE DC EHSO SHALL BE NOTIFIED SIXTY DAYS PRIOR TO ANY CHANGE IN USE; USE CHANGES MAY REQUIRE RE-APPROVAL BY

NOT FOR CONSTRUCTION

It is a violation of New York Education Law Article 145 Sec. 7209, for any person, unless acting under the direction of a licensed architect, professional engineer, land surveyor, landscape architect or geologist to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, land surveyor, landscape architect or geologist shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

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395 Route 212 Saugerties, NY 12477

Terra Group 201, LLC.
Dutchess Ave and Garden Street Village of Wappingers, NY

2	3/15/23	Village Comments
1	2/8/23	Village Comments
NO.	DATE:	DESCRIPTION:

Revisions

PROJECT NUMBER: 2230010

DRAWN BY: TK

REVIEWED BY: CPL

ISSUED FOR: PLANNING BOARD APPROVAL

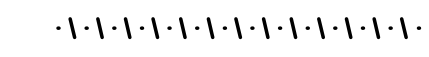








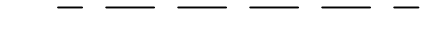
DATE: 12/7/22

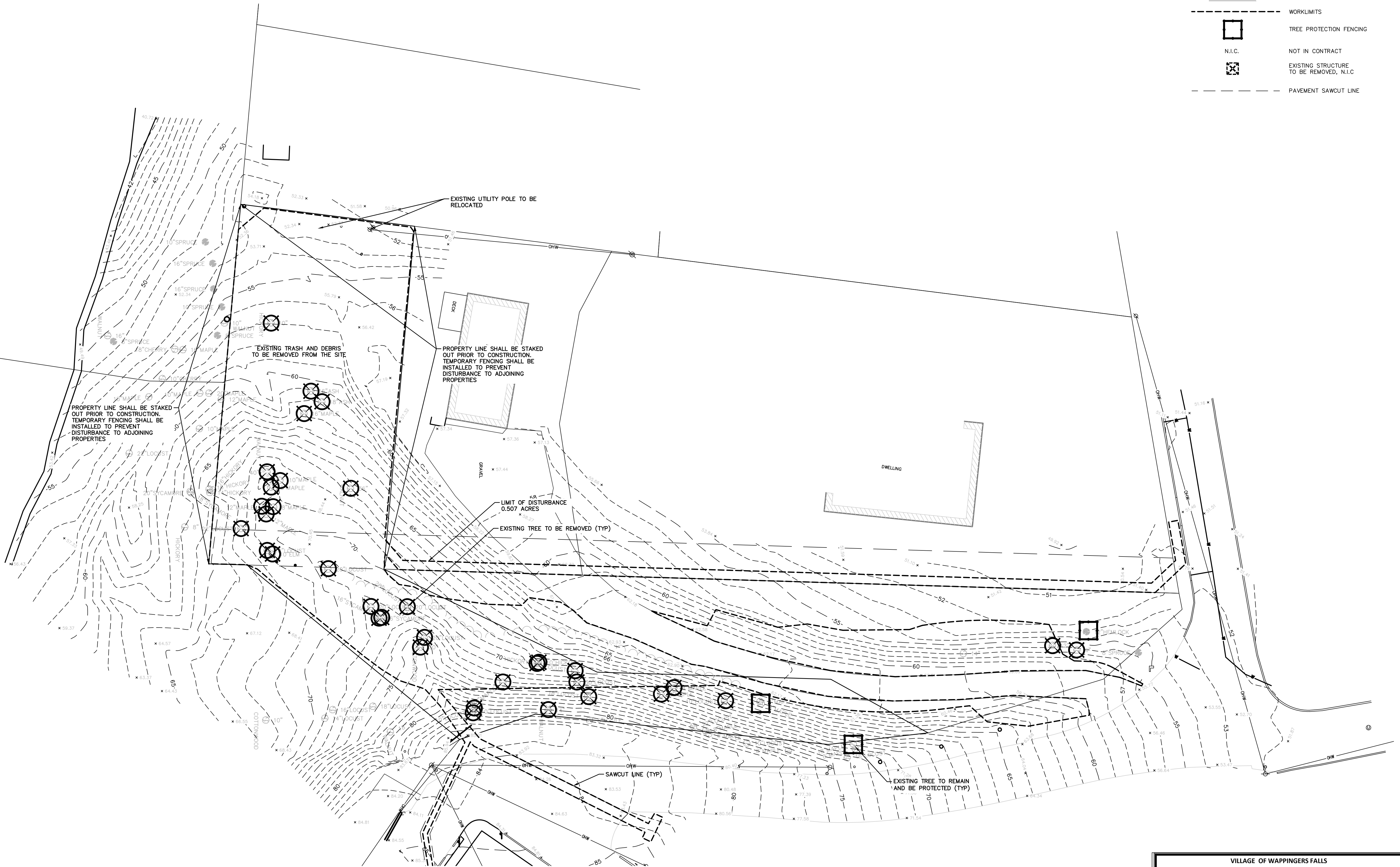
DRAWING NAME:

DEMOLITION PLAN

DRAWING NUMBER:

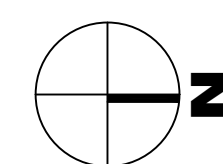
LEGEND:

-  EXISTING FEATURE TO BE REMOVED
-  EXISTING TREE TO BE REMOVED
-  EXISTING SITE FEATURE TO BE REMOVED
-  EXISTING PAVEMENT & SIDEWALK TO BE REMOVED
-  EXISTING BUILDING TO BE REMOVED
-  WORKLIMITS
-  TREE PROTECTION FENCING
-  N.I.C.
-  EXISTING STRUCTURE TO BE REMOVED, N.I.C.
-  PAVEMENT SAWCUT LINE



1 DEMOLITION PLAN

C120 SCALE: 1" = 20'



VILLAGE OF WAPPINGERS FALLS
PLANNING BOARD

FINAL APPROVAL DATE: _____

PB CHAIR: _____ DATE: _____

WITNESS: _____

C120

NOT FOR CONSTRUCTION

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2	3/15/23	Village Comments
1	2/8/23	Village Comments
NO.	DATE:	DESCRIPTION:

PROJECT NUMBER: 2230010

DRAWN BY: TK

REVIEWED BY: CPL

ISSUED FOR: PLANNING BOARD APPROVAL

DATE: 12/7/22

DRAWING NAME:

DRAWING NUMBER:

SITE PLAN

C130

BULK TABLE

ZONING REQUIREMENTS:

	REQUIRED	EXISTING	PROPOSED
MINIMUM LOT AREA	N/A	0.447 ACRES	0.447 ACRES
MINIMUM LOT WIDTH	25 FT	75 FT	75 FT
MINIMUM SETBACK REQUIREMENTS			
FRONT	10 FT	N/A	127.2 FT
SIDES	0 FT	N/A	1.9'
REAR	10 FT	N/A	18.5'
MAXIMUM BUILDING HEIGHT	46 FT OR 3 STORIES MAX	N/A	3 STORIES, <46 FT
MINIMUM BUILDING HEIGHT	2 STORIES	N/A	3 STORIES
MAXIMUM LOT COVERAGE	60%(11,693 SF)	0%	57% (11,159 SF)
MINIMUM GREEN SPACE	15%	100%	43%
MINIMUM LOT DEPTH	N/A	N/A	190.6 FT

PARKING REQUIREMENTS:

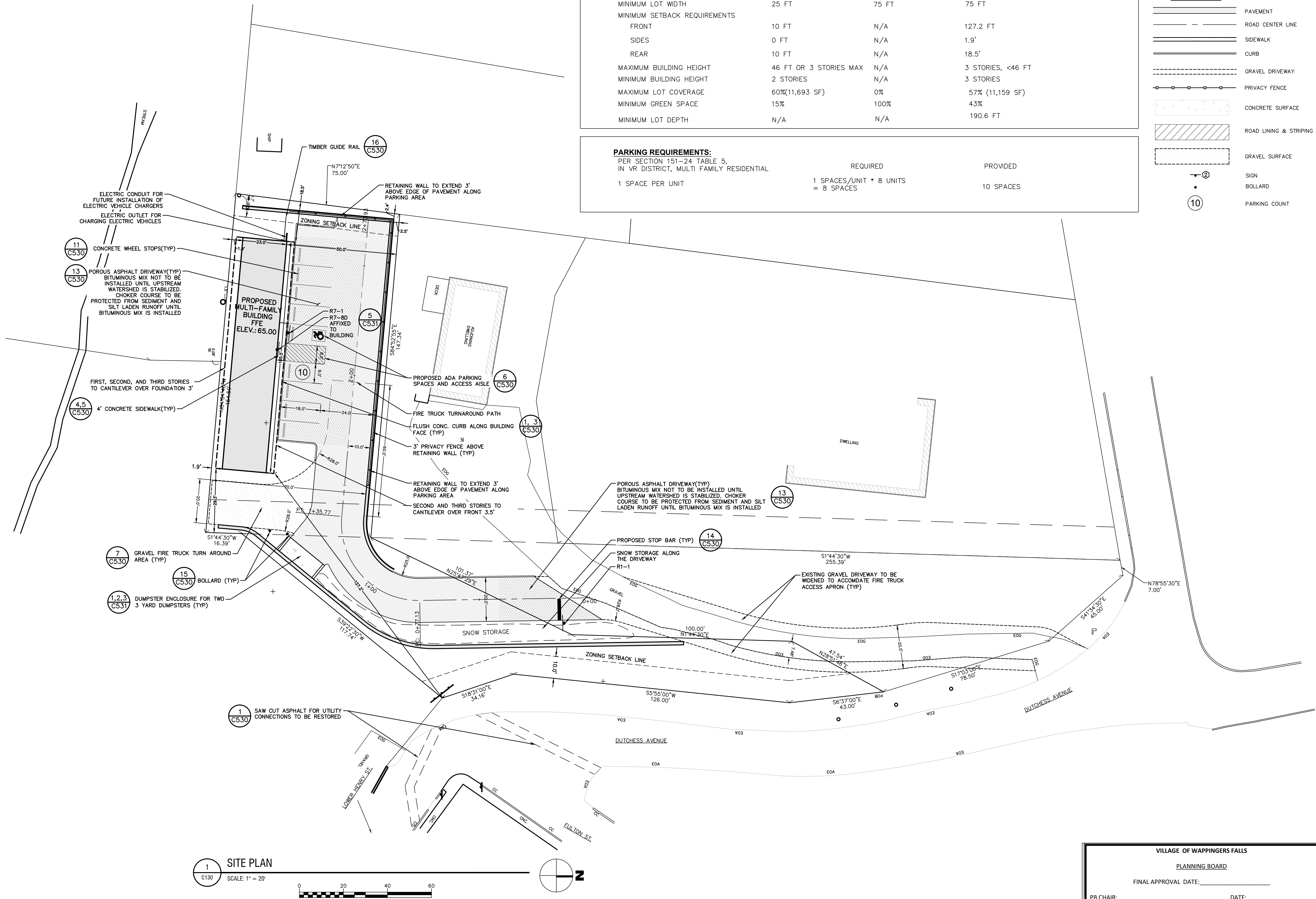
PER SECTION 151-24 TABLE 5.

IN VR DISTRICT, MULTI FAMILY RESIDENTIAL

	REQUIRED	PROVIDED
1 SPACE PER UNIT	1 SPACES/UNIT * 8 UNITS = 8 SPACES	10 SPACES

SITE LEGEND:

- PROPERTY LINE
- SETBACK LINE
- BUILDING
- PAVEMENT
- ROAD CENTER LINE
- SIDEWALK
- CURB
- GRAVEL DRIVEWAY
- PRIVACY FENCE
- CONCRETE SURFACE
- ROAD LINING & STRIPING
- GRAVEL SURFACE
- SIGN
- BOLLARD
- PARKING COUNT



VILLAGE OF WAPPINGERS FALLS
PLANNING BOARD

FINAL APPROVAL DATE: _____

PB CHAIR: _____ DATE: _____

WITNESS: _____

\\schlabell\Projects\Upstate Realty Group\CC2230010 - Dutchess Ave Multi Family\06_Drawings\Civil\01_C130_2230010_SITE.dwg
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395 Route 212 Saugerties, NY 12477

Terra Group 201, LLC.
Dutchess Ave and Garden Street Village of Wappingers, NY

2	3/15/23	Village Comments
1	2/8/23	Village Comments
NO.	DATE:	DESCRIPTION:

PROJECT NUMBER: 2230010

DRAWN BY: TK
REVIEWED BY: CPL

ISSUED FOR: PLANNING BOARD APPROVAL

DATE: 12/7/22

DRAWING NAME:

GRADING & DRAINAGE PLAN

DRAWING NUMBER:

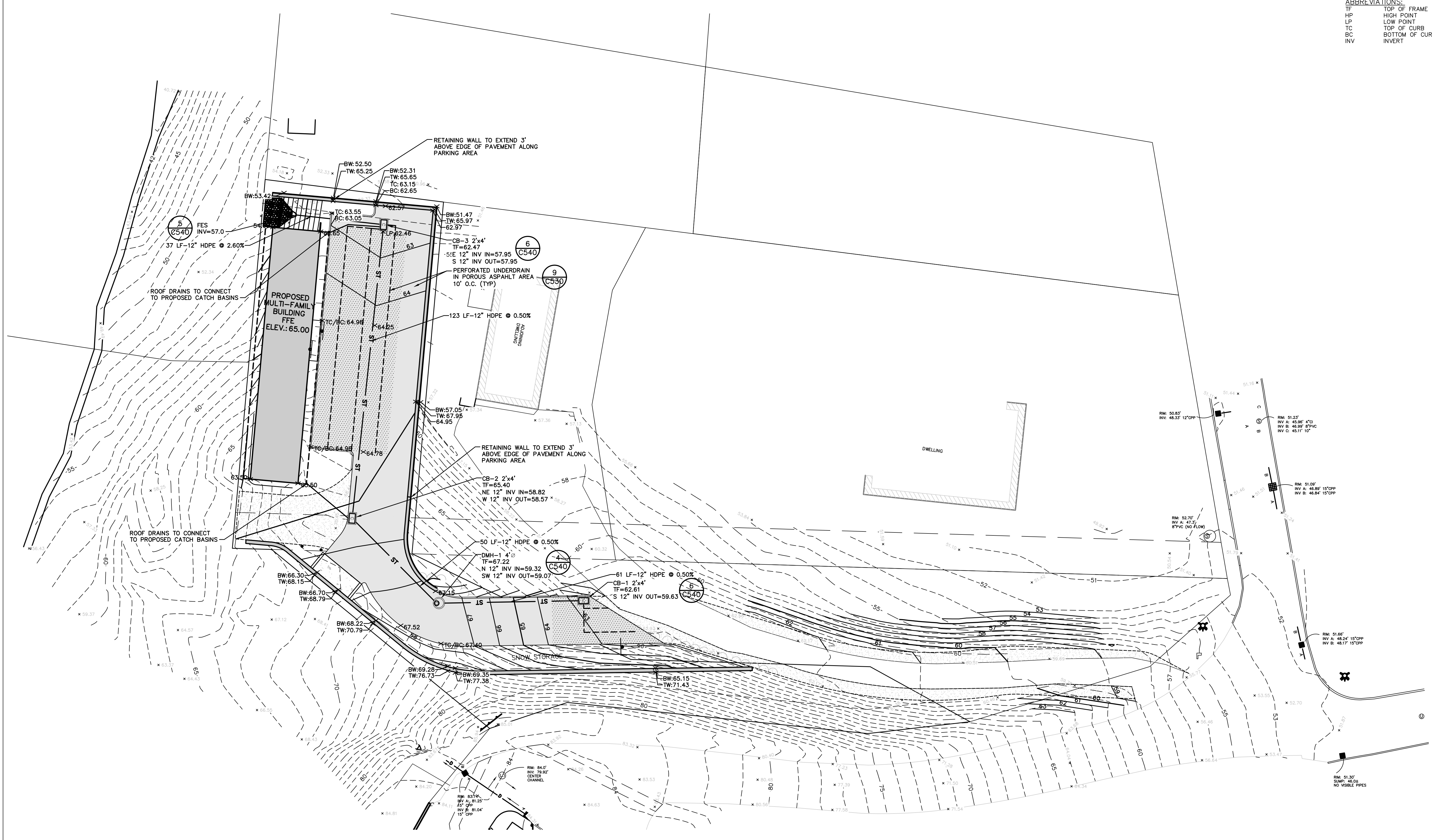
C140

GRADING & DRAINAGE LEGEND:

	PROPERTY LINE
	BUILDING
	PAVEMENT
	10 FT CONTOUR
	2 FT CONTOUR
	SPOT GRADE

ABBREVIATIONS:

TF	TOP OF FRAME
HP	HIGH POINT
LP	LOW POINT
TC	TOP OF CURB
BC	BOTTOM OF CURB
INV	INVERT



1 GRADING & DRAINAGE PLAN
C140 SCALE: 1" = 20'

ORIGINAL SCALE 1"=20'

VILLAGE OF WAPPINGERS FALLS
PLANNING BOARD

FINAL APPROVAL DATE: _____

PB CHAIR: _____ DATE: _____

WITNESS: _____

I:\Health\Projects\Update Realty Group\LLC2230010 - Dutchess Ave Multi Family\06_Drawings\Civil\01_C140_2230010_GRAD.dwg
3/15/2023 11:24:42 AM

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PROJECT NUMBER: 2230010

DRAWN BY: TK

REVIEWED BY: CPL

ISSUED FOR: PLANNING BOARD APPROVAL

DATE: 12/7/22

DRAWING NAME:

EROSION & SEDIMENT CONTROL PLAN

DRAWING NUMBER:

C150

SEQUENCE OF CONSTRUCTION

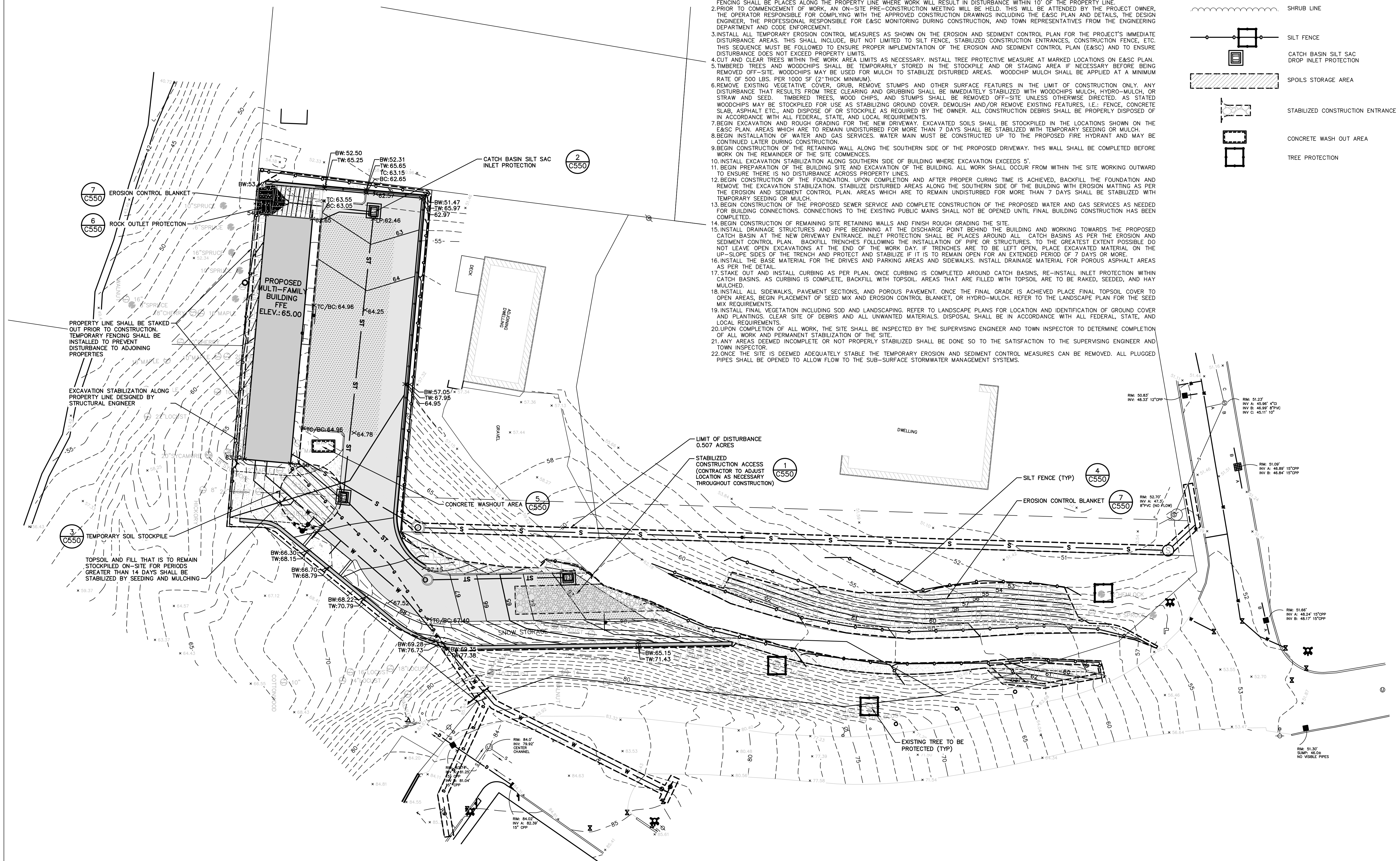
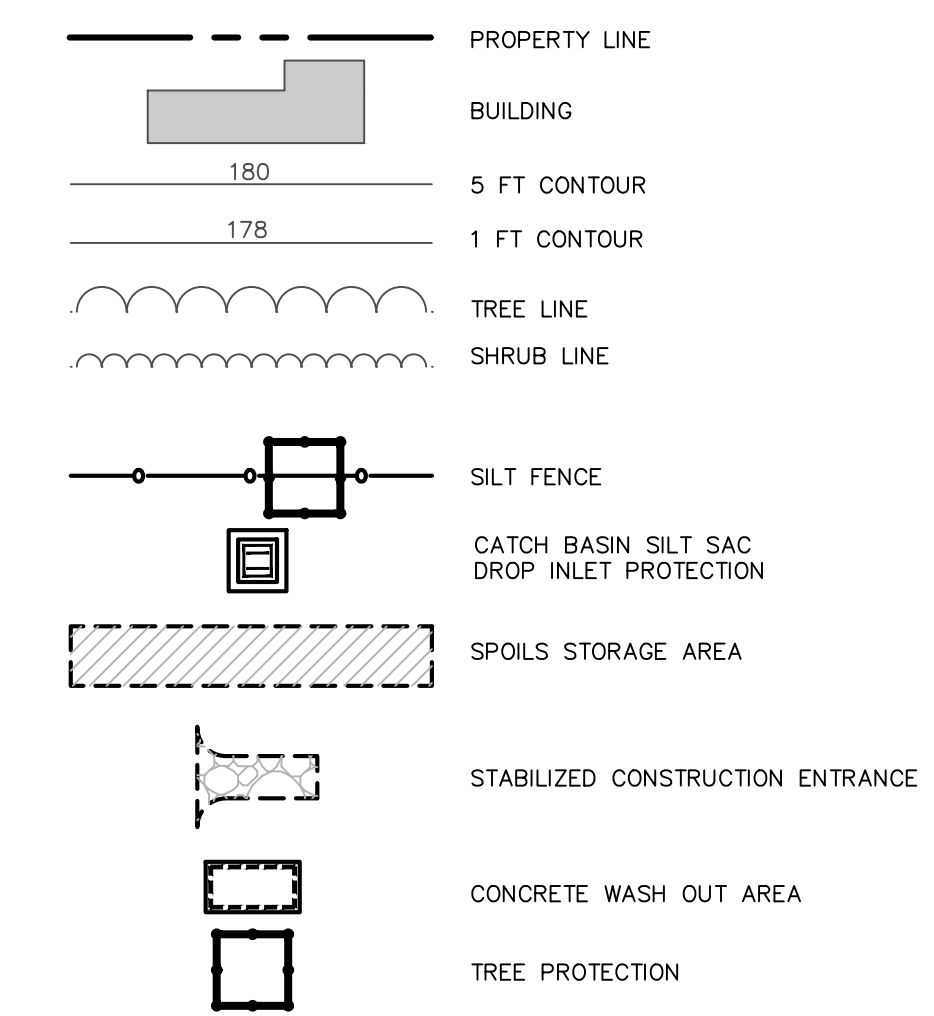
DUE TO THE PROXIMITY OF THE PROPOSED DEVELOPMENT TO MULTIPLE LOT LINES, USE OF EROSION AND SEDIMENT CONTROL STRUCTURES AND STABILIZATION PRACTICES ARE IMPORTANT FOR MAINTAINING SITE STABILITY UNDER RUNOFF AND DURING DAILY CONSTRUCTION ACTIVITIES. ALL CONTROLS SHOULD BE IN PLACE AND IMPLEMENTED PRIOR TO CONSTRUCTION AS INDICATED. AS CONSTRUCTION PROCEEDS, THE CONTROLS SHOULD BE MONITORED, MAINTAINED AND REPLACED AS NEEDED. ADDITIONAL CONTROLS MAY BE REQUIRED AS NEEDED TO ADDRESS UNFORESEEN SITUATIONS.

REFER TO THE CONSTRUCTION DRAWINGS FOR ALL PLANS AND DETAILS WHICH RELATE TO THE CONSTRUCTION SEQUENCE. THIS SEQUENCE SHOULD BE FOLLOWED IN CONJUNCTION WITH ALL PLANS, NOTES, AND THE STORMWATER POLLUTION PREVENTION PLAN. PRIOR TO THE COMMENCEMENT OF WORK, THE OWNER AND GENERAL CONTRACTOR SHALL READ AND UNDERSTAND THE SEQUENCE FOR CONSTRUCTION.

CONSTRUCTION SEQUENCE

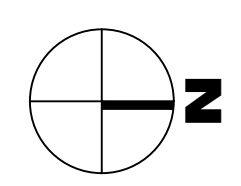
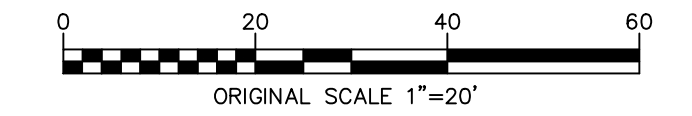
- PRIOR TO THE BEGINNING OF ANY SITE WORK THE MAJOR FEATURES OF THE CONSTRUCTION MUST BE FIELD STAKED BY A LICENSED SURVEYOR. THESE INCLUDE THE BUILDING, SITE INFRASTRUCTURE, LIMITS OF DISTURBANCE, UTILITY LINES, AND PROPERTY LINES. TEMPORARY CONSTRUCTION FENCING SHALL BE PLACED ALONG THE PROPERTY LINE WHERE WORK WILL RESULT IN DISTURBANCE WITHIN 10' OF THE PROPERTY LINE.
- PRIOR TO COMMENCEMENT OF WORK, AN ON-SITE PRE-CONSTRUCTION MEETING WILL BE HELD. THIS WILL BE ATTENDED BY THE PROJECT OWNER, THE OPERATOR RESPONSIBLE FOR COMPLYING WITH THE APPROVED CONSTRUCTION DRAWINGS INCLUDING THE E&S PLAN AND DETAILS, THE DESIGN ENGINEER, THE PROFESSIONAL RESPONSIBLE FOR E&S MONITORING DURING CONSTRUCTION, AND TOWN REPRESENTATIVES FROM THE ENGINEERING DEPARTMENT AND CODE ENFORCEMENT.
- INSTALL ALL TEMPORARY EROSION CONTROL MEASURES AS SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN FOR THE PROJECT'S IMMEDIATE DISTURBANCE AREAS. THIS SHALL INCLUDE, BUT NOT LIMITED TO SILT FENCE, STABILIZED CONSTRUCTION ENTRANCES, CONSTRUCTION FENCE, ETC. THIS SEQUENCE MUST BE FOLLOWED TO ENSURE PROPER IMPLEMENTATION OF THE EROSION AND SEDIMENT CONTROL PLAN (E&S) AND TO ENSURE DISTURBANCE DOES NOT EXCEED PROPERTY LIMITS.
- CUT AND CLEAR TREES WITHIN THE WORK AREA LIMITS AS NECESSARY. INSTALL TREE PROTECTIVE MEASURE AT MARKED LOCATIONS ON E&S PLAN.
- TIMBERED TREES AND WOODCHIPS SHALL BE TEMPORARILY STORED IN THE STOCKPILE AND OR STAGING AREA IF NECESSARY BEFORE BEING REMOVED OFF-SITE. WOODCHIPS MAY BE USED FOR MULCH TO STABILIZE DISTURBED AREAS. WOODCHIP MULCH SHALL BE APPLIED AT A MINIMUM RATE OF 500 LBS. PER 1000 SF (2" THICK MINIMUM).
- REMOVE EXISTING VEGETATIVE COVER, GRUB, REMOVE STUMPS AND OTHER SURFACE FEATURES IN THE LIMIT OF CONSTRUCTION ONLY. ANY DISTURBANCE THAT RESULTS FROM TREE CLEARING AND GRUBBING SHALL BE IMMEDIATELY STABILIZED WITH WOODCHIPS MULCH, HYDRO-MULCH, OR STRAW AND SEED. TIMBERED TREES, WOOD CHIPS, AND STUMPS SHALL BE REMOVED OFF-SITE UNLESS OTHERWISE DIRECTED. AS STATED WOODCHIPS MAY BE STOCKPILED FOR USE AS STABILIZING GROUND COVER, DEMOLISH AND/OR REMOVE EXISTING FEATURES, I.E., FENCE, CONCRETE SLAB, ASPHALT ETC., AND DISPOSE OF OR STOCKPILE AS REQUIRED BY THE OWNER. ALL CONSTRUCTION DEBRIS SHALL BE PROPERLY DISPOSED OF IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS.
- BEGIN EXCAVATION AND ROUGH GRADING FOR THE NEW DRIVEWAY. EXCAVATED SOILS SHALL BE STOCKPILED IN THE LOCATIONS SHOWN ON THE E&S PLAN. AREAS WHICH ARE TO REMAIN UNDISTURBED FOR MORE THAN 7 DAYS SHALL BE STABILIZED WITH TEMPORARY SEEDING OR MULCH.
- BEGIN INSTALLATION OF WATER AND GAS SERVICES. WATER MAIN MUST BE CONSTRUCTED UP TO THE PROPOSED FIRE HYDRANT AND MAY BE CONTINUED LATER DURING CONSTRUCTION.
- BEGIN CONSTRUCTION OF THE RETAINING WALL ALONG THE SOUTHERN SIDE OF THE PROPOSED DRIVEWAY. THIS WALL SHALL BE COMPLETED BEFORE WORK ON THE REMAINDER OF THE SITE COMMENCES.
- INSTALL EXCAVATION STABILIZATION ALONG SOUTHERN SIDE OF BUILDING WHERE EXCAVATION EXCEEDS 5'.
- BEGIN PREPARATION OF THE BUILDING SITE AND EXCAVATION OF THE BUILDING. ALL WORK SHALL OCCUR FROM WITHIN THE SITE WORKING OUTWARD TO ENSURE THERE IS NO DISTURBANCE ACROSS PROPERTY LINES.
- BEGIN CONSTRUCTION OF THE FOUNDATION. UPON COMPLETION AND AFTER PROPER CURING TIME IS ACHIEVED, BACKFILL THE FOUNDATION AND REMOVE THE EXCAVATION STABILIZATION. STABILIZE DISTURBED AREAS ALONG THE SOUTHERN SIDE OF THE BUILDING WITH EROSION MATTING AS PER THE EROSION AND SEDIMENT CONTROL PLAN. AREAS WHICH ARE TO REMAIN UNDISTURBED FOR MORE THAN 7 DAYS SHALL BE STABILIZED WITH TEMPORARY SEEDING OR MULCH.
- BEGIN CONSTRUCTION OF THE PROPOSED SEWER SERVICE AND COMPLETE CONSTRUCTION OF THE PROPOSED WATER AND GAS SERVICES AS NEEDED FOR BUILDING CONNECTIONS. CONNECTIONS TO THE EXISTING PUBLIC MAINS SHALL NOT BE OPENED UNTIL FINAL BUILDING CONSTRUCTION HAS BEEN COMPLETED.
- BEGIN CONSTRUCTION OF REMAINING SITE RETAINING WALLS AND FINISH ROUGH GRADING THE SITE.
- INSTALL DRAINAGE STRUCTURES AND PIPE BEGINNING AT THE DISCHARGE POINT BEHIND THE BUILDING AND WORKING TOWARDS THE PROPOSED CATCH BASIN AT THE NEW DRIVEWAY ENTRANCE. INLET PROTECTION SHALL BE PLACED AROUND ALL CATCH BASINS AS PER THE EROSION AND SEDIMENT CONTROL PLAN. BACKFILL TRENCHES FOLLOWING THE INSTALLATION OF PIPE OR STRUCTURES, TO THE GREATEST EXTENT POSSIBLE DO NOT LEAVE OPEN EXCAVATIONS AT THE END OF THE WORK DAY. 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.
- INSTALL THE BASE MATERIAL FOR THE DRIVES AND PARKING AREAS AND SIDEWALKS. INSTALL DRAINAGE MATERIAL FOR POROUS ASPHALT AREAS AS PER THE DETAIL.
- STAKE OUT AND INSTALL CURBING AS PER PLAN. ONCE CURBING IS COMPLETED AROUND CATCH BASINS, RE-INSTALL INLET PROTECTION WITHIN CATCH BASINS. AS CURBING IS COMPLETE, BACKFILL WITH TOPSOIL. AREAS THAT ARE FILLED WITH TOPSOIL ARE TO BE RAKED, SEED, AND HAY MULCHED.
- INSTALL ALL SIDEWALKS, PAVEMENT SECTIONS, AND POROUS PAVEMENT. ONCE THE FINAL GRADE IS ACHIEVED PLACE FINAL TOPSOIL COVER TO OPEN AREAS. BEGIN PLACEMENT OF SEED MIX AND EROSION CONTROL BLANKET, OR HYDRO-MULCH. REFER TO THE LANDSCAPE PLAN FOR THE SEED MIX REQUIREMENTS.
- INSTALL FINAL VEGETATION INCLUDING SOO AND LANDSCAPING. REFER TO LANDSCAPE PLANS FOR LOCATION AND IDENTIFICATION OF GROUND COVER AND PLANTINGS. CLEAR SITE OF DEBRIS AND ALL UNWANTED MATERIALS. DISPOSAL SHALL BE IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS.
- UPON COMPLETION OF ALL WORK, THE SITE SHALL BE INSPECTED BY THE SUPERVISING ENGINEER AND TOWN INSPECTOR TO DETERMINE COMPLETION OF ALL WORK AND PERMANENT STABILIZATION OF THE SITE.
- ANY AREAS DEEMED INCOMPLETE OR NOT PROPERLY STABILIZED SHALL BE DONE SO TO THE SATISFACTION TO THE SUPERVISING ENGINEER AND TOWN INSPECTOR.
- ONCE THE SITE IS DEEMED ADEQUATELY STABLE THE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES CAN BE REMOVED. ALL PLUGGED PIPES SHALL BE OPENED TO ALLOW FLOW TO THE SUB-SURFACE STORMWATER MANAGEMENT SYSTEMS.

EROSION CONTROL LEGEND:



1 EROSION & SEDIMENT CONTROL PLAN

C150 SCALE: 1" = 1' = 20'



VILLAGE OF WAPPINGERS FALLS
PLANNING BOARD
FINAL APPROVAL DATE: _____
PB CHAIR: _____ DATE: _____
WITNESS: _____

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WATER DEMAND REQUIREMENTS:
1,540 GPD/DAY

SANITARY SEWER DEMAND REQUIREMENTS:
1,540 GPD/DAY

- UTILITY LEGEND:**
- PROPERTY LINE
 - BUILDING
 - OVERHEAD WIRES
 - SANITARY SEWER LINE
 - WATER LINE
 - STORM DRAIN LINE
 - CATCH BASIN
 - DRAINAGE MANHOLE
 - CLEANOUT
 - HYDRANT
 - WATER VALVE
 - LIGHT POLE
 - LIGHT WALL PACK
 - SANITARY MANHOLE
 - UTILITY POLE
 - REDUCER



21 Fox Street
Poughkeepsie, NY 12601
(845) 454-3980
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395 Route 212 Saugerties, NY 12477

Terra Group 201, LLC.
Dutchess Ave and Garden Street Village of Wappingers, NY

NO.	DATE:	DESCRIPTION:
2	3/15/23	Village Comments
1	2/8/23	Village Comments

PROJECT NUMBER: 2230010

DRAWN BY: TK

REVIEWED BY: CPL

ISSUED FOR: PLANNING BOARD APPROVAL

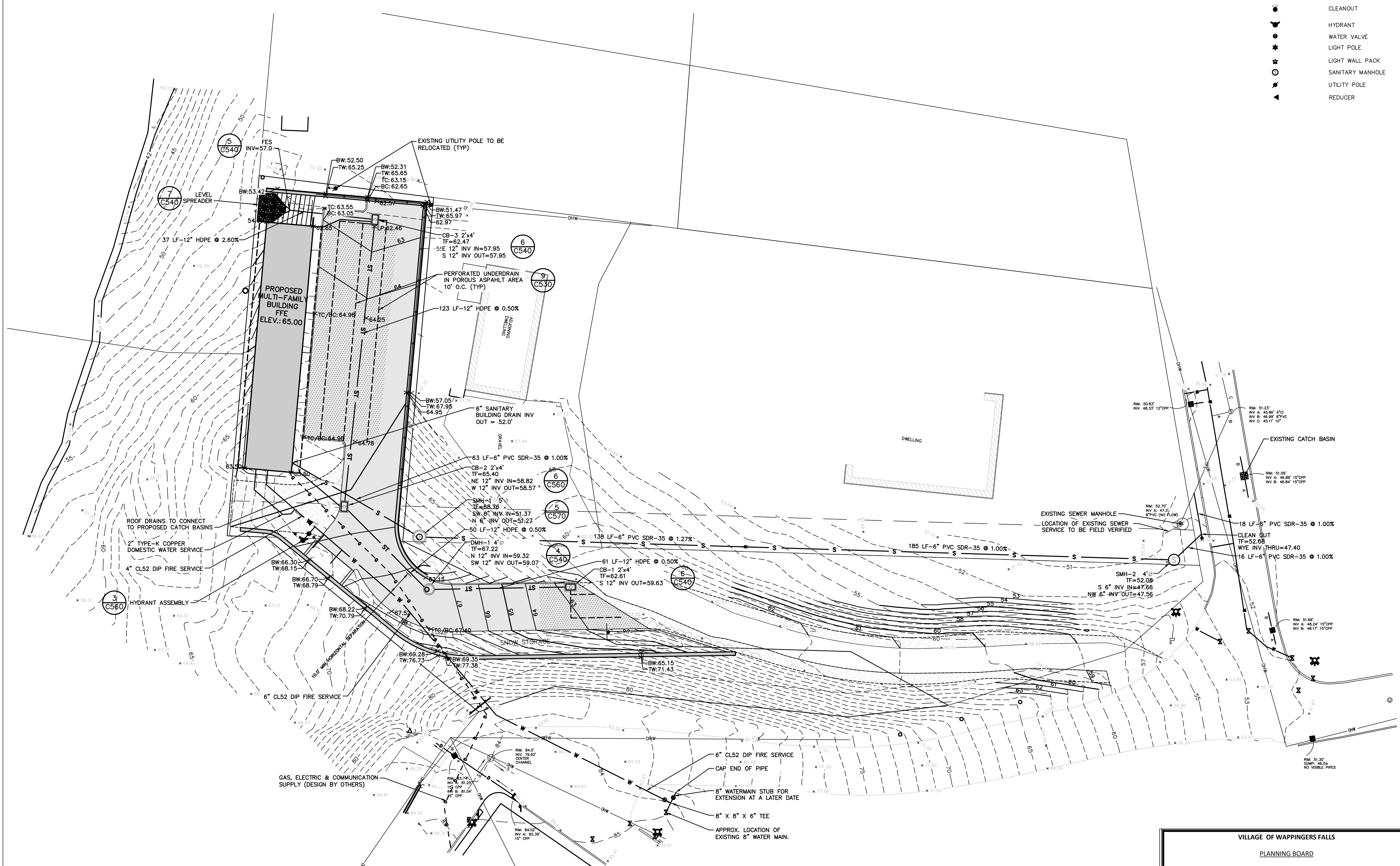
DATE: 12/7/22

DRAWING NAME:

UTILITY PLAN

DRAWING NUMBER:

C160



1 UTILITY PLAN
SCALE: 1" = 20'
ORIGINAL SCALE 1"=20'

VILLAGE OF WAPPINGERS FALLS
PLANNING BOARD

FINAL APPROVAL DATE: _____

PB CHAIR: _____ DATE: _____

WITNESS: _____

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3/15/2023 11:28:02 AM

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NO.	DATE:	DESCRIPTION:

Revisions

PROJECT NUMBER: 2230010

DRAWN BY: TK

REVIEWED BY: CPL

ISSUED FOR: PLANNING BOARD APPROVAL

DATE: 12/7/22

DRAWING NAME:

PLAN & PROFILE

DRAWING NUMBER:

C170

PROFILE LEGEND:

--- EXISTING GRADE
— PROPOSED GRADE

ABBREVIATIONS:

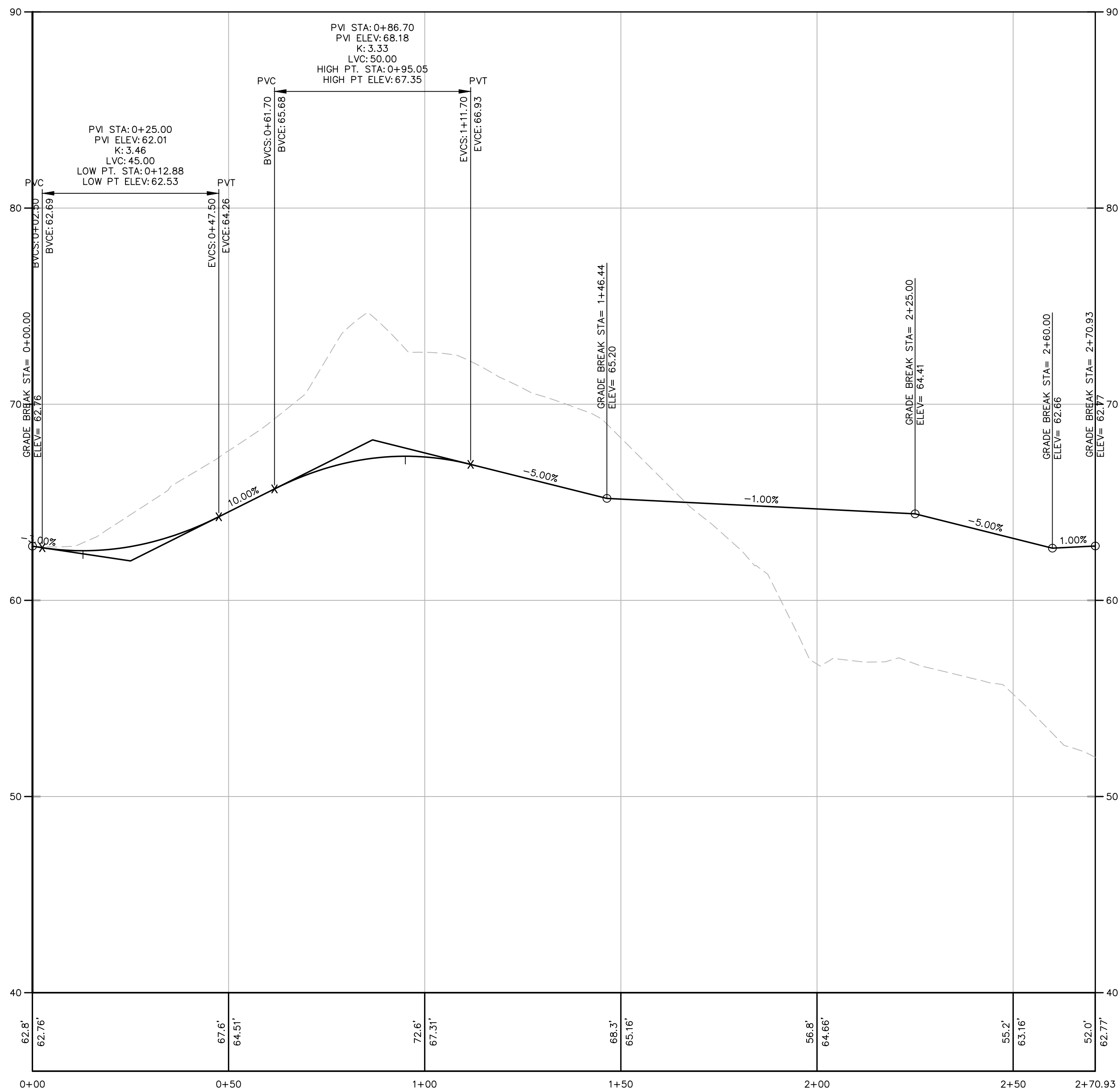
PVC POINT OF VERTICAL CURVE
PVI POINT OF VERTICAL INTERSECTION
PVT POINT OF VERTICAL TANGENCY
HORIZ HORIZONTAL
VERT VERTICAL
ID INSIDE DIAMETER
S= SLOPE
INV INVERT

STRUCTURES:

CB CATCH BASIN
DMH DRAINAGE MANHOLE
SMH SEWER MANHOLE
FES FAIRED END SECTION
CO CLEAN OUT
WSO WATER SHUT OFF
HYD HYDRANT

PIPES:

DI DUCTILE IRON PIPE
VC VITRIFIED CLAY
PVC POLYVINYLCHLORIDE PIPE
HDPE HIGH DENSITY POLYETHYLENE PIPE
CMP CORRUGATED METAL PIPE
RCP REINFORCED CONCRETE PIPE
SICPP SMOOTH INTERIOR CORRUGATED POLYETHYLENE PIPE

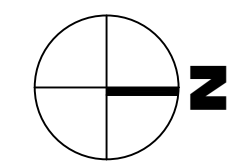


1 DRIVEWAY PROFILE STA: 0+00 - 2+70.66
C170 HORIZONTAL SCALE: 1" = 2'
VERTICAL SCALE: 1" = 20'

NOTE:
1. STATIONING SHOWN ON PROFILE IS CENTERLINE OF ROADWAY STATIONING.



