

## TOWN OF YORKTOWN PLANNING BOARD

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

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

October 18, 2021  
7:00 PM

1. **Correspondence**
2. **Meeting Minutes – September 27, 2021**

### REGULAR SESSION

3. **Bird Bus Sales & Service  
Public Hearing**

*Location:* 35.08-1-21 & 22; 3805 Crompond Road

*Contact:* JMC Site Development Consultants

*Description:* Proposed Bird Bus sales & service facility at former car dealership site on 2.71 acres in the C-4 zone.

4. **Granite Knolls Park Solar Project  
Public Informational Hearing**

*Location:* 26.09-1-22; 2975 Stony Street

*Contact:* Bergmann PC

*Description:* Proposed 1.3 MW-AC community solar project including ground mounted solar panels, solar carport system, and a battery storage system at Granite Knolls Park.

5. **Roberta Front Street  
Request for 2nd One-year Time Extension**

*Location:* 48.07-2-11,13,15,17; Front Street

*Contact:* Site Design Consultants

*Description:* An approved site plan for a 2,108 SF one-story building and a 5,370 SF two-story building on 0.80 acres in the transitional zone.

6. **Mongero Properties, LLC  
Request for Reapproval**

*Location:* 37.14-1-44; Saw Mill River Road

*Contact:* Site Design Consultants

*Description:* Request for a second one-year time extension of a site plan for a 3,848 SF bank on 2.2 acres in the C-1 zone approved by Resolution #09-28 dated November 9, 2009 and last reapproved by Resolution #18-17 dated October 15, 2018.

7. **Colangelo Major Subdivision  
Request for 2nd 90 Day Time Extension**

*Location:* 35.16-1-4; 1805 Jacob Road

*Contact:* Hocherman Tortorella & Wekstein, LLP

*Description:* Approved 6-lot subdivision in the R1-160 zone by Resolution #21-01 dated February 8, 2021.

**WORK SESSION**

**8. Home & Hearth**

**Discussion Site Plan**

*Location:* 15.12-1-2; 1750 East Main Street

*Contact:* Site Design Consultants

*Description:* Proposed demolition of two existing buildings to construct a new 5,500 SF showroom/warehouse and 4,500 SF storage building on 1.99 acres in the C-4 zone.

**9. Grishaj Subdivision**

**Discussion Subdivision**

*Location:* 16.17-2-77; 3319 Stony Street

*Contact:* Site Design Consultants

*Description:* Proposed 10 lot subdivision on 8 acres in the R1-20 zone. Plan proposes to connect to High Point Drive and South Shelley Street.

**10. 3717 Crompond Road LLC**

**Pre-Preliminary Application**

*Location:* 35.08-1-13; 3717 Crompond Road

*Contact:* Site Design Consultants

*Description:* Proposed demolition of the existing building and construction of a new 20,370 SF two-story warehouse/office building with associated parking and site improvements.

**11. Town Board Referral**

**Almeida Wetland & Stormwater Permit**

*Location:* 37.19-2-23; 1875 Brookdale Street

*Contact:* Site Design Consultants

*Description:* Proposed wetland mitigation and stormwater management plan for expansion of existing usable yard area.

**12. Town Board Referral**

**Baptist Church Road Bridge Replacement**

*Location:* Baptist Church Road

*Contact:* Jeffrey Busse, NYC DEP

*Description:* Request for a Wetland/Stormwater/Tree Permit to replace the Baptist Church Road Bridge over Hunter Brook adjacent to the New Croton Reservoir.

**Last Revised – October 15, 2021**


# Correspondence

# **Draft Minutes**

**Bird Bus**  
**Sales & Service**



Certificate of Mailing — Firm

<p>Name and Address of Sender</p> <p><b>Paul Dumont</b>  <b>JMC, PLLC</b>  <b>120 Bedford Road</b>  <b>Armonk, NY 10504</b></p> <p>RECEIVED          PLANNING DEPARTMENT          OCT 10 2021          TOWN OF YORKTOWN</p>	<p>TOTAL NO. of Pieces Listed by Sender</p> <p style="text-align: center; font-size: 2em;">9</p>	<p>TOTAL NO. of Pieces Received at Post Office™</p>	<p>Affix Stamp Here  <i>Postmark with Date of Receipt.</i></p> <div style="text-align: center;">               0000         </div> <div style="text-align: right;"> <p>U.S. POSTAGE PAID              ARMONK, NY              10504              OCT 08 21              AMOUNT  <span style="font-size: 1.5em; font-weight: bold;">\$4.23</span>              R2304M116371-40</p> </div>
<p>Postmaster, per (name of receiving employee)</p>			

USPS® Tracking Number Firm-specific Identifier	Address (Name, Street, City, State, and ZIP Code™)	Postage	Fee	Special Handling	Parcel Airlift
1.	<b>TACONIC 202 PROPERTIES LLC</b> <b>81 SPRAIN VALLEY ROAD</b> <b>SCARSDALE, NY 10583</b>				
2.	<b>MPH2 LLC</b> <b>2527 GARDEN LANE</b> <b>CORTLANDT MANOR, NY 10567</b>				
3.	<b>BF CURRY REALTY LLC</b> <b>727 CENTRAL AVENUE</b> <b>SCARSDALE NY 10583</b>				
4.	<b>CROMPOND REALTY LLC</b> <b>3805 CROMPOND ROAD</b> <b>CORTLANDT MANOR, NY 10567</b>				
5.	<b>SWEET HOLLOW WESTCHESTER</b> <b>CROMPOND ROAD</b> <b>CORTLANDT MANOR, NY 10567</b>				
6.	<b>SWEET HOLLOW WESTCHESTER LLC</b> <b>125 MINEOLA AVENUE, #200</b> <b>ROSYLYN, NY 11577</b>				



Certificate of Mailing — Firm

Name and Address of Sender  <b>James A. Ryan, RLA JMC, PLLC 120 Bedford Road Armonk, NY 10504</b>	TOTAL NO. of Pieces Listed by Sender  <p style="text-align: center;"><b>9</b></p>	TOTAL NO. of Pieces Received at Post Office™	Affix Stamp Here <i>Postmark with Date of Receipt.</i>
	Postmaster, per (name of receiving employee)		

USPS® Tracking Number Firm-specific Identifier	Address (Name, Street, City, State, and ZIP Code™)	Postage	Fee	Special Handling	Parcel Airlift
1.	<b>COUNTY OF WESTCHESTER</b> <b>148 MARTINE AVENUE</b> <b>WHITE PLAINS, NY 10601</b>				
2.	<b>HOFFMAN CONSTRUCTION &amp; RE LLC</b> <b>3848 OLD CROMPOND ROAD</b> <b>CORTLANDT MANOR, NY 10567</b>				
3.	<b>KADAJI, ALA KHALIL</b> <b>3800 OLD CROMPOND ROAD</b> <b>CORTLANDT MANOR, NY 10567</b>				
4.					
5.					
6.					

**Sign Notification Certification**

**Per Section §205-7 of the Town of Yorktown Town Code, every applicant that submits an application to an approval authority empowered to approve or deny said application must post one or more notification signs on the property which is the subject of said application.**

RECEIVED  
PLANNING DEPARTMENT  
OCT 10 2021  
TOWN OF YORKTOWN

Section 38.05 Block 1 Lot 21,22

Project Name: Bird Bus Sales & Service

Address: 3571 Mohegan Avenue

Applicant's Name: Bird Bus Sales & Service

Address: 1 Warehouse Lane, Elmsford, NY 10523

Phone: (516) 233-6199

No. Signs Posted: 2

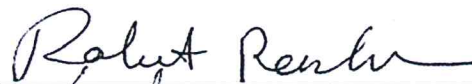
Sign #1 Location: Route 202 Frontage

Sign #2 Location: Garden Lane Frontage

Sign #3 Location: \_\_\_\_\_

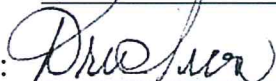
- Please Attach and Label Photos on Additional Sheets -

Applicant's Signature:



Robert Reichenbach, Bird Bus

Land Owner's Signature:



Drew Picon, Crompond Realty, LLC





Garden Lane Frontage



Route 202 Frontage

**TOWN OF YORKTOWN  
PLANNING BOARD  
1974 COMMERCE STREET  
YORKTOWN HEIGHTS, NY 10598  
PHONE: (914) 962-5722**

**LEAD AGENCY SELECTION FORM**

This **LEAD AGENCY SELECTION FORM** is being circulated for the purpose of determining the Lead Agency under SEQRA for the project:

**Applicant:** Bird Bus Sales & Service  
**Map titled:** Site Plan prepared for Bird Bus Sales & Service  
**Prepared by:** JMC Planning Engineering Landscape Architecture & Land Surveying, PLLC  
**Dated:** Last revised September 10, 2021

It is proposed to renovate and reoccupy the property with a school bus dealership. The site is located at 3805 Crompond Road, Cortlandt Manor, on two parcels totaling 2.74 acres in the C-4 zone.

**Location:** 3805 Crompond Road, Cortlandt Manor, NY  
Section 35.08, Block 1, Lots 21 & 22

**Town Agency Initiating Lead Agency Process:** **Town of Yorktown Planning Board**

Contact Person: Robyn Steinberg, Town Planner  
Mailing Address: Town of Yorktown Planning Department  
1974 Commerce Street, Yorktown Heights, NY 10598

Telephone: (914) 962-6565  
Email: rsteinberg@yorktownny.org

**Date Mailed:** October 5, 2021

**Response Required:** November 5, 2021

**Type of Action:** Unlisted

**Involved Agencies:**

- ✓ Town of Yorktown Planning Board
- ✓ NYC Department of Environmental Protection
- ✓ NYS Department of Transportation

**Interested Agencies:**

- ✓ Town of Cortlandt
- ✓ Westchester County Planning

This **LEAD AGENCY SELECTION FORM** is being circulated for the purpose of determining the Lead Agency under SEQRA for the following project:

**Applicant:** Bird Bus Sales & Service  
**Map titled:** Site Plan prepared for Bird Bus Sales & Service  
**Prepared by:** JMC Planning Engineering Landscape Architecture & Land Surveying, PLLC  
**Dated:** Last revised September 10, 2021

**Project Location:** 3805 Crompond Road, Cortlandt Manor, NY  
Section 35.08, Block 1, Lots 21 & 22

Contact Person: Robyn Steinberg, Town Planner, Town of Yorktown  
Response Required: November 5, 2021

**Reply Form** (to be complete by Involved Agency)

The \_\_\_\_\_ has examined this form and its accompanying documentation and (check A or B).

- A. \_\_\_\_\_ Concludes that the proposed action is not likely to have a significant effect on the environment.
- B. \_\_\_\_\_ Concludes that the proposed action is likely to have a significant effect on the environment and (check appropriate choices 1,2,3,4)
1. \_\_\_\_\_ desires to be the Lead Agency.
  2. \_\_\_\_\_ recommends \_\_\_\_\_ be Lead Agency.  
(list recommended agency)
  3. \_\_\_\_\_ comments are attached.
  4. \_\_\_\_\_ has no comment.

**Reviewed by:**

Date	Name	Title
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**PLEASE RETURN TO THE AGENCY INITIATING THIS PROCESS AS LISTED ON PAGE 1 BY THE DATE INDICATED. If your Agency does not submit a written objection to the Planning Board acting as Lead Agency, within thirty (30) days of the mailing of this notification to the contact person listed on page 1, then the Town of Yorktown, Planning Board will assume Lead Agency for this project.**

George Latimer  
County Executive

October 12, 2021

Robyn A. Steinberg, Town Planner  
Town of Yorktown Planning Department  
1974 Commerce Street  
Yorktown Heights, NY 10598

**County Planning Board Referral File YTN 21-011 – Bird Bus Sales & Service  
3805 Crompond Road  
Site Plan and Special Permit Approvals**

Dear Ms. Steinberg:

The Westchester County Planning Board has received a site plan (dated September 10, 2021) and related materials for a site plan and special permit application to renovate and convert an existing car dealership into a school bus dealership. The subject site is 2.74 acres and located at 3805 Crompond Road (US Route 202/NYS Route 35) (SBL 35.08-1-21 & 22) in the C-4 district. While the existing building footprint will not be enlarged, there will be an outdoor storage area for school buses in the rear of the site with landscaping provided for screening

We have no objection to the Yorktown Planning Board assuming Lead Agency status for this review.

We have reviewed this matter under the provisions of Section 239 L, M and N of the General Municipal Law and Section 277.61 of the County Administrative Code and we offer the following comments:

**1. Sidewalks.**

Because the subject site is located near a cluster of other businesses, we encourage the Town to consider if it would be beneficial for the site frontage to include a sidewalk. While this sidewalk would only exist in front of the subject site, it could be expanded upon as adjacent and nearby sites are redeveloped in future years, eventually creating a more complete local sidewalk system. We point out that anyone currently walking between the site and any adjacent business would need to walk in the road shoulder for Crompond Road, which is not suitable for two-way pedestrian traffic. We also point out that we reviewed site plans for a nearby site in 2020 at 3775 Crompond Road (YTN 20-002) and made this same recommendation. Assuming that a sidewalk can be added to each site frontage, the Town would already be making progress towards creating this local sidewalk system.

**2. Croton Watershed protection.**

The site is located in the Croton Watershed. Components of the site development may be subject to compliance with the New York City Department of Environmental Protection (NYC DEP) *Rules and Regulations for the Protection from Contamination, Degradation and Pollution of the New York City Water Supply and its Sources*, including the preparation of a Stormwater Pollution Prevention Plan.

Adequate erosion and sediment control and stormwater runoff water quality protection, both during and after construction, are of critical importance.

**3. NYS DOT review.**

Crompond Road (US Route 202/NYS Route 35) is a State road. The Town should forward a copy of the application to NYS DOT to identify any required permits for the proposed project and to evaluate potential traffic impacts to Crompond Road.

**4. Recycling.**

We recommend the Town request the applicant verify that sufficient space will be available to store recyclables under the County recycling program which includes plastics numbered 1 through 7.

**5. Green building technology and bicycle parking.**

We encourage the applicant to include as much green, or sustainable building technology as possible into the proposed development. We also recommend that bicycle parking be provided for employees.


**6. Anti-idling regulations.**

Westchester County prohibits bus engine idling longer than three minutes when temperatures are above 40 degrees Fahrenheit while parking, standing, or stopping. We encourage the applicant to recognize the County's anti-idling regulations in the plan and include signage to inform drivers within the parking lot.

Please inform us of the Town's decision so that we can make it a part of the record.

Thank you for calling this matter to our attention.

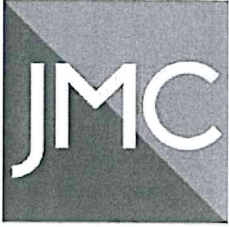
Respectfully,  
WESTCHESTER COUNTY PLANNING BOARD

By: 

Norma V. Drummond  
Commissioner

NVD/LH

cc: Lance MacMillan, Regional Director, NYS Department of Transportation, Region 8  
Anne Darelus, NYS Department of Transportation, Region 8  
Christopher Lee, NYS Department of Transportation, Region 8  
Cynthia Garcia, Bureau of Water Supply, SEQR Coordination Section, NYC DEP



Site Planning	Environmental Studies
Civil Engineering	Entitlements
Landscape Architecture	Construction Services
Land Surveying	3D Visualization
Transportation Engineering	Laser Scanning

October 15, 2021

Town of Yorktown (ABACA)  
 Mr. Christopher Taormina, RA  
 1974 Commerce Street, Room 222  
 Yorktown, NY 10598

RE: JMC Project 21005  
 Bird Bus Sales & Service  
 3805 Crompond Road  
 Town of Yorktown, NY

Dear Mr. Taormina:

We are in receipt of a review memorandum prepared by the Town of Yorktown Advisory Board On Architecture & Community Appearance (ABACA), dated October 8, 2021 for the above noted project.

Enclosed please find a copy of the below listed materials for your review:

1. Joseph R. Crocco Architects Drawings:

<u>Dwg. No.</u>	<u>Title</u>	<u>Rev. #/Date</u>
A1.1	"Proposed Floor Plans"	10/14/2021
A2.1	"Elevations"	10/14/2021

2. JMC Drawings:

<u>Dwg. No.</u>	<u>Title</u>	<u>Rev. #/Date</u>
C-100	"Site Layout & Landscaping Plan"	1 10/15/2021

3. Photometric Lighting Analysis and Cut Sheets, prepared by CREE Lighting.

For your convenience we have identified the comments noted in the memorandum below, which are followed by our responses:

**Architecture:**

Comment No. 1

*The Board suggests for the applicant to add windows to the service building, one per bay on each side or clerestory units, for aesthetic purposes since the proposed facade is large and bare. This will also allow for natural light into the work area.*

Response No. 1

The floor plan and elevations have been revised to add windows along this elevation at each bay.

Comment No. 2

*The Board likes the stucco and detailing proposed for the front section of the building and has no objection to the window changes and relocations proposed.*

Response No. 2

This comment is noted.

Comment No. 3

*The Board requests for the applicant to submit colored renderings with a detailed list of building materials and samples for review. The Board thought that the building could be monochromatic as suggested since the various components will have different textures. The Board looks forward to seeing the rendering and materials when provided.*

Response No. 3

Color renderings and a full materials board will be prepared and presented at the next meeting.

**Landscape Plan:**

Comment No. 1

*The Board suggests for the applicant to screen the right side of the building with arborvitae similar to the front.*

Response No. 1

JMC Drawing C-100, "Site Layout and Landscaping Plan", has been revised to propose plantings along the property's Garden Lane frontage adjacent to the garage building.

Comment No. 2

*The Board requests for the applicant to move the fence at the parking to be behind the arborvitae.*



Response No. 2

JMC Drawing C-100, "Site Layout and Landscaping Plan", has been updated accordingly.

Comment No. 3

*The Board requested for the applicant to add plantings to the streetscape. These plantings would be within the NYSDOT right-of-way. The applicant must confirm that the proposed plantings meet the NYSDOT requirements.*

Response No. 3

The applicant is not proposing any landscaping within the NYSDOT right-of-way at this time as these plantings would require Use and Occupancy permitting from the DOT as well as Highway Work Permit review. In addition, there is a Westchester County Bee-Line bus stop along the site's frontage which further restricts the placement of landscaping in this area.

Comment No. 4

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

Response No. 4

Please see JMC Drawing C-100, "Site Layout and Landscaping Plan", which details the site landscaping.

**Lighting Plan:**

Comment No. 1

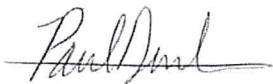
*The Board requests for the applicant to submit a site lighting plan with lighting levels and lighting specifications when developed.*

Response No. 1

Enclosed please find a photometric analysis and cut sheets prepared by CREE Lighting.

Sincerely,

**JMC Planning Engineering Landscape Architecture & Land Surveying, PLLC**



Paul J. Dumont, PE  
Design Manager

# TOWN OF YORKTOWN

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

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

**To:** Planning Department  
**From:** ABACA  
**Date:** October 8, 2021  
**Subject:** Bird Bus Sales & Service fka Kia Dealership  
**SBL: 35.08-1-21 & 22; 3805 Crompond Road**

RECEIVED  
PLANNING DEPARTMENT

OCT 8 2021

TOWN OF YORKTOWN

*Drawings Reviewed:*

Title:	Drawing No.:	Date:	Produced By:
Elevations	Sheets A1.1, A2.1	04/19/2021	Joseph R. Crocco Architects
Preliminary Layout & Landscape Plan	Sheet C-100	09/10/2021	JMC Site Development Consultants

The Advisory Board on Architecture and Community Appearance reviewed the above referenced subject at their Board meeting held on Tuesday, October 6, 2021. Paul Dumont of JMC and Christopher Crocco, Architect, were present.

The applicant explained that the proposal is to re-occupy the former Kia dealership located at 3805 Crompond Road for a Bird Bus Sales and Service facility which is a distributor of school buses. The façade and interior of the front building is proposed to be modified. Additionally, the roof of the rear service building will be raised to accommodate the height of the school buses.

The ABACA has the following comments:

**Architecture:**

- The Board suggests for the applicant to add windows to the service building, one per bay on each side or clerestory units, for aesthetic purposes since the proposed facade is large and bare. This will also allow for natural light into the work area.
- The Board likes the stucco and detailing proposed for the front section of the building and has no objection to the window changes and relocations proposed.
- The Board requests for the applicant to submit colored renderings with a detailed list of building materials and samples for review. The Board thought that the building could be monochromatic as suggested since the various components will have different textures. The Board looks forward to seeing the rendering and materials when provided.

**Landscape Plan:**

- The Board suggests for the applicant to screen the right side of the building with arborvitae similar to the front.
- The Board requests for the applicant to move the fence at the parking to be behind the arborvitae.
- The Board requested for the applicant to add plantings to the streetscape. These plantings would be within the NYSDOT right-of-way. The applicant must confirm that the proposed plantings meet the NYSDOT requirements.
- The Board requests for the applicant to submit a detailed landscape plan for review.

**Lighting Plan:**

- The Board requests for the applicant to submit a site lighting plan with lighting levels and lighting specifications when developed.

The Board looks forward to further review as the application progresses.

Christopher Taormina

Christopher Taormina, RA  
Chairman

/nc

cc: Applicant

# TOWN OF YORKTOWN

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

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

ABACA Memo – Bird Bus Sales & Service *fka* Kia Dealership

October 8, 2021

Page 2 of 4

### Building Elevations

The architectural drawings show four elevations of a building. Elevation 1 is a long, single-story building with a brick facade and a series of windows. Elevation 2 shows a two-story building with a brick base and a section with vertical slats. Elevation 3 shows a two-story building with a brick base and a section with vertical slats. Elevation 4 shows a two-story building with a brick base and a section with vertical slats. The drawings include labels for materials and window types.

**PROPOSED ALTERATION TO**  
**BIRD BUS**  
3400 CROFTON ROAD  
YORKTOWN HEIGHTS, NY

**Joseph R. Crocco architects**  
100 W. 10th Street  
Yorktown Heights, NY 10598  
(914) 962-1111

**PROPOSED ALTERATION TO**  
**BIRD BUS**  
3400 CROFTON ROAD  
YORKTOWN HEIGHTS, NY

**ELEVATIONS**

**A2.1**

# TOWN OF YORKTOWN

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

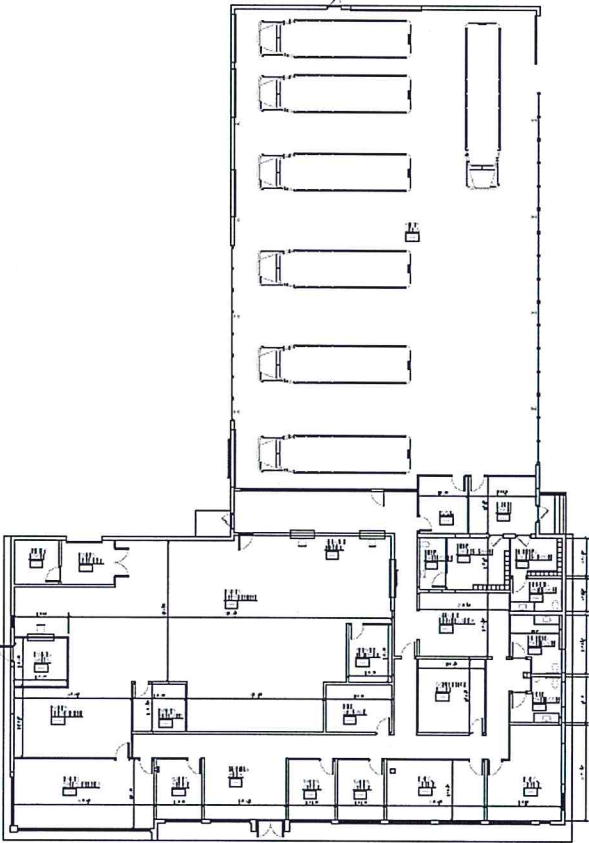
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ABACA Memo – Bird Bus Sales & Service *fka* Kia Dealership

October 8, 2021

Page 3 of 4

### Building Elevations



**REVISIONS**

NO.	DESCRIPTION	DATE
1	ISSUED FOR PERMIT	08/21/21
2	REVISIONS TO PERMIT	08/21/21
3	REVISIONS TO PERMIT	08/21/21
4	REVISIONS TO PERMIT	08/21/21
5	REVISIONS TO PERMIT	08/21/21
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50	REVISIONS TO PERMIT	08/21/21

**Joseph T. Crocco architects**  
architects  
100 Westchester Avenue, Suite 200  
Yorktown Heights, NY 10598  
914.962.2727

**PROPOSED ALTERATION TO BIRD BUS SALES AND SERVICE BUILDING COMPLIANT WITH LOCAL ORDINANCES**

**PROPOSED FLOOR PLANS**

Project No.:  
Date: 08/21/21

Sheet No.: **A1.1**

ABACA Memo – Bird Bus Sales & Service *fka* Kia Dealership

# TOWN OF YORKTOWN

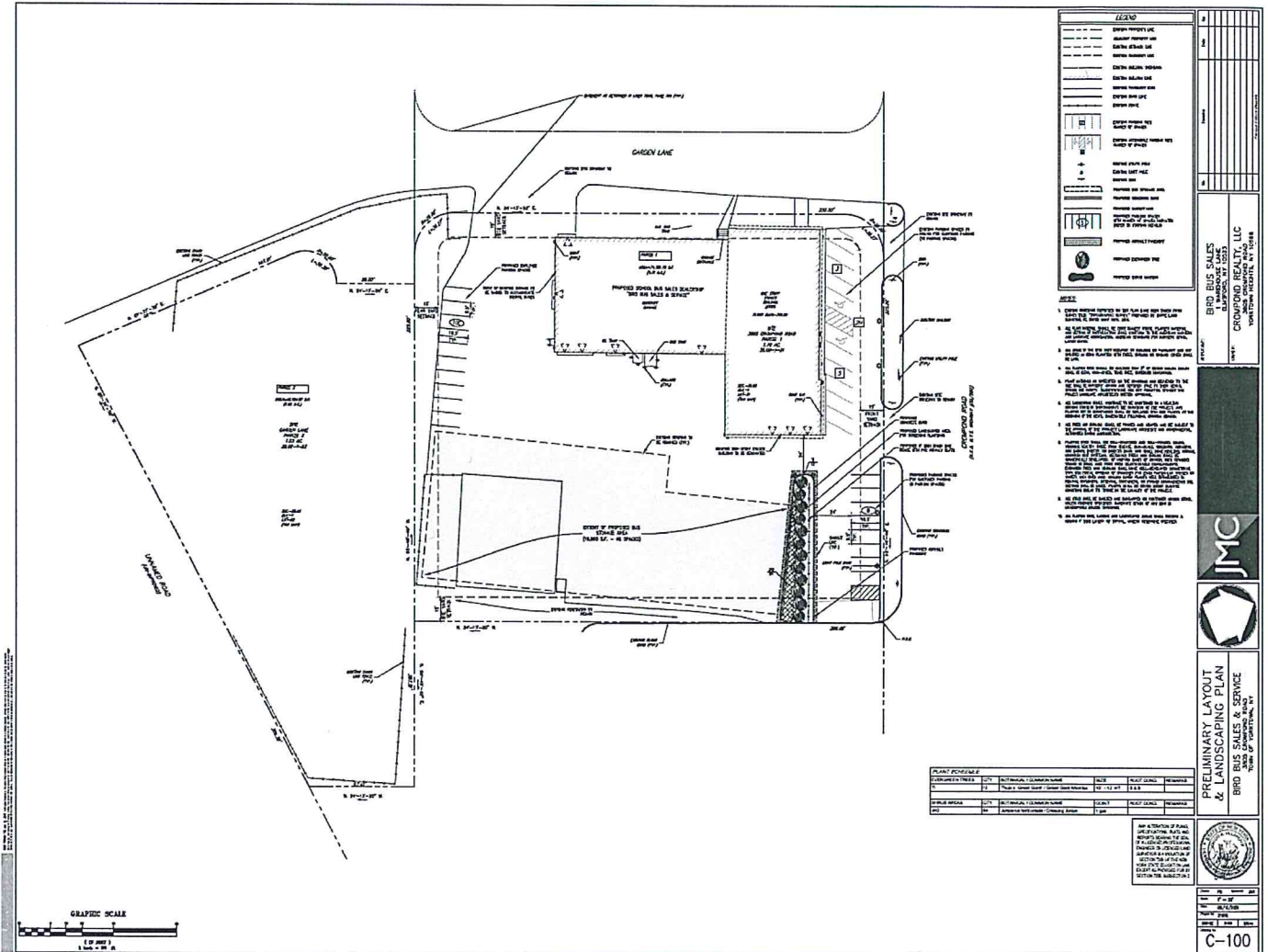
## ADVISORY BOARD ON ARCHITECTURE & COMMUNITY APPEARANCE (ABACA)

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

October 8, 2021

Page 4 of 4

### Preliminary Layout and Landscape Plan



SITE PLAN / SPECIAL USE PERMIT APPROVAL DRAWINGS

# BIRD BUS SALES & SERVICE

TAX MAP SECTION 35.08 | BLOCK 01 | LOTS 21 & 22  
 WESTCHESTER COUNTY  
 3805 CROMPOND ROAD  
 TOWN OF YORKTOWN, NY

**Applicant:**  
**BIRD BUS SALES**  
 1 WAREHOUSE LANE  
 ELMSFORD, NY 10523  
 (516) 233-6199

**Owner:**  
**CROMPOND REALTY, LLC**  
 3805 CROMPOND ROAD  
 YORKTOWN HEIGHTS, NY 10598

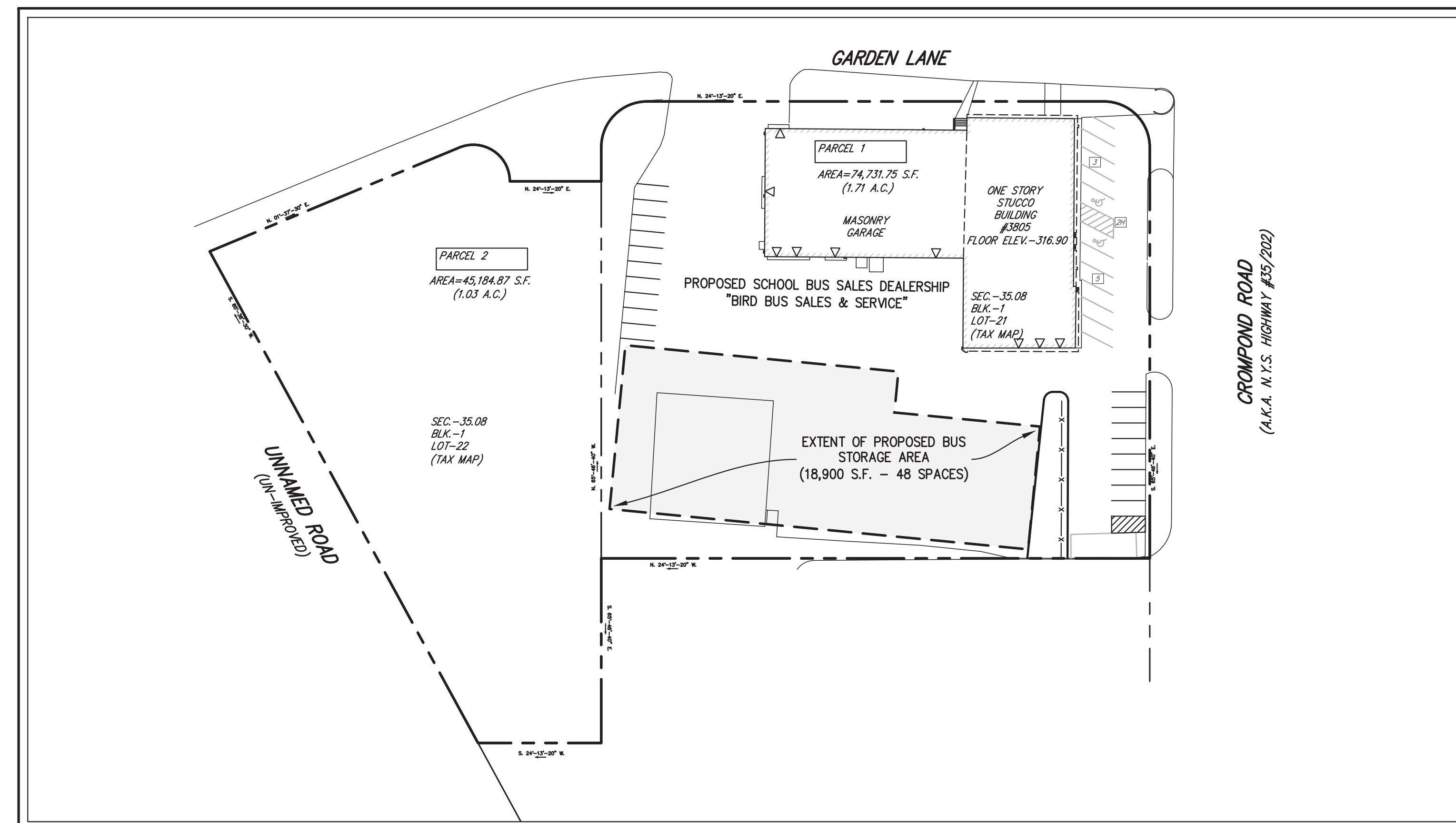
**Architect:**  
**JOSEPH R. CROCCO ARCHITECTS**  
 4 MACDONALD AVE #5  
 ARMONK, NY 10504  
 (914) 273-2774

**JMC** Site Planner, Civil & Traffic Engineer,  
 Surveyor and Landscape Architect:  
 120 BEDFORD ROAD  
 ARMONK, NY 10504  
 (914) 273-5225

**Surveyor:**  
**HOPPE LAND SURVEYING, PC**  
 111 ROUTE 303  
 TAPPAN, NY 10983  
 (845) 359-5050

**JMC Drawing List:**

- C-000 COVER SHEET
- C-010 EXISTING CONDITIONS MAP & DEMOLITION PLAN
- C-100 PRELIMINARY LAYOUT & LANDSCAPING PLAN
- C-900 CONSTRUCTION DETAILS

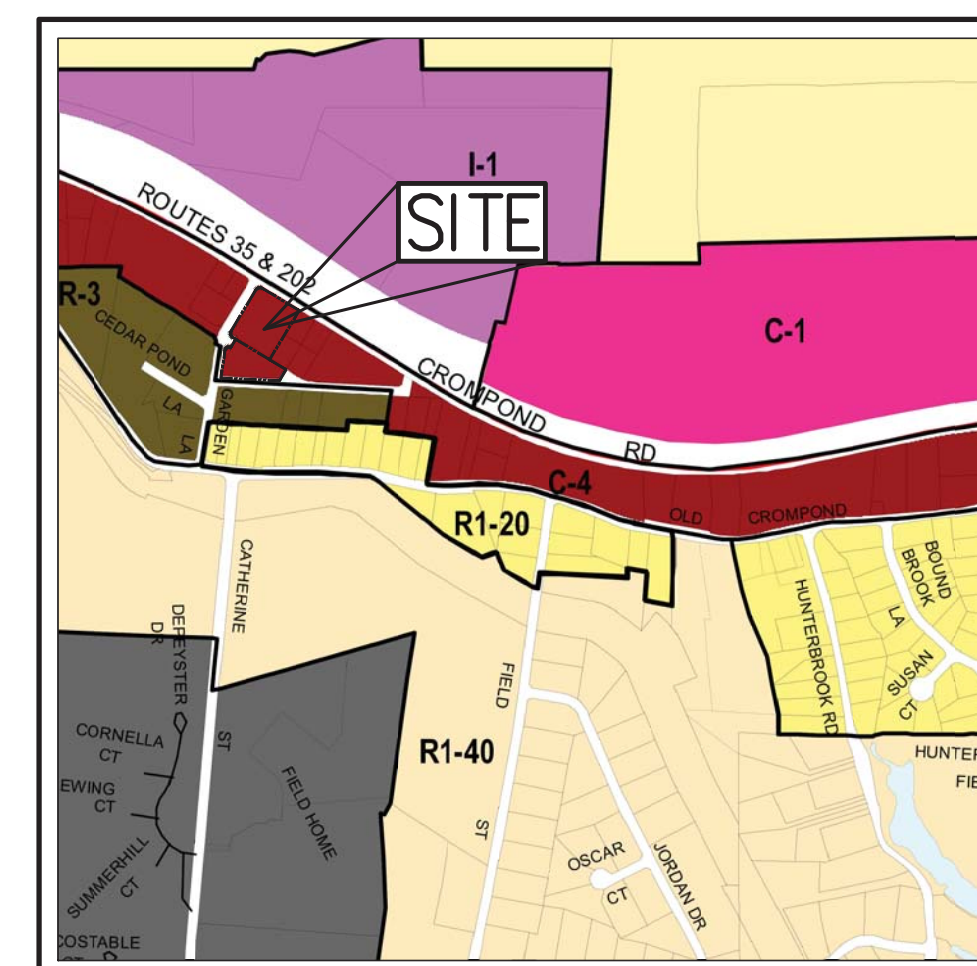


**AREA MAP**  
 SCALE: N.T.S.

TABLE OF LAND USE			
SECTION 35.08, BLOCK 1, LOTS 21 & 22 ZONE "C-4" - "GENEAL COMMERCIAL" PROPOSED USE: NEW AND/OR USED CAR AUTOMOBILE SALES			
DESCRIPTION	REQUIRED	EXISTING	PROPOSED
LOT AREA (FEET)	N/A	119,917	119,917
LOT WIDTH (FEET)	25	250	250
LOT DEPTH (FEET)	100	300	300
BUILDING HEIGHT (STORIES / FEET)	1 / 35	1 / <35	1 / <35
<b>YARDS</b>			
FRONT BUILDING SETBACK (FEET)	15 <sup>(1)</sup>	41	41
REAR BUILDING SETBACK (FEET)	15 <sup>(1)</sup>	89	89
SIDE BUILDING SETBACK (FEET)	15 <sup>(1)</sup>	9 <sup>(2)</sup>	9 <sup>(2)</sup>
<b>SPECIAL PERMIT CRITERIA FOR AUTOMOBILE SALES</b>			
BUILDING COVERAGE (PERCENT)	20 <sup>(3)</sup>	12.7	12.7
PAVED AREA FOR VEHICLE STORAGE (PERCENT)	40 <sup>(4)</sup>	-	15.8
PERMITTED VEHICLE STORAGE (VEHICLES)	59 <sup>(5)</sup>	-	48
CUSTOMER PARKING SPACES (SPACES)	10 <sup>(6)</sup>	-	18
EMPLOYEE PARKING SPACES (SPACES)	10 <sup>(6)</sup>	-	10

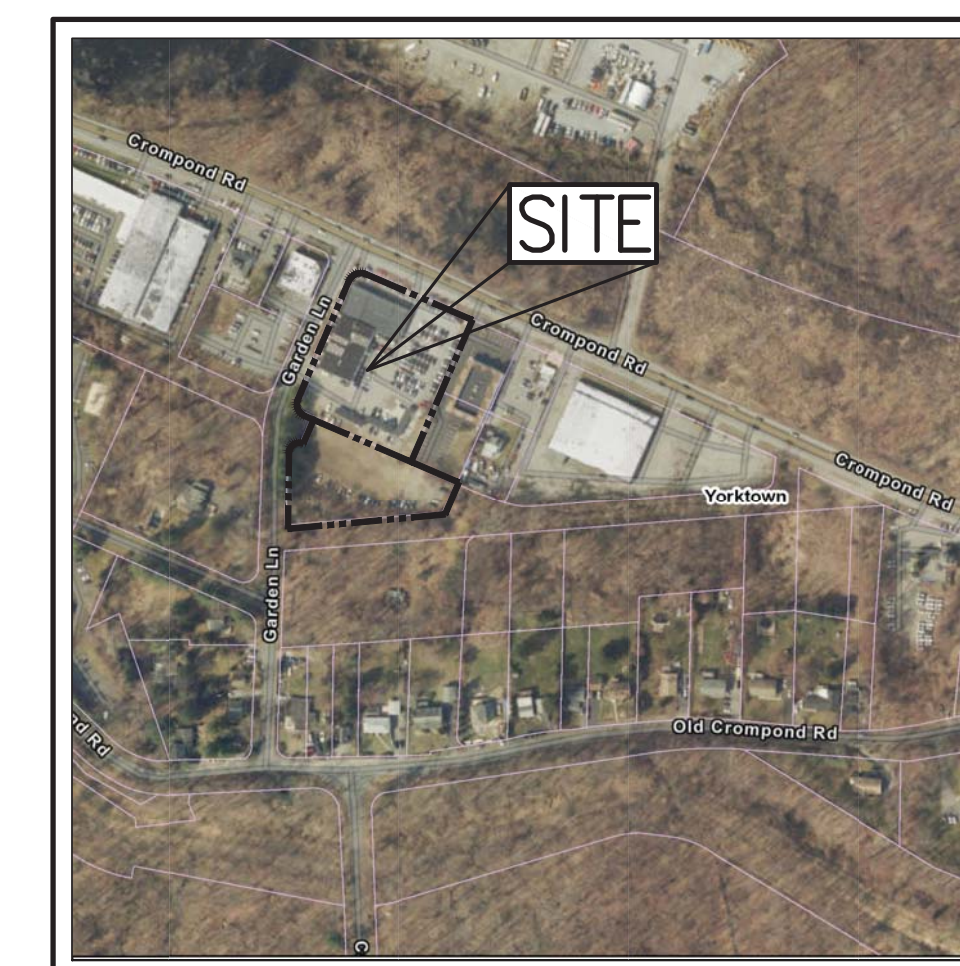
**NOTES:**

- PER SECTION 300-71(B)(1) OF THE TOWN OF YORKTOWN CODE, NO BUILDING SHALL BE LOCATED CLOSER THAN 15 FEET TO ANY LOT LINE.
- EXISTING NON-CONFORMITY.
- PER SECTION 300-71(B)(2) OF THE TOWN OF YORKTOWN CODE, BUILDING COVERAGE SHALL NOT EXCEED 20% OF THE LOT AREA.
- PER SECTION 300-71(B)(3) OF THE TOWN OF YORKTOWN CODE, PAVING FOR STORAGE OR DISPLAY OF NEW AND/OR USED CARS SHALL NOT COVER MORE THAN 40% OF THE LOT AREA.
- PER SECTION 300-71(B)(6) OF THE TOWN OF YORKTOWN CODE, NO MORE THAN ONE MOTOR VEHICLE FOR EVERY 2,000 SQUARE FEET OF LOT AREA SHALL BE STORED OUTSIDE AT ANY TIME. AND NO OUTDOOR STORAGE OF PARTIALLY DISMANTLED OR WRECKED MOTOR VEHICLES SHALL BE PERMITTED. ALL OUTDOOR AUTOMOBILE STORAGE AREAS SHALL BE SCREENED BY FENCING AND YEAR-ROUND LANDSCAPING. BASED ON A TOTAL LOT AREA OF 119,917 SQUARE FEET, 59 VEHICLES ARE PERMITTED TO BE STORED ON THE PROPERTY.
- PER SECTION 300-71(B)(10) OF THE TOWN OF YORKTOWN CODE, TEN CUSTOMER PARKING SPACES SHALL BE PROVIDED AND SHALL BE SO MARKED. IN ADDITION, EMPLOYEE PARKING AT THE RATE OF ONE SPACE PER TWO EMPLOYEES OF MAXIMUM SHIFT SHALL BE PROVIDED IN THE REAR PORTION OF THE LOT AND SHALL BE SO MARKED. BASED ON A NUMBER OF 20 EMPLOYEES ON THE MAXIMUM SHIFT, 10 EMPLOYEE PARKING SPACES ARE REQUIRED.



**ZONING MAP**  
 SCALE: 1" = 1,000'  
 SOURCE: TOWN OF YORKTOWN  
 OFFICIAL ZONING MAP / 2019

LEGEND	
---	SITE PROPERTY LINE
---	LOT LINE
C-4	COMMERCIAL GENERAL DISTRICT
I-1	LIGHT INDUSTRIAL PARK DISTRICT
R-3	MULTIFAMILY RESIDENTIAL DISTRICT
R-1-40	SINGLE-FAMILY RESIDENTIAL DISTRICT



**VICINITY MAP**  
 SCALE: 1" = 500'  
 SOURCE: WESTCHESTER GIS / 2021

**GENERAL CONSTRUCTION NOTES APPLY TO ALL WORK HEREIN:**

- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CALL 811 "DIG SAFELY" (1-800-962-7962) TO HAVE UNDERGROUND UTILITIES LOCATED INCLUDING ARRANGING FOR A PRIVATE MARKOUT ON-SITE WHERE APPLICABLE. EXPLORATORY EXCAVATIONS SHALL COMPLY WITH CODE 753 REQUIREMENTS. NO WORK SHALL COMMENCE UNTIL ALL THE OPERATORS HAVE NOTIFIED THE CONTRACTOR THAT THEIR UTILITIES HAVE BEEN LOCATED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PRESERVATION OF ALL PUBLIC AND PRIVATE UNDERGROUND AND SURFACE UTILITIES AND STRUCTURES AT OR ADJACENT TO THE SITE OF CONSTRUCTION. INsofar AS THEY MAY BE ENDANGERED BY THE CONTRACTOR'S OPERATIONS, THIS SHALL HOLD TRUE WHETHER OR NOT THEY ARE SHOWN ON THE CONTRACT DRAWINGS. IF THEY ARE SHOWN ON THE DRAWINGS, THEIR LOCATIONS ARE NOT GUARANTEED EVEN THOUGH THE INFORMATION WAS OBTAINED FROM THE BEST AVAILABLE SOURCES, AND IN ANY EVENT, OTHER UTILITIES ON THESE PLANS MAY BE ENCOUNTERED IN THE FIELD. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, IMMEDIATELY REPAIR OR REPLACE ANY STRUCTURES OR UTILITIES THAT HE DAMAGES, AND SHALL CONSTANTLY PROCEED WITH CAUTION TO PREVENT UNDE interruption OF UTILITY SERVICE.
- CONTRACTOR SHALL HAND DIG TEST PITS TO VERIFY THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR SHALL VERIFY EXISTING UTILITIES DEPTHS AND ADVISE OF ANY CONFLICTS WITH PROPOSED UTILITIES. IF CONFLICTS ARE PRESENT, THE OWNER'S FIELD REPRESENTATIVE, JMC, PLLC AND THE APPLICABLE MUNICIPALITY OR AGENCY SHALL BE NOTIFIED IN WRITING. THE EXISTING/PROPOSED UTILITIES RELOCATION SHALL BE DESIGNED BY JMC, PLLC.
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY AND ALL LOCAL PERMITS REQUIRED.
- ALL WORK SHALL BE DONE IN STRICT COMPLIANCE WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES, STANDARDS, ORDINANCES, RULES, AND REGULATIONS. ALL CONSTRUCTION WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL SAFETY CODES. APPLICABLE SAFETY CODES MEAN THE LATEST EDITION INCLUDING ANY AND ALL AMENDMENTS, REVISIONS, AND ADDITIONS THERETO, TO THE FEDERAL DEPARTMENT OF LABOR, OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATOR'S OCCUPATIONAL SAFETY AND HEALTH STANDARDS (OSHA), AND APPLICABLE SAFETY, HEALTH REGULATIONS AND BUILDING CODES FOR CONSTRUCTION IN THE STATE OF NEW YORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR GUARDING AND PROTECTING ALL OPEN EXCAVATIONS IN ACCORDANCE WITH THE PROVISION OF SECTION 107-05 (SAFETY AND HEALTH REQUIREMENTS) OF THE NYS DOT STANDARD SPECIFICATIONS. IF THE CONTRACTOR PERFORMS ANY HAZARDOUS CONSTRUCTION PRACTICES, ALL OPERATIONS IN THE AFFECTED AREA SHALL BE DISCONTINUED AND IMMEDIATE ACTION SHALL BE TAKEN TO CORRECT THE SITUATION TO THE SATISFACTION OF THE APPROVAL AUTHORITY HAVING JURISDICTION.
- CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PROPERTIES AFFECTED BY THE SCOPE OF WORK SHOWN HEREON AT ALL TIMES TO THE SATISFACTION OF THE OWNERS REPRESENTATIVE. PLACED CONSTRUCTION TO PROVIDE ACCESS MAY BE CONSTRUCTED WITH SUBBASE MATERIAL EXCEPT THAT TEMPORARY ASPHALT CONCRETE SHALL BE RAMPING AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SAFE PEDESTRIAN ACCESS AT ALL TIMES.
- CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF EXISTING PAVEMENT TO REMAIN.

SUBSURFACE UTILITY LOCATIONS ARE BASED ON A COMPILATION OF FIELD EVIDENCE, AVAILABLE RECORDED PLANS AND/OR UTILITY MARK-OUTS. THE LOCATION OR COMPLETENESS OF UNDERGROUND INFORMATION CANNOT BE GUARANTEED. VERIFY THE ACTUAL LOCATION OF ALL UTILITIES PRIOR TO EXCAVATION OR CONSTRUCTION.



No.	Revision	Date	By

Previous Editions Obsolete

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 John Meyer Consulting, Inc.  
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 www.jmcpllc.com



Drawn	PD	Approved	JAR
Scale	NOT TO SCALE		
Date	09/10/2021		
Project No.	21005		
2005-SIE	C-000	COVER	JAR
Drawing No.	C-000		

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CROMPOND ROAD  
(A.K.A. N.Y.S. HIGHWAY 455/202)

LEGEND	
	EXISTING PROPERTY LINE
	ADJACENT PROPERTY LINE
	EXISTING EASEMENT LINE
	EXISTING BUILDING OVERHANG
	EXISTING BUILDING LINE
	EXISTING PAVEMENT EDGE
	EXISTING CURB LINE
	EXISTING CONTOUR
	EXISTING INDEX CONTOUR
	EXISTING FENCE
	EXISTING PARKING WITH NUMBER OF SPACES
	EXISTING ACCESSIBLE PARKING WITH NUMBER OF SPACES
	EXISTING OVERHEAD WIRES
	EXISTING DRAIN INLET
	EXISTING MANHOLE
	EXISTING FIRE HYDRANT
	EXISTING WATER VALVE
	EXISTING UTILITY POLE
	EXISTING LIGHT POLE
	EXISTING SIGN
	EXISTING SITE FEATURE TO BE REMOVED
	PROPOSED SAWCUT LINE
	PAVEMENT REMOVAL

- NOTES:**
- EXISTING CONDITIONS DEPICTED ON THIS PLAN HAVE BEEN TAKEN FROM SURVEY TITLED, "TOPOGRAPHIC SURVEY," PREPARED BY HOPPE LAND SURVEYING, P.C. DATED MAY 19TH, 2016.
  - THE CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING UTILITIES TO BE DEMOLISHED AND EXISTING UTILITIES TO BE PROTECTED. IF ANY DISCREPANCIES ARE FOUND, THE CONTRACTOR SHALL NOTIFY THE GENERAL CONTRACTOR AND JMC PRIOR TO THE START OF CONSTRUCTION.
  - PRIOR TO THE START OF ANY DEMOLITION THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND/OR APPROVALS FROM THE TOWN OF YORKTOWN AND ALL OTHER AUTHORITIES HAVING JURISDICTION. CONTRACTOR SHALL PAY ALL OUTSTANDING FEES, CHARGES, AND DEPOSITS TO ACQUIRE SAID PERMITS. NO DEMOLITION SHALL COMMENCE UNTIL A PERMIT HAS BEEN OBTAINED FROM THE TOWN OF YORKTOWN BUILDING DEPARTMENT.
  - ANY UNSUITABLE MATERIAL FOUND ON-SITE DURING CONSTRUCTION SHALL BE DISPOSED OF OFF-SITE IN A MANNER APPROVED BY ALL AUTHORITIES HAVING JURISDICTION AND REPLACED WITH SUITABLE MATERIAL AS REQUIRED. ALL REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL SHALL BE COMPLETED UNDER THE DIRECT SUPERVISION OF A GEOTECHNICAL ENGINEER.
  - ALL CONSTRUCTION/DEMOLITION DEBRIS NOT PROPOSED TO BE RECYCLED SHALL BE REMOVED AND LEGALLY DISPOSED OF OFF-SITE IN ACCORDANCE WITH THE REGULATIONS OF ALL LOCAL, STATE AND FEDERAL AGENCIES HAVING JURISDICTION.
  - PRIOR TO THE START OF SITE DEMOLITION, EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE APPROVED PLANS, AS REQUIRED AND/OR DIRECTED BY THE TOWN OF YORKTOWN OR JMC.
  - EXISTING DRAINAGE PATTERNS ON SITE SHALL BE MAINTAINED TO THE MAXIMUM EXTENT PRACTICABLE.
  - ALL EXISTING UTILITY CASTINGS WHICH ARE TO REMAIN SHALL BE REMOVED AND RESET TO THE NEW PROPOSED GRADES IN ACCORDANCE WITH THE DIRECTIONS OF THE OWNER'S FIELD REPRESENTATIVE. EXISTING CASTINGS WHICH ARE DAMAGED OR UNFIT FOR INSTALLATION IN THE NEW CONSTRUCTION, AS DETERMINED BY THE OWNER'S FIELD REPRESENTATIVE, SHALL BE REPLACED.
  - ALL EXISTING SIDEWALKS, CURBS, PAVEMENT, ETC. TO REMAIN, WHICH ARE DISTURBED OR DAMAGED DUE TO THE NEW CONSTRUCTION, ARE TO BE REPLACED WITH MATERIALS CONSISTENT WITH EXISTING CONDITIONS.
  - PRIOR TO COMMENCEMENT OF DEMOLITION, THE CONTRACTOR MUST PROVIDE 24-HOUR NOTIFICATION TO THE TOWN OF YORKTOWN BUILDING DEPARTMENT AND JMC.

No.	Revision	Date	By

APPLICANT: **BIRD BUS SALES**  
1 WAREHOUSE LANE  
ELMSFORD, NY 10523

OWNER: **CROMPOND REALTY, LLC**  
3805 CROMPOND ROAD  
YORKTOWN HEIGHTS, NY 10598

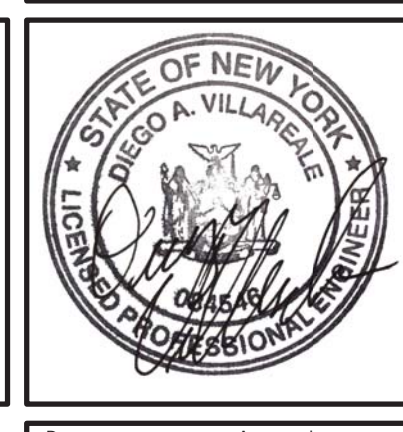
JMC Planning, Engineering, Landscape Architecture & Land Surveying, PLLC  
JMC Site Development Consultants, LLC  
John Mayer Consulting, Inc.

120 BEDFORD ROAD • ARTHUR, NY 10504  
voice 914.273.5225 • fax 914.273.2102  
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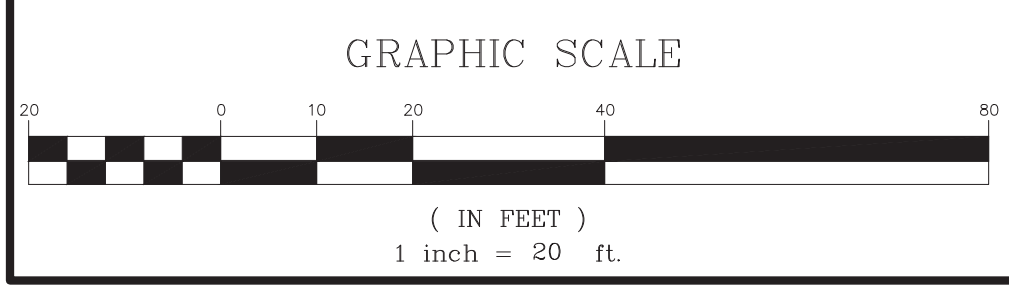


**EXISTING CONDITIONS MAP & DEMOLITION PLAN**

**BIRD BUS SALES & SERVICE**  
3805 CROMPOND ROAD  
TOWN OF YORKTOWN, NY



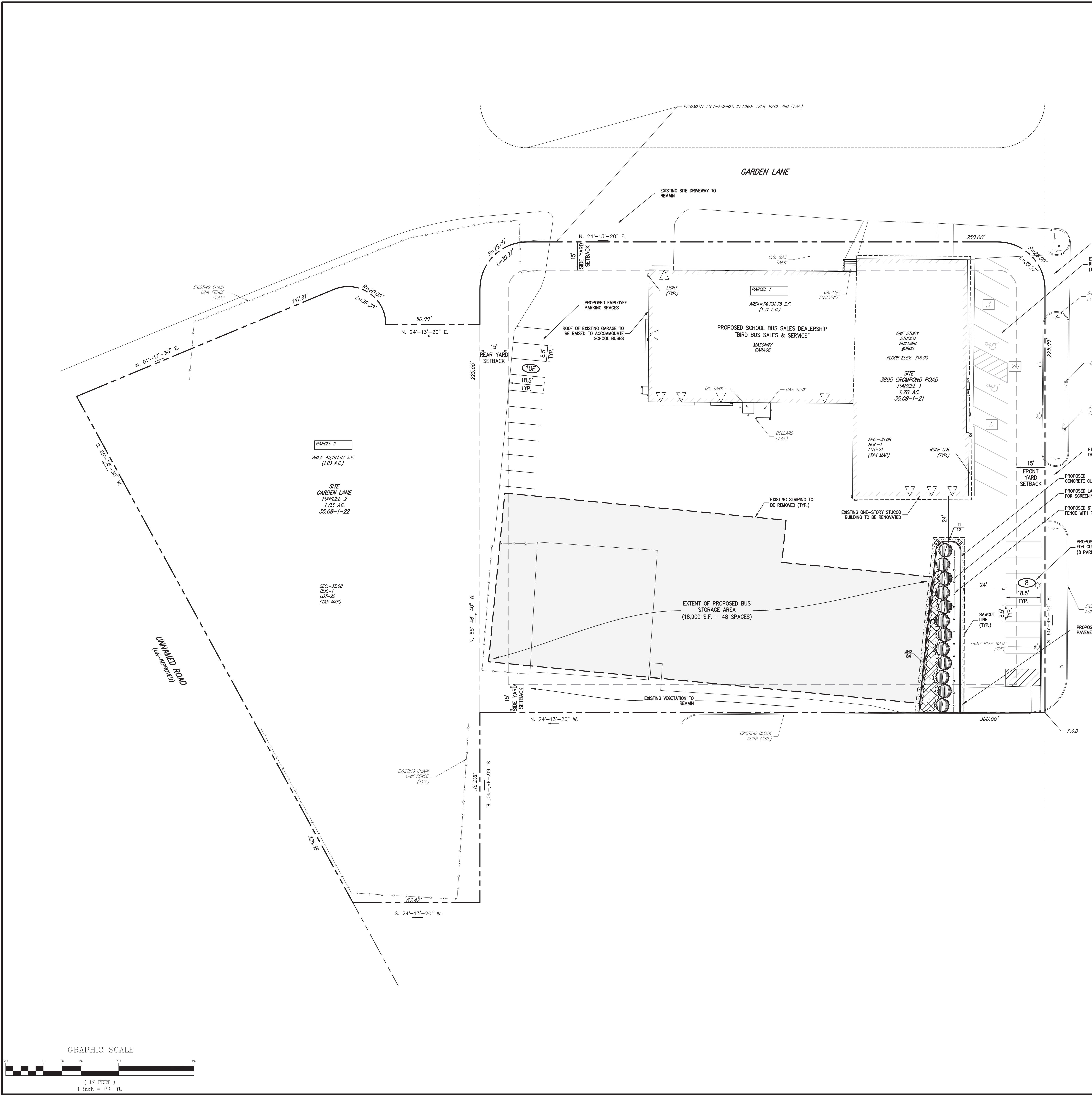
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Scale: 1" = 20'	Date: 09/10/2021
Project No: 21005	2002-SE
C-010	EXIST
Drawing No: <b>C-010</b>	



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PLANT SCHEDULE				
EVERGREEN TREES	QTY	BOTANICAL / COMMON NAME	SIZE	ROOT COND. REMARKS
TI	12	Thuja x 'Green Giant' / Green Giant Arborvitae	10' - 12' HT.	B & B
SHRUB AREAS	QTY	BOTANICAL / COMMON NAME	CONT	ROOT COND. REMARKS
JH2	84	Juniperus horizontalis / Creeping Juniper	1 gal	

LEGEND	
	EXISTING PROPERTY LINE
	ADJACENT PROPERTY LINE
	EXISTING SETBACK LINE
	EXISTING EASEMENT LINE
	EXISTING BUILDING OVERHANG
	EXISTING BUILDING LINE
	EXISTING PAVEMENT EDGE
	EXISTING CURB LINE
	EXISTING FENCE
	EXISTING PARKING WITH NUMBER OF SPACES
	EXISTING ACCESSIBLE PARKING WITH NUMBER OF SPACES
	EXISTING UTILITY POLE
	EXISTING LIGHT POLE
	EXISTING SIGN
	PROPOSED BUS STORAGE AREA
	PROPOSED CONCRETE CURB
	PROPOSED SAWCUT LINE
	PROPOSED PARKING SPACES WITH NUMBER OF SPACES INDICATED (REFER TO STRIPING DETAILS)
	PROPOSED ASPHALT PAVEMENT
	PROPOSED EVERGREEN TREE
	PROPOSED SHRUB MASSING

- NOTES:**
- EXISTING CONDITIONS DEPICTED ON THIS PLAN HAVE BEEN TAKEN FROM SURVEY TITLED, "TOPOGRAPHIC SURVEY," PREPARED BY HOPPE LAND SURVEYING, P.C. DATED MAY 19TH, 2016.
  - ALL PLANT MATERIAL SHALL BE FIRST QUALITY STOCK, PLANTED MATERIAL AND METHODS OF INSTALLATION SHALL CONFORM TO THE AMERICAN NURSERY AND LANDSCAPE ASSOCIATION, AMERICAN STANDARD FOR NURSERY STOCK, LATEST EDITION.
  - ALL AREAS OF THE SITE NOT OCCUPIED BY BUILDING OR PAVEMENT AND NOT SPECIFIED AS BEING PLANTED WITH TREES, SHRUBS OR GROUND COVER SHALL BE LAWN.
  - ALL PLANTING BEDS SHALL BE MULCHED WITH 3" OF BROWN MULCH. MULCH SHALL BE CLEAN, NON-DYED, TOXIC FREE, SHREDDED HARDWOOD.
  - PLANT MATERIALS AS SPECIFIED ON THE DRAWINGS AND DELIVERED TO THE SITE SHALL BE NURSERY GROWN AND CERTIFIED TRUE TO THEIR GENUS, SPECIES AND VARIETY. SUBSTITUTIONS ARE NOT PERMITTED WITHOUT THE PROJECT LANDSCAPE ARCHITECTS WRITTEN APPROVAL.
  - ALL LANDSCAPING SHALL CONTINUE TO BE MAINTAINED IN A HEALTHY GROWING CONDITION THROUGHOUT THE DURATION OF THE PROJECT. ANY PLANTING NOT SO MAINTAINED SHALL BE REPLACED WITH NEW PLANTS AT THE BEGINNING OF THE NEXT, IMMEDIATELY FOLLOWING, GROWING SEASON.
  - ALL TREES AND SHRUBS SHALL BE PRUNED AND SHAPED AND BE SUBJECT TO THE APPROVAL OF THE PROJECT LANDSCAPE ARCHITECT AND GOVERNMENTAL AUTHORITIES HAVING JURISDICTION.
  - PLANTING STOCK SHALL BE WELL-BRANCHED AND WELL-FORMED, SOUND, VIGOROUS, HEALTHY, FREE FROM DISEASE, SUN-SCALE, WINDBURN, ABRASION, AND HARMFUL INSECTS OR INSECT'S EGGS, AND SHALL HAVE HEALTHY, NORMAL, UNBROKEN ROOT SYSTEMS. DECIDUOUS TREES AND SHRUBS SHALL BE SYMMETRICALLY DEVELOPED, OF UNIFORM HABIT OF GROWTH, WITH STRAIGHT TRUNKS OR STEMS, AND FREE FROM OBJECTIONABLE DISFIGUREMENTS. EVERGREEN TREES AND SHRUBS SHALL HAVE WELL-DEVELOPED SYMMETRICAL TOPS WITH TYPICAL SPREAD OF BRANCHES FOR EACH PARTICULAR SPECIES OR VARIETY. ONLY VINES AND GROUND COVER PLANTS WELL ESTABLISHED IN REMOVAL CONTAINERS, INTEGRAL CONTAINERS OR FORMED HOMOGENEOUS SOIL SECTIONS SHALL BE USED. PLANTS SHALL BE GROWN UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE IN THE LOCALITY OF THE PROJECT.
  - ALL STOCK SHALL BE BALLED AND BURAPPED OR CONTAINER GROWN STOCK, UNLESS OTHERWISE SPECIFIED. BAREROOT STOCK OF ANY KIND IS UNACCEPTABLE UNLESS SPECIFIED.
  - ALL PLANTING BEDS, LAWNS AND LANDSCAPED AREAS SHALL RECEIVE A MINIMUM 4" THICK LAYER OF TOPSOIL, UNLESS OTHERWISE SPECIFIED.

No.	Revision	Date	By

APPLICANT: **BIRD BUS SALES**  
 1 WAREHOUSE LANE  
 ELMSFORD, NY 10523

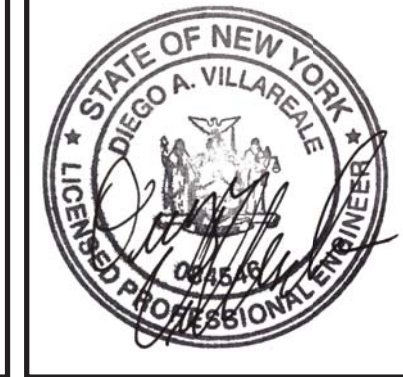
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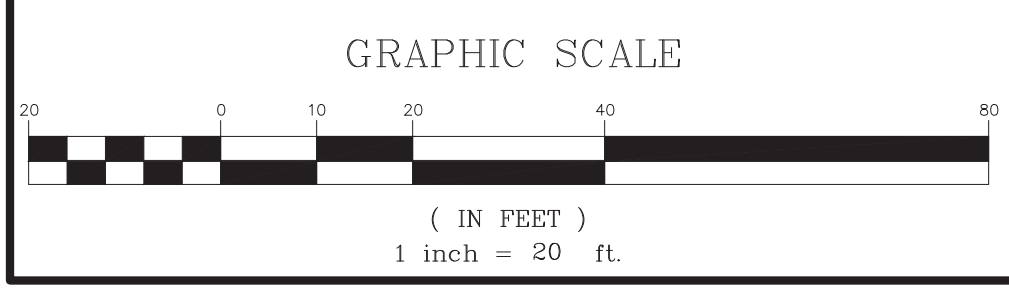


**PRELIMINARY LAYOUT & LANDSCAPING PLAN**

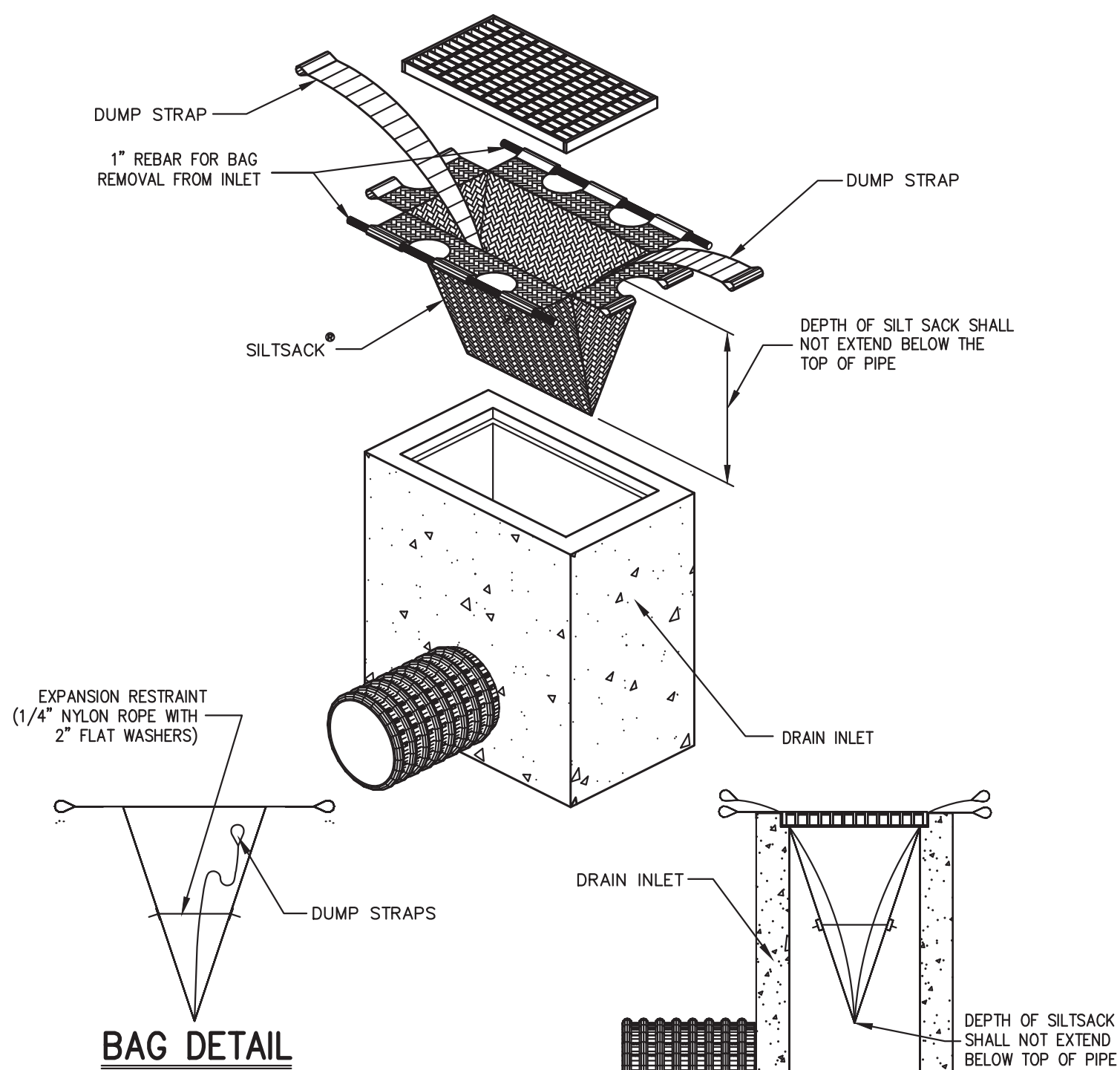
**BIRD BUS SALES & SERVICE**  
 3805 CROMPOND ROAD  
 TOWN OF YORKTOWN, NY



Drawn: **PD** Approved: **JAR**  
 Scale: **1" = 20'**  
 Date: **09/10/2021**  
 Project No: **21005**  
 Title: **C-100** LAY.out  
 Drawing No: **C-100**







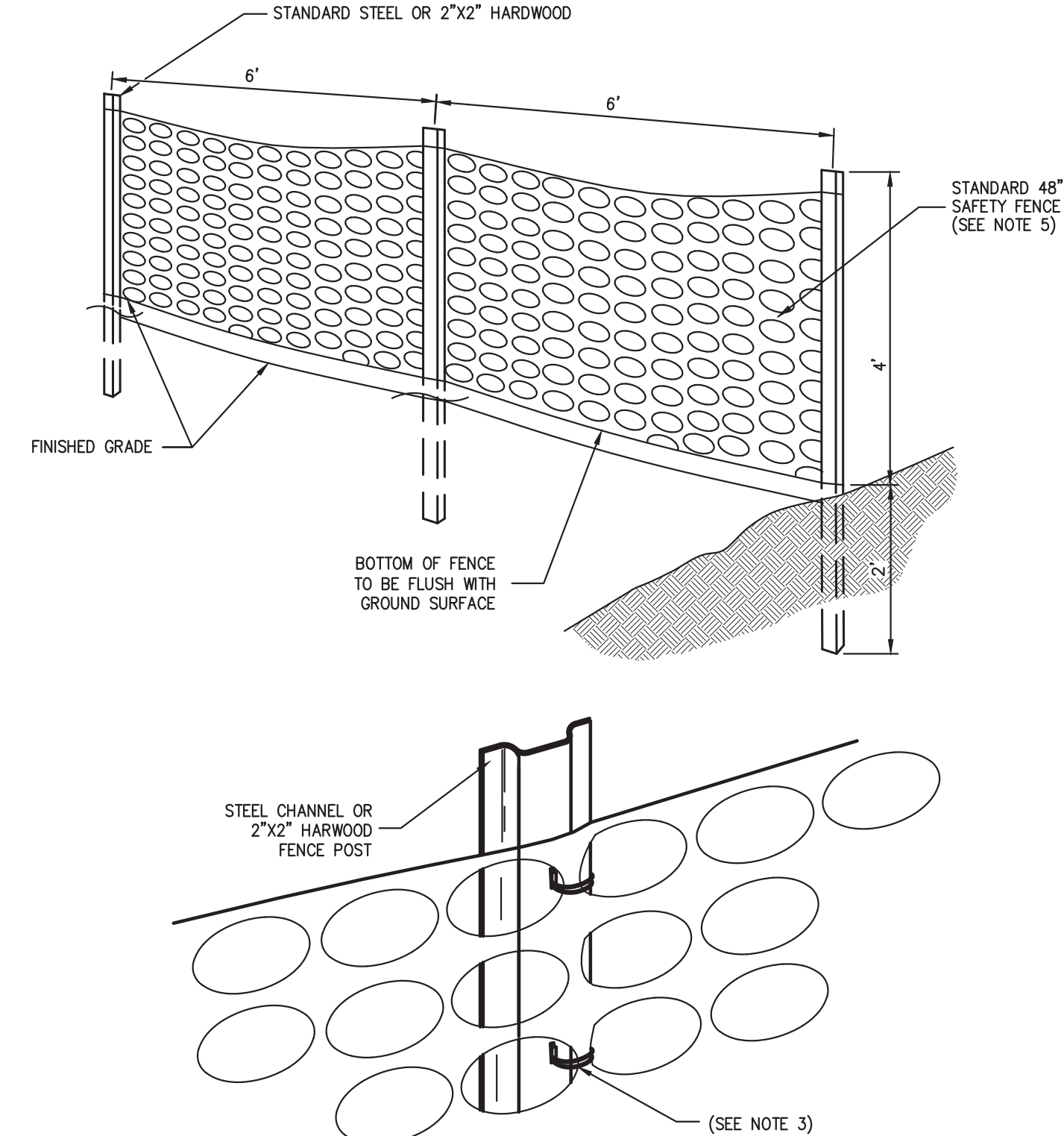
**BAG DETAIL**  
HI-FLOW SILT SACK AS MANUFACTURED BY ACF ENVIRONMENTAL OR APPROVED EQUAL® (FOR AREAS OF MODERATE TO HEAVY PRECIPITATION AND RUN-OFF)

PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4632	265 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20 %
PUNCTURE	ASTM D-4633	135 LBS
MULLEN BURST	ASTM D-3786	420 PSI
TRAPEZOID TEAR	ASTM D-4633	45 LBS
UV RESISTANCE	ASTM D-4355	90 %
APPARENT OPENING SIZE	ASTM D-4751	20 US SEIVE
FLOW RATE	ASTM D-4491	200 GAL/MIN/50 FT
PERMITTIVITY	ASTM D-4491	1.5 SEC -1

**INSTALLATION DETAIL**  
NOTE: CURB INLETS SHALL BE TYPE B WITH CURB DEFLECTOR.

**SILT SACK**

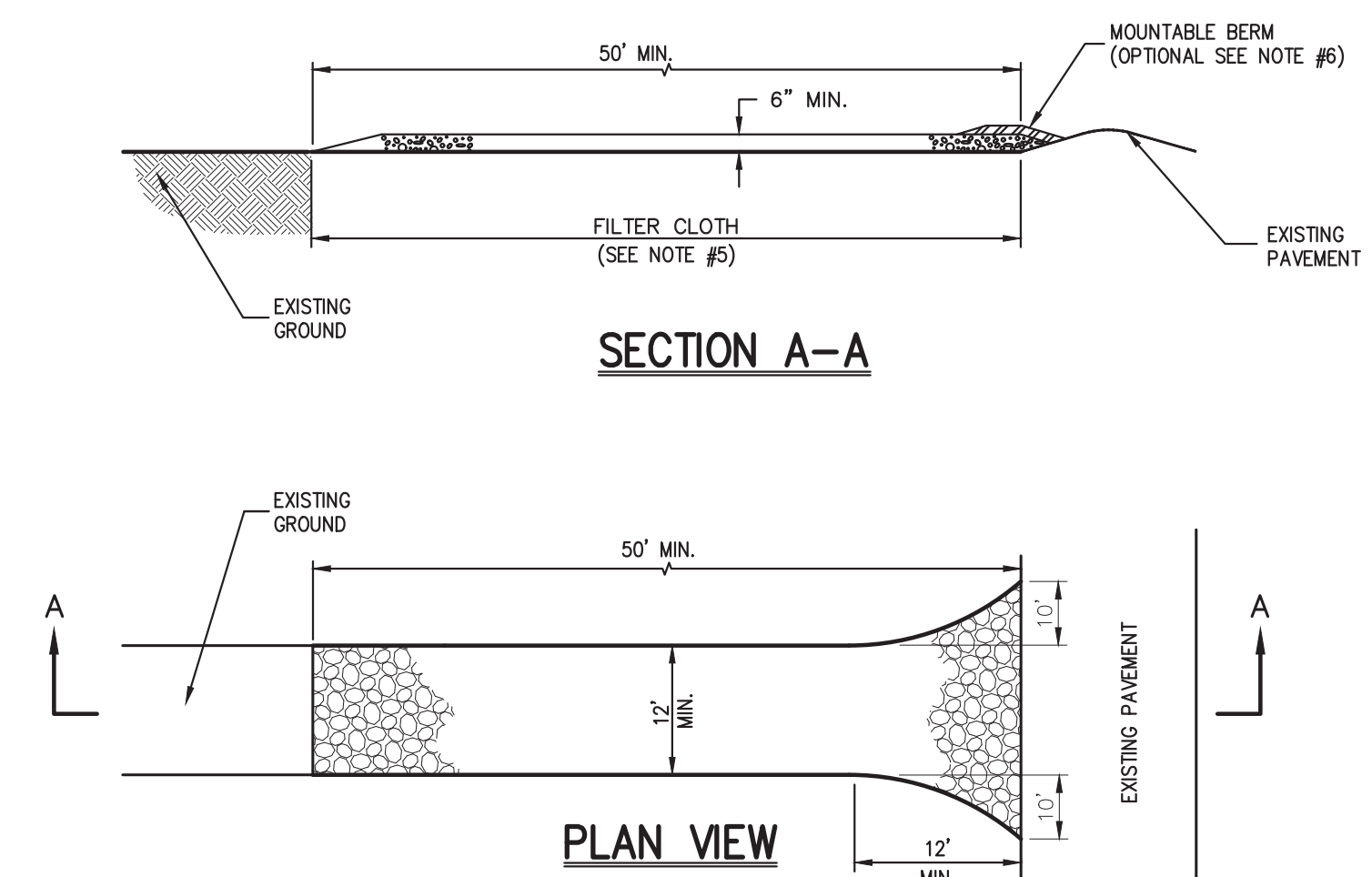
1



**NOTES:**  
1. SPACE SUPPORT FENCE POSTS AT 6 FOOT INTERVALS.  
2. DRIVE SUPPORT POSTS 2 FEET INTO GROUND.  
3. FIRMLY FASTEN FENCE MATERIAL IN PLACE BY WRING TO FENCE POST WHILE MAINTAINING TENSION ACROSS FULL HEIGHT OF FENCE. WRING SHALL BE DONE IN A MANNER THAT WILL PREVENT SAGGING OF FENCE MATERIAL.  
4. PROVIDE PERIODIC INSPECTION AND MAINTENANCE OF FENCE INCLUDING REPAIRS AS NECESSARY AND REQUIRED.  
5. PLASTIC FENCE SHALL BE INTERNATIONAL ORANGE COLOR, AS MANUFACTURED BY ADRI ENTERPRISES, INC. OR APPROVED EQUAL.  
6. REMOVE CONSTRUCTION FENCE AS DIRECTED BY THE OWNER'S FIELD REPRESENTATIVE.

**CONSTRUCTION FENCE**

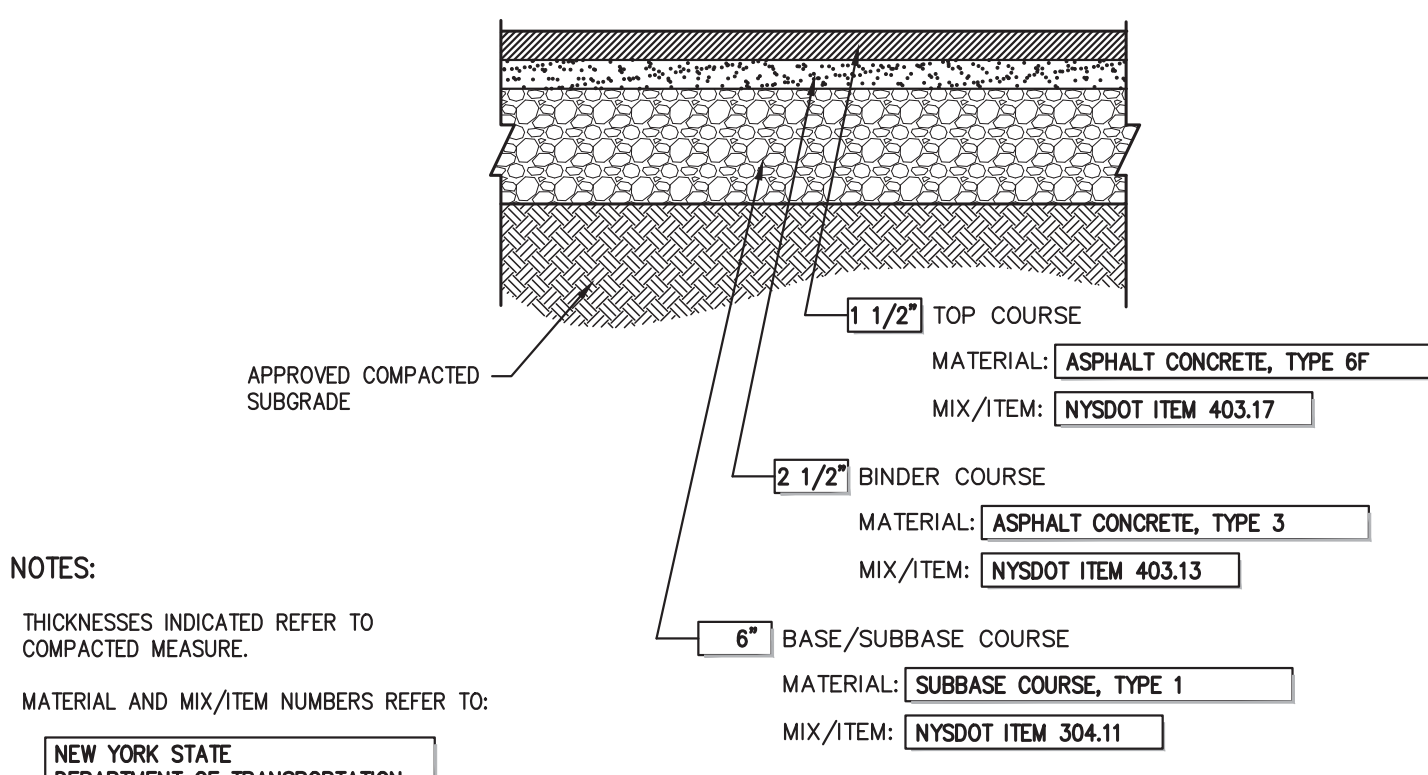
2



**NOTES:**  
1. STONE SIZE - USE 1\"/>

**STABILIZED CONSTRUCTION ENTRANCE**

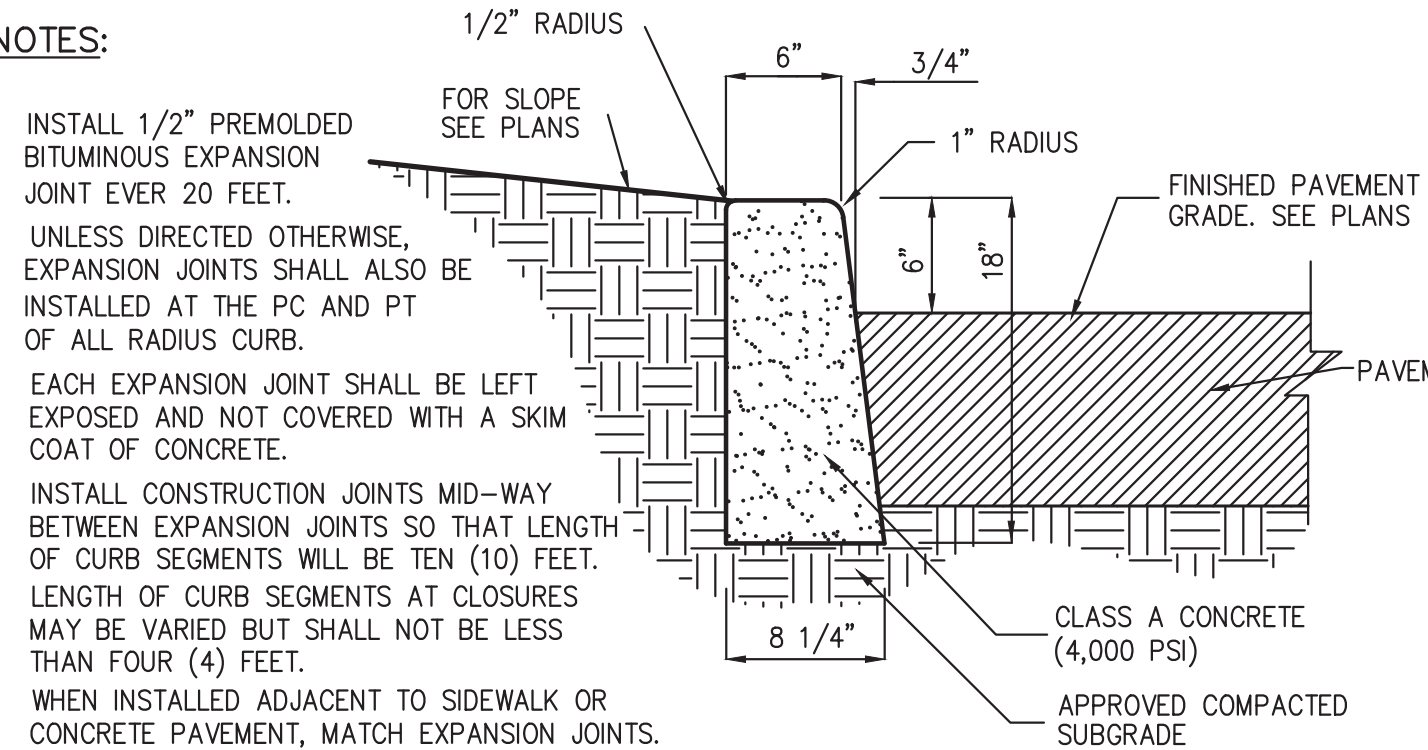
3



**NOTES:**  
1. THICKNESSES INDICATED REFER TO COMPACTED MEASURE.  
2. MATERIAL AND MIX/ITEM NUMBERS REFER TO:  
NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS

**SITE PAVEMENT**  
(Light Duty)

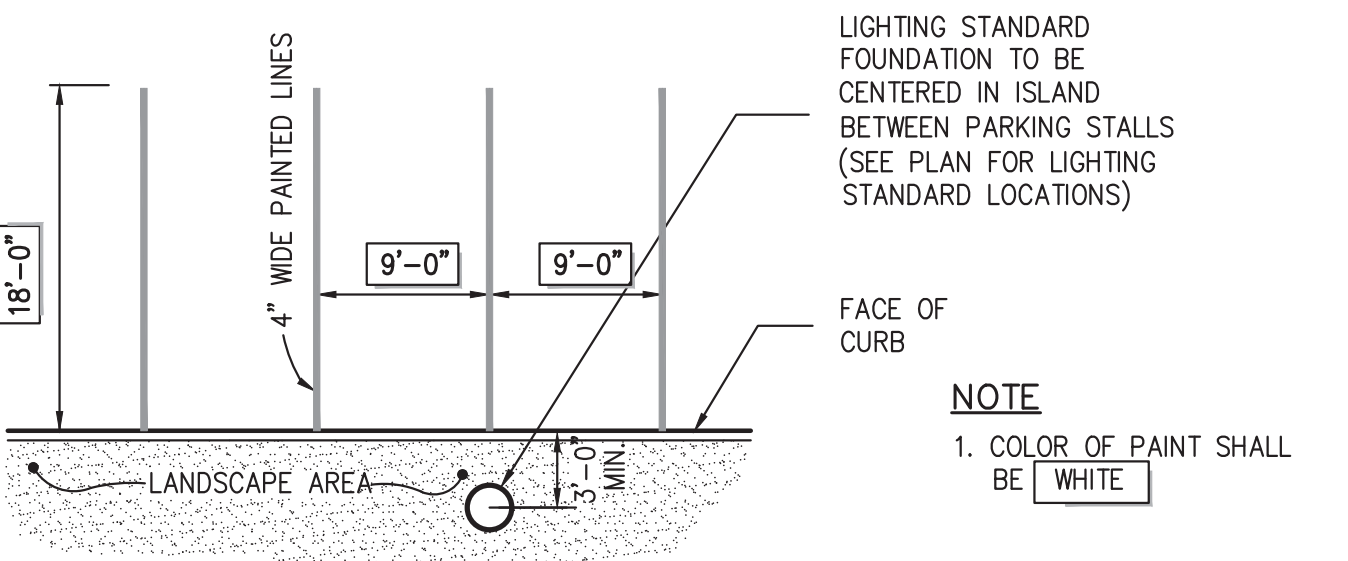
4



**NOTES:**  
1. INSTALL 1/2\"/>

**CAST-IN-PLACE CONCRETE CURB**

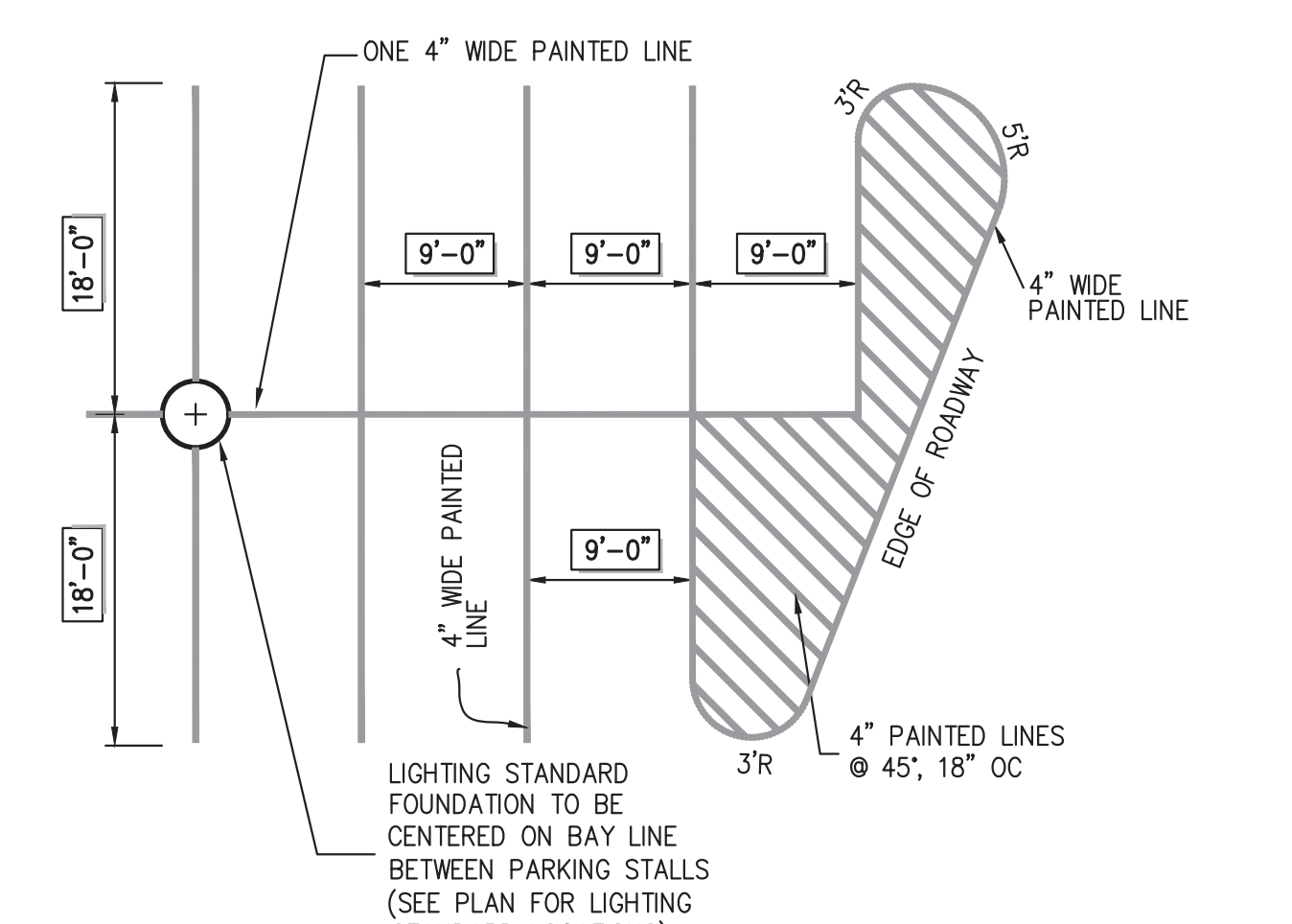
5



**NOTE:**  
1. COLOR OF PAINT SHALL BE WHITE

**90° PARKING**  
(SINGLE STRIPING - CURBED PERIMETER)

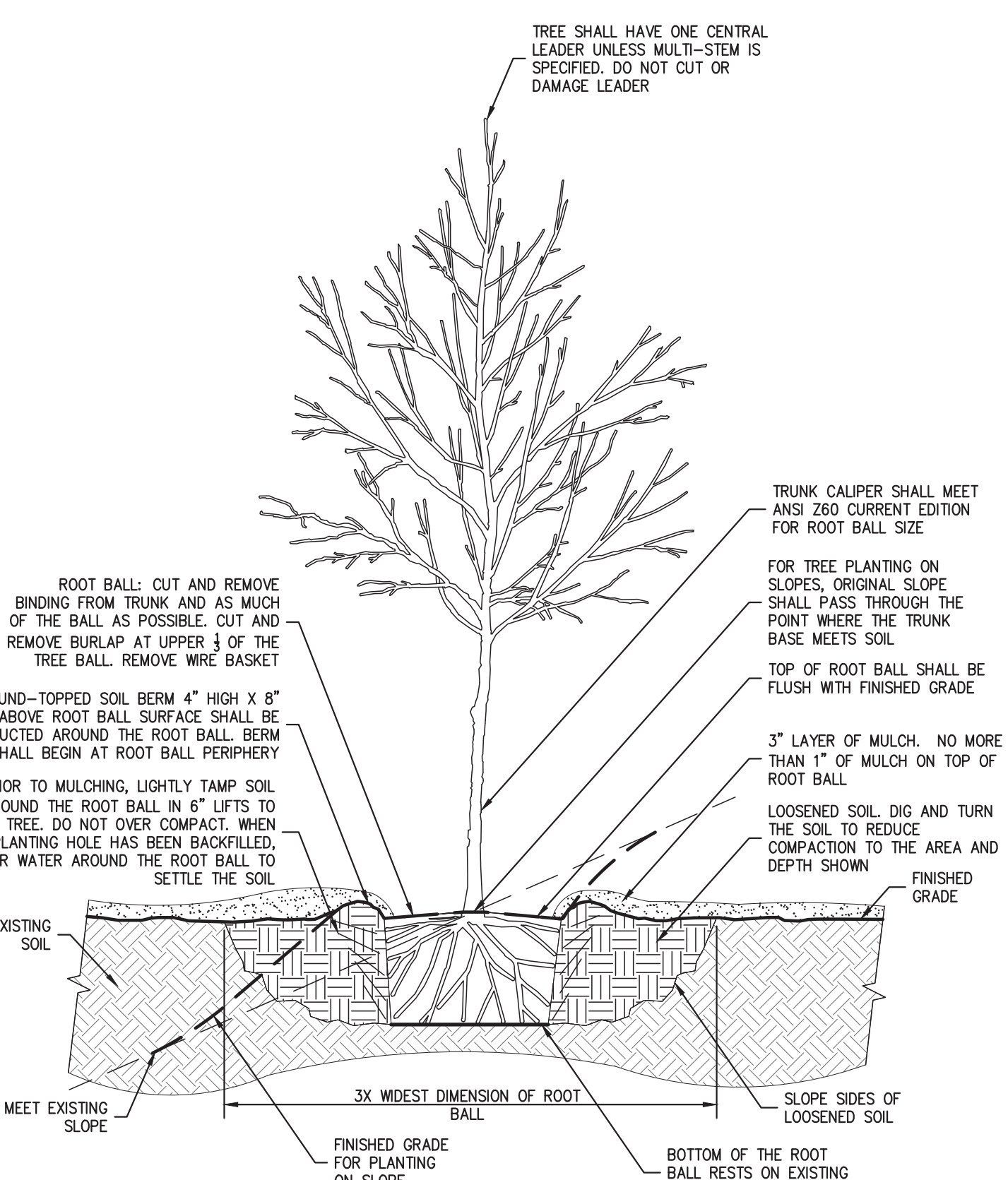
6



**NOTE:**  
1. COLOR OF PAINT SHALL BE WHITE

**90° PARKING**  
(SINGLE STRIPING-PAINTED END)

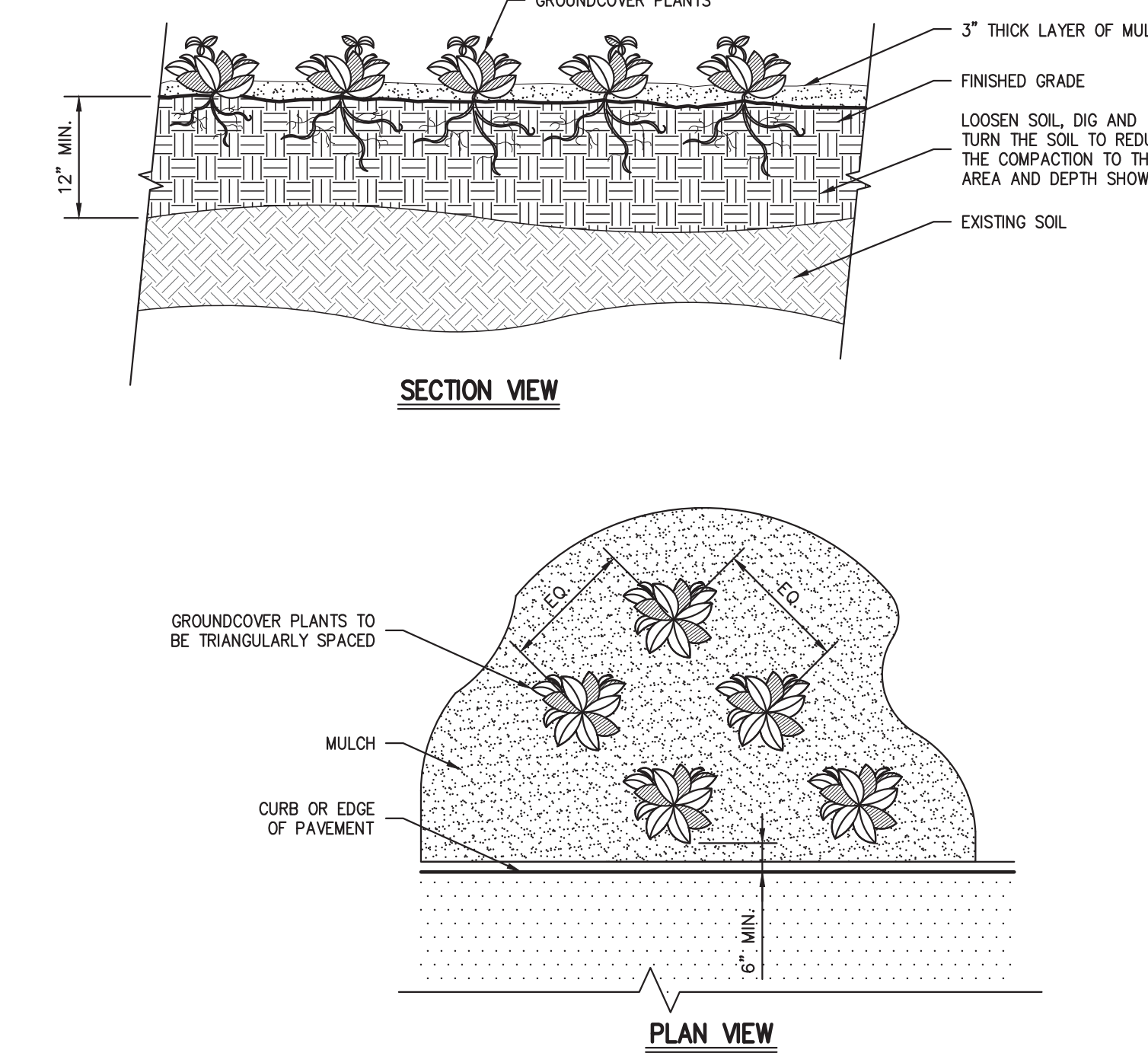
7



**NOTES:**  
1. ALL PLANTING BEDS SHALL BE FREE OF WEEDS AND GRASS PRIOR TO AND FOLLOWING INSTALLATION OF PLANTS.  
2. PLANTS IN CONTAINERS MUST HAVE THE FIBROUS ROOTS PULLED APART.  
3. PROPOSED PLANT MATERIAL SHALL BEAR THE SAME RELATION TO FINISHED GRADE AS IT BORE TO PREVIOUS EXISTING GRADE.  
4. SEE TREE STAKING DETAIL IF STAKING IS REQUIRED.

**TREE PLANTING**  
(DECIDUOUS AND EVERGREEN)

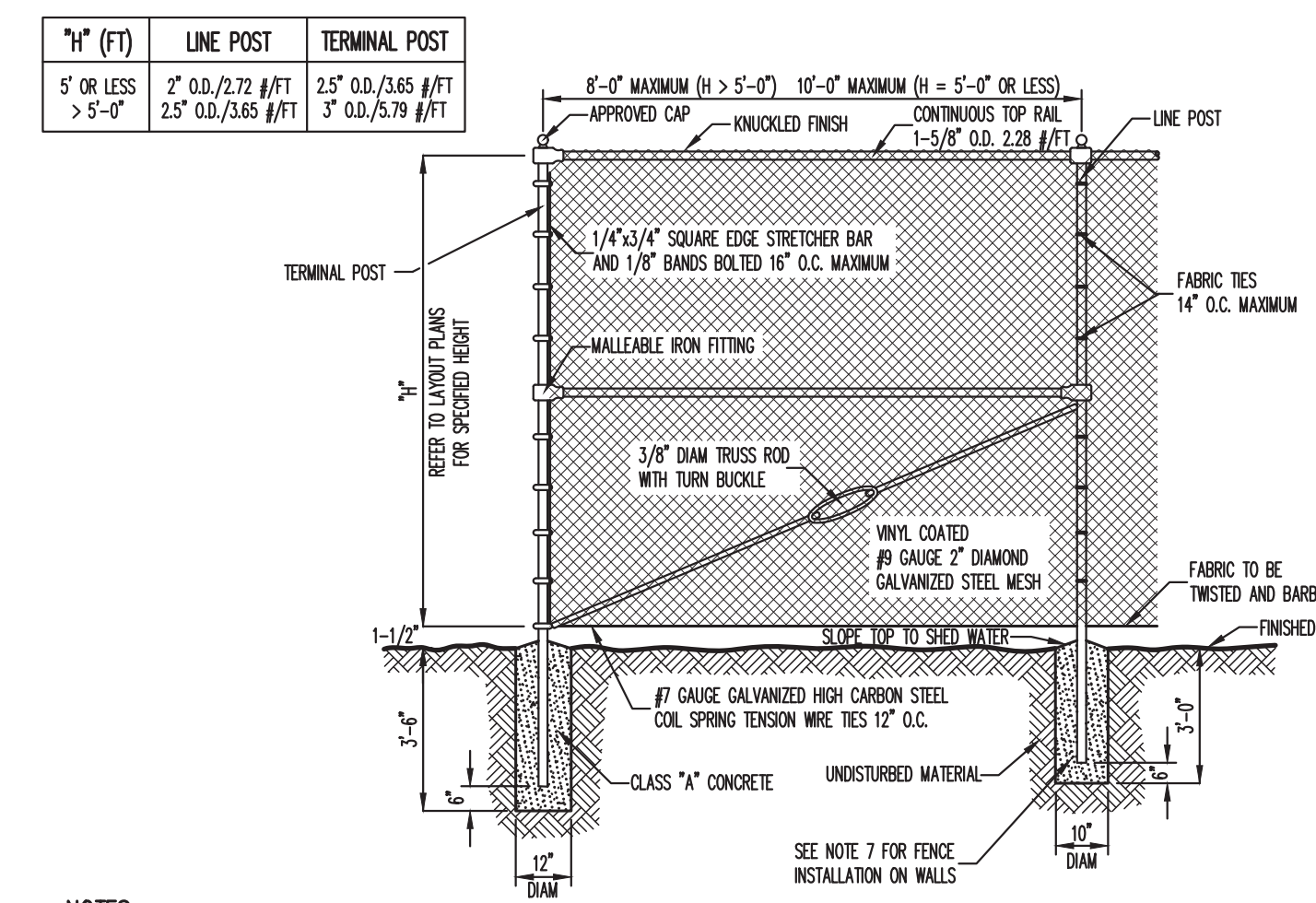
8



**NOTES:**  
1. SEE PLANTING PLAN FOR GROUNDCOVER SPECIES, SIZE, AND SPACING DIMENSION.  
2. SETTLE SOIL AROUND ROOT BALL OF EACH GROUNDCOVER PLANT PRIOR TO MULCHING.  
3. ALL PLANTING BEDS SHALL BE FREE OF WEEDS AND GRASS PRIOR TO AND FOLLOWING INSTALLATION OF PLANTS.  
4. PLANTS IN CONTAINERS MUST HAVE THE FIBROUS ROOTS PULLED APART.  
5. PROPOSED PLANT MATERIAL SHALL BEAR THE SAME RELATION TO FINISHED GRADE AS IT BORE TO PREVIOUS EXISTING GRADE.

**GROUNDCOVER**

9



**NOTES:**  
1. ALL POSTS, RAILS, FABRIC AND ACCESSORIES SHALL BE VINYL COATED. COLOR OF VINYL COATING SHALL BE BLACK AND FITTED WITH PRIVACY SLATS.  
2. POST AND RAILS SHALL BE STANDARD FULL HEIGHT VINYL COATED GALVANIZED SCHEDULE 40 PIPE MANUFACTURED AND GALVANIZED IN ACCORDANCE WITH ASTM A-120. ALL MATERIALS SHALL BE NEW AND FIRST CLASS AND SHALL NOT INCLUDE RECONDITIONED OR REROLLED PIPE.  
3. FITTINGS SHALL BE VINYL COATED MALLEABLE IRON FITTINGS CONFORMING TO THE REQUIREMENTS OF ASTM A-47 GALVANIZED IN ACCORDANCE WITH ASTM A-153.  
4. FABRIC SHALL BE 3 GAUGE GALVANIZED STEEL WHICH SHALL BE VINYL CLAD IN CONFORMANCE WITH THE REQUIREMENTS OF AASHTO M-181, TYPE B. VINYL COATING SHALL BE FIRMLY AND CONTINUOUSLY EXTRUSION BONDED TO THE GALVANIZED STEEL WIRE. TOP SELVAGE SHALL HAVE KNOCKED FINISH.  
5. TENSION WIRE SHALL BE VINYL COATED 7 GAUGE MEETING THE REQUIREMENTS OF ASTM A-641 AS MODIFIED HEREIN. THE TORSION STRENGTH SHALL BE AT LEAST 60,000 PSI WITH A GALVANIZED COATING OF NOT LESS THAN 0.7 OZ. PER SQUARE FOOT.  
6. FABRIC TIES SHALL BE MINIMUM 9 GAUGE VINYL COATED GALVANIZED STEEL OR ALUMINUM. MINIMUM SPACING SHALL BE AS FOLLOWS:  
A. 14\"/>

**CHAIN LINK FENCE**  
(VINYL COATED WITH PRIVACY SLATS)

10

NOT FOR CONSTRUCTION

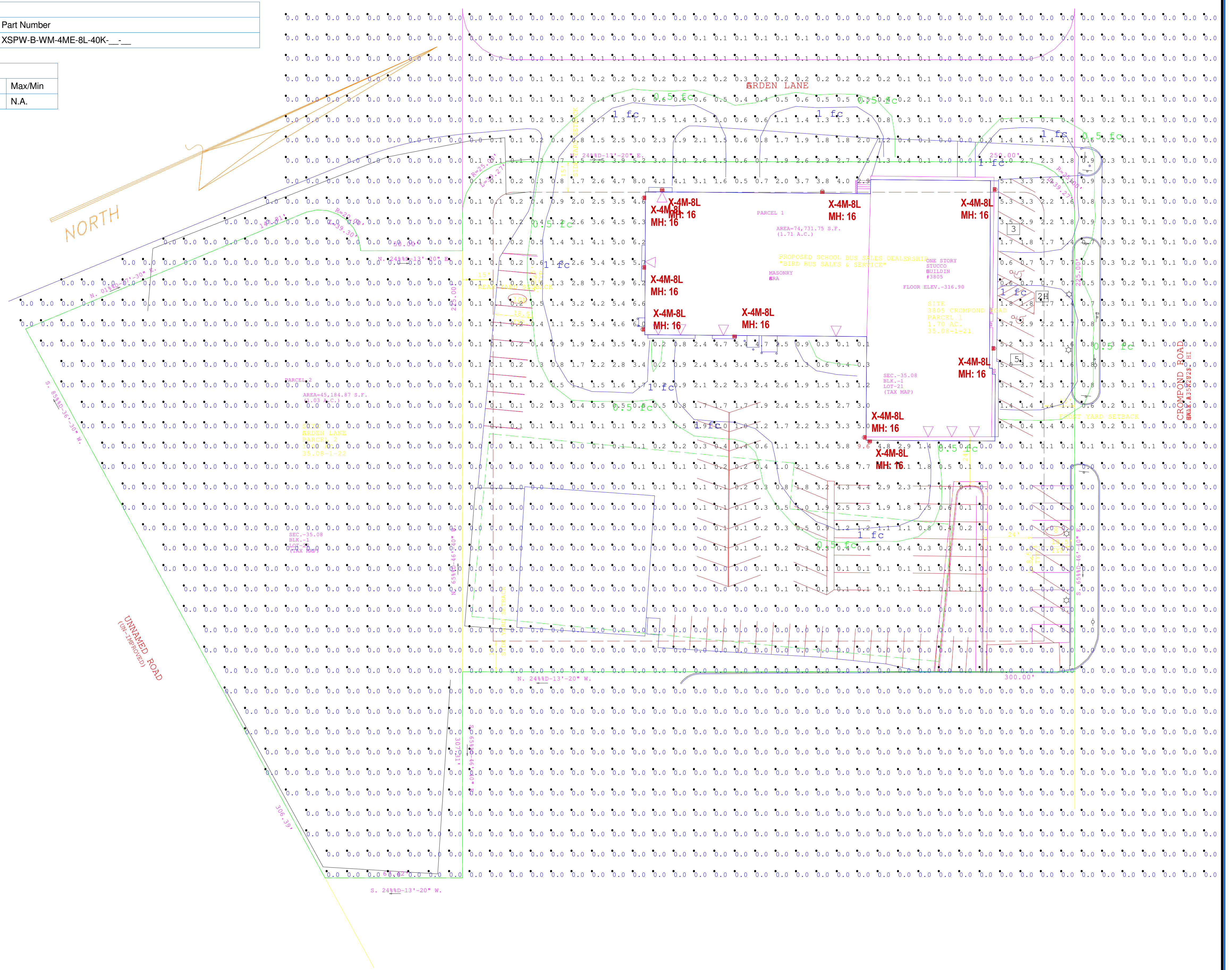
APPLICANT: BIRD BUS SALES  
 1 WAREHOUSE LANE  
 ELMSFORD, NY 10523  
 OWNER: CROMPOD REALTY, LLC  
 3805 CROMPOD ROAD  
 YORKTOWN HEIGHTS, NY 10598  
 www.jmcpllc.com  
 JMC Planning, Engineering, Landscape Architecture & Land Surveying, PLLC  
 JMC Site Development Consultants, LLC  
 John Meyer Consulting, Inc.  
 120 BEDFORD ROAD • ARTHUR, NY 10514  
 voice 914.273.6225 • fax 914.273.2102

Client	PD	Approved	JAR
Scale	NOT TO SCALE		
Date	09/10/2021		
Project No.	21005		
2006 - DEMS	C-900		
Drawing No.	C-900		

Luminaire Schedule							
Symbol	Qty	Label	Arrangement	LMF	Lum. Lumens	Lum. Watts	Part Number
	10	X-4M-8L	SINGLE	1.000	8475	72	XSPW-B-WM-4ME-8L-40K-_-_-

Calculation Summary 1.00 LLF						
Label	Units	Avg	Max	Min	Avg/Min	Max/Min
CalcPts_1	Fc	0.34	9.6	0.0	N.A.	N.A.

\*\*\* CUSTOMER TO VERIFY ORDERING INFORMATION AND CATALOGUE NUMBER PRIOR TO PLACING ORDER \*\*\*



# XSP Series

XSPW™ LED Wall Mount Luminaire featuring Cree TrueWhite® Technology

Rev. Date: VersionB V4 02/25/2020

## Product Description

The XSPW™ LED wall mount luminaire has a slim, low profile design intended for outdoor wall mounted applications. The rugged lightweight aluminum housing and mounting box are designed for installation over standard single gang J-Boxes and mud ring single gang J-Boxes. The luminaire allows for through-wired or conduit entry from the top, bottom, sides and rear. The housing design is intended specifically for LED technology including a weathertight LED driver compartment and thermal management. Optic design features industry-leading NanoOptic® Precision Delivery Grid™ system in multiple distributions.

**Applications:** General area and security lighting

## Performance Summary

NanoOptic® Precision Delivery Grid™ optic

Assembled in the U.S.A. of U.S. and imported parts

**CRI:** Minimum 70 CRI (3000K, 4000K & 5700K); 90 CRI (5000K)

**CCT:** 3000K, 4000K, 5000K, 5700K

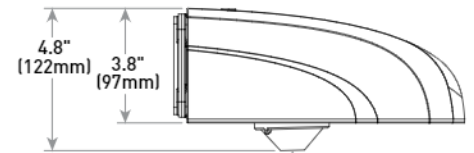
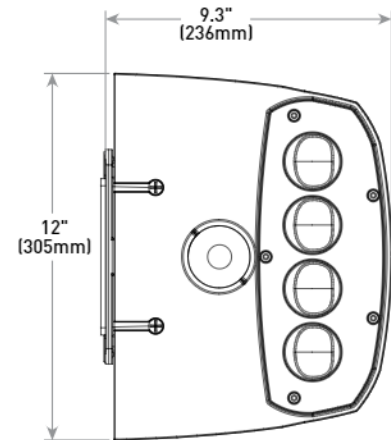
**Limited Warranty\*:** 10 years on luminaire/10 years on Colorfast DeltaGuard® finish

\* See <http://creelighting.com/warranty> for warranty terms

## Accessories

Field-Installed	
<b>Beauty Plate</b> WM-PLT12** - 12" (305mm) Square WM-PLT14** - 14" (356mm) Square - Covers holes left by incumbent wall packs	<b>Hand-Held Remote</b> XA-SENSREM - For successful implementation of the programmable multi-level option, a minimum of one hand-held remote is required

\*\* Must specify color



Multi-Level Sensor location (ordered as an option)

Lumen Package	Weight
2L, 4L, 6L	11.0 lbs. (5.0kg)
8L	11.8 lbs. (5.4kg)

## Ordering Information

Example: XSPW-B-WM-2ME-2L-30K-UL-BK

XSPW	B	WM						
Product	Version	Mounting	Optic	Lumen Package*	CCT	Voltage	Color Options	Options
XSPW	B	WM Wall	2ME Type II Medium 3ME Type III Medium 4ME Type IV Medium	2L 2,490 lumens 4L 4,270 lumens 6L 6,100 lumens 8L 8,475 lumens	30K 3000K - 70 CRI 40K 4000K - 70 CRI 50K 5000K - 90 CRI 57K 5700K - 70 CRI	UL Universal 120-277V UH Universal 347-480V 34 347V - For use with P option only	BK Black BZ Bronze SV Silver WH White	ML <b>Multi-Level</b> - Refer to ML spec sheet for details - Available with UL voltage only P <b>Button Photocell</b> - Not available with ML or PML options - Available with UL and 34 voltages only PML <b>Programmable Multi-Level</b> - Refer to PML spec sheet for details - Available with UL voltage only

\* Lumen Package selection codes identify approximate light output only. Actual lumen output levels may vary depending on CCT and optic selection. Refer to Initial Delivered Lumen tables for specific lumen values



**CREE LIGHTING**

US: [creelighting.com](http://creelighting.com) (800) 236-6800

Canada: [creelighting-canada.com](http://creelighting-canada.com) (800) 473-1234

**Product Specifications**

**CREE TRUEWHITE® TECHNOLOGY**

A revolutionary way to generate high-quality white light, Cree TrueWhite® Technology is a patented approach that delivers an exclusive combination of 90+ CRI, beautiful light characteristics and lifelong color consistency, all while maintaining high luminous efficacy – a true no compromise solution.

**CONSTRUCTION & MATERIALS**

- Slim, low profile design
- Luminaire housing specifically designed for LED applications with advanced LED thermal management and driver
- Luminaire mounting box designed for installation over standard single gang J-Boxes and mud ring single gang J-Boxes
- Luminaire can also be direct mounted to a wall and surface wired
- Secures to wall with four 3/16" (5mm) screws (by others)
- Conduit entry from top, bottom, sides, and rear
- Exclusive Colorfast DeltaGuard® finish features an E-coat epoxy primer with an ultra-durable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Silver, black, white and bronze are available
- **Weight:** 2L, 4L, 6L - 11.0 lbs. (5.0kg); 8L - 11.8 lbs. (5.4kg)

**ELECTRICAL SYSTEM**

- **Input Voltage:** 120-277V or 347-480V, 50/60Hz
- **Power Factor:** > 0.9 at full load
- **Total Harmonic Distortion:** < 20% at full load
- Integral 10kV surge suppression protection standard
- When code dictates fusing, a slow blow fuse or type C/D breaker should be used to address inrush current
- Designed with 0-10V dimming capabilities. Controls by others
- **10V Source Current:** 0.15 mA
- Refer to [Dimming spec sheet](#) for details
- **Operating Temperature Range:** -40°C - +50°C (-40°F - +122°F)

**REGULATORY & VOLUNTARY QUALIFICATIONS**

- cULus Listed
- Suitable for wet locations
- Designed for downlight applications only
- Enclosure rated IP66 per IEC 60598
- ANSI C136.2 10kV surge protection, tested in accordance with IEEE/ANSI C62.41.2
- Meets FCC Part 15, Subpart B, Class A limits for conducted and radiated emissions
- Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117
- Meets Buy American requirements within ARRA
- RoHS compliant. Consult factory for additional details
- Dark Sky Friendly, IDA Approved when ordered with 30K CCT. Please refer to <https://www.darksky.org/our-work/lighting/lighting-for-industry/fsa/fsa-products/> for most current information
- DLC and DLC Premium qualified versions available. Please refer to <https://www.designlights.org/search/> for most current information
- **CA RESIDENTS WARNING:** Cancer and Reproductive Harm – [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov)

Electrical Data*									
Lumen Package	CCT/CRI	System Watts 120-480V	Efficacy	Total Current (A)					
				120V	208V	240V	277V	347V	480V
2L	30K/70 CRI	20	125	0.17	0.10	0.08	0.07	0.06	0.05
	40K/70 CRI	19	131	0.16	0.09	0.08	0.07	0.06	0.04
	50K/90 CRI	24	104	0.20	0.11	0.10	0.08	0.07	0.05
	57K/70 CRI	19	131	0.16	0.09	0.08	0.07	0.06	0.04
4L	30K/70 CRI	33	129	0.28	0.16	0.14	0.13	0.10	0.07
	40K/70 CRI	31	138	0.27	0.15	0.13	0.12	0.09	0.07
	50K/90 CRI	40	107	0.34	0.20	0.17	0.16	0.12	0.09
	57K/70 CRI	31	138	0.26	0.15	0.13	0.12	0.09	0.07
6L	30K/70 CRI	51	120	0.43	0.25	0.22	0.19	0.14	0.11
	40K/70 CRI	47	130	0.40	0.23	0.20	0.18	0.14	0.10
	50K/90 CRI	60	102	0.51	0.29	0.25	0.23	0.17	0.13
	57K/70 CRI	47	130	0.40	0.23	0.20	0.17	0.14	0.10
8L	30K/70 CRI	77	110	0.65	0.38	0.32	0.28	0.22	0.16
	40K/70 CRI	72	118	0.61	0.35	0.31	0.27	0.21	0.15
	50K/90 CRI	78	89	0.66	0.37	0.33	0.29	0.22	0.16
	57K/70 CRI	71	119	0.60	0.35	0.30	0.26	0.20	0.15

\* Electrical data at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-277V or 347-480V +/- 10%

XSPW Series Ambient Adjusted Lumen Maintenance Factors <sup>1</sup>					
Ambient	Initial LMF	25K hr Reported <sup>2</sup> LMF	50K hr Reported <sup>2</sup> LMF	75K hr Estimated <sup>3</sup> LMF	100K hr Estimated <sup>3</sup> LMF
5°C (41°F)	1.03	0.98	0.96	0.94	0.92
10°C (50°F)	1.03	0.98	0.96	0.94	0.92
15°C (59°F)	1.02	0.97	0.95	0.93	0.92
20°C (68°F)	1.01	0.96	0.95	0.93	0.91
25°C (77°F)	1.00	0.96	0.94	0.92	0.90
30°C (86°F)	0.99	0.95	0.93	0.91	0.89
35°C (95°F)	0.98	0.94	0.92	0.90	0.88
40°C (104°F)	0.97	0.93	0.91	0.89	0.87

<sup>1</sup> Lumen maintenance values at 25°C (77°F) are calculated per IES TM-21 based on IES LM-80 report data for the LED package and in-situ luminaire testing. Luminaire ambient temperature factors (LATF) have been applied to all lumen maintenance factors. Please refer to the [Temperature Zone Reference Document](#) for outdoor average nighttime ambient conditions.

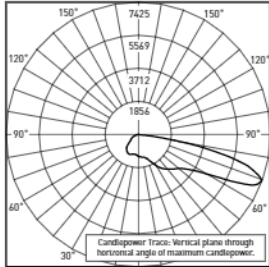
<sup>2</sup> In accordance with IES TM-21, Reported values represent interpolated values based on time durations that are up to 6x the tested duration in the IES LM-80 report for the LED.

<sup>3</sup> Estimated values are calculated and represent time durations that exceed the 6x test duration of the LED.

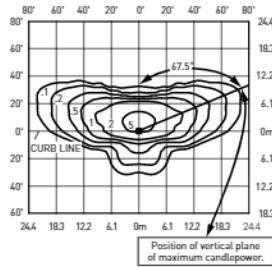
**Photometry**

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult: <http://creelighting.com/products/outdoor/wall-mount/xsp-series-wall>

**2ME**



CESTL Test Report #: PL12798-001A  
XSPW-B-\*\*-2ME-8L-40K-UL  
Initial Delivered Lumens: 8,622

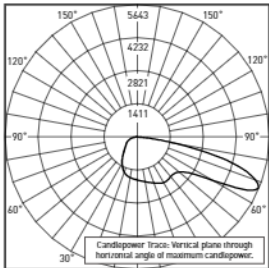


XSPW-B-\*\*-2ME-8L-40K-UL  
Mounting Height: 15' (4.6) A.F.G.  
Initial Delivered Lumens: 8,475  
Initial FC at grade

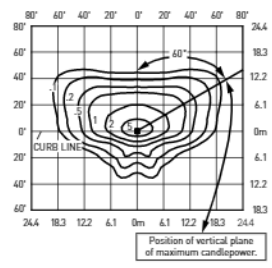
Type II Medium Distribution								
Lumen Package	3000K		4000K		5000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
2L	2,490	B1 U0 G1	2,490	B1 U0 G1	2,490	B1 U0 G1	2,490	B1 U0 G1
4L	4,270	B1 U0 G1	4,270	B1 U0 G1	4,270	B1 U0 G1	4,270	B1 U0 G1
6L	6,100	B1 U0 G2	6,100	B1 U0 G2	6,100	B1 U0 G2	6,100	B1 U0 G2
8L	8,475	B2 U0 G2	8,475	B2 U0 G2	6,925	B1 U0 G2	8,475	B2 U0 G2

\* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens  
\*\* For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>

**3ME**



CESTL Test Report #: PL12366-007A  
XSPW-B-\*\*-3ME-8L-40K-UL  
Initial Delivered Lumens: 8,543



XSPW-B-\*\*-3ME-8L-40K-UL  
Mounting Height: 15' (4.6m) A.F.G.  
Initial Delivered Lumens: 8,475  
Initial FC at grade

Type III Medium Distribution								
Lumen Package	3000K		4000K		5000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
2L	2,490	B1 U0 G1	2,490	B1 U0 G1	2,490	B1 U0 G1	2,490	B1 U0 G1
4L	4,270	B1 U0 G1	4,270	B1 U0 G1	4,270	B1 U0 G1	4,270	B1 U0 G1
6L	6,100	B1 U0 G2	6,100	B1 U0 G2	6,100	B1 U0 G2	6,100	B1 U0 G2
8L	8,475	B2 U0 G2	8,475	B2 U0 G2	6,925	B1 U0 G2	8,475	B2 U0 G2

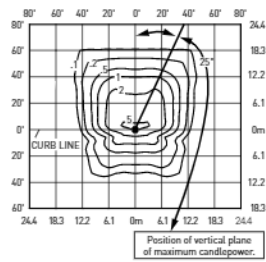
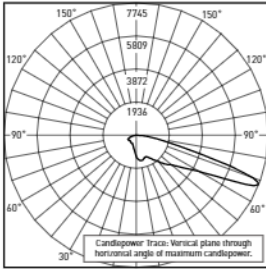
\* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens  
\*\* For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>

# XSPW™ LED Wall Mount Luminaire

## Photometry

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult: <http://creelighting.com/products/outdoor/wall-mount/xsp-series-wall>

### 4ME



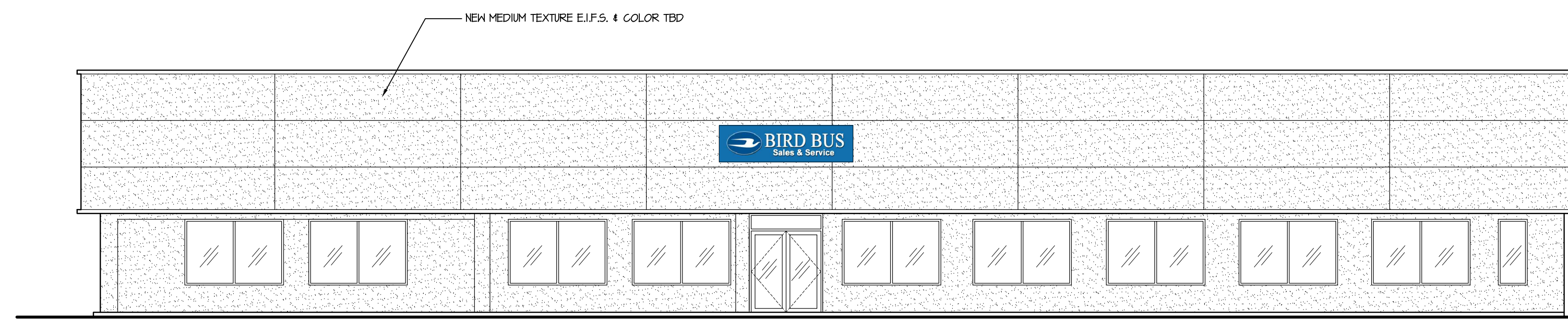
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XSPW-B-\*\*-4ME-8L-40K-UL  
Initial Delivered Lumens: 8,763

XSPW-B-\*\*-4ME-8L-40K-UL  
Mounting Height: 15' (4.6m) A.F.G.  
Initial Delivered Lumens: 8,475  
Initial FC at grade

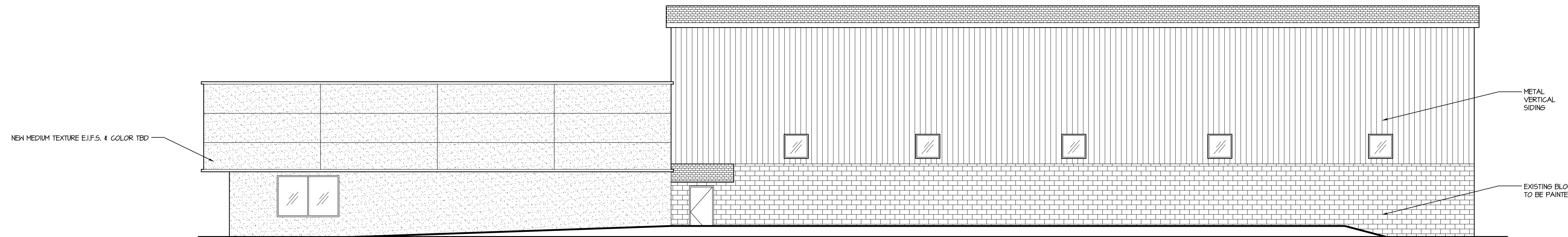
Type IV Medium Distribution								
Lumen Package	3000K		4000K		5000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
2L	2,490	B1 U0 G1	2,490	B1 U0 G1	2,490	B1 U0 G1	2,490	B1 U0 G1
4L	4,270	B1 U0 G1	4,270	B1 U0 G1	4,270	B1 U0 G1	4,270	B1 U0 G1
6L	6,100	B1 U0 G2	6,100	B1 U0 G2	6,100	B1 U0 G2	6,100	B1 U0 G2
8L	8,475	B1 U0 G2	8,475	B1 U0 G2	6,925	B1 U0 G2	8,475	B1 U0 G2

\* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

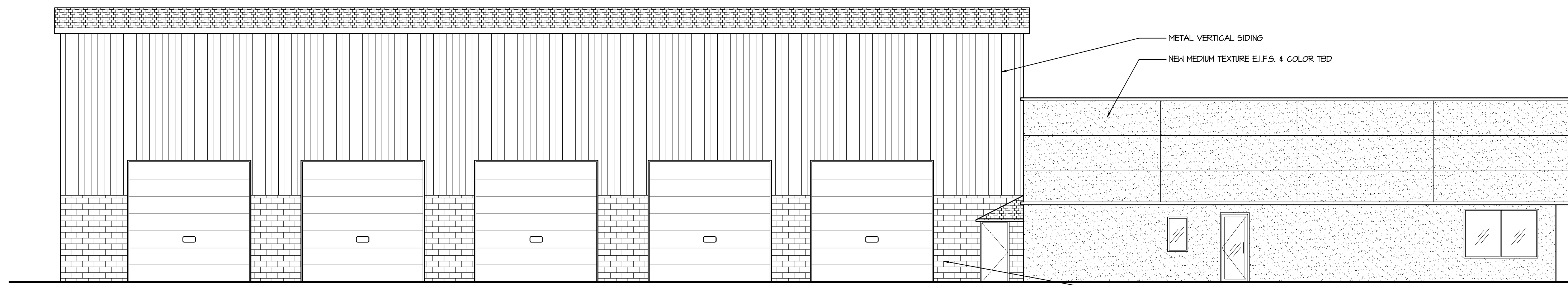
\*\* For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>



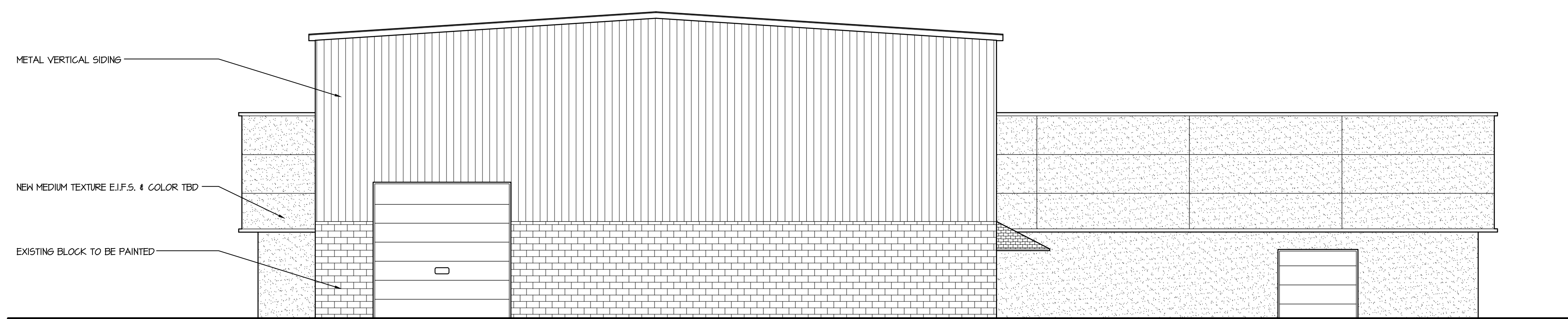
1 FRONT ELEVATION  
SCALE: 1/8" = 1'-0"



2 RIGHT SIDE ELEVATION  
SCALE: 1/8" = 1'-0"



3 LEFT SIDE ELEVATION  
SCALE: 1/8" = 1'-0"



1 FRONT ELEVATION  
SCALE: 1/8" = 1'-0"

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REV. DUE TO ARS COMMENTS FOR CLIENT REVIEW	10.14.21 10.01.21
REVISION	DATE

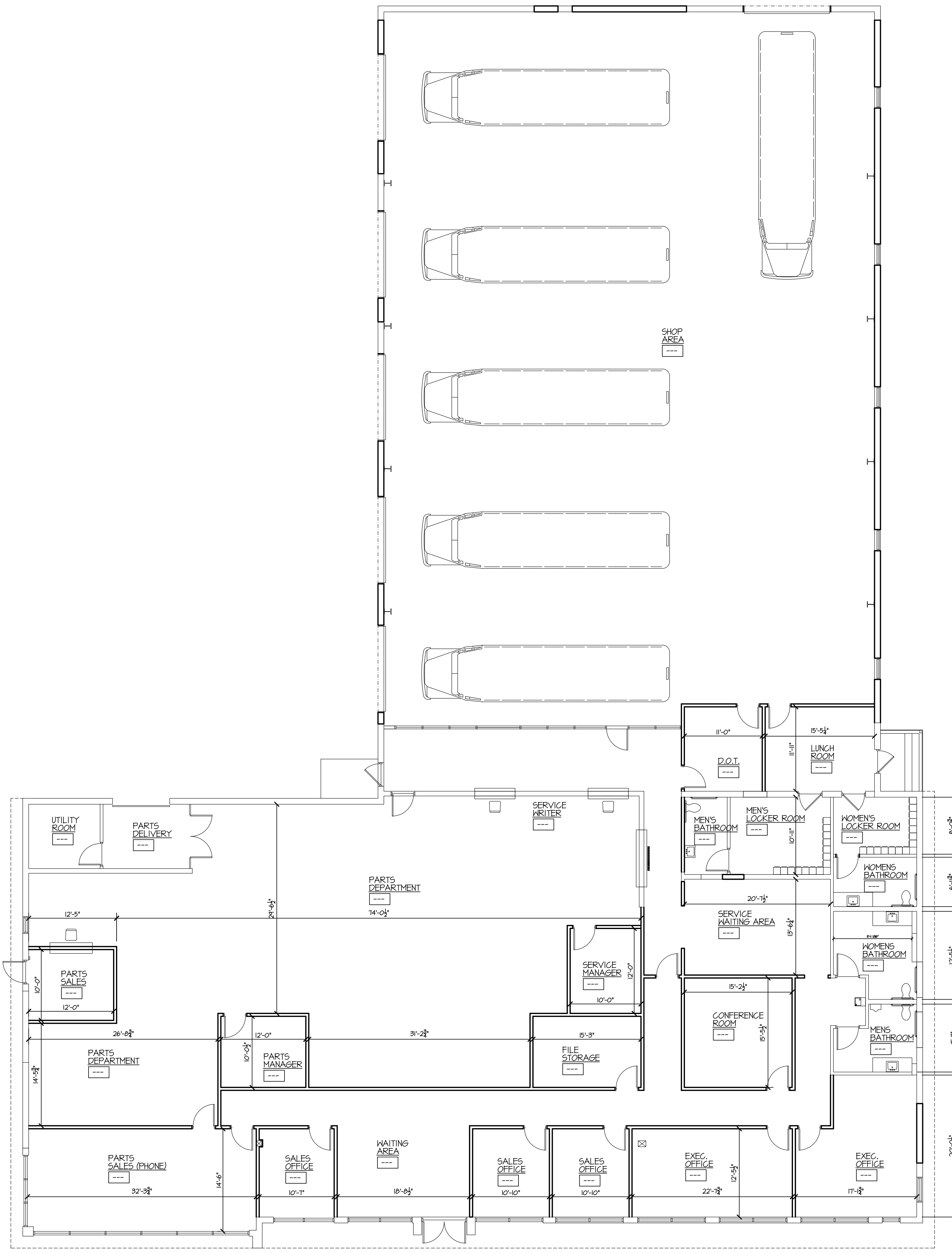


**Joseph R. Crocco architects**  
 new jersey architects  
 4 macdonald avenue, suite 5  
 annonk, new york 10504  
 (914) 273-2774 fax (914) 273-2776

**PROPOSED  
 ATERATION  
 FOR:  
 BIRD BUS**  
 3805 CROMPOND ROAD  
 CORTLANDT MANOR, NY

Dwg. Name: **ELEVATIONS**

Project No: 21014  
 Date: APRIL 19, 2021  
 Sheet Number: **A2.1**



1 FLOOR PLAN  
 ALL SCALE: 1/8" = 1'-0"

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REV. DUE TO ARB COMMENTS	10.14.21
FOR CLIENT REVIEW	09.10.21
FOR CLIENT REVIEW	09.03.21
FOR CLIENT REVIEW	06.04.21
FOR CLIENT REVIEW	05.15.21
FOR CLIENT REVIEW	05.06.21
FOR CLIENT REVIEW	04.29.21

REVISION	DATE
----------	------



**Joseph R. Crocco architects**  
 new york connecticut new jersey massachusetts  
 4 medford avenue, suite 5  
 ammonk, new york 10504  
 (914) 273-2774 fax (914) 273-2776

**PROPOSED ALTERATION FOR: BIRD BUS**  
 3805 CROMPOND ROAD  
 CORTLANDT MANOR, NY

Dwg. Name: **PROPOSED FLOOR PLANS**

Project No: 21014  
 Date: APRIL 19, 2021  
 Sheet Number: **A1.1**





**EXISTING BUILDING**





**EXISTING BUILDING**





**EXISTING BUILDING**



**BIRD BUS FACILITY ON LONG ISLAND**





**BIRD BUS FACILITY ON LONG ISLAND**





**BIRD BUS FACILITY ON LONG ISLAND**





**BIRD BUS FACILITY ON LONG ISLAND**





**BIRD BUS FACILITY ON LONG ISLAND**





SEP 10 2021

**TOWN OF YORKTOWN  
PLANNING BOARD**

TOWN OF YORKTOWN

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

**APPLICATION FOR SITE PLAN APPROVAL**

Date 09/08/2021

1. Name of Project: Bird Bus Sales & Service

2. Tax Map Designation (Section, Block, Lot) 38.05-1-21 35.08-1-21  
38.05-1-22 35.08-1-22

3. Zone: C-4 Total Acreage: 2.74

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

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

The applicant proposes to reoccupy the property with a school bus dealership. The applicant proposes several architectural improvements including interior and façade renovations for the dealership building in addition to raising the roof of the garage building as the current height cannot accommodate school buses. The front of the property will be utilized for customer parking, and the rear of the property will be used for employee parking and the storage of school buses, with a maximum of 48 vehicles contemplated to be stored on the property. A landscaped area is proposed which will be utilized for landscaping / screening of the vehicle storage areas.

6. Contact Person - CHOOSE ONLY ONE:

- Applicant  Owner  Architect  Wetland Scientist  
 Attorney  Engineer  Surveyor  Landscape Architect

7. Applicant

Name Robert Reichenbach, Vice President  
Firm Bird Bus Sales & Service  
Address 1 Warehouse Lane, Elmsford, NY 10523  
Phone (516) 233-6199  
Fax \_\_\_\_\_  
Email Robert@BirdBusSales.com

8. Owner of Record

Name \_\_\_\_\_  
Firm Crompond Realty, LLC  
Address 3805 Crompond Road, Yorktown Heights, NY 10598  
Phone \_\_\_\_\_  
Fax \_\_\_\_\_  
Email \_\_\_\_\_

**9. Attorney**

Name Darius Chafizadeh  
Firm Harris Beach PLLC  
Address 445 Hamilton Avenue, Suite 1206, White Plains, NY 10601  
Phone (914) 683-1200  
Fax (914) 683-1210  
Email DChafizadeh@HarrisBeach.com

**10. Engineer**

Name Diego Villareale, PE  
Firm JMC Planning Engineering Landscape Architecture & Land Surveying, PLLC  
Address 120 Bedford Road, Armonk, NY 10504  
Phone (914) 273-5225  
Fax (914) 273-2102  
Email DVillareale@JMCPLL.com  
Lic. No. 084546

**11. Surveyor**

Name Stephen F. Hoppe, LS  
Firm Stephen F. Hoppe, L.S. LLC  
Address 111 NY-303, Tappan, NY 10983  
Phone (845) 359-5050  
Fax (845) 230-6610  
Email NewYorkSurveyor@AOL.com  
Lic. No. 50539

**12. Architect**

Name Joseph R. Crocco, RA  
Firm Joseph R. Crocco Architects  
Address 4 MacDonald Avenue #5, Armonk, NY 10504  
Phone (914) 273-2774  
Fax \_\_\_\_\_  
Email Joe@JRCArchitects.com  
Lic. No. \_\_\_\_\_

**13. Wetland Scientist/Specialist**

Name \_\_\_\_\_  
Firm \_\_\_\_\_  
Address \_\_\_\_\_  
Phone \_\_\_\_\_  
Fax \_\_\_\_\_  
Email \_\_\_\_\_

**14. Landscape Architect**

Name Paul R. Sysak, RLA, ASLA  
Firm JMC Planning, Engineering, Landscape Architecture & Surveying, PLLC  
Address 120 Bedford Rd, Armonk, NY 10504  
Phone (914) 273-5225  
Fax (914) 273-2102  
Email PSysak@JMCPLLC.com  
Lic. No. 002181-1

15. Is this project within 500 feet of the Town line?  Yes  No  
16. Is this project within 500 feet of the Putnam County line?  Yes  No  
17. Is this project within the Sustainable Development Study Area?  Yes  No

**18. Is this project within 500 feet of:**

- The right-of-way of any existing or proposed state or county road?  Yes  No  
The boundary of an existing or proposed state or county park or any state or county recreation area?  Yes  No  
The boundary of state or county-owned land on which a public building/ institution is located?  Yes  No  
An existing or proposed county drainage line?  Yes  No  
The boundary of a farm located in an agricultural district?  Yes  No

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

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

- Wetland Permit  
 Stormwater Permit  
 Tree Permit  
 Planning Board special permit: New and/or used car automobile sales  
 Town Board variance or approval: \_\_\_\_\_  
 Zoning Board of Appeals variance or special permit: \_\_\_\_\_

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

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

22. This parcel is in the following districts:

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

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

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

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

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

<p>-----</p> <p><b>Applicant</b></p> <p><u>Robert Reichenbach</u></p> <p>NAME (PLEASE PRINT)</p> <p><u>Robert Reichenbach</u></p> <p>SIGNATURE</p> <p><u>9/8/2021</u></p> <p>DATE</p>	<p><b>Owner of Record</b></p> <p>_____</p> <p>NAME (PLEASE PRINT)</p> <p>_____</p> <p>SIGNATURE</p> <p>_____</p> <p>DATE</p>
---	--

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

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

**REFER TO AFFIDAVITS ON THE FOLLOWING PAGES**

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

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

22. This parcel is in the following districts:

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

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

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<p>-----</p> <p><b>Applicant</b></p> <p>_____</p> <p>NAME (PLEASE PRINT)</p> <p>_____</p> <p>SIGNATURE</p> <p>_____</p> <p>DATE</p>	<p><b>Owner of Record</b></p> <p><i>Drew Ficon</i></p> <p>_____</p> <p>NAME (PLEASE PRINT)</p> <p><i>Drew Ficon</i></p> <p>_____</p> <p>SIGNATURE</p> <p><i>9/8/21</i></p> <p>_____</p> <p>DATE</p>
---	---

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

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

**REFER TO AFFIDAVITS ON THE FOLLOWING PAGES**

ONE OF THE FOLLOWING AFFIDAVITS MUST BE COMPLETED

\*\*\*\*\*

AFFIDAVIT TO BE COMPLETED BY OWNER, OTHER THAN CORPORATION

STATE OF NEW YORK; COUNTY OF WESTCHESTER SS.:

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

Sworn before me this \_\_\_\_\_ date of \_\_\_\_\_, 20\_\_

\_\_\_\_\_  
Notary Public

\*\*\*\*\*

AFFIDAVIT TO BE COMPLETED BY CORPORATION OWNER

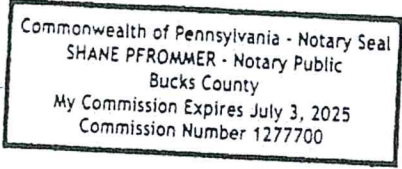
STATE OF NEW YORK; COUNTY OF WESTCHESTER SS.:

Drew Picon, being duly sworn, deposes and says that he resides at 35 Turtle Pt Rd in the County of Morris and State of New Jersey. That he is the owner/member of Crompton Technology LLC the corporation which is owner in fee of the property described in the foregoing application for Site Plan and that the statements contained therein are true to the best of his knowledge and belief.

[Signature]

Sworn before me this 8th date of September, 2021

[Signature]  
Notary Public



Act  
Notary  
NJ  
07961

SEP 10 2021

TOWN OF YORKTOWN

# TOWN OF YORKTOWN PLANNING BOARD

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

## SPECIAL USE PERMIT APPLICATION

If this application is not being made in conjunction with a request for site plan approval from the Planning Board, a site plan/plot plan and Short EAF must also be submitted with this application. The required fee is \$625.00 for new applications and \$312.00 for requests to renew an existing permit.

Date 09/08/2021

1. Tax Map Designation (Section, Block, Lot) 38.05-1-21, 38.05-1-22

2. Property Address 3805 Crompond Road

3. Zone: C-4 Total Acreage: 2.74

4. Indicate requested special use permit:

- §300-21(8)(a)[1] Outdoor service in commercial districts.
- §300-40 Bus passenger shelters.
- §300-54 Religious institutions, social, cultural, charitable and recreational nonprofit uses.
- §300-55 Parochial, private elementary and high schools, colleges and seminaries.
- §300-69 Valet parking at banquet halls.
- §300-71 New and/or used car automobile sales.
- §300-73.1(A)(2) Permanent seasonal outdoor sales in commercial districts.
- §300-75 Warehouse or storage in retail shopping centers.
- §300-78 Cemeteries.
- §300-79 Self-storage centers.
- §300-80 Sidewalk cafes. (outdoor dining for more than 12 seats)
- §300-81.1 Helistops.
- §300-81.2 Accessory recycling facilities.
- §300-81.4 Large-Scale Solar Power Generation Systems and Facilities
- §300-81.5 Tier 2 Battery Energy Storage Systems
- §300-238.1 Multifamily dwelling units in the Country Commercial Zone.

5. Description of proposed use (if applying for outdoor dining, indicate proposed dining area square footage and number of seats):

Proposed school bus sales dealership, classified as 'new and/or used car automobile sales' within the Zoning Code.

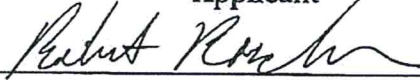
**6. Applicant**

Name Robert Reichenbach, Vice President  
Firm Bird Bus Sales & Service  
Address 1 Warehouse Lane, Elmsford, NY 10523  
Phone (516) 233-6199  
Email Robert@BirdBusSales.com

**7. Owner of Record**

Name \_\_\_\_\_  
Firm Crompond Realty, LLC  
Address 3805 Crompond Road, Yorktown Heights, NY 10598  
Phone \_\_\_\_\_  
Email \_\_\_\_\_

In the event the permit is issued, the undersigned applicant will comply with all provisions of the Code of the Town of Yorktown and all other applicable laws, codes, rules and regulations of any Federal, State or County Government, bureau or department thereof, having jurisdiction over said premises and the use to be conducted thereat.

**Applicant**  
  
\_\_\_\_\_  
SIGNATURE  
Robert Reichenbach  
\_\_\_\_\_  
PRINT NAME  
9/8/2021  
\_\_\_\_\_  
DATE

**Owner of Record**  
\_\_\_\_\_  
SIGNATURE  
\_\_\_\_\_  
PRINT NAME  
\_\_\_\_\_  
DATE

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



# Short Environmental Assessment Form

## Part 1 - Project Information

RECEIVED  
PLANNING DEPARTMENT

SEP 10 2021

TOWN OF YORKTOWN

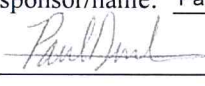
### Instructions for Completing

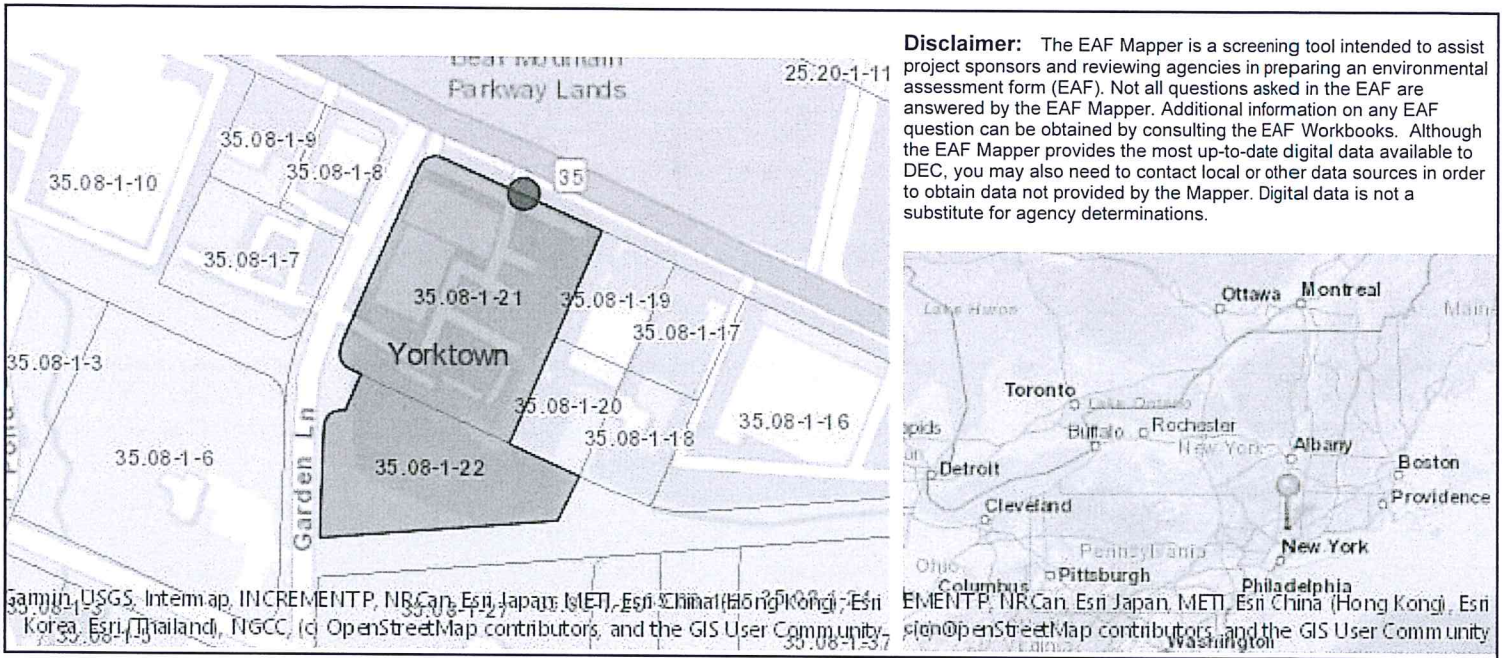
**Part 1 – Project Information.** The applicant or project sponsor is responsible for the completion of Part 1. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification. Complete Part 1 based on information currently available.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

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

<b>Part 1 – Project and Sponsor Information</b>				
Name of Action or Project: Bird Bus Sales & Service				
Project Location (describe, and attach a location map): 3805 Crompond Road, Town of Yorktown, New York				
Brief Description of Proposed Action:  The applicant proposes to reoccupy the property with a school bus dealership. The applicant proposes several architectural improvements including interior and façade renovations for the dealership building in addition to raising the roof of the garage building as the current height cannot accommodate school buses. The front of the property will be utilized for customer parking, and the rear of the property will be used for employee parking and the storage of school buses, with a maximum of 48 vehicles contemplated to be stored on the property. A landscaped area is proposed which will be utilized for landscaping / screening of the vehicle storage areas.				
Name of Applicant or Sponsor:  Bird Bus Sales		Telephone: (516) 233-6199  E-Mail: Robert@BirdBusSales.com		
Address:  1 Warehouse Lane				
City/PO: Elmsford		State: New York	Zip Code: 10523	
1. Does the proposed action only involve the legislative adoption of a plan, local law, ordinance, administrative rule, or regulation? If Yes, attach a narrative description of the intent of the proposed action and the environmental resources that may be affected in the municipality and proceed to Part 2. If no, continue to question 2.			NO <input type="checkbox"/>	YES <input type="checkbox"/>
2. Does the proposed action require a permit, approval or funding from any other government Agency? If Yes, list agency(s) name and permit or approval: Town of Yorktown Planning Board: Site Plan Approval and Special Permit Approval, Yorktown Building Department: Building Permit			NO <input type="checkbox"/>	YES <input checked="" type="checkbox"/>
3. a. Total acreage of the site of the proposed action?		_____ 2.74 acres		
b. Total acreage to be physically disturbed?		_____ 0.04 acres		
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor?		_____ 2.74 acres		
4. Check all land uses that occur on, are adjoining or near the proposed action:				
5. <input checked="" type="checkbox"/> Urban <input type="checkbox"/> Rural (non-agriculture) <input type="checkbox"/> Industrial <input checked="" type="checkbox"/> Commercial <input checked="" type="checkbox"/> Residential (suburban)				
<input checked="" type="checkbox"/> Forest <input type="checkbox"/> Agriculture <input type="checkbox"/> Aquatic <input type="checkbox"/> Other(Specify):				
<input type="checkbox"/> Parkland				

		NO	YES	N/A
5. Is the proposed action,	a. A permitted use under the zoning regulations?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	b. Consistent with the adopted comprehensive plan?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6. Is the proposed action consistent with the predominant character of the existing built or natural landscape?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	
7. Is the site of the proposed action located in, or does it adjoin, a state listed Critical Environmental Area? If Yes, identify: _____		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
8. a. Will the proposed action result in a substantial increase in traffic above present levels? b. Are public transportation services available at or near the site of the proposed action? c. Are any pedestrian accommodations or bicycle routes available on or near the site of the proposed action?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
9. Does the proposed action meet or exceed the state energy code requirements? If the proposed action will exceed requirements, describe design features and technologies: _____ _____		<input type="checkbox"/>	<input checked="" type="checkbox"/>	
10. Will the proposed action connect to an existing public/private water supply? If No, describe method for providing potable water: _____ _____		<input type="checkbox"/>	<input checked="" type="checkbox"/>	
11. Will the proposed action connect to existing wastewater utilities? If No, describe method for providing wastewater treatment: _____ _____		<input type="checkbox"/>	<input checked="" type="checkbox"/>	
12. a. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on the National or State Register of Historic Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places?  b. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
13. a. Does any portion of the site of the proposed action, or lands adjoining the proposed action, contain wetlands or other waterbodies regulated by a federal, state or local agency? *The site lies within 500' of the wetlands across Crompond Road that lie on Bear Mountain Parkway Lands.* b. Would the proposed action physically alter, or encroach into, any existing wetland or waterbody?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	*
If Yes, identify the wetland or waterbody and extent of alterations in square feet or acres: _____ _____ _____		<input checked="" type="checkbox"/>	<input type="checkbox"/>	

14. Identify the typical habitat types that occur on, or are likely to be found on the project site. Check all that apply: <input type="checkbox"/> Shoreline <input checked="" type="checkbox"/> Forest <input type="checkbox"/> Agricultural/grasslands <input type="checkbox"/> Early mid-successional <input checked="" type="checkbox"/> Wetland <input checked="" type="checkbox"/> Urban <input checked="" type="checkbox"/> Suburban		
15. Does the site of the proposed action contain any species of animal, or associated habitats, listed by the State or Federal government as threatened or endangered?	NO	YES
	<input checked="" type="checkbox"/>	<input type="checkbox"/>
16. Is the project site located in the 100-year flood plan? The site lies within Zone A, which is a Special Flood Hazard Area with no Base Flood Elevation defined. The floodplain is associated with a stream that traverses the Bear Mountain Parkway lands.	NO	YES
	<input type="checkbox"/>	<input checked="" type="checkbox"/>
17. Will the proposed action create storm water discharge, either from point or non-point sources? If Yes,  a. Will storm water discharges flow to adjacent properties?  b. Will storm water discharges be directed to established conveyance systems (runoff and storm drains)? If Yes, briefly describe:  Existing stormwater runoff from the roofs and rear parking lot is conveyed to drywells that were installed when the site was developed. A small portion of pavement in the front of the property drains to catch basins within the New York State right-of-way (Route 202).	NO	YES
	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>
18. Does the proposed action include construction or other activities that would result in the impoundment of water or other liquids (e.g., retention pond, waste lagoon, dam)? If Yes, explain the purpose and size of the impoundment:  _____	NO	YES
	<input checked="" type="checkbox"/>	<input type="checkbox"/>
19. Has the site of the proposed action or an adjoining property been the location of an active or closed solid waste management facility? If Yes, describe: _____	NO	YES
	<input checked="" type="checkbox"/>	<input type="checkbox"/>
20. Has the site of the proposed action or an adjoining property been the subject of remediation (ongoing or completed) for hazardous waste? If Yes, describe: _____	NO	YES
	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<p><b>I CERTIFY THAT THE INFORMATION PROVIDED ABOVE IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE</b></p> <p>Applicant/sponsor/name: <u>Paul J. Dumont, PE (JMC)</u> Date: <u>09/10/2021</u></p> <p>Signature: <u></u> Title: <u>Senior Designer II</u></p>		



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

# **Granite Knolls Solar Project**



Firm Mailing Book For Accountable Mail

Name and Address of Sender  
**Bergmann**  
 280 East Broad Street, Suite 200  
 Rochester, NY 14604

Check type of mail or service

<input type="checkbox"/> Adult Signature Required	<input type="checkbox"/> Priority Mail Express
<input type="checkbox"/> Adult Signature Restricted Delivery	<input type="checkbox"/> Registered Mail
<input type="checkbox"/> Certified Mail	<input type="checkbox"/> Return Receipt for Merchandise
<input type="checkbox"/> Certified Mail Restricted Delivery	<input type="checkbox"/> Signature Confirmation
<input type="checkbox"/> Collect on Delivery (COD)	<input type="checkbox"/> Signature Confirmation Restricted Delivery
<input type="checkbox"/> Insured Mail	
<input type="checkbox"/> Priority Mail	

Affix Stamp Here  
 (for additional copies of this receipt).  
 Postmark with Date of Receipt.



USPS Tracking/Article Number	Addressee (Name, Street, City, State, & ZIP Code™)	Postage	(Extra Service) Fee	Handling Charge	Actual Value if Registered	Insured Value	Due Sender if COD	ASR Fee	ASRD Fee	RD Fee	RR Fee	SC Fee	SCRD Fee	SH Fee
1.	Mira Ludevig 1770 Morris Lane Mohegan Lake NY 10547	\$0.53		Handling Charge - if Registered and over \$50,000 in value										
2. RECEIVED PLANNING DEPARTMENT OCT 13 2021	David Raciti 2896 Sherman Ct. Mohegan Lake, NY 10547	\$0.53												
3. TOWN OF YORKTOWN	John W. Daniel 1773 Morris Lane Mohegan Lake, NY 10547	\$0.53						Adult Signature Required	Adult Signature Restricted Delivery	Restricted Delivery	Return Receipt	Signature Confirmation	Signature Confirmation Restricted Delivery	
4.	Ismet Brahim 2857 Grant Ave. Mohegan Lake, NY 10547	\$0.53						Adult Signature Required	Adult Signature Restricted Delivery	Restricted Delivery	Return Receipt	Signature Confirmation	Signature Confirmation Restricted Delivery	Special Handling
5.	James Courtien 2847 Grant Ave. Mohegan Lake, NY 10547	\$0.53						Adult Signature Required	Adult Signature Restricted Delivery	Restricted Delivery	Return Receipt	Signature Confirmation	Signature Confirmation Restricted Delivery	Special Handling
6.	Burk Family Irrevocable Trust 2936 Sherman Ct. Mohegan Lake, NY 10547	\$0.53						Adult Signature Required	Adult Signature Restricted Delivery	Restricted Delivery	Return Receipt	Signature Confirmation	Signature Confirmation Restricted Delivery	
7.	Jordan Dollak 2976 Sherman Ct. Mohegan Lake, NY 10547	\$0.53						Adult Signature Required	Adult Signature Restricted Delivery	Restricted Delivery	Return Receipt	Signature Confirmation	Signature Confirmation Restricted Delivery	
8.	Dimitrios Stavroupoulos 2918 Sherman Ct. Mohegan Lake, NY 10547	\$0.53						Adult Signature Required	Adult Signature Restricted Delivery	Restricted Delivery	Return Receipt	Signature Confirmation	Signature Confirmation Restricted Delivery	
Total Number of Pieces Listed by Sender	Total Number of Pieces Received at Post Office	Postmaster, Per (Name of receiving employee)												



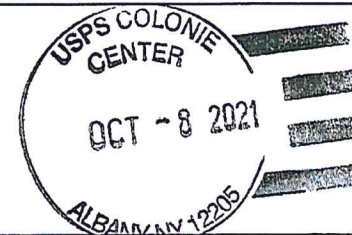
Firm Mailing Book For Accountable Mail

Name and Address of Sender  
**Bergmann**  
 280 East Broad Street, Suite 200  
 Rochester, NY 14604

Check type of mail or service

<input type="checkbox"/> Adult Signature Required	<input type="checkbox"/> Priority Mail Express
<input type="checkbox"/> Adult Signature Restricted Delivery	<input type="checkbox"/> Registered Mail
<input type="checkbox"/> Certified Mail	<input type="checkbox"/> Return Receipt for Merchandise
<input type="checkbox"/> Certified Mail Restricted Delivery	<input type="checkbox"/> Signature Confirmation
<input type="checkbox"/> Collect on Delivery (COD)	<input type="checkbox"/> Signature Confirmation Restricted Delivery
<input type="checkbox"/> Insured Mail	
<input type="checkbox"/> Priority Mail	

Affix Stamp Here  
 (for additional copies of this receipt).  
 Postmark with Date of Receipt.