1 PLAN STA: 0+00 - 2+04.68
C170 SCALE: 1" = 20'



NOTE:
UTILITIES ARE NOT SHOWN ON THE PROFILE VIEW OF THIS ROADWAY AT THIS TIME. THEY WILL BE ADDED AND SUBMITTED TO THE BUILDING DEPARTMENT IN CONJUNCTION WITH THE BUILDING PERMIT APPLICATION.

VILLAGE OF WAPPINGERS FALLS
PLANNING BOARD

FINAL APPROVAL DATE: _____

PB CHAIR: _____ DATE: _____

WITNESS: _____

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Revisions

PROJECT NUMBER: 2230010

DRAWN BY: TK

REVIEWED BY: CPL

ISSUED FOR: PLANNING BOARD APPROVAL

DATE: 12/7/22

DRAWING NAME:

PROFILES

DRAWING NUMBER:

C171

PROFILE LEGEND:

----- EXISTING GRADE
————— PROPOSED GRADE

ABBREVIATIONS:

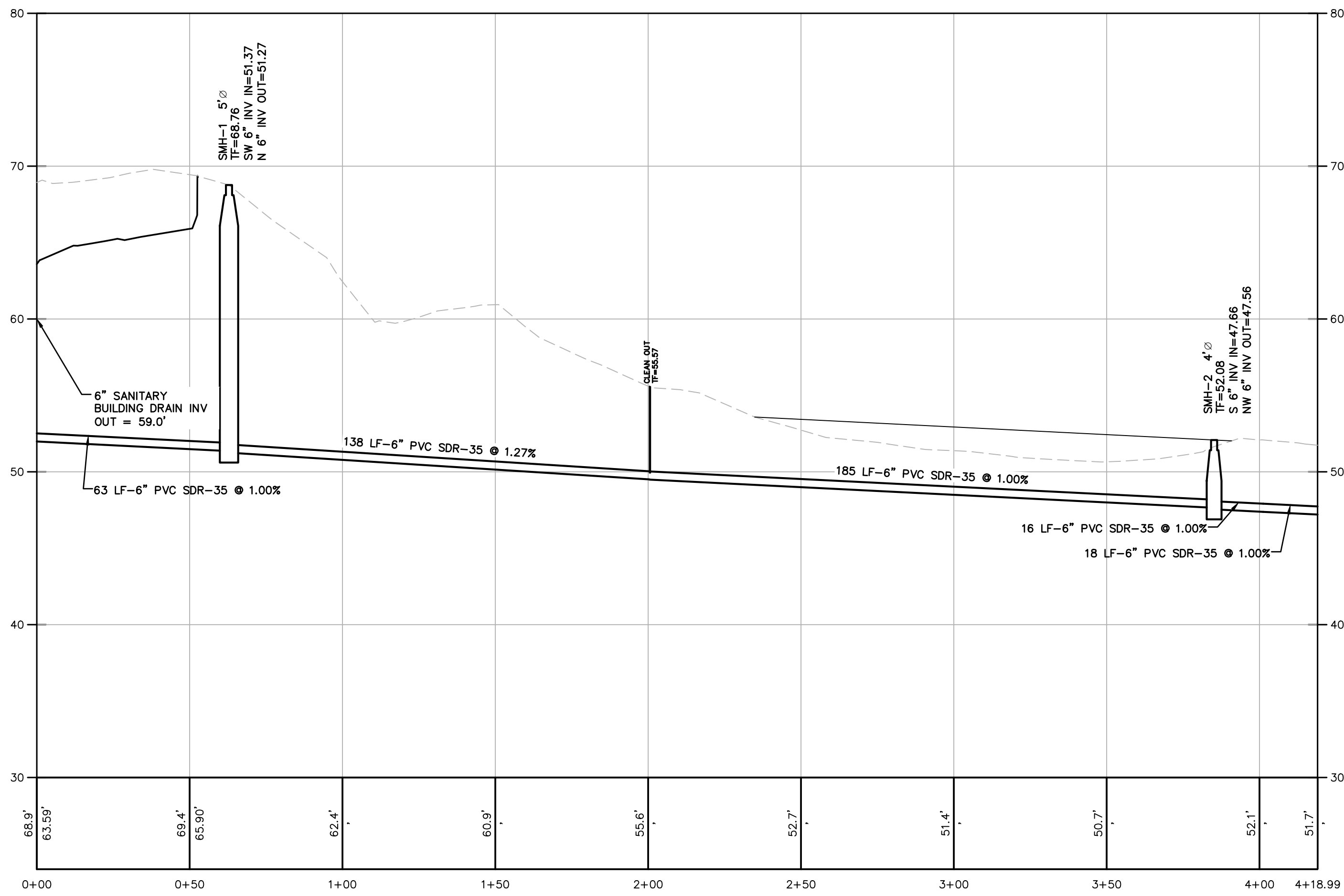
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PVI POINT OF VERTICAL INTERSECTION
PVT POINT OF VERTICAL TANGENCY
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DMH DRAINAGE MANHOLE
SMH SEWER MANHOLE
FES FAIRED END SECTION
CO CLEAN OUT
WSO WATER SHUT OFF
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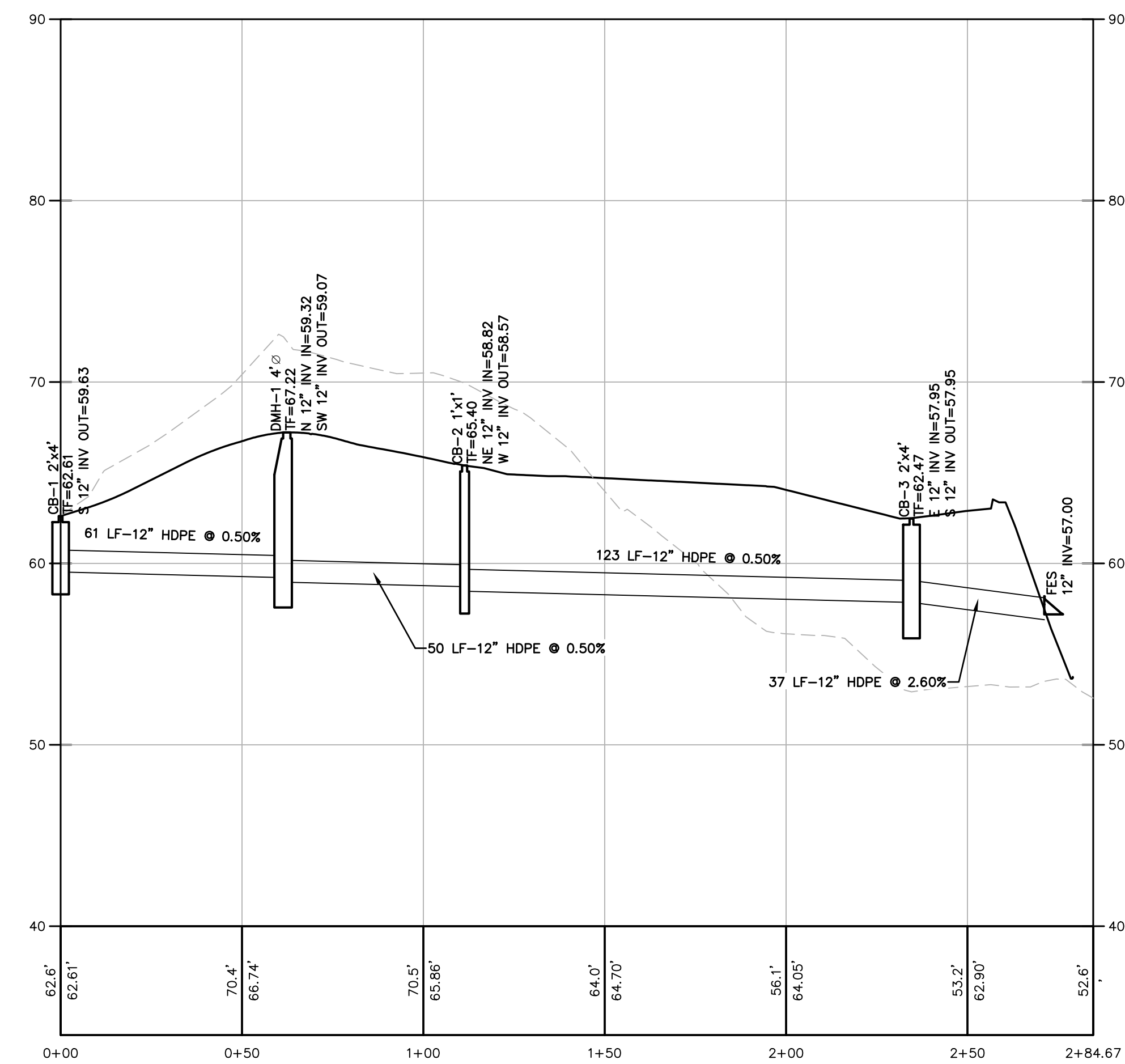
PIPES:

DI DUCTILE IRON PIPE
VC VITRIFIED CLAY
PVC POLYVINYLCHLORIDE PIPE
HDPE HIGH DENSITY POLYETHYLENE PIPE
CMP CORRUGATED METAL PIPE
RCP REINFORCED CONCRETE PIPE
SICPP SMOOTH INTERIOR CORRUGATED POLYETHYLENE PIPE



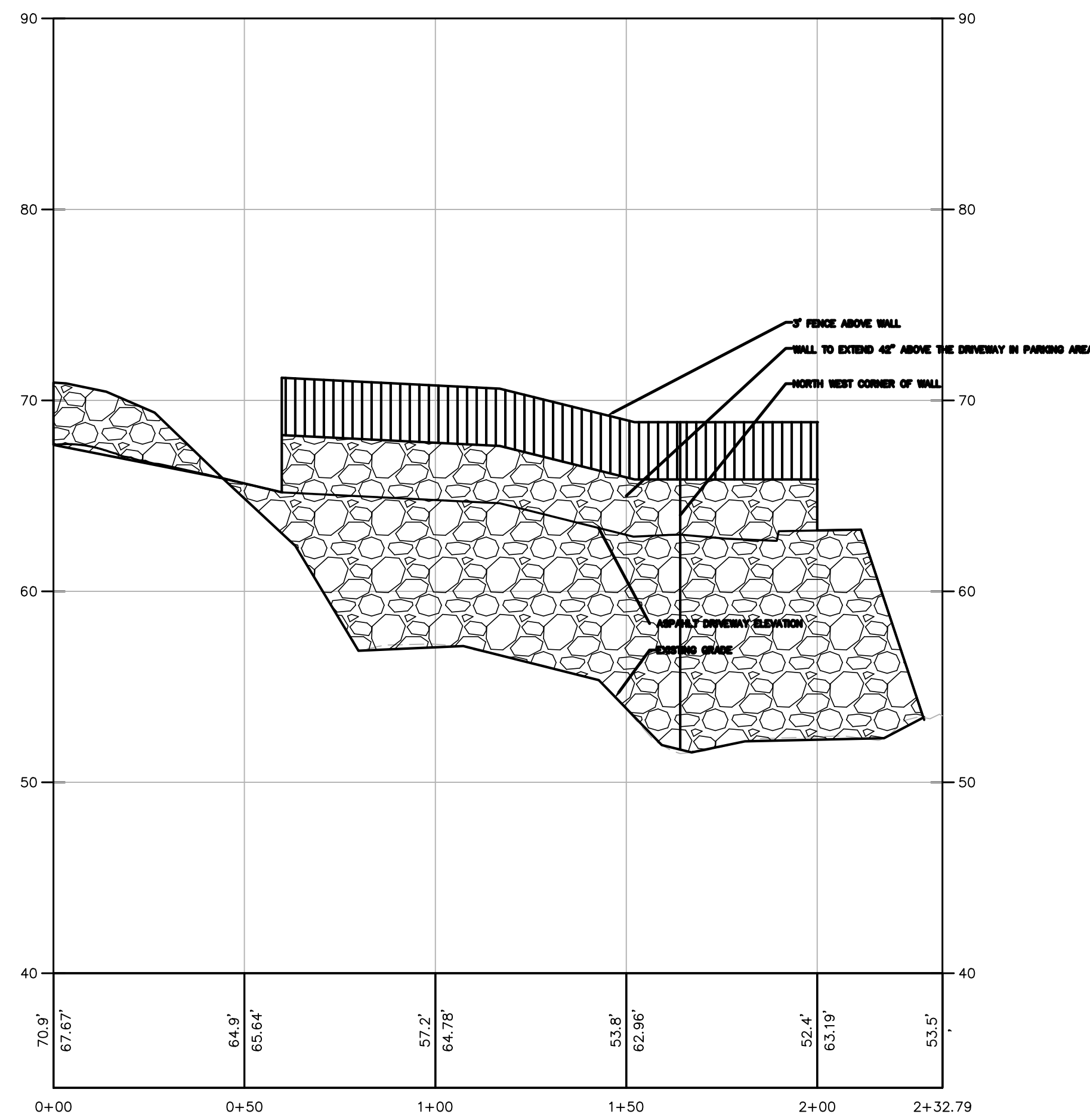
1 SEWER SERVICE PROFILE STA: 0+00 - 3+94.01

HORIZONTAL SCALE: 1" = 3'
VERTICAL SCALE: 1" = 30'



2 DRAINAGE PROFILE STA: 0+00 - 2+77.25

HORIZONTAL SCALE: 1" = 3'
VERTICAL SCALE: 1" = 30'



3 RETAINING WALL PROFILE STA: 0+00 - 2+32.79

HORIZONTAL SCALE: 1" = 3'
VERTICAL SCALE: 1" = 30'

VILLAGE OF WAPPINGERS FALLS
PLANNING BOARD

FINAL APPROVAL DATE: _____

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DRAWN BY: TK
REVIEWED BY: CPL

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DATE: 12/7/22

DRAWING NAME:

LANDSCAPING PLAN

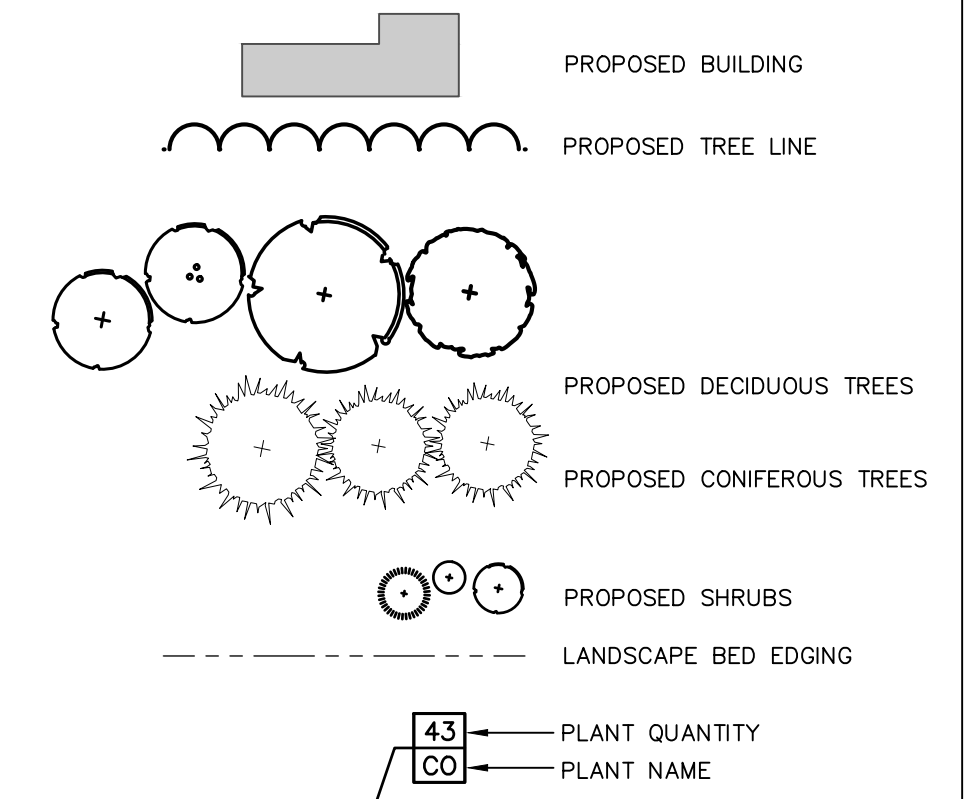
DRAWING NUMBER:

C180

LANDSCAPE MALIGNANCE NOTES:

1. THE OWNER OF RECORD SHALL MAINTAIN ALL LANDSCAPING AS SHOWN ON THE SITE PLAN THROUGHOUT THE DURING OF THE USE.

LANDSCAPING & LIGHTING LEGEND:

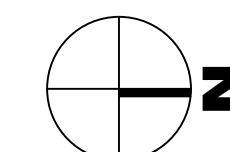


PLANT LIST

QTY	ABRV	BOTANICAL NAME	COMMON NAME	SIZE	COND	SPACING	REMARKS
TREES							
16	JK	Juniperus virginiana 'Skyrocket'	Skyrocket Eastern Red Cedar	6'-7'	B&B	As Shown	
2	PG	Picea glauca	White Spruce	4-6'	B&B	As Shown	
3	PS	Ginkgo biloba 'Princeton Sentry'	Princeton Sentry Columnar Ginkgo	6-8 ft	B&B	As Shown	
SHRUBS							
4	Bm	Buxus x 'Green Mountain'	'Green Mountain' Boxwood	24"-30" Ht.	Cont.	3' O.C.	
7	Sk	Syringa 'Panda' Boomerang	Boomerang Purple Lilac	#5	Cont.	As Shown	
9	Xr	Ilex verticillata 'Nana'	Red Sprite Winterberry	18"-24"	Cont.	As Shown	
2	Tm	Thuja occidentalis 'Hetz Midget'	American Arborvitae	18"-24"	Cont.	As Shown	

1 LANDSCAPING PLAN

C180 SCALE: 1" = 20'



VILLAGE OF WAPPINGERS FALLS

PLANNING BOARD

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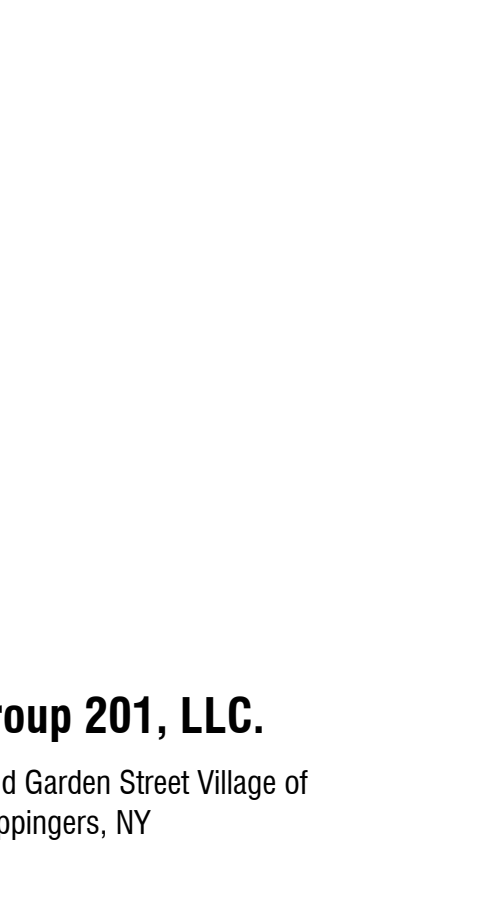
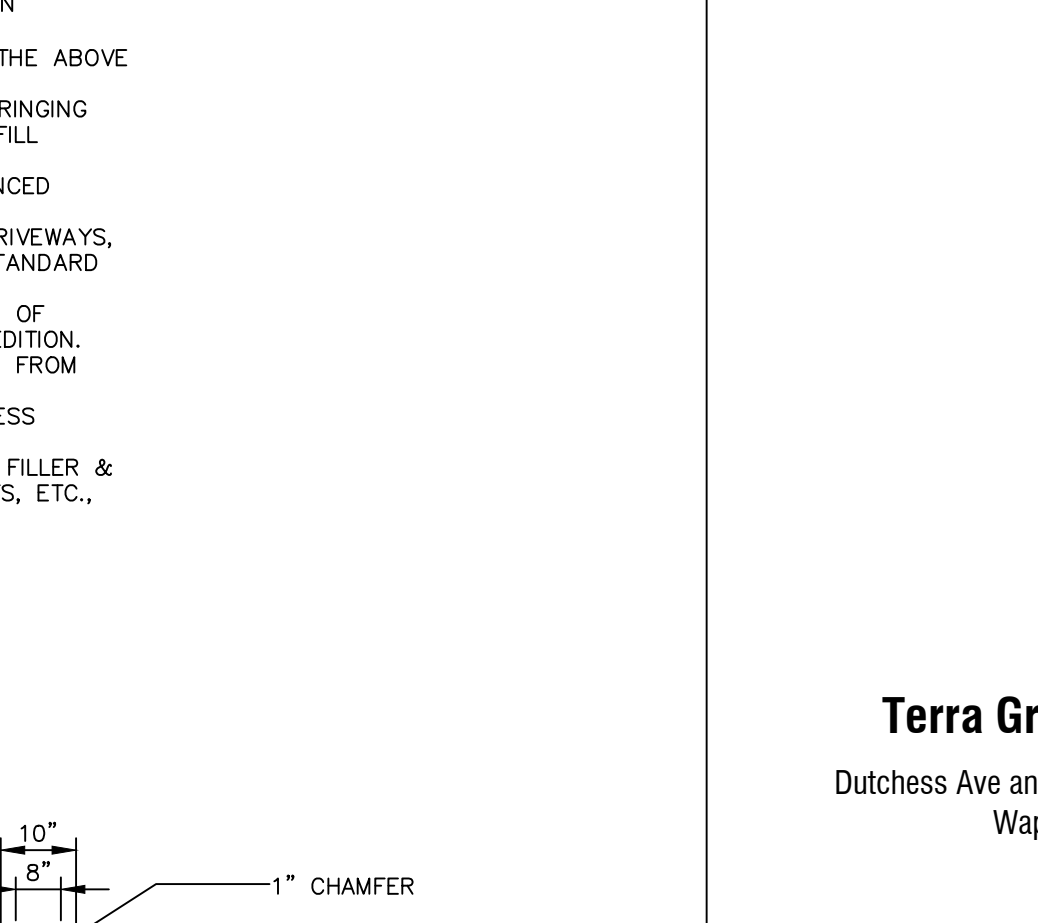
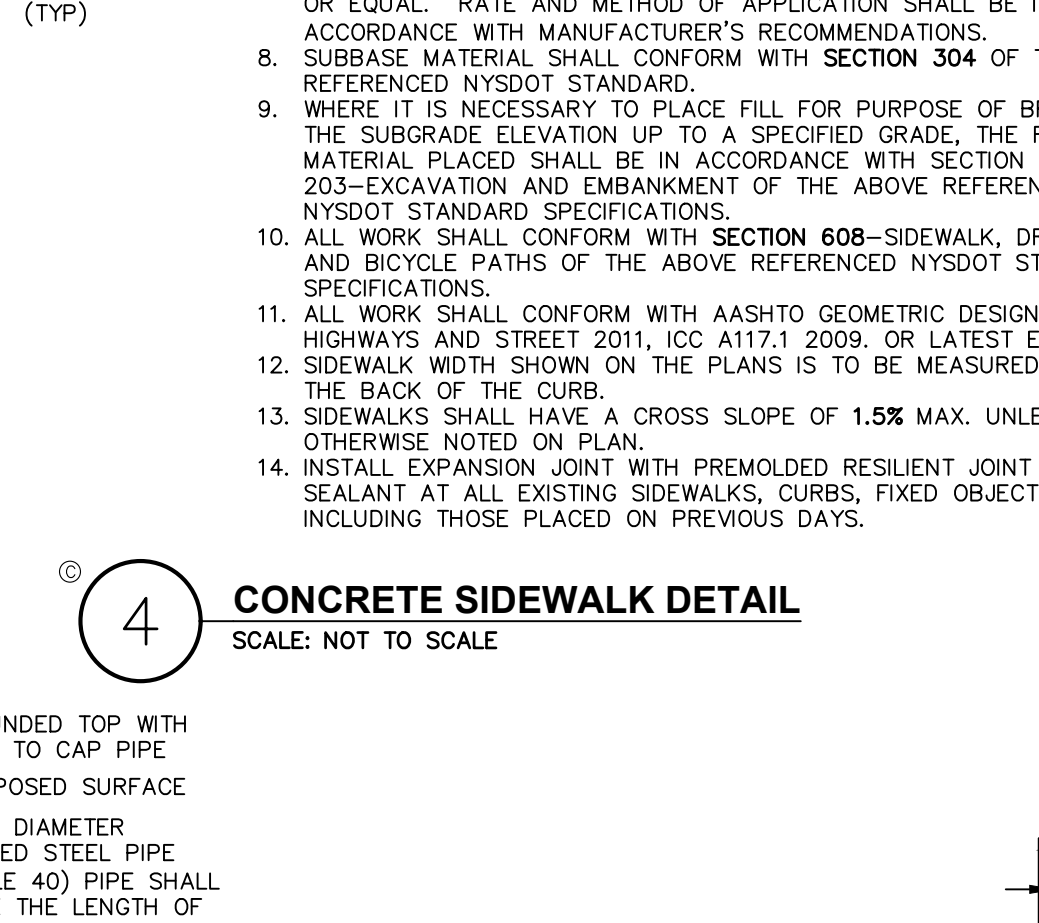
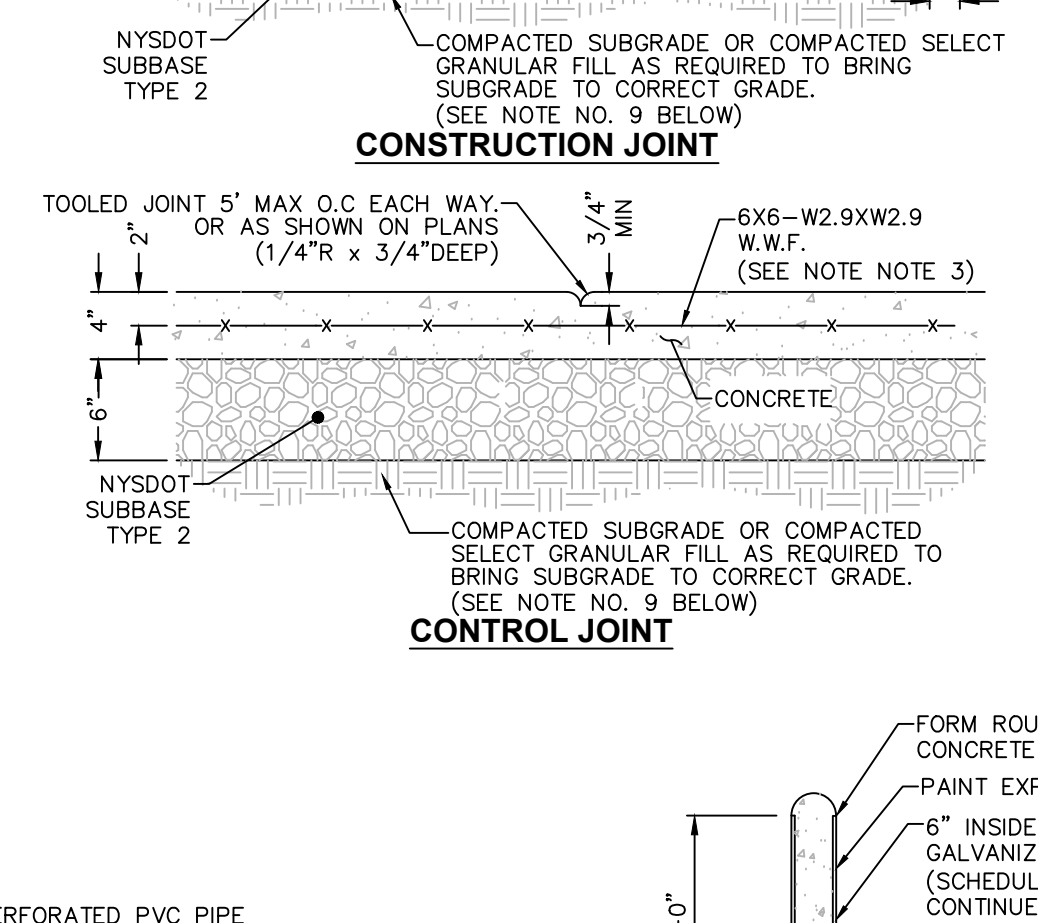
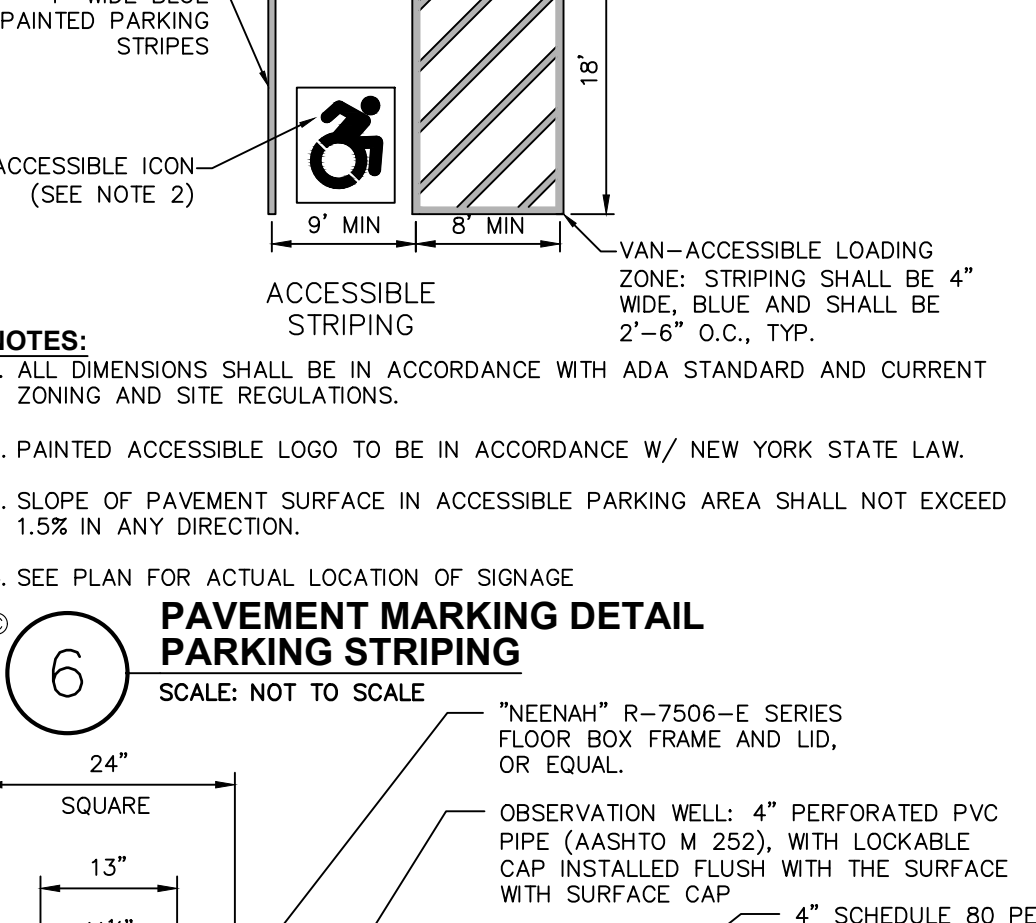
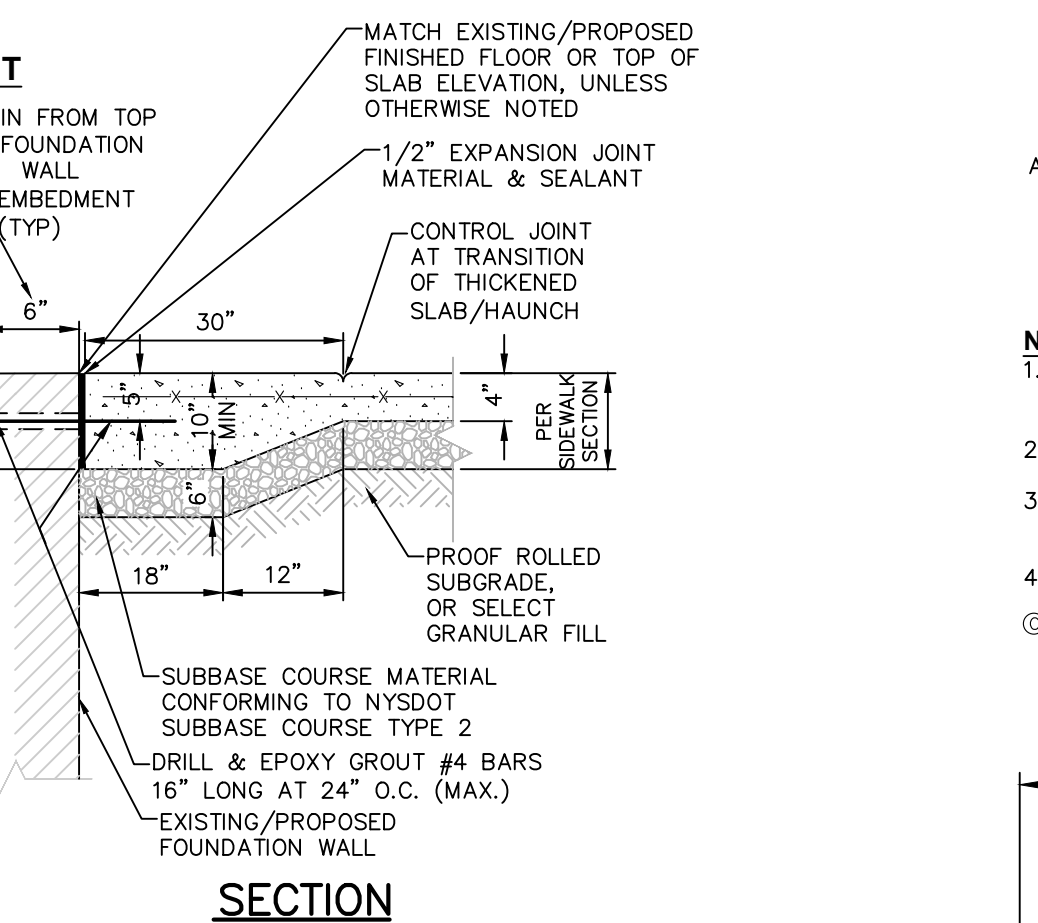
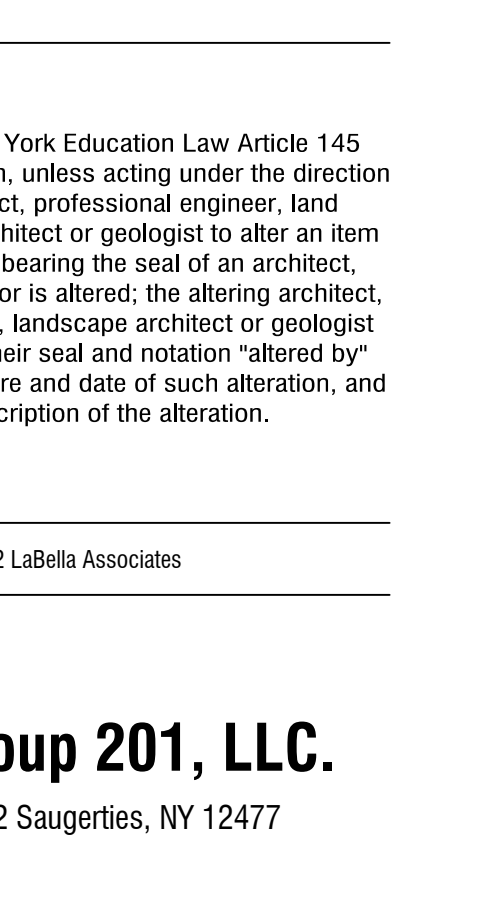
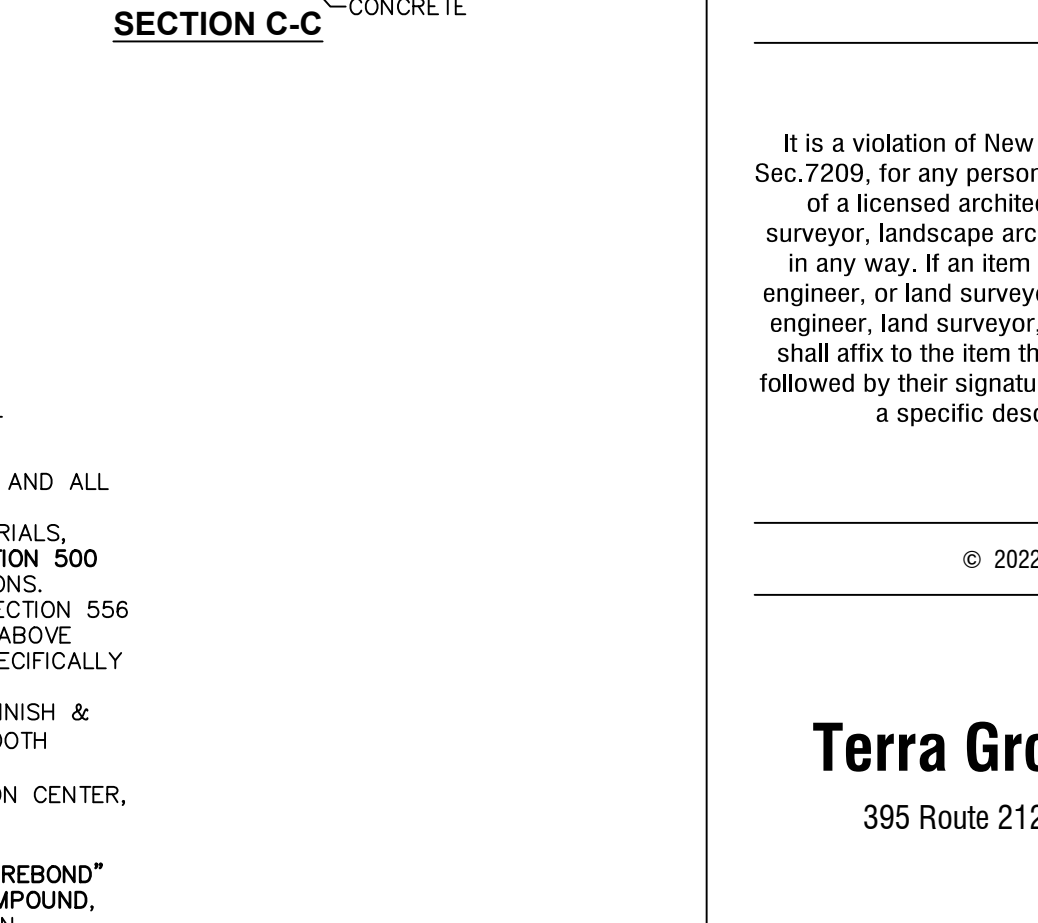
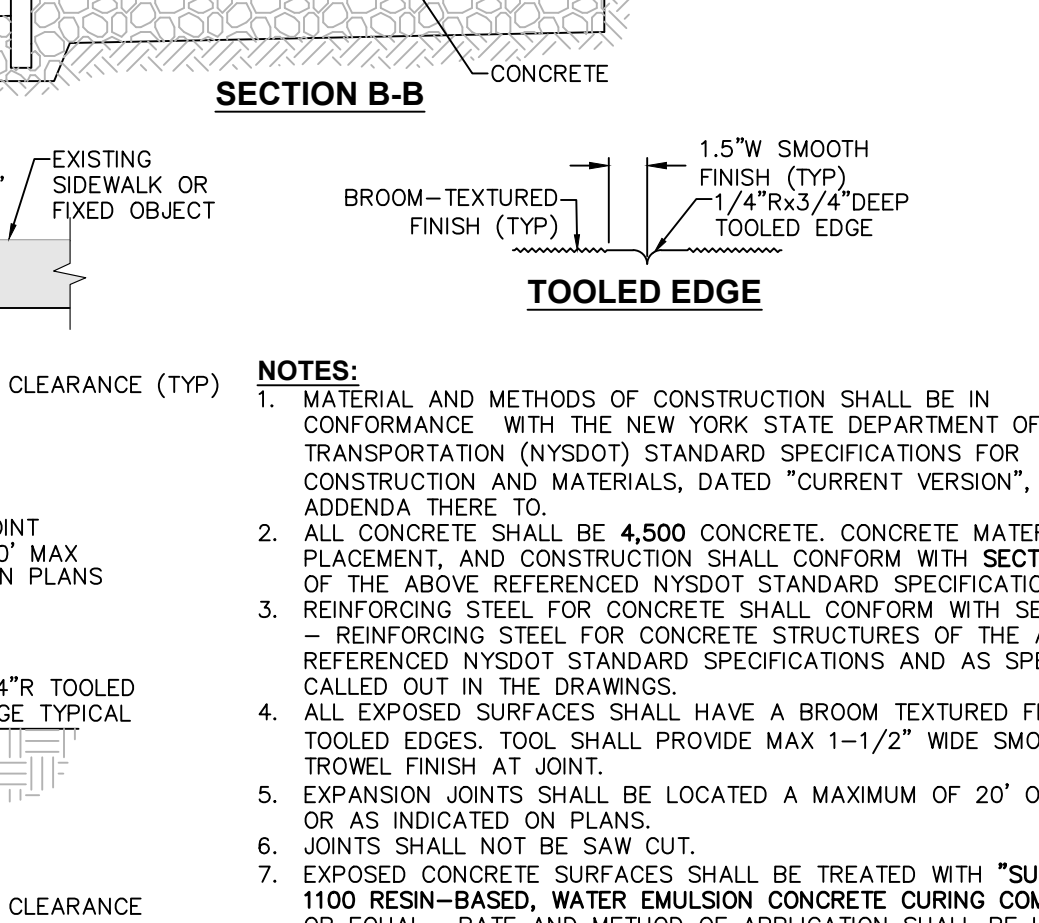
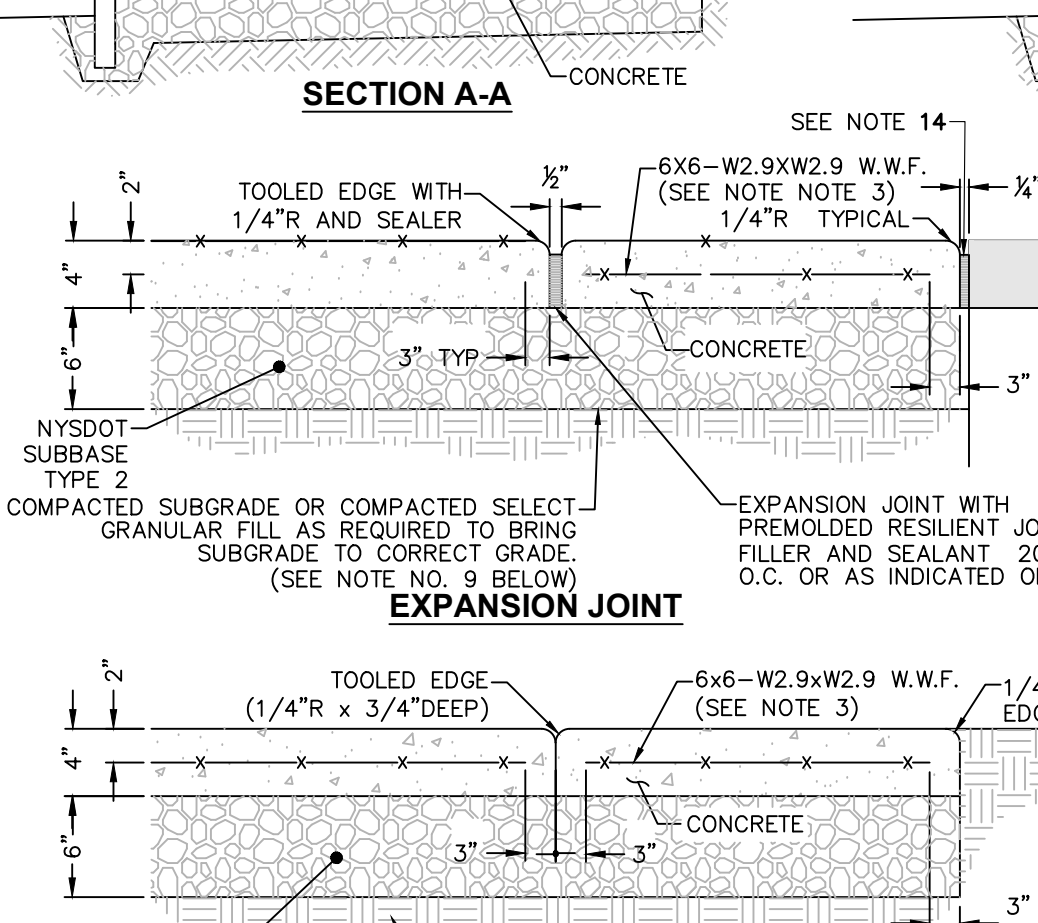
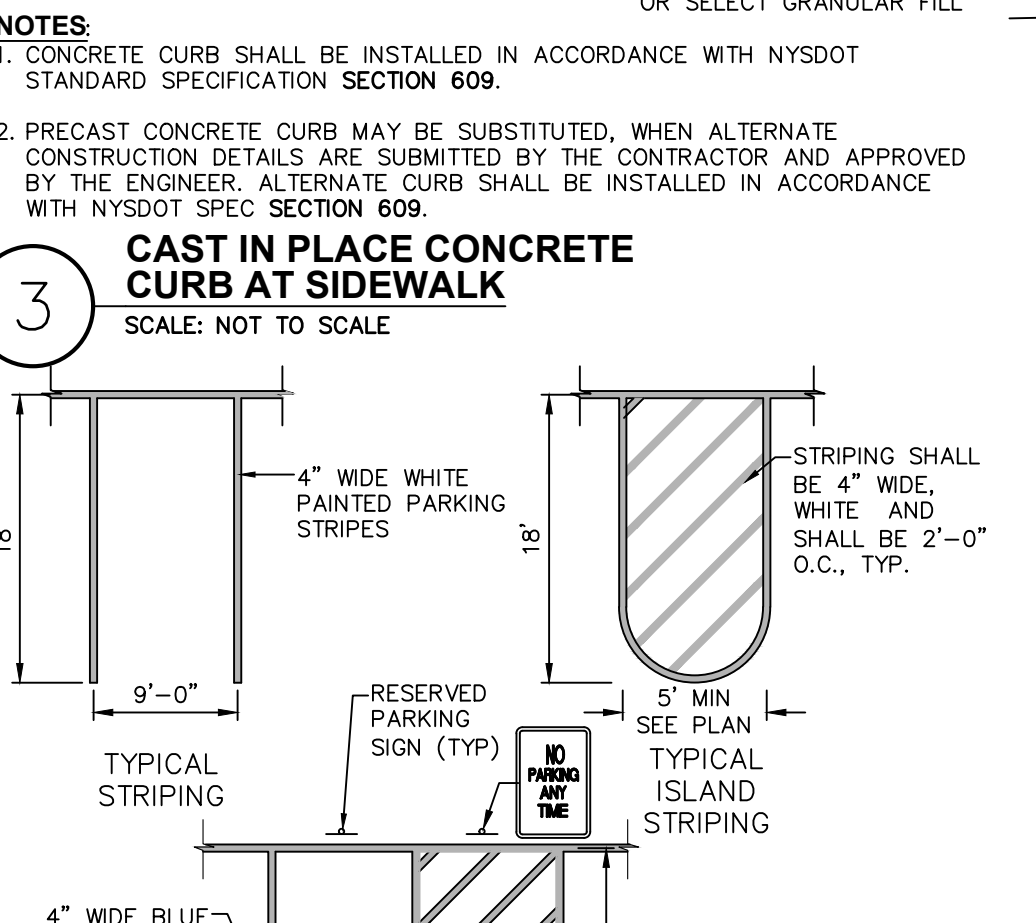
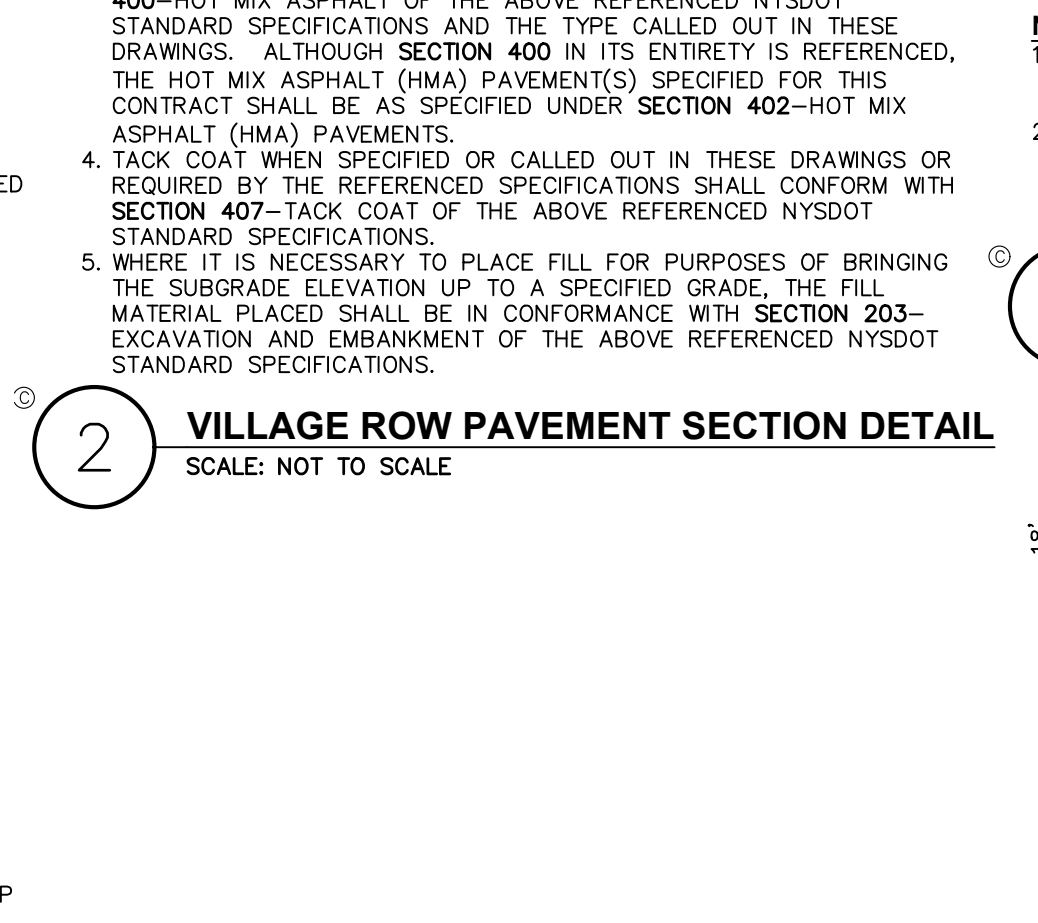
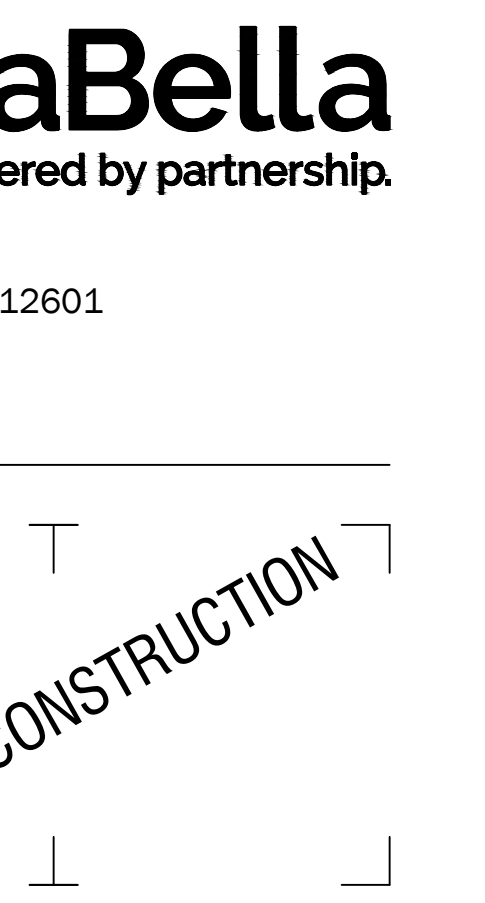
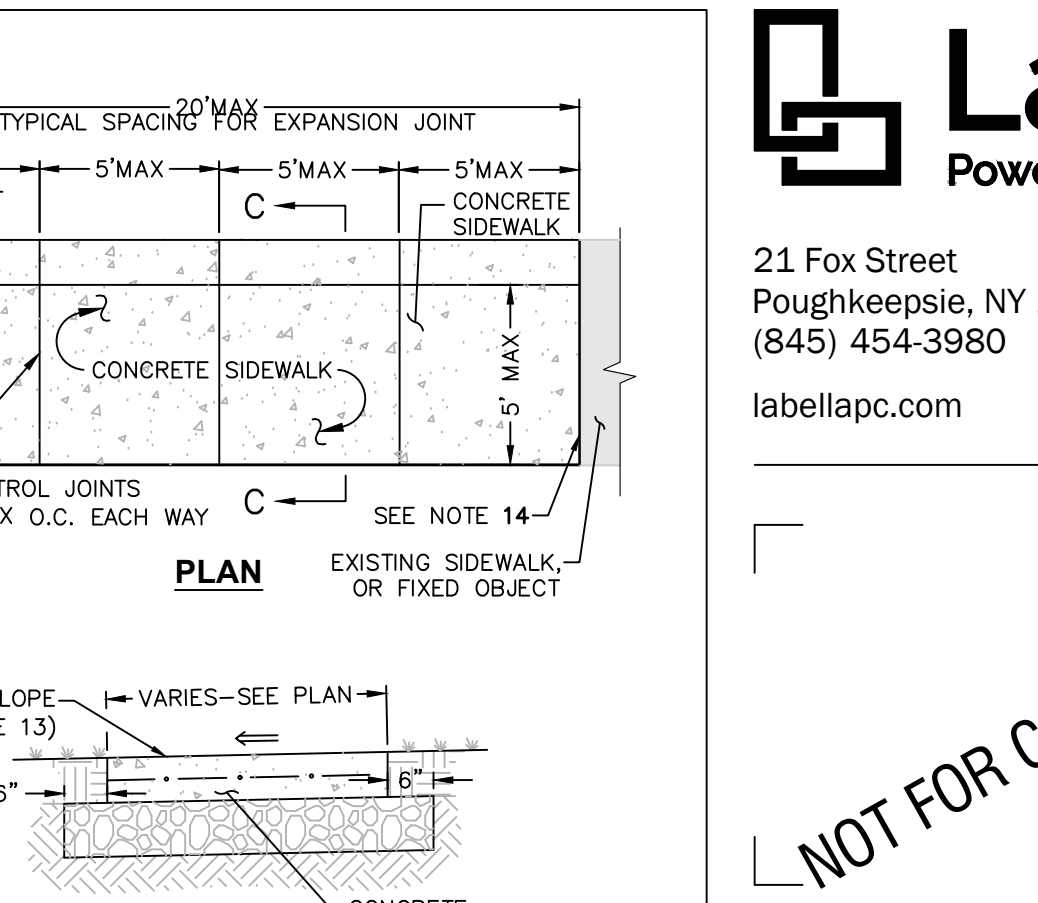
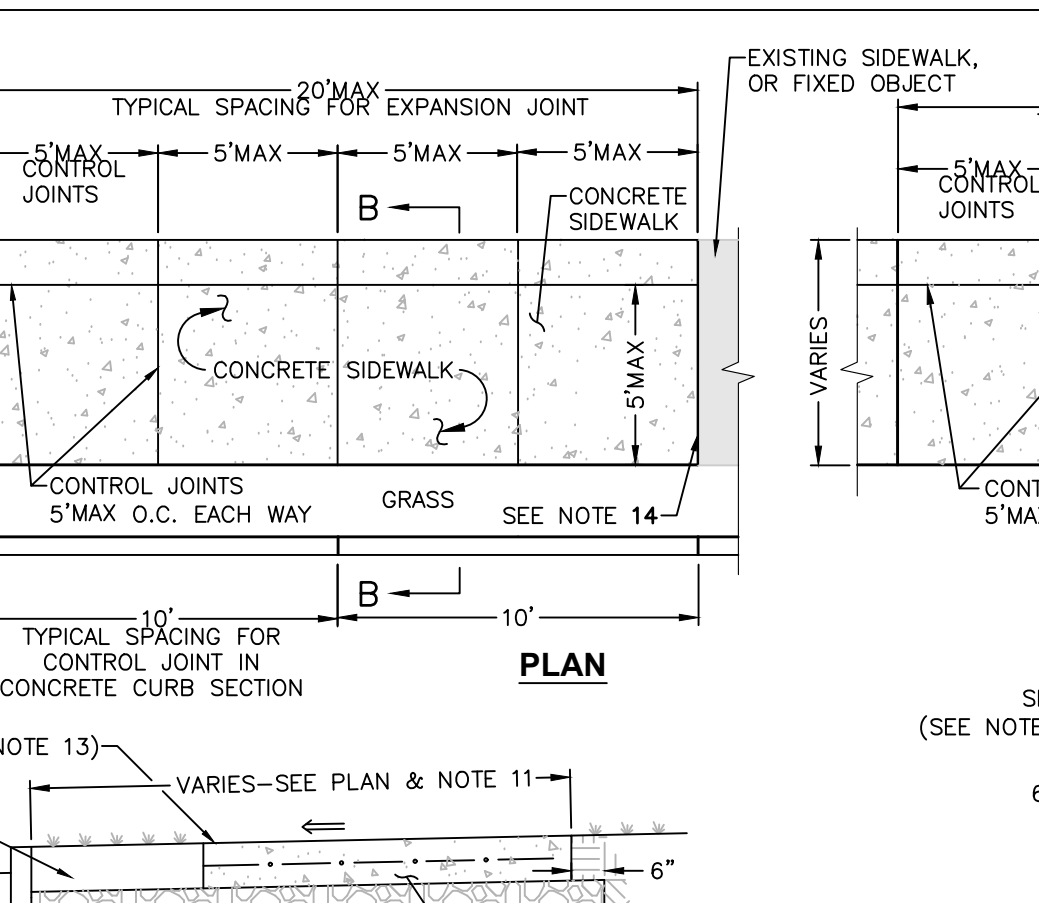
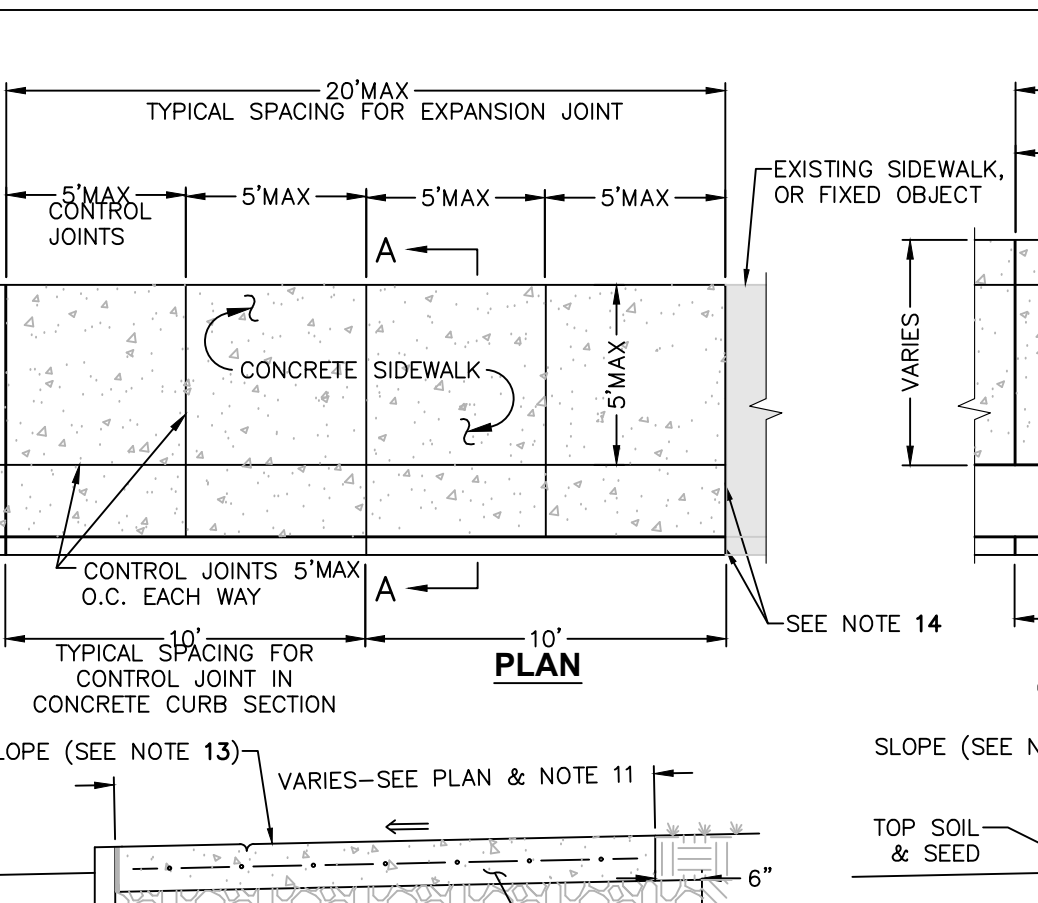
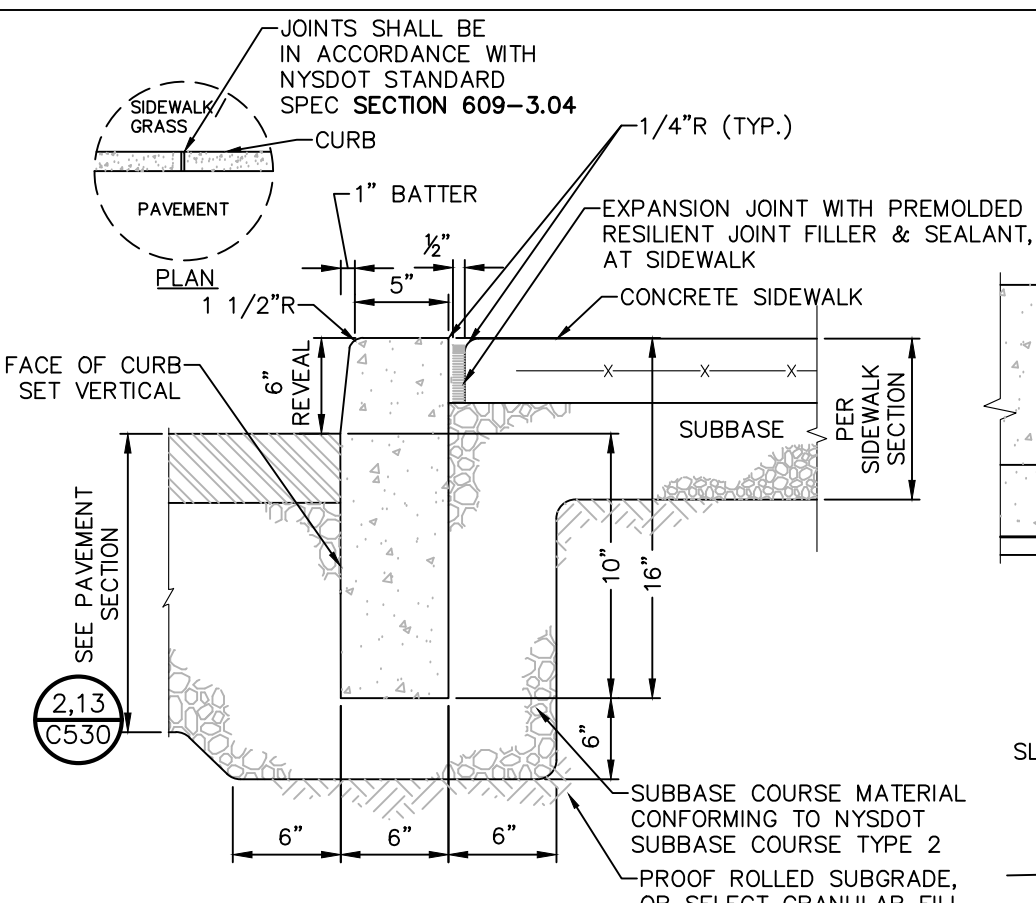
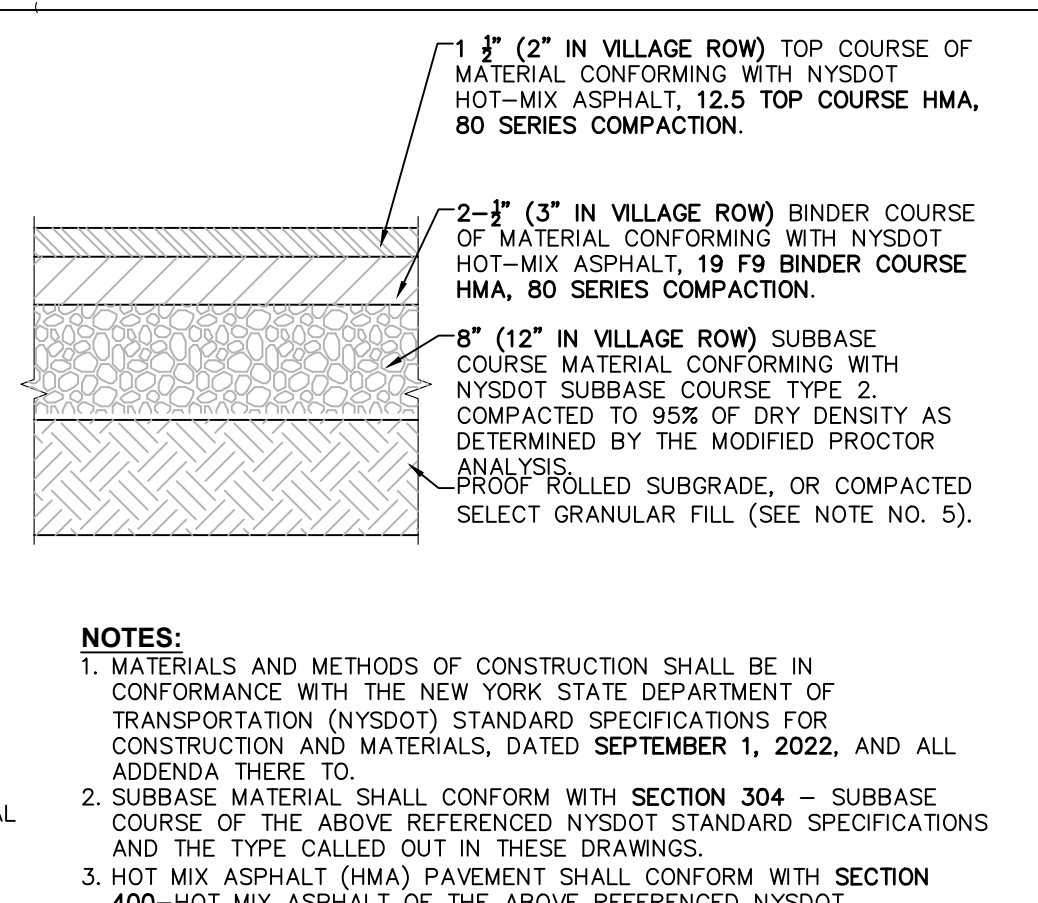
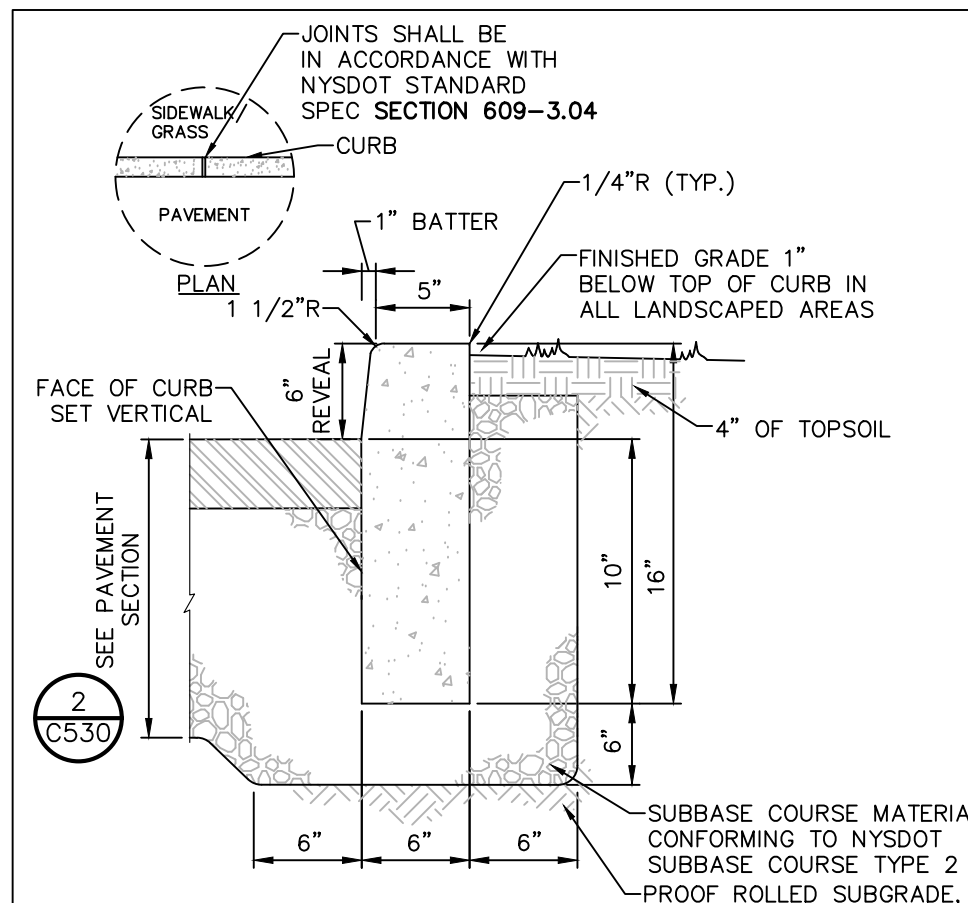
Terra Group 201, LLC.
Dutchess Ave and Garden Street Village of Wappingers, NY

NO.	DATE:	DESCRIPTION:
2	3/15/23	Village Comments
1	2/8/23	Village Comments
NO.	DATE:	DESCRIPTION:
Revisions		
PROJECT NUMBER:		2230010
DRAWN BY:		TK
REVIEWED BY:		CPL
ISSUED FOR: PLANNING BOARD APPROVAL		
DATE:		12/7/22
DRAWING NAME:		

SITE DETAILS

DRAWING NUMBER:

C530



NOTES:

1. MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION (NYSDOT) STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, DATED SEPTEMBER 1, 2022, AND ALL ADDENDA THERE TO.
2. SUBBASE MATERIAL SHALL CONFORM WITH SECTION 304 - SUBBASE COURSE OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS AND THE TYPE CALLED OUT IN THESE DRAWINGS.
3. HOT MIX ASPHALT (HMA) PAVEMENT SHALL CONFORM WITH SECTION 400 - HOT MIX ASPHALT OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS AND THE TYPE CALLED OUT IN THESE DRAWINGS. ALTHOUGH SECTION 400 IN ITS ENTIRETY IS REFERENCED, THE HOT MIX ASPHALT (HMA) PAVEMENT(S) SPECIFIED FOR THIS CONTRACT SHALL BE AS SPECIFIED UNDER SECTION 402-HOT MIX ASPHALT (HMA) PAVEMENTS.
4. TACK COAT WHEN SPECIFIED OR CALLED OUT IN THESE DRAWINGS OR REQUIRED BY THE REFERENCED SPECIFICATIONS SHALL CONFORM WITH SECTION 407-TACK COAT OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS.
5. WHERE IT IS NECESSARY TO PLACE FILL FOR PURPOSES OF BRINGING THE SUBGRADE ELEVATION UP TO A SPECIFIED GRADE, THE FILL MATERIAL PLACED SHALL BE IN CONFORMANCE WITH SECTION 203-EXCAVATION AND EMBANKMENT OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS.

NOTES:

1. CONCRETE CURB SHALL BE INSTALLED IN ACCORDANCE WITH NYSDOT STANDARD SPECIFICATION SECTION 609.
2. PRECAST CONCRETE CURB MAY BE SUBSTITUTED, WHEN ALTERNATE CONSTRUCTION DETAILS ARE SUBMITTED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. ALTERNATE CURB SHALL BE INSTALLED IN ACCORDANCE WITH NYSDOT SPEC SECTION 609.
3. CONCRETE CURB SHALL BE INSTALLED IN ACCORDANCE WITH NYSDOT STANDARD SPECIFICATION SECTION 609.
4. PRECAST CONCRETE CURB MAY BE SUBSTITUTED, WHEN ALTERNATE CONSTRUCTION DETAILS ARE SUBMITTED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. ALTERNATE CURB SHALL BE INSTALLED IN ACCORDANCE WITH NYSDOT SPEC SECTION 609.

NOTES:

1. MATERIAL AND METHODS OF CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION (NYSDOT) STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, DATED "CURRENT VERSION", AND ALL ADDENDA THERE TO.
2. ALL CONCRETE SHALL BE 4,500 CONCRETE. CONCRETE MATERIALS, PLACEMENT, AND CONSTRUCTION SHALL CONFORM WITH SECTION 500 OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS.
3. REINFORCING STEEL FOR CONCRETE SHALL CONFORM WITH SECTION 556 REINFORCING STEEL FOR CONCRETE STRUCTURES OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS AND AS SPECIFICALLY CALLED OUT IN THE DRAWINGS.
4. ALL EXPOSED SURFACES SHALL HAVE A BROOM TEXTURED FINISH & TOOLED EDGES. TOOL SHALL PROVIDE MAX 1-1/2" WIDE SMOOTH TROWEL FINISH AT JOINT.
5. EXPANSION JOINTS SHALL BE LOCATED A MAXIMUM OF 20' ON CENTER, OR AS INDICATED ON PLANS.
6. JOINTS SHALL NOT BE SAW CUT.
7. EXPOSED CONCRETE SURFACES SHALL BE TREATED WITH "SUREBOND" 1100 RESIN-BASED, WATER EMULSION CONCRETE CURING COMPOUND, OR EQUAL. RATE AND METHOD OF APPLICATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
8. SUBBASE MATERIAL SHALL CONFORM WITH SECTION 304 OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS.
9. WHERE IT IS NECESSARY TO PLACE FILL FOR PURPOSE OF BRINGING THE SUBGRADE ELEVATION UP TO A SPECIFIED GRADE, THE FILL MATERIAL PLACED SHALL BE IN ACCORDANCE WITH SECTION 203-EXCAVATION AND EMBANKMENT OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS.
10. ALL WORK SHALL CONFORM WITH SECTION 608-SIDEWALK, DRIVEWAYS, AND BICYCLE PATHS OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS.
11. ALL WORK SHALL CONFORM WITH AASHTO GEOMETRIC DESIGN OF HIGHWAYS AND STREET 2011, ICC A1717.2009, OR LATEST EDITION.
12. SIDEWALK WIDTH SHOWN ON THE PLANS IS TO BE MEASURED FROM THE BACK OF THE CURB.
13. SIDEWALKS SHALL HAVE A CROSS SLOPE OF 1.5% MAX. UNLESS OTHERWISE NOTED ON PLANS.
14. INSTALL EXPANSION JOINT WITH PREMOLDED RESILIENT JOINT FILLER & SEALANT AT ALL EXISTING SIDEWALKS, CURBS, FIXED OBJECTS, ETC., INCLUDING THOSE PLACED ON PREVIOUS DAYS.

NOTES:

1. ALL DIMENSIONS SHALL BE IN ACCORDANCE WITH ADA STANDARD AND CURRENT ZONING AND SITE REGULATIONS.
2. PAINTED ACCESSIBLE LOGO TO BE IN ACCORDANCE W/ NEW YORK STATE LAW.
3. SLOPE OF PAVEMENT SURFACE IN ACCESSIBLE PARKING AREA SHALL NOT EXCEED 1.5% IN ANY DIRECTION.
4. SEE PLAN FOR ACTUAL LOCATION OF SIGNAGE.

NOTES:

1. BOLLARD FINISH: PREPARE GALVANIZED COATING TO RECEIVE PAINTED FINISH. APPLY (1) COAT OF RUST INHIBITOR PRIMER. APPLY (2) COATS OF GLOSS ENAMEL (COLOR TO BE SELECTED BY THE OWNER.)
2. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,500 PSI @ 28 DAYS.
3. ALL CONCRETE SHALL HAVE A SLUMP OF NO GREATER THAN 4" (WITH A TOLERANCE OF +/- 1")
4. ALL CONCRETE SHALL HAVE A 5% ENTRAINED AIR (WITH A TOLERANCE OF +/- 1%) CONFORMING WITH ASTM C260.

NOTES:

1. RESTORE LAWN DISTURBED BY CONSTRUCTION AND PROVIDE NEW 4" MINIMUM DEPTH MECHANICALLY SCREENED TOPSOIL (TYP)
2. GEOTEXTILE FABRIC - MIRAFI 500X OR APPROVED EQUAL

STRIPING NOTES:

1. ALL STRIPING SHALL CONFORM TO THE LATEST EDITION OF THE NYSDOT STANDARD SPECIFICATIONS, SECTION 640 AND THE "NATIONAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" - 2009 EDITION AND THE "NYS SUPPLEMENT."
2. STRIPE PAVEMENT AS INDICATED ON THE PLANS AND/OR IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REQUIREMENTS.
3. STRIPING WORK WILL BE REVIEWED AND ACCEPTED BY THE AUTHORITY HAVING JURISDICTION.
4. COLOR: DRIVE LANE DIVIDERS - WHITE OR AOBÉ NO PARKING ZONE WARNINGS - WHITE OR AOBÉ PARKING DIVIDERS - WHITE OR AOBÉ WALKING LINES - WHITE OR AOBÉ ACCESSIBLE PARKING LINES & SYMBOL - BLUE

NOT FOR CONSTRUCTION

It is a violation of New York Education Law Article 145 Sec. 7209, for any person, unless acting under the direction of a licensed architect, professional engineer, land surveyor, landscape architect or geologist to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, land surveyor, landscape architect or geologist shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

Terra Group 201, LLC.
395 Route 212 Saugerties, NY 12477

Terra Group 201, LLC.
Dutchess Ave and Garden Street Village of Wappingers, NY

2	3/15/23	Village Comments
1	2/8/23	Village Comments
NO.	DATE:	DESCRIPTION:

PROJECT NUMBER: 2230010

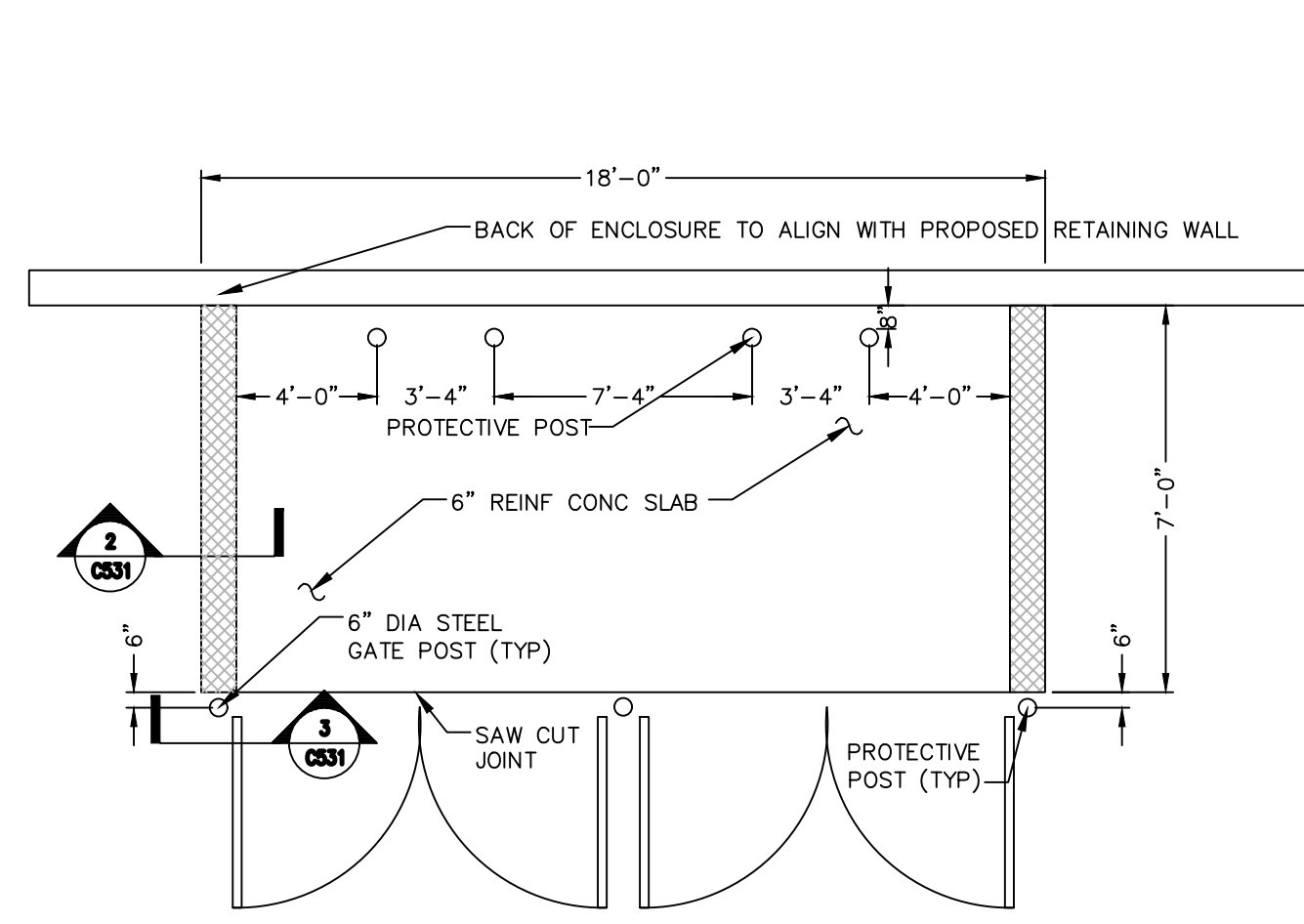
DRAWN BY: TK
REVIEWED BY: CPL

ISSUED FOR: PLANNING BOARD APPROVAL

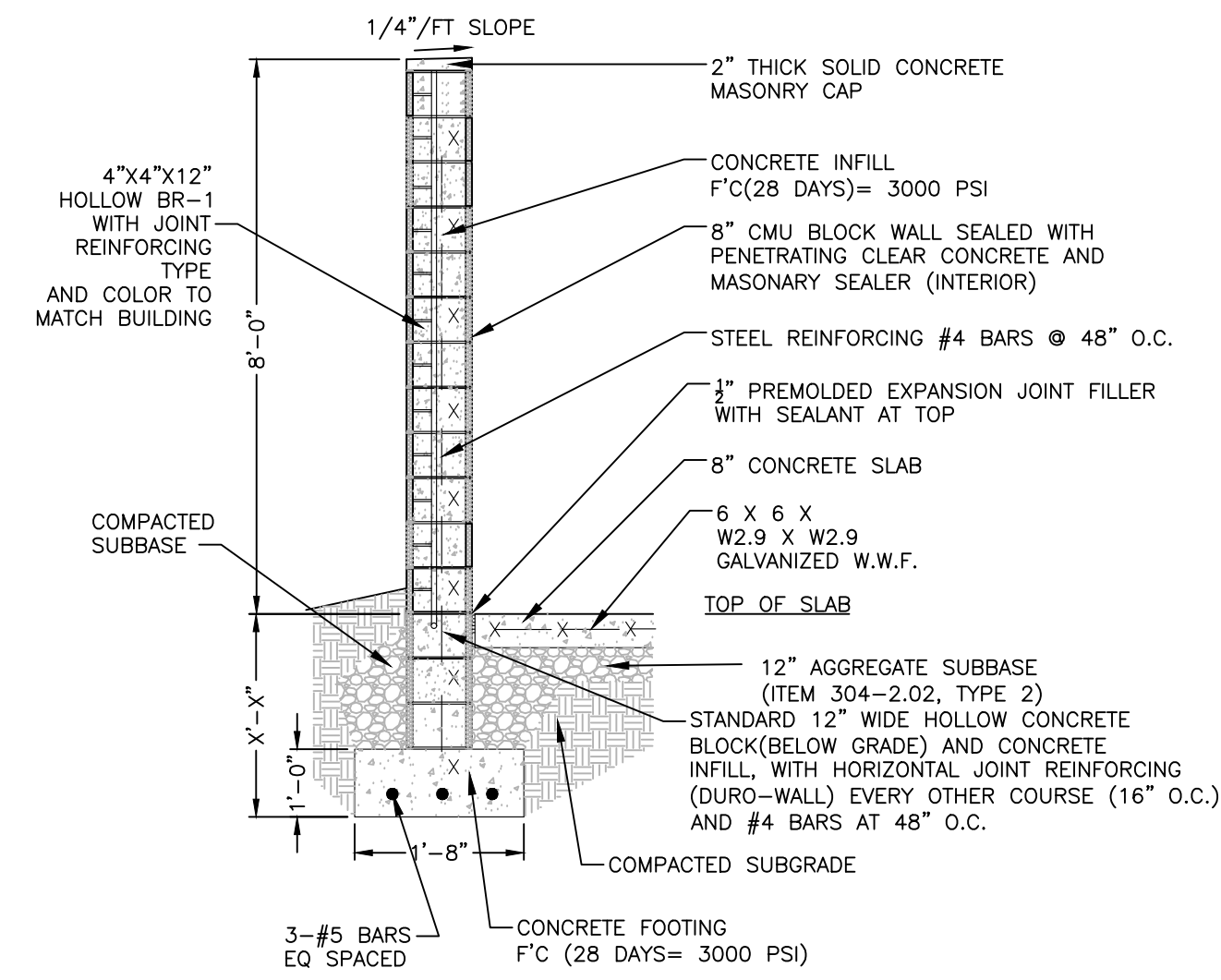
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DRAWING NAME:

SITE DETAILS 2

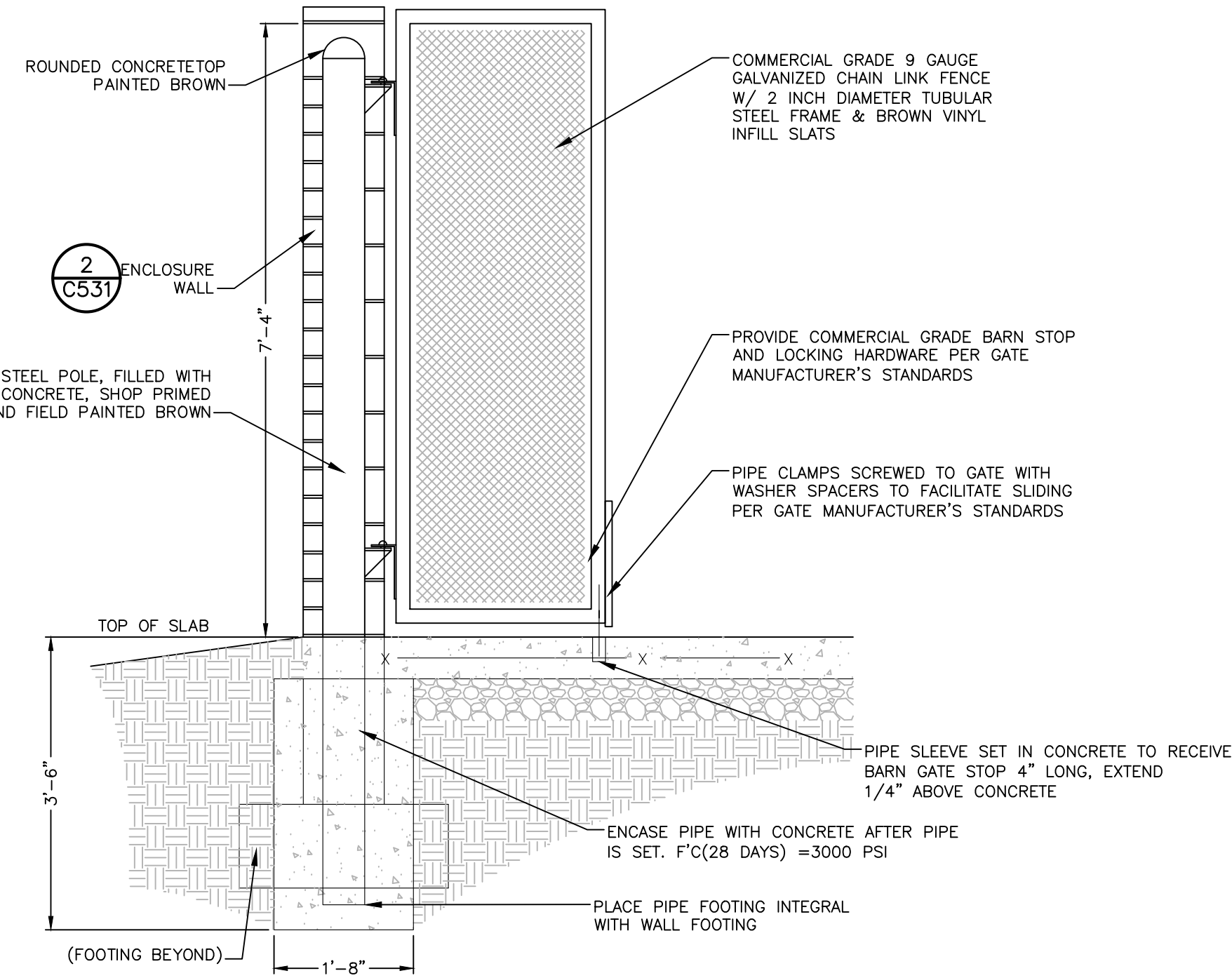


NOTE: SEE SITE PLAN FOR CONTINUATION OF CURBS AND FOR ADDITIONAL INFORMATION.
1 DUMPSTER PAD & ENCLOSURE DETAIL
SCALE: NOT TO SCALE

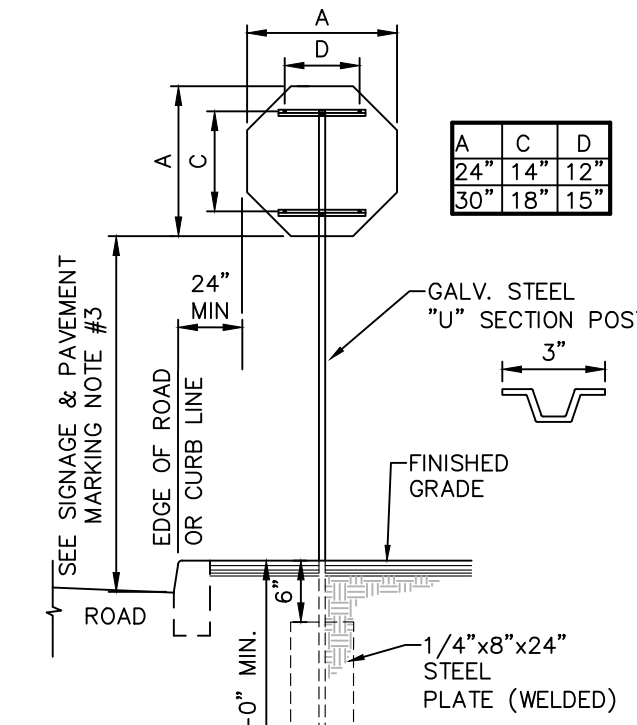


NOTE:
1. ITEM NUMBERS, REFER TO NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS.
2. ALL CONCRETE FOR DUMPSTER PADS SHALL BE 4000 PSI @ 28 DAYS WITH BROOM FINISH

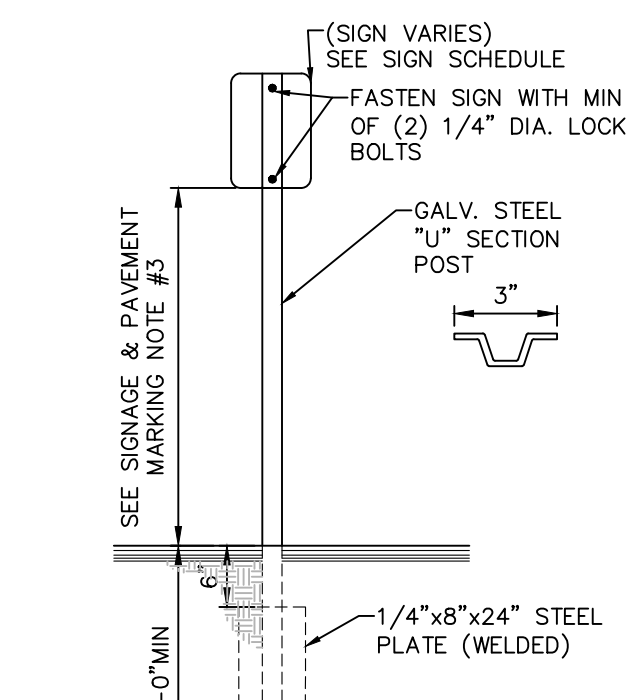
2 DUMPSTER PAD & ENCLOSURE DETAIL
SCALE: NOT TO SCALE



3 DUMPSTER PAD & ENCLOSURE DETAIL
SCALE: NOT TO SCALE



4 SINGLE POST STOP SIGN MOUNTING DETAIL
SCALE: NOT TO SCALE



5 SINGLE POST SIGN MOUNTING DETAIL
SCALE: NOT TO SCALE

SIGN NO.	SIGN FACE	MUTCD NUMBER	MIN SIZE	COLORS BCK GRND	LEGEND	MOUNTING
①	STOP	R1-1	30"x30"	RED	WHITE	④ (C5.31)
②	RESERVED PARKING	R7-80	12"x18"	WHITE/BLUE	GREEN/WHITE	⑤ (C5.31)
③	NO PARKING ANY TIME	R7-1	12"x18"	WHITE	RED	⑤ (C5.31)

6 MUTCD SIGN SCHEDULE
SCALE: NOT TO SCALE

SIGNAGE NOTES:
1. ALL SIGNS SHALL CONFORM TO THE LATEST EDITION OF THE NYS DOT STANDARD SPECIFICATIONS, SECTION 645 AND THE "NATIONAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" - 2009 EDITION AND THE "NYS SUPPLEMENT."
2. SIGN MOUNTING HEIGHT SHALL BE A MINIMUM OF 7'. MINIMUM MOUNTING HEIGHT MAY BE ADJUSTED ONLY IN ACCORDANCE WITH PROVISIONS OUTLINED IN THE "NATIONAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" - 2009 EDITION AND THE "NYS SUPPLEMENT."
3. SIGN POST SHALL BE IN ACCORDANCE W/ NYS DOT STANDARD SPECS SECTION 730.

VILLAGE OF WAPPINGERS FALLS
PLANNING BOARD

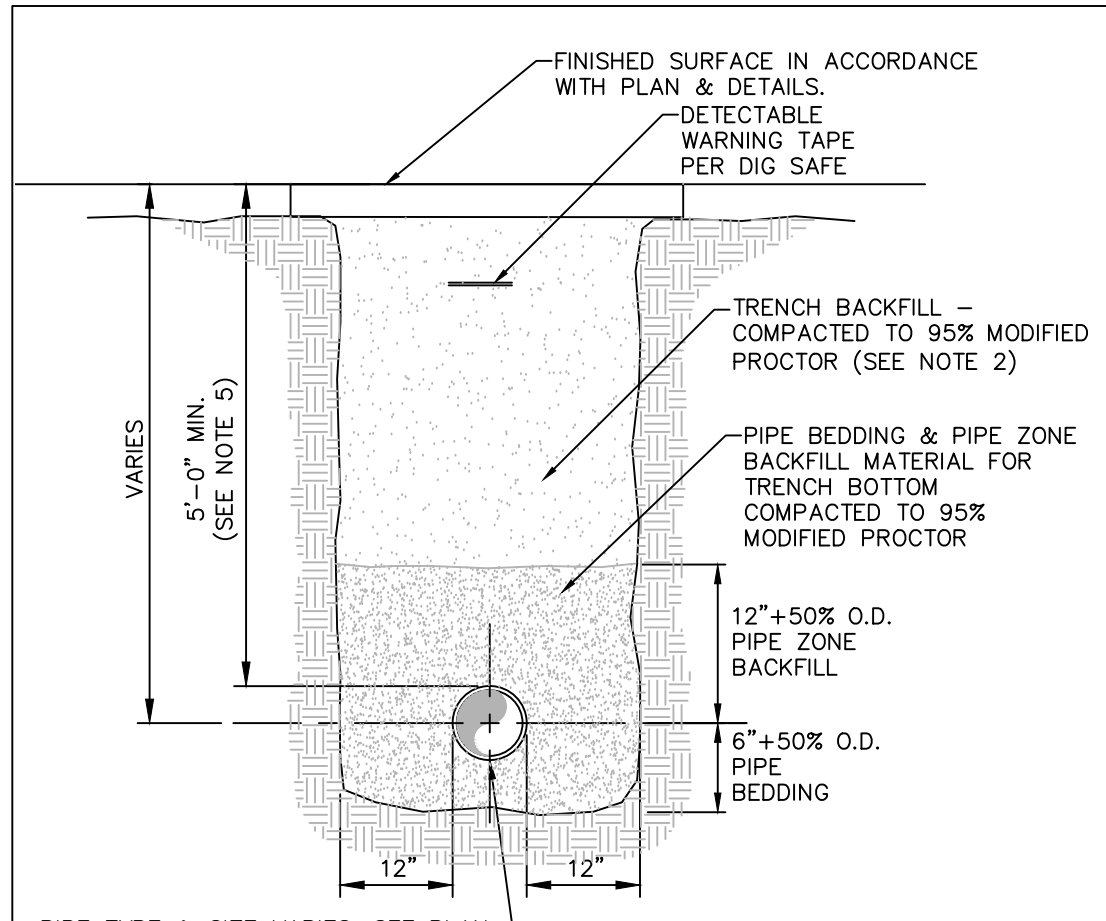
FINAL APPROVAL DATE: _____

PB CHAIR: _____ DATE: _____

WITNESS: _____

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PIPE TYPE & SIZE VARIES. SEE PLAN

NOTES:

- PIPE BEDDING & PIPE ZONE BACKFILL SHALL BE A NATURAL RUN-OF-BANK (R.O.B.) SAND OR A MIXTURE OF CRUSHED STONE AND GRAVEL, FREE OF SOFT, NONDURABLE PARTICLES, ORGANIC MATERIALS AND ELONGATED PARTICLES, AND SHALL BE WELL GRADED FROM FINE TO COARSE PARTICLES. BEDDING GRADATIONS SHALL BE APPROVED BY THE ENGINEER AND SHALL MEET THE FOLLOWING GRADATION REQUIREMENTS:

SIEVE DESIGNATION	% PASSING
3/4"	100%
NO. 40	0-70%
NO. 200	0-10%

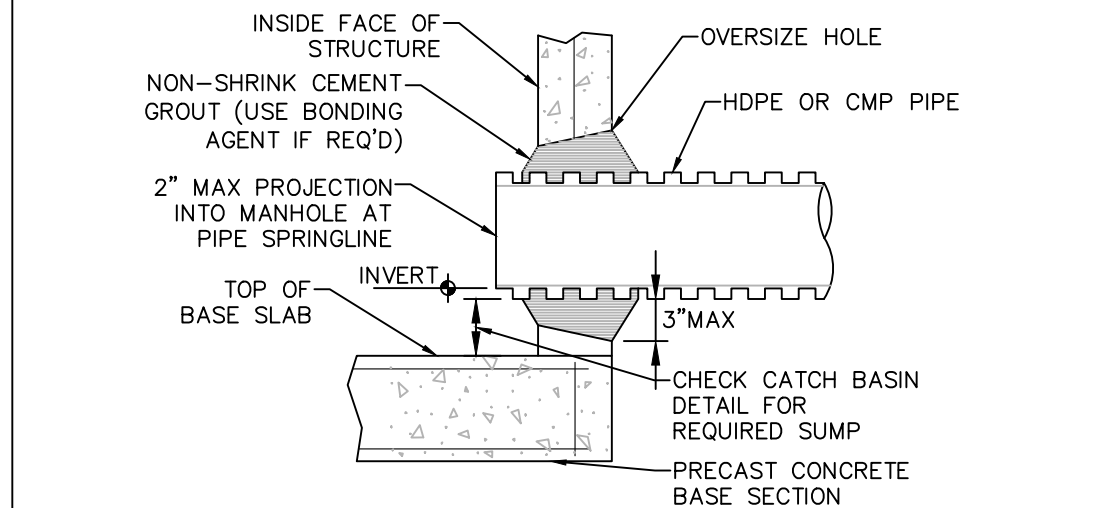
- TRENCH BACKFILL SHALL BE A NATURAL RUN-OF-BANK (R.O.B.) OR PROCESSED GRAVEL, OR EXCAVATED MATERIAL FREE OF SOFT, NONDURABLE PARTICLES, ORGANIC MATERIALS AND ELONGATED PARTICLES, AND SHALL BE WELL GRADED FROM FINE TO COARSE PARTICLES. TRENCH BACKFILL GRADATIONS SHALL BE APPROVED BY THE ENGINEER AND SHALL MEET THE FOLLOWING GRADATION REQUIREMENTS:

SIEVE DESIGNATION	% PASSING
4"	100%
NO. 40	0-70%
NO. 200	0-10%

IN NON-TRAFFIC UNPAVED AREAS TRENCH BACKFILL CAN BE MATERIALS EXCAVATED FROM THE TRENCH AS APPROVED BY THE ENGINEER AND COMPACTED TO 90% MODIFIED PROCTOR.

- INSTALL CONTINUOUS DETECTABLE MARKING TAPE DURING BACKFILLING OF TRENCH FOR UNDERGROUND PIPING. LOCATE TAPE 12" BELOW FINISHED GRADE, DIRECTLY OVER PIPING, EXCEPT 6" BELOW SUBGRADE UNDER PAVEMENTS & SLAB.
- TRENCHING SHALL BE IMPLEMENTED IN ACCORDANCE WITH O.S.H.A. STANDARDS.
- 5'-0" MIN COVER SHALL BE APPLIED TO WATER MAIN OR SANITARY SEWER FORCE MAINS ONLY.

1 PIPE TRENCH DETAIL (TYPICAL)
SCALE: NOT TO SCALE



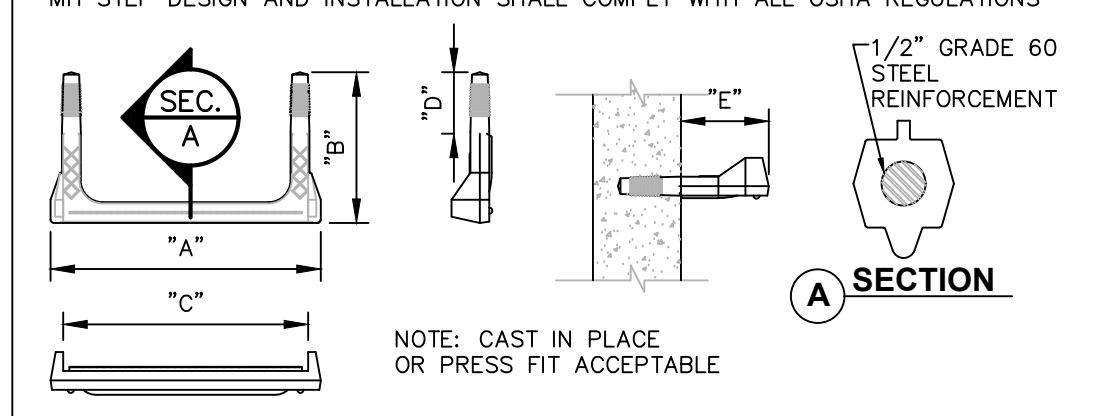
2 PIPE CONNECTION TO DRAINAGE STRUCTURE-CMP OR HDPE CEMENT GROUT SEAL JOINT
SCALE: NOT TO SCALE

ACCEPTABLE MANHOLE STEPS

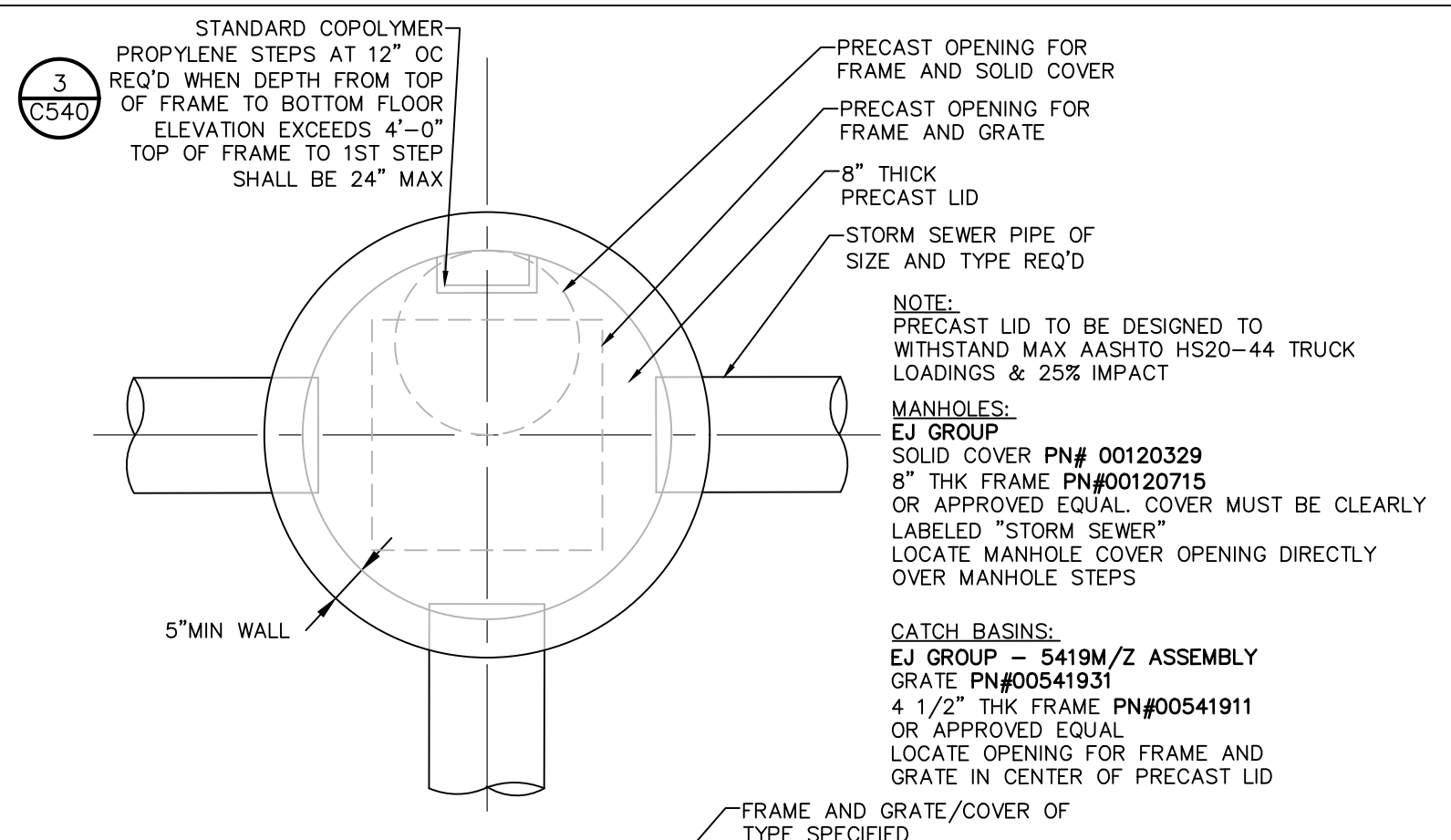
MANUFACTURER	PATTERN NUMBER	"A" STEP WIDTH	"B" LEG LENGTH	"C" RUNG CLEAR	"D" EMBED-MENT	"E" RUNG CLEAR
M.A. INDUSTRIES INC*	PS2-PF	14 3/4	9 1/4	13 3/4	3 3/8	5 7/8
M.A. INDUSTRIES INC*	PS2-PFS	14 3/4	8 1/4	13 3/4	3 3/8	4 7/8

* OR EQUIVALENT

MH STEP DESIGN AND INSTALLATION SHALL COMPLY WITH ALL OSHA REGULATIONS



3 COPOLYMER POLYPROPYLENE MH STEP
SCALE: NOT TO SCALE



PLAN

SECTION

NOTES:

- CATCH BASIN SHALL BE PRECAST CONCRETE. DESIGNED FOR HS20-44 VEHICULAR LOADING AND 25% IMPACT.
- FRAME AND COVER SHALL BE DESIGNED FOR HS20-44 VEHICULAR LOADING & 25% IMPACT.
- CONCRETE CATCH BASIN LID CLEAR OPENING DIMENSION MUST MATCH FRAME AND GRATE CLEAR OPENING DIMENSION.
- CATCH BASINS HAVING A DEPTH GREATER THAN 48" FROM FINISHED SURFACE TO THE FLOOR OF THE CONCRETE BASE SHALL BE PROVIDED WITH STEPS.
- BACKFILL USING TRENCH BACKFILL, COMPACTED IN 6" LIFTS.
- SUMPS FOR CATCH BASINS SHALL BE 12" IN 6" LIFTS.
- ECCENTRIC CONE TOP CAN BE USED FOR MANHOLES DEPTH GREATER THAN 7 FEET.
- SEE CHART FOR REQUIRED MANHOLES / CATCH BASINS DIAMETERS.
- ALL PRECAST CONSTRUCTION IN ACCORDANCE W/ASTM C478

4 PRECAST CONCRETE CATCH BASIN/MANHOLE DETAIL
SCALE: NOT TO SCALE

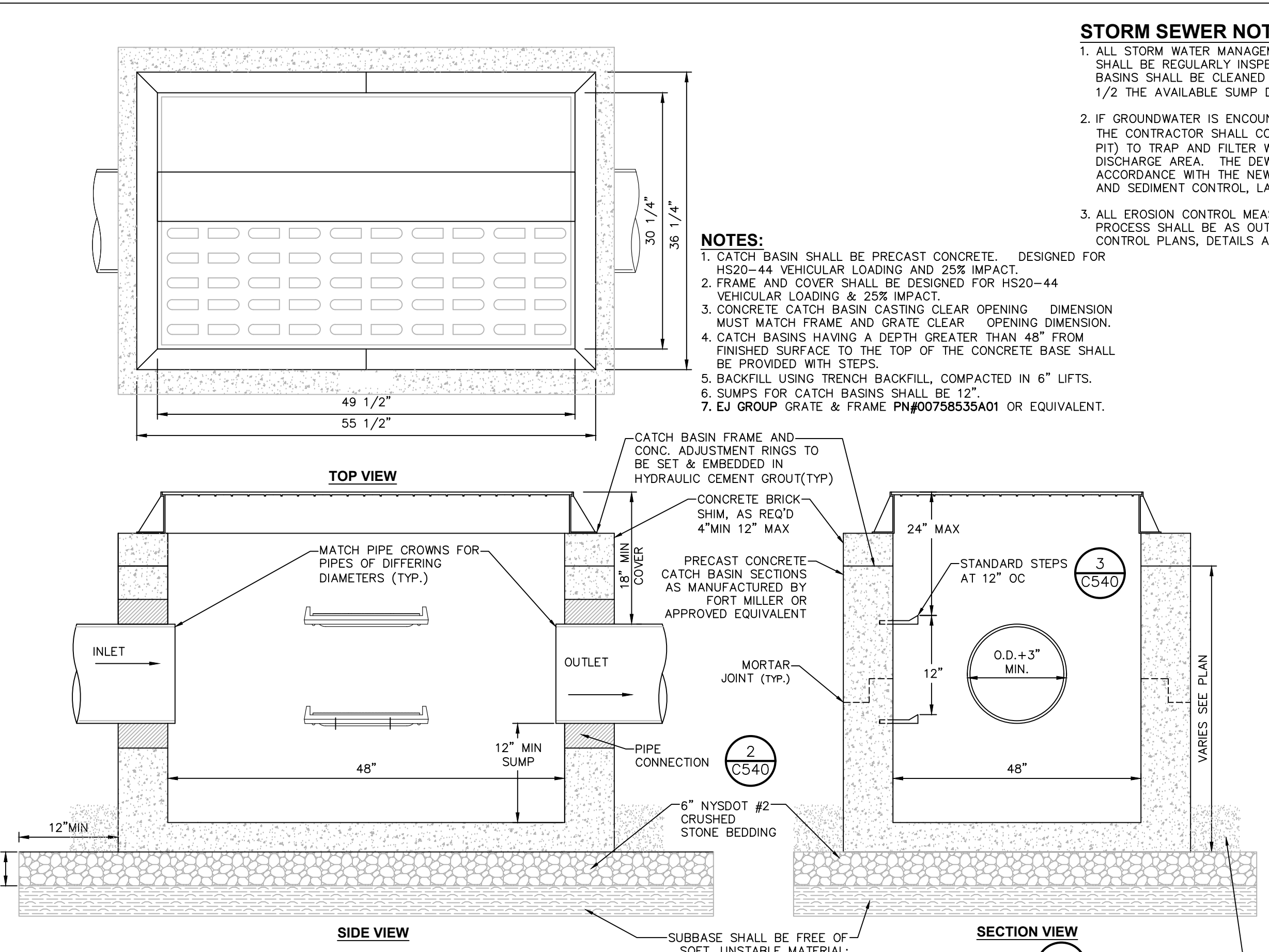
TYPICAL HDPE END SECTION

PIPE DIA.	END SECTION DIMENSIONS			
	A	B	C	D
12"	42"	14"	34"	6"
18"	42"	14"	34"	6"
24"	50"	21"	48"	6"
30"	62"	27"	58"	6"
36"	82"	41"	78"	6"

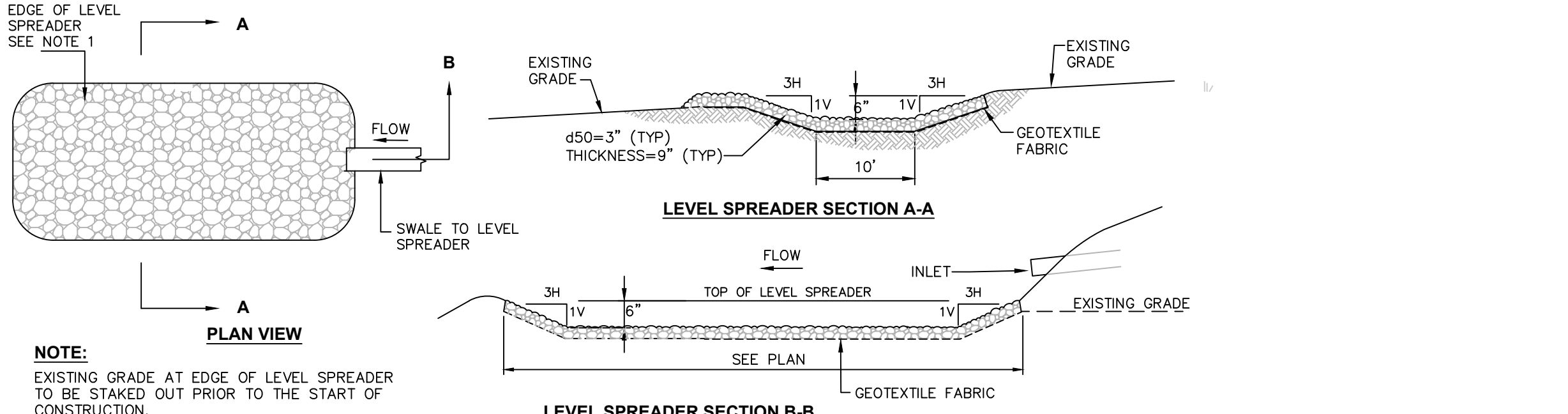
NOTES:

- SCOPE: THIS SPECIFICATION DESCRIBES 12" THROUGH 36" INCH ADS FLARED END SECTIONS FOR USE IN CULVERT AND DRAINAGE OUTLET APPLICATIONS. FES LARGER THAN 36" SHALL USE CIRCULAR CORRUGATED METAL FLARED END SECTIONS.
- REQUIREMENTS: THE INVERT OF THE PIPE AND THE END SECTION SHALL BE AT THE SAME ELEVATION. THE ADS FLARED END SECTION SHALL BE HIGH DENSITY POLYETHYLENE MEETING ASTM D3350 MINIMUM CELL CLASSIFICATION 213320C; CONTACT MANUFACTURER FOR ADDITIONAL CELL CLASSIFICATION INFORMATION, WHEN PROVIDED, THE METAL THREADED FASTENING ROD SHALL BE STAINLESS STEEL.
- INSTALLATION: INSTALLATION SHALL BE IN ACCORDANCE WITH ADS INSTALLATION INSTRUCTIONS AND WITH THOSE ISSUED BY STATE OR LOCAL AUTHORITIES. CONTACT YOUR LOCAL ADS REPRESENTATIVE OR VISIT WWW.ADS-PIPE.COM FOR THE LATEST INSTALLATION INSTRUCTIONS.
- PROVIDE TRASH RACK ONLY WHERE SPECIFIED ON SITE PLANS.

5 TYPICAL END SECTION - HDPE
SCALE: NOT TO SCALE



6 PRECAST CONCRETE RECTANGULAR CATCH BASIN DETAIL
SCALE: NOT TO SCALE



7 LEVEL SPREADER
SCALE: NOT TO SCALE

STORM SEWER NOTES:

- ALL STORM WATER MANAGEMENT STRUCTURES (I.E. CATCH BASIN, ETC.) SHALL BE REGULARLY INSPECTED FOR SEDIMENT ACCUMULATIONS. CATCH BASINS SHALL BE CLEANED WHEN SEDIMENT DEPTH REACHES A MAXIMUM OF 1/2 THE AVAILABLE SUMP DEPTH.
- IF GROUNDWATER IS ENCOUNTERED DURING CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL CONSTRUCT A DEWATERING PIT (A.K.A. SUMP PIT) TO TRAP AND FILTER WATER FOR PUMPING TO A SUITABLE DISCHARGE AREA. THE DEWATERING PIT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE NEW YORK STATE GUIDELINES FOR URBAN EROSION AND SEDIMENT CONTROL, LATEST EDITION.
- ALL EROSION CONTROL MEASURES EMPLOYED DURING THE CONSTRUCTION PROCESS SHALL BE AS OUTLINED ON THE EROSION AND SEDIMENT CONTROL PLANS, DETAILS AND NOTES.

NOTES:

- CATCH BASIN SHALL BE PRECAST CONCRETE. DESIGNED FOR HS20-44 VEHICULAR LOADING AND 25% IMPACT.
- FRAME AND COVER SHALL BE DESIGNED FOR HS20-44 VEHICULAR LOADING & 25% IMPACT.
- CONCRETE CATCH BASIN CASTING CLEAR OPENING DIMENSION MUST MATCH FRAME AND GRATE CLEAR OPENING DIMENSION.
- CATCH BASINS HAVING A DEPTH GREATER THAN 48" FROM FINISHED SURFACE TO THE TOP OF THE CONCRETE BASE SHALL BE PROVIDED WITH STEPS.
- BACKFILL USING TRENCH BACKFILL, COMPACTED IN 6" LIFTS.
- SUMPS FOR CATCH BASINS SHALL BE 12" IN 6" LIFTS.
- EJ GROUP GRATE & FRAME PN#0075853A01 OR EQUIVALENT.

LaBella
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21 Fox Street
Poughkeepsie, NY 12601
(845) 454-3980

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395 Route 212 Saugerties, NY 12477

Terra Group 201, LLC.
Dutchess Ave and Garden Street Village of Wappingers, NY

NO.	DATE:	DESCRIPTION:
2	3/15/23	Village Comments
1	2/8/23	Village Comments

PROJECT NUMBER: 2230010

DRAWN BY: TK

REVIEWED BY: CPL

ISSUED FOR: PLANNING BOARD APPROVAL

DATE: 12/7/22

DRAWING NAME:

VILLAGE OF WAPPINGERS FALLS

PLANNING BOARD

FINAL APPROVAL DATE: _____

PB CHAIR: _____ DATE: _____

WITNESS: _____

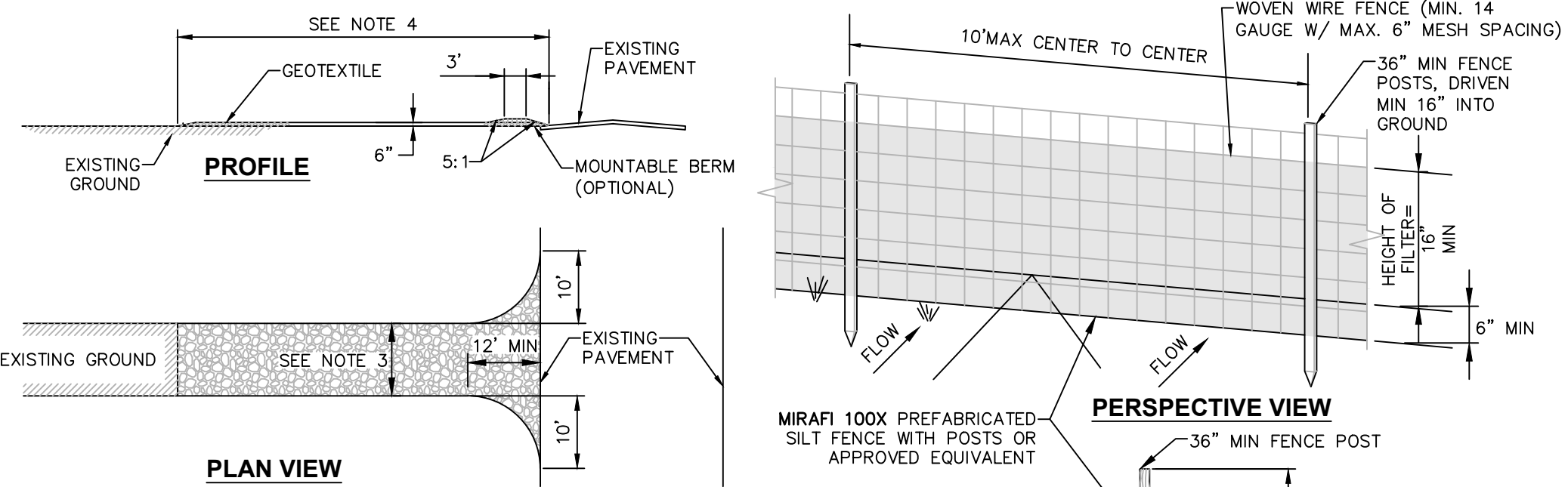
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It is a violation of New York Education Law Article 145 Sec. 7209, for any person, unless acting under the direction of a licensed architect, professional engineer, land surveyor, landscape architect or geologist to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered, the altering architect, engineer, land surveyor, landscape architect or geologist shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

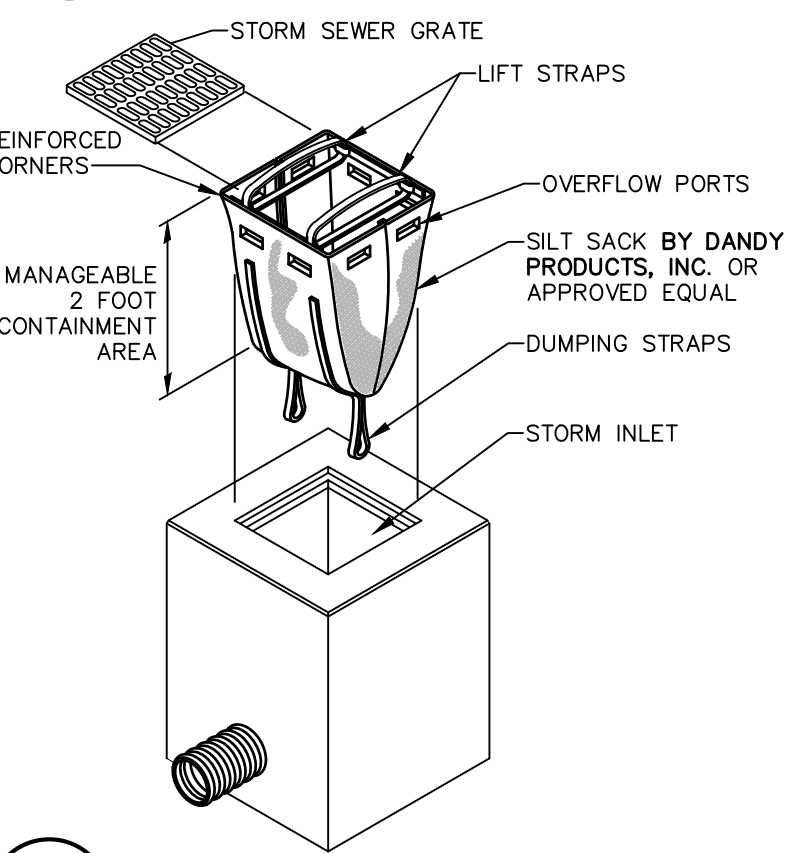
Terra Group 201, LLC.
395 Route 212 Saugerties, NY 12477

Terra Group 201, LLC.
Dutchess Ave and Garden Street Village of Wappingers, NY

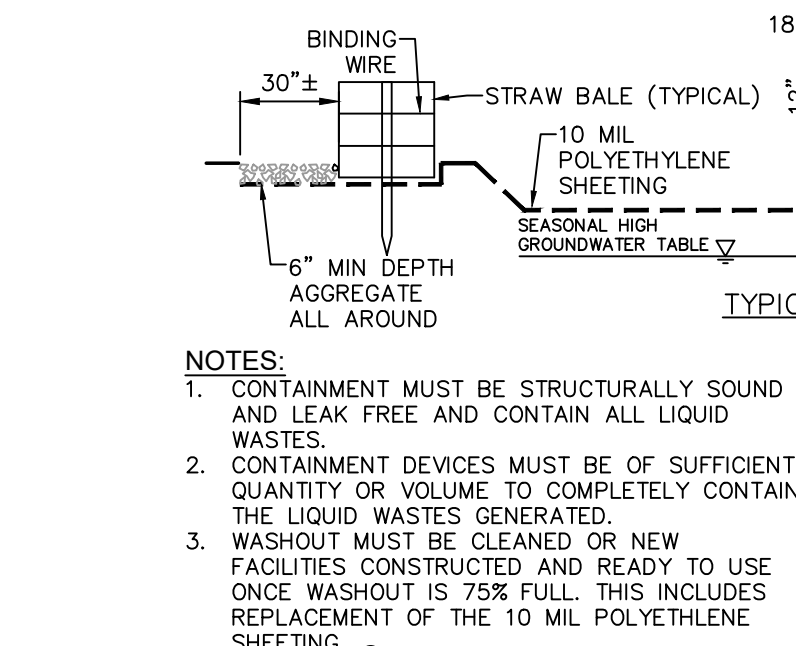
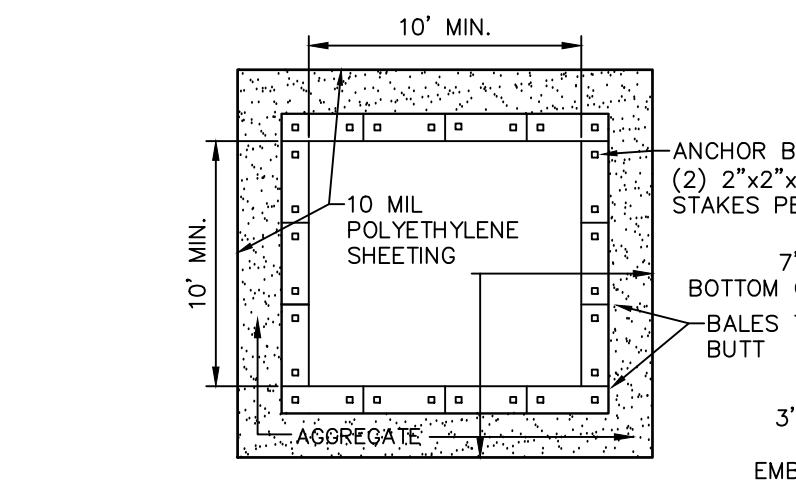


- CONSTRUCTION ENTRANCE SPECIFICATIONS:**
1. STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
 2. THICKNESS - NOT LESS THAN SIX (6) INCHES.
 3. WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY FOUR (24) FEET IF SINGLE ENTRANCE TO SITE.
 4. LENGTH - NOT LESS THAN 50' (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30' MINIMUM LENGTH WOULD APPLY).
 5. GEOTEXTILE - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
 6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
 7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SKIPPED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
 8. WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
 9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

1 STABILIZED CONSTRUCTION ACCESS DETAIL
SCALE: NOT TO SCALE



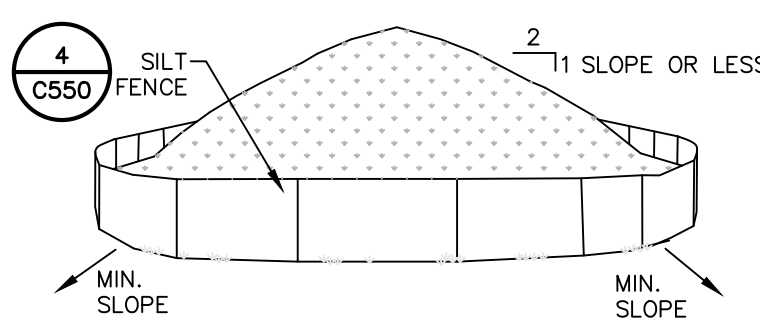
2 SILT SACK DETAIL
SCALE: NOT TO SCALE



5 CONCRETE WASHOUT AREA DETAIL
SCALE: NOT TO SCALE

- NOTES:**
1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL "T" OR "U" TYPE OR HARDWOOD.
 2. FILTER FABRIC TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 6" MAX MESH OPENING.
 3. WHEN TWO SECTIONS OF FILTER FABRIC ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY 6" AND FOLDED.
 4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIALS REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.
 5. MAXIMUM DRAINAGE AREA FOR OVERLAND FLOW TO A SILT FENCE SHALL NOT EXCEED 1/4 ACRE PER 100 FEET OF FENCE.
 6. SILT FENCE SHALL BE USED WHERE EROSION COULD OCCUR IN THE FORM OF SHEET EROSION.
 7. SILT FENCE SHALL NOT BE USED WHEN A CONCENTRATION OF WATER IS FLOWING TO THE BARRIER.
 8. MAXIMUM ALLOWABLE SLOPE LENGTHS CONTRIBUTING RUN-OFF TO A SILT FENCE ARE:
- | SLOPE STEEPNESS | MAXIMUM SLOPE LENGTH(FT) |
|-----------------|--------------------------|
| 2:1 | 25 |
| 3:1 | 50 |
| 4:1 | 75 |
| 5:1 OR FLATTER | 100 |

4 SILT FENCE INSTALLATION DETAIL
SCALE: NOT TO SCALE

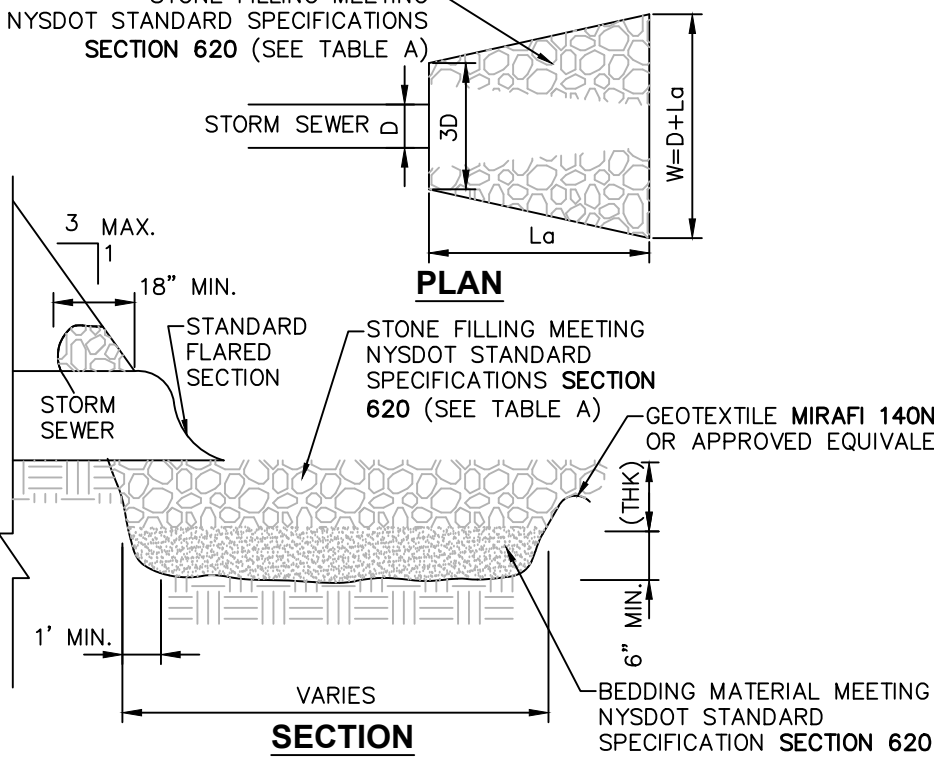


- NOTES:**
1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
 2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 1V:2H.
 3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH SILT FENCING, THEN STABILIZED WITH VEGETATION OR COVERED.
 4. SEE SPECIFICATIONS FOR INSTALLATION OF SILT FENCE.