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1.	Daniel Thornton 2904 Sherman Court Mohegan Lake NY 10547	\$0.53												
2.	DOT 85 NY-100 Katonah, NY 10536	\$0.53												
3.	Nianzheng Cao 2715 Deer St Mohegan Lake, NY 10547	\$0.53												
4.	Fedele Family Irrev. Trust 2699 Deer Track Ct. Mohegan Lake, NY 10547	\$0.53												
5.	Leon Vaysburd 2724 Deer St. Mohegan Lake, NY 10547	\$0.53												
6.	Neil Gross 3234 Amelia Dr. Mohegan Lake, NY 10547	\$0.53												
7.	Gerard Fatica 2837 Grant Ave. Mohegan Lake, NY 10547	\$0.53												
8.	Helen Irrevoc. Madden Trust 1652 Hanover St. Yorktown Heights, NY 10598	\$0.53												
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<input type="checkbox"/> Certified Mail	<input type="checkbox"/> Return Receipt for Merchandise
<input type="checkbox"/> Certified Mail Restricted Delivery	<input type="checkbox"/> Signature Confirmation
<input type="checkbox"/> Collect on Delivery (COD)	<input type="checkbox"/> Signature Confirmation Restricted Delivery
<input type="checkbox"/> Insured Mail	
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1.	Jaime A. Loureiro 2766 Lexington Ave. Mohegan Lake NY 10547	\$0.53												
2.	Irving J. Etal Kulick C/O Alice Kulick 150 East 58th St - FL 16 New York NY 10155	\$0.53												
3.	Sam Ferri 356 Hallock's Mill Rd Yorktown Heights, NY 10598	\$0.53												
4.	John Sipowicz 2968 Sherman Ct. Mohegan Lake, NY 10547	\$0.53												
5.	Taras Trach 2801 Deer St. Mohegan Lake, NY 10547	\$0.53												
6.	Emanuel Gutzmer 1330 Quarry Drive Mohegan Lake, NY 10547	\$0.53												
7.	Joseph Kerns 1366 Quarry Drive Mohegan Lake, NY 10547	\$0.53												
8.	Frank Fontana 1350 Quarry Drive Mohegan Lake, NY 10547	\$0.53												
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1.	Kate S. Brown 2888 Stony St. PO Box 514 Shrub Oak NY 10588	\$0.53											
2.	Duff & Phelps Algonquin Gas Transmission, LLC PO Box 2629 Addison TX 75001	\$0.53											
3.	Virgil Rev. Trust Borrelli 136 Woodland Ave. Yonkers, NY 10703	\$0.53											
4.	Joseph Sorrenti 3248 Amelia Dr. Mohegan Lake, NY 10547	\$0.53						Adult Signature Required	Adult Signature Restricted Delivery	Restricted Delivery	Return Receipt	Signature Confirmation	Signature Confirmation Restricted Delivery
5.	Weirzman Irrevocable Living Trust 3240 Amelia Dr. Mohegan Lake, NY 10547	\$0.53											Special Handling
6.	3152 Stoney St, LLC C/O General Counsel 3152 Stony St. Mohegan Lake, NY 10547	\$0.53											
7.	Richard Middleton 3028 Knollwood Ct. Mohegan Lake, NY 10547	\$0.53											Signature Confirmation
8.	3D Development LLC 2710 Lexington Ave. Mohegan Lake, NY 10547	\$0.53											

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1.	County of Westchester 148 Martine Ave. White Plains NY 10601	\$0.53										
2.	State Land Corp. 3967 Provost Ave Bronx, NY 10466	\$0.53										
3.	YB Storage Properties LLC C/O Ski Global Solutions America 2727 LBJ Freeway, Suite 80 Dallas TX 75234	\$0.53										
4.	Elizabeth Martinez 3326 Old Crompond Rd. Yorktown Heights, NY 10598	\$0.53										
5.	Nagaraj S. Rao 2633 Stony St. Mohegan Lake, NY 10547	\$0.53										
6.	Robinson C. Flynn 2828 Fox Hall St. Mohegan Lake, NY 10547	\$0.53										
7.	Jason Pabon 3030 Knollwood Ct. Mohegan Lake, NY 10547	\$0.53										
8.	Dearstyne Family Trust 2643 Stony St. Mohegan Lake, NY 10547	\$0.25										
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1.	M & A Trustees Hirsch 1312 Winding Court Mohegan Lake NY 10547	\$0.53												
2.	Roger Piccirilli 1387 Quarry Drive Mohegan Lake, NY 10547	\$0.53												
3.	Stalyn Marmolejos 1371 Quarry Drive Mohegan Lake, NY 10547	\$0.53												
4.	Lisa M Gallagher 77 Grand Street Croton on Hudson, NY 10520	\$0.53												
5.	Bonnie Woods Realty CO 299 Lewis Ave Yorktown Heights, NY 10598	\$0.53												
6.	Mogul Park C/O Maureen Bossio 1644 Mogul Drive Mohegan Lake, NY 10547	\$0.53												
7.	City of New York City Dept. of Env. Prot. DIR. Water Supply 71 Smith Ave Kingston, NY 12401	\$0.53												
8.	Wenling Li 2665 Deer Street Mohegan Lake, NY 10547	\$0.53												

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  - Insured Mail
  - Priority Mail
  - Priority Mail Express
  - Registered Mail
  - Return Receipt for Merchandise
  - Signature Confirmation
  - Signature Confirmation Restricted Delivery

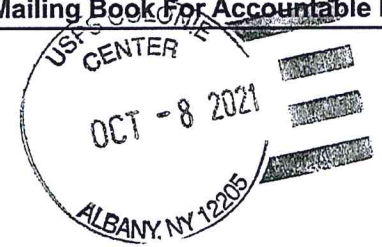
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1.	Kenneth Wong 2641 Deer Street Mohegan Lake NY 10547	\$0.53												
2.	Magsood Khan 2710 Deer Track Court Mohegan Lake, NY 10547	\$0.53												
3.	3151 Stoney St, LLC C/O General Counsel 3151 Stony Street Mohegan Lake, NY 10547	\$0.53												
4.	Joseph Helmer 3036 Knollwood Court Mohegan Lake, NY 10547	\$0.53												
5.	Phillip Mariano 1361 Quarry Drive Mohegan Lake, NY 10547	\$0.53												
6.	Walter & Judith Cyzner Living Trust 54 Patton Drive Yonkers, NY 10547	\$0.53												
7.	Jane Daniels 2802 Deer Street Mohegan Lake, NY 10547	\$0.53												
8.	Marianne Dalton 242 Rokeby Road Red Hook, NY 12571	\$0.53												
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1.	Jennifer Levinson 2820 Stony Street Mohegan Lake NY 10547	\$0.53												
2.	Martin Carrillo 2653 Deer Street Mohegan Lake, NY 10547	\$0.53												
3.	Carmella Sarah Barbiera 2663 Stony Street Mohegan Lake, NY 10547	\$0.53												
4.	Phillip Davidoff 2954 Sherman Court Mohegan Lake, NY 10547	\$0.53												
5.	Michael Mayosky 2910 Sherman Court Mohegan Lake, NY 10547	\$0.53												
6.	Emmanuel Job Charles 2677 Deer Street Mohegan Lake, NY 10547	\$0.53												
7.	Adam Karp 2689 Deer Street Mohegan Lake, NY 10547	\$0.53												
8.	State of NY Hostel #2508 PO Box 470 Thiells NY 10984	\$0.53												
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USPS Tracking/Article Number		Addressee (Name, Street, City, State, & ZIP Code™)		Postage	(Extra Service) Fee	Handling Charge	Actual Value if Registered	Insured Value	Due Sender if COD	ASR Fee	RR Fee	SC Fee	SCRD Fee	SH Fee		
1.	Washington Suarez 2732 Deer Street Mohegan Lake NY 10547		\$0.53		in value											
2.	Rose Simone 1289 Winding Court Mohegan Lake, NY 10547		\$0.53		in value											
3.	Mallardi Laraia 850 Morris Park Ave Bronx, NY 10462		\$0.53							Adult Signature Required	Adult Signature Restricted Delivery					
4.	Hyde D. Ann 2829 Grant Ave Mohegan Lake, NY 10547		\$0.53		Registered and over \$50,000 in value					Adult Signature Required	Adult Signature Restricted Delivery	Restricted Delivery	Return Receipt	Signature Confirmation		
5.	Richard Jablonski 1390 Quarry Drive Mohegan Lake, NY 10547		\$0.53							Adult Signature Required	Adult Signature Restricted Delivery	Restricted Delivery	Return Receipt	Signature Confirmation		
6.	Joseph Daronco 1386 Quarry Drive Mohegan Lake, NY 10547		\$0.53							Adult Signature Required	Adult Signature Restricted Delivery	Restricted Delivery	Return Receipt	Signature Confirmation		
7.	Peter V Dichiarra 1380 Quarry Drive Mohegan Lake, NY 10547		\$0.53											Signature Confirmation Restricted Delivery		
8.	Michael Huffman 1376 Quarry Drive Mohegan Lake, NY 10547		\$0.53													
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1.	Henry Soliz 2870 Stony Street Mohegan Lake NY 10547	\$0.53											
2.	Gerald Spivak 2825 Stony Street Mohegan Lake, NY 10547	\$0.53											
3.	Myra Helfand 2841 Stony Street Mohegan Lake, NY 10547	\$0.53											
4.	Phillip Mangifrida 1221 Avenue of the Americas, Level C2 New York, NY 10020	\$0.53											
5.	Muhammad Zia 2701 Deer Street Mohegan Lake, NY 10547	\$0.53											
6.													
7.													
8.													
Total Number of Pieces Listed by Sender	Total Number of Pieces Received at Post Office	Postmaster, Per (Name of receiving employee)											

Sign Notification Certification

Per Section §205-7 of the Town of Yorktown Town Code, every applicant that submits an application to an approval authority empowered to approve or deny said application must post one or more notification signs on the property which is the subject of said application.

Section 26.09 Block 1 Lot 22

Project Name: Granite Knolls Park

Address: 2975 Stoney St., Mohegan Lake, NY 10547

Applicant's Name: HESP Solar, LLC

Address: 400 Rella Boulevard, Suite 160, Suffern, NY 10901

Phone: 845-405-0600

No. Signs Posted: 1

Sign #1 Location: Stoney St.

Sign #2 Location: \_\_\_\_\_

Sign #3 Location: \_\_\_\_\_

- Please Attach and Label Photos on Additional Sheets -

Applicant's Signature: \_\_\_\_\_

Land Owner's Signature: \_\_\_\_\_

RECEIVED  
PLANNING DEPARTMENT

OCT 13 2021

TOWN OF YORKTOWN



**Sign Notification Locations:**



Sign #1 - Stoney St, View 1



Sign #1 - Stoney St, View 2

RECEIVED  
PLANNING DEPARTMENT  
OCT 13 2021  
TOWN OF YORKTOWN

# TOWN OF YORKTOWN PLANNING BOARD

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

## APPLICATION FOR SITE PLAN APPROVAL

Date 9/15/2021

1. Name of Project: Granite Knolls Park

2. Tax Map Designation (Section, Block, Lot) 26.09-1-22

3. Zone: R1-160 Total Acreage: 73.17 ±

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

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

The proposed project consists of a 1.4± acre ground mounted array & 1.51± acre solar canopy system (Granite Knolls Park Solar Project)

6. Contact Person - CHOOSE ONLY ONE:

Applicant  Owner  Architect  Wetland Scientist  
 Attorney  Engineer  Surveyor  Landscape Architect

7. Applicant

Name Susan Brodie  
Firm HESP Solar, LLC  
Address 400 Rella Boulevard, Suite 160, Suffern, NY 10901  
Phone (845) 405-0600  
Fax N/A  
Email sbrodie@hespsolar.com

8. Owner of Record

Name Town of Yorktown Parkland  
Firm N/A  
Address 2975 Stony Street, Mohegan Lake, NY 10547  
Phone N/A  
Fax N/A  
Email N/A

**9. Attorney**

Name TBD  
Firm \_\_\_\_\_  
Address \_\_\_\_\_  
Phone \_\_\_\_\_  
Fax \_\_\_\_\_  
Email \_\_\_\_\_

**10. Engineer**

Name Eric Redding, PE  
Firm Bergmann  
Address 2 Winners Circle, Suite 102, Albany NY 12205  
Phone (518) 556-3631  
Fax N/A  
Email eredding@bergmannpc.com  
Lic. No. 092442

**11. Surveyor**

Name Douglas Bogdan  
Firm Bergmann  
Address 181 Washington Street #430, Conshohocken, PA 19428  
Phone (484) 567-7688  
Fax N/A  
Email dbogdan@bergmannpc.com  
Lic. No. 050478

**12. Architect**

Name TBD  
Firm \_\_\_\_\_  
Address \_\_\_\_\_  
Phone \_\_\_\_\_  
Fax \_\_\_\_\_  
Email \_\_\_\_\_  
Lic. No. \_\_\_\_\_

**13. Wetland Scientist/Specialist**

Name Jacob Hill  
Firm Bergmann  
Address 2 Winners Circle, Suite 102, Albany NY 12205  
Phone (518) 389-1105  
Fax N/A  
Email jhill@bergmannpc.com

**14. Landscape Architect**

Name TBD  
Firm \_\_\_\_\_  
Address \_\_\_\_\_  
Phone \_\_\_\_\_  
Fax \_\_\_\_\_  
Email \_\_\_\_\_  
Lic. No. \_\_\_\_\_

15. Is this project within 500 feet of the Town line?  Yes  No  
16. Is this project within 500 feet of the Putnam County line?  Yes  No  
17. Is this project within the Sustainable Development Study Area?  Yes  No

**18. Is this project within 500 feet of:**

- The right-of-way of any existing or proposed state or county road?  Yes  No  
The boundary of an existing or proposed state or county park or any state or county recreation area?  Yes  No  
The boundary of state or county-owned land on which a public building/institution is located?  Yes  No  
An existing or proposed county drainage line?  Yes  No  
The boundary of a farm located in an agricultural district?  Yes  No

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

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

- Wetland Permit
- Stormwater Permit
- Tree Permit
- Planning Board special permit: Large-Scale Solar Power Generation Systems and Facilities
- Town Board variance or approval: \_\_\_\_\_
- Zoning Board of Appeals variance or special permit: \_\_\_\_\_

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

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

22. This parcel is in the following districts:

School District	<u>Yorktown Central</u>	Water District	<u>Yorktown Consolidated W.D.</u>
Fire District	<u>Mohegan</u>	Sewer District	<u>Peekskill Sewer District</u>

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

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

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

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

-----

**Applicant**

**Owner of Record**

HESP Solar, LLC c/o Susan Brodie

Town of Yorktown Parkland

NAME (PLEASE PRINT)

NAME (PLEASE PRINT)

\_\_\_\_\_  
SIGNATURE

\_\_\_\_\_  
SIGNATURE

\_\_\_\_\_  
DATE

\_\_\_\_\_  
DATE

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

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

**REFER TO AFFIDAVITS ON THE FOLLOWING PAGES**

**ONE OF THE FOLLOWING AFFIDAVITS MUST BE COMPLETED**

\*\*\*\*\*

**AFFIDAVIT TO BE COMPLETED BY OWNER, OTHER THAN CORPORATION**

STATE OF NEW YORK; COUNTY OF WESTCHESTER SS. :

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

\_\_\_\_\_

Sworn before me this \_\_\_\_\_ date of \_\_\_\_\_, 20 \_\_

\_\_\_\_\_  
Notary Public

\*\*\*\*\*

**AFFIDAVIT TO BE COMPLETED BY CORPORATION OWNER**

STATE OF NEW YORK; COUNTY OF WESTCHESTER SS. :

\_\_\_\_\_, being duly sworn, deposes and says that he resides at \_\_\_\_\_ in the County of \_\_\_\_\_ and State of \_\_\_\_\_. That he is the \_\_\_\_\_ of \_\_\_\_\_ the corporation which is owner in fee of the property described in the foregoing application for \_\_\_\_\_ and that the statements contained therein are true to the best of his knowledge and belief.

\_\_\_\_\_

Sworn before me this \_\_\_\_\_ date of \_\_\_\_\_, 20 \_\_

\_\_\_\_\_  
Notary Public

\*\*\*\*\*

**AFFIDAVIT TO BE COMPLETED BY AGENT OF OWNER**

STATE OF NEW YORK; COUNTY OF WESTCHESTER SS. :

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

\_\_\_\_\_

Sworn before me this \_\_\_\_\_ date of \_\_\_\_\_, 20 \_\_

\_\_\_\_\_  
Notary Public

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Last updated: December 2011

# TOWN OF YORKTOWN PLANNING BOARD

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

## SPECIAL USE PERMIT APPLICATION

If this application is not being made in conjunction with a request for site plan approval from the Planning Board, a site plan/plot plan and Short EAF must also be submitted with this application. The required fee is \$625.00 for new applications and \$312.00 for requests to renew an existing permit.

Date 9/15/2021

1. Tax Map Designation (Section, Block, Lot) 26.09-1-22

2. Property Address 2975 Stoney Street, Mohegan Lake, NY 10547

3. Zone: R1-160 Total Acreage: 73.17±

### 4. Indicate requested special use permit:

- |                                     |                  |   |
|-------------------------------------|------------------|---|
| <input type="checkbox"/>            | §300-21(8)(a)[1] | Outdoor service in commercial districts.  |
| <input type="checkbox"/>            | §300-40          | Bus passenger shelters.   |
| <input type="checkbox"/>            | §300-54          | Religious institutions, social, cultural, charitable and recreational nonprofit uses. |
| <input type="checkbox"/>            | §300-55          | Parochial, private elementary and high schools, colleges and seminaries.              |
| <input type="checkbox"/>            | §300-69          | Valet parking at banquet halls.   |
| <input type="checkbox"/>            | §300-71          | New and/or used car automobile sales.   |
| <input type="checkbox"/>            | §300-73.1(A)(2)  | Permanent seasonal outdoor sales in commercial districts.                             |
| <input type="checkbox"/>            | §300-75          | Warehouse or storage in retail shopping centers.                                      |
| <input type="checkbox"/>            | §300-78          | Cemeteries.   |
| <input type="checkbox"/>            | §300-79          | Self-storage centers.   |
| <input type="checkbox"/>            | §300-80          | Sidewalk cafes. (outdoor dining for more than 12 seats)                               |
| <input type="checkbox"/>            | §300-81.1        | Helistops.  |
| <input type="checkbox"/>            | §300-81.2        | Accessory recycling facilities.   |
| <input checked="" type="checkbox"/> | §300-81.4        | Large-Scale Solar Power Generation Systems and Facilities                             |
| <input type="checkbox"/>            | §300-81.5        | Tier 2 Battery Energy Storage Systems   |
| <input type="checkbox"/>            | §300-238.1       | Multifamily dwelling units in the Country Commercial Zone.                            |

### 5. Description of proposed use (if applying for outdoor dining, indicate proposed dining area square footage and number of seats):

The proposed project consists of a 1.4± acre ground mounted solar array & a 1.51± acre solar canopy system (Granite Knolls Park Solar Project). It will involve the installation of a ground mounted array, a solar carport system, battery storage, electric utility upgrades, and perimeter fencing.



**6. Applicant**

Name Susan Brodie  
Firm HESP Solar, LLC  
Address 400 Rella Boulevard, Suite 160, Suffern, NY 10901  
Phone (845) 405-0600  
Email sbrodie@hespsolar.com

**7. Owner of Record**

Name Town of Yorktown Parkland  
Firm N/A  
Address 2975 Stony Street, Mohegan Lake, NY 10547  
Phone (914) 962-5722  
Email N/A

In the event the permit is issued, the undersigned applicant will comply with all provisions of the Code of the Town of Yorktown and all other applicable laws, codes, rules and regulations of any Federal, State or County Government, bureau or department thereof, having jurisdiction over said premises and the use to be conducted thereat.

**Applicant**

**Owner of Record**

\_\_\_\_\_  
SIGNATURE

\_\_\_\_\_  
SIGNATURE

\_\_\_\_\_  
PRINT NAME

\_\_\_\_\_  
PRINT NAME

\_\_\_\_\_  
DATE

\_\_\_\_\_  
DATE

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

**TOWN OF YORKTOWN PLANNING BOARD**

**Large Scale Solar Power Generation Systems & Facilities  
Special Permit Application Addendum**

**GENERAL PROJECT INFORMATION**

Project Name: Granite Knolls Park Solar Project

Section, Block, Lot: 26.09-1-22

Existing Site Use:  Residential  Commercial Zone: R1-160

Is Applicant?  Property Owner  Lessee

Proposed Lot Coverage: 2.6%

**PROVIDE THE TOTAL SYSTEM CAPACITY RATING**

A Large Scale Solar Energy system is a Solar Energy System that exceeds 20 kW DC as rated by its nameplate capacity. The maximum system capacity and the maximum area of land upon which the system shall be erected are as follows:

(1) Up to one megawatt AC on an area of land no larger than 10 acres, excluding any easement for accessing the parcel; or over 1 but not to exceed 5 Megawatt AC on an area of land no larger than 20 acres, excluding any easement for accessing the parcel.

Total System Capacity Rating: \_\_\_\_\_ kWh Power Rating 1,404 kW (Select One)  AC or  DC

**SELECT INSTALLATION TYPE**

Ground  Rooftop

**PROPOSED SOLAR ENERGY SYSTEM INSTALLATION INFORMATION**

Sponsor Company

Contact Name Susan Brodie

Business Name HESP Solar, LLC

Address 400 Rella Boulevard, Suite 160, Suffern, NY 10901

Phone (845) 405-0600

Email sbrodie@hespsolar.com

Contractor/Installation Company

Contact Name TBD  
Business Name TBD  
Address TBD  
Phone TBD  
Email TBD

**PROPOSED OWNER AND/OR OPERATOR (IF DIFFERENT FROM ABOVE)**

Name Town of Yorktown Parkland  
Firm N/A  
Address 2975 Stoney Street, Mohegan Lake, NY 10547  
Phone N/A  
Email N/A

**SUBMITTAL REQUIREMENTS**

In order to submit a complete permit application for a new large-scale solar power generation system, the applicant must include:

- a) Completed Planning Board Special Use Permit Application with this Large Scale Solar Power Generation System Addendum.
- b) A special permit application fee of \$625.00 paid by check made payable to the Town of Yorktown.
- c) Required documents as listed in Section 300-84.1(F):
  - Equipment specification sheets shall be submitted for all photovoltaic panels, significant components, mounting systems, and inverters that are to be installed.
  - A property Operation and Maintenance Plan shall be submitted.
  - A carbon sequestration for tree loss calculation.
  - Proposed tree loss mitigation, if applicable.
  - A Decommissioning Plan
- d) All site plan application requirements pursuant to Section 300-85/1(I) of the Town of Yorktown Town Code.

**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: Granite Knolls Park Solar Project		
Project Location (describe, and attach a general location map): 2975 Stoney Street, Mohegan Lake, NY 10547		
Brief Description of Proposed Action (include purpose or need): The proposed project consists of a 1.4± acre ground mounted solar array and a 1.51± acre solar canopy system (Granite Knolls Park Solar Project). The proposed community solar project will provide significant local sustainability and carbon reduction benefits to the Town of Yorktown. The system will also increase local grid resiliency and help to facilitate New York State's broader renewable energy goals.		
Name of Applicant/Sponsor: Susan Brodie	Telephone: (845) 405-0600	E-Mail: sbrodie@hespsolar.com
Address: 400 Rella Boulevard, Suite 160		
City/PO: Suffix	State: New York	Zip Code: 12585
Project Contact (if not same as sponsor; give name and title/role): Bergmann c/o Eric Redding, PE as Agent for Applicant	Telephone: (518) 556-3631	E-Mail: eredding@bergmannpc.com
Address: 2 Winners Circle, Suite 102		
City/PO: Albany	State: NY	Zip Code: 12205
Property Owner (if not same as sponsor): Town of Yorktown Parkland	Telephone: N/A	E-Mail: N/A
Address: 2975 Stoney Street		
City/PO: Mohegan Lake	State: New York	Zip Code: 10598

**B. Government Approvals**

<b>B. Government Approvals, Funding, or Sponsorship.</b> (“Funding” includes grants, loans, tax relief, and any other forms of financial assistance.)		
<b>Government Entity</b>	<b>If Yes: Identify Agency and Approval(s) Required</b>	<b>Application Date (Actual or projected)</b>
a. City Counsel, Town Board, <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No or Village Board of Trustees		
b. City, Town or Village Planning Board or Commission <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Yorktown Planning Board - Site Plan Approval and Special Use Permit	
c. City, Town or Village Zoning Board of Appeals <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
d. Other local agencies <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
e. County agencies <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
f. Regional agencies <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
g. State agencies <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	NYSERDA - Incentives	
h. Federal agencies <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
i. Coastal Resources. <ul style="list-style-type: none"> <li>i. Is the project site within a Coastal Area, or the waterfront area of a Designated Inland Waterway? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</li> <li>ii. Is the project site located in a community with an approved Local Waterfront Revitalization Program? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</li> <li>iii. Is the project site within a Coastal Erosion Hazard Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</li> </ul>		

**C. Planning and Zoning**

<b>C.1. Planning and zoning actions.</b>	
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? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <ul style="list-style-type: none"> <li>• <b>If Yes</b>, complete sections C, F and G.</li> <li>• <b>If No</b>, proceed to question C.2 and complete all remaining sections and questions in Part 1</li> </ul>	
<b>C.2. Adopted land use plans.</b>	
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? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If Yes, does the comprehensive plan include specific recommendations for the site where the proposed action would be located? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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?) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If Yes, identify the plan(s): NYC Watershed Boundary _____ _____ _____	
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? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If Yes, identify the plan(s): Open Space Plan (Private Institutions) _____ _____ _____	

**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?  
R-160 - One Family Residential
- 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? Yorktown Central
- b. What police or other public protection forces serve the project site?  
Yorktown P.D.
- c. Which fire protection and emergency medical services serve the project site?  
Mohegan F.D.
- d. What parks serve the project site?  
Granite Knolls Park, Sylvan Glen Town Preserve, Mcgregor Pond Preserves

**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)? Residential
- b. a. Total acreage of the site of the proposed action? 73.17 acres  
b. Total acreage to be physically disturbed? 0 acres  
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? 73.17 acres
- 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)? % TBD Units: TBD
- 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: 6 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 \_\_\_\_\_ N/A

ii. Dimensions (in feet) of largest proposed structure: \_\_\_\_\_ N/A height; \_\_\_\_\_ N/A width; and \_\_\_\_\_ N/A length

iii. Approximate extent of building space to be heated or cooled: \_\_\_\_\_ N/A 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? (Not including general site preparation, grading or installation of utilities or foundations where all excavated materials will remain onsite)  Yes  No

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:

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:

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



<ul style="list-style-type: none"> <li>• Do existing sewer lines serve the project site? _____</li> <li>• Will a line extension within an existing district be necessary to serve the project? _____</li> </ul> <p>If Yes:</p> <ul style="list-style-type: none"> <li>• Describe extensions or capacity expansions proposed to serve this project: _____</li> </ul>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No
<p>iv. Will a new wastewater (sewage) treatment district be formed to serve the project site? _____</p> <p>If Yes:</p> <ul style="list-style-type: none"> <li>• Applicant/sponsor for new district: _____</li> <li>• Date application submitted or anticipated: _____</li> <li>• What is the receiving water for the wastewater discharge? _____</li> </ul>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p>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):</p> <p>_____</p> <p>_____</p>	
<p>vi. Describe any plans or designs to capture, recycle or reuse liquid waste: _____</p> <p>_____</p>	
<p>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? _____</p> <p>If Yes:</p> <p>i. How much impervious surface will the project create in relation to total size of project parcel?</p> <p style="padding-left: 40px;">_____ Square feet or _____ acres (impervious surface)</p> <p style="padding-left: 40px;">_____ Square feet or _____ acres (parcel size)</p> <p>ii. Describe types of new point sources. _____</p> <p>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)?</p> <p>_____</p> <p>_____</p> <ul style="list-style-type: none"> <li>• If to surface waters, identify receiving water bodies or wetlands: _____</li> <li>_____</li> <li>• Will stormwater runoff flow to adjacent properties? _____</li> </ul>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No
<p>iv. Does the proposed plan minimize impervious surfaces, use pervious materials or collect and re-use stormwater? _____</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p>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? _____</p> <p>If Yes, identify:</p> <p>i. Mobile sources during project operations (e.g., heavy equipment, fleet or delivery vehicles)</p> <p>_____</p> <p>ii. Stationary sources during construction (e.g., power generation, structural heating, batch plant, crushers)</p> <p>_____</p> <p>iii. Stationary sources during operations (e.g., process emissions, large boilers, electric generation)</p> <p>_____</p>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<p>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? _____</p> <p>If Yes:</p> <p>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) _____</p> <p>ii. In addition to emissions as calculated in the application, the project will generate:</p> <ul style="list-style-type: none"> <li>• _____ Tons/year (short tons) of Carbon Dioxide (CO<sub>2</sub>)</li> <li>• _____ Tons/year (short tons) of Nitrous Oxide (N<sub>2</sub>O)</li> <li>• _____ Tons/year (short tons) of Perfluorocarbons (PFCs)</li> <li>• _____ Tons/year (short tons) of Sulfur Hexafluoride (SF<sub>6</sub>)</li> <li>• _____ Tons/year (short tons) of Carbon Dioxide equivalent of Hydrofluorocarbons (HFCs)</li> <li>• _____ Tons/year (short tons) of Hazardous Air Pollutants (HAPs)</li> </ul>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No

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. During Construction:</p> <ul style="list-style-type: none"> <li>• Monday - Friday: _____ 7:00 a.m. - 6:00 p.m. _____</li> <li>• Saturday: _____ 7:00 a.m. - 6:00 p.m. _____</li> <li>• Sunday: _____ N/A _____</li> <li>• Holidays: _____ N/A _____</li> </ul>	<p>ii. During Operations:</p> <ul style="list-style-type: none"> <li>• Monday - Friday: _____ N/A _____</li> <li>• Saturday: _____ N/A _____</li> <li>• Sunday: _____ N/A _____</li> <li>• Holidays: _____ N/A _____</li> </ul>
--	---

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:  
 Noise levels will temporarily increase during construction due to construction equipment during the hours of 7:00 a.m. - 6:00 p.m., Monday - Saturday. Construction duration will not exceed 4 months. No significant impact with respect to noise is anticipated during operations. Work will conform to local noise ordinance.

ii. Will the proposed action remove existing natural barriers that could act as a noise barrier or screen?  Yes  No  
 Describe: existing vegetation will remain around the boundary of the project site.

---

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

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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: \_\_\_\_\_

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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	2.17±	2.17±	0.00
• Forested	47.22±	46.47±	- 0.75±
• Meadows, grasslands or brushlands (non-agricultural, including abandoned agricultural)	23.72±	24.47±	+0.75±
• Agricultural (includes active orchards, field, greenhouse etc.)	0.00	0.00	0.00
• Surface water features (lakes, ponds, streams, rivers, etc.)	0.01±	0.01±	0.00
• Wetlands (freshwater or tidal)	0.05±	0.05±	0.00
• Non-vegetated (bare rock, earth or fill)	0.00	0.00	0.00
• Other Describe: _____	0.00±	0.00±	0.00

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:  
Shrub Oak International School \_\_\_\_\_

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:  
i. Has the facility been formally closed?  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:  
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:  
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): \_\_\_\_\_

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? \_\_\_\_\_ 3.51 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:

Paxton Fine Sandy Loam (3-8%)	_____	36.6 %
Paxton Fine Sandy Loam (8-15%)	_____	33.8 %
Woodbridge Loam (8-15%)	_____	14.2 %

d. What is the average depth to the water table on the project site? Average: \_\_\_\_\_ 2.49 feet

e. Drainage status of project site soils:  Well Drained: \_\_\_\_\_ 73.7 % of site  
 Moderately Well Drained: \_\_\_\_\_ 20.5 % of site  
 Poorly Drained \_\_\_\_\_ 5.7 % of site

f. Approximate proportion of proposed action site with slopes:  0-10%: \_\_\_\_\_ 62.65 % of site  
 10-15%: \_\_\_\_\_ 34.45 % of site  
 15% or greater: \_\_\_\_\_ 2.8 % 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 TBD Classification NON WOTUS
- Lakes or Ponds: Name \_\_\_\_\_ Classification \_\_\_\_\_
- Wetlands: Name TBD Approximate Size 0.5 Acres
- 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: \_\_\_\_\_  
\_\_\_\_\_

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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: _____ Various Migratory Birds _____ Typical Northeastern Wildlife _____	_____ _____ _____
n. Does the project site contain a designated significant natural community? <span style="float: right;"><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</span> 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"> <li>• Currently: _____ acres</li> <li>• Following completion of project as proposed: _____ acres</li> <li>• Gain or loss (indicate + or -): _____ acres</li> </ul>	
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? <span style="float: right;"><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</span> 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? <span style="float: right;"><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</span> 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? <span style="float: right;"><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</span> If yes, give a brief description of how the proposed action may affect that use: _____ _____	
<b>E.3. Designated Public Resources On or Near Project Site</b>	
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? <span style="float: right;"><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</span> If Yes, provide county plus district name/number: _____	
b. Are agricultural lands consisting of highly productive soils present? <span style="float: right;"><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</span> <i>i.</i> If Yes: acreage(s) on project site? 68.41 Acres <i>ii.</i> Source(s) of soil rating(s): NCRS Soil Survey	
c. Does the project site contain all or part of, or is it substantially contiguous to, a registered National Natural Landmark? <span style="float: right;"><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</span> 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? <span style="float: right;"><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</span> If Yes:	
<i>i.</i> CEA name: _____ <i>ii.</i> Basis for designation: _____ <i>iii.</i> Designating agency and date: _____	

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?  Yes  No

If Yes:

i. Nature of historic/archaeological resource:  Archaeological Site  Historic Building or District

ii. Name: \_\_\_\_\_

iii. Brief description of attributes on which listing is based: \_\_\_\_\_

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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?  Yes  No

---

g. Have additional archaeological or historic site(s) or resources been identified on the project site?  Yes  No

If Yes:

i. Describe possible resource(s): \_\_\_\_\_

ii. Basis for identification: \_\_\_\_\_

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h. Is the project site within five miles of any officially designated and publicly accessible federal, state, or local scenic or aesthetic resource?  Yes  No

If Yes:

i. Identify resource: Westchester County GIS, Granite Knolls Park

ii. Nature of, or basis for, designation (e.g., established highway overlook, state or local park, state historic trail or scenic byway, etc.): Local Park

iii. Distance between project and resource: \_\_\_\_\_ 0 miles.

---

i. Is the project site located within a designated river corridor under the Wild, Scenic and Recreational Rivers Program 6 NYCRR 666?  Yes  No

If Yes:

i. Identify the name of the river and its designation: \_\_\_\_\_

ii. Is the activity consistent with development restrictions contained in 6NYCRR Part 666?  Yes  No

**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 HESP Solar, LLC c/o Susan Brodie Date 09/15/2021

Signature  Bergmann c/o Eric Redding, PE as Agent for Applicant Title Discipline Leader





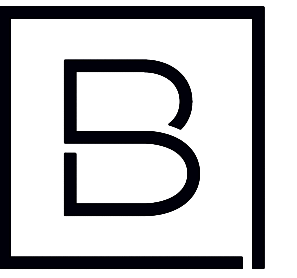
**Disclaimer:** The EAF Mapper is a screening tool intended to assist project sponsors and reviewing agencies in preparing an environmental assessment form (EAF). Not all questions asked in the EAF are answered by the EAF Mapper. Additional information on any EAF question can be obtained by consulting 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]	No
B.i.ii [Local Waterfront Revitalization Area]	No
C.2.b. [Special Planning District]	Yes - Digital mapping data are not available for all Special Planning Districts. Refer to EAF Workbook.
C.2.b. [Special Planning District - Name]	NYC Watershed Boundary
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]	No
E.2.g [Unique Geologic Features]	No
E.2.h.i [Surface Water Features]	No
E.2.h.ii [Surface Water Features]	Yes
E.2.h.iii [Surface Water Features]	Yes - Digital mapping information on local and federal wetlands and waterbodies is known to be incomplete. Refer to EAF Workbook.
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]	No
E.2.n. [Natural Communities]	No
E.2.o. [Endangered or Threatened Species]	No

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]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.3.f. [Archeological Sites]	Yes
E.3.i. [Designated River Corridor]	No

# PRELIMINARY DEVELOPMENT PLANS FOR PROPOSED GRANITE KNOLLS PARK SOLAR DEVELOPMENT 2975 STONY STREET MOHEGAN LAKE, NEW YORK



**BERGMANN**  
ARCHITECTS ENGINEERS PLANNERS

2 Winners Circle, Suite 102  
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office: 518.862.0325

**HESP SOLAR, LLC**

**YORKTOWN  
GRANITE KNOLLS**

2975 STONEY STREET  
MOHEGAN LAKE, NY 10547

Date Revised Description

PROJECT CONTACTS

CIVIL ENGINEER

BERGMANN  
2 WINNERS CIRCLE, SUITE 102  
ALBANY, NY 12205  
CONTACT: ERIC REDDING, PE  
PHONE: 518.556.3631

OWNER

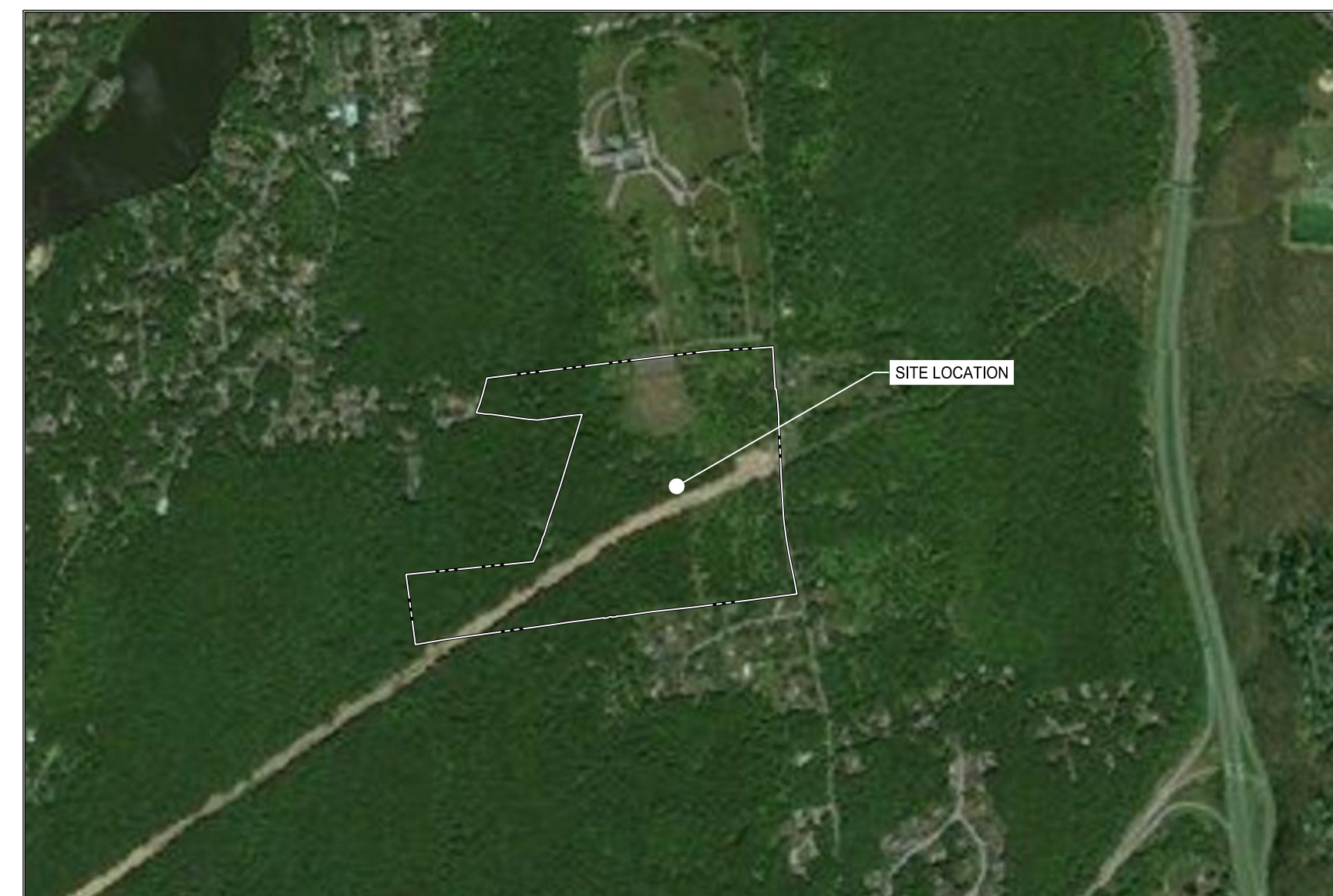
TOWN OF YORKTOWN PARKLAND  
2975 STONEY STREET  
MOHEGAN LAKE, NY 10547

APPLICANT

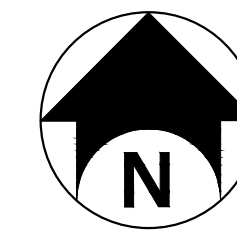
HESP SOLAR, LLC  
400 RELLA BOULEVARD, SUITE 160  
SUFFERN, NY 10901  
CONTACT: SUSAN BRODIE  
PHONE: 845.405.0600

ELECTRICAL ENGINEER

TBD



SITE LOCATION MAP  
1"=1000'



**DRAWING INDEX**

DRAWING NO.	DRAWING TITLE	SHEET NO.
C000	COVER	1
C001	GENERAL NOTES	2
C002	AREA PARCEL PLAN	3
C003	EXISTING CONDITIONS PLAN	4
C004	OVERALL SITE PLAN	5
C005	SITE PLAN	6
C006	DETAILS I	7
C007	DETAILS II	8
C008	DETAILS III	9

NOT FOR  
CONSTRUCTION  
0 % SUBMISSION

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Project Manager	Discipline Lead
<b>ECR</b>	<b>ECR</b>
Designer	Reviewer
<b>AG</b>	<b>MDP</b>
Date Issued	Project Number
<b>09/15/2021</b>	<b>14064.11</b>

Sheet Name

**COVER**

Drawing Number

**C000**

SEQUENCE OF CONSTRUCTION:

- PRE-CONSTRUCTION MEETING HELD TO INCLUDE PROJECT MANAGER, OPERATOR'S ENGINEER, CONTRACTOR, AND SUB-CONTRACTORS PRIOR TO LAND DISTURBING ACTIVITIES.
- CONSTRUCT CONSTRUCTION ENTRANCE/EXIT AT LOCATIONS DESIGNATED ON PLANS.
- INSTALL PERIMETER SILT FENCE.
- HAVE A QUALIFIED PROFESSIONAL CONDUCT AN ASSESSMENT OF THE SITE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- BEGIN CLEARING AND GRUBBING OPERATIONS. CLEARING AND GRUBBING SHALL BE DONE ONLY IN AREAS WHERE EARTHWORK WILL BE PERFORMED AND ONLY IN AREAS WHERE CONSTRUCTION IS PLANNED TO COMMENCE WITHIN 14 DAYS AFTER CLEARING AND GRUBBING.
- CONSTRUCT GRAVEL ROAD TO BE USED DURING CONSTRUCTION
- STRIP TOPSOIL AND STOCKPILE IN A LOCATION ACCEPTABLE TO CONSTRUCTION MANAGER. WHEN STOCKPILE IS COMPLETE, INSTALL PERIMETER SILT FENCE, SEED SURFACE WITH 100% PERENNIAL RYEGRASS MIXTURE AT A RATE OF 2-4 LBS. PER 1000 SF. APPLY 90-100 LBS PER 1000 SF OF MULCH.
- COMMENCE EARTHWORK CUT AND FILLS. THE WORK SHALL BE PROGRESSED TO ALLOW A REASONABLE TRANSFER OF CUT AND FILL EARTH FOR ROUGH GRADING AND EARTH MOVING. THE CONTRACTOR WILL BE GIVEN SOME LATITUDE TO VARY FROM THE FOLLOWING SCHEDULE IN ORDER TO MEET THE FIELD CONDITIONS ENCOUNTERED. CONTRACTOR SHALL REVIEW VARIATIONS TO SWPPP WITH DESIGN ENGINEER AND QUALIFIED PROFESSIONAL PRIOR TO IMPLEMENTATION.
- REMOVE GRAVEL DRIVEWAY USED DURING CONSTRUCTION AND CONSTRUCT THE PROPOSED PERVIOUS GRAVEL DRIVEWAY AFTER CONSTRUCTION ACTIVITIES SUCH AS THE INSTALLATION OF THE PANELS AND PERIMETER FENCE. THE SUB-GRADE MATERIAL WHERE THE DRIVEWAY IS TO BE INSTALLED SHALL BE DECOMPACTED PER NYSDEC'S "DEEP-RIPPING AND DECOMPACTION" MANUAL, DATED APRIL 2008. CONTRACTOR SHALL AVOID FREQUENT HEAVY TRAFFIC ON THE LIMITED USE PERVIOUS GRAVEL.
- AS ROADWAY AND ACCESS DRIVES ARE BROUGHT TO GRADE, THEY WILL BE STABILIZED WITH CRUSHED STONE SUBBASE AT A DEPTH SPECIFIED ON PLANS TO PREVENT EROSION AS SOON AS PRACTICABLE.
- STABILIZE ALL AREAS AS SOON AS PRACTICABLE, IDLE IN EXCESS OF 7 DAYS AND IN WHICH CONSTRUCTION WILL NOT RECOMMENCE WITHIN 14 DAYS.
- INSTALL UTILITIES. TRENCH EXCAVATION/BACKFILL AREAS SHOULD BE STABILIZED PROGRESSIVELY AT THE END OF EACH WORKDAY WITH SEED AND STRAW MULCH AT A RATE OF 100% PERENNIAL RYE GRASS AT 2-4 LBS/1000 SF MULCHED AT 90-100 LBS/1000 SF.
- STABILIZE ALL AREAS IDLE IN EXCESS OF 7 DAYS IN WHICH CONSTRUCTION WILL NOT RECOMMENCE WITHIN 14 DAYS.
- REMOVE TEMPORARY CONSTRUCTION EXITS AND PERIMETER SILT FENCE ONCE SITE HAS ACHIEVED 80% UNIFORM STABILIZATION.

GENERAL NOTES:

- THE UNDERGROUND STRUCTURES AND UTILITIES SHOWN ON THIS MAP HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORD MAPS. THEY ARE NOT CERTIFIED TO THE ACCURACY OF THEIR LOCATION AND/OR COMPLETENESS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION AND EXTENT OF ALL UNDERGROUND STRUCTURES AND UTILITIES PRIOR TO ANY DIGGING OR CONSTRUCTION ACTIVITIES IN THEIR VICINITY. THE CONTRACTOR SHALL HAVE ALL EXISTING UTILITIES FIELD STAKED BEFORE STARTING WORK BY CALLING 1-800-962-7962.
- THE CONTRACTOR SHALL PERFORM ALL WORK IN COMPLIANCE WITH TITLE 29 OF FEDERAL REGULATIONS, PART 1926, SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION (OSHA).
- HIGHWAY DRAINAGE ALONG ALL ROADS AND PRIVATE DRIVES SHALL BE KEPT CLEAN OF MUD, DEBRIS ETC. AT ALL TIMES.
- THE CONTRACTOR SHALL CONSULT THE DESIGN ENGINEER BEFORE DEVIATING FROM THESE PLANS.
- IN ALL TRENCH EXCAVATIONS, CONTRACTOR MUST LAY THE TRENCH SIDE SLOPES BACK TO A SAFE SLOPE. USE A TRENCH SHIELD OR PROVIDE SHEETING AND BRACING.
- IF SUSPICIOUS AND/OR HAZARDOUS MATERIAL IS ENCOUNTERED DURING DEMOLITION/CONSTRUCTION, ALL WORK SHALL STOP AND THE WESTCHESTER COUNTY DEPARTMENT OF HEALTH AND THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION SHALL BE NOTIFIED IMMEDIATELY. WORK SHALL NOT RESUME UNTIL THE DEVELOPER HAS OUTLINED APPROPRIATE ACTION FOR DEALING WITH THE WASTE MATERIAL AND THE DEVELOPMENT PLANS ARE MODIFIED AS MAY BE NECESSARY.
- EXCAVATED WASTE MATERIAL REMOVED FROM THE SITE SHALL BE PLACED AT A LOCATION ACCEPTABLE TO THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION.
- AREAS DISTURBED OR DAMAGED AS PART OF THIS PROJECTS CONSTRUCTION THAT ARE OUTSIDE OF THE PRIMARY WORK AREA SHALL BE RESTORED, AT THE CONTRACTORS EXPENSE, TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.
- UNLESS COVERED BY THE CONTRACT SPECIFICATIONS OR AS NOTED ON THE PLANS, ALL WORK SHALL CONFORM TO THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS DATED JANUARY 1, 2020 AND ANY SUBSEQUENT APPENDICES.

WASTE/HAZARDOUS MATERIAL PRACTICES:

- WHENEVER POSSIBLE COVERED TRASH CONTAINERS SHOULD BE USED.
- DAILY SITE CLEANUP IS REQUIRED TO REDUCE DEBRIS AND POLLUTANTS IN THE ENVIRONMENT.
- CONTRACTOR SHALL PROVIDE A SAFE STORAGE SPACE FOR ALL PAINTS, STAINS AND SOLVENTS INSIDE A COVERED STORAGE AREA.
- ALL FUELS, OILS, AND GREASE MUST BE KEPT IN CONTAINERS AT ALL TIMES.

EROSION & SEDIMENT CONTROL NOTES:

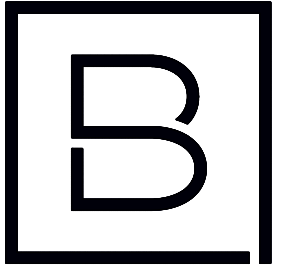
- INSTALL EROSION CONTROL MEASURES AS INDICATED ON THE PLAN PRIOR TO THE START OF ANY EXCAVATION WORK. EROSION CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH THE NEW YORK STATE GUIDELINES FOR URBAN EROSION SEDIMENT CONTROL MANUAL, NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION, AND THE GOVERNING MUNICIPAL REQUIREMENTS.
- REMOVE AND STOCKPILE TOPSOIL AS DIRECTED BY THE CONSTRUCTION MANAGER REPLACE TOPSOIL TO A MINIMUM 4" DEPTH WITH TOPSOIL OR AMENDED SOIL. ALL DISTURBED AREAS TO BE SEEDED TO PROMOTE VEGETATION AS SOON AS PRACTICABLE.
- IF THE SEASONS PROHIBITS TEMPORARY SEEDING, THE DISTURBED AREAS WILL BE MULCHED WITH STRAW HAY OR EQUIVALENT AND ANCHORED IN ACCORDANCE WITH THE "STANDARDS", NETTING OR LIQUID MULCH BINDER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE AND REMOVAL OF TEMPORARY SEDIMENTATION CONTROLS. EROSION CONTROL MEASURES SHALL NOT BE REMOVED BEFORE 80% UNIFORM VEGETATIVE COVER HAS BEEN ACHIEVED.
- ALL EROSION CONTROL MEASURES ARE TO BE REPLACED WHENEVER THEY BECOME CLOGGED OR INOPERABLE AND SHALL BE REPLACED AT A MINIMUM OF EVERY 3 MONTHS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORATION OF TOPSOIL OR AMENDED TO ALL DISTURBED AREAS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN EROSION CONTROL MEASURES AT ALL TIMES.
- THE CONTRACTOR SHALL DESIGNATE A MEMBER OF HIS/HER FIRM TO BE RESPONSIBLE TO MONITOR EROSION CONTROL, EROSION CONTROL STRUCTURES, TREE PROTECTION AND PRESERVATION THROUGHOUT CONSTRUCTION.
- ALL DISTURBED AREAS SHALL BE FINISH GRADED TO PROMOTE VEGETATION ON ALL EXPOSED AREAS AS SOON AS PRACTICABLE. STABILIZATION PRACTICES (TEMPORARY/PERMANENT SEEDING, MULCHING, GEOTEXTILES, ETC.) MUST BE IMPLEMENTED WITHIN SEVEN (7) DAYS WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, AND NOT EXPECTED TO RESUME WITHIN FOURTEEN (14) DAYS.
- PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES. ALL CONSTRUCTION DEBRIS AND SEDIMENT SPOILS, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAYS MUST BE REMOVED IMMEDIATELY.
- DUST SHALL BE CONTROLLED BY WATERING.
- ADJOINING PROPERTY SHALL BE PROTECTED FROM EXCAVATION AND FILLING OPERATIONS ON THE PROPOSED SITE.
- SLOPE TRACKING SHALL BE IMPLEMENTED ON ALL SLOPE 1 ON 3 OR GREATER AT THE END OF EACH WORK DAY AND PRIOR TO FINAL SLOPE GRADING AND STABILIZATION.

STORM WATER POLLUTION PREVENTION PLAN NOTES:

- THE CONTRACTOR SHALL PROVIDE A QUALIFIED INSPECTOR TO INSPECT THE PROJECT AT THE END OF EACH WORK WEEK AND PROVIDE A REPORT AT LEAST ONCE PER WEEK.
- EROSION CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH THE NEW YORK STATE GUIDELINES FOR URBAN EROSION SEDIMENT CONTROL MANUAL, WESTCHESTER COUNTY DEPARTMENT OF HEALTH, AND THE TOWN OF YORKTOWN REQUIREMENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE BEST MANAGEMENT PRACTICES (BMP'S) UNTIL GROUND COVER IS ESTABLISHED.
- REMOVE AND STOCKPILE TOPSOIL AS DIRECTED BY THE CONSTRUCTION MANAGER. REPLACE TOPSOIL TO A MINIMUM 4" DEPTH. ALL DISTURBED AREAS TO BE HYDROSEEDDED AS DIRECTED BY THE CONSTRUCTION MANAGER TO PROMOTE VEGETATION AS SOON AS PRACTICABLE.
- IF THE SEASONS PROHIBITS TEMPORARY SEEDING, THE DISTURBED AREAS WILL BE MULCHED WITH STRAW HAY OR EQUIVALENT AND ANCHORED IN ACCORDANCE WITH THE "STANDARDS", NETTING OR LIQUID MULCH BINDER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE AND REMOVAL OF TEMPORARY SEDIMENTATION CONTROLS. EROSION CONTROL MEASURES SHALL NOT BE REMOVED BEFORE 80% UNIFORM VEGETATION HAS BEEN ACHIEVED.
- ALL EROSION CONTROL MEASURES ARE TO BE REPLACED WHENEVER THEY BECOME CLOGGED OR INOPERABLE AND SHALL BE REPLACED WHEN THEY HAVE REACHED THE DESIGN LIFE INDICATED IN THE NYS GUIDELINES FOR URBAN EROSION SEDIMENT CONTROL DESIGN MANUAL OR EVERY THREE MONTHS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORATION OF TOPSOIL TO ALL DISTURBED AREAS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN EROSION CONTROL MEASURES AT ALL TIMES.
- THE CONTRACTOR SHALL DESIGNATE A MEMBER OF HIS/HER FIRM TO BE RESPONSIBLE TO MONITOR EROSION CONTROL AND EROSION CONTROL STRUCTURES THROUGHOUT CONSTRUCTION.
- ALL DISTURBED AREAS SHALL BE FINISH GRADED TO PROMOTE VEGETATION ON ALL EXPOSED AREAS AS SOON AS PRACTICABLE. STABILIZATION PRACTICES (TEMPORARY/PERMANENT SEEDING, MULCHING, GEOTEXTILES, ETC.) MUST BE IMPLEMENTED WITHIN SEVEN (7) DAYS WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, AND NOT EXPECTED TO RESUME WITHIN FOURTEEN (14) DAYS.
- PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES. ALL CONSTRUCTION DEBRIS AND SEDIMENT SPOILS, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAYS MUST BE REMOVED IMMEDIATELY.
- DUST SHALL BE CONTROLLED BY WATERING.
- ADJOINING PROPERTIES SHALL BE PROTECTED FROM EXCAVATION AND FILLING OPERATIONS ON THE PROPOSED SITE.
- EROSION CONTROL MEASURES SHOULD BE RELOCATED INWARD AS PERIMETER SLOPE CONSTRUCTION PROGRESSES AND RECONSTRUCTED TO THE NYS STANDARDS & SPECIFICATION AT THE END OF EACH DAY.
- PERMETER AREAS SHALL BE TEMPORARILY STABILIZED WITH SEED AND MULCH PROGRESSIVELY AT MINIMUM AT THE END OF EACH WEEK WITH 100% PERENNIAL RYEGRASS MIX AT A RATE OF 2-4 LBS PER 1000 SF AND MULCH 90-100 LBS PER 1000 SF OF WEED FREE STRAW.
- SLOPE TRACKING SHALL BE IMPLEMENTED ON ALL SLOPE 1 ON 3 OR GREATER AT THE END OF EACH WORK DAY AND PRIOR TO FINAL SLOPE GRADING AND STABILIZATION.

SITE STABILIZATION:

- WHEN FINAL GRADE IS ACHIEVED DURING NON-GERMINATING MONTHS, THE AREA SHOULD BE MULCHED UNTIL THE BEGINNING OF THE NEXT PLANTING SEASON.
- MULCHES SHOULD BE APPLIED AT THE RATES SHOWN IN THE MULCH APPLICATION RATES TABLE. VERY LITTLE BARE GROUND SHOULD BE VISIBLE THROUGH THE MULCH.
- STRAW AND HAY MULCH SHOULD BE ANCHORED OR TACKIFIED IMMEDIATELY AFTER APPLICATION TO PREVENT BEING WIND BLOWN. A TRACTOR-DRAWN IMPLEMENTS MAY BE USED TO "CRIMP" THE STRAW OR HAY INTO THE SOIL - ABOUT 3 INCHES. THIS METHOD SHOULD BE LIMITED TO SLOPES NO STEEPER THAN 3H:1V. THE MACHINERY SHOULD BE OPERATED ALONG THE CONTOUR. NOTE: CRIMPING OF HAY OR STRAW BY RUNNING OVER IT WITH TRACKED MACHINERY IS NOT RECOMMENDED.
- BEFORE SEEDING IS APPLIED THE CONTRACTOR SHALL SPREAD SOIL TO PREVENT PONDING AND CONFIRM THAT SOIL WILL SUSTAIN THE SEED GERMINATION AND ESTABLISHMENT OF VEGETATION.
- GRADED AREAS SHOULD BE SCARIFIED OR OTHERWISE LOOSENEED TO A DEPTH OF 3 TO 5 INCHES TO PERMIT BONDING OF THE TOPSOIL TO THE SURFACE AREAS AND TO PROVIDE A ROUGHENED SURFACE TO PREVENT TOPSOIL FROM SLIDING DOWN SLOPE. COMPACTED SOILS SHOULD BE SCARIFIED TO A DEPTH OF 6 TO 12 INCHES, ALONG CONTOUR WHEREVER POSSIBLE, PRIOR TO SEEDING.
- TOPSOIL OR AMENDED SOIL SHOULD BE UNIFORMLY DISTRIBUTED ACROSS THE DISTURBED AREA TO A MINIMUM DEPTH OF 6 INCHES. SPREADING SHOULD BE DONE IN SUCH A MANNER THAT SODDING OR SEEDING CAN PROCEED WITH A MINIMUM OF ADDITIONAL PREPARATION OR TILLAGE. IRREGULARITIES IN THE SURFACE RESULTING FROM TOPSOIL PLACEMENT SHOULD BE CORRECTED IN ORDER TO PREVENT FORMATION OF DEPRESSIONS.
- TOPSOIL SHOULD NOT BE PLACED WHILE THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MUDDY CONDITION. WHEN THE SUBSOIL IS EXCESSIVELY WET, OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING AND SEEDBED PREPARATION.
- WHEN USED AS A MULCH REPLACEMENT, THE APPLICATION RATE (THICKNESS) OF THE COMPOST SHOULD BE  $\frac{1}{2}$ " TO  $\frac{1}{4}$ ". COMPOST SHOULD BE PLACED EVENLY AND SHOULD PROVIDE 100% SOIL COVERAGE. NO SOIL SHOULD BE VISIBLE.
- POLYMERIC AND GUM TACKIFIERS MIXED AND APPLIED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS MAY BE USED TO TACK MULCH. AVOID APPLICATION DURING RAIN AND ON WINDY DAYS. A 24-HOUR CURING PERIOD AND A SOIL TEMPERATURE HIGHER THAN 45° F ARE TYPICALLY REQUIRED. APPLICATION SHOULD GENERALLY BE HEAVIEST AT EDGES OF SEEDED AREAS AND AT CRESTS OF RIDGES AND BANKS TO PREVENT LOSS BY WIND. THE REMAINDER OF THE AREA SHOULD HAVE BINDER APPLIED UNIFORMLY. BINDERS MAY BE APPLIED AFTER MULCH IS SPREAD OR SPRAYED INTO THE MULCH AS IT IS BEING BLOWN ONTO THE SOIL. APPLYING STRAW AND BINDER TOGETHER IS GENERALLY MORE EFFECTIVE.
- SYNTHETIC BINDERS, OR CHEMICAL BINDERS, MAY BE USED AS RECOMMENDED BY THE MANUFACTURER TO ANCHOR MULCH PROVIDED SUFFICIENT DOCUMENTATION IS PROVIDED TO SHOW THEY ARE NON-TOXIC TO NATIVE PLANT AND ANIMAL SPECIES.
- MULCH ON SLOPES OF 8% OR STEEPER SHOULD BE HELD IN PLACE WITH NETTING. LIGHTWEIGHT PLASTIC, FIBER, OR PAPER NETS MAY BE STAPLED OVER THE MULCH ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
- SHREDDED PAPER HYDROMULCH SHOULD NOT BE USED ON SLOPES STEEPER THAN 5%. WOOD FIBER HYDROMULCH MAY BE APPLIED ON STEEPER SLOPES PROVIDED A TACKIFIER IS USED. THE APPLICATION RATE FOR ANY HYDROMULCH SHOULD BE 2,000 LB/ACRE AT A MINIMUM.
- LIME, FERTILIZER, SEED, AND MULCH DISTURBED AREAS PER THE EROSION AND SEDIMENT CONTROL PLANS. IN AREAS OF STEEP SLOPES OR OBVIOUS AREAS WHERE POTENTIAL EROSION MAY OCCUR, AN EROSION CONTROL MAT OR FLEXIBLE GROWTH MEDIUM (FGM) SHALL BE USED. FGM SHALL BE APPLIED PER MANUFACTURER SPECIFICATIONS.
- ONCE A SECTION OF THE ALIGNMENT HAS BEEN STABILIZED, NO CONSTRUCTION TRAFFIC SHALL OCCUR TO REMOVE ANY BMP'S UNTIL THE SECTION HAS ACHIEVED 80% PERENNIAL VEGETATIVE COVER. AN AREA SHALL BE CONSIDERED TO HAVE ACHIEVED FINAL STABILIZATION WHEN IT HAS A MINIMUM 80% PERENNIAL VEGETATIVE COVER OR OTHER PERMANENT NONVEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING OR OTHER MOVEMENTS.



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**HESP SOLAR, LLC**

**YORKTOWN  
GRANITE KNOLLS**

2975 STONEY STREET  
MOHEGAN LAKE, NY 10547

Date Revised	Description

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Project Manager	Discipline Lead
<b>ECR</b>	<b>ECR</b>
Designer	Reviewer
<b>AG</b>	<b>MDP</b>
Date Issued	Project Number
<b>09/15/2021</b>	<b>14064.11</b>

Sheet Name

**GENERAL NOTES**

Drawing Number

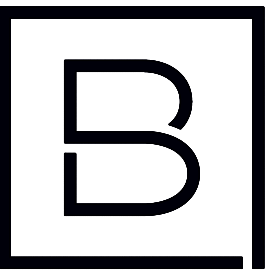
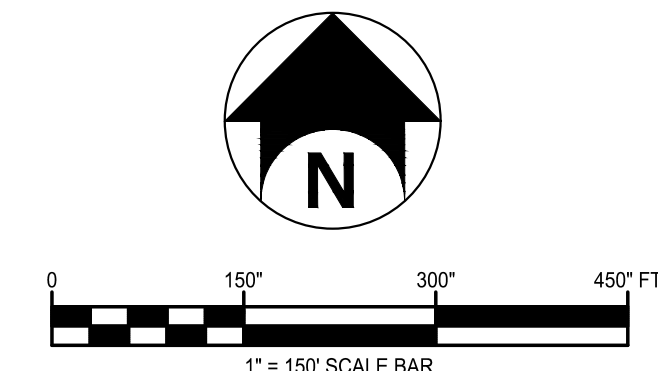
**C001**



NUMBER	TAX ID	PARCEL OWNER
1	26.13-1-11	JOESEPH II DARONCO
2	26.13-1-12	RICHARD & HERNANDEZ
3	26.13-1-13	MARK & MARY CONNELLY
4	26.13-1-14	JOESEPH & KEARNS
5	26.13-1-15	FRANK & LAUREN FONTANA

NUMBER	TAX ID	PARCEL OWNER
6	26.14-1-5	EMANUEL GUTZMER
7	26.14-1-3	MYRA & HELFAND
8	26.14-1-4	EDWIN & LYDIA CUEVO
9	26.13-1-4	YING & ZHONG CHENYIN LI
10	26.13-1-5	PHILIP & CHERYL MARIANO

NUMBER	TAX ID	PARCEL OWNER
11	26.13-1-6	STALYN & MARMOLEJOS
12	26.13-1-8	RIHCHARD & JABLONSKI
13	26.13-1-7	ROGER & PICCIRILLI
14	26.13-1-3	MYRA & HELFAND
15	26.14-1-2	TOWN OF YORKTOWN PARKLAND



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Project Manager	Discipline Lead
Designer	Reviewer
AG	MDP
Date Issued	Project Number
09/15/2021	15111.00

Sheet Name

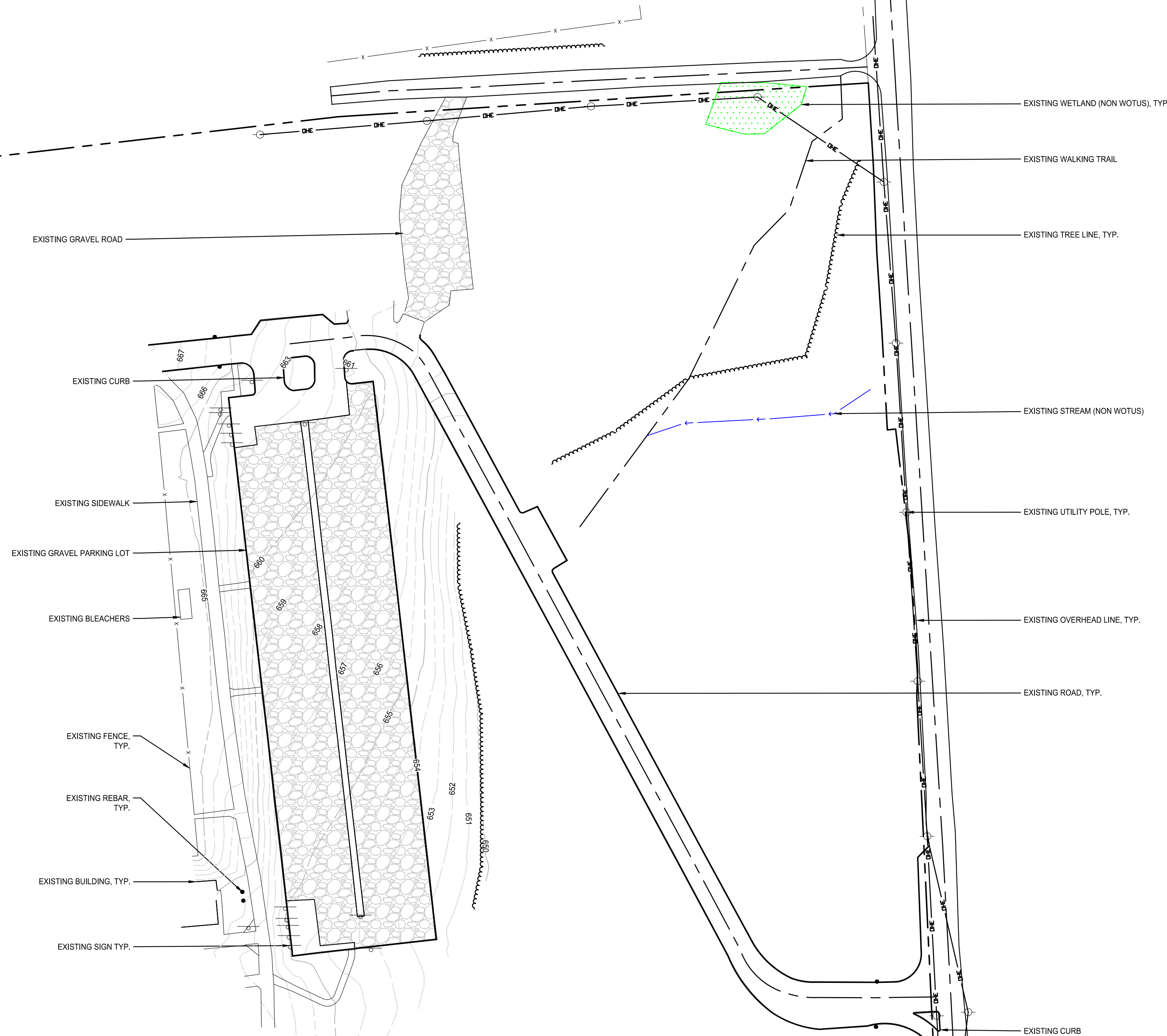
**AREA PARCEL PLAN**

Drawing Number

**C002**

3151 STOMEY ST. LLC  
L.9844 P.274  
TAX ID# 26.05-1-4

TOWN OF YORKTOWN PARKLAND  
TAX ID# 26.09-1-22  
AREA = 3,187,657± SQ. FT.  
OR 73.17± ACRES



**NOTES:**

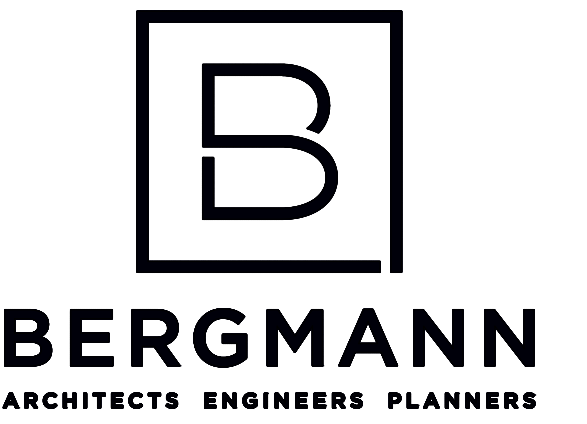
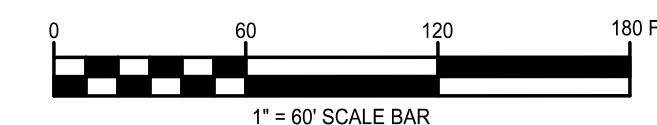
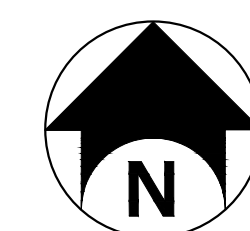
- 1) PROPERTY IS LOCATED IN ZONE X AS SHOWN ON THE FLOOD INSURANCE RATE MAP FOR THE TOWN OF YORKTOWN, COUNTY OF WESTCHESTER, STATE OF NEW YORK, COMMUNITY PANEL NUMBER 36119C0037F, EFFECTIVE DATE SEPTEMBER 28, 2007.
- 2) THE UNDERGROUND UTILITIES SHOWN HEREON ARE BASED ON AN INSTRUMENT LOCATION OF THE ABOVE GROUND FEATURES (MANHOLES, VALVES, HYDRANTS, ETC.) ALONG WITH RECORD UTILITY PLANS AND STAKEOUT IN THE FIELD BY THEIR RESPECTIVE COMPANIES. UNDERGROUND UTILITIES ARE NOT CERTIFIED TO THEIR LOCATION OR COMPLETENESS.
- 3) NO ABSTRACT OF TITLE PROVIDED, PROPERTY IS SUBJECT TO ANY EASEMENTS, ENCUMBRANCES OR RESTRICTIONS THAT AN ABSTRACT OF TITLE WOULD SHOW.
- 4) THE HORIZONTAL DATUM IS REFERENCED TO THE NEW YORK STATE PLANE COORDINATE SYSTEM, EAST ZONE (NAD 83) THROUGH GPS OBSERVATIONS.
- 5) THE VERTICAL DATUM IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) THROUGH GPS OBSERVATIONS.
- 6) THERE IS NO EVIDENCE OF RECENT EARTH MOVING WORK, BUILDING CONSTRUCTION, OR BUILDING ADDITIONS OBSERVED IN THE PROCESS OF CONDUCTING THE FIELDWORK.
- 7) THERE IS NO EVIDENCE OF ANY PROPOSED CHANGES IN STREET RIGHT OF WAY LINES. THERE IS NO EVIDENCE OF RECENT STREET OR SIDEWALK CONSTRUCTION OR REPAIRS OBSERVED IN THE PROCESS OF CONDUCTING THE FIELDWORK.
- 8) THERE WERE NO WETLAND DELINEATION MARKERS OBSERVED IN THE PROCESS OF CONDUCTING THE FIELDWORK.
- 9) THE INSURED PROPERTY AS DESCRIBED IN THE TITLE COMMITMENT IS THE SAME AS THE PROPERTY SHOWN HEREON.

**REFERENCES:**

- 1) THE FOLLOWING DEEDS FILED IN THE WESTCHESTER COUNTY CLERK'S OFFICE:  
CONTROL #502713410  
CONTROL #572913900
- 2) TITLE REPORT BY XXXXXXXX, TITLE #XXXXXXX DATED XXXXX, 2021.

**LEGEND**

	PROPERTY LINE
	ADJOINER PROPERTY LINE
	STONE WALL
	ROAD CENTERLINE
	OVERHEAD WIRE
	EXISTING FENCE
	STREAM CENTERLINE
	CONTOUR - MAJOR
	CONTOUR - MINOR
	SWALE CENTERLINE
	EDGE OF ASPHALT
	EXISTING TREELINE
	EXISTING WETLAND (PEM - NON WOTUS)
	EXISTING GRAVEL ROAD
	UTILITY POLE
	IRON MONUMENT
	FOUND CONCRETE MONUMENT
	EXISTING SIGN
	GUY WIRE



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**HESP SOLAR, LLC**

**YORKTOWN  
GRANITE KNOLLS**

2975 STONEY STREET  
MOHEGAN LAKE, NY 10547

Date Revised	Description

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Project Manager <b>ECR</b>	Discipline Lead <b>ECR</b>
Designer <b>AG</b>	Reviewer <b>MDP</b>
Date Issued <b>09/15/2021</b>	Project Number <b>15111.00</b>

Sheet Name

**EXISTING CONDITIONS**

Drawing Number

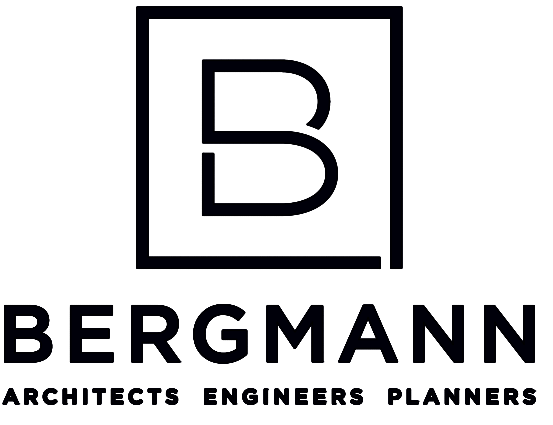
**C003**



3151 STOMEY ST. LLC  
L.9844 P.274  
TAX ID# 26.05-1-4

TOWN OF YORKTOWN PARKLAND  
TAX ID# 26.09-1-22  
AREA = 3,187,657± SQ. FT.  
OR 73.17± ACRES

- PROPOSED 20 FT WIDE DOUBLE SWING GATE WITH KNOX BOX
- PROPOSED 7 FT HIGH PERIMETER FENCE (AREA INSIDE FENCE = 14± AC)
- PROPOSED SOLAR GROUND MOUNT SYSTEM
- PROPOSED CONCRETE EQUIPMENT PAD
- PROPOSED UTILITY POLE, TYP.
- PROPOSED BATTERY STORAGE SYSTEM
- PROPOSED TREELINE, TYP.



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ECR	ECR
Designer	Reviewer
AG	MDP
Date Issued	Project Number
09/15/2021	15111.00

Sheet Name

**OVERALL SITE PLAN**

Drawing Number

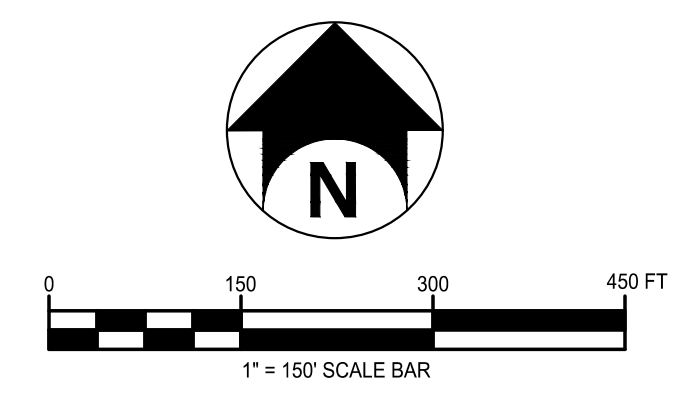
**C004**

SITE PLAN DATA TABLE		
SITE IS LOCATED IN THE "R1-160" ONE-FAMILY RESIDENTIAL		
PROPOSED USE: SOLAR ENERGY SYSTEM		
PARCEL 26.09-1-22		
TOWN OF YORKTOWN, COUNTY OF WESTCHESTER		
STATE OF NEW YORK		
APPLICANT: HESP SOLAR, LLC 400 RELLA BOULEVARD, SUITE 160 SUFFERN, NY, 10901 INFO@HESP-SOLAR.COM	OWNER(S) OF RECORD: TOWN OF YORKTOWN PARKLAND	
PLANS PREPARED BY: BERGMANN 2 WINNERS CIRCLE, SUITE 102 ALBANY, NY 12205 (518) 862-0325		
DESCRIPTION	REQUIRED	PROPOSED
MIN. LOT SIZE	N/A	3,187,657± SF
MINIMUM LOT WIDTH	N/A	1,700± FT
MIN. SIDE YARD SETBACK	30 FT	37± FT
MIN. FRONT YARD SETBACK	75 FT	80± FT
MIN. REAR YARD SETBACK	75 FT	750± FT

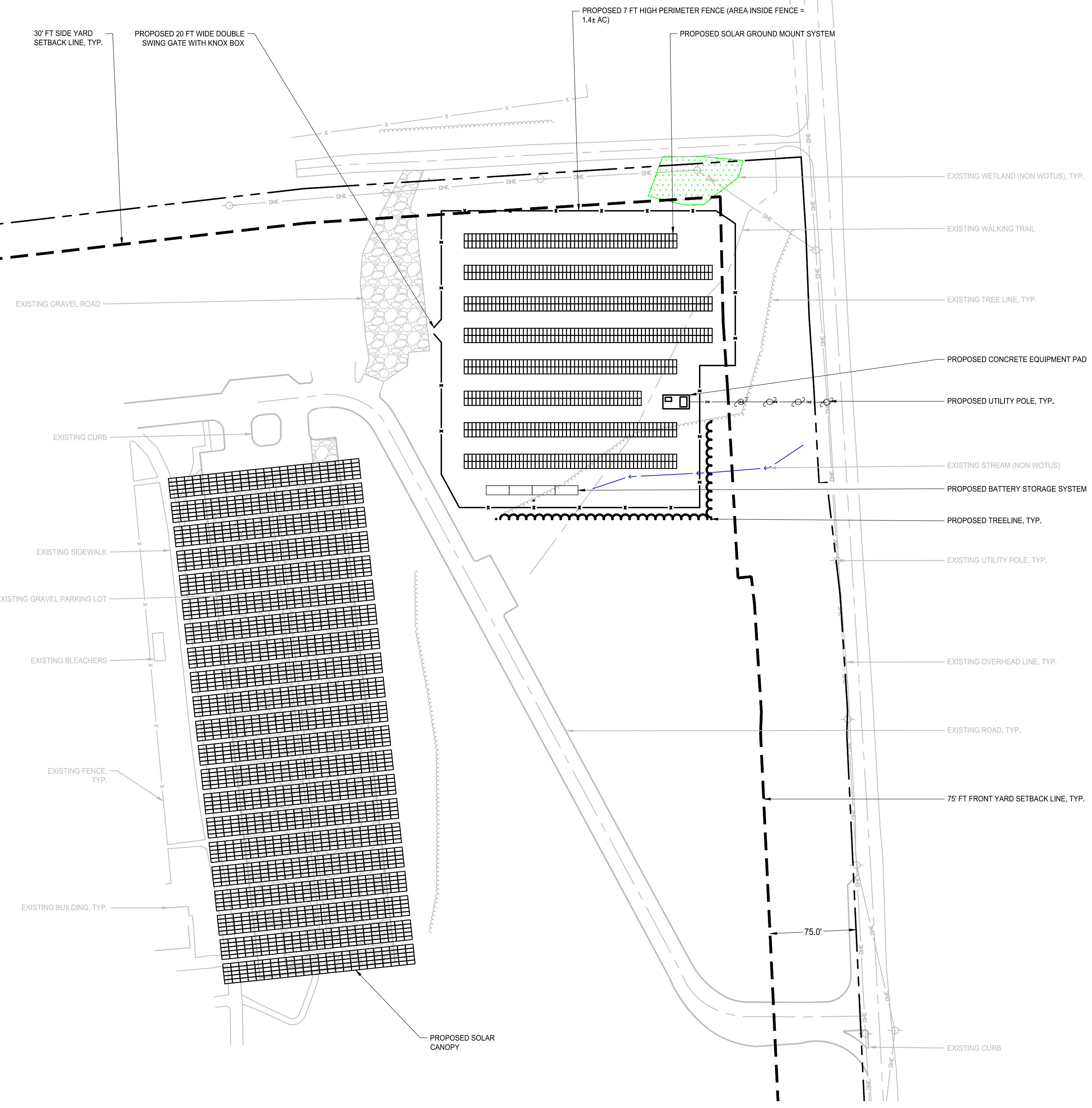
**NOTES**

- REQUIRED ZONING STANDARDS REFLECT THE MOST STRICT RESIDENTIAL ZONING REQUIREMENTS OF THE TOWN OF YORKTOWN PER SECTION 300 ATTACHMENT 1 APPENDIX A RESIDENCE ZONE STANDARDS.

LEGEND	
	PROPERTY LINE
	SET BACK LINE
	STONE WALL
	ADJOINER PROPERTY LINE
	ROAD RIGHT-OF-WAY
	EXISTING ROAD CENTERLINE
	EXISTING OVERHEAD WIRE
	EXISTING STREAM CENTERLINE
	PROPOSED FENCE LINE
	EXISTING FENCE LINE
	PROPOSED OVERHEAD UTILITY LINE
	PROPOSED UNDERGROUND UTILITY LINE
	PROPOSED SWALE
	PROPOSED TREELINE
	SWALE CENTERLINE
	EXISTING BUILDING
	EXISTING EDGE OF ASPHALT
	EXISTING TREELINE
	EXISTING WETLAND (PEM - NON WOTUS)
	PROPOSED SOLAR CANOPY
	PROPOSED SOLAR PANEL
	EXISTING UTILITY POLE
	PROPOSED UTILITY POLE



3151 STOMEY ST. LLC  
L 9844 P.274  
TAX ID# 26.05-1-4



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Project Manager <b>ECR</b>	Discipline Lead <b>ECR</b>
Designer <b>AG</b>	Reviewer <b>MDP</b>
Date Issued <b>09/15/2021</b>	Project Number <b>15111.00</b>

Sheet Name

**SITE PLAN**

Drawing Number

**C005**

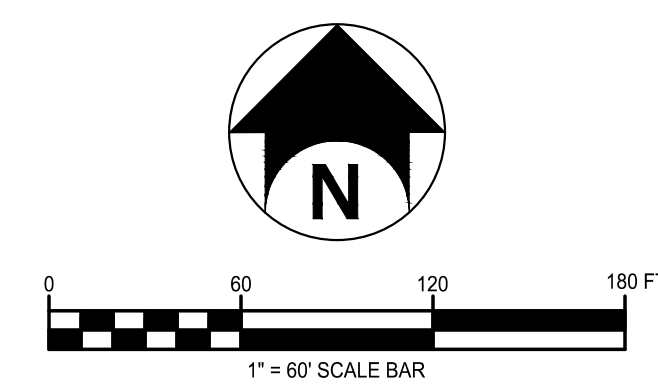
SITE PLAN DATA TABLE		
SITE IS LOCATED IN THE "R1-160" ONE-FAMILY RESIDENTIAL		
PROPOSED USE: SOLAR ENERGY SYSTEM		
PARCEL 26.09-1-22		
TOWN OF YORKTOWN, COUNTY OF WESTCHESTER		
STATE OF NEW YORK		
APPLICANT: HESP SOLAR, LLC 400 RELLA BOULEVARD, SUITE 160 SUFFERN, NY, 10901 INFO@HESPSOLAR.COM	OWNER(S) OF RECORD: TOWN OF YORKTOWN PARKLAND	
PLANS PREPARED BY: BERGMANN 2 WINNERS CIRCLE, SUITE 102 ALBANY, NY 12205 (518) 862-0325		
DESCRIPTION	REQUIRED	PROPOSED
MIN. LOT SIZE	N/A	3,187.657± SF
MINIMUM LOT WIDTH	N/A	1,700± FT
MIN. SIDE YARD SETBACK	30 FT	37± FT
MIN. FRONT YARD SETBACK	75 FT	80± FT
MIN. REAR YARD SETBACK	75 FT	750± FT

**LEGEND**

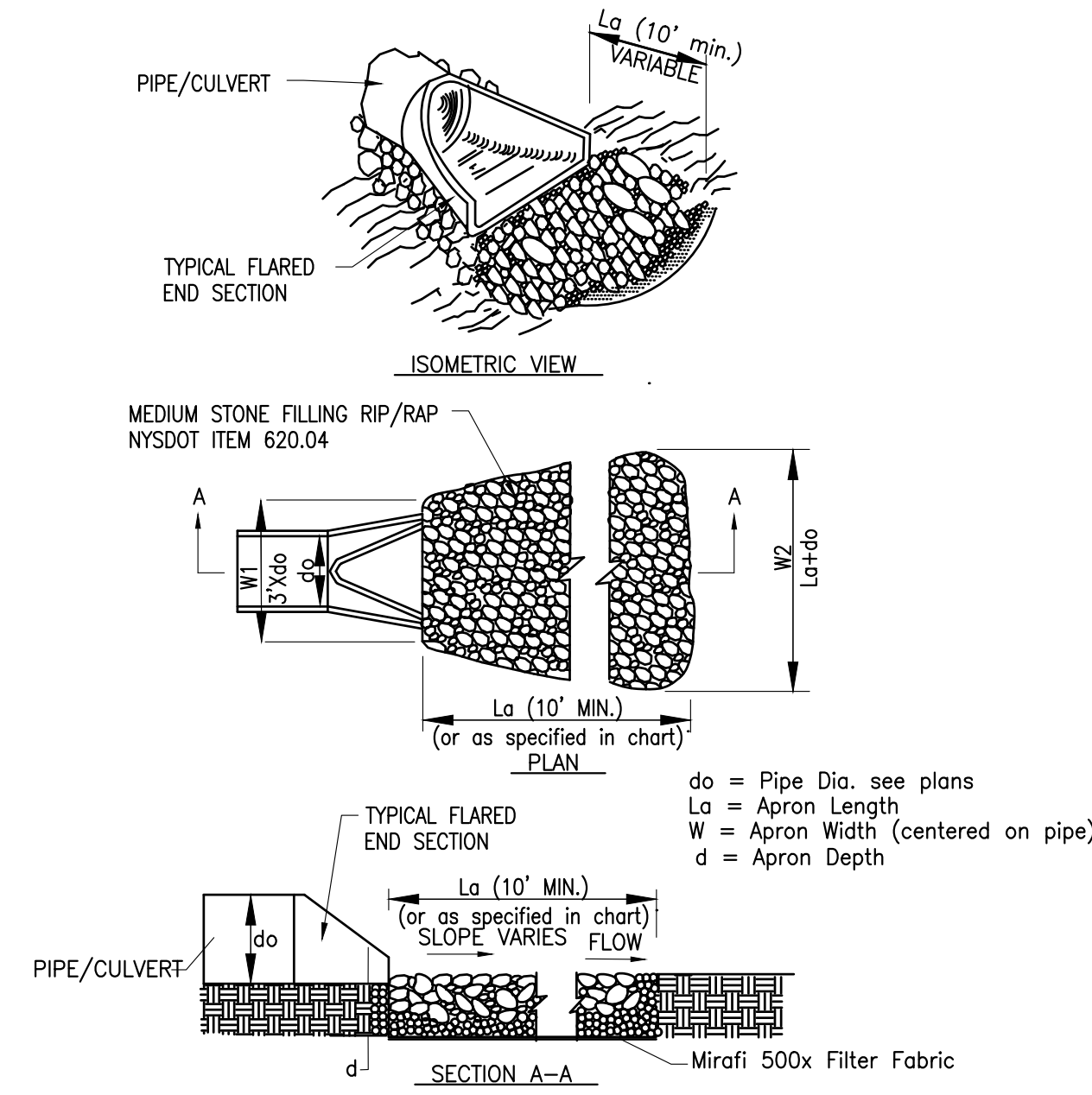
---	PROPERTY LINE	---	EXISTING EDGE OF ASPHALT
- - -	SET BACK LINE	---	EXISTING TREELINE
-----	STONE WALL	---	EXISTING GRAVEL ROAD
-----	ADJOINER PROPERTY LINE	---	EXISTING WETLAND (PEM - NON WOTUS)
-----	ROAD RIGHT-OF-WAY	---	PROPOSED SOLAR PANEL
-----	EXISTING ROAD CENTERLINE	---	EXISTING UTILITY POLE
-----	EXISTING OVERHEAD WIRE	---	PROPOSED UTILITY POLE
-----	EXISTING STREAM CENTERLINE	---	
-----	PROPOSED FENCE LINE	---	
-----	EXISTING FENCE LINE	---	
-----	PROPOSED OVERHEAD UTILITY LINE	---	
-----	PROPOSED UNDERGROUND UTILITY LINE	---	
-----	PROPOSED SWALE	---	
-----	PROPOSED TREELINE	---	
-----	SWALE CENTERLINE	---	
-----	EXISTING BUILDING	---	

**NOTES**

1. REQUIRED ZONING STANDARDS REFLECT THE MOST STRICT RESIDENTIAL ZONING REQUIREMENTS OF THE TOWN OF YORKTOWN PER SECTION 300 ATTACHMENT 1 APPENDIX A RESIDENCE ZONE STANDARDS.



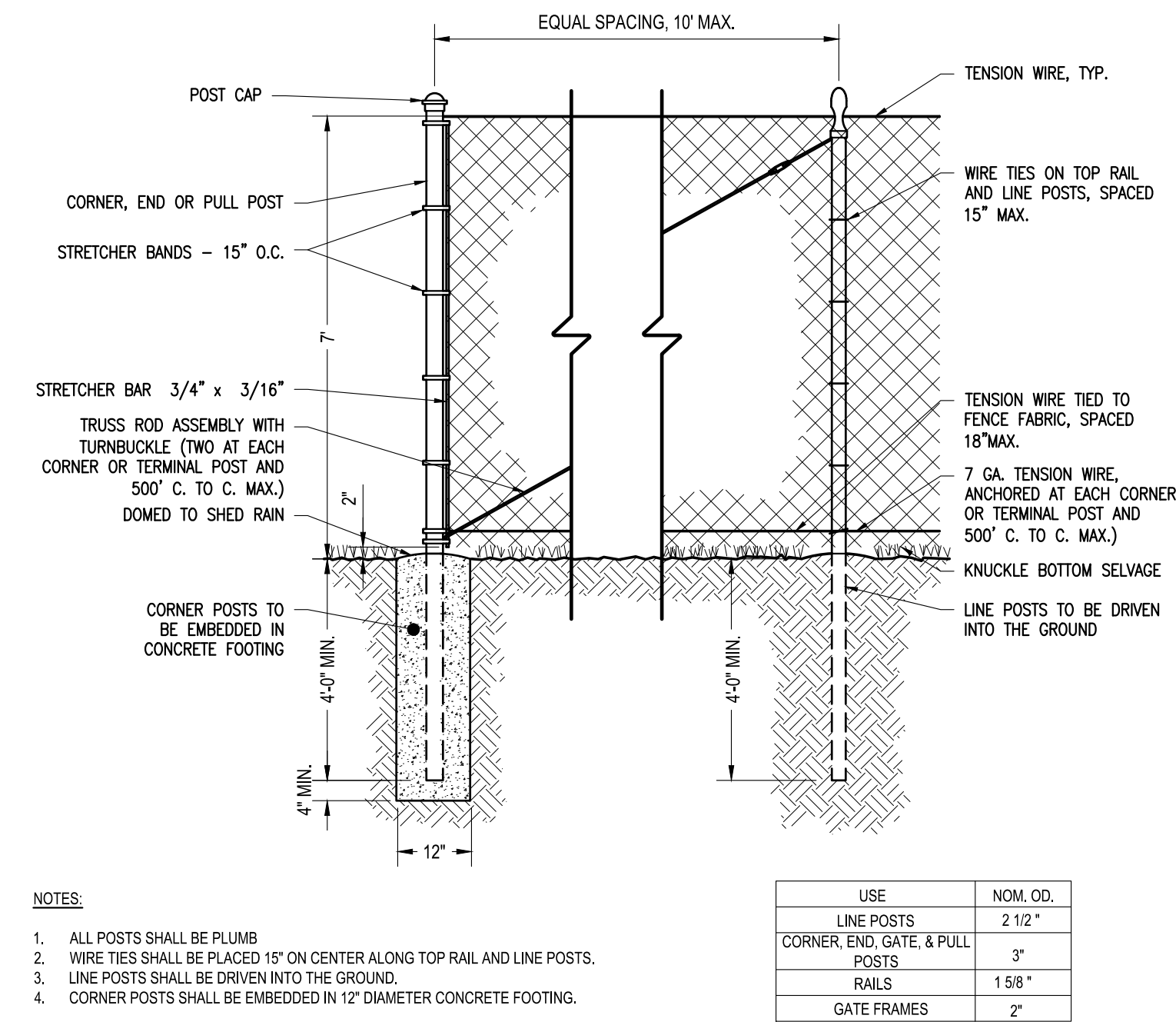




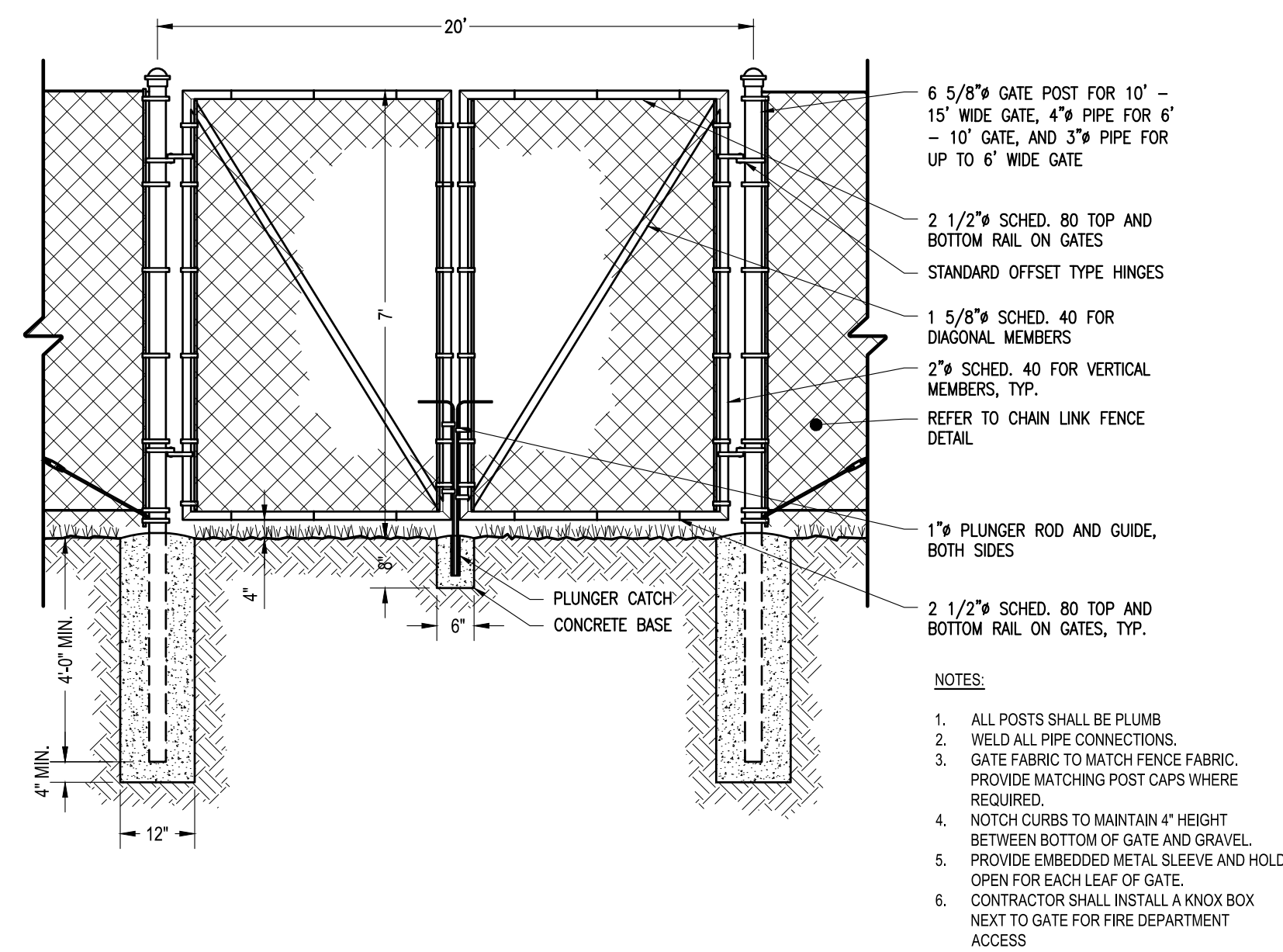
PIPE DIA.	W1-MINIMUM	W2-MINIMUM	La-MINIMUM	D-MINIMUM
12"	3'	15'	14'	13.5"
18"	4.5'	15.5'	14'	13.5"
24"	6'	15'	13'	13.5"

- NOTES:
- d = 1.5 TIMES THE MAXIMUM STONE DIAMETER BUT NO LESS THAN 6".
  - INSTALL FILTER MIRAFI 500X OR APPROVED EQUAL FILTER FABRIC BETWEEN RIP-RAP AND SUBGRADE

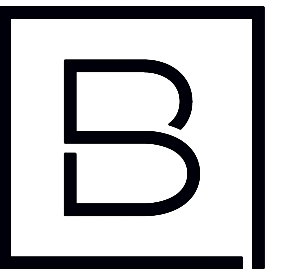
**OUTLET PROTECTION RIP-RAP APRON**  
N.T.S.



**CHAIN-LINK FENCE DETAIL**  
N.T.S.



**CHAIN-LINK FENCE GATE DETAIL**  
N.T.S.



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ARCHITECTS ENGINEERS PLANNERS

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Albany, NY 12205  
www.bergmannpc.com  
office: 518.862.0325

**HESP SOLAR, LLC**

**YORKTOWN  
GRANITE KNOLLS**

2975 STONEY STREET  
MOHEGAN LAKE, NY 10547

Date Revised Description

NOT FOR  
CONSTRUCTION  
0 % SUBMISSION

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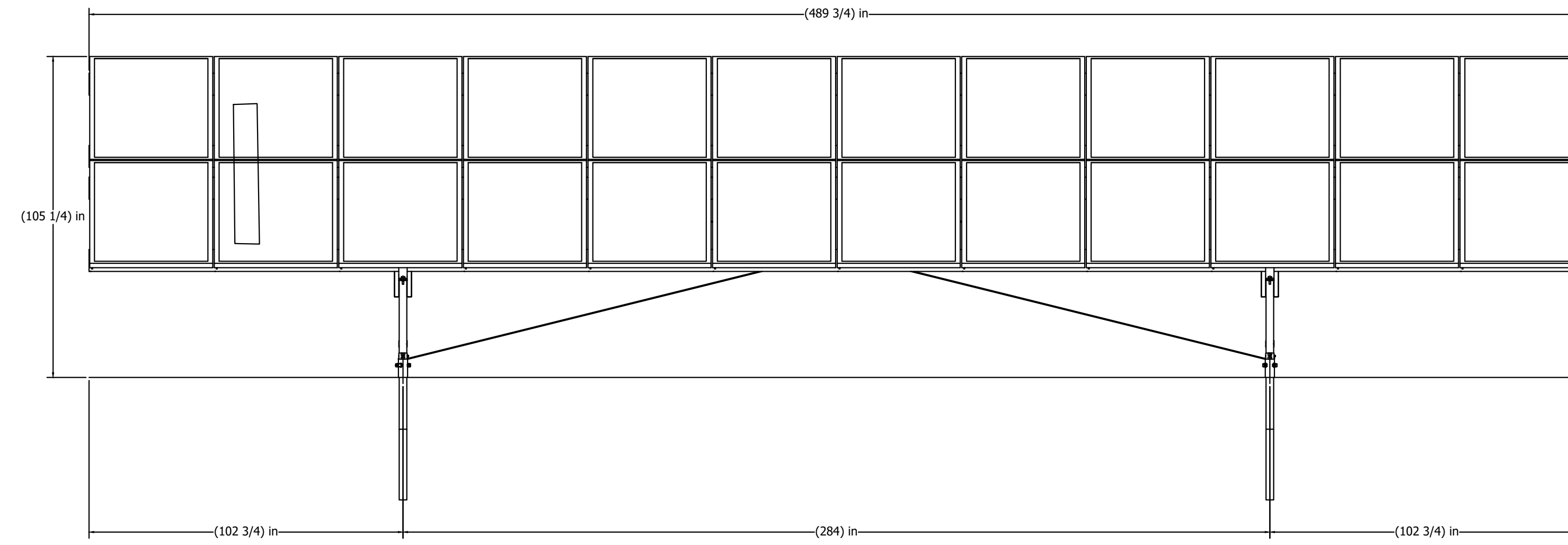
Project Manager	Discipline Lead
ECR	ECR
Designer	Reviewer
AG	MDP
Date Issued	Project Number
09/15/2021	15111.00

Sheet Name

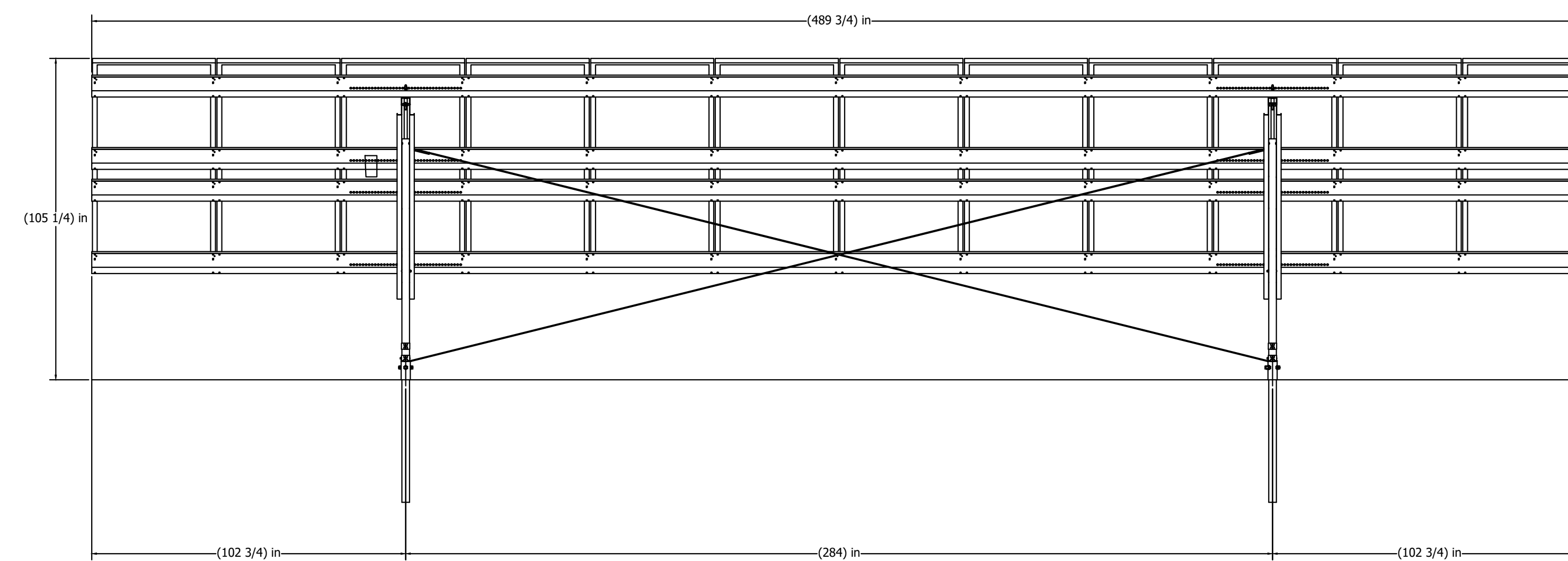
**DETAILS I**

Drawing Number

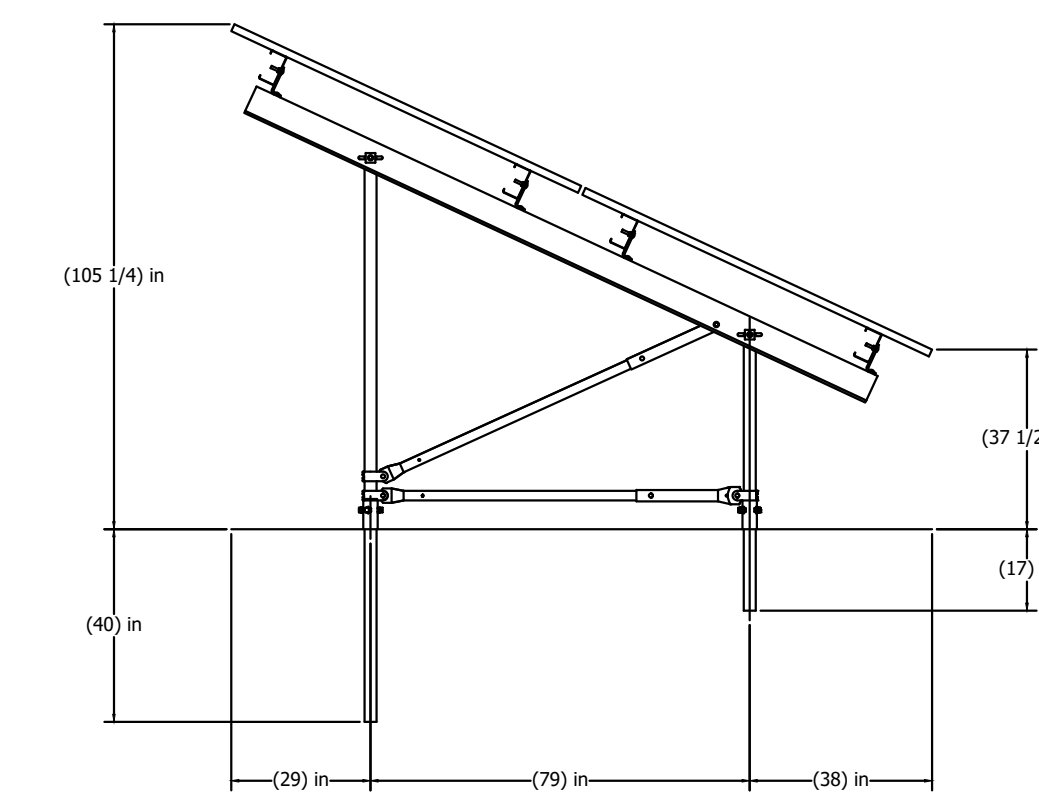
**C006**



FRONT ELEVATION VIEW



REAR ELEVATION VIEW



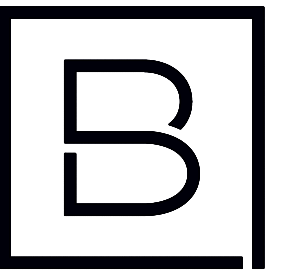
SIDE ELEVATION VIEW

NOTES:

1. TYPICAL INSTALLATION DIMENSIONS MAY BE ADJUSTED TO SUIT FIELD CONDITIONS.
2. FINAL DESIGN AND ENGINEERING PLANS TO BE PROVIDED BY THE RACKING MANUFACTURER.

SOLAR ARRAY DETAIL

N.T.S.



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Project Manager	Discipline Lead
<b>ECR</b>	<b>ECR</b>
Designer	Reviewer
<b>AG</b>	<b>MDP</b>
Date Issued	Project Number
<b>09/15/2021</b>	<b>15111.00</b>

Sheet Name

**DETAILS II**

Drawing Number

**C007**

UPLAND SEED MIX		
LOW-GROWING WILDFLOWER & GRASS MIX - ERNMX #156		
SEEDING RATE: 20 LB PER ACRE WITH A COVER CROP OF GRAIN RYE AT 30 LB PER ACRE		
SCIENTIFIC NAME	COMMON NAME	% OF MIX
FESTUCA OVINA	SHEEP FESCUE, VARIETY NOT STATED	63.60%
LOLIUM MULTIFLORUM (L. PERENNE VAR. ITALICUM)	ANNUAL RYEGRASS	17%
LINUM PERENNE SSP. LEWISII	PERENNIAL BLUE FLAX	8%
RUDBECKIA HIRTA	BLACKEYED SUSAN, COASTAL PLAIN NC ECOTYPE	2%
COREOPSIS LANCEOLATA	LANCELEAF COREOPSIS, COASTAL PLAIN NC ECOTYPE	2%
CHRYSANTHEMUM LEUCANTHEMUM	OXEYE DAISY	2%
CHRYSANTHEMUM MAXIMUM	SHASTA DAISY	1%
CHAMAECRISTA FASCICULATA (CASSIA F.)	PARTRIDGE PEA, PA ECOTYPE	1%
PAPAVER RHOEAS, SHIRLEY MIX	CORN POPPY/SHIRLEY MIX	1%
ACHILLEA MILLEFOLIUM	COMMON YARROW	0.5%
ASTER OBLONGIFOLIUS (SYMPHYOTRICHUM OBLONGIFOLIUM)	AROMATIC ASTER, PA ECOTYPE	0.5%
EUPATORIUM COELESTINUM (CONOCLINIUM C.)	MISTFLOWER, VA ECOTYPE	0.5%
MONARDA PUNCTATA, COASTAL PLAIN SC ECOTYPE	SPOTTED BEEBALM, COASTAL PLAIN SC ECOTYPE	0.5%
ASCLEPIAS TUBEROSA	BUTTERFLY MILKWEED	0.3%
PYCNANTHEMUM TENUIFOLIUM	SLENDER MOUNTAINMINT	0.1%
COMPANY INFORMATION		
ERNST CONSERVATION SEEDS, INC.		
ADDRESS: 8884 MERCER PIKE, MEADVILLE, PA 16335		
PHONE: (800) 873-3321		
WEB: HTTP://WWW.ERNSTSEED.COM		

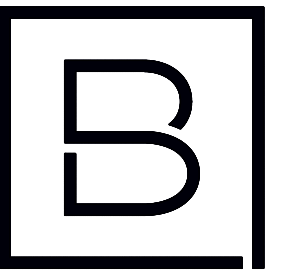
\*OR APPROVED EQUIVALENT

**SITE STABILIZATION - SEED MIX**  
N.T.S.

SOIL AMENDMENT APPLICATION RATE EQUIVALENTS					
SOIL AMENDMENT	PER ACRE	PER 1,000 SQ. FT.	PER 1,000 SQ. YD.	NOTES	
TEMPORARY SEEDING	AGRICULTURAL LIME	6 TONS	240 LB.	2,480 LB.	OR AS PER SOIL TEST: MAY NOT BE REQUIRED IN AGRICULTURAL FIELDS
	10-10-20 FERTILIZER	1,000 L.B.	25 LB.	210 LB.	
TEMPORARY SEEDING	AGRICULTURAL LIME	1 TON	40 LB.	410 LB.	TYPICALLY NOT REQUIRED FOR TOPSOIL STOCKPILES
	10-10-20 FERTILIZER	500 LB.	12.5 LB.	100 LB.	
COMPOST STANDARDS					
ORGANIC MATTER CONTENT		80% - 100% (DRY WEIGHT BASIS)			
ORGANIC PORTION		FIBROUS AND ELONGATED			
pH		5.5 - 8.0			
MOISTURE CONTENT		35% - 55%			
PARTICLE SIZE		98% PASS THROUGH 1" SCREEN			
SOLUBLE SALT CONCENTRATION		5.0 dS/m (mmhos/cm) MAXIMUM			
MULCH APPLICATION RATES					
MULCH TYPE	APPLICATION RATE (MIN.)			NOTES	
	PER ACRE	PER 1,000 SQ. FT.	PER 1,000 SQ. YD.		
STRAW	3 TONS	140 LB.	1,240 LB.	EITHER WHEAT OR OAT STRAW, FREE OF WEEDS, NOT CHOPPED OR FINELY BROKEN	
HAY	3 TONS	140 LB.	1,240 LB.	TIMOTHY, MIXED CLOVER AND TIMOTHY, OR OTHER NATIVE FORAGE GRASSES	
WOOD CELLULOSE	1,500 LB.	35 LB.	310 LB.	DO NOT USE ALONE IN WINTER, DURING HOT AND DRY WEATHER OR ON STEEP SLOPES (> 3:1)	
WOOD	1,000 LB. CELLULOSE	25 LB.	210 LB.	WHEN USED OVER STRAW OR HAY	
WOOD CHIPS	4 - 6 TONS	185 - 275 LB.	1,650 - 2,500 LB.	MAY PREVENT GERMINATION OF GRASSES AND LEGUMES	

NOTES:

- WHEN FINAL GRADE IS ACHIEVED DURING NON-GERMINATING MONTHS, THE AREA SHOULD BE TEMPORARILY STABILIZED UNTIL THE BEGINNING OF THE NEXT PLANTING SEASON.
- MULCHES SHOULD BE APPLIED AT THE RATES SHOWN IN THE MULCH APPLICATION RATES TABLE. VERY LITTLE BARE GROUND SHOULD BE VISIBLE THROUGH THE MULCH.
- STRAW AND HAY MULCH SHOULD BE ANCHORED OR TACKIFIED IMMEDIATELY AFTER APPLICATION TO PREVENT BEING WINDBLOWN.
- TOPSOIL SHOULD BE UNIFORMLY DISTRIBUTED ACROSS THE DISTURBED AREA TO A DEPTH OF 4 INCHES MINIMUM. SPREADING SHOULD BE DONE IN SUCH A MANNER THAT SEEDING CAN PROCEED WITH A MINIMUM OF ADDITIONAL PREPARATION OR TILLAGE.
- TOPSOIL SHOULD NOT BE PLACED WHILE THE TOPSOIL OF SUBSOIL IS IN A FROZEN OR MUDDY CONDITION, WHEN THE SUBSOIL IS EXCESSIVELY WET, OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING AND SEEDBED PREPARATION.
- WHEN USED AS A MULCH REPLACEMENT, THE APPLICATION RATE (THICKNESS) OF THE COMPOST SHOULD BE 1/2" TO 3/4". COMPOST SHOULD BE PLACED EVENLY AND SHOULD PROVIDE 100% SOIL COVERAGE. NO SOIL SHOULD BE VISIBLE.
- BLANKETING SHALL BE USED ON ALL SLOPES 3H:1V OR STEEPER OR AS NOTED ON THE PLANS.
- PERMANENT STABILIZATION SHALL BE INSTALLED IMMEDIATELY UPON COMPLETION OF EARTH DISTURBANCE.



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Project Manager	Discipline Lead
<b>ECR</b>	<b>ECR</b>
Designer	Reviewer
<b>AG</b>	<b>MDP</b>
Date Issued	Project Number
<b>09/15/2021</b>	<b>15111.00</b>

Sheet Name

**DETAILS III**

Drawing Number

**C008**

# **Roberta Front Street Site Plan**

# Site Design Consultants

Civil Engineers • Land Planners

October 5, 2021

Mr. Richard Fon, Chairman  
Members of the Yorktown Planning Board  
1974 Commerce Street – Room 202  
Yorktown Heights, NY 10598

Re: Resolution 19-29  
George Roberta Front Street

Dear Chairman Fon and Members of the Planning Board:

We are respectfully requesting a 2<sup>nd</sup> One-Year Time Extension from Approving Resolution #19-29, dated October 21, 2019, which is expiring October 21, 2021.

Please place this project on the Planning Board Agenda for discussion and approval.

With thanks for your continuing courtesy and consideration.

Sincerely,

  
Joseph C. Riina, P.E.

/cm/sdc 15-58



# **Mongero Site Plan**

# Site Design Consultants

Civil Engineers • Land Planners

RECEIVED  
PLANNING DEPARTMENT

OCT 1 2021

TOWN OF YORKTOWN

September 30, 2021

Mr. Richard Fon, Chairman  
Members of the Yorktown Planning Board  
1974 Commerce Street  
Yorktown Heights, NY 10598

Re: Mongero Properties LLC - Route 118 Downing Drive Property  
Section 10.13 Parcel 21 Lot 6

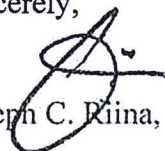
Dear Chairman Fon and Members of the Planning Board:

We are requesting a Re-approval of the Site Plan which time extension expires on October 19, 2021.

Please place this meeting on the next Planning Board Agenda.

With thanks for your continuing courtesy and consideration,

Sincerely,

  
Joseph C. Riina, P.E.

cc: John Mongero

JCR/cm/sdc 04-23

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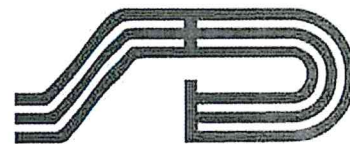
251-F Underhill Avenue • Yorktown Heights, New York 10598

60 Walnut Grove Road • Ridgefield, Connecticut 06877

(914) 962-4488

(203) 431-9504

Fax (914) 962-7386



# Site Design Consultants

Civil Engineers • Land Planners

September 30, 2021

Mr. Richard Fon, Chairman  
Members of the Yorktown Planning Board  
1974 Commerce Street  
Yorktown Heights, NY 10598

RECEIVED  
PLANNING DEPARTMENT

OCT 1 2021

TOWN OF YORKTOWN

Re: Mongero Properties LLC - Route 118 Downing Drive Property  
Section 10.13 Parcel 21 Lot 6

Dear Chairman Fon and Members of the Planning Board:

We have reviewed the Town approvals granted and the SEQRA process as related to the Mongero Properties project. During the review process, the project impacts were assessed as a result of the action. Each aspect of potential impacts was carefully studied. These include but are not limited to:

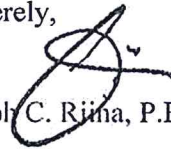
- Traffic impacts;
- Impacts on water bodies or wetlands;
- Impacts due to increased stormwater runoff;
- Potential of erosion due to the project during and post-development;
- The disposal of sanitary and household waste;
- The supply of domestic water;
- Impacts to animal habitat;
- Impacts to the community;
- Other important impacts;

During this process and review, it was determined that the project as presented would not have a negative impact if implemented as approved. Subsequent to the approval granted for this project, there have been no changes in any laws, regulations or rules of any jurisdiction involved in the process. The agencies involved in the review of this project include the Town of Yorktown, Westchester County Department of Health, NYS Department of Transportation, and the NYC Department of Environmental Protection.

Further, any changes which have occurred as a result of an outside agency review have not changed the potential for impacts due to the project. Therefore, the record created by Planning Board and the SEQRA review are still valid to the project as it currently exists.

The Westchester County Department of Health has reapproved the extension for the public water improvements. The NYC DEP approvals are still in good-standing, as well as the NYS DOT.

Sincerely,

  
Joseph C. Rima, P.E.

cc: J. Mongero  
JCR/cm/sdc 04-23

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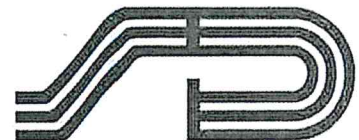
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60 Walnut Grove Road • Ridgefield, Connecticut 06877

(914) 962-4488

(203) 431-9504

Fax (914) 962-7386





# LAW OFFICES OF GRACE & GRACE

The Grace Building  
360 Underhill Avenue  
Yorktown Heights, New York 10598-4517  
(914) 962-6100 \* Fax (914) 962-6181

Michael J. Grace \*  
William J. Grace

E.mail Gracelaw1@aol.com

October 7, 2021

Town of Yorktown  
Planning Department  
363 Underhill Avenue  
Yorktown Height, New York 10598

RECEIVED  
PLANNING DEPARTMENT  
OCT 13 2021  
TOWN OF YORKTOWN

**Re: Mongero Site Plan  
Rte. 118 and Downing Road**

Dear John Tegeder:

As you know our office represents Mr. Mongero in regard to the approved site plan for his property located at the corner of Route 118 and Downing Drive. It is my understanding that the Site Plan approval given to Mongero Properties will soon expire.

Therefore, we request to be put on the next available Planning Board agenda to extend the approval. Further, the property is presently the subject of a possible sale and we would like to explore the issue of removing the condition of the site developer having to install a traffic light at the intersection of Downing and Route 118.

As you know the site is approved for the development of a 3600 square foot building. To burden the development of the site with the expense of installing a traffic light is a complete overreach.

It is our understanding that the prior approval contained that condition of development as a voluntary concession by the proposed bank that was to be built on the site.

As I know you are aware, as is the Panning Board and your legal counsel it is New York Highway Law that controls highway improvements and the proper financing of

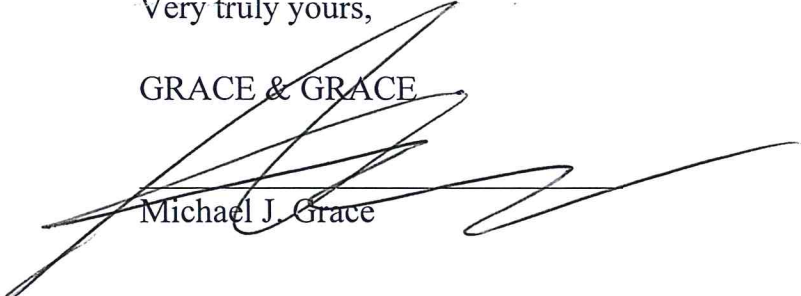
same. Should the NYSDOT feel a light is necessary at that intersection those factors dictating a warrant for a light pre-existed this site's development and go well beyond any traffic impacts that maybe generated by a 3600 square foot retail store. It is one thing to accept a voluntarily offered concession it becomes a wholly different issue to compel the landowner/developer of this site to foot the entire bill for the traffic light installation and hold the property's development hostage to such a condition of approval.

Please put this matter on an upcoming agenda so that we can begin to discuss how to proceed.

We thank you in advance for your anticipated cooperation and kind courtesies in this matter.

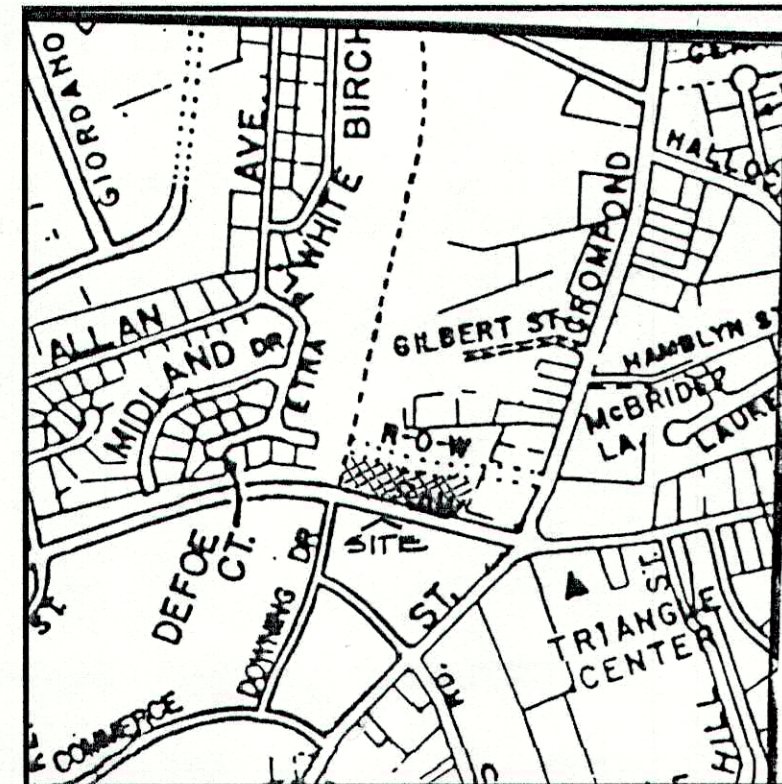
Very truly yours,

GRACE & GRACE



Michael J. Grace

cc: Town Planning Board  
Town Board



LOCATION MAP  
NOT TO SCALE

**SITE DATA:**

OWNER / DEVELOPER: MONGERO PROPERTIES  
181 COMMERCE STREET  
YORKTOWN HEIGHTS, NY 10598

PROJECT LOCATION: NYS RT. 118 AND DOWNING ROAD  
YORKTOWN HEIGHTS, NY

EXISTING TOWN ZONING: C-1, BUSINESS  
PROPOSED USE: C-1, BUSINESS  
TOWN TAX MAP DATA: SECTION 37.14, BLOCK 1, LOT 44  
SITE AREA: 2.20 ACRES (95,923 SF)  
SEWAGE FACILITIES: PUBLIC SEWERS  
WATER FACILITIES: PUBLIC WATER FACILITIES

**GENERAL NOTES:**

- All work and materials shall conform to the Town of Yorktown's code of practice and specifications.
- All work on the project shall be performed in a workmanlike manner and shall be in accordance with the standards of the industry. The Owner will be the sole judge of the acceptability of the work. Materials and work deemed unacceptable will be removed and redone at the sole cost and responsibility of the Contractor.
- The Town Engineer's Office is to be notified 24 hours before commencing site construction.
- It is the Contractor's responsibility to call in a "CODE 53" prior to construction for underground utility locations.
- The Contractor shall be responsible to protect his work and will be held responsible for consequential damages due to his activities. The Contractor shall be responsible to the Owner for the acts and omissions of his employees, subcontractors and their agents and employees and any other persons performing any work under a separate contract with the Contractor.
- It shall be the Contractor's responsibility to notify the Town Inspector in advance of his work or as the Inspector deems appropriate.
- All conditions, locations and dimensions shall be field verified by the Contractor and the Owner/Engineer notified in writing of any discrepancies prior to the start of work. The Owner/Engineer will evaluate the situation and modify the plan as necessary.
- The Contractor shall supervise and direct the work using his best skill and attention. He shall be solely responsible for all construction means, methods, techniques, sequences and procedures and for coordinating all portions of the work under this contract.
- Substructures and their encroachments below grade, if any, are not shown. The Contractor shall verify all substructures encountered during construction.
- A Street Opening Permit shall be obtained from the Town of Yorktown D.P.W. as required for installations in public roads.
- The contractor shall be responsible for obtaining all necessary permits for any blasting if required. No topsoil shall be removed from the site.
- The Contractor shall secure & pay for a builders risk policy to cover the period of construction. The Engineer & Owner shall be named as additional insured. All Contractors employed at the site shall be covered by workman's compensation.
- All changes made to the plans shall be approved by the Engineer and any such changes shall be filed as amendments to the original Town permit.
- All written dimensions on the drawings shall take precedence over any scaled dimensions.
- The Contractor shall take all precautions to minimize disturbance within the control area by installing the sediment erosion control practices required.
- The Engineer whose seal appears hereon has not been retained for supervision of construction, subsequently, he is not responsible for construction and therefore assumes no responsibility for construction practices, procedures, and results therefrom.
- The Design Engineer disclaims any liability for damage or loss incurred during or after construction.
- The Engineer shall not be held responsible or held accountable for the integrity of any structures constructed or under construction prior to the approval of the plans.
- All conditions of approval as noted in formal letters of approval or findings are a part of the approved site plan, drawings or plans, and are hereby referenced for additional approval details.
- Proposed re-configuration and striping of Saw Mill River Road and the proposed traffic signal are designed by others. The inclusion of these items on this plan sheet is for general reference only. Refer to traffic improvement plans as prepared by others for details.
- The Contractor shall coordinate all activities associated with the relocation of the AT&T Fiber Optic Cable located below the proposed Downing Road Extension. The Contractor is required to secure any and all permits and approvals by the utility Company prior to construction. The Contractor shall perform all relocation activities in strict accordance with the Utility Owner's standards and specifications and is responsible for the uninterrupted service provided by the Utility. Any and all penalties for damage, delays or otherwise to the Utility or intended service provided by same shall be the sole responsibility of the Contractor. No work shall be performed without prior notice as required by the Utility Owner.
- For proposed road and intersection improvements, traffic signalization and striping, see latest plans prepared by John Collins Engineers, P.C.

**EXISTING PARKING LOT NOTES:**

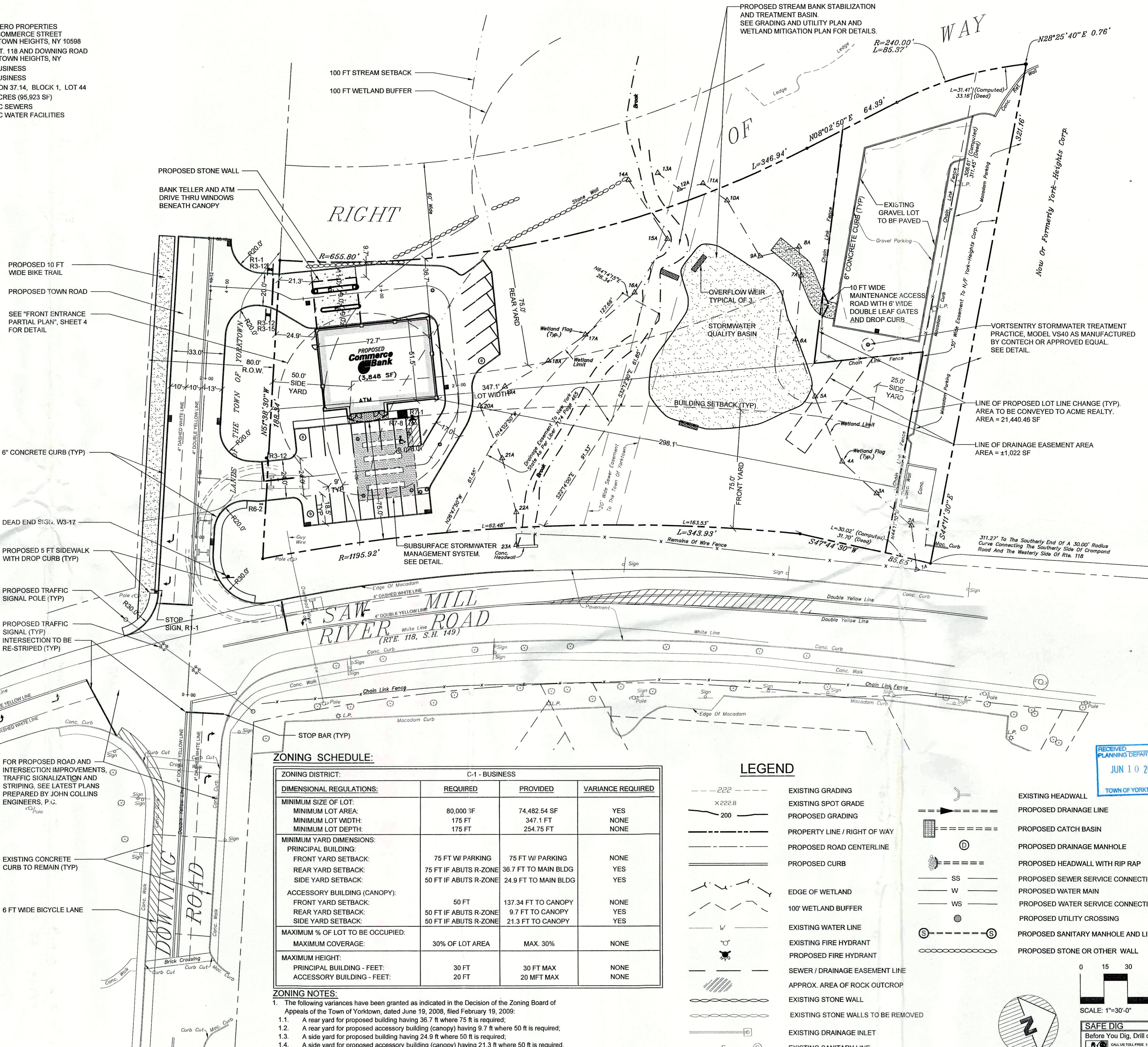
- The existing gravel area in the northwesterly corner of the Property shall be for the purpose of a parking lot.
- All improvements on and for the existing parking area shall be completed prior to transfer of this portion of the Property.

**PARKING SCHEDULE**

REQUIRED PARKING:	5 SPACES PER 1000 SF OF BUILDING
PROPOSED BANK:	3,848 S.F. @ 5 SPACES/1000 S.F. = 19.2 SPACES
PROVIDED PARKING:	22 STANDARD 1 HANDICAP
TOTAL PROVIDED PARKING:	23 SPACES
PARKING VARIANCE REQUIRED:	0 SPACES

**NOTE:**

- UNAUTHORIZED ALTERATIONS OR ADDITIONS TO THIS DRAWING IS A VIOLATION OF SECTION 7209 (2) OF THE NEW YORK STATE EDUCATION LAW.
- THIS IS NOT A SURVEY. ALL SURVEY INFORMATION SHOWN ON THIS PLAN HAS BEEN TAKEN FROM SURVEY MAP PREPARED BY DONNELLY LAND SURVEYORS FOR MONGERO PROPERTIES, LAST DATED 12/7/04. WETLAND FLAGS UPDATED BY STEVE COLEMAN AND SURVEYED BY DONNELLY LAND SURVEYING 8/31/04. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.
- WETLAND LIMIT LINE, AS SHOWN ON THIS PLAN, WAS OBTAINED FROM THE WETLAND DELINEATION PERFORMED BY STEPHEN W. COLEMAN ENVIRONMENTAL CONSULTING, LLC, AUGUST 2004.



**ZONING SCHEDULE:**

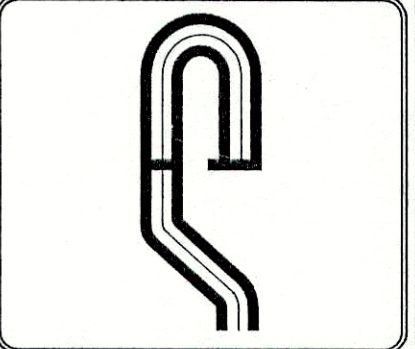
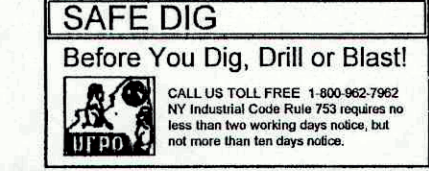
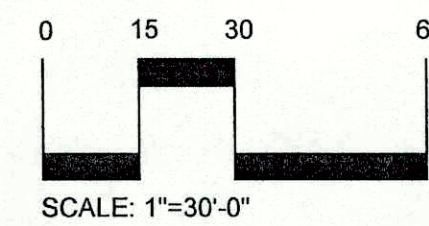
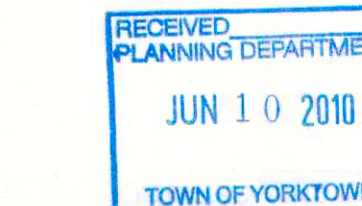
DIMENSIONAL REGULATIONS:	REQUIRED	PROVIDED	VARIANCE REQUIRED
<b>MINIMUM SIZE OF LOT:</b>			
MINIMUM LOT AREA:	80,000 SF	74,482.54 SF	YES
MINIMUM LOT WIDTH:	175 FT	347.1 FT	NONE
MINIMUM LOT DEPTH:	175 FT	254.75 FT	NONE
<b>MINIMUM YARD DIMENSIONS:</b>			
<b>PRINCIPAL BUILDING:</b>			
FRONT YARD SETBACK:	75 FT W/ PARKING	75 FT W/ PARKING	NONE
REAR YARD SETBACK:	75 FT IF ABUTS R-ZONE	36.7 FT TO MAIN BLDG	YES
SIDE YARD SETBACK:	50 FT IF ABUTS R-ZONE	24.9 FT TO MAIN BLDG	YES
<b>ACCESSORY BUILDING (CANOPY):</b>			
FRONT YARD SETBACK:	50 FT	137.34 FT TO CANOPY	NONE
REAR YARD SETBACK:	50 FT IF ABUTS R-ZONE	9.7 FT TO CANOPY	YES
SIDE YARD SETBACK:	50 FT IF ABUTS R-ZONE	21.3 FT TO CANOPY	YES
<b>MAXIMUM % OF LOT TO BE OCCUPIED:</b>			
MAXIMUM COVERAGE:	30% OF LOT AREA	MAX. 30%	NONE
<b>MAXIMUM HEIGHT:</b>			
PRINCIPAL BUILDING - FEET:	30 FT	30 FT MAX	NONE
ACCESSORY BUILDING - FEET:	20 FT	20 MFT MAX	NONE

**ZONING NOTES:**

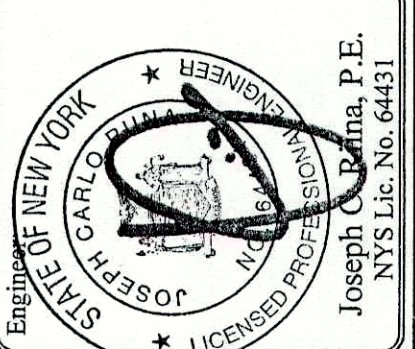
- The following variances have been granted as indicated in the Decision of the Zoning Board of Appeals of the Town of Yorktown, dated June 19, 2008, filed February 19, 2009:
  - A rear yard for proposed building having 36.7 ft where 75 ft is required;
  - A rear yard for proposed accessory building (canopy) having 9.7 ft where 50 ft is required;
  - A side yard for proposed building having 24.9 ft where 50 ft is required;
  - A side yard for proposed accessory building (canopy) having 21.3 ft where 50 ft is required.
- The following area variance is required for this site:
  - Minimum Lot Area of 74,482.54 sf where 80,000 sf is required.

**LEGEND**

- 222 --- EXISTING GRADING
- x 222.8 EXISTING SPOT GRADE
- 200 --- PROPOSED GRADING
- --- PROPERTY LINE / RIGHT OF WAY
- --- PROPOSED ROAD CENTERLINE
- --- PROPOSED CURB
- --- EDGE OF WETLAND
- --- 100' WETLAND BUFFER
- --- EXISTING WATER LINE
- --- EXISTING FIRE HYDRANT
- --- PROPOSED FIRE HYDRANT
- --- SEWER / DRAINAGE EASEMENT LINE
- --- APPROX. AREA OF ROCK OUTCROP
- --- EXISTING STONE WALL
- --- EXISTING STONE WALLS TO BE REMOVED
- --- EXISTING DRAINAGE INLET
- --- EXISTING SANITARY LINE
- --- EXISTING HEADWALL
- --- PROPOSED DRAINAGE LINE
- --- PROPOSED CATCH BASIN
- --- PROPOSED DRAINAGE MANHOLE
- --- PROPOSED HEADWALL WITH RIP RAP
- --- PROPOSED SEWER SERVICE CONNECTION
- --- PROPOSED WATER MAIN
- --- PROPOSED WATER SERVICE CONNECTION
- --- PROPOSED UTILITY CROSSING
- --- PROPOSED SANITARY MANHOLE AND LINE
- --- PROPOSED STONE OR OTHER WALL



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



Revisions:

No.	Date	Comments
1	2/19/08	Per PP & CB
2	4/1/08	Zoning
3	6/18/08	Stormwater
4	7/15/08	Add water valves
5	7/20/08	Grading/Elevation
6	11/09/09	As per Resolution
7	09/10	Per Town PB

SCALE: 1" = 30'  
DRAWN BY: JMC  
DATE: 12/03/07

**SITE PLAN**

PROPOSED SITE PLAN  
PREPARED FOR  
**MONGERO PROPERTIES**  
a.k.a. Commerce Bank  
Rt. 118 and Downing Road  
Town of Yorktown  
Westchester Co., New York

F:\2004\04-23 MONGERO PROPERTIES AKA COMMERCE BANK\DWG\04-23 SITE\COMMERCE\_REV08.DWG, 6/9/2010 5:37:36 PM

# **Colangelo Subdivision**

H T W

HOCHERMAN TORTORELLA & WEKSTEIN, LLP  
CLIENT-CENTERED ♦ SOLUTION-ORIENTED

One North Broadway, Suite 701  
White Plains, New York 10601-2319  
P: (914) 421-1800 F: (914) 421-1856  
www.htwlegal.com

Geraldine N. Tortorella  
Adam L. Wekstein  
Noelle C. Wolfson

Henry M. Hocherman, Retired

October 8, 2021

*Via Electronic ([ncalicchia@yorktownny.org](mailto:ncalicchia@yorktownny.org)) and First Class Mail*

Hon. Richard Fon, Chairman  
and Members of the Planning Board  
Town of Yorktown  
Albert A. Capellini Community & Cultural Center  
1974 Commerce Street, Room 222  
Yorktown Heights, NY 10598

RECEIVED  
PLANNING DEPARTMENT  
OCT 8 2021  
TOWN OF YORKTOWN

*Re: Colangelo Subdivision (f/k/a Featherbed Properties, Inc.)  
1805 Jacobs Road, Yorktown Heights  
Tax Identification No.: Section 35.16, Block 1, Lot 4  
Resolution #21-01  
Request for Extension of Final Subdivision Approval*

Dear Chairman Fon and Members of the Planning Board:

By Resolution No. #21-01, dated February 8, 2021, the Planning Board granted approval of the stormwater pollution prevention plan permit, wetland permit, tree permit and final subdivision plat for the Colangelo Subdivision. (The subdivision approval is referred to as the "Final Plat Approval.") At its meeting on July 12, 2021, your Board extended Final Plat Approval to and including November 5, 2021.

Since our last request for an extension, we submitted the revised Plat to the Town's Director of Planning, Town Planner and Westchester Land Trust for final comments before submitting the Plat to the Westchester County Health Department for approval. We recently obtained comments from those entities and are in the process of updating the Plat. Given this timing, I do not anticipate that the Plat will be "in final form" before the November 5<sup>th</sup> deadline and, therefore, I am writing to request a second 90-day extension of Final Plat Approval, to and including February 3, 2021. Your Board is authorized to grant this extension pursuant to Town Law Section 276(7)(c) and Yorktown Land Development Regulations Section 195-24(F)(5). This is our second request for an extension of Final Plat Approval.

Kindly schedule this request for consideration at the Board's October 25, 2021 meeting.

Hon. Richard Fon, Chairman  
and Members of the Planning Board  
October 8, 2021  
Page 2

Thank you in advance for your courtesy.

Respectfully yours,

Hocherman Tortorella & Wekstein, LLP

By:   
Geraldine N. Tortorella

GNT:hc

cc: *(via electronic mail)*  
John A. Tegeder, R.A. ([jtegeder@vorktownny.org](mailto:jtegeder@vorktownny.org))  
Robyn A. Steinberg, AICP ([rsteinberg@vorktownny.org](mailto:rsteinberg@vorktownny.org))  
Mr. John Colangelo  
Ms. Maria Costanzo  
Joseph Riina, P.E.  
Michael Mastrogiacono, P.E., L.S.

# **Home & Hearth Site Plan**

# TOWN OF YORKTOWN PLANNING DEPARTMENT

---

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

---

**To:** Planning Board  
**From:** Planning Department  
**Date:** October 15, 2021  
**Subject:** Home & Hearth  
SBL: 15.12-1-2

---

The Planning Department reviewed the submitted site plan and has the following comments:

1. All adjacent building should be shown on the site plan.
2. Applicant must develop landscape and lighting plans.
3. The freestanding sign location should be shown on the site plan.
4. Show the existing sidewalk along Route 6 on the site plan.
5. The applicant was to revise the architecture of the accessory building and resubmit to possibly request a variance. No revised plans have been submitted yet.
6. The wetland delineation and mitigation plan must be reviewed by the town's Environmental consultant. The Planning Department will send the submitted plans to the consultant and request a proposal for this review.
7. In 1986, the then property owner entered into an access easement agreement with the adjacent property to the west to allow ingress and egress across the front of the subject property. The filed easement is attached.

The proposed new building is positioned directly on top of where the adjacent site access crosses the property line and where an existing light pole is also located. It seems the building could be pushed back at least a foot or two to relieve the crowding of site elements between the two sites.







\*V03487027\*

UPPER 8714 PAGE 28

JRC 6592

ACCESS EASEMENT AGREEMENT

WHEREAS, the party of the first part, KARL F. BOHRINGER, JR., residing at #29 Springhill Mobile Park, Hopewell Jct., NY is the owner of property hereinafter described in Schedule A, annexed hereto and made a part hereof and whereas the party of the second part, PEN WEN, INC., by GARY GEFFNER, residing at West Shore Drive, Putnam Valley, New York is the owner of the premises hereinafter described in Schedule B, annexed hereto and made a part hereof and;

WHEREAS, the parties hereto are desirous of entering into an easement agreement whereby the party of the first part, his heirs, successors and assigns, shall be granted an easement in perpetuity over the lands of the party of the second part, his heirs, successors and assigns; the easement area so intended to be established is hereinafter described in Schedule C, annexed hereto and made a part hereof;

NOW THEREFORE, in consideration of TEN DOLLARS (\$10.00) and other good and valuable consideration it is agreed between the parties hereto that the guest, invitees, assignees and successors in interest of the party of the first part hereto, in perpetuity, shall have the right of ingress and egress over and across the premises described in Schedule C herein to lands of the party of the first part described in Schedule A herein for any and all legal purposes, business, residential and all others permitted by State and/or municipal law.

IT is further agreed between the parties hereto that the party of the first part shall be responsible for the maintenance of the easement area hereinafter described in Schedule C herein and that he shall keep the same in a safe, suitable, passable condition at all times, at his own cost and expense.

THE party of the second part, his heirs, successors and assigns will have the right to maintain and repair the septic located on a portion of the subject premises. If any malfunction of the septic system is caused by the maintenance of said easement, the party of the first part shall be responsible to repair the same.

THE party of the first part, his heirs, successors and assigns will be responsible to resurface the easement after any repair work done on the septic system by either party, their heirs, successors and assigns.

THE party of the second part, his heirs, successors and assigns, reserves the right to connect to any future public sewer line, thru the easement, if necessary and he further reserves the right to repair any such sewer line thru the easement area.

THE party of the first part, his heirs, successors and assigns, shall have no right to construct a building on any portion of the easement area.

Access Easement Agreement continued....

THE party of the first part, his heirs, successors and assigns shall keep the easement are insured at all times by liability insurance, which insurance will equal the amount of insurance carried by the party of the second part on his premises. The insurance policy of the party of the first part will indicate the party of the second part, his heirs, successors and assigns, as an additional insured.

THE party of the first part further quitclaims, releases and surrenders any right over the lands of the party of the second part beyond the easement area herein described.

NOW THEREFORE the parties hereto have affixed their hand and seal this 29<sup>th</sup> day of December, 1986.

Karl F. Bohringer, Jr.  
KARL F. BOHRINGER, JR.

PEN WEN, INC.

BY: Gary J. Geffner  
GARY GEFFNER

WITNESS:

Diana Kishub

STATE OF NEW YORK, COUNTY OF PUTNAM SS:

On the 29<sup>th</sup> day of December 1986, before me personally came

KARL BOHRINGER JR.

to me known to be the individual

described in and who executed the foregoing instrument, and acknowledged

that he executed the same.

HENRY G. FURY  
Notary Public, State of New York  
Qualified in Putnam County  
Commission Expires June 30, 1988

STATE OF NEW YORK, COUNTY OF PUTNAM SS:

On the 29<sup>th</sup> day of December 1986, before me personally came

Debra Leskela

the subscribing witness to the

foregoing instrument, with whom I am personally acquainted, who, being by me duly sworn, did depose and say that she resides at Springhill Park, Beekman Road, Hopewell Jct., NY; that she knows GARY GEFFNER to be the individual described in and who executed the foregoing instrument; that she said subscribing witness, was present and saw GARY GEFFNER execute the same; and that she, said witness, at the same time subscribed her name as witness thereto.

HENRY G. FURY  
Notary Public, State of New York  
Qualified in Putnam County  
Commission Expires June 30, 1988

## SCHEDULE A

ALL that certain plot, piece or parcel of land, situate, lying and being in the Town of Yorktown, County of Westchester and State of New York, being more particularly bounded and described as follows:

BEGINNING at the southwest corner of the parcel hereby conveyed on the northerly side of the Five Mile Turnpike (known as Route No. 6) and at the southeast corner of land belonging to David Farrington;

THENCE along the northerly side of the said Five Mile Turnpike, two courses and distances: North  $55^{\circ} 34' 30''$  East 70.00 feet; North  $56^{\circ} 50' 07''$  East 125.00 feet to the southeast corner of the parcel hereby conveyed and the southwest corner of the parcel reserved by Douglas G. Trend, which contains his present residence;

THENCE along the land of the said Douglas G. Trend's residence parcel North  $33^{\circ} 09' 53''$  West 337.79 feet to the easterly line of the land belonging to David Farrington and the northeasterly corner of the parcel hereby conveyed;

THENCE along the land of the said Farrington two courses and distances: South  $6^{\circ} 21' 16''$  West 310.30 feet to a corner; South  $34^{\circ} 35' 30''$  East 100.00 feet to the point or place of BEGINNING.

JD KB

## SCHEDULE B

ALL that certain plot, piece or parcel of land with the buildings and improvements thereon erected, situate, lying and being in the Town of Yorktown, County of Westchester and State of New York, being more particularly bounded and described as follows:

BEGINNING at a point on the northwesterly side of East Main Street where said northwesterly line is intersected by the northeasterly line of other lands now or formerly of Trend, being distant northeasterly along the northwesterly side of East Main Street, 595.11 feet from the easterly end of a curve with a radius of 35 feet at Lakeland Street as shown on filed Map 7980; running thence along said other lands now or formerly of Trend North 33° 09' 53" West 337.82 feet to lands conveyed to Route 206 Realty Corp. by deed recorded in Liber 6770 cp 653; running thence along said lands now or formerly of Route 206 Realty Corp., North 6° 21' 16" East 253.81 feet to the center line of the outlet of Lake Mohegan and land conveyed to DiBari by deed recorded in Liber 6345 cp 392; running thence along the center line of said outlet and lands now or formerly of DiBari the following courses and distances:

South 47° 17' 40" East 36.55 feet;  
 South 54° 13' 35" East 64.02 feet;  
 South 66° 58' 50" East 28.44 feet;  
 South 59° 27' 10" East 44.05 feet;  
 South 50° 43' 50" East 28.16 feet;  
 South 39° 29' 50" East 16.76 feet and  
 South 54° 15' 00" East 45.49 feet to the northerly corner of land conveyed

to Raab by deed recorded in Liber 6074 cp 454; running thence along said lands now or formerly of Raab South 0° 16' 46" East 246.17 feet and South 34° 58' 37" East 81.12 feet to the northwesterly side of East Main Street; running thence along said northwesterly side, South 55° 01' 23" West 47.00 feet and South 55° 34' 40" West 3.00 feet and South 56° 50' 07" West 74.42 feet to the point or place of BEGINNING.

*JR KB*

SCHEDULE C

ALL that certain piece or parcel of land, situate and lying in the Town of Yorktown, County of Westchester and State of New York being more particularly bounded and described as follows:

BEGINNING at a point on the northerly side of East Main Street, on the division line of lands of the party of the first part, hereinbefore described in Schedule A herein and made a part hereof and;

RUNNING THENCE along said line North  $33^{\circ} 09' 53''$  West 45.00 feet to a point;

RUNNING THENCE through lands of the party of the second part, as described in Schedule B annexed hereto and made a part hereof, South  $71^{\circ} 02' 23''$  East 57.01 feet to a point on the northerly side of East Main Street;

RUNNING THENCE along the northerly side of East Main Street South  $56^{\circ} 50' 07''$  West 35.00 feet to the point or place of BEGINNING.

*JK KB*

*Record & Return  
Land Researchers LTD  
56 Glenside Ave.  
Carmel, N.Y. 10512*



WESTCHESTER COUNTY CLERK RECORDING PAGE  
(THIS PAGE IS PART OF THE INSTRUMENT)

LIBER 8714 PAGE 34

TYPE OF INSTRUMENT EAS DATE \_\_\_\_\_  
 STATUTORY CHARGE 5 MTGE AMT \_\_\_\_\_  
 RECORDING CHARGE 18 EXEMPT YES \_\_\_\_\_ NO \_\_\_\_\_  
 FILING CHARGE \_\_\_\_\_ REC'D TAX ON ABOVE MTGE \_\_\_\_\_  
 CROSS REFERENCE \_\_\_\_\_ BASIC \$ \_\_\_\_\_  
 CERT/RECEIPT \_\_\_\_\_ ADDITIONAL \$ \_\_\_\_\_  
 SUBTOTAL \$ \_\_\_\_\_  
 SPECIAL \$ \_\_\_\_\_  
 TOTAL \$ \_\_\_\_\_  
 SERIAL NO \_\_\_\_\_

RECEIVED  
WESTCHESTER COUNTY CLERK  
JAN 27 11 25 AM '87

- 02 BEDFORD
- 06 CORTLANDT
- 09 EASTCHESTER
- 11 GREENBURGH
- 12 HARRISON
- 16 LEWISBORO
- 17 MAMARONECK
- 19 MT KISCO
- 20 MT PLEASANT
- 21 MT VERNON
- 22 NEW CASTLE
- 23 NEW ROCHELLE
- 24 NORTH CASTLE
- 26 NORTH SALEM
- 28 OSSINING
- 30 PEEKSKILL
- 31 PELHAM
- 35 POUND RIDGE
- 36 RYE CITY
- 37 RYE TOWN
- 38 SCARSDALE
- 39 SOMERS
- 42 WHITE PLAINS
- 43 YONKERS
- 44 YORKTOWN

CONSID \_\_\_\_\_

RECEIVED  
\$ \_\_\_\_\_  
REAL ESTATE  
  
TRANSFER TAX  
WESTCHESTER  
COUNTY

ANDREW J. SPANO  
WESTCHESTER COUNTY CLERK

TERMINAL NO 222234 TRANSFER FEES NO \_\_\_\_\_

DATE RET'D \_\_\_\_\_

:14988001 01/27/87CPA 23.00

		SECTION BLOCK LOT VILLAGE TOWN COUNTY
RECORD AND RETURN TO:		

THE FOREGOING INSTRUMENT WAS ENDORSED FOR THE RECORD AS FOLLOWS:  
 THE PROPERTY AFFECTED BY THIS INSTRUMENT IS SITUATE IN THE  
 TOWN  CITY OF Yorktown COUNTY OF WESTCHESTER  
 N.Y. A TRUE COPY OF THE ORIGINAL Access Easement RECORDED  
 IN THE DIVISION OF LAND RECORDS OF THE COUNTY CLERK'S OFFICE OF  
 WESTCHESTER COUNTY ON Jan. 27, 1987 AT 11:25a M. IN  
 LIBER 8714 PAGE 28 IN THE BOOK OF Deeds  
 WITNESS MY HAND AND OFFICIAL SEAL: Andrew Spano  
 ANDREW J. SPANO, COUNTY CLERK

# Site Design Consultants

Civil Engineers • Land Planners

October 6, 2021

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

RECEIVED  
PLANNING DEPARTMENT

OCT 7 2021

TOWN OF YORKTOWN

Re: Edward Enea  
Home and Hearth  
1750 East Main Street  
Mohegan Lake  
SBL 15.12-1-2

Dear Robyn:

We are submitting revised site plans for review by the Planning Board at the October 18 Meeting. Enclosed please find the following items being submitted for distribution and discussion at the Planning Board Meeting.

- Two copies of the "Stormwater Management Plan Prepared for Home & Hearth" dated October 2021;
- Six prints of the Mitigation Plan Prepared by Tim Miller Associates;
- Six sets of plans titled "Site Plan Prepared for Home and Hearth," Sheets 1-8 of 8, dated 7/28/2021.

At the last Planning Board Meeting the architecture of the proposed rear storage building was discussed. Specifically, modifying the roof element with some architectural detail or change in roof line. These modifications to the roof will require a height variance from the ZBA. If the Planning Board is in agreement with this approach, we would ask for a letter of endorsement to the ZBA to issue the variance.

We are also forwarding you a digital copy of this submission. Please add this project to the agenda for the Planning Board Meeting of October 18 and contact us if you have any questions. Thank you.

Yours Truly,

  
Joseph C. Rina, P.E.

Cc: Hearth and Home  
Building Department  
Engineering Department  
Town Supervisor  
Ed Lachterman

JCR / cm / Enc. / sdc 21-19

---

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

60 Walnut Grove Road • Ridgefield, Connecticut 06877

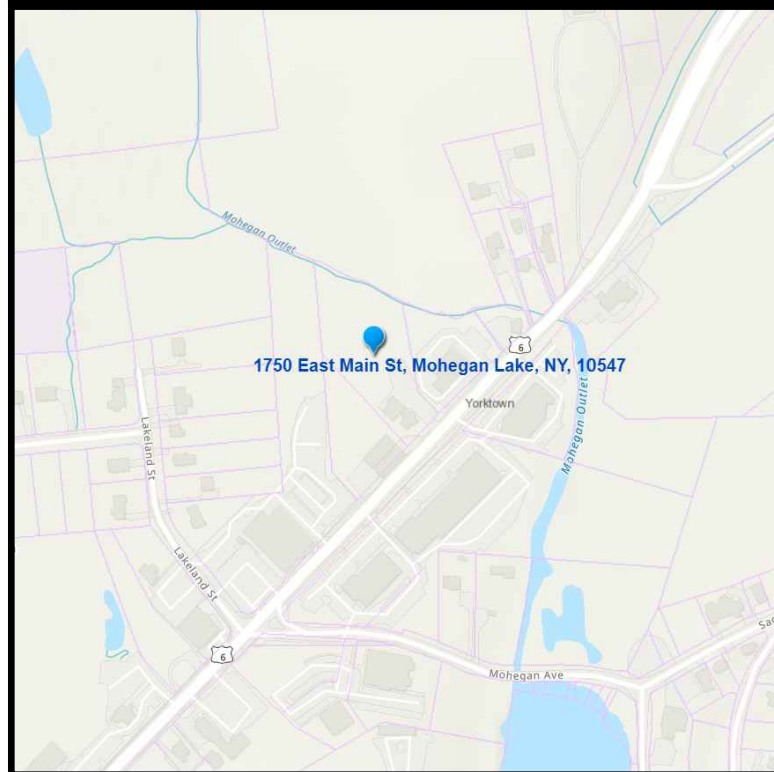
(914) 962-4488

(203) 431-9504

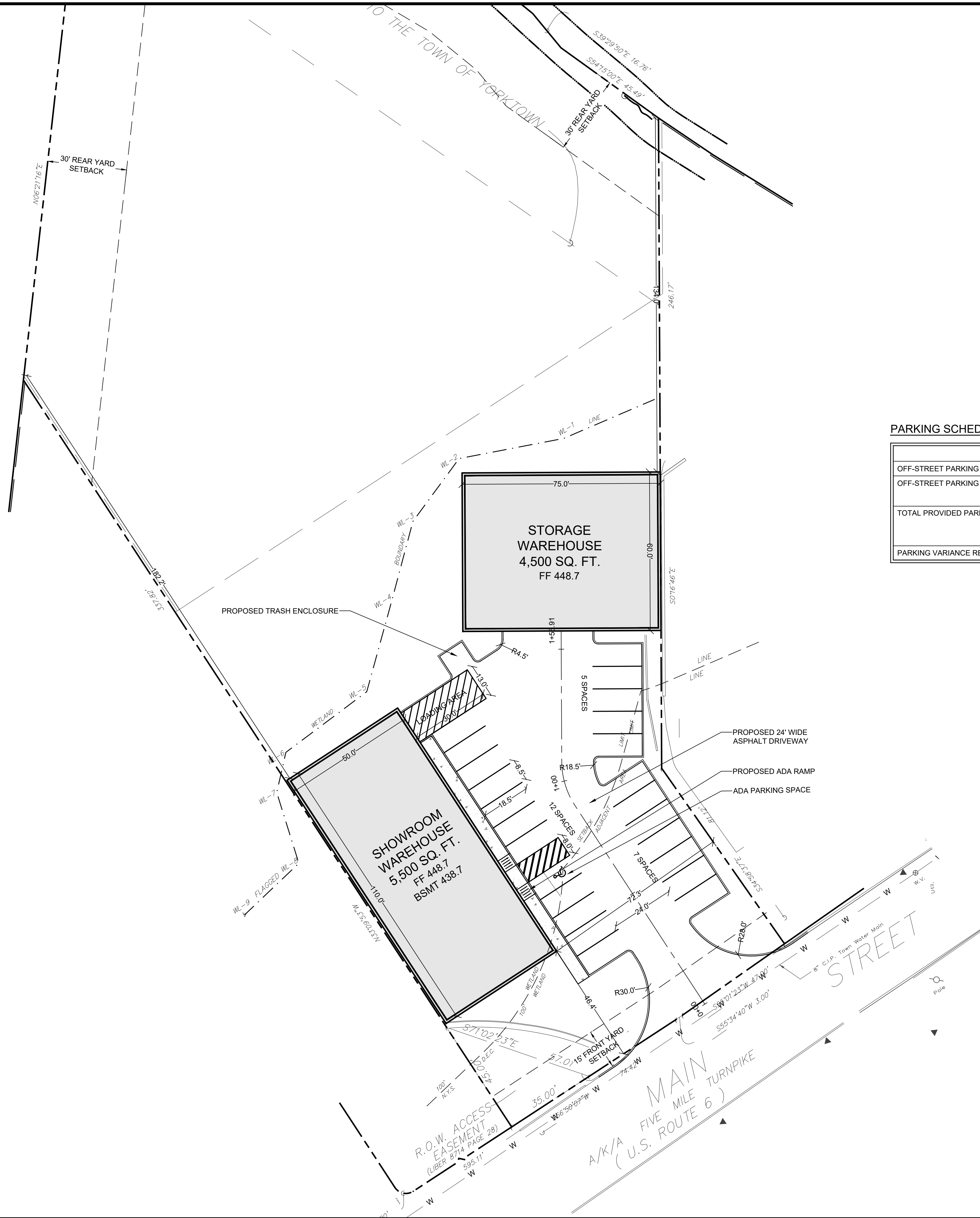
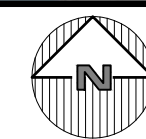
Fax (914) 962-7386







LOCATION MAP  
NOT TO SCALE



ZONING SCHEDULE:

ZONING DISTRICT: C-4, BUSINESS (SECTION 300-71)		
DIMENSIONAL REGULATIONS:	REQUIRED	PROVIDED
<b>MINIMUM SIZE OF LOT:</b>		
MINIMUM LOT AREA:	NONE	84,252 SF.
MINIMUM LOT WIDTH:	25 FT.	124.4 FT.
MINIMUM LOT DEPTH:	100 FT.	402.6 FT.
<b>MINIMUM YARD DIMENSIONS:</b>		
<b>PRINCIPAL BUILDING:</b>		
FRONT YARD SETBACK:	15 FT.	47.8 FT.
REAR YARD: MAIN BUILDING	30 FT.	181.8 FT.
<b>SIDE YARD: MAIN BUILDING</b>		
	* NONE * SEE NOTE	0 FT.
<b>ACCESSORY BUILDINGS:</b>		
FRONT YARD SETBACK:	15 FT.	145.2 FT.
REAR YARD SETBACK:	30 FT.	134.3 FT.
<b>MAXIMUM HEIGHT:</b>		
PRINCIPAL BUILDING - FEET:	35 FEET	< 35 FT.
ACCESSORY BUILDING - FEET:	20 FEET	< 20 FT.
<b>MAXIMUM % OF LOT COVERAGE:</b>		
TOTAL BUILDING COVERAGE:	30% OF LOT AREA	11.9 % OF LOT AREA

\* NONE, BUT IF PROVIDED SHALL BE 10'; IF USED AS ONE WAY VEHICULAR ACCESS, SHALL BE 17 FT.; TWO WAY VEHICULAR ACCESS, 25 FT.; IF JOINS AN R DISTRICT, SHALL BE 50 FT.  
\*\* VARIANCE GRANTED BY ZONING BOARD OF APPEALS FEBRUARY 23, 2012 - REF# 5/12

PARKING SCHEDULE

REQUIRED PARKING (AS PER TOWN CODE SECTION 300-179)	PROVIDED PARKING
OFF-STREET PARKING (PER §300-182): 4 SPACES / 1,000 SF OF RETAIL SPACE = 10 SPACES	18 PARKING SPACES
OFF-STREET PARKING (PER §300-186): 1 SPACE PER FIRST 10,000 SF. = 1 SPACE ONE ADDITIONAL SPACE PER EACH 40,000 SF. AFTER. = 2.5 SPACES	1 PARKING SPACES 3 PARKING SPACES
TOTAL PROVIDED PARKING:	23 STANDARD SPACES 1 HANDICAP SPACES
PARKING VARIANCE REQUIRED:	0 SPACES

WETLAND, MITIGATION AND COVERAGE AREA SUMMARY

LOCATION	AREA (SQUARE FEET)
<b>EXISTING ON-SITE WETLANDS &amp; BUFFER</b>	
TOTAL AREA OF WETLAND AND BUFFER	76,594 S.F.
WETLAND (ON-SITE)	56,153 S.F.
WETLAND BUFFER (FROM ON & OFF SITE WETLAND)	20,441 S.F.
<b>PROPOSED BUFFER DISTURBANCE</b>	
MITIGATION AREA DISTURBANCE	-
OTHER SITE IMPROVEMENT DISTURBANCE	-
TOTAL AREA OF BUFFER DISTURBANCE	±16,200 SF
<b>IMPERVIOUS AREA:</b>	
EXISTING	= 15,963 SF
PROPOSED	= 109,495 SF
<b>IMPERVIOUS AREA WITHIN 100' OF WETLAND:</b>	
EXISTING	= 0.27 ACRES
PROPOSED	= 0.35 ACRES

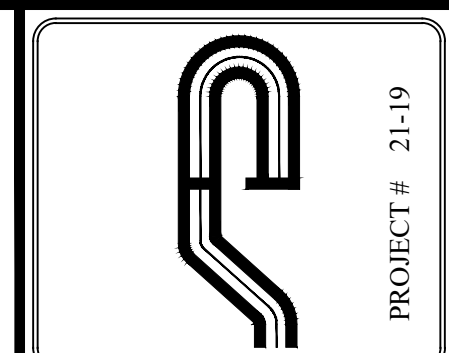
SITE PLAN NOTES:

1. WETLAND DELINEATION PERFORMED BY TIM MILLER ASSOCIATES AUGUST 2011 AND SURVEYED BY J. HENRY CARPENTER & CO. REVISED WETLAND LINE LOCATION AS SHOWN BASED ON FIELD CHANGE AS AGREED TO BY TOWN ENVIRONMENTAL CONSULTANT.
2. NO LOADING, UNLOADING OR TRANSFER OPERATION SHALL BE PERMITTED ON THE STREET, AT THE CURB OR WITHIN THE REQUIRED FRONT YARD. REF. SECTION 300-71 OF THE TOWN CODE OF YORKTOWN.
3. NO REPAIR, SERVICE, OR WASHING OF VEHICLES ON-SITE IS PERMITTED.

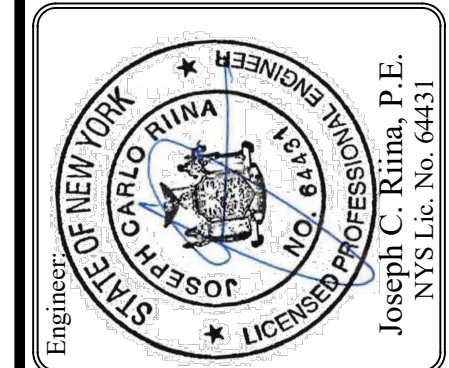
E:\2020\21-19 HOME & HEARTH\ENGINEERING\CADD\21-19 HOME & HEARTH\21-19 SITE PLAN\_10.5.21.DWG, 10/6/2021 4:21:34 PM

**NOTE:**  
1. THIS IS NOT A SURVEY. ALL SURVEY INFORMATION SHOWN ON THIS PLAN HAS BEEN TAKEN FROM SURVEY MAP PREPARED BY H. STANLEY JOHNSON AND COMPANY LAND SURVEYORS, P.C., DATED MARCH 24, 2004, LAST REVISED AUGUST 3, 2004. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

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



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

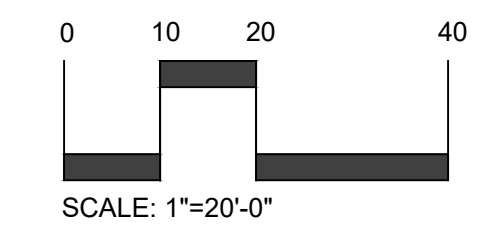
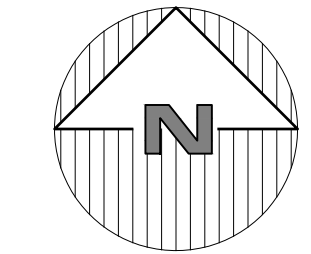


Revisions:	Date	Comments

SCALE: 1" = 20'	DRAWN BY: TK	DATE: 7/28/21
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# SITE PLAN

SITE PLAN PREPARED FOR  
**HOME & HEARTH**  
1750 EAST MAIN STREET  
Town of Yorktown, Westchester County, New York

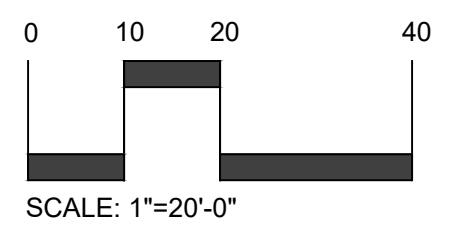
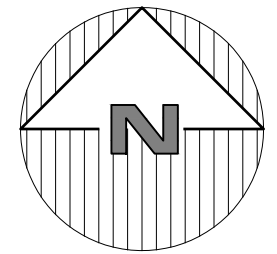


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15:20:23.19 HOME & HEARTH ENGINEERING CAD/CADD 21.19 HOME & HEARTH 19 SITE PLAN 10.5.21 DWG 10/20/21 4:21:24 PM

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**SAFE DIG**  
Before You Dig, Drill or Blast!  
Call 811  
www.digbeforeyoudig.com

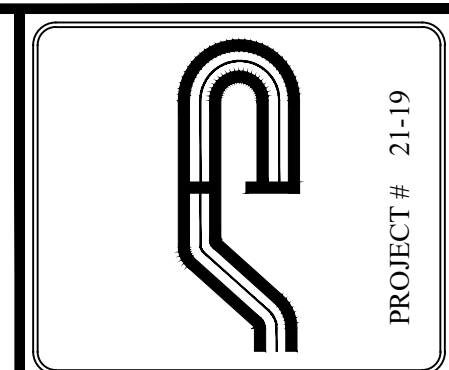
Revisions:	No.	Date	Comments

SCALE: 1" = 20'  
DRAWN BY: TK  
DATE: 7/28/21

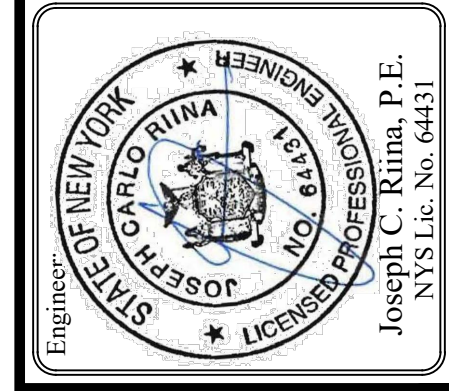
## EXISTING CONDITIONS

SITE PLAN  
PREPARED FOR  
**HOME & HEARTH**  
1750 EAST MAIN STREET  
Town of Yorktown  
Westchester County, New York

Sheet **2** of **8**



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



Revisions:  
No. | Date | Comments

SCALE: 1" = 20'  
DRAWN BY: TK  
DATE: 7/28/21

## EXISTING CONDITIONS

SITE PLAN  
PREPARED FOR  
**HOME & HEARTH**  
1750 EAST MAIN STREET  
Town of Yorktown  
Westchester County, New York

Sheet **2** of **8**

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PROJECT # 21-19

E:\2020\12.19.HOME & HEARTH\ENGINEERING\CADD\CD-21.19.HOME & HEARTH\19 SITE PLAN.10.5.21.DWG, 10/20/2021 4:21:24 PM

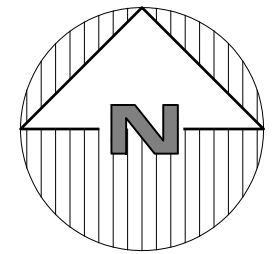
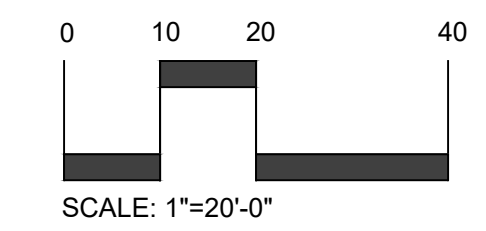
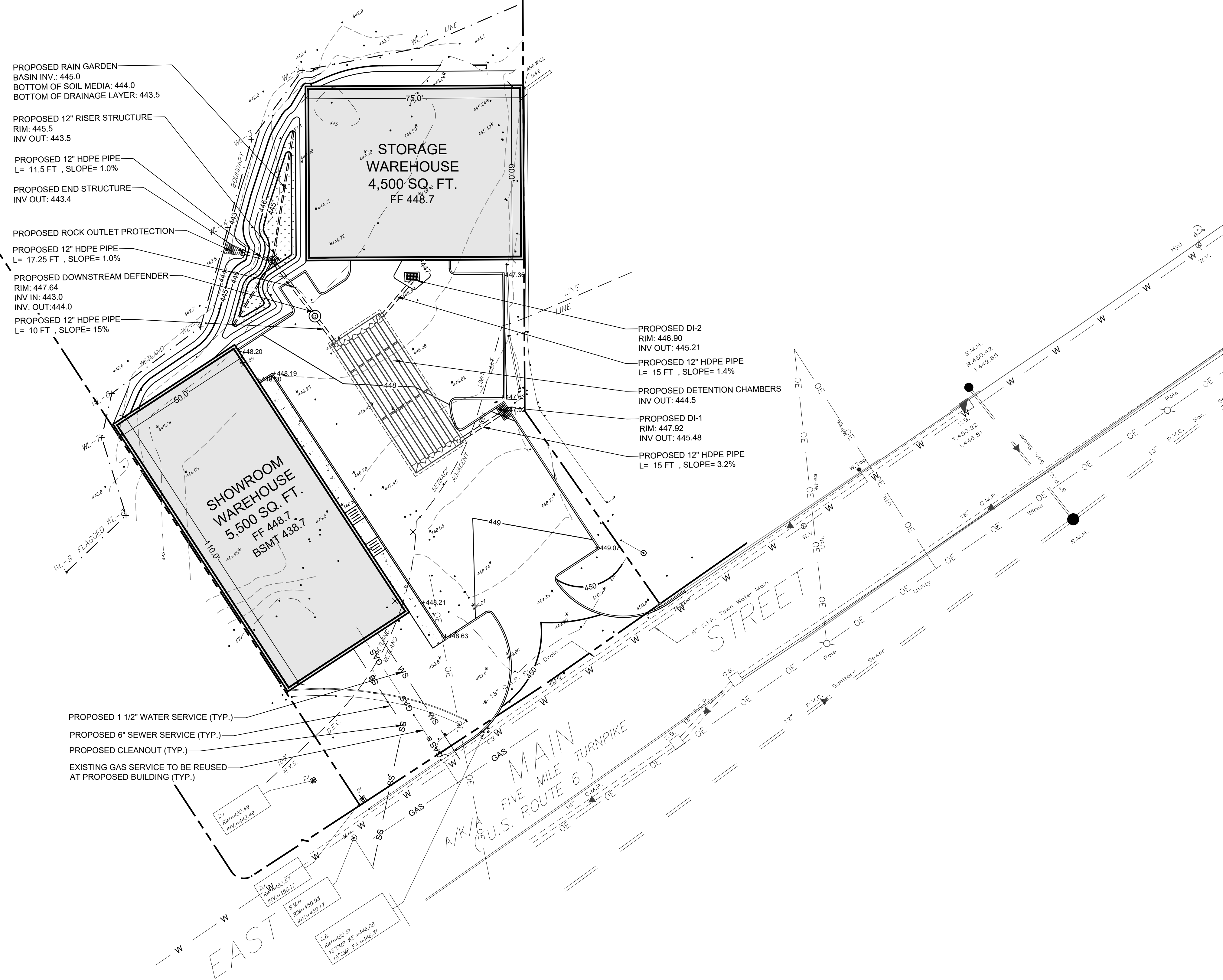
NOTE:

1. THIS IS NOT A SURVEY. ALL SURVEY INFORMATION SHOWN ON THIS PLAN HAS BEEN TAKEN FROM SURVEY MAP PREPARED BY H. STANLEY JOHNSON AND COMPANY LAND SURVEYORS, P.C., DATED MARCH 24, 2004, LAST REVISED AUGUST 3, 2004. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

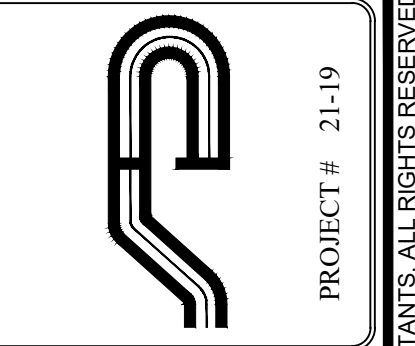
NOTE: UNAUTHORIZED ALTERATIONS OR ADDITIONS TO THIS DRAWING IS A VIOLATION OF SECTION 7209 (2)(f) OF THE NEW YORK STATE EDUCATION LAW.

- PROPOSED RAIN GARDEN  
BASIN INV.: 445.0  
BOTTOM OF SOIL MEDIA: 444.0  
BOTTOM OF DRAINAGE LAYER: 443.5
- PROPOSED 12" RISER STRUCTURE  
RIM: 445.5  
INV OUT: 443.5
- PROPOSED 12" HDPE PIPE  
L= 11.5 FT , SLOPE= 1.0%
- PROPOSED END STRUCTURE  
INV OUT: 443.4
- PROPOSED ROCK OUTLET PROTECTION
- PROPOSED 12" HDPE PIPE  
L= 17.25 FT , SLOPE= 1.0%
- PROPOSED DOWNSTREAM DEFENDER  
RIM: 447.64  
INV IN: 443.0  
INV OUT: 444.0
- PROPOSED 12" HDPE PIPE  
L= 10 FT , SLOPE= 15%

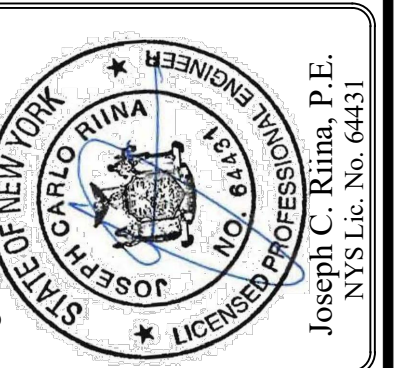
- PROPOSED 1 1/2" WATER SERVICE (TYP.)
- PROPOSED 6" SEWER SERVICE (TYP.)
- PROPOSED CLEANOUT (TYP.)
- EXISTING GAS SERVICE TO BE REUSED AT PROPOSED BUILDING (TYP.)



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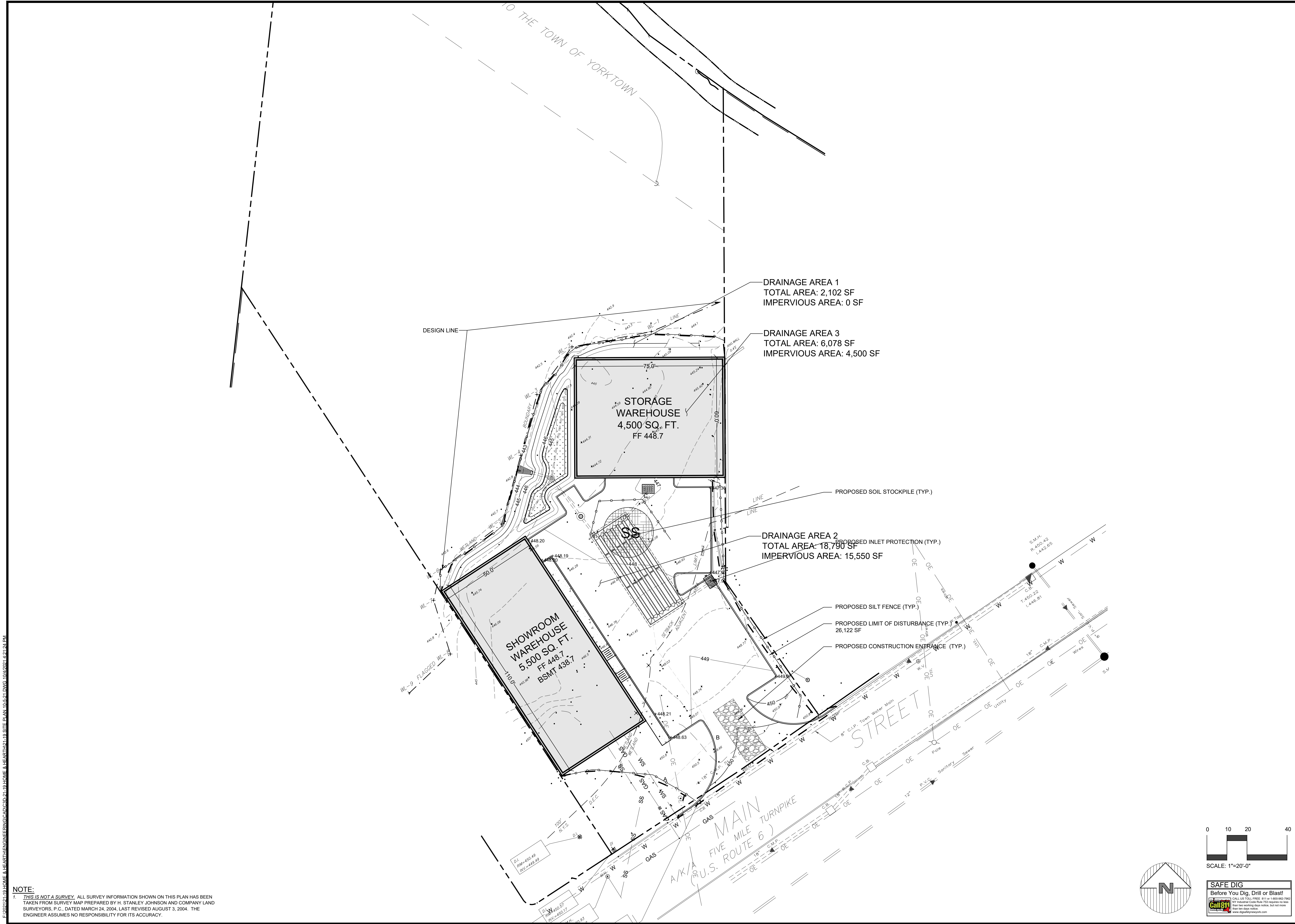
Revisions:	No.	Date	Comments

SCALE: 1" = 20'  
DRAWN BY: TK  
DATE: 7/28/21

**IMPROVEMENT PLAN**

SITE PLAN PREPARED FOR  
**HOME & HEARTH**  
1750 EAST MAIN STREET  
Town of Yorktown Westchester County, New York

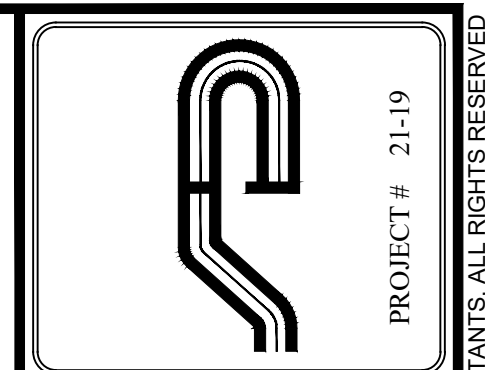
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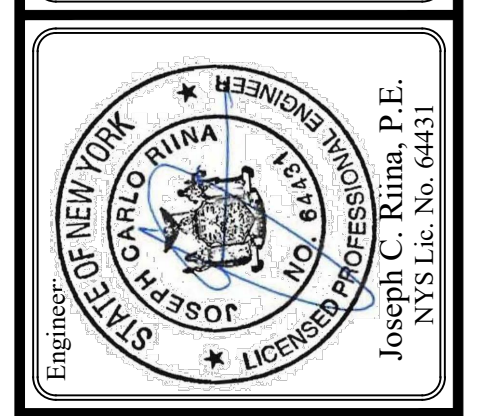
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**NOTE:**  
 1. THIS IS NOT A SURVEY. ALL SURVEY INFORMATION SHOWN ON THIS PLAN HAS BEEN TAKEN FROM SURVEY MAP PREPARED BY H. STANLEY JOHNSON AND COMPANY LAND SURVEYORS, P.C., DATED MARCH 24, 2004, LAST REVISED AUGUST 3, 2004. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

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Revisions:	No.	Date	Comments

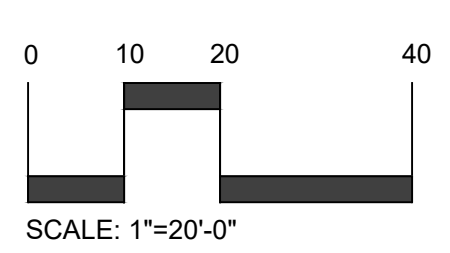
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 DRAWN BY: TK  
 DATE: 7/28/21

# E&S PLAN

SITE PLAN PREPARED FOR  
**HOME & HEARTH**  
 1750 EAST MAIN STREET  
 Yorktown, New York

Sheet 3 of 8

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GENERAL NOTES:

- 1. THE ENGINEER WHOSE SEAL APPEARS HEREON HAS NOT BEEN RETAINED FOR SUPERVISION OF CONSTRUCTION. SUBSEQUENTLY HE IS NOT RESPONSIBLE FOR CONSTRUCTION AND THEREFORE ASSUMES NO RESPONSIBILITY FOR CONSTRUCTION PRACTICES, PROCEDURES, AND RESULTS THEREFROM.

CONTRACTOR RESPONSIBILITIES:

- 1. ALL WORK ON THE PROJECT SHALL BE PERFORMED IN A WORKMAN LIKE MANNER AND SHALL BE IN ACCORDANCE WITH THE STANDARDS OF THE INDUSTRY. THE OWNER WILL BE THE SOLE JUDGE OF THE ACCEPTABILITY OF THE WORK. MATERIALS AND WORK DEEMED UNACCEPTABLE WILL BE REMOVED AND REDONE AT THE SOLE COST AND RESPONSIBILITY OF THE CONTRACTOR.

GENERAL CONSTRUCTION NOTES:

- 1. BENCH MARKS USING U.S.G.S. DATUM SHALL BE OF SUCH ELEVATION THAT THE GROUND WILL SLOPE AWAY FROM IT IN ALL DIRECTIONS.

GENERAL STORM DRAINAGE & UTILITY NOTES

- 1. ALL UTILITIES, INCLUDING ELECTRIC LINES, TELEPHONE, WATER, SANITARY SEWER LINES, AND STORM SEWER LINES SHALL BE LOCATED UNDERGROUND AND SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE VILLAGE OF OSSINING AND THE UTILITY COMPANIES HAVING JURISDICTION.

GENERAL EROSION CONTROL NOTES:

- 1. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH ALL SEDIMENT AND EROSION CONTROL PRACTICES, THE SEDIMENT AND EROSION CONTROL PRACTICES ARE TO BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCES, AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.

MAINTENANCE OF TEMPORARY EROSION AND SEDIMENT CONTROL STRUCTURES:

- 1. TREES AND VEGETATION SHALL BE PROTECTED AT ALL TIMES AS SHOWN ON THE DETAIL DRAWING AND AS DIRECTED BY THE ENGINEER.

MAINTENANCE SCHEDULE:

Table with columns: Activity, DAILY, WEEKLY, MONTHLY, AFTER RAINFALL, NECESSARY TO MAINTAIN FUNCTION, AFTER APPROVAL OF INSPECTOR. Rows include SILT FENCE, WHEEL CLEANER, INLET PROTECTION.

MAINTENANCE OF PERMANENT CONTROL STRUCTURES DURING CONSTRUCTION:

THE STORMWATER MANAGEMENT SYSTEM AND OUTLET STRUCTURE SHALL BE INSPECTED ON A REGULAR BASIS AND AFTER EVERY RAINFALL EVENT. SEDIMENT BUILD UP SHALL BE REMOVED FROM THE INLET PROTECTION REGULARLY TO INSURE DETENTION CAPACITY AND PROPER DRAINAGE.

MAINTENANCE OF CONTROLS AFTER CONSTRUCTION:

CONTROLS (INCLUDING RESPECTIVE OUTLET STRUCTURES) SHOULD BE INSPECTED PERIODICALLY FOR THE FIRST FEW MONTHS AFTER CONSTRUCTION AND ON AN ANNUAL BASIS THEREAFTER. THEY SHOULD ALSO BE INSPECTED AFTER MAJOR STORM EVENTS.

DEBRIS AND LITTER REMOVAL:

TWICE A YEAR, INSPECT OUTLET STRUCTURE AND DRAIN INLETS FOR ACCUMULATED DEBRIS. ALSO, REMOVE ANY ACCUMULATIONS DURING EACH MOVING OPERATION.

STRUCTURAL REPAIR/REPLACEMENT:

OUTLET STRUCTURE MUST BE INSPECTED TWICE A YEAR FOR EVIDENCE OF STRUCTURAL DAMAGE AND REPAIRED IMMEDIATELY.

EROSION CONTROL:

UNSTABLE AREAS TRIBUTARY TO THE BASIN SHALL IMMEDIATELY BE STABILIZED WITH VEGETATION OR OTHER APPROPRIATE EROSION CONTROL MEASURES.

SEDIMENT REMOVAL:

SEDIMENT SHOULD BE REMOVED AFTER IT HAS REACHED A MAXIMUM DEPTH OF FIVE INCHES ABOVE THE STORMWATER MANAGEMENT SYSTEM FLOOR.

TOPSOIL:

EXISTING TOPSOIL WILL BE REMOVED AND STORED IN PILES SUFFICIENTLY AS TO AVOID MIXING WITH OTHER EXCAVATION. STOCKPILES SHALL BE SURROUNDED BY EROSION CONTROL AS OUTLINED ON THESE PLANS.

- 1. THE PH OF THE MATERIAL SHALL BE 5.5 TO 7.6.
2. THE ORGANIC CONTENT SHALL NOT BE LESS THAN 2% OR MORE THAN 70%.
3. GRADATION: SIEVE SIZE % PASSING BY WGT.

PERMANENT VEGETATIVE COVER:

- 1. SITE PREPARATION:
1.1. INSTALL EROSION CONTROL MEASURES.
1.2. SCARIFY COMPACTED SOIL AREAS.
1.3. LIME AS REQUIRED TO PH 6.5.
1.4. FERTILIZE WITH 10-6-4 4 LBS/1,000 S.F.
1.5. INCORPORATE AMENDMENTS INTO SOIL WITH DISC HARROW.
2. SEED MIXTURES FOR USE ON SWALES AND CUT AND FILL AREAS.

Table with columns: MIXTURE, LBS./ACRE. Rows include ALT. A (Kentucky Blue Grass, Creeping Red Fescue, Rye Grass or Redtop), ALT. B (Creeping Red Fescue, Redtop, Tall Fescue/Smooth Bloomgrass), and SEEDING (Prepare seed bed, Apply soil amendments, Apply seed uniformly, Stabilize seeded areas, Irrigate to fully saturate soil layer, Seed between April 1st and May 15th, Seeding may occur May 15th and August 15th).

TEMPORARY VEGETATIVE COVER:

- 1. INSTALL EROSION CONTROL MEASURES.
2. SCARIFY AREAS OF COMPACTED SOIL.
3. FERTILIZE WITH 10-10-10 AT 400ACRE.
4. LIME AS REQUIRED TO PH 6.5.

SEED SPECIES: MIXTURE LBS./ACRE. RYPERN 20

SEEDING: SAME AS PERMANENT VEGETATIVE COVER

CONSTRUCTION SEQUENCE:

Refer to the Plan Set for all plans and details which relate to Construction Sequence.

- 1. 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, limits of disturbance, utility lines, and stormwater practices.
2. CARE SHOULD BE TAKEN SO AS NOT TO CHANNEL CONCENTRATED RUNOFF THROUGH THE AREAS OF CONSTRUCTION ACTIVITY ON THE SITE.
3. FILL AND SITE DISTURBANCES SHOULD NOT BE CREATED WHICH CAUSES WATER TO POND OFF SITE OR ON ADJACENT PROPERTIES.

Winter Stabilization Notes:

If construction activities are expected to extend into or occur during the winter season the contractor shall anticipate proper stabilization and sequencing. Construction shall be sequenced such that wherever possible areas of disturbance that can be completed and permanently stabilized shall be done by applying and establishing permanent vegetative cover before the first frost.

CONTRACTOR CERTIFICATION STATEMENT

Certification Statement - All contractors and subcontractors as identified in a SWPPP, by the Owner or Operator, in accordance with Part III A.5 of the SPDES General Permit for Stormwater Runoff from Construction Activity, GP-0-15-002, dated January 12, 2015, Page 10 of 40, shall sign a copy of the following Certification Statement before undertaking any construction activity at the Site identified in the SWPPP:

"I hereby certify that I understand and agree to comply with the terms and conditions of the SWPPP and agree to implement any corrective actions that are expected to occur during the winter season the contractor shall anticipate proper stabilization and sequencing. Construction shall be sequenced such that wherever possible areas of disturbance that can be completed and permanently stabilized shall be done by applying and establishing permanent vegetative cover before the first frost.

Individual Contractor: \_\_\_\_\_
Name and Title (please print): \_\_\_\_\_
Signature of Contractor: \_\_\_\_\_
Company / Contracting Firm: \_\_\_\_\_
Name of Company: \_\_\_\_\_
Address of Company: \_\_\_\_\_
Telephone Number / Cell Number: \_\_\_\_\_
Site Information: \_\_\_\_\_
Address of Site: \_\_\_\_\_
Today's Date: \_\_\_\_\_

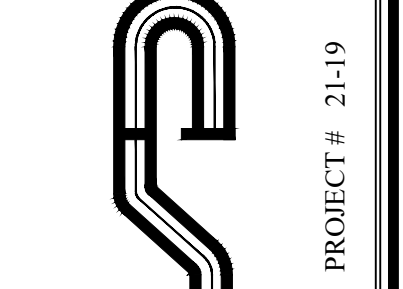
OWNER / OPERATOR CERTIFICATION

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. Further, I hereby certify that the SWPPP meets all Federal, State, and local erosion and sediment control requirements. I am aware that false statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law."

Name (please print): \_\_\_\_\_
Title: \_\_\_\_\_
Date: \_\_\_\_\_
Address: \_\_\_\_\_
Phone: \_\_\_\_\_
E-mail: \_\_\_\_\_
Signature: \_\_\_\_\_

LEGEND

- 222 --- EXISTING GRADING
--- X 222.8 --- EXISTING SPOT GRADE
--- 200 --- PROPOSED GRADING
--- --- PROPERTY LINE / RIGHT OF WAY
--- --- PROPOSED ROAD CENTERLINE
--- --- PROPOSED CURB
--- --- EDGE OF WETLAND
--- --- 100' WETLAND BUFFER
--- W --- EXISTING WATER LINE
--- --- EXISTING FIRE HYDRANT
--- --- PROPOSED FIRE HYDRANT
--- --- CONSERVATION EASEMENT LINE
--- --- APPROX. AREA OF ROCK OUTCROP
--- --- EXISTING STONE WALL
--- --- EXISTING STONE WALLS TO BE REMOVED
--- --- EXISTING DRAINAGE INLET
--- --- EXISTING SANITARY LINE
--- --- EXISTING HEADWALL
--- --- PROPOSED DRAINAGE LINE
--- --- PROPOSED CATCH BASIN
--- --- PROPOSED DRAINAGE MANHOLE
--- --- PROPOSED FOOTING DRAIN
--- --- PROPOSED ROOF DRAIN
--- --- PROPOSED SEWER SERVICE CONNECTION
--- WS --- PROPOSED WATER SERVICE CONNECTION
--- --- PROPOSED HOUSE AND DRIVE
--- --- PROPOSED SOIL STOCKPILES
--- --- PROPOSED SILT FENCE
--- --- PROPOSED CRUSHED STONE INLET PROTECTION
--- --- PROPOSED STABILIZED CONSTRUCTION ENTRANCE
--- --- PROPOSED LIMIT OF DISTURBANCE



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Table with columns: No., Date, Comments. For recording revisions.

Table with columns: SCALE (NTS), DRAWN BY (TK), DATE (7/29/21).

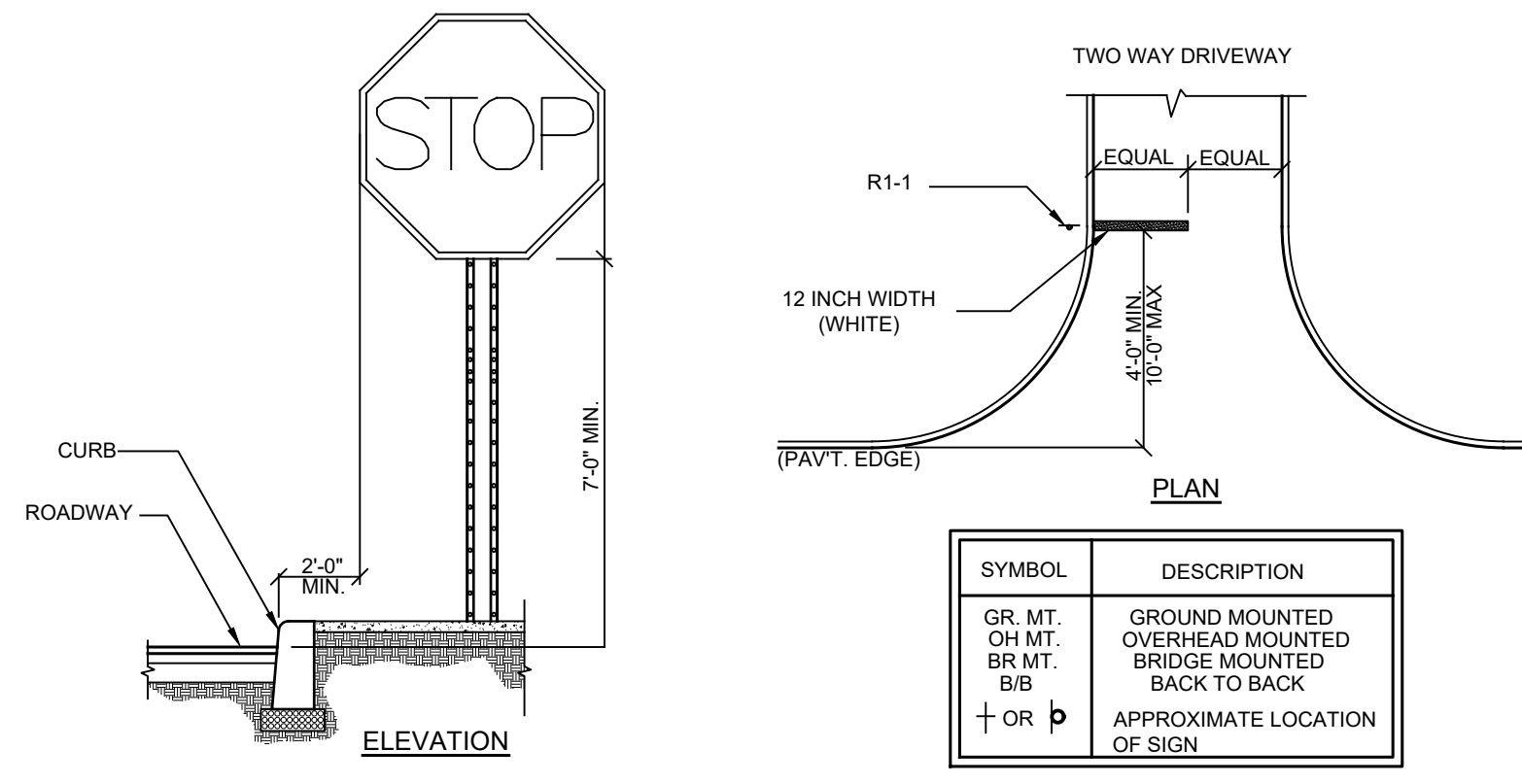
NOTES

SITE PLAN PREPARED FOR
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1750 EAST MAIN STREET
Yorktown, Westchester County, New York

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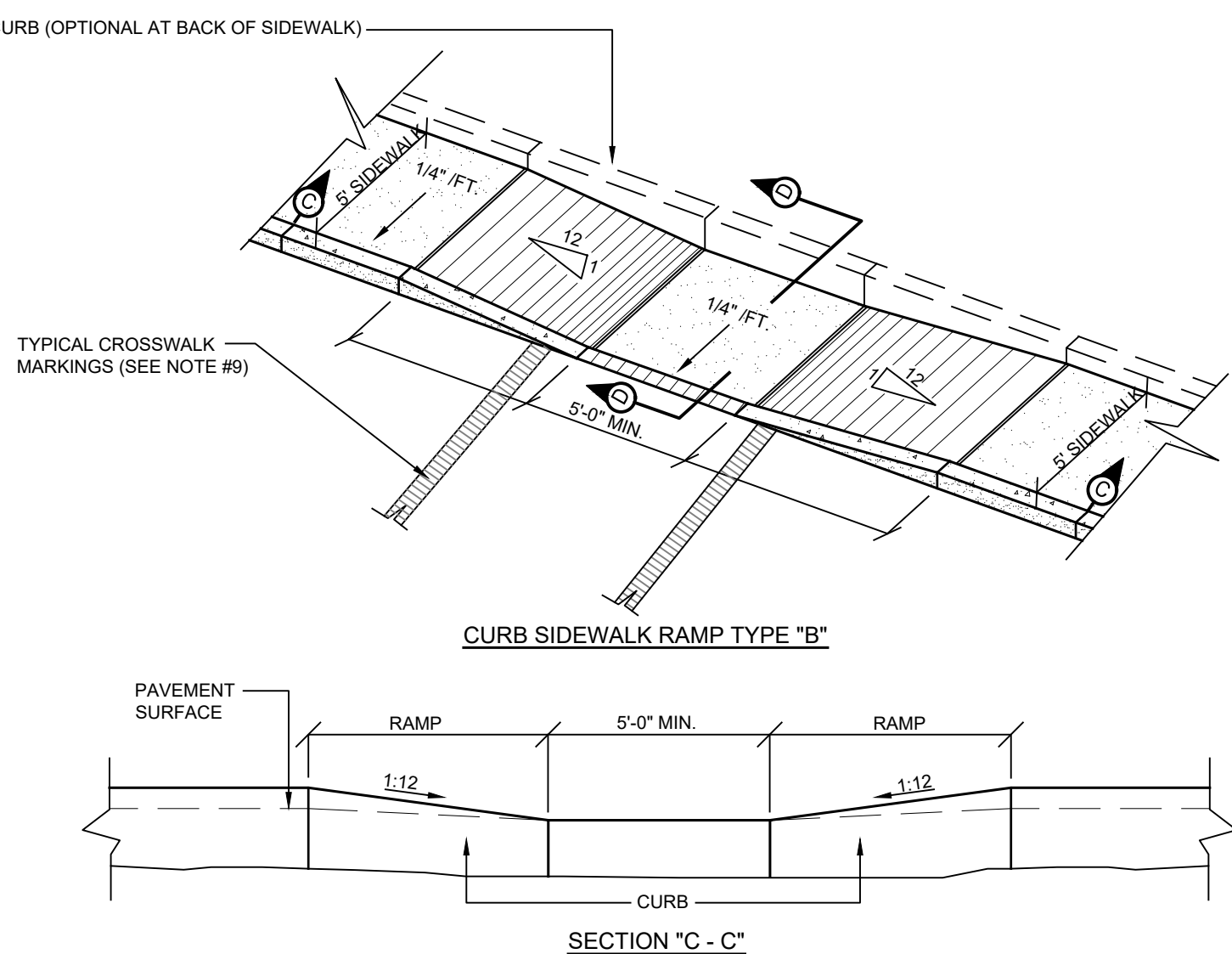
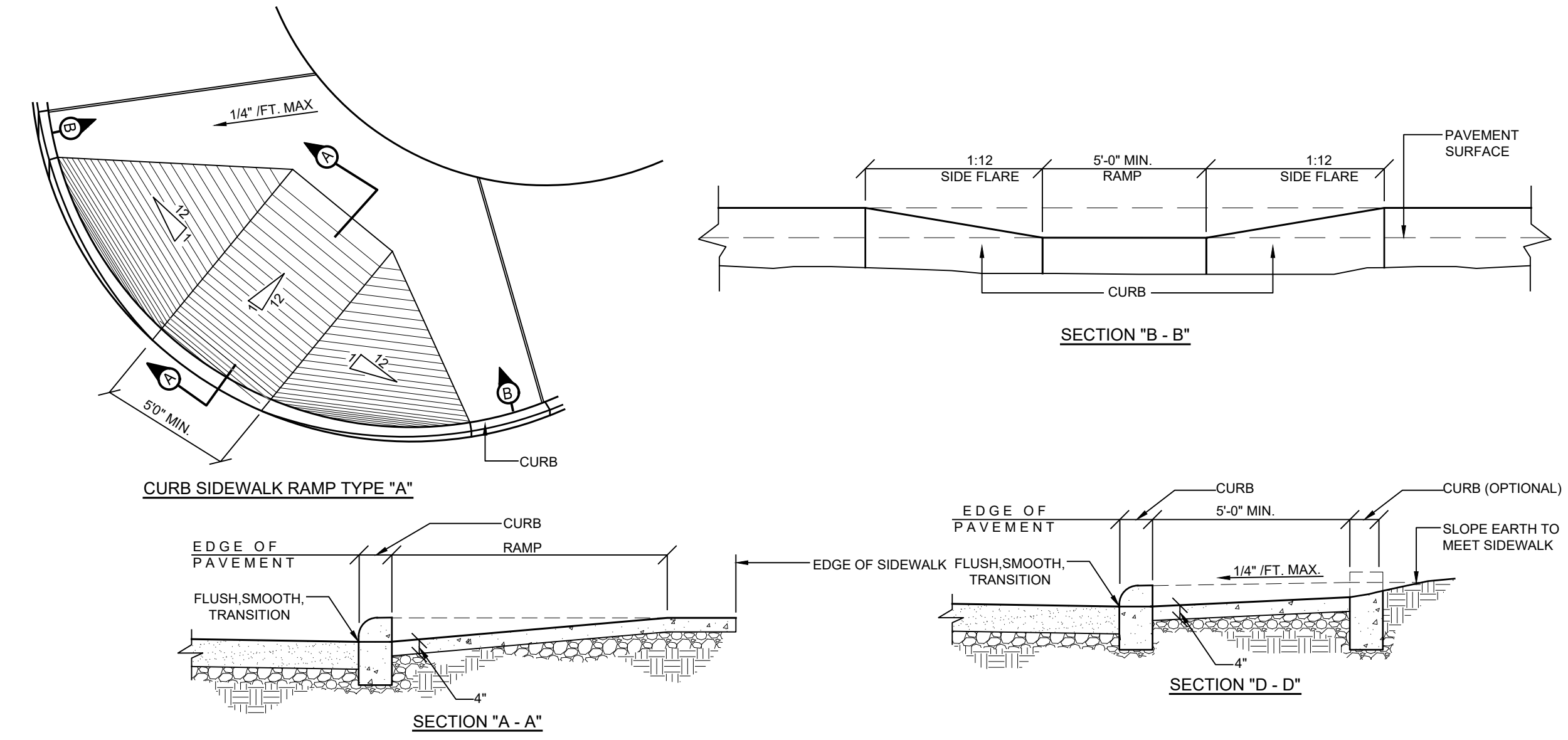
TYPICAL INSTALLATION GUIDELINES

SIGN	M.U.T.C.D. NUMBER	SIZE OF SIGN	TYPE OF MOUNT
	R1-1	30" X 30"	GR. MT.
	R7-6	12" X 18"	GR. MT.

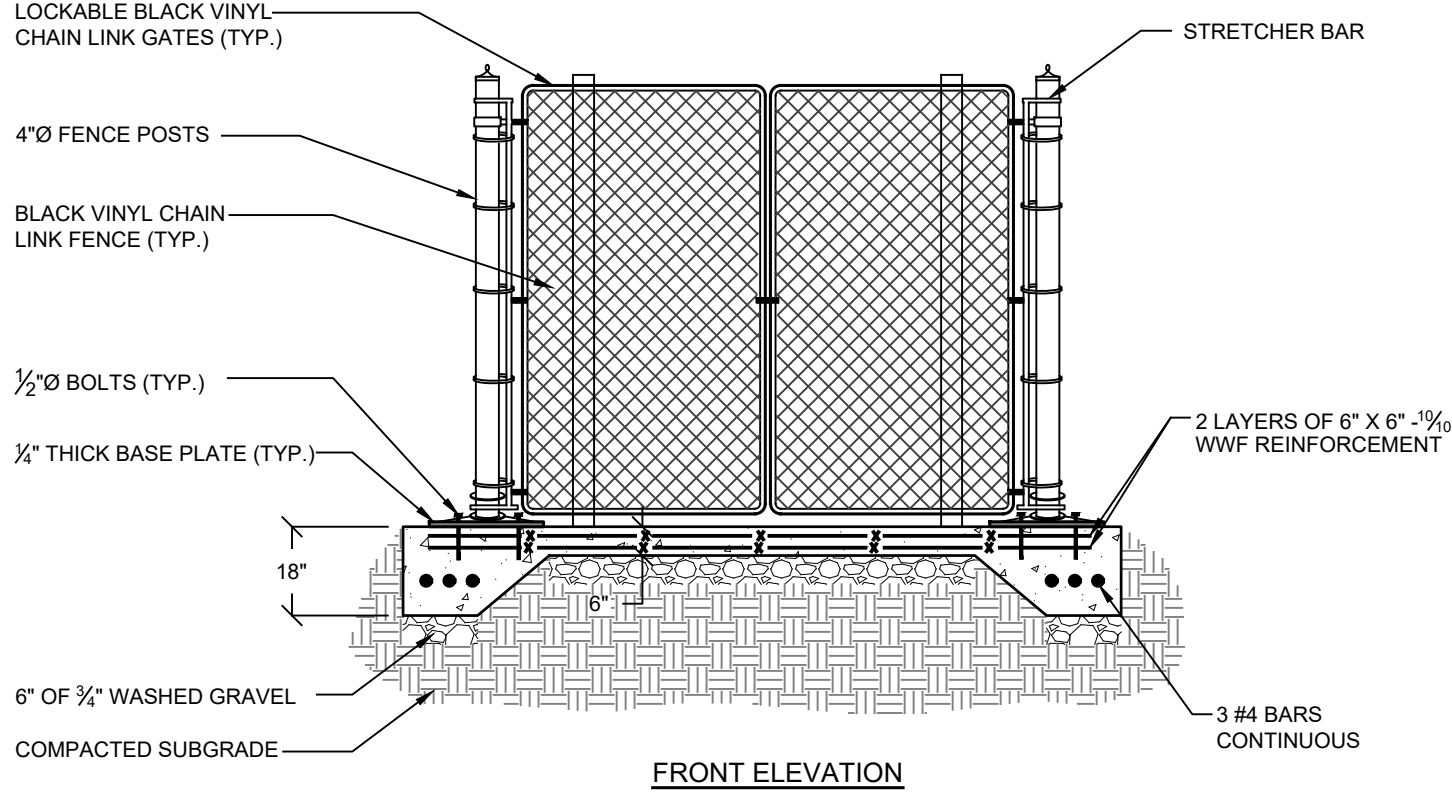
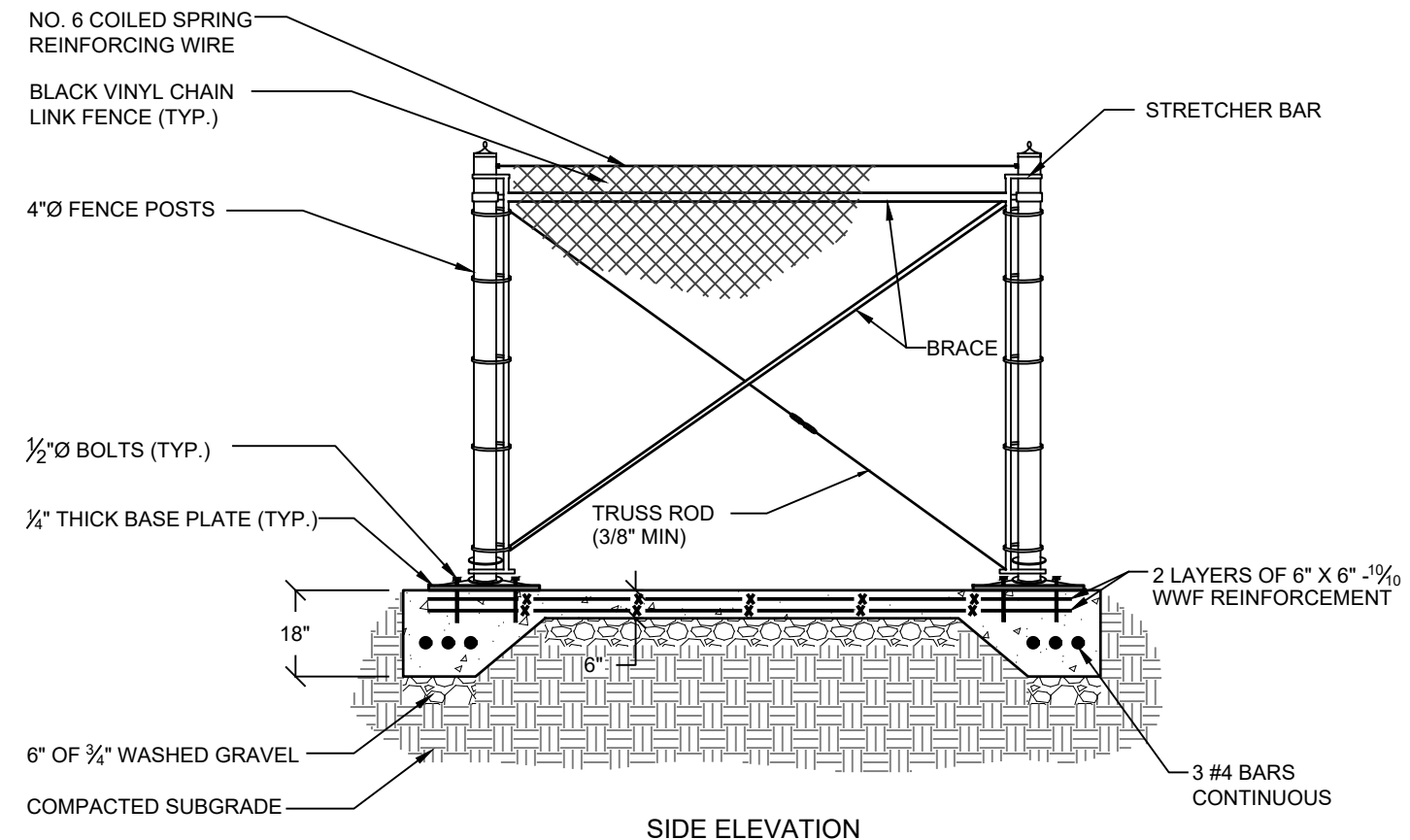
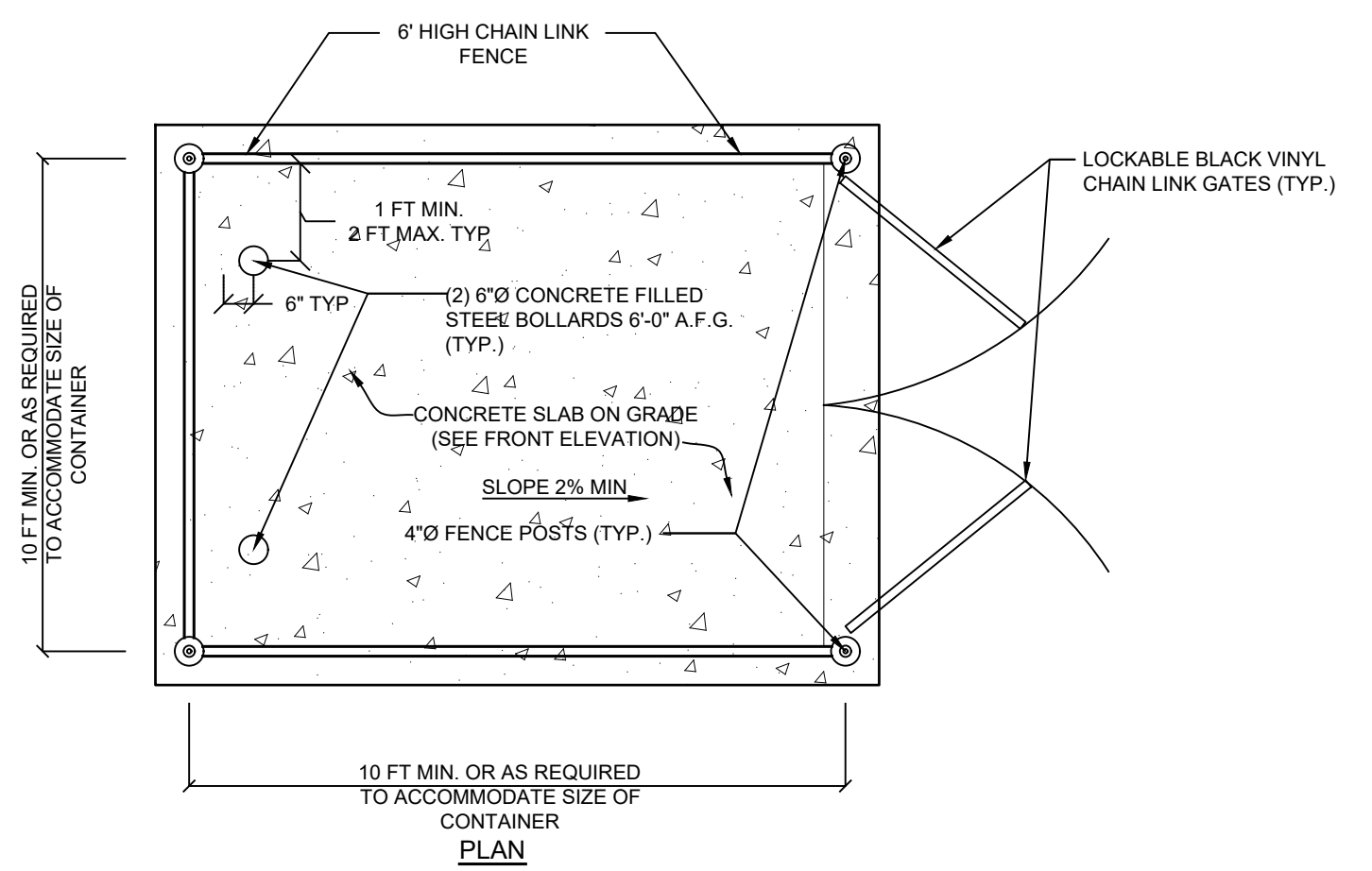
SIGN	M.U.T.C.D. NUMBER	SIZE OF SIGN	TYPE OF MOUNT
	P1-2	12" X 18"	GR. MT.

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

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

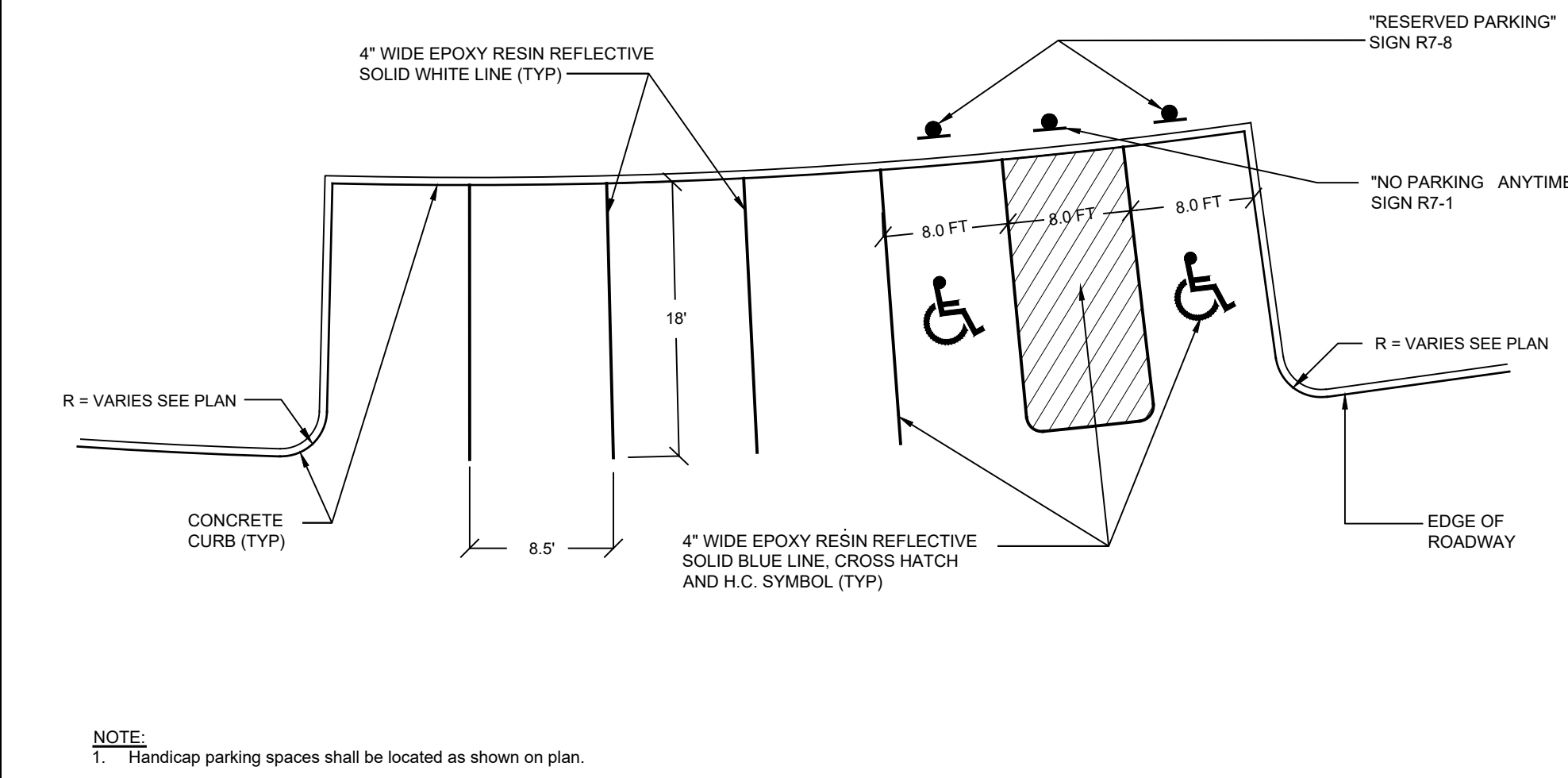


- NOTES:**
- GENERAL:**
- Sidewalk curb ramp type and location are as shown on the plans or as directed.
  - All sidewalk curb ramp types may be used as straight or curved curb sections.
  - Sidewalk curb ramp types may be different at each location within an intersection.
- SIDEWALK CURB RAMP CRITERIA:**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

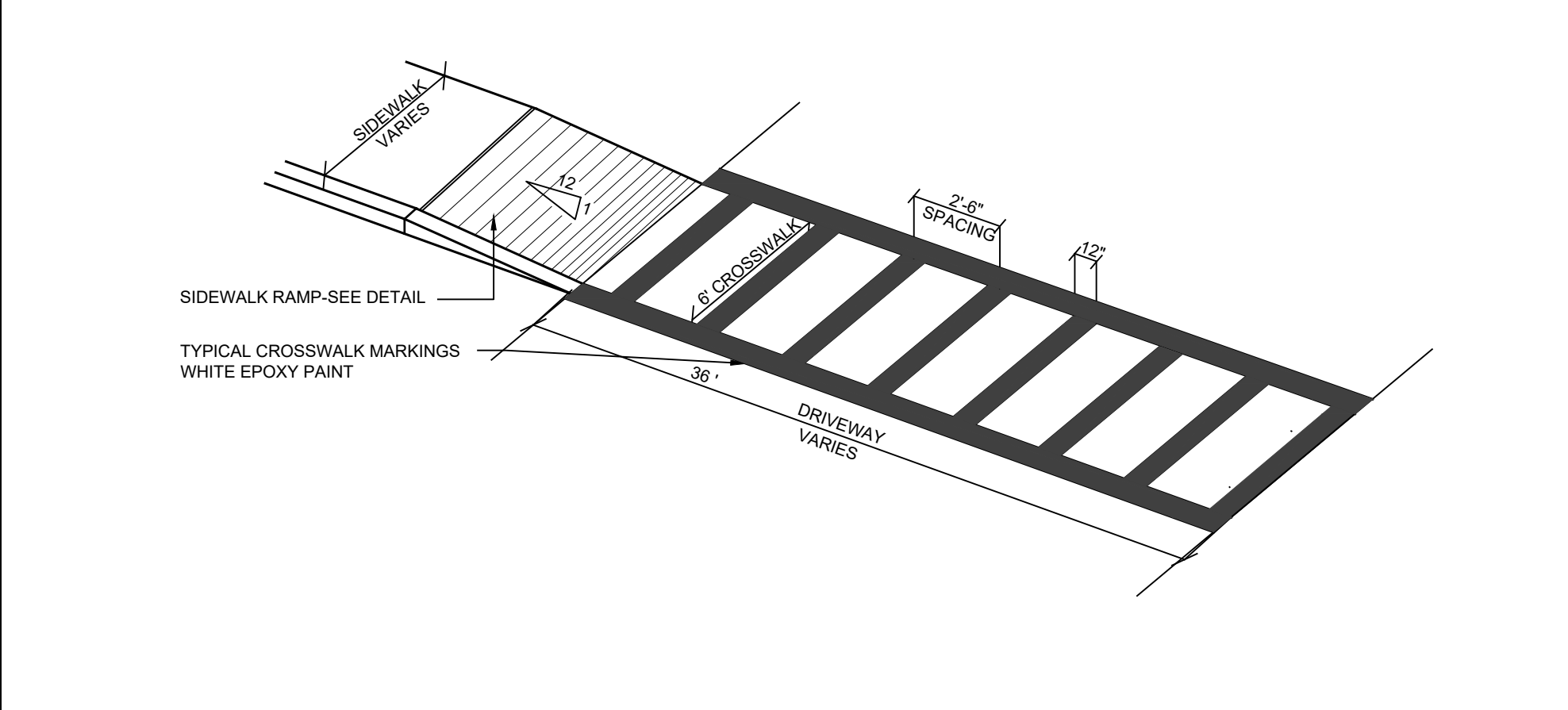


S-1 TRASH ENCLOSURE DETAIL NOT TO SCALE

R-1 TRAFFIC SIGN DETAIL NOT TO SCALE

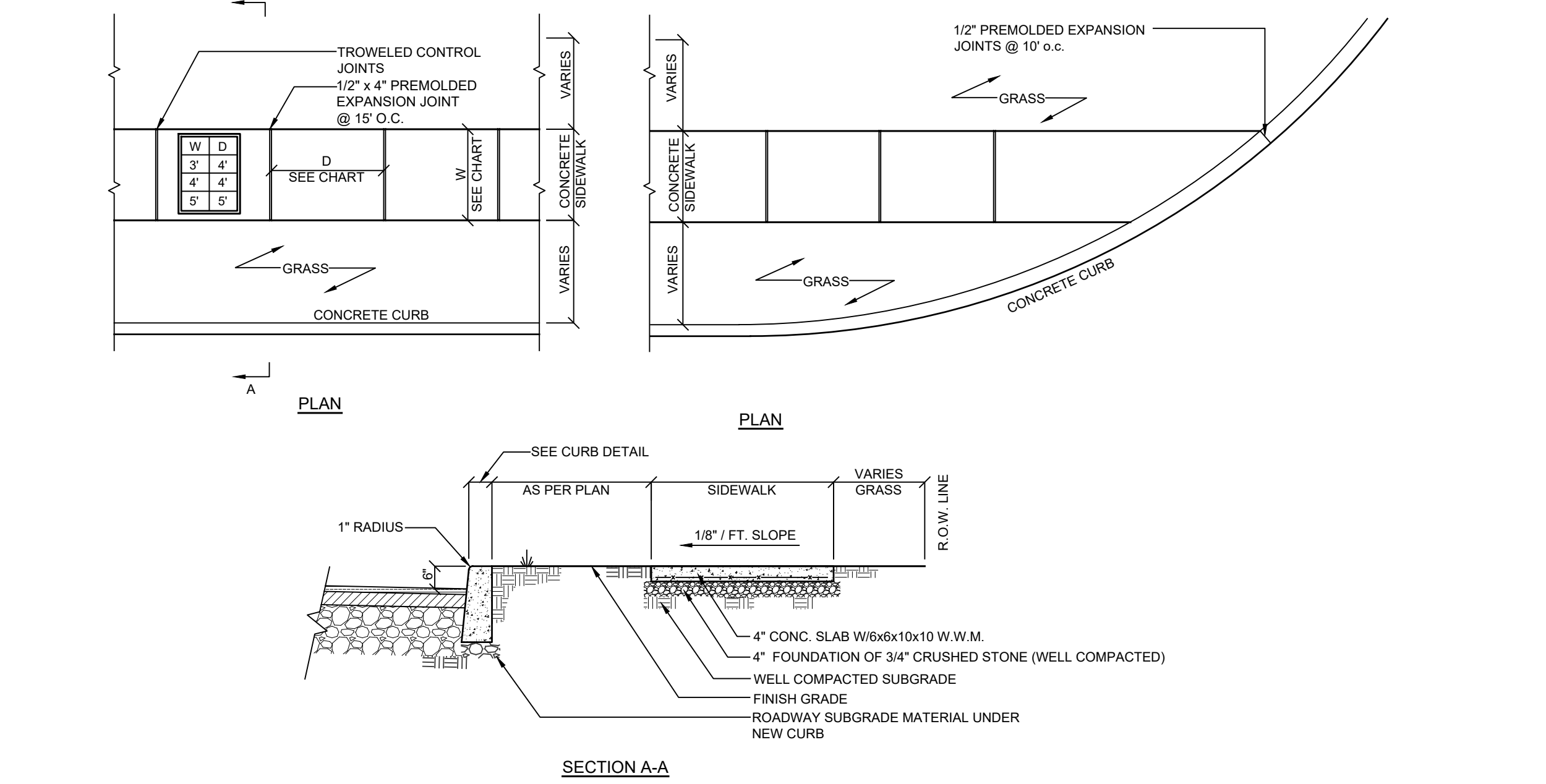


R-2 TYPICAL PARKING STALL LAYOUT NOT TO SCALE

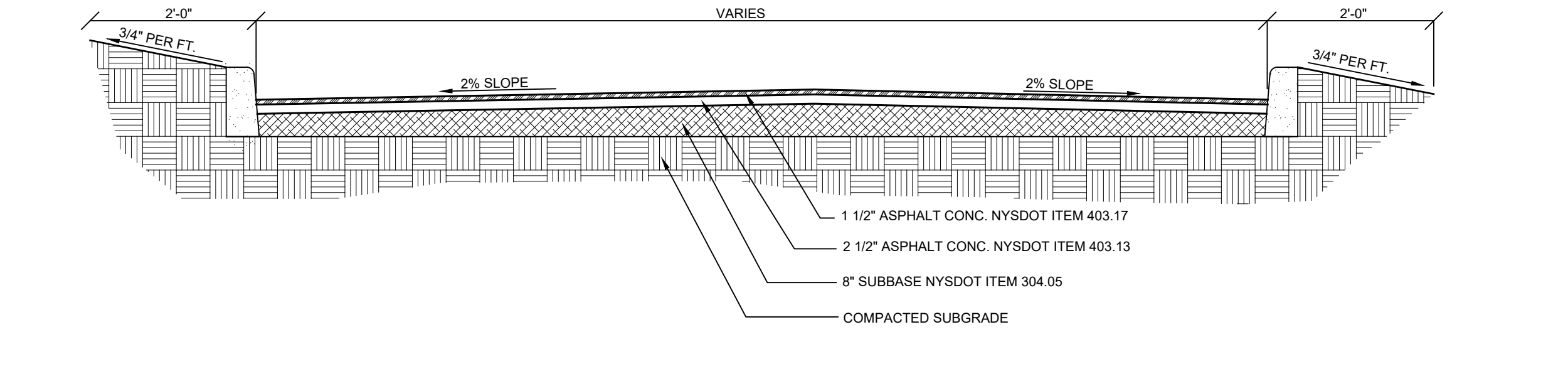


R-3 PAINTED CROSS WALK NOT TO SCALE

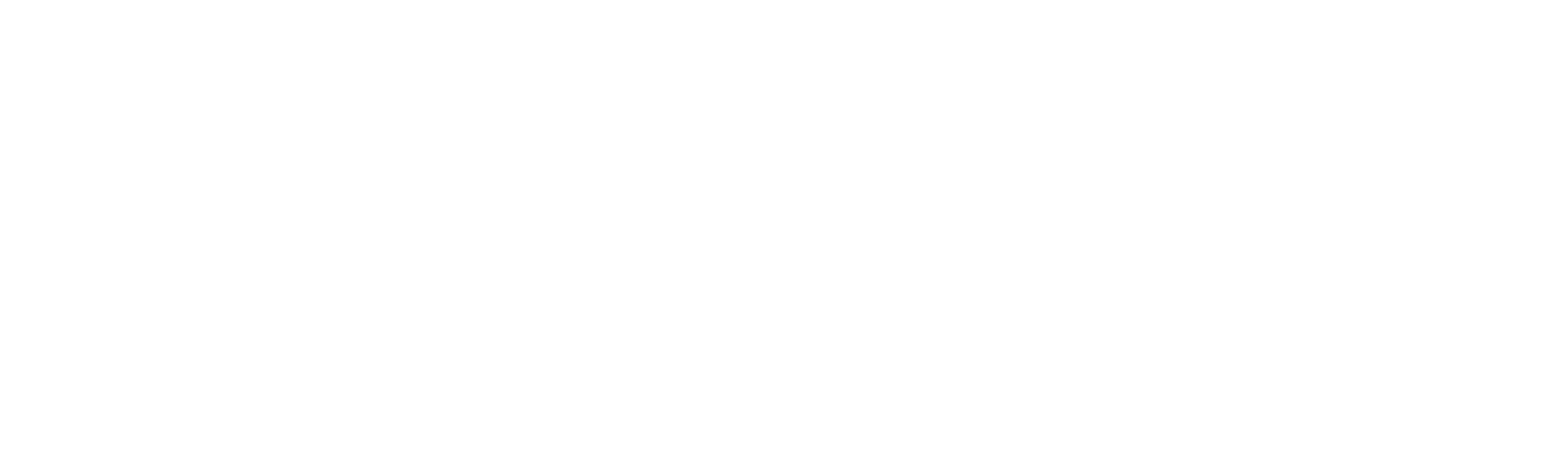
R-4 SIDEWALK CURB-RAMP DETAIL NOT TO SCALE

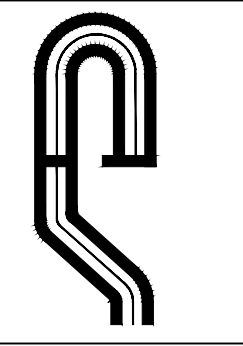


R-5 CONCRETE SIDEWALK DETAIL NOT TO SCALE

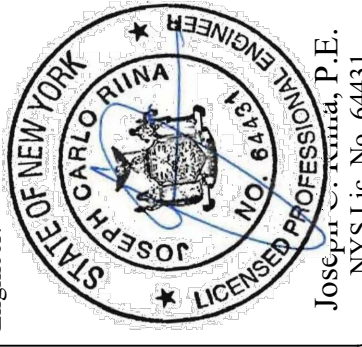


R-6 TYPICAL DRIVEWAY AND PARKING LOT SECTION NOT TO SCALE





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Engineer: Joseph J. Scarsella, P.E.  
 NYS Lic. No. 6451

SCALE: NTS  
 DRAWN BY: TK  
 DATE: 7/29/21

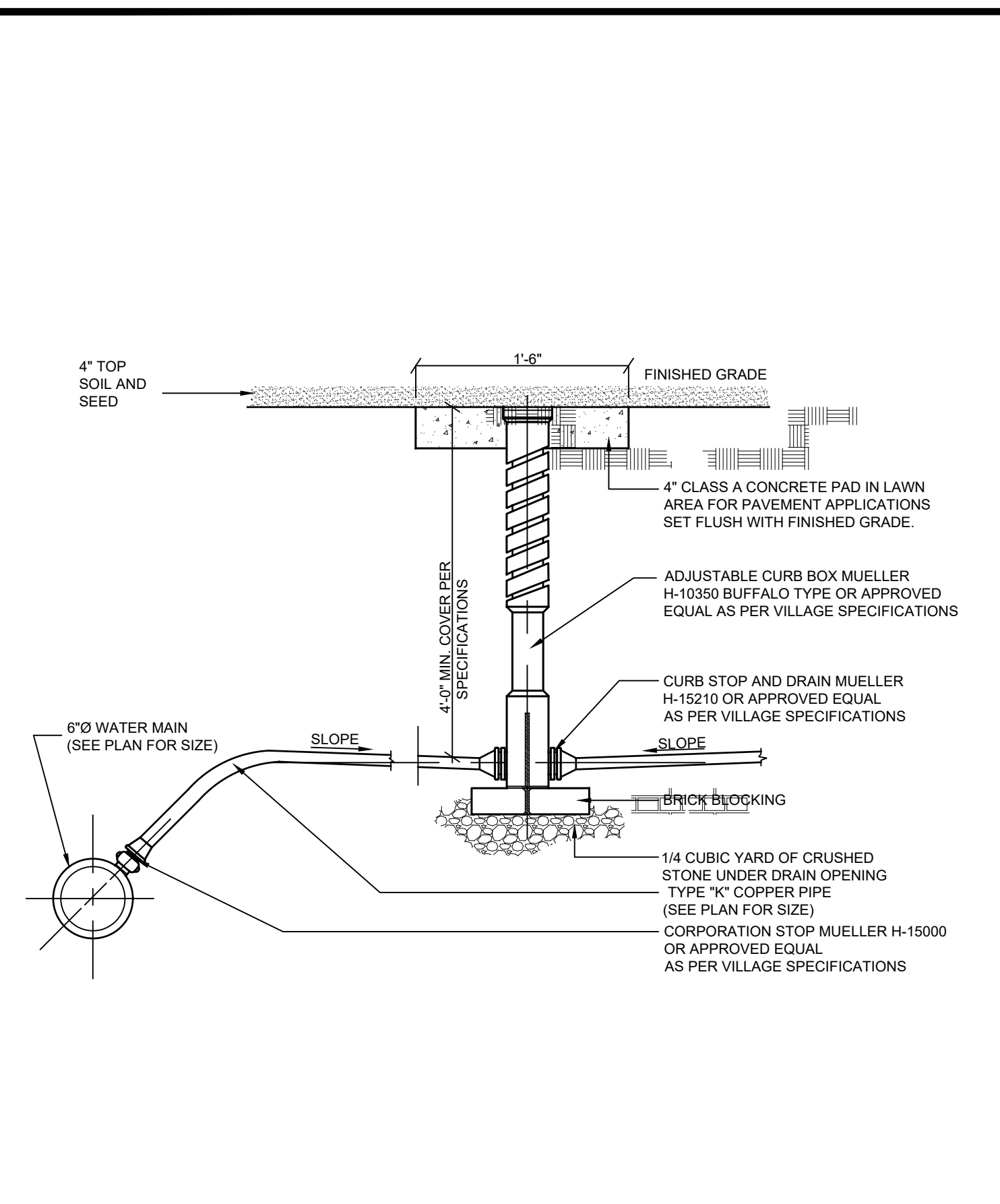
SITE DETAILS

SITE PLAN PREPARED FOR  
**HOME & HEARTH**  
 1750 EAST MAIN STREET  
 Yorktown, Westchester County, New York

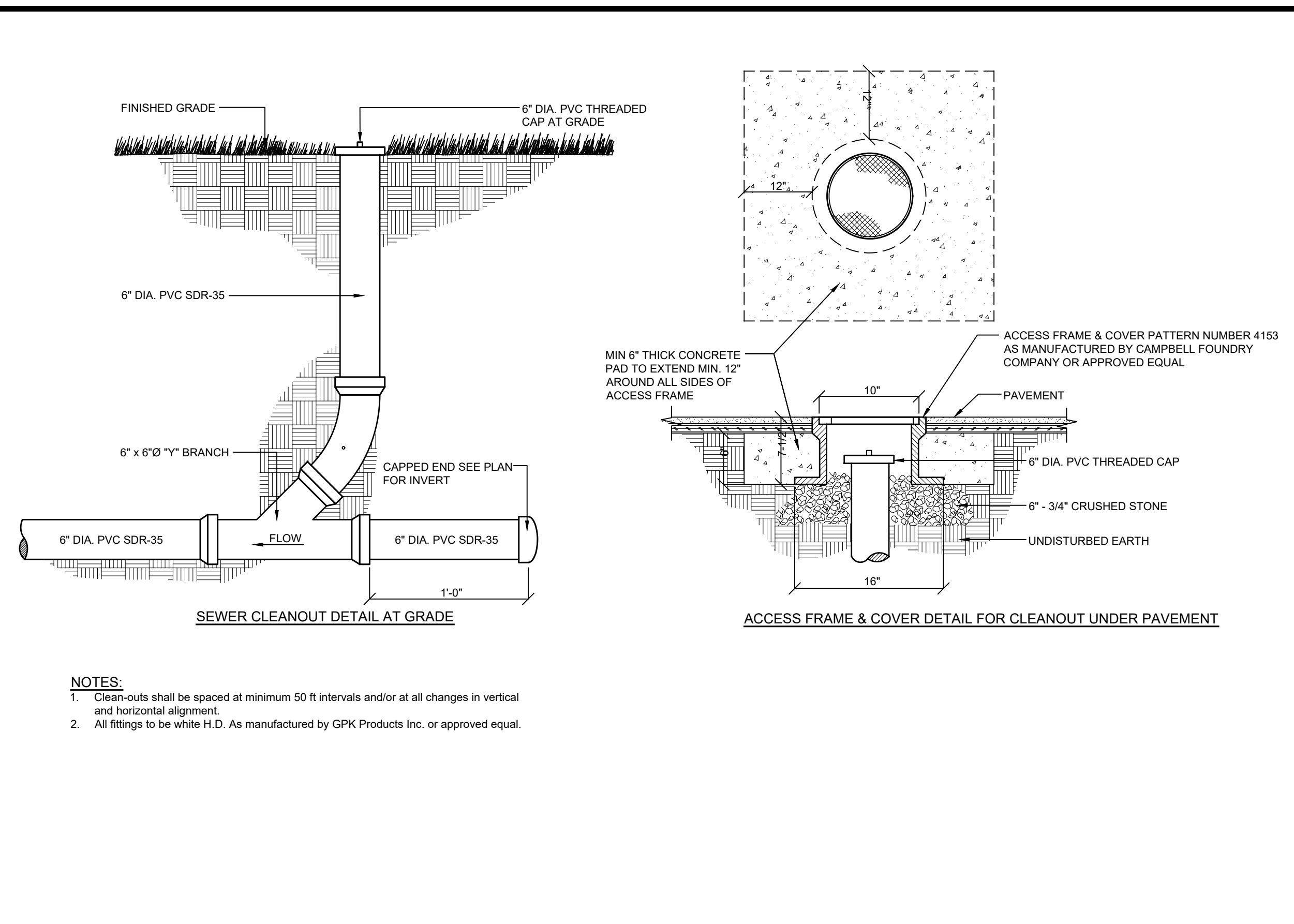
Sheet 6 of 8

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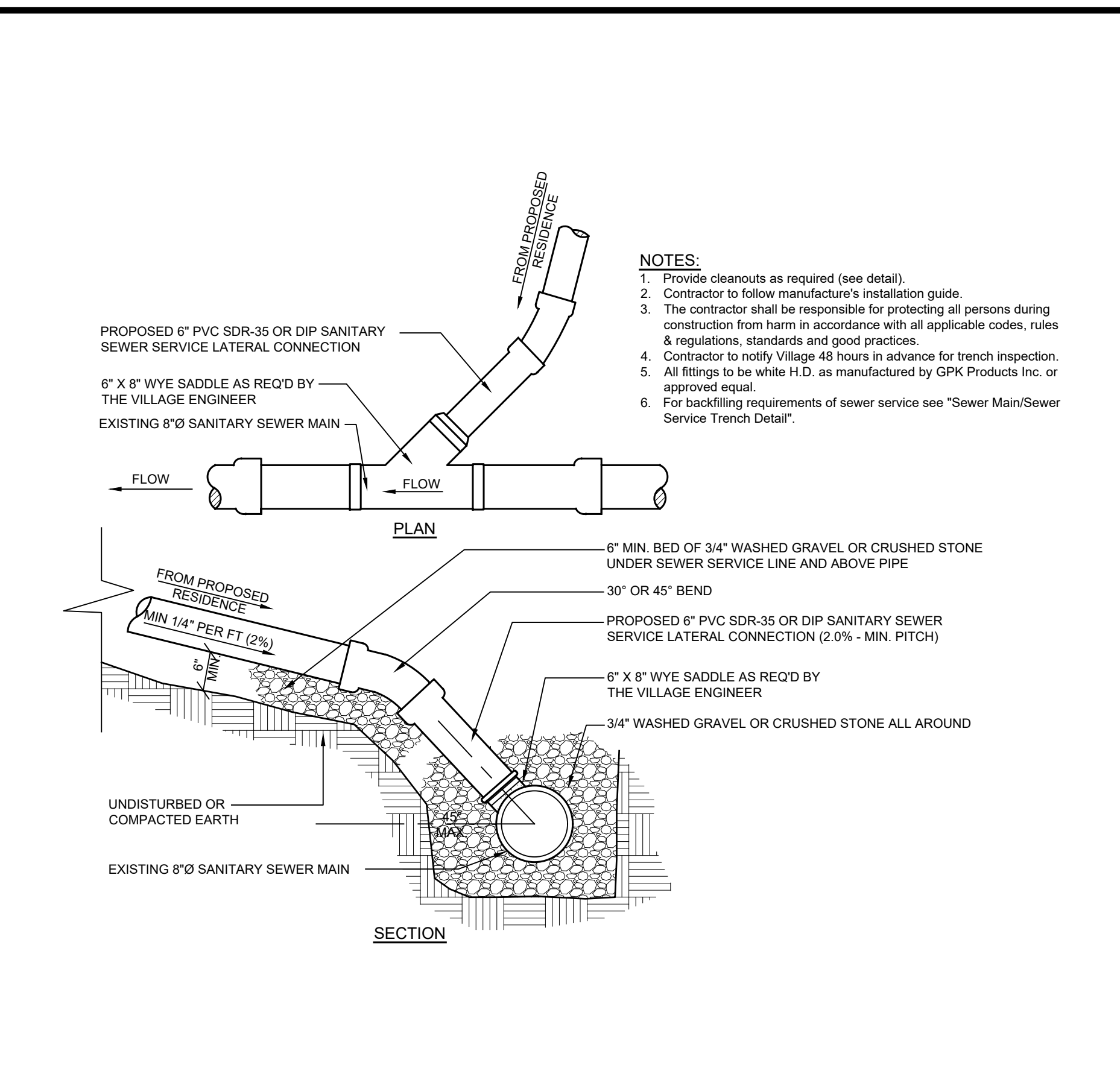
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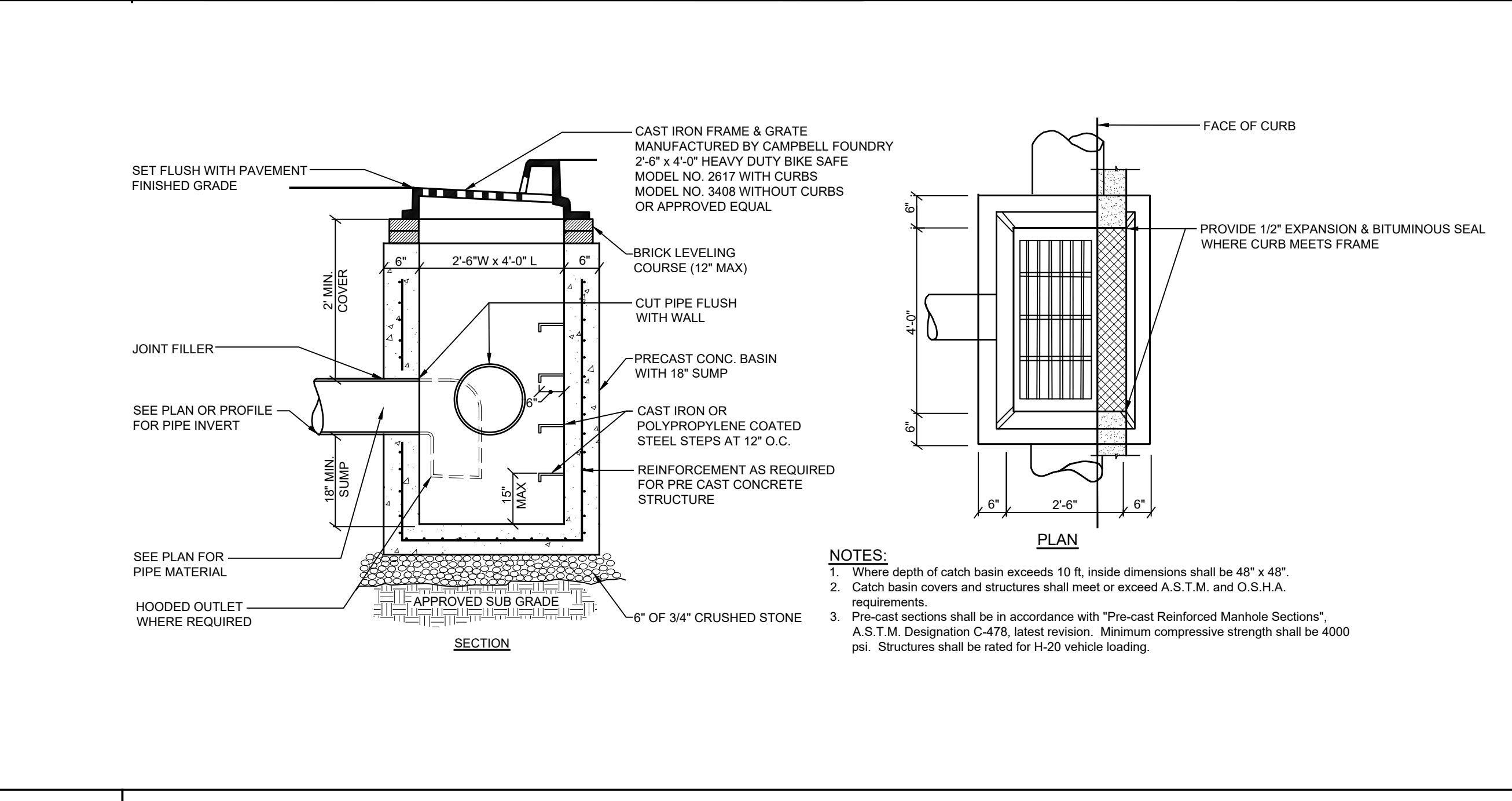
**W-1 WATER SERVICE CONNECTION DETAIL**  
NOT TO SCALE



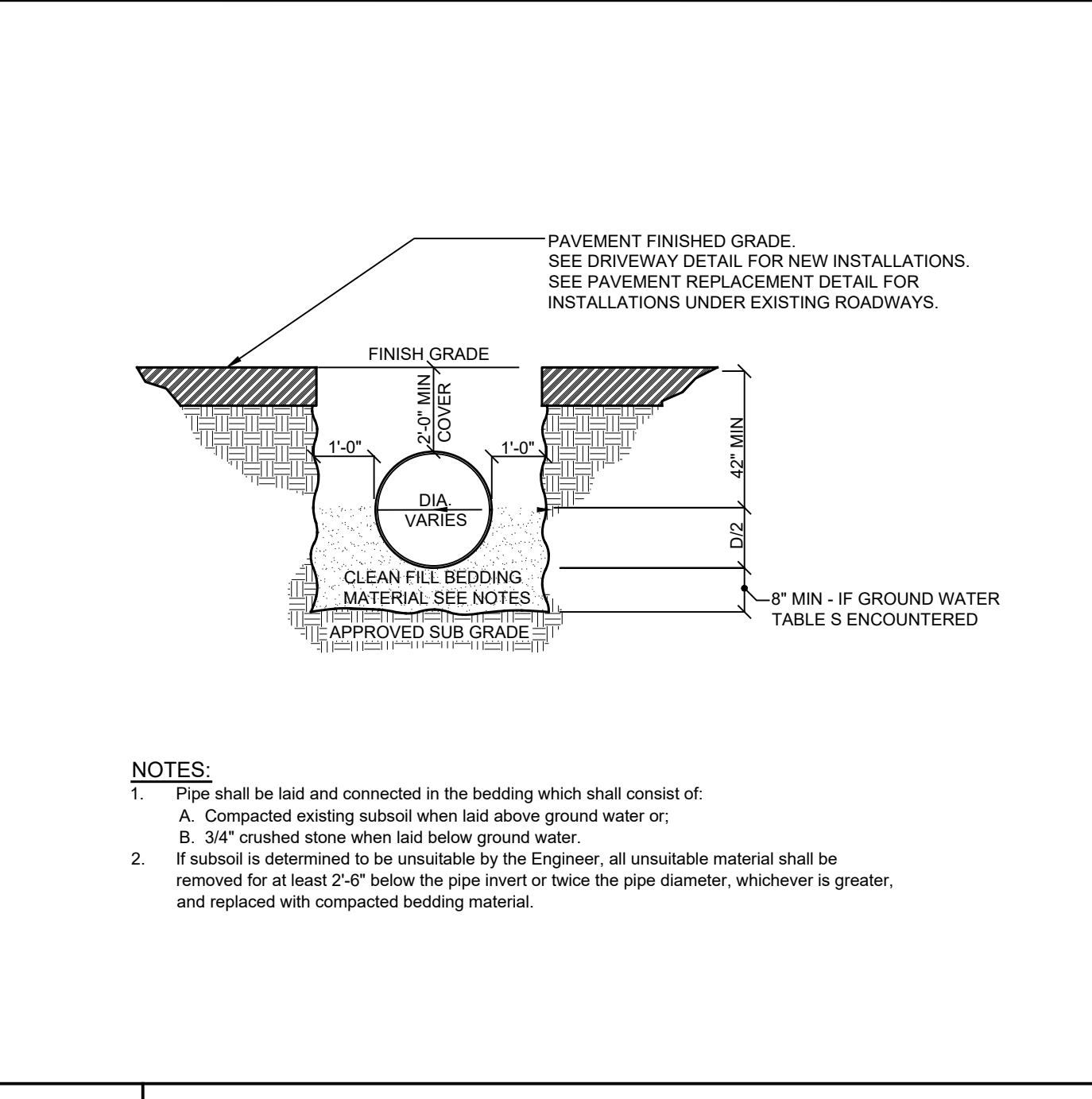
**S-1 GRAVITY SEWER LATERAL CLEAN-OUT DETAIL**  
NOT TO SCALE



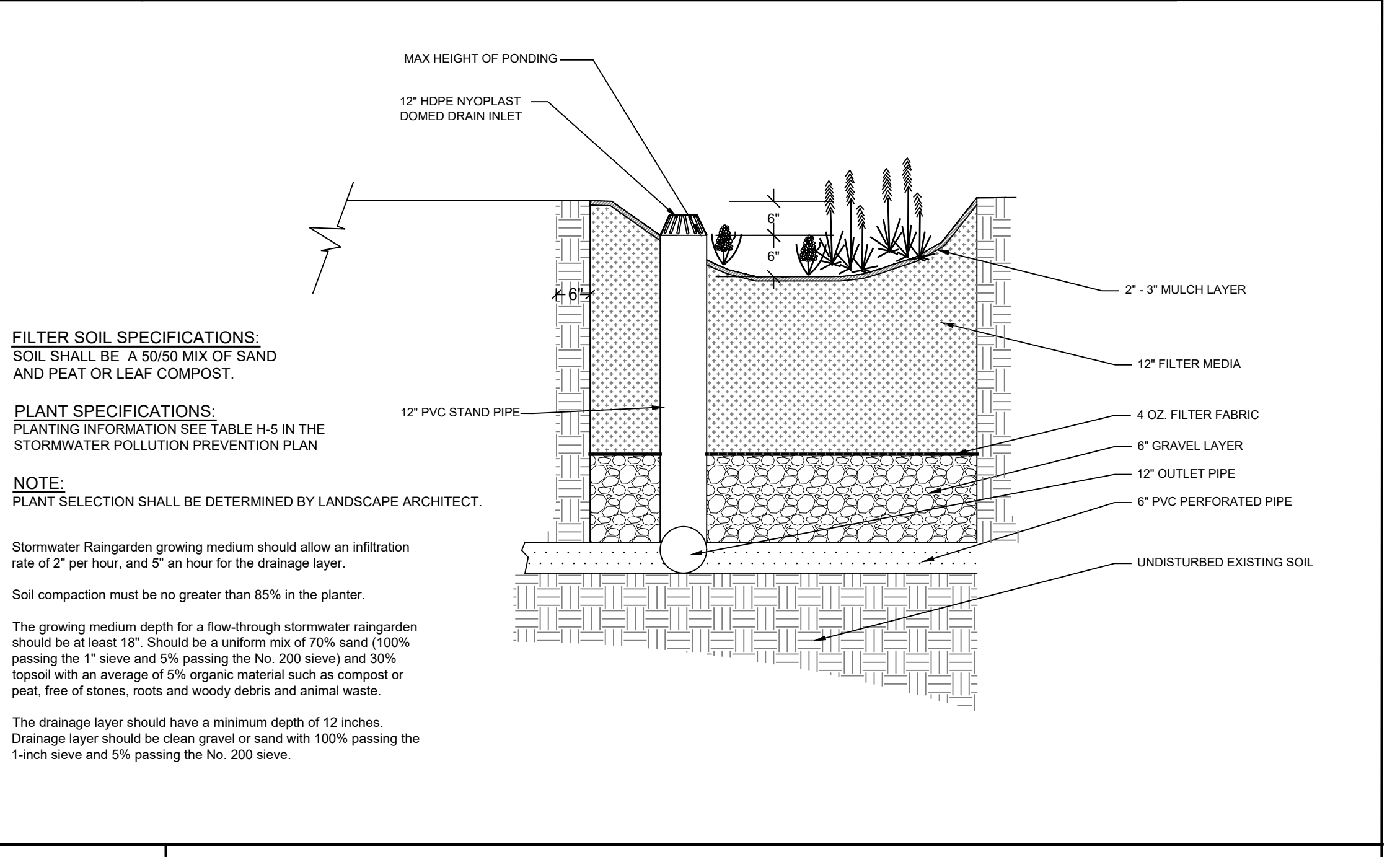
**S-2 SEWER CONNECTION TO PROPOSED MAIN-LINE DETAIL**  
NOT TO SCALE



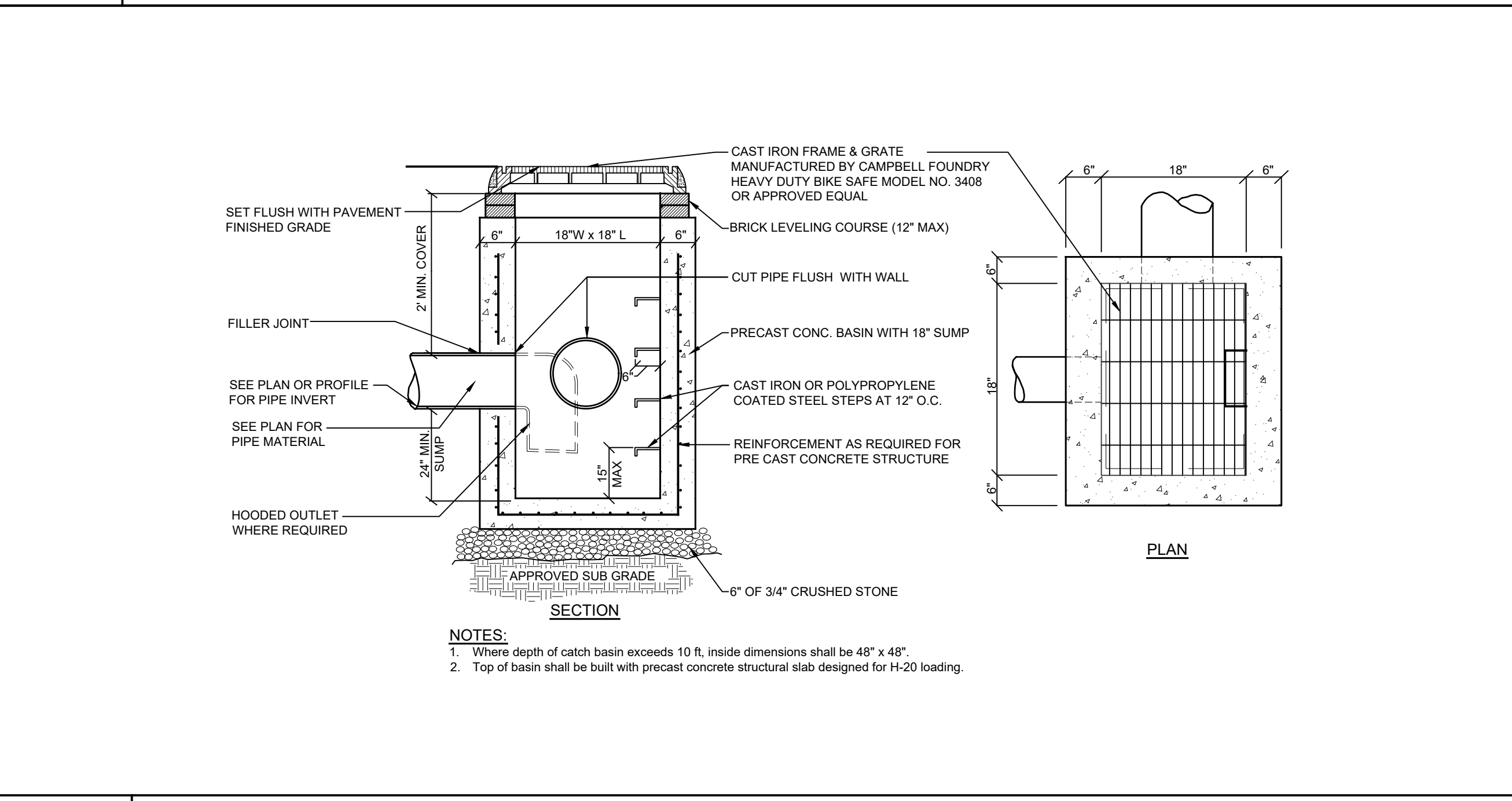
**D-1 TYPICAL CATCH BASIN DETAIL**  
NOT TO SCALE



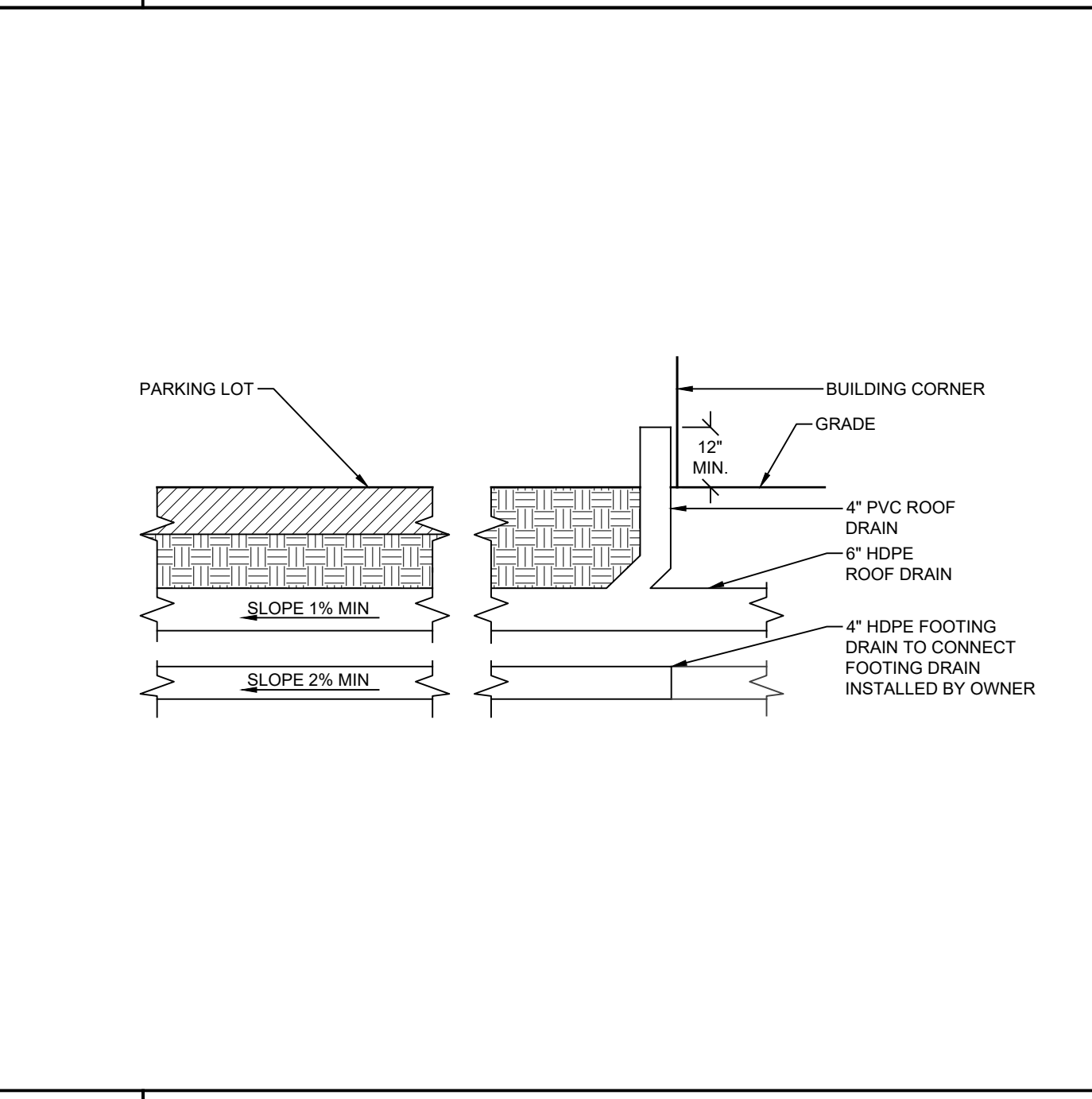
**D-2 STORM PIPE BEDDING DETAIL**  
NOT TO SCALE



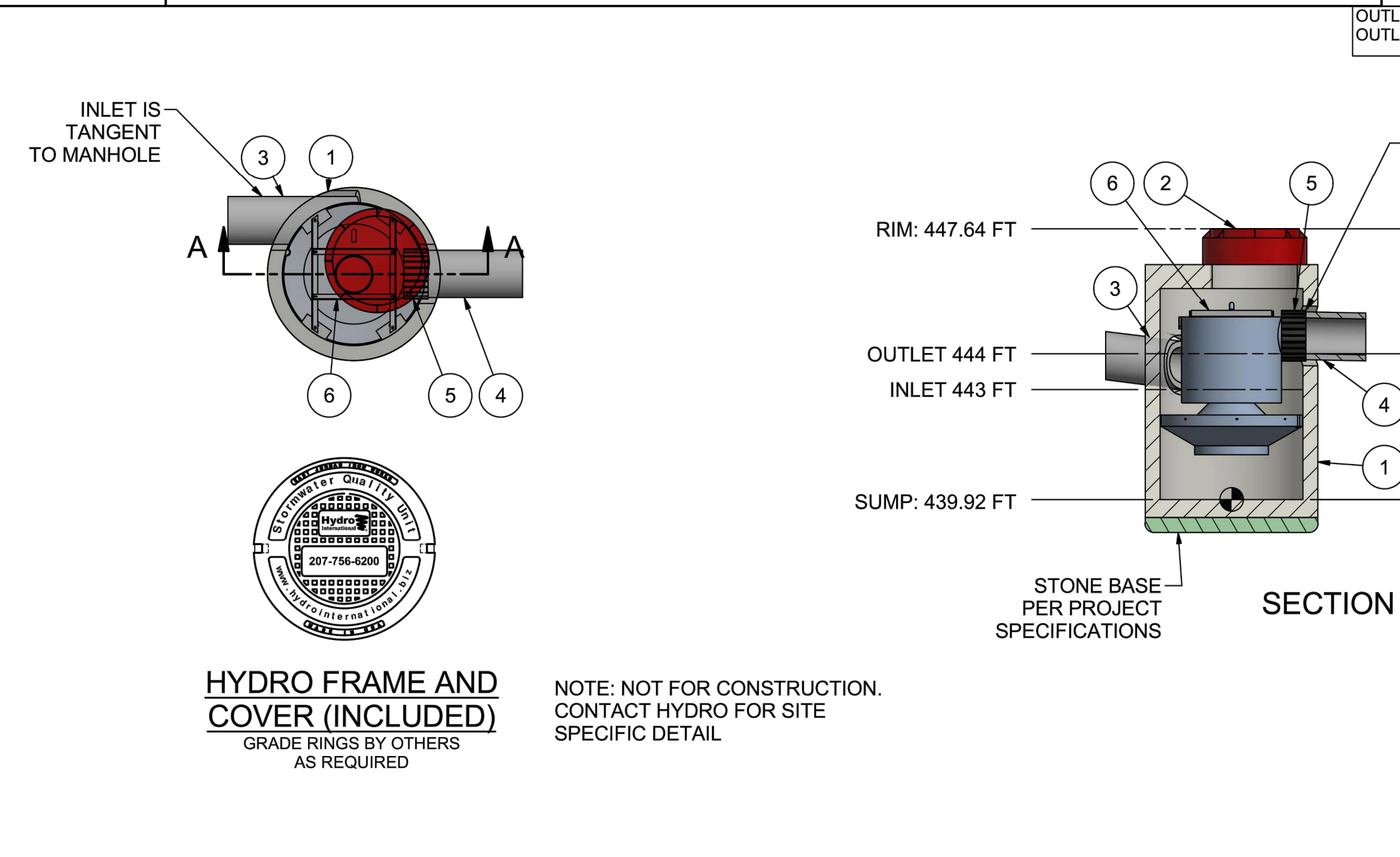
**SW-4 RAINGARDEN DETAIL**  
NOT TO SCALE



**D-3 PRECAST CATCH BASIN - DRAIN INLET DETAIL**  
NOT TO SCALE



**D-4 ROOF & FOOTING DRAIN CONNECTION DETAIL**  
NOT TO SCALE



**SW-4 HYDRO FRAME AND COVER (INCLUDED)**  
GRADE RINGS BY OTHERS AS REQUIRED

**PROJECTION**

**IF IN DOUBT ASK**

COMMENTS:

1. MANHOLE WALL AND SLAB THICKNESSES ARE NOT TO SCALE.
2. CONTACT HYDRO INTERNATIONAL FOR A BOTTOM OF STRUCTURE ELEVATION PRIOR TO SETTING DOWNSTREAM DEFENDER MANHOLE.

REVISION HISTORY:

REV. BY	DESCRIPTION	DATE

DATE: 7/28/21

DRAWN BY: TK

CHECKED BY:  

**PARTS LIST**

ITEM	DESCRIPTION	SIZE (in)
1	PRECAST MANHOLE (BY HYDRO VIA PRECASTER)	48
2	FRAME AND COVER	30
3	INLET PIPE (BY OTHERS)	12
4	OUTLET PIPE (BY OTHERS)	12
5	PIPE COUPLING (BY OTHERS)	
6	INTERNAL COMPONENTS (PRE-INSTALLED)	

HYDRO INTERNATIONAL

**EQUIPMENT PERFORMANCE**

The stormwater treatment unit shall adhere to the hydraulic parameters given in the chart below and provide the removal efficiencies and storage capacities as follows:

1. Peak Hydraulic Capacity: 3.27 cfs
2. Sediment Storage Capacity: 0.7 yd<sup>3</sup>
3. Continuous Oil Storage Capacity: 70 gal
4. Sediment shall be stored in a zone that is isolated from the main flow path and protected from reentrainment by a benching skirt.

ANY WARRANTY GIVEN BY HYDRO INTERNATIONAL WILL APPLY ONLY TO THOSE ITEMS SUPPLIED BY IT. ACCORDINGLY HYDRO INTERNATIONAL CANNOT ACCEPT ANY RESPONSIBILITY FOR ANY STRUCTURE, PLANT, OR EQUIPMENT, OR THE PERFORMANCE THEREOF, DESIGNED, BUILT, MANUFACTURED, OR SUPPLIED BY ANY THIRD PARTY. HYDRO INTERNATIONAL, WITH A POLICY OF CONTINUOUS DEVELOPMENT, RESERVES THE RIGHT TO AMEND THE SPECIFICATIONS. HYDRO INTERNATIONAL CANNOT ACCEPT LIABILITY FOR PERFORMANCE OF THE EQUIPMENT, OR ANY PART THEREOF, IF THE EQUIPMENT IS SUBJECT TO CONDITIONS OUTSIDE ANY DESIGN SPECIFICATION. HYDRO INTERNATIONAL OWNS THE COPYRIGHT OF THIS DRAWING, WHICH IS SUPPLIED IN CONFIDENCE. IT MUST NOT BE USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SUPPLIED AND MUST NOT BE REPRODUCED, IN WHOLE OR IN PART, WITHOUT PRIOR PERMISSION IN WRITING FROM HYDRO INTERNATIONAL.

**REVISION HISTORY**

REV. BY	DESCRIPTION	DATE

DATE: 7/28/21

DRAWN BY: TK

CHECKED BY:  

APPROVED BY:  

PROJECT NO:  

DRAWING NO:  

REFERENCE NUMBER:  

SHEET SIZE: 1 OF 1

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

**UTILITY DETAILS**

**HOME & HEARTH**  
1750 EAST MAIN STREET  
Town of Yorktown  
Westchester County, New York

PROJECT # 2119

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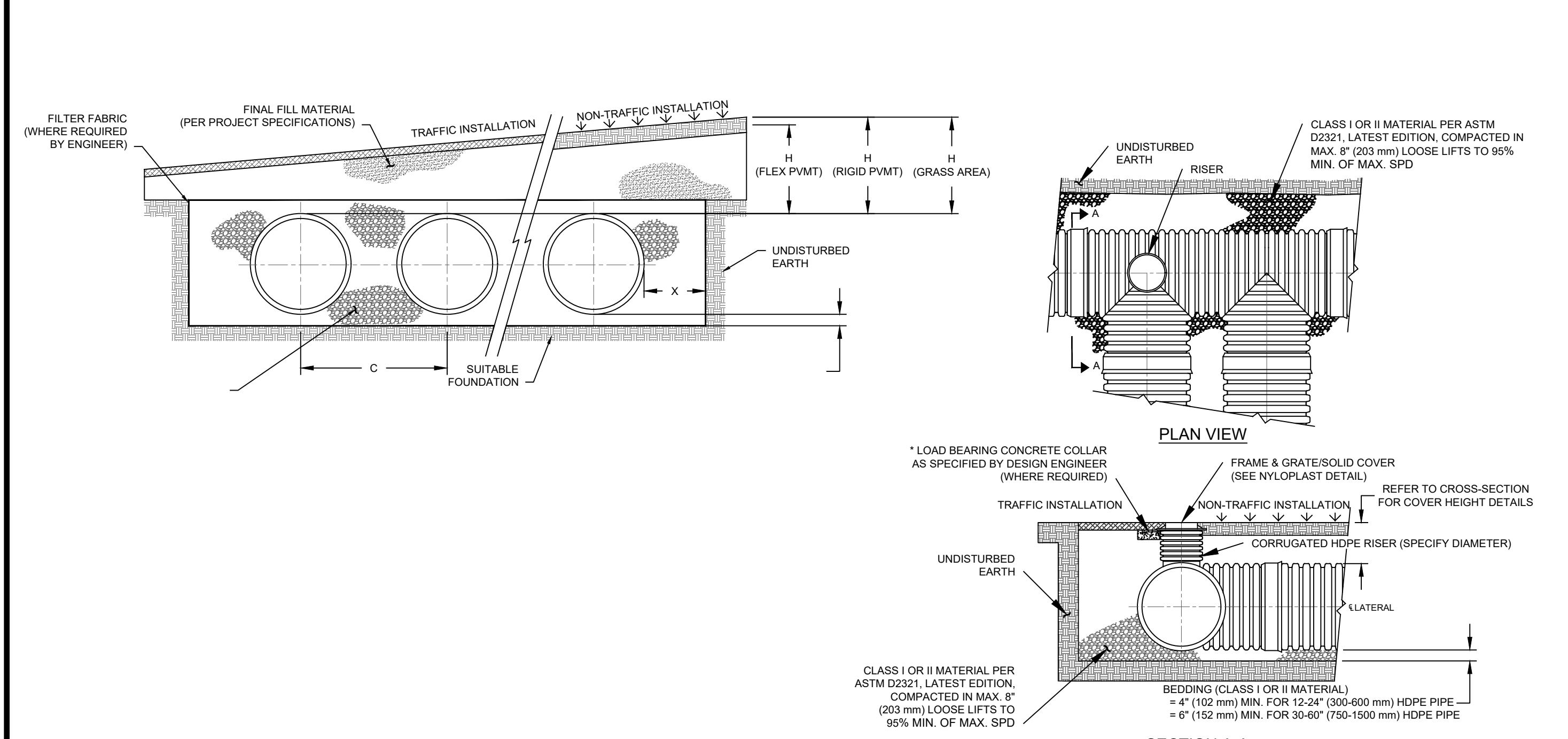
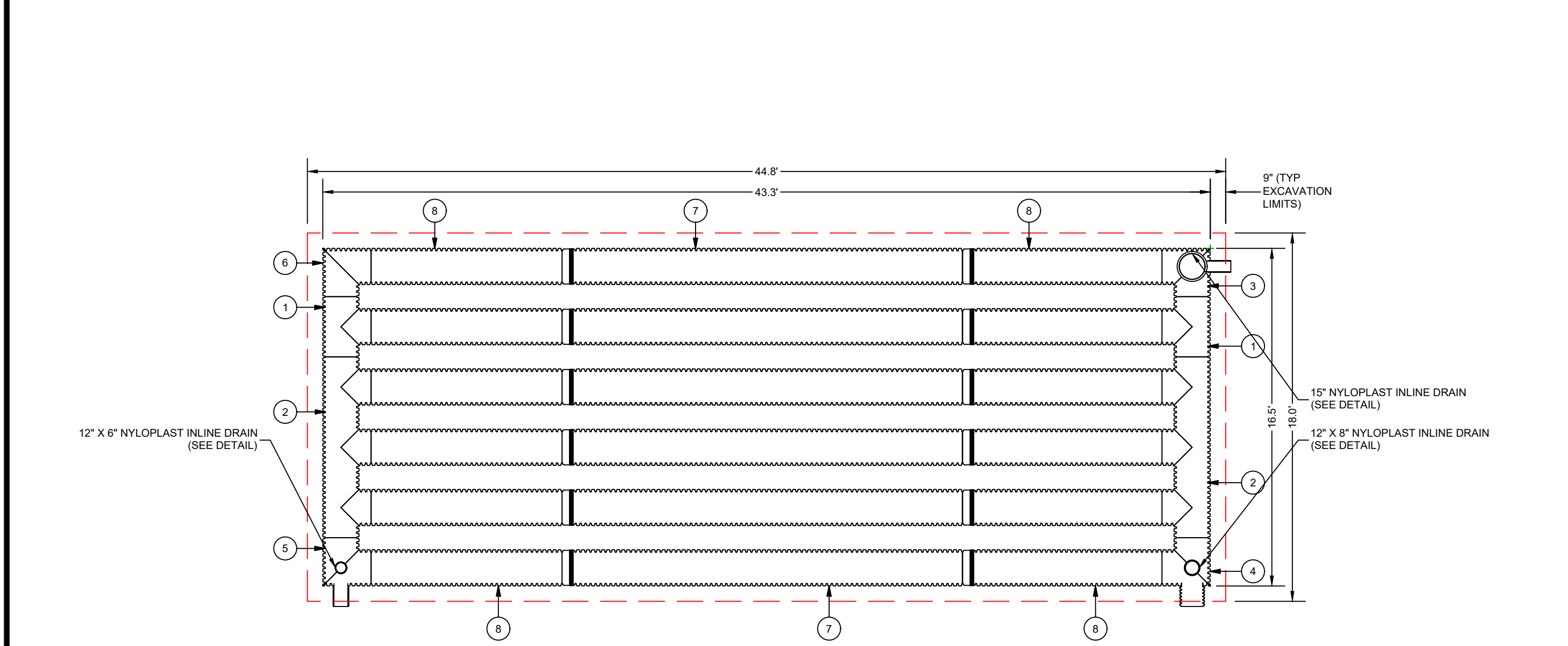
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ITEM	QTY	ALT.	PART #	DESCRIPTION	STAN	VENDOR	NOTE	ITEM	QTY	ALT.	PART #	DESCRIPTION	STAN	VENDOR	NOTE	
1	2		1851AN	18" TRIPLE MANFOLD TEE	STAN	ADS	SEE DETAIL	5-2	1		1898AN	18" FAB STUB	STAN	ADS	COMPONENT	
2	2		1853AN	18" TRIPLE MANFOLD TEE	STAN	ADS	SEE DETAIL	6	1		1898AN	18" MANIFOLD 90 DEG BEND	STAN	ADS	SEE DETAIL	
3	1		1898ANC-1	18" MANIFOLD 90 DEG BEND	COMP	ADS	SEE DETAIL	7	6 STICKS	118 LF	1898ANC-1	18" MANIFOLD 90 DEG BEND	STAN	ADS	AS SHOWN	
3-1	1		0668AN	18" FAB STUB	STAN	ADS	COMPONENT	8	6 STICKS	118 LF	1898ANC-1	18" MANIFOLD 90 DEG BEND	STAN	ADS	FIELD OUT	
3-2	1		1553AN	18" MANIFOLD INLET RISER	STAN	ADS	COMPONENT	9	18		1898ANC-1	18" MANIFOLD 90 DEG BEND	STAN	ADS	NOT SHOWN	
4	1		1898ANC-2	18" MANIFOLD 90 DEG BEND	COMP	ADS	SEE DETAIL	10	1 ROLL	269 SY	0601TG	601 18" X 300' (500 SY) (NTP/EP SCAN)	STAN	ADS	SEE DETAIL	
4-1	1		0623AN	18" MANIFOLD INLET RISER	STAN	ADS	COMPONENT	11	1		2712AGBN	12" INLINE DRAIN 12x8 ADS	STAN	ADS	SEE DETAIL	
4-2	1		1208AN	12" FAB STUB	STAN	ADS	COMPONENT	12	1		2712AGBN	12" INLINE DRAIN 12x8 ADS	STAN	ADS	SEE DETAIL	
5	1		1898ANC-3	18" MANIFOLD 90 DEG BEND	COMP	ADS	SEE DETAIL	14	2099 CF	78 CY	2712AGBN	12" INLINE DRAIN 12x8 ADS	STAN	ADS	SEE DETAIL	
5-1	1		0603AN	18" MANIFOLD INLET RISER	STAN	ADS	COMPONENT	15			2712AGBN	12" INLINE DRAIN 12x8 ADS	STAN	ADS	SEE DETAIL	
											NA	EXCAVATION			NA	NOT SHOWN

**NOTES**

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



- \* MAXIMUM FILL HEIGHTS OVER MANIFOLD FITTINGS. CONTACT MANUFACTURER'S REPRESENTATIVE FOR INSTALLATION CONSIDERATIONS WHEN COVER EXCEEDS 8 FT (2.4 m).
- NOTES**
- ALL REFERENCES TO CLASS I OR II MATERIAL ARE PER ASTM D2321 "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST EDITION.
  - ALL RETENTION AND DETENTION SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, LATEST EDITION AND THE MANUFACTURER'S PUBLISHED INSTALLATION GUIDELINES.
  - MEASURES SHOULD BE TAKEN TO PREVENT THE MIGRATION OF NATIVE FINES INTO THE BACKFILL MATERIAL, WHEN REQUIRED. SEE ASTM D2321.
  - FILTER FABRIC: A GEOTEXTILE FABRIC MAY BE USED AS SPECIFIED BY THE ENGINEER TO PREVENT THE MIGRATION OF FINES FROM THE NATIVE SOIL INTO THE SELECT BACKFILL MATERIAL.
  - EQUATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
  - BEDDING: SUITABLE MATERIAL SHALL BE CLASS I OR II, THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER, UNLESS OTHERWISE NOTED BY THE ENGINEER. MINIMUM BEDDING THICKNESS SHALL BE 4" (102 mm) FOR 4"-24" (102-609 mm) Ø; (152 mm) FOR 30-60" (762-1524 mm) Ø.
  - INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I OR II IN THE PIPE ZONE EXTENDING NOT LESS THAN 6" (152 mm) ABOVE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
  - COVER: MINIMUM COVER OVER ALL RETENTION/DETENTION SYSTEMS IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" (305 mm) FROM TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER IS 12" (305 mm) UP TO 36" (900 mm) DIAMETER PIPE AND 24" (610 mm) OF COVER FOR 42-60" (1067-1524 mm) DIAMETER PIPE. MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT. MAXIMUM FILL HEIGHT LIMITED TO 8 FT (2.4 m) OVER FITTINGS FOR STANDARD INSTALLATIONS. CONTACT A SALES REPRESENTATIVE WHEN MAXIMUM FILL HEIGHTS EXCEED 8 FT (2.4 m) FOR INSTALLATION CONSIDERATIONS.

**ADS RETENTION/DETENTION PIPE SYSTEM SPECIFICATION**

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

**PIPE REQUIREMENTS**  
ADS RETENTION/DETENTION SYSTEMS MAY UTILIZE ANY OF THE VARIOUS PIPE PRODUCTS BELOW:

- N-12" STB PIPE (PER AASHTO) SHALL MEET AASHTO M 294, TYPE S OR ASTM F2306
- N-12" STB PIPE (PER ASTM F2948) SHALL MEET ASTM F2948
- N-12" MEGA GREEN™ STB PIPE SHALL MEET ASTM F2948

ALL PRODUCTS SHALL HAVE A SMOOTH INTERIOR AND ANNULAR EXTERIOR CORRUGATIONS. ALL STB PIPE PRODUCTS ARE AVAILABLE AS PERFORATED OR NON-PERFORATED. WTB PIPE PRODUCTS ARE ONLY AVAILABLE AS NON-PERFORATED. PRODUCT-SPECIFIC PIPE SPECIFICATIONS ARE AVAILABLE IN THE DRAINAGE HANDBOOK SECTION 1 "SPECIFICATIONS".

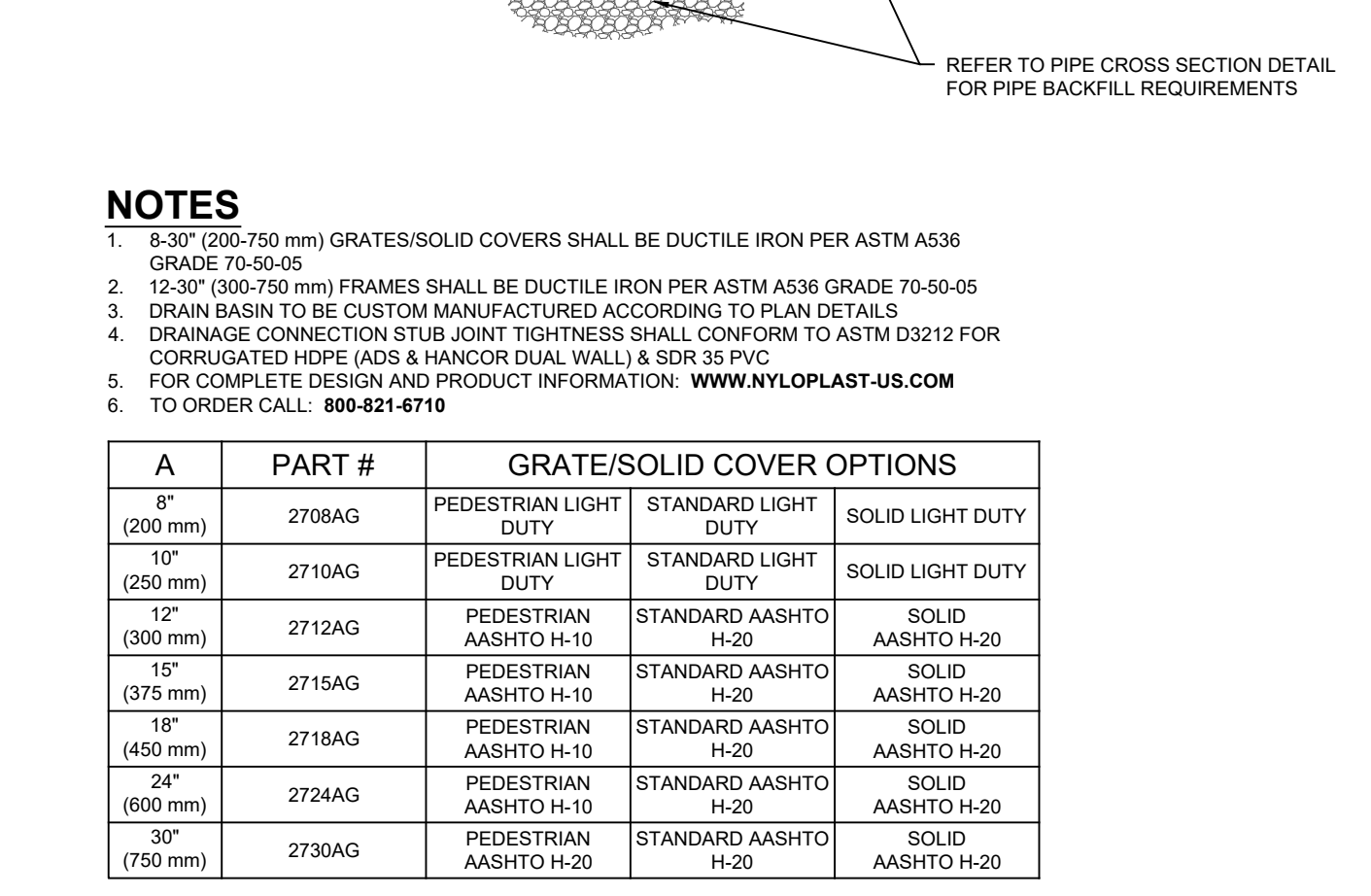
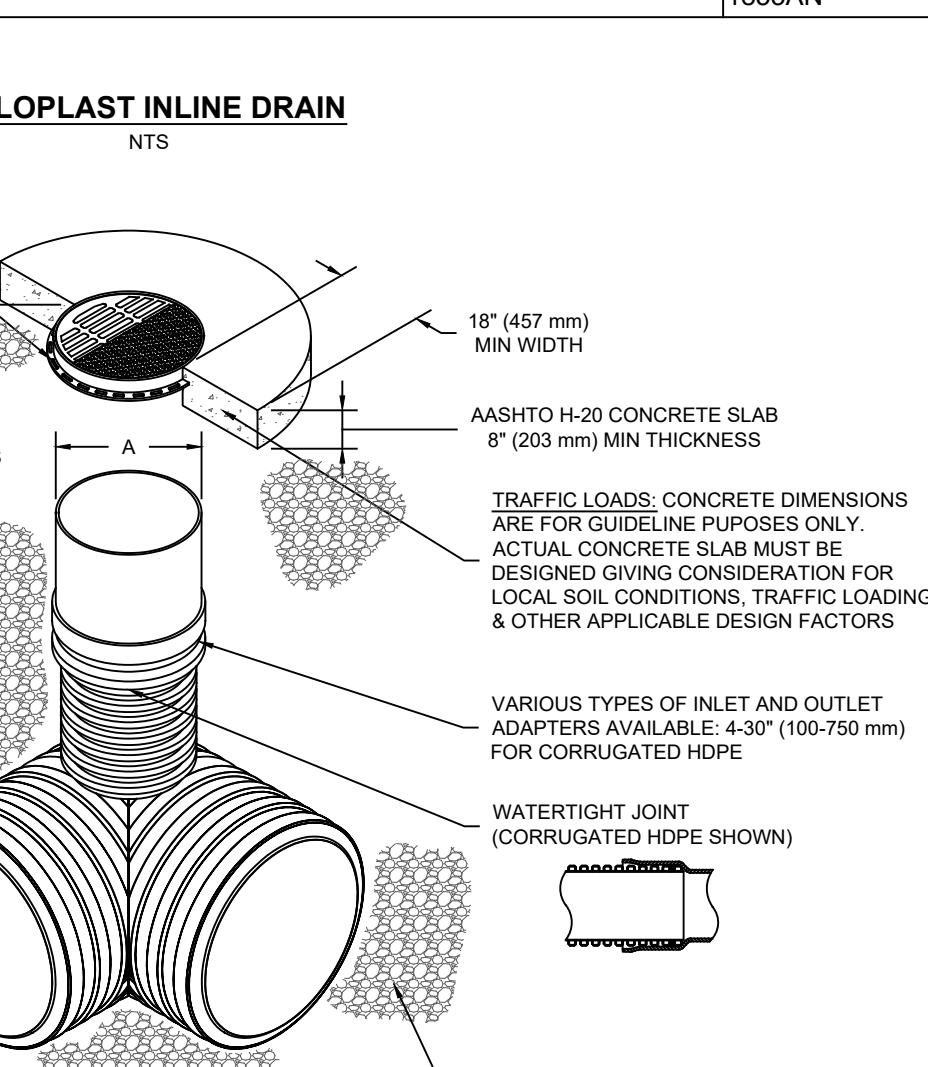
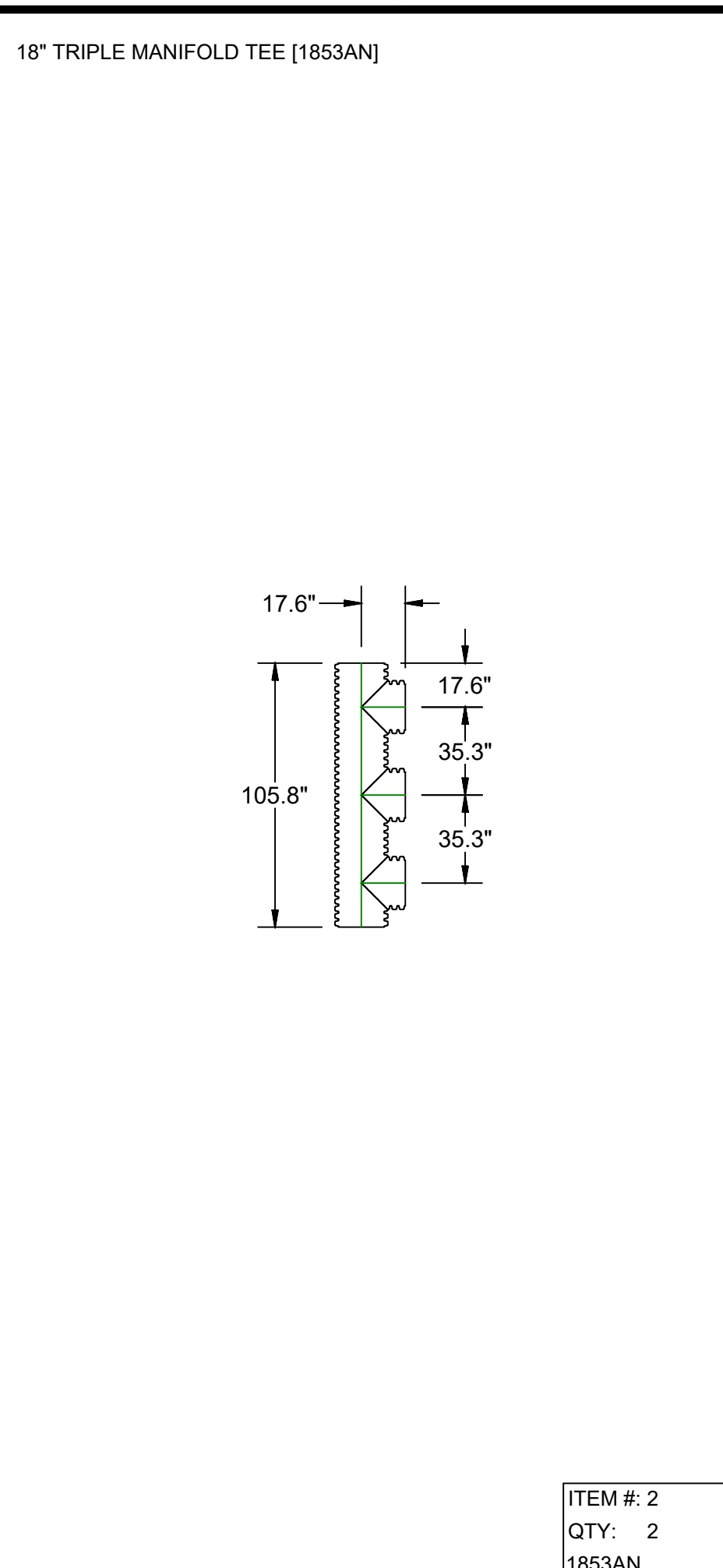
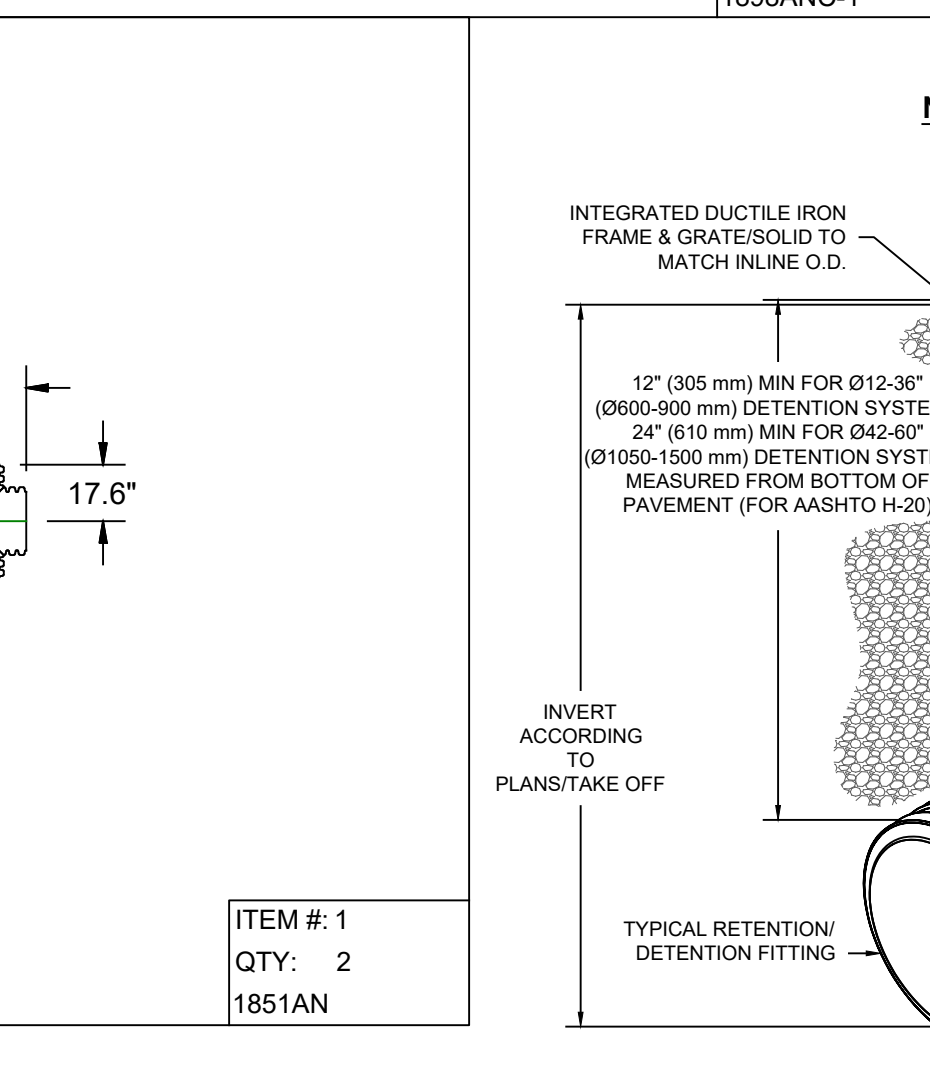
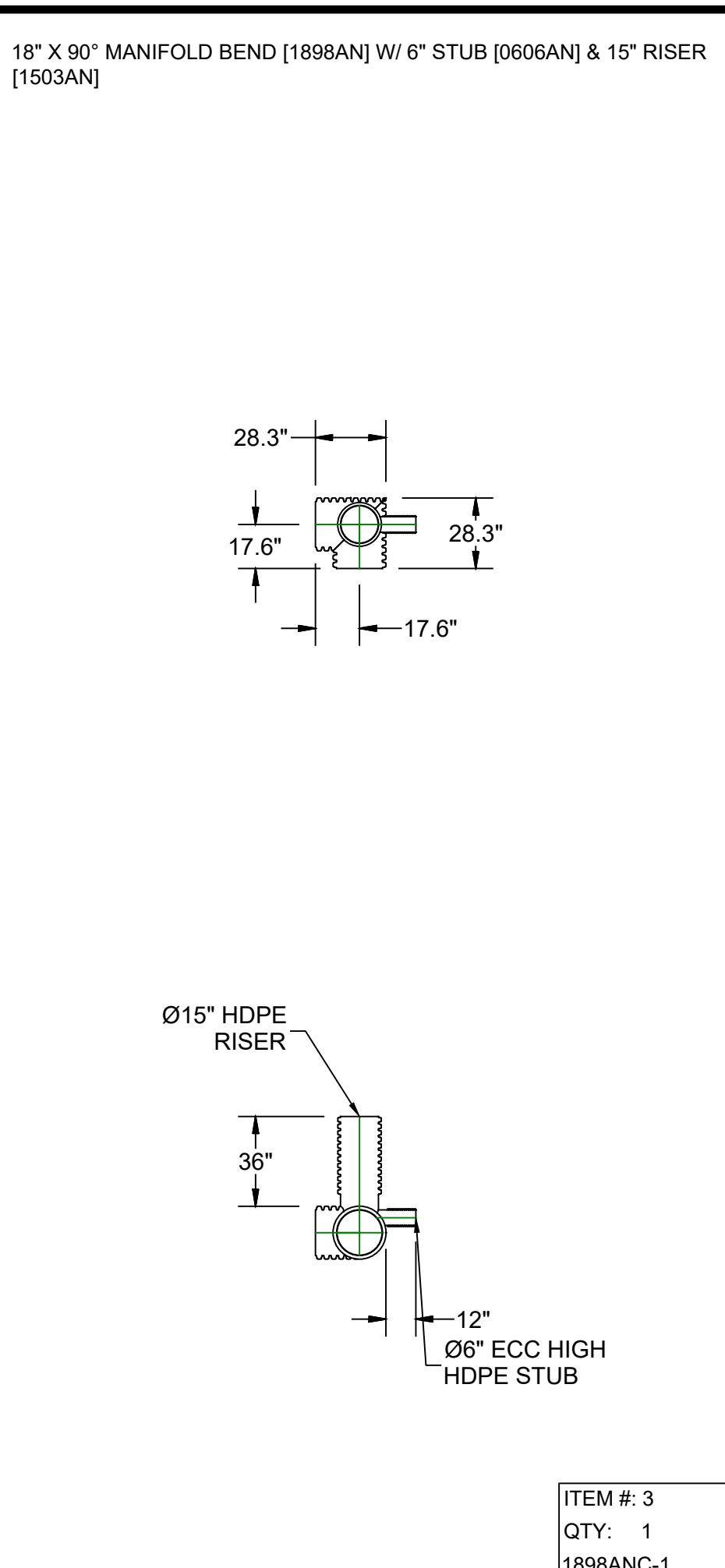
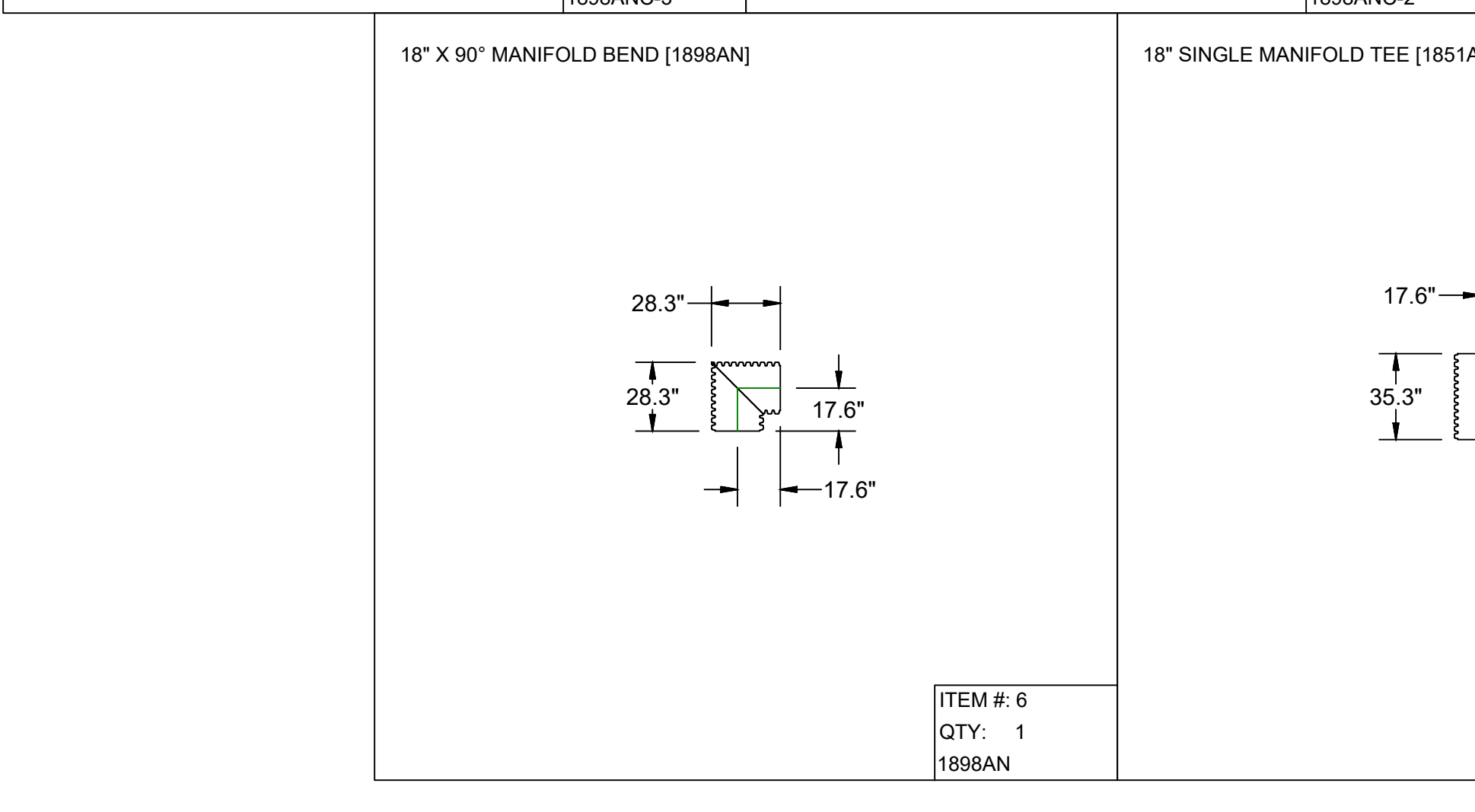
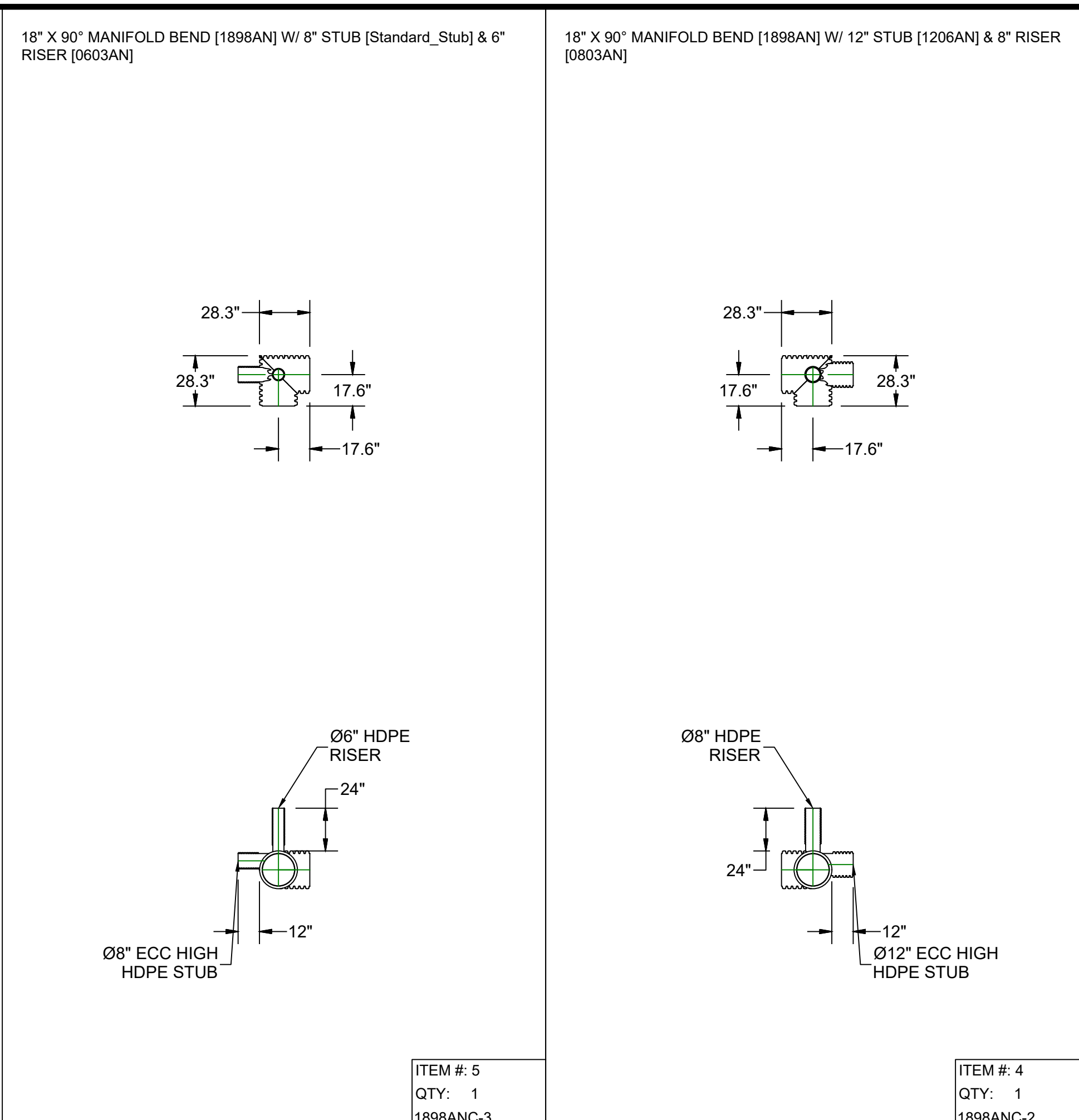
**JOINT PERFORMANCE**  
PLAIN END / SOIL-TIGHT (STB)  
STB PIPE SHALL BE JOINED USING A BELL AND SPIGOT JOINT. THE BELL AND SPIGOT JOINT SHALL MEET THE SOIL-TIGHT REQUIREMENTS OF ASTM F2306 AND GASKETS SHALL MEET THE REQUIREMENTS OF ASTM F477.

PLAIN END PIPE AND FITTINGS CONNECTIONS SHALL BE JOINED WITH COUPLING BANDS COVERING AT LEAST TWO FULL CORRUGATIONS ON EACH END OF THE PIPE. GASKETED SOIL-TIGHT COUPLING BAND CONNECTIONS SHALL INCORPORATE A CLOSED-CELL, SYNTHETIC EXPANDED RUBBER GASKET MEETING THE REQUIREMENTS OF ASTM D1058 GRADE 2A2. GASKETS, WHEN APPLICABLE, SHALL BE INSTALLED BY THE PIPE MANUFACTURER.

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

**INSTALLATION**  
INSTALLATION SHALL BE IN ACCORDANCE WITH ASTM D2321 AND ADS RECOMMENDED INSTALLATION GUIDELINES. WITH THE EXCEPTION THAT MINIMUM COVER IN NON-TRAFFIC AREAS FOR 12-36 INCH (305-914 mm) DIAMETERS SHALL BE 1 FT (0.3 m). MINIMUM COVER IN TRAFFIC AREAS FOR 12-36 INCH (305-914 mm) DIAMETERS SHALL BE 1 FT (0.3 m) AND FOR 42-60 INCH (1067-1524 mm) DIAMETERS, THE MINIMUM COVER SHALL BE 2 FT (0.6 m). BACKFILL SHALL CONSIST OF CLASS I (COMPACTED) OR CLASS II (MINIMUM 60% DENSITY) MATERIAL, WITH THE EXCEPTION THAT 60 INCH (1524 mm) SYSTEMS SHALL USE CLASS I MATERIAL ONLY. MINIMUM COVER HEIGHTS DO NOT ACCOUNT FOR PIPE BUOYANCY. REFER TO ADS TECHNICAL NOTE 5.05 "PIPE FLOATION FOR BUOYANCY DESIGN CONSIDERATIONS: MAXIMUM COVER OVER SYSTEM USING STANDARD BACKFILL IS 8 FT (2.4 m). CONTACT A REPRESENTATIVE WHEN MAXIMUM FILL HEIGHT MAY BE EXCEEDED. ADDITIONAL INSTALLATION REQUIREMENTS ARE PROVIDED IN THE DRAINAGE HANDBOOK SECTION 6 "RETENTION/DETENTION".

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



- NOTES**
- 8-30" (203-762 mm) GRATES/SOLID COVERS SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
  - 12-30" (305-762 mm) FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
  - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS
  - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D312 FOR CORRUGATED HDPE ADS & HANGOR DUAL WALL & SDR 35 PVC
  - FOR COMPLETE DESIGN AND PRODUCT INFORMATION: WWW.NYLOPLAST-US.COM
  - TO ORDER CALL: 800-421-4710

A	PART #	GRATE/SOLID COVER OPTIONS
8"	2708AG	PEDESTRIAN LIGHT DUTY STANDARD LIGHT DUTY SOLID LIGHT DUTY
10"	2710AG	PEDESTRIAN LIGHT DUTY STANDARD LIGHT DUTY SOLID LIGHT DUTY
12"	2712AG	PEDESTRIAN AASHTO H-20 STANDARD AASHTO H-20 SOLID AASHTO H-20
15"	2715AG	PEDESTRIAN AASHTO H-10 STANDARD AASHTO H-20 SOLID AASHTO H-20
18"	2718AG	PEDESTRIAN AASHTO H-10 STANDARD AASHTO H-20 SOLID AASHTO H-20
24"	2724AG	PEDESTRIAN AASHTO H-10 STANDARD AASHTO H-20 SOLID AASHTO H-20
30"	2730AG	PEDESTRIAN AASHTO H-20 STANDARD AASHTO H-20 SOLID AASHTO H-20

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

THE UNDERSIGNED HEREBY APPROVES THE ATTACHED PAGES.

CUSTOMER \_\_\_\_\_ DATE \_\_\_\_\_

PROJECT # 2119

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

Engineer: Joseph J. P. E., License No. 16481

Scale: NTS  
Drawn by: TK  
Date: 7/29/21

**DETENTION DETAILS**

**HOME & HEARTH**  
SITING PLAN PREPARED FOR  
1750 EAST MAIN STREET  
Town of Yorktown  
Westchester County, New York



**Planting Details**

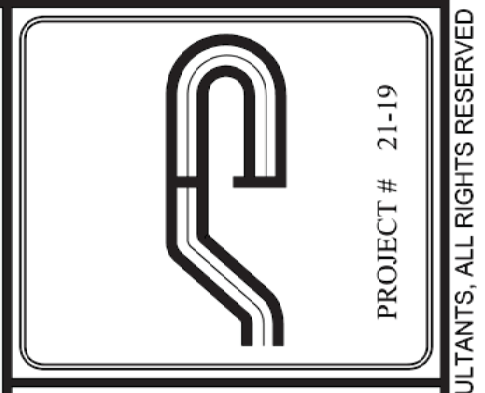
Plant choices for the wetland expansion were made according to existing site conditions and locally common species. All planting will proceed by hand. Materials will be brought to the site in good condition (see below) and then placed in central drop locations. The materials will then be hand-carried to their planting locations and in turn, planted by hand. Only rounded, shallow planting shovels will be used in this effort.

Criteria for selecting plant material will include (1) the plant's ability to withstand the expected light and saturation conditions; (2) its demonstrated survival on this site and other nearby sites; (3) the plant must be native and non-invasive; and (4) whether the plant material is available at nurseries in the same region as the site. See Table 1 for complete plant species list. Seed mix was chosen based on the species' ability to survive in moist areas adjacent to the road with some sun.

Planting will be done in spring or early summer (between April 1 and July 1). Shrubs may also be planted in the late summer to early fall (September 1 to October 30). In all cases, a hole will be dug twice as deep as the root ball. The only shovels allowed are rounded, shallow spades. The hole will then be backfilled with a thin layer (two to four inches) of rich, organic topsoil, the plant placed inside, the hole backfilled to the top and then gently tamped down. Container-grown plant material delivered to the job site will be inspected to assure moist soil/root masses. Any dry and light weight plants will not be accepted. If not planted immediately the container will be stored out of the sun and wind and kept moist (i.e., a means of watering will be provided and watering will occur daily).

When removed from the containers, the plants will be the size of the specified container. If in leaf, the plants will appear healthy with no spots, leaf damage, discoloration, insects or fungus. If not in leaf, the buds will be firm and free of damage, discoloration, insects or fungus. Containers will be a minimum of quart size for shrubs and gallon size for trees. Plants not having an abundance of well developed terminal buds on the leaders and branches will be rejected. The stems and branches of all plants will be turgid and the cambium healthy or the plants rejected. Seeding within wetland areas should not be completed when there is more than two inches of standing water, or in areas that are likely to be flooded. Seeds should be broadcast by hand or knapsack seeder using the proper seeding rate (3.5 pounds per acre), and carefully proportioning seed for the entire area. Cover with a light layer of straw mulch following seeding.

Plant Species Choices for Wetland Buffer Enhancement/Restoration				
Map Symbol	Quantity*	Scientific Name	Common Name	Size
<b>Trees</b>				
Aru	4	Acer rubrum	Red Maple	5' - 6'
Ns	3	Nyssa sylvatica	Black tupelo	5' - 6'
TP	6	Thuja plicata 'Green Giant'	Western red cedar	6' - 7'
<b>Shrubs</b>				
CSe	23	Cornus sericea	Redosier dogwood	3' - 4'
AC	3	Amelanchier canadensis	Shadblow	4' - 5'
IV	19	Ilex verticillata	Winterberry holly	3' - 4'
SD	14	Salix discolor	Pussy willow	4' - 5'
VD	14	Viburnum dentatum	Arrowwood	4' - 5'
<b>Herbaceous Plants</b>				
CS	50	Carex stricta	Tussock sedge	2" plug
CC	50	Carex crinita	Fringed sedge	2" plug
JE	50	Juncus effusus	Soft rush	2" plug
<b>Seed Mix</b>				
SWM	8 pounds	Riparian Buffer Mix ERNMX-154	Or equivalent	



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 251-F Underhill Avenue, Yorktown Heights, NY 10598  
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 www.sitedesignconsultants.com

Engineer:  
 Joseph C. Rima, P.E.  
 NYS Lic. No. 6451

Revisions:		Comments:	
No.	Date		

SCALE: 1" = 20'  
 DRAWN BY: CS  
 DATE: 7/22/2021

**Wetland Buffer Enhancement Plan**

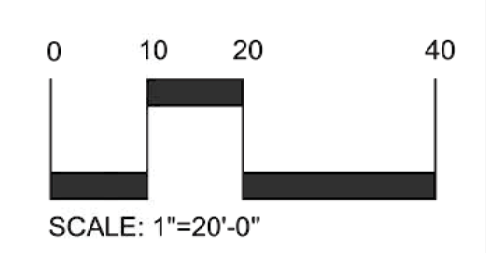
SITE PLAN PREPARED FOR  
**HOME & HEARTH**  
 1750 East Main Street  
 Westchester County, NY

NOTE:  
 1 THIS IS NOT A SURVEY. ALL SURVEY INFORMATION SHOWN ON THIS PLAN HAS BEEN TAKEN FROM SURVEY MAP PREPARED BY H. STANLEY JOHNSON AND COMPANY LAND SURVEYORS, P.C., DATED MARCH 24, 2004, LAST REVISED AUGUST 3, 2004. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

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Buffer Mitigation Plan prepared by  
 Steve Marino, PWS  
 Tim Miller Associates, Inc.  
 10 North Street, Cold Spring NY 10516  
 845 265 4400



# **STORMWATER MANAGEMENT PLAN**

Prepared for

**Home & Hearth  
1750 Main Street  
Mohegan Lake, Town of Yorktown, NY**

Prepared by:

**Site Design Consultants  
251F Underhill Avenue  
Yorktown Heights, New York 10598  
914-962-4488**

**Joseph C. Riina, P.E.  
NYS Lic. No. 64431  
CPESC No. 2670  
CPSWQ No. 0073**

October 2021



**STORMWATER MANAGEMENT PLAN**

**Prepared for**

**Home & Hearth**

**1750 Main Street**

**Mohegan Lake, Town of Yorktown, NY**

**Property Owner:** Edward Enea  
1750 East Main Street  
Mohegan Lake, Town of Yorktown  
917-662-5559; [homehearth@optonline.net](mailto:homehearth@optonline.net)

**Site Engineer:** Joseph C. Riina, P.E.  
NYS Lic. No. 64431  
CPESC No. 2670  
CPSQW No. 0073  
  
Site Design Consultants  
251-F Underhill Avenue  
Yorktown Heights, NY 10598  
914-962-4488



**October 2021**

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## Appendices

### Appendix A List of Required Approvals and Applications

- Town of Yorktown Site Plan Approval - approval pending
- Town of Yorktown Building Permit - approval pending;
- New York State Department of Environmental Conservation General Permit GP-0-20-001 "Notice of Intent;"
- New York State Department of Environmental Conservation SWPPP MS4 Acceptance Form;
- New York State Department of Environmental Conservation "Notice of Termination;"

### Appendix B Regulatory Ordinances

- NYS DEC Permit No. GP-0-20-001
- Local Ordinance - Town of Yorktown Chapter 248 of the Town Code

### Appendix C Owner / Operator Certification Contractor Certification

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## **1.0 Project Description**

The subject property is located off of Main Street in the Mohegan Lake section of the town of Yorktown, Westchester County, New York (see Figure 1.1 - Location Map and Figure 1-2 - Vicinity Map). The parcel totals 1.93 acres and zoned C-4, Residential requiring a minimum lot size of 20,000 SF. There is an existing structure on the site serviced by a common driveway. A majority of the site is wetland with commercial building and parking lot occupying the frontage along main street. The wetland is the rear 2/3 of the site that is undeveloped and backs up to residential properties at the rear. The site slopes gently back towards the wetland to a low area. The site has other improvements such as walls, patios, and parking areas, some of which will remain.