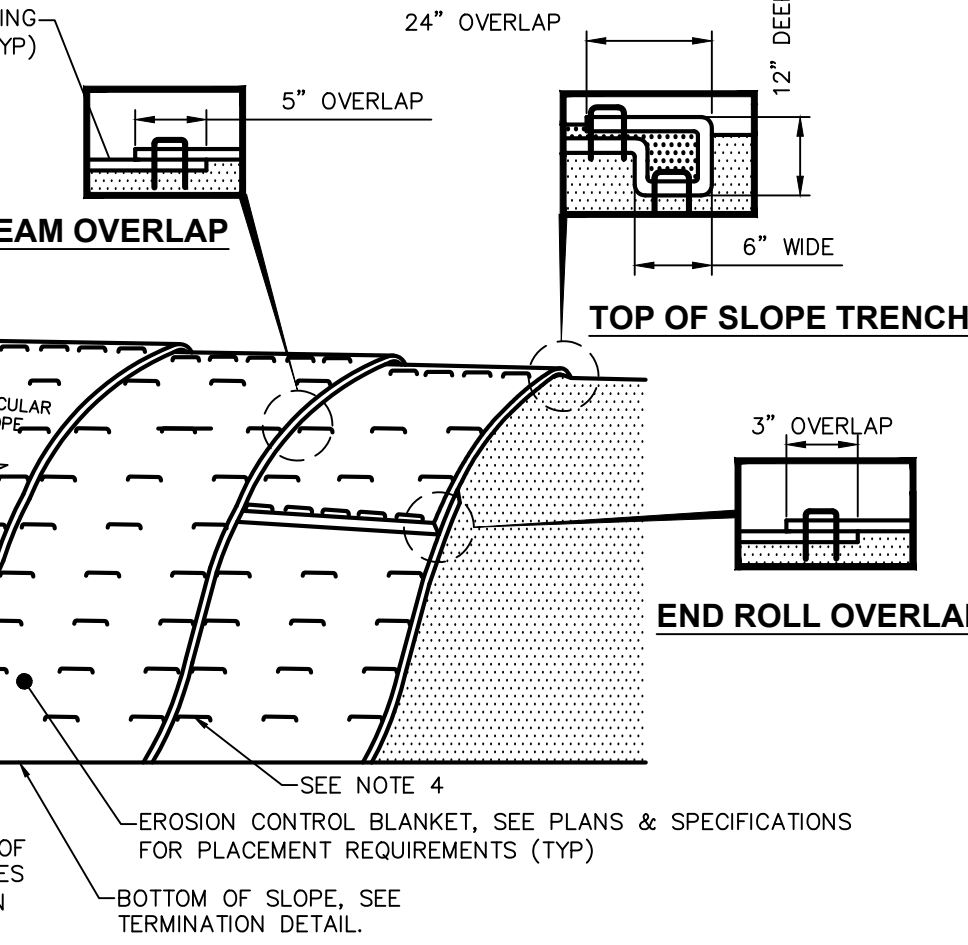
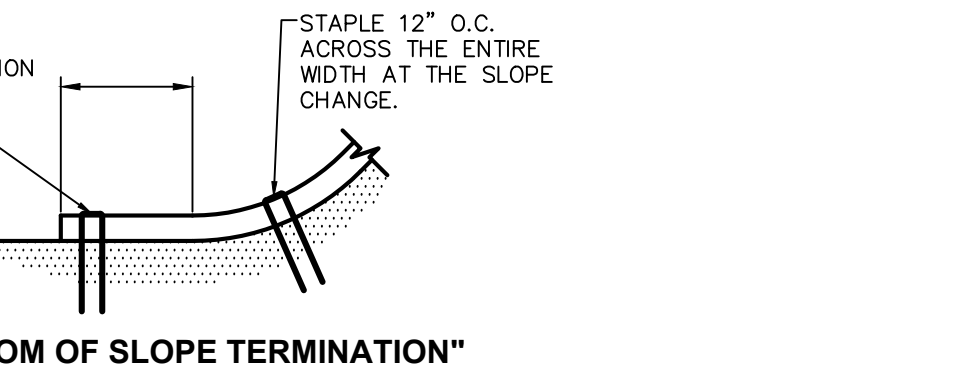
3 TEMPORARY SOIL STOCKPILE DETAIL
SCALE: NOT TO SCALE

STONE APRON SIZING REQUIREMENT - TABLE "A"

CULVERT DIA. (D)	CULVERT SLOPE, %	NYSDOT STANDARD STONE FILLING APRON MATERIAL	d50	dMAX	MINIMUM APRON THICKNESS (IN)	MINIMUM OUTLET APRON LENGTH(FT)
12"	< 8	LIGHT	9"-12"	9"	18	6
	8-10	MEDIUM	9"-12"	14"-18"	24	10
18"	< 4	LIGHT	6"	9"	18	10
	4-6	MEDIUM	9"-12"	14"-18"	24	12
	6-8	HEAVY	15"-18"	22"-27"	36	18
	8-10	HEAVY	15"-18"	22"-27"	36	18
24"	< 3	LIGHT	6"	9"	18	12
	3-4	MEDIUM	9"-12"	14"-18"	24	16
	4-8	HEAVY	15"-18"	22"-27"	36	24
30"	< 1	LIGHT	6"	9"	18	15
	1-2	MEDIUM	9"-12"	14"-18"	24	20
	2-4	HEAVY	15"-18"	22"-27"	36	25
36"	< 2	MEDIUM	9"-12"	14"-18"	24	24
	2-3	HEAVY	15"-18"	22"-27"	36	30
	3-5	HEAVY	15"-18"	22"-27"	36	36
42"	< 1	MEDIUM	9"-12"	14"-18"	24	25
	1-2	HEAVY	15"-18"	22"-27"	36	35
	2-3	HEAVY	15"-18"	22"-27"	36	42
48"	< 1	MEDIUM	9"-12"	14"-18"	24	32
	1-2	HEAVY	15"-18"	22"-27"	36	40
	2-3	HEAVY	15"-18"	22"-27"	36	48



6 END SECTION WITH STONE LINED APRON DETAIL
SCALE: NOT TO SCALE



- NOTES:**
1. PREPARE THE TOPSOIL (SEEDBED) FIRST BY RAKING, SHAPING, FINE GRADING, COMPACTING, SEEDING & FERTILIZING THE SLOPES.
 2. USE THE TRENCHING & ANCHORING PROCEDURES DETAILED HEREIN TO SECURE ANY EXPOSED MATERIAL ENDS. SECURE ALL PROJECT OVERLAPS. OVERLAP IN THE DIRECTION OF WATER FLOW, PERPENDICULAR TO THE SLOPE.
 3. KEEP EROSION CONTROL BLANKET IN SOLID CONTACT WITH THE TOPSOIL.
 4. USE THE REQUIRED NUMBER OF STAPLES/STAKES TO SECURELY FASTEN THE EROSION CONTROL BLANKET TO THE SLOPE. IN LOOSE SOIL CONDITIONS, THE USE OF STAPLES/STAKES LENGTHS GREATER THAN 6" MAY BE NECESSARY FOR PROPER SECURING. STAPLE PATTERNS & OVERLAPS ARE DEPENDENT ON SITE CONDITIONS & MANUFACTURER'S REQUIREMENTS. CONTRACTOR SHALL CONSULT WITH MANUFACTURER FOR ACTUAL SITE SPECIFIC REQUIREMENTS.

- TRENCHING & ANCHORING PROCEDURE NOTES:**
- SIDE SEAM OVERLAP:** THE EDGES OF PARALLEL BLANKETS SHALL BE STAPLED WITH A 5" OVERLAP.
- TOP OF SLOPE TRENCH:** BEGIN AT THE TOP OF SLOPE BY ANCHORING THE EROSION CONTROL BLANKET IN A 6" x 6" TRENCH WITH A 12" OVERLAP EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR WITH A ROW OF STAPLES/STAKES 12" O.C. IN THE BOTTOM OF THE TRENCH. BACKFILL & COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO THE COMPACTED SOIL & FOLD THE REMAINING 12" PORTION OF THE EROSION CONTROL BLANKET BACK OVER THE SEED & COMPACTED SOIL. SECURE THE EROSION CONTROL BLANKET OVER THE COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED 12" O.C. ACROSS THE ENTIRE WIDTH.
- END ROLL OVERLAP:** CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE SHALL BE PLACED END OVER END (SHINGLE-STYLE) WITH A 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREAS, 12" APART ACROSS THE ENTIRE WIDTH.

7 EROSION CONTROL BLANKET INSTALLATION DETAIL
SCALE: NTS

SPDES GENERAL PERMIT GP-0-20-001 COMPLIANCE NOTES:

1. THE TOTAL AREA OF DISTURBANCE PLANNED FOR THIS PROJECT IS LESS THAN 1 ACRE THEREFORE A SPDES GENERAL PERMIT (GP-0-20-001) IS NOT REQUIRED.

CONSTRUCTION SEQUENCING NOTES:

1. PRIOR TO COMMENCING ANY CLEARING, GRUBBING, EARTHWORK ACTIVITIES, ETC. AT THE SITE, THE CONTRACTOR SHALL FLAG THE WORK LIMITS AND SHALL INSTALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES (I.E. SILT FENCES, TREE PROTECTION/BARRIER FENCES, STABILIZED CONSTRUCTION ENTRANCES, STORM DRAIN SEDIMENT FILTERS, DRAINAGE DITCH SEDIMENT FILTERS, ETC.) INDICATED ON THE PROJECT DRAWINGS. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES MUST BE STABILIZED, AND FUNCTIONAL BEFORE SITE DISTURBANCE BEGINS WITHIN THEIR TRIBUTARY AREAS.
2. PRIOR TO COMMENCING CLEARING, GRUBBING AND/OR EARTHWORK ACTIVITIES IN ANY OTHER AREA OF THE SITE, THE CONTRACTOR SHALL INSTALL INLET AND OUTLET PROTECTION MEASURES AS NECESSARY TO MINIMIZE EROSION.
3. TEMPORARY DIVERSION MEASURES SHALL BE LOCATED IN A MANNER THAT WILL ASSURE THAT THE AREA TRIBUTARY TO EACH DIVERSION DOES NOT EXCEED FIVE (5) ACRES. THESE TEMPORARY DIVERSION MEASURES SHALL BE INSPECTED DAILY AND REPAIRED AS NECESSARY TO MINIMIZE EROSION.
4. THE CONTRACTOR SHALL COMMENCE SITE CONSTRUCTION ACTIVITIES INCLUDING CLEARING & GRADING OF THE PROPOSED AREA OF DISTURBANCE AS REQUIRED.
5. INSTALL PROTECTIVE MEASURES AT THE LOCATIONS OF ALL GRATE INLETS, CURB INLETS AND AT THE ENDS OF ALL TEMPORARY STORM SEWER PIPES.
6. CONSTRUCT ALL UTILITIES, CURB AND GUTTER, GUTTER INLETS, AREA INLETS, AND STORM SEWER MANHOLES, AS SHOWN ON THE PLANS. INLET PROTECTION MAY BE REMOVED TEMPORARILY FOR THIS CONSTRUCTION. PLACE REQUIRED RIP-RAP AT LOCATIONS SHOWN ON THE PLANS.
7. FINALIZE VEGETATION SUB-GRADE PREPARATION.
8. REMOVE PROTECTIVE MEASURES AROUND INLETS AND MANHOLES NO MORE THAN 24 HOURS PRIOR TO PLACING STABILIZED BASE COURSE.
9. INSTALL SUB-BASE MATERIAL AS REQUIRED FOR PAVEMENT.
10. THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AND IMMEDIATELY ESTABLISH PERMANENT VEGETATION ON THE AREAS DISTURBED DURING THEIR REMOVAL.

EROSION AND SEDIMENT CONTROL MEASURES:

1. DAMAGE TO SURFACE WATERS RESULTING FROM EROSION AND SEDIMENTATION SHALL BE MINIMIZED BY STABILIZING DISTURBED AREAS AND BY REMOVING SEDIMENT FROM CONSTRUCTION SITE DISCHARGES.
2. AS MUCH AS IS PRACTICAL, EXISTING VEGETATION SHALL BE PRESERVED. FOLLOWING THE COMPLETION OF CONSTRUCTION ACTIVITIES IN ANY PORTION OF THE SITE, PERMANENT VEGETATION SHALL BE ESTABLISHED ON ALL EXPOSED SOILS.
3. SITE PREPARATION ACTIVITIES SHALL BE PLANNED TO MINIMIZE THE SCOPE AND DURATION OF SITE DISTURBANCE.
4. PERMANENT TRAFFIC CORRIDORS SHALL BE ESTABLISHED AND "ROUTES OF CONVENIENCE" SHALL BE AVOIDED. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT ALL POINTS OF ENTRY ONTO THE PROJECT SITE.

MAINTENANCE OF EROSION AND SEDIMENT CONTROL MEASURES: PERMANENT AND TEMPORARY VEGETATION:

- INSPECT ALL AREAS THAT HAVE RECEIVED VEGETATION EVERY SEVEN DAYS & AFTER EVERY RAIN EVENT. ALL AREAS DAMAGED BY EROSION OR WHERE SEED HAS NOT ESTABLISHED SHALL BE REPAIRED AND RESTABILIZED IMMEDIATELY.

STABILIZED CONSTRUCTION ENTRANCE:

- INSPECT THE ENTRANCE EVERY SEVEN DAYS & AFTER EVERY RAIN EVENT. CHECK FOR MUD, SEDIMENT BUILD-UP AND PAD INTEGRITY. MAKE DAILY INSPECTIONS DURING WET WEATHER. RESHAPE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL. WASH AND REPLACE STONES AS NEEDED. THE STONE IN THE ENTRANCE SHOULD BE WASHED OR REPLACED WHENEVER THE ENTRANCE FAILS TO REDUCE MUD BEING CARRIED OFF-SITE BY VEHICLES. IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADS AS NECESSARY. REMOVE AND REPAIR THE TEMPORARY CONSTRUCTION ENTRANCE AS SOON AS THEY ARE NO LONGER NEEDED TO PROVIDE ACCESS TO THE SITE.

SILT FENCE:

- INSPECT FOR DAMAGE EVERY SEVEN DAYS & AFTER EVERY RAIN EVENT. MAKE ALL REPAIRS IMMEDIATELY. REMOVE SEDIMENT FROM THE UP-SLOPE FACE OF THE FENCE BEFORE IT ACCUMULATES TO A HEIGHT EQUAL TO 1/3 THE HEIGHT OF THE FENCE. IF FENCE FABRIC TENS, BEGINS TO DECOMPOSE, OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE AFFECTED SECTION OF FENCE IMMEDIATELY.

SOIL STOCKPILE:

- INSPECT SEDIMENT CONTROL BARRIERS (SILT FENCE OR HAY BALE) AND VEGETATION FOR DAMAGE EVERY SEVEN DAYS & AFTER EVERY RAIN EVENT. MAKE ALL REPAIRS IMMEDIATELY. REMOVE SEDIMENT FROM THE UP-SLOPE FACE OF THE SEDIMENT CONTROL BARRIER BEFORE IT ACCUMULATES TO A HEIGHT EQUAL TO 1/3 THE HEIGHT OF THE SEDIMENT CONTROL BARRIER. IF SEDIMENT CONTROL BARRIER TENS, BEGINS TO DECOMPOSE, OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE AFFECTED SECTION OF SEDIMENT CONTROL BARRIER IMMEDIATELY. REVEGETATE DISTURBED AREA TO STABILIZE SOIL STOCK PILE. REMOVE THE SEDIMENT CONTROL BARRIER WHEN THE SOIL STOCKPILE HAS BEEN REMOVED.

DUST CONTROL:

- SCHEDULE CONSTRUCTION OPERATIONS TO MINIMIZE THE AMOUNT OF DISTURBED AREAS AT ANY ONE TIME DURING THE COURSE OF WORK. APPLY TEMPORARY SOIL STABILIZATION PRACTICES SUCH AS MULCHING, SEEDING, AND SPRAYING (WATER). STRUCTURAL MEASURES (I.E. CURB, SEEDING) SHALL BE INSTALLED IN DISTURBED AREAS BEFORE SIGNIFICANT BLOWING PROBLEMS DEVELOP. WATER SHALL BE SPRAYED AS NEEDED. REPEAT AS NEEDED, BUT AVOID EXCESSIVE SPRAYING, WHICH COULD CREATE RUNOFF AND EROSION PROBLEMS.

EROSION CONTROL BLANKET:

- INSPECT THE BLANKET EVERY SEVEN DAYS & AFTER EVERY RAIN EVENT. REPLACE WIRE STAPLES AS REQUIRED TO REPAIR AND RESEAL AND CHECK FOR DAMAGE TO THE VEGETATION IS EVIDENT. WHEN DAMAGED BEYOND REPAIR OR NO LONGER FUNCTIONING, THE BLANKET SHALL BE REPLACED.

STORM DRAIN INLET PROTECTION:

- INSPECT ALL STORM DRAIN INLET PROTECTION DEVICES EVERY SEVEN DAYS & AFTER EVERY RAIN EVENT. MAKE REPAIRS AS NEEDED, REMOVE SEDIMENT FROM THE POOL AREA AS NECESSARY.

SNOW AND ICE CONTROL:

- PAVE AND MAINTAIN ROADSWAYS, AND DRIVEWAYS ADJACENT TO WATER QUALITY FILTERS SHALL NOT BE SANDED DURING SNOW EVENTS DUE TO HIGH POTENTIAL FOR CLOGGING FROM SAND IN SURFACE WATER RUNOFF. USE SALT ONLY FOR SNOW AND ICE CONTROL.

GENERAL EROSION AND SEDIMENT CONTROL NOTES:

1. ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE IN STRICT COMPLIANCE WITH "NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL", NOVEMBER 2016.
2. EXCESS SOIL TO BE STOCKPILED WITHIN THE LIMITS OF SITE DISTURBANCE IF NOT USED IMMEDIATELY FOR GRADING PURPOSES. INSTALL SILT FENCE AROUND SOIL STOCKPILES.
3. APPLY SURFACE STABILIZATION AND RESTORATION MEASURES. AREAS UNDERGOING CLEARING OR GRADING AND ANY AREAS DISTURBED BY CONSTRUCTION ACTIVITIES WHERE WORK IS DELAYED, SUSPENDED, OR INCOMPLETE AND WILL NOT BE REDISTURBED FOR 21 DAYS OR MORE SHALL BE STABILIZED WITH TEMPORARY VEGETATIVE COVER WITHIN 14 DAYS AFTER CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS CEASED. (SEE SPECIFICATIONS FOR TEMPORARY VEGETATIVE COVER). AREAS UNDERGOING CLEARING OR GRADING AND ANY AREAS DISTURBED BY CONSTRUCTION ACTIVITIES WHERE WORK IS COMPLETE AND WILL NOT BE REDISTURBED SHALL BE STABILIZED AND RESTORED WITH PERMANENT VEGETATIVE COVER AS SOON AS SITE AREAS ARE AVAILABLE AND WITHIN 14 DAYS AFTER WORK IS COMPLETE. (SEE SPECIFICATIONS FOR PERMANENT VEGETATIVE COVER). SEEDING FOR PERMANENT VEGETATIVE COVER SHALL BE WITHIN THE SEASONAL LIMITATIONS. PROVIDE STABILIZATION WITH TEMPORARY VEGETATIVE COVER WITHIN 14 DAYS AFTER WORK IS COMPLETE, FOR SEEDING OUTSIDE PERMITTED SEEDING PERIODS.
4. SEEDING AREAS TO BE MULCHED WITH STRAW OR HAY MULCH IN ACCORDANCE WITH VEGETATIVE COVER SPECIFICATIONS.
5. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL MEASURES THROUGHOUT THE COURSE OF CONSTRUCTION.
6. THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING DUST BY SPRINKLING EXPOSED SOIL AREAS PERIODICALLY WITH WATER AS REQUIRED. THE CONTRACTOR IS TO SUPPLY ALL EQUIPMENT AND WATER.
7. WHEN ALL DISTURBED AREAS ARE STABLE, ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED.

TOPSOIL SPECIFICATIONS:

1. EXISTING EXCESS TOPSOIL SHALL BE REMOVED AND STORED IN TOPSOIL STOCKPILES SUFFICIENTLY REMOVED FROM OTHER EXCAVATION OR DISTURBANCE TO AVOID MIXING. SILT FENCE SHALL BE INSTALLED AROUND TOPSOIL STOCKPILE AREAS.

SITE PREPARATION:

1. COMPLETE ROUGH GRADING AND FINAL GRADE, ALLOWING FOR DEPTH OF TOPSOIL TO BE ADDED.
2. SCARIFY ALL COMPACT, SLOWLY PERMEABLE, MEDIUM AND FINE TEXTURED SUBSOIL AREAS. SCARIFY AT APPROXIMATELY RIGHT ANGLES TO THE SLOPE DIRECTION IN SOIL AREAS THAT ARE STEEPER THAN 5%.
3. REMOVE REFUSE, WOODY PLANT PARTS, STONES OVER 3 INCHES IN DIAMETER, AND OTHER LITTER.

TOPSOIL MATERIALS:

1. NEW TOPSOIL SHALL BE BETTER THAN OR EQUAL TO THE QUALITY OF THE EXISTING ADJACENT TOPSOIL. IT SHALL MEET THE FOLLOWING CRITERIA:
 - A. ORIGINAL LOAN TOPSOIL, WELL DRAINED HOMOGENEOUS TEXTURE AND OF UNIFORM GRADE, WITHOUT THE ADMIXTURE OF SUBSOIL MATERIAL AND FREE OF DENSE MATERIAL, HARDPAN, CLAY, STONES, SOD OR OTHER OBJECTIONABLE MATERIAL.
 - B. CONTAINING NOT LESS THAN 5% NPK MORE THAN 20% ORGANIC MATTER IN THAT PORTION OF A SAMPLING PASSING A 1/4" SIEVE WHEN DETERMINED BY THE WET COMBUSTION METHOD ON A SAMPLE DRIED AT 105°C.
 - C. CONTAINING A PH VALUE WITHIN THE RANGE OF 6.5 TO 7.5 ON THAT PORTION OF THE SAMPLE WHICH PASSES A 1/4" SIEVE.
 - D. CONTAINING THE FOLLOWING WASHED GRADATIONS:

SIEVE DESIGNATION	% PASSING
1"	100
1/4"	97-100
NO 200	20-60

APPLICATION AND GRADING:

1. TOPSOIL SHALL BE DISTRIBUTED TO A UNIFORM DEPTH OF 4" OVER THE AREA. IT SHALL NOT BE PLACED WHEN IT IS PARTLY FROZEN, MUDDY, OR ON FROZEN SLOPES OR OVER ICE, SNOW, OR STANDING WATER.
2. TOPSOIL PLACED AND GRADED ON SLOPES STEEPER THAN 5% SHALL BE PROMPTLY FERTILIZED, SEEDDED, MULCHED AND STABILIZED BY "TRACKING" WITH SUITABLE EQUIPMENT.

VEGETATIVE COVER SPECIFICATIONS: TEMPORARY VEGETATIVE COVER (DURING CONSTRUCTION):

1. SITE PREPARATION (SAME AS PERMANENT VEGETATIVE COVER)
2. AMOUNT BY: (APPLY AT RATE OF 3 TO 4 LBS PER 1000 SF)

WEIGHT SPECIES OR VARIETY	PURITY	GERMINATION
100% ANNUAL REYGRASS	98%	90%

3. SEEDING (SAME AS PERMANENT VEGETATIVE COVER)

PERMANENT VEGETATIVE COVER (AFTER CONSTRUCTION):

1. SITE PREPARATION
 - A. BRING AREA TO BE SEEDDED TO REQUIRED GRADE. A MINIMUM OF 4" OF TOPSOIL IS REQUIRED.
 - B. PREPARE SEEDBED BY LOOSENING SOIL TO A DEPTH OF 4 INCHES.
 - C. REMOVE ALL STONES OVER 1 INCH IN DIAMETER, STICKS AND FOREIGN MATTER FROM THE SURFACE.
 - D. LIME TO PH OF 6.5.
 - E. FERTILIZERS: USE 5-10-5 (NPK) OR EQUIVALENT. APPLY AT RATE OF 4 LBS/1000 SF.
 - F. INCORPORATE LIME AND FERTILIZER IN THE TOP 4 INCHES OF TOPSOIL.
 - G. SMOOTH AND FIRM THE TOPSOIL.
2. SEED MIXTURE FOR USE ON LAWN AREAS: PROVIDE FRESH, CLEAN, NEW-CROP SEED MIXED IN THE PROPORTIONS SPECIFIED FOR SPECIES AND VARIETY, AND CONFORMING TO FEDERAL AND STATE STANDARDS.

LAWN SEED MIX: (APPLY AT RATE OF 5 TO 6 LBS PER 1000 SF)

SUN AND PARTIAL SHADE:	MINIMUM %	GERMINATION
AMOUNT BY:		
WEIGHT SPECIES OR VARIETY	PURITY	GERMINATION
50% KENTUCKY BLUE GRASS*	95%	80%
20% PERENNIAL RYE	98%	90%
30% CREEPING RED FESCUE	97%	85%
100%		
*MINIMUM 2 (EQUAL PROPORTIONS) VARIETIES AS LISTED IN CORNELL RECOMMENDATIONS FOR TURFGRASS.		

SHADE:	MINIMUM %	GERMINATION
AMOUNT BY:		
WEIGHT SPECIES OR VARIETY	PURITY	GERMINATION
25% KENTUCKY BLUE GRASS**	95%	80%
20% PERENNIAL RYE	98%	90%
35% CREEPING RED FESCUE	97%	85%
20% CHEWINGS RED FESCUE	97%	85%
100%		
**SHADE TOLERANT VARIETY		

DUST CONTROL:

1. SCHEDULE CONSTRUCTION OPERATIONS TO MINIMIZE THE AMOUNT OF DISTURBED AREAS AT ANY ONE TIME DURING THE COURSE OF WORK. APPLY TEMPORARY SOIL STABILIZATION PRACTICES SUCH AS MULCHING, SEEDING, AND SPRAYING (WATER). STRUCTURAL MEASURES (I.E. CURB, SEEDING) SHALL BE INSTALLED IN DISTURBED AREAS BEFORE SIGNIFICANT BLOWING PROBLEMS DEVELOP. WATER SHALL BE SPRAYED AS NEEDED. REPEAT AS NEEDED, BUT AVOID EXCESSIVE SPRAYING, WHICH COULD CREATE RUNOFF AND EROSION PROBLEMS.

COMPACTION REQUIREMENTS

LOCATION	COMPACTION	TESTING FREQUENCY
PIPE TRENCH BACKFILL (IN PAVED AREAS)	95% ASTM D1557	1 SERIES OF TESTS FOR EACH 150 FT OR LESS OF TRENCH LENGTH. SERIES INCLUDE 3 COMPACTION TESTS SPREAD EVENLY ALONG TRENCH PROFILE.
PIPE TRENCH BACKFILL (IN UNPAVED AREAS)	90% ASTM D1557	1 SERIES OF TESTS FOR EACH 150 FT OR LESS OF TRENCH LENGTH. SERIES INCLUDE 3 COMPACTION TESTS SPREAD EVENLY ALONG TRENCH PROFILE.
PIPE BEDDING AND PIPE ZONE BACKFILL	95% ASTM D1557	1 TEST FOR EACH 150 FT OR LESS OF TRENCH LENGTH.
PAVEMENT SUBBASE AND LAST LIFT OF SELECT GRANULAR LIFT (FILL BETWEEN SHEET PILES)	95% ASTM D1557	1 TEST FOR EVERY 2,000 SQ FT. OF LIFT AREA BUT NO FEWER THAN TWO TESTS PER LIFT

REVISIONS

NO.	DATE	DESCRIPTION
2	3/15/23	Village Comments
1	2/8/23	Village Comments

PROJECT NUMBER: 2230010

DRAWN BY: TK

REVIEWED BY: CPL

ISSUED FOR: PLANNING BOARD APPROVAL

DATE: 12/7/22

DRAWING NAME: VILLAGE OF WAPPINGERS FALLS PLANNING BOARD

DRAWING NUMBER:

PB CHAIR: _____ DATE: _____

WITNESS: _____ DATE: _____

EROSION & SEDIMENT CONTROL DETAILS

C550

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NOT FOR CONSTRUCTION

It is a violation of New York Education Law Article 145 Sec. 7209, for any person, unless acting under the direction of a licensed architect, professional engineer, land surveyor, landscape architect or geologist to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered, the altering architect, engineer, land surveyor, landscape architect or geologist shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

Terra Group 201, LLC.

395 Route 212 Saugerties, NY 12477

Terra Group 201, LLC.

Dutchess Ave and Garden Street Village of Wappingers, NY

2	3/15/23	Village Comments
1	2/8/23	Village Comments
NO.	DATE:	DESCRIPTION:

Revisions

PROJECT NUMBER: 2230010

DRAWN BY: TK

REVIEWED BY: CPL

ISSUED FOR: PLANNING BOARD APPROVAL

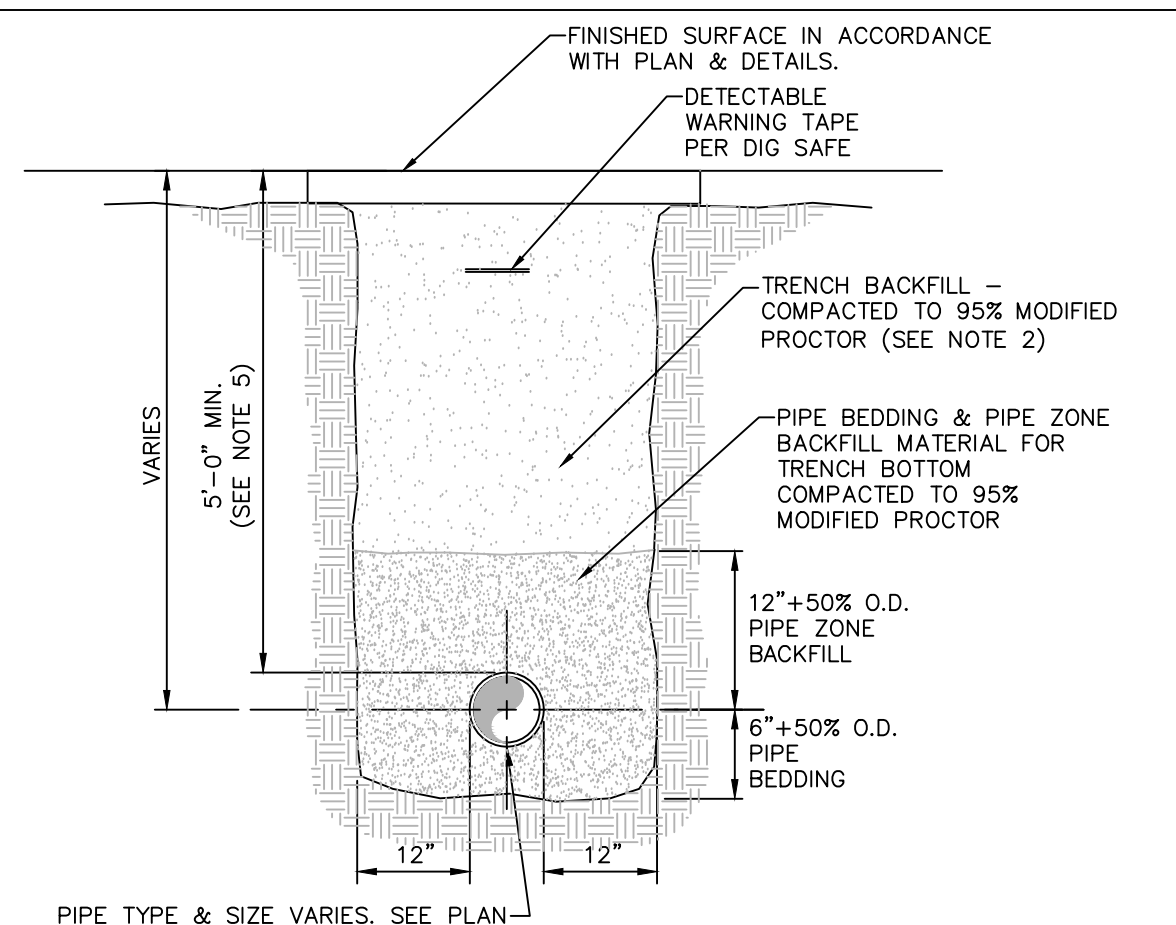
DATE: 12/7/22

DRAWING NAME:

WATER SYSTEM DETAILS

DRAWING NUMBER:

C560



1 PIPE TRENCH DETAIL (TYPICAL)
SCALE: NOT TO SCALE

SIEVE DESIGNATION	% PASSING
3/4"	100%
NO. 40	0-70%
NO. 200	0-10%

2. TRENCH BACKFILL SHALL BE A NATURAL, RUN-OF-BANK (R.O.B.) OR PROCESSED GRAVEL, OR EXCAVATED MATERIAL FREE OF SOFT, NONDURABLE PARTICLES, ORGANIC MATERIALS AND ELONGATED PARTICLES, AND SHALL BE WELL GRADED FROM FINE TO COARSE PARTICLES. TRENCH BACKFILL GRADATIONS SHALL BE APPROVED BY THE ENGINEER AND SHALL MEET THE FOLLOWING GRADATION REQUIREMENTS:

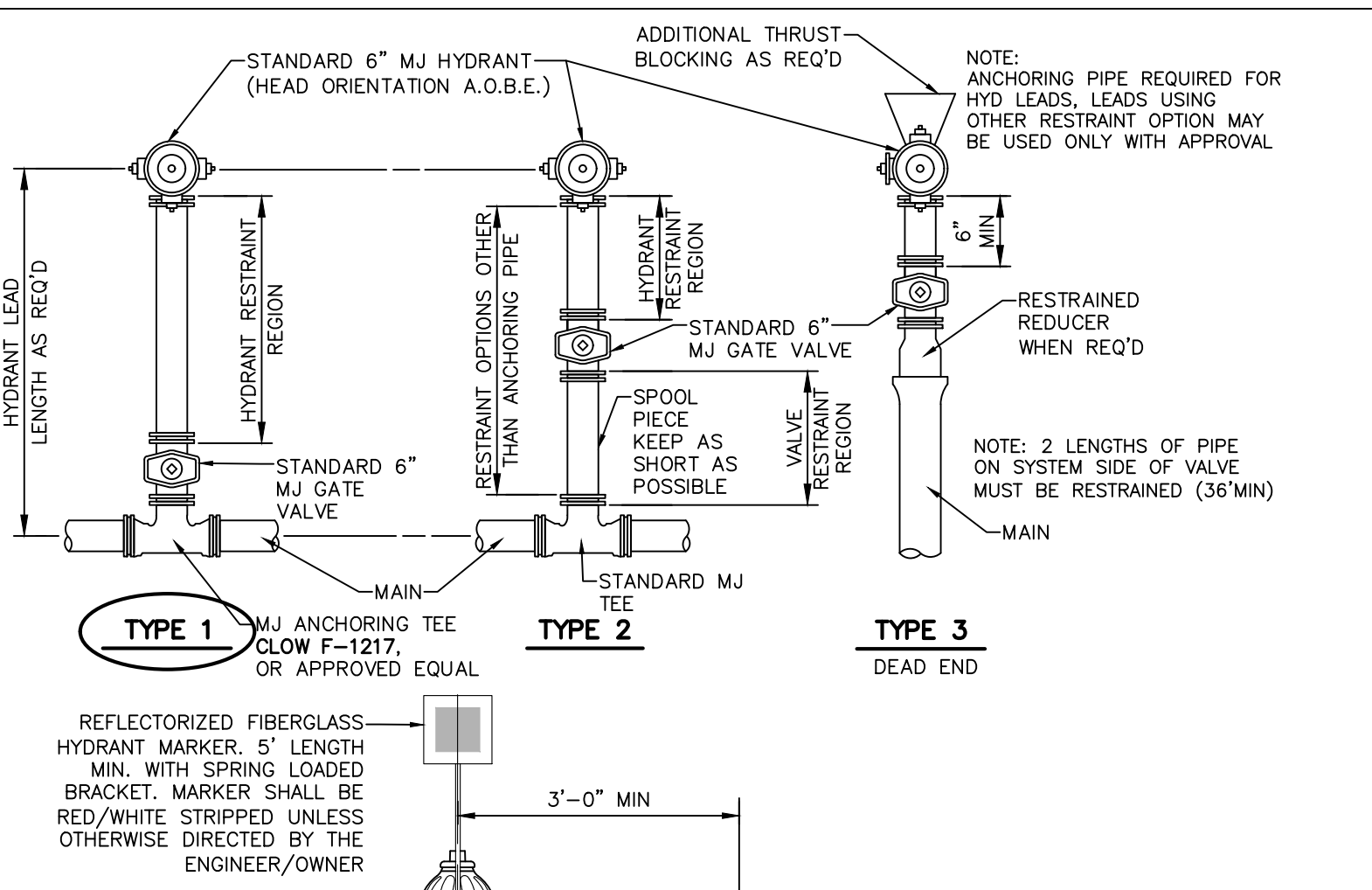
SIEVE DESIGNATION	% PASSING
4"	100%
NO. 40	0-70%
NO. 200	0-10%

IN NON-TRAFFIC UNPAVED AREAS TRENCH BACKFILL CAN BE MATERIALS EXCAVATED FROM THE TRENCH AS APPROVED BY THE ENGINEER AND COMPACTED TO 90% MODIFIED PROCTOR.

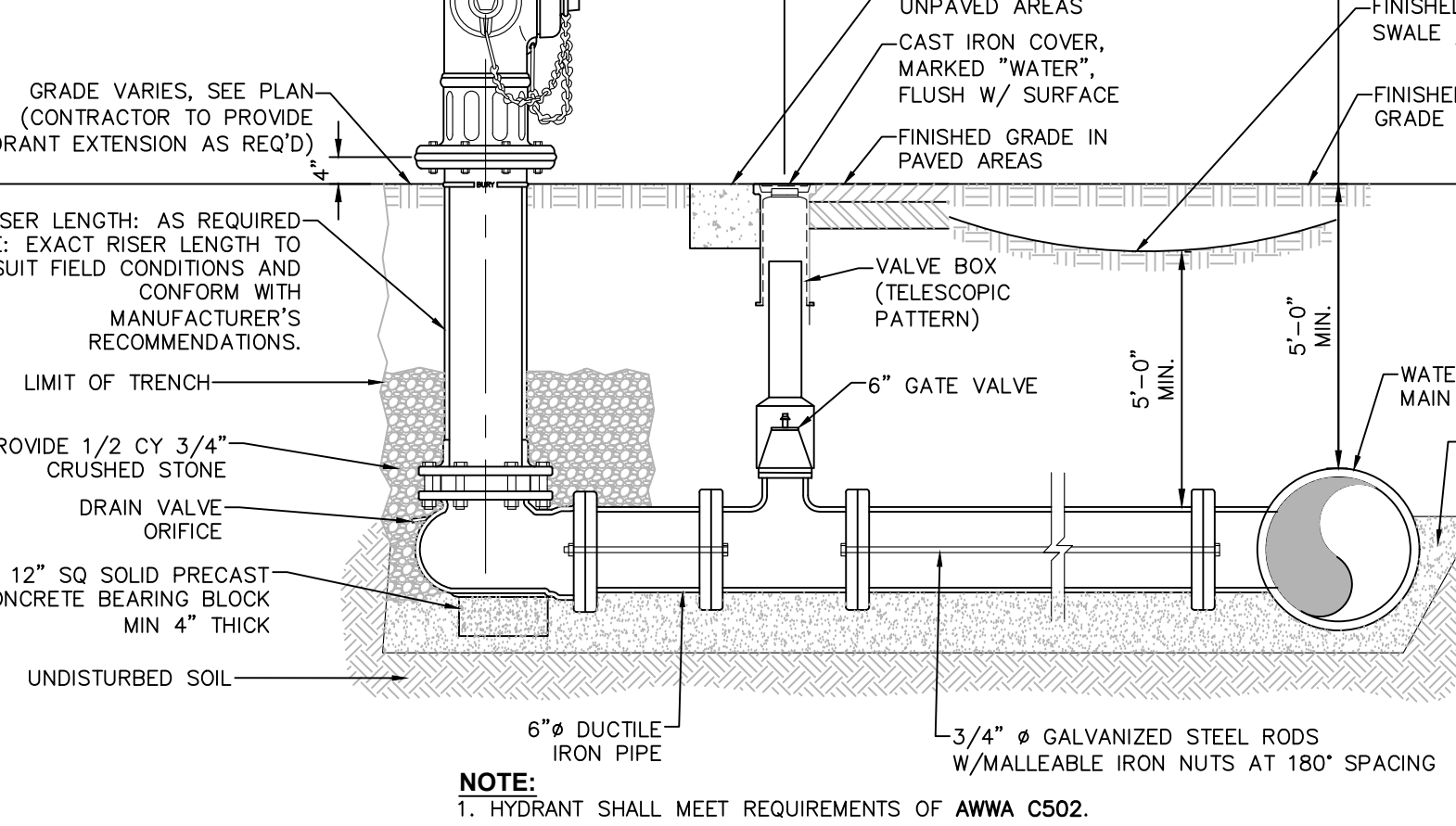
3. INSTALL CONTINUOUS DETECTABLE MARKING TAPE DURING BACKFILLING OF TRENCH FOR UNDERGROUND PIPING. LOCATE TAPE 12" BELOW FINISHED GRADE, DIRECTLY OVER PIPING, EXCEPT 6" BELOW SUBGRADE UNDER PAVEMENTS & SLAB.