It is proposed to demolish the existing building and construct two new building along main street. This will require the construction of a new project access point and driveways. Additional parking will also be required to service the proposed building. In addition, the proposed driveway and parking areas will encroach on the existing wetland buffer on the site. Mitigation shall be provided by establishing new native plantings. The proposed building will be serviced by public utilities. Stormwater will be managed by treatment of the water quality volume and detention of the flood storage volumes. The total disturbance expected for the project is 0.59 acres.

As required by the NYSDEC SPDES General Permit for Stormwater Discharges from Construction Activity, GP-0-20-001, Part IIIA.8, an historic resource screening determination was conducted. This was done using the online tools at the NYS Office of Parks, Recreation and Historic Places (OPRHP) website. This screening determined that there are no areas with historic or archeological sensitivity near the site. Figure 1.3 - NYS OPRHP Historic Resource Map was created from the website showing sensitive areas in Yorktown.

The following Report and Plans included in Appendix M describe, in detail, the design and implementation of the Stormwater Management Plan.

## **2.0 Stormwater Regulatory Requirements**

### **2.1 Stormwater Impacts**

Urban stormwater impacts relate to significant changes to stormwater quantity and quality as a result of land development. "Urban Development has a profound influence on the quality of New York's waters."<sup>1</sup> This proposed development will change the runoff characteristics of this site altering the quantity and quality of the surface stormwater. The impacts of this must be mitigated by managing the stormwater prior to discharge. This would be accomplished by the capture and treatment of surface runoff prior to discharge.

Development of a site alters the hydrology therefore changing the characteristics of the surface and groundwater discharge of runoff. Changing the surface conditions alters a site's natural ability to store, treat, or infiltrate runoff. The change also allows for the discharge of potentially damaging pollutants and sediments to adjoining water bodies. This can occur during the construction phase, and long-term after

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<sup>1</sup> New York State Stormwater Management Design Manual, Januray 2015, Page 2-1.

development. During the construction phase, graded, destabilized, areas are subject to erosion which can cause the displacement of sediment. After development, changes in the surface conditions, such as impervious surfaces, roofs and pavement, or lawn surfaces can generate pollutants which would be collected and discharged through runoff. Some of the pollutants of concern are: Total Suspended Solids (TSS); Biological Oxygen Demand (BOD); Total Phosphorus (TP); and Total Nitrogen (TN), as well as oil or grease, and chloride.

The most common sources of these pollutants from developed sites are atmospheric deposition, fertilizers, pesticides, and leaked discharges from vehicle. These pollutants would collect on these impervious surfaces and quickly wash off during even the smallest storm event.

In the planning and design of the development, stormwater will be managed to minimize potential impacts. A Stormwater Management and Pollution Prevention Plan will be prepared. This Plan will deal with all aspects of the stormwater management programs such as identifying potential pollutant sources, design of temporary and permanent features, implementation, and maintenance.

## **2.2 Regulatory Obligation**

### **2.2.1 USEPA/NYSDEC**

The Federal Government's Clean Water Act (CWA), Section 402 states "Stormwater discharges from certain construction activities are unlawful unless they are authorized by a National Pollutant Discharge Elimination System ("NPDES") permit or by a state permit program." New York State is a NPDES delegated State. The necessary permitting is administered through the State Pollutant Discharge Elimination System (SPDES) under the General Permit, GP-0-20-001, for Stormwater Discharges from Construction Activity. The Permit requires that any development meeting the disturbance thresholds listed in Tables 1 and 2 of Appendix B of the General Permit must prepare a SWPPP. Activities listed in Table 1 requires preparation of only an Erosion and Sediment Control Plan. Those listed in Table 2 would additionally require post-construction stormwater management practices. This project requires an E&SC and a SWPPP.

The proposed disturbance for this project is less than one acre. As such, a minimum an Erosion and Sediment Control Plan must be prepared. The project is located in the Peekskill Hollow Brook Basin which is a sub-watershed of the Upper Hudson River Basin. This basin is not listed as a TMDL Watershed or discharging to an impaired water body. However, the proposed development has the potential for a significant contribution of pollutants to surface waters of the state. It is not located in an Enhanced Phosphorous Watershed (EPW). Therefore this project only requires the preparation of an E&SC Plan.

The Plan identifies the potential sources of pollution, and a design prepared and implemented to reduce pollutant loadings. This project will be required to prepare the following to be in compliance:

- Notice of Intent registered with the NYS DEC;
- MS4 SWPPP Acceptance Form signed by an authorized representative of the Municipality;



- Prepare an Erosion and Sediment Control Plan;
- Design and implement a stormwater quality treatment system to capture and treat the stormwater runoff volume generated by the 90% rainfall event.
- Design and implement a stormwater management system to capture and attenuate all storm events up to the 100-year storm.

### **2.2.2 Local Municipality**

In addition, this project requires approval under Chapter 248, Stormwater Management and Erosion and Sediment Control, of the Town of Yorktown Code. The Code requires compliance for projects with a land disturbance activity of 5,000 s.f. or more. The Code requires compliance with the NYS DEC GP-0-20-001

### **2.2.3 NYC DEP**

This site is not located within the limits of the New York City Watershed. This project is not required, therefore, to comply with Chapter 18 of the “Rules and Regulations for the Protection from Contamination, Degradation, and Pollution of the New York City Water Supply and its Sources.”

The technical standards providing guidance in the preparation of the E&SC and SWPPP are the latest revisions of the following:

- “New York Standards & Specifications for Erosion and Sediment Control” (NYSSESC) published by the Empire State Chapter of the Soil and Water Conservation Society; and;
- “New York State Stormwater Management Design Manual” prepared by the Center of Watershed Protection, for the NYS DEC;
- Town of Yorktown - Town Code Chapter 248 Stormwater Management and Erosion and Sediment Control;

## **3.0 Reducing Pollutant Impacts**

### **3.1 Sources of Impact**

For this project, the potential for contamination of stormwater occurs both during construction and after the completion of development. The goal to achieve reduced impacts involves containment and treatment of the various pollutants.

Each phase will require temporary sediment and erosion control measures. The greatest source of pollutants during these phases is the potential of soil erosion. The nature of the construction plan is to have exposed soils which can erode and potentially discharge to sensitive areas. During construction, existing vegetation is removed exposing soils. Also, stockpiling of soils takes place. These conditions if not stabilized, are subject to erosion during rainfall events and wind conditions. Sediment discharged to a wetland can destroy vegetation and habitat affecting the function of the wetland. This degradation potential can be irreversible and eliminate its function in the ecosystem. Increases in turbidity to open water bodies such as streams, ponds, etc., are an additional environmental impact.

The implementation of proper erosion control measures and sediment containment along with a planned construction sequence can minimize or eliminate these potential impacts. The selection and implementation of erosion and sediment practices are described in a later section of this Report.

The post-development state of this project not only will yield a potential for sediment discharges or Total Suspended Solids (TSS), but also other pollutants which can impact the adjacent water bodies. The contaminants of highest concern are Total Phosphorus (TP), Total Nitrogen (TN), and Biochemical Oxygen Demand (BOD). Modification of the surface conditions of the site, specifically increasing the impervious nature of the ground cover, increases the concentration and potential discharge of these pollutants. The development of the site reduces native vegetative cover, and therefore affects the land's natural ability to store, treat or infiltrate runoff. This includes impervious surfaces, such as roads, buildings, and also landscaped areas, specifically lawns. These increases in imperviousness allow for greater concentrations or pollutants to collect and be carried off by runoff. Some of the pollutants are deposited by atmospheric conditions. However, other sources are applied or discharged to the surface of the site. The landscape areas are subject to fertilizers, weed control, and pesticide products. This too is a large potential for pollutants which if discharged untreated could have long term impacts. A full listing of the potential pollutants which can be considered in stormwater can be found in Table 2.1 of the New York State Stormwater Management Design Manual (NYS SMDM).

The concentrations are collected in stormwater runoff and rapidly discharge to the adjacent water bodies if not treated properly. The pollutants are collected and conveyed during the initial part of the storm event or the 90% rainfall. This is 90% of the average annual stormwater runoff volume. For this part of the State it is equivalent to approximately 1.4 inches. This is also commonly referred to as the "first flush." The requirement of the NYSDEC SPDES General Permit GP-0-20-001 requires that this volume of runoff is to be collected and treated by the means described in the NYS SMDM. The method to be used is the unified stormwater sizing criteria in which a water quality volume is determined and a practice is selected which best fits the criteria provided. This is described further in Section 6.0.

### **3.2 Stormwater Management During Construction**

The Erosion and Sediment Control plan will be implemented during all phases of construction until the completion of the project. This will minimize or eliminate the potential short-term adverse impacts which may occur during construction. After completion, the erosion and sediment control will become a maintenance plan to insure that permanent erosion and sediment controls continue to function and prevent the transport of sediments.

The Erosion and Sediment Control plan includes the Sequence of Construction and designed measures to be installed, operated and maintained during all aspects of construction. The appropriate measures were selected and detailed in plan for implementation by the site contractor. The main objective of the plan is to prevent erosion from occurring by stabilization of the construction site where possible. Sediment controls are to be used as a containment system to allow the removal of sediment from runoff to the greatest extent possible before leaving the work site. Control methods and standards utilized are provided in the NYSSESC.

Potential sources of destabilization of the site have been determined so that proper measures will be used. The locations and methods designed for erosion and

sediment control measures change as the construction sequence progresses. The priority is to stabilize disturbed areas subject to erosion and use containment and / or filtering practices where sediment may concentrate. Some of the practices and methods that will be used for this project are:

- Minimization of open disturbance by use of stabilizers such as seed, mulch, and erosion blankets, stone, etc. Areas not subject to construction traffic for extended periods will be temporarily stabilized.
- The work areas will be contained. Down grade perimeters will be lined with barriers such as silt fence, diversions, berms, etc.
- Where possible, clean stormwater will be diverted away or around the work site to reduce the amount of runoff requiring treatment.
- Sediment traps will be constructed where heavy concentrations of runoff may accumulate.
- Dust control measures will be maintained on-site such as water trucks.
- Runoff will be prevented from gaining erosive velocities on long slopes. This can be achieved with seed and mulch, erosion control blankets, curb dams and multiple rows of silt fence.
- Existing drainage structures will be protected from sediment-laden runoff.
- Regular weekly inspections and reports (see Appendix K for report form) to be filed with the Operator and Town.

Additional methods of practices may be employed dependent on the situation. The NYSSESC consists of NYS DEC accepted and recommended practices. The design requirements of temporary and permanent erosion and sediment control practices of this Manual have been followed.

Prior to completion of the project, all permanent structural features will be cleaned, restored, and re-vegetated as necessary. The erosion and sediment control phase of the project is complete when all work is done and all areas are stabilized. The post-construction Stormwater Management Inspection and Maintenance Agreement (Schedule "B" in Appendix L) will describe the long term inspection schedule, periodic maintenance requirements, and the responsible party.

### **3.3 Stormwater Management Post-Construction**

The post-construction design of the project must be included in the Stormwater Pollution Prevention and Stormwater Management Plans to minimize or eliminate potential long-term adverse impacts which might be caused by surface runoff from the site. This will deal with the management of the stormwater upon completion and operation of the site. The plan will be an analysis of all potential impacts due to stormwater and the means of protecting adjoining water bodies.

The management plan begins with conceptual designs of the collection and conveyance system and the proposed treatment practices. The treatment practices are subject to different parameters and must be designed to best fit the site including green infrastructure planning. Some of the limitations that may be encountered include soil types and properties, depth to groundwater or bedrock, distance to structures, and maintenance. A list of acceptable practices can be found in Chapters 3, 5, and 10 of the NYS Stormwater Design Manual (SMDM). Chapter 3 states "The Practices on this list are selected based on the following criteria:

1. Can capture and treat the full water quality volume (WQV)
2. Are capable of 80% TSS removal and 40% TP removal

3. Have acceptable longevity in the field
4. Have a pre-treatment mechanism.”

Green Infrastructure Practices include:

- I. Preservation of Natural Resources
- II. Reduction of Impervious Cover
- III. Runoff Reduction Techniques

The five broad groups of standard stormwater management practices are:

- I. Stormwater Ponds
- II. Stormwater Wetlands
- III. Infiltration Practices
- IV. Filtering Practices
- V. Open-channel Practices

These practices “are presumed to meet water quality requirements set forth in this manual if designed in accordance with the sizing criteria presented in Chapter 4 and constructed in accordance with the performance criteria in Chapter 6.”<sup>2</sup>

#### Green Infrastructure - Runoff Reduction

Chapter 3 of the NYS DEC introduces a planning process for site development which has “increased emphasis on a holistic approach” to urban stormwater runoff management. This is to be done by reducing pollutant-laden runoff by the use of green infrastructure which promotes replication of pre-development hydrology. This is done by designing selected practices which will allow for infiltration, ground water recharge, reuse, recycling and evaporation/evapotranspiration of surface runoff Water Quality Volumes from developed areas.

The implementation of this planning process is defined in a five step approach as follows:

1. Preservation of features and reduction of impervious surfaces.
2. Determination of the project’s Water Quality Volume.
3. Incorporating green infrastructure and standard stormwater management practices that provide a Runoff Reduction Volume Capacity.
4. Use of standard stormwater management practices to treat Water Quality Volume not addressed by green infrastructure.
5. Design of storage facility for volume and peak rate volumes.

This methodology is provided in more detail in Chapter 3 of the SMDM as well as the Flow Chart at the end of Chapter 3 (see Figure 3.1).

This process is required for new and redevelopment projects. Chapter 4 Section 4.3 requires the calculation of Runoff Reduction Volume (RRV) and that 100% of post-development Water Quality Volume should be treated on-site using green infrastructure or standard SMP’s. If this goal cannot be met, at a minimum, a specific reduction factor(s) based on the hydrologic soil group (HSG) can be applied but justification must be provided as to why the pre-construction condition cannot be met.

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<sup>2</sup> Pg. 3-7 NYS Stormwater Management Design Manual, January 2015.

## Redevelopment

This proposed development meets the Application Criteria for a redevelopment project as defined in Chapter 9 of the SMDM and site-specific constraints prevent the proper sizing and installation of any of the standard management practices listed above, therefore, alternative sizing and stormwater management controls may be used. Section 9.3.1 Application Criteria states that to make such determination, the following criteria must be met:

1. An already impervious area is reconstructed, and;
2. There is inadequate space for controlling stormwater runoff from the reconstructed area, or;
3. The physical constraints of the site do not allow meeting the required elements of the standards practices.

Acceptable alternative stormwater practices include:

- I. Rain Gardens
- II. Cisterns
- III. Green Roofs
- IV. Stormwater Planters
- V. Permeable Paving (including modular block)
- VI. Select proprietary Products (Hydrodynamic Practices, etc.)

After the preliminary selection of treatment practices, the water quality volume size will be determined.

The treatment methods could be a single practice or a combination of practices. The previously described controlling factors will initially eliminate some treatment methods. The remaining practices will be selected based on feasible locations, functionality, maintenance factors, and cost. An additional factor is to try and select practices which will not only provide an environmental benefit, but also aesthetic value.

## **4.0 Site Characteristics**

### **4.1 Soils**

On-site soils were classified by using the USDA Natural Resources Conservation Service (NRCS) Websoil survey for Westchester County, NY, see Figure 4.1 - Soil Map.

The predominant soil types for this project are Sutton Loam, Ridgebury loam, and Woodbridge loam. These soils are poor to well drained soils that are subject to seasonal groundwater. The Hydrologic classification of all three soils "D". The erosion hazard level for these soils are slight to moderate. These soil properties are essential in the design and proper construction management of the site. Independent soil tests were performed and the results are located in the Appendix E of this Report.

Deep Test Soil Logs and soil percolation test data are included in Appendix E of this Report. The locations of these deep soil tests are indicated on the Construction Drawings. On-site soil investigation and knowledge of the soil groups facilitated the selection of coefficient values used for the pre- and post-development pollutant load scenarios. Additionally, curve numbers were determined for use in the analysis.

## **4.2 Hydrology**

The proposed improvements will not significantly change the surface runoff patterns. Currently, the surface runoff pattern is in a northerly direction, toward the wetland. The surface runoff pattern is a combination of sheet flow, concentrated flow, and channel flow. The majority of the site is parking areas and driveway with slight slope. Runoff is collected in the storm sewer and directed to stormwater management practices before it is discharged to the wetland.

The majority of the existing and proposed building sites are within the 100-foot wetland buffer. Under the proposed condition the general direction of the surface runoff will not be altered. Almost the entire amount of surface runoff from the impervious areas will be collected and treated. The proposed improvements as shown will result in an increase in the imperviousness of the drainage area. Therefore, there will be an increase in the volume of runoff as well as the pollutant loads generated by the site for a given rainfall event. This will be mitigated with stormwater management practices. Additional mitigation will be provided through plantings to account for the disturbance of the wetland and wetland buffer.

In the planning, design and construction of the development, stormwater will be managed to minimize or eliminate potential off-site impacts. The proper implementation of temporary sediment and erosion control measures are used to achieve this goal. An Erosion and Sediment Control Plan has been established and will be implemented during all phases of construction until the completion of the project. The Erosion and Sediment Control Plan incorporates the sequence of construction and designed measures to be installed, operated and maintained during all aspects of each phase. The erosion and sediment controls are designed in accordance with the NYS Standards and Specifications for Erosion and Sediment Control.

## **5.0 Hydrologic Analysis**

The method used to compute project runoff was the Soil Conservation Service TR-55. The basis for the analysis was the Type III, 24-hour storm, for the 1 year, 2 year, 10 year, 25 year, and 100-year storm event. The rainfall depth for the respective storm events are 3.1, 3.5, 5.0, 6.0, and 7.5. The runoff coefficient "CN" and Time of Concentration for existing and post-development conditions were computed using Standard TR-55 criteria.

### **5.1 Pre-Development Condition**

As stated, the portion of the site to be developed with new homes is existing developed area. Therefore, the only change in surface conditions will be the proposed impervious surfaces of the new buildings and driveways. Therefore, the analysis for stormwater increases has been done for these individual impervious components. The contributing watersheds are shown on Figure 5.1 - Pre-Development Watershed Map.

The site and contributing watershed was analyzed as it flows to a design point within the wetland which is a low point partially contained within the project site, and an adjacent site. At this location ponding occurs and slowly dissipates within the wetland. Drainage area 1 is the project site itself. Runoff in this sheet flows to the rear and into the wetland.

The Drainage Basin sizes, curve numbers and travel times used in the analysis are summarized in the Table below:

**Pre-Development Conditions Watershed Analysis Variables**

<b>Drainage Basin</b>	<b>Area (acres)</b>	<b>Curve Number CN</b>	<b>Travel Time, Tc (hrs)</b>
DA-1	0.598	89	0.09

**5.2 Post-Development Condition**

A hydrologic analysis has been done for the redeveloped project site. The results of this analysis were used to calculate the stormwater filtration sizes required. The filtration units were sized to accommodate the 100-year storm event. The contributing watersheds are shown on Figure 5.2 - Post-Development Watershed Map.

The site and contributing watershed were broken into three areas in the post developed condition. All of these areas flow to a design point within the wetland which is a low point partially contained within the project site, and an adjacent site. Drainage area 1 is the area that flows directly into this area. The direction of flow remains unchanged. Drainage area 2 is another portion of the project site. It includes the majority of the proposed driveways and building. Runoff will be collected by the storm sewer and detained in 18" HDPE pipes before being discharged to a downstream defender unit for treatment. The downstream defender outlets to the design point. the existing pond for treatment and detention. Drainage areas 3 is one of the proposed buildings. Runoff will flow into proposed rain gardens through downspouts. The rain gardens will overflow into the existing wetland.

The hydrologic analysis assumes that full soil restoration as required in Chapter 5 (Table 5.3) of SMDM will be implemented. The areas of soil restoration will be shown on the E&SC Plan if required (See Figure 5.3).

The Drainage Basin sizes, curve numbers and travel times used in the analysis are summarized in the Table below:

**Post-Development Conditions Watershed Analysis Variables**

<b>Drainage Basin</b>	<b>Area (acres)</b>	<b>Curve Number CN</b>	<b>Travel Time, Tc (hrs)</b>
DA-1	0.048	79	0.083
DA-2	0.431	94	0.103
DA-3	0.139	98	0.083

**6.0 Unified Stormwater Sizing Criteria**

**6.1 Methodology**

To satisfy the requirements of the NYS DEC General Permit and the Town of Yorktown a combination of Green Infrastructure Techniques and standard practices have been selected. These practices meet attenuation as well as stormwater quality goals. The guidelines and practices used in selecting and the sizing analyses are

found in Chapters 4, 5, and 6 of the NYS DEC Stormwater Management Design Manual.

## 6.2 Water Quality Volume (WQv)

The Treatment volumes are determined as prescribed by the standard methods as outlined in the NYS DEC SMDM. This Water Quality Volume WQv requirement is normally based on the 90% rainfall event. This equates to 90% of the average rainfall for the specific region. The volumes to be treated have been calculated as shown in the following table.

### Water Quality Volume

Drainage Area	WQv based on 90% Rainfall Event	WQv Provided	RRv Provided	Total Volume Provided	Storm Year Treated
DA-2	747 cf	747 cf	0 cf	0 cf	90%
DA-3	246 cf	299 cf	199 cf	498 cf	90%

These volumes meet the requirements of the NYS DEC and Town of Yorktown for the limitation of phosphorous export. The required WQv and RRv have been reduced by the presence of redeveloped impervious areas. The calculations for this has been provided in Appendix H.

The water quality volume required to be captured and treated has been further defined as the runoff volume from the impervious surface that will result from the proposed project. The volume proposed to be captured will be that volume generated by the 90% rainfall event or greater. With the design provided, this entire volume will be captured and detained for an extended period of 24-hours for pollutants to settle out of the contained runoff. Excess stormwater above the water quality volume will be released at a controlled rate providing attenuation of larger storm events. The volumes to be treated have been calculated as shown in the following table.

## 6.3 Runoff Reduction (RRv)

Green infrastructure design as part of the planning process enables the reduction of runoff from a project. These practices in turn reduce the requirements of water quality treatment and flood protection. The selection of green infrastructure practices is developed using a five-step process detailed in Section 3 of the SMDM. A flow chart of this process is included as Figure 3.1 of this Report. Design of the practices can be found in Appendix H of this Report. The selection and justification of green practices can be found in Appendix G of this Report.

## 6.4 Stream Channel Protection Volume Requirements (CPv)

This requirement is for the protection of stream channels from receiving erosive velocities. This goal is accomplished by providing 24-hour extended detention of the one-year, 24-hour storm event that remains after runoff reduction is applied to the project. Trout waters may be exempted to only provide 12-hour detention. It is also not required if the discharge is to a pipe or hardened channel. The detention time is



measured by the center of mass method or plug flow calculation method. Further criteria for the application of the Cpv can be found in Section 4.4 of the SMDM.

### **6.5 Overbank Flood Control (Qp)**

The purpose of this sizing criteria for overbank flood control is to avoid an increase in the frequency and magnitude of out-of-bank flooding that may be the result of development. These are flow events where channel capacity is exceeded and spill over to flood plains. To meet the criteria the proposed stormwater management system for the project must attenuate the 10-year, 24-hour storm event to pre-development peak discharge rate. Detailed criteria can be found in Section 4.5 of the SMDM.

### **6.6 Extreme Flood Control Criteria (Qf)**

The purpose of the extreme flood analysis is to prevent flood damage from large storm events by maintaining predevelopment 100-year flood plain boundaries and protecting the integrity of stormwater management practices. The basis of the analysis is to maintain pre-development peak rates of runoff for the 100-year, 24-hour storm event with proper stormwater management. Detailed criteria can be found in Section 4.6 of the SMDM.

A summary of peak discharge rates at each design point for the pre and post-developed storm events analyzed for each drainage basin is summarized in the tables below:

#### **Design Point 1:**

<b>Storm Event (year)</b>	<b>Pre-Developed Peak Flow (cfs)</b>	<b>Post-Developed Peak Flow (cfs)</b>	<b>Net Change of Peak Flow (cfs)</b>	<b>Percent Reduction</b>
1	1.30	1.07	-0.23	17.7%
2	1.67	1.33	-0.34	20.4%
10	2.80	2.68	-0.12	4.3%
25	3.55	3.31	-0.24	6.8%
100	5.05	4.52	-0.53	10.5%

As can be seen by the results, peak discharge rates are decreased for all scenarios.

### **7.0 Stormwater Management Practices Selection, Justification and Design**

The stormwater management practices selection process detailed in Chapters 3 and 7 of the NYS Stormwater Management Design Manual was followed to help select the practices chosen. These Chapters provide a series of matrices which allows logical selection of treatment practices based on several factors. The factors are as follows:

1. Land Use - Commercial;
2. Physical Feasibility - location, slope, drainage area, groundwater table;
3. Watershed / Regional Factors - near Lake Mohegan;
4. Stormwater Management Capability - can meet all requirements;
5. Community and Environmental Factors - meets all requirements.

The matrices are provided in Appendix G of this Report. The matrices have been commented on or redacted to show elimination criteria through this stepped approach and eventual possible alternatives for treatment.

Thermal impacts are not a major concern on this project. Multiple landscape plantings are proposed around the project to shade the impervious surfaces. Additionally, proposed mitigation plantings are proposed to be put in around the detention pond to allow for further cooling. Further cooling would also take place when the stormwater passes through the subsurface stormwater management system prior to open discharge. Therefore, the stormwater collection and management will not contribute to the heating of stormwater where it will have a downstream thermal impact.

#### **Rain Garden NYSDEC SMDM:**

The selected stormwater treatment practice is a filtered system design to capture and treat small volumes of surface runoff. The filtering systems are practices found in the NYS Stormwater Management Design Manual. The benefit to these practices is that they work well for this application. This application is most commonly used for residential application. The rain garden system has a surface feature for containing the stormwater and has the appearance of a planted landscape bed. The organic filter media is a shallow sub-surface media through which the stormwater passes. The total detention time is designed for several days. After the treated runoff passes through the filter media it infiltrates into existing soil. The practice in this case is designed for flood storage.

The selection of the treatment practice was based on evaluating the site to determine what would best fit the conditions providing maximum benefits. The goal was to select practices which would meet treatment and attenuation standards and minimize the disturbance footprint. The selection of Stormwater Practices was based on the surface and subsurface conditions of the site. In addition, the site design concept is to create a natural and environmentally sensitive setting.

#### **In General:**

- Controls should be inspected periodically for the first few months after construction and on a semi-annual basis thereafter. They should also be inspected after major storm events (greater than 0.5 inches).
- All stormwater controls shall be inspected and cleaned of any debris or sediment.
- Any erosion shall be repaired and stabilized with seeding and mulch or stone.

Please note that additional notes regarding maintenance activities are contained on the project Construction Drawings and should be adhered to during and after construction.

The selection and justification of green practices can be found in Appendix G of this Report. The design of the practices can be found in Appendix H of this Report.

### **8.0 Erosion and Sediment Control**

Erosion and sediment control practices were selected and designed in accordance with the NYSSESC. The practices proposed for this project are described

below. Standard details and specifications are included in Appendix J as well as on the Construction Plans. Initial locations of each practice are shown on the Plans as construction progresses it may become necessary to repair, replace or relocate these practices as conditions warrant.

#### Stabilized Construction Entrance:

This has been specified for the entrance of the driveway. The installation will occur at the beginning of the project as described in the Suggested Construction Sequence. It will be maintained so as to prevent the tracking of sediment off-site.

#### Silt / Sediment Fence and Haybales:

Silt fence and haybales have been specified to control and contain sediment from leaving areas under disturbance to undisturbed areas. The fence shall be installed as best as possible following the contours and will be spaced in accordance with the NYSSESC. The fence will be inspected daily, repaired, and sediment removed as necessary.

#### Soil Stockpile:

Areas are provided for temporary stockpiling of delivered soil material for the construction. These areas will be contained with sediment fence to prevent the movement of sediment. The stockpiles, if not active for more than seven (7) days, will be seeded and mulched. The stockpile areas were placed to best suit the proposed construction activity. The stockpile will be installed as described in the Construction Sequence.

#### Temporary and Permanent Vegetative Cover:

This stabilization measure may be temporary and in other cases permanent vegetative cover is used. The vegetative cover specifications are based on the NYSSESC Manual. On the Construction Plans are notes, locations, and specifications as to the vegetative cover requirements. In the notes, there are specific situations and time constraints related to stabilization of disturbed areas. The specifications give seed and fertilizer mixes as well as placement. Any disturbed area expected to remain exposed for more than seven (7) days shall receive temporary vegetative cover.

#### Storm Drain Inlet Protection:

The inlet protection is specified to provide a permeable barrier around drainage inlets to reduce sediment content in runoff before entering the storm drain system.

#### Erosion Blankets:

Erosion blankets and seeding shall be used for the stabilization of slopes 3:1 or greater or as otherwise specified. The blankets shall be installed as per the Plans and Details, and the manufacturer's specifications. They shall be stapled or staked in place as per the manufacturer's specifications. The blankets may be installed at locations other than those shown on the Plans as directed by the Town Engineer, Project Engineer, or other persons inspecting the site under the direction of the aforementioned.

### Soil Restoration:

Soil restoration is a required practice for construction projects where soil compaction occurs to soils which will be permanently vegetated. This compaction is typically a result of heavy vehicle traffic, cutting or filling, and areas which may receive heavy surcharges. This becomes more pronounced in soils with greater fines content specifically when wet. These actions can change soil properties which affect its ability to drain or absorb surface water and will also affect the survivability of vegetation. In order to maintain the integrity of the stormwater management plan these areas must receive soil restoration. See Figure 8.1 taken from the NYSSMDM for requirements.

This project has soils which fall in the hydrologic soil group HSG "C." Therefore, for most instances, soil restorations are required for the development areas subject to permanent vegetation. Soil restoration can be done by tilling or aerating the soil to a depth of 12-inches. In heavy traffic areas, 3-inches of compost shall be placed over the compacted areas prior to the tilling. After the restoration, a 3/8" metal bar should be able to be hand pushed into the soil. Areas within the drip-line of trees should not be tilled.

### Other Controls:

#### Waste Disposal:

Solid, sanitary and toxic waste must be disposed of in a proper manner in accordance with applicable local, state and federal regulations. It is prohibited to burn, bury or pour out onto ground or into the storm sewers any solvents, paints, stains, gasoline, diesel fuel, used motor oil, hydraulic fluid, anti-freeze, cement curing compounds, or other toxic or hazardous wastes. The Contractor shall be responsible for disposal of all waste off site.

#### Concrete Truck Washout:

Wash out of cement trucks should occur in a designated diked area where the washings can be collected and disposed of properly when they harden.

#### Dust Control:

Generation of dust shall be minimized by limiting the extent of exposed soils and re-establishing vegetative cover in these areas as soon as possible. Additional and/or temporary methods to minimize dust may include wetting, mulching, spray adhesives, stone covering and wind barriers.

### Stabilization:

The Contractor shall initiate stabilization measures as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than seven (7) days after the construction activity in that portion of the site has temporarily or permanently ceased. This requirement does not apply in the following instance:

*Where the initiation of stabilization measures by the 7<sup>th</sup> day after construction activity temporarily or permanently ceased is precluded by snow cover or frozen*

*ground conditions, stabilization measures shall be initiated as soon as practicable.*

All areas not designated as buildings, roads, driveways, parking lots, walks, or aprons shall be established as lawn or vegetative areas. Permanent planting and vegetation shall be provided per approved the landscaping plan.

## **9.0 Construction Sequence**

A key objective of the SWPPP is to reduce erosion and sedimentation potentials for the project. As a means to accomplish this, a suggested construction sequence was developed to assist the developer with incorporating, into the project, various controls designed to reduce such potentials. The sequence considers the performance of development activities in a phased approach, in conjunction with the installation, construction and monitoring of erosion and sedimentation control devices prior to and during construction.

Appendix D contains the project specific Suggested Construction Sequence. Essentially, the sequence has been broken down into various activities designed to ensure that certain erosion/sedimentation controls are in place, prior to and during construction, in recognition of site development.

Prior to any construction activities, the Owner, Engineer and any Contactors to perform land-disturbing activities shall meet to review this SWPPP to insure a thorough understanding of its contents and overall intent. Certifications to this effect shall be signed by the Owner and Contractor. Certifications are provided on the Construction Plans and in Appendix C.

The Responsible Party during and after Construction is as follows:

Edward Enea  
Home and Hearth  
2090 East Main Street  
Cortlandt Manor, NY 10567  
914-734-9773

## **10.0 Inspection and Reporting**

Unless notified by the NYSDEC, the Owner or Operator shall have a qualified inspector conduct site inspections in accordance with the Permit requirements; for a site with on-going soil disturbance activities, a qualified inspector shall conduct a site inspection at least once every seven (7) calendar days. If a project has received prior written approval by the NYSDEC for the disturbance of greater than five (5) acres of soils at any one time, the inspection frequency shall be increased to a minimum of two (2) per seven (7) calendar day period separated by two (2) calendar days for as long as the five (5) acre threshold is exceeded. The qualified inspector, as defined in SPEDES General Permit guidelines, shall prepare an inspection report subsequent to each and every inspection. At a minimum, the inspection report shall include and/or address the following:

1. Date and time of inspection.
2. Name and title of person(s) performing inspection.

3. A description of the weather and soil conditions (e.g. dry, wet, saturated) at the time of inspection.
4. A description of the condition of the runoff at all points of discharge from the construction site. This shall include identification of any discharges of sediment from the construction site. Include discharges from conveyance systems (i.e. pipes, culverts, ditches, etc.) and overland flow.
5. A description of the condition of all natural surface waterbodies located within, or immediately, adjacent to, the property boundaries of the construction site which receive runoff from disturbed areas. This shall include identification of any discharges of sediment to the surface waterbody.
6. Identification of all erosion and sediment control practices that need repair or maintenance.
7. Identification of all erosion and sediment control practice that were not installed properly or are not functioning as designed and need to be reinstalled or replaced.
8. Description and sketch of areas that are disturbed at the time of the inspection and areas that have been stabilized (temporary and/or final) since the last inspection.
9. Current phase of construction of all post-construction stormwater management practices and identification of all construction that is not in conformance with the SWPPP and technical standards.
10. Corrective action(s) that must be taken to install, repair, replace or maintain erosion and sediment control practices; and to correct deficiencies identified with the construction of the post-construction stormwater management practices.
11. Digital photographs, with date stamp, that clearly show the condition of all practices that have been identified as needing correction actions. The qualified inspector shall also take digital photographs, with date stamp, that clearly show the condition of the practice(s) after the corrective action has been completed.

Within one business day of the completion of an inspection, the qualified inspector shall notify the Owner or Operator and appropriate Contractor (or Subcontractor) of any corrective actions that need to be taken. The Contractor (or Subcontractor) shall begin implementing the corrective action within one business day of this notification and shall complete the corrective actions in a reasonable time frame. All inspection reports shall be signed by the qualified inspector. A sample inspection report is included in Appendix K.

The Owner or Operator shall maintain a record of all inspection reports in a site log book until all disturbed areas have achieved final stabilization and the N.O.T. has been submitted to the DEC. The site log book shall be maintained on site and be made available to the permitting authority upon request.

Prior to filing of the Notice of Termination or the end of permit term, the Owner or Operator shall have the qualified professional perform a final site inspection. The qualified professional shall be provided with a certified final asbuilt survey. The survey shall locate and provide detailed information for the permanent stormwater facilities. The information provided shall include and not be limited to the following: rim and invert elevations of all structures, outlets, weirs, etc.; pipe material and sizes; basin dimensions, elevations and topography; and any other pertinent information specific to the stormwater practice constructed.

Upon final review of the asbuilt survey and completed site improvements, the qualified professional shall certify that the site has undergone final stabilization using either vegetative or structural stabilization methods and that all temporary erosion and sediment controls (such as silt fencing) not needed for long-term erosion control have been removed.

The qualified professional shall then complete the Notice of Termination (NOT) to be signed by the Owner. The NOT with the required supporting documentation shall be submitted to the MS4 for signature of approval which will then be forwarded to the NYS DEC.

## **11.0 Installation and Maintenance of Stormwater Management Practices**

### **11.1 During Construction**

The Contractor shall be responsible for the installation and maintenance of all temporary erosion control measures. The Contractor shall also be responsible for the installation of permanent control measures. The Operator shall be responsible for the maintenance of all permanent control measures.

All temporary erosion control measures installed on the project site shall be observed and maintained to ensure that they are operating as intended as follows:

1. Temporary measures will be inspected by the trained Contractor daily. Any necessary repairs, replacements, or upgrades will be made immediately.
2. Accumulated sediments will be removed as required to keep the measures functional. In the case of silt fencing and haybales (if applicable), remove deposits where accumulations reach half the height of the fence or bale. In the case of sediment basins, remove deposits whenever their capacity has been reduced by fifty percent (50%) from the design capacity.
3. All erosion of the silt fence will be repaired immediately with compacted backfill materials.
4. Disturbed areas, stockpile areas, areas used for storage of materials that are exposed to precipitation shall be inspected for evidence of, or the potential for, pollutants entering the drainage system or downstream.
5. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters.

6. Locations where vehicles enter or exit the site shall be inspected for evidence of off-site sediment tracking.
7. The permanent storm drainage system shall be inspected and cleaned of all sediment prior to completion of project.

## **11.2 After Construction**

The long-term operation and maintenance of the stormwater management system will be the responsibility of the Owner. A legally binding document will be signed detailing the responsible parties and required actions.

A sample of the Stormwater Management Inspection and Maintenance Agreement is included, as Schedule "B" in Appendix L.

The following is the proposed Inspection and Maintenance Schedule:

<b>Control to be Inspected</b>	<b>Inspection Frequency</b>	<b>Maintenance Threshold Criteria</b>	<b>Maintenance Procedure</b>
Drain Inlets	Quarterly	3"+ accumulated sediment	Remove debris and sediment annually.
Rain Garden	Quarterly	Ponding for more than 48 hours	Remove accumulated sediment and debris; weed and replace plants and mulch as needed.
First Defense Unit	Bi-Annually	As needed	Remove debris and sediment

### **Recommended Maintenance Access:**

#### **Drain Inlets/Stormfilter:**

Access through grate structure and remove debris and sediment with hand tools or vacuum truck.

#### **In General:**

- Controls should be inspected periodically for the first few months after construction and on a semi-annual basis thereafter. They should also be inspected after major storm events (greater than 0.5 inches).
- All stormwater controls shall be inspected and cleaned of any debris or sediment.
- Any erosion shall be repaired and stabilized with seeding and mulch or stone.
- Maintenance and access shall comply with all local, State and Federal safety codes and guidelines.



Please note that additional notes regarding maintenance activities are contained on the project Construction Drawings and should be adhered to during and after construction.

## **12.0 Owner / Contractor Responsibilities**

### **12.1 Owner / Operator Certification Statement**

The \_\_\_\_\_ is the Owner/Operator of the project for the purpose of this Permit (see Appendix A). The Owner must sign a copy of the Owner's Certification Statement before construction commences (see Appendix C).

### **12.2 Contractor Certification Statement**

The Owner is responsible for ensuring all Contractors and Subcontractors associated with site work construction activities identified within this SWPPP agree to implement applicable provisions of the SWPPP and sign a copy of the Contractor Certification Statement (see Appendix C) before construction commences.

In addition, the Owner/Operator is responsible to make sure that all Contractors and Subcontractors shall identify at least one person representing the Company at the site will be responsible for implementation of the SWPPP. This person will be known as the Trained Contractor and will have the required 4-hour Certification. This Certification is available through the NYS DEC. The listing of courses can be found at the NYS DEC Website.

### **12.3 Retention of Records**

The Owner shall retain a copy of the most current SWPPP at the construction site from the date construction is initiated at the site until the date of construction at the site is completed and the N.O.T. has been filed.

Once work is completed, the Owner shall submit to the NYSDEC a Notice of Termination (see Appendix A).

The Owner shall retain copies of the N.O.I, N.O.T., Acknowledgement Letter, MS4 SWPPP Acceptance Form, SWPPP and all reports required by the General Permit for a period of five (5) years from the date that the site achieves final stabilization unless the NYSDEC specifies another time period in writing.

## **13.0 Conclusion**

The Stormwater Management Plan has been established for this project in accordance with the requirements of NYS DEC GP-0-20-001 and the Town Code of Yorktown. This plan will effectively control stormwater generated by this project during and after construction. The management of the stormwater is based on controlling increases in peak runoff as well as water quality. The design of the water quality component not only will treat runoff due to the project, but also that which is currently not treated. Overall it would improve even the existing conditions.

The final design of the project will detail the proposed practices and will establish the method with which they will be constructed. The detail will include layout, grading, plantings, outlet structures, and any other component as required for

the design based on the Erosion and Sediment Control established in this Report. These will be part of the project Construction Drawings. The Sequence of Construction and required maintenance will also be set forth as part of the final construction plan. The full Construction Plan shall be considered part of the Stormwater Management Plan or Stormwater Pollution Prevention Plan.

The effectiveness of the stormwater practices selected in design will be insured by implementing a maintenance plan. The maintenance plan details specific activities, safeguards and provisions to be monitored and performed by specified frequencies. By adhering to the maintenance plan, optimum performance of the stormwater practices can be expected.

Based on the results of the analysis and recommended maintenance practices for the collection and treatment system, the proposed stormwater control designs will provide maximum control efficiency, high effectiveness for removal of pollutants of concern, and the best attainable post-development pollutant loading scenario.

In conclusion, the Stormwater Management Plan will not create negative downstream impacts as a result of this project.

Joseph C. Riina, P.E

October 5, 2021

# **Grishaj Subdivision**

# Site Design Consultants

Civil Engineers • Land Planners

October 7, 2021

Ms. Robyn Steinberg, AICP  
Town Planner - Town of Yorktown  
Commerce Street  
Yorktown Heights, NY 10598

RECEIVED  
PLANNING DEPARTMENT

OCT 7 2021

TOWN OF YORKTOWN

Re: Nikolla Grishaj  
Subdivision of 3319 Stoney Street  
Scofield Road and Stoney Street  
SBL 16.17-2-77

Dear Robyn:

As a follow-up to our last meeting with the Planning Board, we are submitting the following items for distribution and discussion at the October 18 Planning Board Meeting.

- Six sets of plans titled "Site Plan Prepared for Nikolla Grishaj," Sheets 1-17 of 17, dated 5/7/2021, last revised 10-7-21;

We will send you a digital copy of the plans. Please add this project to the agenda for the Planning Board Meeting of October 18. Contact me if you have any questions. Thank you.

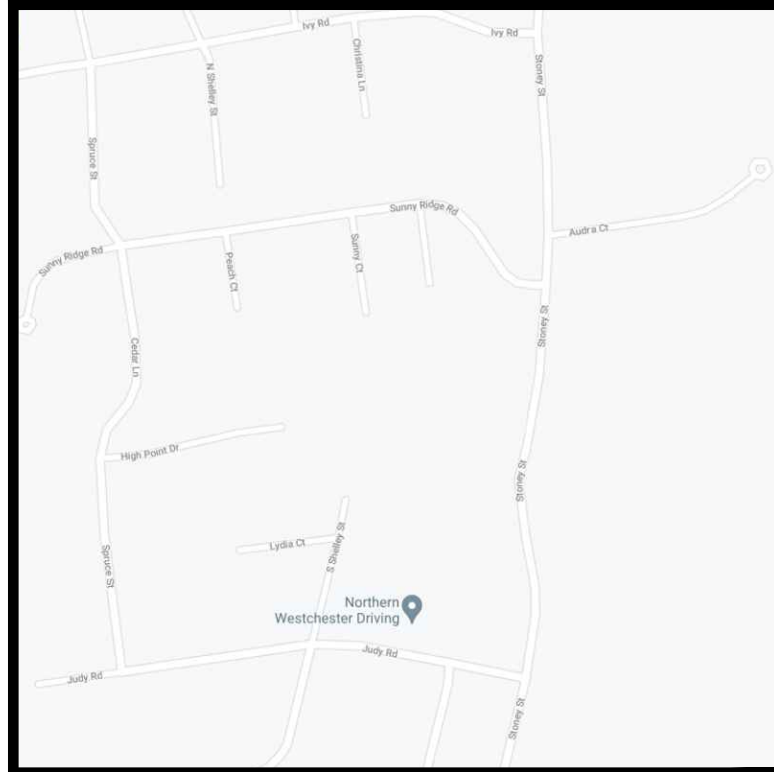
Yours Truly,

  
Joseph C. Riina, P.E.

Cc: Nikolla Grishaj  
Building Department  
Engineering Department  
Town Supervisor  
Ed Lachterman

JCR / cm / Enc. / sdc 21-18





LOCATION MAP  
NOT TO SCALE

ZONING SCHEDULE:

ZONING DISTRICT:		R1-20, SINGLE FAMILY RESIDENTIAL										
DIMENSIONAL REGULATIONS:	REQUIRED	LOT 1	LOT 2	LOT 3	LOT 4	LOT 5	LOT 6	LOT 7	LOT 8	LOT 9	LOT 10	VARIANCE REQUIRED
MINIMUM SIZE OF LOT:												
MINIMUM LOT AREA:	20,000 SF.	22,265 SF.	21,188 SF.	23,713 SF.	41,363 SF.	32,579 SF.	21,702 SF.	20,805 SF.	21,000 SF.	20,527 SF.	20,479 SF.	NONE
MINIMUM LOT WIDTH:	100 FT.	105 FT.	105 FT.	108 FT.	129.28 FT.	149.4 FT.	113.68 FT.	104.76 FT.	105.02 FT.	198.24 FT.	188.53 FT.	NONE
MINIMUM LOT DEPTH:	100 FT.	208.16 FT.	190.43 FT.	190.43 FT.	188.69 FT.	178.92 FT.	178.92 FT.	198.24 FT.	104.99 FT.	103.34 FT.	103.34 FT.	NONE
MINIMUM ROAD FRONTAGE:	100 FT.	105 FT.	116.47 FT.	41.3 FT.	285.21 FT.	239.16 FT.	81.77 FT.	113.87 FT.	105.02 FT.	293.15 FT.	297.6 FT.	NONE
MINIMUM YARD DIMENSIONS:												
PRINCIPAL BUILDING:												
FRONT YARD SETBACK:	40 FT.	67.13 FT.	60.9 FT.	94.4 FT.	105.4 FT.	74.9 FT.	48.8 FT.	75.9 FT.	69.5 FT.	46.2 FT.	48 FT.	NONE
REAR YARD SETBACK:	40 FT.	115 FT.	95.1 FT.	76.1 FT.	55.8 FT.	46.0 FT.	88.8 FT.	96.4 FT.	101.2 FT.	31.3 FT.	31.5 FT.	NONE
ONE SIDE YARD SETBACK:	15 FT.	15.1 FT.	15.5 FT.	18.3 FT.	36.0 FT.	39.4 FT.	22.4 FT.	16.3 FT.	15.1 FT.	58.8 FT.	55.2 FT.	NONE
COMBINED SIDE YARD SETBACK:	40 FT.	40.7 FT.	40.7 FT.	51.9 FT.	76.4 FT.	94.6 FT.	50.6 FT.	41 FT.	40.7 FT.	131.3 FT.	72 FT.	NONE
MAXIMUM % OF LOT TO BE OCCUPIED:												
PRINCIPAL BUILDING COVERAGE:	20% OF LOT AREA	7.4% OF LOT AREA	7.8% OF LOT AREA	5.6% OF LOT AREA	4.5% OF LOT AREA	5.2% OF LOT AREA	7.7% OF LOT AREA	8.0% OF LOT AREA	7.9% OF LOT AREA	8.1% OF LOT AREA	8.1% OF LOT AREA	NONE
MAXIMUM HEIGHT:												
PRINCIPAL BUILDING - FEET:	35 FEET	35 FEET	35 FEET	35 FEET	35 FEET	35 FEET	35 FEET	35 FEET	35 FEET	35 FEET	35 FEET	NONE
PRINCIPAL BUILDING - STORIES:	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	NONE
ACCESSORY BUILDING - FEET:	35 FEET	35 FEET	35 FEET	35 FEET	35 FEET	35 FEET	35 FEET	35 FEET	35 FEET	35 FEET	35 FEET	NONE
ACCESSORY BUILDING - STORIES:	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	NONE

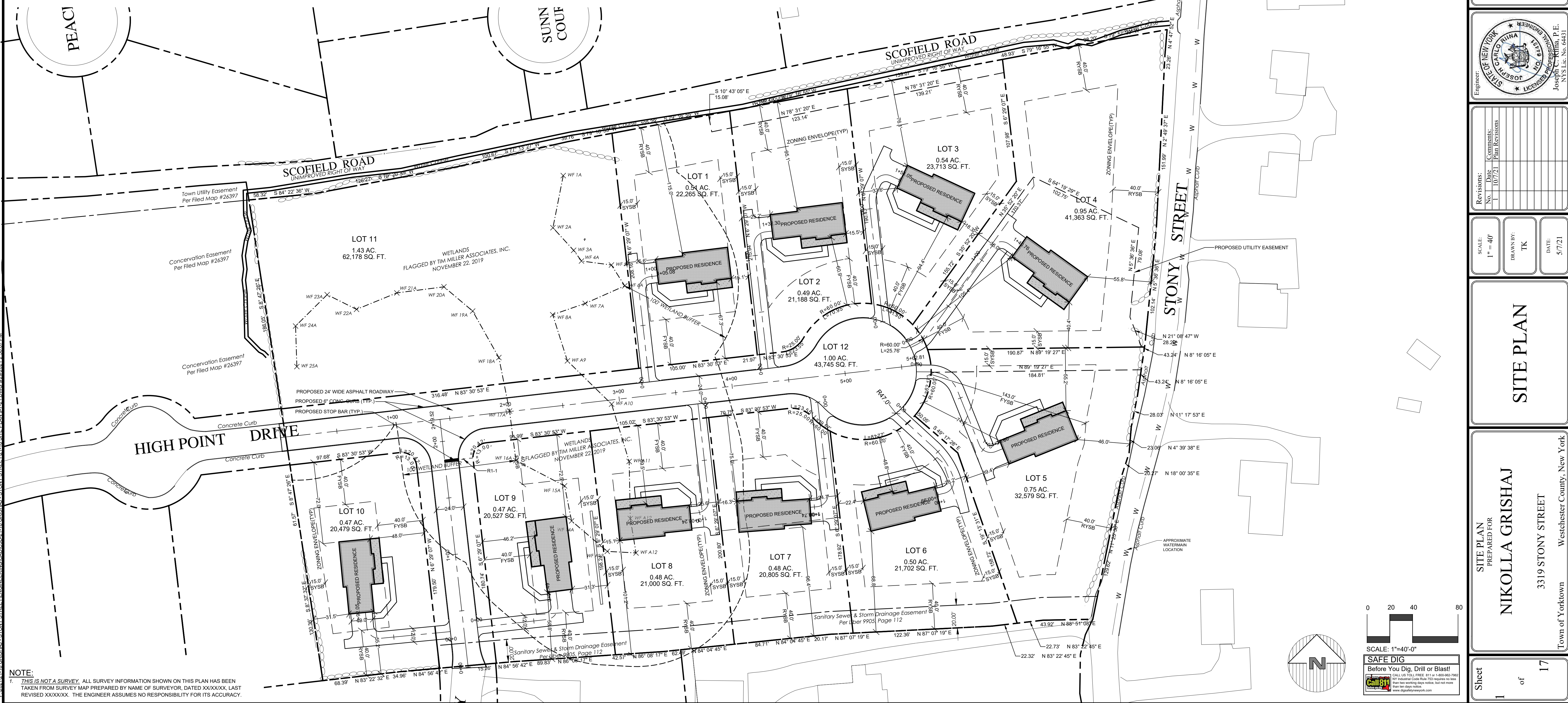
WETLAND DISTURBANCE:

	PROPOSED		PROPOSED MITIGATION CREATED WETLAND
	DISTURBANCE	IMPERVIOUS	
WETLAND	7,639 SF	2,585 SF	xxx SF
100' WETLAND ADJACENT AREA	59,999 SF	21,408 SF	

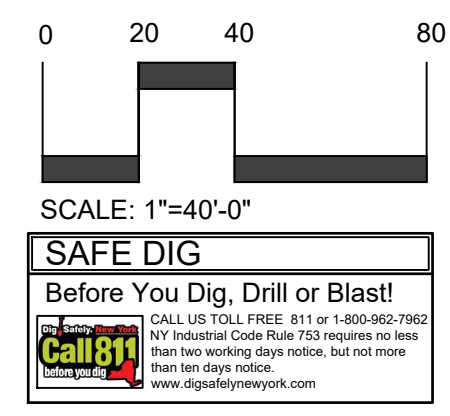
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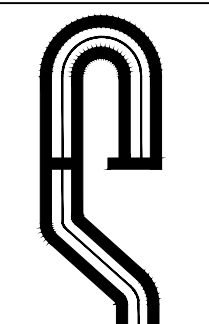
OWNER / DEVELOPER: NIKOLLA GRISHAJ  
11 MUDROCK ROAD  
NEW CITY, NY, 10596  
3319 STONY STREET  
YORKTOWN, NY, 10598

PROJECT LOCATION: R1-20, RESIDENTIAL  
PROPOSED USE: R1-20, RESIDENTIAL DESCRIPTION  
TOWN TAX MAP DATA: SECTION 16.17, BLOCK 2, LOT 77  
SITE AREA: 8.07 ACRES (351,544 SF)  
SEWAGE FACILITIES: PUBLIC SEWERS  
WATER FACILITIES: PUBLIC WATER FACILITIES



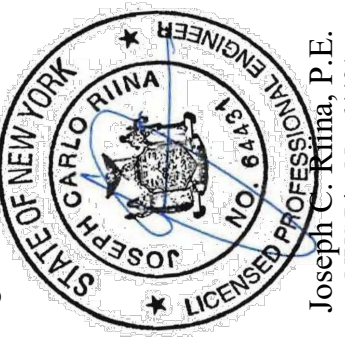
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251-J Underhill Avenue, Yorktown Heights, NY 10598  
(914) 962-4488 - Fax: (914) 962-7386  
www.sitedesignconsultants.com

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Engineer: Joseph C. Kiffin, P.E.  
NYS Lic. No. 64431

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Revisions:	No.	Date	Comments:

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SCALE: 1" = 40'	DRAWN BY: TK	DATE: 5/7/21
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**SITE PLAN**

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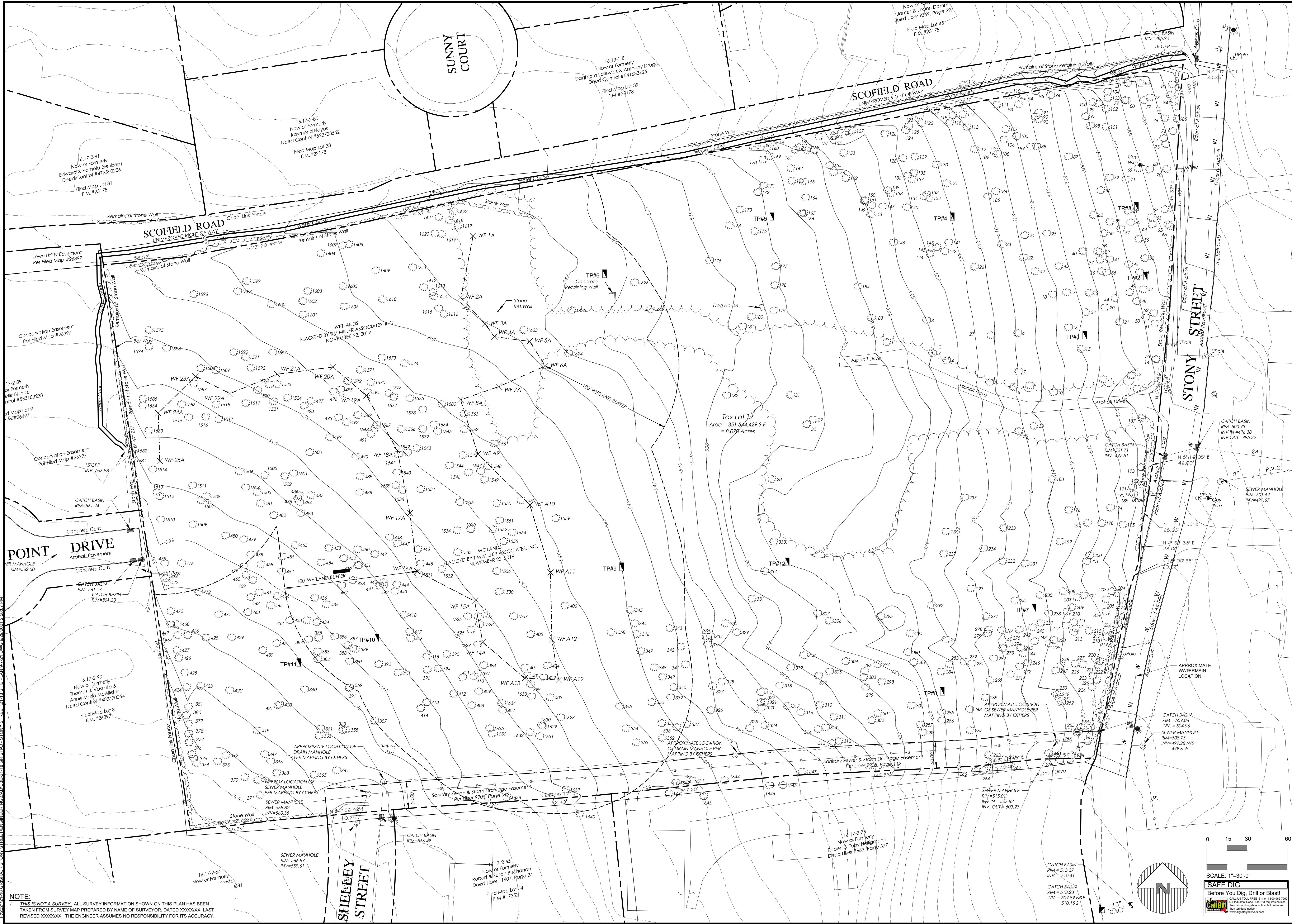
SITE PLAN PREPARED FOR  
**NIKOLLA GRISHAJ**  
3319 STONY STREET  
Town of Yorktown, Westchester County, New York

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Sheet **17** of **17**

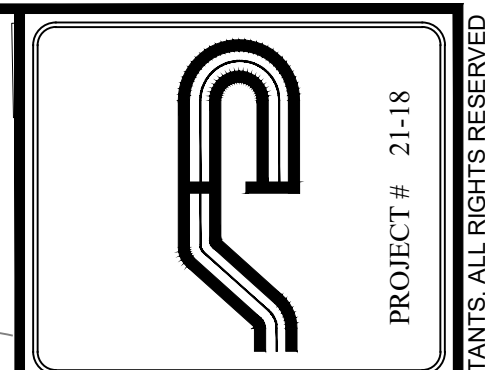
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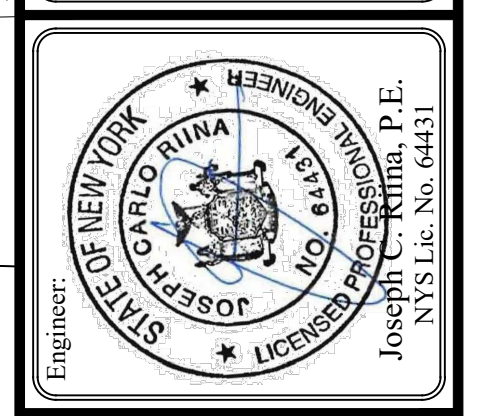


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Revisions:	No.	Date	Comments
	1	10/7/21	Plan Revisions

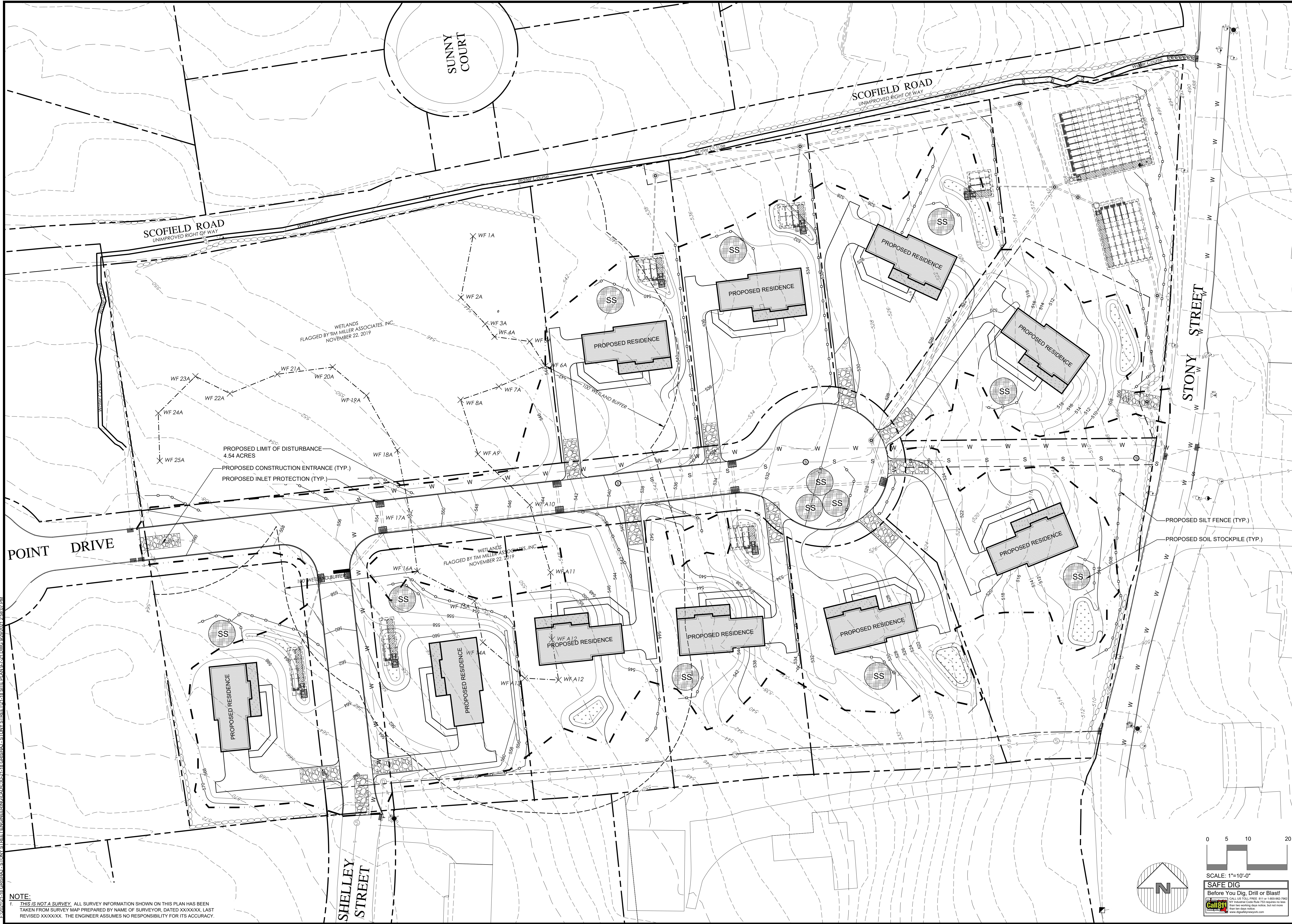
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 DATE: 5/7/21

# EXISTING CONDITIONS PLAN

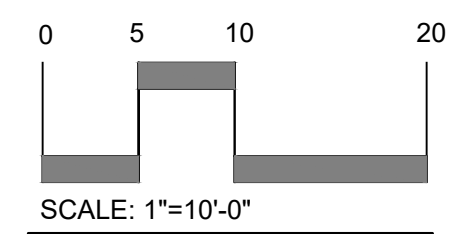
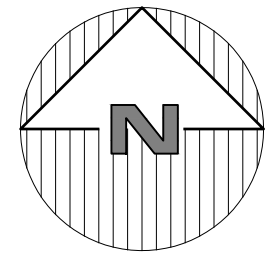
SITE PLAN PREPARED FOR  
**NIKOLLA GRISHAJ**  
 3319 STONY STREET  
 Town of Yorktown, Westchester County, New York

PROJECT # 21-18

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Revisions:	No.	Date	Comments
	1	10/7/21	Plan Revisions

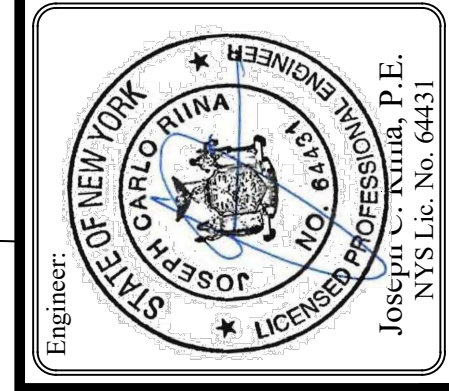
SCALE: 1" = 30'  
 DRAWN BY: TK  
 DATE: 5/7/21

# E&S PLAN

SITE PLAN  
 PREPARED FOR  
**NIKOLLA GRISHAJ**  
 3319 STONY STREET  
 Town of Yorktown Westchester County, New York

Sheet 3 of 17

**Site Design Consultants**  
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 www.sitedesignconsultants.com



Engineer:  
 JOSEPH C. KIMB, P.E.  
 LICENSE NO. 64431  
 STATE OF NEW YORK

Project # 21-18

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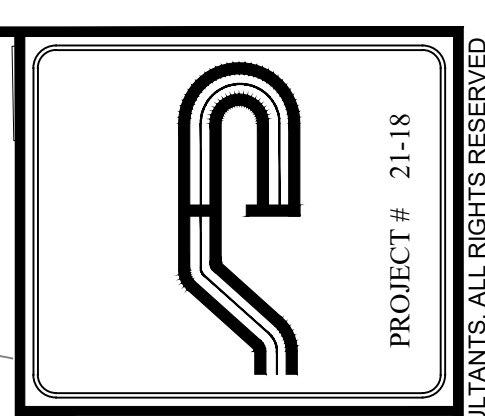
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CB-1 TO CB-2	CB-1	CB-2	19.03	553.60	553.49	0.50	18	SMH-1 TO SMH-2	SMH-1	SMH-2	137.62	534.65	525.90	6.19	8
CB-2 TO CB-4	CB-2	CB-4	39.21	550.83	550.00	1.96	18	SMH-2 TO SMH-3	SMH-2	SMH-3	244.92	525.80	498.62	10.99	8
CB-3 TO CB-4	CB-3	CB-4	18.97	550.00	549.90	0.50	18	SMH-3 TO EX SMH	SMH-3	EX SMH	61.64	498.52	491.67	10.50	8
CB-4 TO CB-6	CB-4	CB-6	129.26	549.65	539.27	7.82	18								
CB-5 TO CB-6	CB-5	CB-6	19.02	539.38	539.27	0.50	18								
CB-6 TO CB-8	CB-6	CB-8	128.61	539.02	528.46	8.00	18								
CB-7 TO CB-8	CB-7	CB-8	19.00	529.59	529.49	0.50	18								
CB-8 TO CB-9	CB-8	CB-9	108.59	525.23	523.96	1.14	18								
CB-9 TO DMH-1	CB-9	DMH-1	28.72	523.71	522.88	2.52	18								
DMH-1 TO BYPASS	DMH-1	BYPASS	230.88	522.63	503.83	8.03	18								
DMH-2 TO DMH-3	DMH-2	DMH-3	106.88	530.88	522.09	7.96	18								
DMH-3 TO DMH-4	DMH-3	DMH-4	164.13	521.84	505.37	9.85	18								
DMH-4 TO BYPASS	DMH-4	BYPASS	63.73	505.23	504.33	1.33	18								
BYPASS TO DOWNSTREAM DEFENDER	BYPASS	DOWNSTREAM DEFENDER	15.05	498.84	498.65	1.00	12								
DOWNSTREAM DEFENDER TO INFILTRATION CHAMBERS	DOWNSTREAM DEFENDER	INFILTRATION CHAMBERS	11.17	499.65	499.50	1.00	12								
BYPASS TO DETENTION CHAMBERS	BYPASS	DETENTION CHAMBERS	9.73	500.25	500.11	1.00	12								
INFILTRATION CHAMBERS TO DMH-5	INFILTRATION CHAMBERS	DMH-5	25.80	499.29	498.63	2.32	12								
DMH-5 TO DMH-6	DMH-5	DMH-6	75.79	498.38	497.98	0.50	12								
DMH-6 TO EX CB	DMH-6	EX CB	39.29	497.73	497.51	0.50	12								
DETENTION CHAMBERS TO RIP RAP CHANNEL	DETENTION CHAMBERS	RIP RAP CHANNEL	27.09	493.25	492.00	4.62	12								

Town Utility Easement  
Per Filed Map #26397

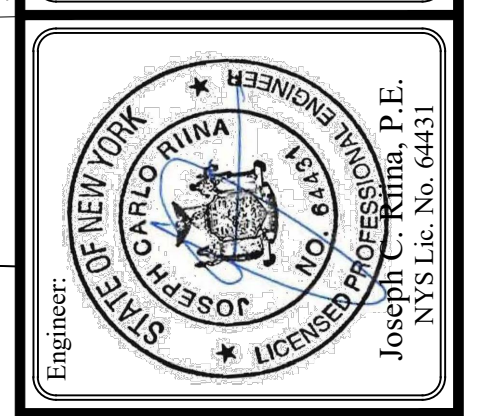


**NOTE:**  
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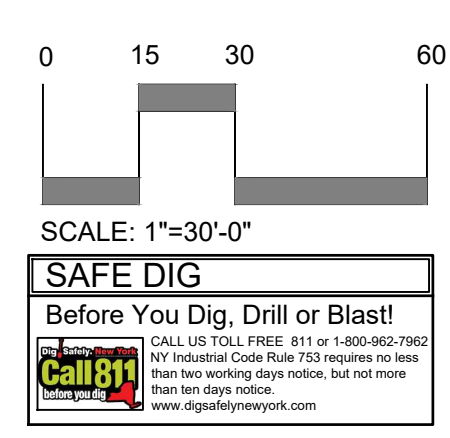


Revisions:	No.	Date	Comments:
	10/7/21		Plan Revisions

SCALE: 1" = 30'  
DRAWN BY: TK  
DATE: 5/7/21

# IMPROVEMENT PLAN

SITE PLAN PREPARED FOR  
**NIKOLLA GRISHAJ**  
3319 STONY STREET  
Town of Yorktown  
Westchester County, New York

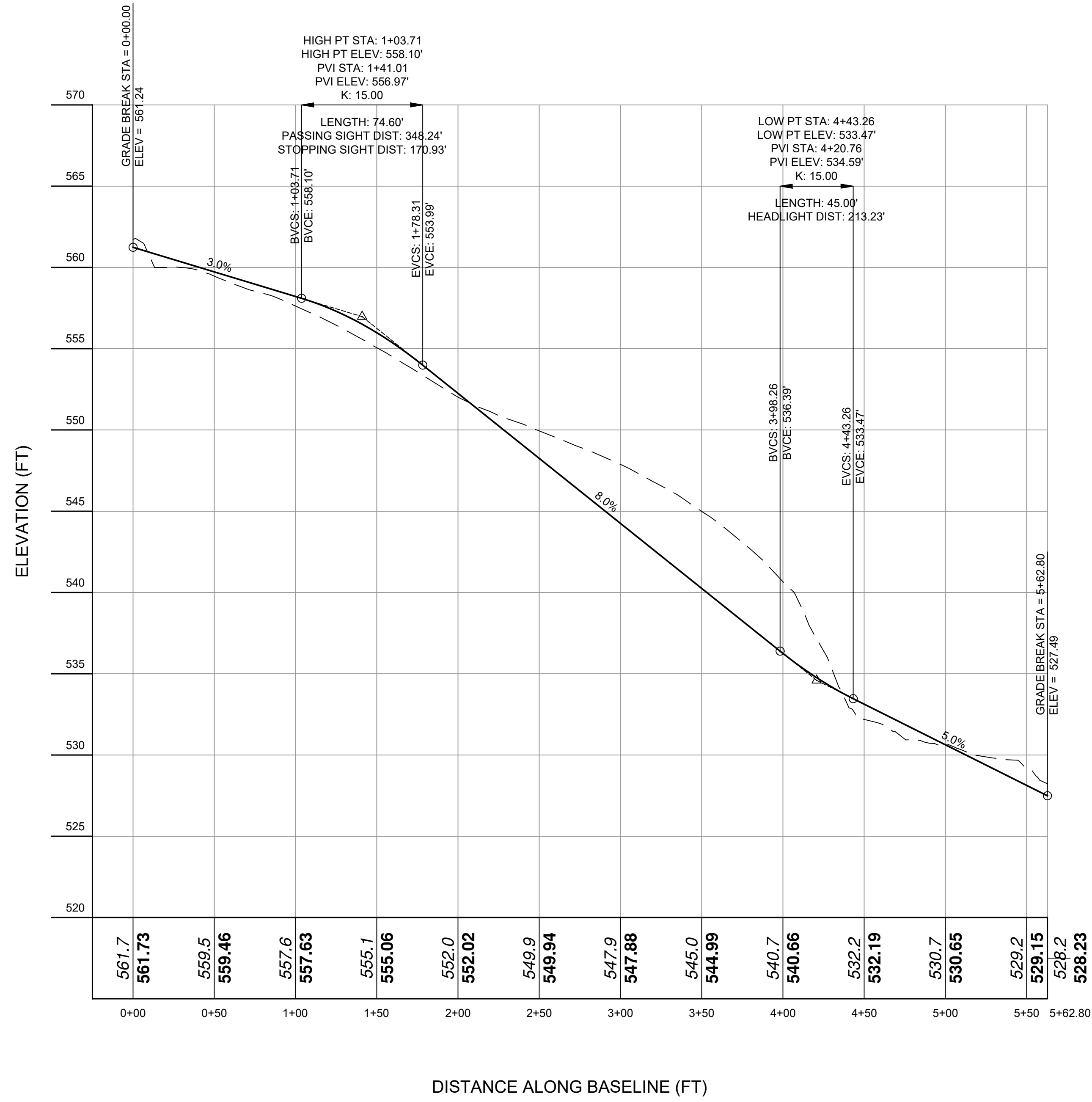


**SAFE DIG**  
Before You Dig, Drill or Blast!  
Call 811

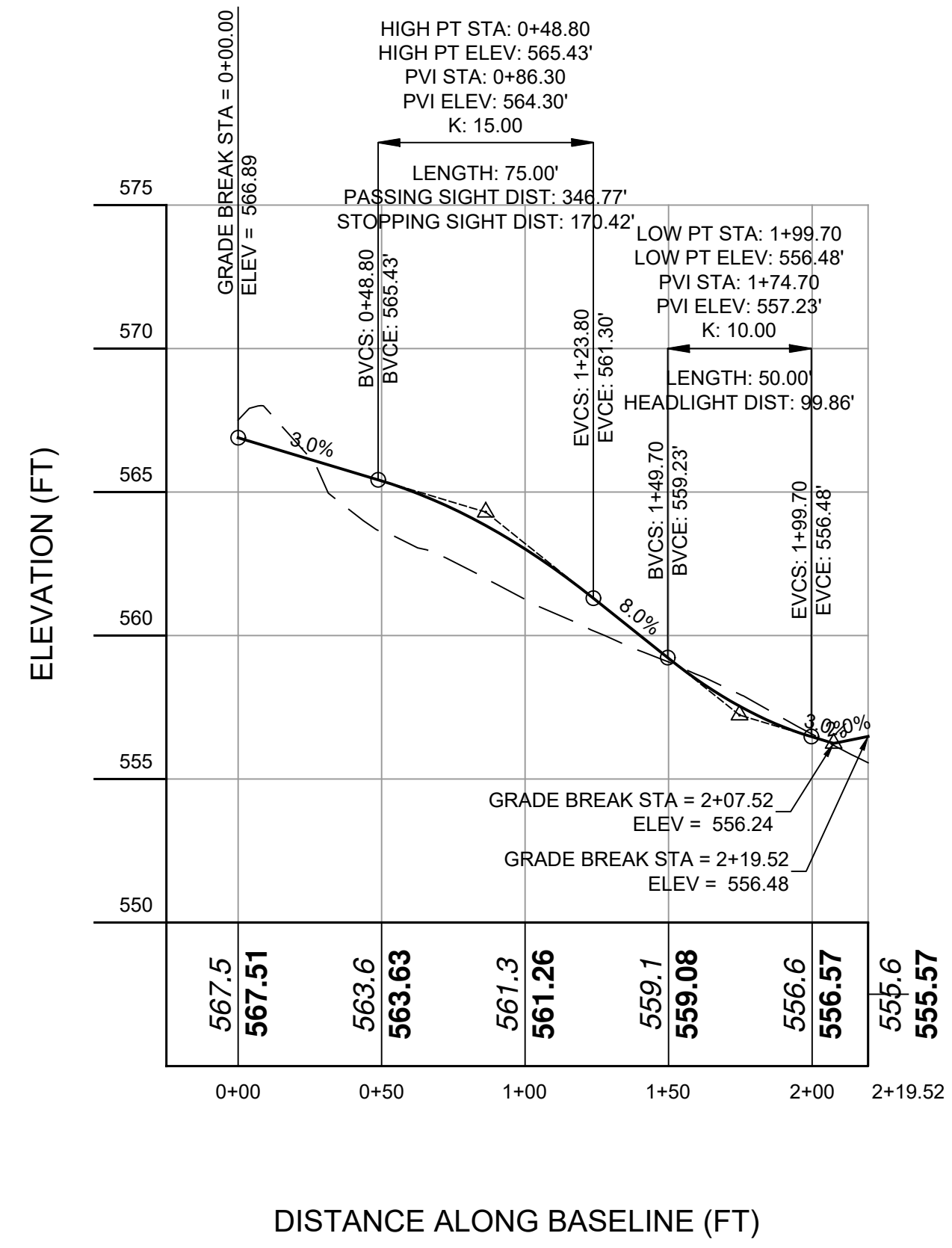
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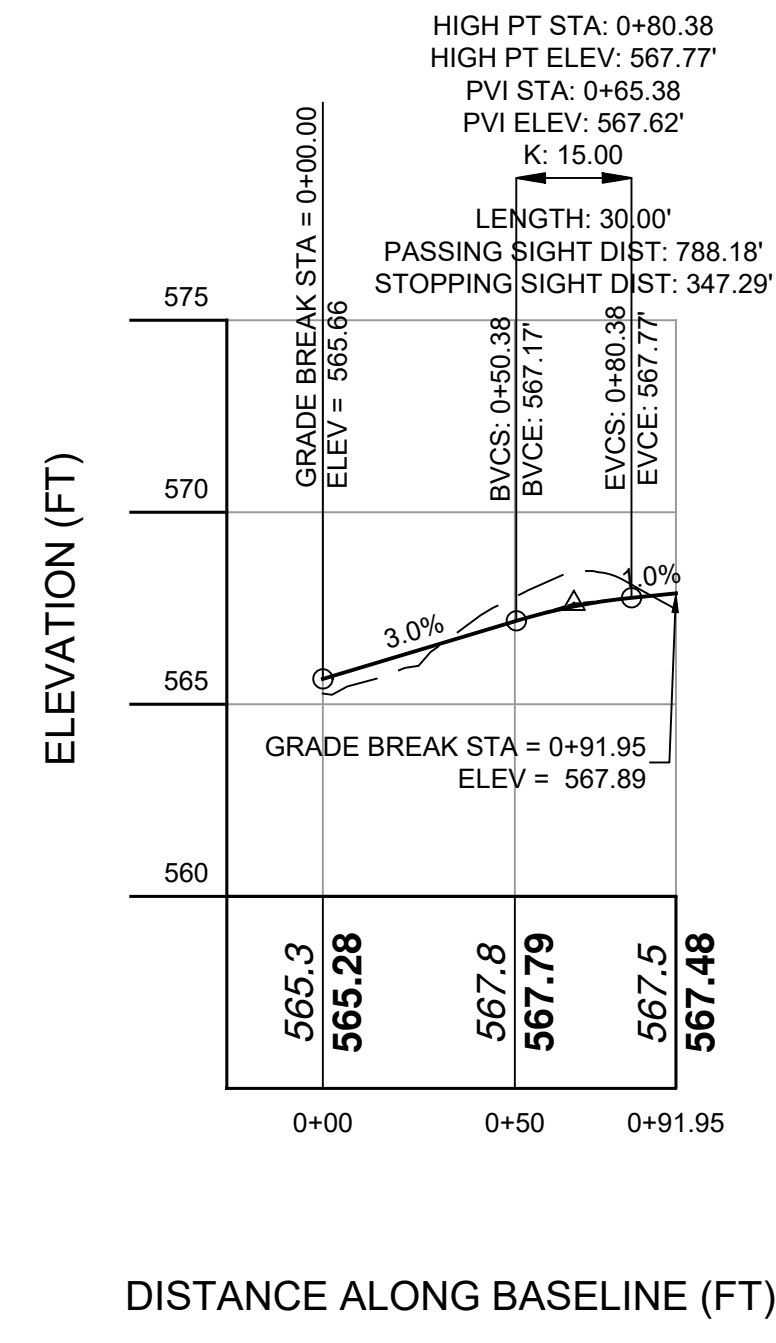
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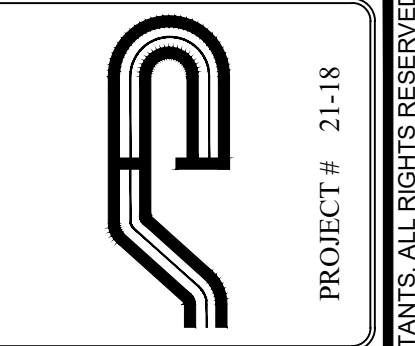
PROPOSED ROAD  
VERT. SCALE: 1" = 5  
HORIZ. SCALE: 1" = 50



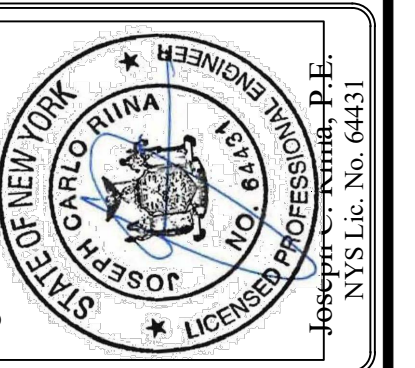
Connecting Road  
VERT. SCALE: 1" = 5  
HORIZ. SCALE: 1" = 50



Lot 10 Driveway  
VERT. SCALE: 1" = 5  
HORIZ. SCALE: 1" = 50



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	1	10/7/21	Plan Revisions

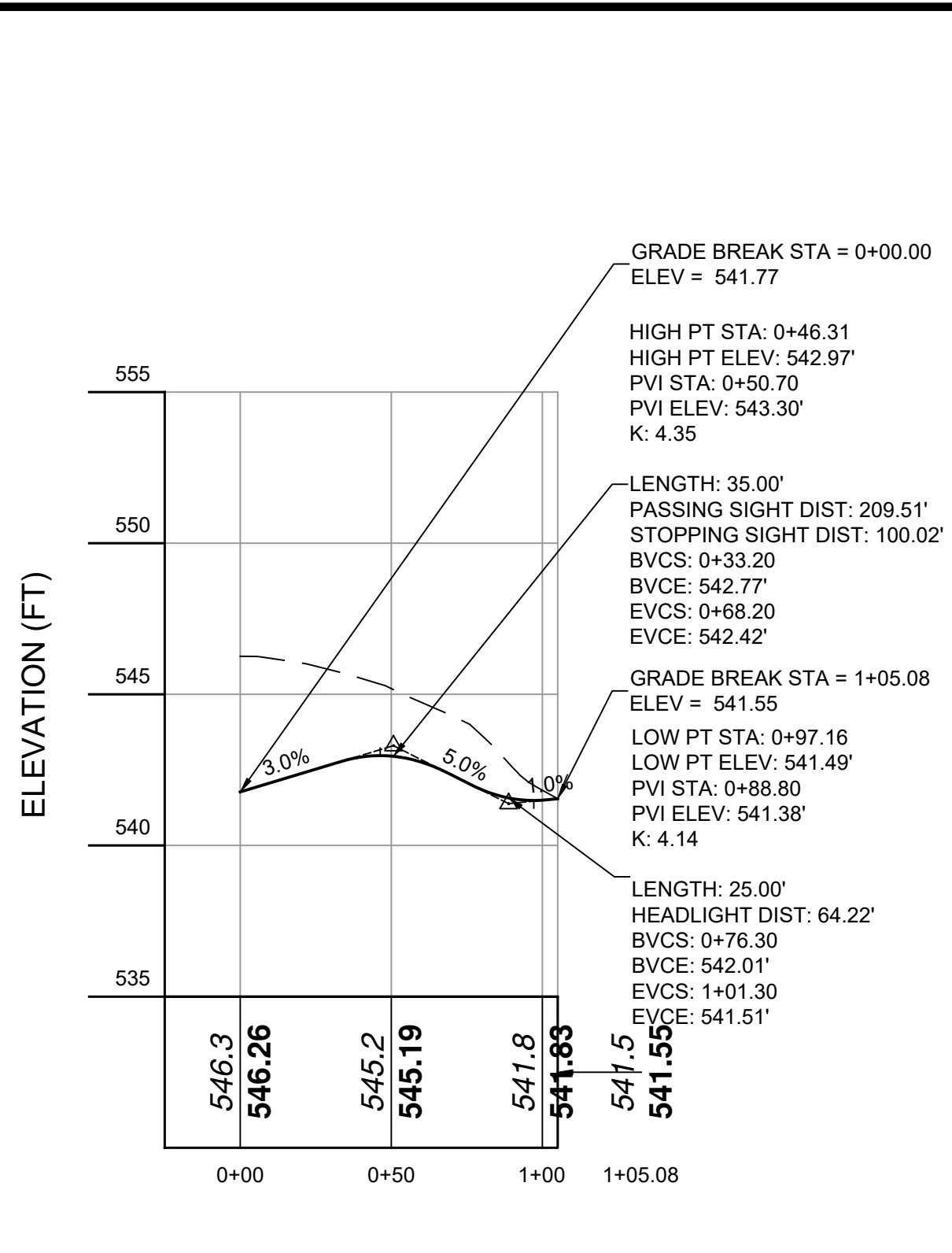
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DRAWN BY: TK  
DATE: 5/7/21

# ROADWAY PROFILES

SITE PLAN PREPARED FOR  
**NIKOLLA GRISHAJ**  
3319 STONY STREET  
Town of Yorktown Westchester County, New York

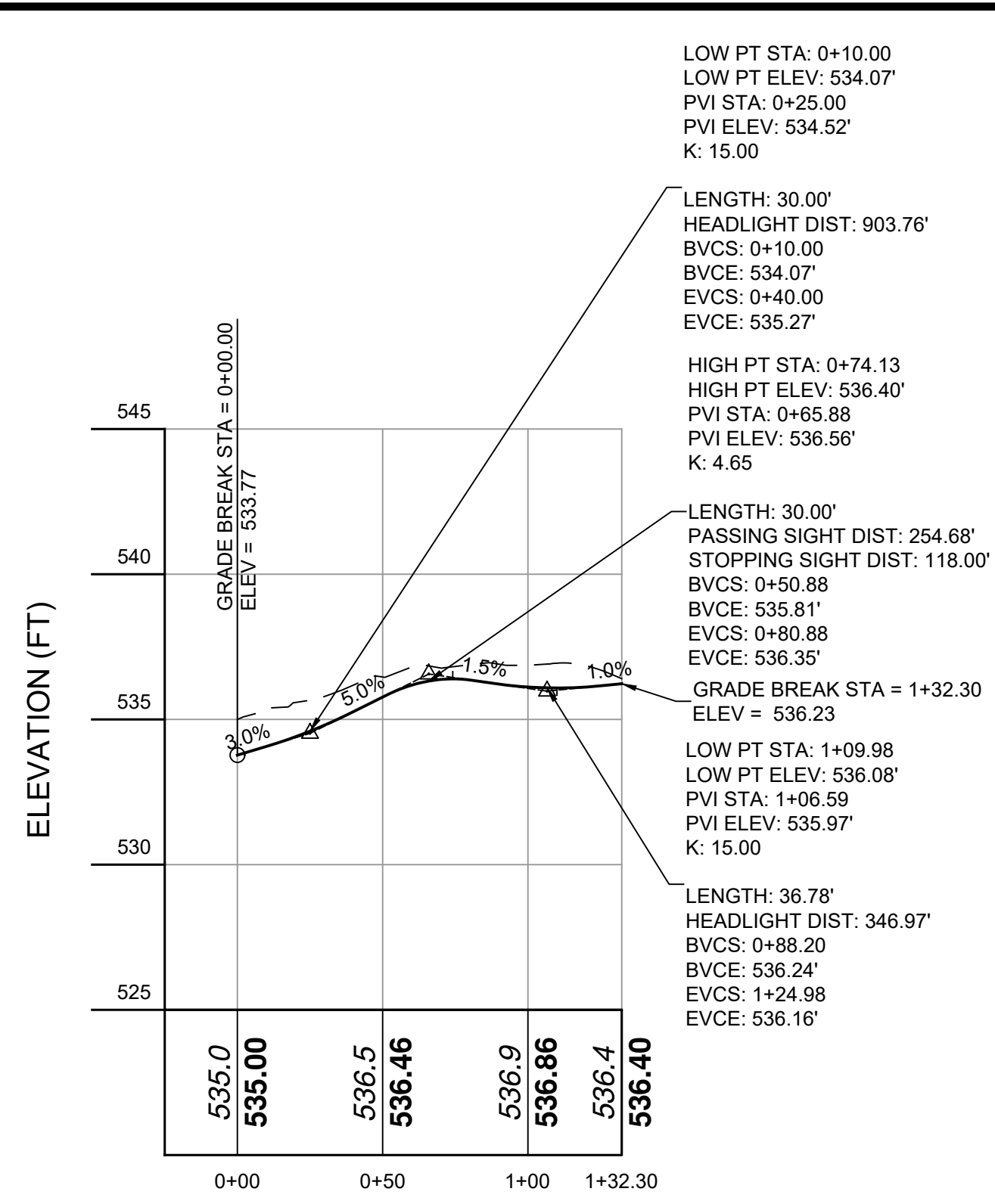
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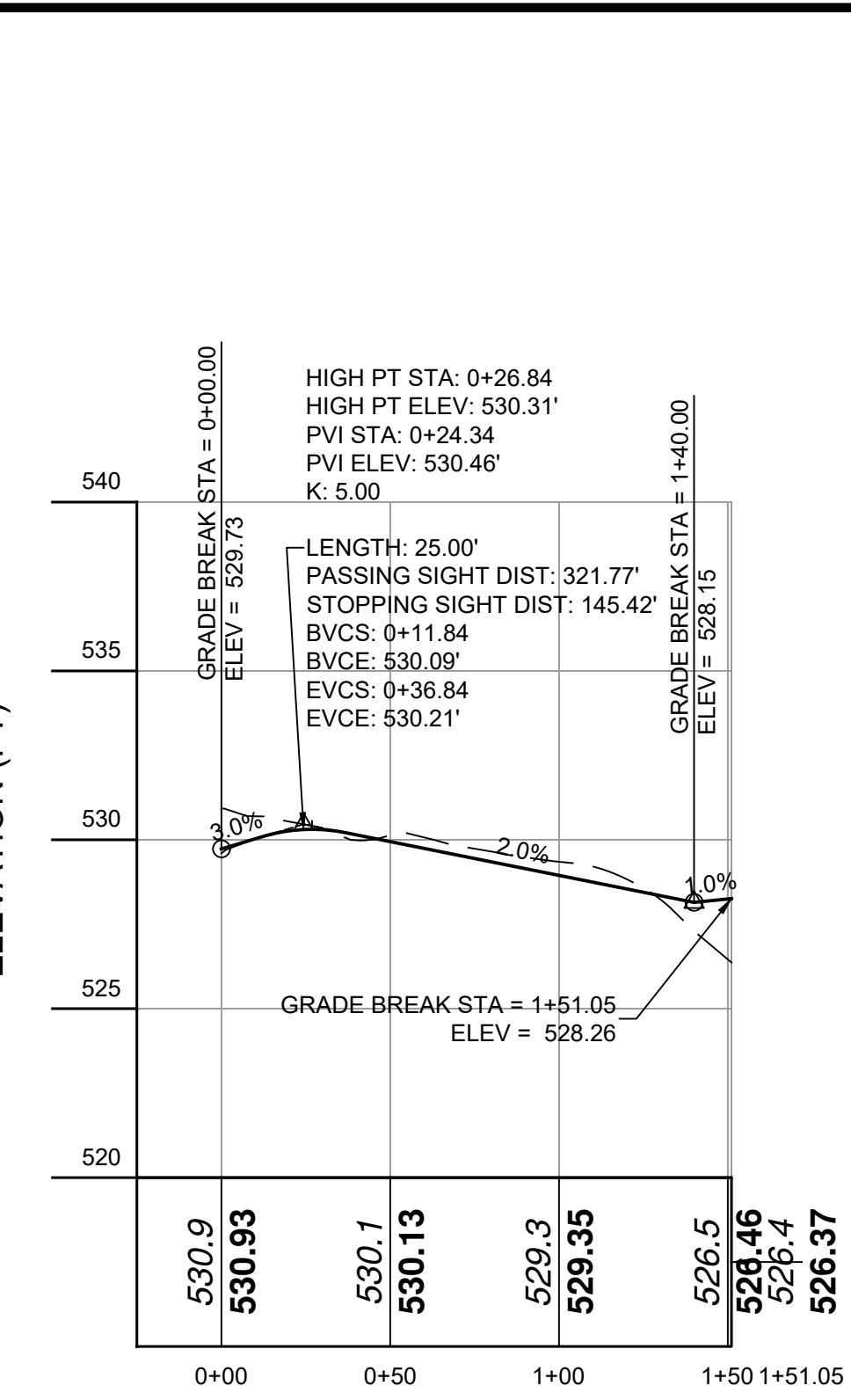
DISTANCE ALONG BASELINE (FT)

Lot 1  
VERT. SCALE: 1" = 5  
HORIZ. SCALE: 1" = 50



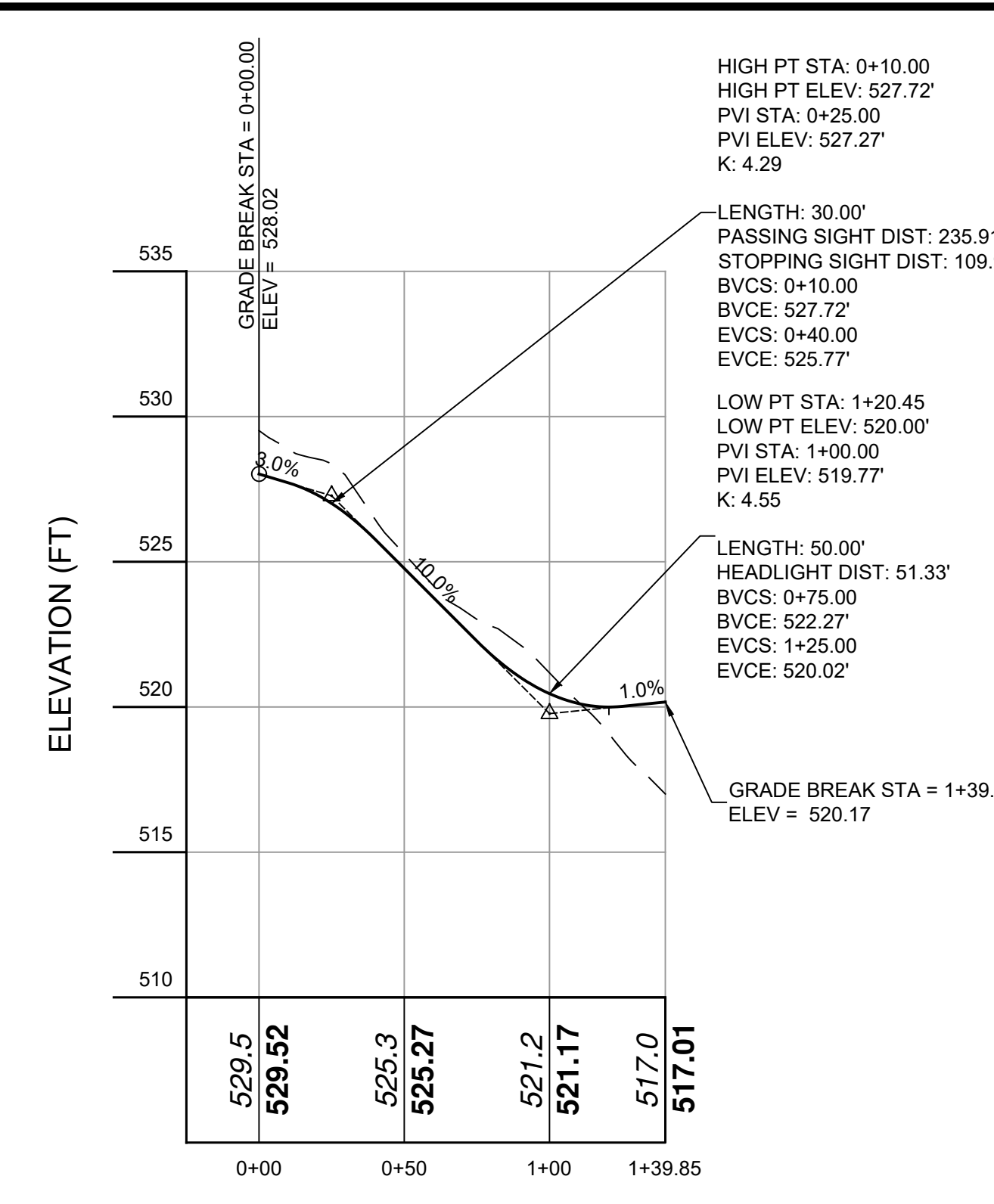
DISTANCE ALONG BASELINE (FT)

Lot 2  
VERT. SCALE: 1" = 5  
HORIZ. SCALE: 1" = 50



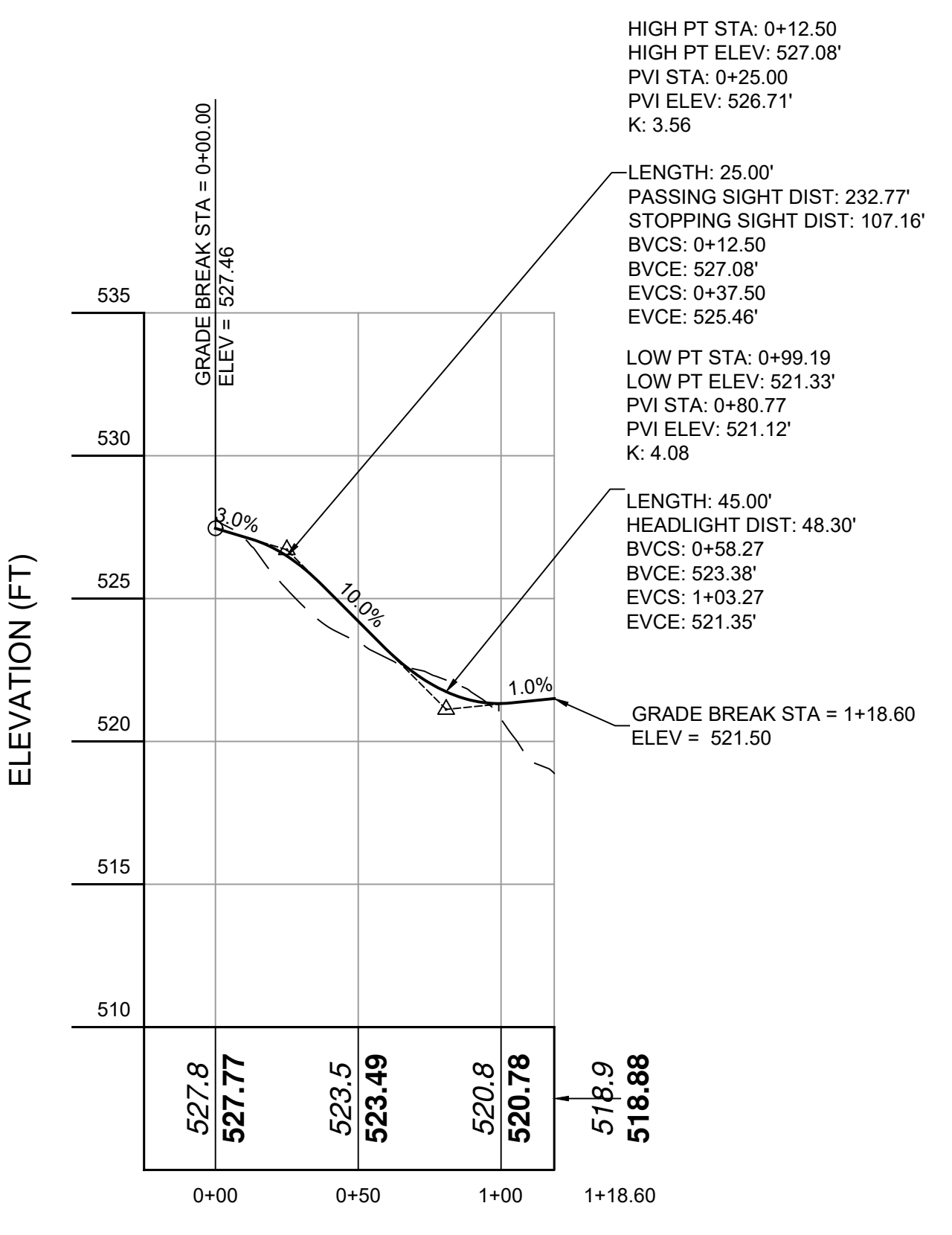
DISTANCE ALONG BASELINE (FT)

Lot 3  
VERT. SCALE: 1" = 5  
HORIZ. SCALE: 1" = 50



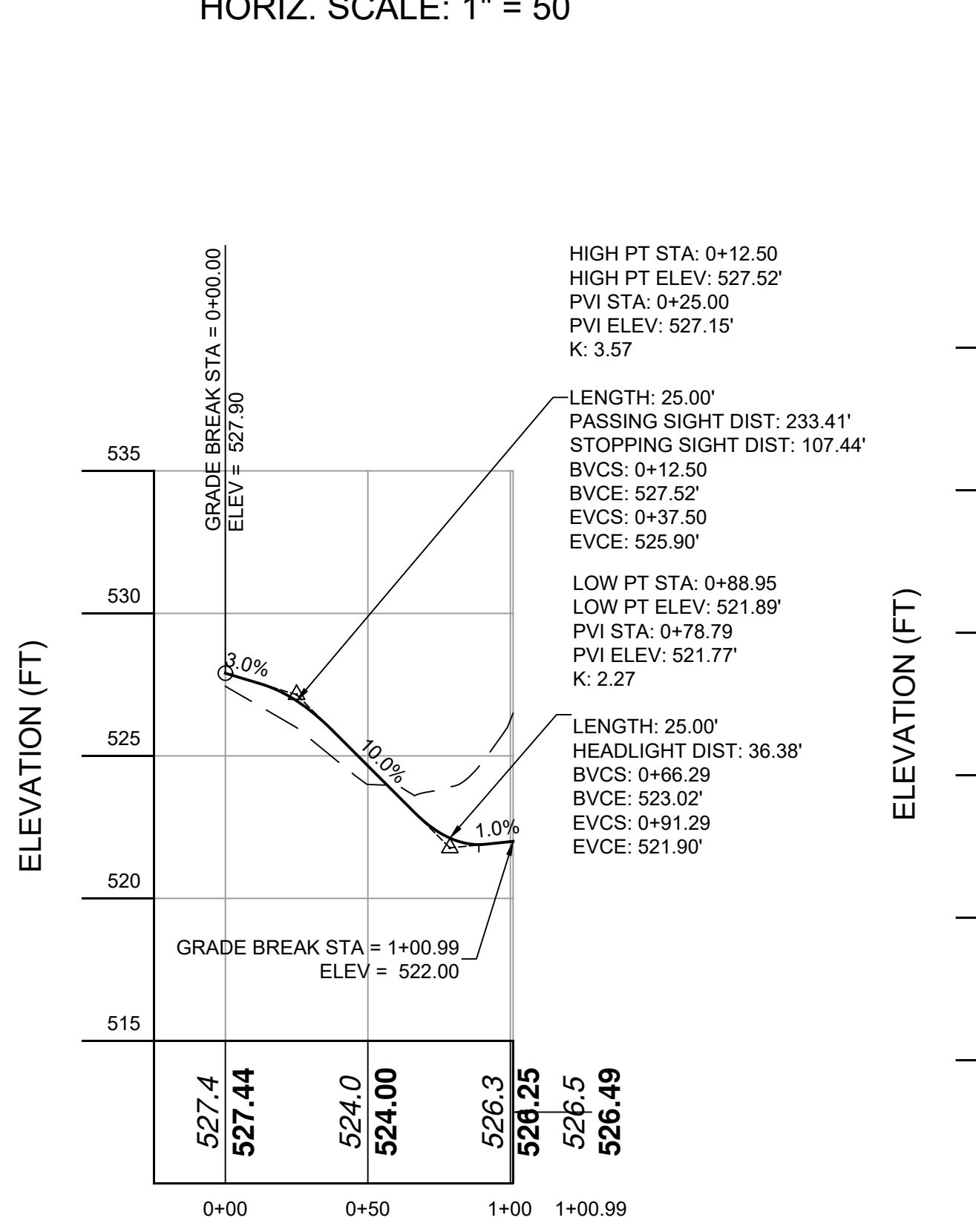
DISTANCE ALONG BASELINE (FT)

LOT 4 DRIVE  
VERT. SCALE: 1" = 5  
HORIZ. SCALE: 1" = 50



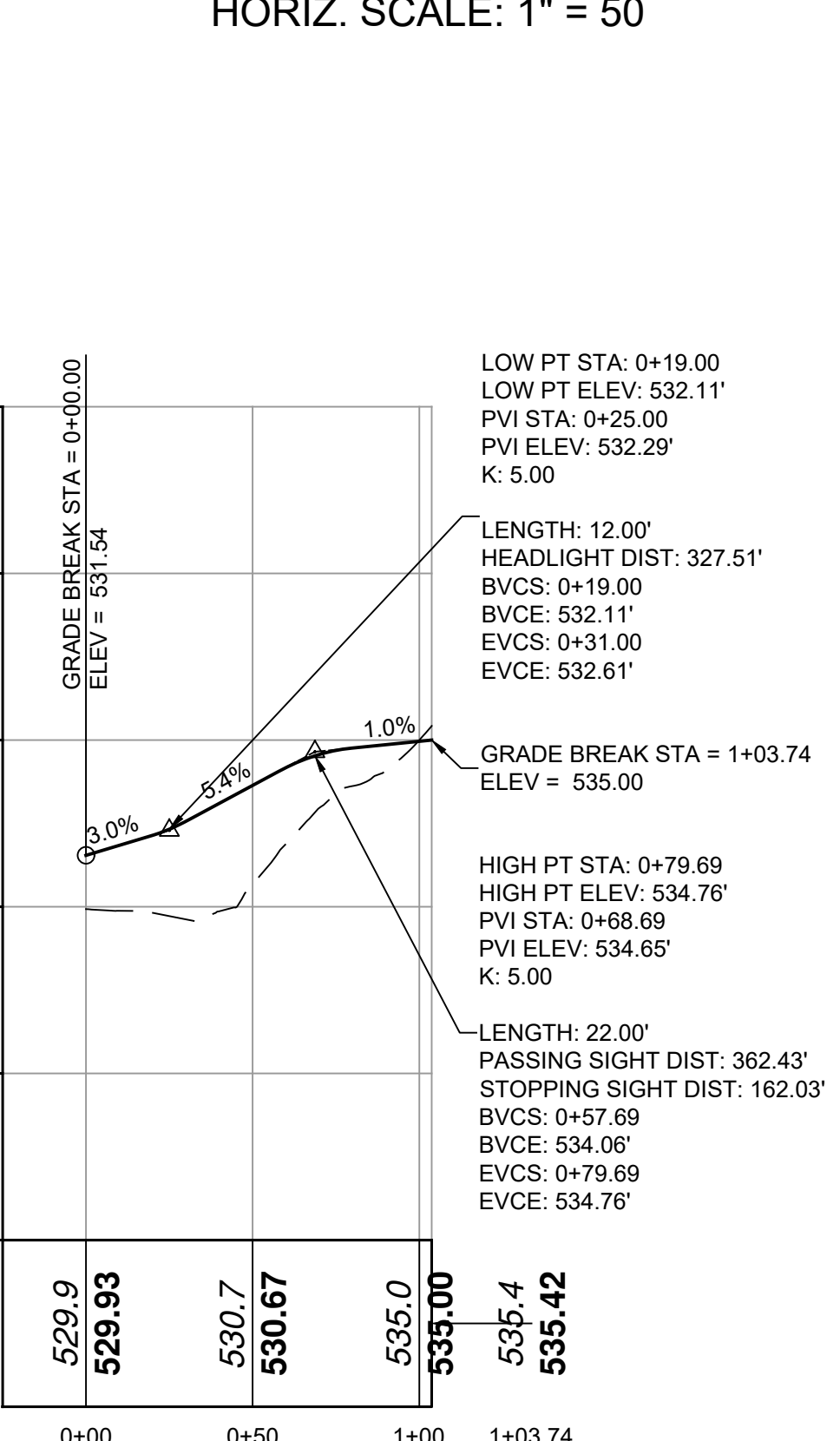
DISTANCE ALONG BASELINE (FT)

LOT 5 DRIVEWAY  
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HORIZ. SCALE: 1" = 50



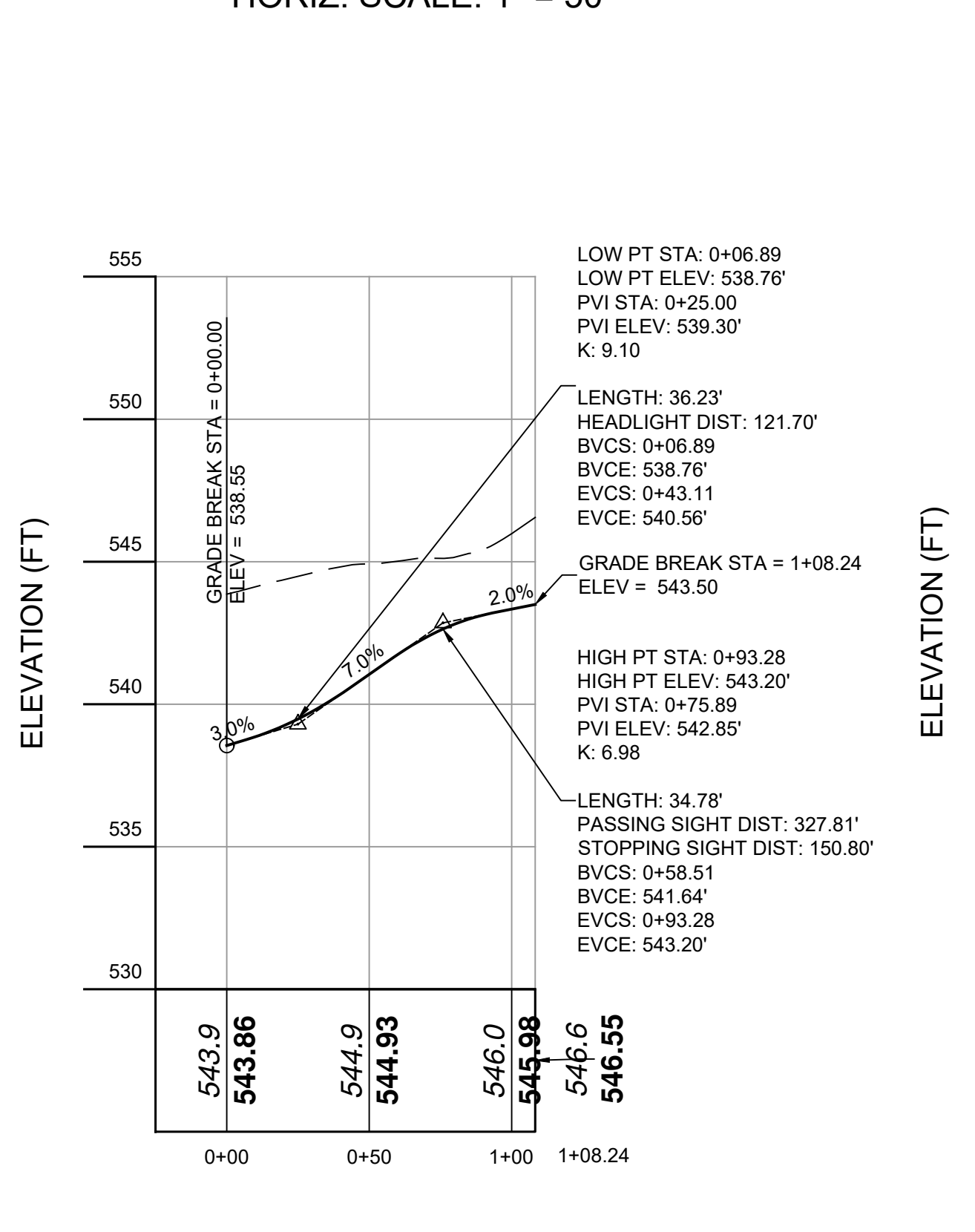
DISTANCE ALONG BASELINE (FT)

Lot 6  
VERT. SCALE: 1" = 5  
HORIZ. SCALE: 1" = 50



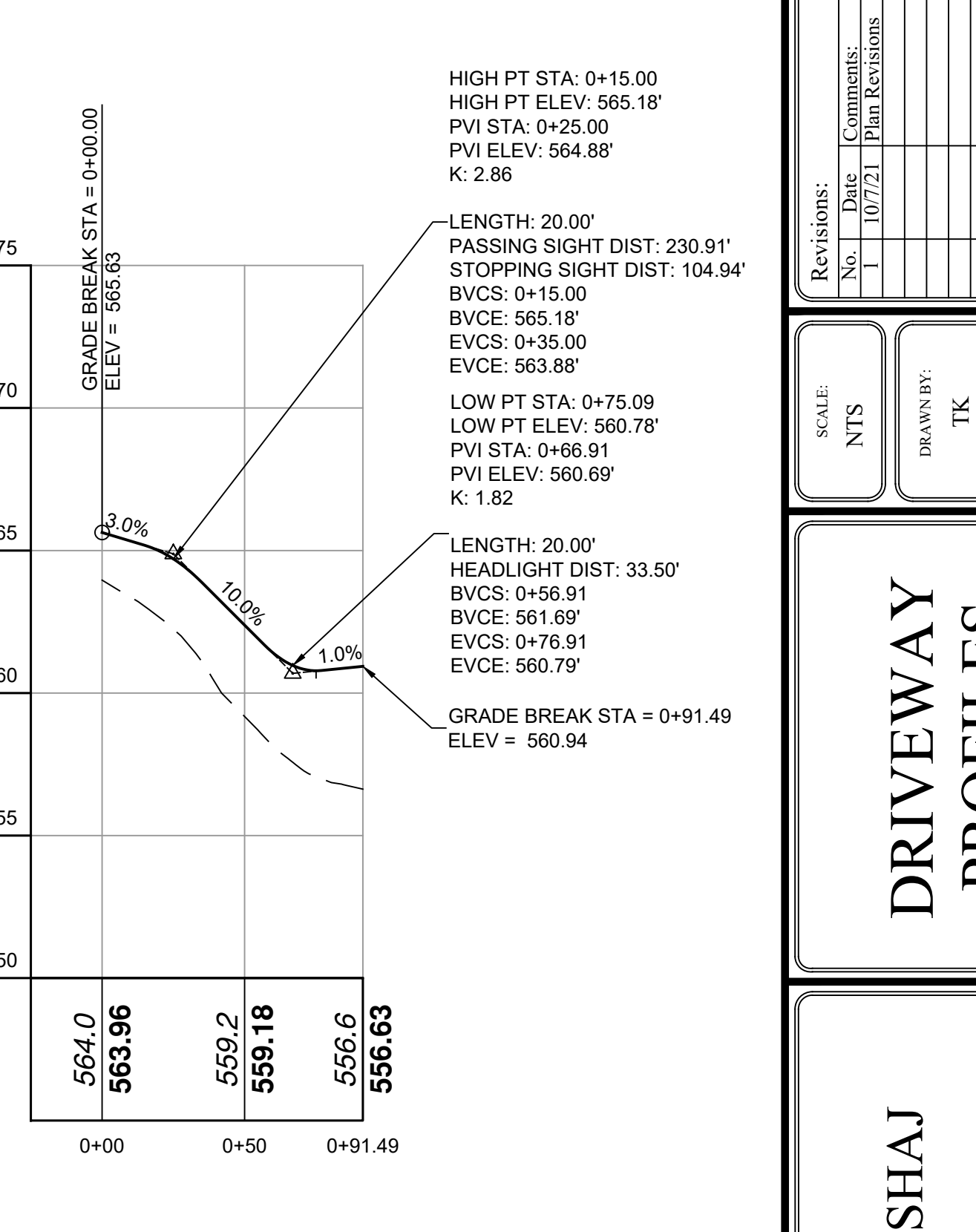
DISTANCE ALONG BASELINE (FT)

Lot 7  
VERT. SCALE: 1" = 5  
HORIZ. SCALE: 1" = 50



DISTANCE ALONG BASELINE (FT)

Lot 8  
VERT. SCALE: 1" = 5  
HORIZ. SCALE: 1" = 50



DISTANCE ALONG BASELINE (FT)

Lot 9  
VERT. SCALE: 1" = 5  
HORIZ. SCALE: 1" = 50

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Engineer: Joseph A. Raimondi, P.E.  
NYS Lic. No. 64431

Revisions:	No.	Date	Comments
		10/7/21	Plan Revisions

SCALE: NTS

DRAWN BY: TK

DATE: 5/7/21

## DRIVEWAY PROFILES

SITE PLAN PREPARED FOR

NIKOLLA GRISHAJ

Westchester County, New York

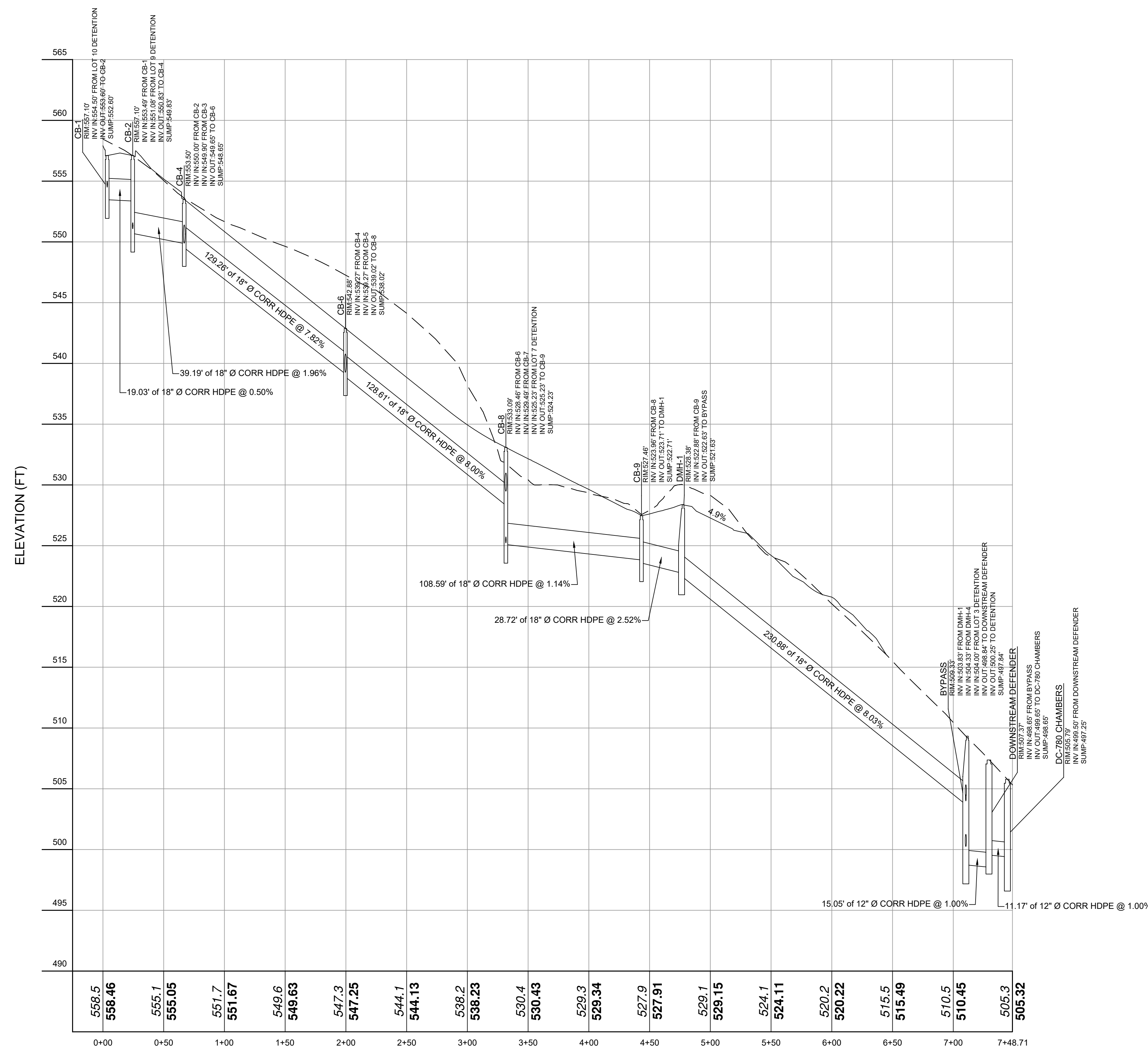
3319 STONY STREET

Town of Yorktown

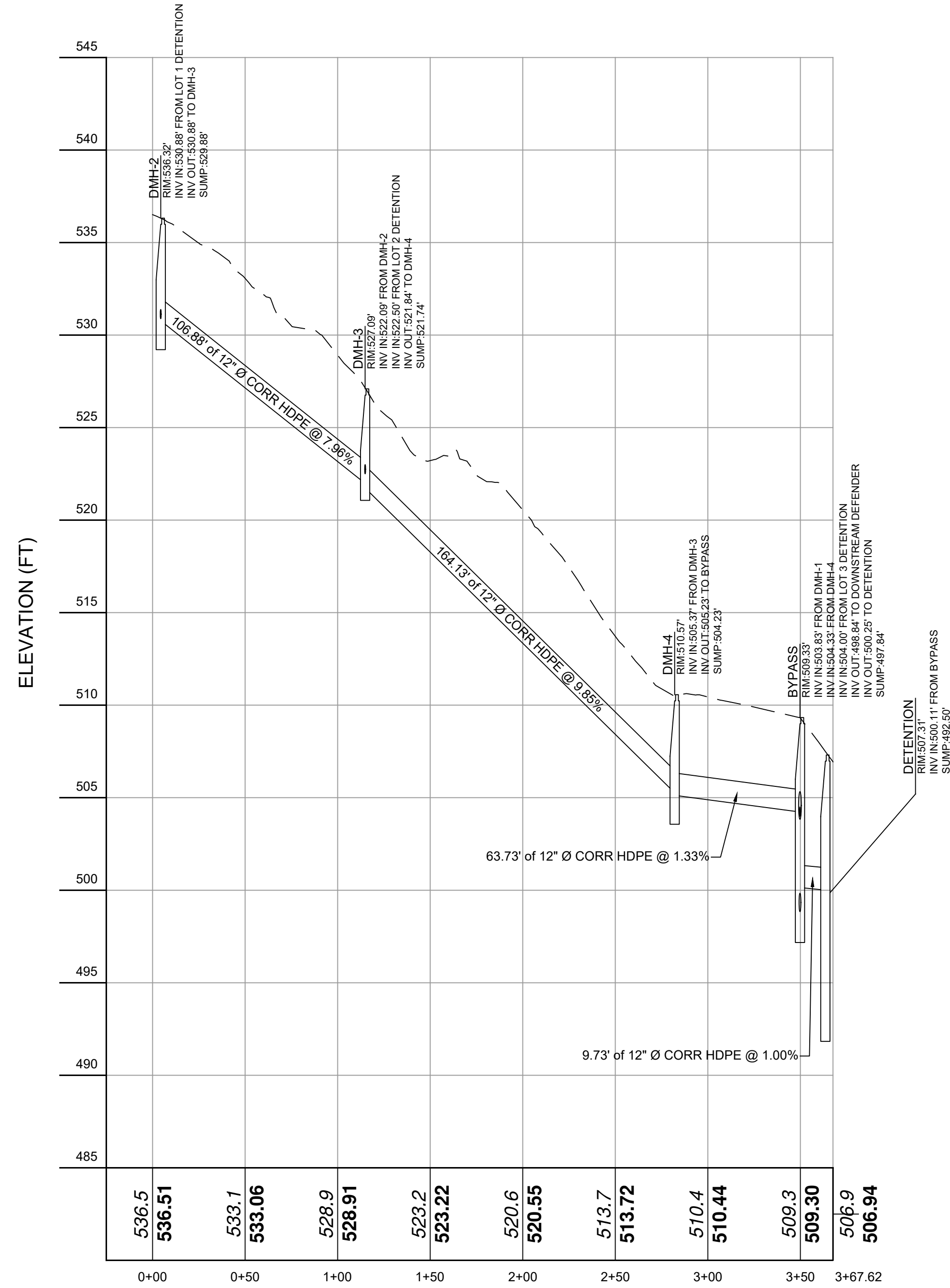
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6 of 17

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DISTANCE ALONG BASELINE (FT)  
 CB-1 TO TREATMENT  
 VERT. SCALE: 1" = 5  
 HORIZ. SCALE: 1" = 50



DISTANCE ALONG BASELINE (FT)  
 DMH-2 TO DETENTION  
 VERT. SCALE: 1" = 5  
 HORIZ. SCALE: 1" = 50

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Engineer: Joseph C. Kimb, P.E.  
 License No. 64431

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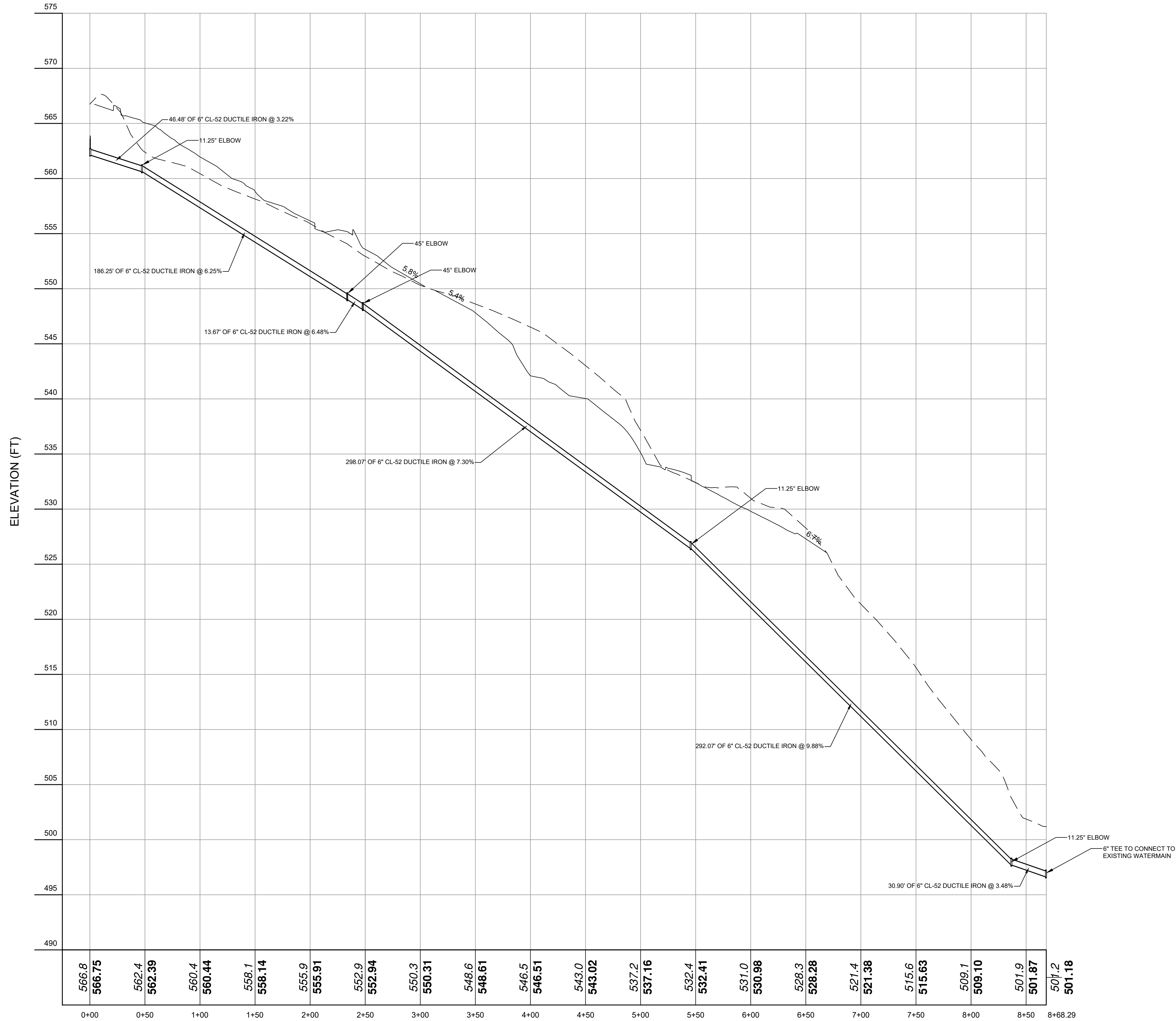
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 DATE: 5/7/21

DRAINAGE  
PROFILES

**NIKOLLA GRISHAJ**  
 3319 STONY STREET  
 Town of Yorktown Westchester County, New York

Sheet 7 of 17

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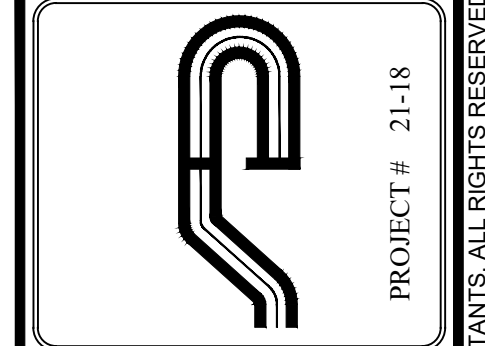


**WATERMAIN**  
 VERT. SCALE: 1" = 5  
 HORIZ. SCALE: 1" = 50

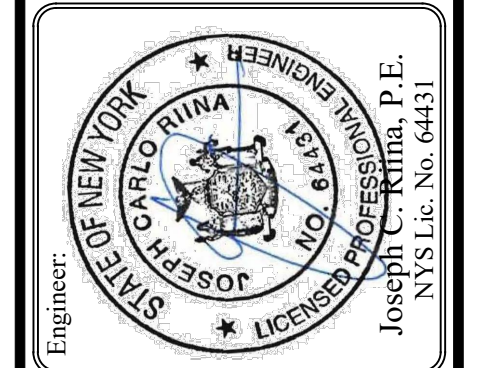
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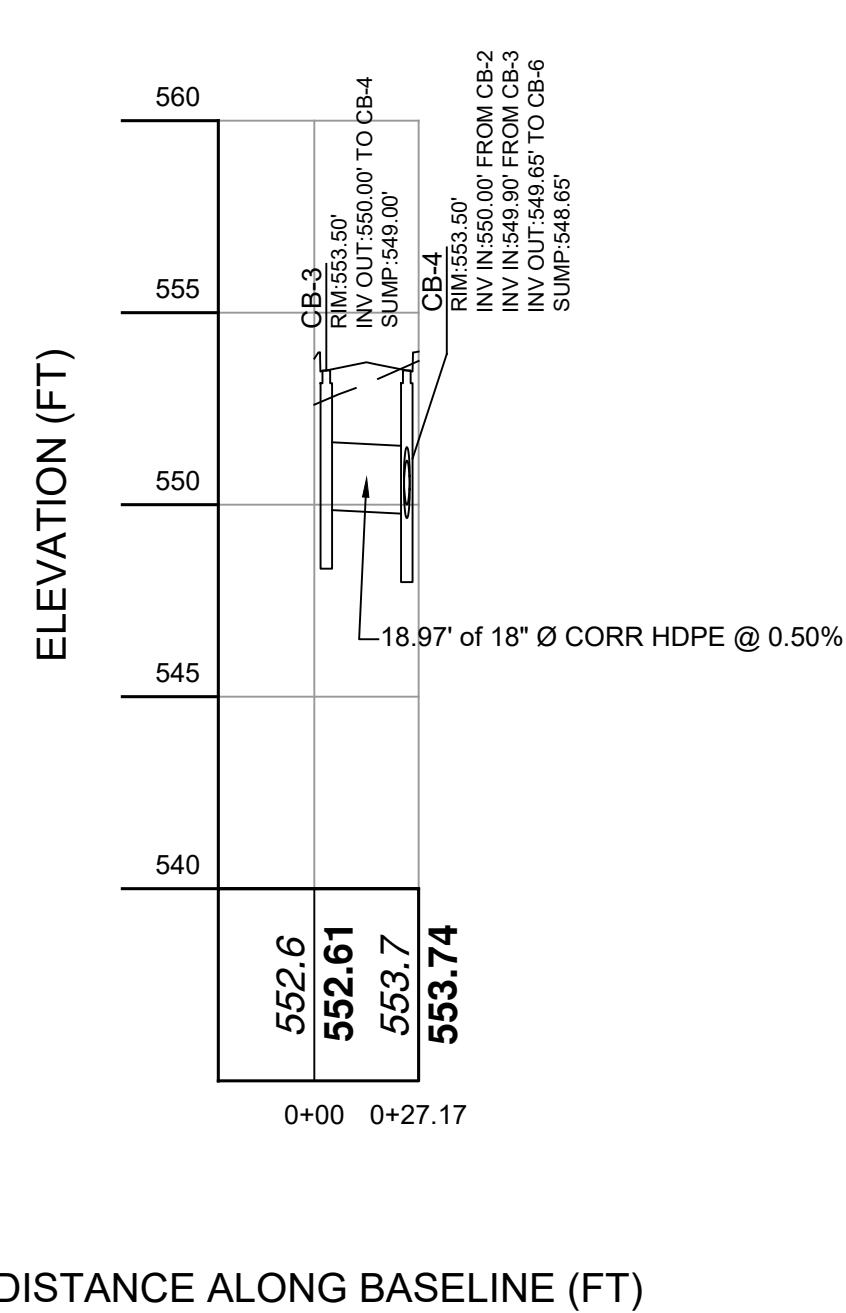
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SCALE: NTS  
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 DATE: 5/7/21

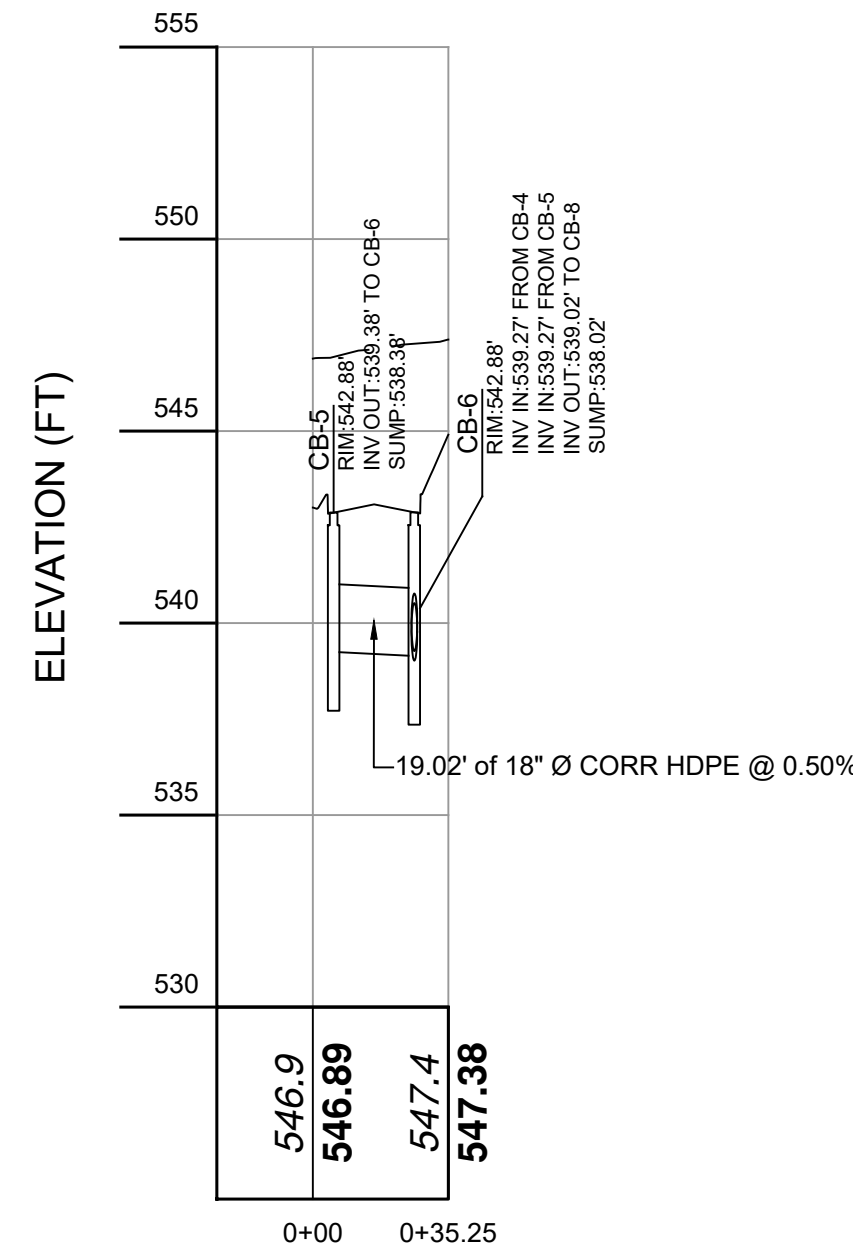
## WATERMAIN PROFILES

SITE PLAN PREPARED FOR  
**NIKOLLA GRISHAJ**  
 3319 STONY STREET  
 Town of Yorktown Westchester County, New York

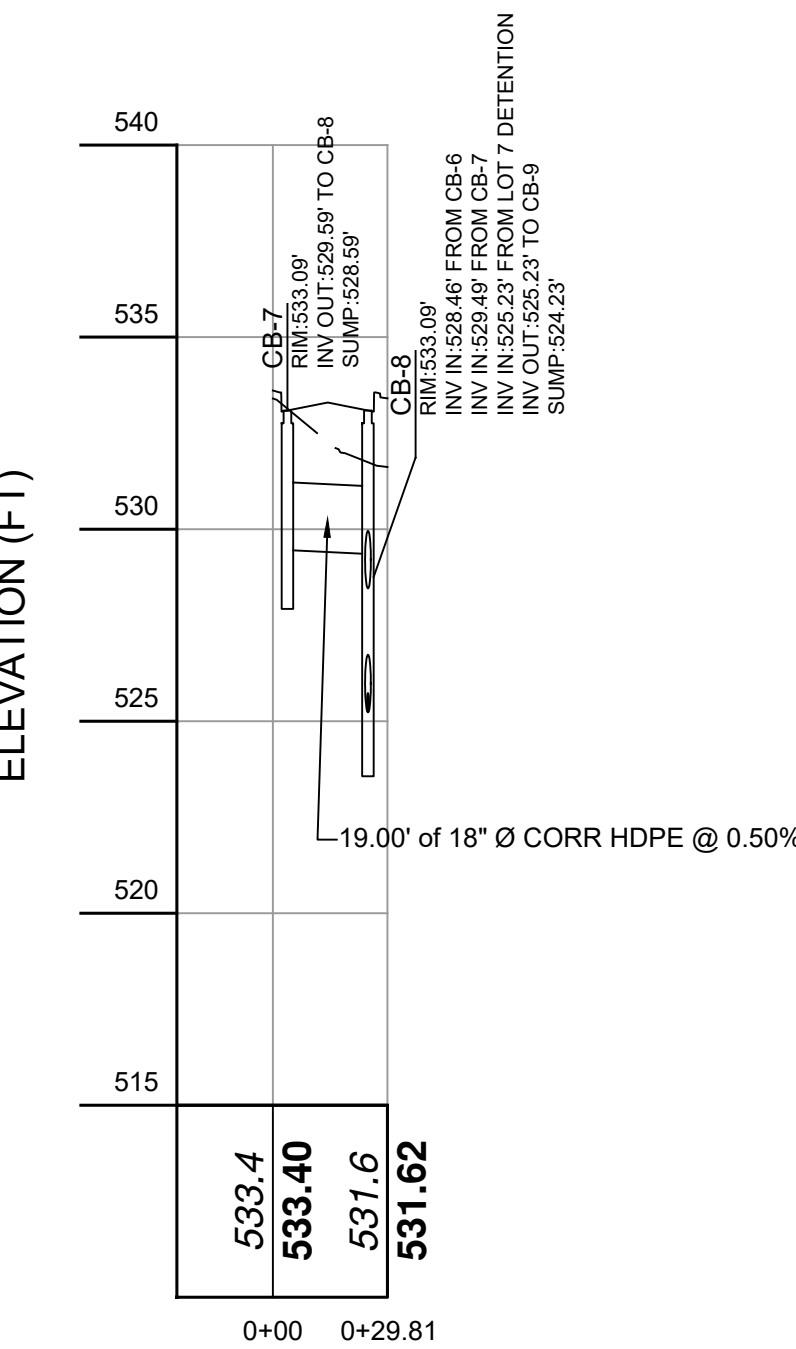
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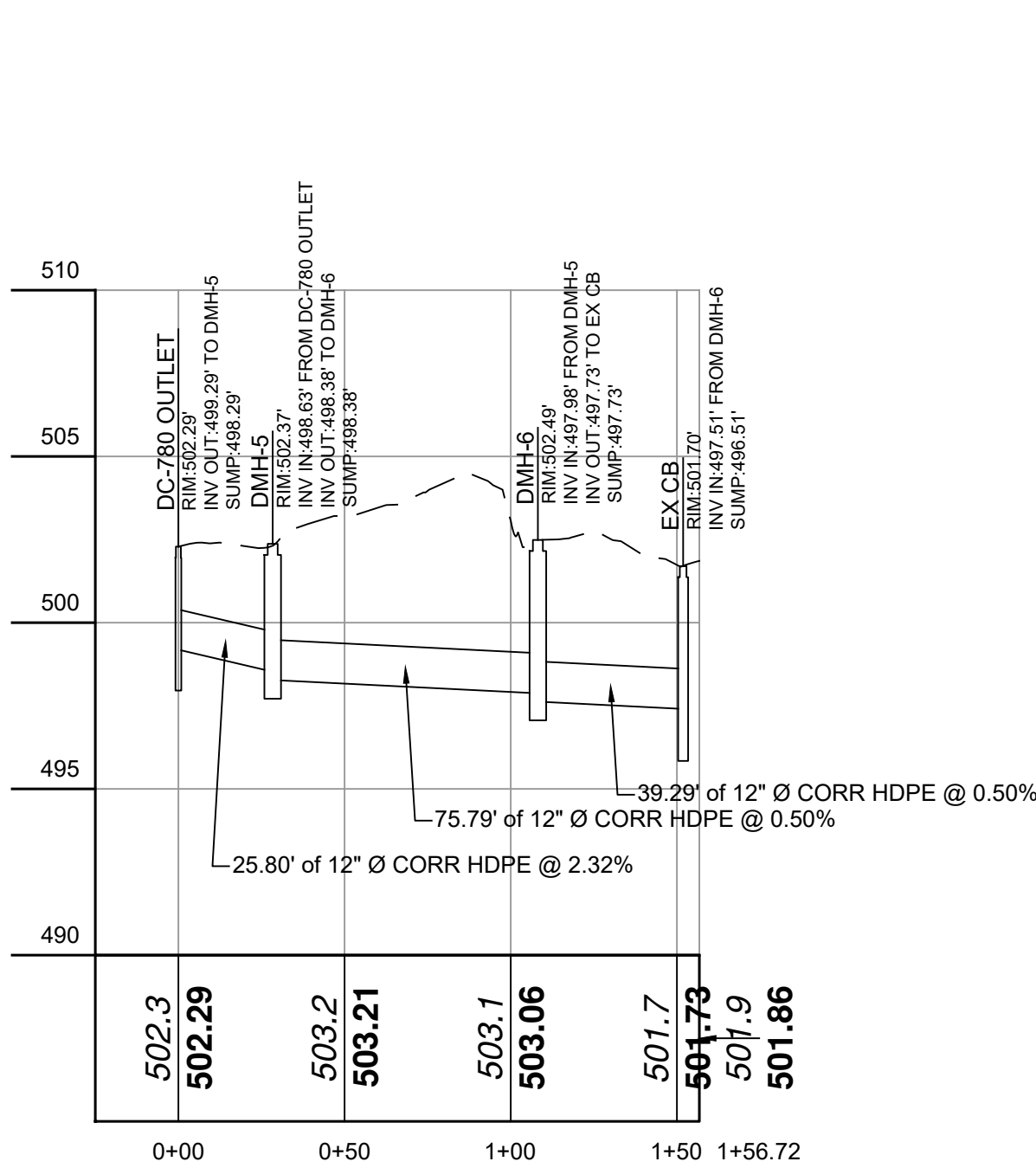
CB-3 TO CB-4  
VERT. SCALE: 1" = 5  
HORIZ. SCALE: 1" = 50



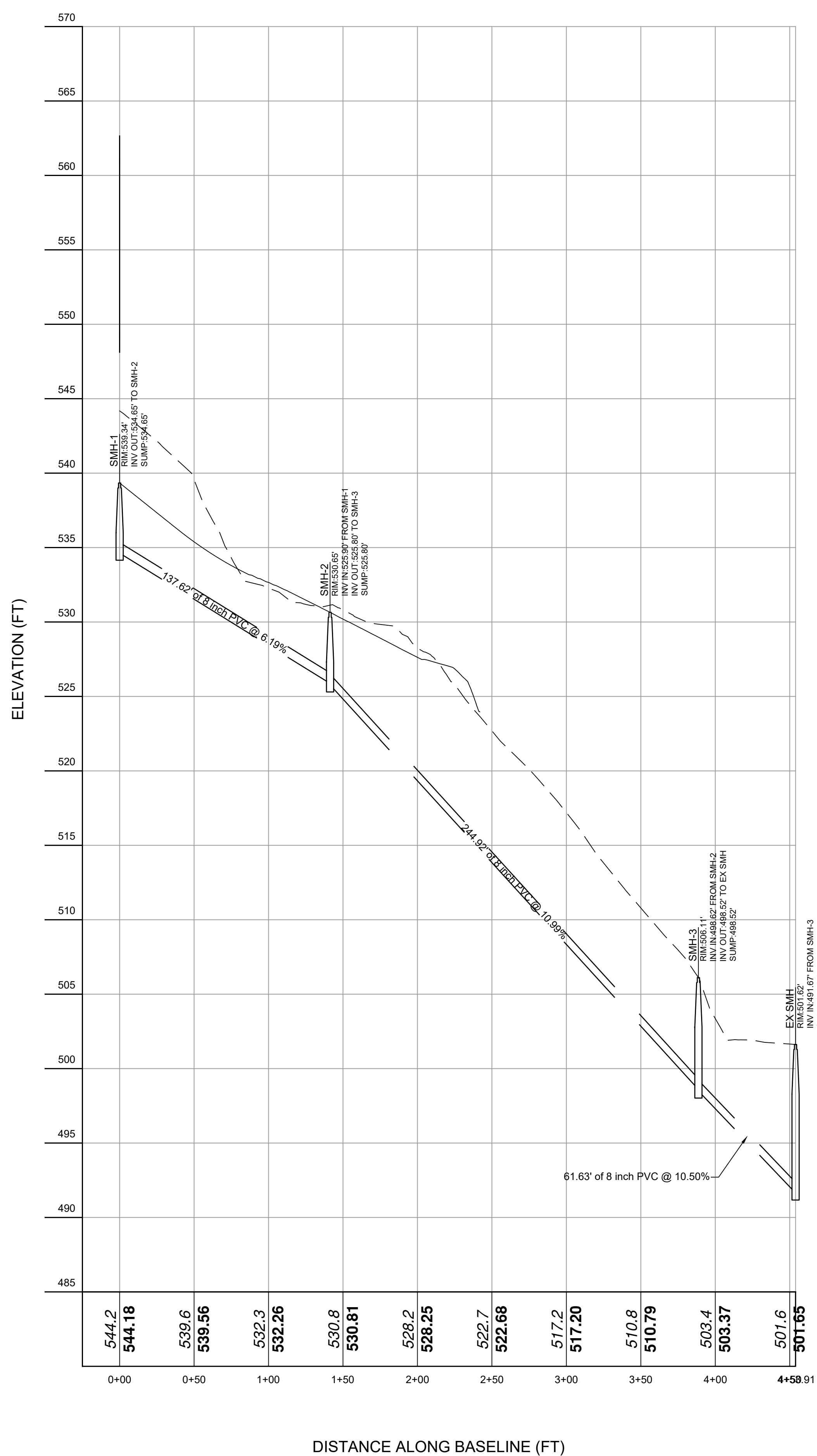
DISTANCE ALONG BASELINE (FT)  
CB-5 TO CB-6  
VERT. SCALE: 1" = 5  
HORIZ. SCALE: 1" = 50



DISTANCE ALONG BASELINE (FT)  
CB-7 TO CB-8  
VERT. SCALE: 1" = 5  
HORIZ. SCALE: 1" = 50



DISTANCE ALONG BASELINE (FT)  
TREATMENT TO EX CB  
VERT. SCALE: 1" = 5  
HORIZ. SCALE: 1" = 50

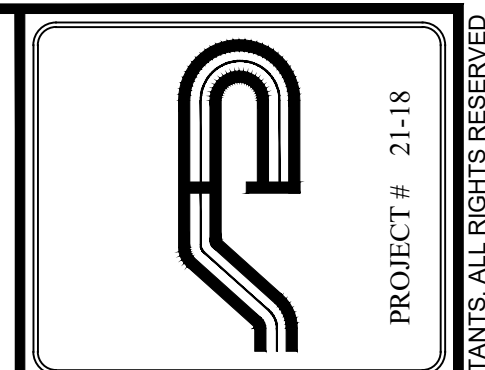


DISTANCE ALONG BASELINE (FT)  
SANITARY SEWER  
VERT. SCALE: 1" = 5  
HORIZ. SCALE: 1" = 50

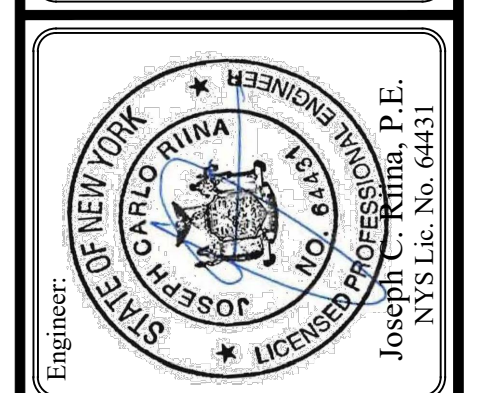
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Revisions:	No.	Date	Comments:
	1	10/7/21	Plan Revisions

SCALE: NTS	DRAWN BY: TK	DATE: 5/7/21
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# UTILITY PROFILES

SITE PLAN  
PREPARED FOR  
**NIKOLLA GRISHAJ**  
3319 STONY STREET  
Town of Yorktown  
Westchester County, New York

PROJECT # 21-18  
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GENERAL NOTES:

- 1. THE ENGINEER WHOSE SEAL APPEARS HEREON HAS NOT BEEN RETAINED FOR SUPERVISION OF CONSTRUCTION...
2. THE ENGINEER WHOSE SEAL APPEARS HEREON IS NOT RESPONSIBLE FOR CONSTRUCTION PRACTICES...
3. THE ENGINEER WHOSE SEAL APPEARS HEREON IS HELD ACCOUNTABLE FOR THE INTEGRITY OF ANY STRUCTURES CONSTRUCTED OR UNDER CONSTRUCTION PRIOR TO THE APPROVAL OF THE PLANS...
4. THE TOWN ENGINEER'S OFFICE AND WATER DISTRICT OFFICE IS TO BE NOTIFIED 24 HOURS BEFORE COMMENCING SITE CONSTRUCTION OR WATER MAIN CONNECTION...
5. ALL WORK IS TO BE IN ACCORDANCE WITH THE TOWN CODE OF PRACTICE AND SPECIFICATIONS...
6. ALL CONDITIONS, LOCATIONS, AND DIMENSIONS SHALL BE FIELD VERIFIED AND THE ENGINEER SHALL BE IMMEDIATELY NOTIFIED OF ANY DISCREPANCIES...
7. ALL CHANGES MADE TO THE PLANS SHALL BE APPROVED BY THE ENGINEER WHOSE SEAL APPEARS ON THESE DRAWINGS...
8. ALL WRITTEN DIMENSIONS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER ANY SCALED DIMENSIONS...
9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CALL IN A "CODE 53" PRIOR TO CONSTRUCTION FOR UNDERGROUND UTILITY LOCATIONS...
10. ANY PROPOSED ELECTRIC AND/OR TELEPHONE SERVICE LINES ARE TO BE PLACED UNDERGROUND...
11. THE DESIGN ENGINEER DISCLAIMS ANY LIABILITY FOR DAMAGE OR LOSS INCURRED DURING OR AFTER CONSTRUCTION...

CONTRACTOR RESPONSIBILITIES:

- 1. ALL WORK ON THE PROJECT SHALL BE PERFORMED IN A WORKMAN LIKE MANNER AND SHALL BE IN ACCORDANCE WITH THE STANDARDS OF THE INDUSTRY...
2. THE OWNER WILL BE THE SOLE JUDGE OF THE ACCEPTABILITY OF THE WORK...
3. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT HIS WORK AND WILL BE HELD RESPONSIBLE FOR CONSEQUENTIAL DAMAGES...
4. THE CONTRACTOR SHALL BE RESPONSIBLE TO THE OWNER FOR THE ACTS AND OMISSIONS OF HIS EMPLOYEE...
5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROPERLY SHORE EXISTING UTILITIES IF REQUIRED BY CONSTRUCTION...
6. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE BUILDING INSPECTOR IN ADVANCE OF HIS WORK...
7. ALL CONDITIONS AND DIMENSIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR...
8. ALL CHANGES MADE TO THIS PLAN SHALL BE APPROVED BY THE ENGINEER WHOSE SEAL APPEARS ON THESE DRAWINGS...
9. ADDITIONS TO THIS DRAWING IS A VIOLATION OF SECTION 7209 (2) OF THE NEW YORK STATE EDUCATION LAW...
10. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK USING HIS BEST SKILL AND ATTENTION...
11. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES...
12. THE CONTRACTOR SHALL BE RESPONSIBLE TO THE OWNER FOR THE ACTS AND OMISSIONS OF HIS EMPLOYEES, SUBCONTRACTORS, AND THEIR AGENTS...
13. THE CONTRACTOR SHALL VERIFY ALL SUBSTRUCTURES ENCOUNTERED DURING CONSTRUCTION...
14. THE CONTRACTOR SHALL SECURE & PAY FOR A BUILDERS RISK POLICY TO COVER THE PERIOD OF CONSTRUCTION...
15. THE ENGINEER & OWNER SHALL BE NAMED AS ADDITIONAL INSURED...
16. ALL CONTRACTORS EMPLOYED AT THE SITE SHALL BE COVERED BY WORKMAN'S COMPENSATION.

GENERAL CONSTRUCTION NOTES:

- 1. BENCH MARKS USING U.S.G.S. DATUM SHALL BE OF SUCH ELEVATION THAT THE GROUND WILL SLOPE AWAY FROM IT IN ALL DIRECTIONS...
2. CONSTRUCTION ACTIVITY SHALL BE LIMITED FROM 8:00 A.M. TO 6 P.M., AND NO CONSTRUCTION ACTIVITY SHALL OCCUR ON SUNDAYS OR LEGAL NEW YORK STATE HOLIDAYS...
3. ANY SOIL THAT IS UNSUITABLE FOR DEVELOPMENT OF BUILDINGS OR ROADWAYS SHALL BE REMOVED FROM AREAS TO BE DEVELOPED...
4. WITHIN THE SITE IN NEW EMBANKMENTS WHERE STRUCTURAL LOADING, I.E. A BUILDING OR ROADWAY, WILL NOT TAKE PLACE...
5. NO TOPSOIL SHALL BE REMOVED FROM THE SITE...
6. NO CRUSHING/PROCESSING IS PERMITTED ON THE SITE WITHOUT PRIOR APPROVAL BY THE TOWN OF YORKTOWN PLANNING BOARD.

GENERAL STORM DRAINAGE & UTILITY NOTES

- 1. ALL UTILITIES, INCLUDING ELECTRIC LINES, TELEPHONE, WATER, SANITARY SEWER LINES, AND STORM SEWER LINES SHALL BE LOCATED UNDERGROUND...
2. LOCATION OF GAS AND WATER VALVES, ELECTRIC AND TELEPHONE POLES ARE TO BE DETERMINED BY PROPER AUTHORITIES...
3. EACH BUILDING CONSTRUCTED HEREON SHALL BE OF SUCH AN ELEVATION THAT THE GROUND WILL SLOPE AWAY FROM IT IN ALL DIRECTIONS...
4. ROOF LEADERS AND FOOTING DRAINS SHALL EMPTY INTO THE STORM DRAINAGE SYSTEM OR DISCHARGE DIRECTLY TO STORMWATER MANAGEMENT SYSTEMS...
5. STORM DRAIN PIPING TO BE HIGH DENSITY POLYETHYLENE AS SHOWN ON THE CONSTRUCTION DRAWINGS...
6. INTERCEPTOR DRAINS ARE TO BE INSTALLED WHERE REQUIRED BY THE TOWN OR PROJECT ENGINEER...
7. ALL EXISTING UNDERGROUND DRAINS ENCOUNTERED DURING CONSTRUCTION OF PROPOSED ROADS ARE TO BE CONNECTED TO PROPOSED DRAINAGE IMPROVEMENTS...
8. PRIOR TO FINAL APPROVAL AND OPERATION OF DRAINAGE SYSTEM, CONTRACTOR SHALL CLEAR ALL ACCUMULATED SEDIMENT AND/OR DEBRIS FROM DRAINAGE STRUCTURES...
9. ALL STRUCTURES SHALL BE SET ONE INCH BELOW PAVEMENT...
10. STREET OPENING PERMIT FROM THE TOWN OF YORKTOWN D.P.W. MAY BE REQUIRED FOR INSTALLATIONS IN PUBLIC ROADS.

WATERMAIN NOTES

I. DISTRIBUTION SYSTEM - WATERMAIN

- A. GENERAL
THE CONTRACTOR SHALL PERFORM THE NECESSARY EXCAVATION, BACKFILLING, CLEARING, GRUBBING, SHEETING, SHORING, DO ALL SHAPING OF TRENCHES, PUMPING AND BAILING, LAYING AND JOINING OF ALL PIPES, PROTECT AND SUPPORT EXISTING STRUCTURES AND REPAIR THEM, IF DAMAGED, AND ALL ELSE NECESSARY TO COMPLETE THE WORK.
THE CONTRACTOR SHALL FURNISH ALL MATERIALS, EQUIPMENT, LABOR, AND TOOLS NECESSARY TO COMPLETE THE WORK IN A SAFE, NEAT, AND WORKMANLIKE MANNER.
B. SITE AND ACCESS CLEARING (WITHIN EASEMENTS)
THE CONTRACTOR SHALL CONFINE ALL CLEARING OPERATIONS TO WITHIN THE IMMEDIATE AREAS THAT ARE ESSENTIAL FOR CONSTRUCTION OF THE WORK.
C. STOCKPILING OF SUITABLE BACKFILL MATERIAL
THE CONTRACTOR SHALL BE PREPARED WHEN EXCAVATING THE TRENCH TO SEPARATE SUITABLE BACKFILL MATERIAL FROM UNSUITABLE MATERIAL FOR USE AS BACKFILL ADJACENT TO THE PIPE.
D. PROTECTION OF EXISTING STRUCTURES AND UTILITIES

SPECIAL PRECAUTIONS SHALL BE TAKEN BY THE CONTRACTOR TO PROTECT OVERHEAD POWER LINES, WATERMANS, GAS MAINS, ELECTRIC AND TELEPHONE CONDUITS, STORM AND SANITARY SEWERS, CULTVERTS, BUILDINGS AND OTHER EXISTING STRUCTURES IN AND NEAR THE EXCAVATION. IN ALL CASES, WHETHER UNDERGROUND STRUCTURES HAVE OR HAVE NOT BEEN DELINEATED, THE TOWN ENGINEER, WATER SUPERINTENDENT, OR AUTHORIZED REPRESENTATIVE ACCEPTS NO RESPONSIBILITY FOR THEIR LOCATION... UNDERGROUND UTILITIES' LOCATES EXISTING UNDERGROUND UTILITIES FREE OF CHARGE.

GUTTERS, SEWERS, DRAINS AND DITCHES SHALL BE KEPT OPEN AT ALL TIMES FOR SURFACE DRAINAGE. NO DAMMING OR PONDING OF WATER IN GUTTERS OR OTHER WATERWAYS WILL BE PERMITTED EXCEPT WHERE STREAM CROSSINGS ARE NECESSARY AND THEN ONLY TO AN EXTENT WHICH THE TOWN ENGINEER, WATER SUPERINTENDENT, OR AUTHORIZED REPRESENTATIVE SHALL CONSIDER NECESSARY. THE CONTRACTOR SHALL NOT DIRECT ANY FLOW OF WATER ACROSS OR OVER PAVEMENTS EXCEPT THROUGH APPROVED PIPES OR PROPERLY CONSTRUCTED TROUGHS OF SUCH SIZES AND LENGTHS AS MAY BE REQUIRED, AND PLACE THE SAME AS DIRECTED. THE GRADING IN THE VICINITY OF TRENCHES SHALL BE CONTROLLED SO THAT THE GROUND SURFACE IS PROPERLY PITCHED TO PREVENT WATER RUNNING IN THE TRENCHING. THE CONTRACTOR SHALL NOT CONDUCT OPERATIONS INVOLVING ANY PUBLIC UTILITY BEFORE HAVING GIVEN WRITTEN NOTICE TO THE COMPANY OR OWNER, OR ITS AGENTS, AND SHALL COOPERATE WITH THE COMPANY'S OR OWNER'S FORCES IN PROTECTING AND PREVENTING DAMAGE TO THE PROPERTY.