4. TRENCHING SHALL BE IMPLEMENTED IN ACCORDANCE WITH O.S.H.A. STANDARDS.

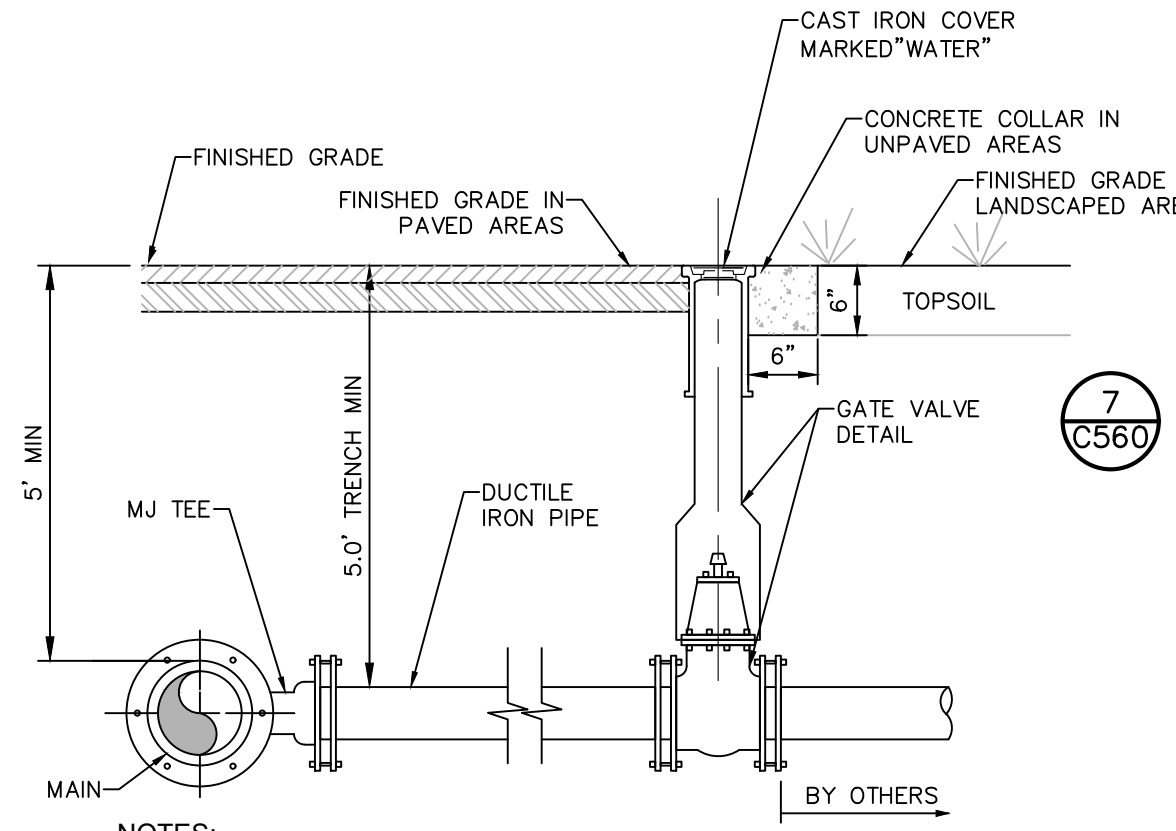
5. 5'-0" MIN COVER SHALL BE APPLIED TO WATER MAIN OR SANITARY SEWER FORCE MAINS ONLY.



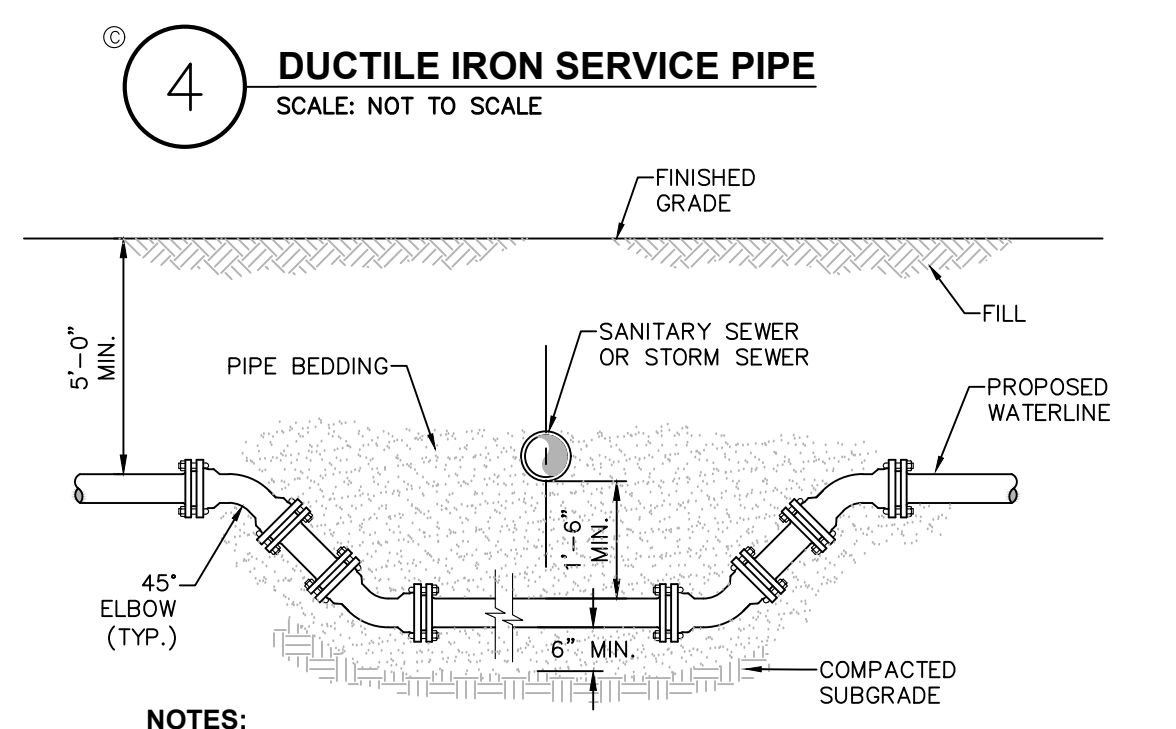
2 HYDRANT ASSEMBLY DETAIL
SCALE: NOT TO SCALE



3 TYPICAL GATE VALVE DETAIL
SCALE: NOT TO SCALE



4 DUCTILE IRON SERVICE PIPE
SCALE: NOT TO SCALE



5 WATERLINE OFFSET DETAIL
SCALE: NOT TO SCALE

SCHEDULE OF JOINT RESTRAINT- (PVC OR POLYWRAPPED DIP)
(LENGTH OF PIPE EACH SIDE OF FITTING TO BE RESTRAINED IN FEET "L")

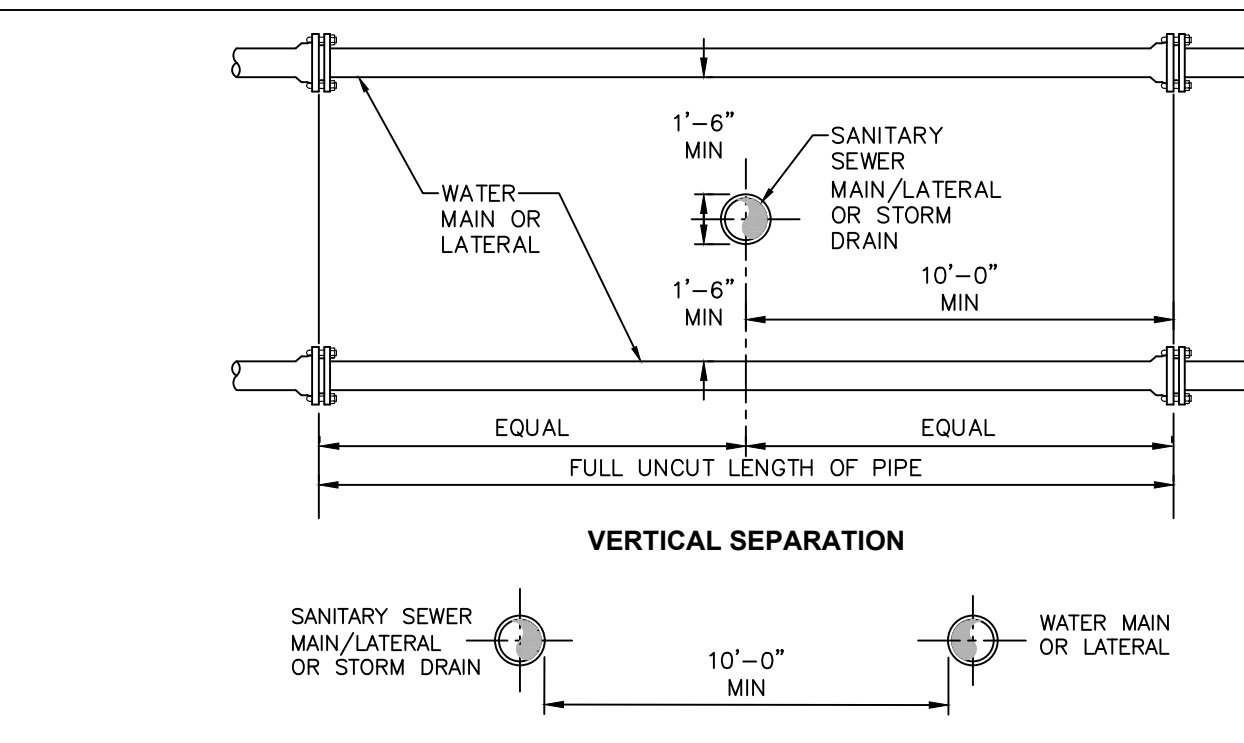
PIPE SIZE (INCHES)	FITTING TYPE				TEE	REDUCER
	TEE	HEAD	END	END		
30"	90'	45'	22 1/2'	11 1/2'	24'	18'
24"	198	82	39	20	163	166
18"	149	62	30	15	122	125
16"	134	56	27	14	109	112
14"	118	49	24	12	95	98
12"	102	43	21	11	82	85
10"	86	36	17	9	68	71
8"	71	30	15	7	56	59
6"	54	22	11	6	41	44
4"	38	16	8	4	28	31

NOTES:
1. THE LENGTH OF PIPE REQUIRING RESTRAINT IS BASED UPON THE FOLLOWING ASSUMPTIONS:

- A. BEDDING TYPE 2 - FLAT BOTTOM TRENCH, BACKFILL LIGHTLY CONSOLIDATED TO CENTER LINE OF PIPE.
- B. SOIL TYPE CLAY 1 - CLAY OF MEDIUM TO LOW PLASTICITY, LL<50, <25% COARSE PARTICLES [CL & CL-ML]:
CL - INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY GRAVELY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
ML - INORGANIC SILTS, VERY FINE SAND, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS.
- C. PIPE TABLE CALCULATION IS BASED ON PVC OR POLYWRAPPED DIP
- D. DEPTH TO TOP OF PIPE 5'-0" MINIMUM
- E. MAXIMUM OPERATING PRESSURE OF 150 PSI
- F. FACTOR OF SAFETY OF 1.5

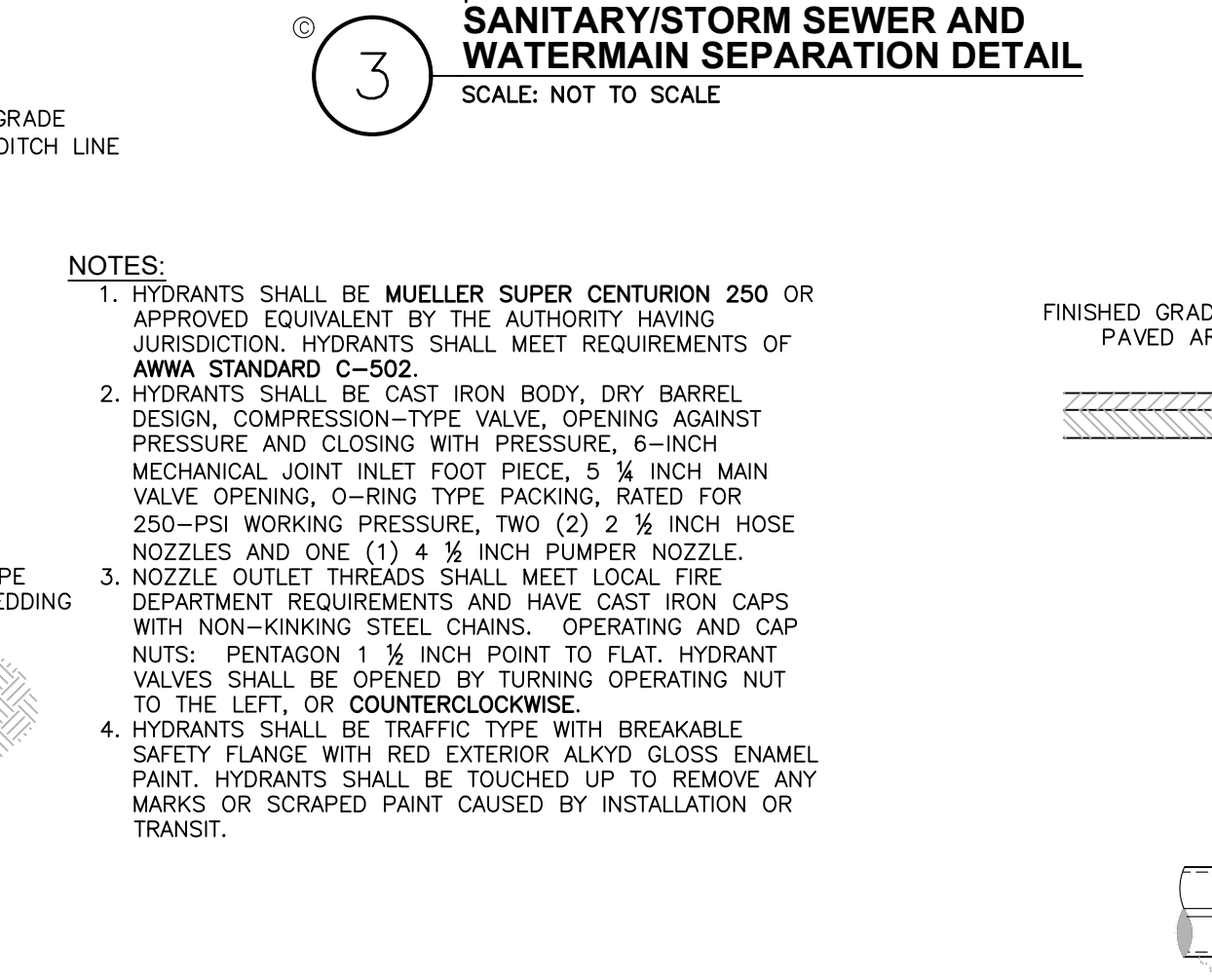
- 2. FOR END PLUGS, USE RESTRAIN PIPE LENGTH GIVEN FOR DEAD END FITTING.
- 3. THE LENGTH ("L") OF NEW PIPE TO BE RESTRAINED IS THE LENGTH FOR EACH SIDE OF THE FITTING.
- 4. THE ABOVE INFORMATION WAS PROVIDED USING THE THRUST RESTRAINT PROGRAM ISSUED BY THE DUCTILE IRON PIPE RESEARCH ASSOCIATION (DIPRA) AND IS BASED ON THE ASSUMPTIONS LISTED IN NOTE 1. RESTRAINED LENGTH REQUIREMENTS FOR FIELD CONDITIONS AND PIPE SIZES DIFFERING FROM THOSE LISTED ABOVE SHOULD BE EVALUATED SEPARATELY.
- 5. RESTRAINED JOINT PIPE AND FITTINGS SHALL BE USED ONLY AS ALLOWED BY THE PROJECT PLANS AND/OR SPECIFICATION. (IF THRUST BLOCKS ARE USED SEE THRUST BLOCK DETAIL)
- 6. THE FITTINGS: PIPE SIZE SHOWN FOR THE TEE IS THE SIZE OF THE RUN. THE RESTRAINED LENGTH SHOWN IS FOR THE BRANCH. THE VALUE OF THE RESTRAINED LENGTH ASSUMES THAT THE SIZE OF THE BRANCH IS EQUAL TO OR LESS THAN THE RUN. THE VALUE OF THE L=USED IN THE TABLE IS 10 FEET. (L= TOTAL LENGTH BETWEEN FIRST JOINTS ON EITHER SIDE OF THE TEE ON THE RUN.)

6 JOINT RESTRAINT SCHEDULE AND NOTES
SCALE: NOT TO SCALE



3 SANITARY/STORM SEWER AND WATERMAIN SEPARATION DETAIL
SCALE: NOT TO SCALE

NOTES:
1. NO DEVIATION IN THE SEPARATION REQUIREMENTS WILL BE PERMITTED WITHOUT THE EXPRESS APPROVAL OF THE NYS HEALTH DEPARTMENT. OFFSETTING OF WATERLINE SHALL BE REQUIRED WHERE SEPARATION DISTANCES CANNOT BE MAINTAINED.
2. WHEN IT IS IMPOSSIBLE TO OBTAIN VERTICAL SEPARATION AS INDICATED ABOVE, BOTH THE WATER MAIN AND THE SEWER MAIN SHALL BE CONSTRUCTED OF MECHANICAL JOINT, DUCTILE IRON PIPE OR PVC WATER WORKS GRADE PRESSURE PIPE FOR 10' EACH SIDE OF CROSSING AND SHALL BE PRESSURE TESTED TO 150psi TO ASSURE WATER TIGHTNESS.

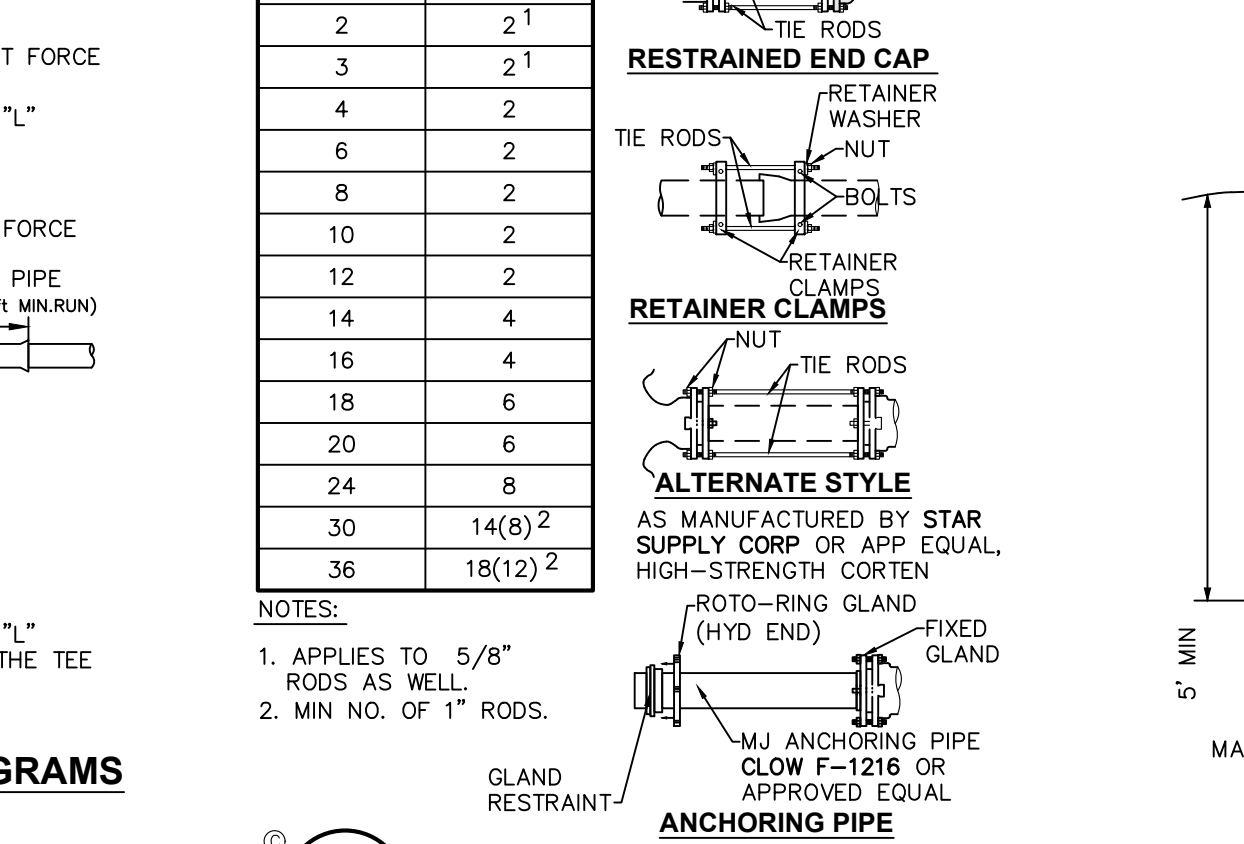


5 RESTRAINED JOINT THRUST RESTRAINT DETAIL
SCALE: NOT TO SCALE

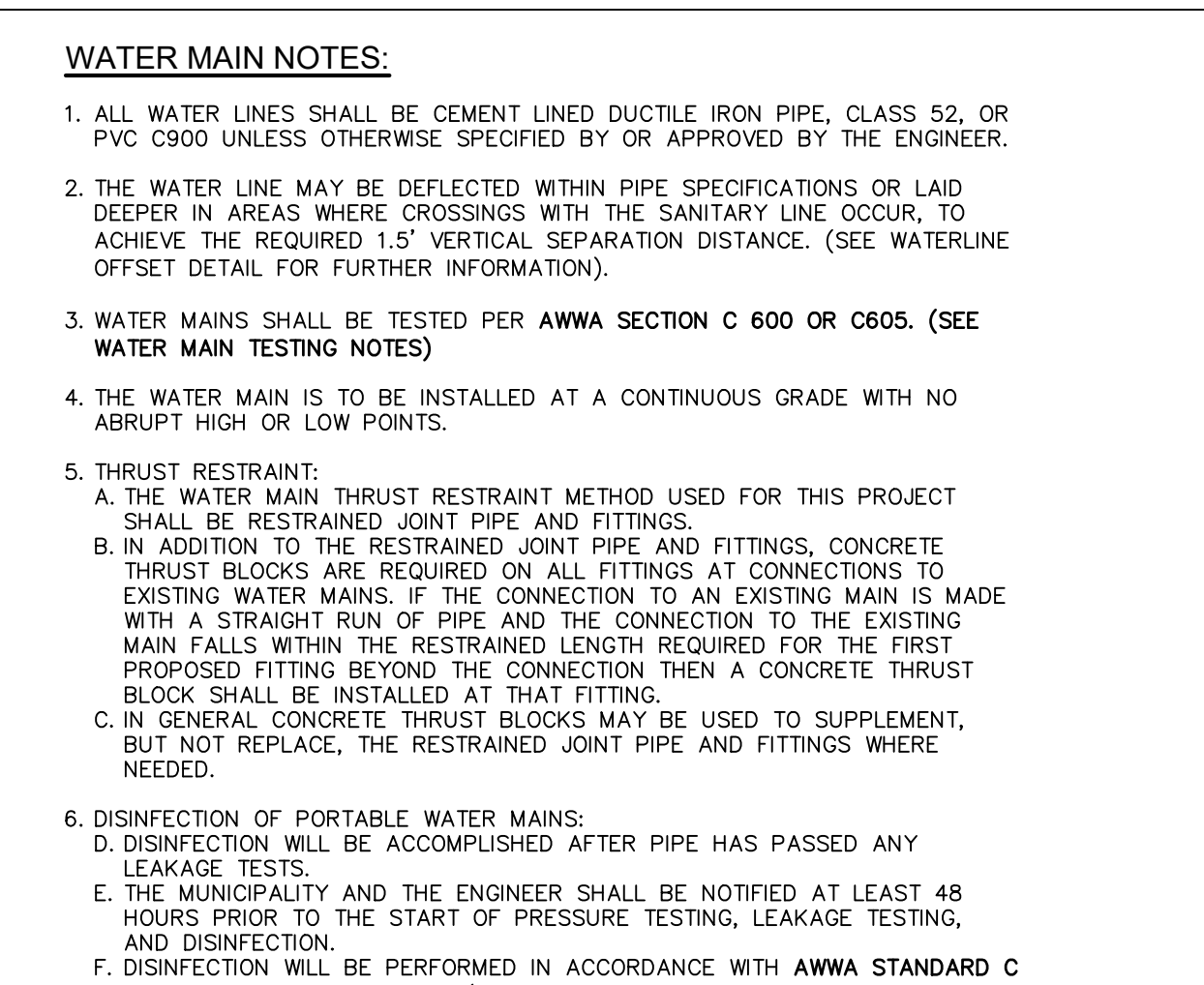
NO. OF TIE RODS REQUIRED

PIPE SIZE INCHES	MIN NO. OF 3/4" RODS
2	2
3	2
4	2
6	2
8	2
10	2
12	2
14	4
16	4
18	6
20	6
24	8
30	14(8) ²
36	18(12) ²

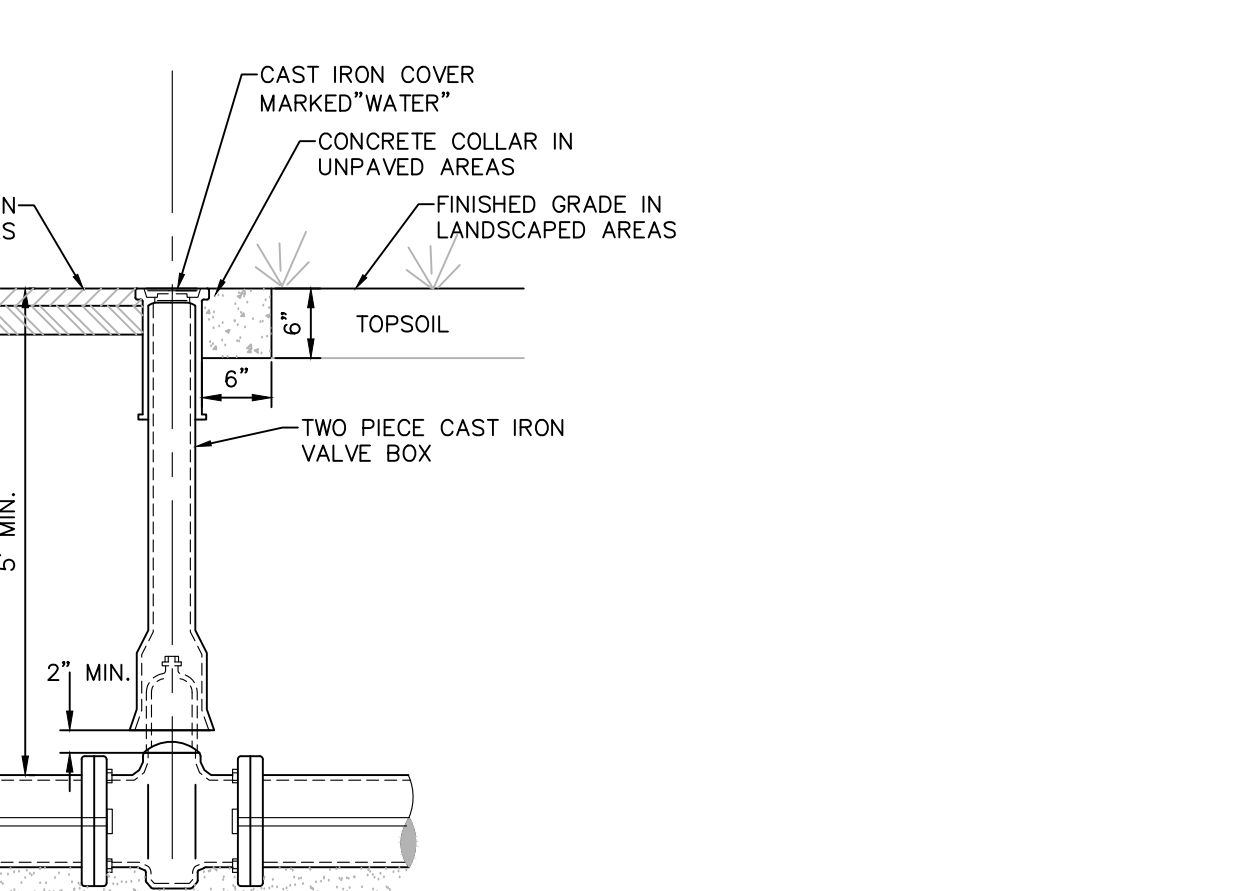
NOTES:
1. APPLIES TO 5/8" RODS AS WELL
2. MIN NO. OF 1" RODS.



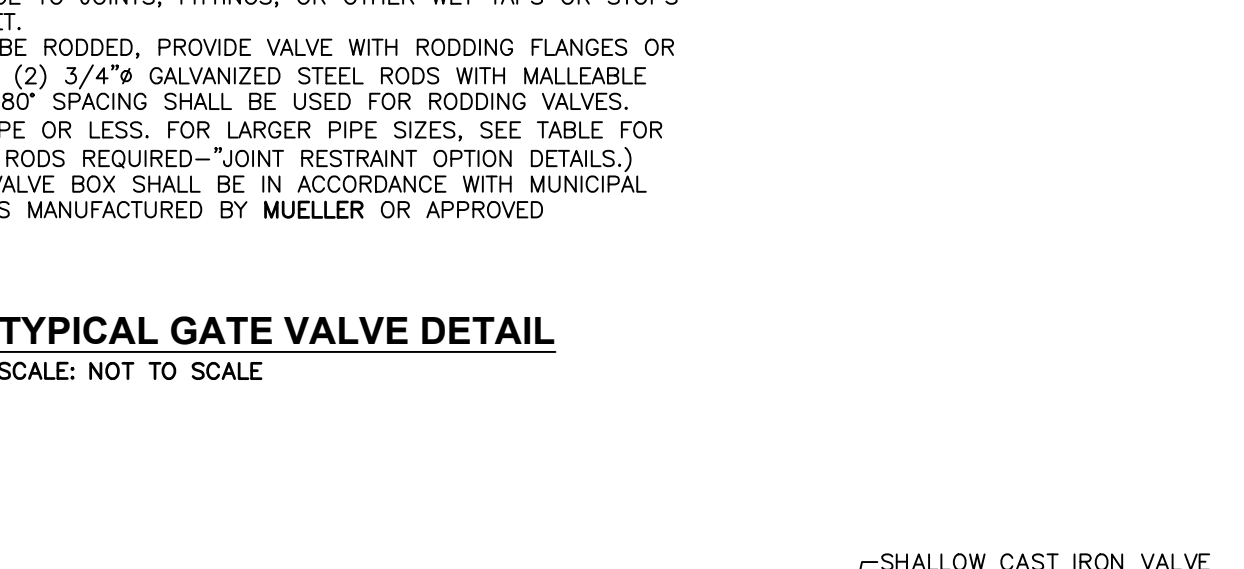
8 JOINT RESTRAINT OPTIONS
SCALE: NOT TO SCALE



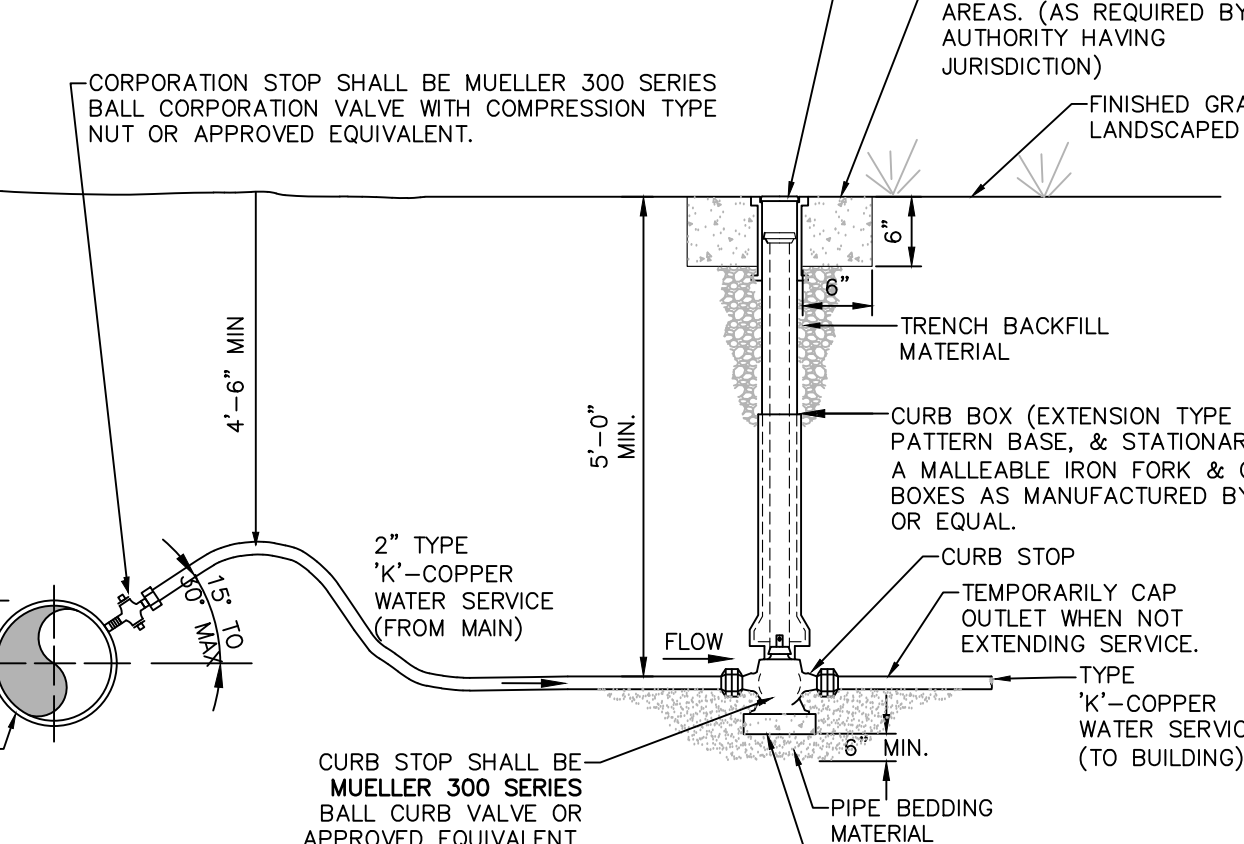
10 COPPER WATER SERVICE
SCALE: NOT TO SCALE



NOTES:
1. ALL WATER LINES SHALL BE CEMENT LINED DUCTILE IRON PIPE, CLASS 52, OR PVC C900 UNLESS OTHERWISE SPECIFIED BY OR APPROVED BY THE ENGINEER.
2. THE WATER LINE MAY BE DEFLECTED WITHIN PIPE SPECIFICATIONS OR LAID DEEPER IN AREAS WHERE CROSSINGS WITH THE SANITARY LINE OCCUR, TO ACHIEVE THE REQUIRED 1.5' VERTICAL SEPARATION DISTANCE. (SEE WATERLINE OFFSET DETAIL FOR FURTHER INFORMATION).
3. WATER MAINS SHALL BE TESTED PER AWWA SECTION C 600 OR C605. (SEE WATER MAIN TESTING NOTES)
4. THE WATER MAIN IS TO BE INSTALLED AT A CONTINUOUS GRADE WITH NO ABRUPT HIGH OR LOW POINTS.
5. THRUST RESTRAINT:
A. THE WATER MAIN THRUST RESTRAINT METHOD USED FOR THIS PROJECT SHALL BE RESTRAINED JOINT PIPE AND FITTINGS.
B. IN ADDITION TO THE RESTRAINED JOINT PIPE AND FITTINGS, CONCRETE THRUST BLOCKS ARE REQUIRED ON ALL FITTINGS AT CONNECTIONS TO EXISTING WATER MAINS. IF THE CONNECTION TO AN EXISTING MAIN IS MADE WITH A STRAIGHT RUN OF PIPE AND THE CONNECTION TO THE EXISTING MAIN FALLS WITHIN THE RESTRAINED LENGTH REQUIRED FOR THE FIRST PROPOSED FITTING BEYOND THE CONNECTION THEN A CONCRETE THRUST BLOCK SHALL BE INSTALLED AT THAT FITTING.
C. IN GENERAL CONCRETE THRUST BLOCKS MAY BE USED TO SUPPLEMENT, BUT NOT REPLACE, THE RESTRAINED JOINT PIPE AND FITTINGS WHERE NEEDED.
6. DISINFECTION OF PORTABLE WATER MAINS:
D. DISINFECTION WILL BE ACCOMPLISHED AFTER PIPE HAS PASSED ANY LEAKAGE TESTS.
E. THE MUNICIPALITY AND THE ENGINEER SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO THE START OF PRESSURE TESTING, LEAKAGE TESTING, AND DISINFECTION.
F. DISINFECTION WILL BE PERFORMED IN ACCORDANCE WITH AWWA STANDARD C 651-05 OR LATEST EDITION, (EXCLUDING SECTION 4.4.2 COVERING THE TABLET METHOD). (SEE WATER MAIN DISINFECTION NOTES)



NOTES:
1. NON-RISING STEM GATE VALVE, OPERATING DIRECTION SHALL BE COUNTERCLOCKWISE TO OPEN.
2. MINIMUM DISTANCE TO JOINTS, FITTINGS, OR OTHER WET TAPS OR STOPS SHALL BE 3 FEET.
3. IF VALVE IS TO BE RODDED, PROVIDE VALVE WITH RODDING FLANGES OR EYEBOLTS. TWO (2) 3/4" GALVANIZED STEEL RODS WITH MALLEABLE IRON NUTS AT 180° SPACING SHALL BE USED FOR RODDING VALVES.
4. GATE VALVE & VALVE BOX SHALL BE IN ACCORDANCE WITH MUNICIPAL STANDARDS & AS MANUFACTURED BY MUELLER OR APPROVED EQUIVALENT.



NOTES:
1. MINIMUM DISTANCE TO JOINTS, FITTINGS OR OTHER WET TAPS OR STOPS SHALL BE MAINTAINED IN ACCORDANCE WITH REGULATORY AGENCY.

VILLAGE OF WAPPINGERS FALLS
PLANNING BOARD
FINAL APPROVAL DATE: _____
PB CHAIR: _____ DATE: _____
WITNESS: _____

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NO.	DATE:	DESCRIPTION:
2	3/15/23	Village Comments
1	2/8/23	Village Comments

Revisions

PROJECT NUMBER: 2230010

DRAWN BY: TK

REVIEWED BY: CPL

ISSUED FOR: PLANNING BOARD APPROVAL

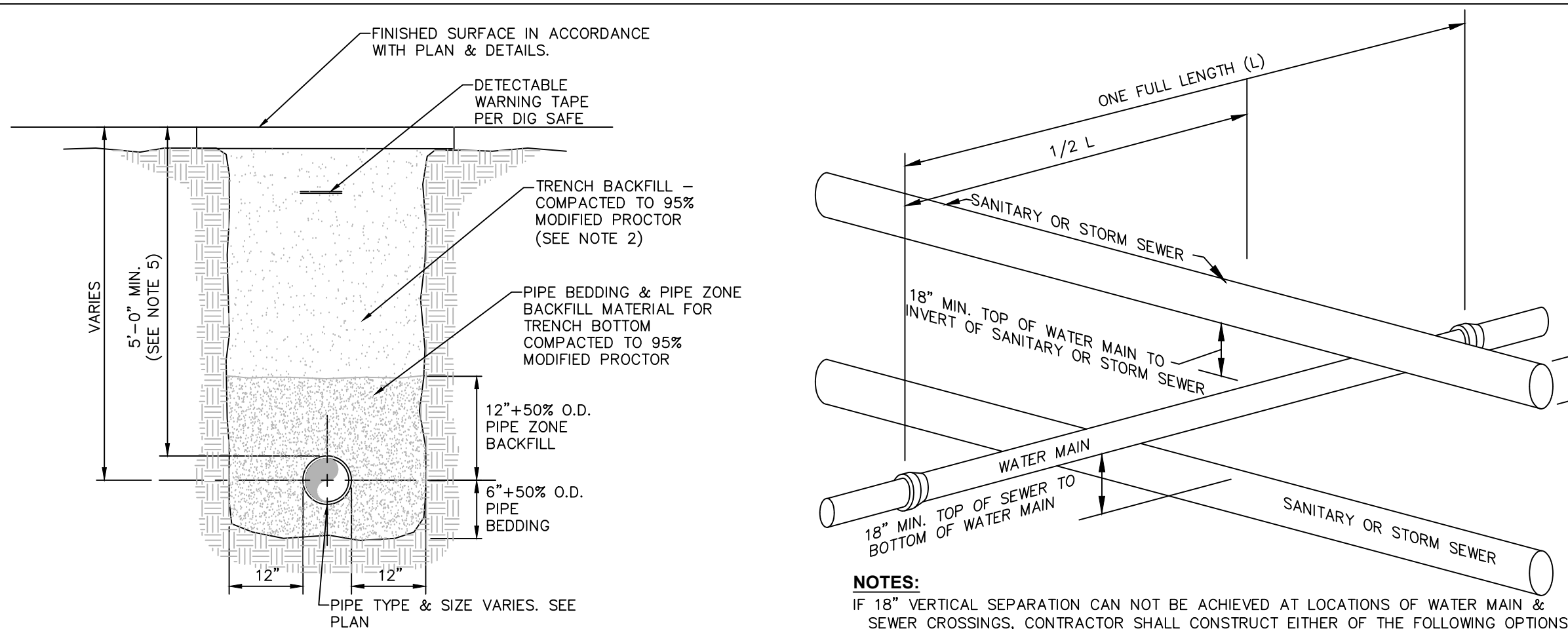
DATE: 12/7/22

DRAWING NAME:

SANITARY SEWER SYSTEM DETAIL

DRAWING NUMBER:

C570



NOTES:
1. PIPE BEDDING & PIPE ZONE BACKFILL SHALL BE AN IMPORTED NATURAL RUN-OF-BANK (R.O.B.) SAND OR A MIXTURE OF CRUSHED STONE AND GRAVEL, FREE OF SOFT, NONDURABLE PARTICLES, ORGANIC MATERIALS AND ELONGATED PARTICLES, AND SHALL BE WELL GRADED FROM FINE TO COARSE PARTICLES. BEDDING GRADATIONS SHALL BE APPROVED BY THE ENGINEER AND SHALL MEET THE FOLLOWING GRADATION REQUIREMENTS:

SIEVE DESIGNATION	% PASSING
3/4"	100%
NO. 40	0-70%
NO. 200	0-10%

2. TRENCH BACKFILL SHALL BE A NATURAL RUN-OF-BANK (R.O.B.) OR PROCESSED GRAVEL, OR EXCAVATED MATERIAL FREE OF SOFT, NONDURABLE PARTICLES, ORGANIC MATERIALS AND ELONGATED PARTICLES, AND SHALL BE WELL GRADED FROM FINE TO COARSE PARTICLES. TRENCH BACKFILL GRADATIONS SHALL BE APPROVED BY THE ENGINEER AND SHALL MEET THE FOLLOWING GRADATION REQUIREMENTS:

SIEVE DESIGNATION	% PASSING
4"	100%
NO. 40	0-70%
NO. 200	0-10%

IN NON-TRAFFIC UNPAVED AREAS TRENCH BACKFILL CAN BE MATERIALS EXCAVATED FROM THE TRENCH AS APPROVED BY THE ENGINEER AND COMPACTED TO 90% MODIFIED PROCTOR.