THE CONTRACTOR WILL, AT HIS OWN EXPENSE, BE RESPONSIBLE FOR DIRECT OR INDIRECT DAMAGE THAT MAY BE DONE TO ANY UTILITY OR STRUCTURE IN THE PROSECUTION OF HIS WORK. THE LIABILITY OF THE CONTRACTOR IS ABSOLUTE AND IS NOT DEPENDENT UPON ANY QUESTIONS OF NEGLIGENCE ON HIS PART OR ON THE PART OF HIS AGENT, OR EMPLOYEES, AND THE NEGLECT OF THE TOWN ENGINEER, WATER SUPERINTENDENT, OR AUTHORIZED REPRESENTATIVE TO DIRECT THE CONTRACTOR TO TAKE ANY PARTICULAR PRECAUTION OR TO REFRAIN FROM DOING SUCH DAMAGE.

SHOULD THE POSITION OF ANY PIPE, CONDUIT, POLE OR OTHER STRUCTURES, ABOVE OR BELOW THE GROUND, BE SUCH AS TO REQUIRE ITS REMOVAL, REALIGNMENT, OR CHANGE DUE TO WORK TO BE DONE, REALIGNMENT OR CHANGE WILL BE DONE BY OR UNDER SUPERVISION OF THE OWNER OF THE OBSTRUCTIONS. THE CONTRACTOR SHALL UNCOVER AND SUSTAIN THE STRUCTURES, AFTER SUCH REALIGNMENT OR CHANGE.

THE CONTRACTOR SHALL NOT INTERFERE WITH ANY PERSONS, OR WITH THE OWNER IN PROTECTING, REMOVING, CHANGING OR REPLACING THEIR PIPES, CONDUITS, POLES OR OTHER STRUCTURES, BUT HE SHALL SUPPORT SAID STRUCTURES OR THE OWNER TO TAKE ALL SUCH MEASURES AS THEY MAY DEEM NECESSARY OR ADVISABLE FOR THE PURPOSE AFORESAID, AND THE CONTRACTOR SHALL THEREBY BE IN NO WAY RELIEVED OF ANY OF HIS RESPONSIBILITIES.

THE CONTRACTOR SHALL MAKE ALL NECESSARY ARRANGEMENTS WITH THE OWNER OF THE RESPECTIVE UTILITY PRIOR TO RELOCATION OR INTERRUPTION OF SERVICE. ALL WORK NECESSARY FOR THE RELOCATION SHALL BE PERFORMED BY THE CONTRACTOR, OR BY THE OWNER AT THE OWNER'S OPTION, AND TO THE SATISFACTION OF THE OWNER. WHERE SERVICE IS INTERRUPTED, THE CONTRACTOR SHALL COOPERATE IN RESTORING SERVICE PROMPTLY. ALL CHARGES FOR DAMAGES DONE TO UTILITIES SHALL BE PAID BY THE CONTRACTOR.

E. CONSTRUCTION OF ROAD RIGHT-OF-WAY
CONSTRUCTION IN THE ROAD RIGHT-OF-WAY SHALL AT ALL TIMES BE PERFORMED WITH MINIMUM DISTURBANCE TO TRAFFIC WITH SUFFICIENT BARRICADES AND DIRECTION. DETOURS CAN BE INSTITUTED WITH APPROVAL OF THE TOWN ENGINEER, WATER SUPERINTENDENT, OR AUTHORIZED REPRESENTATIVE, OR STATE, COUNTY, OR LOCAL AUTHORITIES. PAVEMENT SHALL BE CUT PRIOR TO REMOVAL. HOLES AND SETTLEMENTS IN THE TRENCHES SHALL BE IMMEDIATELY FILLED TO THE ORIGINAL GRADE ELEVATION WITH THE SPECIFIED MATERIALS.

F. EXCAVATION AND PREPARATION OF TRENCH
THE CONTRACTOR SHALL PROCEED WITH CAUTION IN THE EXCAVATION AND PREPARATION OF THE TRENCH SO THAT THE EXACT LOCATION OF UNDERGROUND STRUCTURES, BOTH KNOWN AND UNKNOWN, MAY BE DETERMINED. THE TRENCH SHALL BE EXCAVATED SO THAT THE PIPE CAN BE LAID TO THE ALIGNMENT AND DEPTH REQUIRED. MINIMUM DEPTH OF COVER FROM SURFACE OF GROUND TO TOP OF PIPE BARREL SHALL BE FOUR FEET (4'). NO TRENCH SHALL BE EXCAVATED MORE THAN FIVE HUNDRED LINEAL FEET (500 LF) IN ADVANCE OF PIPE LAYING UNLESS AUTHORIZED BY THE TOWN ENGINEER, WATER SUPERINTENDENT, OR AUTHORIZED REPRESENTATIVE. THE TRENCH SHALL BE SO BRACED AND DRAINED THAT THE WORKMEN MAY WORK THEREIN SAFELY AND EFFICIENTLY. IT IS ESSENTIAL THAT THE DISCHARGE OF THE TRENCH DEWATERING PUMPS BE CONDUCTED TO NATURAL DRAINAGE CHANNELS OR DRAINS, AS IN ACCORDANCE WITH OSHA REQUIREMENTS.

THE WIDTH OF THE TRENCH SHALL BE OF ADEQUATE SIZE TO PERMIT THE PIPE TO BE LAID AND JOINED PROPERLY, BUT SHALL NOT EXCEED THE SUM OF TWENTY-FOUR INCHES(24") PLUS THE PIPE OUTSIDE DIAMETER, AND THE BACKFILL TO BE PLACED AND COMPACTED AS SPECIFIED.

LEDGE ROCK, BOULDERS AND LARGE STONES SHALL BE REMOVED TO PROVIDE A CLEARANCE OF AT LEAST SIX INCHES (6") BELOW AND ON EACH SIDE OF ALL PIPES AND FITTINGS.

THE TRENCH SHALL BE EXCAVATED TO THE DEPTH REQUIRED SO AS TO PROVIDE A UNIFORM AND CONTINUOUS BEARING AND SUPPORT FOR THE PIPE ON SOLID AND UNDISTURBED GROUND AT EVERY POINT. WHERE THE BOTTOM OF THE TRENCH AT A SUBGRADE IS FOUND TO BE UNSTABLE, OR TO INCLUDE ASHES, CINDERS, ALL TYPES OF REFUSE, VEGETABLE OR OTHER ORGANIC MATERIAL OR LARGE PICES OF FRAGMENTS OR INORGANIC MATERIAL WHICH IN THE JUDGEMENT OF THE TOWN ENGINEER, WATER SUPERINTENDENT, OR AUTHORIZED REPRESENTATIVE SHOULD BE REMOVED. THE CONTRACTOR SHALL EXCAVATE AND REMOVE SUCH UNSUITABLE MATERIAL TO THE WIDTH AND DEPTH ORDERED BY THE TOWN ENGINEER, WATER SUPERINTENDENT, OR AUTHORIZED REPRESENTATIVE.

ANY PART OF THE BOTTOM OF THE TRENCH EXCAVATED BELOW THE SPECIFIED GRADE SHALL BE CORRECTED WITH APPROVED BEDDING MATERIAL, SUCH AS THOROUGHLY COMPACTED CRUSHED STONE, GRAVEL, OR CONCRETE AS DIRECTED BY THE TOWN ENGINEER, WATER SUPERINTENDENT, OR AUTHORIZED REPRESENTATIVE. THE FINISHED SUBGRADE SHALL BE PREPARED ACCURATELY BY MEANS OF HAND TOOLS.

GENERAL WATER MAIN NOTES:

- 1. ALL PROPOSED WATERMAIN MATERIALS, CONSTRUCTION AND INSTALLATION SHALL CONFORM TO ALL APPLICABLE RULES AND REGULATIONS OF THE TOWN OF YORKTOWN WATER DEPARTMENT AND THE WESTCHESTER COUNTY HEALTH DEPARTMENT STANDARDS AND SPECIFICATIONS. CONSTRUCTION MUST BE UNDER THE SUPERVISION OF A LICENSED AND REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF NEW YORK WHO SHALL FURNISH A CERTIFICATE OF CONSTRUCTION COMPLIANCE AND TWO (2) SETS OF AS-BUILT PLANS AFTER THE COMPLETION OF THE PROJECT.
2. THE RECORDS OF THE TOWN OF YORKTOWN INDICATE THAT THERE IS ADEQUATE WATER PRESSURE AND CAPACITY AS REQUIRED TO SERVE THIS PROJECT.
3. ALL BACKFLOW PREVENTION DEVICES ASSOCIATED WITH THE FIRE AND DOMESTIC SERVICES FOR EACH OF THE PROPOSED OFFICE SPACES IN THE TYPE "B" UNITS SHALL BE LOCATED INTERNAL TO THE BUILDING AND SHALL REQUIRE SEPARATE APPROVAL BY THE WESTCHESTER COUNTY DEPARTMENT OF HEALTH.
4. ALL FIRE AND DOMESTIC SERVICE CONNECTIONS FROM THE PROPOSED WATER MAIN SHALL BE INSTALLED WITH WET TAPS AFTER THE CONTRACTOR HAS INSTALLED THE MAIN AND IT HAS BEEN APPROVED BY THE TOWN OF YORKTOWN WATER DEPARTMENT AND THE WESTCHESTER COUNTY DEPARTMENT OF HEALTH.
5. THE CONTRACTOR IS ADVISED THAT BEFORE HE CONNECTS TO THE EXISTING WATER SYSTEM, HE MUST ADVISE AND COORDINATE HIS OPERATIONS WITH THE TOWN OF YORKTOWN WATER DEPARTMENT'S SUPERINTENDENT. MEANS AND METHODS USED TO CONNECT TO THE EXISTING SERVICE SHALL BE APPROVED BY THE TOWN AND SHALL INCLUDE BUT NOT BE LIMITED TO WET TAPS OR OTHERWISE.
6. THE CONTRACTOR IS TO MAINTAIN CONSTANT FLOW AND PRESSURE IN ALL WATER MAINS AT ALL TIMES. IF THE NEED SHOULD ARISE THAT WATER SERVICE IS TO BE INTERRUPTED FOR A SHORT PERIOD, IT MUST BE COORDINATED WITH AND APPROVED BY THE ENGINEER AND THE TOWN OF YORKTOWN SUPERINTENDENT OF WATER.
7. WATER MAINS CROSSING HOUSE SEWERS, STORM SEWERS OR SANITARY SEWERS SHALL BE LAID TO PROVIDE A VERTICAL SEPARATION OF A MINIMUM OF 18" BETWEEN THE BOTTOM OF WATER MAIN AND TOP OF SEWER.
8. WATER MAINS PASSING UNDER HOUSE SEWERS. IN ADDITION, SHALL BE PROTECTED BY PROVIDING A VERTICAL SEPARATION OF 18" MINIMUM FROM THE BOTTOM OF THE SEWER TO THE TOP OF THE WATER MAIN AND ADEQUATE STRUCTURAL SUPPORT FOR THE SEWER TO PREVENT EXCESSIVE DEFLECTION OF THE JOINTS AND THE SEWER SETTLING AND BREAKING THE WATER MAIN. IN ADDITION THE LENGTH OF WATER PIPE IS TO BE CENTERED AT THE POINT OF CROSSING SO THAT THE JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE SEWER. NO WATER MAIN SHALL PASS THROUGH OR COME IN CONTACT WITH ANY PART OF A SEWER OR SEWER MANHOLE.
9. THE COVER OVER THE TOP OF THE WATER MAIN SHALL BE A MINIMUM OF 4 FEET TO A MAXIMUM OF 5.5 FT.
10. WATER MAINS SHALL BE CLASS 52 DUCTILE IRON PIPES (DIP) TYTON JOINT TYPE AND FITTINGS SHALL BE FACTORY CEMENT LINED CLASS 52. ALL FITTINGS SHALL HAVE MECHANICAL JOINTS AND SHALL BE PRESSURE RATED AT 250 PSI. ALL NECESSARY JOINT MATERIALS SHALL BE FURNISHED. WATER MAINS SHALL BE INSTALLED IN ACCORDANCE WITH AWWA STANDARDS, LATEST REVISION.
11. ALL GATE VALVES SHALL BE MUELLER RESILIENT WEDGE (TURN LEFT OPEN) TYPE AND SHALL MEET AWWA STANDARDS, LATEST REVISION.
12. ALL SERVICE CONNECTIONS AND SMALL DIAMETER EXTENSIONS SHALL CONFORM TO AWWA C-151.
13. RETAINER GLANDS AND CONCRETE THRUST BLOCKS OR RODS SHALL BE USED AT ALL LOCATIONS WHERE RESTRAINTS EXIST.
14. INSTALLATION AND TESTING OF THE WATER MAIN SHALL BE INSPECTED BY THE WESTCHESTER COUNTY DEPARTMENT OF HEALTH. THE CONTRACTOR SHALL PROVIDE THE HEALTH DEPARTMENT A MINIMUM 48 HOURS NOTICE PRIOR TO ANY PRESSURE/LEAKAGE TESTS AND/OR DISINFECTION AND BACTERIOLOGICAL TESTS PERFORMED ON THE PROPOSED WATER MAIN. THE RESULTS OF THE ABOVE TESTS MUST BE ACCEPTED BY THE WCHD PRIOR TO USE OF THE MAIN.
15. ASBUILT DRAWINGS SHALL SHOW DIMENSIONS BETWEEN ALL VALVE TURNING NUTS AND FINISH GRADE.
16. INSTALLATION, DISINFECTION AND TESTING TO BE WITNESSED AND CERTIFIED BY A LICENSED PROFESSIONAL ENGINEER OR TOWN OF YORKTOWN ENGINEER.
17. ALL HYDRANTS AND VALVES SHALL BE AS MANUFACTURED BY THE MUELLER COMPANY.
18. THE FINAL LOCATIONS OF FIRE HYDRANTS AND SIAMISE CONNECTIONS SHALL BE DETERMINED BY AND COORDINATED WITH THE TOWN OF YORKTOWN FIRE DEPARTMENT.
19. IF, DURING CONSTRUCTION, IT IS FOUND THAT THE REQUIRED SEPARATION OF WATER MAINS, SANITARY SEWERS, STORM SEWERS, AND BUILDING SEWERS CANNOT BE MET, THE DEVELOPER OR HIS AUTHORIZED REPRESENTATIVE SHALL CONTACT THE WESTCHESTER COUNTY DEPARTMENT OF HEALTH. APPROVAL BY THE WCHD IS REQUIRED PRIOR TO ANY FIELD CHANGES THAT WILL AFFECT MINIMUM WATER/SEWER SEPARATION DISTANCES.
20. ALL TYPES OF INSTALLED PIPE SHALL BE PRESSURE TESTED AND LEAKAGE TESTED IN ACCORDANCE WITH THE LATEST EDITION OF AWWA STANDARD C-600.
21. ALL NEW, CLEANED OR REPAIRED WATER MAINS SHALL BE DISINFECTED AND BACTERIOLOGICAL TESTING PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF AWWA STANDARD C-651-05 (EXCEPT FOR SECTION 4.4.2 WHICH IS NOT APPROVABLE), THE SPECIFICATIONS INCLUDE DETAILED PROCEDURES FOR THE ADEQUATE FLUSHING, DISINFECTION, AND MICRO-BIOLOGICAL TESTING OF ALL WATER MAINS.
22. ROAD OPENINGS SHALL BE DONE IN ACCORDANCE WITH CONDITIONS OF PERMIT, AND COORDINATED WITH THE TOWN OF YORKTOWN.
23. PRIOR TO COMPLETION AND PRIOR TO USE, TWO (2) SETS OF AS-BUILT PLANS AND ACCEPTABLE BACTERIOLOGICAL SAMPLE AND WATER MAIN HYDROSTATIC TEST RESULTS MUST BE SUBMITTED ALONG WITH THE DESIGN PROFESSIONAL'S CERTIFICATION OF CONSTRUCTION.

SANITARY SEWER NOTES:

- 1. ALL WORK TO BE DONE IN ACCORDANCE WITH THE CODE OF THE TOWN OF YORKTOWN AND THE REGULATIONS OF THE WESTCHESTER COUNTY DEPARTMENT OF HEALTH.
2. SANITARY MANHOLES/CLEANOUT MANHOLES SHALL BE PRECAST CONCRETE.
3. ALL WORK SHALL BE MANUFACTURED IN ACCORDANCE WITH APPROVED STANDARDS AND SHALL BE SPACED A MAXIMUM DISTANCE OF 300' ON STRAIGHT RUNS AND INSTALLED AT EVERY CHANGE IN ALIGNMENT. MANHOLE POSITIONING SHALL BE AS TO PREVENT THE ENTRANCE OF SURFACE WATER DURING STORMS. MANHOLE RIMS ARE TO BE WATER TIGHT IN AREAS SUBJECT TO POSSIBLE FLOODING CONDITIONS.
4. ALL BUILDING LATERALS TO BE INSTALLED BY PLUMBERS, LICENSED IN THE TOWN OF YORKTOWN ACCORDING TO THE REQUIREMENTS OF THE TOWN OF YORKTOWN.
5. SANITARY SEWER CONSTRUCTION SHALL MEET ALL SEWER CONSTRUCTION SPECIFICATIONS FOR THE TOWN OF YORKTOWN.
6. THE TOWN ENGINEER SHALL BE NOTIFIED 48 HOURS PRIOR TO THE START OF ANY WORK.
7. A CODE 53 SHALL BE CALLED BEFORE THE START OF ANY EXCAVATION WORK.
8. A STREET OPENING PERMIT SHALL BE OBTAINED BY THE CONTRACTOR PRIOR TO ANY WORK BEING STARTED IN PUBLIC ROAD.
9. ALL SEWERS SHALL BE LAID AT LEAST 10 FT HORIZONTALLY FROM ANY EXISTING OR PROPOSED WATER MAIN. THE DISTANCE SHALL BE MEASURED EDGE TO EDGE. IN CASES WHERE IT IS IMPRACTICAL TO MAINTAIN A 10 FOOT SEPARATION, THE WESTCHESTER COUNTY DEPARTMENT OF HEALTH MAY ALLOW DEVIATION ON A CASE-BY-CASE BASIS, IF SUPPORTED BY DATA FROM THE DESIGN ENGINEER.
10. MANHOLE STEPS SHALL BE CAST IRON NEMAHO NO. R-1981-0 OR CAMPBELL FOUNDRY NO. 2588-1 OR POLYPROPYLENE COATED STEEL (SEE SPECIFICATIONS) OR APPROVED EQUAL.
11. UNLESS OTHERWISE SPECIFIED, SANITARY SEWER MANHOLES SHALL HAVE THE LETTERS "SEWER" CAST ON THE COVER.
12. MANHOLE COVERS AND STRUCTURES SHALL MEET OR EXCEED A.S.T.M. AND O.S.H.A. REQUIREMENTS AND MUST BE RATED FOR H-20 LOADING. MANHOLES MUST BE MIN. 48" DIAMETER.
13. ALL SANITARY STRUCTURES SHALL RECEIVE 2 MIL COATS OF BITUMINOUS MATERIAL "INERTOL NO. 49" KOPPERS SUPPER SERVICE BLACK OR APPROVED EQUAL, APPLIED IN ACCORDANCE WITH MANUFACTURERS' SPECIFICATIONS.
14. R-ING JOINTS TO CONFORM TO A.S.T.M. DESIGNATION C-443 LATEST REVISION. JOINTS TO BE MORTARED INSIDE AND OUT USING NON-SHRINKING MORTAR.
15. PRE-CAST MANHOLE SECTIONS TO BE IN ACCORDANCE WITH "PRE-CAST REINFORCED CONCRETE MANHOLE SECTIONS" A.S.T.M. DESIGNATION C-478, LATEST REVISION, MINIMUM COMPRESSIVE STRENGTH TO BE 4000 P.S.I.
22. WHERE SEWER MAIN IS TO BE INSTALLED 10' DEEP OR GREATER, PVC SDR-26 SHALL BE USED.
16. WHEN SEWER IS TO BE INSTALLED IN FILL MATERIAL, THE SUPPORTING FILL IS TO BE COMPACTED TO MINIMUM STANDARD PROCTOR DENSITY OF 95%, AND SHALL BE CERTIFIED TO THE TOWN.
17. WATER MAINS CROSSING HOUSE SEWERS, STORM SEWERS OR SANITARY SEWERS SHALL BE LAID TO PROVIDE A VERTICAL SEPARATION OF A MINIMUM OF 18" BETWEEN THE BOTTOM OF WATER MAIN AND TOP OF SEWER. IN ADDITION, ADEQUATE STRUCTURAL SUPPORT SHALL BE PROVIDED FOR THE SEWER TO PREVENT EXCESSIVE DEFLECTION OF THE JOINTS AND THE SEWER SETTLING AND BREAKING THE WATER MAIN. IN ADDITION THE LENGTH OF WATER PIPE IS TO BE CENTERED AT THE POINT OF CROSSING SO THAT THE JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE SEWER. NO WATER MAIN SHALL PASS THROUGH OR COME IN CONTACT WITH ANY PART OF A SEWER OR SEWER MANHOLE.
18. MANHOLES AND SANITARY SEWER LINES SHALL BE TESTED TO CONFORM WITH WESTCHESTER COUNTY DEPARTMENT OF HEALTH RULES AND REGULATIONS AND AS PER SANITARY SEWER TESTING NOTES BELOW.
19. THE WESTCHESTER COUNTY DEPARTMENT OF HEALTH SHALL BE PROVIDED A 48 HOUR NOTICE PRIOR TO THE TESTING OF THE INSTALLED UTILITIES TO ALLOW WITNESSING OF TESTING BY THE DEPARTMENT.
20. ALL INSTALLATIONS AND TESTING SHALL BE IN ACCORDANCE WITH ASTM STANDARDS F-1417, C-1244 AND THE TEN STATES STANDARDS, LATEST VERSION.

SANITARY SEWER TESTING

PROCEDURE AND METHOD OF TESTING - THE TEST LENGTH INTERVALS AND TYPE OF LEAKAGE TEST SHALL BE APPROVED BY THE OWNER'S FIELD REPRESENTATIVE AND SITE ENGINEER. IN THE CASE OF SEWERS LAID ON STEEP GRADES, THE LENGTH OF LINE TO BE TESTED BY EXFILTRATION AT ANY ONE TIME MAY BE LIMITED BY THE MAXIMUM ALLOWABLE INTERNAL PRESSURE ON THE PIPE AND JOINTS AT THE LOWER END OF THE LINE. THE WCHD SHALL BE NOTIFIED 48 HRS IN ADVANCE SO THEY MAY WITNESS THE TESTING DEPENDING ON FIELD CONDITIONS AND/OR DESIRE OF THE CONTRACTOR. THE FOLLOWING TESTS FOR LEAKAGE MAY BE EMPLOYED:

- 1. HYDROSTATIC TEST - THE TEST PERIOD, WHEREIN THE MEASUREMENTS ARE TAKEN SHALL NOT BE LESS THAN FOUR (4) HOURS IN EITHER TYPE OF TEST. THE TOTAL LEAKAGE OF ANY SECTION TESTED SHALL NOT EXCEED THE RATE OF 100 GALLONS PER MILE OF PIPE PER 24 HOURS PER INCH OF NOMINAL PIPE DIAMETER. FOR PURPOSES OF DETERMINING THE MAXIMUM ALLOWABLE LEAKAGE, MANHOLES SHALL BE CONSIDERED AS SECTIONS OF PIPE AND SHALL BE TESTED AT A LEVEL ABOVE THE HIGHEST JOINT PRIOR TO THE CONCRETE/RIM CONNECTION.
(i) INFILTRATION TEST - THIS TEST MAY BE USED ONLY WHEN GROUND WATER LEVELS ARE AT LEAST TWO (2) FEET ABOVE THE TOP OF THE PIPE FOR THE ENTIRE LENGTH OF THE SECTION TO BE TESTED DURING THE ENTIRE PERIOD OF THE TEST. GROUND WATER LEVELS MAY BE MEASURED IN AN OPEN TRENCH OR IN STANDPIPES PREVIOUSLY PLACED IN BACKFILLED TRENCHES DURING THE BACKFILLING OPERATIONS. WHEN STANDPIPES ARE INSTALLED IN THE BACKFILL FOR GROUND WATER MEASUREMENT, THE LOWER ENDS OF THESE SHALL BE SATISFACTORILY EMBEDDED IN A MASS OF CRUSHED STONE OR GRAVEL TO MAINTAIN FREE PERCOLATION AND DRAINAGE. INFILTRATION THROUGH JOINTS SHALL BE MEASURED BY USING A WATERTIGHT WEIR OR ANY OTHER APPROVED DEVICE FOR VOLUMETRIC MEASUREMENT INSTALLED AT THE LOWER END OF THE SECTION UNDER TEST.

- (ii) EXFILTRATION TEST - THIS TEST CONSISTS OF FILLING THE PIPE WITH WATER TO PROVIDE A HEAD OF AT LEAST TWO (2) FEET ABOVE THE TOP OF THE PIPE OR TWO (2) FEET ABOVE GROUND WATER, WHICHEVER IS HIGHER, AT THE HIGHEST POINT OF THE PIPE LINE UNDER TEST, AND THEN MEASURING THE LOSS OF WATER FROM THE LINE BY THE AMOUNT WHICH MUST BE ADDED TO MAINTAIN THE ORIGINAL LEVEL. IN THIS TEST THE LINE MUST REMAIN FILLED WITH WATER FOR AT LEAST TWENTY-FOUR (24) HOURS PRIOR TO THE TAKING OF MEASUREMENTS. EXFILTRATION SHALL BE MEASURED BY THE DROP OF WATER LEVEL IN A CLOSED-END STANDPIPE OR IN ONE OF THE SEWER MANHOLES AVAILABLE FOR CONVENIENT MEASURING.

WHEN A STANDPIPE AND PLUG ARRANGEMENT IS USED IN THE UPPER MANHOLE OF A LINE UNDER TEST, THERE MUST BE SOME POSITIVE METHOD OF RELEASING ENTRAPPED AIR IN THE SEWER PRIOR TO TAKING MEASUREMENTS.

- 2. VACUUM TESTING OF MANHOLES - TESTED AS PER ASTM STANDARD - C-1244 THIS TEST METHOD IS ONLY APPLICABLE TO PRECAST CONCRETE MANHOLES. ALL LIFTING HOLES AND EXTERIOR JOINTS SHALL BE FILLED AND POINTED WITH AN APPROVED NON-SHRINKING MORTAR. NO STANDING WATER SHALL BE ALLOWED IN THE MANHOLE EXCAVATION WHICH MAY AFFECT THE ACCURACY OF THE TEST. ALL PIPES AND OTHER OPENINGS INTO THE MANHOLE SHALL BE SUITABLY PLUGGED IN SUCH A MANNER AS TO PREVENT DISPLACEMENT OF THE PLUGS WHILE THE VACUUM IS DRAWN. INSTALLATION AND OPERATION OF THE VACUUM EQUIPMENT AND INDICATING DEVICES SHALL BE IN ACCORDANCE WITH EQUIPMENT SPECIFICATIONS AND INSTRUCTIONS PROVIDED BY THE MANUFACTURER.

THE TEST HEAD MAY BE PLACED IN THE CONE SECTION OF THE MANHOLE. THE RIM-CONE JOINT IS NOT USUALLY TESTED. A VACUUM OF 10 INCHES OF MERCURY SHALL BE DRAWN. THE TIME FOR THE VACUUM TO DROP TO 9 INCHES OF MERCURY SHALL BE RECORDED. ACCEPTANCE FOR 4 FT. DIAMETER MANHOLES SHALL BE DEFINED AS WHEN THE TIME TO DROP TO 9 INCHES OF MERCURY MEETS OR EXCEEDS THE FOLLOWING:

Table with 2 columns: SIZE (INCHES) and TIME (MIN./100 FT.). Rows for 4, 6, 8, 10, 12 inch manholes.

- 3. LOW-PRESSURE AIR TEST OF PIPE LINES - TESTED AS PER ASTM STANDARD F-1417 PLUG ALL OPENINGS IN THE TEST SECTION. ADD AIR UNTIL THE INTERNAL PRESSURE OF THE LINE IS RAISED TO APPROXIMATELY 4.0 PSI. AFTER THIS PRESSURE IS REACHED ALLOW THE PRESSURE TO STABILIZE. THE PRESSURE WILL NORMALLY DROP AS THE AIR TEMPERATURE STABILIZES. THIS USUALLY TAKES 2 TO 5 MIN. DEPENDING ON THE PIPE SIZE. THE PRESSURE MAY BE REDUCED TO 3.5 PSI BEFORE STARTING THE TEST.

WHEN THE PRESSURE HAS STABILIZED AND IS AT OR ABOVE THE STARTING TEST PRESSURE OF 3.5 PSI, START THE TEST. IF THE PRESSURE DROPS MORE THAN 1.0 PSI DURING THE TEST TIME, THE LINE IS PRESUMED TO HAVE FAILED THE TEST. IF A 1.0-PSI DROP DOES NOT OCCUR WITHIN THE TEST TIME, THE LINE HAS PASSED THE TEST.

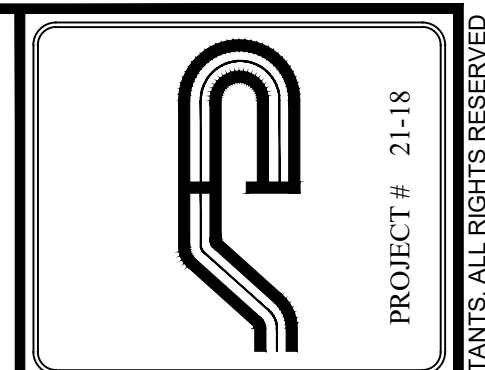
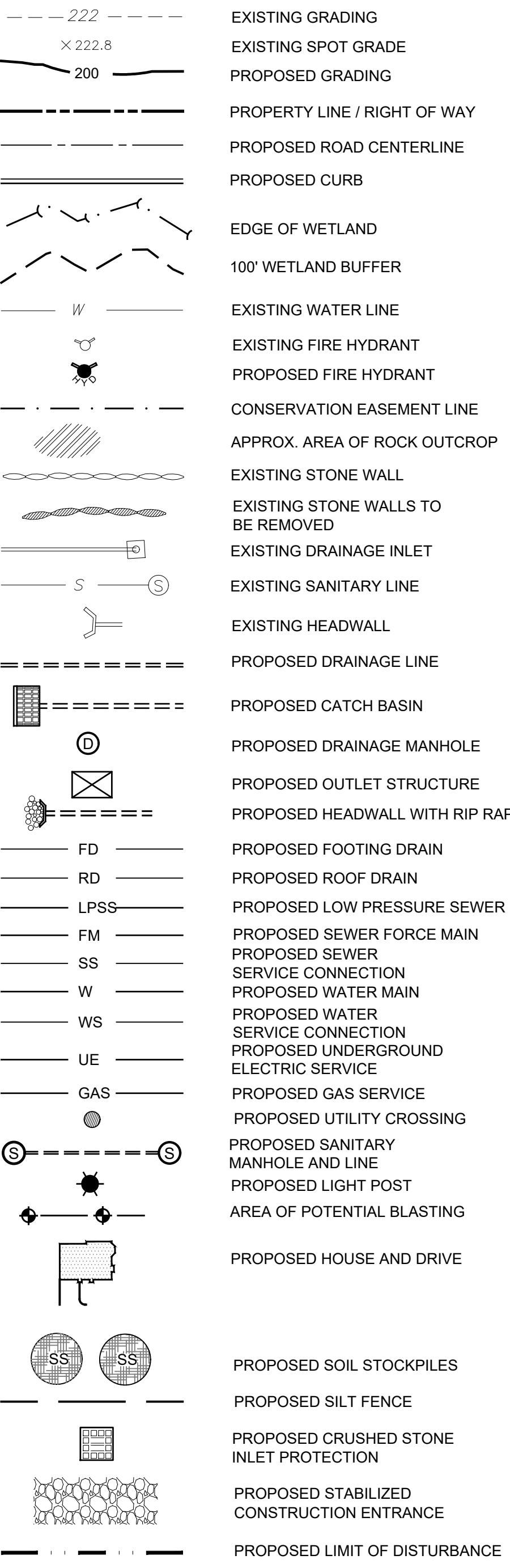
TEST TIMES ARE FOR A 1.0 PSI PRESSURE DROP FROM 3.5 TO 2.5 PSI. IF THE SECTION OF LINE TO BE TESTED INCLUDES MORE THAN ONE PIPE SIZE, CALCULATE THE TEST TIME FOR EACH SIZE AND ADD THE TEST TIMES TO ARRIVE AT THE TOTAL TEST TIME FOR THE SECTION. MINIMUM TEST TIMES FOR VARIOUS PIPE SIZES IN INCHES ARE AS FOLLOWS:

Table with 2 columns: SIZE (INCHES) and TIME (MIN./100 FT.). Rows for 4, 6, 8, 10, 12 inch pipes.

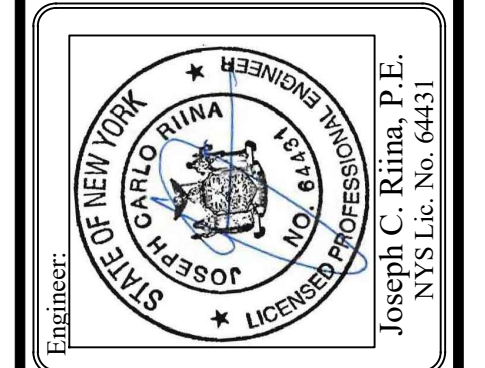
- 4. DEFLECTION TESTING OF PIPES - IN ACCORDANCE WITH THE TEN STATES "RECOMMENDED STANDARDS FOR WASTEWATER FACILITIES -SECTION 33.85"-LATEST EDITION.

- A. DEFLECTION TESTS SHALL BE PERFORMED ON ALL FLEXIBLE PIPE. THE TEST SHALL BE CONDUCTED AFTER THE FINAL BACKFILL HAS BEEN IN PLACE AT LEAST 30 DAYS TO PERMIT STABILIZATION OF THE SOIL-PIPE SYSTEM.
B. NO PIPE SHALL EXCEED A DEFLECTION OF 5 PERCENT. IF DEFLECTION EXCEEDS 5 PERCENT, THE PIPE SHALL BE EXCAVATED. REPLACEMENT OR CORRECTION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH REQUIREMENTS IN THE APPROVED SPECIFICATIONS.
C. THE RIGID BALL OR MANDREL SPECIFIED FOR THE DEFLECTION TEST SHALL HAVE A DIAMETER NOT LESS THAN 95 PERCENT OF THE BASE INSIDE DIAMETER OR AVERAGE INSIDE DIAMETER OF THE PIPE DEPENDING ON WHICH IS USED IN THE ASTM SPECIFICATION, INCLUDING THE APPENDIX, TO WHICH THE PIPE IS MANUFACTURED. THE TEST SHALL BE PERFORMED WITHOUT MECHANICAL PULLING DEVICES.

LEGEND



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Revisions table with columns: No., Date, Comments, Plan Revisions.

Scale: NTS, Drawn by: TK, Date: 5/7/21

NOTES

SITE PLAN PREPARED FOR NIKOLLA GRISHAJ
3319 STONY STREET
Westchester County, New York
Town of Yorktown

E:\2021\21-18 GRISHAJ - STONY STREET\ENGINEERING\CADD\21-18 GRISHAJ - STONY STREET\TITLE DETAILS\21-18-21.DWG

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CONSTRUCTION SEQUENCE:

GENERAL SEQUENCE: THE GENERAL SEQUENCE APPLIES TO THE START OF ALL PHASES OF THE PROJECT. THE REQUIREMENTS IN SUCH SHALL BE APPLIED AS APPROPRIATE IN THAT PHASE AND SHALL BE ASSUMED IN PLACE PRIOR TO THE START OF THE WORK OUTLINED IN THE SEQUENCE FOR EACH PHASE.

- 1. 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 BUILDINGS, LIMITS OF DISTURBANCE, UTILITY LINES, AND STORMWATER PRACTICES. STORMWATER PRACTICES SHALL BE FENCED OFF TO PREVENT DISTURBANCE TO THE UNDERLYING SOILS.
2. PRIOR TO THE START OF THE PROJECT, 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 EROSION AND SEDIMENT CONTROL (E&S) PLAN AND DETAILS, THE DESIGN ENGINEER, THE ENGINEER RESPONSIBLE FOR E&S MONITORING DURING CONSTRUCTION, TOWN REPRESENTATIVES FROM THE ENGINEERING DEPARTMENT AND CODE ENFORCEMENT.
3. CUT AND CLEAR TREES WITHIN THE PHASE LIMITS AS NECESSARY FOR THE AREAS TO BE DISTURBED. INSTALL TREE PROTECTIVE MEASURE AT MARKED LOCATIONS ON E&S PLAN.
4. 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, DIVERSION SWALES, SEDIMENT TRAPS, CONSTRUCTION FENCE, ETC. THIS SEQUENCE MUST BE FOLLOWED TO INSURE PROPER IMPLEMENTATION OF THE EROSION AND SEDIMENT CONTROL PLAN (E&S) AND STORMWATER POLLUTION PREVENTION PLAN (SWPPP).
5. 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).
6. REMOVE EXISTING VEGETATIVE COVER, CUT AND CLEAR TREES, GRUB, REMOVE STUMPS AND OTHER SURFACE FEATURES IN THE LIMIT OF CONSTRUCTION. 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.

PHASE I: PROJECT INFRASTRUCTURE

- 1. ESTABLISH MAIN ROAD ENTRANCE AND INSTALL THE STABILIZED CONSTRUCTION ENTRANCE.
2. CLEAR THE AREA FOR THE PROPOSED ROAD AND THE TO THE EXTENTS SHOWN ON THE PLAN. INSTALL PERIMETER EROSION CONTROL PRACTICES. SILT FENCING SHALL BE INSTALLED AT THE BASE OF SLOPES PARALLEL TO CONTOURS AS SHOWN ON THE PLAN.
3. BEGIN INSTALLATION OF THE DRAINAGE SYSTEM. DO NOT CONNECT THE OUTLET TO THE INFILTRATION SYSTEM FROM THE BYPASS STRUCTURE.
4. BEGIN EXCAVATION FOR THE ROUGH GRADE OF THE PROPOSED ROADWAY AND THE PROPOSED INFILTRATION BASIN TO THE EXTENTS SHOWN ON THE PLANS. CLEARING SHALL ONLY OCCUR WITHIN THE LIMITS OF DISTURBANCE FOR PHASE 1. ESTABLISH THE ELEVATION FOR INSTALLATION OF ROAD BASE. EROSION CONTROL MEASURES SHALL BE INSTALLED SIMULTANEOUSLY WITH CLEARING AND GRADING. WHEN COMPLETED INSTALL EROSION BLANKETS ON SLOPES EXCEEDED 3H:1V. INSTALL WATER BARS ALONG AS SHOWN ON THE PLANS.
5. INSTALL WATER MAIN MAIN AND CONNECT TO THE EXISTING MAIN IN STONY STREET AND SOUTH SHELLEY STREET. FOR EACH SERVICE CONNECTION EXTEND SERVICE AT LEAST 5' BEYOND THE EDGE OF PAVEMENT AND INSTALL CURB BOX. SERVICE CONNECTIONS SHALL CONTINUE FROM THE CURB BOX DURING THE INDIVIDUAL LOT CONSTRUCTION.
6. INSTALL SEWER MAIN AND CONNECT TO THE MANHOLE STONY STREET. FOR EACH SERVICE CONNECTION EXTEND SERVICE AT LEAST 5' BEYOND THE EDGE OF PAVEMENT AND CAP THE SERVICE LINE. SERVICE CONNECTIONS SHALL CONTINUE FROM THE CAP DURING THE INDIVIDUAL LOT CONSTRUCTION.
7. UPON COMPLETION OF THE DRAINAGE AND UTILITIES, INSTALL THE ASPHALT PAVEMENT BASE COURSE OVER THE ROADWAY AND DRIVEWAY. BACKFILL TO GRADE, PLACE FINAL SOIL TOPPING AND PUT IN PLACE PERMANENT VEGETATIVE COVER OVER ALL DISTURBED AREAS, LANDSCAPE BEDS, SLOPES, ETC.
8. DURING SITE CONSTRUCTION MAINTAIN AND RE-ESTABLISH AS REQUIRED EROSION CONTROL AND STABILIZATION MEASURES AS REQUIRED BY THE SITE PLAN AND DETAILS.
9. CONNECT THE INFILTRATION BASIN TO THE UPSTREAM BYPASS STRUCTURE AS SHOWN ON THE PLAN. RUNOFF WILL BE BLOCKED FROM ENTERING THE INFILTRATION BASIN UNTIL FINAL STABILIZATION.
10. ONCE ALL AREAS HAVE ACHIEVED FINAL GRADES, ANY REMAINING STOCKPILED MATERIAL SHALL BE REMOVED FROM THE SITE WITHIN 24 HRS.
11. ONCE SITE STABILIZATION HAS TAKEN PLACE (AN AREA SHALL BE CONSIDERED TO HAVE ACHIEVED FINAL STABILIZATION WHEN IT HAS A MINIMUM UNIFORM 80% PERENNIAL VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED SURFACE EROSION AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING AND OTHER MOVEMENTS), REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROLS. UNPLUG THE DRAINAGE SYSTEM TO ALLOW RUNOFF TO ENTER THE STORMWATER MANAGEMENT SYSTEM. THIS SHALL BE DONE DURING OPTIMUM WEATHER CONDITIONS IF POSSIBLE TO AVOID SEDIMENT TRANSPORT. THIS WORK SHALL NOT OCCUR IF PRECIPITATION IS FORECASTED DURING THE WORK. DURING CONSTRUCTION OF LOTS 1-10, THE INFILTRATION SYSTEM FOR THE ROAD SHALL BE INSPECTED MONTHLY AND AFTER MAJOR STORM EVENTS TO ENSURE SEDIMENT FROM CONSTRUCTION DOES NOT ENTER THE SYSTEM. ANY SEDIMENT DEPOSITS WILL BE REMOVED.
12. UPON STABILIZATION OF ALL DISTURBED AREAS AND APPROVAL FROM THE TOWN REPRESENTATIVE REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROLS.

PHASE 2: INDIVIDUAL LOTS

EACH LOT WILL BE CONSTRUCTED INDIVIDUALLY. THE LOTS MAY BE CONSTRUCTED IN ANY PARTICULAR ORDER. AT NO ONE TIME SHALL MORE THAN 5 ACRES BE DISTURBED.

- 1. PREPARE THE INDIVIDUAL LOT FOR CONSTRUCTION BY INSTALLING ALL TEMPORARY PERIMETER EROSION AND SEDIMENT CONTROLS (E&S) AS SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS.
2. ESTABLISH THE DRIVEWAY ENTRANCE AND INSTALL THE STABILIZED CONSTRUCTION ENTRANCE.
3. REMOVE EXISTING VEGETATIVE COVER AND OTHER SURFACE FEATURES IN THE LIMIT OF CONSTRUCTION ONLY FOR WORK TO BE IMMEDIATELY DONE AND WITHIN THE LIMITS OF PHASE 2. APPLY STABILIZATION MEASURES AS DESCRIBED IN THE GENERAL SEQUENCE. SILT FENCING SHOULD BE INSTALLED AT THE BASE OF SLOPES, AND STOCKPILES SHALL BE PLACED IN THE LOCATIONS SHOWN ON THE PLAN.
4. ROUGH GRADE DRIVEWAY AND INSTALL EROSION AND SEDIMENT CONTROLS AS NEEDED. SLOPES IN EXCESS OF 3:1 SHALL BE STABILIZED USING EROSION BLANKETS.
5. DURING SITE CONSTRUCTION MAINTAIN AND RE-ESTABLISH AS REQUIRED EROSION CONTROL AND STABILIZATION MEASURES AS REQUIRED BY THE SITE PLAN AND DETAILS. REMOVE ANY SEDIMENT TRACK ON ROADWAY FROM CONSTRUCTION VEHICLES AS NEEDED.
6. EXCAVATE FOR AND INSTALL FOUNDATION. UPON COMPLETION OF FOUNDATION WALLS BACKFILL AND GRADE THE REMAINDER OF THE LOT.
7. BEGIN CONSTRUCTION OF THE REMAINDER OF THE BUILDING.
8. ONCE THE NECESSARY CONNECTIONS HAVE BEEN CONSTRUCTED WITHIN THE BUILDING, BEGIN THE INSTALLATION OF THE SEWER AND WATER CONNECTIONS FOR THE LOTS. THESE SHALL ONLY BE CONSTRUCTED IN THE LOCATIONS SHOWN ON THE PLANS.
9. INSTALL ALL UNDERGROUND UTILITIES. INSTALL THE DRAINAGE SYSTEM AND RAIN GARDENS. FOR THE RAIN GARDENS EXCAVATE TO ELEVATION SHOWN ON PLAN AND INSTALL BASE COURSE OF GRAVEL. INSTALL FILTER MEDIA AND OUTLET STRUCTURE AND INSTALL OUTLET PROTECTION AT ALL OUTLETS. BACKFILL AS NEEDED. ENTRY POINTS TO DRAINAGE SYSTEM SHALL BE BLOCKED UNTIL SITE IS STABLE. ALL EROSION CONTROLS SHALL REMAIN IN PLACE.
10. INSTALL BASE COURSE MATERIAL FOR DRIVEWAY.
11. TOPSOIL, RAKE, SEED AND MULCH ALL DISTURBED AREAS.
12. INSTALL WALKS, FENCES, OTHER SITE IMPROVEMENTS AND FINAL PLANTINGS.
13. ONCE SITE STABILIZATION HAS TAKEN PLACE (AN AREA SHALL BE CONSIDERED TO HAVE ACHIEVED FINAL STABILIZATION WHEN IT HAS A MINIMUM UNIFORM 80% PERENNIAL VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED SURFACE EROSION AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING AND OTHER MOVEMENTS), REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROLS. UNPLUG THE DRAINAGE SYSTEM TO ALLOW RUNOFF TO ENTER THE STORMWATER MANAGEMENT SYSTEM. THIS SHALL BE DONE DURING OPTIMUM WEATHER CONDITIONS IF POSSIBLE TO AVOID SEDIMENT TRANSPORT. THIS WORK SHALL NOT OCCUR IF PRECIPITATION IS FORECASTED DURING THE WORK.
14. UPON STABILIZATION OF ALL DISTURBED AREAS AND APPROVAL FROM THE TOWN REPRESENTATIVE REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROLS.

WINTER STABILIZATION NOTES:

IF CONSTRUCTION ACTIVITIES ARE EXPECTED TO EXTEND INTO OR OCCUR DURING THE WINTER SEASON THE CONTRACTOR SHALL ANTICIPATE PROPER STABILIZATION AND SEQUENCING. CONSTRUCTION SHALL BE SEQUENCED SUCH THAT WHEREVER POSSIBLE AREAS OF DISTURBANCE THAT CAN BE COMPLETED AND PERMANENTLY STABILIZED SHALL BE DONE BY APPLYING AND ESTABLISHING PERMANENT VEGETATIVE COVER BEFORE THE FIRST FROST. AREAS SUBJECT TO TEMPORARY DISTURBANCE THAT WILL NOT BE WORKED FOR AN EXTENDED PERIOD OF TIME SHALL BE TREATED WITH TEMPORARY SEED, MULCH, AND/OR EROSION BLANKETS.

THE RESPONSIBLE PARTY DURING AND AFTER CONSTRUCTION IS AS FOLLOWS:

JOHN COLANGELO
1133 WESTCHESTER AVE. SUITE N-006
WHITE PLAINS, NY 10604
347-231-6959

GENERAL EROSION CONTROL NOTES:

- 1. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH ALL SEDIMENT AND EROSION CONTROL PRACTICES. THE SEDIMENT AND EROSION CONTROL PRACTICES ARE TO BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCES, AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED. ROAD SURFACE FLOWS FROM THE SITE SHOULD BE DISSIPATED WITH TRACKING PAD OR APPROPRIATE MEASURES DURING ADJACENT ROAD SHOULDER REGRADING. CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL SOIL EROSION AND SEDIMENTATION CONTROL DEVICES THROUGHOUT THE COURSE OF CONSTRUCTION.
2. CATCH BASIN INLET PROTECTION MUST BE INSTALLED AND OPERATING AT ALL TIMES UNTIL TRIBUTARY AREAS HAVE BEEN STABILIZED. WHEN POSSIBLE FLOWS SHOULD BE STABILIZED BEFORE REACHING INLET PROTECTION STRUCTURE. TIMELY MAINTENANCE OF SEDIMENT CONTROL STRUCTURES IS THE RESPONSIBILITY OF THE CONTRACTOR.
3. ALL STRUCTURES SHALL BE MAINTAINED IN GOOD WORKING ORDER AT ALL TIMES. THE SEDIMENT LEVEL IN ALL SEDIMENT TRAPS SHALL BE CLOSELY MONITORED AND SEDIMENT REMOVED PROMPTLY WHEN MAXIMUM LEVELS ARE REACHED OR AS ORDERED BY THE ENGINEER. ALL SEDIMENT CONTROL STRUCTURES SHALL BE INSPECTED ON A REGULAR BASIS, AND AFTER EACH HEAVY RAIN TO INSURE PROPER OPERATION AS DESIGNED. AN INSPECTION SCHEDULE SHALL BE SET FORTH PRIOR TO THE START OF CONSTRUCTION.
4. THE LOCATIONS AND THE INSTALLATION TIMES OF THE SEDIMENT CAPTURING STANDARDS SHALL BE AS SPECIFIED IN THESE PLANS, AS ORDERED BY THE ENGINEER, AND IN ACCORDANCE WITH THE LATEST EDITION OF THE "NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL" (NYSSESC).
5. ALL TOPSOIL SHALL BE PLACED IN A STABILIZED STOCKPILE FOR REUSE ON THE SITE. ALL STOCKPILE MATERIAL REQUIRED FOR FINAL GRADING AND STORED ON SITE SHALL BE TEMPORARILY SEEDED AND MULCHED WITHIN 7 DAYS. REFER TO SOIL STOCKPILE DETAILS.
6. ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN 7 DAYS AND NOT SUBJECT TO CONSTRUCTION TRAFFIC, SHALL IMMEDIATELY RECEIVE TEMPORARY SEEDING. MULCH SHALL BE USED IF THE SEASON PREVENTS THE ESTABLISHMENT OF A TEMPORARY COVER. DISTURBED AREAS SHALL NOT BE LIMED AND FERTILIZED PRIOR TO TEMPORARY SEEDING.
7. IN AREAS WHERE SOIL DISTURBANCE ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED, THE APPLICATION OF SOIL STABILIZATION MEASURES MUST BE INITIATED BY THE END OF THE NEXT BUSINESS DAY AND COMPLETED WITHIN SEVEN (7) DAYS FROM THE DATE THE CURRENT SOIL DISTURBANCE ACTIVITY CEASED.
8. ALL DISTURBED AREAS WITHIN 500 FEET OF AN INHABITED DWELLING SHALL BE WETTED AS NECESSARY TO PROVIDE DUST CONTROL.
9. THE CONTRACTOR SHALL KEEP THE ROADWAYS WITHIN THE PROJECT CLEAR OF SOIL AND DEBRIS AND IS RESPONSIBLE FOR ANY STREET CLEANING NECESSARY DURING THE COURSE OF THE PROJECT.
10. SEDIMENT AND EROSION CONTROL STRUCTURES SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE DRAINAGE AREA HAS BEEN PROPERLY STABILIZED BY PERMANENT MEASURES.
11. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH CURRENT EDITION OF NYSSESC.
12. ALL REGRADED AREAS MUST BE STABILIZED APPROPRIATELY PRIOR TO ANY ROCK BLASTING, CUTTING, AND/OR FILLING OF SOILS. SPECIAL CARE SHOULD BE TAKEN DURING CONSTRUCTION TO INSURE STABILITY DURING MAINTENANCE AND INTEGRITY OF CONTROL STRUCTURES.
13. ANY SLOPES GRADED AT 3:1 OR GREATER SHALL BE STABILIZED WITH EROSION BLANKETS TO BE STAKED INTO PLACE IN ACCORDANCE WITH THE MANUFACTURERS REQUIREMENTS. EROSION BLANKETS MAY ALSO BE REQUIRED AT THE DISCRETION OF TOWN OFFICIALS OR PROJECT ENGINEER. WHEN STABILIZED BLANKET IS UTILIZED FOR CHANNEL STABILIZATION, PLACE ALL OF THE VOLUME OF SEED MIX PRIOR TO LAYING NET, OR AS RECOMMENDED BY THE MANUFACTURER.
14. TO PREVENT HEAVY CONSTRUCTION EQUIPMENT AND TRUCKS FROM TRACKING SOIL OFF-SITE, CONSTRUCT A PERVIOUS CRUSHED STONE PAD. LOCATE AND CONSTRUCT PADS AS DETAILED IN THESE PLANS.
15. CONTRACTOR IS RESPONSIBLE FOR CONTROLLING DUST BY SPRINKLING EXPOSED SOIL AREAS PERIODICALLY WITH WATER AS REQUIRED. CONTRACTOR TO SUPPLY ALL EQUIPMENT AND WATER.
16. CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION INSPECTIONS AS PER NYSDEC GP-0-15-002 AND TOWN OF YORKTOWN CODE.

MAINTENANCE OF TEMPORARY EROSION AND SEDIMENT CONTROL STRUCTURES:

- N.Y.S.D.E.C. GP-0-15-002 EXPOSURE RESTRICTIONS - STATES THAT ANY EXPOSED EARTHWORK SHALL BE STABILIZED IN ACCORDANCE WITH THE GUIDELINES OF THIS PLAN.
1. TREES AND VEGETATION SHALL BE PROTECTED AT ALL TIMES AS SHOWN ON THE DETAIL DRAWING AND AS DIRECTED BY THE ENGINEER.
2. CARE SHOULD BE TAKEN SO AS NOT TO CHANNEL CONCENTRATED RUNOFF THROUGH THE AREAS OF CONSTRUCTION ACTIVITY ON THE SITE.
3. FILL AND SITE DISTURBANCES SHOULD NOT BE CREATED WHICH CAUSES WATER TO POND OFF SITE OR ON ADJACENT PROPERTIES.
4. RUNOFF FROM LAND DISTURBANCES SHALL NOT BE DISCHARGED OR HAVE THE POTENTIAL TO DISCHARGE OFF SITE WITHOUT FIRST BEING INTERCEPTED BY A CONTROL STRUCTURE, SUCH AS A SEDIMENT TRAP OR SILT FENCE. SEDIMENT SHALL BE REMOVED BEFORE EXCEEDING 50% OF THE RETENTION STRUCTURE'S CAPACITY.
5. FOR FINISHED GRADING, ADEQUATE GRADE SHALL BE PROVIDED SO THAT WATER WILL NOT POND ON LAWNS FOR MORE THAN 24 HOURS AFTER RAINFALL. EXCEPT IN SWALE FLOW AREAS WHICH MAY DRAIN FOR AS LONG AS 48 HOURS AFTER RAINFALL.
6. ALL SWALES AND OTHER AREAS OF CONCENTRATED FLOW SHALL BE PROPERLY STABILIZED WITH TEMPORARY CONTROL MEASURES TO PREVENT EROSION AND SEDIMENT TRAVEL. SURFACE FLOWS OVER CUT AND FILL AREAS SHALL BE STABILIZED AT ALL TIMES.
7. ALL SITES SHALL BE STABILIZED WITH EROSION CONTROL MATERIALS WITHIN 7 DAYS OF FINAL GRADING.
8. TEMPORARY SEDIMENT TRAPPING DEVICES SHALL BE REMOVED FROM THE SITE WITHIN 30 DAYS OF FINAL STABILIZATION.

MAINTENANCE SCHEDULE:

Table with columns: Activity, Daily, Weekly, Monthly, After Rainfall, Necessary to Maintain Function, After Approval of Inspector. Rows include Silt Fence, Stabilized Const. Ent., Sediment Trap, Soil Stockpile, Dewatering Pit, Outlet/Inlet Structures & Protection.

POST CONSTRUCTION MAINTENANCE SCHEDULE:

Table with columns: Control to be Inspected, Inspection Frequency, Maintenance Threshold Criteria, Maintenance Procedure. Rows include Drain Inlets, Infiltration Basin, Downstream Defender, Rain Garden, Swale and Channels.

MAINTENANCE OF PERMANENT CONTROL STRUCTURES DURING CONSTRUCTION:

The stormwater management system and outlet structure shall be inspected on a regular basis and after every rainfall event. Sediment build up shall be removed from the inlet protection regularly to insure detention capacity and proper drainage. Outlet structure shall be free of obstructions. All piping and drain inlets shall be free of obstruction. Any sediment build up shall be removed.

MAINTENANCE OF CONTROLS AFTER CONSTRUCTION:

Controls (including respective outlet structures) should be inspected periodically for the first few months after construction and on an annual basis thereafter. They should also be inspected after major storm events.

DEBRIS AND LITTER REMOVAL:

Twice a year, inspect outlet structure and drain inlets for accumulated debris. Also, remove any accumulations during each mowing operation.

STRUCTURAL REPAIR/REPLACEMENT:

Outlet structure must be inspected twice a year for evidence of structural damage and repaired immediately.

EROSION CONTROL:

Unstable areas tributary to the basin shall immediately be stabilized with vegetation or other appropriate erosion control measures.

SEDIMENT REMOVAL:

Sediment should be removed after it has reached a maximum depth of five inches above the stormwater management system floor.

TOPSOIL:

Existing topsoil will be removed and stored in piles sufficiently as to avoid mixing with other excavation. Stockpiles shall be surrounded by erosion control as outlined on these plans. The furnishing of new topsoil shall be of a better or equal to the following criteria (SS713.01 NYSDOT):

- 1. The pH of the material shall be 5.5 to 7.6.
2. The organic content shall not be less than 2% or more than 70%.
3. Gradation: SIEVE SIZE % PASSING BY WGT.
2 INCH 100
1 INCH 85 TO 100
1/4 INCH 65 TO 100
NO. 200 MESH 20 TO 80

PERMANENT VEGETATIVE COVER:

- 1. Site preparation:
1.1. Install erosion control measures.
1.2. Scarify compacted soil areas.
1.3. Lime as required to pH 6.5.
1.4. Fertilize with 10-6-4 4 lbs/1,000 S.F.
1.5. Incorporate amendments into soil with disc harrow.
2. Seed mixtures for use on swales and cut and fill areas.
MIXTURE LBS./ACRE
ALT. A KENTUCKY BLUE GRASS 20
CREEPING RED FESCUE 28
RYE GRASS OR REDTOP 5
ALT. B CREEPING RED FESCUE 20
REDFOP 2
TALL FESCUE/SMOOTH BLOOMGRASS 20

SEEDING

- 3.1. Prepare seed bed by raking to remove stones, twigs, roots and other foreign material.
3.2. Apply soil amendments and integrate into soil.
3.3. Apply seed uniformly by cyclone seeder culti-packer or hydro-seeder at rate indicated.
3.4. Stabilize seeded areas in drainage swales.
3.5. Irrigate to fully saturate soil layer, but not to dislodge planting soil.
3.6. Seed between April 1st and May 15th or August 15th and October 15th.
3.7. Seeding may occur May 15th and August 15th if adequate irrigation is provided.

TEMPORARY VEGETATIVE COVER:

SITE PREPARATION:

- 1. Install erosion control measures.
2. Scarify areas of compacted soil.
3. Fertilize with 10-10-10 at 400/acre.
4. Lime as required to pH 6.5.

SEED SPECIES:

Table with columns: Mixture, LBS./ACRE. Rows include Rapidly germinating annual ryegrass, Perennial ryegrass, Cereal oats.

SEEDING:

Same as permanent vegetative cover

OWNER / OPERATOR CERTIFICATION

"I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. FURTHER, I HEREBY CERTIFY THAT THE SWPPP MEETS ALL FEDERAL, STATE, AND LOCAL EROSION AND SEDIMENT CONTROL REQUIREMENTS. I AM AWARE THAT FALSE STATEMENTS MADE HEREIN ARE PUNISHABLE AS A CLASS A MISDEMEANOR PURSUANT TO SECTION 210.45 OF THE PENAL LAW."

NAME (PLEASE PRINT): \_\_\_\_\_

TITLE: \_\_\_\_\_

DATE: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

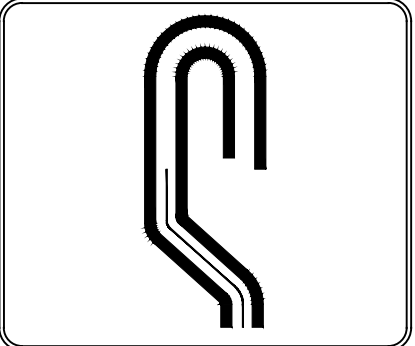
PHONE: \_\_\_\_\_

CONTRACTOR CERTIFICATION STATEMENT

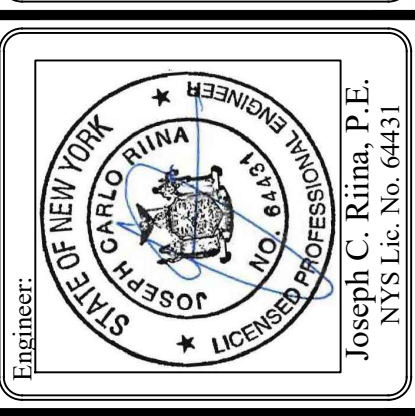
Certification Statement - All contractors and subcontractors as identified in a SWPPP, by the Owner or Operator, in accordance with Part III.A.5 of the SPDES General Permit for Stormwater Runoff from Construction Activity, GP-0-15-002, dated January 12, 2015, Page 10 of 40, shall sign a copy of the following Certification Statement before undertaking any construction activity at the Site identified in the SWPPP:

"I hereby certify that I understand and agree to comply with the terms and conditions of the SWPPP and agree to implement any corrective actions identified by the Qualified Inspector during a site inspection. I also understand that the Owner or Operator must comply with the terms and conditions of the New York State Pollutant Discharge Elimination System ("SPDES") General Permit for Stormwater Discharge from Construction Activities and that it is unlawful for any person to cause or contribute to a violation of water quality standards. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of the referenced permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings."

Individual Contractor: \_\_\_\_\_
Name and Title (please print): \_\_\_\_\_
Signature of Contractor: \_\_\_\_\_
Company / Contracting Firm: \_\_\_\_\_
Name of Company: \_\_\_\_\_
Address of Company: \_\_\_\_\_
Telephone Number / Cell Number: \_\_\_\_\_
Site Information: \_\_\_\_\_
Address of Site: \_\_\_\_\_
Today's Date: \_\_\_\_\_



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Civil Engineers • Land Planners
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Revisions table with columns: No., Date, Comments, Plan Revisions.

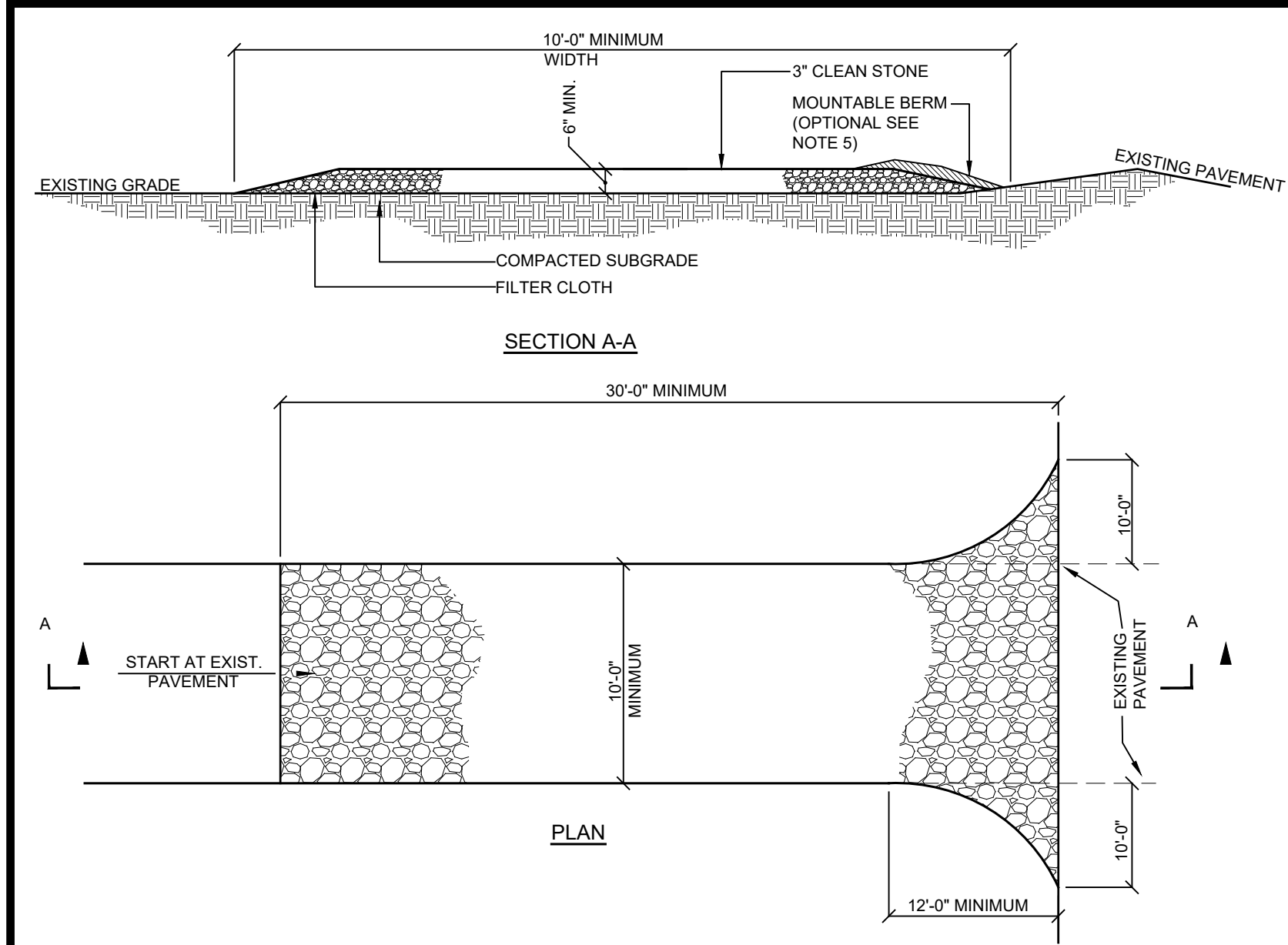
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E&S NOTES

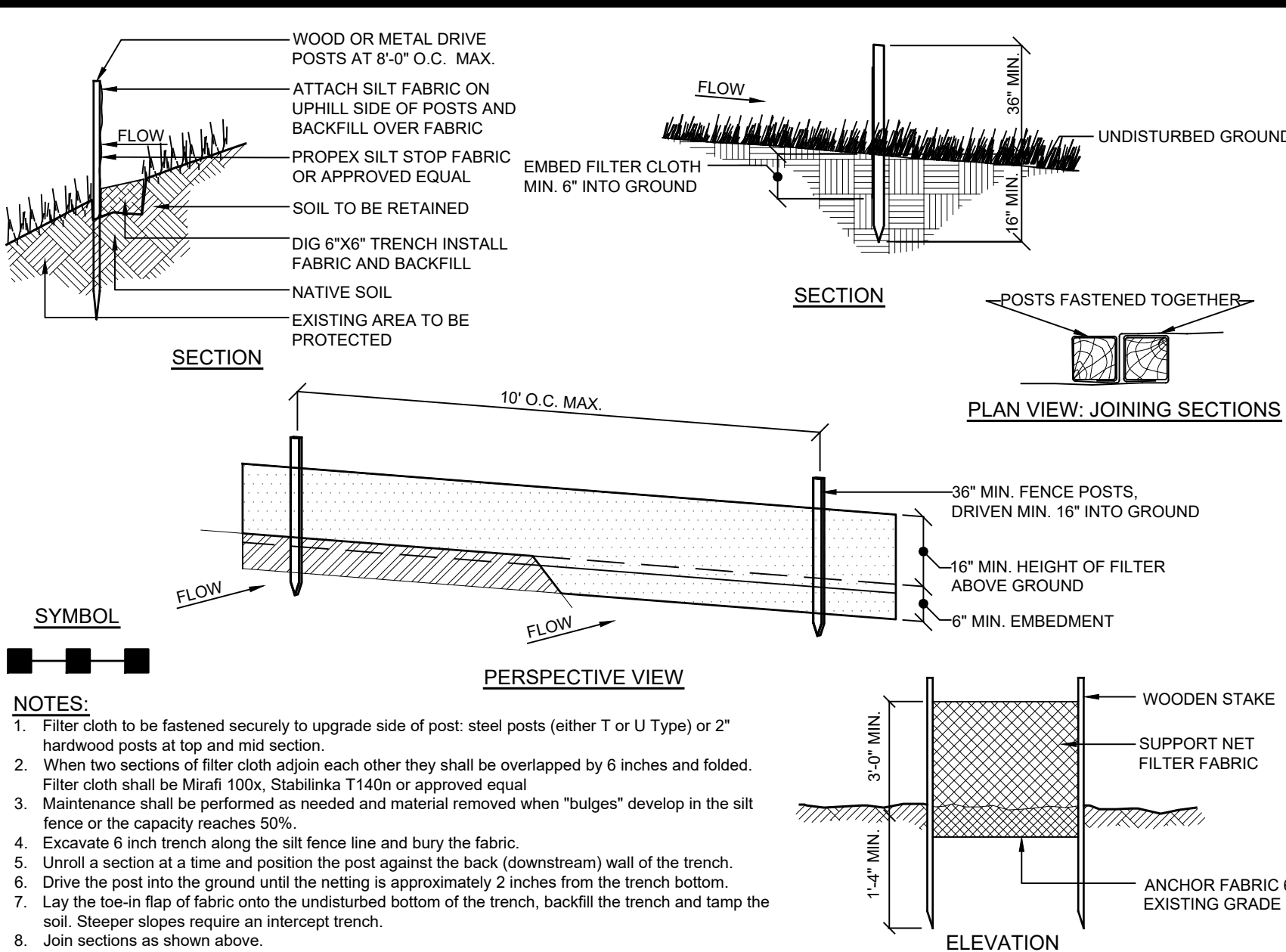
SITE PLAN PREPARED FOR
NIKOLLA GRISHAJ
3319 STONY STREET
Westchester County, New York
Town Of Yorktown

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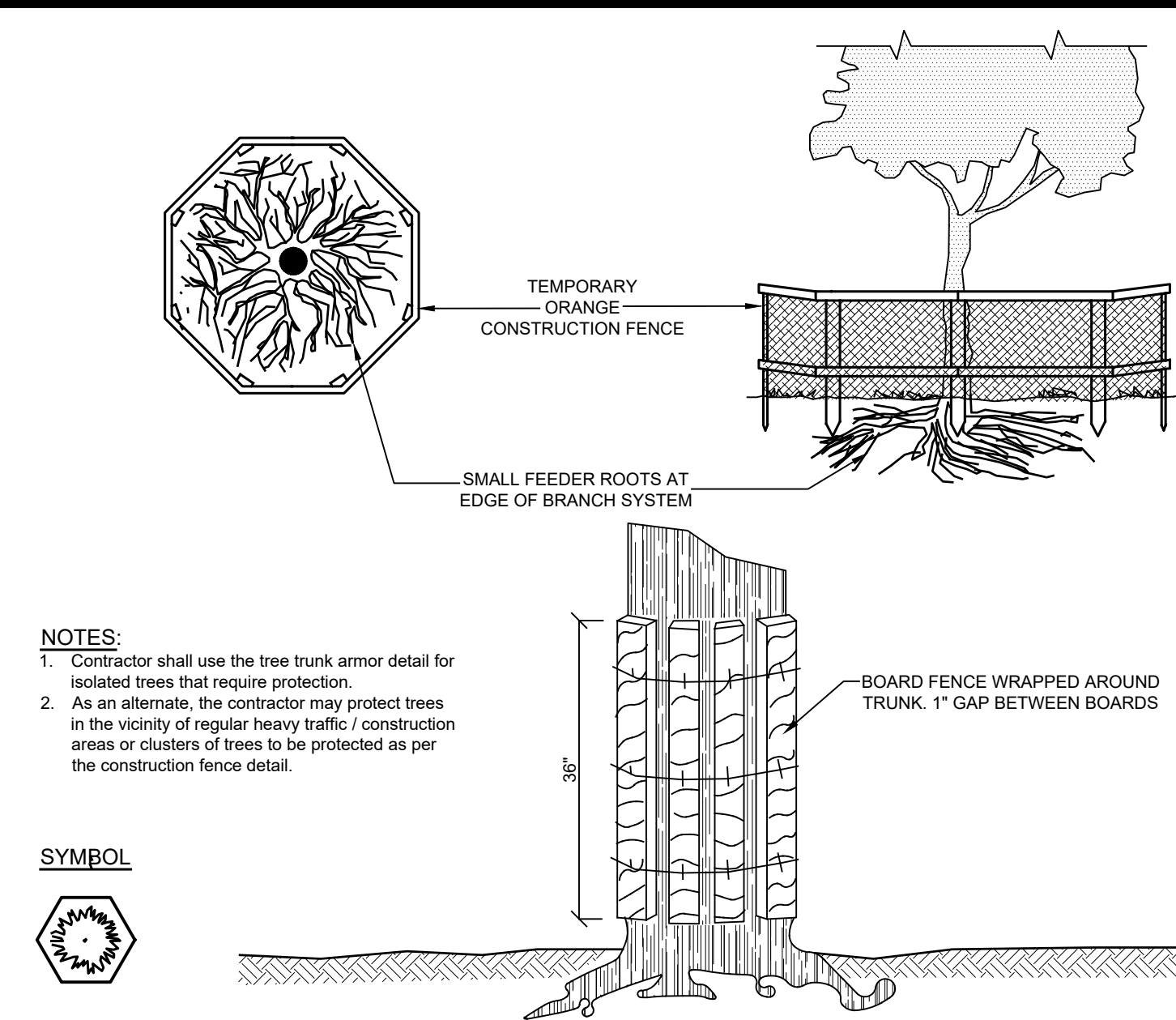
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- INSTALLATION NOTES:**
1. Stone size - use 3" min. Stone, or reclaimed or recycled concrete equivalent.
  2. Length - as required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply).
  3. Thickness - not less than six (6) inches.
  4. Width - 10 foot minimum, but not less than the full width at points where ingress or egress occur. 24 ft if single entrance to site.
  5. Surface water - all surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mounded berm with 5:1 slopes will be permitted.
  6. Maintenance - the entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public right of way this may require periodic top dressing with additional stone as conditions demand and repair and/or cleanouts of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public right of way must be removed immediately.
  7. Washing - wheels shall be cleaned to remove sediment prior to entrance onto public right 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.
  8. Periodic inspection and needed maintenance shall be provided after each rain.



- NOTES:**
1. Filter cloth to be fastened securely to upgrade side of post: steel posts (either T or U type) or 2" hardwood posts at top and mid section.
  2. When two sections of filter cloth adjoin each other they shall be overlapped by 6 inches and folded. Filter cloth shall be Mirafi 100x, Stablinka T140n or approved equal.
  3. Maintenance shall be performed as needed and material removed when "bulges" develop in the silt fence or the capacity reaches 50%.
  4. Excavate 6 inch trench along the silt fence line and bury the fabric.
  5. Unroll a section at a time and position the post against the back (downstream) wall of the trench.
  6. Drive the post into the ground until the netting is approximately 2 inches from the trench bottom.
  7. Lay the toe-in flap of fabric onto the undisturbed bottom of the trench, backfill the trench and tamp the soil. Steeper slopes require an intercept trench.
  8. Join sections as shown above.

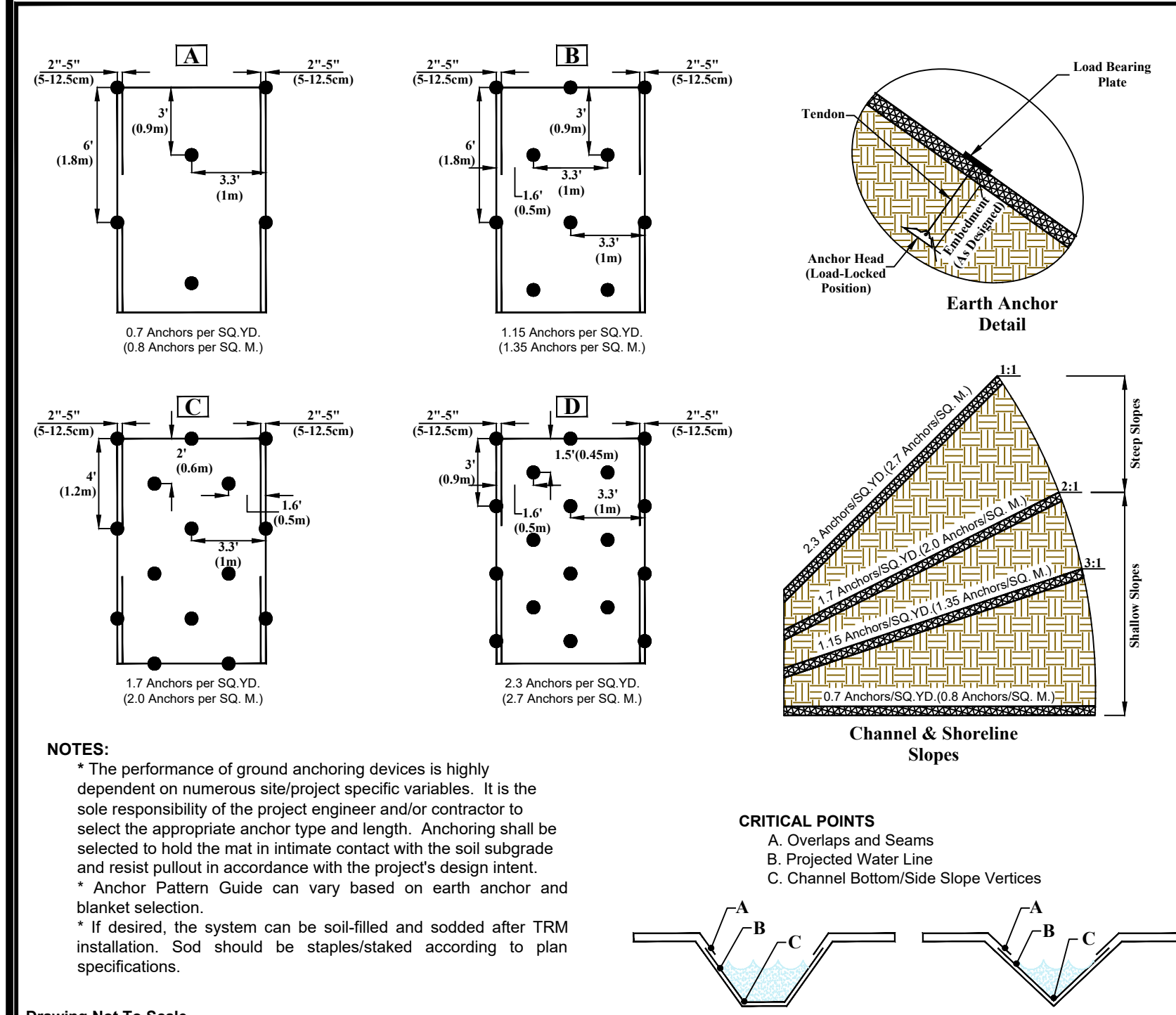


- NOTES:**
1. Contractor shall use the tree trunk armor detail for isolated trees that require protection.
  2. As an alternate, the contractor may protect trees in the vicinity of regular heavy traffic / construction areas or clusters of trees to be protected as per the construction fence detail.

**E-1 STABILIZED CONSTRUCTION ENTRANCE DETAIL**  
NOT TO SCALE

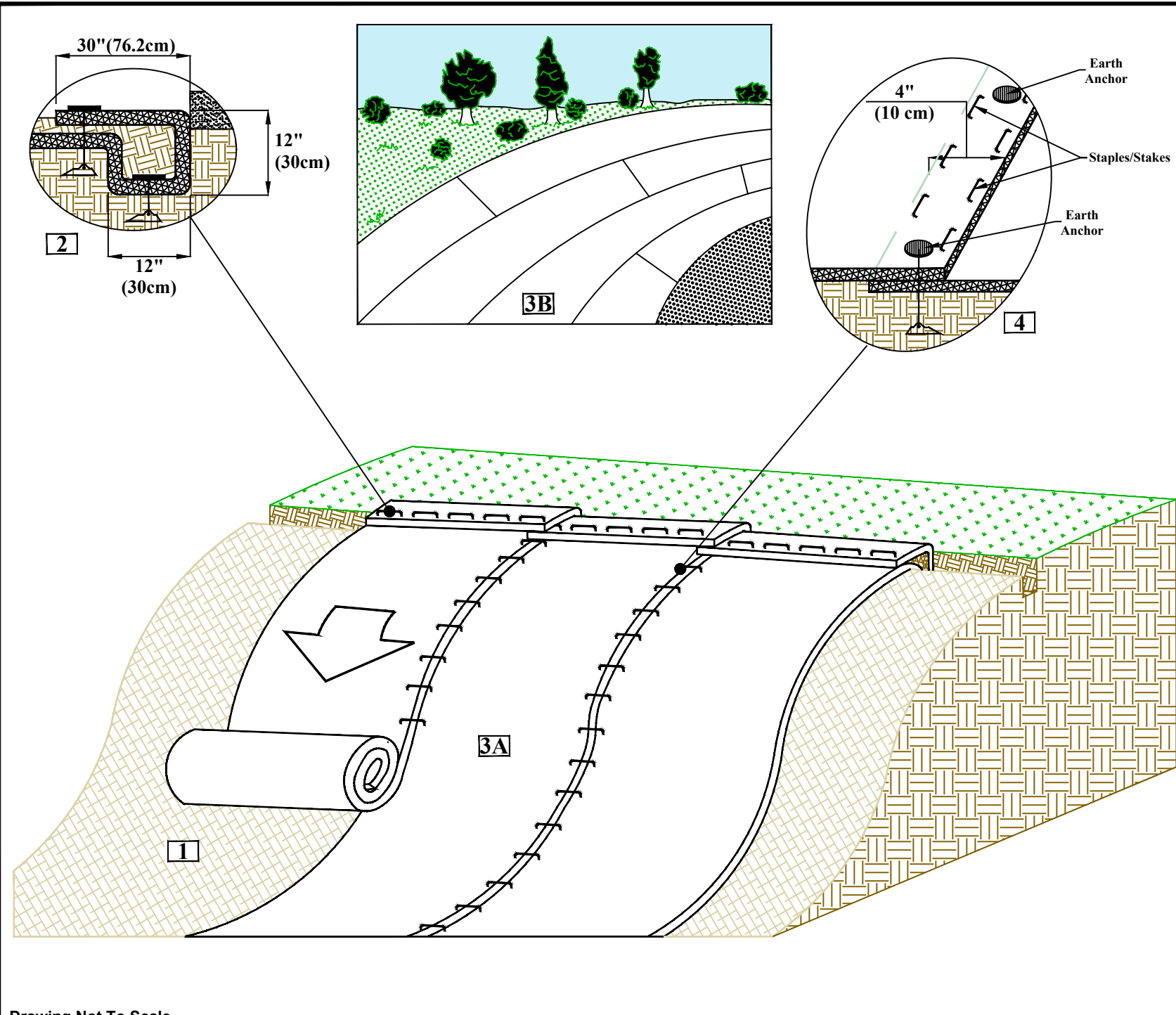
**E-2 SILT FENCE DETAIL**  
NOT TO SCALE

**E-3 TREE TRUNK ARMOR / TREE PROTECTION DETAIL**  
NOT TO SCALE



**SLOPE INSTALLATION EARTH ANCHOR (EA) DETAIL**

1. Prepare soil before installing high-performance turf reinforcement mats (HP-TRMs), including any necessary application of lime, fertilizer, and seed.
2. Begin at the top of the slope by anchoring the HP-TRMs in a 6" (15 cm) deep x 6" (15cm) wide trench with approximately 12" (30 cm) of HP-TRMs extended beyond the up-slope portion of the trench. Anchor the HP-TRMs with a row of staples and anchors approximately 12" (30 cm) apart in the bottom of the trench. Backfill and compact the trench after stapling. Apply seed to compacted soil and fold remaining 12" (30 cm) portion of HP-TRMs back over seed and compacted soil. Secure HP-TRMs over compacted soil with a row of staples/stakes spaced approximately 12" (30 cm) apart across the width of the HP-TRMs. Roll the HP-TRM (A) down or (B) horizontally across the slope. HP-TRMs will unroll with appropriate side against the soil surface. All HP-TRMs must be securely fastened to soil surface by placing staples/stakes in appropriate locations as shown in the staple pattern guide.
3. The edges of parallel HP-TRMs must be stapled with approximately 2" - 5" (5-12.5cm) overlap depending on the HP-TRM type. Consecutive HP-TRMs spliced down the slope must be end over end (Shingle style) with an approximate 3" (7.5cm) overlap. Staple through overlapped area, approximately 12" (30cm) apart across entire HP-TRM width.



**SLOPE INSTALLATION EARTH ANCHOR (EA) DETAIL**

1. Prepare soil before installing high-performance turf reinforcement mats (HP-TRMs), including any necessary application of lime, fertilizer, and seed.
2. Begin at the top of the slope by anchoring the HP-TRMs in a 12" (30 cm) deep x 12" (30cm) wide trench with approximately 30" (76.2 cm) of HP-TRMs extended beyond the up-slope portion of the trench. Anchor the HP-TRMs with an alternating row of staples and anchors approximately 30" (76.2 cm) apart in the bottom of the trench. Backfill and compact the trench after stapling. Fold remaining 30" (76.2 cm) portion of HP-TRMs back over compacted soil. Secure HP-TRMs over compacted soil with an alternating row of staples/anchors spaced approximately 18" (45 cm) apart across the width of the HP-TRMs.
3. Roll the HP-TRMs (A) down or (B) horizontally across the slope. HP-TRMs will unroll with appropriate side against the soil surface. All HP-TRMs must be securely fastened to soil surface by placing staples/anchors in appropriate locations as shown in the staple pattern guide.
4. The edges of parallel HP-TRMs must be stapled between earth anchors with approximately 4" (10 cm) overlap depending on the HP-TRM type. For curved sections, adjust the overlap edges of parallel HP-TRMs accordingly with a minimum of 4" (10 cm) overlap to accommodate transitional segments.

**NOTES:**

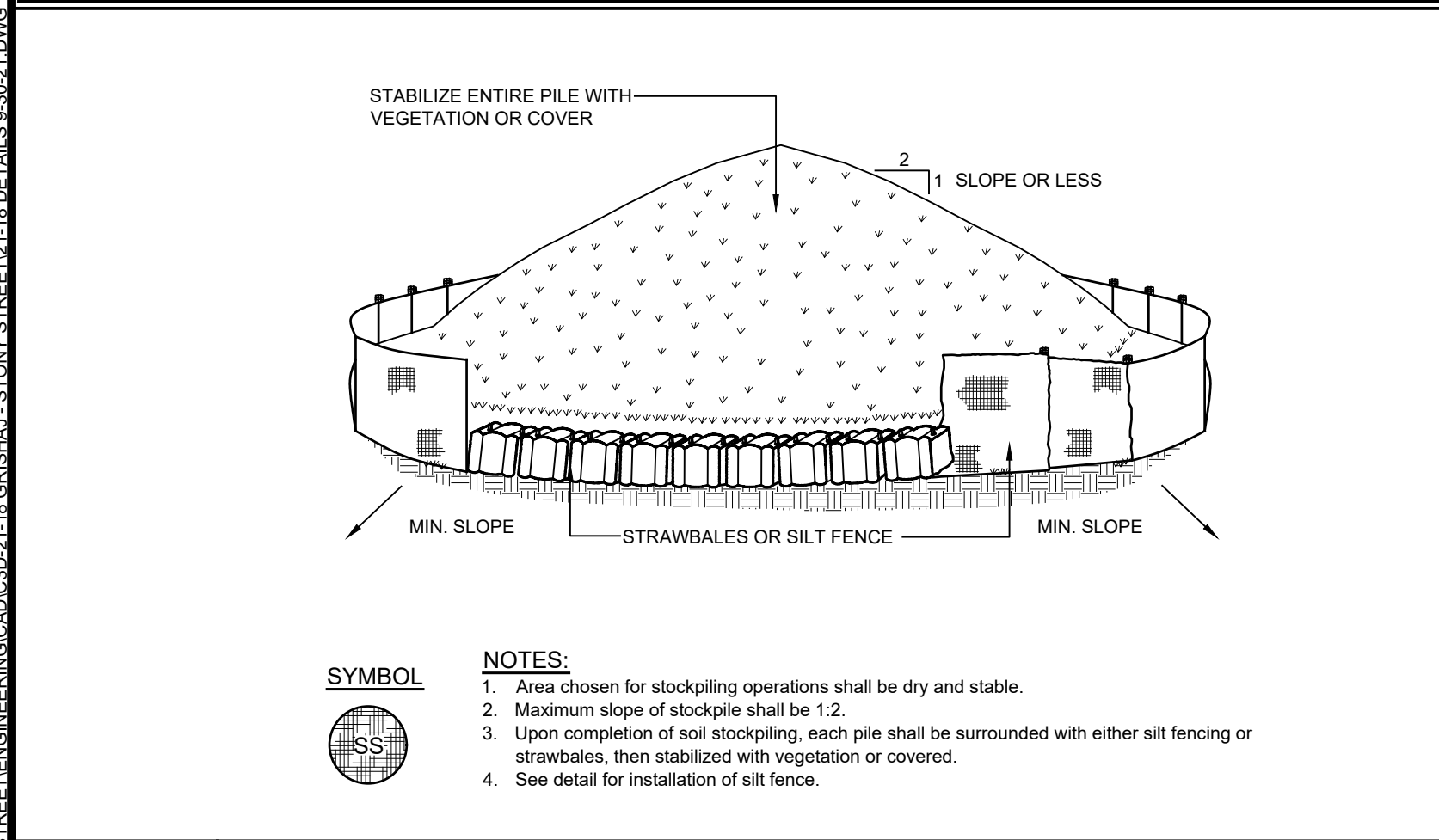
- \* The performance of ground anchoring devices is highly dependent on numerous site/project specific variables. It is the sole responsibility of the project engineer and/or contractor to select the appropriate anchor type and length. Anchoring shall be selected to hold the mat in intimate contact with the soil subgrade and resist pullout in accordance with the project's design intent.
- \* Anchor Pattern Guide can vary based on earth anchor and blanket selection.
- \* If desired, the system can be soil-filled and sodded after TRM installation. Sod should be staples/staked according to plan specifications.

**CRITICAL POINTS**

- A. Overlaps and Seams
- B. Projected Water Line
- C. Channel Bottom/Side Slope Vertices

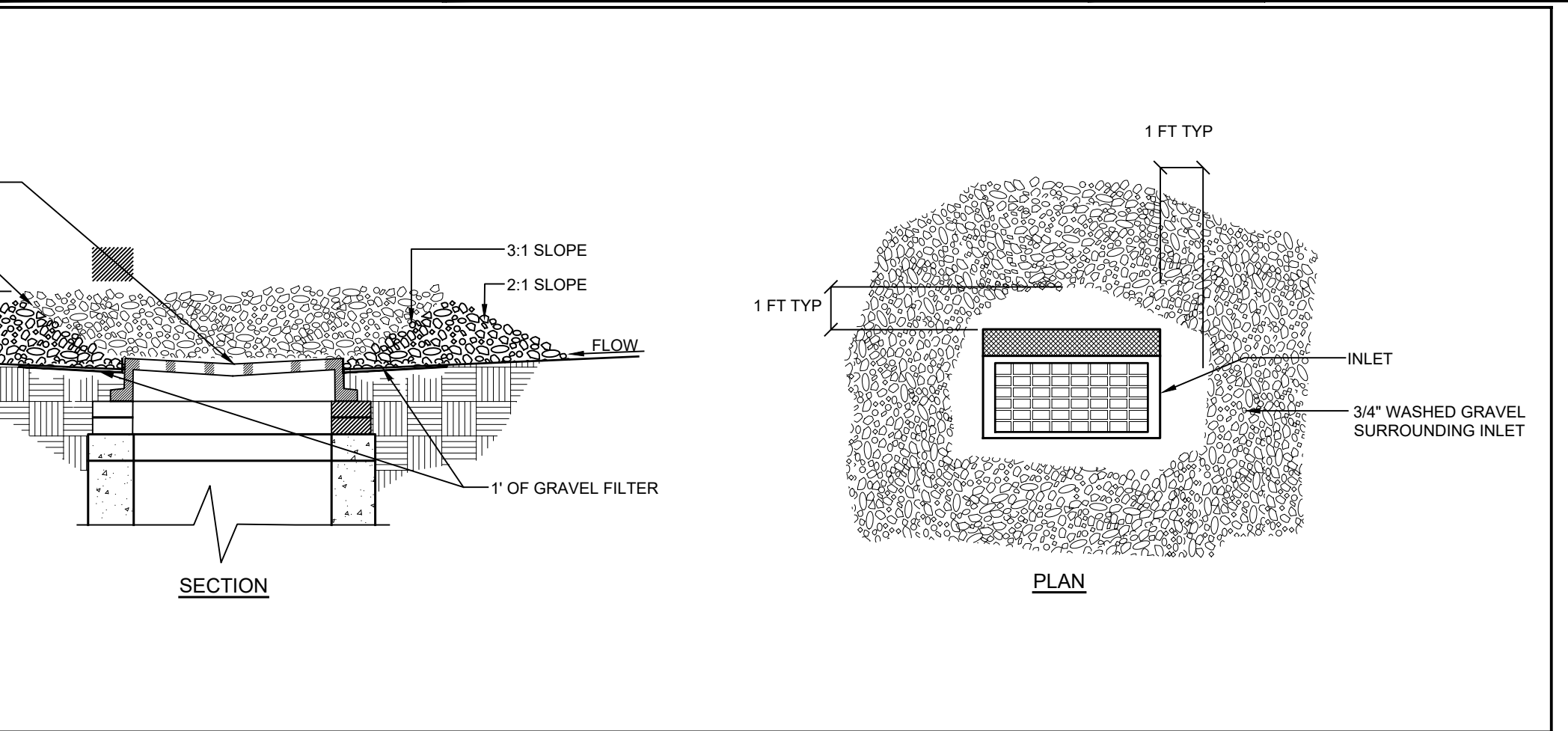
**NOTE:**

In loose soil conditions, the use of staple or stake lengths greater than 6" (15cm) may be necessary to properly secure the HP-TRMs.



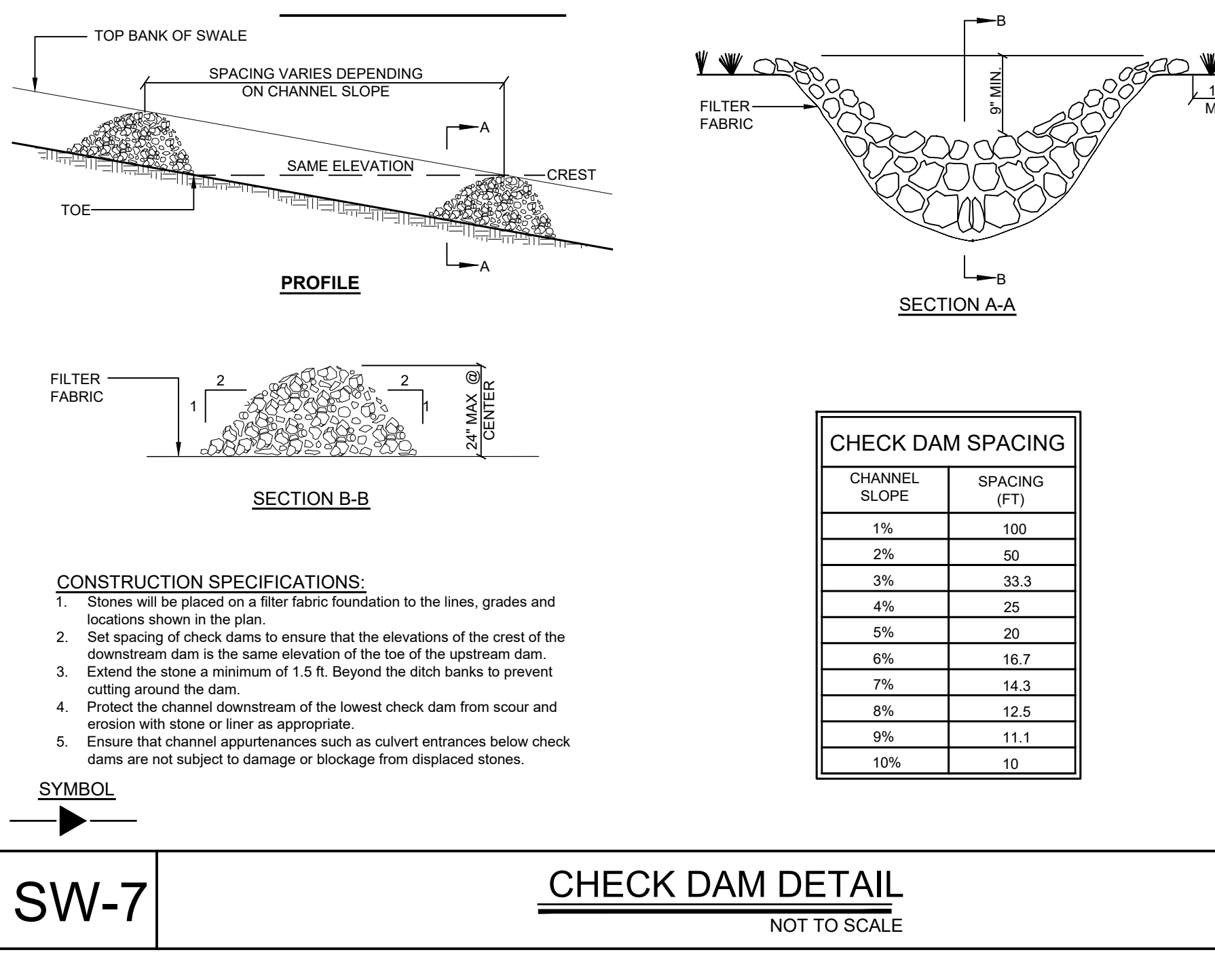
**NOTE:**

In loose soil conditions, the use of staple or stake lengths greater than 6" (15cm) may be necessary to properly secure the HP-TRMs.



**E-4 SOIL STOCKPILE DETAIL**  
NOT TO SCALE

**E-5 INLET PROTECTION DETAIL**  
NOT TO SCALE



**SW-7**

**CHECK DAM DETAIL**  
NOT TO SCALE

CHANNEL SLOPE	SPACING (FT)
1%	100
2%	50
3%	33.3
4%	25
5%	20
6%	16.7
7%	14.3
8%	12.5
9%	11.1
10%	10

- CONSTRUCTION SPECIFICATIONS:**
1. Stones will be placed on a filter fabric foundation to the lines, grades and locations shown in the plan.
  2. Set spacing of check dams to ensure that the elevations of the crest of the downstream dam is the same elevation of the toe of the upstream dam.
  3. Extend the stone a minimum of 1.5 ft. Beyond the ditch banks to prevent cutting around the dam.
  4. Protect the channel downstream of the lowest check dam from scour and erosion with stone or liner as appropriate.
  5. Ensure that channel apertures such as culvert entrances below check dams are not subject to damage or blockage from displaced stones.

**NOTES:**

1. Area chosen for stockpiling operations shall be dry and stable.
2. Maximum slope of stockpile shall be 1:2.
3. Upon completion of soil stockpiling, each pile shall be surrounded with either silt fencing or strawbales, then stabilized with vegetation or covered.
4. See detail for installation of silt fence.

**NOTE:**

In loose soil conditions, the use of staple or stake lengths greater than 6" (15cm) may be necessary to properly secure the HP-TRMs.

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SEAL OF THE STATE OF NEW YORK  
JOSEPH CARLO RUINA, P.E.  
Professional Engineer  
NYS Lic. No. 64431

Revisions:	No.	Date	Comments	Plan	Revisions
		10/7/21			

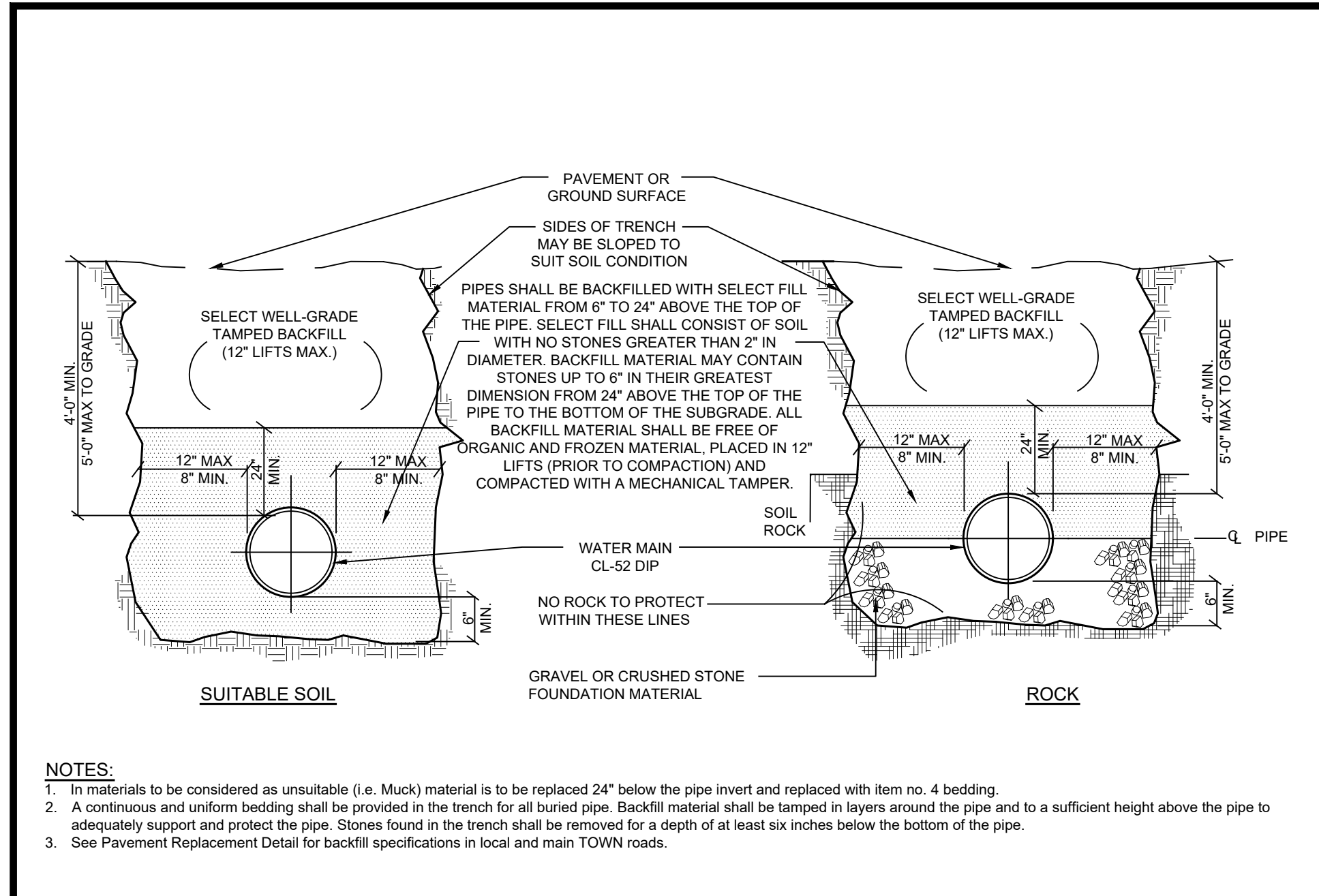
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DRAWN BY: TK  
DATE: 5/7/21

**E&S  
DETAILS**

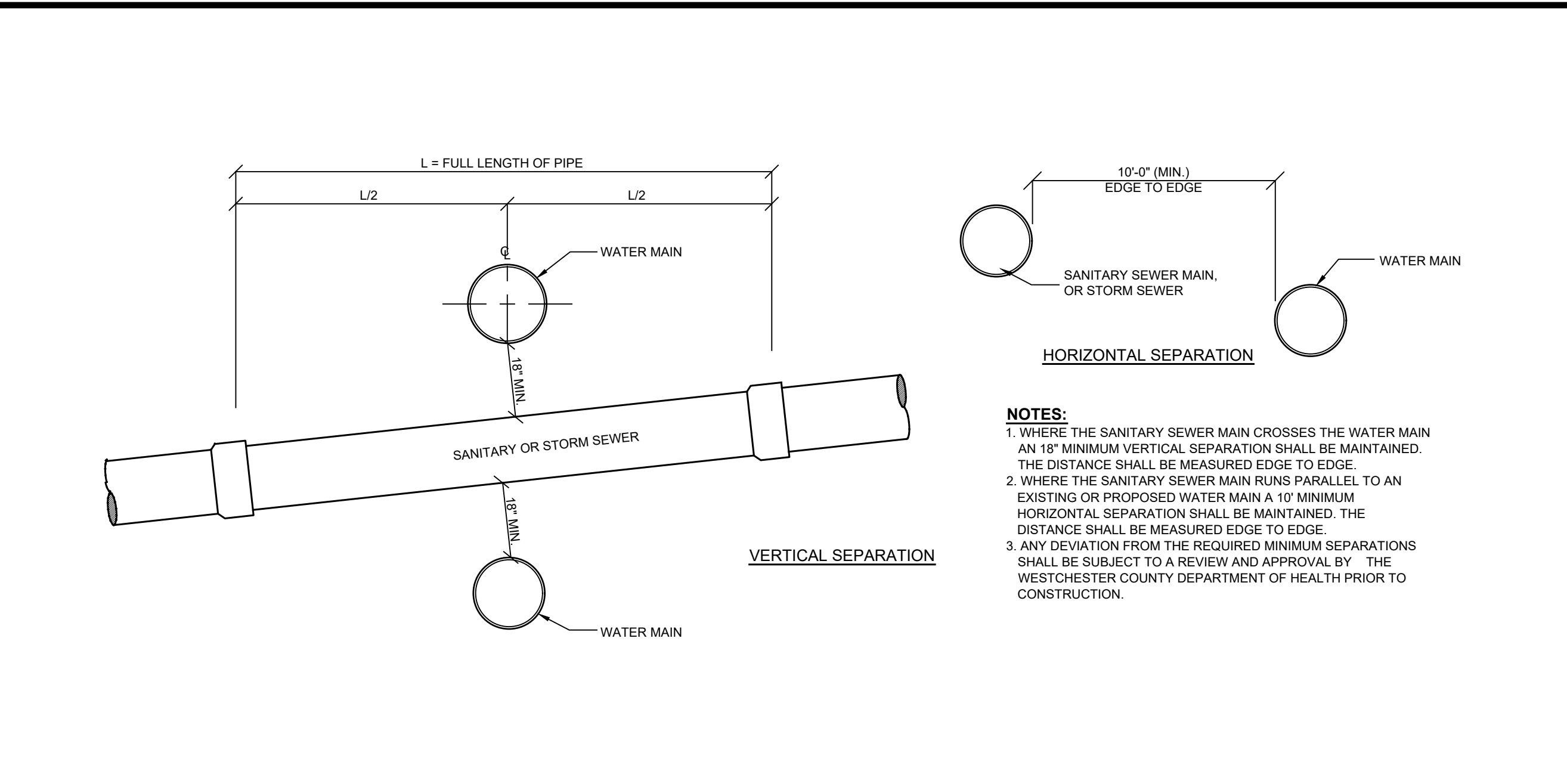
SITE PLAN PREPARED FOR  
**NIKOLLA GRISHAJ**  
3319 STONY STREET  
Town Of Yorktown  
Westchester County, New York



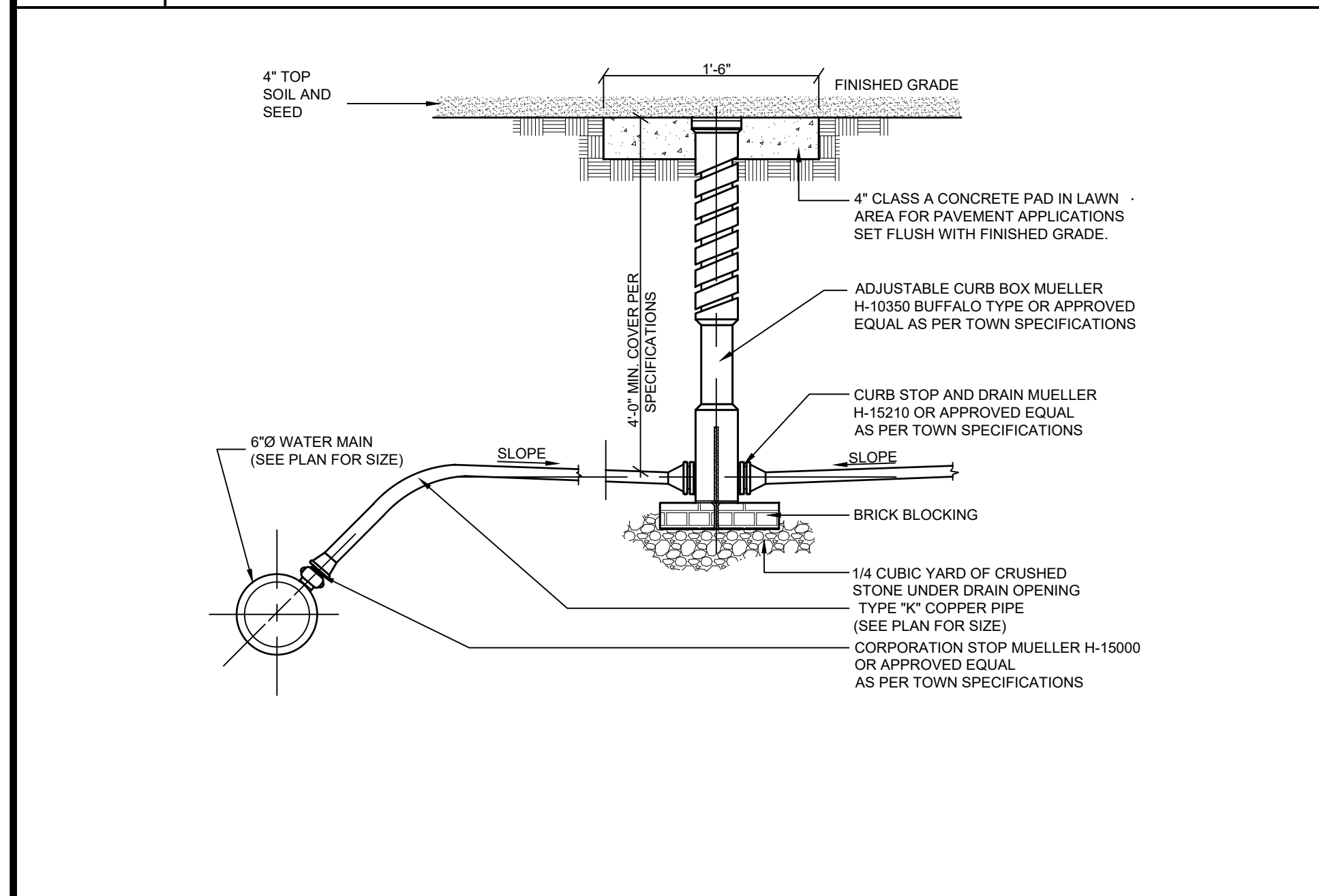
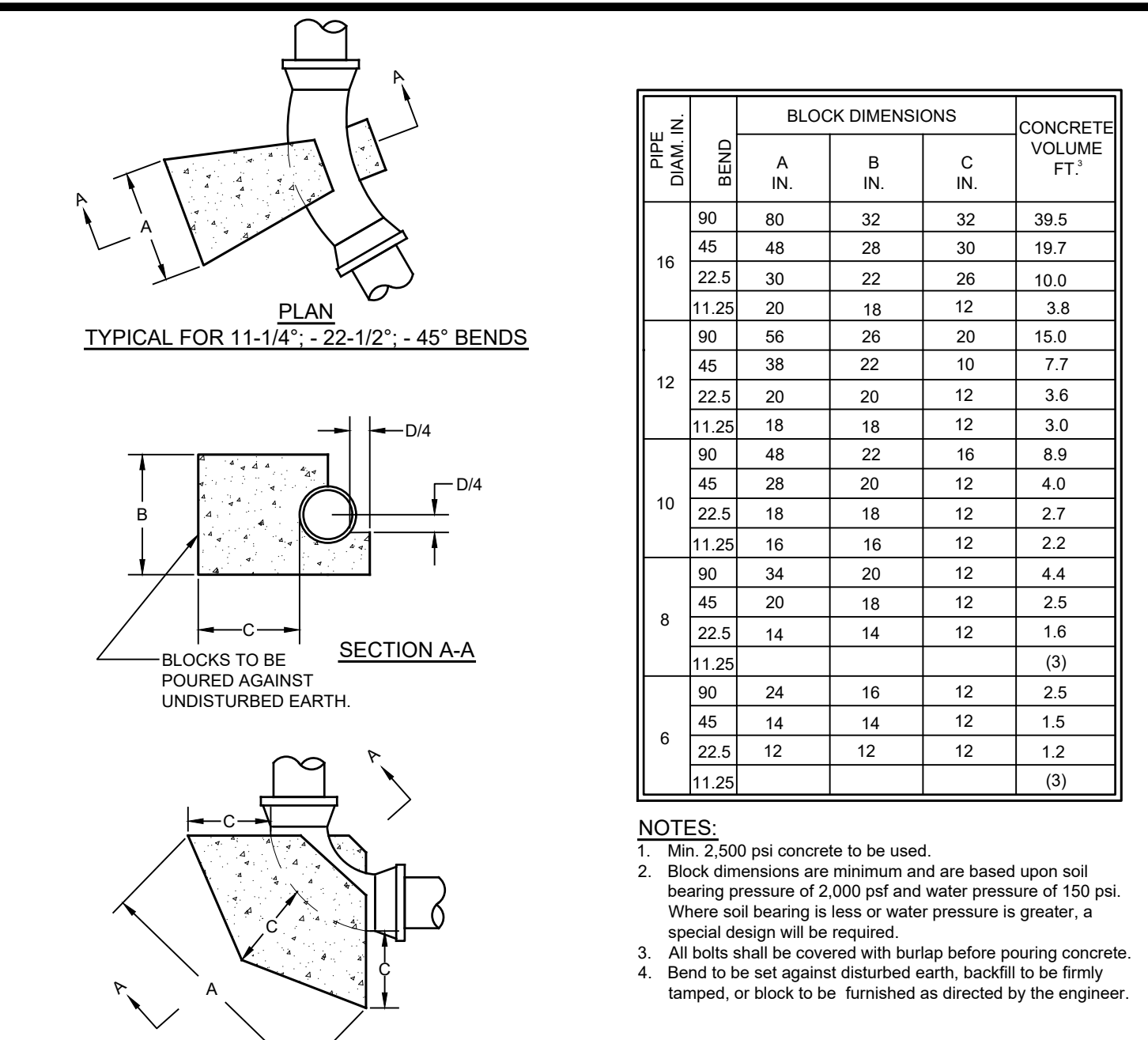




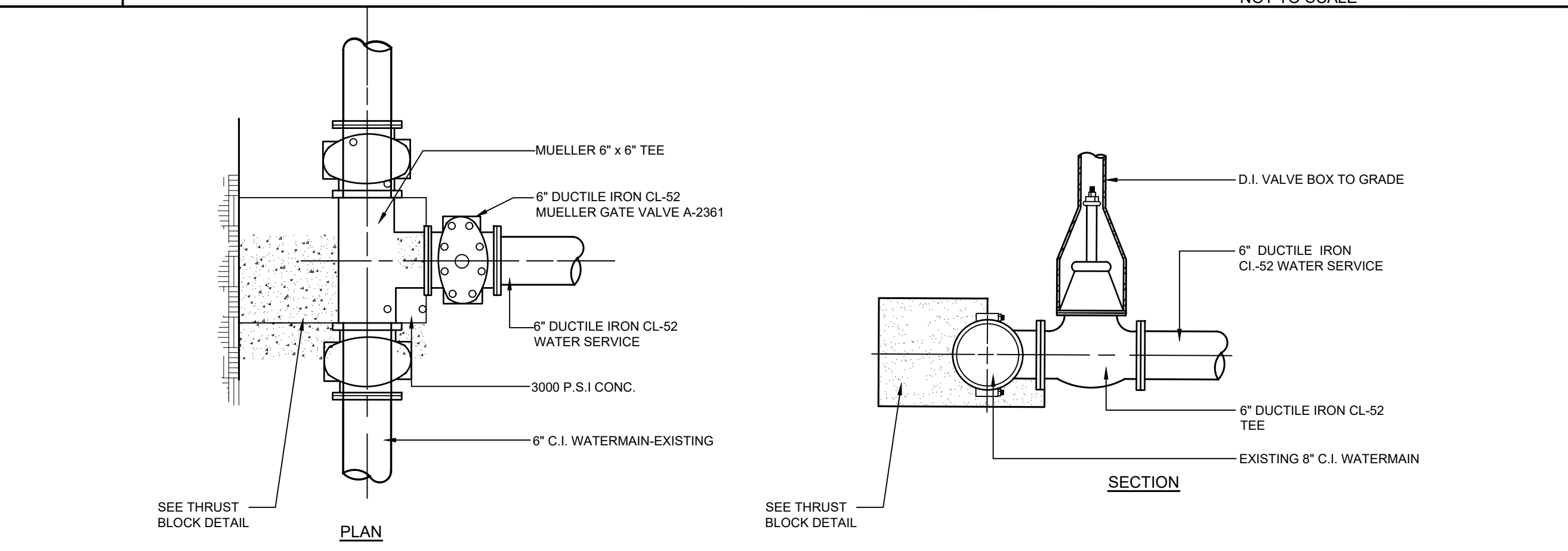
**NOTES:**  
1. In materials to be considered as unsuitable (i.e. Muck) material is to be replaced 24" below the pipe invert and replaced with item no. 4 bedding.  
2. A continuous and uniform bedding shall be provided in the trench for all buried pipe. Backfill material shall be tamped in layers around the pipe and to a sufficient height above the pipe to adequately support and protect the pipe. Stones found in the trench shall be removed for a depth of at least six inches below the bottom of the pipe.  
3. See Pavement Replacement Detail for backfill specifications in local and main TOWN ROADS.



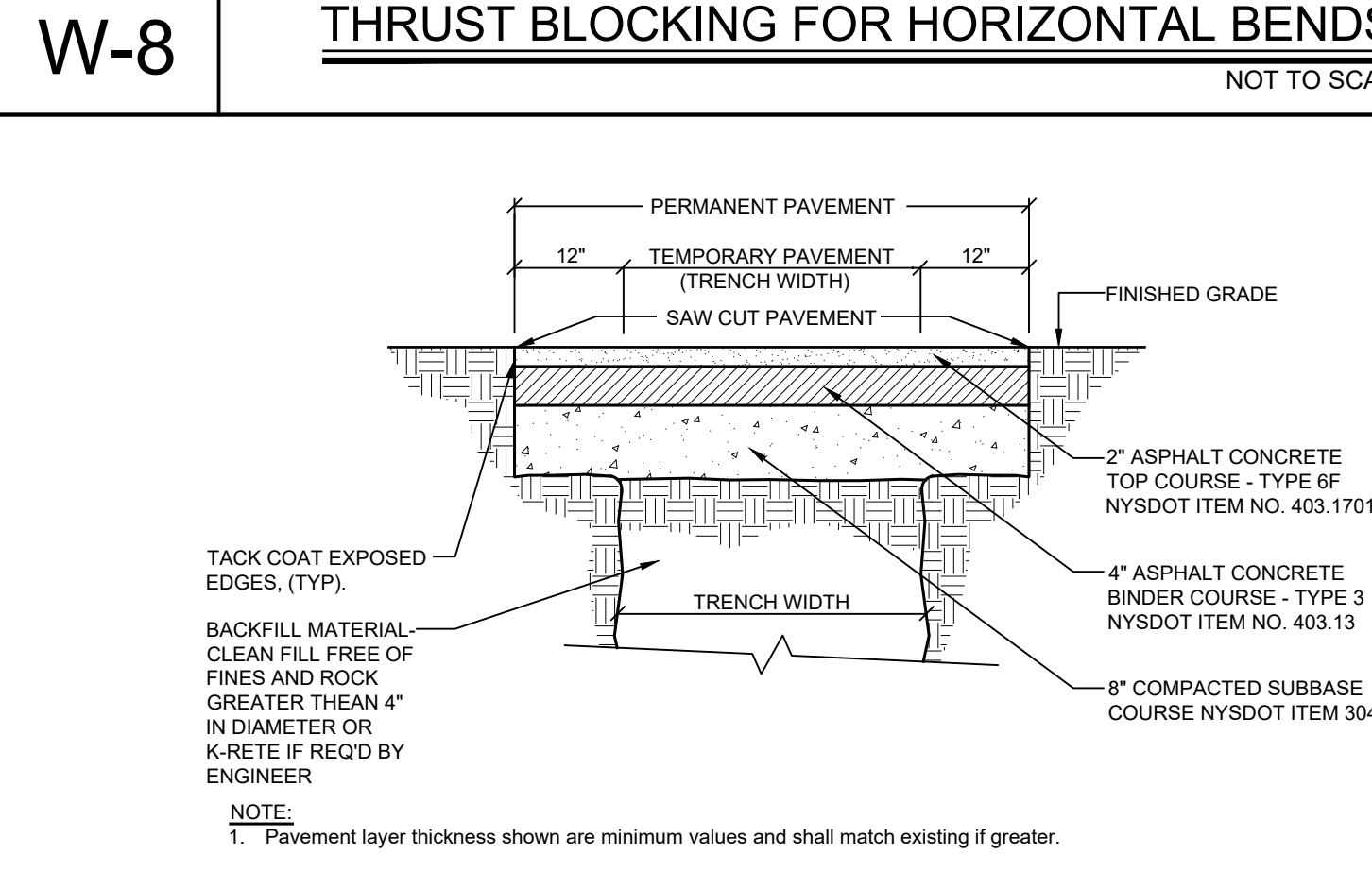
**NOTES:**  
1. Min. 2,500 psi concrete to be used.  
2. Block dimensions are minimum and are based upon soil bearing pressure of 2,000 psf and water pressure of 150 psi. Where soil bearing is less or water pressure is greater, a special design will be required.  
3. All bolts shall be covered with burlap before pouring concrete.  
4. Bend to be set against disturbed earth, backfill to be firmly tamped, or block to be furnished as directed by the engineer.



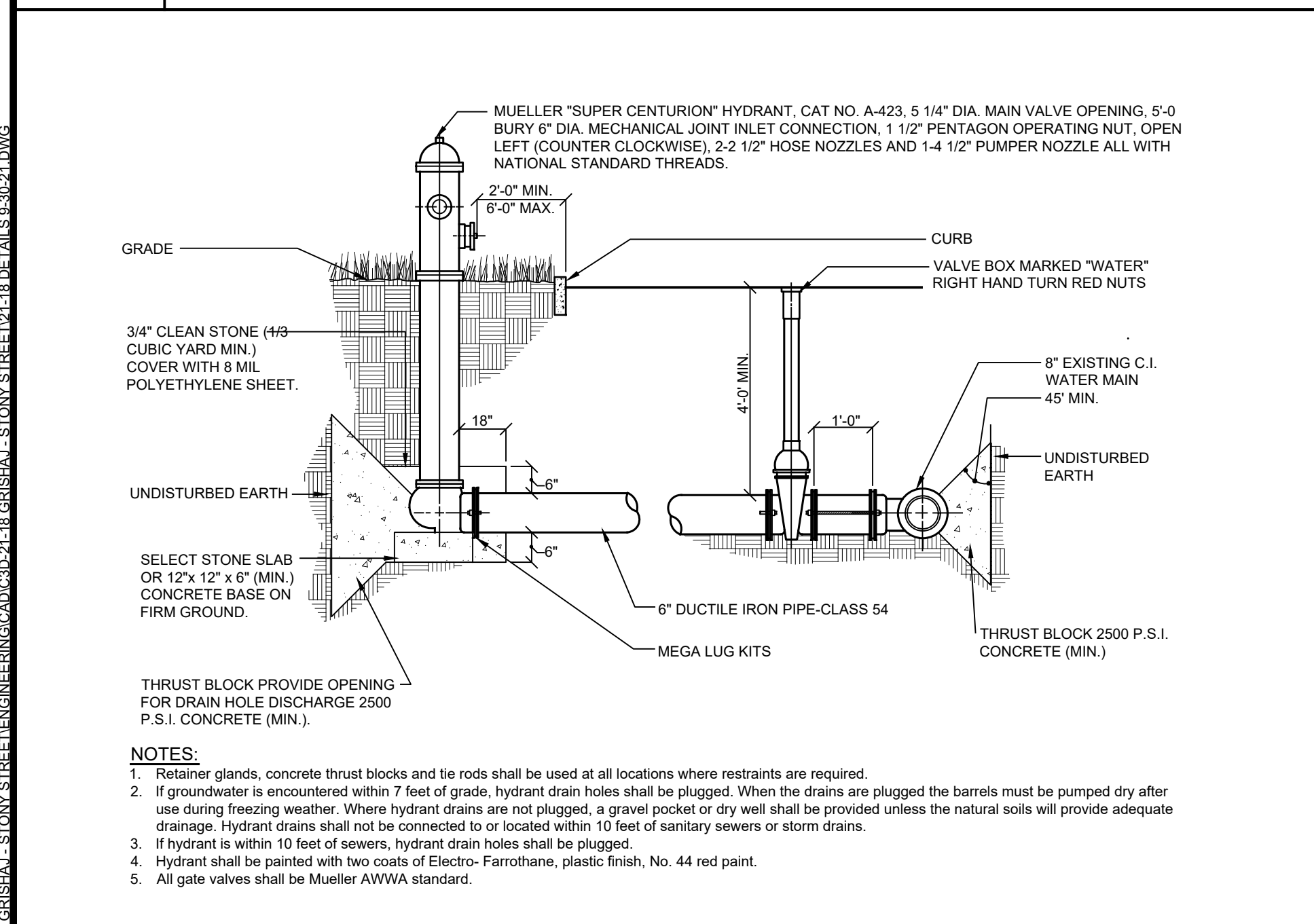
**NOTES:**  
1. Retainer glands, concrete thrust blocks and tie rods shall be used at all locations where restraints are required.  
2. If groundwater is encountered within 7 feet of grade, hydrant drain holes shall be plugged. When the drains are plugged the barrels must be pumped dry after use during freezing weather. Where hydrant drains are not plugged, a gravel pocket or dry well shall be provided unless the natural soils will provide adequate drainage. Hydrant drains shall not be connected to or located within 10 feet of sanitary sewers or storm drains.  
3. If hydrant is within 10 feet of sewers, hydrant drain holes shall be plugged.  
4. Hydrant shall be painted with two coats of Electro-Farothane, plastic finish, No. 44 red paint.  
5. All gate valves shall be Mueller AWWA standard.



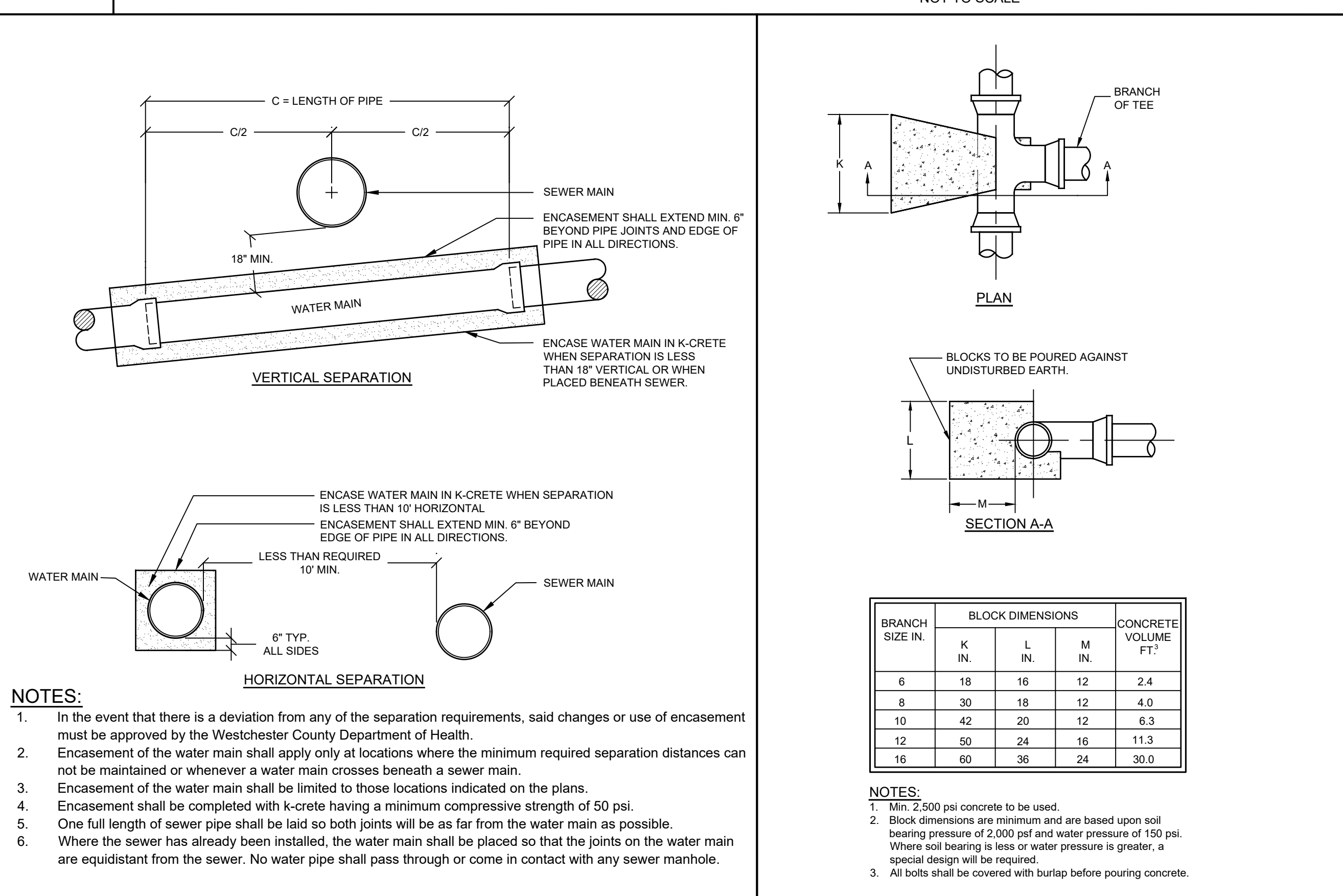
**NOTES:**  
1. Min. 2,500 psi concrete to be used.  
2. Block dimensions are minimum and are based upon soil bearing pressure of 2,000 psf and water pressure of 150 psi. Where soil bearing is less or water pressure is greater, a special design will be required.  
3. All bolts shall be covered with burlap before pouring concrete.  
4. Bend to be set against disturbed earth, backfill to be firmly tamped, or block to be furnished as directed by the engineer.



**NOTES:**  
1. Pavement layer thickness shown are minimum values and shall match existing if greater.



**NOTES:**  
1. Retainer glands, concrete thrust blocks and tie rods shall be used at all locations where restraints are required.  
2. If groundwater is encountered within 7 feet of grade, hydrant drain holes shall be plugged. When the drains are plugged the barrels must be pumped dry after use during freezing weather. Where hydrant drains are not plugged, a gravel pocket or dry well shall be provided unless the natural soils will provide adequate drainage. Hydrant drains shall not be connected to or located within 10 feet of sanitary sewers or storm drains.  
3. If hydrant is within 10 feet of sewers, hydrant drain holes shall be plugged.  
4. Hydrant shall be painted with two coats of Electro-Farothane, plastic finish, No. 44 red paint.  
5. All gate valves shall be Mueller AWWA standard.



**NOTES:**  
1. In the event that there is a deviation from any of the separation requirements, said changes or use of encasement must be approved by the Westchester County Department of Health.  
2. Encasement of the water main shall apply only at locations where the minimum required separation distances can not be maintained or whenever a water main crosses beneath a sewer main.  
3. Encasement of the water main shall be limited to those locations indicated on the plans.  
4. Encasement shall be completed with k-crete having a minimum compressive strength of 50 psi.  
5. One full length of sewer pipe shall be laid so both joints will be as far from the water main as possible.  
6. Where the sewer has already been installed, the water main shall be placed so that the joints on the water main are equidistant from the sewer. No water pipe shall pass through or come in contact with any sewer manhole.

**W-3** **FIRE HYDRANT DETAIL** NOT TO SCALE

**W-6** **WATER MAIN ENCASEMENT DETAIL** NOT TO SCALE

**W-7** **THRUST BLOCKING FOR TEES** NOT TO SCALE

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PROJECT # 21-18

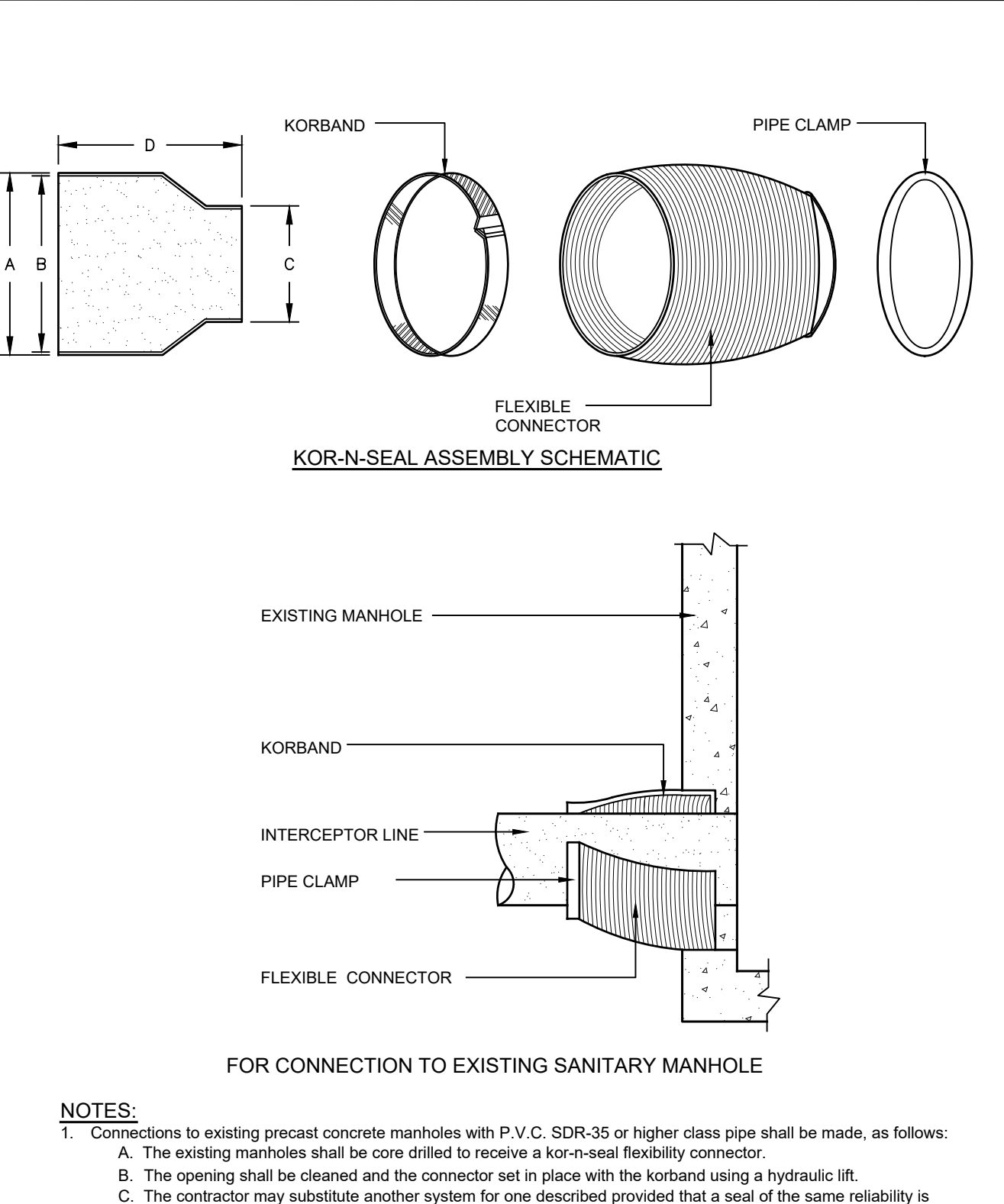
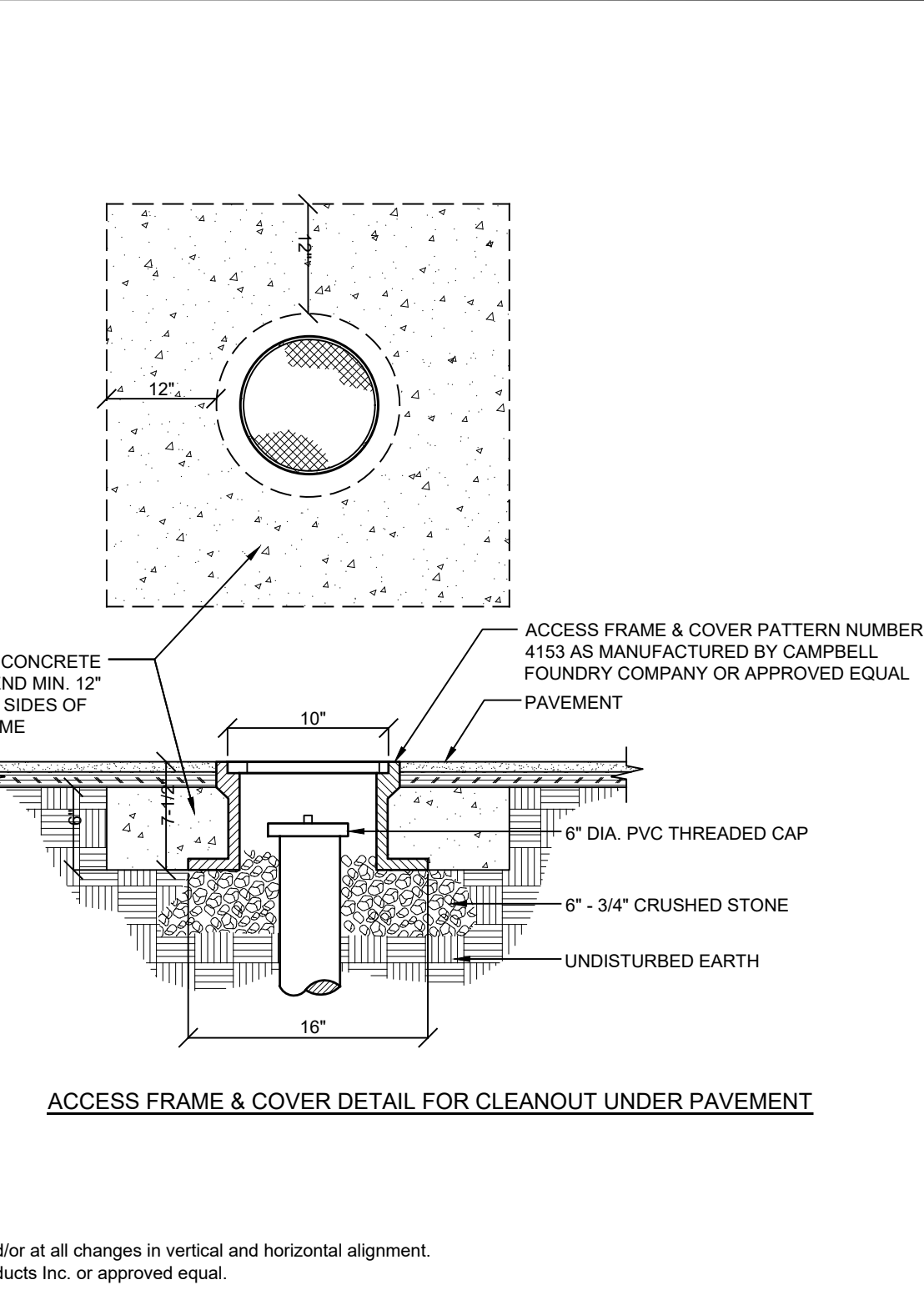
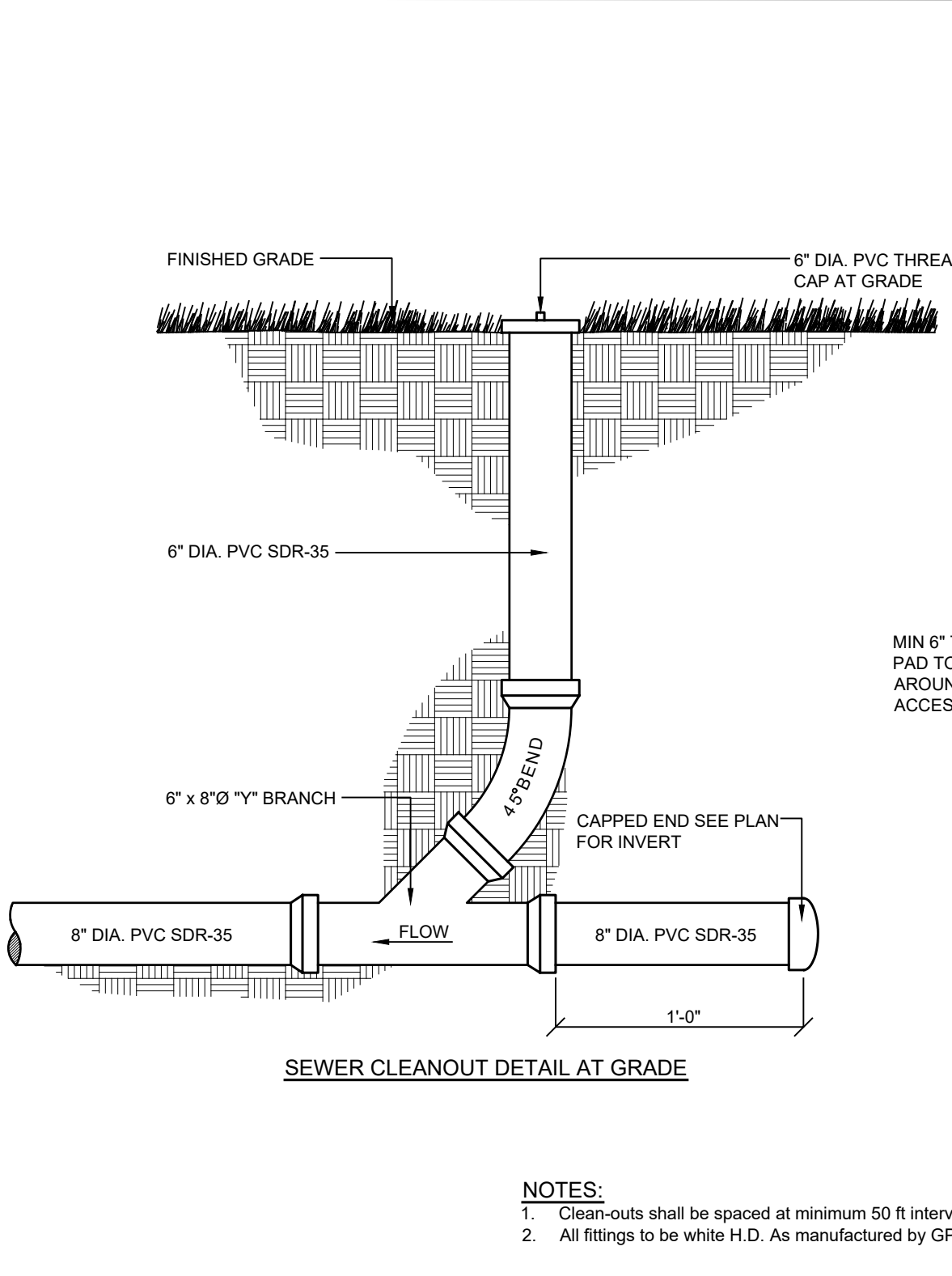
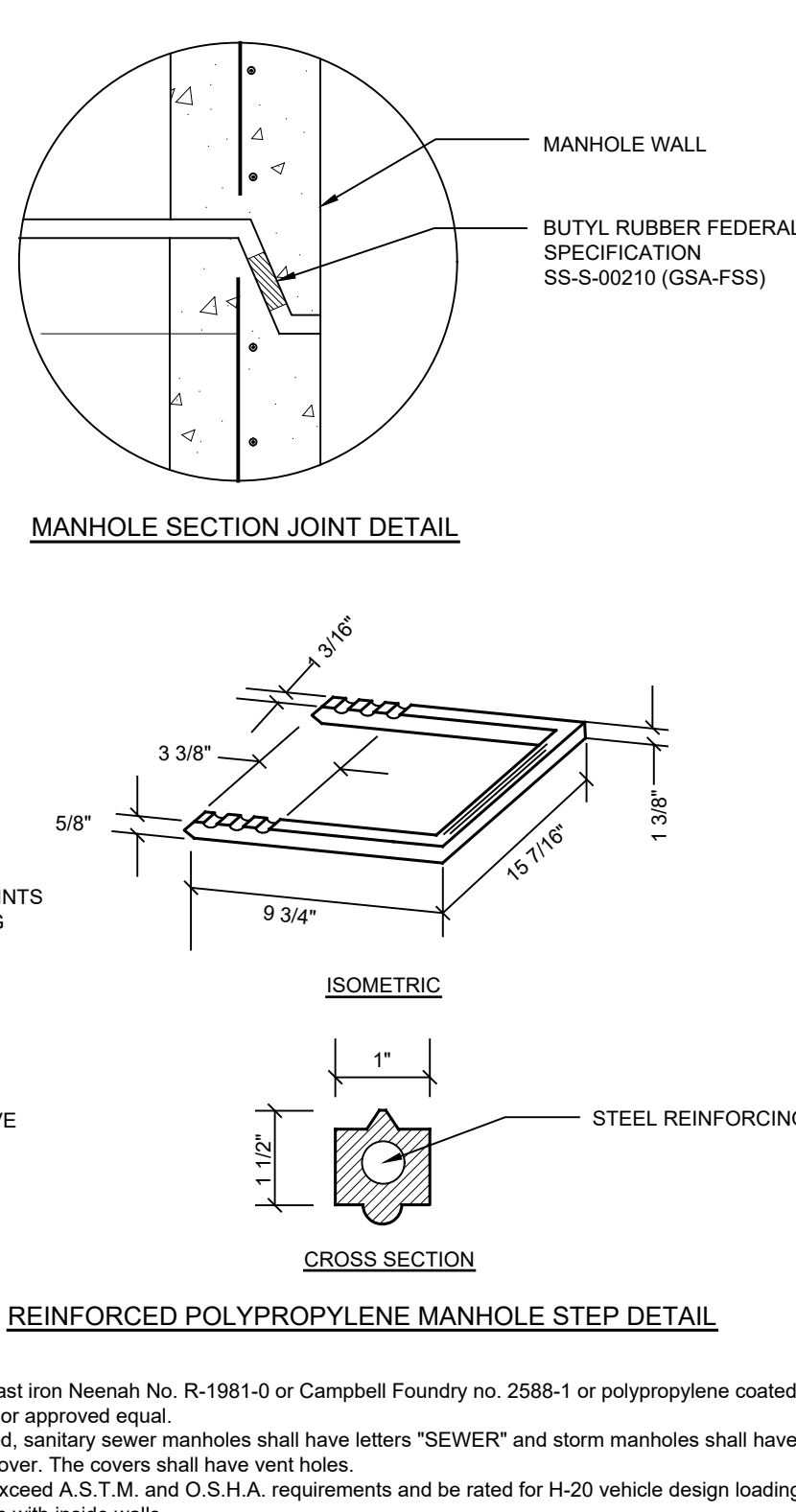
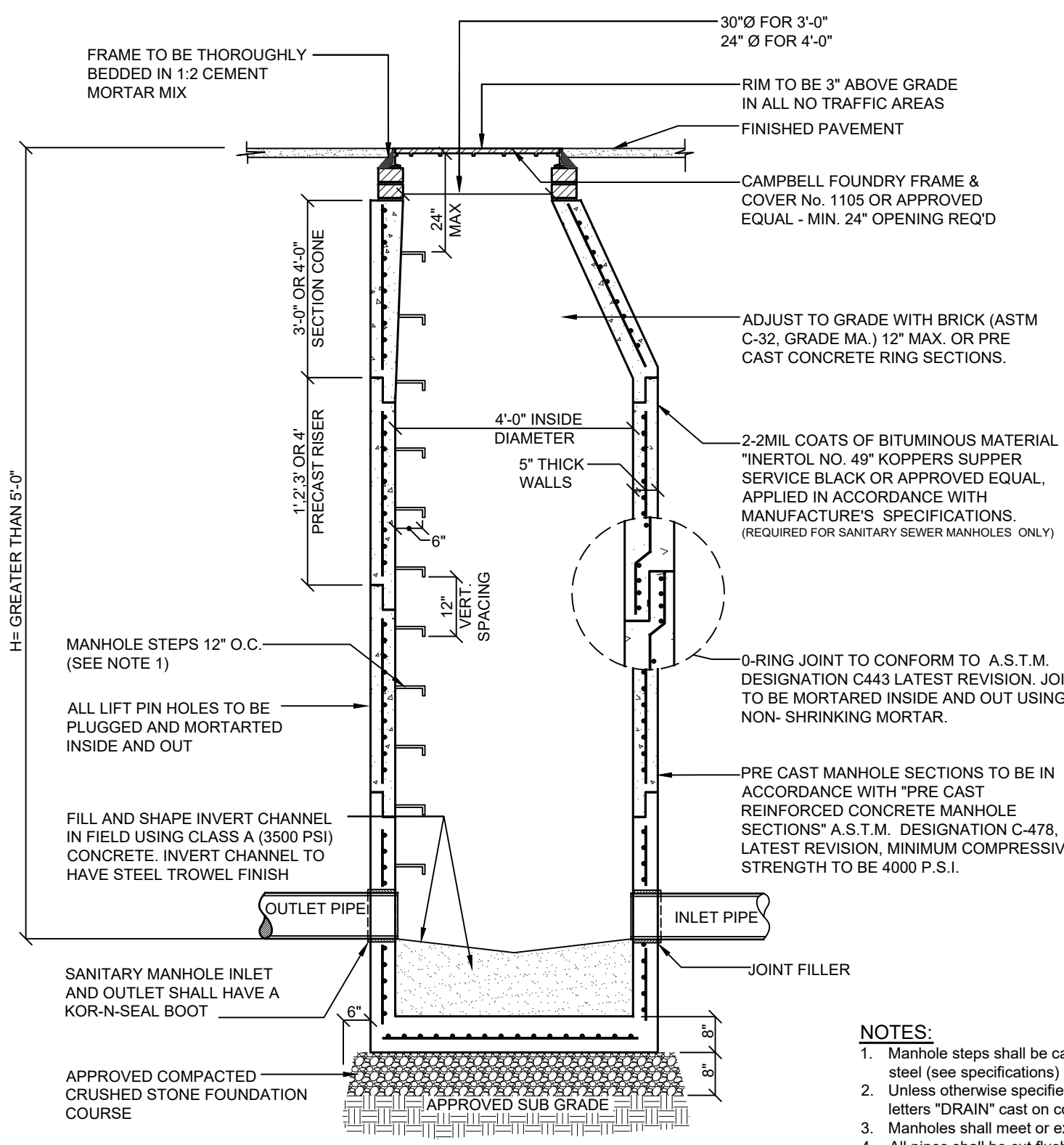
REVISIONS:  
No. Date Comments  
10/7/21 Plan Revisions

SCALE: NTS  
DRAWN BY: TK  
DATE: 5/7/21

**WATERMAIN DETAILS**

SITE PLAN PREPARED FOR  
**NIKOLLA GRISHAJ**  
3319 STONY STREET  
Town of Yorktown Westchester County, New York

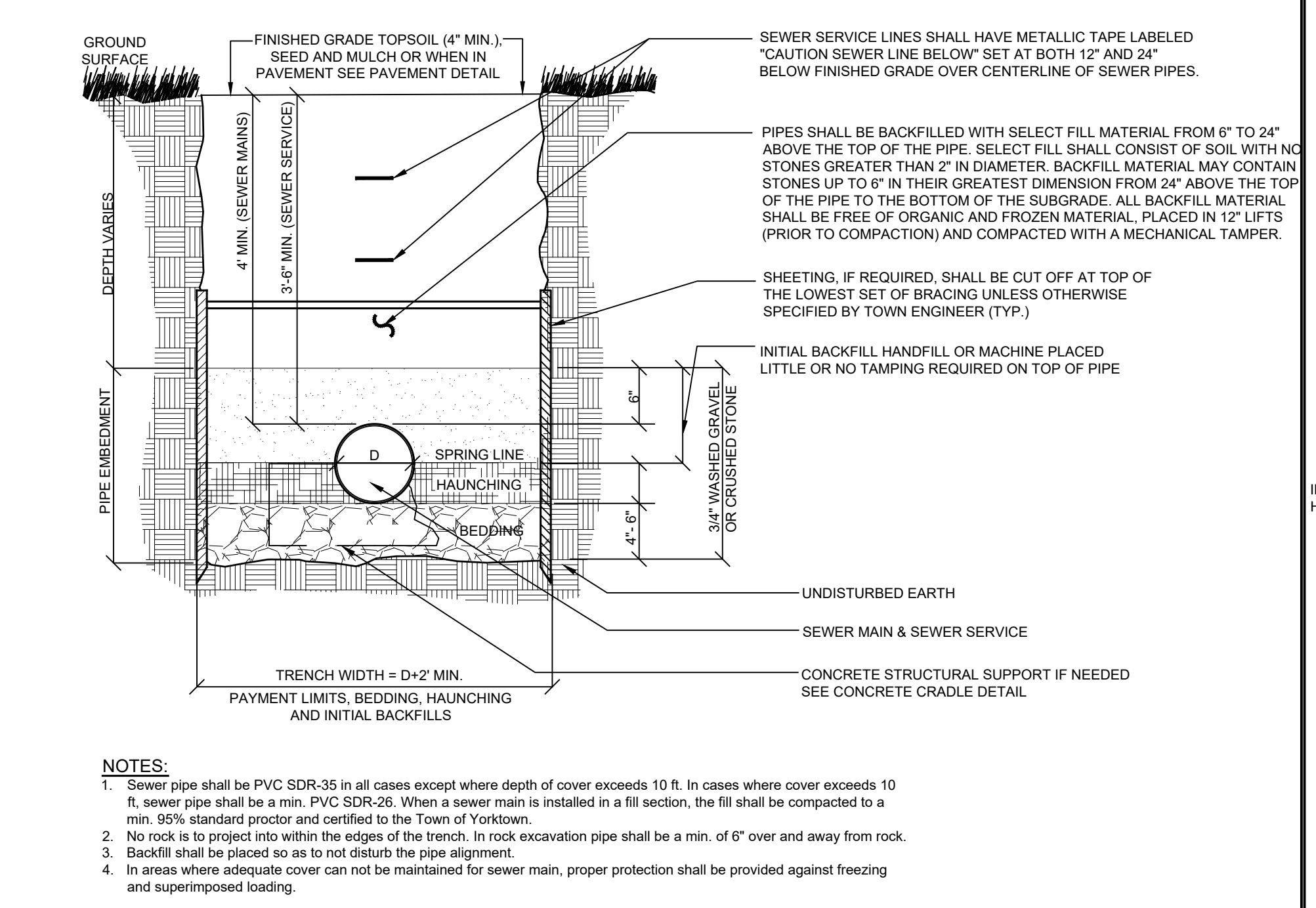
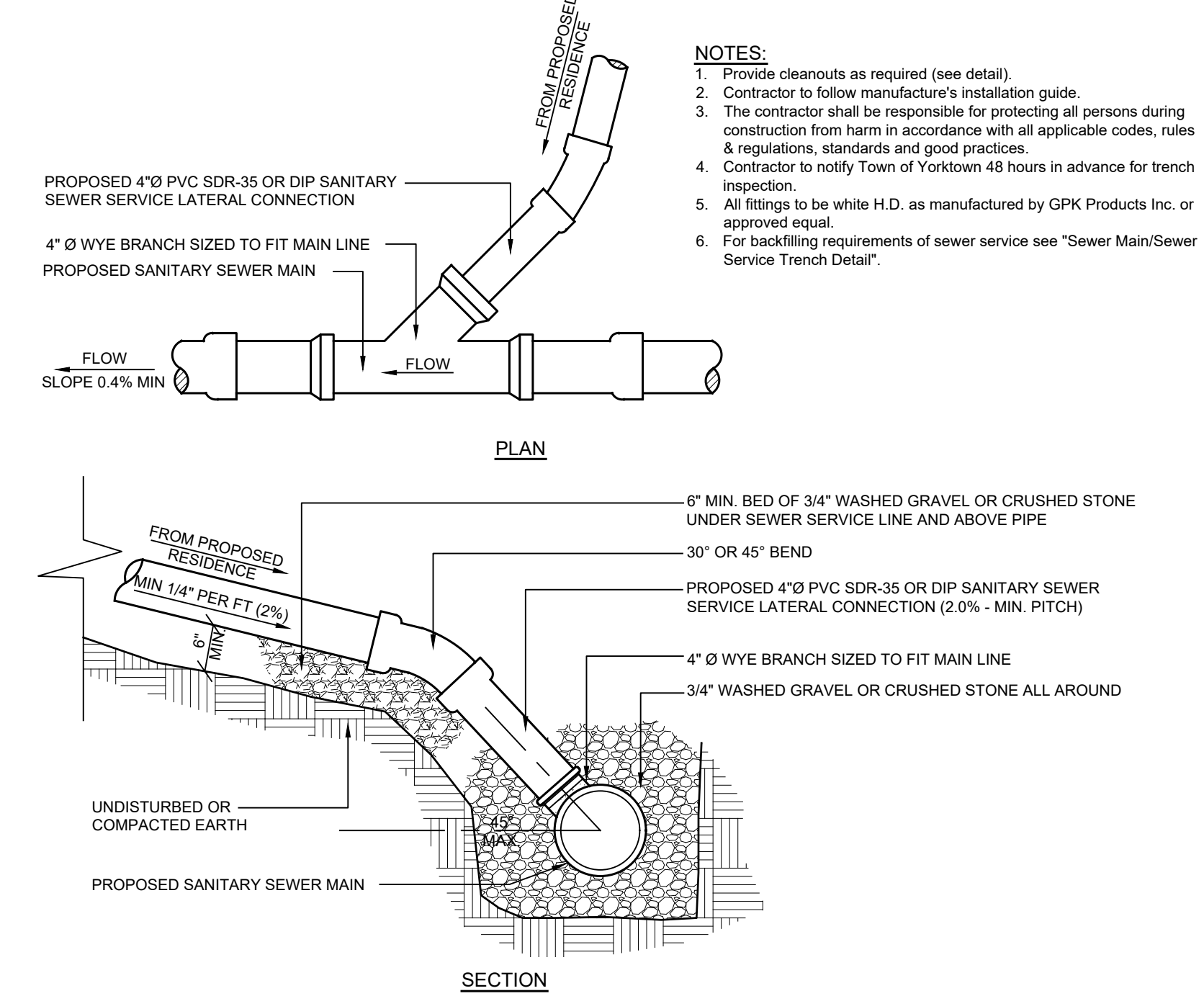
Sheet 14 of 17



**S-1** **PRECAST CONCRETE SEWER MANHOLE DETAIL**  
NOT TO SCALE

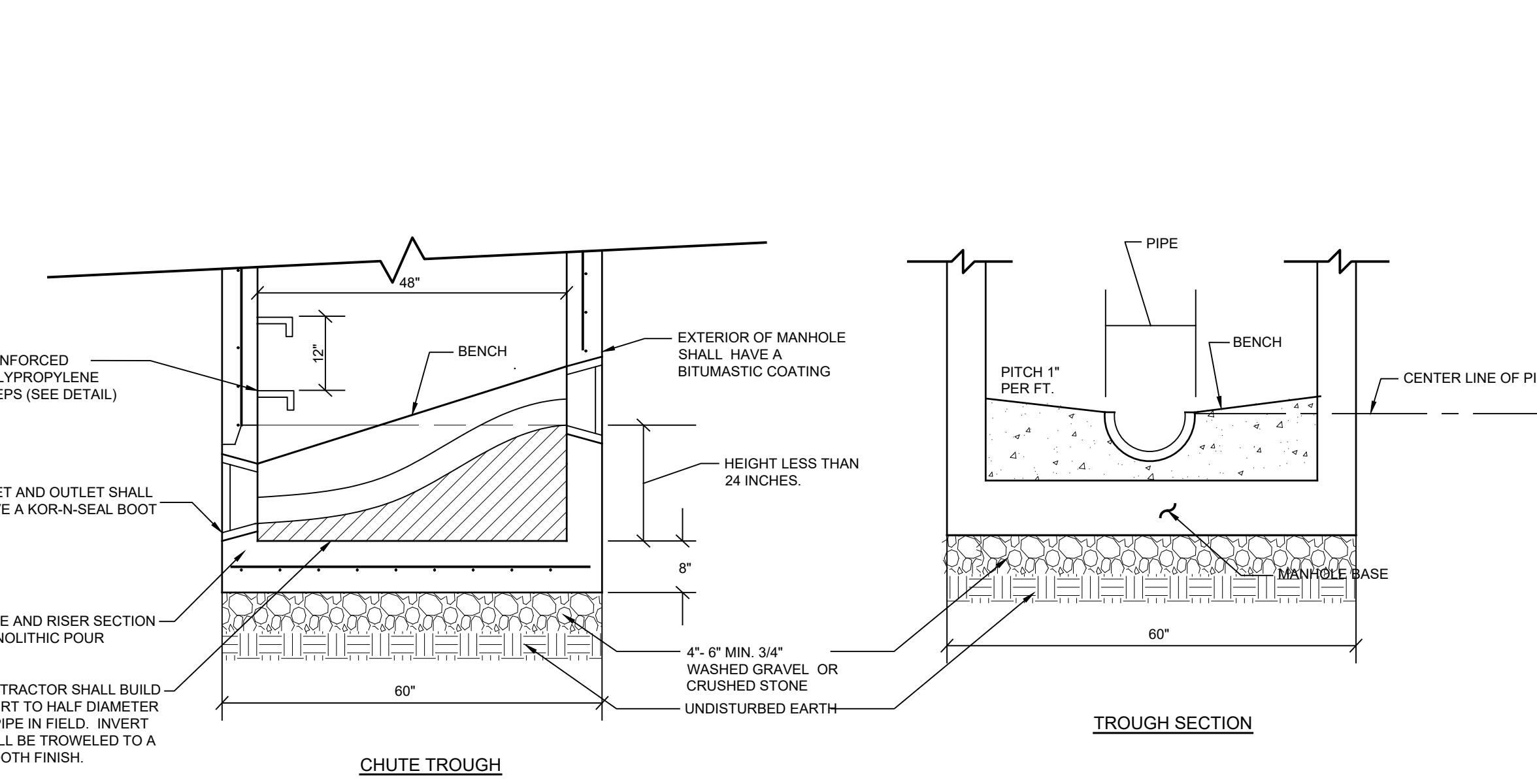
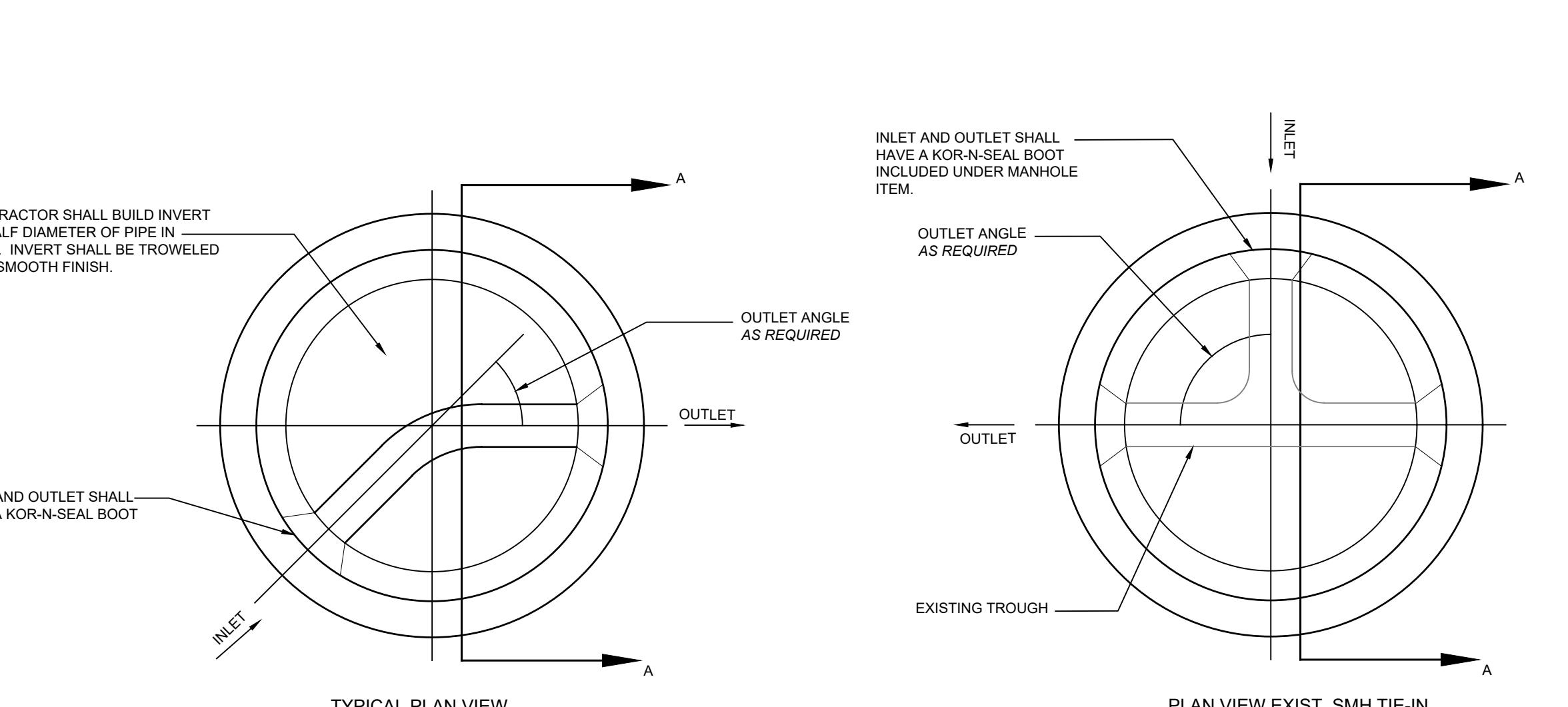
**S-2** **GRAVITY SEWER LATERAL CLEAN-OUT DETAIL**  
NOT TO SCALE

**S-6** **EXISTING SANITARY FLEXIBLE CONNECTION**  
NOT TO SCALE

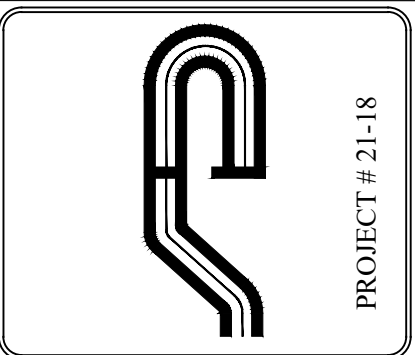


**S-3** **SEWER CONNECTION TO PROPOSED MAIN-LINE DETAIL**  
NOT TO SCALE

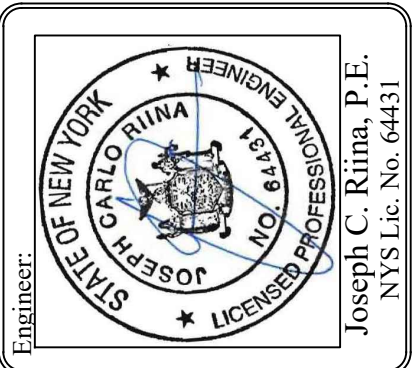
**S-4** **SEWER MAIN / SEWER SERVICE TRENCH DETAIL**  
NOT TO SCALE



**S-5** **TYPICAL DETAIL OF TIE-IN TO EXISTING SEWER MANHOLE**  
NOT TO SCALE



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Revisions:	No.	Date	Comments
	1	10/7/21	Plan Revisions

SCALE: NTS  
DRAWN BY: TK  
DATE: 5/7/21

**SEWER DETAILS**

SITE PLAN PREPARED FOR  
**NIKOLLA GRISHAJ**  
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Town of Yorktown Westchester County, New York

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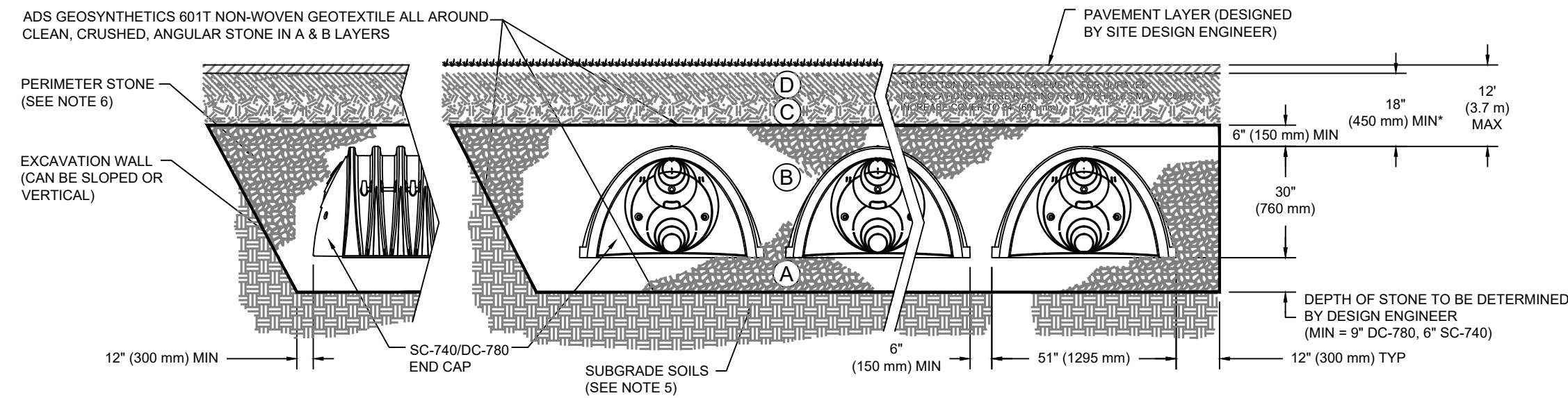
PROJECT # 21-18

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**ACCEPTABLE FILL MATERIALS: STORMTECH DC-780 CHAMBER SYSTEMS**

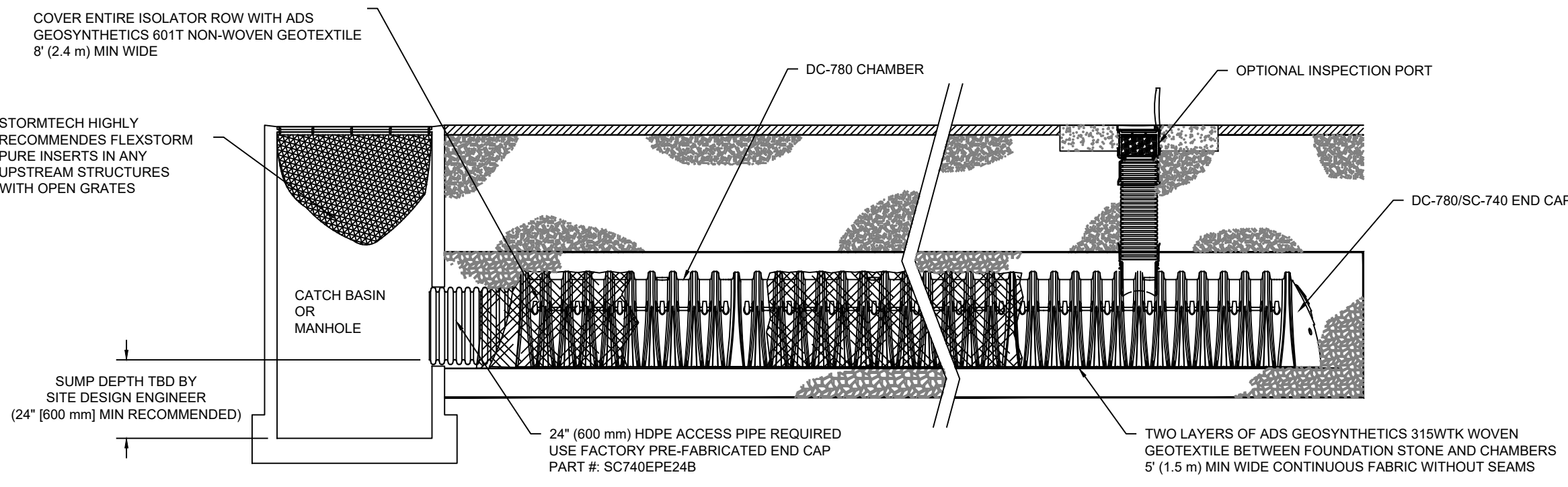
MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	<b>FINAL FILL:</b> FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	<b>INITIAL FILL:</b> FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE (B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	AASHTO M145 <sup>1</sup> A-1, A-2-4, A-3 OR AASHTO M43 <sup>1</sup> 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN), DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
B	<b>EMBEDMENT STONE:</b> FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE (A' LAYER) TO THE 'C' LAYER ABOVE.	AASHTO M43 <sup>1</sup> 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A	<b>FOUNDATION STONE:</b> FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	AASHTO M43 <sup>1</sup> 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. <sup>1</sup>

- PLEASE NOTE:
- THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR, FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE"
  - STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" (230 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
  - WHERE INFILTRATION SURFACES WILL BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.



- NOTES:**
- DC-780 CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2418 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS"<sup>1</sup>J
  - DC-780 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS"<sup>1</sup>J
  - "ACCEPTABLE FILL MATERIALS" TABLE ABOVE PROVIDES MATERIAL LOCATIONS, DESCRIPTIONS, GRADATIONS, AND COMPACTION REQUIREMENTS FOR FOUNDATION, EMBEDMENT, AND FILL MATERIALS.<sup>1</sup>J
  - THE "SITE DESIGN ENGINEER" REFERS TO THE ENGINEER RESPONSIBLE FOR THE DESIGN AND LAYOUT OF THE STORMTECH CHAMBERS FOR THIS PROJECT.<sup>1</sup>J
  - THE "SITE DESIGN ENGINEER" IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.<sup>1</sup>J
  - PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
  - ONCE LAYER 'C' IS PLACED, ANY SOIL MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.

**SW-1 STORMTECH SC-740/DC-780 CROSS SECTION DETAIL**  
NOT TO SCALE



**DC-780 ISOLATOR ROW DETAIL**  
NTS

**INSPECTION & MAINTENANCE**

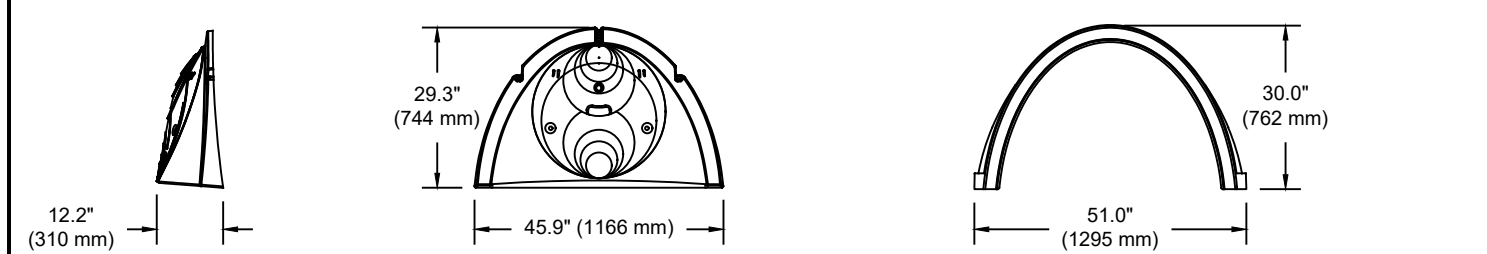
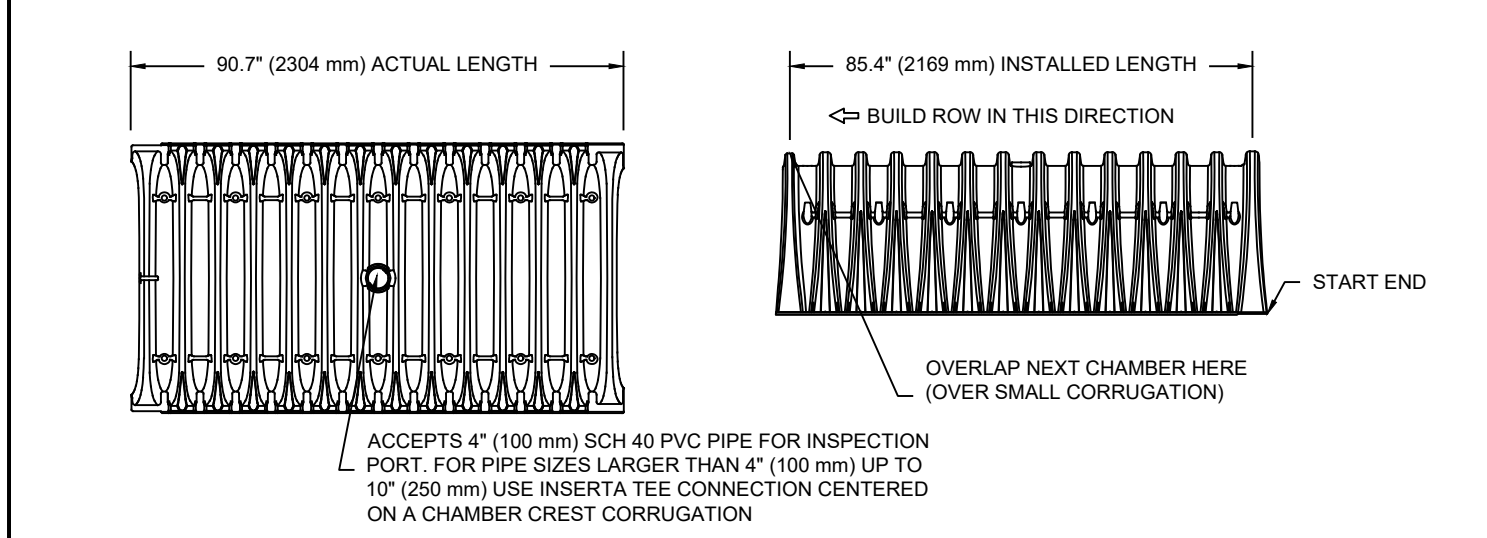
- STEP 1) INSPECT ISOLATOR ROW FOR SEDIMENT
- INSPECTION PORTS (IF PRESENT)
  - REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
  - REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
  - USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
  - LOWER A CAMERA INTO ISOLATOR ROW FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
  - IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR ROWS
- REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW
  - USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW THROUGH OUTLET PIPE<sup>(1)</sup> MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY<sup>(1)</sup> FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
  - IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- STEP 2) CLEAN OUT ISOLATOR ROW USING THE JETVAC PROCESS
- A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45° (1.1 m) OR MORE IS PREFERRED
  - APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
  - VACUUM STRUCTURE SUMP AS REQUIRED
- STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.
- STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

**NOTES**

- INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.<sup>1</sup>J
- CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

**SW-2 STORMTECH SC-740/DC-780 ISOLATOR ROW DETAIL**  
NOT TO SCALE

**DC-780 TECHNICAL SPECIFICATION**  
NTS



**NOMINAL CHAMBER SPECIFICATIONS**

SIZE (W X H X INSTALLED LENGTH)	CHAMBER STORAGE	MINIMUM INSTALLED STORAGE <sup>1</sup>	WEIGHT
51.0" X 30.0" X 85.4" (1295 mm X 762 mm X 2169 mm)	46.2 CUBIC FEET (1.30 m <sup>3</sup> )	75.4 CUBIC FEET (2.13 m <sup>3</sup> )	75.0 lbs. (33.8 kg)

<sup>1</sup>ASSUMES 6" (152 mm) STONE ABOVE, 9" (229 mm) BELOW, AND 6" (152 mm) BETWEEN CHAMBERS

STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B" STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"

PART #	STUB	A	B	C
SC740EPE08T / SC740EPE08TPC	6" (150 mm)	10.9" (277 mm)	18.5" (470 mm)	0.5" (13 mm)
SC740EPE08B / SC740EPE08BPC	6" (150 mm)	12.2" (310 mm)	16.5" (419 mm)	0.6" (15 mm)
SC740EPE10T / SC740EPE10TPC	10" (250 mm)	13.4" (340 mm)	14.5" (368 mm)	0.7" (18 mm)
SC740EPE10B / SC740EPE10BPC	10" (250 mm)	14.7" (373 mm)	12.5" (318 mm)	0.8" (20 mm)
SC740EPE12T / SC740EPE12TPC	12" (300 mm)	14.7" (373 mm)	9.0" (229 mm)	1.2" (30 mm)
SC740EPE12B / SC740EPE12BPC	12" (300 mm)	15.0" (381 mm)	9.0" (229 mm)	1.3" (33 mm)
SC740EPE15T / SC740EPE15TPC	15" (375 mm)	18.4" (467 mm)	5.0" (127 mm)	1.6" (41 mm)
SC740EPE15B / SC740EPE15BPC	15" (375 mm)	19.7" (500 mm)	18.5" (470 mm)	0.1" (3 mm)
SC740EPE18T / SC740EPE18TPC	18" (450 mm)	19.7" (500 mm)	18.5" (470 mm)	0.1" (3 mm)
SC740EPE18B / SC740EPE18BPC	24" (600 mm)	18.5" (470 mm)	---	---

ALL STUBS, EXCEPT FOR THE SC740EPE24B ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2694.

<sup>1</sup> FOR THE SC740EPE24B THE 24" (600 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 1.75" (44 mm). BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL.

NOTE: ALL DIMENSIONS ARE NOMINAL

**SW-3 STORMTECH SC-740/DC-780 CHAMBER DETAIL**  
NOT TO SCALE

**STORMTECH CHAMBER SPECIFICATIONS**

- CHAMBERS SHALL BE STORMTECH DC-780 OR APPROVED EQUAL.<sup>1</sup>J
- CHAMBERS SHALL BE MADE FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.<sup>1</sup>J
- CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORT PANELS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
- THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LIVED BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- CHAMBERS SHALL BE DESIGNED AND ALLOWABLE LOADS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. THE CHAMBER MANUFACTURER SHALL SUBMIT THE FOLLOWING UPON REQUEST TO THE SITE DESIGN ENGINEER FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE:
  - A STRUCTURAL EVALUATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.65 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD. THE MINIMUM REQUIRED BY ASTM F2787 AND BY AASHTO FOR THERMOPLASTIC PIPE.<sup>1</sup>J
  - A STRUCTURAL EVALUATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET. THE 50 YEAR CREEP MODULUS DATA SPECIFIED IN ASTM F2418 OR ASTM F2922 MUST BE USED AS PART OF THE AASHTO STRUCTURAL EVALUATION TO VERIFY LONG-TERM PERFORMANCE.<sup>1</sup>J
  - STRUCTURAL CROSS SECTION DETAIL ON WHICH THE STRUCTURAL EVALUATION IS BASED.<sup>1</sup>J
- CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

**IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE DC-780 CHAMBER SYSTEM**

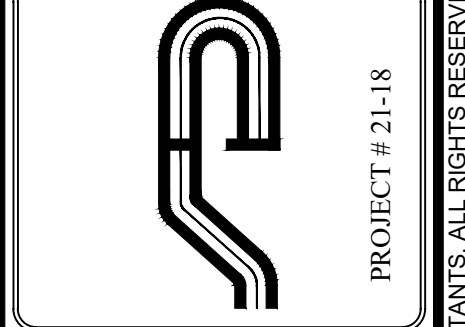
- STORMTECH DC-780 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.<sup>1</sup>J
- STORMTECH DC-780 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".<sup>1</sup>J
- CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS.<sup>1</sup>J
- STORMTECH RECOMMENDS 3 BACKFILL METHODS:
  - STONE SHOOTER LOCATED OFF THE CHAMBER BED.
  - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
  - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
- THE FOUNDATION STONE SHALL BE LEVELLED AND COMPACTED PRIOR TO PLACING CHAMBERS.<sup>1</sup>J
- JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.<sup>1</sup>J
- MAINTAIN MINIMUM - 6" (150 mm) SPACING BETWEEN THE CHAMBER ROWS.<sup>1</sup>J
- EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE 3/4-2" (20-50 mm).<sup>1</sup>J
- THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.<sup>1</sup>J
- ADS RECOMMENDS THE USE OF FLEXSTORM CATCH-IT INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

**NOTES FOR CONSTRUCTION EQUIPMENT<sup>1</sup>J**

- STORMTECH DC-780 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".<sup>1</sup>J
- THE USE OF CONSTRUCTION EQUIPMENT OVER DC-780 CHAMBERS IS LIMITED:
  - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
  - NO RUBBER Tired LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
  - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".<sup>1</sup>J
- FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.



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



Revisions:

No.	Date	Comments	Plan Revisions
1	10/7/21		

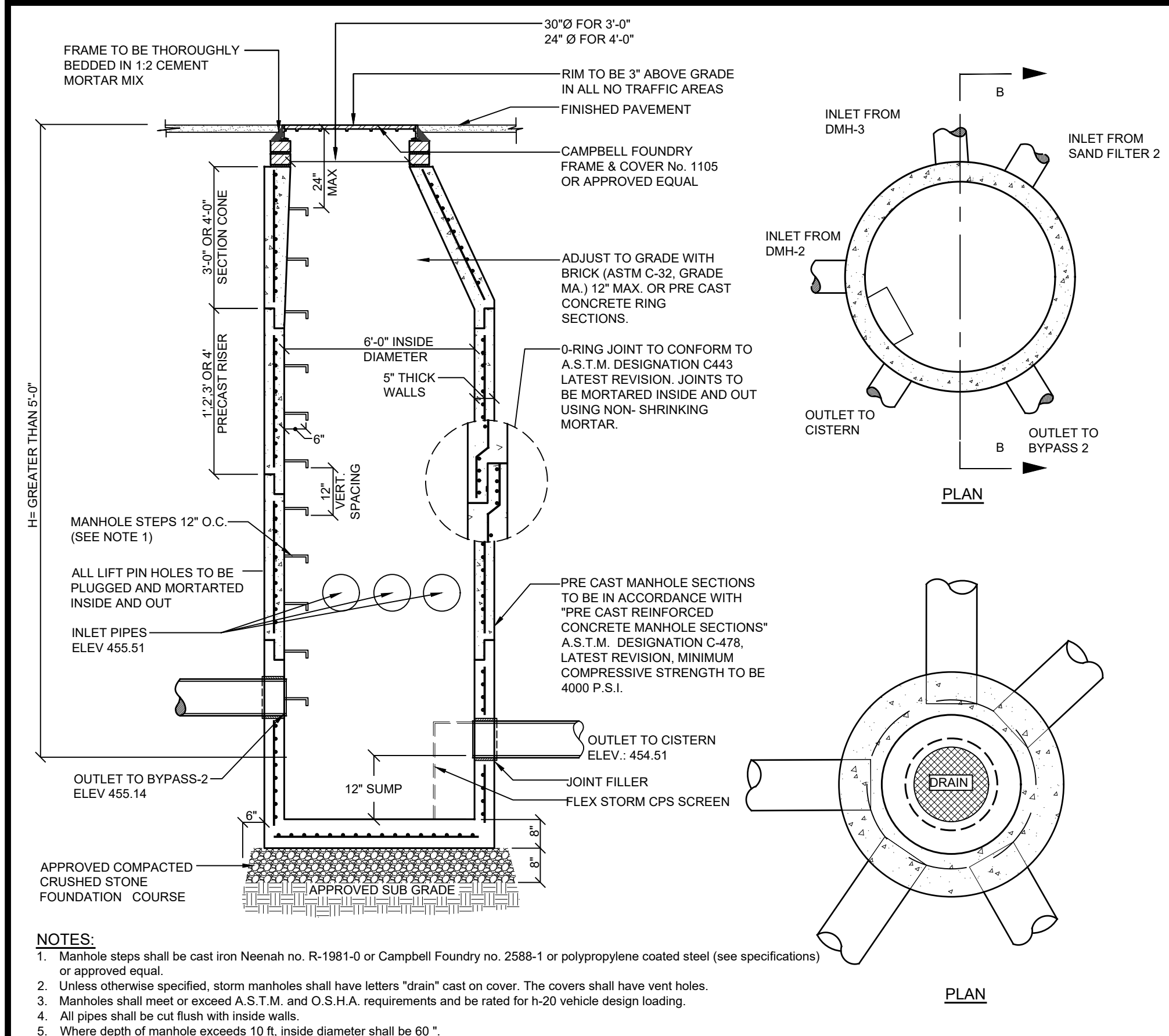
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DRAWN BY: TK  
DATE: 5/7/21

**STORMTECH**  
**DETAILS**

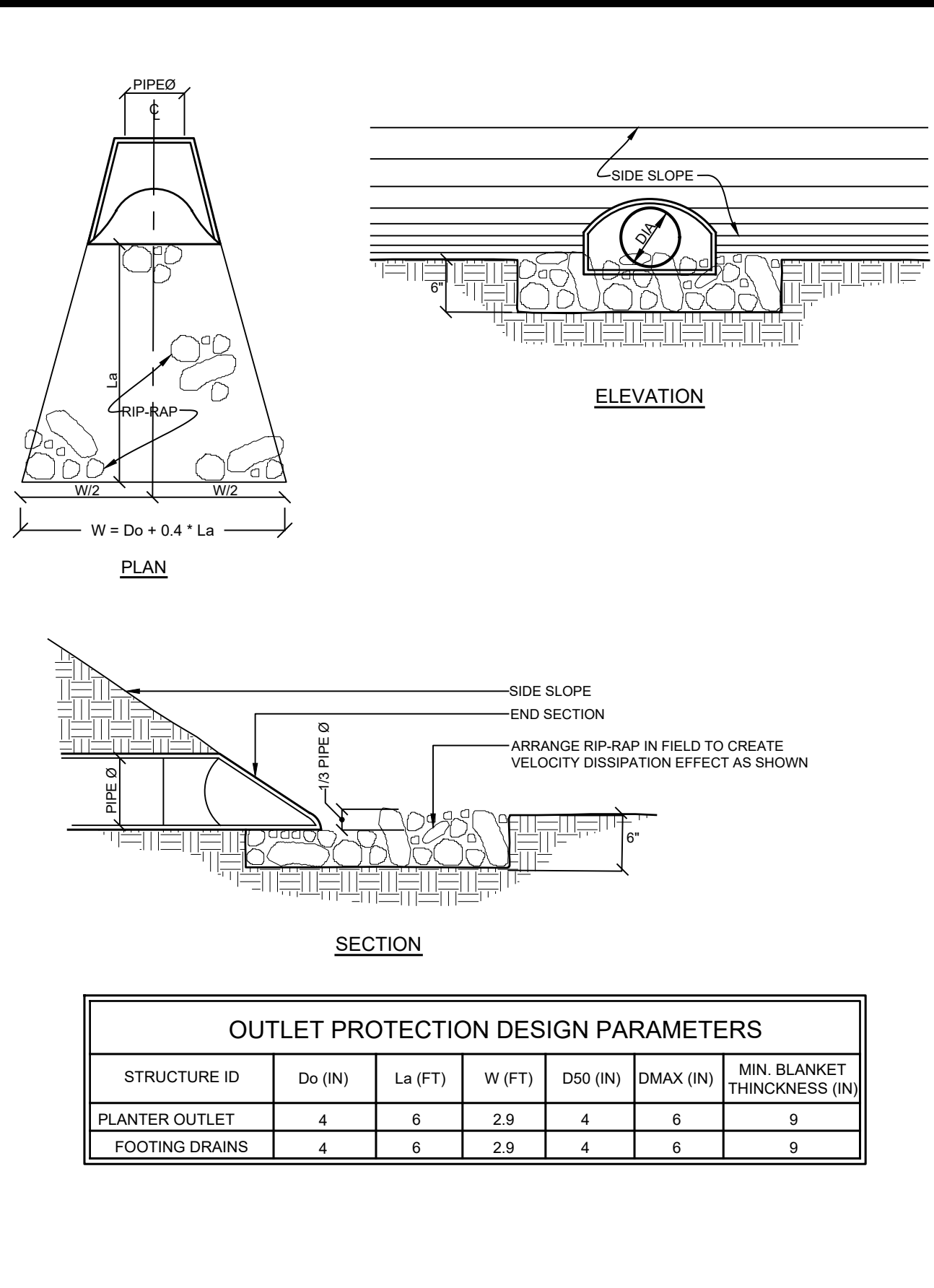
SITE PLAN PREPARED FOR  
**NIKOLA GRISHAJ**  
3319 STONY STREET  
Town of Yorktown  
Westchester County, New York

E:\2021\21-18 GRISHAJ - STONY STREET\ENGINEERING\CADD\CD-21-18 GRISHAJ - STONY STREET\DETAILS\16-DETAILS-16-20-21.DWG

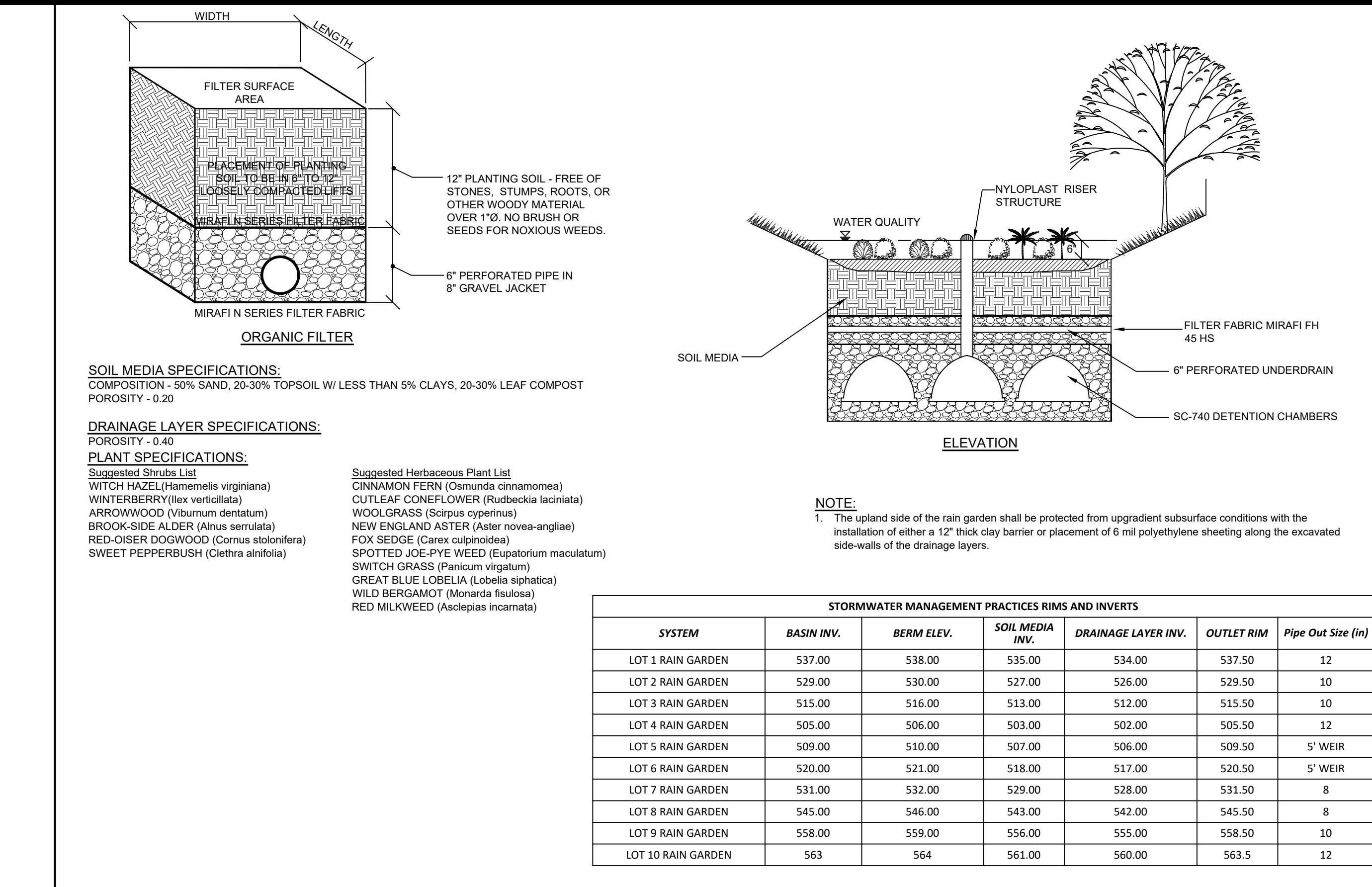
COPYRIGHT © 2012 BY SITE DESIGN CONSULTANTS. ALL RIGHTS RESERVED.



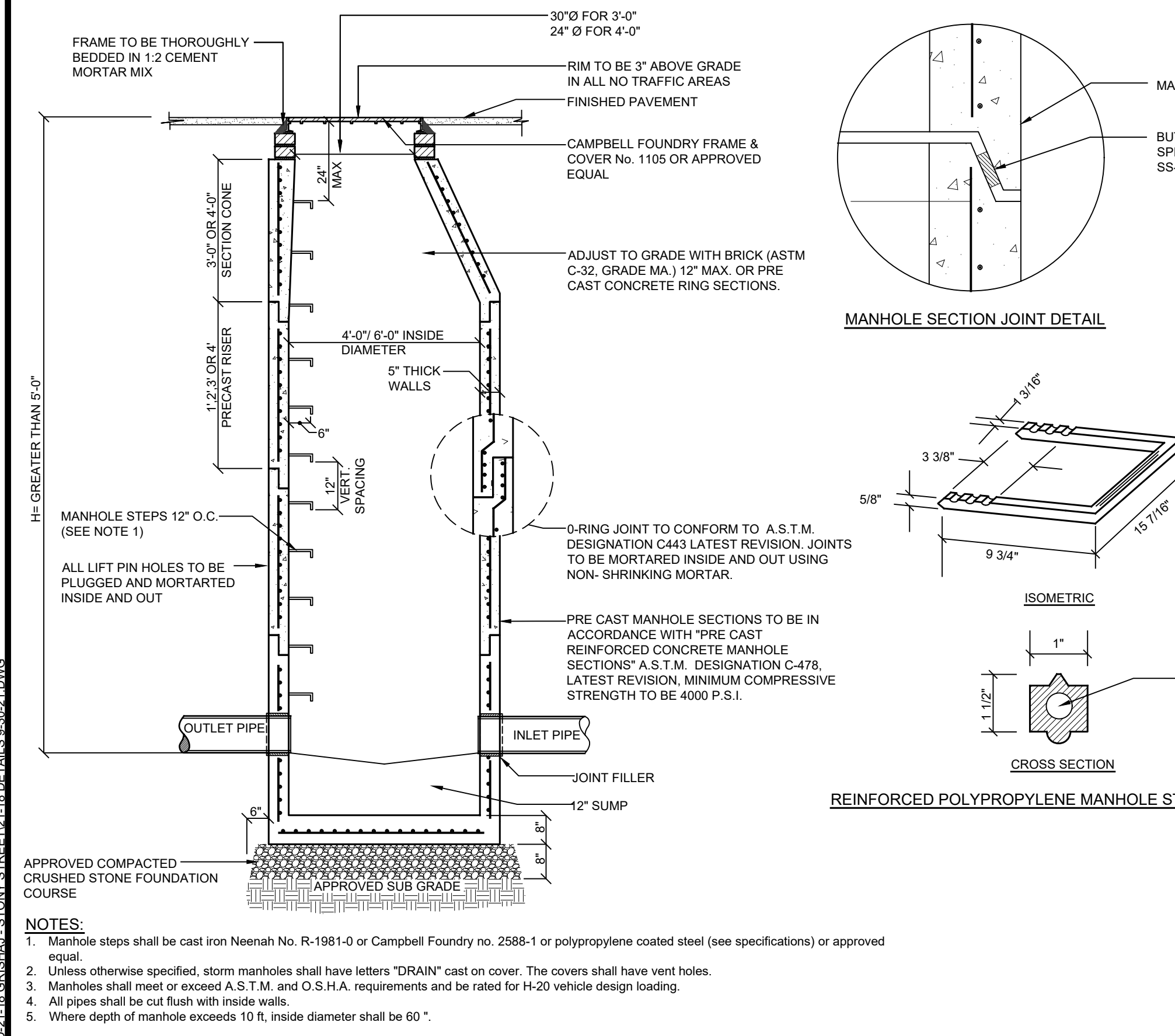
**D-1** STORM BYPASS 2 STRUCTURE DETAIL  
NOT TO SCALE



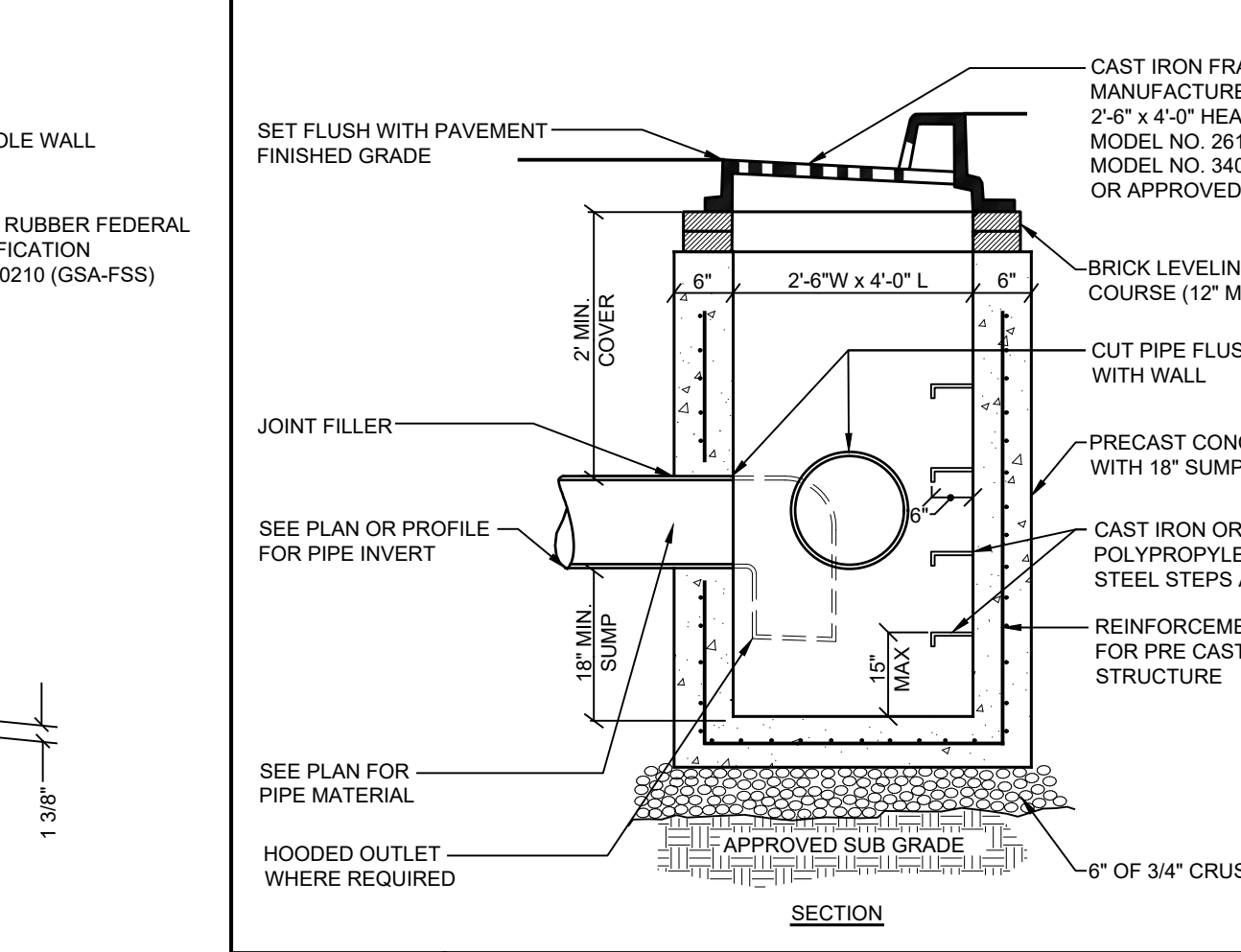
**D-7** RIP-RAP APRON/ENERGY DISSIPATOR DETAIL  
NOT TO SCALE



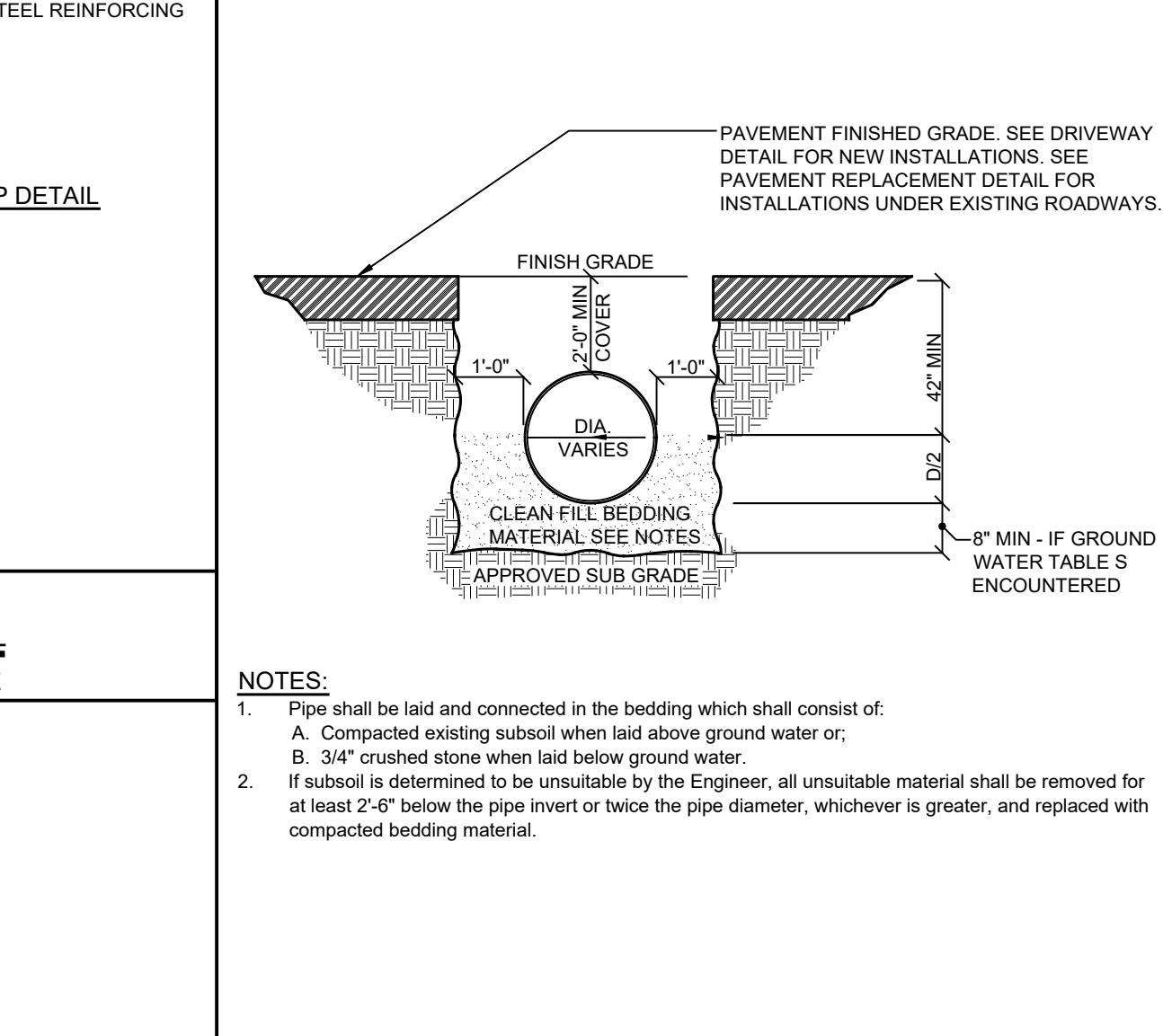
**SWM-7** TYPICAL BIORETENTION DETAIL  
NOT TO SCALE



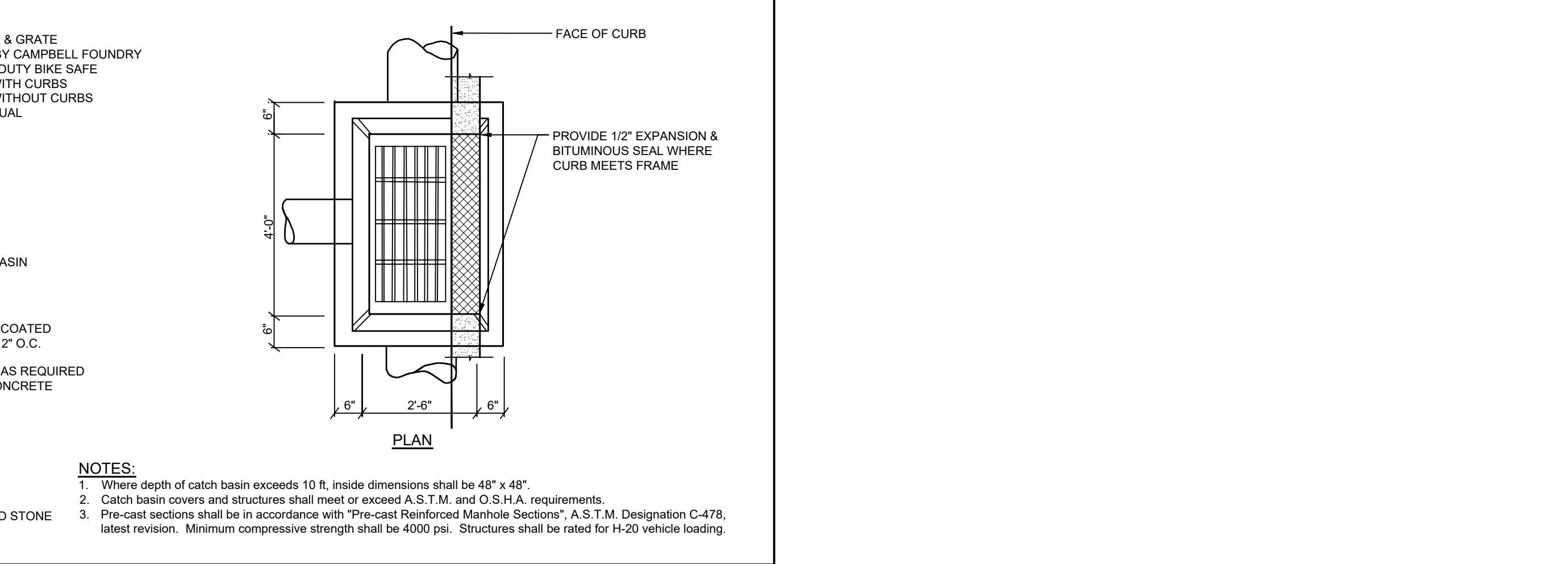
**D-8** PRECAST CONCRETE STORM DRAIN MANHOLE DETAIL  
NOT TO SCALE



**D-4** TYPICAL CATCH BASIN DETAIL  
NOT TO SCALE



**D-5** STORM PIPE BEDDING DETAIL  
NOT TO SCALE



**D-6** ROOF & FOOTING DRAIN CONNECTION DETAIL  
NOT TO SCALE

**STORMWATER MANAGEMENT PRACTICES RIMS AND INVERTS**

SYSTEM	BASIN INV.	BERM ELEV.	SOIL MEDIA INV.	DRAINAGE LAYER INV.	OUTLET RIM	Pipe Out Size (in)
LOT 1 RAIN GARDEN	537.00	538.00	535.00	534.00	537.50	12
LOT 2 RAIN GARDEN	529.00	530.00	527.00	526.00	529.50	10
LOT 3 RAIN GARDEN	515.00	516.00	513.00	512.00	515.50	10
LOT 4 RAIN GARDEN	505.00	506.00	503.00	502.00	505.50	12
LOT 5 RAIN GARDEN	509.00	510.00	507.00	506.00	509.50	5' WEIR
LOT 6 RAIN GARDEN	520.00	521.00	518.00	517.00	520.50	5' WEIR
LOT 7 RAIN GARDEN	531.00	532.00	529.00	528.00	531.50	8
LOT 8 RAIN GARDEN	545.00	546.00	543.00	542.00	545.50	8
LOT 9 RAIN GARDEN	558.00	559.00	556.00	555.00	558.50	10
LOT 10 RAIN GARDEN	563	564	561.00	560.00	563.5	12

E:\2024\218 GRISHAJ - STONY STREET\ENGINEERING\CD\218 GRISHAJ - STONY STREET\15 DETAILS\9.20.24.DWG

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PROJECT # 21-18

Professional Engineer  
JOSEPH C. RIINA, P.E.  
NYS Lic. No. 64431

Revisions:  
No. | Date | Comments | Plan Revisions


SCALE: NTS  
DRAWN BY: TK  
DATE: 5/7/21

**DRAINAGE DETAILS**

SITE PLAN PREPARED FOR  
**NIKOLLA GRISHAJ**  
3319 STONY STREET  
Town of Yorktown  
Westchester County, New York

Sheet 17 of 17

**3713 Crompond Rd**

# Site Design Consultants

Civil Engineers • Land Planners

October 6, 2021

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

RECEIVED  
PLANNING DEPARTMENT

OCT 7 2021

TOWN OF YORKTOWN

Re: 3717 Crompond Road LLC  
Section 35.8 Block 1 Lot 13

Dear Robyn:

We are submitting the following new project for review by the Planning Board at the October 18 Meeting. The property owner is proposing to demolish the existing building and construct one new warehouse building which will be 20,370 SF. A portion of the warehouse will include lofted offices. No variances are required. Town water and sewer is existing.

Enclosed please find the following items being submitted for distribution and discussion at the Planning Board Meeting.

- Town of Yorktown Site Plan pre-preliminary application with associated \$100 fee;
- Short EAF;
- Six prints of plan titled "Site Plan Prepared for 3717 Crompond Road," Sheet 1 of 1, dated 10-6-21.

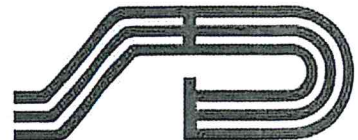
We are also forwarding you a digital copy of this submission. Please add this project to the agenda for the Planning Board Meeting of October 18 and contact us if you have any questions. Thank you.

Yours Truly,

  
Joseph C. Riina, P.E.

Cc: 3717 Crompond Road LLC  
Building Department  
Engineering Department  
Town Supervisor  
Ed Lachterman

JCR / cm / Enc. / sdc 11-34



# TOWN OF YORKTOWN PLANNING BOARD

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

## PRE-PRELIMINARY APPLICATION

Date 10-6-2021

1. Tax Map Designation: Section 35.8 Block 1 Lot 13

2. Zone: C-4 Acreage: 1.565

3. Type of Development:  Site Plan  Subdivision

4. If subdividing, how many total lots are proposed? \_\_\_\_\_

5. A brief description of the proposed development:

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PLANNING DEPARTMENT  
OCT 7 2021  
TOWN OF YORKTOWN

It is proposed to demolish an existing building on the site and build a new 20,370 sf two story warehouse/office building. The first floor of the building will be used as warehouse space and will have a loading dock area for vehicles. The second story part of the building will occupy only the rear third of the building. This will serve as office space for the proposed warehouse. Project access will be provided off of Crompond road for the warehouse space and off of old crompond road for the office space. Parking will be provide at these locations as well. An exterior stair will connect the two parking areas.

6. Applicant:

Name Paul Guillaro  
Firm 3717 Crompond Road LLC  
Address 10 Julia Lane Ste 103  
Cold Spring, NY 10567  
Phone 845-809-5969  
Fax \_\_\_\_\_  
Email pquillaro@unicorncontracting.com

7. Owner of Record:

Name Same As Applicant  
Address \_\_\_\_\_  
Phone \_\_\_\_\_  
Fax \_\_\_\_\_  
Email \_\_\_\_\_

8. Designated contact person for this application:

Name Joseph Riina  
Fax # 914-962-7386  
Email jrina@sitedesignconsultants.com

**Applicant**

\_\_\_\_\_  
SIGNATURE

\_\_\_\_\_  
PRINT NAME

\_\_\_\_\_  
DATE

**Owner of Record**

x Paul Guillaro  
SIGNATURE

Paul Guillaro  
PRINT NAME

10-6-2021  
DATE

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



# Short Environmental Assessment Form

## Part 1 - Project Information

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OCT 7 2021

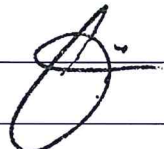
TOWN OF YORKTOWN

### Instructions for Completing

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

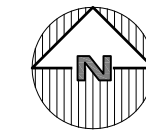
Complete all items in Part 1. You may also provide any additional information which you believe will be needed by or useful to the lead agency; attach additional pages as necessary to supplement any item.

<b>Part 1 – Project and Sponsor Information</b>			
Name of Action or Project: 3717 Crompond Road			
Project Location (describe, and attach a location map): 3717 Crompond Road			
Brief Description of Proposed Action: It is proposed to demolish an existing building on the site and build a new 20,370 sf two story warehouse/office building. The first floor of the building will be used as warehouse space and will have a loading dock area for vehicles. The second story part of the building will occupy only the rear third of the building. This will serve as office space for the proposed warehouse. Project access will be provided off of Crompond road for the warehouse space and off of old crompond road for the office space. Parking will be provide at these locations as well. An exterior stair will connect the two parking areas.			
Name of Applicant or Sponsor: 3717 Crompond Road LLC		Telephone: E-Mail:	
Address: 10 Julia Lane, Suite 103			
City/PO: Cold Spring		State: New York	Zip Code: 10516
1. Does the proposed action only involve the legislative adoption of a plan, local law, ordinance, administrative rule, or regulation? If Yes, attach a narrative description of the intent of the proposed action and the environmental resources that may be affected in the municipality and proceed to Part 2. If no, continue to question 2.			NO <input type="checkbox"/>
			YES <input type="checkbox"/>
2. Does the proposed action require a permit, approval or funding from any other government Agency? If Yes, list agency(s) name and permit or approval:			NO <input type="checkbox"/>
			YES <input type="checkbox"/>
3. a. Total acreage of the site of the proposed action?		1.556 acres	
b. Total acreage to be physically disturbed?		1.4 acres	
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor?		1.556 acres	
4. Check all land uses that occur on, are adjoining or near the proposed action:			
5. <input type="checkbox"/> Urban <input type="checkbox"/> Rural (non-agriculture) <input type="checkbox"/> Industrial <input checked="" type="checkbox"/> Commercial <input checked="" type="checkbox"/> Residential (suburban)			
<input checked="" type="checkbox"/> Forest <input type="checkbox"/> Agriculture <input type="checkbox"/> Aquatic <input type="checkbox"/> Other(Specify):			
<input type="checkbox"/> Parkland			

14. Identify the typical habitat types that occur on, or are likely to be found on the project site. Check all that apply:		
<input type="checkbox"/> Shoreline <input checked="" type="checkbox"/> Forest <input type="checkbox"/> Agricultural/grasslands <input type="checkbox"/> Early mid-successional <input type="checkbox"/> Wetland <input type="checkbox"/> Urban <input type="checkbox"/> Suburban		
15. Does the site of the proposed action contain any species of animal, or associated habitats, listed by the State or Federal government as threatened or endangered?	NO	YES
	<input checked="" type="checkbox"/>	<input type="checkbox"/>
16. Is the project site located in the 100-year flood plan?	NO	YES
	<input type="checkbox"/>	<input checked="" type="checkbox"/>
17. Will the proposed action create storm water discharge, either from point or non-point sources? If Yes,  a. Will storm water discharges flow to adjacent properties?  b. Will storm water discharges be directed to established conveyance systems (runoff and storm drains)? If Yes, briefly describe:  Runoff will be collected and detained on site and released at a controlled rate.	NO	YES
	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>
18. Does the proposed action include construction or other activities that would result in the impoundment of water or other liquids (e.g., retention pond, waste lagoon, dam)? If Yes, explain the purpose and size of the impoundment:	NO	YES
	<input checked="" type="checkbox"/>	<input type="checkbox"/>
19. Has the site of the proposed action or an adjoining property been the location of an active or closed solid waste management facility? If Yes, describe:	NO	YES
	<input checked="" type="checkbox"/>	<input type="checkbox"/>
20. Has the site of the proposed action or an adjoining property been the subject of remediation (ongoing or completed) for hazardous waste? If Yes, describe:	NO	YES
	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>I CERTIFY THAT THE INFORMATION PROVIDED ABOVE IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE</b>  Applicant/sponsor/name: <u>Joseph C. Rima, P.E.</u> Date: <u>10-7-21</u> Signature: <u></u> Title: <u>Design Engineer</u>		



LOCATION MAP  
NOT TO SCALE



**SITE DATA:**

OWNER / DEVELOPER: 3717 CROMPOND ROAD, LLC  
10 JULIA LANE, SUITE 103  
COLD SPRING, NY 10516  
PROJECT LOCATION: 3717 CROMPOND ROAD  
TOWN OF YORKTOWN  
EXISTING TOWN ZONING: C-4, BUSINESS  
PROPOSED USE: C-4, BUSINESS  
TOWN TAX MAP DATA: SECTION 35.8, BLOCK 1, LOT 13  
SITE AREA: 1.556 ACRES (67,795 SF)  
SEWAGE FACILITIES: PUBLIC SEWERS  
WATER FACILITIES: PUBLIC WATER FACILITIES

**ZONING SCHEDULE:**

ZONING DISTRICT: C-4, BUSINESS			
DIMENSIONAL REGULATIONS:	REQUIRED	PROVIDED	VARIANCE REQUIRED
MINIMUM SIZE OF LOT:			
MINIMUM LOT AREA:	NONE	67,795 SF.	NONE
MINIMUM LOT WIDTH AT MAIN BUILDING:	25 FT	178 FT.	NONE
MINIMUM LOT DEPTH:	100 FT	347.74 FT.	NONE
MINIMUM YARD DIMENSIONS:			
PRINCIPAL BUILDING:			NONE
FRONT YARD SETBACK:	15 FT.	46.4 FT	NONE
REAR YARD SETBACK:	30 FT.	82.9 FT.	NONE
SIDE YARD SETBACK:	NONE - SEE NOTE - 1	15.3 FT.	NONE
ACCESSORY BUILDINGS:			
FRONT YARD SETBACK:	15 FT.	NA	NONE
REAR YARD SETBACK:	30 FT.	NA	NONE
SIDE YARD SETBACK:	NONE - SEE NOTE - 1	NA	NONE
MAXIMUM % OF LOT TO BE OCCUPIED:			
BUILDING COVERAGE (ALL BUILDINGS):	30% OF LOT AREA	30 % OF LOT AREA	NONE
MAXIMUM HEIGHT:			
PRINCIPAL BUILDING - FEET:	35 FEET	35 FT MAX	NONE
ACCESSORY BUILDING - FEET:	20 FEET	NA	NONE
REQUIRED OFF STREET LOADING:			
	SEE NOTE - 2	1	NONE
REQUIRED OFF STREET PARKING:			
	SEE TABLE & NOTE - 3		NONE

**ZONING REGULATION NOTES:**

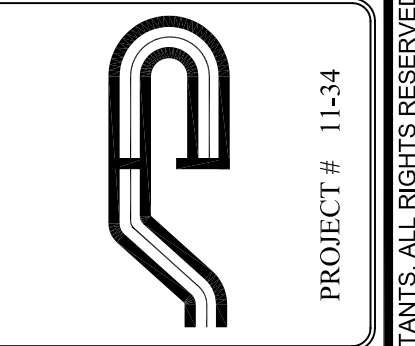
- None, but if provided shall be 10 feet; if used as one-way vehicular access, shall be 17 feet; two way vehicular access, 25 feet; if adjoins an R-District, shall be 50 feet.
- Spaces as required by § 300-186 of the Code of the Town of Yorktown.
- Parking plan approval required in accordance with § 300-179 through § 300-182 and § 300-183 through § 300-186.
- Separate structures less than 500 square feet shall not be permitted.

**GENERAL NOTE:**

- Stormwater management facilities are schematic only and do not reflect the final design. Subsurface infiltration or other means may be required.

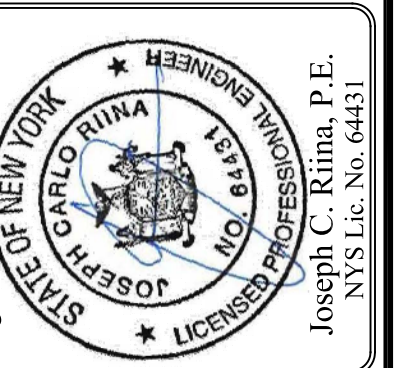
**PARKING SCHEDULE: OFFICE/WHOLESALE, STORAGE, UTILITY OR OTHER COMMERCIAL**

PROPOSED USE:	
WAREHOUSE BUILDING:	1 SPACE PER 2 PERSONS FOR WHICH THE BUILDING IS DESIGNED
OFFICE:	4 SPACES PER 1,000 SF OF OFFICE
REQUIRED PARKING:	12 WAREHOUSE SPACES WITH 6 EMPLOYEES: 36 SPACES 10,000 SF OF OFFICE: 40 SPACES 76 SPACES
PROVIDED PARKING:	78 STANDARD



PROJECT # 11-34

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



Revisions:	No.	Date	Comments

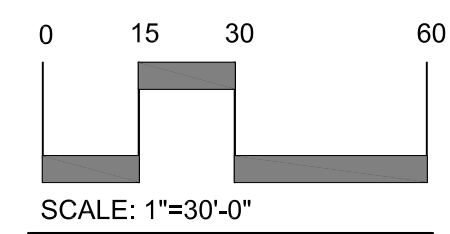
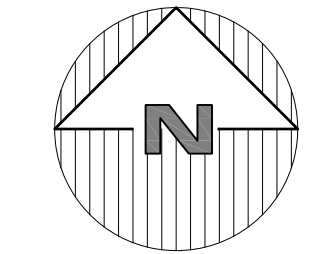
SCALE: 1" = 30'	DRAWN BY: TK	DATE: 10/6/21
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**CONCEPT PLAN**

SITE PLAN PREPARED FOR  
**3717 CROMPOND ROAD**  
3717 CROMPOND ROAD  
Town of Yorktown, New York

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

NOTE: UNAUTHORIZED ALTERATIONS OR ADDITIONS TO THIS DRAWING IS A VIOLATION OF SECTION 7209.1(2) OF THE NEW YORK STATE EDUCATION LAW.



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**Town Board Referral  
Almeida Wetland/  
SWPPP Permit**

January 20, 2021

Matt Slater, Town Supervisor  
Town of Yorktown  
363 Underhill Avenue  
Yorktown Heights, NY 10598

Re: Heitor Almeida  
1875 Brookdale Street, Yorktown

Dear Supervisor Slater and Members of the Town Board:

The following is a revised submission for the referenced property. The submission hopefully addresses questions and concerns raised during the last work session by responding to the Town Engineers Memorandum dated January 6, 2021. Please find the following responses in order of the TE comments.

1. An updated Short Form Environmental Assessment Form is included in this submittal.
2. We have shown the sub-surface infiltration units in the reported location as was originally shown on the approved site plan when the home was built.
3. We have included details of the retaining wall including elevations and construction details as per the precast block manufacturer.
4. We have prepared a table on the site plan which compares disturbances within the buffer and wetland between the original 2016 approved plan and the current conditions/proposal. The latest plan shows a slight reduction in encroachment into the wetlands as well as some mitigation measures from the plan last reviewed. These measures include a split rail fence to delineate the limit of the wetland to avoid future expansion as well trees being planted behind it. Also, the debris piles of collected tree limbs and branches will be removed. It is proposed to clean the area disturbed within the wetland and planting a wetland seed mix to restore the area. Some additional trees were also provided at the back right corner of the site to add screening to benefit the property owner at 161 Halyan Road. Also, the shed was in the buffer and not in the wetland. It was however moved a little further uphill from the wetland line.
5. See response 4.
6. We have proposed mitigation by providing wetland seed mix in the areas disturbed with the debris piles as well as an area between. This will hopefully offset the additional wetland disturbance. Except for a small 370 sf area, the buffer being improved was previously disturbed and mitigated when the home was constructed. The amount of new wetland and



Matt Slater, Supervisor  
Members of the Town Board  
January 20, 2021  
Page 2 of 2

buffer disturbance is 3,505 sf and the mitigation proposed is 4,000 sf. The wetland disturbance includes additional filling in of the wetland with 52 cy of fill amounting to an area of 715 sf. The remaining is an estimated 2,240 sf of other areas disturbed due to the activity of cutting up and cleaning out of dead and fallen trees and other items such as empty beer and liquor bottles, trash, and a car engine block.

7. The drainage runoff from the new driveway expansion is shown to be captured and discharged into subsurface chambers similar to the existing on site system.
8. This catch basin is existing.
9. The drainage ditch is existing. It is proposed to be cleaned and restored to its original state by the applicant.

Enclosed are the following:

- Six copies of the Plans titled "Proposed Site Plan prepared for Heitor Almeida", dated 10/29/20, last revised 1-20-21, Sheets 1-3.
- Six copies of the MS4 Stormwater Management Permit Application, Wetland Permit Application, and/or Tree Permit
- Six copies of the Short Environmental Assessment Form
- Six copies of the retaining wall details

Please contact me if you have any questions. Thank you.

Yours Truly,

  
Joseph C. Riina, P.E.

Cc: D. Quast  
A. Rodriguez  
M. Quinn, P.E.  
J. Tegeder  
J. Landi  
D. Paganelli  
H. Almeida

JCR / cm / sdc 20-55



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

---

**Please Submit to the Engineering Department:  
Original Signed Application, Applicable Fees,  
**Short or Long Environmental Assessment Form,  
Two (2) Sets of Plans / Maps****

**Please Email an Additional Set of the Plans / Maps to:  
[louise@yorktownny.org](mailto:louise@yorktownny.org)**

**If your project is before the Planning Board or Town Board  
for any type of new construction, site plan or subdivision, all  
of the above must be submitted to the  
Engineering Department.**

**Submission to any other department will delay the  
application review and permit issuance process.**

**Please contact us at 962-5722, ext. 220 or 219  
with any questions.**

**Thank you for your cooperation.**

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

**Section**      37.19  
**Block**        2  
**Lot #**         23

**Approval Authority:** TE [ ] PB [ ] TB [ ]  
**Application #:** \_\_\_\_\_  
**Date Received:** \_\_\_\_\_  
**Date Issued:** \_\_\_\_\_  
**Date Expires:** \_\_\_\_\_  
**Fee Paid:**        \$ \_\_\_\_\_

**Job Site Address:** 1875 Brookdale Street  
**City/State/Zip:** Yorktown Heights, NY  
10598

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

**APPLICANT:**

**YOUR NAME:** Heitor Almeida  
**COMPANY:** \_\_\_\_\_  
**ADDRESS:** 1875 Brookdale Street  
Yorktown Heights, NY    **ZIP** 10598  
**PHONE:** ( 516 ) 286-7110  
**EMAIL:** heitorj@gmail.com

**OWNER:**

**YOUR NAME:** Same as applicant  
**COMPANY:** \_\_\_\_\_  
**ADDRESS:** \_\_\_\_\_  
\_\_\_\_\_ **ZIP** \_\_\_\_\_  
**PHONE:** (    ) \_\_\_\_\_  
**EMAIL:** \_\_\_\_\_

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

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

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



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

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

- |                       |                                     |                                    |                                     |
|-----------------------|-------------------------------------|------------------------------------|-------------------------------------|
| a. Lake/pond          | <input type="checkbox"/>            | Control area of lake/pond          | <input type="checkbox"/>            |
| b. Stream/River/Brook | <input type="checkbox"/>            | Control area of stream/river/brook | <input type="checkbox"/>            |
| c. Wetlands           | <input checked="" type="checkbox"/> | Control area of wetlands           | <input checked="" type="checkbox"/> |

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

Expansion of existing usable yard area which would require additional 52 cy of fill into wetland creating an additional 715 sf of disturbance. In addition, there are debris piles of cut brush and tree cuttings and related disturbance within the wetland estimated to be about 2,420 sf. This debris was from fallen or dead trees that were cut up and mostly removed from the site. Buffer disturbance proposed is 7,920 sf of which 370 sf was not previously disturbed. The total wetland and buffer disturbance is proposed as 11,055 sf. Additionally, a wetland permit will be required for other work in the buffer including the installation of the drainage system at the rear of the property, a retaining wall and grading in the front yard, and a small storage shed.

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

Minor regrading to smooth out rutted surface areas, filling of front yard to be supported by retaining walls, installation of drainage 175 cy of cut/fill.

**3. Tree Removal:**

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

Sizes; approximate DBH: \_\_\_\_\_

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

Reason for removal: \_\_\_\_\_

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

Tree removal contractor: \_\_\_\_\_

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

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

I, Heitor Almeida hereby authorize Joseph C. Riina, P.E. to apply for this Stormwater/Wetland Permit/Tree Permit on my behalf.

Signature:  Date: 1-20-21

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

**GENERAL CONDITIONS**

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

Heitor Almeida

\_\_\_\_\_  
PRINT NAME

  
\_\_\_\_\_  
SIGNATURE OF APPLICANT

1-28-21  
\_\_\_\_\_  
DATE

**617.20**  
**Appendix B**  
**Short Environmental Assessment Form**

**Instructions for Completing**

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

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

<b>Part 1 - Project and Sponsor Information</b>			
Heitor Almeida			
Name of Action or Project: Heitor Almeida			
Project Location (describe, and attach a location map): 1875 Brookdale Street, Yorktown Heights, NY aka SBL 37.19-2-23			
Brief Description of Proposed Action: Expansion of existing usable yard area which would require additional 52 cy of fill into wetland creating an additional 715 sf of disturbance. In addition, there are debris piles of cut brush and tree cuttings and related disturbance within the wetland estimated to be about 2,420 sf. This debris was from fallen or dead trees that were cut up and mostly removed from the site. Buffer disturbance proposed is 7,920 sf of which 370 sf was not previously disturbed. The total wetland and buffer disturbance is proposed as 11,055 sf. Additionally, a wetland permit will be required for the installation of the drainage system at the rear of the property, a retaining wall and grading in the front yard and a small storage shed.			
Name of Applicant or Sponsor: Joseph C. Riina, P.E., Site Design Consultants		Telephone: 914-962-4488	
		E-Mail: jriina@sitedesignconsultants.com	
Address: 251-F Underhill Avenue			
City/PO: Yorktown Heights		State: NY	Zip Code: 10598
1. Does the proposed action only involve the legislative adoption of a plan, local law, ordinance, administrative rule, or regulation? If Yes, attach a narrative description of the intent of the proposed action and the environmental resources that may be affected in the municipality and proceed to Part 2. If no, continue to question 2.			NO <input type="checkbox"/> YES <input checked="" type="checkbox"/>
2. Does the proposed action require a permit, approval or funding from any other governmental Agency? If Yes, list agency(s) name and permit or approval: Town of Yorktown Town Board, Planning Board, MS4			NO <input type="checkbox"/> YES <input checked="" type="checkbox"/>
3.a. Total acreage of the site of the proposed action?		_____ .96 acres	
b. Total acreage to be physically disturbed?		_____ .41 acres	
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor?		_____ .96 acres	
4. Check all land uses that occur on, adjoining and near the proposed action. <input type="checkbox"/> Urban <input type="checkbox"/> Rural (non-agriculture) <input type="checkbox"/> Industrial <input type="checkbox"/> Commercial <input checked="" type="checkbox"/> Residential (suburban) <input type="checkbox"/> Forest <input type="checkbox"/> Agriculture <input type="checkbox"/> Aquatic <input type="checkbox"/> Other (specify): _____ <input type="checkbox"/> Parkland			



18. Does the proposed action include construction or other activities that result in the impoundment of water or other liquids (e.g. retention pond, waste lagoon, dam)? If Yes, explain purpose and size: _____ _____	NO	YES
	<input checked="" type="checkbox"/>	<input type="checkbox"/>
19. Has the site of the proposed action or an adjoining property been the location of an active or closed solid waste management facility? If Yes, describe: _____ _____	NO	YES
	<input checked="" type="checkbox"/>	<input type="checkbox"/>
20. Has the site of the proposed action or an adjoining property been the subject of remediation (ongoing or completed) for hazardous waste? If Yes, describe: _____ _____	NO	YES
	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>I AFFIRM THAT THE INFORMATION PROVIDED ABOVE IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE</b>		
Applicant/sponsor name: <u>Joseph C. Riina</u>		Date: <u>1-20-2020</u>
Signature: _____		

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

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

	No, or small impact may occur	Moderate to large impact may occur
10. Will the proposed action result in an increase in the potential for erosion, flooding or drainage problems?	<input type="checkbox"/>	<input type="checkbox"/>
11. Will the proposed action create a hazard to environmental resources or human health?	<input type="checkbox"/>	<input type="checkbox"/>

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

<input type="checkbox"/>	Check this box if you have determined, based on the information and analysis above, and any supporting documentation, that the proposed action may result in one or more potentially large or significant adverse impacts and an environmental impact statement is required.
<input type="checkbox"/>	Check this box if you have determined, based on the information and analysis above, and any supporting documentation, that the proposed action will not result in any significant adverse environmental impacts.
_____	_____
Name of Lead Agency	Date
_____	_____
Print or Type Name of Responsible Officer in Lead Agency	Title of Responsible Officer
_____	_____
Signature of Responsible Officer in Lead Agency	Signature of Preparer (if different from Responsible Officer)

**PRINT**



▲ Willow

# Fortus Square Foot™

Retaining Wall System

*The Segmental Retaining Wall.....REIMAGINED*



**LIBERTYSTONE™**  
HARDSCAPING SYSTEMS  
KEEPING AMERICA BEAUTIFUL

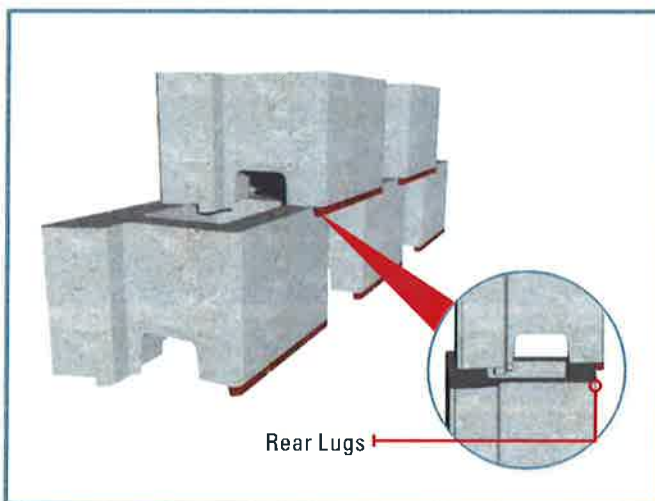
# Fortus Square Foot™ - The Retaining Wall.....**REIMAGINED**

The Fortus Square Foot™ system redefines the way retaining walls are designed and built. Ideal for everything from residential landscaping to commercial projects, Fortus Square Foot's beautiful and distinctive color blends are unsurpassed in the industry and feature a perfect combination of beauty and strength. Bring your dreams to reality through Fortus Square Foot's maximum layout creativity when building curves, corners and angles as well as set-back or near-vertical walls. Due to its patented SecureLug™ Variable Connection System, The Fortus Square Foot™ system combines durable, precast concrete with incredible ease of installation. When stacked and filled with aggregate, the lightweight and easy to handle Fortus Square Foot™ units interlock, providing high shear resistance and excellent connection strength to geosynthetic reinforcement, if required. For value, beauty, durability and ease of construction, your best choice is the Fortus Square Foot™ Retaining Wall System by LibertyStone™ Hardscaping Systems.

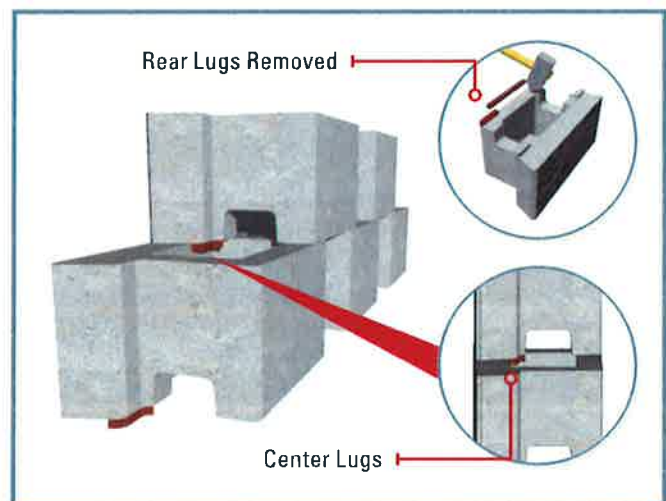


- Ultra-light weight for improved shipping and handling
- Variable SecureLug™ Connection System allows for set-back & near vertical wall installation
- Recessed “hand-holds” allow for the unit to be installed with incredible ease
- Increased vertical drainage through the units
- Strong and reliable connection between units and geosynthetic reinforcement

## Fortus Square Foot™ - SecureLug™ Variable Connection System



**USE REAR LUGS FOR TYPICAL SETBACK WALLS**



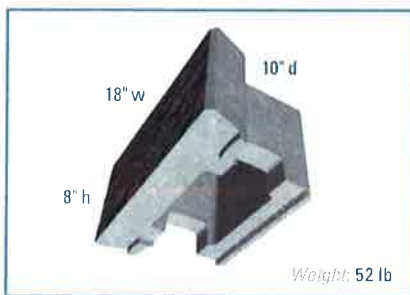
**USE CENTER LUGS FOR NEAR VERTICAL WALLS**





▲ Chestnut

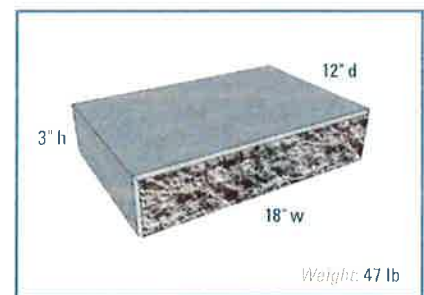
Fortus Square Foot™ has been thoroughly tested for connection and strength in accordance with the design methodology promoted by the National Concrete Masonry Association (NCMA). Fortus Square Foot's patented SecureLug™ Variable Connection System, when combined with gravel infill and geosynthetic reinforcement creates a strong, long lasting retaining wall. Fortus Square Foot™ can be built with a standard set-back, through the use of its segmented rear lugs, or installed near-vertical, by removing the rear lugs and engaging its center lugs. Regardless of which set-back that's chosen, Fortus Square Foot's Variable SecureLug™ connection system allows for significant lateral movement without losing the connection interlock. Fortus Square Foot™ walls flex with seismic pressures and resist weathering. The hollow core of each unit provides excellent drainage, reducing the buildup of hydrostatic pressure. The light weight Fortus Square Foot™ unit does not require the use of expensive pins or clips and promotes layout flexibility, while saving time and expense during installation.



**STRAIGHT FACE**



**90° CORNER**



**CAP UNIT**

**Fortus Square Foot™**  
Retaining Wall System

# Fortus Square Foot™

Retaining Wall System

Straight Face Colors



WILLOW



BRANDY



CHESTNUT



NUTMEG



WEST MOUNTAIN



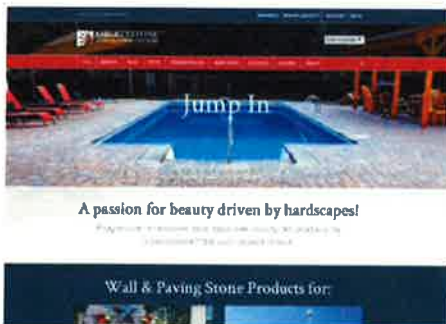
DESERT

LibertyStone™ Hardscaping Systems manufactures the Fortus Square Foot™ Retaining Wall System with some of the most beautiful and distinctive color blends in the industry. The Fortus Square Foot™ system has been designed to accommodate nearly every type of retaining wall application. Photos of our walls portrayed in this guide are approximate representations. Exact colors and appearance may vary as our products are made from 100% natural aggregates. We recommend that you make your selections from actual product samples available from your local LibertyStone™ dealer.

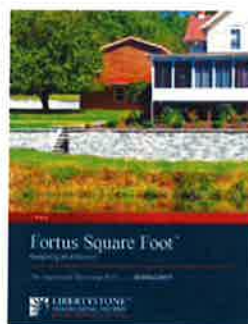
© Copyright LibertyStone™ Hardscaping Systems

FSFRWS-BR-032017

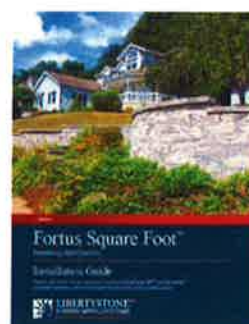
## Fortus Square Foot™ Marketing Materials



LibertyStone™ Website



General Brochures



Installation Guide



LibertyStone™ Catalog



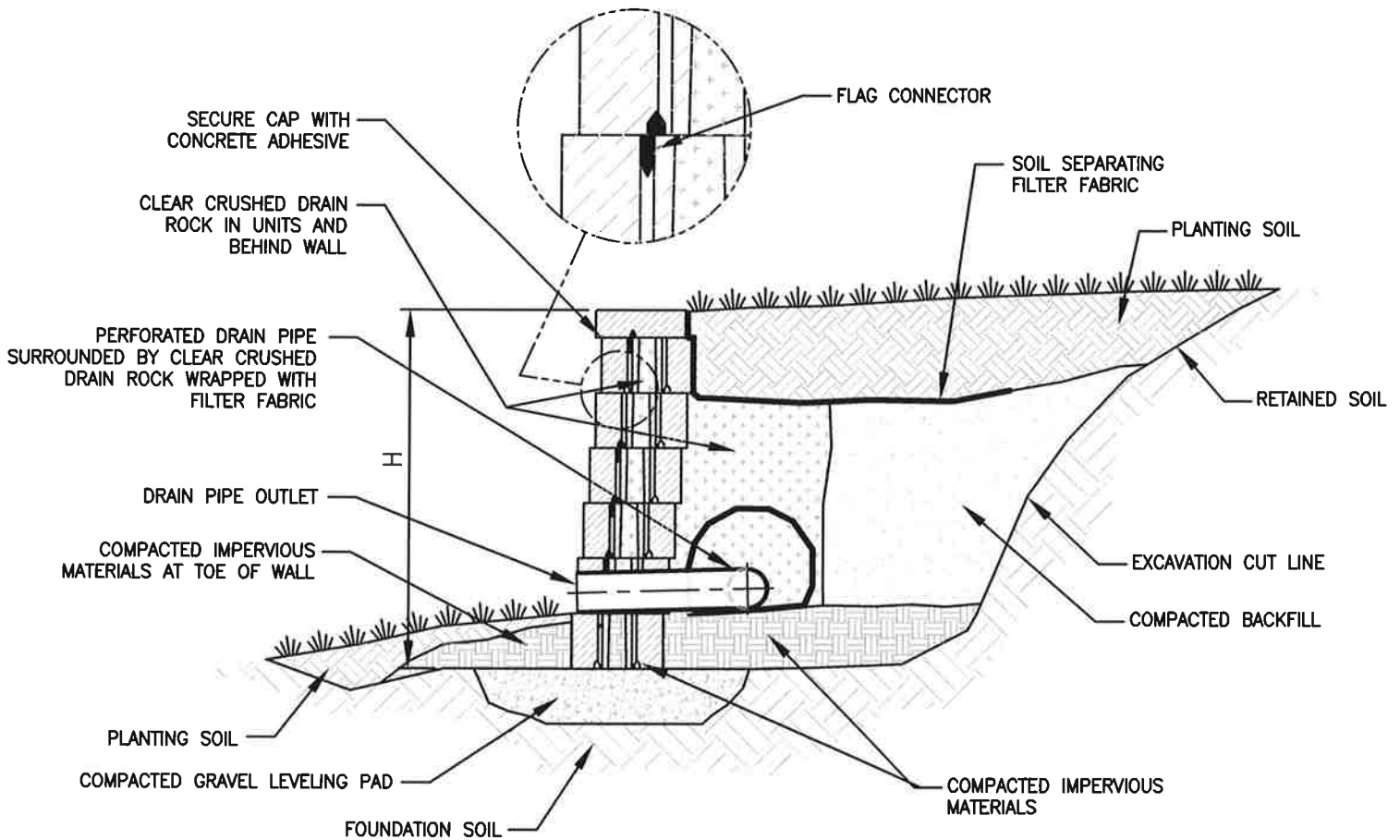
**LIBERTYSTONE™**  
**HARDSCAPING SYSTEMS**  
KEEPING AMERICA BEAUTIFUL

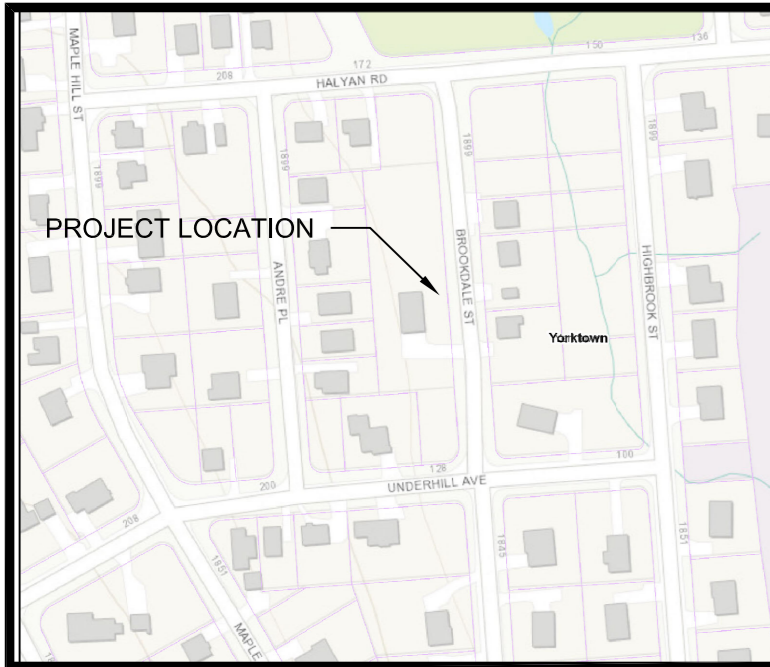
If you require more information on the Fortus™ Square Foot Retaining Wall System please visit LibertyStone online.

[www.liberty-stone.net](http://www.liberty-stone.net)

# StoneLedge 6"

>>>Gravity





**SITE DATA:**

OWNER / DEVELOPER: HEITOR ALMEIDA  
 1875 BROOKDALE STREET  
 YORKTOWN HEIGHTS, NY 10598

PROJECT LOCATION: 1875 BROOKDALE STREET  
 YORKTOWN HEIGHTS, NY, 10598

EXISTING TOWN ZONING: R1-10, SINGLE FAMILY RESIDENTIAL

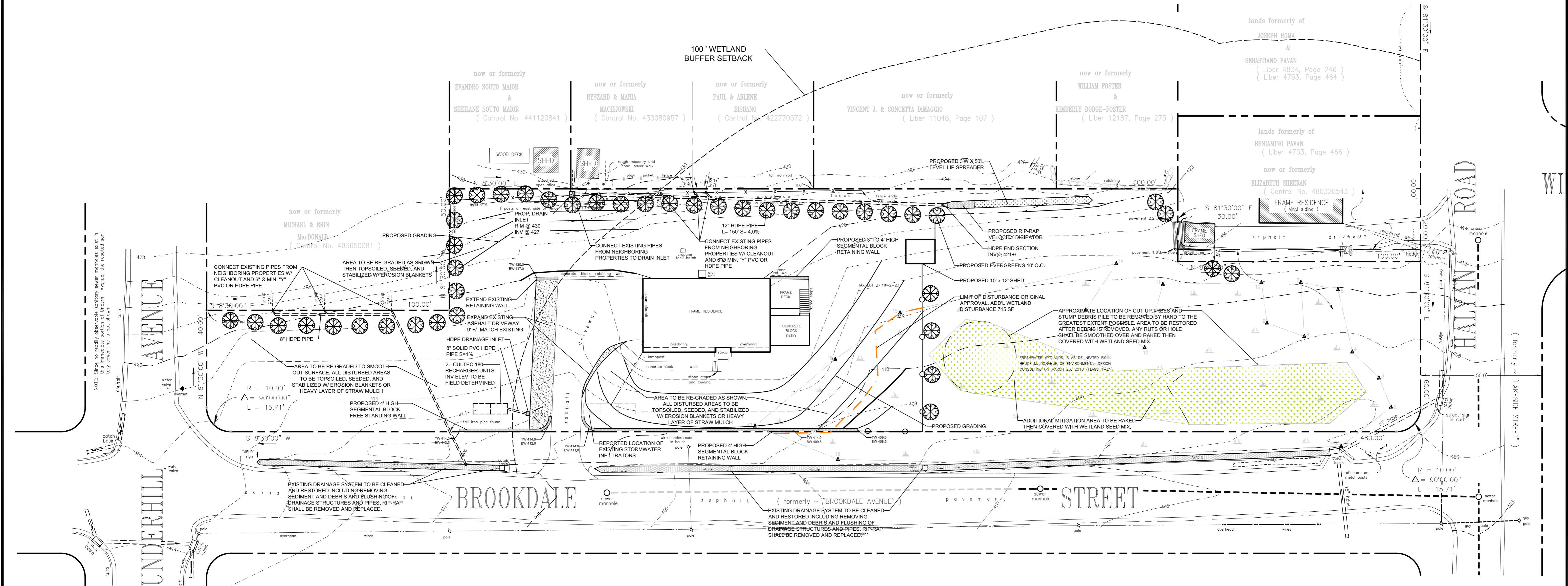
PROPOSED USE: R1-10, SINGLE FAMILY RESIDENTIAL

TOWN TAX MAP DATA: SECTION 37.19, BLOCK 2, LOTS 23

SITE AREA: 0.69 ACRES (30,000 SF)

SEWAGE FACILITIES: PUBLIC SEWERS

WATER FACILITIES: PUBLIC WATER FACILITIES



**LEGEND**

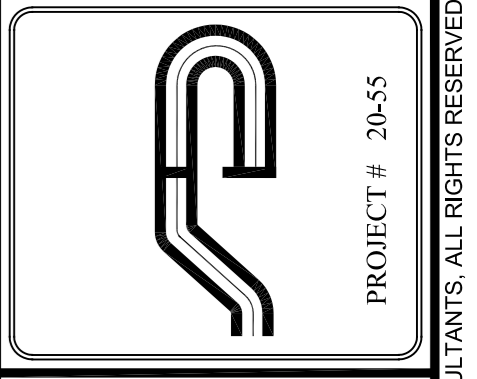
- 222 --- EXISTING GRADING
- X 222.8 --- EXISTING SPOT GRADE
- 200 --- PROPOSED GRADING
- --- PROPERTY LINE / RIGHT OF WAY
- --- EDGE OF WETLAND
- --- 100' WETLAND BUFFER
- --- EXISTING FIRE HYDRANT
- --- EXISTING DRAINAGE INLET
- --- EXISTING SANITARY LINE
- --- PROPOSED DRAIN INLET W/ PIPE
- --- PROPOSED END SECTION W/ RIP RAP
- --- PROPOSED FOOTING DRAIN
- --- PROPOSED ROOF DRAIN
- --- PROPOSED SEWER SERVICE CONNECTION
- --- PROPOSED WATER SERVICE CONNECTION
- --- PROPOSED RETAINING WALLS
- --- PROPOSED STONE OR OTHER WALL
- --- PROPOSED SOIL STOCKPILES
- --- PROPOSED SILT FENCE

DISTURBANCE SUMMARY			
DESCRIPTION	DISTURBANCE AS PER ORIGINAL APPROVAL	OVERALL NEW DISTURBANCE PROPOSED	ADD'L DISTURBED AREAS PREVIOUSLY UNDISTURBED
BUFFER DISTURBANCE	14,040 SF	7,920 SF	370 SF
WETLAND DISTURBANCE	860 SF	715 SF + 2,420 SF +/- = 3,135 SF WETLAND FILL + DEBRIS PILES	3,135 SF
TOTAL DISTURBANCE	13,180 SF	11,055 SF	3,505 SF
PROPOSED MITIGATION			4,000 SF +/-

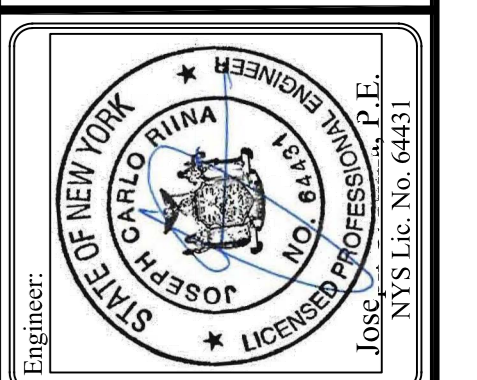
Wetland Areas - OBL & FACW Perennial Mix Food and Cover Wetland Mix (ERNMX-120 or equivalent) at 20 lbs/acre.

**NOTE:**  
 1. THIS IS NOT A SURVEY. ALL SURVEY INFORMATION SHOWN ON THIS PLAN HAS BEEN TAKEN FROM SURVEY MAP PREPARED BY ROBERT BAXTER, L.S., LAST DATED 02/29/2018. TOPOGRAPHIC INFORMATION WAS DERIVED FROM ORIGINAL TOPOGRAPHIC SURVEY AND PROPOSED GRADING FROM ORIGINAL SITE PLAN. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

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



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Revisions:	No.	Date	Comments
	1	1/18/21	11/18/21 Comments

SCALE: 1" = 20'  
 DRAWN BY: GO  
 DATE: 10/29/20

**SITE PLAN**

PROPOSED SITE IMPROVEMENTS  
 PREPARED FOR  
**HEITOR ALMEIDA**  
 1875 BROOKDALE STREET  
 Yorktown Heights, NY 10598  
 Westchester Co., New York

Sheet 1 of 3

PROJECT # 20-55  
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**GENERAL EROSION CONTROL NOTES:**

- Contractor shall be responsible for compliance with all sediment and erosion control practices. The sediment and erosion control practices are to be installed prior to any soil disturbance and maintained until permanent protection is established. Road surface located on the site shall be protected with tracking pad or appropriate measures during adjacent road shoulder grading. Contractor is responsible for the installation and maintenance of all soil erosion and sedimentation control devices throughout the course of construction.
- Catch basin inlet protection shall be installed and operating at all times until final areas have been stabilized. When possible, traps shall be installed in the drainage area to prevent erosion and sediment control structures from being damaged by the Contractor.
- All structures shall be maintained in good working order at all times. The sediment level in all sediment traps shall be closed and monitored and sediment removed promptly when sediment levels are reached or as ordered by the engineer. All sediment control structures shall be inspected on a regular basis and after each heavy rain to insure proper operation as designed. An inspection schedule shall be set forth prior to the start of construction. The locations and the installation of sediment control structures shall be as specified in these plans as ordered by the Engineer and in accordance with the latest edition of the "New York Standards and Specifications for Erosion and Sediment Control" (NYSSESC).
- All topsoil shall be placed in a stabilized stockpile or reuse on the site. All stockpile material required for final grading and stored on site shall be topsoiled, seeded and mulched within 7 days. Re-er to soil stockpile details.
- Any disturbed areas that are left exposed more than 7 days and not subject to construction traffic shall be mulched and receive topsoil or seeding. Mulch shall be used in the season prevents the establishment of a topsoil or paratopsoil. Disturbed areas shall not be mulched and fertilized prior to topsoil seeding.
- All disturbed areas within 500 feet of an inhabited dwelling shall be mulched as necessary to provide dust control.
- The contractor shall keep the roads within the project clear of soil and debris and is responsible for any street cleaning necessary during the course of the project.
- Sediment and erosion control structures shall be removed and the area stabilized when the drainage area has been properly stabilized and permanent easements.
- All sediment and erosion control easements shall be installed in accordance with the current edition of NYSSESC.
- All regraded areas shall be stabilized appropriately prior to any rock blasting and/or filling of soils. Special care should be taken during construction to insure stabilization of maintenance and integrity of control structures.
- Any slopes graded at 3:1 or greater shall be stabilized with erosion blankets to be installed into place in accordance with the manufacturer's requirements. Erosion blankets shall also be re-erred at the discretion of the Town or Project Engineer. When stabilized blankets are installed, they shall be placed all over the volume of soil prior to laying net or as recommended by the manufacturer.
- To prevent heavy construction equipment and trucks from tracking soil onto streets or crushed stone pad. Locate and construct pads as detailed in these plans.
- Contractor is responsible for controlling dust from spraying exposed soil areas periodically with water as required. Contractor to supply all equipment and water.
- Contractor shall be responsible for construction inspections as per NYSDEC GP-0-20-001 and Town or Project Engineer.

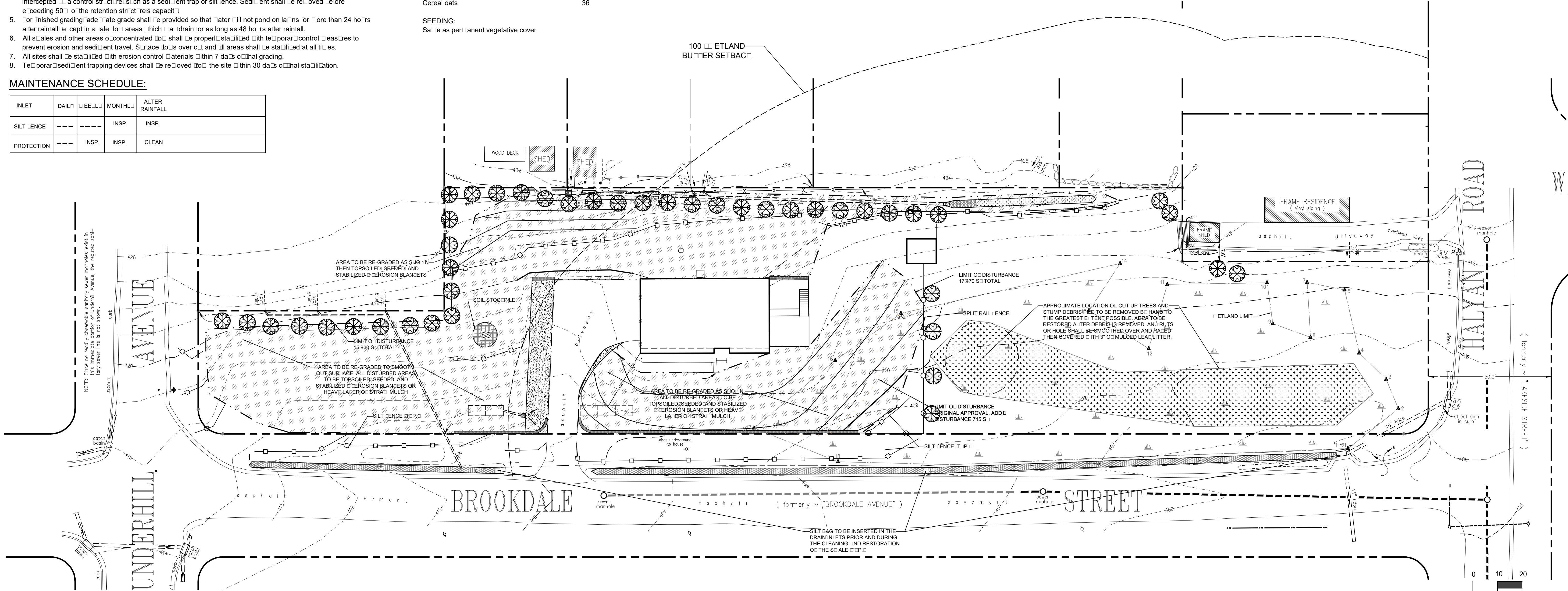
**MAINTENANCE OF TEMPORARY EROSION AND SEDIMENT CONTROL STRUCTURES:**

- NYSDEC GP-0-20-001 EXPOSURE RESTRICTIONS - States that any exposed earth or shall be stabilized in accordance with the guidelines of this plan.
- Trees and vegetation shall be protected at all times as shown on the detail drawing and as directed by the Engineer.
  - Care shall be taken so as not to channel concentrated runoff through the areas of construction activity on the site.
  - Fill and site distances shall not be created which causes water to pond on site or on adjacent properties.
  - Runoff from land disturbances shall not be discharged or have the potential to discharge onto a first being intercepted by a control structure such as a sediment trap or silt fence. Sediment shall be removed before exceeding 50% of the retention structure's capacity.
  - For finished grading, adequate grade shall be provided so that water will not pond on lawns or more than 24 hours after rainfall except in scale to areas which drain or as long as 48 hours after rainfall.
  - All scales and other areas concentrated to shall be properly stabilized with topsoil or paratopsoil control easements to prevent erosion and sediment travel. Surface soils over cut and fill areas shall be stabilized at all times.
  - All sites shall be stabilized with erosion control materials within 7 days of final grading.
  - Topsoil or sediment trapping devices shall be removed from the site within 30 days of final stabilization.

**MAINTENANCE SCHEDULE:**

INLET	DAILY	WEEKLY	MONTHLY	AFTER RAINFALL
SILT FENCE	---	---	INSP.	INSP.
PROTECTION	---	INSP.	INSP.	CLEAN

NOTE: Since no readily observable sanitary sewer manholes exist in this immediate portion of Underhill Avenue, the reported sanitary sewer line is not shown.



NOTE: THIS IS NOT A SURVEY. ALL SURVEY INFORMATION SHOWN ON THIS PLAN HAS BEEN TAKEN FROM SURVEY MAP PREPARED BY ROBERT BAUTER, L.S., LAST DATED 02/28/2018. TOPOGRAPHIC INFORMATION IS AS DERIVED FROM ORIGINAL TOPOGRAPHIC SURVEY AND PROPOSED GRADING FROM ORIGINAL SITE PLAN. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

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**TOPSOIL:**

- Existing topsoil shall be removed and stored in piles sufficient to avoid mixing with other excavation. Stockpiles shall be surrounded by erosion control as outlined on these plans. The finishing of the topsoil shall be as a letter or equal to the following criteria SS713.01 N.SDOT
- The pH of the material shall be 5.5 to 7.6.
  - The organic content shall not be less than 2% or more than 70%.
  - Gradation:
 

SIEVE SIZE	PASSING BY WT. %
2 INCH	100
1 INCH	85 TO 100
1/4 INCH	65 TO 100
NO. 200 MESH	20 TO 80

**PERMANENT VEGETATIVE COVER:**

- Site preparation:
  - Install erosion control easements.
  - Scarify and topsoil soil areas.
  - Liming as required to pH 6.5.
  - Fertilize with 10-6-4 4 lbs/1,000 S.F.
  - Incorporate amendments into soil with disc harrow.
- Seed mixtures or use on scales and fill areas.
 

MIXTURE	LBS./ACRE
ALT. A	20
	28
	5
ALT. B	20
	2
	20

**TEMPORARY VEGETATIVE COVER:**

- SITE PREPARATION:
  - Install erosion control easements.
  - Scarify areas of topsoil soil.
  - Fertilize with 10-10-10 at 400/acre.
  - Liming as required to pH 6.5.
- SEED SPECIES:
 

MIXTURE	LBS./ACRE
Rapid germinating annual grass or approved equivalent	20
Perennial grass	20
Cereal oats	36
- SEEDING:
 

Seed as per permanent vegetative cover

**CONTRACTOR RESPONSIBILITIES:**

- ALL WORK ON THE PROJECT SHALL BE PERFORMED IN A WORKMANLIKE MANNER AND SHALL BE IN ACCORDANCE WITH THE STANDARDS OF THE INDUSTRY. THE OWNER SHALL BE THE SOLE JUDGE OF THE ACCEPTABILITY OF THE WORK. MATERIALS AND WORK DEEMED UNACCEPTABLE SHALL BE REMOVED AND REDONE AT THE SOLE COST AND RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT HIS WORK AND SHALL BE HELD RESPONSIBLE FOR CONSEQUENTIAL DAMAGES DUE TO HIS ACTIVITIES. THE CONTRACTOR SHALL BE RESPONSIBLE TO THE OWNER FOR THE ACTS AND OMISSIONS OF HIS EMPLOYEES AND THEIR AGENTS AND EMPLOYEES AND ANY OTHER PERSONS PERFORMING ANY OF THE WORK UNDER A SEPARATE CONTRACT WITH THE CONTRACTOR.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT EXISTING UTILITIES TO BE REQUIRED BY CONSTRUCTION.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE TOWN ENGINEER IN ADVANCE OF HIS WORK OR AS THE INSPECTOR DEEMS APPROPRIATE.
- ALL CONDITIONS, LOCATIONS AND DIMENSIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND THE TOWN ENGINEER NOTIFIED IN WRITING OF ANY DISCREPANCIES PRIOR TO THE START OF WORK. THE TOWN ENGINEER SHALL EVALUATE THE SITUATION AND MODIFY THE PLAN AS NECESSARY.
- ALL CHANGES MADE TO THIS PLAN SHALL BE APPROVED BY THE ENGINEER WHOSE SEAL APPEARS ON THESE DRAWINGS. AN UNAUTHORIZED ALTERATION OR ADDITIONS TO THIS DRAWING IS A VIOLATION OF SECTION 7209.2 OF THE NEW YORK STATE EDUCATION LAW.
- THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK USING HIS BEST SKILL AND ATTENTION. HE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THIS CONTRACT.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO THE OWNER FOR THE ACTS AND OMISSIONS OF HIS EMPLOYEES, SUBCONTRACTORS AND THEIR AGENTS AND EMPLOYEES AND ANY OTHER PERSONS PERFORMING ANY OF THE WORK UNDER A CONTRACT WITH THE CONTRACTOR.
- THE CONTRACTOR SHALL VERIFY ALL SUBSTRUCTURES ENCOUNTERED DURING CONSTRUCTION.
- THE CONTRACTOR SHALL SECURE OR PROVIDE A BUILDERS RISK POLICY TO COVER THE PERIOD OF CONSTRUCTION. THE ENGINEER OR OWNER SHALL BE NAMED AS ADDITIONAL INSURED. ALL CONTRACTORS EMPLOYED AT THE SITE SHALL BE COVERED BY WORKMAN'S COMPENSATION.

**Construction Sequence**

Refer to the Plan Set for all plans and details which relate to Construction Sequence.

- The wetlands limit shall be clearly demarcated and the wetlands protected at all times during construction. Limits of disturbance shall be marked with the installation of construction fence or approved equal.
- Install all perimeter erosion control measures, construction entrance and construction fence as shown on the Erosion and Sediment Control Plan and the associated Details.
- Begin rough grading the site. Contractor to limit exposure of denuded soils by providing temporary stabilization for work areas that will remain undisturbed for over seven (7) days.
- Upon completion of each section bring to final grade and install final stabilization measures.
- Prior to installation of drainage pipe, the level spreader shall be installed and permanently stabilized with adequate vegetative growth to resist erosion. Begin the excavation and installation of the drainage system. Protect trenches and open excavations from erosion. All drainage inlets shall be protected from sediment entering. There shall be no direct unfiltered discharge into the stormwater systems. The stormwater outlet shall be blocked until all upstream areas have been permanently stabilized.
- During building and site construction maintain and re-establish as required erosion control and stabilization measures as required by the site plan and details.
- Install base course of Item 4 and asphalt pavement for driveway. Stabilize all open areas with seed and mulch.
- Construction of the retaining walls can occur at anytime. Walls shall be installed as per the manufacturers specifications and standard practices.
- Backfill, grade, place final soil topping and put in place permanent vegetative cover over all disturbed areas, landscape beds, slopes, etc.
- Once site stabilization has taken place (An area shall be considered to have achieved final stabilization when it has a minimum uniform 70% perennial vegetative cover or other permanent non-vegetative cover with a density sufficient to resist accelerated surface erosion and subsurface characteristics sufficient to resist sliding and other movements), remove all temporary erosion and sediment controls.

**Winter Stabilization Notes:**

- If construction activities are expected to extend into or occur during the winter season the contractor shall anticipate proper stabilization and sequencing. Construction shall be sequenced such that wherever possible areas of disturbance that can be completed and permanently stabilized shall be done by applying and establishing permanent vegetative cover before the first frost. Areas subject to temporary disturbance that will not be worked for an extended period of time shall be treated with temporary seed, mulch.

PROJ. NO. 18-055

**Site Design Consultants**

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Revision No.	Date	By	Checked

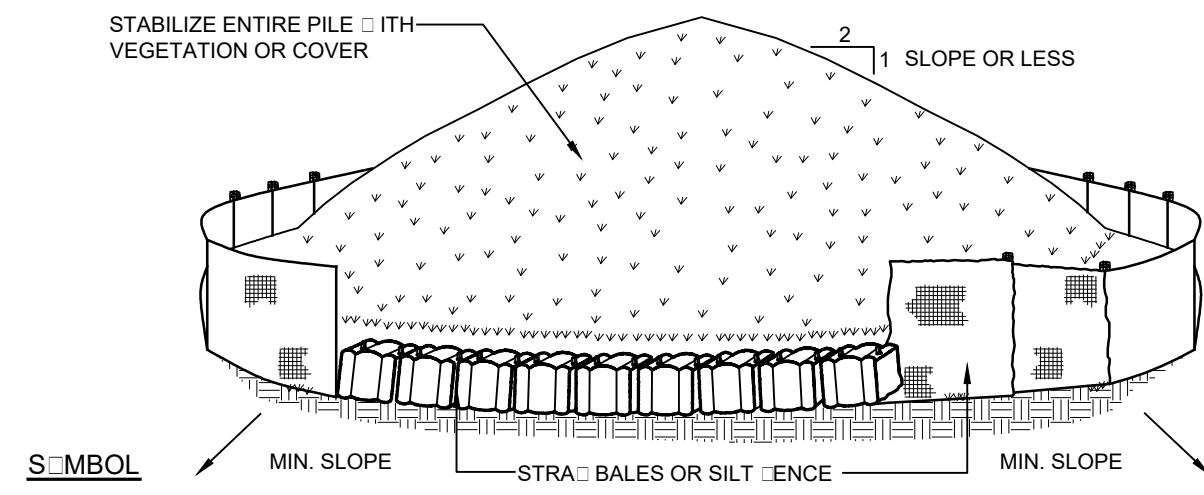
SCALE: 1" = 20'-0"  
DRAWN BY: GO  
DATE: 10/19/10

**EROSION SEDIMENT CONTROL PLAN**

PROPOSED SITE IMPROVEMENTS PREPARED FOR  
**HEITOR ALMEIDA**  
1815 BROOKDALE STREET  
Yonkers, New York

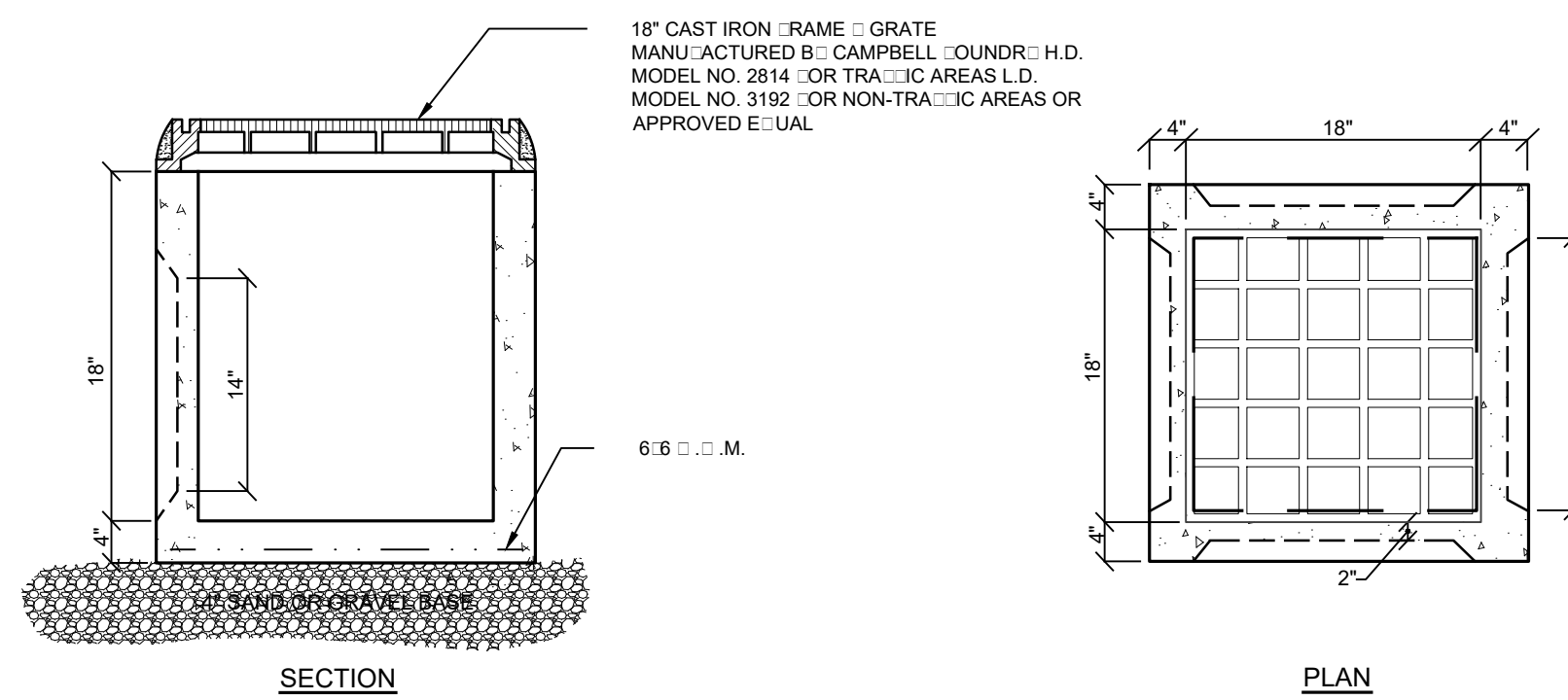
Walter Co., New York

Sheet 3

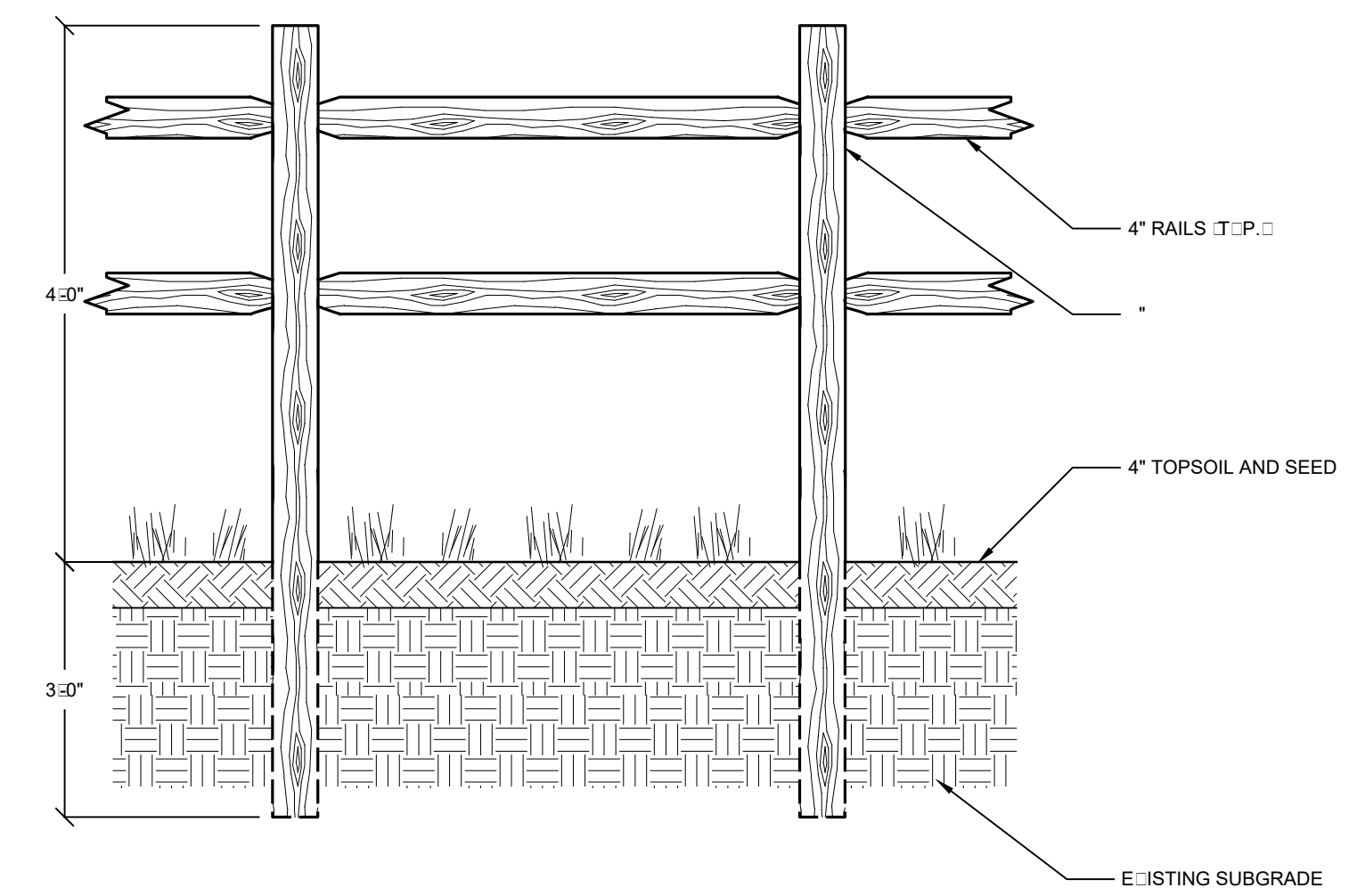


- NOTES:**
- Area chosen for stockpiling operations shall be drained and stable.
  - Maximum slope of stockpile shall be 1:2.
  - Upon completion of soil stockpiling each pile shall be stabilized with either silt fencing or straw bales, then stabilized with vegetation or covered.
  - See detail for installation of silt fence.

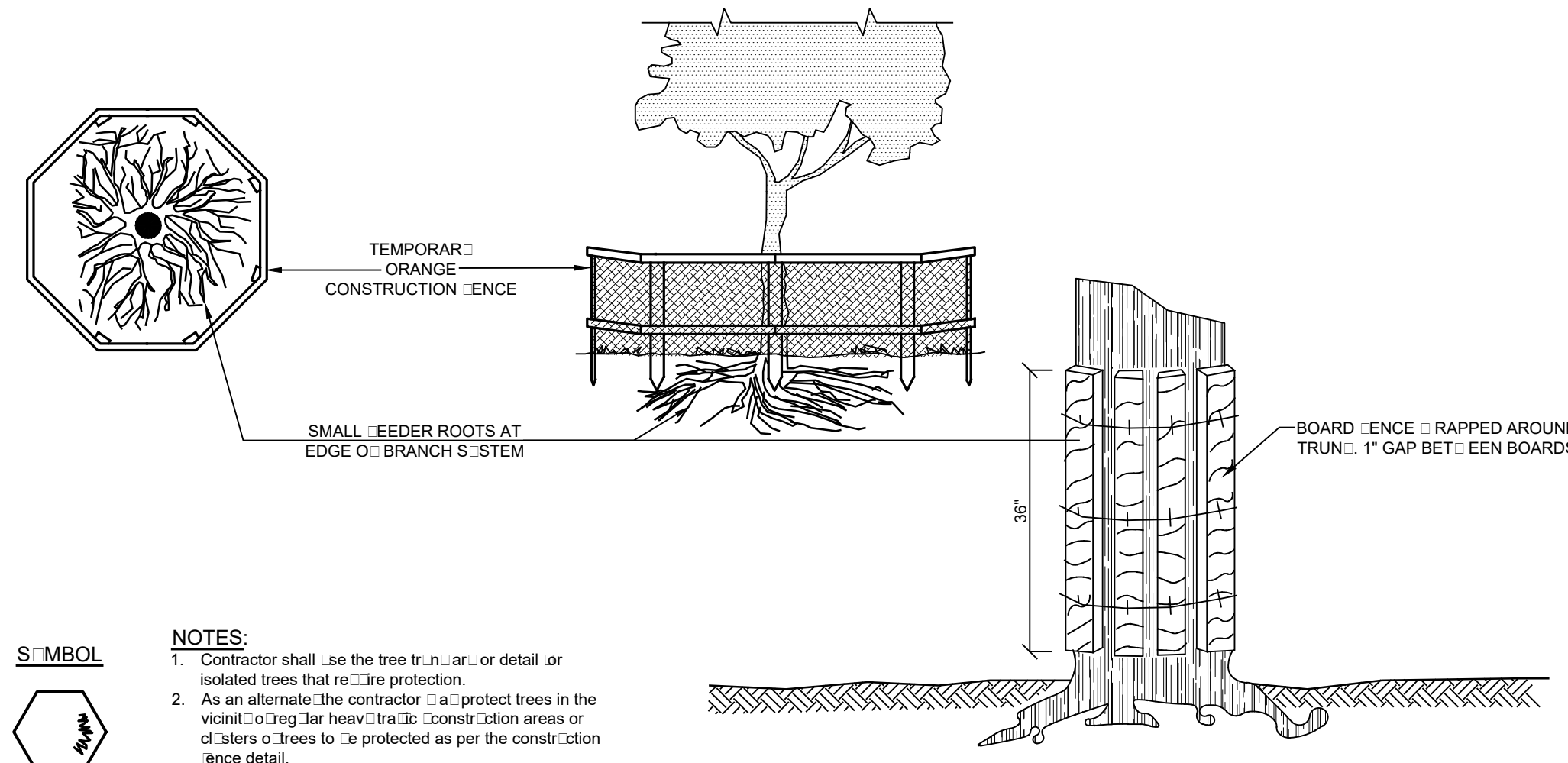
**E-1 SOIL STOCKPILE DETAIL**  
NOT TO SCALE



**D-1 PRECAST DRAIN INLET DETAIL**  
NOT TO SCALE

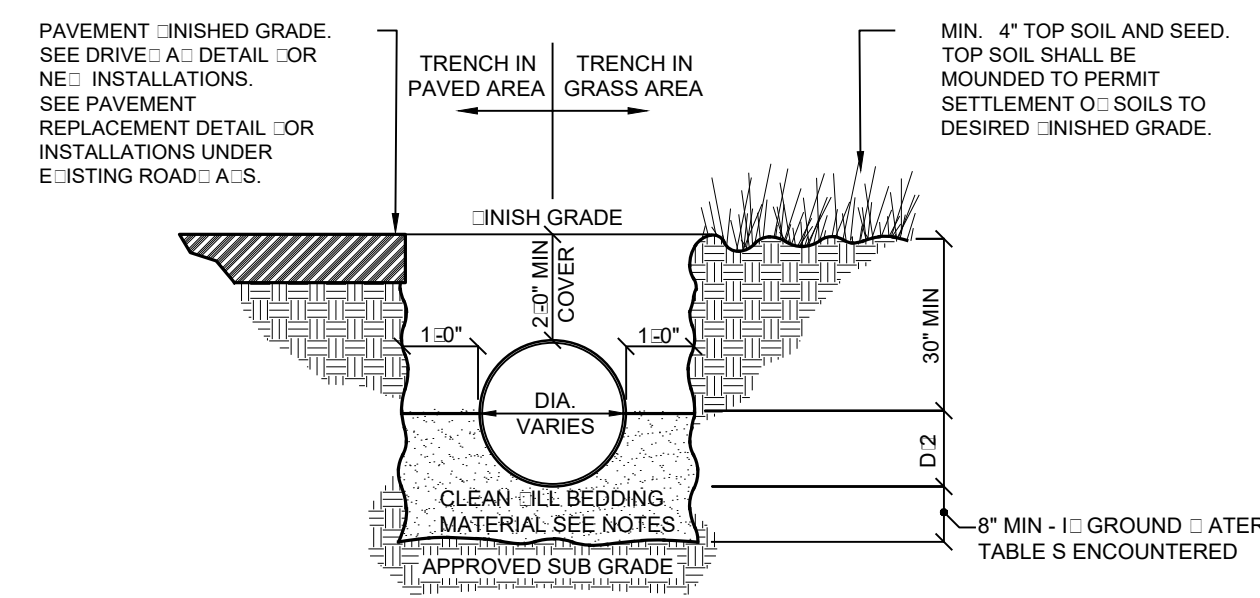


**P-1 POST AND RAIL FENCE DETAIL**  
NOT TO SCALE

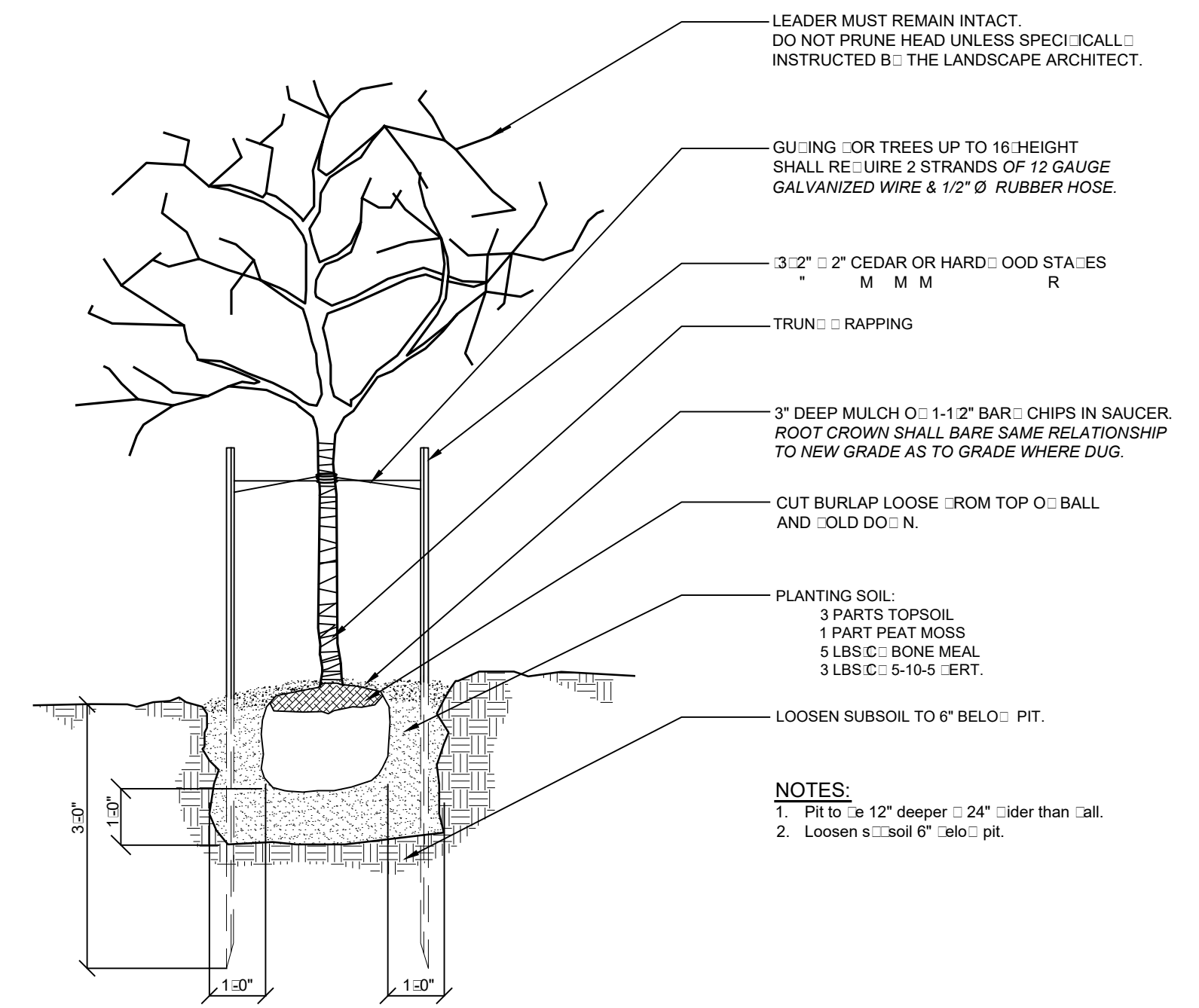


- NOTES:**
- Contractor shall use the tree trunk armor detail for isolated trees that require protection.
  - As an alternate, the contractor shall protect trees in the vicinity of regular heavy traffic construction areas or adjacent to trees to be protected as per the construction detail.

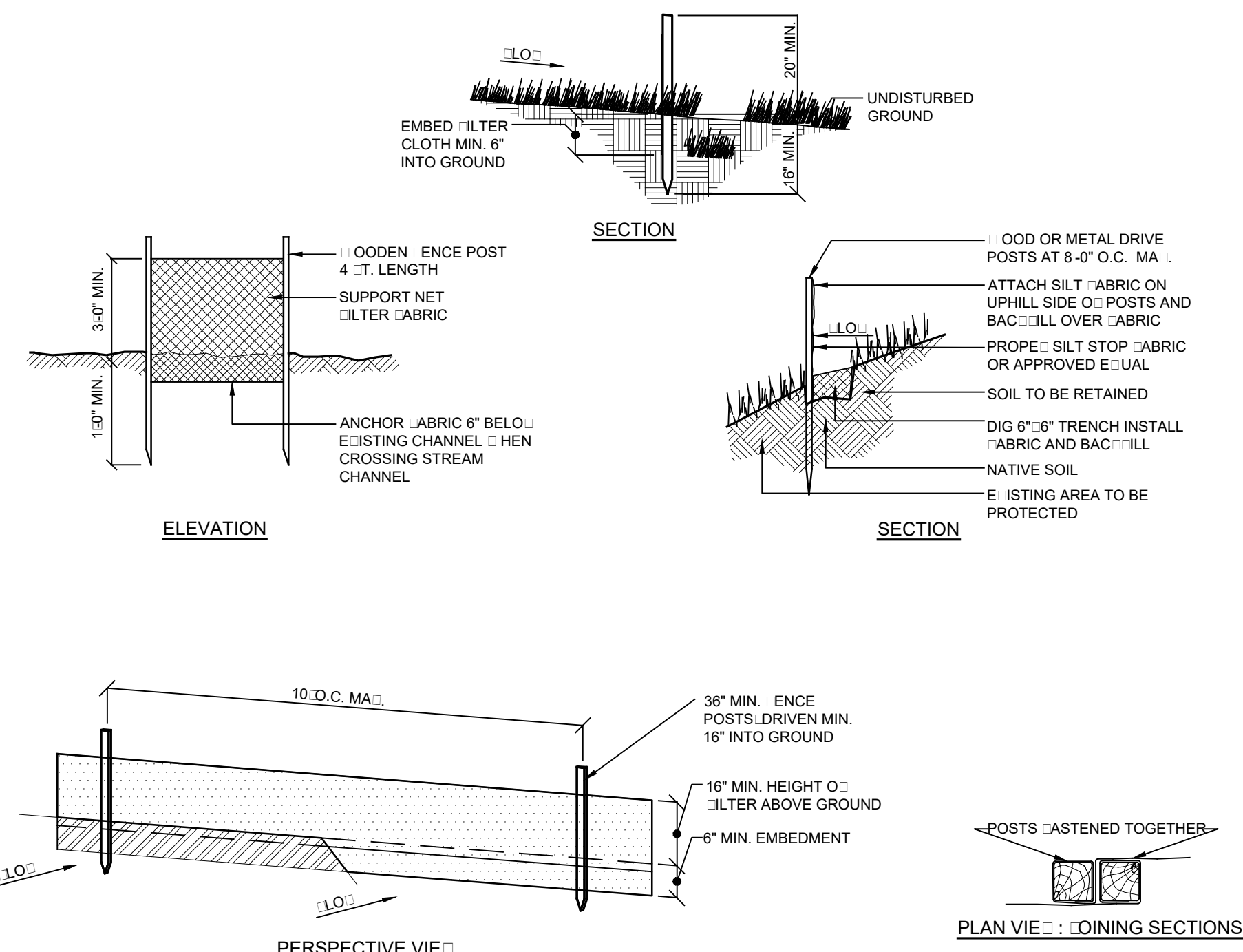
**E-2 TREE TRUNK ARMOR TREE PROTECTION DETAIL**  
NOT TO SCALE



**D-2 STORM PIPE BEDDING DETAIL**  
NOT TO SCALE

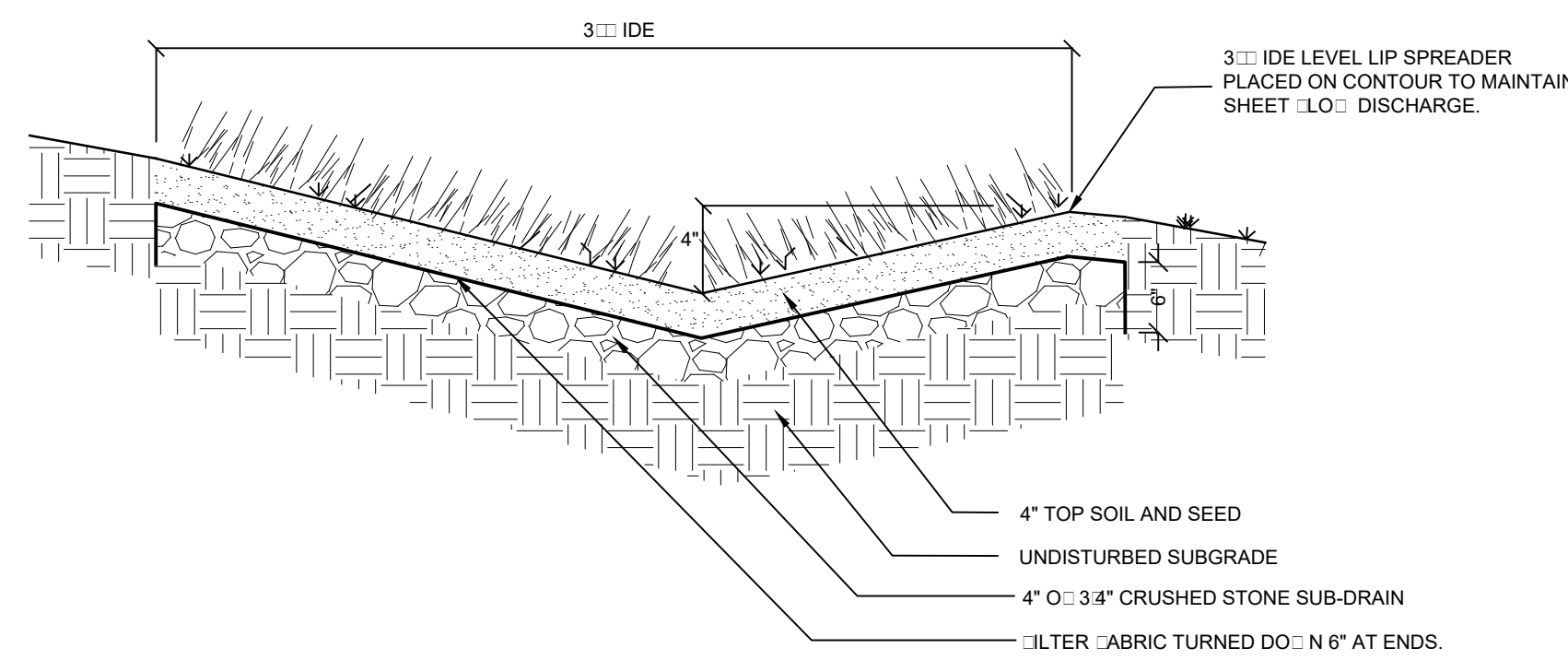


**P-1 TREE PLANTING DETAIL**  
NOT TO SCALE



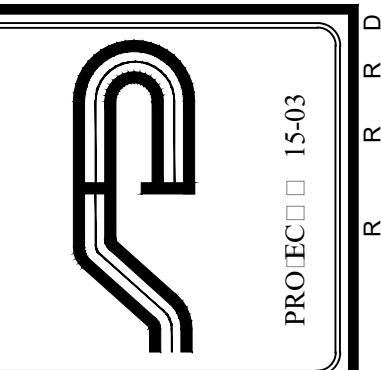
- NOTES:**
- Filter cloth to be fastened section to post, steel either 1 or 2 inch or 2 inch wood posts at top and mid section.
  - When two sections of filter cloth adjoin each other, they shall be overlapped 6 inches and staked. Filter cloth shall be installed 100% with a minimum of 1140n or approved equal.
  - Maintenance shall be performed as needed and material removed when rills develop in the silt fence.
  - Excavate 4 inch trench along the lower portion of the site.
  - Unroll a section of filter cloth and position the post against the back of the trench, net side against direction of flow.
  - Drive the post into the ground until the netting is approximately 2 inches from the trench bottom.
  - Label the toe-in flap of filter cloth onto the undisturbed bottom of the trench and tamp the soil. Steeper slopes require an intercept trench.
  - Join sections as shown above.

**E-3 SILT FENCE DETAIL**  
NOT TO SCALE

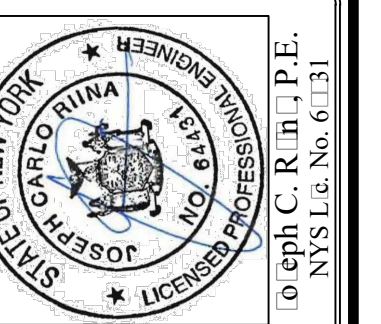


- NOTES:**
- The installation area shall be cleared of trees, stumps, sod, loose rock or other obstructions to materials.
  - The spreader shall be set level in all directions.
  - The cross section shall be excavated to the neat lines and grades shown on the plans. Over excavated areas shall be backfilled with moist soil compacted to the density of the surrounding material.
  - Filter and bedding shall be placed to line and grade in the manner specified.
  - No vertical deviations from design grade or horizontal alignment shall be permitted.
  - Construction operations shall be done in such a manner that erosion, air and water pollution will be minimized and held within legal limits. All disturbed areas shall be vegetated or otherwise protected against soil erosion.

**D-3 GRASS LEVEL-LIP SPREADER DETAIL**  
NOT TO SCALE



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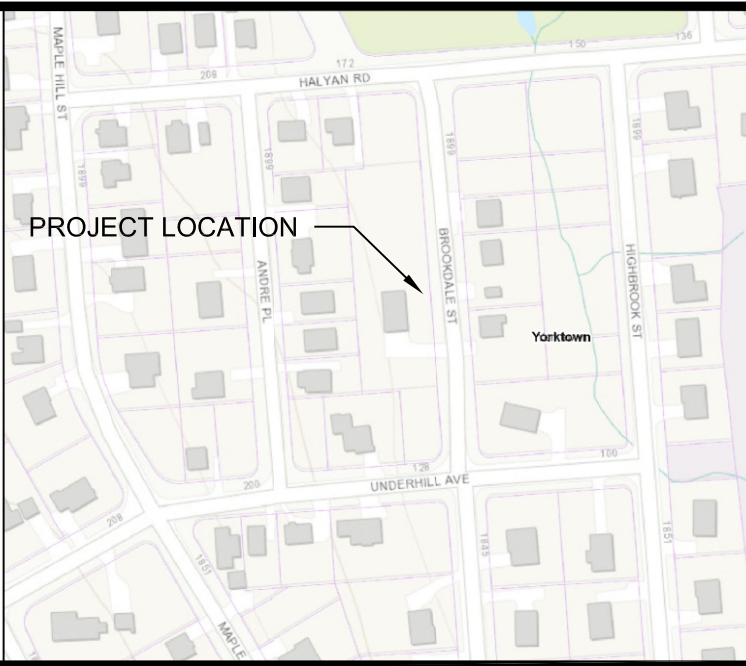
Revision No.	Date	By	Checked

**EROSION CONTROL DETAILS**  
SEDIMENT CONTROL DETAILS

PROPOSED SINGLE FAMILY RESIDENCE  
PREPARED FOR  
**HEI/OR ALMEIDA**  
1815 BROOKDALE STREET  
Yonkers, NY  
Weicheiter Co., New York

© 2020, 2016, 2015 HEI/OR ALMEIDA ENGINEERING CAD, CADD, 2015 HEI/OR ALMEIDA, 2015 HEI/OR ALMEIDA, SITE PLAN, D-3

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



Wetland Restoration Plan Notes  
Almeida, Brookdale Street  
Town of Yorktown, NY  
June 21, 2021

Notes:

1. Removal of existing debris and rubbish will precede excavation and planting.
2. The limits of the restoration area will be staked out prior to commencement of wood chip removal.
3. Native and non-native vegetation will be removed, including phragmites, multi-flora rose, purple loosestrife and ailanthus.
4. Wetland seed mix will be used as specified to supplement plantings at a rate of 20 pounds per acre. Four pounds of seed will be used for this area.
5. Drainage swales and existing structures will be cleared and cleaned as part of this activity.
6. A total of 41 shrubs and 16 trees will be planted to replace cut trees and re-establish a shrub layer as per the plant list attached.

Planting Details

Plant choices for the wetland restoration were made according to existing site conditions and locally common species.

All planting will proceed by hand. Materials will be brought to the site in good condition (see below) and then placed in central drop locations. The materials will then be hand-carried to their planting locations and in turn, planted by hand. Only rounded, shallow planting shovels will be used in this effort. All plant materials will be in containers.

Criteria for selecting plant material will include (1) the plant's ability to withstand the expected light and saturation conditions; (2) its demonstrated survival on this site and other nearby sites; (3) the plant must be native and non-invasive; and (4) whether the plant material is available at nurseries in the same region as the site. See the planting plan for complete plant species list. Seed mix was chosen based on the species' ability to survive in moist areas adjacent to the road with some sun.

Planting will be done in spring or early summer (between April 1 and July 1). Shrubs may also be planted in the late summer to early fall (September 1 to October 30). In all cases, a hole will be dug twice as deep as the root ball. The only shovels allowed are rounded, shallow spades. The hole will then be backfilled with a thin layer of rich, organic topsoil, the plant placed inside, the hole backfilled to the top and then gently tamped down.

Container-grown plant material delivered to the job site will be inspected to assure moist soil/root masses. Any dry and light weight plants will not be accepted. If not planted immediately the container will be stored out of the sun and wind and kept moist (i.e., a means of watering will be provided and watering will occur daily). When removed from the containers, the plants will be the size of the specified container. If in leaf, the plants will appear healthy with no spots, leaf damage, discoloration, insects or fungus. If not in leaf, the buds will be firm and free of damage, discoloration, insects or fungus. Containers will be a minimum of quart size for shrubs and gallon size for trees.

Bare roots plants (if used) will be shipped from the nursery immediately after lifting from the field and will be planted immediately upon arrival at the site. If they cannot be planted as soon as arriving at the site, they will be stored in the shade, protected from sun and wind, and kept moist by the use of straw, peat moss, compost, or other suitable materials. Plants not having an abundance of well developed terminal buds on the leaders and branches will be rejected. The stems and branches of all plants will be firm and the cambium healthy or the plants rejected. Any bare root plants that are in leaf or have leaflets will be rejected.

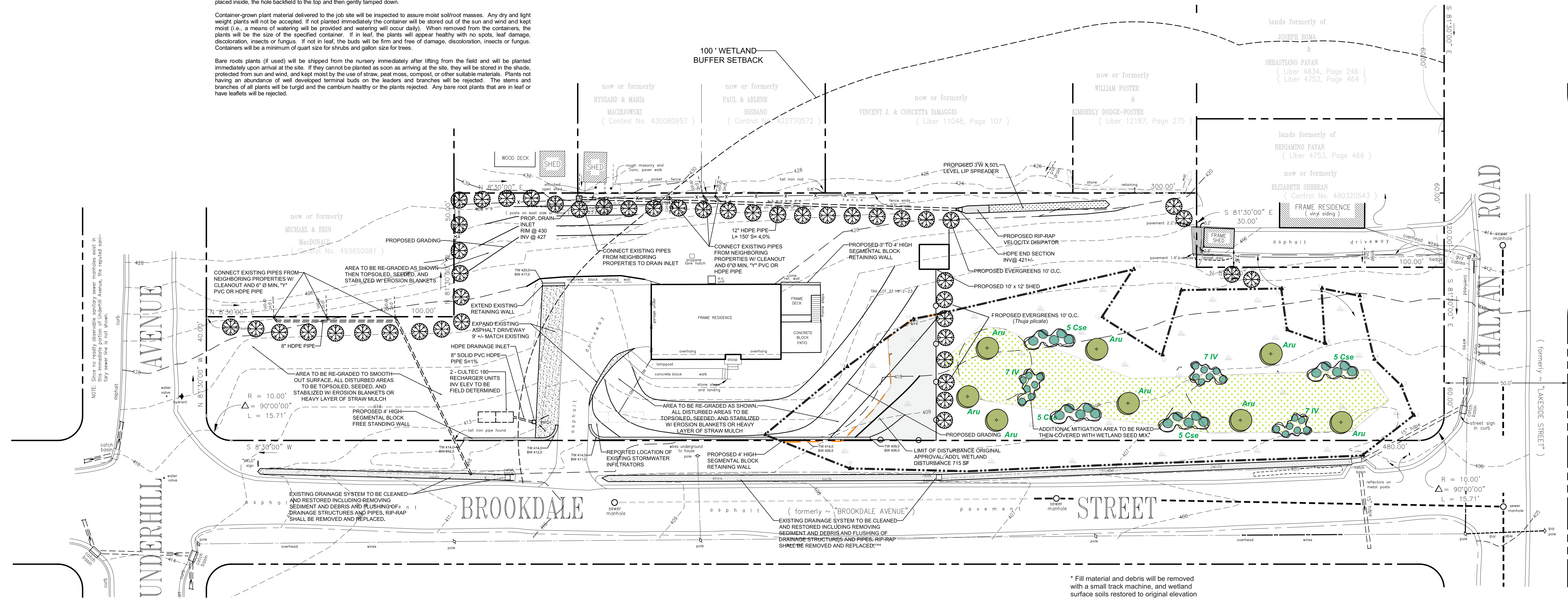
Monitoring and Maintenance

At least one pre-construction meeting will occur between the chosen planting contractor/subcontractor and the site environmental monitor prior to activities on site. Monitoring and maintenance efforts for the restoration plantings will take place over a three year period following installation. This will include monthly visits for the first growing season, and then twice the second year, with additional inspections as required depending on conditions. The applicant's environmental monitor will conduct a survey of the site and site conditions will be noted and adjusted as necessary. An annual report will be provided to the Town at the end of the growing season for each of the two years.

Plant List

- 8 Acer rubrum (Aru) - Red maple
- 8 Thuja plicata - Western Arbor vitae 'Green Giant'
- 21 Ilex verticillata (IV) - Winterberry holly
- 20 Cornus sericea (Cse) - Redosier dogwood
- OBL and FACW Mix Food and Cover Wetland Mix (ERNMX-120 or equivalent @20 lbs/acre

LOCATION MAP NOT TO SCALE



SITE DATA:

OWNER / DEVELOPER: HEITOR ALMEIDA  
1875 BROOKDALE STREET  
YORKTOWN HEIGHTS, NY 10598

PROJECT LOCATION: 1875 BROOKDALE STREET  
YORKTOWN HEIGHTS, NY, 10598

EXISTING TOWN ZONING: R1-10, SINGLE FAMILY RESIDENTIAL

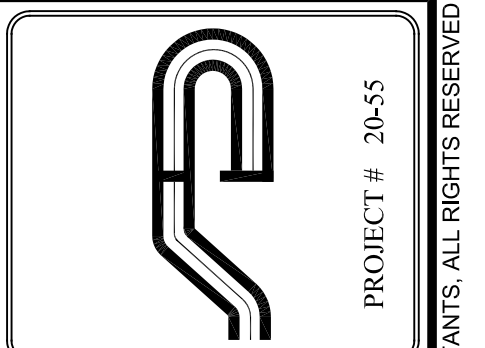
PROPOSED USE: R1-10, SINGLE FAMILY RESIDENTIAL

TOWN TAX MAP DATA: SECTION 37.19, BLOCK 2, LOTS 23

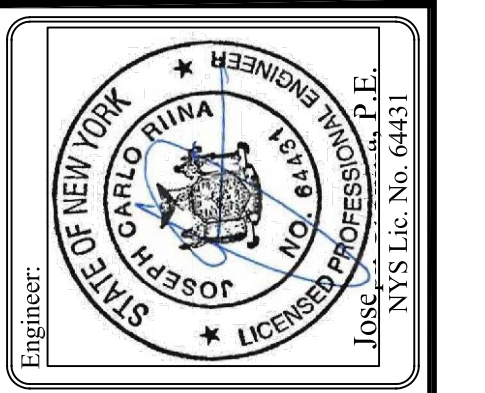
SITE AREA : 0.69 ACRES (30,000 SF)

SEWAGE FACILITIES: PUBLIC SEWERS

WATER FACILITIES: PUBLIC WATER FACILITIES



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Civil Engineers • Land Planners  
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Revisions:	Comments:
No.	Date
1	11/21/21
2	
3	

SCALE: 1" = 20'  
DRAWN BY: GO  
DATE: 10/29/20

WETLAND RESTORATION

DISTURBANCE SUMMARY			
DESCRIPTION	DISTURBANCE AS PER ORIGINAL APPROVAL	OVERALL NEW DISTURBANCE PROPOSED	ADD'L DISTURBED AREAS PREVIOUSLY UNDISTURBED
BUFFER DISTURBANCE	14,040 SF	7,920 SF	370 SF
WETLAND DISTURBANCE	860 SF	715 SF + 2,420 SF +/- = 3,135 SF WETLAND FILL +/- DEBRIS PILES	3,135 SF
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PROPOSED MITIGATION			4,000 SF +/-

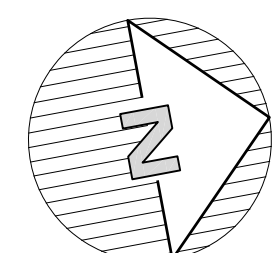
**LEGEND**

--- 222 ---	EXISTING GRADING	=====	PROPOSED RETAINING WALLS
× 222.8	EXISTING SPOT GRADE	-----	PROPOSED STONE OR OTHER WALL
— 200 —	PROPOSED GRADING	○ SS ○ SS	PROPOSED SOIL STOCKPILES
—▲—▲—▲—	PROPERTY LINE / RIGHT OF WAY	—□—□—	PROPOSED SILT FENCE
—▲—▲—▲—	EDGE OF WETLAND	—○—○—	
—○—○—	100' WETLAND BUFFER		
—○—○—	EXISTING FIRE HYDRANT		
—○—○—	EXISTING DRAINAGE INLET		
—○—○—	EXISTING SANITARY LINE		
—○—○—	PROPOSED DRAIN INLET W/ PIPE		
—○—○—	PROPOSED END SECTION W/ RIP RAP		
—○—○—	PROPOSED FOOTING DRAIN		
—○—○—	PROPOSED ROOF DRAIN		
—○—○—	PROPOSED SEWER SERVICE CONNECTION		
—○—○—	PROPOSED WATER SERVICE CONNECTION		

NOTE: 1. THIS IS NOT A SURVEY. ALL SURVEY INFORMATION SHOWN ON THIS PLAN HAS BEEN TAKEN FROM SURVEY MAP PREPARED BY ROBERT BAXTER, L.S., LAST DATED 02/28/2018. TOPOGRAPHIC INFORMATION WAS DERIVED FROM ORIGINAL TOPOGRAPHIC SURVEY AND PROPOSED GRADING FROM ORIGINAL SITE PLAN. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.



Tim Miller Associates, Inc.  
Environmental and Planning Services  
10 North Street, Cold Spring, NY  
845 265 4400



PROPOSED SITE IMPROVEMENTS PREPARED FOR  
**HEITOR ALMEIDA**  
1875 BROOKDALE STREET  
Town of Yorktown  
Westchester Co., New York

Sheet 1 of 3

**Town Board Referral  
Baptist Church Rd  
Bridge Replacement**





**Vincent Sapienza P.E.**  
*Commissioner*

**Ana Barrio**  
*Deputy Commissioner*  
Bureau of Engineering  
Design and Construction

**Sean McAndrew, P.E.**  
*Executive Director*  
Water System Capital  
Program

16 Little Hollow Road  
P.O. Box 358  
Grahamsville, NY 12740

T: (845) 334-7195  
F: (845) 985-2282

[mcandrews@dep.nyc.gov](mailto:mcandrews@dep.nyc.gov)

September 24, 2021

Yorktown Town Hall  
363 Underhill Avenue  
Yorktown Heights, NY 10598  
Attn: Dan Ciarcia, P.E., Acting Town Engineer

Re: Town of Yorktown SWPPP Submission  
New York City Department of Environmental Protection  
Bureau of Engineering Design and Construction  
Capital Project WM-30, in Westchester County, NY  
Contract No.: CRO-530B  
Replacement of Baptist Church Road Bridge

Dear Mr. Ciarcia,

The New York City Department of Environmental Protection (NYCDEP), "The Applicant", is pleased to submit the enclosed Stormwater Pollution Prevention Plan (SWPPP) for the replacement of Baptist Church Road Bridge in the Town of Yorktown, Westchester County, New York.

Enclosed you will find the following files:

- Stormwater Pollution Prevention Plan, dated August 2021
- MS4 SWPPP Acceptance Form

Please review the enclosed plan and let me know if you have any questions or need additional materials. Please direct all correspondence to:

Mr. Jeffrey A. Busse, P.E., NYCDEP  
New York City Department of Environmental Protection  
Bureau of Engineering Design & Construction  
465 Columbus Avenue  
Valhalla, New York 10595  
Email: BusseJ@dep.nyc.gov  
Phone: 914-749-5417

If you have no comments or questions on the SWPPP, please return a signed copy of the MS4 SWPPP acceptance form.

Sincerely,

A handwritten signature in blue ink that reads "Jeffrey A. Busse".

Jeffrey A. Busse, P.E., NYCDEP  
Enclosures (2)

Cc: Costa, Paul <pcosta@dep.nyc.gov>;  
Busse, Jeffrey <BusseJ@dep.nyc.gov>;  
Salzberg, Spencer <SSalzberg@dep.nyc.gov>;  
Sprague, Edward A. <ESprague@dep.nyc.gov>;  
Kelly, Kathryn <kkelly@dep.nyc.gov>;  
Roman, Ron <rroman@hardestyhanover.com>;  
Young, Megan <myoung@hardestyhanover.com>;  
Todd, Maxwell <mtodd@entech.nyc>;  
Carpenter, Victoria <vcarpenter@entech.nyc>.



**Vincent Sapienza P.E.**  
*Commissioner*

**Ana Barrio**  
*Deputy Commissioner*  
Bureau of Engineering  
Design and Construction

**Sean McAndrew, P.E.**  
*Executive Director*  
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16 Little Hollow Road  
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F: (845) 985-2282

[mcandrews@dep.nyc.gov](mailto:mcandrews@dep.nyc.gov)

August 9, 2021

Yorktown Town Hall  
363 Underhill Avenue  
Yorktown Heights, NY 10598  
Attn: Dan Ciarcia, P.E., Acting Town Engineer

Re: Town of Yorktown Permit Application Submission  
New York City Department of Environmental Protection  
Bureau of Engineering Design and Construction  
Capital Project WM-30, in Westchester County, NY  
Contract No.: CRO-530B  
Replacement of Baptist Church Road Bridge

Dear Mr. Ciarcia,

The New York City Department of Environmental Protection (DEP), “The Applicant”, is pleased to submit the enclosed Town Permit Application regarding a Design-Bid-Build project for the replacement of Baptist Church Road Bridge in the Town of Yorktown, Westchester County, New York. The scope of this project includes full replacement of the existing Baptist Church Road Bridge, which is beyond its useful life. The new bridge will have twelve foot (12 ft) travel lanes and two foot (2 ft) shoulders on both sides. We will also be removing select trees and rock outcroppings within the project area to improve sight distance and will replace guiderailing and provide restoration activities.

Enclosed you will find a Permit Package that includes an application to obtain the following permits:

- Wetland/Watercourse/Buffer Area Permit
- MS4 Stormwater Management Permit
- Tree Permit

The Permit Package includes:

- Town of Yorktown Application Form
- Short Environmental Assessment Form - State Environmental Quality Review
- Project Design Plans
- Joint Permit Application
- Environmental Assessment – City Environmental Quality Review

Please review the enclosed applications and let me know if you have any questions or need additional materials. All correspondence can be directed to:

Jeffrey A. Busse, P.E., NYCDEP  
New York City Department of Environmental Protection  
Bureau of Engineering Design & Construction  
465 Columbus Avenue  
Valhalla, New York 10595  
Email: BusseJ@dep.nyc.gov  
Phone: 914-749-5417

Sincerely,



Jeffrey A. Busse, P.E., NYCDEP

Enclosures (3)

Cc: Costa, Paul <pcosta@dep.nyc.gov>;  
Busse, Jeffrey <BusseJ@dep.nyc.gov>;  
Bosch, Adam <BoschA@dep.nyc.gov>;  
Salzberg, Spencer <SSalzberg@dep.nyc.gov>;  
Sprague, Edward A. <ESprague@dep.nyc.gov>;  
Kelly, Kathryn <kkelly@dep.nyc.gov>;  
Roman, Ron <rroman@hardestyhanover.com>;  
Young, Megan <myoung@hardestyhanover.com>;  
Todd, Maxwell <mtodd@entech.nyc>;  
Carpenter, Victoria <vcarpenter@entech.nyc>.

**TOWN OF YORKTOWN  
WESTCHESTER COUNTY, NY**

**APPLICATION FOR TOWN OF YORKTOWN  
PERMITS**

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**New York City Department of Environmental Protection  
Bureau of Engineering Design and Construction  
Capital Project WM-30, in Westchester County, NY**

**Replacement of Baptist Church Road Bridge**

**BIN: 2-26243-0**

**APPLICANT:**

*New York City Department of Environmental Protection  
Bureau of Engineering Design & Construction  
465 Columbus Avenue  
Valhalla, NY 10595  
Attn: Jeffrey A. Busse, P.E., NYCDEP*

**DESIGN TEAM:**

*Hardesty & Hanover  
1501 Broadway  
New York, New York 10036*

**PREPARED BY:**

*EnTech Engineering, P.C.  
17 State Street, 36<sup>th</sup> Floor  
New York, New York 10004*

**August 2021**

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# TABLE OF CONTENTS

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

**Section** \_\_\_\_\_

**Block** \_\_\_\_\_

**Lot #** \_\_\_\_\_

**Job Site Address:** \_\_\_\_\_

**City/State/Zip:** \_\_\_\_\_

**Approval Authority:** TE [ ] PB [ ] TB [ ]

Application #: \_\_\_\_\_

Date Received: \_\_\_\_\_

Date Issued: \_\_\_\_\_

Date Expires: \_\_\_\_\_

Fee Paid: \$ \_\_\_\_\_

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

**APPLICANT:**

YOUR NAME: \_\_\_\_\_

COMPANY: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

\_\_\_\_\_ ZIP \_\_\_\_\_

PHONE: (\_\_\_\_) \_\_\_\_\_

EMAIL: \_\_\_\_\_

**OWNER:**

YOUR NAME: \_\_\_\_\_

COMPANY: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

\_\_\_\_\_ ZIP \_\_\_\_\_

PHONE: (\_\_\_\_) \_\_\_\_\_

EMAIL: \_\_\_\_\_

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

Select One	Type	Approval Authority	Cost
	Wetland/Watercourse/Buffer Area Permit (Administrative)	Town Engineer	\$800.00
	Wetland/Watercourse/Buffer Area Permit	Town Board/Planning Board	\$1,800.00
	Renewal of Wetlands/Watercourse/Buffer Area Permit (1 Year)	Town Engineer	\$150.00
	MS4 Stormwater Management Permit (Administrative)	Town Engineer	\$300.00
	MS4 Stormwater Management Permit	Town Board/Planning Board	\$1,500.00
	Renewal of a MS4 Stormwater Management Permit (1 Year)	Town Engineer	\$150.00
	Tree Permit	Town Engineer	\$0.00

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

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

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

a. Lake/pond

<input type="checkbox"/>
<input checked="" type="checkbox"/>
<input type="checkbox"/>

Control area of lake/pond

<input type="checkbox"/>
<input checked="" type="checkbox"/>
<input type="checkbox"/>

b. Stream/River/Brook

Control area of stream/river/brook

c. Wetlands

Control area of wetlands

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

The proposed work involves the complete replacement of the Baptist Church Road Bridge over Hunter Brook adjacent to the New Croton Reservoir. The approximate area of soil disturbance is 0.45 acres and open water disturbance is 0.3 acres. All construction activities would be conducted such that dust, debris, waste materials, and construction materials are not released or spilled into the soil, water, and/or sediment in accordance with all applicable laws, codes, rules, and regulations. To avoid disturbing the water body, the following mitigation measures will be implemented: plastic safety fencing, turbidity curtain, silt fences, cofferdam, and dust controls. Environmental Waterway and Ground Protection will also be included in the contract and implemented into the construction. See Attachment B for the Design Drawings and Attachment C for the Wetland Delineation Report.