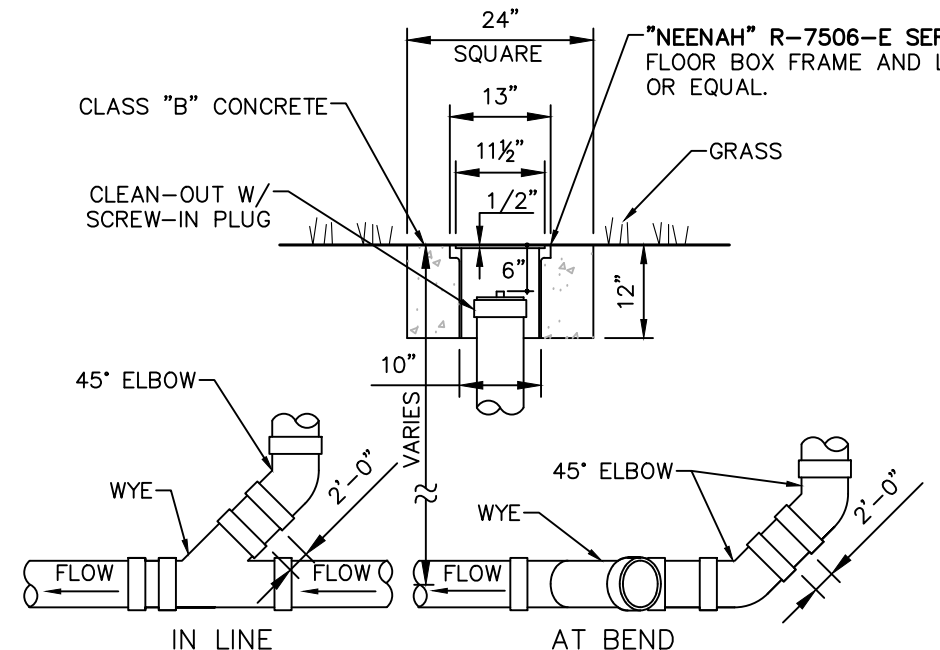
3. INSTALL CONTINUOUS DETECTABLE MARKING TAPE DURING BACKFILLING OF TRENCH FOR UNDERGROUND PIPING. LOCATE TAPE 12" BELOW FINISHED GRADE, DIRECTLY OVER PIPING, EXCEPT 6" BELOW SUBGRADE UNDER PAVEMENTS & SLAB.

4. TRENCHING SHALL BE IMPLEMENTED IN ACCORDANCE WITH O.S.H.A. STANDARDS.

5. 5"-0" MIN COVER SHALL BE APPLIED TO WATER MAIN OR SANITARY SEWER FORCE MAINS ONLY.

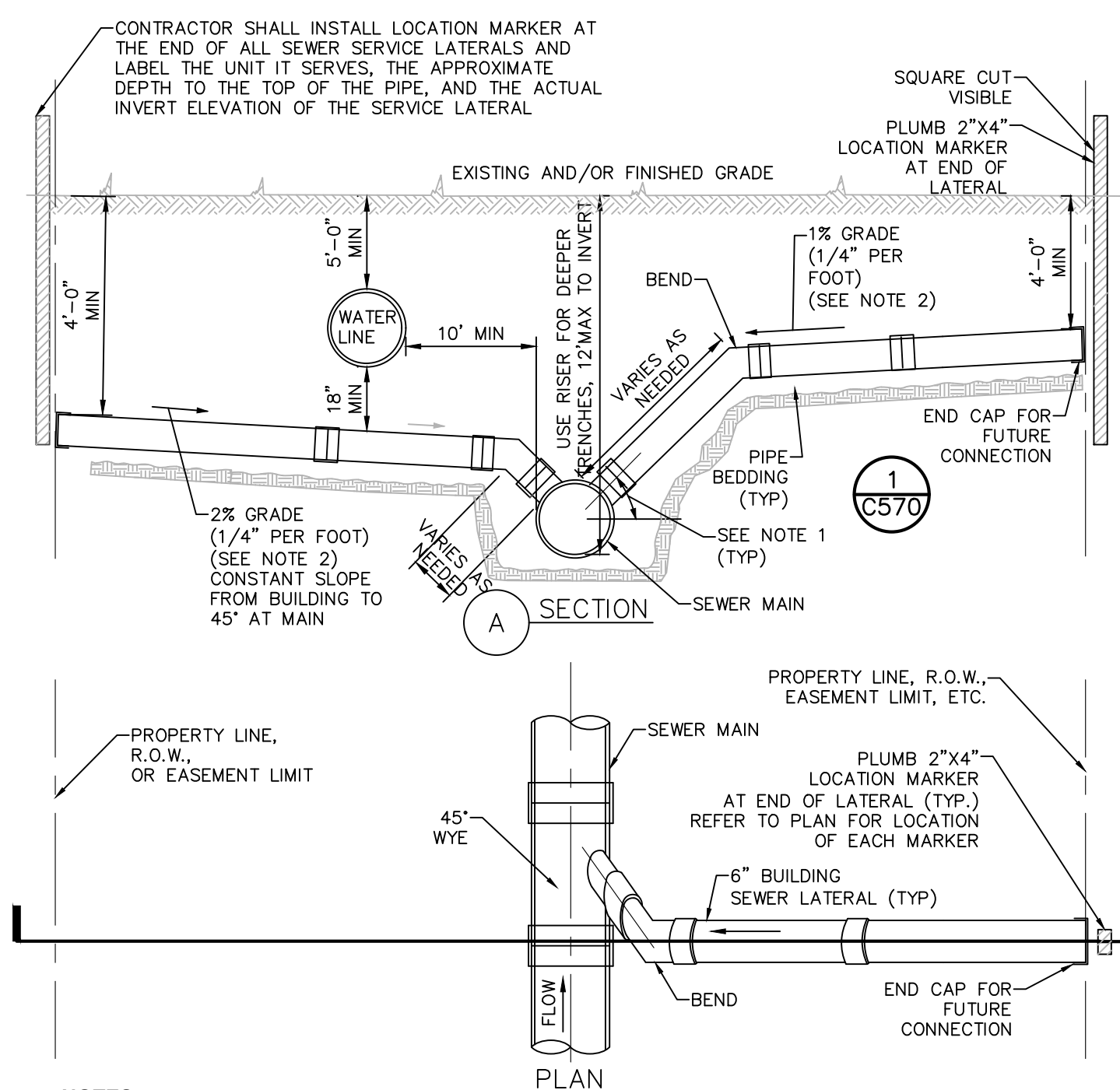
1 PIPE TRENCH DETAIL (TYPICAL)
SCALE: NOT TO SCALE

2 SECTION WATER/SEWER SEPARATION REQUIREMENTS
SCALE: NOT TO SCALE



NOTES:
1. SEWER PIPE FITTINGS TO BE ASTM D-3033 OR D-3034 SDR-35.
2. TO BE USED FOR GRAVITY PORTION OF SANITARY SYSTEM AS WELL AS THE STORM ROOF DRAINAGE SYSTEM.

3 CLEAN OUT - NON TRAFFIC AREAS
SCALE: NOT TO SCALE



NOTES:
1. OPTIMUM ANGLE IS 45°. THE ENGINEER MAY CALL FOR OTHER ANGLES TO SUIT JOB CONDITIONS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING THE SEWER LATERAL AS CONFIGURED AT THE SLOPE SPECIFIED, AND FOR ESTABLISHING THE ELEVATION AT THE TERMINATION POINT OF THE LATERAL. IF EXISTING UTILITIES OR OTHER FEATURES PREVENT INSTALLATION IN THAT MANNER, THE ENGINEER SHALL BE CONSULTED PRIOR TO INSTALLATION.

4 STANDARD SEWER SERVICE CONNECTION PLAN
SCALE: NOT TO SCALE

FLEXIBLE JOINT & WATERSTOP REQUIREMENTS

SEWER PIPE TYPE	FLEXIBLE JOINT TYPE IN & OUT	"A" DISTANCE (FEET)	"B" DISTANCE (FEET)	MH WATER STOP REQD.
DUCTILE IRON	STD RUBBER GASKET	10'MAX	NO LIMIT	YES
PVC	SPECIAL FLEXIBLE JOINT COUPLING	1'MAX	3'MAX	YES

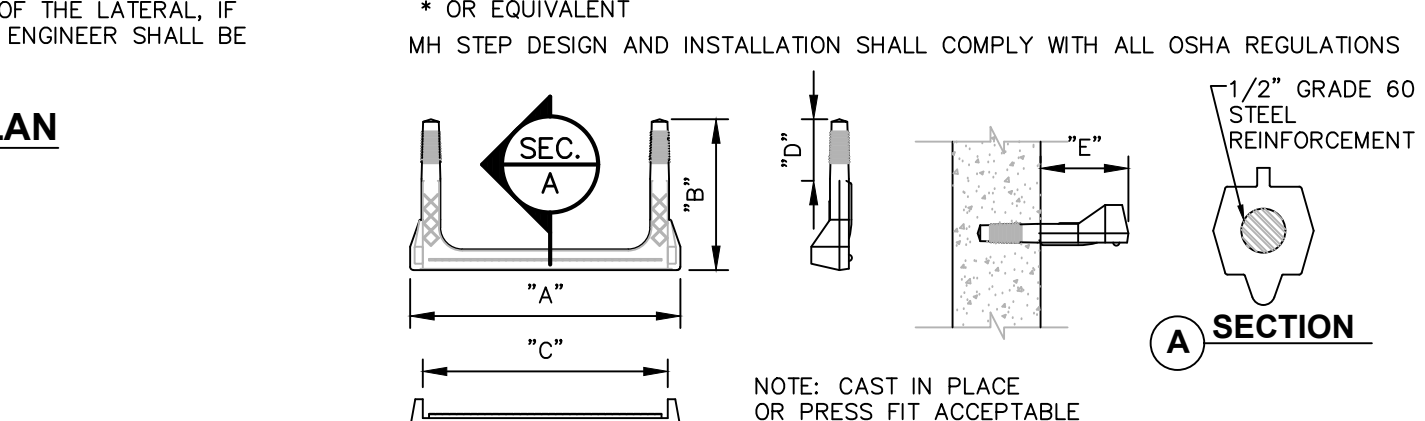
NOTES:
1. THIS DETAIL SHALL BE USED AT NO EXTRA COST IN PLACE OF EITHER OF THE PIPE-TO-MANHOLE CONNECTION DETAILS ONLY WHEN CONNECTING TO EXISTING MANHOLES THAT HAVE NO FLEXIBLE RUBBER BOOT PROVIDED.
2. REFERENCE MANHOLE DETAIL(S) FOR REQUIRED INVERT CHANNEL CONFIGURATION.

7 PIPE CONNECTION TO EXISTING MANHOLE - CEMENT GROUT SEAL WITH WATER STOP
SCALE: NOT TO SCALE

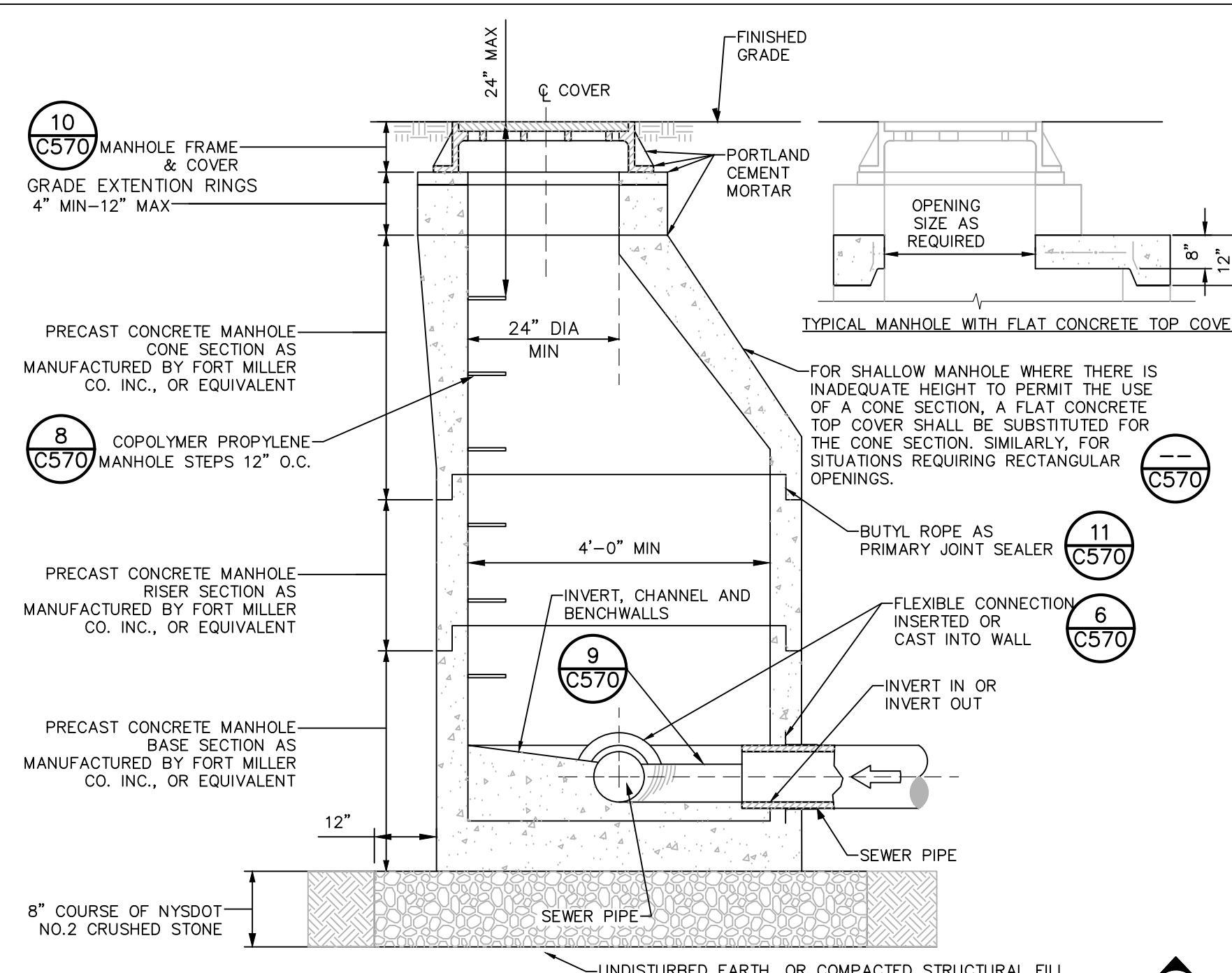
ACCEPTABLE MANHOLE STEPS

MANUFACTURER	PATTERN NUMBER	"A" STEP WIDTH	"B" LEG LENGTH	"C" RUNG CLEAR	"D" EMBED-MENT	"E" RUNG CLEAR
M.A. INDUSTRIES INC*	PS2-PF	14 3/4	9 1/4	13 3/4	3 3/8	5 7/8
M.A. INDUSTRIES INC*	PS2-PFS	14 3/4	8 1/4	13 3/4	3 3/8	4 7/8

* OR EQUIVALENT
MH STEP DESIGN AND INSTALLATION SHALL COMPLY WITH ALL OSHA REGULATIONS

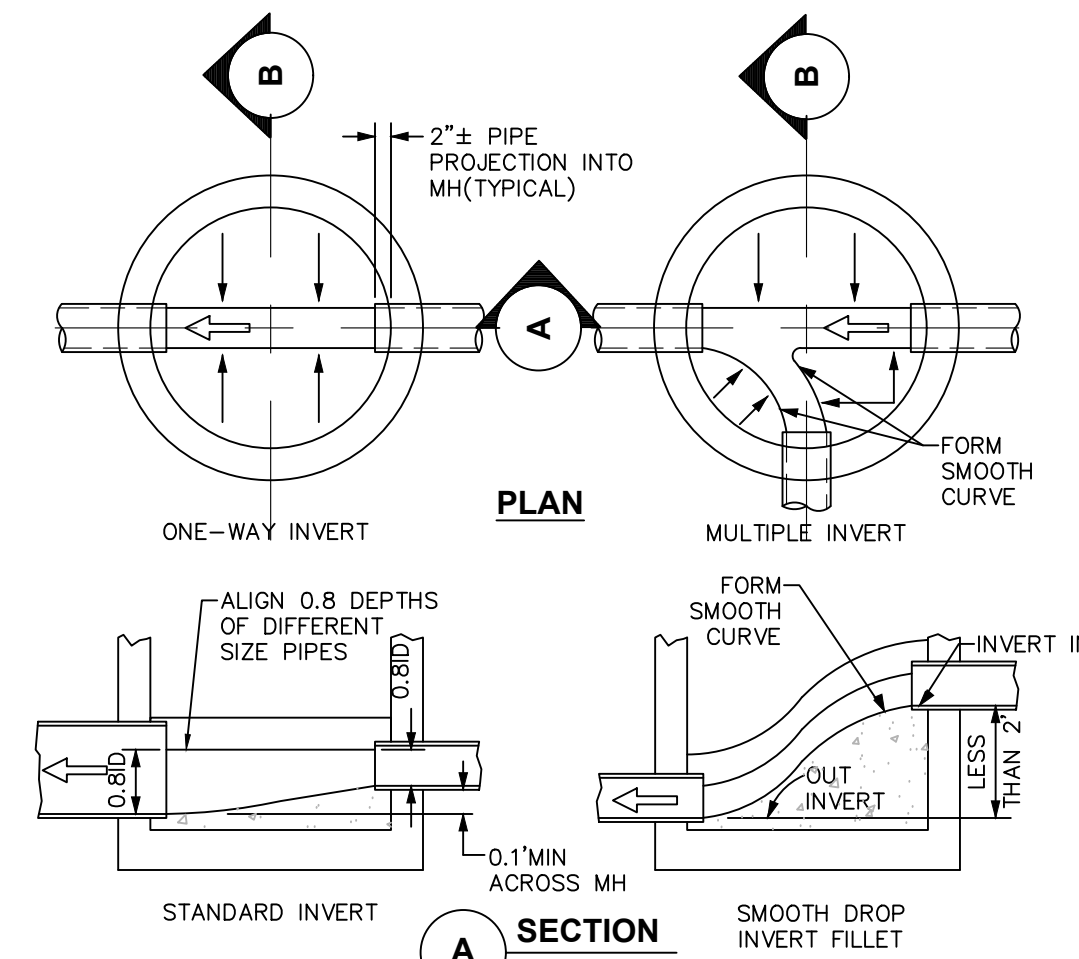


8 COPOLYMER POLYPROPYLENE MH STEP
SCALE: NOT TO SCALE



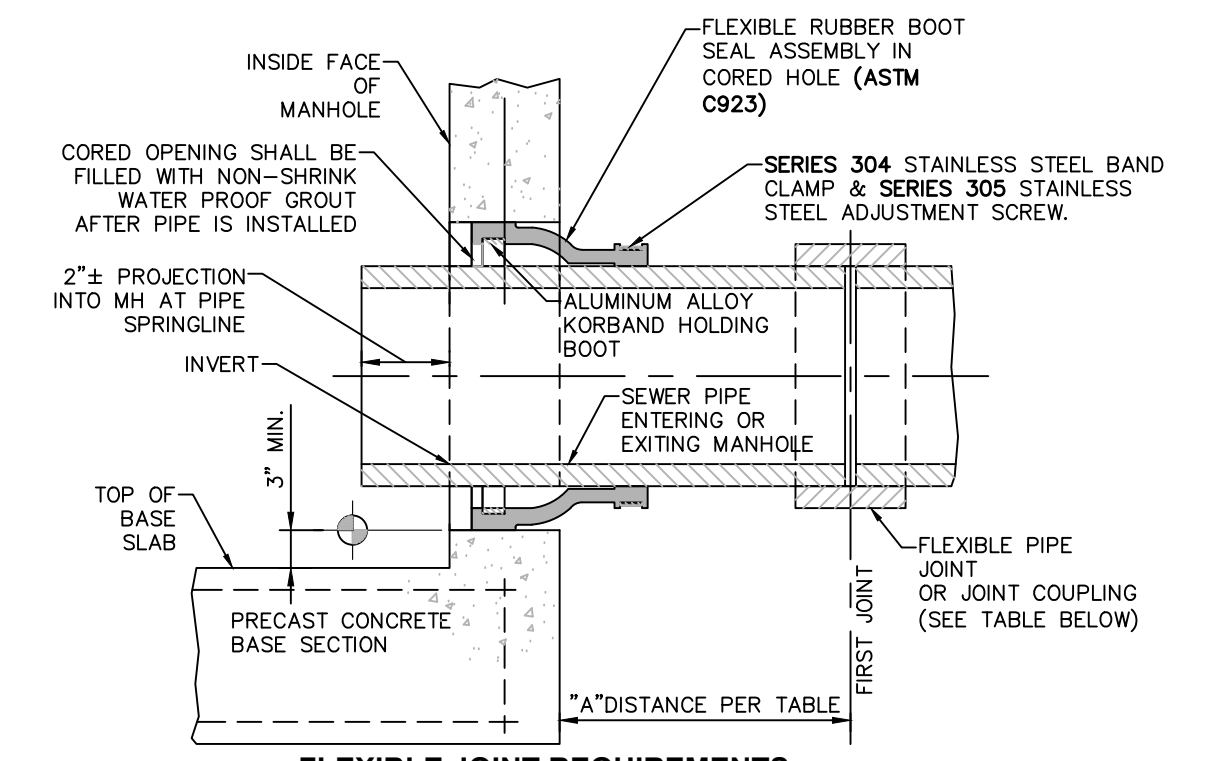
NOTES:
1. USE ONLY WET-CAST UNITS. DRY-CAST NOT ACCEPTABLE.
2. INVERT SHALL BE FILED.
3. REINFORCEMENT FOR MANHOLE COMPONENTS SHALL BE DESIGNED BY A LICENSED NEW YORK STATE PROFESSIONAL ENGINEER PRIOR TO CONSTRUCTION. SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW. STRUCTURE SHALL BE DESIGNED FOR HS20-44 VEHICULAR LOADING PLUS 25% IMPACT.
4. CONCRETE TO TEST 4,500 PSI AT 28 DAYS IN CONFORMANCE WITH A.S.T.M. C-478.
5. BENCH SHALL BE BUILT FOR FLOW BETWEEN INLET AND OUTLET.
6. EACH MANHOLE EXTERIOR SHALL RECEIVE TWO BITUMINOUS COATS.

5 PRECAST CONCRETE MANHOLE
SCALE: NOT TO SCALE



NOTE:
INLET AND OUTLET OF PIPES SHOWN ON PLAN VIEW OF BASE ARE NOT NECESSARILY TYPICAL OF ALL MANHOLES. REFER TO UTILITY PLAN FOR INLET AND OUTLET DIRECTIONS.

9 INVERT, CHANNEL AND BENCHWALLS
SCALE: NOT TO SCALE

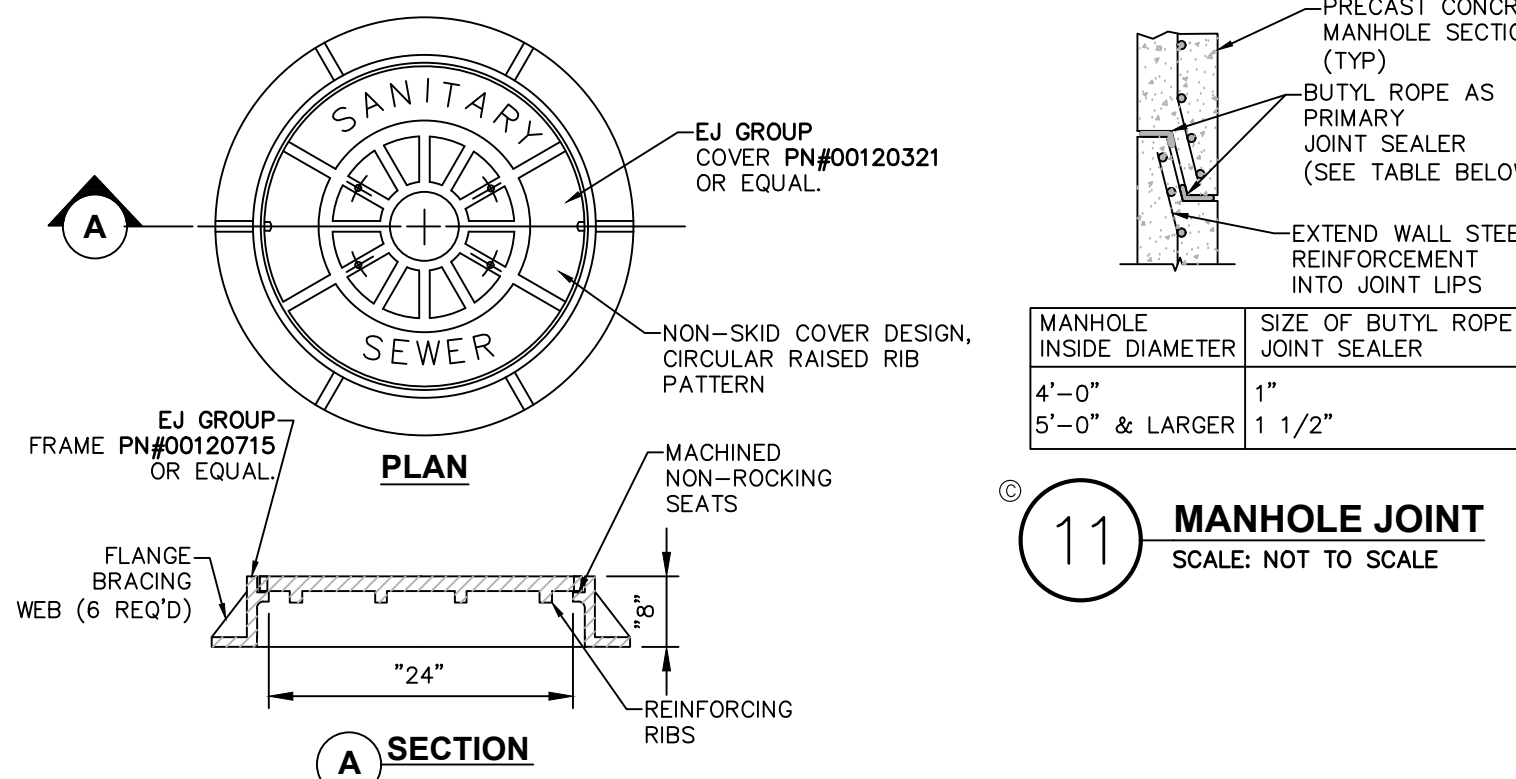


FLEXIBLE JOINT REQUIREMENTS

SEWER PIPE TYPE	FLEXIBLE JOINT TYPE IN & OUT	"A" DISTANCE (FEET)
DUCTILE IRON	STD RUBBER GASKET PIPE JOINT ONLY	10' MAX
PVC	STD RUBBER GASKET PIPE JOINT ONLY	3' MAX

NOTE: REFERENCE MANHOLE DETAIL(S) FOR REQUIRED INVERT CHANNEL CONFIGURATION.

6 PIPE CONNECTION TO MANHOLE - PRECAST OR CORED HOLE W/ INSERTED FLEXIBLE BOOT
SCALE: NOT TO SCALE



10 HEAVY DUTY STANDARD CAST IRON MH COVER
SCALE: NOT TO SCALE

MANHOLES AND OTHER BELOW GRADE STRUCTURES:

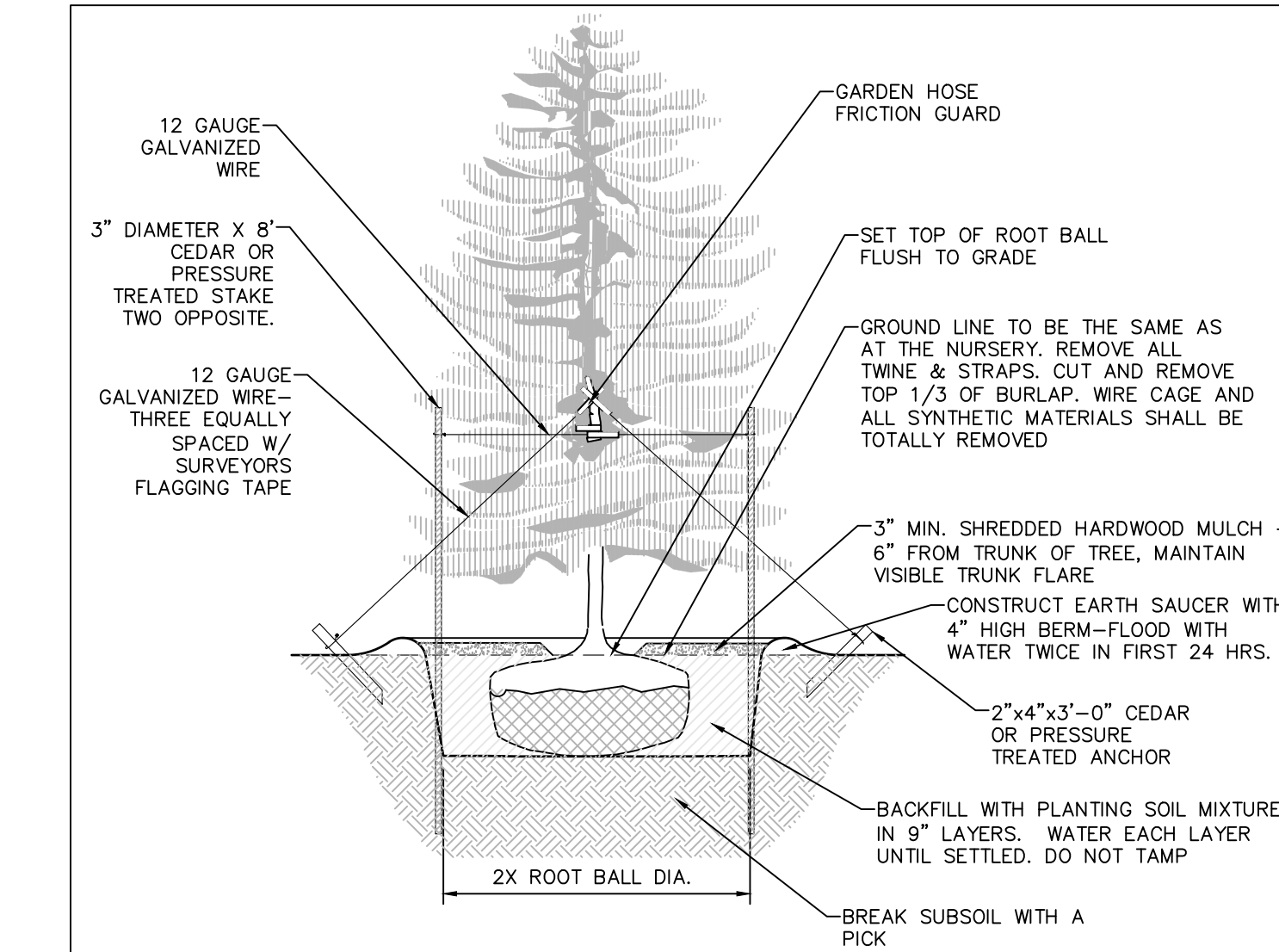
- STRUCTURAL DESIGN FOR MANHOLES AND OTHER BELOW-GRADE PRECAST CONCRETE STRUCTURES:**
 - NON-TRAFFIC LOADS:** BELOW GRADE PRECAST CONCRETE STRUCTURES SHALL BE DESIGNED TO WITHSTAND LOADS IMPOSED BY STRUCTURE WEIGHT, EARTH COVER, LATERAL PRESSURE FROM EARTH AND GROUND WATER, AND LIVE LOADS SUCH AS PEDESTRIAN TRAFFIC OR MACHINERY ON OR ABOVE THE STRUCTURE; AND
 - TRAFFIC LOADS:** BELOW GRADE PRECAST CONCRETE STRUCTURES SHALL BE DESIGNED TO ALSO WITHSTAND TRAFFIC LOADS CREATED BY AN HS20-44 TRUCK PLUS 25% IMPACT AS DEFINED IN THE LATEST EDITION OF THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) DESIGN STANDARDS.
- MATERIAL WHICH SHALL BE UTILIZED IN THE CONSTRUCTION OF PRECAST CONCRETE STRUCTURES:**
 - CEMENT: ASTM C-150, TYPES III, III-V, VI
 - SAND: NYSDOT STD. SPEC. SECTION NO. 703-0 CONCRETE SAND
 - STONE: NYSDOT STD. SPEC. SECTION NO. 703-02 COARSE AGGREGATE
 - STEEL BAR REINFORCEMENT: ASTM A615, GRADE 60
 - WIRE MESH REINFORCEMENT: ASTM A185 PLAN
 - CONCRETE STRENGTH (28 DAY): 4,500 PSI (F'C)
 - ENTRAINED AIR: 5% MIN.
- ALL CASTINGS (FRAMES AND COVERS, FRAMES AND GRATES, ETC) FOR USE IN CONJUNCTION WITH MANHOLES AND OTHER BELOW GRADE STRUCTURES SHALL BE MANUFACTURED FROM GRAY IRON OR DUCTILE IRON. GRAY IRON SHALL CONFORM WITH ASTM A 48, CLASS 30B AND DUCTILE IRON SHALL CONFORM WITH ASTM A 536 AND BE OF A GRADE APPROPRIATE TO ITS INTENDED USE.
- ALL CASTINGS (FRAMES AND COVERS, FRAMES AND GRATES, ETC) FOR USE IN CONJUNCTION WITH MANHOLES AND OTHER BELOW GRADE STRUCTURES SHALL BE DESIGNED TO WITHSTAND AASHTO HS 20-44 HIGHWAY LOADING PLUS 25% IMPACT.
- ALL ASTM REFERENCES SHALL BE FOR THE LATEST ACTIVE STANDARD.

VILLAGE OF WAPPINGERS FALLS
PLANNING BOARD

FINAL APPROVAL DATE: _____

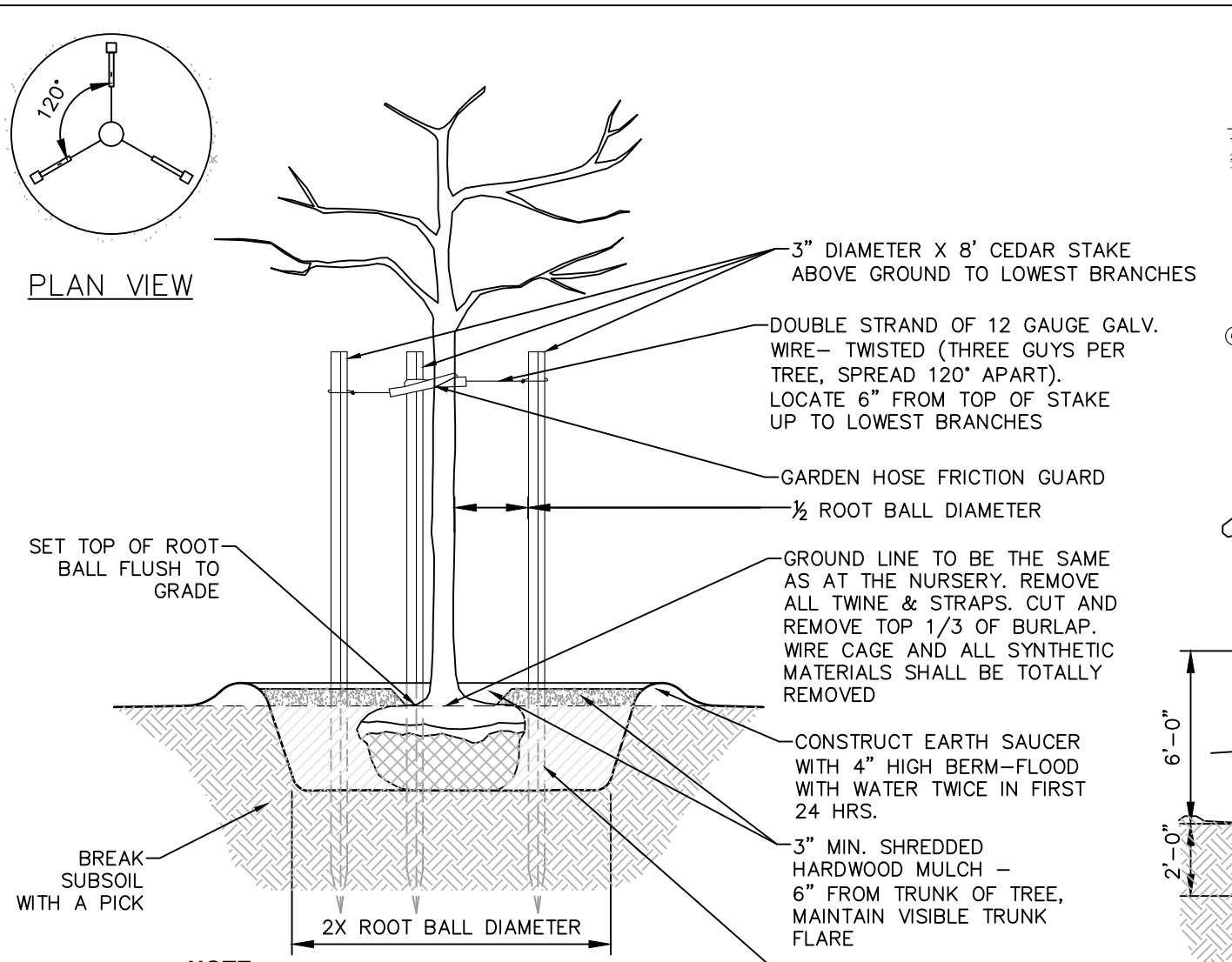
PB CHAIR: _____ DATE: _____

WITNESS: _____

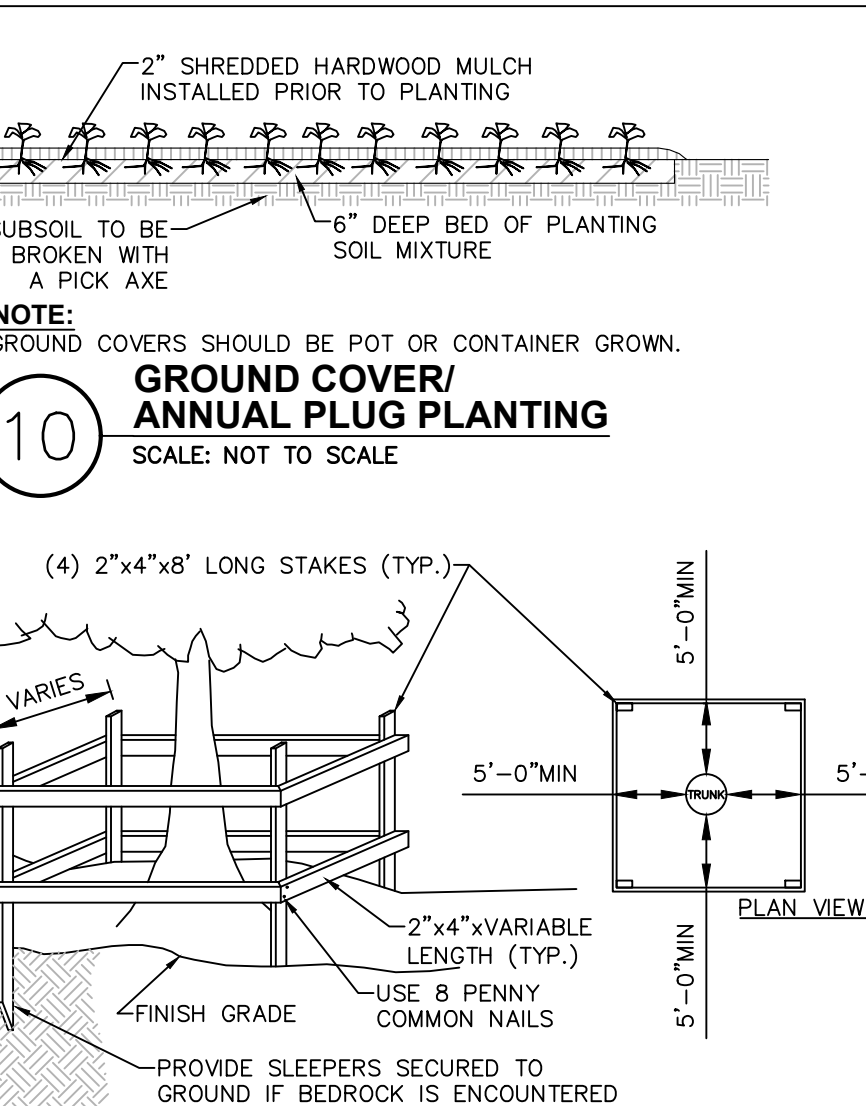


NOTES:

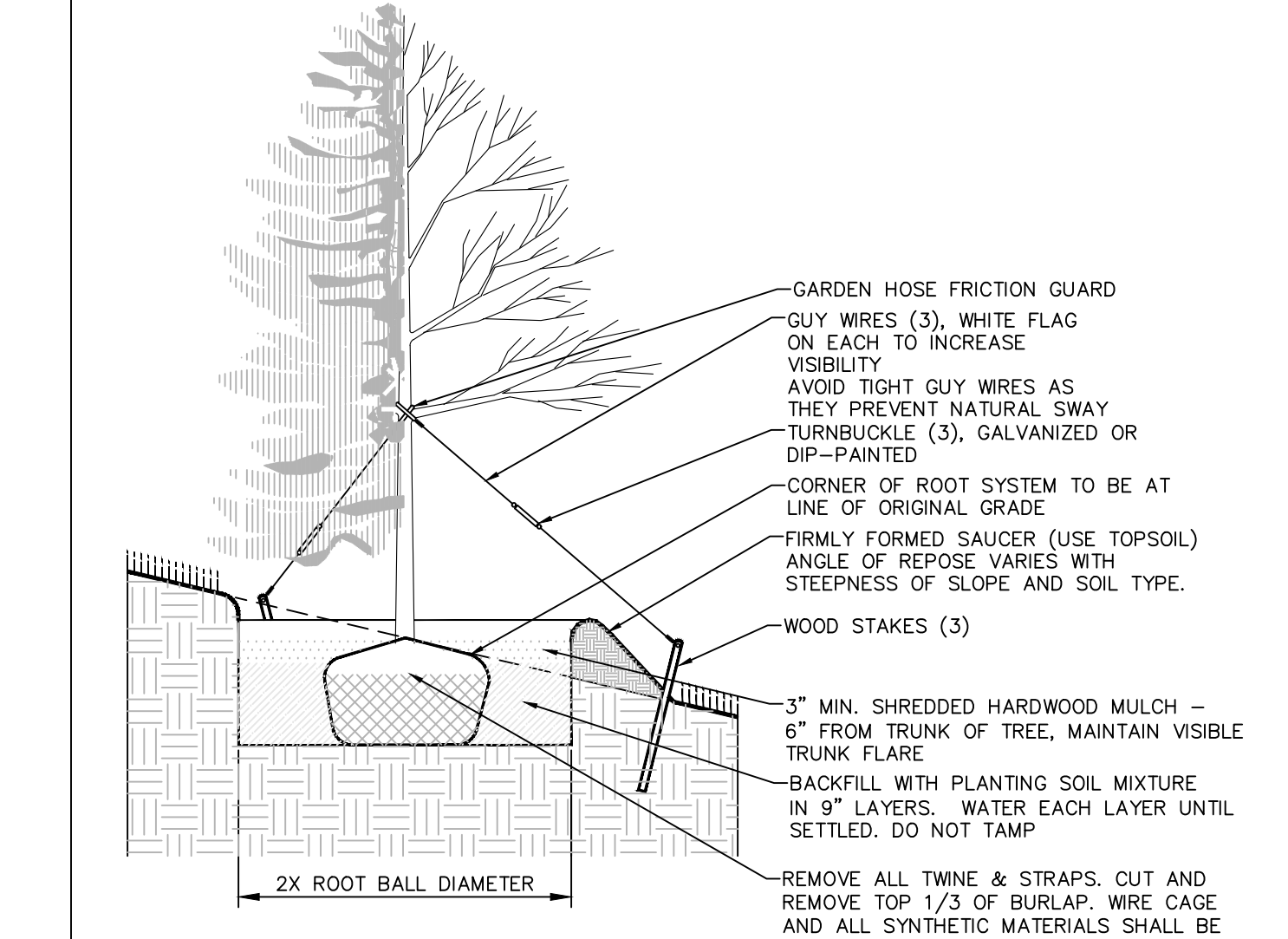
1. SPRAY WITH ANTIDESSICANT IN ACCORDANCE WITH MFG.'S RECOMMENDATIONS.
2. TREES LESS THAN 3" CALIPER SHALL BE STAKED.
3. TREES GREATER THAN 3" CALIPER AND UP SHALL BE GUYED AND ANCHORED.
4. STAKES SHALL BE REMOVED AT THE END OF THE FIRST GROWING SEASON AFTER PLANTING.



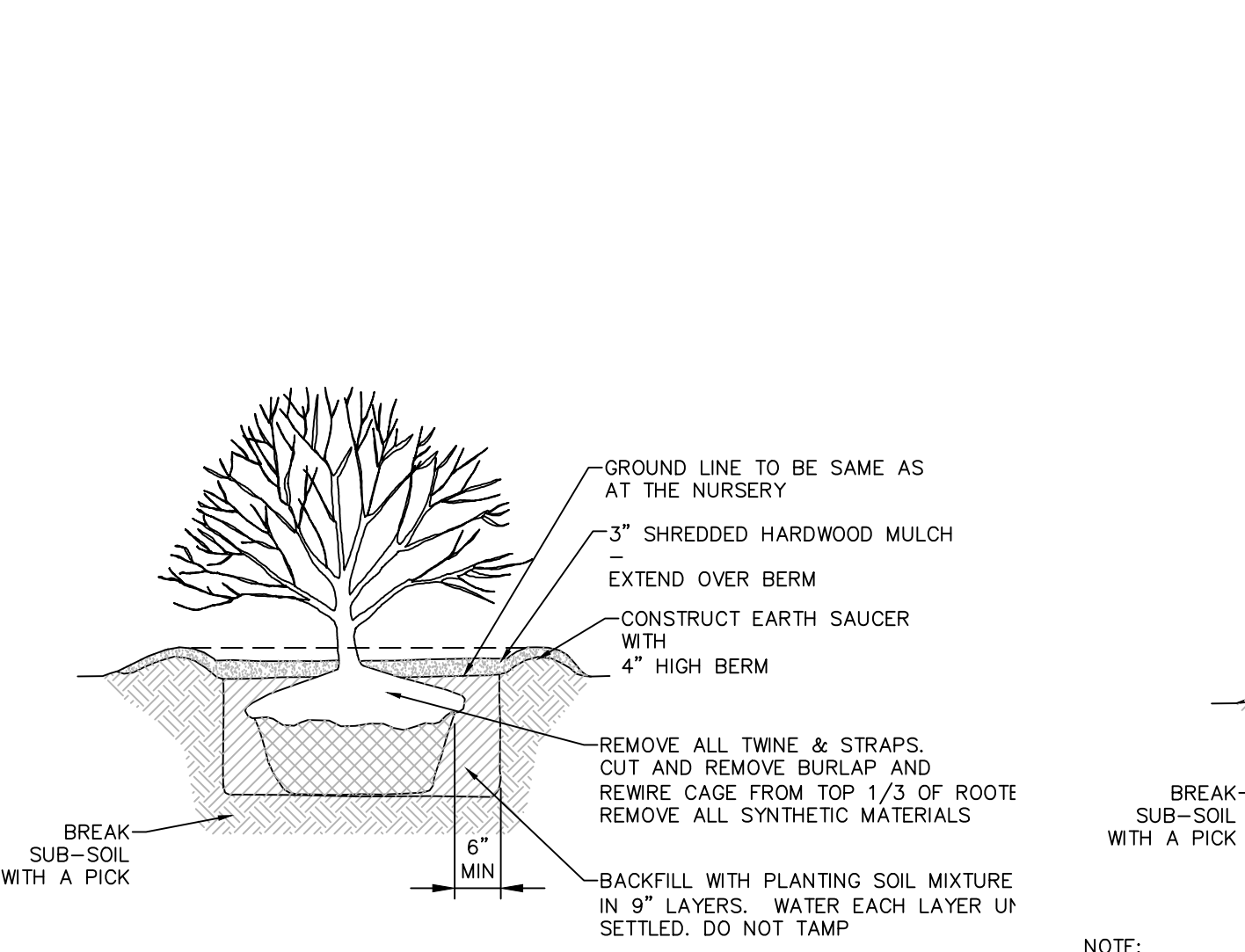
NOTE: STAKES SHALL BE REMOVED AT THE END OF THE FIRST GROWING SEASON AFTER PLANTING.



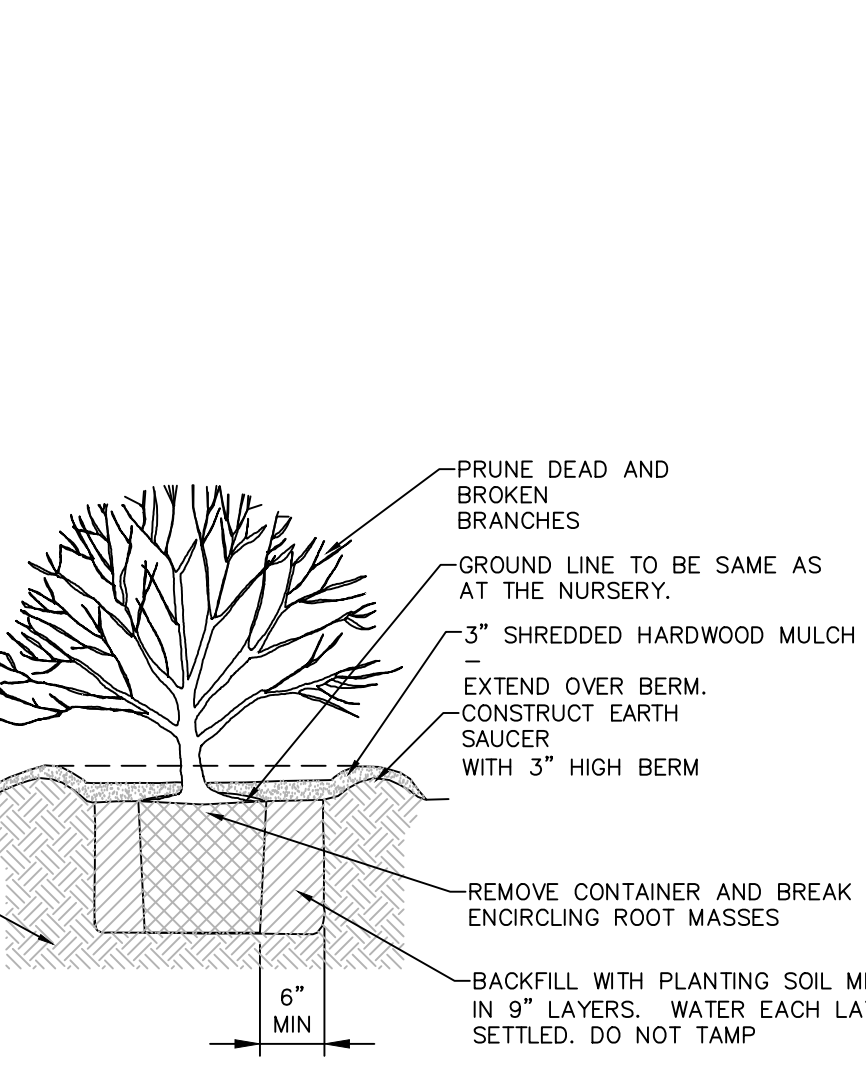
NOTE: SEE LANDSCAPING PLAN FOR ADDITIONAL TREE PROTECTION NOTES.



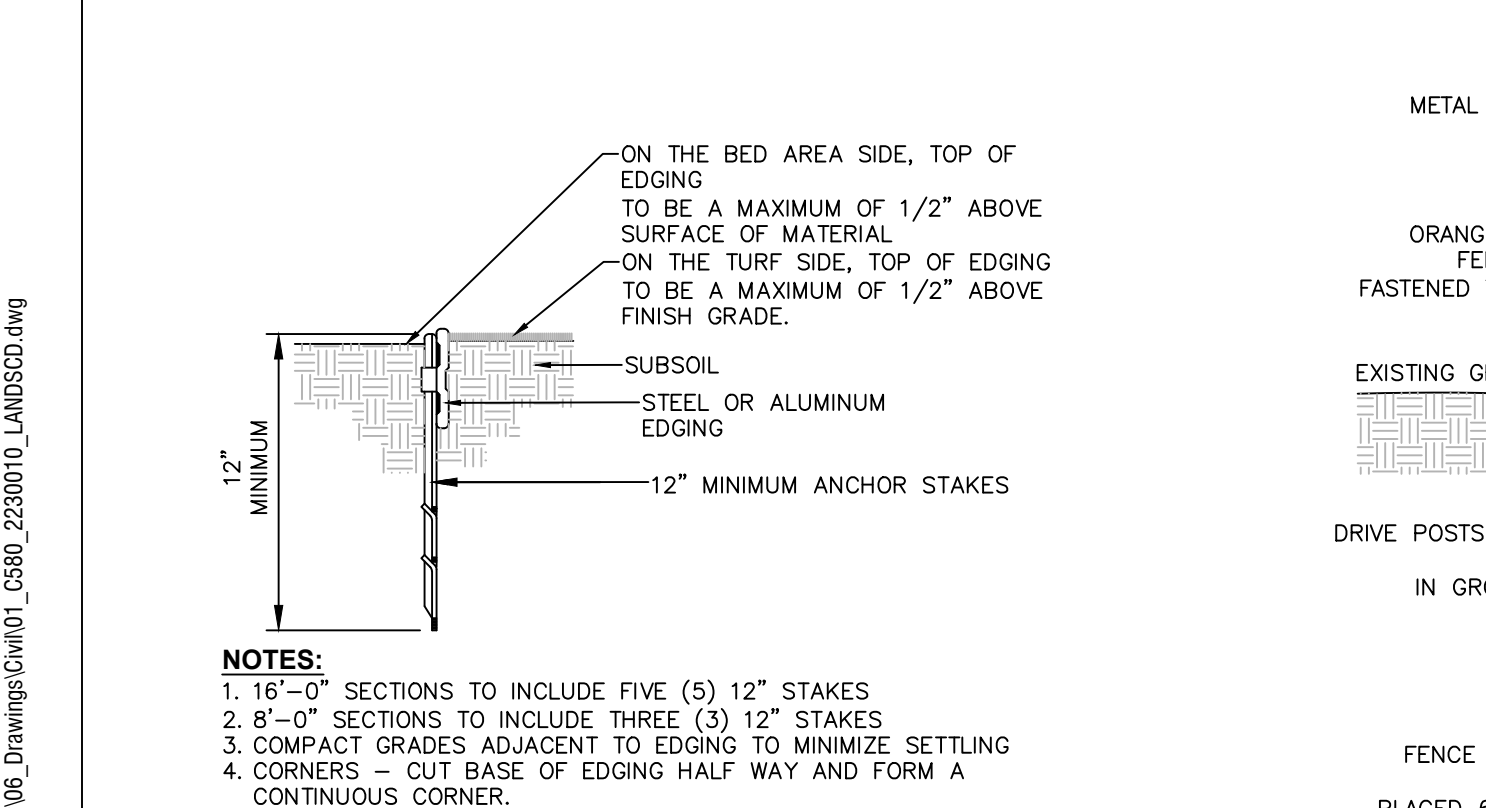
NOTE: DETAIL SHALL BE UTILIZED FOR DECIDUOUS AND CONIFEROUS TREE PLANTING ON SLOPE.



NOTE: SPRAY WITH ANTI DESSICANT IN ACCORDANCE WITH MFG.'S RECOMMENDATIONS IF FOLIAGE IS PRESENT.

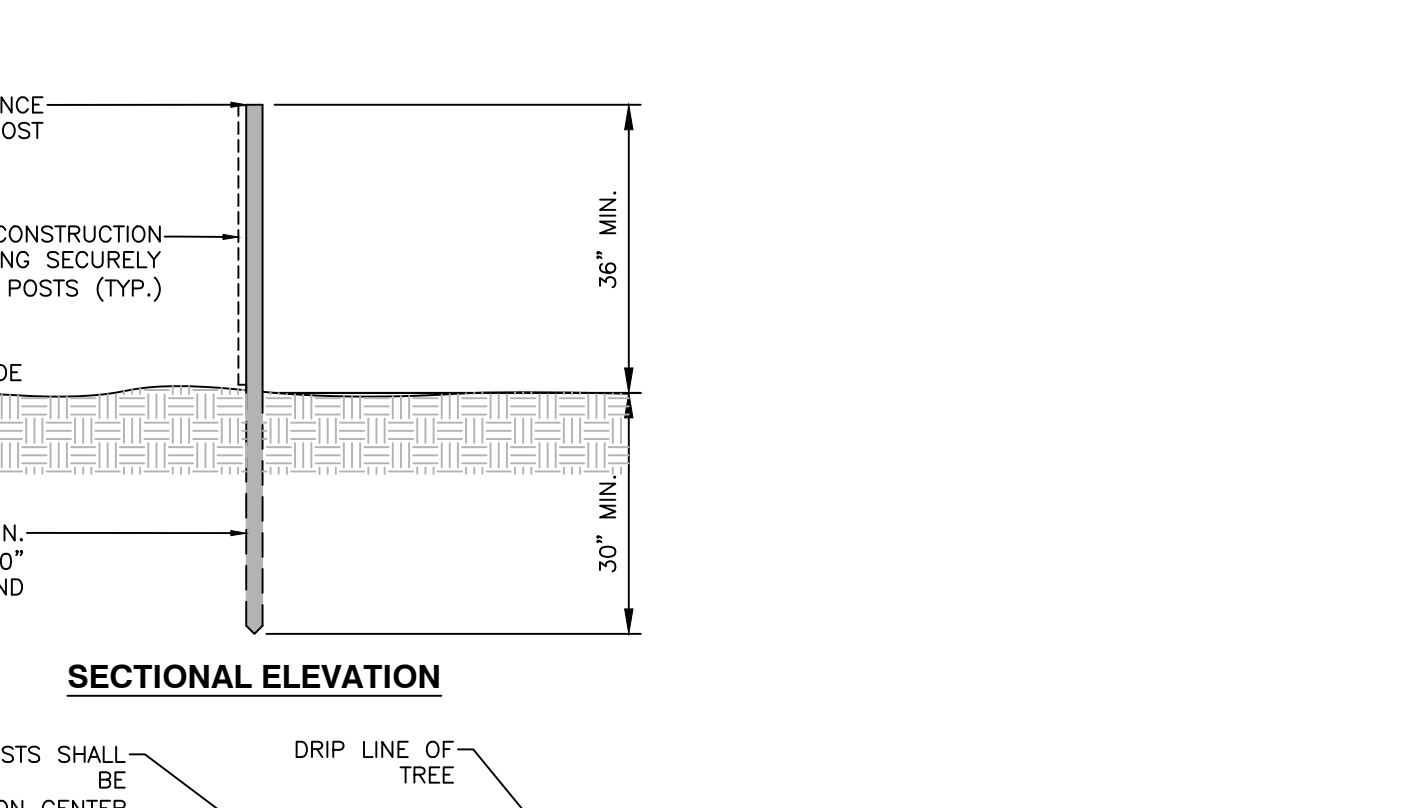


NOTE: SPRAY WITH ANTI DESSICANT IN ACCORDANCE WITH MFG.'S RECOMMENDATIONS IF FOLIAGE IS PRESENT.



NOTES:

1. 16"-0" SECTIONS TO INCLUDE FIVE (5) 12" STAKES
2. 8"-0" SECTIONS TO INCLUDE THREE (3) 12" STAKES
3. COMPACT GRADES ADJACENT TO EDGING TO MINIMIZE SETTLING
4. CORNERS - CUT BASE OF EDGING HALF WAY AND FORM A CONTINUOUS CORNER.



NOTE: SEE LANDSCAPING PLAN FOR ADDITIONAL TREE PROTECTION NOTES.

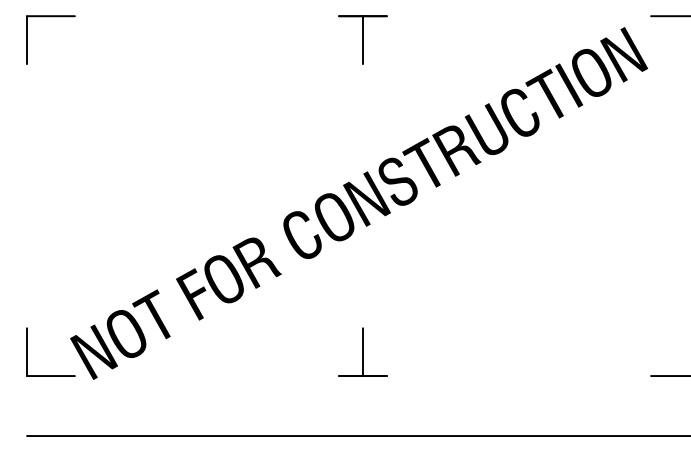
LANDSCAPING NOTES:

1. THE LANDSCAPE CONTRACTOR SHALL CAREFULLY COORDINATE CONSTRUCTION ACTIVITIES WITH THAT OF THE EARTHWORK CONTRACTOR AND OTHER SITE DEVELOPMENT.
2. THE CONTRACTOR SHALL VERIFY DRAWING DIMENSIONS WITH ACTUAL FIELD CONDITIONS AND INSPECT RELATED WORK AND ADJACENT SURFACES. THE CONTRACTOR SHALL VERIFY THE ACCURACY OF ALL FINISH GRADES WITHIN THE WORK AREA. THE CONTRACTOR SHALL REPORT TO THE LANDSCAPE ARCHITECT/ENGINEER AND OWNER ALL CONDITIONS WHICH PREVENT PROPER EXECUTION OF THIS WORK.
3. THE EXACT LOCATION OF ALL EXISTING UTILITIES, STRUCTURES AND UNDERGROUND UTILITIES, WHO MAY NOT BE INDICATED ON THE DRAWINGS, SHALL BE DETERMINED BY THE CONTRACTOR. THE CONTRACTOR SHALL PROTECT EXISTING STRUCTURES AND UTILITY SERVICES AND IS RESPONSIBLE FOR THEIR REPLACEMENT IF DAMAGED.
4. THE CONTRACTOR SHALL KEEP THE PREMISES FREE FROM RUBBISH AND ALL DEBRIS AT ALL TIMES AND SHALL ARRANGE MATERIAL STORAGE SO AS NOT TO INTERFERE WITH THE OPERATION OF THE PROJECT. ALL UNUSED MATERIALS, RUBBISH AND DEBRIS SHALL BE REMOVED FROM THE SITE.
5. NO TREES OR SHRUBS SHALL BE PLANTED ON EXISTING OR PROPOSED UTILITY LINES.
6. QUALITY ASSURANCE:
 - A. NOMENCLATURE: PLANT NAMES SHALL CONFORM TO THE LATEST EDITION OF "STANDARDIZED PLANT NAMES" AS ADOPTED BY THE AMERICAN JOINT COMMITTEE ON HORTICULTURAL NOMENCLATURE.
 - B. SIZE AND GRADING: PLANT SIZES AND GRADING SHALL CONFORM TO THE LATEST EDITION OF "AMERICAN STANDARD FOR NURSERY STOCK" AS SPONSORED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC (AAM), UNLESS OTHERWISE SPECIFIED.
 - C. NURSERY SOURCE: OBTAIN FRESHLY DUG, HEALTHY, VIGOROUS PLANTS NURSERY GROWN UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE IN THE LOCALITY OF THE PROJECT FOR A MINIMUM OF 2 YEARS. PLANTS SHALL HAVE BEEN LINED OUT IN ROWS, ANNUALLY CULTIVATED, SPRAYED, PRUNED AND FERTILIZED IN ACCORDANCE WITH GOOD HORTICULTURAL PRACTICE. ALL PLANTS SHALL HAVE BEEN TRANSPLANTED OR ROOT PRUNED AT LEAST ONCE IN THE PAST 3 YEARS. BALLED AND BURLAPPED PLANTS MUST COME FROM SOIL WHICH WILL HOLD A FIRM ROOT BALL. HELED IN PLANTS AND PLANTS FROM COLD STORAGE ARE NOT ACCEPTABLE.
 - D. SUBSTITUTIONS: DO NOT MAKE SUBSTITUTIONS OF TREES AND/OR SHRUB MATERIALS. IF REQUIRED LANDSCAPE MATERIAL IS NOT OBTAINABLE, SUBMIT PROOF OF NON-AVAILABILITY AND PROPOSAL FOR USE OF EQUIVALENT MATERIAL. WHEN AUTHORIZED, ADJUSTMENTS OF CONTRACT AMOUNT (IF ANY) WILL BE MADE BY CHANGE ORDER.
7. SEEDING & PLANTING SEASONS AND TIMING CONDITIONS:
 - A. UNLESS OTHERWISE DIRECTED IN WRITING, SEED LAWNS FROM MARCH 15 TO JUNE 15, AND FROM AUGUST 15 TO OCTOBER 15.
 - B. UNLESS OTHERWISE DIRECTED IN WRITING PLANT TREES AND SHRUBS FROM MARCH 15 TO JUNE 1, AND FROM AUGUST 15 TO OCTOBER 30.
 - C. AREAS UNDERGOING CLEARING OR GRADING AND ANY AREAS DISTURBED BY CONSTRUCTION ACTIVITIES WHERE LAWNS OR PLANTINGS ARE TO BE ESTABLISHED AND WORK IS COMPLETE, SHALL BE RESTORED WITH PERMANENT VEGETATIVE COVER AS SOON AS SITE AREAS ARE AVAILABLE AND WITHIN 14 DAYS AFTER WORK IS COMPLETE; WORK SHALL BE WITHIN THE SEASONAL LIMITATIONS FOR EACH KIND OF LANDSCAPE WORK REQUIRED. PROVIDE STABILIZATION WITH TEMPORARY VEGETATIVE COVER (TOPSOIL AND TEMPORARY COVER SEED MIX) WITHIN 14 DAYS AFTER WORK IS COMPLETE, FOR SEEDING OUTSIDE PERMITTED SEEDING PERIODS.
8. PRODUCTS:
 - A. IMPORTED TOPSOIL: PROVIDE TOPSOIL CONFORMING TO THE FOLLOWING:
 - i. LOAM TOPSOIL, WELL DRAINED HOMOGENEOUS TEXTURE AND OF UNIFORM GRADE, WITHOUT THE ADMIXTURE OF SUBSOIL MATERIAL AND FREE OF DENSE MATERIAL, HARDPAN, CLAY, STONES, SOD OR OTHER OBJECTIONABLE MATERIAL.
 - ii. CONTAINING NOT LESS THAN 5% NOR MORE THAN 20% ORGANIC MATTER IN THAT PORTION OF A SAMPLING PASSING A 1/4" SIEVE WHEN DETERMINED BY THE WET COMBUSTION METHOD ON A SAMPLE DRIED AT 105°C.
 - iii. CONTAINING A PH VALUE WITHIN THE RANGE OF 6.5 TO 7.5 ON THAT PORTION OF THE SAMPLE WHICH PASSES A 1/4" SIEVE.
 - iv. CONTAINING THE FOLLOWING WASHED GRADATIONS:

SIEVE DESIGNATION	% PASSING
1"	100
1/4"	97-100
NO 200	20-60
 - B. SEED MIXTURE: PROVIDE FRESH, CLEAN, NEW-CROP SEED MIXED IN THE PROPORTIONS SPECIFIED FOR SPECIES AND VARIETY, AND CONFORMING TO FEDERAL AND STATE STANDARDS. PROVIDE THE FOLLOWING MIXTURES:
 - i. LAWN SEED MIX

SUN AND PARTIAL SHADE:		SHADE:	
AMOUNT BY WEIGHT	SPECIES OR VARIETY	MINIMUM % PURITY	MINIMUM % GERMINATION
50%	KENTUCKY BLUE GRASS*	95%	80%
20%	PERENNIAL RYE	98%	90%
30%	CREeping RED FESCUE	97%	85%
100%		97%	85%
 - ii. MINIMUM 2 (EQUAL PROPORTIONS) VARIETIES AS LISTED IN CORNELL RECOMMENDATIONS FOR TURFGRASS.

SHADE:		SHADE:	
AMOUNT BY WEIGHT	SPECIES OR VARIETY	MINIMUM % PURITY	MINIMUM % GERMINATION
25%	KENTUCKY BLUE GRASS**	95%	80%
50%	PERENNIAL RYE	98%	90%
35%	CREeping RED FESCUE	97%	85%
20%	CHEWINGS RED FESCUE	97%	85%
100%		97%	85%
 - iii. **SHADE TOLERANT VARIETY

- 9. EXECUTION:
- A. LANDSCAPE WORK SHALL BE UNDERTAKEN AS SOON AS SITE AREAS ARE AVAILABLE.
- B. TOPSOIL SHALL BE SPREAD NO LESS THAN 4" OVER SUB-GRADE MATERIAL. SOIL AMENDMENTS SHALL BE THOROUGHLY MIXED INTO THE TOP 4" OF TOPSOIL, FOLLOWING THE SPECIFICATIONS STATED BELOW.
- C. PERFORM FINE GRADING TO FINISHED ELEVATION ONLY IMMEDIATELY PRIOR TO PLANTING. PLANTING AREAS SHALL BE GRADED TO A SMOOTH, EVEN SURFACE, FREE OF DEPRESSIONS OR RIDGES WITH A UNIFORM LOOSE, FINE TEXTURE.
- D. FERTILIZING:
 - i. THE SOIL SHALL BE TESTED FOR PH AND LIME ADDED AS NECESSARY. ALL AMENDMENTS SHALL BE CHECKED AND APPROVED BY LANDSCAPE ARCHITECT BEFORE AMENDMENTS ARE MADE.
 - ii. APPLY FERTILIZER AT RATE OF 4 LBS/1000 SF FOR LAWN AREAS.
- E. LAWN:
 - i. LAWN SEED MIX: SEED AT THE RATE OF 5 TO 6 LBS PER 1,000 SF.
 - ii. TEMPORARY COVER SEED MIX: SEED AT THE RATE OF 3 TO 4 LBS PER 1,000 SF.
 - iii. TEMPORARY COVER SEED MIX TO BE APPLIED ONLY FOR LATE FALL OR SUMMER SOIL STABILIZATION OUTSIDE ALLOWED SEEDING PERIODS.
- F. ALL SEEDED AREAS SHALL BE PROTECTED FROM EROSION BY ONE OF THE FOLLOWING METHODS:
 - i. A UNIFORM BLANKET OF STRAW APPLIED AT A RATE OF 2 TONS/ACRE MIN. TO BE APPLIED ONCE SEEDING IS COMPLETE.
 - ii. WOOD FIBER CELLULOSE APPLIED WITH SEED MIX BY A HYDROSEEDER AT A RATE OF 2,000 LBS/ACRE.
- G. ALL SEEDED SLOPES 3:1 OR GREATER SHALL BE PROTECTED FROM EROSION WITH JUTE MESH OR APPROVED EQUAL.
- H. ALL NEWLY PLANTED AREAS SHALL BE KEPT MOIST BY WATERING UNTIL GRASSES AND GROUND COVERS ARE WELL ESTABLISHED. THE LANDSCAPE CONTRACTOR MUST WATER PLANT MATERIAL WHEN NECESSARY FOR 90 DAYS AFTER INSTALLATION. THE SELECTED CONTRACTOR IS RESPONSIBLE FOR BRINGING A WATER TRUCK TO THE SITE FOR ALL 90 DAYS.
- I. LAWNS ARE TO BE WARRANTED UNTIL THEY BECOME ESTABLISHED, UNTIL FINAL ACCEPTANCE, AND NOT LESS THAN 90 DAYS AFTER COMPLETION OF ALL WORK. TREES, SHRUBS, GROUND COVERS, AND PERENNIALS SHALL BE WARRANTED AGAINST DEFECTS INCLUDING POOR GROWTH AND DEATH, EXCEPT WHEN RESULTING FROM OWNER NEGLECT, INCIDENTS THAT ARE BEYOND THE CONTROL OF THE LANDSCAPE INSTALLER AND DAMAGE OR ABUSE BY OTHERS, FOR AT LEAST TWO FULL YEARS AFTER PROJECT COMPLETION.


It is a violation of New York Education Law Article 145 Sec. 7209, for any person, unless acting under the direction of a licensed architect, professional engineer, land surveyor, landscape architect or geologist to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered, the altering architect, engineer, land surveyor, landscape architect or geologist shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

NO.	DATE:	DESCRIPTION:
2	3/15/23	Village Comments
1	2/8/23	Village Comments

PROJECT NUMBER: 2230010

DRAWN BY: TK

REVIEWED BY: CPL

ISSUED FOR: PLANNING BOARD APPROVAL

DATE: 12/7/22

DRAWING NUMBER:

LANDSCAPE DETAILS

VILLAGE OF WAPPINGERS FALLS

PLANNING BOARD

FINAL APPROVAL DATE: _____

PB CHAIR: _____ DATE: _____

WITNESS: _____

UNAUTHORIZED ALTERATION TO A MAP BEARING A LICENSED PROFESSIONAL LAND SURVEYOR'S SEAL IS A VIOLATION OF SECTION 7209, SUBDIVISION 2, OF THE NEW YORK STATE EDUCATION LAW. THE CERTIFICATION IS NOT AN EXPRESS OR IMPLIED WARRANTY OR GUARANTEE. IT IS PURELY A STATEMENT OF PROFESSIONAL OPINION BASED ON KNOWLEDGE, INFORMATION AND BELIEF, BASED ON EXISTING FIELD EVIDENCE AND DOCUMENTARY EVIDENCE AVAILABLE. CERTIFICATIONS ARE NOT TRANSFERABLE TO ADDITIONAL INSTITUTIONS OR SUBSEQUENT OWNERS. PLAN PREPARED PURSUANT TO SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW. SUBJECT TO THE FINDINGS OF AN UP TO DATE TITLE SEARCH, UNLESS THE SURVEYOR'S ORIGINAL SIGNATURE AND SEAL APPEARS RAISED ON THIS MAP, IT SHOULD NOT BE CONSIDERED A TRUE AND CORRECT COPY OF THE SURVEYOR'S ORIGINAL WORK AND OPINION.

LEGEND

- CONCRETE/STONE BOUND
- IRON PIPE
- IRON ROD
- CATCH BASIN
- SEWER MANHOLE
- GAS VALVE
- WATER VALVE
- FIRE HYDRANT
- SIGN (SINGLE POSTED)
- UTILITY POLE WITH RISER
- UTILITY POLE
- UTILITY POLE WITH LIGHT
- POST/ANGLE IRON
- DECIDUOUS TREE
- CONIFER TREE
- PROPERTY LINE
- EASEMENT
- SEWER LINE
- DRAIN LINE
- OVERHEAD WIRES
- TREE LINE
- MINOR CONTOURS
- MAJOR CONTOURS
- POB** POINT OF BEGINNING
- PL** PROPERTY LINE
- EOA** EDGE OF ASPHALT
- CNC.** CONCRETE
- EOG** EDGE OF GRAVEL
- CC** CONCRETE CURB
- CPP** CORRUGATED PLASTIC PIPE
- PVC** POLYVINYL CHLORIDE

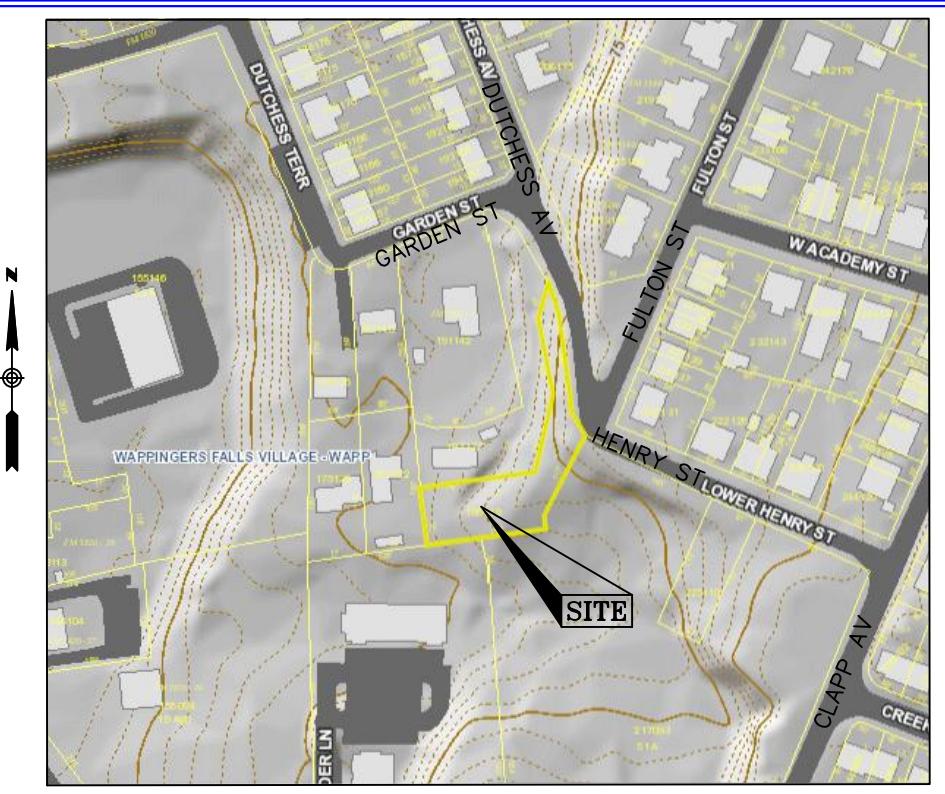
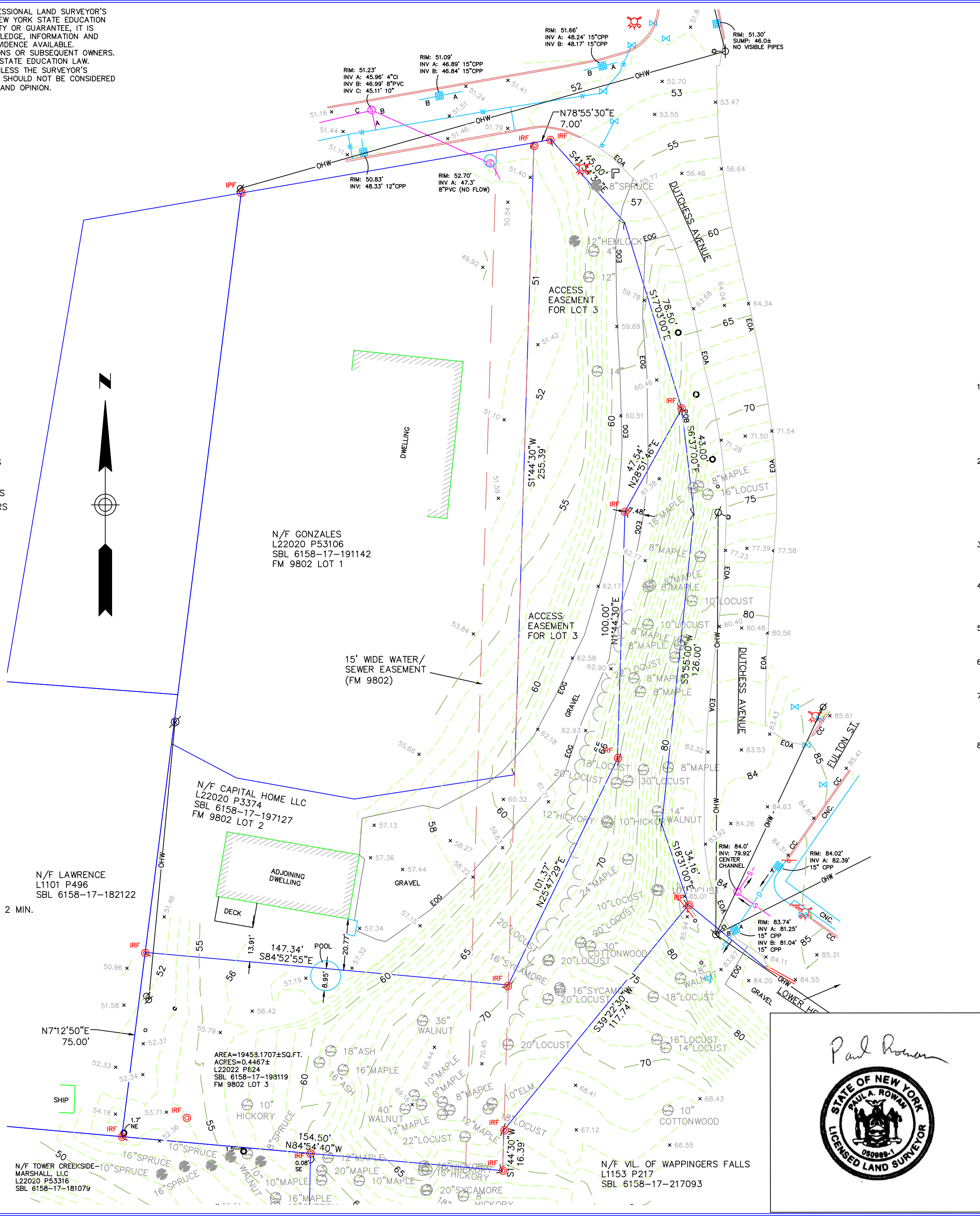
VILLAGE OF WAPPINGERS FALLS
ZONING DISTRICT V.R. (VILLAGE RESIDENTIAL)

LOT OCCUPATION—
LOT WIDTH: 25' MIN.
LOT COVERAGE: 60% MAX.
GREENSPACE: 15% MIN.

SETBACKS—PRINCIPAL BUILDING —
PRIMARY FRONTAGE: 10' MIN.
SECONDARY FRONTAGE: 10' MIN.
SIDE SETBACK: 0' MIN.
REAR SETBACK: 10' MIN.

SETBACKS—ACCESSORY BUILDING—
FRONT SETBACK PRINCIPAL: 30'
FRONT SETBACK SECONDARY: 3' MIN.
SIDE SETBACK: 3' MIN.

BUILDING CONFIGURATION —
PRINCIPAL BUILDING HEIGHT: 46'MAX., 3 STORIES MAX., 2 MIN.
ACCESSORY HEIGHT: 1 STORIES MAX.
SHED HEIGHT: 1 STORIES MAX.



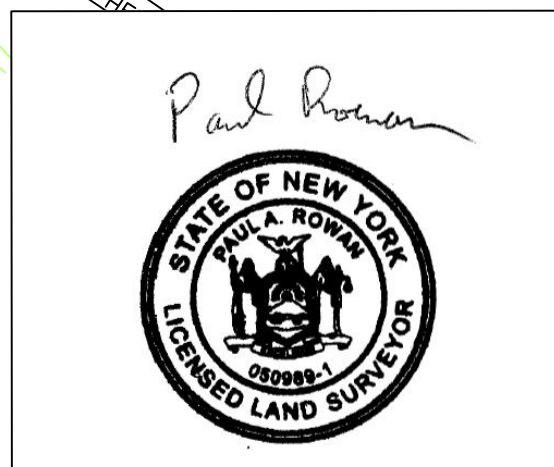
**LOCUS MAP
(N.T.S.)**

SURVEY NOTES

- THIS PLAN WAS PREPARED FROM AN ON THE GROUND FIELD SURVEY CONDUCTED BY RLS ON OCTOBER 22, 2022 AND ON THE FOLLOWING DATUM—
MERIDIAN: FM 9802
HORIZONTAL: ASSUMED
VERTICAL: SCALED AS PER DUTCHESS GIS
- REFERENCES
STREET NAMES, R.O.W. WIDTHS, PROPERTY IDENTIFICATION NUMBERS, OWNER NAMES, EASEMENTS, AND ANY ADDITIONAL INFORMATION SHOWN HEREON ARE REFERENCED FROM THE FOLLOWING MAPS AND DOCUMENTS—
A. MAP 9802 ENTITLED, "SUBD. PLAT PREPARED FOR FRANK T. & MARIA T. SCIANNA", PREPARED BY JAMES K. DEVINE AND FILED IN THE DUTCHESS CO. CLERKS OFFICE ON NOVEMBER 8, 1993.
- THE SURVEYED PROPERTY IS SUBJECT BUT NOT LIMITED TO THE INFORMATION SHOWN HEREON. ALL INFORMATION THAT MAY AFFECT THE QUALITY OF TITLE TO BOTH THE SUBJECT AND ADJOINING PARCELS SHOULD BE VERIFIED BY AN ACCURATE AND CURRENT TITLE REPORT.
- THE LOCATION OF THE UTILITIES AS SHOWN HEREON HAVE BEEN COMPILED FROM VISIBLE STRUCTURES AND INFORMATION OBTAINED FROM VARIOUS SOURCES. THE ACTUAL LOCATION OF ALL UTILITIES AND UNDERGROUND STRUCTURES SHALL BE CONSIDERED APPROXIMATE AND SHALL BE VERIFIED BY THE OWNER PRIOR TO ANY CONSTRUCTION.
- WETLANDS, ENVIRONMENTAL AND/OR HAZARDOUS MATERIALS LOCATION, IF ANY, NOT COVERED UNDER THIS CONTRACT. [OR] WERE LOCATED AS MARKED AT THE TIME OF THE SURVEY.
- UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY MAP BEARING A LICENSED LAND SURVEYOR'S SEAL IS A VIOLATION OF SECTION 7209, SUBDIVISION 2, OF THE NEW YORK STATE EDUCATION LAW.
- CERTIFICATIONS INDICATED HEREON SIGNIFY THAT THIS SURVEY WAS PREPARED IN ACCORDANCE WITH THE EXISTING CODE OF PRACTICE FOR LAND SURVEYS ADOPTED BY THE NEW YORK STATE ASSOCIATION OF PROFESSIONAL LAND SURVEYORS. THIS PLAN NOT VALID UNLESS ORIGINAL STAMP AND SIGNATURE OF A LICENSED SURVEYOR ARE LOCATED HEREON.
- OFFSETS OR DIMENSIONS FROM THE PROPERTY LINES TO STRUCTURES ARE SURVEY REFERENCES ONLY, AND NOT INTENDED TO MONUMENT THE PROPERTY LINES, NOR ARE THEY TO BE USED IN OR GUIDE CONSTRUCTION OF ANY TYPE.

TOPOGRAPHY SURVEY
DUTCHESS AVENUE TAX ID 6158-17-198119
VIL. OF WAPPINGERS FALLS, NEW YORK
PREPARED FOR
CLIENT

ROWAN LAND SURVEYING, PLLC
330 OLD ALBANY POST ROAD
GARRISON, NY 10524
914 815 3986
rowanlandsurveying@outlook.com



Drawn By	PR	Date	OCTOBER 24, 2022	Job No.	022-075
Surveyed By	PR	Scale	1" = 30'	Sheet No.	1 OF 1