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

The replacement of the Baptist Church Road Bridge involves approximately 3,600 cubic yards of unclassified excavation and 350 cubic yards of rock excavation. Excavation will take place for removal of the existing substructure and site grading. A portion of the excavated soils removed during substructure demolition are expected to be reused on site. All stockpiles shall be located on flat areas with appropriate ESC countermeasures installed. Stockpiles shall be covered with plastic covers to prevent the erosion of the stockpile.

**3. Tree Removal:**

**Amount of trees and/or stumps to be removed:** 89

**Sizes; approximate DBH:** See Attachment D for Summary of Tree Survey

**Species of trees to be removed (i.e. Birch, Spruce - if known):** See Attachment D for Summary of Tree Survey

**Reason for removal:** Improve horizontal sight distance and facilitate construction of new bridge

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

**Tree removal contractor:** TBD  
\_\_\_\_\_  
\_\_\_\_\_

(Tree Removal and Tree Protection Plans are required to be submitted by the Contractor to NYCDEP prior to construction)

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

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

I, Paul Costa hereby authorize Jeff Busse to apply for this Stormwater/Wetland Permit/Tree Permit on my behalf.

**Signature:** Paul Costa Digitally signed by Paul Costa  
Date: 2021.07.16 09:14:29 -0400 **Date:** 07/16/2021

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



## GENERAL CONDITIONS

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

Jeffrey A. Busse, PE

PRINT NAME

Jeffrey A. Busse, P.E. Digitally signed by Jeffrey A. Busse, P.E.  
Date: 2021.07.16 10:09:57 -04'00'

SIGNATURE OF APPLICANT

07-16-2021

DATE

**Attachment A**  
**Short Environmental Assessment Form**

# Short Environmental Assessment Form

## Part 1 - Project Information

### Instructions for Completing

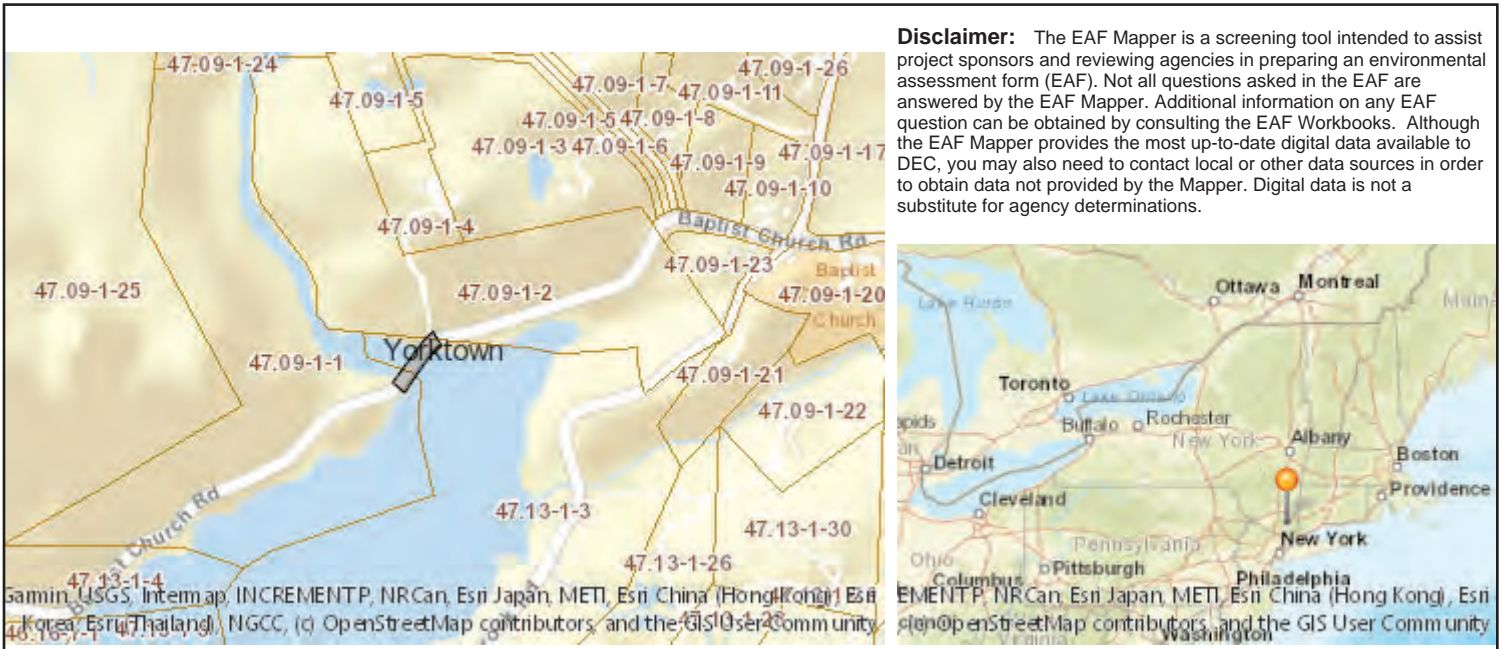
**Part 1 – Project Information.** The applicant or project sponsor is responsible for the completion of Part 1. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification. Complete Part 1 based on information currently available.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

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

<b>Part 1 – Project and Sponsor Information</b>			
Name of Action or Project: Replacement of Baptist Church Road Bridge			
Project Location (describe, and attach a location map): Baptist Church Road over Hunter Brook adjacent to the New Croton Reservoir in the Town of Yorktown, New York. (See Figure 1 for the Location Map)			
Brief Description of Proposed Action: New York City Department of Environmental Protection (DEP) proposes replace the existing two-lane Baptist Church Road Bridge over the Hunter Brook within the Town of Yorktown in Westchester County, New York (BIN 2-26243-0). The Baptist Church Road Bridge (the Bridge) is a 50' single span closed spandrel unreinforced concrete arch structure which carries traffic from Baptist Church Road over Hunter Brook adjacent to the New Croton Reservoir in the Town of Yorktown. The Bridge was built in 1906 and no significant repair or rehabilitation work has been performed on this bridge. The purpose of this project is to improve safety through replacement of the Baptist Church Road Bridge. Replacement of the Bridge is proposed due to deterioration of the existing structure and need for improved roadway drainage.			
Name of Applicant or Sponsor: Paul Costa - Portfolio Manager- NYCDEP BEDC		Telephone: 718-595-5470 E-Mail: <a href="mailto:pcosta@dep.nyc.gov">pcosta@dep.nyc.gov</a>	
Address: 96-05 Horace Harding Expressway			
City/PO: Flushing		State: NY	Zip Code: 11368
1. Does the proposed action only involve the legislative adoption of a plan, local law, ordinance, administrative rule, or regulation? If Yes, attach a narrative description of the intent of the proposed action and the environmental resources that may be affected in the municipality and proceed to Part 2. If no, continue to question 2.		NO <input type="checkbox"/>	YES <input type="checkbox"/>
2. Does the proposed action require a permit, approval or funding from any other government Agency? If Yes, list agency(s) name and permit or approval: See Attachment 1.		NO <input type="checkbox"/>	YES <input checked="" type="checkbox"/>
3. a. Total acreage of the site of the proposed action? _____ 0.963 acres			
b. Total acreage to be physically disturbed? _____ 0.75 acres			
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? _____ 2200 acres			
4. Check all land uses that occur on, are adjoining or near the proposed action:			
5. <input type="checkbox"/> Urban <input checked="" type="checkbox"/> Rural (non-agriculture) <input type="checkbox"/> Industrial <input type="checkbox"/> Commercial <input type="checkbox"/> Residential (suburban)			
<input checked="" type="checkbox"/> Forest <input type="checkbox"/> Agriculture <input checked="" type="checkbox"/> Aquatic <input checked="" type="checkbox"/> Other(Specify): Bridge/Roadway (Two-Lane)			
<input type="checkbox"/> Parkland			

5. Is the proposed action,	NO	YES	N/A
a. A permitted use under the zoning regulations?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b. Consistent with the adopted comprehensive plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6. Is the proposed action consistent with the predominant character of the existing built or natural landscape?	NO <input type="checkbox"/>	YES <input checked="" type="checkbox"/>	
7. Is the site of the proposed action located in, or does it adjoin, a state listed Critical Environmental Area? If Yes, identify: _____	NO <input checked="" type="checkbox"/>	YES <input type="checkbox"/>	
8. a. Will the proposed action result in a substantial increase in traffic above present levels? b. Are public transportation services available at or near the site of the proposed action? c. Are any pedestrian accommodations or bicycle routes available on or near the site of the proposed action?	NO <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	YES <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
9. Does the proposed action meet or exceed the state energy code requirements? If the proposed action will exceed requirements, describe design features and technologies: N/A _____	NO <input type="checkbox"/>	YES <input checked="" type="checkbox"/>	
10. Will the proposed action connect to an existing public/private water supply? If No, describe method for providing potable water: _____ This project does not require a permanent potable water supply. Construction workers will be provided with potable water during the work periods for any activities which would require water. The Contractor is anticipated to bring potable water into site by truck.	NO <input checked="" type="checkbox"/>	YES <input type="checkbox"/>	
11. Will the proposed action connect to existing wastewater utilities? If No, describe method for providing wastewater treatment: _____ This project does not require connection to wastewater utilities. Workers will use portable toilets during the work periods.	NO <input checked="" type="checkbox"/>	YES <input type="checkbox"/>	
12. a. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on the National or State Register of Historic Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places? Based on the response letter from the New York SHPO, there are no historic properties, including archaeological and/or historic resources, will be affected by this project. b. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory?	NO <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	YES <input type="checkbox"/> <input type="checkbox"/>	
13. a. Does any portion of the site of the proposed action, or lands adjoining the proposed action, contain wetlands or other waterbodies regulated by a federal, state or local agency? b. Would the proposed action physically alter, or encroach into, any existing wetland or waterbody? If Yes, identify the wetland or waterbody and extent of alterations in square feet or acres: _____ Hunter Brook adjacent to the New Croton Reservoir. The anticipated open water disturbance area is approximately 0.03 acres. _____	NO <input type="checkbox"/> <input type="checkbox"/>	YES <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	

14. Identify the typical habitat types that occur on, or are likely to be found on the project site. Check all that apply: <input type="checkbox"/> Shoreline <input checked="" type="checkbox"/> Forest <input type="checkbox"/> Agricultural/grasslands <input type="checkbox"/> Early mid-successional <input type="checkbox"/> Wetland <input type="checkbox"/> Urban <input type="checkbox"/> Suburban		
15. Does the site of the proposed action contain any species of animal, or associated habitats, listed by the State or Federal government as threatened or endangered? Fence Lizard, Indiana Bat, Bald Eagle, and Bog Turtle.	NO	YES
	<input type="checkbox"/>	<input checked="" type="checkbox"/>
16. Is the project site located in the 100-year flood plan?	NO	YES
	<input type="checkbox"/>	<input checked="" type="checkbox"/>
17. Will the proposed action create storm water discharge, either from point or non-point sources? If Yes, a. Will storm water discharges flow to adjacent properties? b. Will storm water discharges be directed to established conveyance systems (runoff and storm drains)? If Yes, briefly describe: _____	NO	YES
	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>
18. Does the proposed action include construction or other activities that would result in the impoundment of water or other liquids (e.g., retention pond, waste lagoon, dam)? If Yes, explain the purpose and size of the impoundment: _____	NO	YES
	<input checked="" type="checkbox"/>	<input type="checkbox"/>
49. Has the site of the proposed action or an adjoining property been the location of an active or closed solid waste management facility? If Yes, describe: _____	NO	YES
	<input checked="" type="checkbox"/>	<input type="checkbox"/>
20. Has the site of the proposed action or an adjoining property been the subject of remediation (ongoing or completed) for hazardous waste? If Yes, describe: _____	NO	YES
	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>I CERTIFY THAT THE INFORMATION PROVIDED ABOVE IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE</b>  Applicant/sponsor/name: <u>Paul Costa, PE</u> Date: <u>07/29/2021</u> Signature: <u><i>PCosta</i></u> Title: <u>Portfolio Manager</u>		



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

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

**Attachment 1:  
List of Anticipated  
Permits**

## List of Anticipated Permits - Replacement of Baptist Church Road Bridge

Government Agency	Regulatory Agency and Approval(s) Required
a. City Counsel, Town Board, or Village Board of Trustees	N/A
b. City, Town or Village Planning Board or Commission	Town of Yorktown <ul style="list-style-type: none"> <li>• Wetland Permit</li> <li>• MS4 Stormwater Management Permit</li> <li>• Tree Permit</li> <li>• Planning Board Approval</li> <li>• Site Plan Approval</li> </ul>
c. City, Town, or Village Zoning Board of Appeals	N/A
d. Other local agencies	New York City Department of Environmental Protection (DEP) <ul style="list-style-type: none"> <li>• Stormwater Pollution Prevention Plan Approval</li> </ul> New York City Public Design Commission (NYCPDC) <ul style="list-style-type: none"> <li>• Design Commission Approval</li> </ul>
e. County agencies	N/A
f. Regional agencies	N/A
g. State agencies	New York State Department of Environmental Conservation (NYSDEC) <ul style="list-style-type: none"> <li>• Protection of Waters Permit- Stream Disturbance (Bed and Banks)</li> <li>• Protection of Waters Permit- Excavation and Fill in Navigable Waters</li> <li>• Protection of Waters Permit - 401 Water Quality Certification</li> <li>• State Pollutant Discharge Elimination System General Permit for Stormwater Discharges from Construction Activities (GP-0-20-001)</li> <li>• Stormwater Pollution Prevention Plan (SWPPP) for Stormwater Discharges</li> <li>• Beneficial Use Determination</li> </ul>
h. Federal agencies	United States Army Corps of Engineers (USACE) <ul style="list-style-type: none"> <li>• Nationwide Permit #3 - Maintenance</li> </ul>



**Attachment B**  
**Project Design Plans**



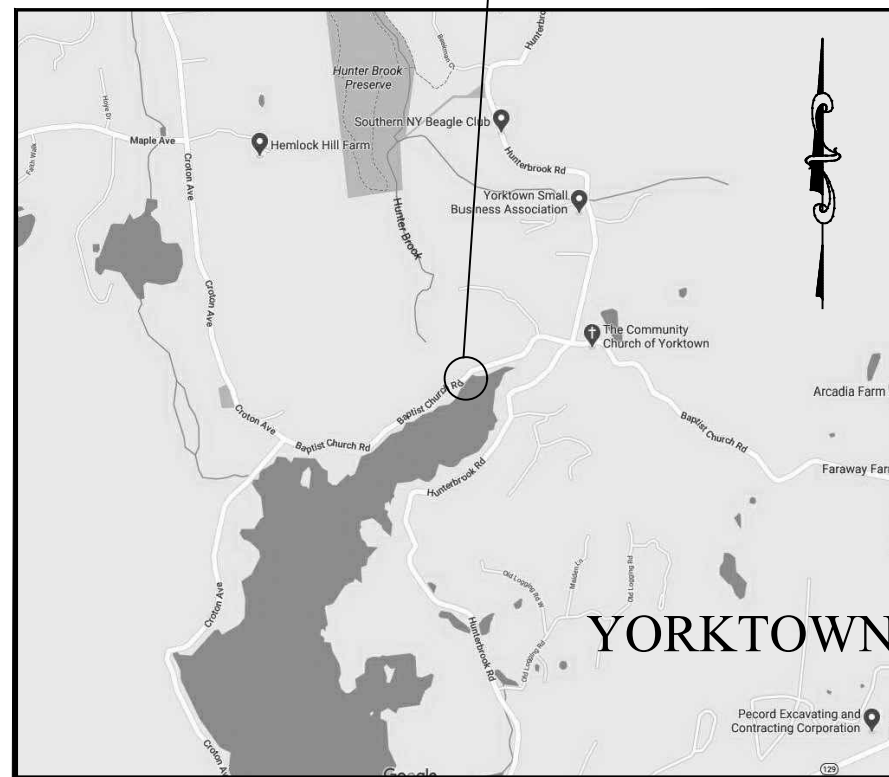
NEW YORK CITY  
 DEPARTMENT OF ENVIRONMENTAL PROTECTION  
 BUREAU OF ENGINEERING DESIGN AND CONSTRUCTION

# CAPITAL PROJECT WM-30 REPLACEMENT OF BAPTIST CHURCH ROAD BRIDGE

## TOWN OF YORKTOWN, WESTCHESTER COUNTY NY CONTRACT CRO-530B

DATE 04/23/2021

BAPTIST CHURCH ROAD  
 BRIDGE  
 BIN 2-26243-0



KEY PLAN

60% DESIGN SUBMITTAL  
 SUBMITTAL DATE: 4/23/2021

SEAN McANDREW, PE.  
 EXECUTIVE DIRECTOR, WATER SYSTEMS CAPITAL PROGRAM  
 BUREAU OF ENGINEERING DESIGN AND CONSTRUCTION

ANA BARRIO  
 DEPUTY COMMISSIONER  
 BUREAU OF ENGINEERING DESIGN AND CONSTRUCTION

VINCENT SAPIENZA, PE.  
 COMMISSIONER  
 NEW YORK CITY DEPARTMENT OF ENVIRONMENTAL PROTECTION

Last Saved By: & Date: jcircosta, Friday, April 23, 2021 and Date Plotted: Tuesday, June 01, 2021 Time: 5:37 PM  
 Paper Size: ANSI A (8.50 x 11.00 inches) Plot Scale: 0.396863 Plot Style Table: (N)\_BEDC\_BW.ctb  
 Drawing Name: & Location: C:\users\jcircosta\Myprod\Arms3007\3-2.dwg

SHEET NO.	ADDED	FIELD CHANGE	REVISED	DRAWING NO.	TITLE
1				G-1	TITLE SHEET
2				G-2	INDEX OF DRAWINGS
3				G-3	SYMBOLS & ABBREVIATIONS
4				G-4	ESTIMATE OF QUANTITIES
5				G-5	GENERAL NOTES - 1
6				G-6	GENERAL NOTES - 2
7				C-1	SURVEY & BASELINE TIES
8				C-2	TYPICAL SECTIONS (SHEET 1 OF 2)
9				C-3	TYPICAL SECTIONS (SHEET 2 OF 2)
10				C-4	PROPOSED ROADWAY ALIGNMENT AND SITE PLAN
11				C-5	ROADWAY PROFILE - 1
12				C-6	ROADWAY PROFILE - 2
13				C-7	ROADWAY DETAILS SHEET
14				MT - 1	WORK ZONE TRAFFIC CONTROL PLAN GENERAL NOTES
15				MT - 2	WORK ZONE TRAFFIC CONTROL PLAN DETOUR PLAN
16				MT - 3	WORK ZONE TRAFFIC CONTROL PLAN SIGN DATA TABLE
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34				S-10	PROPOSED GRANITE CAPSTONE AND SPANDREL WALL
35				S-11	MOMENT SLAB DETAILS
36				S-12	PRECAST DETAILS
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38				S-14	SW RETAINING WALL - REBAR DETAILS
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40				S-16	NE RETAINING WALL - REBAR DETAILS
41				RL-1	RAILING DETAILS -1
42				RL-2	RAILING DETAILS -2
43				RL-3	RAILING DETAILS -3
44				BL-1	BAR LIST & BENDING DIAGRAMS
45				LS-1	LANDSCAPING PLAN & TABLES
46				LS-2	LANDSCAPING DETAILS

STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION DESIGN AND CONSTRUCTION DIVISION		
STANDARD DRAWING NO.	DATE OF LATEST REVISION	TITLE
209-01	9/1/2017	LINEAR MEASURES
209-06	9/2/2010	TURBIDITY CURTAIN
402-01	1/8/2009	HOT MIX ASPHALT OVERLAY SPLICE (PAVEMENT TERMINATION DETAIL)
606-04	1/1/2020	BOX BEAM GUIDE RAIL (SHEET 1 OF 5)
606-04	1/2/2020	BOX BEAM GUIDE RAIL (SHEET 2 OF 5)
606-04	1/2/2020	BOX BEAM GUIDE RAIL (SHEET 3 OF 5)
606-04	1/6/2011	BOX BEAM GUIDE RAIL (SHEET 4 OF 5)
607-01	1/8/2009	R.O.W. FENCING
608-03	3/7/2016	RESIDENTIAL AND MINOR COMMERCIAL DRIVEWAYS (SHEET 1 OF 9)
608-03	3/7/2016	RESIDENTIAL AND MINOR COMMERCIAL DRIVEWAYS (SHEET 2 OF 9)
608-03	3/7/2016	RESIDENTIAL AND MINOR COMMERCIAL DRIVEWAYS (SHEET 3 OF 9)
608-03	3/7/2016	RESIDENTIAL AND MINOR COMMERCIAL DRIVEWAYS (SHEET 4 OF 9)
608-03	2/5/2020	RESIDENTIAL AND MINOR COMMERCIAL DRIVEWAYS (SHEET 5 OF 9)
608-03	3/7/2016	RESIDENTIAL AND MINOR COMMERCIAL DRIVEWAYS (SHEET 9 OF 9)
611-01	9/6/2012	LANDSCAPE PLANTING DETAILS (SHEET 1 OF 2)
611-01	9/6/2012	LANDSCAPE PLANTING DETAILS (SHEET 2 OF 2)
619-01	9/1/2017	TEMPORARY CONCRETE BARRIER (SHEET 1 OF 3)
619-01	9/1/2017	TEMPORARY CONCRETE BARRIER (SHEET 2 OF 3)
619-01	9/1/2017	TEMPORARY CONCRETE BARRIER (SHEET 3 OF 3)
619-02	1/8/2009	TYPE III CONSTRUCTION BARRICADES (SHEET 1 OF 2)
619-02	1/8/2009	TYPE III CONSTRUCTION BARRICADES (SHEET 2 OF 2)
645-03	1/7/2010	POSITIONING OF TRAFFIC SIGNS (SHEET 1 OF 2)
685-01	8/21/2018	PAVEMENT MARKING DETAILS (SHEET 1 OF 9)

60% DESIGN SUBMITTAL  
 SUBMITTAL DATE: 4/23/2021

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NO.	DATE	REVISIONS/DESCRIPTION	APPR'D.

DESIGNED BY:  
 J. CIRCOSTA  
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 DESIGN LEAD:  
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**CAPITAL PROJECT WM-30**  
**IN WESTCHESTER COUNTY, NEW YORK**  
**CONTRACT CRO-530B**  
 INDEX OF DRAWINGS

DATE: 04/23/2021  
 SCALE: NOT TO SCALE  
 SHEET NO:  
 2 OF 46  
 DRAWING NO.  
**G152**

Last Saved By: & Date: Cehlykhova, Tuesday, April 20, 2021 and Date Plotted: Tuesday, June 01, 2021 Time: 3:36 PM  
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LIST OF ABBREVIATIONS			
ABBREVIATIONS	DESCRIPTION	ABBREVIATIONS	DESCRIPTION
ABUT.	ABUTMENT	M.H.	MANHOLE
AH	AHEAD	M.H.W.	MEAN HIGH WATER
APPROX.	APPROXIMATELY	MIN.	MINIMUM
A.O.B.E.	AS ORDERED BY ENGINEER	MISC.	MISCELLANEOUS
A.S.T.M.	AMERICAN SOCIETY FOR TESTING AND MATERIALS	M.O.	MIDDLE ORDINATE
B.C.	BOTTOM OF CURB	MON.	MONUMENT
B.I.N.	BRIDGE IDENTIFICATION NUMBER	N.E.	NORTH EAST
BK.	BACK	NO. or #	NUMBER
B.L.	BASELINE	N/A	NOT APPLICABLE
BLDG.	BUILDING	N.T.S.	NOT TO SCALE
B.M.	BENCH MARK	N.W.	NORTH WEST
B.O.S.	BOTTOM OF SLOPE	PVMT.	PAVEMENT
B.W.	BOTTOM OF RETAINING WALL	P.C.	POINT OF CURVE
B.W.S.	BUREAU OF WATER SUPPLY	P.C.C.	POINT OF COMPOUND CURVATURE
CATH.	CATHODIC PROTECTION	P.I.	POINT OF INTERSECTION
C.B.	CATCH BASIN	P.I.N.	PROJECT IDENTIFICATION NUMBER
C.C.	CENTER TO CENTER	P.L.	PROPERTY LINE
C.I.P.	CAST IRON PIPE	P.R.C.	POINT OF REVERSE CURVATURE
C.L.	CENTERLINE	PROP.	PROPOSED
C.L.F.	CHAIN LINKED FENCE	P.T.	POINT OF TANGENT
△	CENTRAL ANGLE	P.V.C.	POINT OF VERTICAL CURVATURE
CL	CLEARANCE	P.V.C.C.	POINT OF VERTICAL COMPOUND CURVE
CONC.	CONCRETE	P.V.I.	POINT OF VERTICAL INTERSECTION
CONSTR.	CONSTRUCTION	P.V.R.C.	POINT OF REVERSE CURVE
CONTR.	CONTRACTION	P.V.T.	POINT OF VERTICAL TANGENCY
C.M.P.	CORRUGATED METAL PIPE	R. or RAD.	RADIUS
C.P.	CONCRETE PIPE	R.C.P.	REINFORCED CONCRETE PIPE
C.R.W.	CONCRETE RETAINING WALL	RD.	ROAD
CUL.	CULVERT	RDWY	ROADWAY
C.Y.	CUBIC YARDS	RM.	ROOM
D.	DEGREE OF CURVE	R.O.W.	RIGHT OF WAY
DET.	DETAIL	R.R.	RAILROAD
D.I.P.	DUCTILE IRON PIPE	R.W.	RETAINING WALL
DIA.	DIAMETER	S.E.	SOUTH EAST
DWG.	DRAWING	S.F.	SQUARE FOOT
DWY.	DRIVEWAY	SPEC.	SPECIFICATION
EA.	EACH	S.M.H.	SEWER MANHOLE
E.I.C.	ENGINEER IN CHARGE	S.S.D.	STOPPING SIGHT DISTANCE
E.O.P.	EDGE OF PAVEMENT	ST.	STREET
ELEV.	ELEVATION	STA.	STATION
E.MAX.	MAXIMUM SUPERELEVATION	STD.	STANDARD
EQ.	EQUALITY	STK.	STAKE
E.S.	END SECTION	S.W.	SOUTH WEST
EST.	ESTIMATE	S.Y.	SQUARE YARD
EXIST.	EXISTING	T.	TANGENT
EXT.	EXTERNAL	T.C.	TOP OF CURB
F.D.	FOUNDATION	TEL.P.	TELEPHONE POLE
FED.	FEDERAL	T.G.	TOP OF GRATE
F.I.	FIELD INLET	T.G.L.	THEORETICAL GRADE LINE
FT.	FOOT	THK.	THICK
G.	GAS	T.M.H.	TELEPHONE MANHOLE
G.V.	GAS VALVE	T.O.S.	TOP OF SLOPE
HORIZ.	HORIZONTAL	T.R.N.S.	TRANSITE CONDUIT
H.P.G.	HIGH PRESSURE GAS	T.W.	TOP OF RETAINING WALL
H.S.D.	HEADLIGHT SIGHT DISTANCE	TYP.	TYPICAL
H.W.	HEAD WALL	U.P.	UTILITY POLE
HYD.	HYDRANT	V.C.	VERTICAL CURVE
INV.	INVERT	V.C.P.	VITRIFIED CLAY PIPE
JT.	JOINT	VERT.	VERTICAL
L.	LENGTH	V.T.P.	VITRIFIED TILE PIPE
L.F.	LINEAR FEET	W.	WATER
L.P.	LIGHT POLE	W.M.H.	WATER MANHOLE
CP	COMPLETE PENETRATION	W.W.	WINGWALL
L.P.G.	LOW PRESSURE GAS	W.P.	WORKING POINT
L.S.	LUMP SUM		
MAX.	MAXIMUM		

LEGEND		
FEATURE	PROPOSED	EXISTING
BARRICADE	■ ■ ■	
BASELINE		— 345+00 —
BENCH MARK		□ B.M. 12
BORING OR AUGER HOLE		⊙ B26
BOTTOM OF FILL	— — — — —	— — — — —
BOX BEAM OR W BEAM GUIDE RAILING		— — — — —
BOX BEAM OR W BEAM MALL BARRIER		— — — — —
BRIDGE RAIL (IDENTIFIED)		— — — — —
BRIDGE SCUPPER	■ SC.	□ SC.
BRUSH		BRUSH
BUILDING IN GENERAL		— — — — —
TRAFFIC CONTROL SIGNAL	○ →	○ →
TRAFFIC SIGNAL	⊕	⊕
CATCH BASIN	■ C.B.	□ C.B.
CATCH BASIN – ADJUSTMENT RINGS (LEVELING)	⊗	□ C.B.
CATCH BASIN – NEW FRAMES AND GRATES	■	□ C.B.
CATCH BASIN – REBUILDING TOP OF DRAINAGE STRUCTURES	■	□ C.B.
CATCH BASIN – RESET EXISTING FRAMES AND GRATES	⊗	□ C.B.
CENTERLINE	— — — — —	— — — — —
CHANNEL, OPEN ASPHALT	— — — — —	— — — — —
TRANSIT POINT		△
CONCRETE MEDIAN OR HALF SECTION BARRIER (INDICATED)	— — — — —	— — — — —
TREES, CONIFEROUS	⊗	⊗
TREES, DECIDUOUS	⊗	⊗
CONDUIT AND WIRING (SIZE AND TYPE AS SHOWN –N.Y.C.)	— E — E —	— E — E —
CONDUIT AND WIRING (SIZE AND TYPE AS SHOWN –CON EDISON)	— CE —	— CE —
CONDUIT – EMPIRE CITY SUBWAY	— ECS —	— ECS —
CONDUIT – TELEPHONE	— T —	— T —
CONDUIT – POLICE DEPARTMENT	— PD —	— PD —
TREES TO BE REMOVED		⊗
CONTOURS	— 70 — — 80 —	— 70 — — 80 —
CURB	— — — — —	— — — — —
DITCH	— — — — —	— — — — —
DROP INLET	□ D.I.	□ D.I.
FENCE (IDENTIFY)	— x —	— x —
FIELD INLET	□ F.I.	□ F.I.
FIRE ALARM SIGNAL BOX WITH ERS BOX	■ F	□ F
FIRE HYDRANT	●	○
GAS LINE (SIZE INDICATED WHERE KNOWN)	— G —	— G —
GAS VALVE	— G.V. —	— G.V. —
HEAD WALL		— — — — —
HEAVY POST BLOCKED-OUT CORRUGATED BEAM GUIDE RAILING	— — — — —	— — — — —


LEGEND		
FEATURE	PROPOSED	EXISTING
HEDGE	— — — — —	— — — — —
JUNCTION BOX (SIZE INDICATED)	□	□
LIGHT POLE	⊙	⊙
LIMIT OF PAVING	— — — — —	
MANHOLE – NEW	⊙ M.H.	
MANHOLE – ADJUSTMENT RINGS (LEVELING)	⊗	○ M.H.
MANHOLE – NEW FRAMES AND GRATES	⊙	○ M.H.
MANHOLE – REBUILDING TOP OF DRAINAGE STRUCTURES	⊙	○ M.H.
MANHOLE – RESET EXISTING FRAMES AND GRATES	⊗	○ M.H.
MONUMENT		□ CM
NORTH ARROW (TRUE)		— — — — —
ORIGINAL GROUND		— — — — —
POINT ON LINE		○
POLICE TELEPHONE	■ P	□ P
PRESSURE RELIEF JOINT	— — — — —	
TREES AND WOODS	⊗	⊗
RAILROAD TRACK		— — — — —
RETAINING WALL OR PARAPET (TYPE)	— — — — —	— — — — —
R.O.W. LINE	— — — — —	— — — — —
RIPRAP (STONE FILLING)	— — — — —	
ANCHORAGE UNIT FOR GUIDE RAIL	■	□
EASEMENT	— — — — —	
SEWER, SANITARY	— S —	— S —
SEWER, STORM	— ST —	— ST —
SEWER COMBINED		— STS —
SIGNS, GROUND MOUNTED	— — — — —	— — — — —
SIGN LOCATION	⊙	
SIGN, OVERHEAD	— — — — —	— — — — —
SPOT ELEVATION (DOT IS LOCATION)		103.2
UTILITY VALVE IDENTIFIED	— — — — —	— — — — —
STATE ROUTE MARKER	⑤	⑤
WATER VALVE	□ W.V.	□ W.V.
WATER LINE (SIZE INDICATED WHERE KNOWN)	— W —	— W —
UTILITY POLE	○	○
INTERSTATE	④95	④95
TEMPORARY PAVEMENT	— — — — —	
WATER PIPE INTERSECTION		⊗
WELDING SYMBOL	— — — — —	N.A.
REPAIR LOCATIONS	⊙	N.A.

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 SUBMITTAL DATE: 4/23/2021

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CHECKED BY: R. ROMAN, PE	 HARDESTY & HANOVER, LLC ENGINEERING 1501 Broadway New York, NY 10036
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SECTION MANAGER:	



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**CAPITAL PROJECT WM-30**  
**IN WESTCHESTER COUNTY, NEW YORK**  
**CONTRACT CRO-530B**

SYMBOLS & ABBREVIATIONS

DATE: 04/23/2021
SCALE: NOT TO SCALE
SHEET NO: 3 OF 46
DRAWING NO. G163

All inquiries regarding this drawing(s) or project should be made to NYC Environmental Protection, Bureau of Engineering Design and Construction.

Last Saved By & Date: Cshlykhtova, Tuesday, June 01, 2021 and Date Plotted: Tuesday, June 01, 2021 Time: 9:19 AM  
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 Drawing Name: & Location: C:\users\cshlykhtova\hprod\jms38067\G-4.dwg

ESTIMATE OF QUANTITIES				
BID NO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
1	LS-1	MOBILIZATION	LS	1
2	LS-2	GENERAL REQUIREMENTS	LS	1
3	LS-3	WORK RESULT	LS	1
4	LS-4	DE-MOBILIZATION	LS	1
5	UP-1	ROCK EXCAVATION	CY	350
6	UP-2	REMOVE AND RESET GRANITE CAPSTONES	SF	520
7	202.19	REMOVAL OF SUBSTRUCTURE	CY	870
8	203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	CY	3600
9	203.03	EMBANKMENT IN PLACE	CY	1740
10	203.07	SELECT GRANULAR FILL	CY	1587
11	203.21	SELECT STRUCTURE FILL	CY	1704
12	206.01	STRUCTURE EXCAVATION	CY	1118
13	207.20	GEOTEXTILE BEDDING	SY	68
14	207.26	PREFABRICATED COMPOSITE STRUCTURAL DRAIN	SY	369
15	209.13	SILT FENCE - TEMPORARY	LF	605
16	209.1501	TURBIDITY CURTAIN - TEMPORARY	LF	764
17	304.11	SUBBASE COURSE, TYPE 1	CY	472
18	402.000014	PLANT PRODUCTION QUALITY ADJUSTMENT TO HMA ITEMS	QU	37
19	402.128304	12.5 F3 TOP COURSE HMA, 80 SERIES COMPACTION	TON	143
20	402.198904	19 F9 BINDER COURSE HMA, 80 SERIES COMPACTION	TON	112
21	402.378904	37.5 F9 BASE COURSE, 80 SERIES COMPACTION	TON	456
22	407.0102	DILUTED TACK COAT	GALLON	197
23	490.30	MISCELLANEOUS COLD MILLING OF BITUMINOUS CONCRETE	SY	233
24	520.09000010	SAWCUTTING ASPHALT PAVEMENT, CONCRETE PAVEMENT AND ASPHALT OVERLAY ON CONCRETE PAVEMENT	LF	53
25	553.010001	COFFERDAMS (TYPE 1)	EACH	2
26	555.0105	CONCRETE FOR STRUCTURES, CLASS A	CY	418
27	555.02000010	CONCRETE FOR STRUCTURES, CLASS MP (MASS PLACEMENT)	CY	170
28	555.08	FOOTING CONCRETE, CLASS HP	CY	598
29	556.0202	EPOXY COATED BAR REINFORCEMENT FOR STRUCTURES	LB	156719
30	557.09	SUPERSTRUCTURE SLAB WITH SEPARATE WEARING SURFACE, BOTTOM FORMWORK NOT REQUIRED	SY	160
31	562.0101	REINFORCED CONCRETE SPAN UNITS	SY	216
32	568.52	STEEL BRIDGE RAIL (FIVE-RAIL)	LF	149
33	568.70	TRANSITION BRIDGE RAILING	LF	128
34	570.01	LEAD EXPOSURE CONTROL PROGRAM	LS	1
35	570.02	MEDICAL TESTING	DIRECT COST	1
36	570.03	PERSONAL EXPOSURE MONITORING SAMPLE ANALYSIS	DIRECT COST	1
37	570.04	DECONTAMINATION FACILITIES	CALENDAR WEEK	3
38	570.090001	ENVIRONMENTAL GROUND PROTECTION	LS	1
39	570.100001	ENVIRONMENTAL WATERWAY PROTECTION	LS	1

ESTIMATE OF QUANTITIES				
BID NO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
40	570.160001	CLASS B CONTAINMENT SYSTEM FOR PAINT REMOVAL	LS	1
41	571.03	DISPOSAL OF HAZARDOUS PAINT REMOVAL WASTE CONTAINING LEAD	LB	1
42	586.0201	DRILLING AND GROUTING BOLTS OR REINFORCEMENT BARS	EA	162
43	587.01	BRIDGE RAILING REMOVAL AND DISPOSAL	LF	128
44	606.100002	BOX BEAM GUIDE RAILING (SHOP BENT OR SHOP MITERED)	LF	393
45	606.120101	BOX BEAM END PIECE	EA	5
46	606.120201	BOX BEAM GUIDE RAILING END ASSEMBLY TYPE IIA	EACH	1
47	606.71	REMOVING AND DISPOSING CORRUGATED BEAM GUIDE RAILING	LF	213
48	607.41010010	TEMPORARY PLASTIC BARRIER FENCE	LF	962
49	608.020102	HMA SIDEWALKS, DRIVEWAYS AND BICYCLE PATHS, AND VEGETATION CONTROL STRIPS	TON	26
50	610.1402	TOPSOIL - ROADSIDE	CY	105
51	614.060204	TREE REMOVAL OVER 6 INCHES TO 12 INCHES DIAMETER BREAST HEIGHT - STUMPS GRUBBED	EACH	62
52	614.060304	TREE REMOVAL OVER 12 INCHES TO 18 INCHES DIAMETER BREAST HEIGHT - STUMPS GRUBBED	EACH	13
53	614.060404	TREE REMOVAL OVER 18 INCHES TO 24 INCHES DIAMETER BREAST HEIGHT - STUMPS GRUBBED	EACH	3
54	614.060504	TREE REMOVAL OVER 24 INCHES TO 36 INCHES DIAMETER BREAST HEIGHT - STUMPS GRUBBED	EACH	8
55	619.01	BASIC WORK ZONE TRAFFIC CONTROL	LS	1
56	619.04	TYPE III CONSTRUCTION BARRICADES	EACH	5
57	619.1711	TEMPORARY POSITIVE BARRIER - CATEGORY 1 - PINNING PROHIBITED	LF	40
58	620.02	STONE FILLING (FINE)	CY	6
59	620.0802	BEDDING MATERIAL	CY	4
60	623.11	CRUSHED GRAVEL	CY	50
61	625.01	SURVEY OPERATIONS	LS	1
62	640.10	WHITE PAINT REFLECTORIZED PAVEMENT STRIPES - 15 MILS	LF	1140
63	640.11	YELLOW PAINT REFLECTORIZED PAVEMENT STRIPES - 15 MILS	LF	1140
64	645.5202	GROUND MOUNTED SIGN PANEL LESS THAN OR EQUAL TO 30 SF, WITH Z-BARS, HIGH VISIBILITY SHEETING	SF	38
65	645.81	TYPE A SIGN POST	EACH	5
66	647.61	REMOVE AND DISPOSE EXISTING SIGN AND SUPPORT	EACH	2

NOTE:  
 ALL MEASUREMENTS AND PAYMENT ON THIS PROJECT SHALL BE IN ENGLISH UNITS AS TABULATED ON THIS DRAWING.

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 SUBMITTAL DATE: 4/23/2021

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 CHECKED BY:  
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 DESIGN LEAD:  
 S. LEWIS  
 SECTION MANAGER:

DRAWN BY:  
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**CAPITAL PROJECT WM-30**  
**IN WESTCHESTER COUNTY, NEW YORK**  
**CONTRACT CRO-530B**  
**ESTIMATE OF QUANTITIES**

DATE: 04/23/2021  
 SCALE: NOT TO SCALE  
 SHEET NO:  
 4 OF 46  
 DRAWING NO.  
**G74**



Last Saved By: & Date: Cehlykhova, Tuesday, June 01, 2021 and Date Plotted: Monday, July 26, 2021 Time: 9:21 AM  
 Paper Size: ANSI A (8.50 x 11.00 inches) Plot Scale: 0.336863 Plot Style Table: (N)\_BENC\_LW.ctb  
 Drawing Name: & Location: C:\Users\cehlykhova\Inprod\Arms58007\3-6.dwg

**CONCRETE REMOVAL AND REPAIR**

- ALL MATERIAL AND DEBRIS SHALL BE CONTAINED, COLLECTED AND SHALL NOT ENTER THE RESERVOIR SYSTEM OR HUNTER BROOK. COST SHALL BE PAID FOR UNDER ITEM 570.100001, ENVIRONMENTAL WATERWAY PROTECTION.
- THE CONTRACTOR MAY BE PERMITTED TO USE EQUIPMENT MOUNTED PAVEMENT BREAKERS, (E.G. HOE RAMS), IN THE REMOVAL OF CONCRETE PROVIDED THAT (A) THERE ARE NO UTILITIES PRESENT WITHIN OR BELOW THE AREA OF THE CONCRETE TO BE REMOVED, (B) THE PROVISIONS OF SUB-SECTIONS 580-3.01, 580-3.04 AND 580-3.05 OF THE NYSDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS DATED MAY 1, 2019 CURRENTLY AMENDED ARE ADHERED TO. IF THE ENGINEER DETERMINES THAT THE CONTRACTOR'S OPERATION WOULD RESULT IN DAMAGE TO ANY CONCRETE OR ANY OTHER COMPONENT OF THE STRUCTURE THAT WILL REMAIN, THE CONTRACTOR SHALL MODIFY HIS REMOVAL PROCEDURE AT NO ADDITIONAL COST. THESE MODIFIED REMOVAL PROCEDURES SHALL INCLUDE THE USE OF HAND OPERATED CHIPPING HAMMERS IF SO ORDERED BY THE ENGINEER AND SHALL COMPLY WITH PROVISIONS OF 580-3.02.

**LOAD RESTRICTION**

- THE CONTRACTOR'S ATTENTION IS DIRECTED TO NEW YORK STATE STANDARD SPECIFICATIONS SUBSECTION 105-12, CONSTRUCTION EQUIPMENT.

**BRIDGE DEMOLITION**

- THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE REQUIREMENTS OF SUBSECTION 202-3.01 GENERAL AND SAFETY REQUIREMENTS. A REMOVAL PLAN, SIGNED BY A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF NEW YORK, SHALL BE SUBMITTED TO THE ENGINEER THIRTY (30) DAYS PRIOR TO BEGINNING THE DEMOLITION OF THE BRIDGE. THE REMOVAL PLAN MUST BE APPROVED BY THE ENGINEER OF RECORD PRIOR TO STARTING WORK.
- LIMITED RECORD PLANS FOR THIS STRUCTURE ARE AVAILABLE AT THE NYCDEP VALHALLA OFFICE, CONTACT MR. JEFFREY A. BUSSE, PE (914-749-5417).
- THE PAINT ON THE EXISTING BRIDGE RAILING CONTAINS LEAD. THE CONTRACTOR CAN REQUEST A COPY OF THE HAZARDOUS MATERIALS INVESTIGATION REPORT FROM NYCDEP, CONTACT MR. JEFFREY A. BUSSE, PE (914-749-5417).
- LOOSE AND/OR PEELING PAINT ON RAILING/MASONRY SURFACES MAY BECOME DISLODGED DURING REMOVAL OPERATIONS OR DURING TRANSPORTATION FROM THE SITE UNLESS APPROPRIATE MEASURES ARE TAKEN. THE CONTRACTOR SHALL FORMULATE AND SUBMIT A METHOD OF REMEDIATING THE CONDITION FOR APPROVAL BY THE ENGINEER. WORKER LEAD PROTECTION IN ACCORDANCE WITH OSHA 1926.62 MUST BE SATISFIED. ALTERNATIVES COULD INCLUDE TRANSPORTING AFFECTED MEMBERS IN CLOSED TRUCKS, WRAPPING AFFECTED MEMBERS PRIOR TO REMOVAL, ENCAPSULATING THE LOOSE PAINT OR REMOVAL OF LOOSE PAINT PRIOR TO DISMANTLING OPERATIONS. THE USE OF ENVIRONMENTAL GROUND AND /OR WATERWAY PROTECTION TREATMENT AND DISPOSAL OF PAINT REMOVAL WASTE ITEM MAY BE REQUIRED. ITEMS WILL BE REQUIRED. DEPENDING ON THE ALTERNATIVE CHOSEN, BECAUSE OF THE ABOVE MENTIONED CONDITION, THE CONTRACTOR SHALL EXAMINE THE CONDITION OF THE STRUCTURE'S PAINT PRIOR TO SUBMITTING A BID.
- THE FOLLOWING ITEMS SHALL BE USED TO IMPLEMENT AND MAINTAIN EFFECTIVE HEALTH AND SAFETY CONTROLS:
  - LEAD EXPOSURE CONTROL PLAN - 570.01
  - MEDICAL TESTING - 570.02
  - PERSONAL EXPOSURE MONITORING SAMPLE ANALYSIS - 570.03
  - DECONTAMINATION FACILITIES - 570.04

**GRANITE CAPSTONE AND PYLONS**

- THE CONTRACTOR SHALL FURNISH ALL EQUIPMENT, MATERIALS, LABOR AND SERVICES NECESSARY FOR THE PROPER EXECUTION OF REMOVAL OF THE EXISTING GRANITE CAPSTONES AND PYLONS ON THE BRIDGE AS SHOWN ON THESE CONTRACT DRAWINGS INCLUDING ALL INCIDENTAL AND APPURTENANT WORK REQUIRED FOR A COMPLETE JOB.
- ALL MATERIALS EXCEPT GRANITE CAPSTONES AND PYLONS REMOVED AS PART OF THIS WORK SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE WORK SITE AND PROPERLY DISPOSED OF AT THE CONTRACTOR'S OWN EXPENSE. THE EXISTING CYCLOPEAN STONE MASONRY REMOVED UNDER THIS CONTRACT SHALL REMAIN THE PROPERTY OF NYCDEP AND SHALL BE REUSED ON THE PROPOSED WINGWALL, WINGWALL EXTENSIONS AND ALONG THE PROPOSED SPANDREL WALLS. THE STONES SHALL BE CLEANED, CUT AND INSTALLED IN ACCORDANCE WITH 04 41 00 - REMOVE AND RESET GRANITE CAPSTONES.

- FOLLOWING THE REMOVAL OF THE STEEL PIPE RAILING FROM THE GRANITE CAPSTONES, THE EXISTING HOLES WHERE STEEL POSTS WERE FASTENED SHALL BE SUBSTANTIALLY CLEANED, FREE OF LOOSE DEBRIS, AND SHALL BE LEAD ABATED BY THE CONTRACTOR PRIOR TO REUSE ON THE PROPOSED BRIDGE STRUCTURE. LEAD PAINT REMOVAL AT THE EXISTING HOLES IN THE GRANITE CAPSTONES AFTER STEEL PIPE RAILING REMOVAL SHALL BE PAID FOR UNDER ITEM 570.160001.

**CONSTRUCTION AND MATERIALS**

**STRUCTURAL CONCRETE - GENERAL**

- REINFORCEMENT BARS SHALL BE EPOXY COATED DEFORMED BARS ASTM A615 GRADE 60 UNLESS NOTED. YIELD STRENGTH OF REINFORCEMENT,  $f_y = 60$  KSI.
- CLASS A AND HP CONCRETE ARE USED AS STRUCTURAL CONCRETE FOR THE CAST-IN-PLACE SUBSTRUCTURES AS NOTED IN THE PLANS. THE STRUCTURAL CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS:  $f'_c = 4000$  PSI
- ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1" UNLESS OTHERWISE NOTED ON THE PLANS
- UNLESS OTHERWISE SHOWN ON THE PLANS THE MINIMUM COVER FOR REINFORCEMENT SHALL BE AS SHOWN IN THE TABLE BELOW:

LOCATION	COVER
TOP OF MOMENT SLAB	3"
BOTTOM OF MOMENT SLAB	3"
WALLS ABOVE FOOTINGS	2"
FOOTINGS	3"
PRECAST ARCH EXPOSED SURFACE	1 1/2"
PRECAST ARCH OTHER SURFACES	2"

- DUE TO THE PROJECT'S TIME CONSTRAINTS, WINTER CONCRETING MAY BE NECESSARY. IF IT IS NECESSARY AND THE CONTRACTOR IS DIRECTED BY THE ENGINEER TO DO WINTER CONCRETING, THE COST OF THIS WORK SHALL BE INCLUDED IN THE APPROPRIATE CONCRETE BID ITEMS.
- COST OF REINFORCEMENT FOR MOMENT SLAB SHALL BE INCLUDED IN COST OF THE SLAB, ITEM NUMBER 557.22.
- PRECAST ARCH UNITS, PRECAST SPANDREL WALLS, CAST-IN-PLACE STEMS OF WINGWALLS AND THE ABUTMENT COLUMNS SHALL BE MADE FROM COLORED CONCRETE WITH A LIGHT SANDBLAST FINISH. PRIOR TO PLACING ANY COLORED CONCRETE SUBMIT A TEST SAMPLE CONSISTING OF 4'X4'X1' PANEL USING THE PROPOSED MIX. NO CONCRETE SHALL BE PLACED OR PANEL MANUFACTURED PRIOR TO THE ACCEPTANCE OF THE TEST SAMPLES BY THE ENGINEER. THE COST OF THE TEST SAMPLES SHALL BE INCLUDED IN COST OF ITEMS COVERED BY THE SAMPLES.


**SUBSTRUCTURE**

- ALL EMBANKMENTS OF SELECT STRUCTURAL FILL (ITEM 203.21) SHALL BE COMPACTED TO 95% OF STANDARD PROCTOR MAXIMUM DENSITY AS DEFINED UNDER SUBSECTION 203-3.12 COMPACTION.
- HIGHWAY EMBANKMENT (HIGHWAY ESTIMATE), SELECT STRUCTURAL FILL, ITEM 203.21, SHALL BE PLACED SIMULTANEOUSLY IN CONTACT, ON BOTH SIDES OF THE VERTICAL PAYMENT LINE. SHEETING OR OTHER MEANS SHALL NOT BE USED TO SEPARATE THE MATERIALS.
- ALL EXCAVATION AND EMBANKMENTS ARE TO BE KEPT FREE OF WATER, ICE AND SNOW.
- EXCAVATION BELOW PLANNED FOOTING ELEVATION WILL NOT BE ALLOWED WITHOUT WRITTEN PERMISSION FROM THE ENGINEER. BACKFILL OF UNAUTHORIZED EXCAVATIONS BELOW OR BEYOND PAYMENT LINES WILL BE AT THE CONTRACTOR'S EXPENSE. BACKFILL MATERIAL WILL BE AS DIRECTED BY THE ENGINEER.

60% DESIGN SUBMITTAL  
 SUBMITTAL DATE: 4/23/2021

GRAPHIC SCALES  
 CHECK BEFORE USE  
 IF SHEET IS LESS THAN 22" X 34"  
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 ACCORDINGLY

NO.	DATE	REVISIONS/DESCRIPTION	APPR'D.

DESIGNED BY: J. CIRCOSTA	DRAWN BY: J. CIRCOSTA
CHECKED BY: R. WUTTRICH, PE	
DESIGN LEAD: O. HUNTER, PE	HARDESTY & HANOVER, LLC ENGINEERING 1501 Broadway New York, NY 10036
SECTION MANAGER:	



ACCOUNTABLE MANAGER JEFFREY A. BUSSE, PE
PORTFOLIO MANAGER PAUL COSTA, PE
EXECUTIVE DIRECTOR SEAN McANDREW, PE

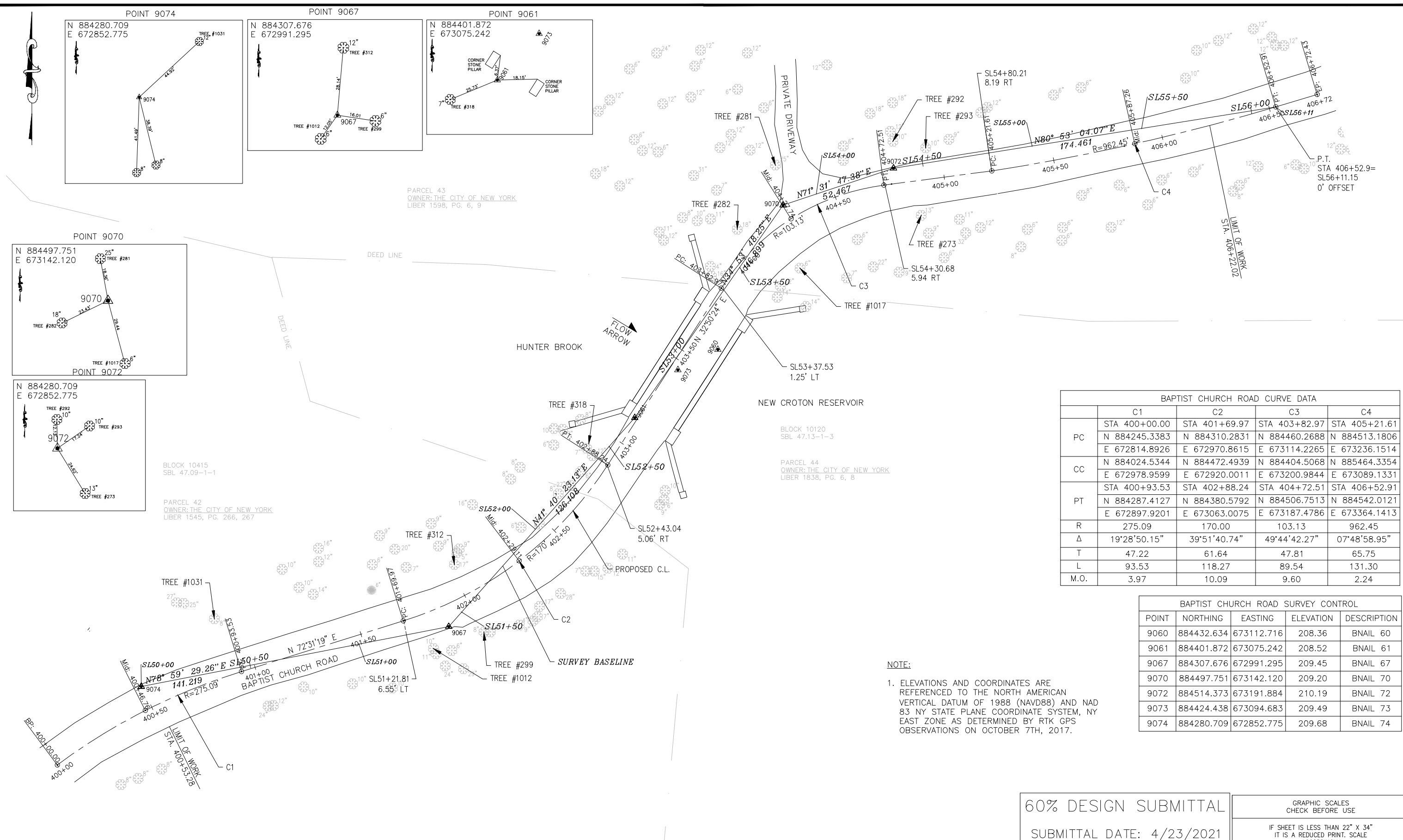
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 CORONA, NEW YORK 11368  
 www.nyc.gov/dep

**CAPITAL PROJECT WM-30  
 IN WESTCHESTER COUNTY, NEW YORK  
 CONTRACT CRO-530B**  
 GENERAL NOTES - 2

DATE: 04/23/2021
SCALE: NOT TO SCALE
SHEET NO: 6 OF 46
DRAWING NO. G196

Last Saved By & Date: Ncrevier, Friday, April 23, 2021 and Date Plotted: Tuesday, June 01, 2021 Time: 2:13 PM  
 Paper Size: ANSI A (8.50 x 11.00 Inches) Plot Scale: 0.388663 Plot Style Table: (N)\_BDC\_BW.ctb  
 Drawing Name: C:\Users\cshiyakhova\hprod\dms37923\BAPTIST CHURCH\_TIE AND ALIGNMENT.dwg



PARCEL 43  
 OWNER: THE CITY OF NEW YORK  
 LIBER 1598, PG. 6, 9

BLOCK 10120  
 SBL 47.13-1-3

PARCEL 44  
 OWNER: THE CITY OF NEW YORK  
 LIBER 1838, PG. 6, 8

BLOCK 10415  
 SBL 47.09-1-1

PARCEL 42  
 OWNER: THE CITY OF NEW YORK  
 LIBER 1545, PG. 266, 267

BAPTIST CHURCH ROAD CURVE DATA				
	C1	C2	C3	C4
PC	STA 400+00.00	STA 401+69.97	STA 403+82.97	STA 405+21.61
	N 884245.3383 E 672814.8926	N 884310.2831 E 672970.8615	N 884460.2688 E 673114.2265	N 884513.1806 E 673236.1514
CC	N 884024.5344 E 672978.9599	N 884472.4939 E 672920.0011	N 884404.5068 E 673200.9844	N 885464.3354 E 673089.1331
PT	STA 400+93.53	STA 402+88.24	STA 404+72.51	STA 406+52.91
	N 884287.4127 E 672897.9201	N 884380.5792 E 673063.0075	N 884506.7513 E 673187.4786	N 884542.0121 E 673364.1413
R	275.09	170.00	103.13	962.45
Δ	19°28'50.15"	39°51'40.74"	49°44'42.27"	07°48'58.95"
T	47.22	61.64	47.81	65.75
L	93.53	118.27	89.54	131.30
M.O.	3.97	10.09	9.60	2.24

BAPTIST CHURCH ROAD SURVEY CONTROL				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
9060	884432.634	673112.716	208.36	BNAIL 60
9061	884401.872	673075.242	208.52	BNAIL 61
9067	884307.676	672991.295	209.45	BNAIL 67
9070	884497.751	673142.120	209.20	BNAIL 70
9072	884514.373	673191.884	210.19	BNAIL 72
9073	884424.438	673094.683	209.49	BNAIL 73
9074	884280.709	672852.775	209.68	BNAIL 74

**NOTE:**  
 1. ELEVATIONS AND COORDINATES ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) AND NAD 83 NY STATE PLANE COORDINATE SYSTEM, NY EAST ZONE AS DETERMINED BY RTK GPS OBSERVATIONS ON OCTOBER 7TH, 2017.

**60% DESIGN SUBMITTAL**  
 SUBMITTAL DATE: 4/23/2021

GRAPHIC SCALES  
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 ACCORDINGLY

NO.	DATE	REVISIONS/DESCRIPTION	APPR'D.

DESIGNED BY:  
 N. CREVIER, PE  
 CHECKED BY:  
 C. JENNE, PE  
 DESIGN LEAD:  
 O. HUNTER, PE  
 SECTION MANAGER:

DRAWN BY:  
 N. CREVIER, PE  
  
 HARDESTY & HANOVER, LLC  
 ENGINEERING  
 1501 Broadway New York, NY 10036



ACCOUNTABLE MANAGER  
 JEFFREY A. BUSSE, PE  
 PORTFOLIO MANAGER  
 PAUL COSTA, PE  
 EXECUTIVE DIRECTOR  
 SEAN McANDREW, PE

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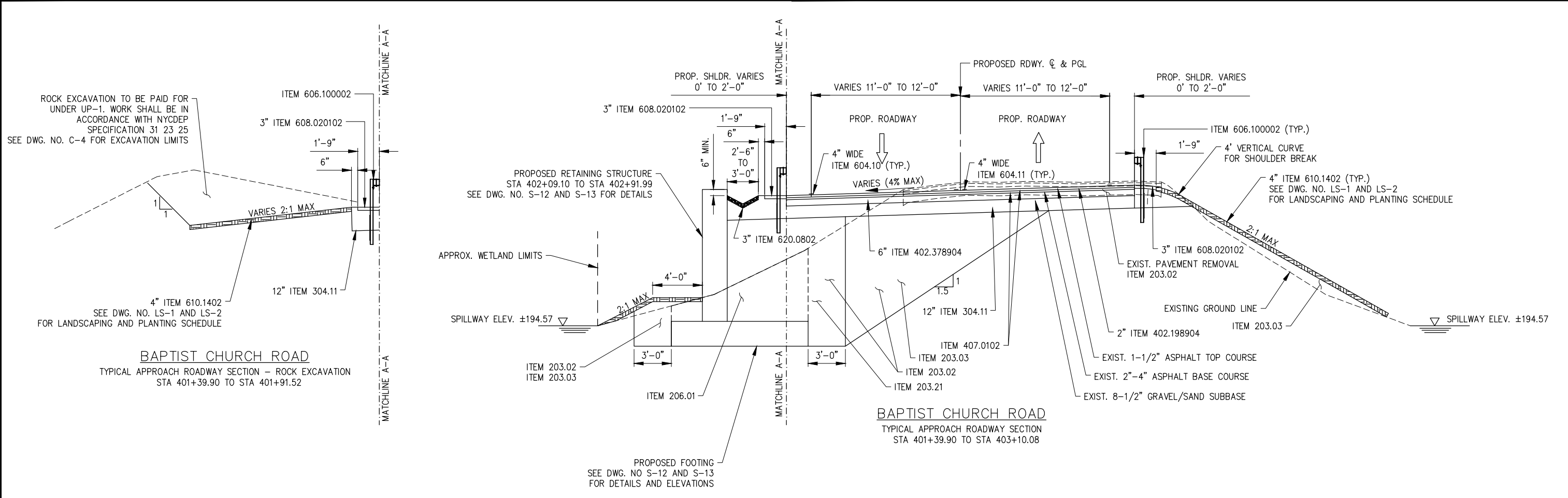
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**CAPITAL PROJECT WM-30**  
**IN WESTCHESTER COUNTY, NEW YORK**  
**CONTRACT CRO-530B**  
 SURVEY & BASELINE TIES

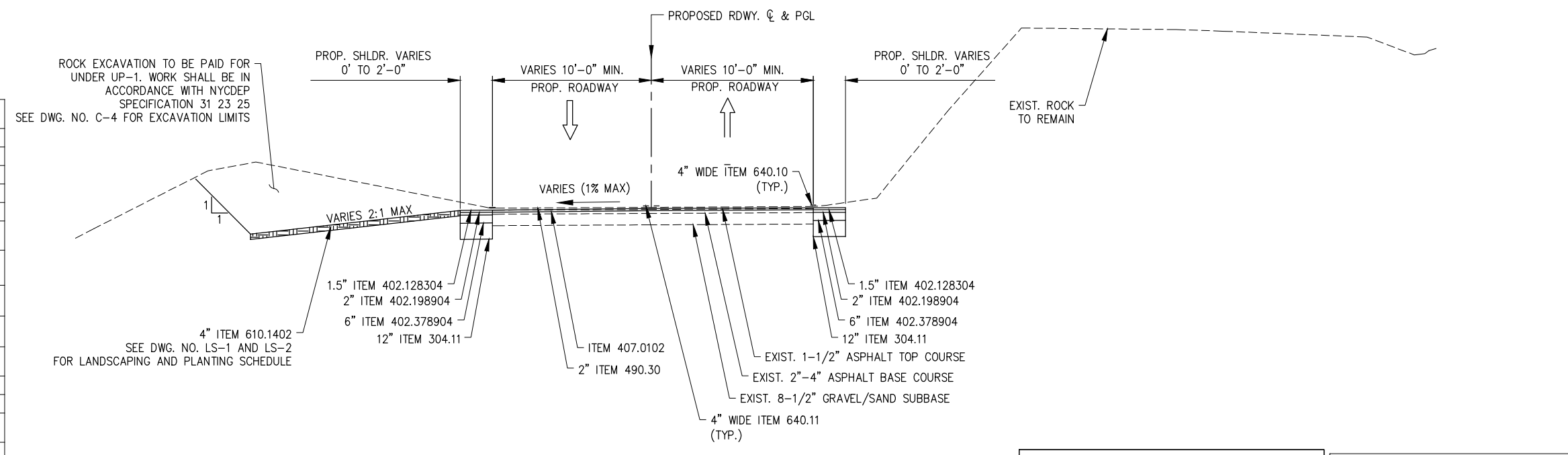
DATE: 04/23/2021  
 SCALE: 1" = 20'-0"  
 SHEET NO:  
 7 OF 46  
 DRAWING NO.  
**201**



Last Saved By & Date: Norevler, Friday, April 23, 2021 and Date Plotted: Tuesday, July 06, 2021 Time: 11:51 AM  
 Paper Size: ANSI A (8.50 x 11.00 inches) Plot Scale: 0.388663 Plot Style Table: (N)\_BDDC\_BW.ctb  
 Drawing Name: C:\Users\norevler\hprod\dm37923\BAPTIST-CROSS-TYPICAL-SECTION.dwg




ITEM	DESCRIPTION	UNIT
203.02	UNCLASSIFIED EXCAVATION	CY
203.03	EMBANKMENT IN PLACE	CY
203.21	SELECT STRUCTURE FILL	CY
206.01	STRUCTURE EXCAVATION	CY
304.11	SUBBASE COURSE TYPE 1	CY
407.0102	DILUTED TACK COAT	GAL
402.128304	12.5 F3 TOP COURSE HMA (80 SERIES COMPACTION)	TON
402.198904	19 F9 BINDER COURSE HMA (80 SERIES COMPACTION)	TON
402.378904	37.5 F9 BASE COURSE HMA (80 SERIES COMPACTION)	TON
490.30	MISCELLANEOUS COLD MILLING OF BITUMINOUS CONCRETE	SY
606.10	BOX BEAM GUIDE RAILING	LF
610.1402	TOP SOIL - ROADSIDE	CY
640.10	WHITE PAINT REFLECTORIZED PAVEMENT STRIPES - 15 MILS	LF
640.11	YELLOW PAINT REFLECTORIZED PAVEMENT STRIPES - 15 MILS	LF



**60% DESIGN SUBMITTAL**  
 SUBMITTAL DATE: 4/23/2021

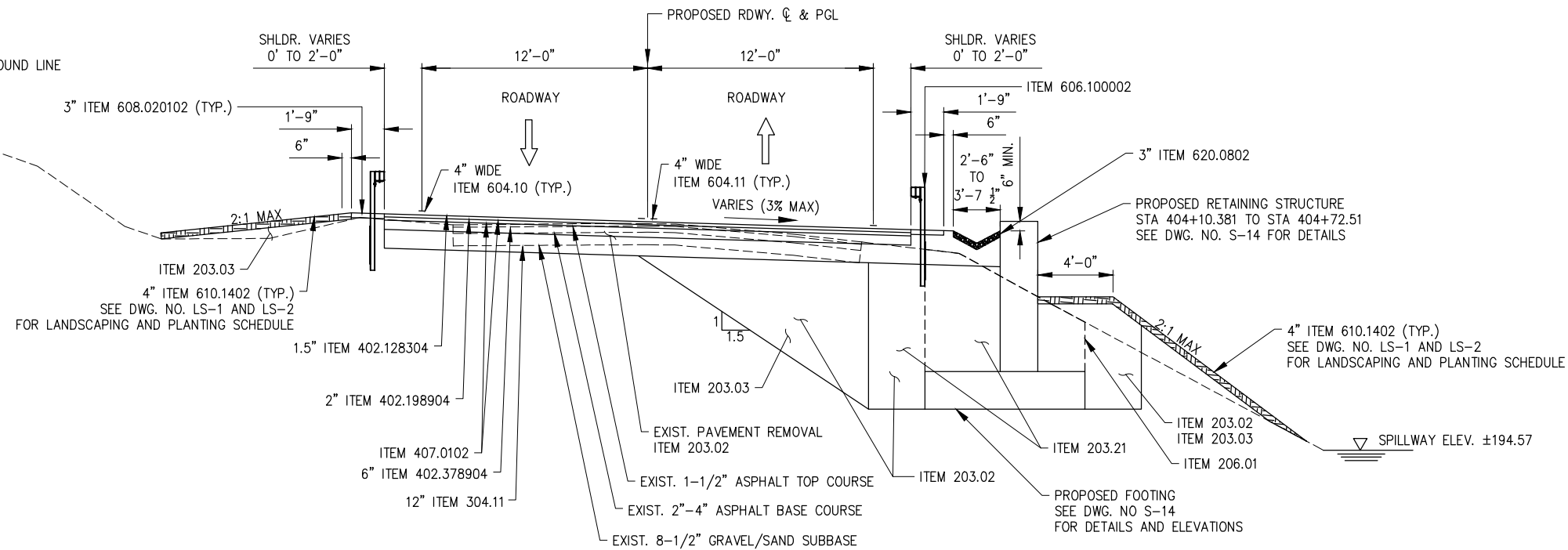
GRAPHIC SCALES  
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	DESIGNED BY: <b>N. CREVER, PE</b>	DRAWN BY: <b>N. CREVER, PE</b>		ACCOUNTABLE MANAGER: JEFFREY A. BUSSE, PE	*WARNING-IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW, SECTION, 7209.2, FOR ANY PERSON, UNLESS (S)HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT IN ANY WAY. IF ALTERED, THE ALTERING PERSON SHALL COMPLY WITH THE REQUIREMENTS OF NEW YORK EDUCATION, LAW, SECTION, 7209.2.*	<b>NEW YORK CITY</b> <b>ENVIRONMENTAL PROTECTION</b> BUREAU OF ENGINEERING DESIGN & CONSTRUCTION 96-05 HORACE HARDING EXPRESSWAY 5th FLOOR CORONA, NEW YORK 11368 www.nyc.gov/dep	<b>CAPITAL PROJECT WM-30</b> <b>IN WESTCHESTER COUNTY, NEW YORK</b> <b>CONTRACT CRO-530B</b>	DATE: 04/23/2021 SCALE: 1"=4' SHEET NO: 8 OF 46
	CHECKED BY: <b>R. ROMAN, PE</b>			PORTFOLIO MANAGER: PAUL COSTA, PE			<b>TYPICAL SECTIONS</b> (SHEET 1 OF 2)	DRAWING NO. <b>242</b>
NO.	DATE	REVISIONS/DESCRIPTION	APPR'D.	SECTION MANAGER:				

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 Drawing Name: C:\Users\norevler\hprod\dms37923\BAPTIST-CROSS-TYPICAL-SECTION\_2.dwg

ITEM	DESCRIPTION	UNIT
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	CY
203.03	EMBANKMENT IN PLACE	CY
203.21	SELECT STRUCTURE FILL	CY
304.11	SUBBASE COURSE TYPE 1	CY
407.0102	DILUTED TACK COAT	GAL
402.128304	12.5 F3 TOP COURSE HMA (80 SERIES COMPACTION)	TON
402.198904	19 F9 BINDER COURSE HMA (80 SERIES COMPACTION)	TON
402.378904	37.5 F9 BASE COURSE HMA (80 SERIES COMPACTION)	TON
490.30	MISCELLANEOUS COLD MILLING OF BITUMINOUS CONCRETE	SY
604.10	WHITE PAINT REFLECTORIZED PAVEMENT STRIPES-15 MILS	LF
604.11	YELLOW PAINT REFLECTORIZED PAVEMENT STRIPES-15 MILS	LF
606.100002	BOX BEAM GUIDE RAILING (SHOP BENT OR SHOP MITERED)	LF
608.020102	HOT MIX ASPHALT (HMA) SIDEWALKS, DRIVEWAYS AND BICYCLE PATHS, AND VEGETATION CONTROL STRIPS	TON
610.1402	TOP SOIL - ROADSIDE	CY
620.0802	BEDDING MATERIAL, TYPE 2	CY




**BAPTIST CHURCH ROAD**  
 TYPICAL MILLING SECTION  
 STA 405+15.13 TO STA 406+22.02

**BAPTIST CHURCH ROAD**  
 TYPICAL APPROACH ROADWAY SECTION  
 STA 403+80.08 TO STA 405+15.13

**60% DESIGN SUBMITTAL**  
 SUBMITTAL DATE: 4/23/2021

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NO.	DATE	REVISIONS/DESCRIPTION	APPR'D.

DESIGNED BY: <b>N. CREVER, PE</b>	DRAWN BY: <b>N. CREVER, PE</b>
CHECKED BY: <b>C. JENNE, PE</b>	 HARDESTY & HANOVER, LLC ENGINEERING 1501 Broadway New York, NY 10036
DESIGN LEAD: <b>O. HUNTER, PE</b>	
SECTION MANAGER:	

ACCOUNTABLE MANAGER <b>JEFFREY A. BUSSE, PE</b>
PORTFOLIO MANAGER <b>PAUL COSTA, PE</b>
EXECUTIVE DIRECTOR <b>SEAN McANDREW, PE</b>

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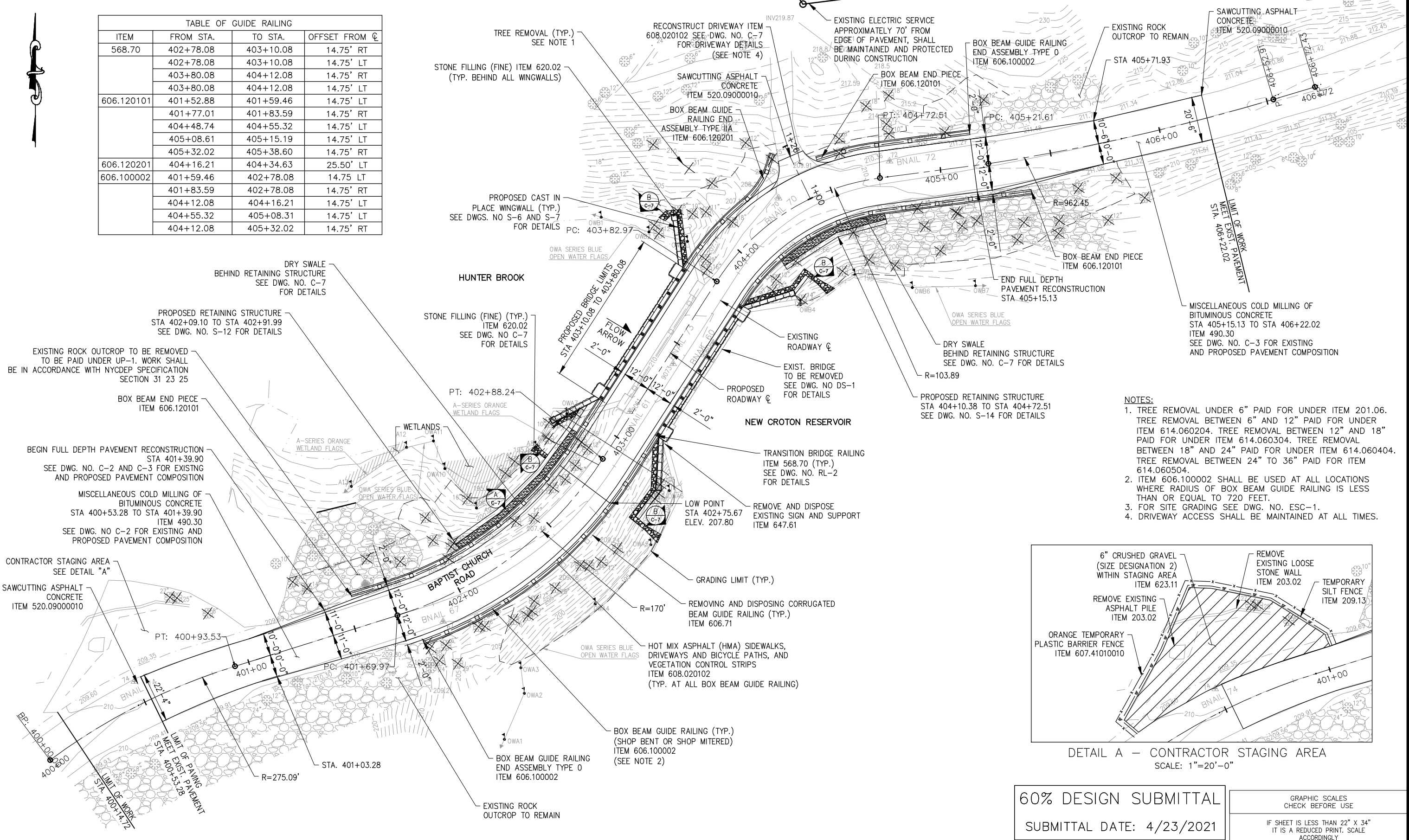
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**CAPITAL PROJECT WM-30**  
**IN WESTCHESTER COUNTY, NEW YORK**  
**CONTRACT CRO-530B**  
  
 TYPICAL SECTIONS  
 (SHEET 2 OF 2)

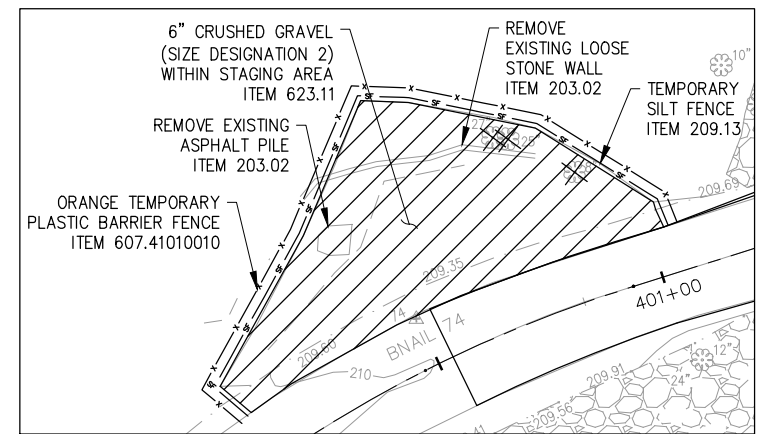
DATE: 04/23/2021
SCALE: 1"=4'
SHEET NO: 9 OF 46
DRAWING NO. 223

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TABLE OF GUIDE RAILING			
ITEM	FROM STA.	TO STA.	OFFSET FROM C
568.70	402+78.08	403+10.08	14.75' RT
	402+78.08	403+10.08	14.75' LT
	403+80.08	404+12.08	14.75' RT
606.120101	403+80.08	404+12.08	14.75' LT
	401+52.88	401+59.46	14.75' LT
	401+77.01	401+83.59	14.75' RT
606.120201	404+48.74	404+55.32	14.75' LT
	405+08.61	405+15.19	14.75' LT
	405+32.02	405+38.60	14.75' RT
606.100002	404+16.21	404+34.63	25.50' LT
606.100002	401+59.46	402+78.08	14.75' LT
	401+83.59	402+78.08	14.75' RT
	404+12.08	404+16.21	14.75' LT
	404+55.32	405+08.31	14.75' LT
	404+12.08	405+32.02	14.75' RT



- NOTES:**
- TREE REMOVAL UNDER 6" PAID FOR UNDER ITEM 201.06. TREE REMOVAL BETWEEN 6" AND 12" PAID FOR UNDER ITEM 614.060204. TREE REMOVAL BETWEEN 12" AND 18" PAID FOR UNDER ITEM 614.060304. TREE REMOVAL BETWEEN 18" AND 24" PAID FOR UNDER ITEM 614.060404. TREE REMOVAL BETWEEN 24" TO 36" PAID FOR ITEM 614.060504.
  - ITEM 606.100002 SHALL BE USED AT ALL LOCATIONS WHERE RADIUS OF BOX BEAM GUIDE RAILING IS LESS THAN OR EQUAL TO 720 FEET.
  - FOR SITE GRADING SEE DWG. NO. ESC-1.
  - DRIVEWAY ACCESS SHALL BE MAINTAINED AT ALL TIMES.



DETAIL A - CONTRACTOR STAGING AREA  
SCALE: 1"=20'-0"

60% DESIGN SUBMITTAL  
SUBMITTAL DATE: 4/23/2021

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 Drawing Name: C:\users\norevier\hprod\dm37923\BAPTIST CHURCH ROAD PLAN.dwg

NO.	DATE	REVISIONS/DESCRIPTION	APPR'D.

DESIGNED BY: <b>N. CREMER, PE</b>	DRAWN BY:
CHECKED BY: <b>C. JENNE, PE</b>	
DESIGN LEAD: <b>O. HUNTER, PE</b>	HARDESTY & HANOVER, LLC ENGINEERING
SECTION MANAGER:	1501 Broadway, New York, NY 10036

ACCOUNTABLE MANAGER  
**JEFFREY A. BUSSE, PE**

PORTFOLIO MANAGER  
**PAUL COSTA, PE**

EXECUTIVE DIRECTOR  
**SEAN McANDREW, PE**

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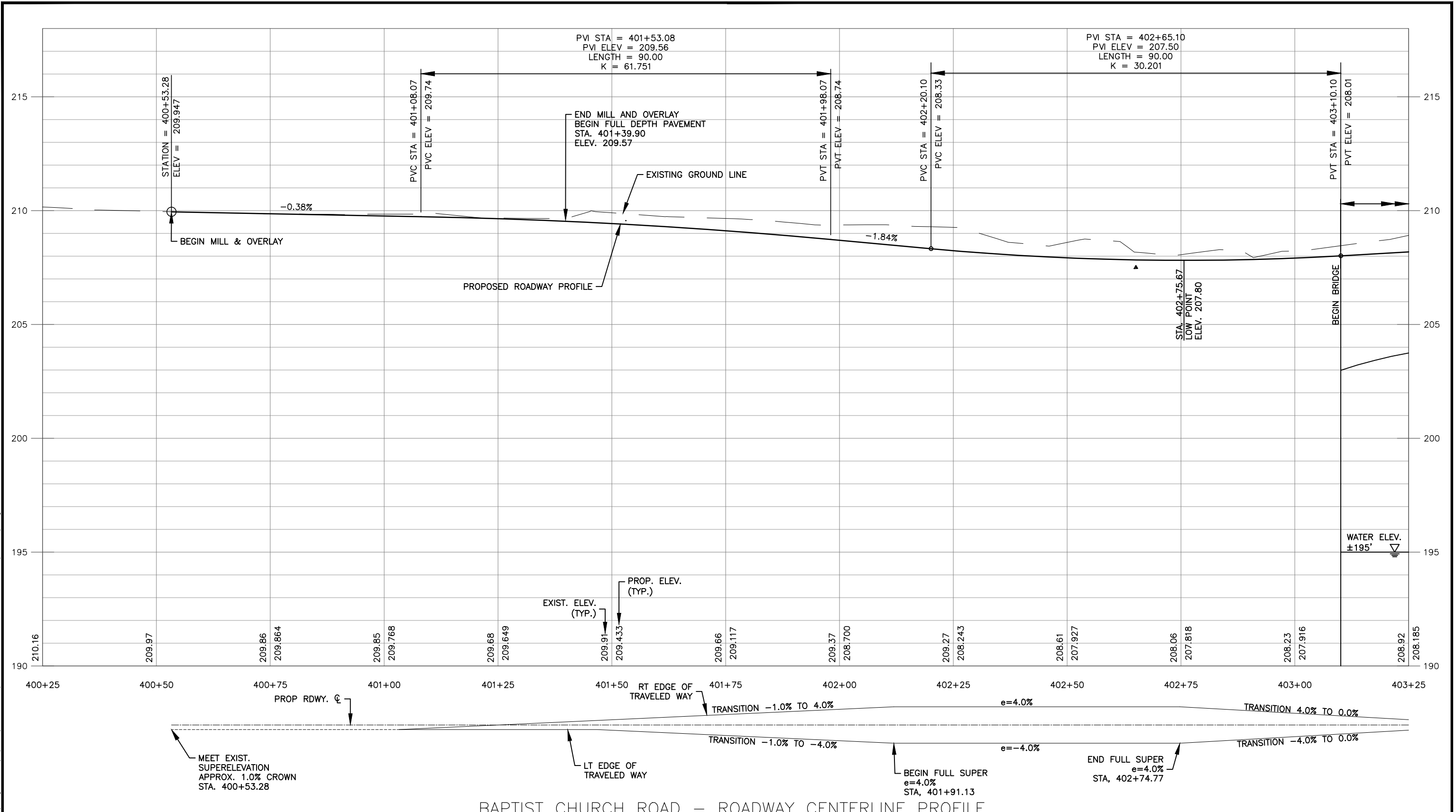
**CAPITAL PROJECT WM-30**  
**IN WESTCHESTER COUNTY, NEW YORK**  
**CONTRACT CRO-530B**

PROPOSED ROADWAY ALIGNMENT  
AND SITE PLAN

DATE: 04/23/2021  
SCALE: 1" = 20'-0"  
SHEET NO. OF 46  
DRAWING NO.  
**234**

All inquiries regarding this drawing(s) or project should be made to NYC Environmental Protection, Bureau of Engineering Design and Construction.

Last Saved By: & Date: Ncrevier, Friday, April 23, 2021, and Date Plotted: Tuesday, June 01, 2021, Time: 11:54 AM  
 Paper Size: ANSI A (8.50 x 11.00 inches) Plot Scale: 0.366863 Plot Style Table: (N) \_BDED\_BW.ctb  
 Drawing Name: & Location: C:\users\cshnyakirova\Myprod\wms37923\BAPTIST CHURCH ROAD \_PROFILE (1 OF 2).dwg



BAPTIST CHURCH ROAD – ROADWAY CENTERLINE PROFILE

SCALE:  
 1" = 20' HORIZONTAL  
 1" = 4' VERTICAL

GRAPHIC SCALES  
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DESIGNED BY:  
 N. CREVIER, PE  
 CHECKED BY:  
 C. JENNE, PE  
 DESIGN LEAD:  
 O. HUNTER, PE  
 SECTION MANAGER:

DRAWN BY:  
 N. CREVIER, PE  
  
 HARDESTY & HANOVER, LLC  
 ENGINEERING  
 1501 Broadway New York, NY 10036

**NYC**  
 Environmental  
 Protection

ACCOUNTABLE MANAGER  
 JEFFREY A. BUSSE, PE  
 PORTFOLIO MANAGER  
 PAUL COSTA, PE  
 EXECUTIVE DIRECTOR  
 SEAN McANDREW, PE

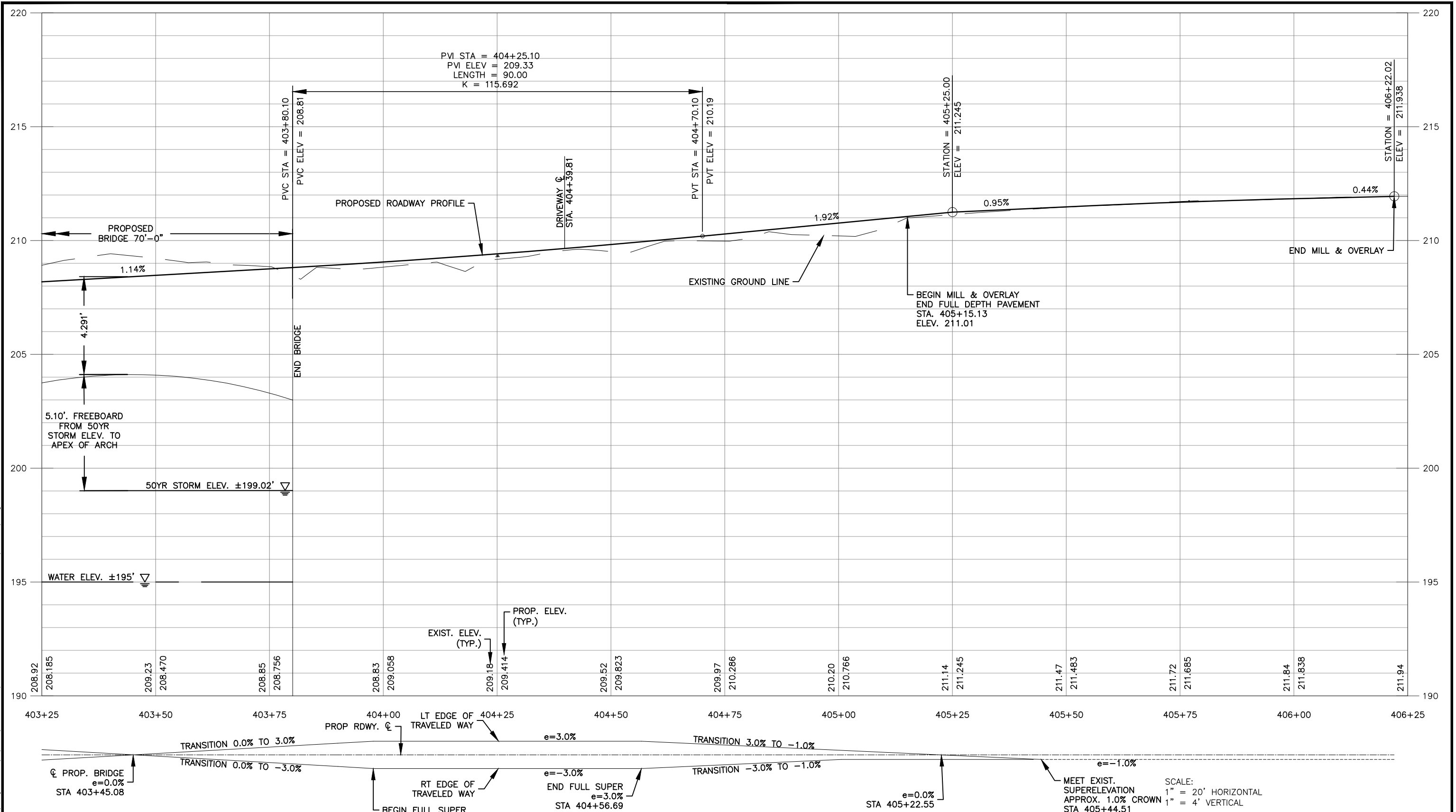
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**ENVIRONMENTAL PROTECTION**  
 BUREAU OF ENGINEERING DESIGN & CONSTRUCTION  
 96-05 HORACE HARDING EXPRESSWAY 5th FLOOR  
 CORONA, NEW YORK 11368  
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CAPITAL PROJECT WM-30  
 IN WESTCHESTER COUNTY, NEW YORK  
 CONTRACT CRO-530B  
 ROADWAY PROFILE - 1

DATE: 04/23/2021  
 SCALE: AS NOTED  
 SHEET NO:  
 11 OF 46  
 DRAWING NO.  
 C245

Last Saved By: & Date: Ncrevier, Friday, April 23, 2021, and Date Plotted: Tuesday, June 01, 2021, Time: 11:56 AM  
 Paper Size: ANSI A (8.50 x 11.00 inches) Plot Scale: 0.386863 Plot Style: (N)\_BDC.ctb  
 Drawing Name: & Location: C:\Users\kshykhkrova\Myprod\kms37923\BAPTIST CHURCH ROAD\_PROFILE (2 OF 2).dwg



BAPTIST CHURCH ROAD – ROADWAY CENTERLINE PROFILE

60% DESIGN SUBMITTAL  
 SUBMITTAL DATE: 4/23/2021

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 N.CREVIEW, PE  
**CHECKED BY:**  
 C. JENNE, PE  
**DESIGN LEAD:**  
 O. HUNTER, PE  
**SECTION MANAGER:**

**DRAWN BY:**  
 N.CREVIEW, PE  
  
 HARDESTY & HANOVER, LLC  
 ENGINEERING  
 1501 Broadway New York, NY 10036



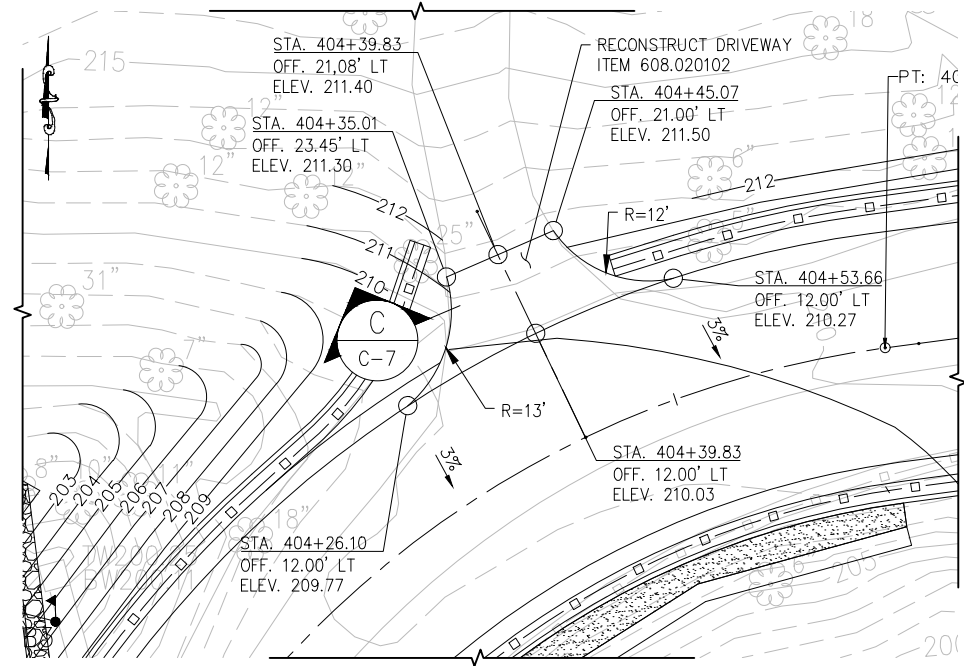
**ACCOUNTABLE MANAGER**  
 JEFFREY A. BUSSE, PE  
**PORTFOLIO MANAGER**  
 PAUL COSTA, PE  
**EXECUTIVE DIRECTOR**  
 SEAN McANDREW, PE

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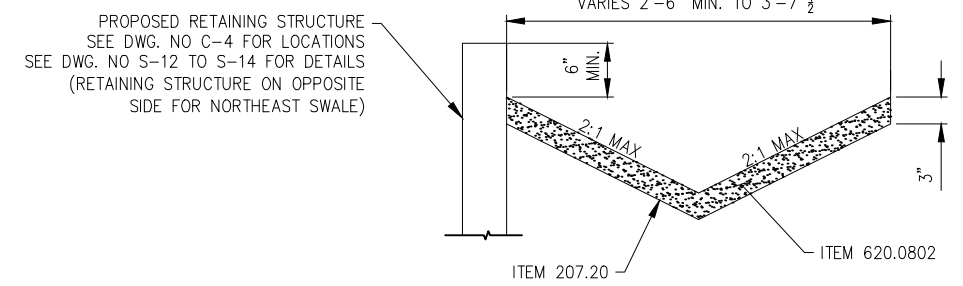
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 BUREAU OF ENGINEERING DESIGN & CONSTRUCTION  
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 CORONA, NEW YORK 11368  
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**CAPITAL PROJECT WM-30**  
**IN WESTCHESTER COUNTY, NEW YORK**  
**CONTRACT CRO-530B**  
 ROADWAY PROFILE-2

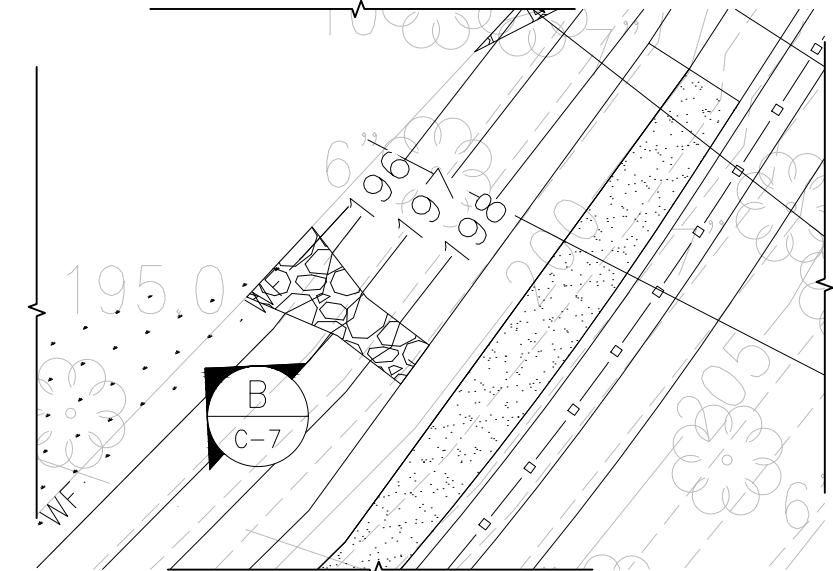
DATE: 04/23/2021  
 SCALE: AS NOTED  
 SHEET NO:  
 12 OF 46  
 DRAWING NO.  
 C256



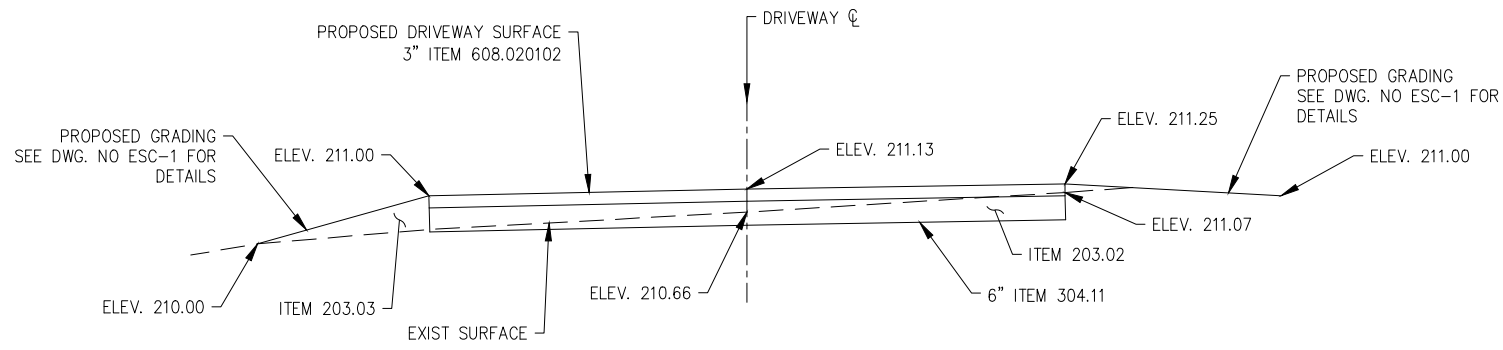
DRIVEWAY PLAN  
SCALE: 1"=10'-0"



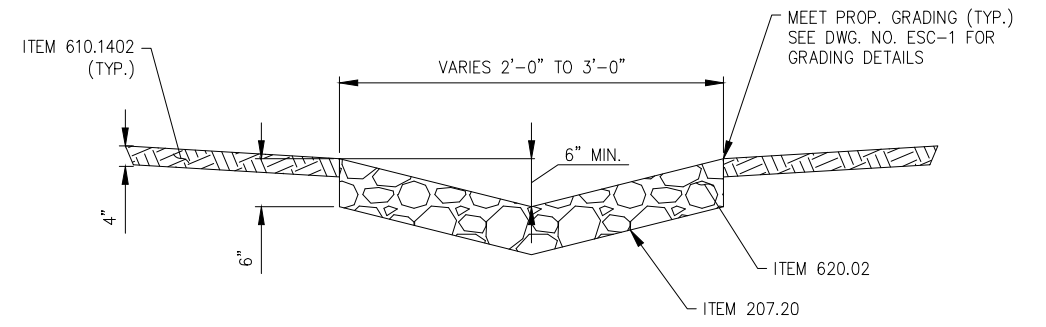
A DRY SWALE DETAIL  
C-4 N.T.S.



STONE OUTFALL - PLAN VIEW  
SCALE: 1"=4'



C DRIVEWAY SECTION  
C-7 N.T.S.



B STONE OUTFALL DETAIL (TYP. BEHIND ALL WINGWALLS AND AT OUTFALLS)  
C-7 N.T.S.

ITEM	DESCRIPTION	UNIT
203.02	UNCLASSIFIED EXCAVATION	CY
203.03	EMBANKMENT IN PLACE	CY
207.20	GEOTEXTILE BEDDING	SY
304.11	SUBBASE COURSE, TYPE 1	CY
608.020102	HOT MIX ASPHALT (HMA) SIDEWALKS, DRIVEWAYS AND BICYCLE PATHS, AND VEGETATION CONTROL STRIPS	TON
610.1402	TOPSOIL - ROADSIDE	CY
620.02	STONE FILLING (FINE)	CY
620.0802	BEDDING MATERIAL - TYPE 2	CY

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SUBMITTAL DATE: 4/23/2021

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 Drawing Name: C:\Users\cshiyaknova\hproad\dms37923\BAPTIST CHURCH ROAD -RDWY DETAIL SHEET.dwg

NO.	DATE	REVISIONS/DESCRIPTION	APPR'D.

DESIGNED BY:  
N.CREVIER, PE  
CHECKED BY:  
E. RECIO, PE  
DESIGN LEAD:  
O. HUNTER, PE  
SECTION MANAGER:

DRAWN BY:  
N.CREVIER, PE  
  
HARDESTY & HANOVER, LLC  
ENGINEERING  
1501 Broadway New York, NY 10036



ACCOUNTABLE MANAGER  
JEFFREY A. BUSSE, PE  
PORTFOLIO MANAGER  
PAUL COSTA, PE  
EXECUTIVE DIRECTOR  
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CORONA, NEW YORK 11368  
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**CAPITAL PROJECT WM-30**  
**IN WESTCHESTER COUNTY, NEW YORK**  
**CONTRACT CRO-530B**  
  
**ROADWAY DETAILS SHEET**

DATE: 04/23/2021  
SCALE: AS NOTED  
SHEET NO:  
13 OF 46  
DRAWING NO.  
267

MAINTENANCE AND PROTECTION OF TRAFFIC NOTES

- ALL MAINTENANCE AND PROTECTION OF TRAFFIC WORK SHALL CONFORM TO THE NEW YORK STATE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, EXCEPT AS MODIFIED BY THE PLANS AND SPECIFICATIONS.
- THE BOTTOM OF TEMPORARY CONSTRUCTION SIGNS SHALL BE A MINIMUM OF 7'-0" ABOVE THE PAVEMENT ON LOCAL ROADS AND 5'-0" ABOVE THE PAVEMENT ON HIGHWAYS AND A MINIMUM OF 2'-0" CLEAR OF THE TRAVEL LANE, AS SHOWN, OR AS ORDERED BY THE RESIDENT ENGINEER.
- THE CONTRACTOR SHALL NOTIFY THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION REGIONAL OFFICE, THE LOCAL POLICE DEPARTMENTS, NYCDEP, TOWN OF YORKTOWN AND THE FIRE DEPARTMENT AT LEAST TWO WEEKS IN ADVANCE OF BEGINNING OF WORK ON A TRAVEL LANE OR SHOULDER. NOTIFICATION SHALL BE IN WRITING AFTER RECEIPT OF CONCURRENCE OF THE RESIDENT ENGINEER.
- THE CONTRACTOR SHALL PROVIDE THE ENGINEER IN WRITING WITH NAMES, ADDRESSES, AND TELEPHONE NUMBERS OF STAFF WHO ARE AUTHORIZED TO SECURE LABOR, MATERIALS AND EQUIPMENT FOR EMERGENCY REPAIRS OUTSIDE NORMAL WORKING HOURS. THE ENGINEER WILL PROVIDE THE SUBMITTED INFORMATION TO NYCDEP, THE NEW YORK STATE POLICE, THE RESIDENT ENGINEER, THE LOCAL FIRE DEPARTMENT AND THE LOCAL POLICE.
- ALL CONSTRUCTION SIGNS SHALL BE COVERED OR REMOVED WHEN THE WORK THEY PERTAIN TO IS NOT IN PROGRESS.
- ALL CONSTRUCTION SIGNS SHALL HAVE AN ORANGE BACKGROUND AND BLACK LETTERS AND BORDERS. ALL SIGNS ARE TO BE REFLECTORIZED IN ACCORDANCE TO WITH SUBSECTION 619-2.02 OF THE NYSDOT STANDARD SPECIFICATIONS.
- NO SIGNS SHALL BE PLACED AT ANY LOCATION WHERE IT IS OBSCURED BY TEMPORARY OR PERMANENT OBJECTS.
- NO NEW DETOUR IS TO BE PLACED IN OPERATION ON MONDAY, FRIDAY, OR ON THE DAY PRECEDING A HOLIDAY UNLESS OTHERWISE APPROVED IN WRITING BY THE RESIDENT ENGINEER AND WITH THE CONCURRENCE OF THE NYCDEP.
- UNDER THE BASIC MAINTENANCE AND PROTECTION OF TRAFFIC ITEM, THE CONTRACTOR WILL BE REQUIRED TO PERFORM MAINTENANCE CLEANING OF THE PAVEMENT WITHIN THE CONTRACT LIMITS WHEN ORDERED BY THE RESIDENT ENGINEER. MAINTENANCE CLEANING SHALL MEAN THE REMOVAL OF DEBRIS FROM ANY SOURCE, WHICH IN THE OPINION OF THE RESIDENT ENGINEER IMPEDES FLOW OF TRAFFIC OR STORM WATER. THIS REQUIREMENT SHALL NOT BE CONSTRUED TO CHANGE THE PROVISIONS OF ARTICLE 619-1.02K SNOW AND ICE CONTROL OF NYSDOT STANDARD SPECIFICATIONS.
- TO ENSURE A SAFE TRAFFIC FLOW AT ALL TIMES. STORAGE OF MATERIALS AND EQUIPMENT (INCLUDING EMPLOYEE CARS) SHALL NOT BE PERMITTED WITHIN THE TRAVELED WAY OF ANY ROADWAY. STORAGE AREAS SHALL BE SEPARATED FROM THE TRAVELED WAY BY A CLEAR SPACE OF 30 FEET MINIMUM WIDTH. BY CONCRETE BARRIER OR PERMANENTLY INSTALLED BRIDGE RAILING.
- THE MAINTENANCE AND PROTECTION OF TRAFFIC SCHEMES SHOWN IN THE PLANS OR PROPOSAL ARE TO PROTECT THE TRAVELING PUBLIC. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT THE WORKERS. THE COST OF ADDITIONAL LABOR, MATERIAL AND EQUIPMENT TO PROTECT THE WORKERS SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 619.01 BASIC WORK ZONE TRAFFIC CONTROL.
- ALL TEMPORARY SIGNS FOR WORK ZONE TRAFFIC CONTROL SHALL BE PAID FOR UNDER ITEM 619.01 BASIC WORK ZONE TRAFFIC CONTROL.
- IN REFERENCE TO THE NYS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES THE FOLLOWING STIPULATIONS SHALL APPLY UNLESS OTHERWISE SPECIFIED BY THE RESIDENT ENGINEER:
  - WHERE SIGNS ARE SHOWN IN BOTH DIAMOND AND RECTANGULAR SHAPES. ONLY DIAMOND SHAPES WILL BE PERMITTED.
  - WHERE SIGNS ARE SHOWN IN ALTERNATE SIZES. THE LARGEST SIZE MUST BE USED UNLESS OTHERWISE SPECIFIED BY THE RESIDENT ENGINEER, OR SHOWN IN THE PLANS.
- THE TRAVEL LANE SHALL BE SWEEPED CLEAN BY THE CONTRACTOR BEFORE THE LANE IS RE-OPENED TO TRAFFIC.
- SIGNS ARE TO BE DISPLAYED ONLY DURING THE TIME THAT THE TEXT APPLIES. ALL APPROPRIATE SIGNS MUST BE COMPLETELY IN PLACE AND ON DISPLAY JUST PRIOR TO COMMENCEMENT OF A PARTICULAR STAGE OF WORK.
- ALL MATERIAL AND EQUIPMENT NOT IN USE INCLUDING EMPLOYEES CARS SHALL NOT BE STORED OR PARKED IN THE PROJECT AREA EXCEPT WITHIN DESIGNATED STAGING AREA OR SHALL BE POSITIONED APPROPRIATELY IN ADVANCE OF THE WORK.
- THE CONTRACTOR SHALL PROVIDE FLAGGERS WITH APPROPRIATE SIGNING WHEREVER OPERATIONS INTERFERE WITH TRAFFIC. EXAMPLES INCLUDE BUT ARE NOT LIMITED TO. DELIVERY/REMOVAL OF MATERIALS LIFTING OPERATIONS AND OTHER ACTIVITIES AS ORDERED BY THE RESIDENT ENGINEER. COST TO BE INCLUDED UNDER ITEM 619.01.
- THE SOLE DUTY OF THE FLAGGER SHALL BE TO DIRECT TRAFFIC PROPERLY AT ALL TIMES. THEY SHALL NOT BE USED TO MOVE TEMPORARY SIGNS OR ASSIST IN OTHER WORK AND SHALL BE POSITIONED APPROPRIATELY IN ADVANCE OF THE WORK.
- THE CONTRACTOR SHALL RESTORE ALL PAVEMENT, CONCRETE AND GRADED AREA DUE TO THE INSTALLATION AND REMOVAL OF TRAFFIC CONTROL DEVICES SUCH AS CONCRETE BARRIERS, ETC.. THE AFFECTED AREA SHALL BE RESTORED TO THEIR ORIGINAL OR UNDISTURBED STATE WITH MATERIALS MEETING THE SPECIFICATIONS AND APPROVAL OF THE RESIDENT ENGINEER. NO SEPARATE PAYMENT FOR THIS WORK SHALL BE ALLOWED.



CONSTRUCTION SEQUENCE – BAPTIST CHURCH ROAD BRIDGE

- ALL TRAFFIC EXCEPT LOCAL TRAFFIC WILL BE DETOURED FROM BAPTIST CHURCH RD ONTO HUNTER BROOK RD AND CROTON AVE. SEE PLAN AND DETOUR SIGNS ON DWGS NOS. MT-2 & MT-3.
- THE CONTRACTOR SHALL INSTALL ALL DETOUR SIGNS AND ROAD CLOSURE BARRICADES AS SHOWN ON THE TRAFFIC CONTROL PLAN AND A.O.B.E.. DETOUR SIGNS SHALL BE IN PLACE PRIOR TO CLOSING THE ROAD AND COVERED UNTIL JUST PRIOR TO ROAD CLOSURE.
- AFTER THE IMPLEMENTATION OF THE APPROVED WORK ZONE TRAFFIC CONTROL PLAN. IT MAY BE NECESSARY FOR THE RESIDENT ENGINEER TO ALTER THIS PLAN AS TRAFFIC CONDITIONS WARRANT. ALTERATIONS SHALL INCLUDE BUT NOT BE LIMITED TO THE ADDITION, REPLACEMENT, OR MODIFICATION OF SIGNS AND DELINEATION DEVICES. PAYMENT SHALL BE INCLUDED IN THE PRICE BID FOR CONSTRUCTION SIGNS AND BASIC MAINTENANCE AND PROTECTION OF TRAFFIC.
- TYPE III CONSTRUCTION BARRICADES AT THE PROJECT LOCATION SHALL BE PLACED CONTINUOUSLY ACROSS THE ENTIRE ROADWAY. EXTENDING MINIMUM OF TWO FEET BEYOND THE EDGE OF THE SHOULDER.
- PRIOR TO OPENING THE ROADWAY TO TRAFFIC ALL GUIDE RAILS SHALL BE IN PLACE AS SHOWN ON THE CONSTRUCTION PLAN.
- IMMEDIATELY AFTER ROAD IS OPENED REMOVE ALL DETOUR SIGNS.
- DURING THE RECONSTRUCTION, THE BRIDGE WILL BE CLOSED TO PEDESTRIANS FOR A PERIOD OF SIX (6) TO EIGHT (8) MONTHS.
- THE CONTRACTOR SHALL MAINTAIN ACCESS TO THE EXISTING PRIVATE DRIVEWAY ON THE NORTHWEST SIDE OF THE PROJECT AT ALL TIMES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE CONSTRUCTION MEANS AND METHODS TO FACILITATE ACCESS. A CRANE PLACEMENT PLAN SHALL BE SUBMITTED TO THE RESIDENT ENGINEER FOR APPROVAL.

- THE CONTRACTOR WILL BE REQUIRED TO REPAIR OR REPLACE ANY MAINTENANCE OF TRAFFIC COMPONENT, CALLED FOR IN THE PLANS, WHICH IS DAMAGED DURING THE LIFE OF THE CONTRACT AT NO ADDITIONAL COST TO THE CITY.
- ALL WORK ON THE MAINTENANCE OF TRAFFIC DRAWING WHICH HAS NOT BEEN GIVEN A SPECIFIC ITEM NUMBER SHALL BE PAID UNDER ITEM 619.01 BASIC WORK ZONE TRAFFIC CONTROL.
- ADDITIONAL ACCESS FOR THE CONTRACTOR THROUGH THE LINE OF TEMPORARY CONCRETE BARRIER SHALL BE SUBMITTED TO THE RESIDENT ENGINEER FOR APPROVAL.
- DETOUR ROUTE IMPLEMENTATION  
THE CONTRACTOR SHALL PLAN HIS OPERATIONS TO MINIMIZE THE DURATION THAT THE BRIDGE IN THIS CONTRACT IS CLOSED TO TRAFFIC.  
THE CONTRACTOR SHALL SUBMIT A BAR CHART OF THE INTENDED CONSTRUCTION SEQUENCE TO THE RESIDENT ENGINEER FOR APPROVAL.
- THE TRAFFIC MAINTENANCE SCHEMES SHOWN IN FIGURE 302-4 OF SUBCHAPTER H OF THE NEW YORK STATE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES DESCRIBE THE RECOMMENDED METHOD AND CONTROL DEVICES NECESSARY. THE RESIDENT ENGINEER MAY ORDER ADDITIONAL DEVICES AND/OR METHODS TO MEET FIELD CONDITIONS
- WORK ZONES SHOULD BE LIMITED TO ONE SIDE OF THE TRAVELED WAY AT A TIME, UNLESS APPROVED BY THE RESIDENT ENGINEER. WORK ZONES ON OPPOSITE SIDES OF THE ROAD SHALL NOT OVERLAP. WORK ZONE IS DEFINED AS THAT AREA IN WHICH TRAFFIC IS RESTRICTED BECAUSE OF CONSTRUCTION ACTIVITIES, OR THAT AREA WHICH INVOLVES A DROPOFF NEXT TO THE PAVEMENT.
- CONSTRUCTION EQUIPMENT SHOULD BE REMOVED FROM THE 30 FEET CLEAR ROADSIDE AREA DURING NON-WORKING HOURS.
- NO MATERIAL IS TO BE PLACED ON THE SHOULDER. OR WITHIN 30 FEET FROM THE EDGE OF PAVEMENT. EXCEPT THAT WHICH IS TO BE PLACED THAT DAY.
- SAFE AND ADEQUATE ACCESS TO EXISTING DRIVEWAYS SHALL BE PLACED THAT DAY.
- FLASHING WARNING LIGHTS SHALL BE MOUNTED ON CONSTRUCTION SIGNS AS SHOWN. LIGHTS SHALL BE LOCATED ADJACENT TO THE SIGN PANEL AND AFFIXED TO THE SIGN SUCH THAT THE LIGHT WILL NOT SEPARATE FROM THE SIGN ON IMPACT. SEPARATELY MOUNTED POWER PACK SHALL BE TETHERED TO THE SIGN TO PREVENT SEPARATION FROM THE SIGN UPON IMPACT.
- ALL FLASHING WARNING LIGHTS SHALL BE TYPE B, HIGH INTENSITY, CONFORMING TO SECTION 294.3 OF THE NYS M.U.T.C.D. AND SECTION CONFORMING TO SECTION 619 OF THE NYSDOT STANDARD SPECIFICATIONS. THE COST OF FURNISHING FLASHING WARNING LIGHTS ON INDIVIDUAL SIGNS IS TO BE INCLUDED UNDER ITEM 619.01. CONSTRUCTION SIGNS.
- THE SIGN LOCATIONS SHOWN ARE APPROXIMATE. THEIR FINAL FIELD LOCATION SHALL BE IN ACCORDANCE WITH NYS M.U.T.C.D.. A.O.B.E.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSURING THAT ALL SIGNS, DRUMS, CONES, BARRICADES, AND RELATED DEVICES REMAIN IN PLACE AND IN GOOD CONDITION. THE SOLE JUDGE OF THE CONTRACTOR'S EFFORTS IN REGARDS TO THE PROTECTION OF TRAFFIC AND PERSONNEL SHALL BE THE ENGINEER.
- THE SIGNING SHOWN ON THE FOLLOWING DRAWINGS IS THE MINIMUM REQUIRED AND SHALL BE PAID UNDER ITEM 619.02 THE SOLE JUDGE OF THE CONTRACTOR'S ADDITIONAL SIGNS MAY BE REQUIRED A.O.B.E. NO ADDITIONAL PAYMENT WILL BE MADE FOR ADDITIONAL SIGNS SO ORDERED.
- A CERTIFIED TRAFFIC WORK ZONE SUPERVISOR AND CERTIFIED FLAGGERS SHALL BE PROVIDED BY THE CONTRACTOR. THE TRAFFIC WORK ZONE SUPERVISOR AND FLAGGERS MUST BE CERTIFIED AND MUST BE TRAINED AND QUALIFIED AS PER THE SECTION 20. WORK ZONE TRAFFIC CONTROL, OF THE NYCDEP BEDC STANDARDS.

60% DESIGN SUBMITTAL  
SUBMITTAL DATE: 4/23/2021

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DESIGNED BY: M. BAHADA	DRAWN BY: M. BAHADA		ACCOUNTABLE MANAGER JEFFREY A. BUSSE, PE	*WARNING--IT IS A VIOLATION, OF THE NEW YORK STATE EDUCATION LAW, SECTION, 7209.2, FOR ANY PERSON, UNLESS (S)HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT IN ANY WAY. IF ALTERED, THE ALTERING PERSON SHALL COMPLY WITH THE REQUIREMENTS OF NEW YORK EDUCATION, LAW, SECTION, 7209.2.*	<b>NEW YORK CITY</b> <b>ENVIRONMENTAL PROTECTION</b> BUREAU OF ENGINEERING DESIGN & CONSTRUCTION 96-05 HORACE HARDING EXPRESSWAY 5th FLOOR CORONA, NEW YORK 11368 www.nyc.gov/dep	<b>CAPITAL PROJECT WM-30</b> IN WESTCHESTER COUNTY, NEW YORK <b>CONTRACT CRO-530B</b>  WORK ZONE TRAFFIC CONTROL PLAN GENERAL NOTES	DATE: 04/23/2021	
CHECKED BY: J. MILLER			PORTFOLIO MANAGER PAUL COSTA, PE				SCALE: N.T.S.	
DESIGN LEAD: M. BAHADA	SECTION MANAGER:		EXECUTIVE DIRECTOR SEAN McANDREW, PE				SHEET NO: 14 OF 46	
NO.	DATE	REVISIONS/DESCRIPTION	APPR'D.					DRAWING NO. M27-1





TEMPORARY SIGN DATA

ITEM NO.	TEXT NO.	TEXT	LETTER		SIZE (W X H)	M.U.T.C.D.	COLOR		TYPE OF MOUNTING
			SIZE	TYPE			BACKG-ROUND	CHARAC-TERS	
619.01	①	BRIDGE CLOSED ON BAPTIST CHURCH RD. WEST OF HUNTER BR. RD.	6' 5' 4'	D	60 X 30	CUSTDM	DRANGE	BLACK	GR. MTD.
619.01	②		8' 8'	D	36 X 36	R11 - 2B	WHITE	BLACK	GR. MTD.
619.01	③		36" 36"	D	36 X 36	W20 - 3	DRANGE	BLACK	GR. MTD.
619.01	④		36" 36"	D	36 X 36	W20 - 3	DRANGE	BLACK	GR. MTD.
619.01	⑤		36" 36"	D	36 X 36	W20 - 3	DRANGE	BLACK	GR. MTD.
619.01	⑥		4' 5'	D	68 X 8 30 X 24	CUST. M4 - 9L	DRANGE	BLACK	GR. MTD.
619.01	⑦		4' 5'	D	68 X 8 30 X 24	CUST. M4 - 9A	DRANGE	BLACK	GR. MTD.
619.01	⑧		4' 5'	D	68 X 8 30 X 24	CUST. M4 - 9R	DRANGE	BLACK	GR. MTD.
619.01	⑨		4' 5'	D	68 X 8 30 X 24	CUST. M4-8A	DRANGE	BLACK	GR. MTD.
619.01	⑩		6'	D	48 X 18	M4 - 10R	DRANGE	BLACK	GR. MTD.
619.01	⑪		6'	D	48 X 18	M4 - 10L	DRANGE	BLACK	GR. MTD.
619.01	⑫			SYMBOL	30' X 30'	R3 - 2	WHITE	BLACK & RED	GR. MTD.
619.01	⑬			SYMBOL	30' X 30'	R3-1	WHITE	BLACK & RED	GR. MTD.

NOTES:

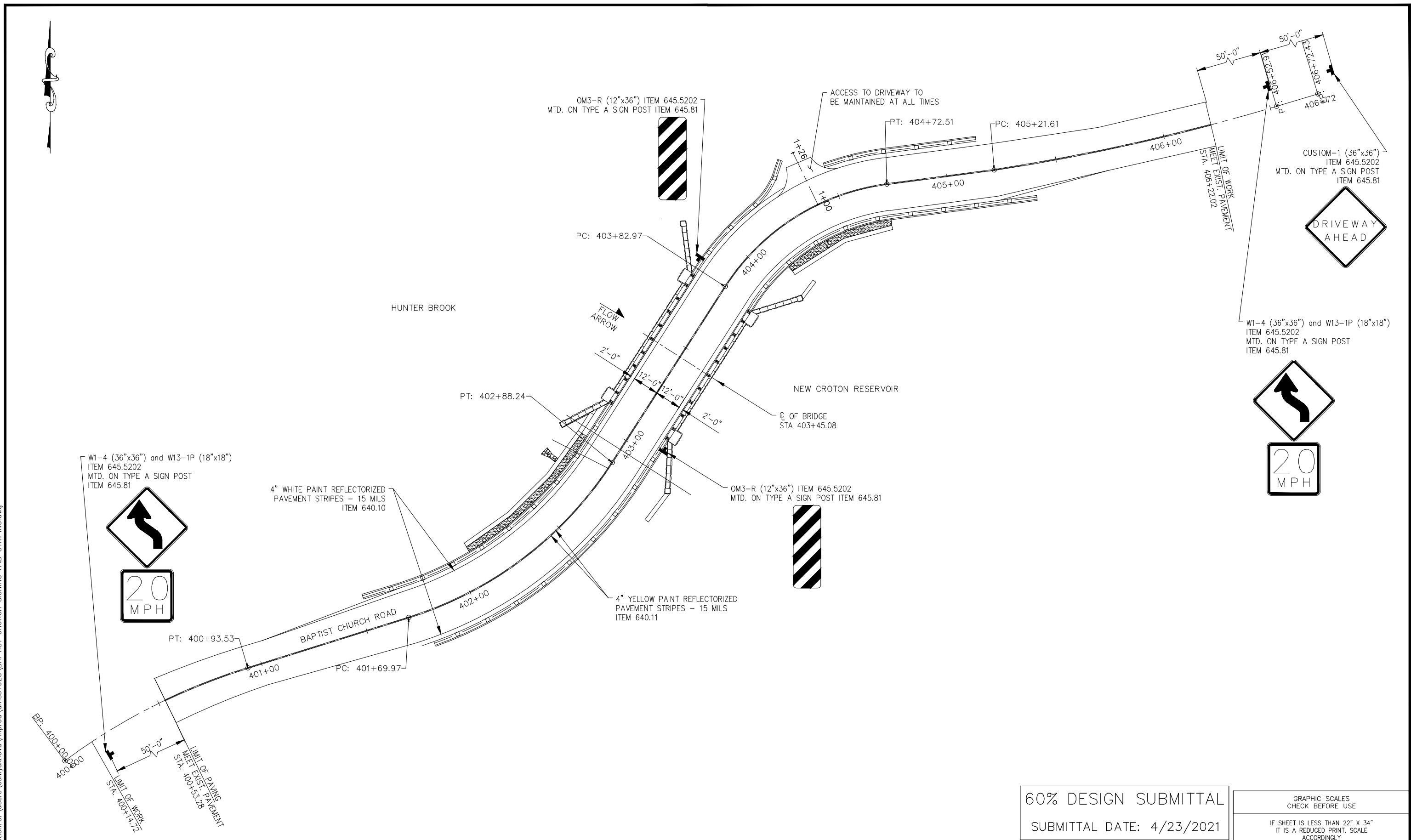
1. SEE DRAWING MT-1 FOR WORK ZONE TRAFFIC CONTROL NOTES.

60% DESIGN SUBMITTAL  
SUBMITTAL DATE: 4/23/2021

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DESIGNED BY: M. BAHADA	DRAWN BY: M. BAHADA	 505 EIGHTH AVENUE NEW YORK, N.Y. 10018 TEL. (212) 967-6588	 ACCOUNTABLE MANAGER JEFFREY A. BUSSE, PE PORTFOLIO MANAGER PAUL COSTA, PE EXECUTIVE DIRECTOR SEAN McANDREW, PE	*WARNING-IT IS A VIOLATION, OF THE NEW YORK STATE EDUCATION LAW, SECTION, 7209.2, FOR ANY PERSON, UNLESS (S)HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT IN ANY WAY. IF ALTERED, THE ALTERING PERSON SHALL COMPLY WITH THE REQUIREMENTS OF NEW YORK EDUCATION, LAW, SECTION, 7209.2.*	NEW YORK CITY <b>ENVIRONMENTAL PROTECTION</b> BUREAU OF ENGINEERING DESIGN & CONSTRUCTION 96-05 HORACE HARDING EXPRESSWAY 5th FLOOR CORONA, NEW YORK 11368 www.nyc.gov/dep	CAPITAL PROJECT WM-30 IN WESTCHESTER COUNTY, NEW YORK CONTRACT CRO-530B WORK ZONE TRAFFIC CONTROL PLAN SIGN DATA TABLE	DATE: 04/23/2021
CHECKED BY: J. MILLER							SCALE: N.T.S.
DESIGN LEAD: M. BAHADA							SHEET NO: 16 OF 46
SECTION MANAGER:							DRAWING NO. M29-3
NO.	DATE	REVISIONS/DESCRIPTION	APPR'D.				

Last Saved By & Date: Ncrevier, Friday, April 23, 2021 and Date Plotted: Tuesday, June 01, 2021 Time: 12:00 PM  
 Paper Size: ANSI A (8.50 x 11.00 Inches) Plot Scale: 0.386863 Plot Style Table: (N)\_BEDC\_BW.ctb  
 Drawing Name: & Location: C:\users\cshiyakhova\hpro\dm\37923\BAPTIST CHURCH SIGNING AND STRIPING.dwg



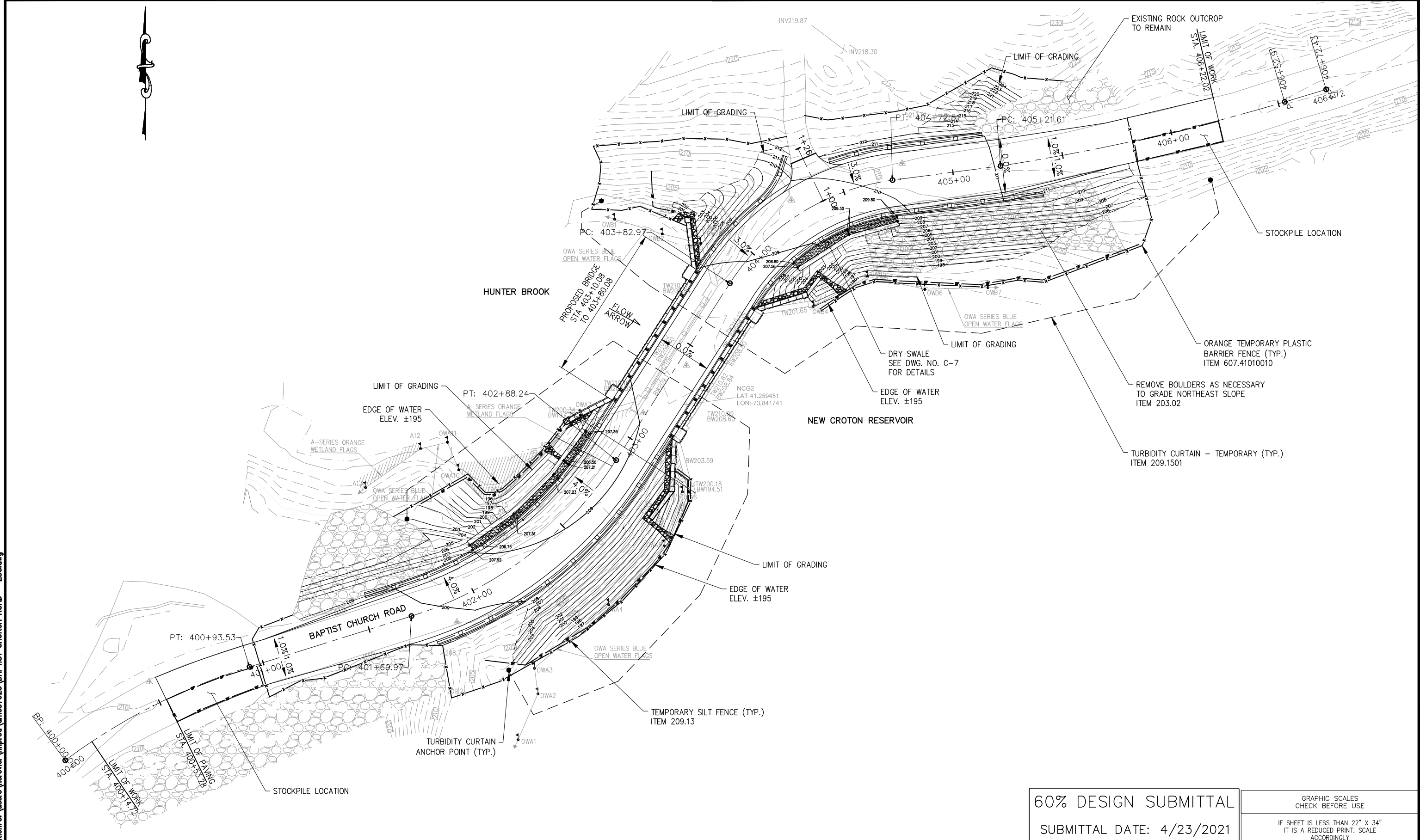
60% DESIGN SUBMITTAL  
 SUBMITTAL DATE: 4/23/2021

GRAPHIC SCALES  
 CHECK BEFORE USE  
 IF SHEET IS LESS THAN 22" X 34"  
 IT IS A REDUCED PRINT. SCALE  
 ACCORDINGLY

DESIGNED BY: N. CREVIER, PE		DRAWN BY:			ACCOUNTABLE MANAGER JEFFREY A. BUSSE, PE	<small>*WARNING—IT IS A VIOLATION, OF THE NEW YORK STATE EDUCATION LAW, SECTION, 7209.2, FOR ANY PERSON, UNLESS (S)HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT IN ANY WAY. IF ALTERED, THE ALTERING PERSON SHALL COMPLY WITH THE REQUIREMENTS OF NEW YORK EDUCATION, LAW, SECTION, 7209.2.*</small>	<b>NEW YORK CITY</b> <b>ENVIRONMENTAL PROTECTION</b> BUREAU OF ENGINEERING DESIGN & CONSTRUCTION 96-05 HORACE HARDING EXPRESSWAY 5th FLOOR CORONA, NEW YORK 11368 www.nyc.gov/dep	<b>CAPITAL PROJECT WM-30</b> <b>IN WESTCHESTER COUNTY, NEW YORK</b> <b>CONTRACT CRO-530B</b>	DATE: 04/23/2021
CHECKED BY: R. ROMAN, PE					PORTFOLIO MANAGER PAUL COSTA, PE				SCALE: 1" = 20'-0"
DESIGN LEAD: O. HUNTER, PE		HARDESTY & HANOVER, LLC ENGINEERING 1501 Broadway New York, NY 10036		EXECUTIVE DIRECTOR SEAN McANDREW, PE	SHEET NO: 17 OF 46	PROPOSED SIGNING AND STRIPING PLAN	DRAWING NO. 30N-1	SECTION MANAGER:	NO. DATE REVISIONS/DESCRIPTION APPR'D.

All inquiries regarding this drawing(s) or project should be made to NYC Environmental Protection, Bureau of Engineering Design and Construction.

Last Saved By & Date: Norevier, Tuesday, July 06, 2021 and Date Plotted: Tuesday, July 06, 2021 Time: 10:11 AM  
 Paper Size: ANSI A (8.50 x 11.00 Inches) Plot Scale: 0.388663 Plot Style Table: (N)\_BDDC\_BW.ctb  
 Drawing Name: C:\users\norevier\hprod\dms37923\BAPTIST CHURCH ROAD - ESC.dwg



**60% DESIGN SUBMITTAL**  
 SUBMITTAL DATE: 4/23/2021

GRAPHIC SCALES  
 CHECK BEFORE USE  
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 ACCORDINGLY

NO.	DATE	REVISIONS/DESCRIPTION	APPR'D.

DESIGNED BY:  
**N. CREVER, PE**  
 CHECKED BY:  
**C. JENNE, PE**  
 DESIGN LEAD:  
**R.ROMAN, PE**  
 SECTION MANAGER:

DRAWN BY:  
  
**HARDESTY & HANOVER, LLC**  
**ENGINEERING**  
 1501 Broadway New York, NY 10036

  
**NYC**  
**Environmental Protection**

ACCOUNTABLE MANAGER  
 JEFFREY A. BUSSE, PE  
 PORTFOLIO MANAGER  
 PAUL COSTA, PE  
 EXECUTIVE DIRECTOR  
 SEAN McANDREW, PE

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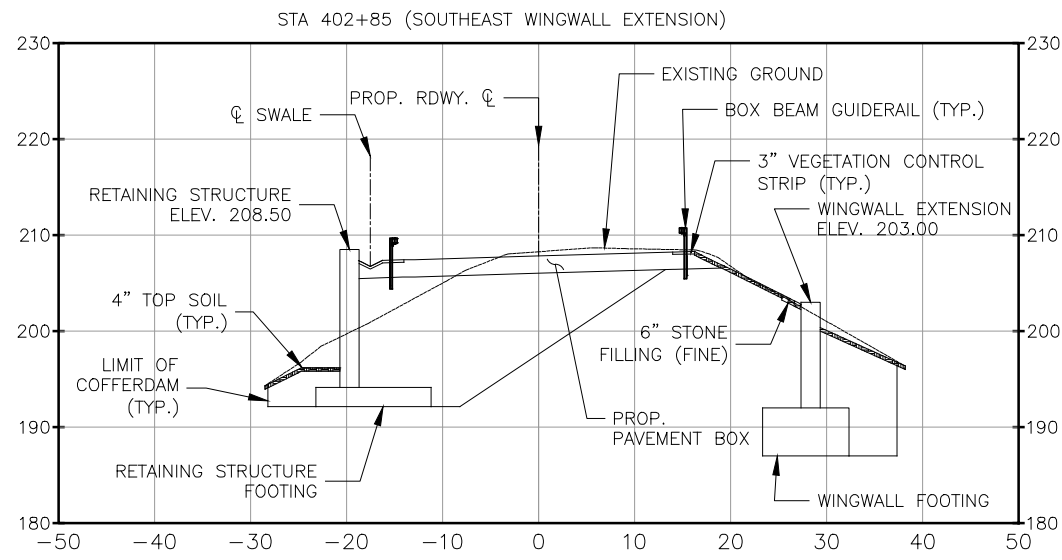
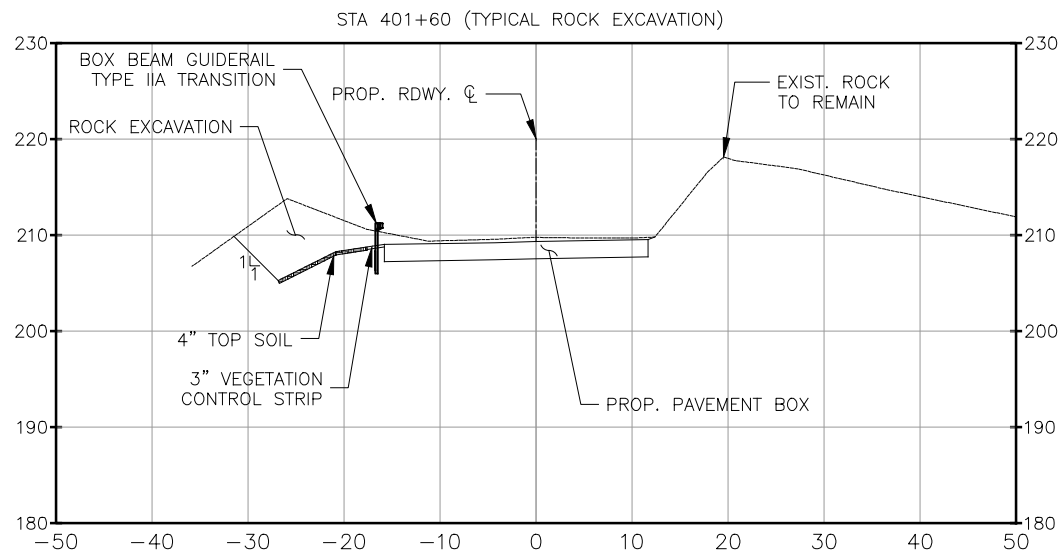
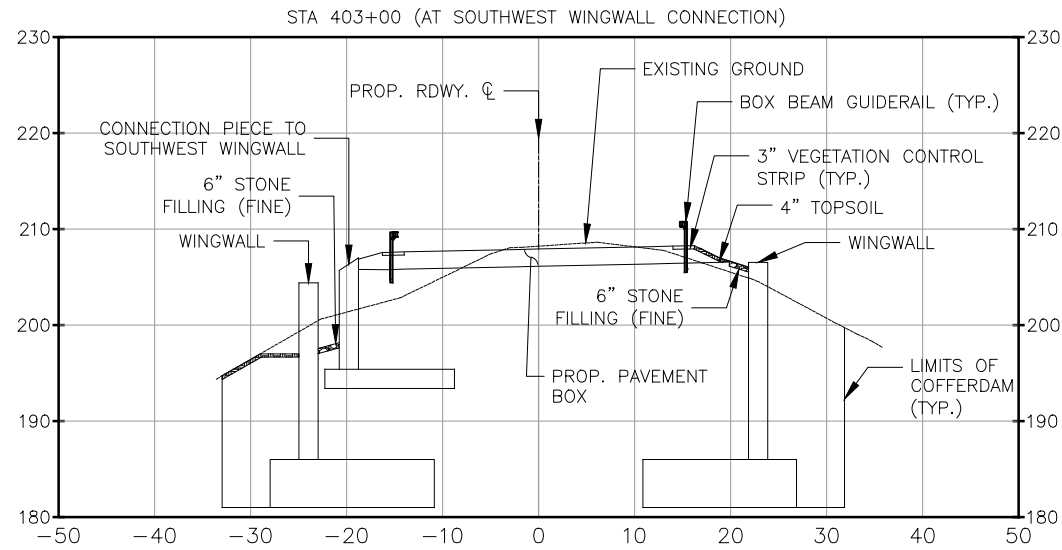
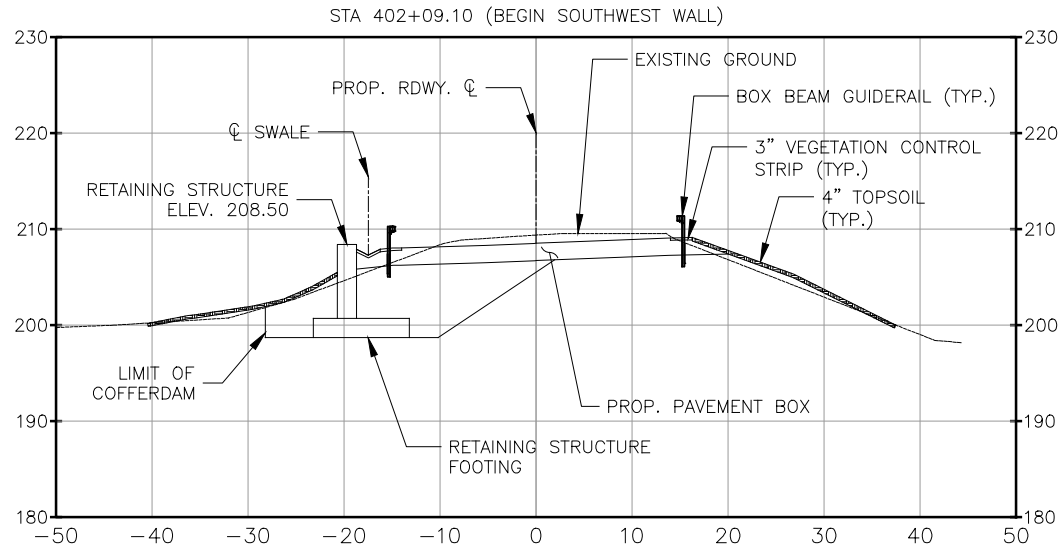
**NEW YORK CITY**  
**ENVIRONMENTAL PROTECTION**  
**BUREAU OF ENGINEERING DESIGN & CONSTRUCTION**  
 96-05 HORACE HARDING EXPRESSWAY 5th FLOOR  
 CORONA, NEW YORK 11368  
 www.nyc.gov/dep

**CAPITAL PROJECT WM-30**  
**IN WESTCHESTER COUNTY, NEW YORK**  
**CONTRACT CRO-530B**  
  
**BAPTIST CHURCH ROAD**  
**GRADING AND EROSION CONTROL PLAN**

DATE: 04/23/2021  
 SCALE: 1" = 20'-0"  
 SHEET NO:  
 18 OF 46  
 DRAWING NO.  
**B3C-1**

All inquiries regarding this drawing(s) or project should be made to NYC Environmental Protection, Bureau of Engineering Design and Construction.

- NOTES:  
 1. FOR PAVEMENT COMPOSITION AND EXCAVATION DETAILS SEE DWG. NO. C-2  
 2. FOR RETAINING STRUCTURE DETAILS SEE DWG. NO. S-12 AND S-13  
 3. FOR WINGWALL AND EXTENSION DETAILS SEE DWG. NO. S-6 AND S-8  
 4. FOR GRADING SEE DWG. NO. ESC-1



Last Saved By & Date: Ncrevier, Wednesday, May 05, 2021 and Date Plotted: Tuesday, July 06, 2021 Time: 9:10 AM  
 Paper Size: ANSI A (8.50 x 11.00 Inches) Plot Scale: 0.388663 Plot Style Table: (N)\_BEDC\_BW.ctb  
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60% DESIGN SUBMITTAL  
 SUBMITTAL DATE: 4/23/2021

GRAPHIC SCALES  
 CHECK BEFORE USE  
 IF SHEET IS LESS THAN 22" X 34"  
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 ACCORDINGLY

NO.	DATE	REVISIONS/DESCRIPTION	APPR'D.

DESIGNED BY:  
**N. CREVIER, PE**  
 CHECKED BY:  
**C. JENNE, PE**  
 DESIGN LEAD:  
**O. HUNTER, PE**  
 SECTION MANAGER:

DRAWN BY:  
  
**HARDESTY & HANOVER, LLC**  
**ENGINEERING**  
 1501 Broadway New York, NY 10036

  
**NEW YORK CITY**  
**Environmental Protection**

ACCOUNTABLE MANAGER  
**JEFFREY A. BUSSE, PE**  
 PORTFOLIO MANAGER  
**PAUL COSTA, PE**  
 EXECUTIVE DIRECTOR  
**SEAN McANDREW, PE**

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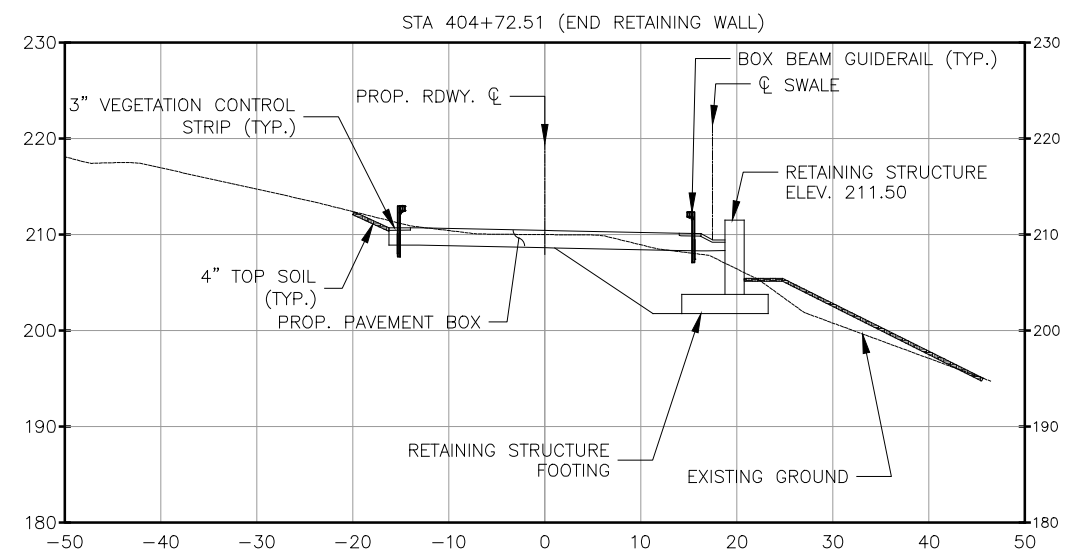
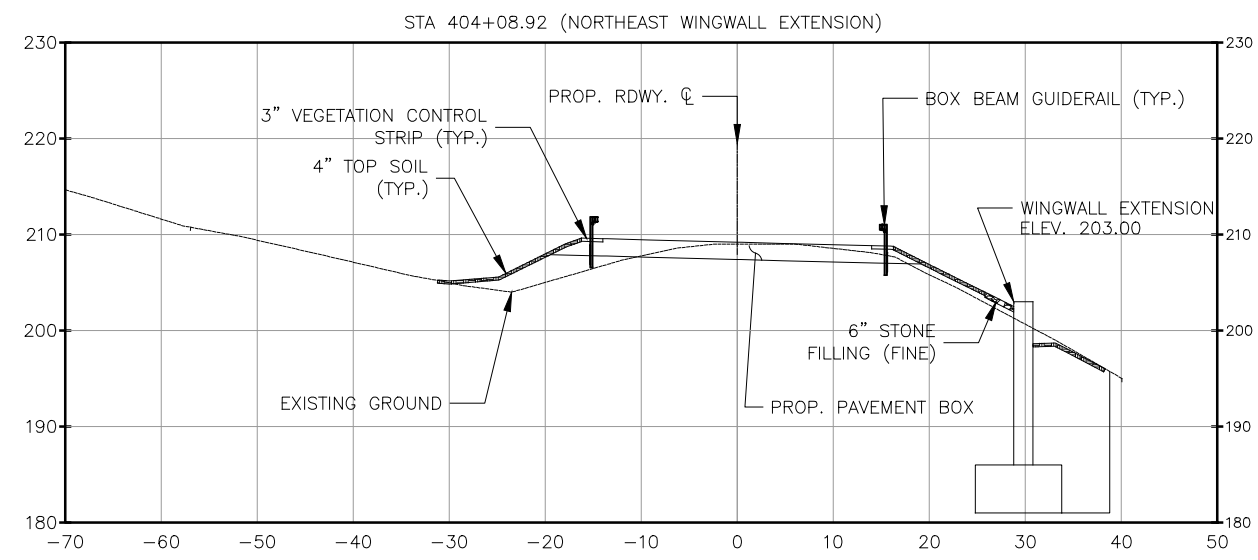
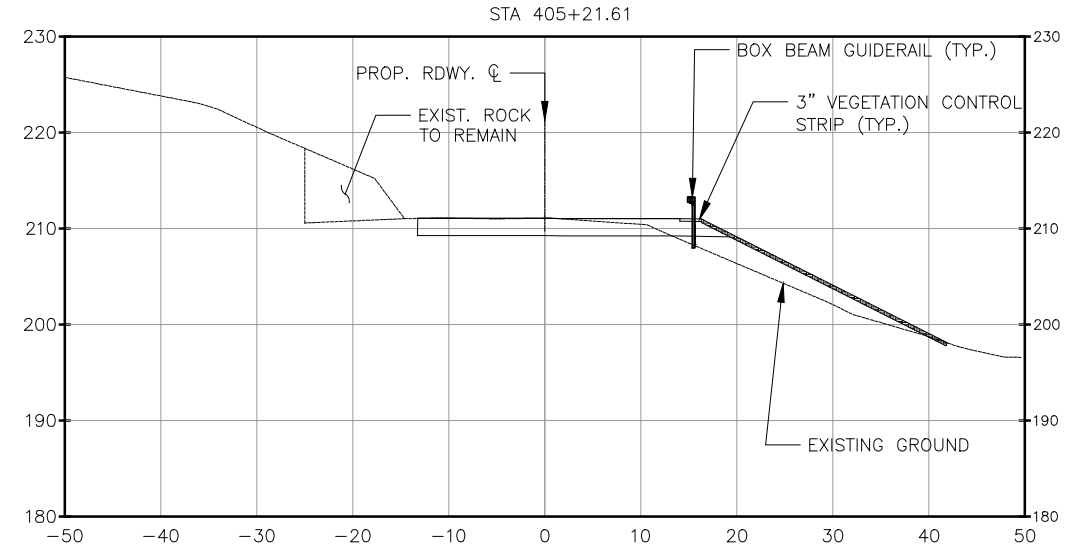
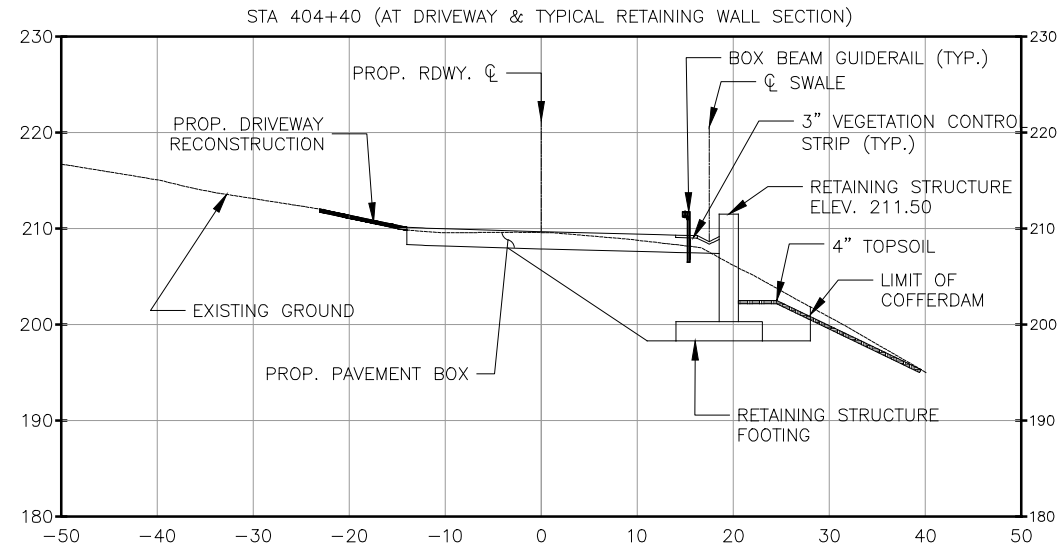
**NEW YORK CITY**  
**ENVIRONMENTAL PROTECTION**  
 BUREAU OF ENGINEERING DESIGN & CONSTRUCTION  
 96-05 HORACE HARDING EXPRESSWAY 5th FLOOR  
 CORONA, NEW YORK 11368  
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**CAPITAL PROJECT WM-30**  
**IN WESTCHESTER COUNTY, NEW YORK**  
**CONTRACT CRO-530B**  
 BAPTIST CHURCH ROAD  
 CROSS SECTIONS - SOUTH APPROACH

DATE: 04/23/2021  
 SCALE: 1" = 10'-0"  
 SHEET NO:  
 19 OF 46  
 DRAWING NO.  
 32-1

All inquiries regarding this drawing(s) or project should be made to NYC Environmental Protection, Bureau of Engineering Design and Construction.

- NOTES:  
 1. FOR PAVEMENT COMPOSITION SEE DWG. NO. C-3  
 2. FOR RETAINING STRUCTURE DETAILS SEE DWG. NO. S-14  
 3. FOR WINGWALL AND CONNECTION DETAILS SEE DWG. NO. S-7 AND S-8  
 4. FOR DRIVEWAY GRADING AND INFORMATION SEE DWG. NO. C-7  
 5. FOR GRADING DETAILS SEE DWG. NO. ESC-1



Last Saved By & Date: Nreveler, Monday, June 07, 2021 and Date Plotted: Tuesday, July 06, 2021 Time: 12:27 PM  
 Paper Size: ANSI A (8.50 x 11.00 Inches) Plot Style Table: (N)\_BDDC\_BW.ctb  
 Drawing Name: C:\users\nreveler\hprod\dms37923\BAPTIST CHURCH ROAD - XS2\_Rev 4.13.21.dwg

60% DESIGN SUBMITTAL  
 SUBMITTAL DATE: 4/23/2021

GRAPHIC SCALES  
 CHECK BEFORE USE  
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 ACCORDINGLY

NO.	DATE	REVISIONS/DESCRIPTION	APPR'D.

DESIGNED BY:  
**N. GREVIER, PE**  
 CHECKED BY:  
**C. JENNE, PE**  
 DESIGN LEAD:  
**O. HUNTER, PE**  
 SECTION MANAGER:

DRAWN BY:  
  
 HARDESTY & HANOVER, LLC  
 ENGINEERING  
 1501 Broadway New York, NY 10036

  
**Environmental Protection**

ACCOUNTABLE MANAGER  
 JEFFREY A. BUSSE, PE  
 PORTFOLIO MANAGER  
 PAUL COSTA, PE  
 EXECUTIVE DIRECTOR  
 SEAN McANDREW, PE

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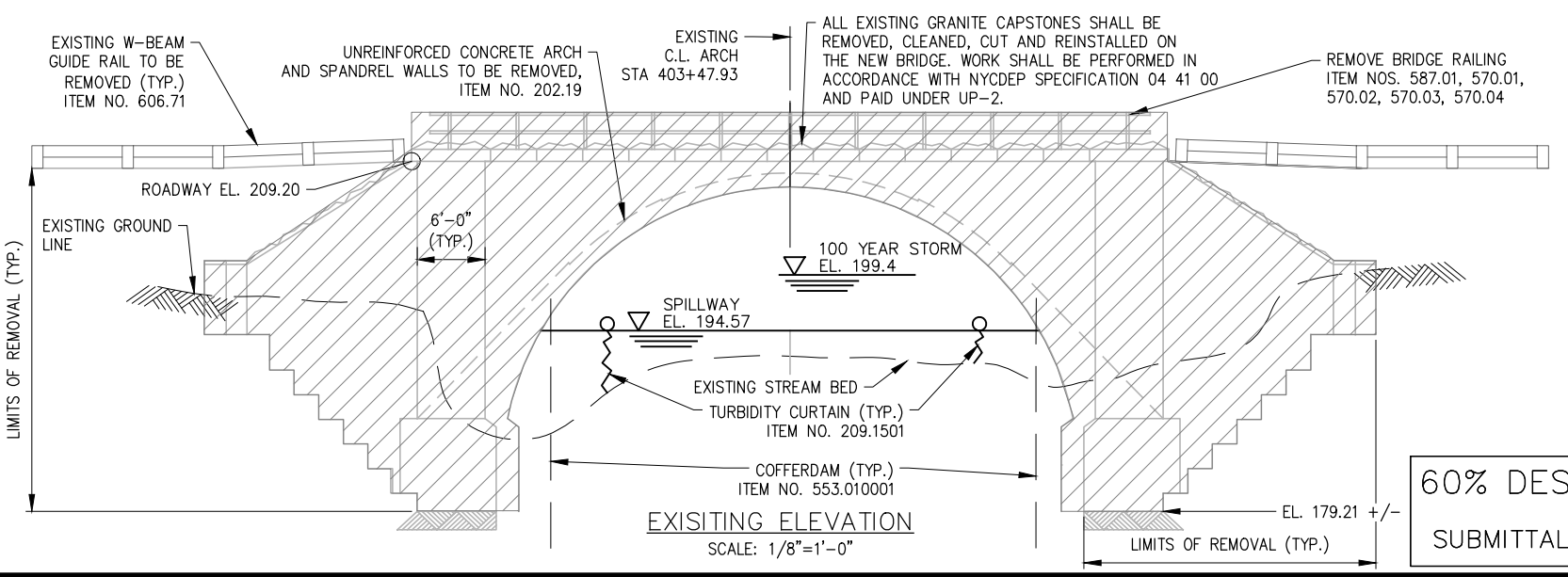
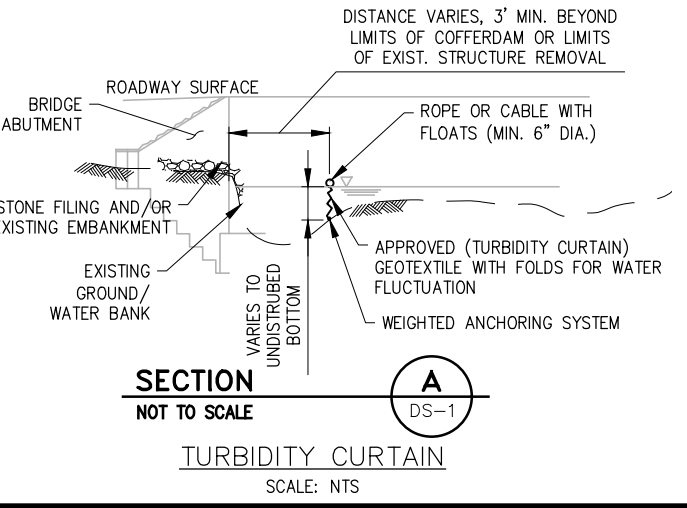
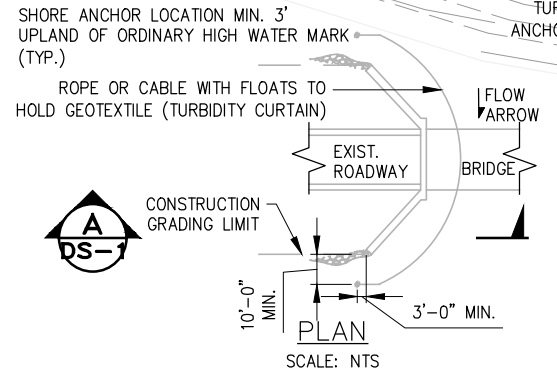
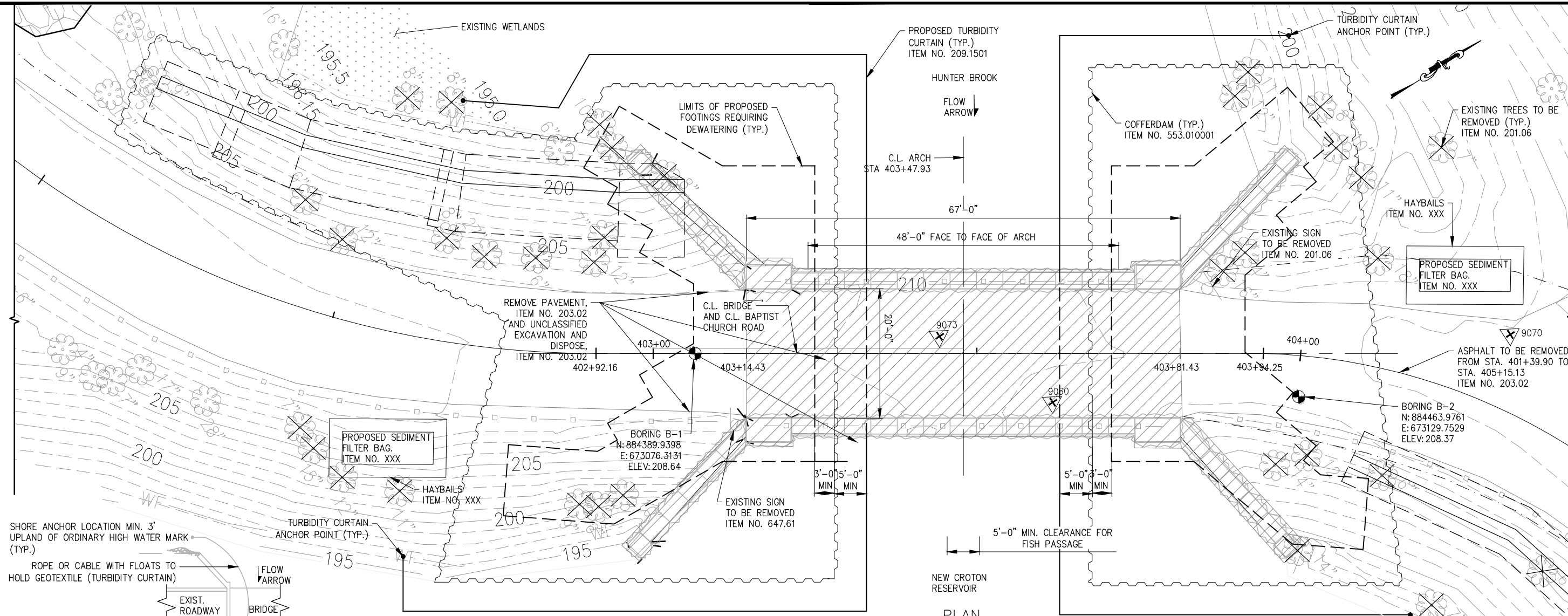
**CAPITAL PROJECT WM-30**  
**IN WESTCHESTER COUNTY, NEW YORK**  
**CONTRACT CRO-530B**  
 BAPTIST CHURCH ROAD  
 CROSS SECTIONS - NORTH APPROACH

DATE: 04/23/2021  
 SCALE: 1" = 10'-0"  
 SHEET NO:  
 20 OF 46  
 DRAWING NO.  
 83-2

All inquiries regarding this drawing(s) or project should be made to NYC Environmental Protection, Bureau of Engineering Design and Construction.



Last Saved By: D:\Data\Chalkhova, Wednesday, June 30, 2021 and Date Plotted: Monday, July 12, 2021 Time: 1:10 PM  
 Paper Size: ANSI A (8.50 x 11.00 inches) Plot Scale: 0.336663 Plot Style Table: (N) BLDG.dwg  
 Drawing Name: & Location: C:\Users\chalkhova\OneDrive\Documents\37850\PAR-TIST CHURCH DEMOLITION PLAN.dwg



- NOTES:**
1. THE CONTRACTOR SHALL PIECE MARK AND DISMANTLE THE EXISTING GRANITE CAPSTONES ON THE EXISTING STRUCTURES
  2. THE CONTRACTOR SHALL FIELD MEASURE EACH CAPSTONE PRIOR TO REMOVAL
  3. THE CAPSTONES SHALL BE REMOVED AND STORED AT A SECURE LOCATION WHICH HAS BEEN APPROVED BY THE RESIDENT ENGINEER. THE BRIDGE SUBSTRUCTURE SHALL BE COMPLETELY REMOVED. DEMOLITION OF THE SUBSTRUCTURE SHALL BE PAID FOR UNDER ITEM 202.19.
  4. THE CONTRACTOR SHALL DESIGN, CONSTRUCT, MAINTAIN AND REMOVE COFFERDAMS WHICH COMPLETELY ENCLOSE BOTH ABUTMENTS AND WINGWALLS AND ALLOW EXCAVATION, DEMOLITION AND NEW CONSTRUCTION TO PROCEED WITHOUT CAUSING SEDIMENT TO ENTER THE WATERWAY.
  5. LIMITS OF COFFERDAM SHOWN ARE SCHEMATIC. CONTRACTOR SHALL DETERMINE THE LAYOUT AND LIMITS OF COFFERDAM AS REQUIRED TO COMPLETE THE WORK.
  6. TURBIDITY CURTAINS SHALL BE INSTALLED PRIOR TO COFFERDAM CONSTRUCTION

60% DESIGN SUBMITTAL  
 SUBMITTAL DATE: 4/23/2021

GRAPHIC SCALES CHECK BEFORE USE  
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NO.	DATE	REVISIONS/DESCRIPTION	APPR'D.

DESIGNED BY: J. CIRCOSTA	DRAWN BY: J. CIRCOSTA
CHECKED BY: O. HUNTER, PE	
DESIGN LEAD: O. HUNTER, PE	HARDESTY & HANOVER, LLC ENGINEERING 1501 Broadway, New York, NY 10036
SECTION MANAGER:	



ACCOUNTABLE MANAGER JEFFREY A. BUSSE, PE	*WARNING—IT IS A VIOLATION, OF THE NEW YORK STATE EDUCATION LAW, SECTION, 7209.2, FOR ANY PERSON, UNLESS (S)HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT IN ANY WAY. IF ALTERED, THE ALTERING PERSON SHALL COMPLY WITH THE REQUIREMENTS OF NEW YORK EDUCATION, LAW, SECTION, 7209.2.*
PORTFOLIO MANAGER PAUL COSTA, PE	
EXECUTIVE DIRECTOR SEAN McANDREW, PE	

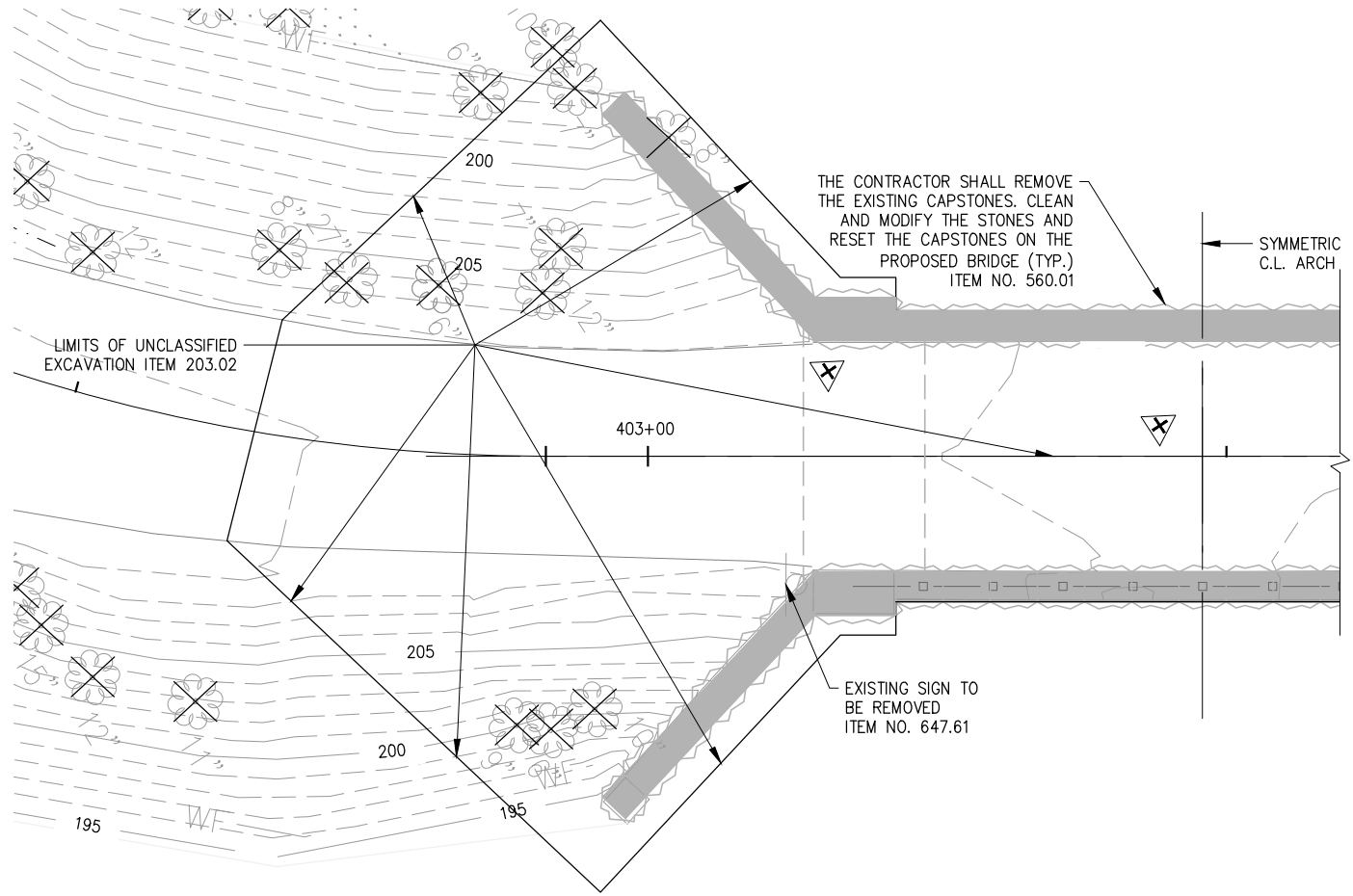
**NEW YORK CITY ENVIRONMENTAL PROTECTION**  
 BUREAU OF ENGINEERING DESIGN & CONSTRUCTION  
 96-05 HORACE HARDING EXPRESSWAY 5th FLOOR  
 CORONA, NEW YORK 11368  
 www.nyc.gov/dep

**CAPITAL PROJECT WM-30 IN WESTCHESTER COUNTY, NEW YORK**  
 CONTRACT CRO-530B  
 DEMOLITION PLAN

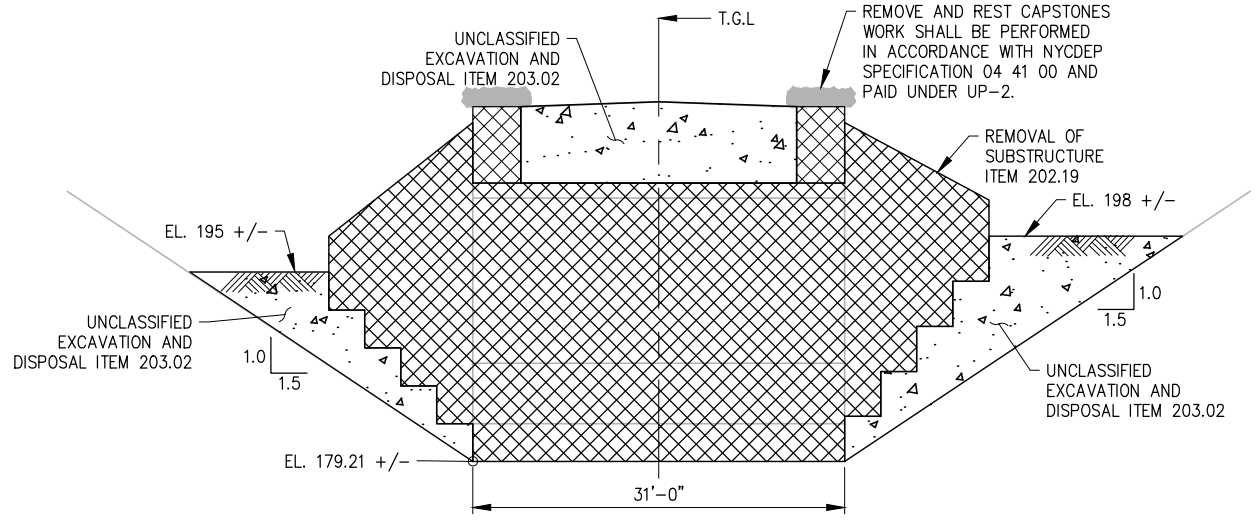
DATE: 04/23/2021
SCALE: 1/8"=1'-0"
SHEET NO: 22 OF 46
DRAWING NO. DS-1

All inquiries regarding this drawing(s) or project should be made to NYC Environmental Protection, Bureau of Engineering Design and Construction.

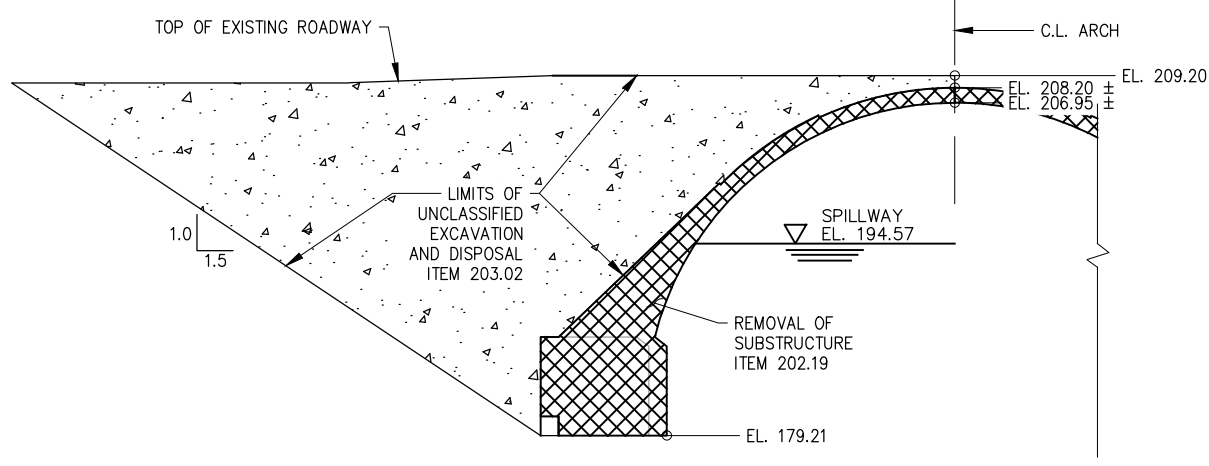
Last Saved By: & Date: Cehlykhova, Friday, April 23, 2021, and Date Plotted: Tuesday, June 01, 2021 Time: 4:04 PM  
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 Drawing Name: & Location: C:\users\cehlykhova\Myprod\Arms37850\REMOVAL DETAILS.dwg



ARCH REMOVAL - PLAN  
SCALE: 1/8"=1'-0"



ARCH REMOVAL - END ELEVATION  
SCALE: 1/8"=1'-0"



ARCH REMOVAL - SECTION  
SCALE: 1/8"=1'-0"

- NOTE:**
- TREE REMOVAL UNDER 6" PAID FOR UNDER ITEM 201.06. TREE REMOVAL BETWEEN 6" AND 12" PAID FOR UNDER ITEM 614.060204. TREE REMOVAL BETWEEN 12" AND 18" PAID FOR UNDER ITEM 614.060304. TREE REMOVAL BETWEEN 18" AND 24" PAID FOR UNDER ITEM 614.060404. TREE REMOVAL BETWEEN 24" TO 36" PAID FOR ITEM 614.060504.

- LEGEND:**
- UNCLASSIFIED EXCAVATION AND DISPOSAL ITEM NO. 203.02
  - REMOVAL OF SUBSTRUCTURE ITEM NO. 202.19
  - REMOVE AND RESET GRANITE STONES WORK SHALL BE PERFORMED IN ACCORDANCE WITH NYC DEP SPECIFICATION 04 41 00 AND PAID UNDER UP-2.

60% DESIGN SUBMITTAL  
SUBMITTAL DATE: 4/23/2021

GRAPHIC SCALES  
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ACCORDINGLY

NO.	DATE	REVISIONS/DESCRIPTION	APPR'D.

DESIGNED BY:  
J. CIRCOSTA  
CHECKED BY:  
O. HUNTER, P.E.  
DESIGN LEAD:  
O. HUNTER, P.E.  
SECTION MANAGER:

DRAWN BY:  
J. CIRCOSTA  
  
HARDESTY & HANOVER, LLC  
ENGINEERING  
1501 Broadway New York, NY 10036



ACCOUNTABLE MANAGER  
JEFFREY A. BUSSE, PE  
PORTFOLIO MANAGER  
PAUL COSTA, PE  
EXECUTIVE DIRECTOR  
SEAN McANDREW, PE

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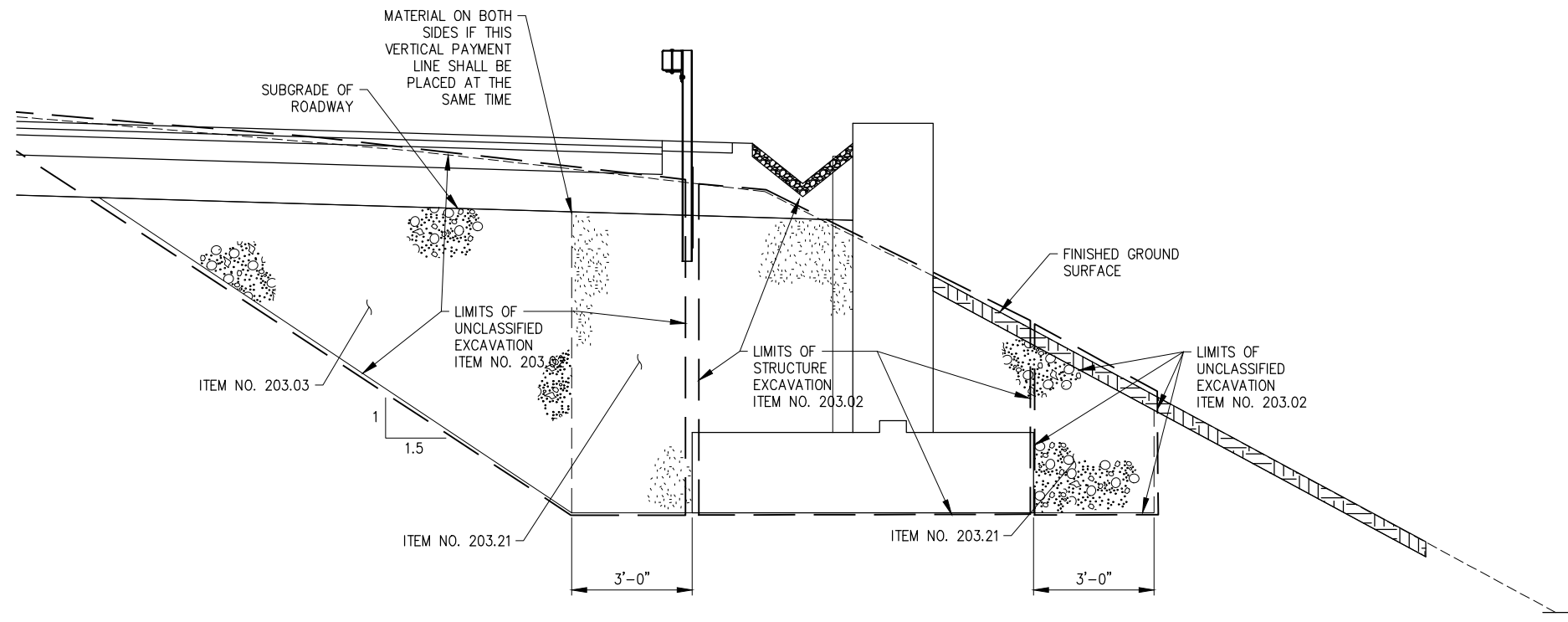
**NEW YORK CITY**  
**ENVIRONMENTAL PROTECTION**  
BUREAU OF ENGINEERING DESIGN & CONSTRUCTION  
96-05 HORACE HARDING EXPRESSWAY 5th FLOOR  
CORONA, NEW YORK 11368  
www.nyc.gov/dep

**CAPITAL PROJECT WM-30**  
**IN WESTCHESTER COUNTY, NEW YORK**  
**CONTRACT CRO-530B**  
  
ARCH REMOVAL DETAILS

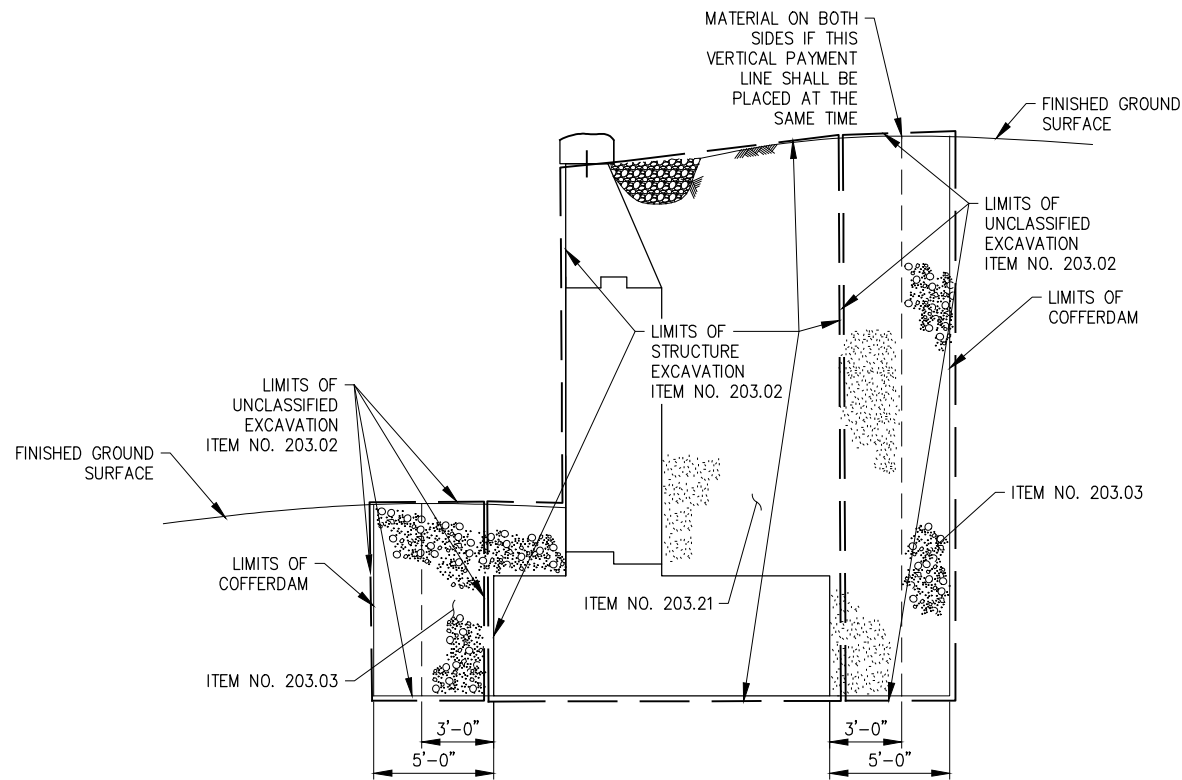
DATE: 04/23/2021  
SCALE: 1/8" = 1'-0"  
SHEET NO:  
23 OF 46  
DRAWING NO.  
DSS-2





Last Saved By: & Date: Cahlykhova, Friday, April 23, 2021, and Date Plotted: Tuesday, June 01, 2021 Time: 3:55 PM  
 Paper Size: ANSI A (8.50 x 11.00 inches) Plot Scale: 0.356863 Plot Style Table: (N) BADC\_BW.ctb  
 Drawing Name: & Location: C:\Users\Cahlykhova\Inprod\Arms37850\BAP\TIST CHURCH\_RW EXCAVATION.dwg



TYPICAL RETAINING WALL SECTION  
SCALE: 1/2"=1'-0"



TYPICAL WINGWALL SECTION  
SCALE: 1/4"=1'-0"

- LEGEND:
-  - SELECT STRUCTURAL FILL ITEM NO. 203.21
  -  - EMBANKMENT IN PLACE ITEM NO. 203.03

60% DESIGN SUBMITTAL  
SUBMITTAL DATE: 4/23/2021

GRAPHIC SCALES  
CHECK BEFORE USE

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IT IS A REDUCED PRINT SCALE  
ACCORDINGLY

NO.	DATE	REVISIONS/DESCRIPTION	APPR'D.

DESIGNED BY:  
O. HUNTER, P.E.  
CHECKED BY:  
M. YOUNG, PE  
DESIGN LEAD:  
O. HUNTER, P.E.  
SECTION MANAGER:

DRAWN BY:  
J. CIRICOSTA  
  
HARDESTY & HANOVER, LLC  
ENGINEERING  
1501 Broadway New York, NY 10036



ACCOUNTABLE MANAGER  
JEFFREY A. BUSSE, PE  
PORTFOLIO MANAGER  
PAUL COSTA, PE  
EXECUTIVE DIRECTOR  
SEAN McANDREW, PE

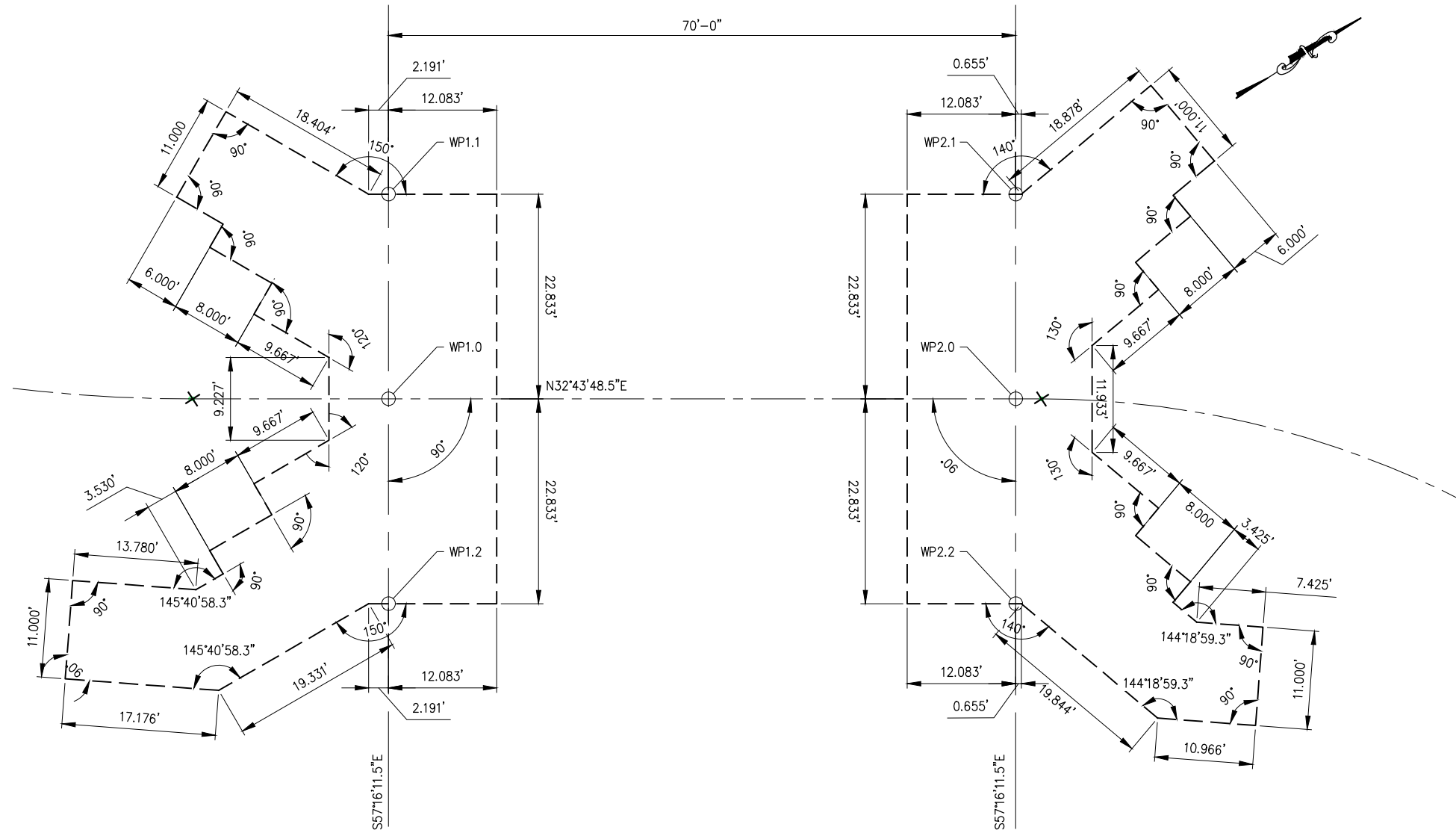
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**NEW YORK CITY**  
**ENVIRONMENTAL PROTECTION**  
BUREAU OF ENGINEERING DESIGN & CONSTRUCTION  
96-05 HORACE HARDING EXPRESSWAY 5th FLOOR  
CORONA, NEW YORK 11368  
www.nyc.gov/dep

**CAPITAL PROJECT WM-30**  
**IN WESTCHESTER COUNTY, NEW YORK**  
**CONTRACT CRO-530B**  
  
EXCAVATION DETAILS

DATE: 04/23/2021  
SCALE: AS NOTED  
SHEET NO:  
24 OF 46  
DRAWING NO.  
DS-3

Last Saved By: & Date: Cehlykhova, Friday, April 23, 2021, and Date Plotted: Tuesday, June 01, 2021 Time: 5:27 PM  
 Paper Size: ANSI A (8.50 x 11.00 inches) Plot Scale: 0.356863 Plot Style Table: (N) BEND\_BW.ctb  
 Drawing Name: & Location: C:\Users\cehlykhova\Inp\prod\Arms37850\PAR-TIST CHURCH GEOMETRIC LAYOUT\_2.dwg



GEOMETRIC LAYOUT  
SCALE: 1/8"=1'-0"

WORK POINT	COORDINATES		C.L. BAPTIST CHURCH ROAD	
	NORTHING	EASTING	STATION	OFFSET
WP 1.0	884,398.9477	673,074.8135	403+10.077	0.000
WP 1.1	884,411.2933	673,055.6054	403+10.077	-22.833
WP 1.2	884,386.6021	673,094.0215	403+10.077	22.833
WP 2.0	884,457.8335	673,112.6613	403+80.077	0.000
WP 2.1	884,470.1791	673,093.4532	403+80.077	-22.833
WP 2.2	884,445.4879	673,131.8643	403+80.077	22.833

60% DESIGN SUBMITTAL  
SUBMITTAL DATE: 4/23/2021

GRAPHIC SCALES  
CHECK BEFORE USE  
IF SHEET IS LESS THAN 22" X 34"  
IT IS A REDUCED PRINT. SCALE  
ACCORDINGLY

NO.	DATE	REVISIONS/DESCRIPTION	APPR'D.

DESIGNED BY:  
O. HUNTER, P.E.  
CHECKED BY:  
N. CREWER, P.E.  
DESIGN LEAD:  
O. HUNTER, P.E.  
SECTION MANAGER:

DRAWN BY:  
J. CIRCOSTA  
  
HARDESTY & HANOVER, LLC  
ENGINEERING  
1501 Broadway New York, NY 10036



ACCOUNTABLE MANAGER  
JEFFREY A. BUSSE, PE  
PORTFOLIO MANAGER  
PAUL COSTA, PE  
EXECUTIVE DIRECTOR  
SEAN McANDREW, PE

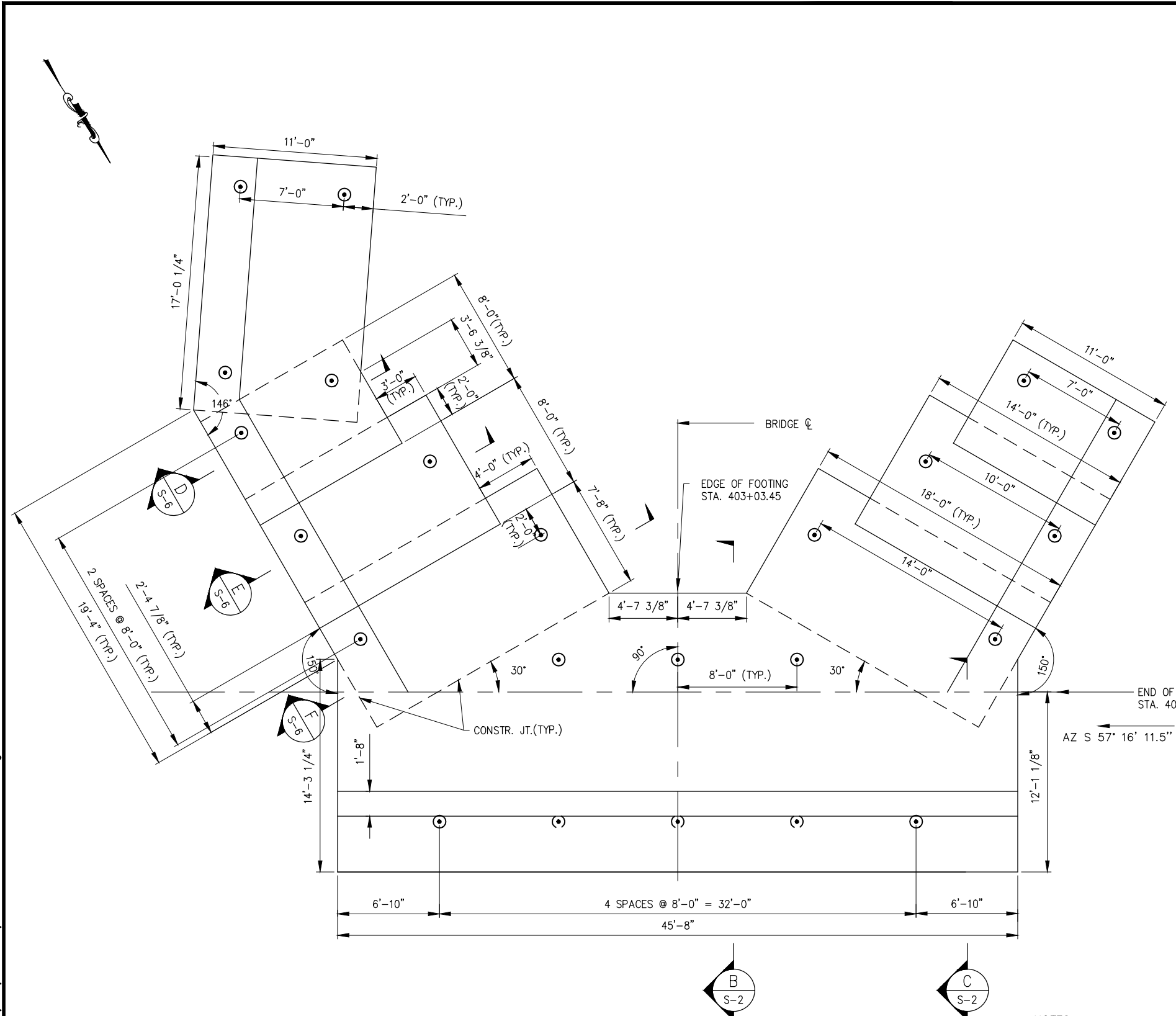
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96-05 HORACE HARDING EXPRESSWAY 5th FLOOR  
CORONA, NEW YORK 11368  
www.nyc.gov/dep

**CAPITAL PROJECT WM-30**  
**IN WESTCHESTER COUNTY, NEW YORK**  
**CONTRACT CRO-530B**  
  
GEOMETRIC LAYOUT

DATE: 04/23/2021  
SCALE: AS NOTED  
SHEET NO:  
25 OF 46  
DRAWING NO.  
S381

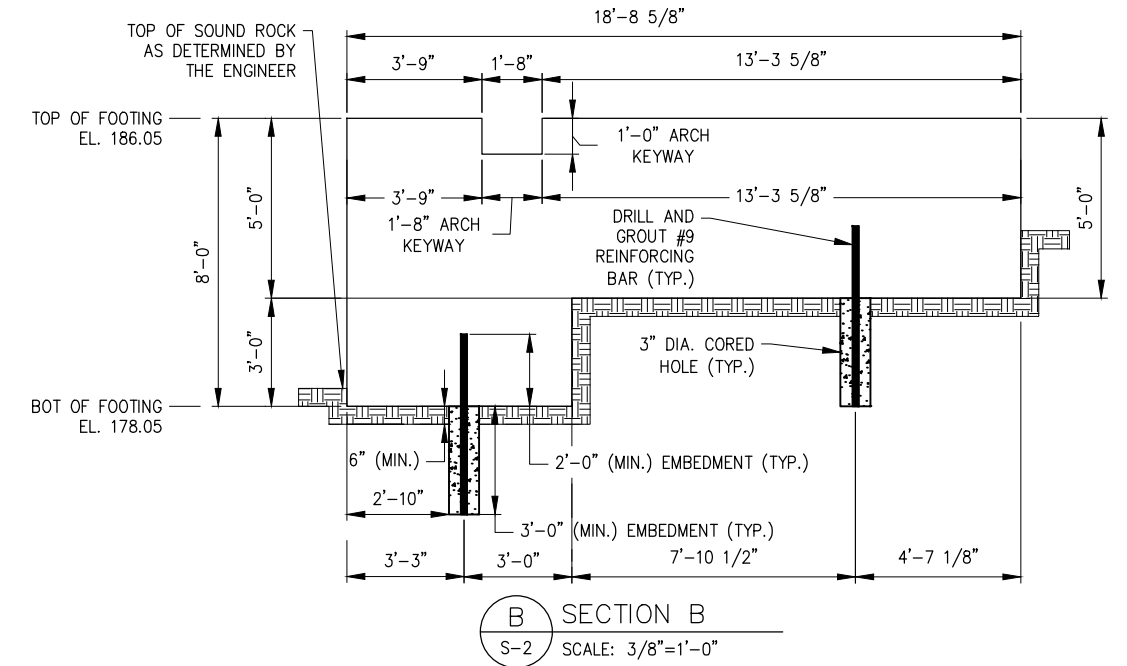
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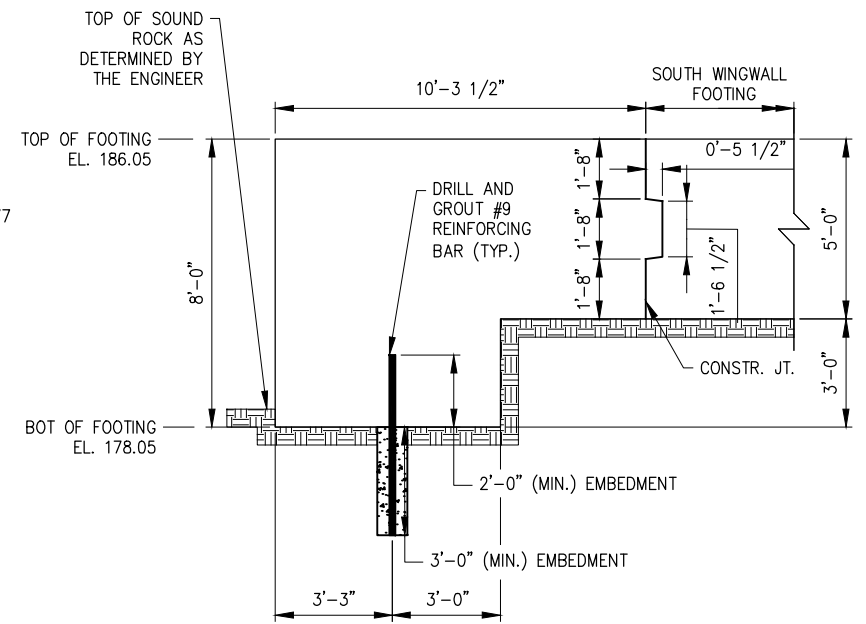
**FOOTING PLAN**  
SCALE: 1/4" = 1'-0"

- LEGEND:**
- ROCK DOWELS
  - SOUND ROCK

- NOTES:**
- REINFORCING BARS FOR ROCK DOWELS SHALL BE GRADE 60 GALVANIZED CARBON-STEEL BARS PER ASTM A 615
  - ROCK EXCAVATION IS ANTICIPATED FOR FOOTING CONSTRUCTION. WORK SHALL BE PAID UNDER UP-1 AND PERFORMED IN ACCORDANCE WITH NYDEP SPECIFICATION SECTION 31 23 25.
  - SEE DRAWING G-5 FOR STRUCTURAL NOTES ON REINFORCING STEEL AND CONCRETE.



**B SECTION B**  
S-2 SCALE: 3/8"=1'-0"



**C SECTION C**  
S-2 SCALE: 3/8"=1'-0"

**60% DESIGN SUBMITTAL**  
SUBMITTAL DATE: 4/23/2021

GRAPHIC SCALES  
CHECK BEFORE USE

IF SHEET IS LESS THAN 22" X 34"  
IT IS A REDUCED PRINT. SCALE  
ACCORDINGLY

NO.	DATE	REVISIONS/DESCRIPTION	APPR'D.

DESIGNED BY: O. HUNTER, P.E.	DRAWN BY: J. CIRCOСТА
CHECKED BY: R. ROMAN, P.E.	 <b>HARDESTY &amp; HANOVER, LLC</b> ENGINEERING 1501 Broadway New York, NY 10036
DESIGN LEAD: O. HUNTER, P.E.	
SECTION MANAGER:	



ACCOUNTABLE MANAGER JEFFREY A. BUSSE, PE	<b>NEW YORK CITY</b> <b>ENVIRONMENTAL PROTECTION</b> BUREAU OF ENGINEERING DESIGN & CONSTRUCTION 96-05 HORACE HARDING EXPRESSWAY 5th FLOOR CORONA, NEW YORK 11368 www.nyc.gov/dep
PORTFOLIO MANAGER PAUL COSTA, PE	
EXECUTIVE DIRECTOR SEAN McANDREW, PE	
<small>*WARNING-IT IS A VIOLATION, OF THE NEW YORK STATE EDUCATION LAW, SECTION, 7209.2, FOR ANY PERSON, UNLESS (S)HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT IN ANY WAY. IF ALTERED, THE ALTERING PERSON SHALL COMPLY WITH THE REQUIREMENTS OF NEW YORK EDUCATION, LAW, SECTION, 7209.2.*</small>	

DATE: 04/23/2021
SCALE: AS NOTED
SHEET NO: 26 OF 46
DRAWING NO. S392

All inquiries regarding this drawing(s) or project should be made to NYC Environmental Protection, Bureau of Engineering Design and Construction.

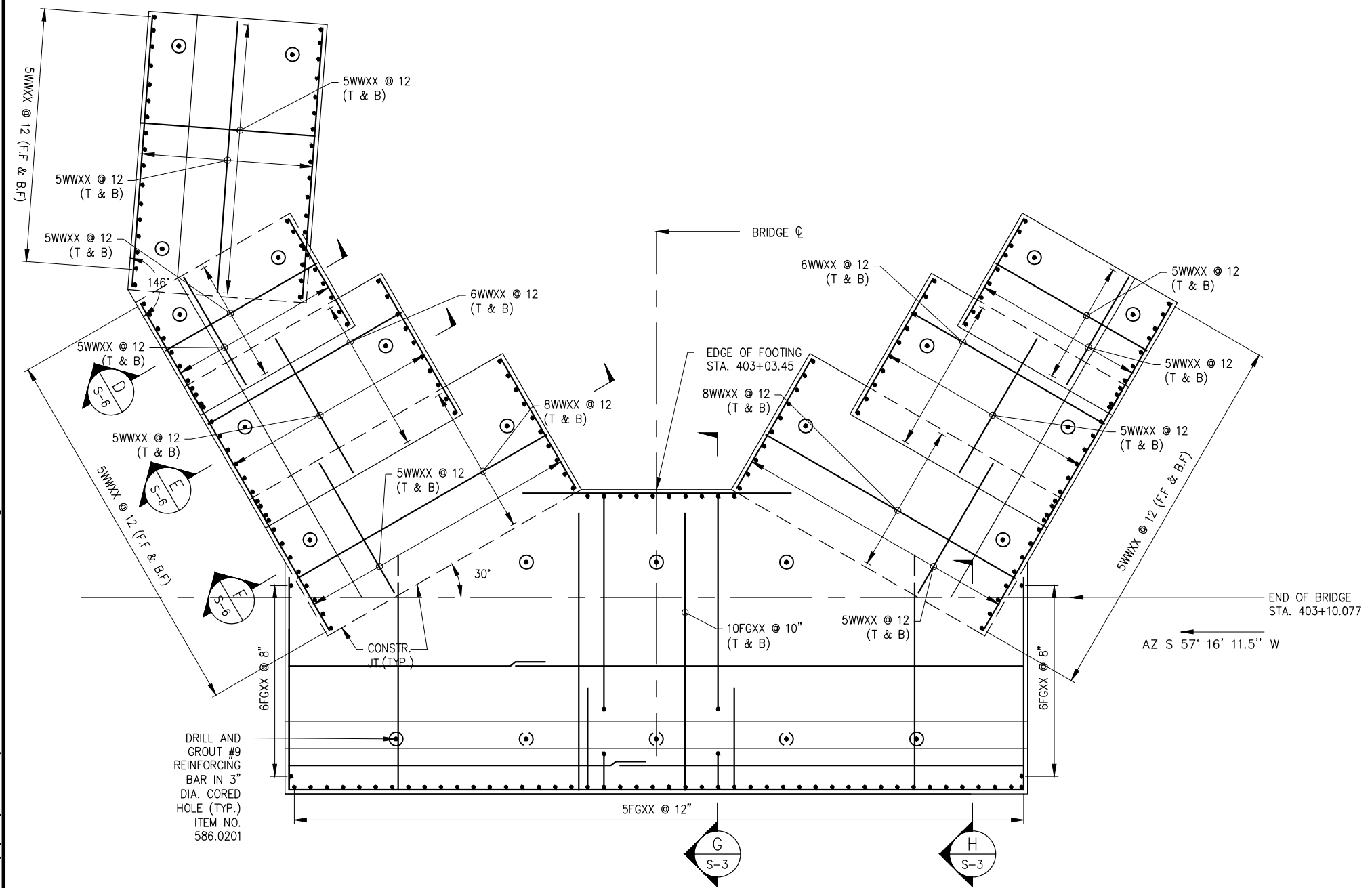
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 Drawing Name: & Location: C:\Users\cehlykhova\Inp\prod\Arms37850\South Footing Reinforcement Details.dwg

**LEGEND:**

-  - ROCK DOWELS
-  - SOUND ROCK

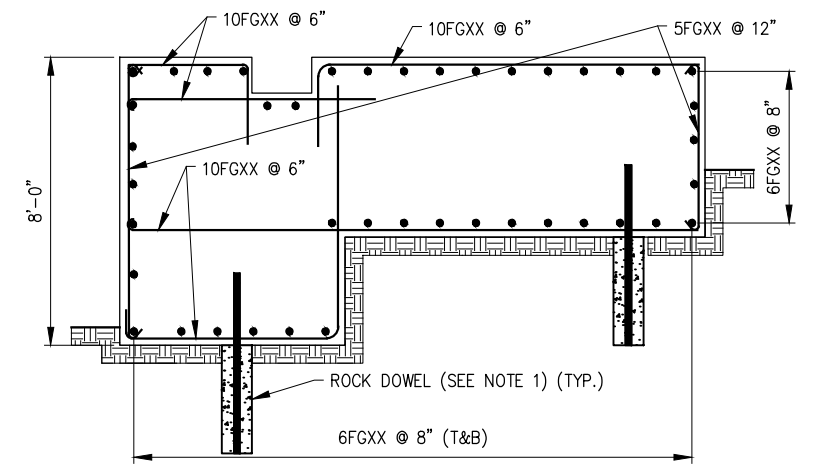
**NOTES:**

1. FOR ROCK DOWEL LAYOUT AND NOTES SEE DWG NO S-2.
2. MINIMUM CONCRETE COVER WILL BE NO LESS THAN 3 INCHES.
3. SEE DRAWING G-6 FOR STRUCTURAL NOTES ON REINFORCING STEEL AND CONCRETE.

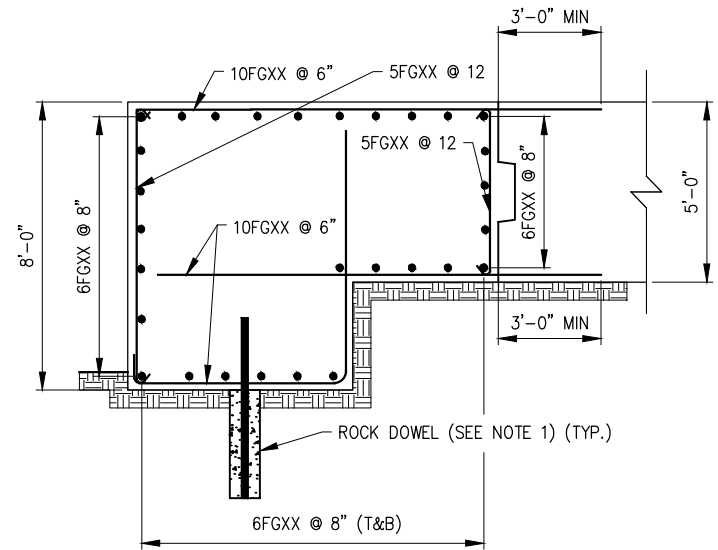


DRILL AND GROUT #9 REINFORCING BAR IN 3" DIA. CORED HOLE (TYP.)  
 ITEM NO. 586.0201

**FOOTING PLAN**  
SCALE: 1/4" = 1'-0"



**G SECTION G**  
S-3 SCALE: 3/8"=1'-0"



**H SECTION H**  
S-3 SCALE: 3/8"=1'-0"

**60% DESIGN SUBMITTAL**  
SUBMITTAL DATE: 4/23/2021

GRAPHIC SCALES  
CHECK BEFORE USE

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ACCORDINGLY

NO.	DATE	REVISIONS/DESCRIPTION	APPR'D.

DESIGNED BY:  
O. HUNTER, P.E.  
 CHECKED BY:  
R. ROMAN, P.E.  
 DESIGN LEAD:  
O. HUNTER, P.E.  
 SECTION MANAGER:

DRAWN BY:  
J. CIRCOSTA  
  
 HARDESTY & HANOVER, LLC  
 ENGINEERING  
 1501 Broadway New York, NY 10036



ACCOUNTABLE MANAGER  
JEFFREY A. BUSSE, PE  
 PORTFOLIO MANAGER  
PAUL COSTA, PE  
 EXECUTIVE DIRECTOR  
SEAN McANDREW, PE

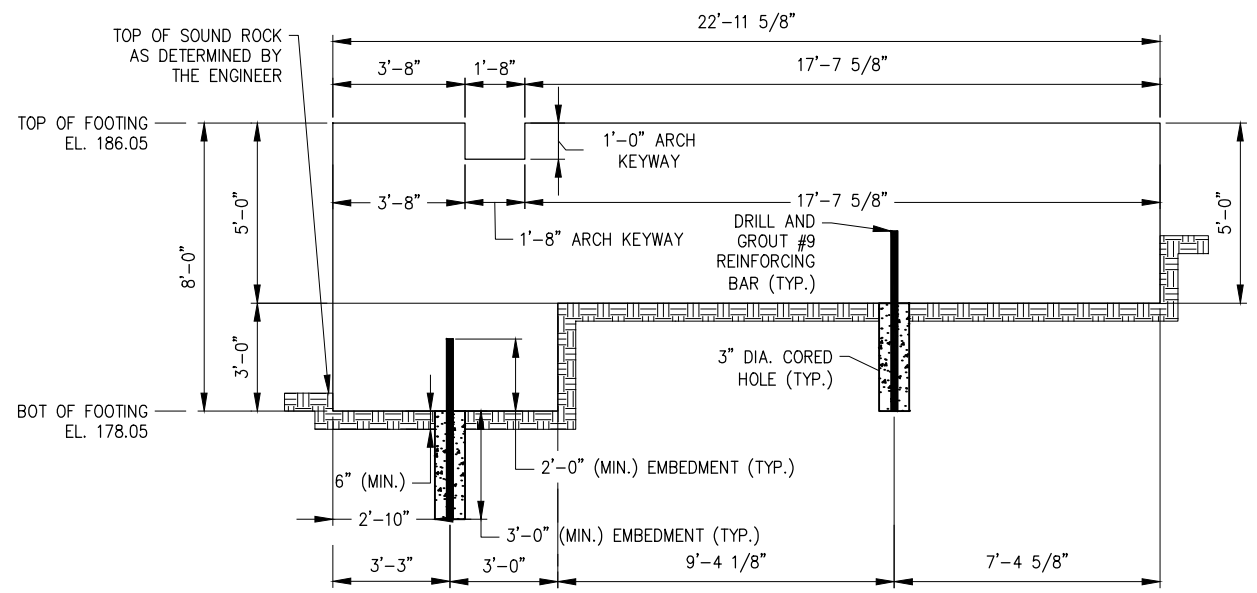
\*WARNING—IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW, SECTION, 7209.2, FOR ANY PERSON, UNLESS (S)HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT IN ANY WAY. IF ALTERED, THE ALTERING PERSON SHALL COMPLY WITH THE REQUIREMENTS OF NEW YORK EDUCATION, LAW, SECTION, 7209.2.\*

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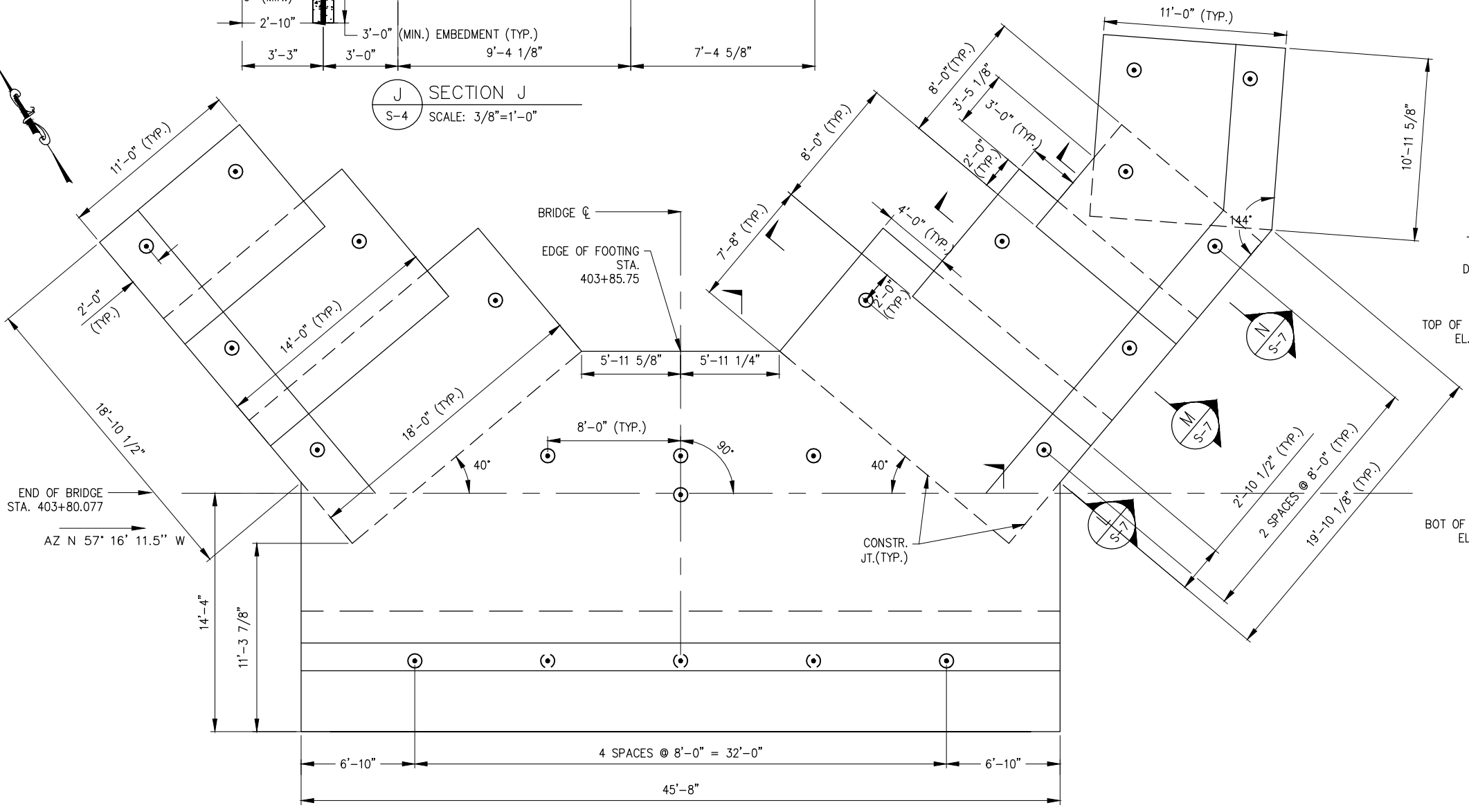
**CAPITAL PROJECT WM-30**  
**IN WESTCHESTER COUNTY, NEW YORK**  
**CONTRACT CRO-530B**  
 SOUTH FOOTING REINFORCEMENT

DATE: 04/23/2021  
 SCALE: AS NOTED  
 SHEET NO:  
27 OF 46  
 DRAWING NO.  
**S403**

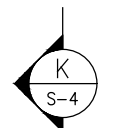
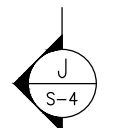
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 Drawing Name: & Location: C:\Users\cehlykhova\MyProd\Arms37850\NORTH FOOTING DETAILS\_PLOT.dwg



**J SECTION J**  
S-4 SCALE: 3/8"=1'-0"

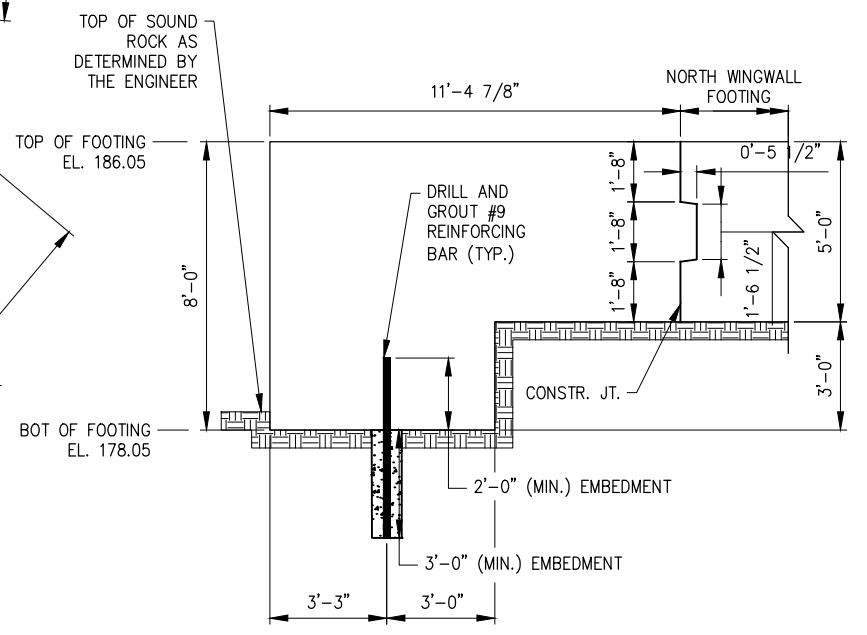


**FOOTING PLAN**  
SCALE: 1/4" = 1'-0"



- NOTES:**
- REINFORCING BARS FOR ROCK DOWELS SHALL BE GRADE 60 GALVANIZED CARBON-STEEL BARS PER ASTM A 615
  - ROCK EXCAVATION IS ANTICIPATED FOR FOOTING CONSTRUCTION. WORK SHALL BE PAID UNDER ITEM UP-1 AND PERFORMED IN ACCORDANCE WITH NYCDEP SPECIFICATION SECTION 31 23 25.

- LEGEND:**
- ROCK DOWELS
  - SOUND ROCK



**K SECTION K**  
S-4 SCALE: 3/8"=1'-0"

**60% DESIGN SUBMITTAL**  
SUBMITTAL DATE: 4/23/2021

GRAPHIC SCALES  
CHECK BEFORE USE  
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IT IS A REDUCED PRINT. SCALE  
ACCORDINGLY

NO.	DATE	REVISIONS/DESCRIPTION	APPR'D.

DESIGNED BY: O. HUNTER, P.E.	DRAWN BY: J. CIRCOSTA
CHECKED BY: R. ROMAN, P.E.	
DESIGN LEAD: O. HUNTER, P.E.	
SECTION MANAGER:	



ACCOUNTABLE MANAGER JEFFREY A. BUSSE, PE
PORTFOLIO MANAGER PAUL COSTA, PE
EXECUTIVE DIRECTOR SEAN McANDREW, PE

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CORONA, NEW YORK 11368  
www.nyc.gov/dep

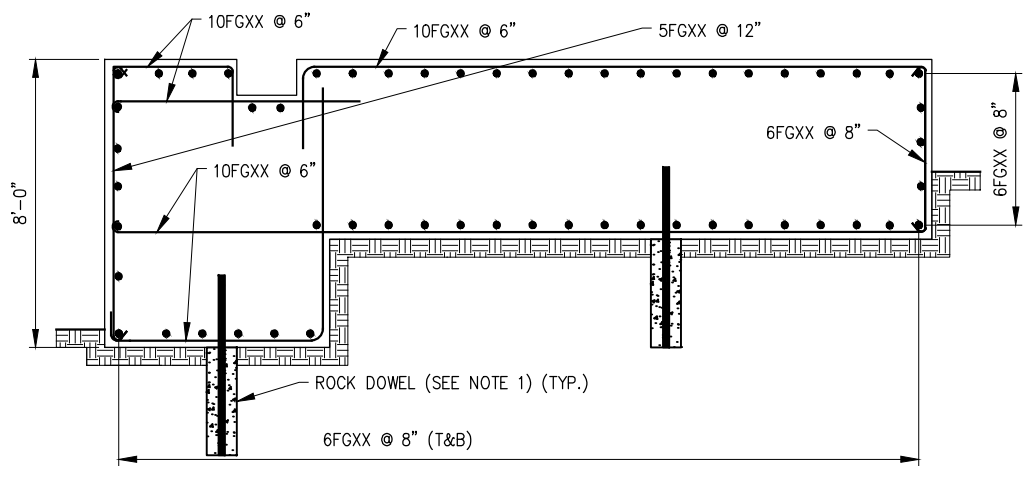
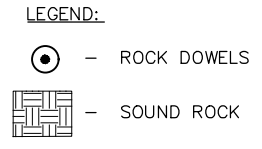
**CAPITAL PROJECT WM-30 IN WESTCHESTER COUNTY, NEW YORK CONTRACT CRO-530B**  
**NORTH FOOTING PLAN**

DATE: 04/23/2021
SCALE: AS NOTED
SHEET NO: 28 OF 46
DRAWING NO. S414

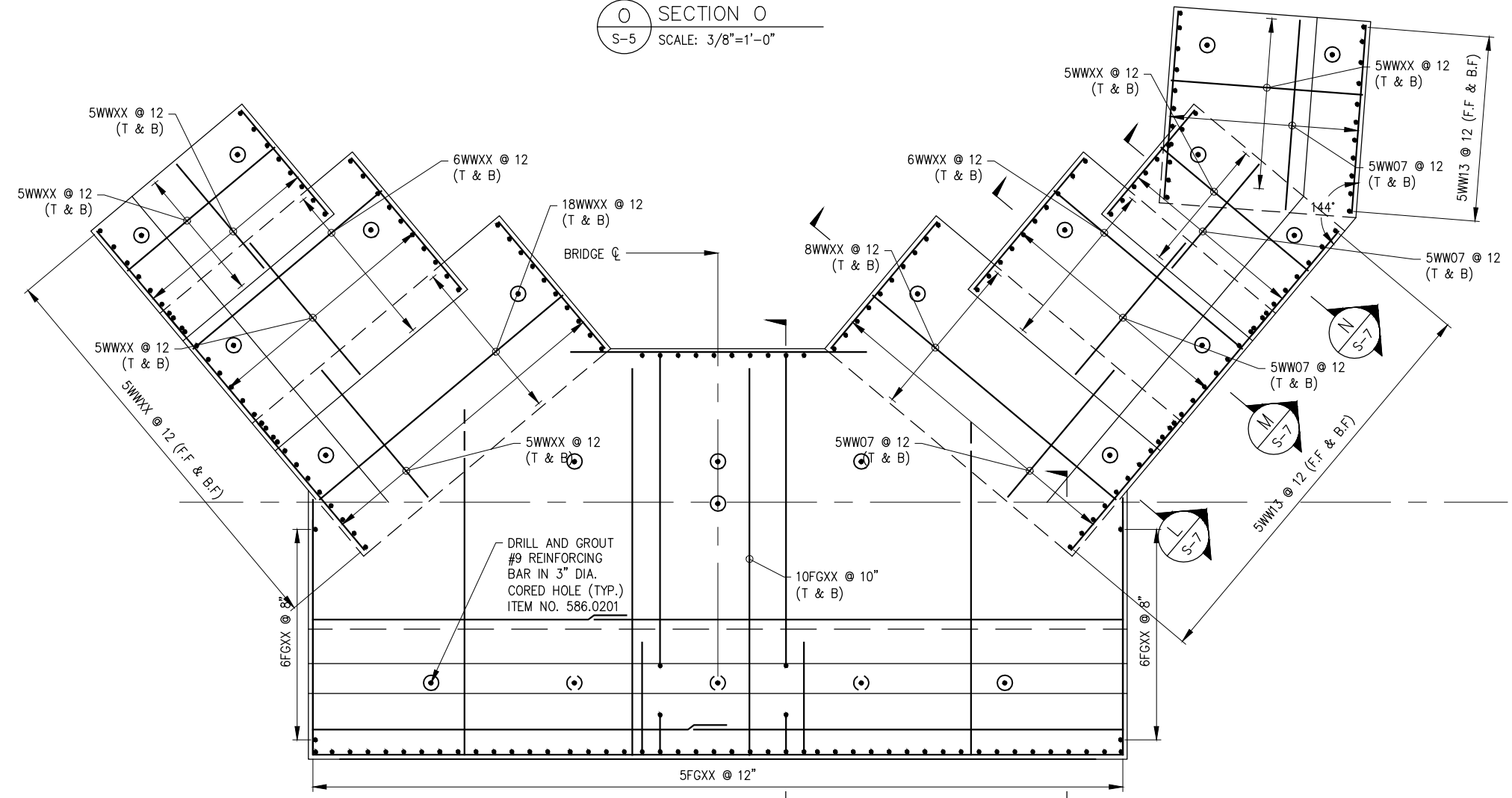
All inquiries regarding this drawing(s) or project should be made to NYC Environmental Protection, Bureau of Engineering Design and Construction.

Last Saved By: & Date: jcircoستا, Friday, April 23, 2021 and Date Plotted: Tuesday, June 01, 2021 Time: 1:59 PM  
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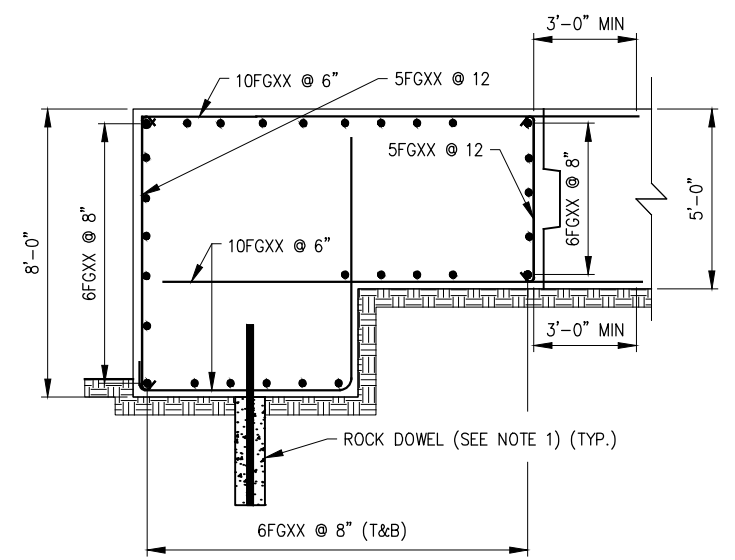
- NOTES:**
- FOR ROCK DOWEL LAYOUT AND NOTES SEE DWG NO S-2.
  - MINIMUM CONCRETE COVER WILL BE NO LESS THAN 3 INCHES.
  - SEE DRAWING G-5 FOR STRUCTURAL NOTES ON REINFORCING STEEL AND CONCRETE.



**SECTION O**  
S-5 SCALE: 3/8"=1'-0"



**FOOTING PLAN**  
SCALE: 1/4" = 1'-0"



**SECTION P**  
S-5 SCALE: 3/8"=1'-0"

**60% DESIGN SUBMITTAL**  
SUBMITTAL DATE: 4/23/2021

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ACCORDINGLY

NO.	DATE	REVISIONS/DESCRIPTION	APPR'D.

DESIGNED BY:  
O. HUNTER, P.E.  
CHECKED BY:  
R. ROMAN, P.E.  
DESIGN LEAD:  
O. HUNTER, P.E.  
SECTION MANAGER:

DRAWN BY:  
J. CIRCOSTA  
  
HARDESTY & HANOVER, LLC  
ENGINEERING  
1501 Broadway New York, NY 10036



ACCOUNTABLE MANAGER  
JEFFREY A. BUSSE, PE  
PORTFOLIO MANAGER  
PAUL COSTA, PE  
EXECUTIVE DIRECTOR  
SEAN McANDREW, PE

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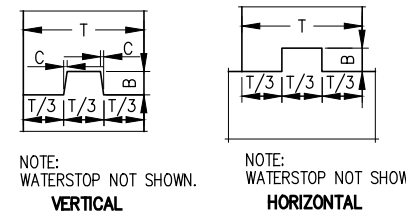
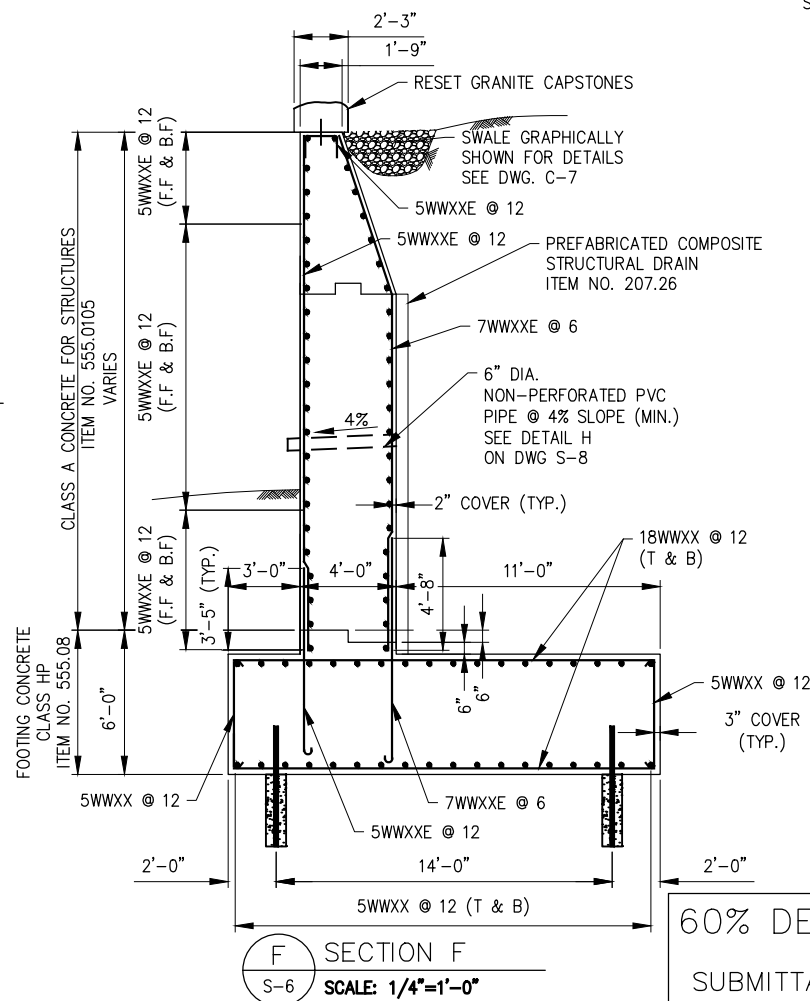
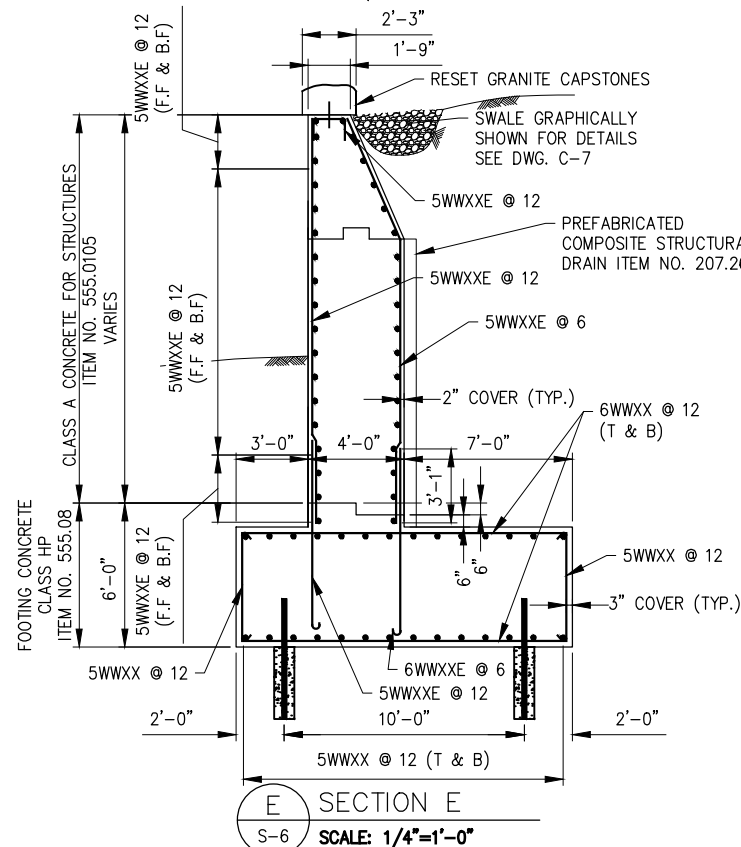
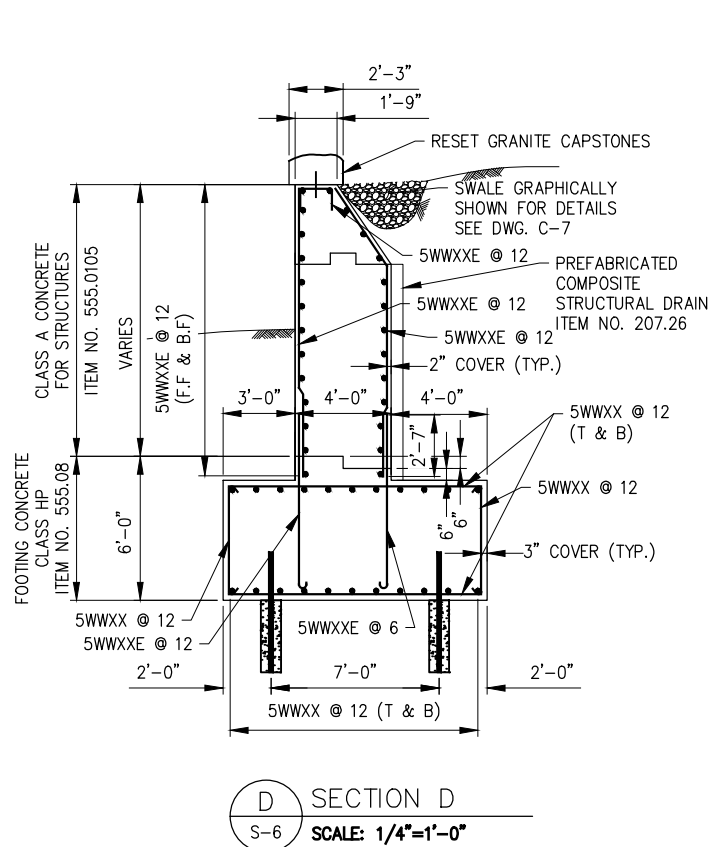
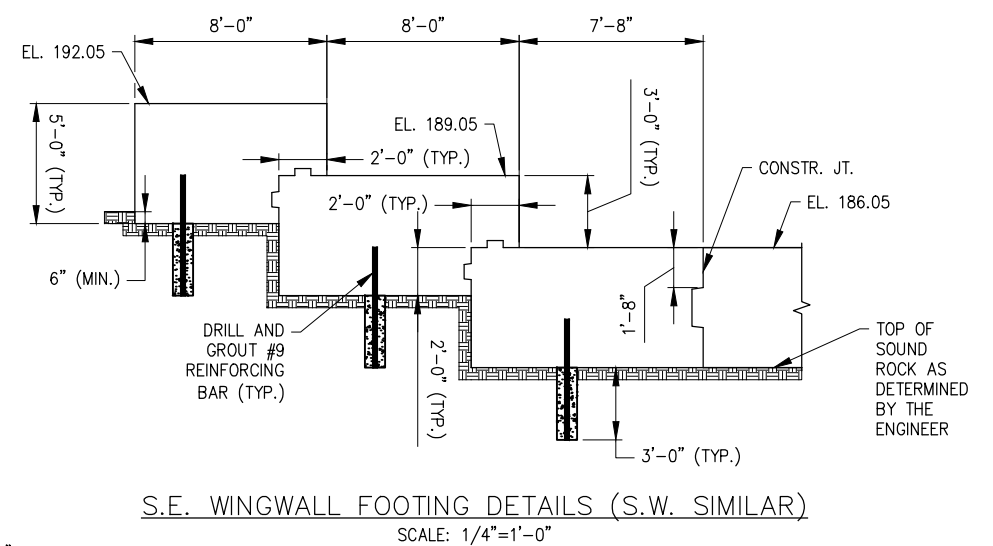
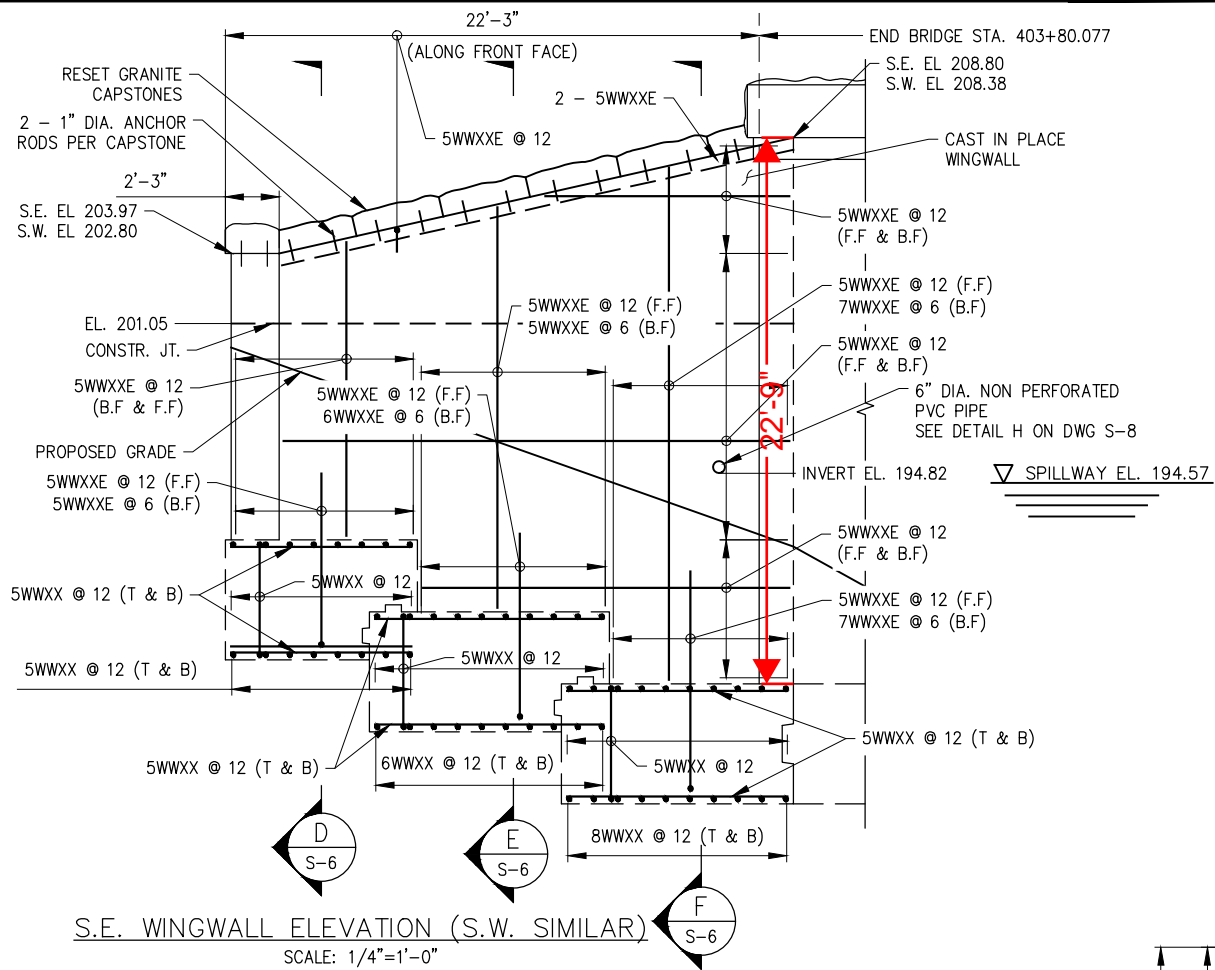
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**CAPITAL PROJECT WM-30**  
**IN WESTCHESTER COUNTY, NEW YORK**  
**CONTRACT CRO-530B**  
  
NORTH FOOTING REINFORCEMENT

DATE: 04/23/2021  
SCALE: AS NOTED  
SHEET NO:  
29 OF 46  
DRAWING NO.  
S425

All inquiries regarding this drawing(s) or project should be made to NYC Environmental Protection, Bureau of Engineering Design and Construction.

Last Saved By: D:\Data\Chalykova, Monday, May 03, 2021 and Date Plotted: Tuesday, June 01, 2021 Time: 1:18 PM  
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 Drawing Name: & Location: C:\Users\chalykova\Inprod\Arms37850\South Wingwall Details\_Plot.dwg



CONSTRUCTION AND CONTRACTION JOINTS		
C	B	T/3
3/16	1 1/2	0 TO 6"
3/8	3 1/2	6" TO 10"
3/4	5 1/2	10" AND OVER

60% DESIGN SUBMITTAL  
SUBMITTAL DATE: 4/23/2021

GRAPHIC SCALES  
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ACCORDINGLY

DESIGNED BY:  
**C. SHLYAKHOVA**

CHECKED BY:  
**O. HUNTER, P.E.**

DESIGN LEAD:  
**R. ROMAN, P.E.**

SECTION MANAGER:

DRAWN BY:  
**J. CIRCOSTA**

**HARDESTY & HANOVER, LLC**  
ENGINEERING  
1501 Broadway New York, NY 10036



ACCOUNTABLE MANAGER  
**JEFFREY A. BUSSE, PE**

PORTFOLIO MANAGER  
**PAUL COSTA, PE**

EXECUTIVE DIRECTOR  
**SEAN McANDREW, PE**

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CORONA, NEW YORK 11368  
www.nyc.gov/dep

**CAPITAL PROJECT WM-30**  
**IN WESTCHESTER COUNTY, NEW YORK**  
**CONTRACT CRO-530B**

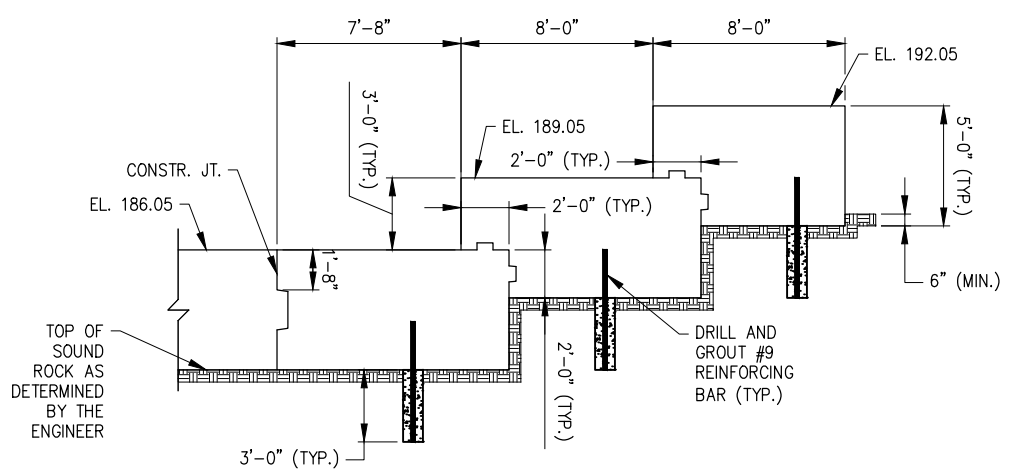
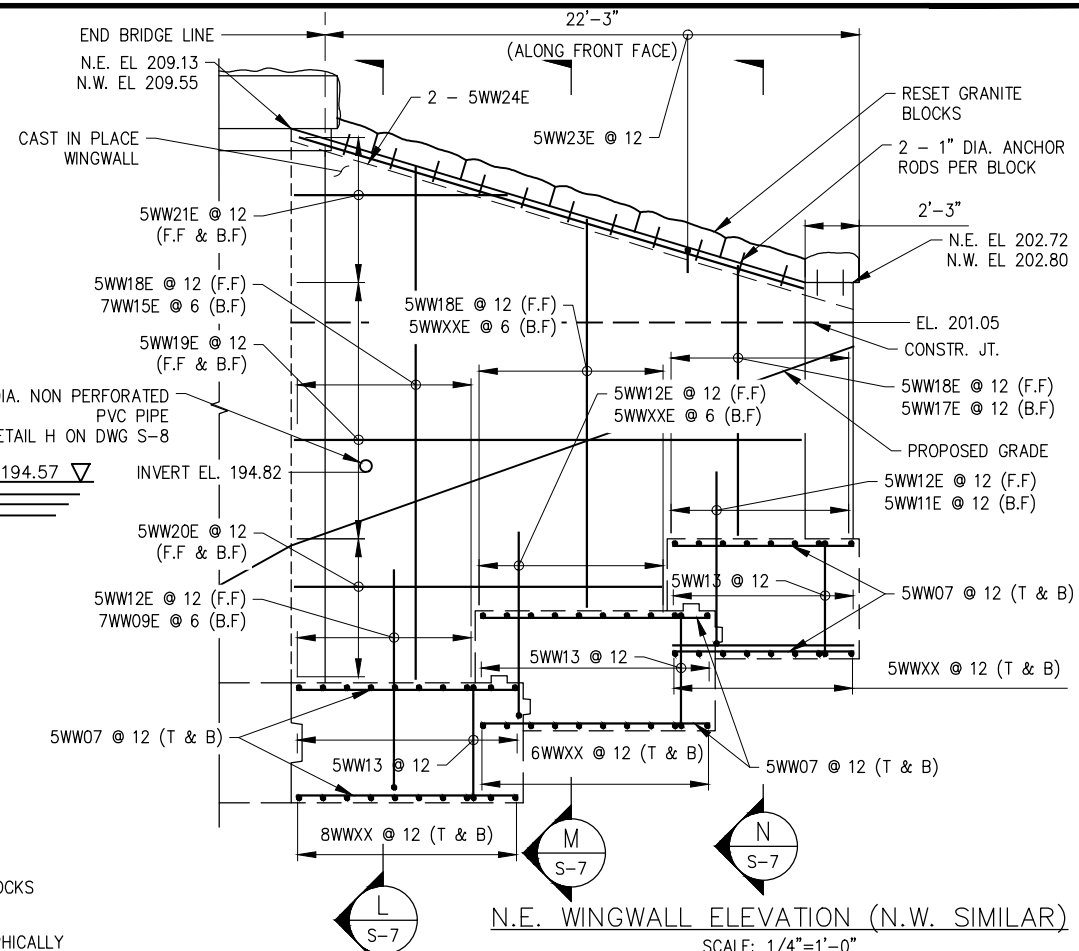
**SOUTH WINGWALL ELEVATIONS AND DETAILS**

DATE: 04/23/2021  
SCALE: 1/4"=1'-0"  
SHEET NO:  
**30** OF 46  
DRAWING NO.  
**S436**

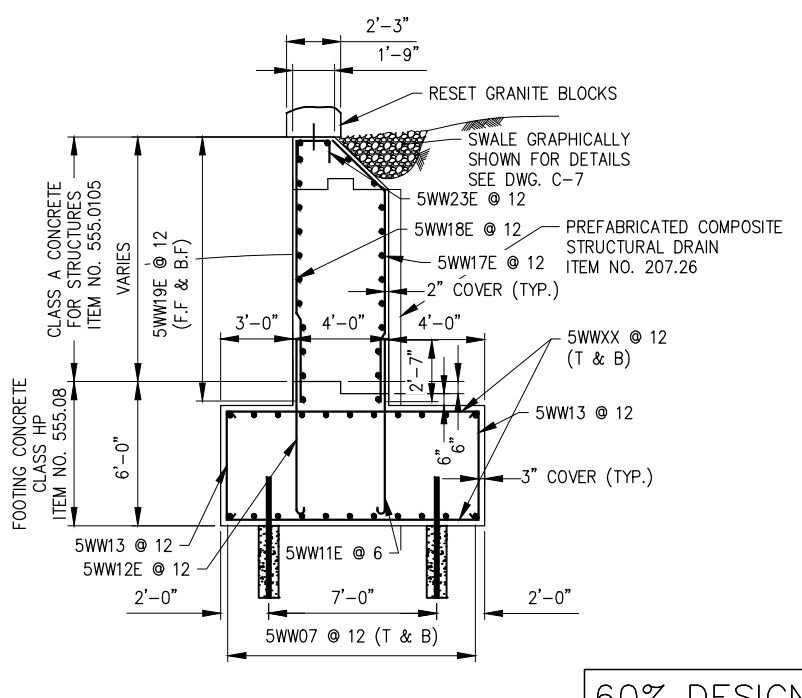
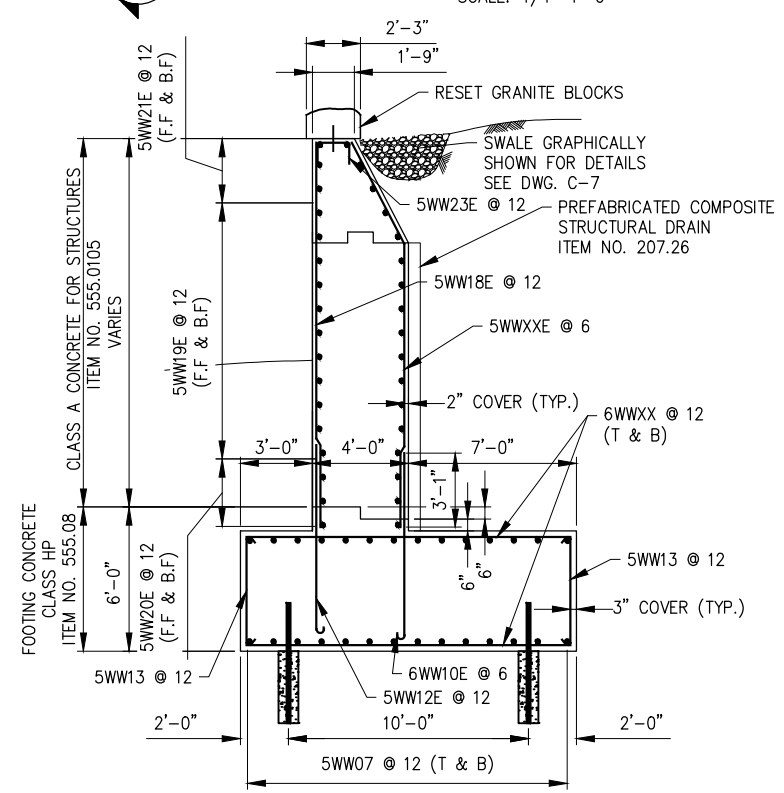
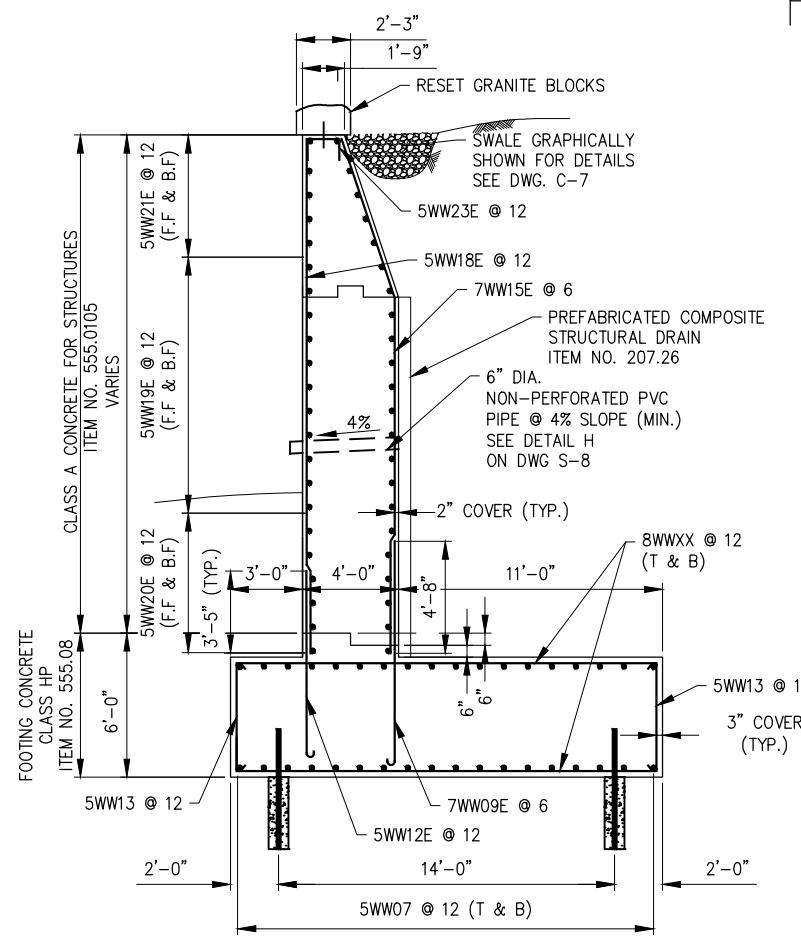
NO. DATE REVISIONS/DESCRIPTION APPR'D.

All inquiries regarding this drawing(s) or project should be made to NYC Environmental Protection, Bureau of Engineering Design and Construction.

Last Saved By: & Date: Cehlykhova, Friday, April 23, 2021, and Date Plotted: Friday, April 23, 2021, Time: 3:27 PM  
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**NOTE:**  
1. ROCK EXCAVATION IS ANTICIPATED FOR FOOTING CONSTRUCTION. WORK SHALL BE PAID UNDER UP-1 AND PERFORMED IN ACCORDANCE WITH NYCDEP SPECIFICATION SECTION 31 23 25.



**60% DESIGN SUBMITTAL**  
SUBMITTAL DATE: 4/23/2021

GRAPHIC SCALES  
CHECK BEFORE USE  
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IT IS A REDUCED PRINT SCALE  
ACCORDINGLY

NO.	DATE	REVISIONS/DESCRIPTION	APPR'D.

DESIGNED BY:  
**O. HUNTER, P.E.**

CHECKED BY:  
**R. ROMAN, P.E.**

DESIGN LEAD:  
**R. ROMAN, P.E.**

SECTION MANAGER:

DRAWN BY:  
**J. CIRCOSTA**



HARDESTY & HANOVER, LLC  
ENGINEERING  
1501 Broadway, New York, NY 10036



**NEW YORK CITY**  
Environmental Protection

ACCOUNTABLE MANAGER  
JEFFREY A. BUSSE, PE

PORTFOLIO MANAGER  
PAUL COSTA, PE

EXECUTIVE DIRECTOR  
SEAN McANDREW, PE

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CORONA, NEW YORK 11368  
www.nyc.gov/dep

**CAPITAL PROJECT WM-30**  
**IN WESTCHESTER COUNTY, NEW YORK**  
**CONTRACT CRO-530B**

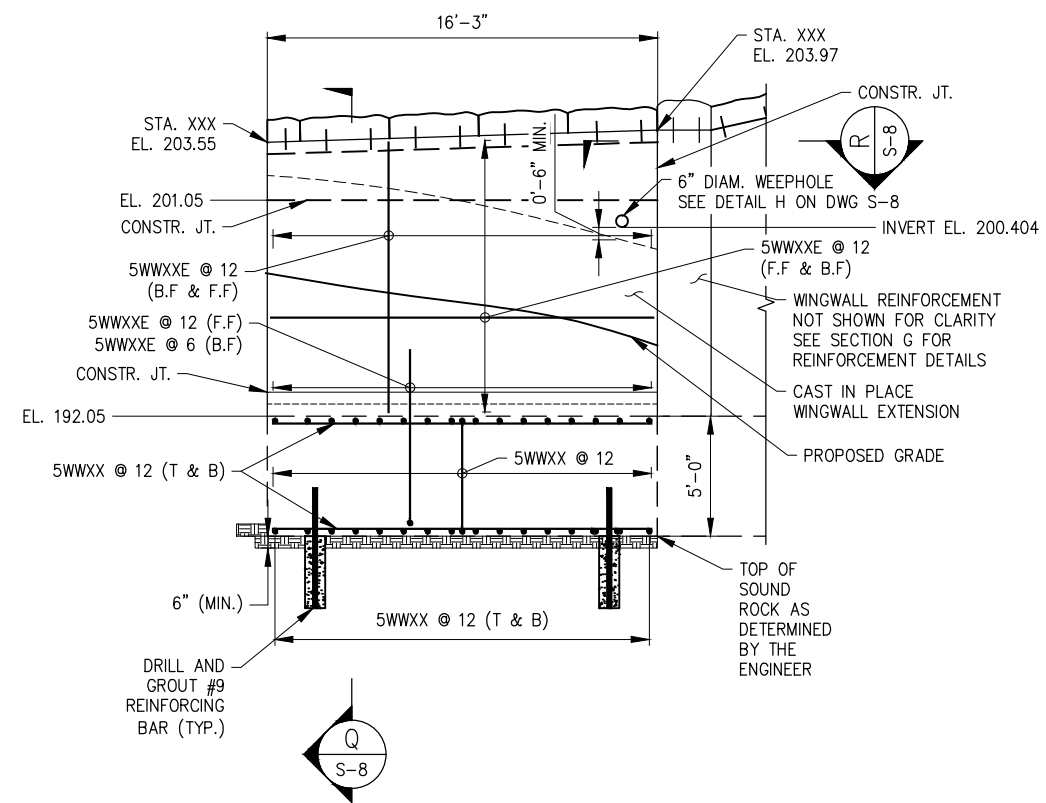
**NORTH WINGWALL ELEVATIONS AND DETAILS**

DATE: 04/23/2021  
SCALE: 1/4"=1'-0"  
SHEET NO. OF 46  
DRAWING NO. S447

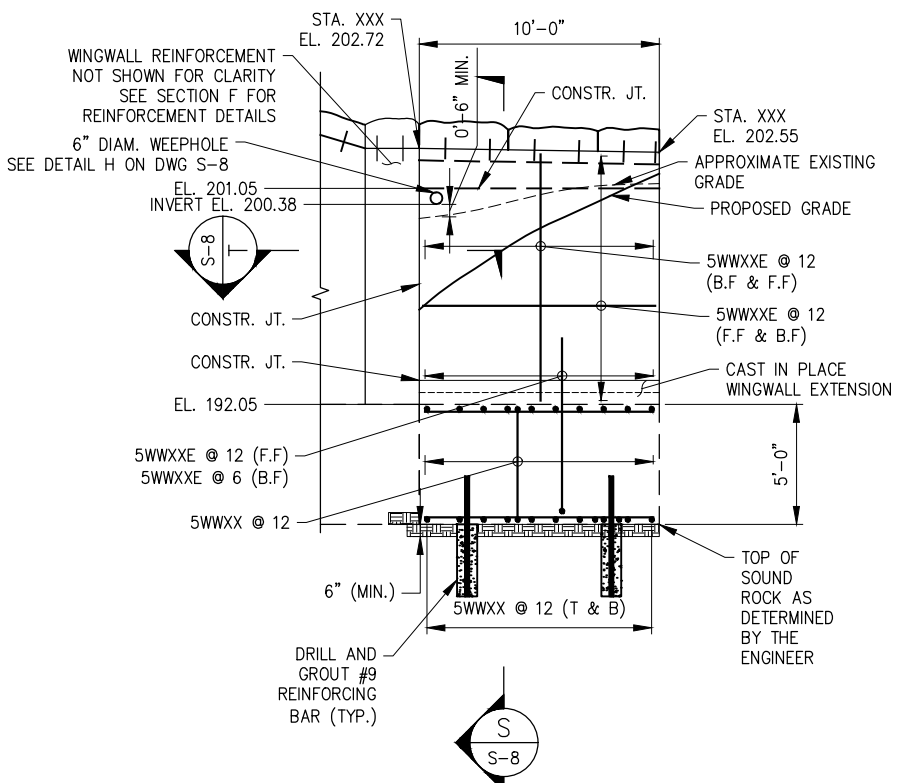
All inquiries regarding this drawing(s) or project should be made to NYC Environmental Protection, Bureau of Engineering Design and Construction.



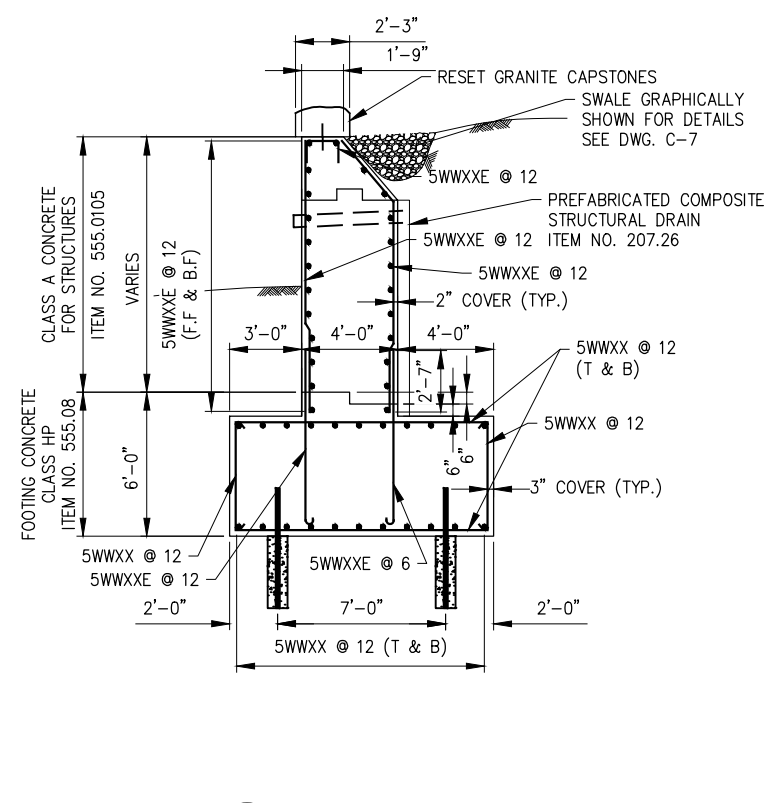
NOTES:  
 1. ROCK EXCAVATION IS ANTICIPATED FOR FOOTING CONSTRUCTION. WORK SHALL BE PAID UNDER UP-1 AND PERFORMED IN ACCORDANCE WITH NYCDEP SPECIFICATION SECTION 31 23 25.



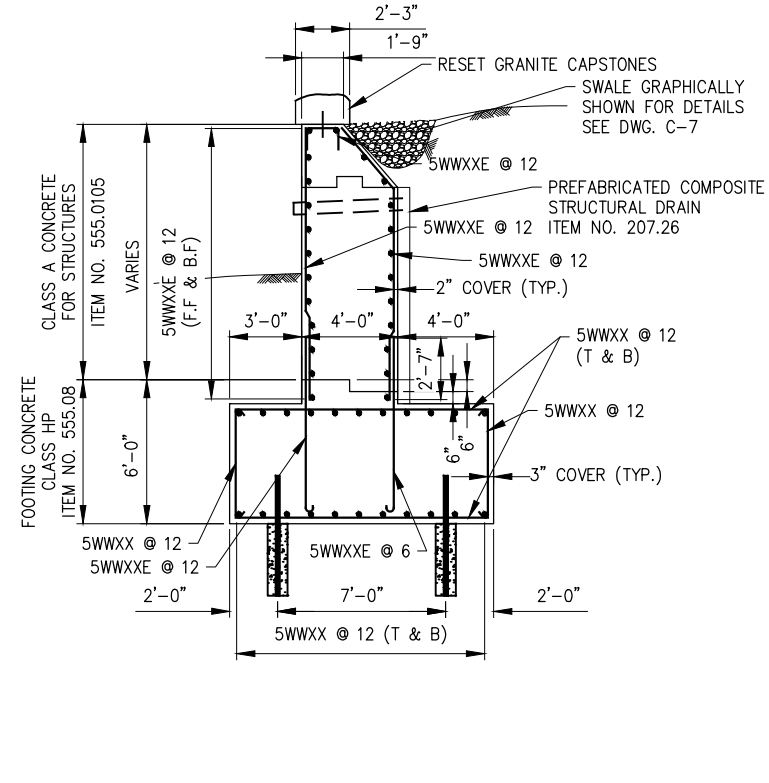
S.E. WINGWALL EXTENSION ELEVATION  
 SCALE: 1/4"=1'-0"



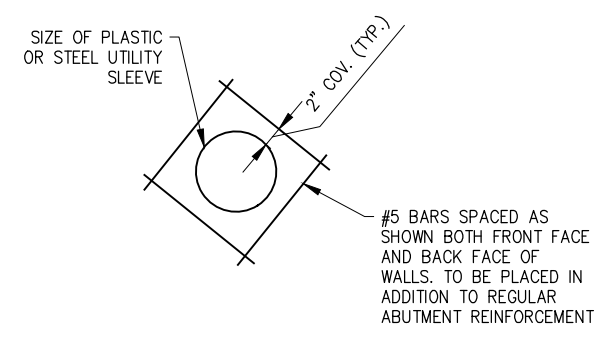
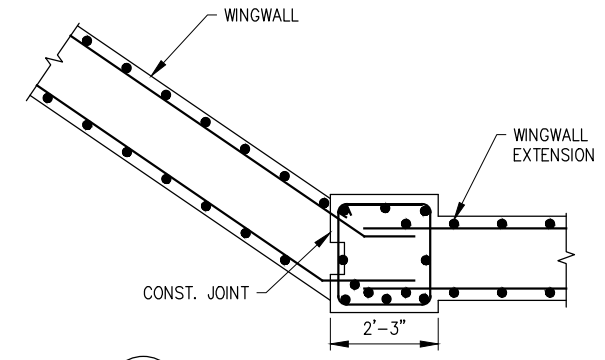
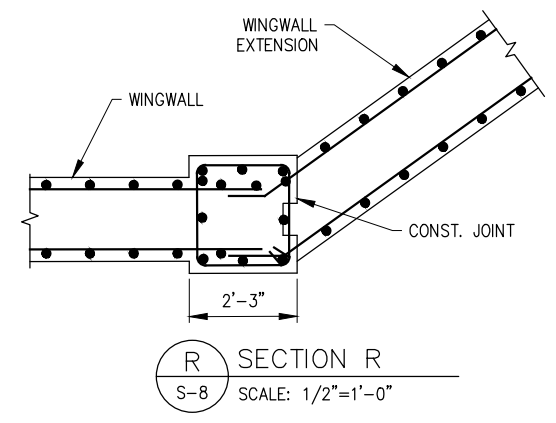
N.E. WINGWALL EXTENSION ELEVATION  
 SCALE: 1/4"=1'-0"



SECTION Q  
 S-8 SCALE: 1/4"=1'-0"



SECTION S  
 S-8 SCALE: 1/4"=1'-0"



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 SUBMITTAL DATE: 4/23/2021

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Last Saved By: & Date: Cahlykhova, Monday, May 03, 2021 and Date Plotted: Tuesday, June 01, 2021 Time: 1:18 PM  
 Paper Size: ANSI A (8.50 x 11.00 inches) Plot Scale: 0.336863 Plot Style Table: (N)\_EDC\_BW.ctb  
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NO.	DATE	REVISIONS/DESCRIPTION	APPR'D.

DESIGNED BY:  
**O. HUNTER, P.E.**  
 CHECKED BY:  
**R. ROMAN, P.E.**  
 DESIGN LEAD:  
**R. ROMAN, P.E.**  
 SECTION MANAGER:

DRAWN BY:  
**J. CIRCOSTA**  
  
 HARDESTY & HANOVER, LLC  
 ENGINEERING  
 1501 Broadway New York, NY 10036

**Environmental Protection**

ACCOUNTABLE MANAGER  
 JEFFREY A. BUSSE, PE  
 PORTFOLIO MANAGER  
 PAUL COSTA, PE  
 EXECUTIVE DIRECTOR  
 SEAN McANDREW, PE

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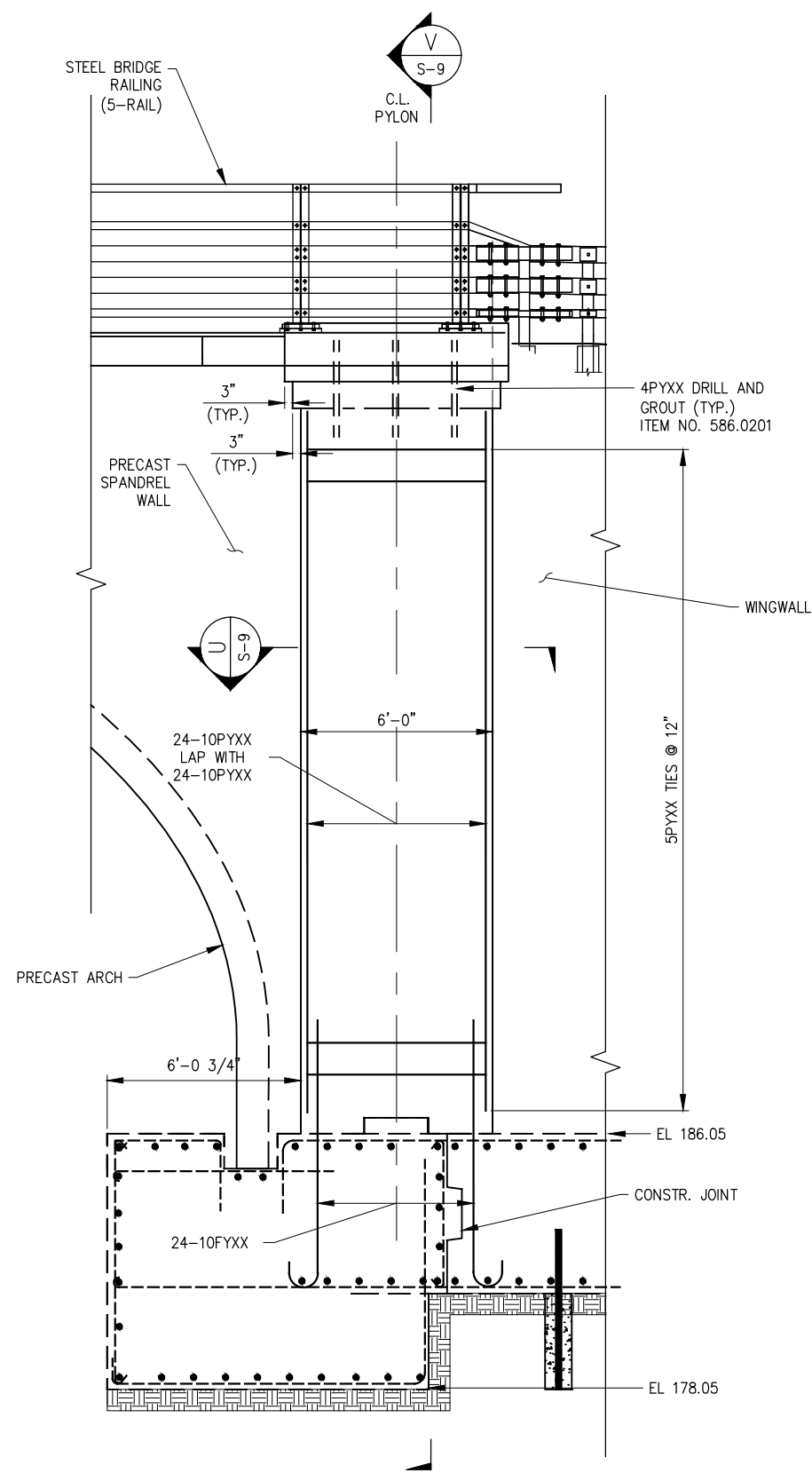
**NEW YORK CITY ENVIRONMENTAL PROTECTION**  
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 CORONA, NEW YORK 11368  
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**CAPITAL PROJECT WM-30 IN WESTCHESTER COUNTY, NEW YORK CONTRACT CRO-530B**  
 WINGWALL EXTENSIONS ELEVATIONS AND DETAILS

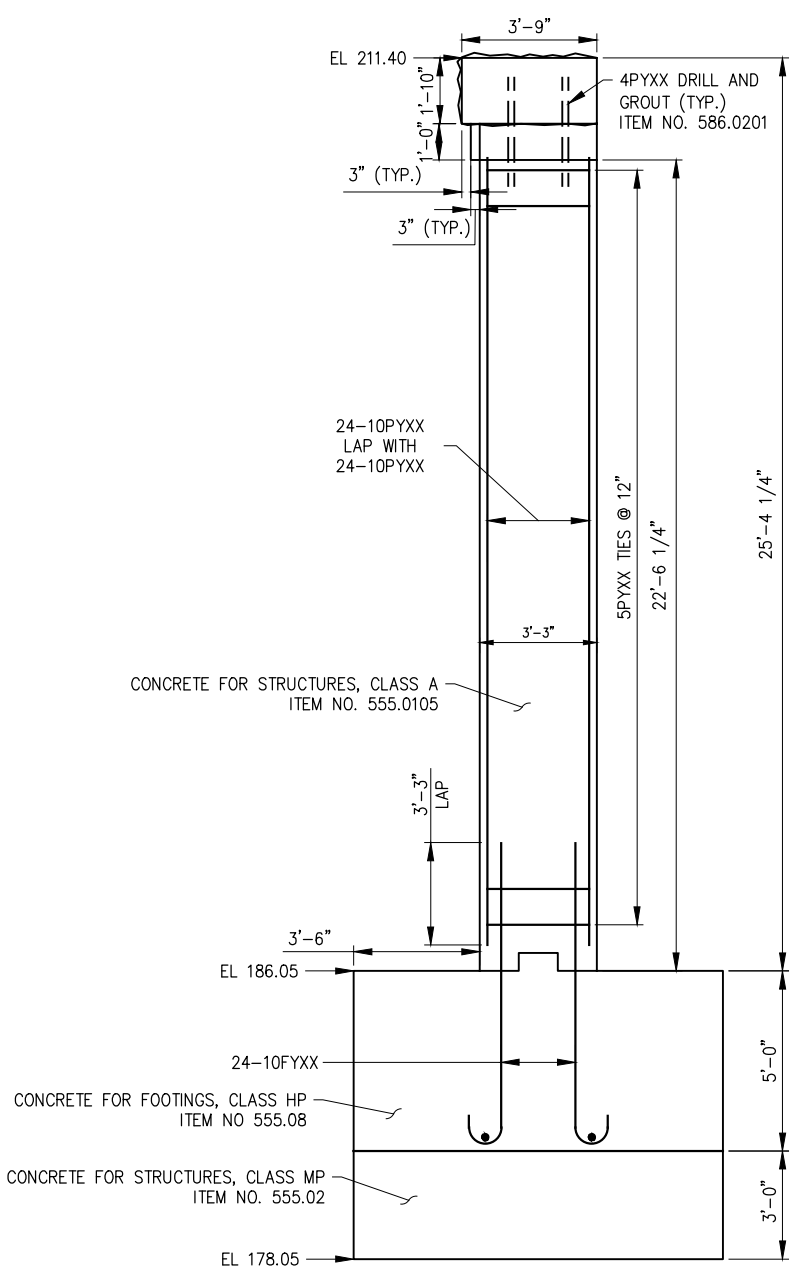
DATE: 04/23/2021  
 SCALE: 1/4"=1'-0"  
 SHEET NO: **32** OF 46  
 DRAWING NO. **S458**

All inquiries regarding this drawing(s) or project should be made to NYC Environmental Protection, Bureau of Engineering Design and Construction.

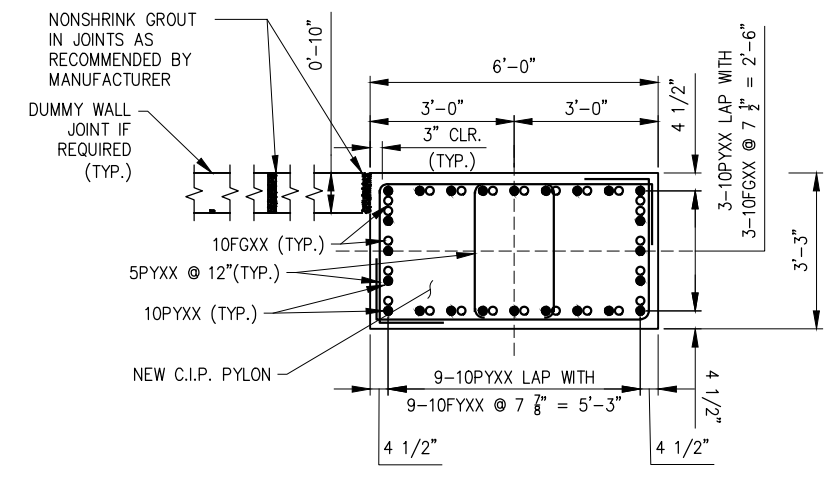
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 Drawing Name: & Location: C:\users\cshlyakhova\hprod\dms37850\PLYON SECTION & DETAILS.dwg



**PLYON ELEVATION**  
SCALE: 3/8"=1'-0"



**SECTION V**  
S-9 SCALE: 3/8"=1'-0"



**SECTION U**  
S-9 SCALE: 1/2"=1'-0"

- NOTES:**
1. MINIMUM CONCRETE COVER WILL BE NO LESS THAN 2 INCHES FOR WALLS ABOVE THE FOOTINGS AND NO LESS THAN 3 INCHES FOR REINFORCEMENT IN THE FOOTINGS.
  2. SEE DRAWING G-6 FOR STRUCTURAL NOTES ON REINFORCING STEEL, CONCRETE, AND GROUT MATERIAL.
  3. LOCATE AND DRILL 1 1/2" DIAMETER HOLES IN GRANITE CAPSTONES TO RECEIVE #4 BARS DRILLED AND GROUTED INTO PYLON.
  4. PLACE MORTAR JOINTS AS NECESSARY TO LEVEL STONES AND PROVED COPING CONTINUITY.
  5. LOWER CAPSTONES ONTO PYLONS ENSURING #4 GROUTED ANCHORS FIT INTO DRILLED RECEIVING SOCKETS IN GRANITE STONES.

**60% DESIGN SUBMITTAL**  
SUBMITTAL DATE: 4/23/2021

GRAPHIC SCALES  
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IT IS A REDUCED PRINT. SCALE  
ACCORDINGLY

NO.	DATE	REVISIONS/DESCRIPTION	APPRD.

DESIGNED BY:  
O. HUNTER, P.E.  
CHECKED BY:  
R. ROMAN, P.E.  
DESIGN LEAD:  
O. HUNTER, P.E.  
SECTION MANAGER:

DRAWN BY:  
J. CIRCOSTA  
  
HARDESTY & HANOVER, LLC  
ENGINEERING  
1501 Broadway New York, NY 10036



ACCOUNTABLE MANAGER  
JEFFREY A. BUSSE, PE  
PORTFOLIO MANAGER  
PAUL COSTA, PE  
EXECUTIVE DIRECTOR  
SEAN McANDREW, PE

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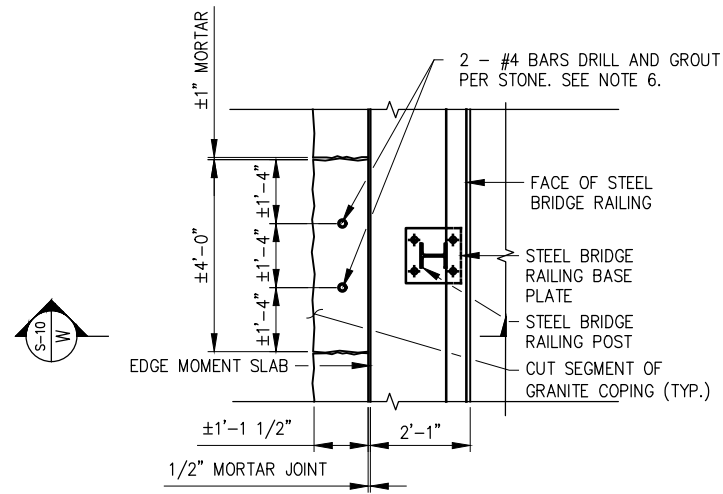
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**ENVIRONMENTAL PROTECTION**  
BUREAU OF ENGINEERING DESIGN & CONSTRUCTION  
96-05 HORACE HARDING EXPRESSWAY 5th FLOOR  
CORONA, NEW YORK 11368  
www.nyc.gov/dep

**CAPITAL PROJECT WM-30**  
**IN WESTCHESTER COUNTY, NEW YORK**  
**CONTRACT CRO-530B**  
  
**PLYON SECTION & DETAILS**

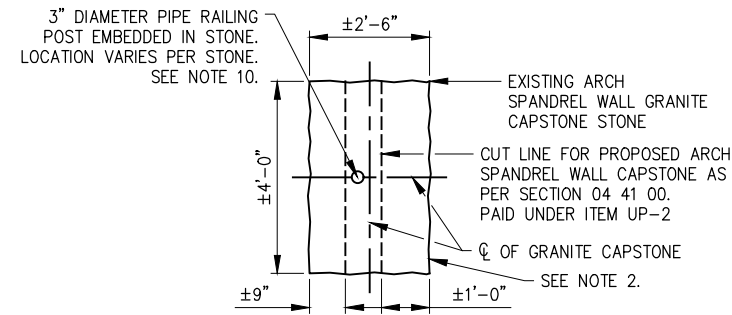
DATE: 04/23/2021  
SCALE: AS NOTED  
SHEET NO:  
30 OF 46  
DRAWING NO.  
**369**

All inquiries regarding this drawing(s) or project should be made to NYC Environmental Protection, Bureau of Engineering Design and Construction.

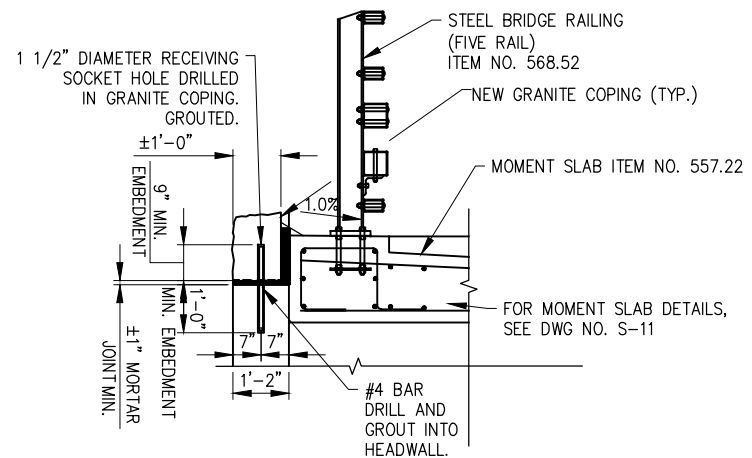
Last Saved By & Date: Cshlyakhtova, Monday, May 03, 2021 and Date Plotted: Tuesday, June 01, 2021 Time: 1:17 PM  
 Paper Size: ANSI A (8.50 x 11.00 Inches) Plot Scale: 0.388663 Plot Style Table: (N)\_BDDC\_BW.ctb  
 Drawing Name: C:\users\cshlyakhtova\hprod\dms37850\GRANITE STONE DETAILS\_PLOT.dwg



GRANITE CAPSTONE PLAN  
SCALE: 1/2"=1'-0"



GRANITE CAPSTONE CUTTING PLAN  
SCALE: 1/2"=1'-0"



SECTION W  
SCALE: 1/2"=1'-0"

DEMOLITION NOTES:

1. THE CONTRACTOR SHALL PERFORM ALL WORK WITH CARE AND TAKE ALL NECESSARY PRECAUTIONS SO THAT ANY MATERIALS WHICH ARE TO BE REUSED WILL NOT BE DAMAGED. IF THE CONTRACTOR DAMAGES ANY MATERIALS WHICH ARE TO BE REUSED, THE DAMAGED MATERIALS SHALL BE REPAIRED OR REPLACED IN A MANNER SATISFACTORY TO THE ENGINEER AT THE EXPENSE OF THE CONTRACTOR.

SUGGESTED DEMOLITION AND RESTORATION PROCEDURE:

1. REMOVE EXISTING STEEL BRIDGE RAILING FROM EXISTING GRANITE COPING AND CLEAN ACCORDING TO SPECIFICATION 02 83 05 - LEAD MANAGEMENT.
2. REMOVE EXISTING MORTAR FROM GRANITE STONES WITH MEANS AND METHODS APPROVED BY THE RESIDENT ENGINEER
3. REMOVE GRANITE CAP STONES AND STORE FOR LATER RECONSTRUCTION. DO NOT DAMAGE OR DISCARD GRANITE COPING.
4. CUT GRANITE COPING STONES TO THE APPROXIMATE LIMITS SHOWN. DO NOT DISCARD EITHER SEGMENT OF CUT STONES AND SAVE FOR REUSE. WORK SHALL BE PERFORMED IN ACCORDANCE WITH NYCDEP SPECIFICATION 04 41 00 AND PAID UNDER UP-2.
5. CLEAN AND RESET STONES IN ACCORDANCE WITH NYCDEP SPECIFICATION 04 41 00 AND PAID UNDER UP-2.
6. DRILL AND GROUT #4 BARS IN THE PRECAST ARCH SPANDREL WALL AS SHOWN AS PER THE MANUFACTURER'S RECOMMENDATION. PRIOR TO DRILLING, EXISTING SPANDREL WALL REINFORCEMENT SHALL BE LOCATED WITH A PACHOMETER OR OTHER MEANS TO AVOID DAMAGING EXISTING REINFORCEMENT. DRILLED AND GROUTED BARS SHALL BE HILTI HIT-RE 500 OR APPROVED EQUAL. WORK SHALL BE PERFORMED IN ACCORDANCE WITH NYCDEP SPECIFICATION 04 41 00 AND PAID UNDER UP-2.
7. LOCATE AND DRILL 1 1/2" DIAMETER HOLES IN GRANITE CAPSTONES TO RECEIVE #4 BARS DRILLED AND GROUTED INTO SPANDREL WALL. HOLES IN CAPSTONES TO BE GROUTED.
8. PLACE MORTAR JOINTS USING APPROVED MATERIAL MIX AS NECESSARY TO LEVEL STONES AND PROVIDE COPING CONTINUITY.
9. LOWER COPING STONE ONTO SPANDREL WALL ENSURING #4 GROUTED ANCHORS FIT INTO DRILLED RECEIVING SOCKETS IN GRANITE CAPSTONES.
10. THE CONTRACTOR SHALL REMOVE ONLY EXISTING LEAD PAINT RESIDUE IN ACCORDANCE WITH SPECIFICATION 02 83 05 - LEAD MANAGEMENT, PRIOR TO MOVING THE STONES TO THE SATISFACTION OF THE ENGINEER.

60% DESIGN SUBMITTAL

SUBMITTAL DATE: 4/23/2021

GRAPHIC SCALES  
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ACCORDINGLY

NO.	DATE	REVISIONS/DESCRIPTION	APPRD.

DESIGNED BY:  
O. HUNTER, P.E.

CHECKED BY:  
R. ROMAN, P.E.

DESIGN LEAD:  
O. HUNTER, P.E.

SECTION MANAGER:

DRAWN BY:  
J. CIRCOSTA




ACCOUNTABLE MANAGER  
JEFFREY A. BUSSE, PE

PORTFOLIO MANAGER  
PAUL COSTA, PE

EXECUTIVE DIRECTOR  
SEAN McANDREW, PE

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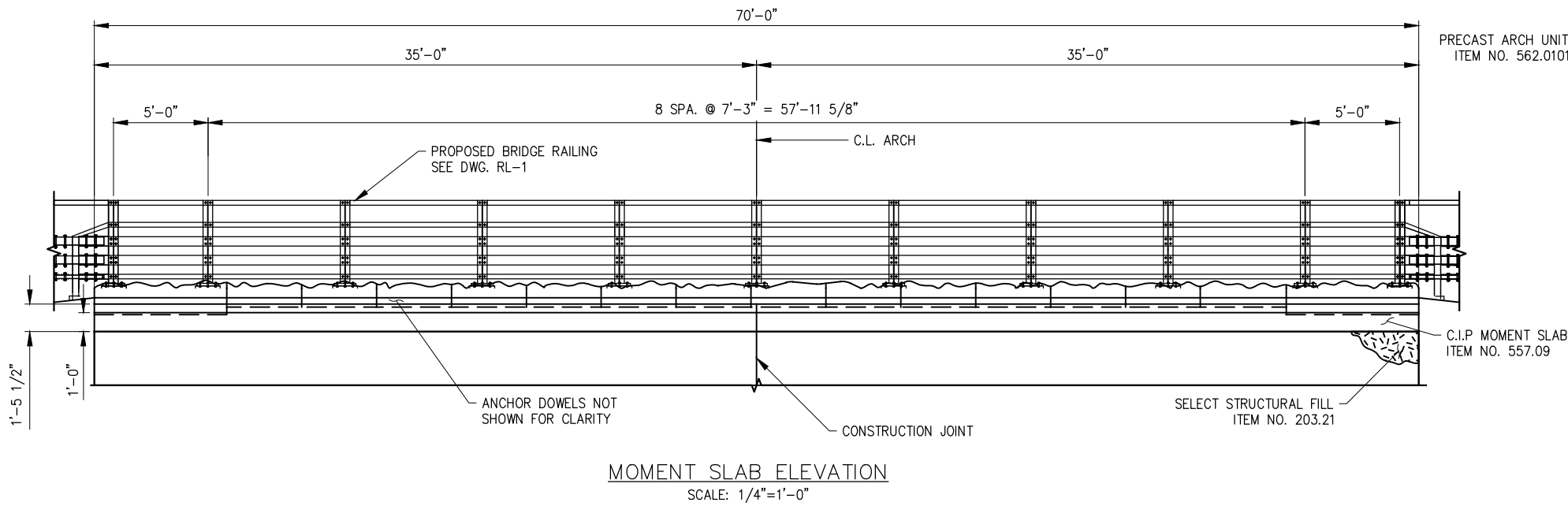
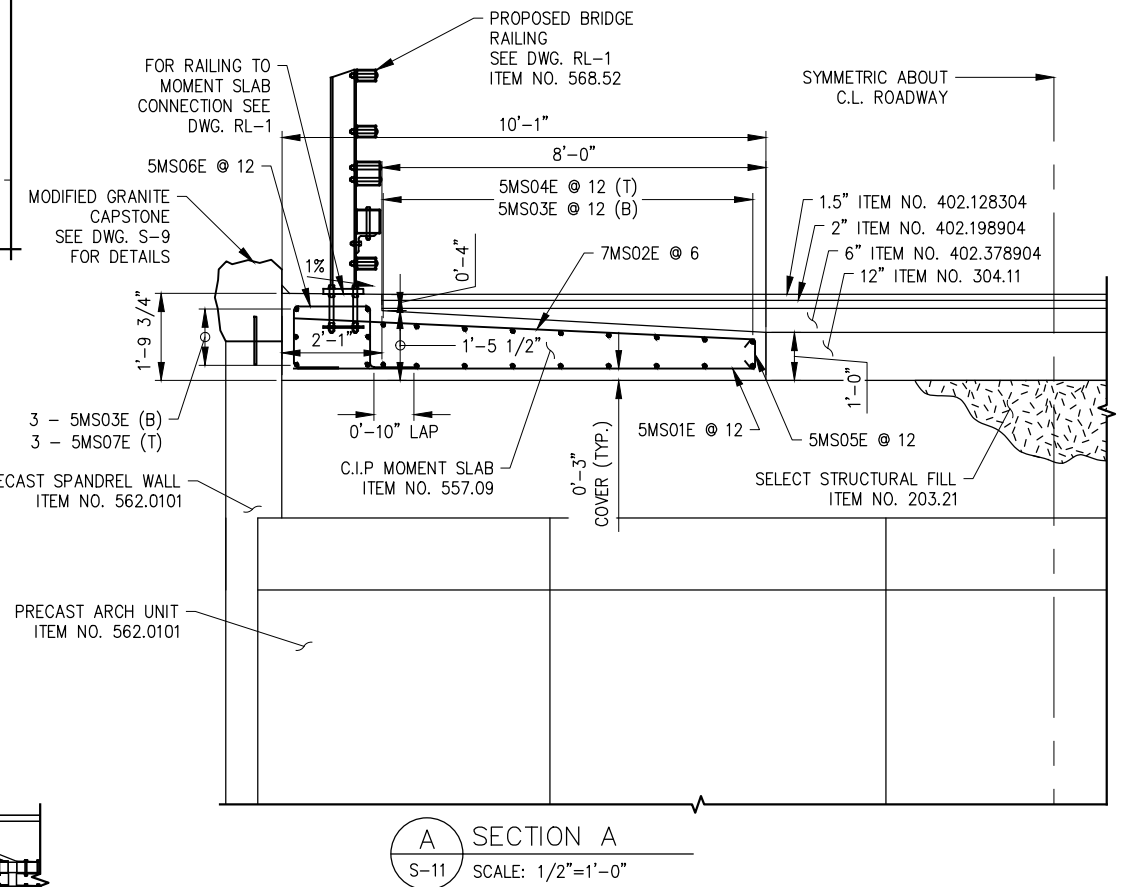
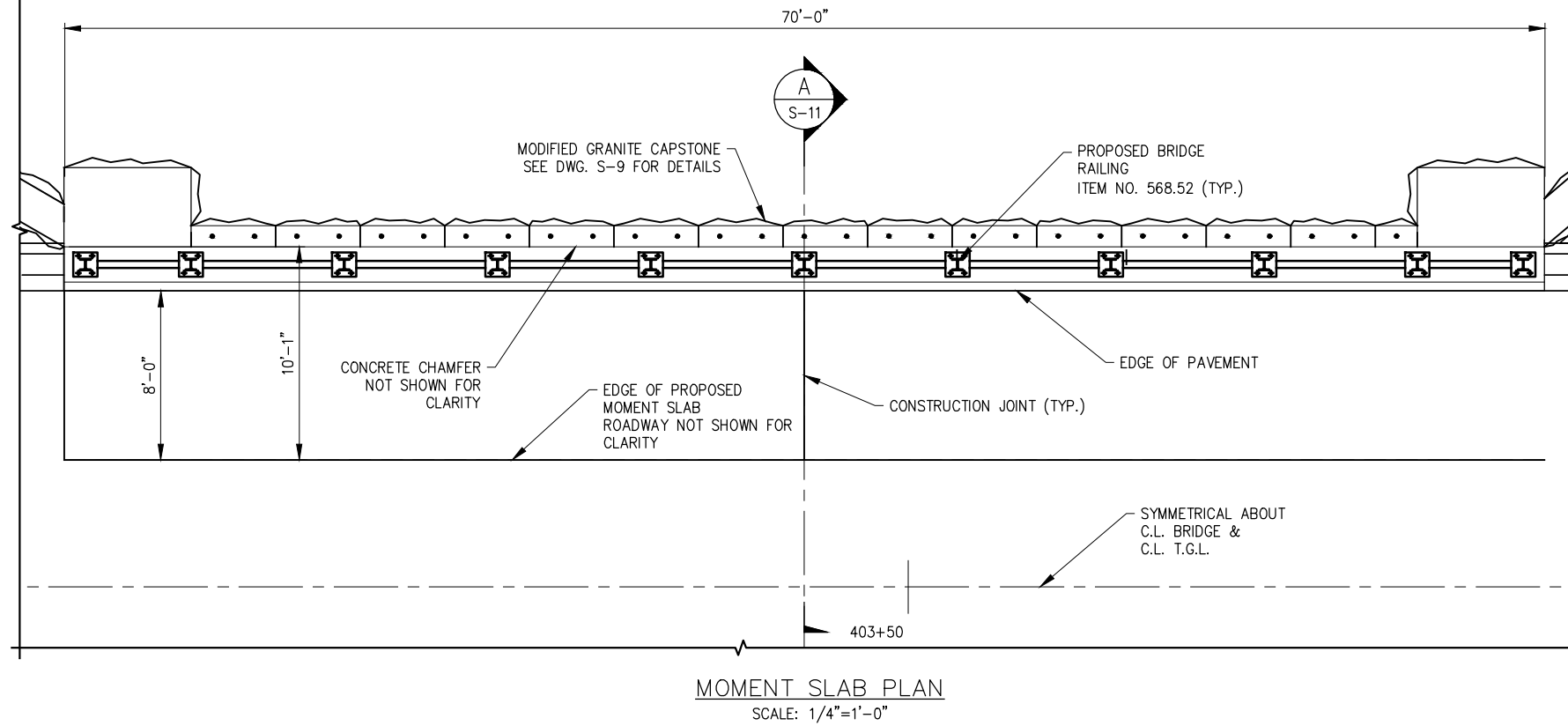
**CAPITAL PROJECT WM-30**  
**IN WESTCHESTER COUNTY, NEW YORK**  
**CONTRACT CRO-530B**

PROPOSED GRANITE CAPSTONE  
AND SPANDREL WALL

DATE: 04/23/2021  
SCALE: AS NOTED  
SHEET NO:  
30 OF 46  
DRAWING NO.  
S-10

All inquiries regarding this drawing(s) or project should be made to NYC Environmental Protection, Bureau of Engineering Design and Construction.

NOTE:  
1. FOR RAILING DETAILS SEE DWG. RL-1



60% DESIGN SUBMITTAL  
SUBMITTAL DATE: 4/23/2021

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Paper Size: ANSI A (8.50 x 11.00 inches) Plot Scale: 0.336863 Plot Style Table: (N) BEND\_BW.ctb  
Drawing Name: & Location: C:\Users\Cahlykhova\Inprod\Arms37850\PAR-TIST CHURCH MOMENT SLAB DETAILS.dwg

NO.	DATE	REVISIONS/DESCRIPTION	APPR'D.

DESIGNED BY:  
C. SHLYAKHOVA  
CHECKED BY:  
O. HUNTER, P.E.  
DESIGN LEAD:  
R. ROMAN, P.E.  
SECTION MANAGER:

DRAWN BY:  
J. CIRCOSTA  
  
HARDESTY & HANOVER, LLC  
ENGINEERING  
1501 Broadway New York, NY 10036



ACCOUNTABLE MANAGER  
JEFFREY A. BUSSE, PE  
PORTFOLIO MANAGER  
PAUL COSTA, PE  
EXECUTIVE DIRECTOR  
SEAN McANDREW, PE

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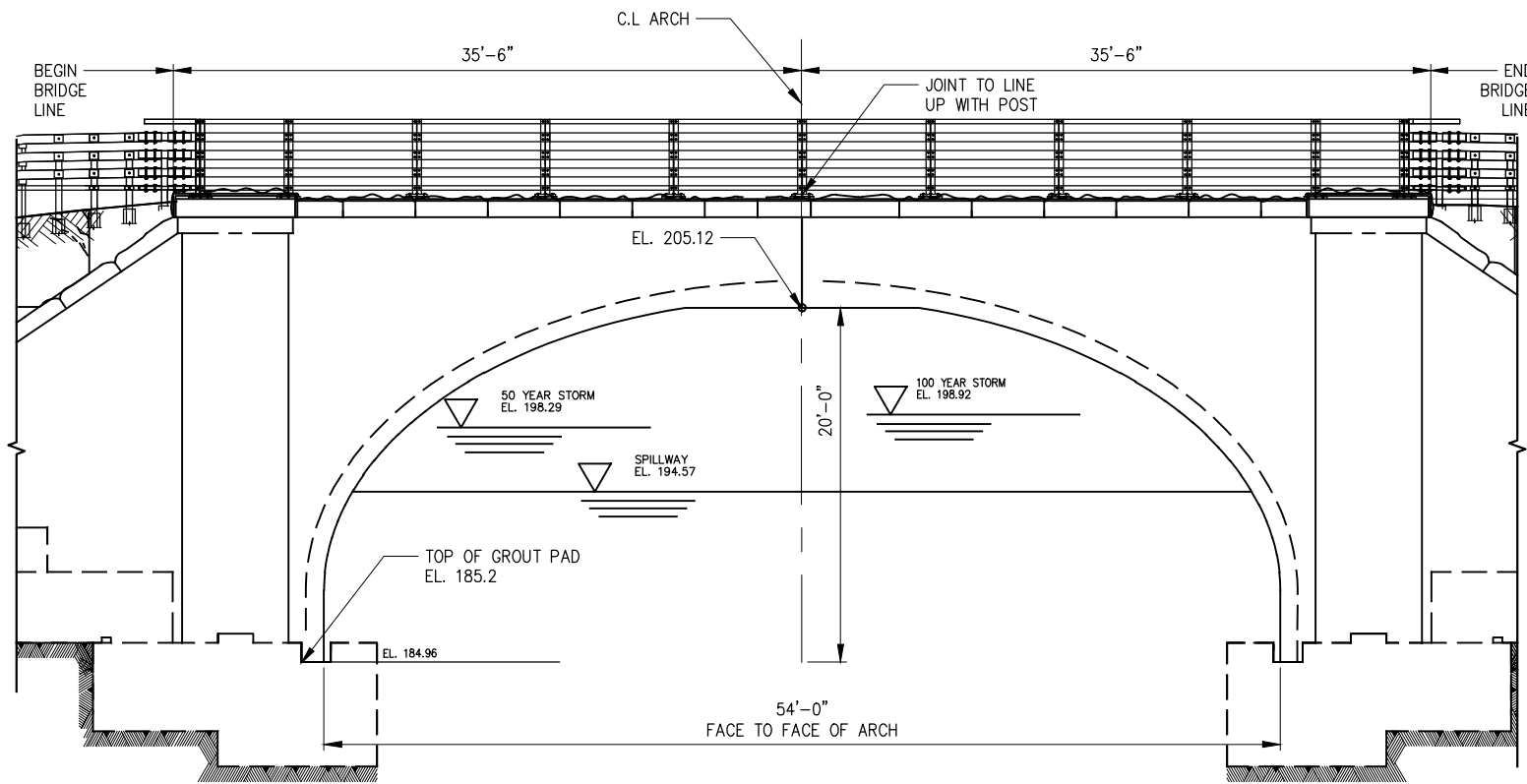
**NEW YORK CITY**  
**ENVIRONMENTAL PROTECTION**  
BUREAU OF ENGINEERING DESIGN & CONSTRUCTION  
96-05 HORACE HARDING EXPRESSWAY 5th FLOOR  
CORONA, NEW YORK 11368  
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**CAPITAL PROJECT WM-30**  
**IN WESTCHESTER COUNTY, NEW YORK**  
**CONTRACT CRO-530B**  
  
MOMENT SLAB DETAILS

DATE: 04/23/2021  
SCALE: AS NOTED  
SHEET NO:  
35 OF 46  
DRAWING NO.  
S4811

All inquiries regarding this drawing(s) or project should be made to NYC Environmental Protection, Bureau of Engineering Design and Construction.

Last Saved By & Date: Cshlyakhova, Friday, April 23, 2021 and Date Plotted: Monday, July 19, 2021 Time: 1:07 PM  
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 Drawing Name: C:\users\cshlyakhova\hprod\dms37850\PRECAST ARCH DETAILS.dwg



GEOTECHNICAL DESIGN DATA	
MAX SERVICE BEARING RESISTANCE, KSF	16
SOIL UNIT WT. KIPS/CF	0.125
FRICTION ANGLE, DEG	32
COEFFICIENT OF SLIDING FRICTION	1

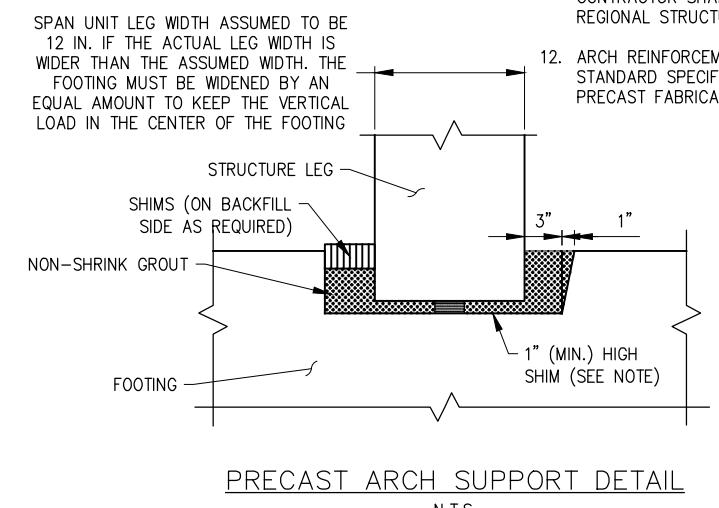
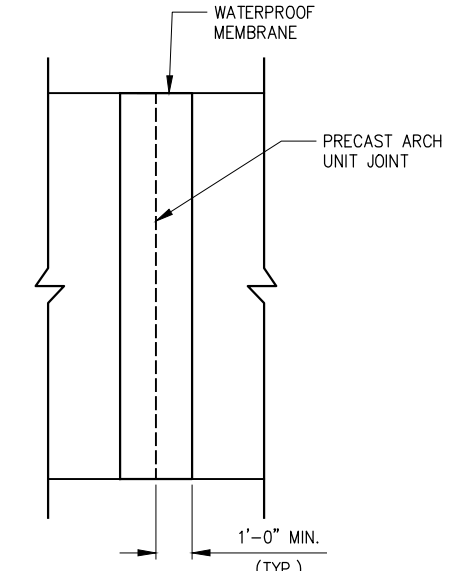
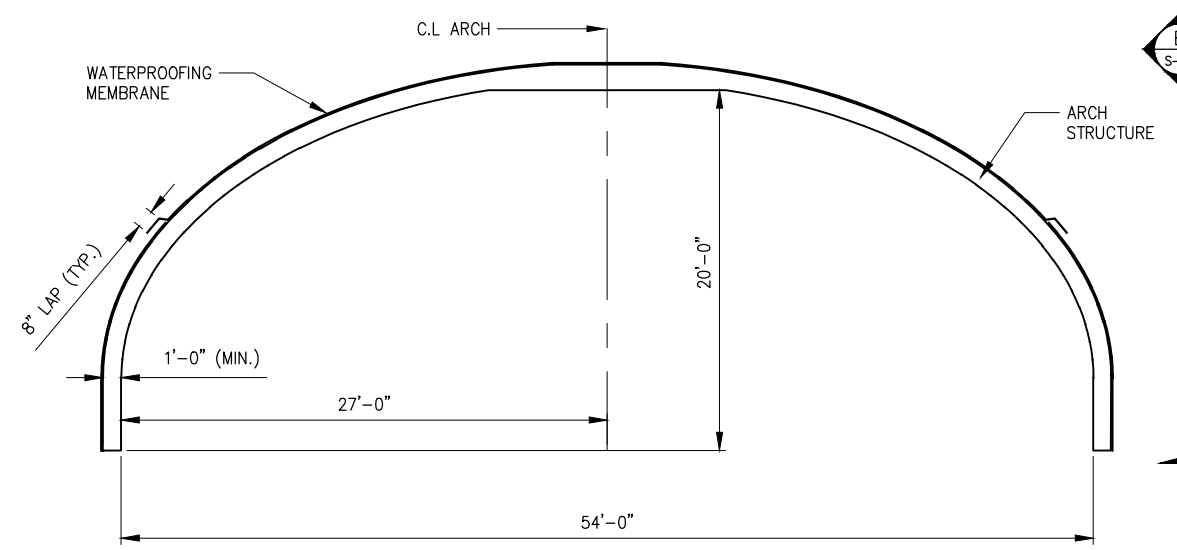
ASSUMED FOOTING LOADS	
VERTICAL, KIPS/FT	46.1
HORIZONTAL, KIPS/FT	3.5

LOAD RATING (LFD)		
	HS	TONS
INVENTORY		
OPERATING		

LRFR RATING FACTORS		
	HL-93	TONS
INVENTORY		
OPERATING		

- NOTES:**
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING DESIGN SUBMISSIONS FOR ALL PRECAST COMPONENTS, INCLUDING COMPLETE SET OF WORKING DRAWINGS, A COMPLETE SET OF DESIGN AND LOAD RATING CALCULATIONS, AND DETAILED INSTALLATION PROCEDURE. THE DRAWINGS AND THE DESIGN CALCULATIONS SHALL BE STAMPED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN NEW YORK STATE. FABRICATION REQUIREMENTS ARE CONTAINED IN SECTION 562 OF THE STANDARD SPECIFICATIONS.
  - THE LENGTH OF EACH STRUCTURE SEGMENT SHALL BE DETERMINED BY THE CONTRACTOR. IF THE STAGE CONSTRUCTION IS EMPLOYED, THE PRECAST THREE SIDED STRUCTURE SEGMENT LENGTH MUST BE COMPATIBLE WITH STAGING REQUIREMENTS.
  - THE ASSUMED VERTICAL AND HORIZONTAL REACTIONS ARE IN THE ASSUMED FOOTING LOADS TABLE ON THIS SHEET. THE CONTRACTOR MUST SUBMIT A REVISED FOUNDATION DESIGN TO THE ENGINEER IN CHARGE IF THE ACTUAL LOADS OF THE SUPPLIED STRUCTURE EXCEED THESE ASSUMED VALUES. THE REVISED DESIGN SHALL BE SUBMITTED AT THE SAME TIME THE DESIGN CALCULATIONS FOR THE THREE-SIDED STRUCTURE ARE SUBMITTED FOR APPROVAL.
  - FOOTING LOADS IN EXCESS OF THE ASSUMED FOOTING LOADS TABLE REQUIRE THAT THE FOOTING DESIGN BE VERIFIED BY THE CONTRACTOR'S LICENSED ENGINEER.
  - DETAILS ON THE DRAWINGS LABELED AS "NOT TO SCALE" ARE INTENTIONALLY DRAWN NOT TO SCALE FOR VISUAL CLARITY. ALL OTHER DETAILS, FOR WHICH NO SCALE IS SHOWN, ARE DRAWN PROPORTIONAL AND ARE FULLY DIMENSIONED.
  - THE PRECAST CONCRETE SPAN UNIT SHOWN IS FOR ILLUSTRATION PURPOSES ONLY. THE SUPPLIED PRECAST STRUCTURE SHALL MAINTAIN THE SPAN CLEAR WIDTH AND HEIGHT INDICATED IN THE CONTRACT PLANS.
  - WATERPROOFING MEMBRANE SHALL BE SHEET APPLIED MEMBRANE FROM NYSDOT APPROVED LIST AS COVERED IN SECTION 717-02 OF THE SPECIFICATION. THE COST (FURNISH AND INSTALL) SHALL BE INCLUDED IN THE COST OF THE PRECAST ARCH, ITEM NO. 562.0101.
  - THE FINAL FOUNDATION LOCATION SHALL BE DEPENDENT ON THE WIDTH OF THE ACTUAL ARCH USED. THE CONTRACTOR SHALL ADJUST THE ABUTMENT LOCATION ACCORDINGLY TO ACCOMMODATE THE ACTUAL ARCH SPAN USED WHILE MAINTAINING THE SPAN CLEAR WIDTH AND HEIGHT INDICATED IN THE CONTRACT PLANS.
  - ARCH SHAPE ASSUMED BEBO E54/T6 FOR PURPOSE OF HYDRAULIC FLOW ANALYSIS. CONTRACTOR SHALL DEMONSTRATE THAT THE PROPOSED ARCH PROVIDES EQUIVALENT HYDRAULIC FLOW PERFORMANCE.
  - ADDITIONAL SHIMS ARE ALLOWED AT THE CONTRACTOR'S OPTION. LEG EMBEDMENT INTO FOOTINGS SHALL BE A MINIMUM OF 3". GROUT SHALL MEET THE REQUIREMENTS OF STANDARD SPEC 701-05 OR 701-06.
  - THE LOAD RATING TABLE SHALL BE FILLED IN BY THE EIC FROM INFORMATION RECEIVED FROM THE CONTRACTOR AFTER REVIEW AND APPROVAL BY THE DCES. THE SUBMITTED LOAD RATING INFORMATION SHALL BE IN ACCORDANCE WITH THE AASHTO "MANUAL FOR BRIDGE EVALUATION" WITH ALL INTERIM PROVISIONS IN EFFECT. THE CONTRACTOR SHALL PROVIDE THE LOAD RATINGS IN BOTH LOAD FACTOR RATING (LFD) METHOD AND THE LOAD AND RESISTANCE FACTOR RATING (LRFR) METHOD. THE CONTRACTOR SHALL ALSO PROVIDE ALL LOAD RATING COMPUTATIONS TO THE REGIONAL STRUCTURES ENGINEER.
  - ARCH REINFORCEMENT SHALL BE EPOXY COATED IN ACCORDANCE WITH NYSDOT STANDARD SPECIFICATION 709-04, UNLESS OTHERWISE RECOMMENDED BY THE PRECAST FABRICATOR AND APPROVED BY NYCDEP.



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 SUBMITTAL DATE: 4/23/2021

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NO.	DATE	REVISIONS/DESCRIPTION	APPR'D.

DESIGNED BY: J. CIRCOSTA	DRAWN BY: J. CIRCOSTA
CHECKED BY: R. ROMAN, PE	 HARDESTY & HANOVER, LLC ENGINEERING 1501 Broadway New York, NY 10036
DESIGN LEAD: O. HUNTER, PE	
SECTION MANAGER:	

**NEW YORK CITY**  
**ENVIRONMENTAL PROTECTION**  
 BUREAU OF ENGINEERING DESIGN & CONSTRUCTION  
 96-05 HORACE HARDING EXPRESSWAY 5th FLOOR  
 CORONA, NEW YORK 11368  
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ACCOUNTABLE MANAGER JEFFREY A. BUSSE, PE
PORTFOLIO MANAGER PAUL COSTA, PE
EXECUTIVE DIRECTOR SEAN McANDREW, PE

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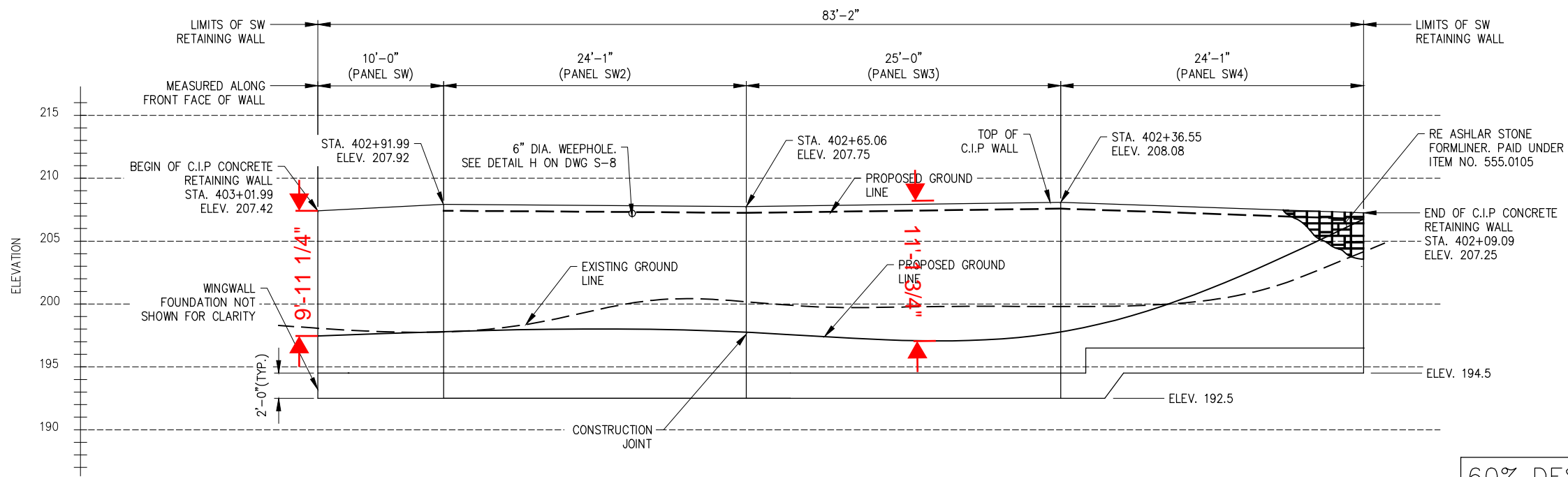
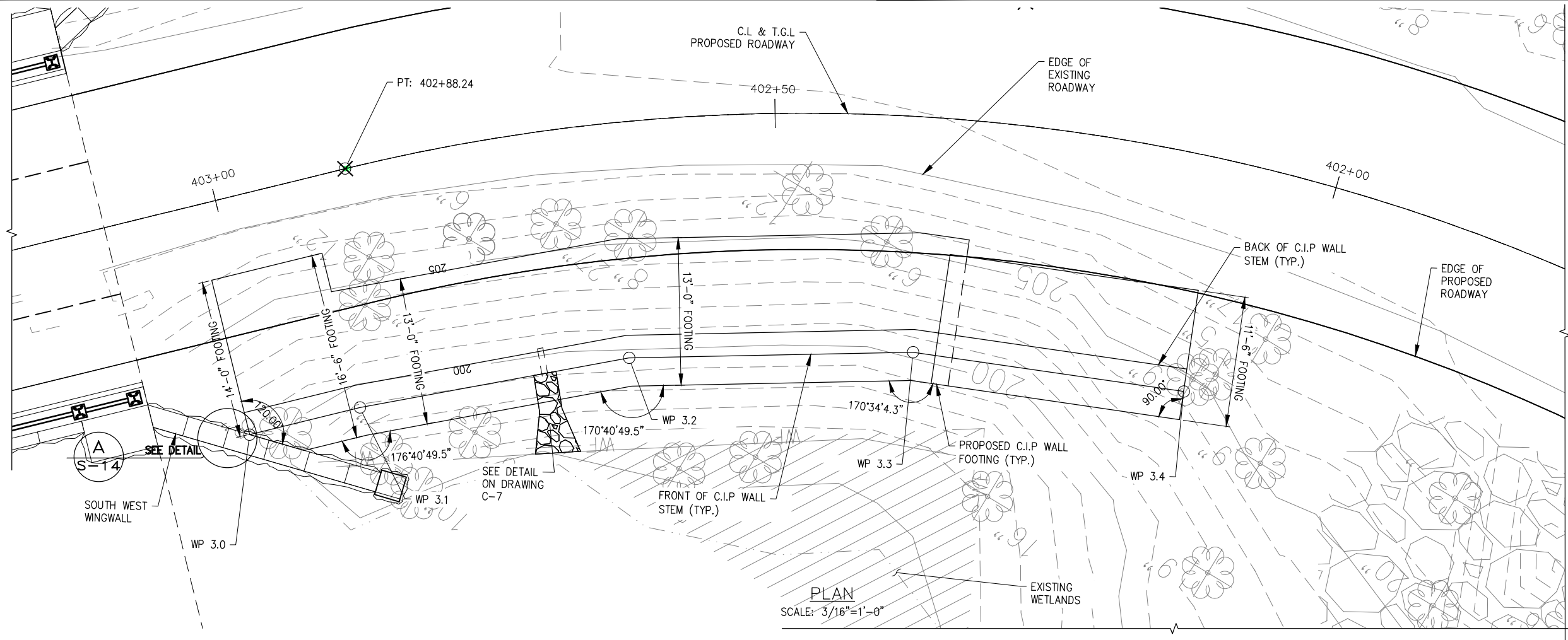
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 96-05 HORACE HARDING EXPRESSWAY 5th FLOOR  
 CORONA, NEW YORK 11368  
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**CAPITAL PROJECT WM-30**  
**IN WESTCHESTER COUNTY, NEW YORK**  
**CONTRACT CRO-530B**  
  
**PRECAST DETAILS**

DATE: 04/23/2021
SCALE: NOT TO SCALE
SHEET NO: 36 OF 46
DRAWING NO. 3912

All inquiries regarding this drawing(s) or project should be made to NYC Environmental Protection, Bureau of Engineering Design and Construction.

NOTE:  
1. SEE DWG S-14 FOR DETAILS AND REINFORCEMENT.



WORK POINT	COORDINATES		C.L. BAPTIST CHURCH ROAD	
	NORTHING	EASTING	STATION	OFFSET
WP 3.0	884,403.3673	673,052.9877	403+01.994	-20.75
WP 3.1	884,394.9550	673,047.5809	402+91.994	-20.75
WP 3.2	884,375.4783	673,033.4153	402+65.058	-20.75
WP 3.3	884,357.9084	673,015.6304	402+36.548	-20.75
WP 3.4	884,344.0193	672,995.9556	402+09.087	-20.75

60% DESIGN SUBMITTAL  
SUBMITTAL DATE: 4/23/2021

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NO.	DATE	REVISIONS/DESCRIPTION	APPR'D.

DESIGNED BY:  
C. SHLYAKHOVA  
CHECKED BY:  
O. HUNTER, P.E.  
DESIGN LEAD:  
O. HUNTER, P.E.  
SECTION MANAGER:

DRAWN BY:  
J. CIRCOSTA  
  
HARDESTY & HANOVER, LLC  
ENGINEERING  
1501 Broadway, New York, NY 10036



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SEAN McANDREW, PE

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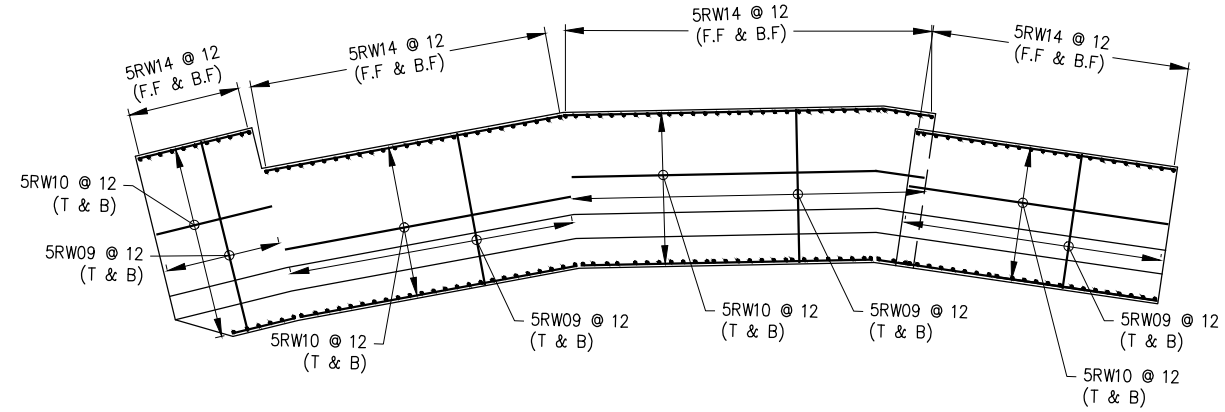
**NEW YORK CITY**  
**ENVIRONMENTAL PROTECTION**  
BUREAU OF ENGINEERING DESIGN & CONSTRUCTION  
96-05 HORACE HARDING EXPRESSWAY 5th FLOOR  
CORONA, NEW YORK 11368  
www.nyc.gov/dep

**CAPITAL PROJECT WM-30**  
**IN WESTCHESTER COUNTY, NEW YORK**  
**CONTRACT CRO-530B**  
  
SW RETAINING WALL - PLAN & ELEVATION

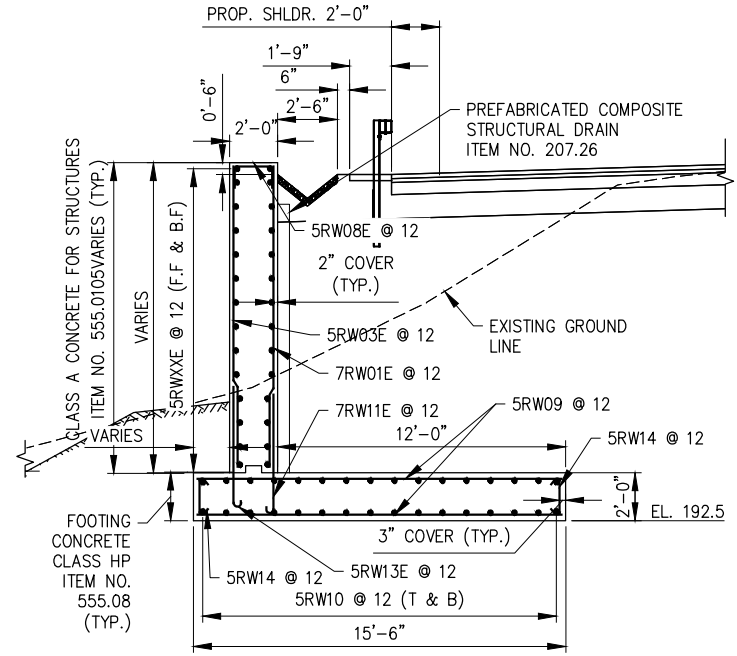
DATE: 04/23/2021  
SCALE: AS NOTED  
SHEET NO:  
37 OF 46  
DRAWING NO.  
55013

All inquiries regarding this drawing(s) or project should be made to NYC Environmental Protection, Bureau of Engineering Design and Construction.

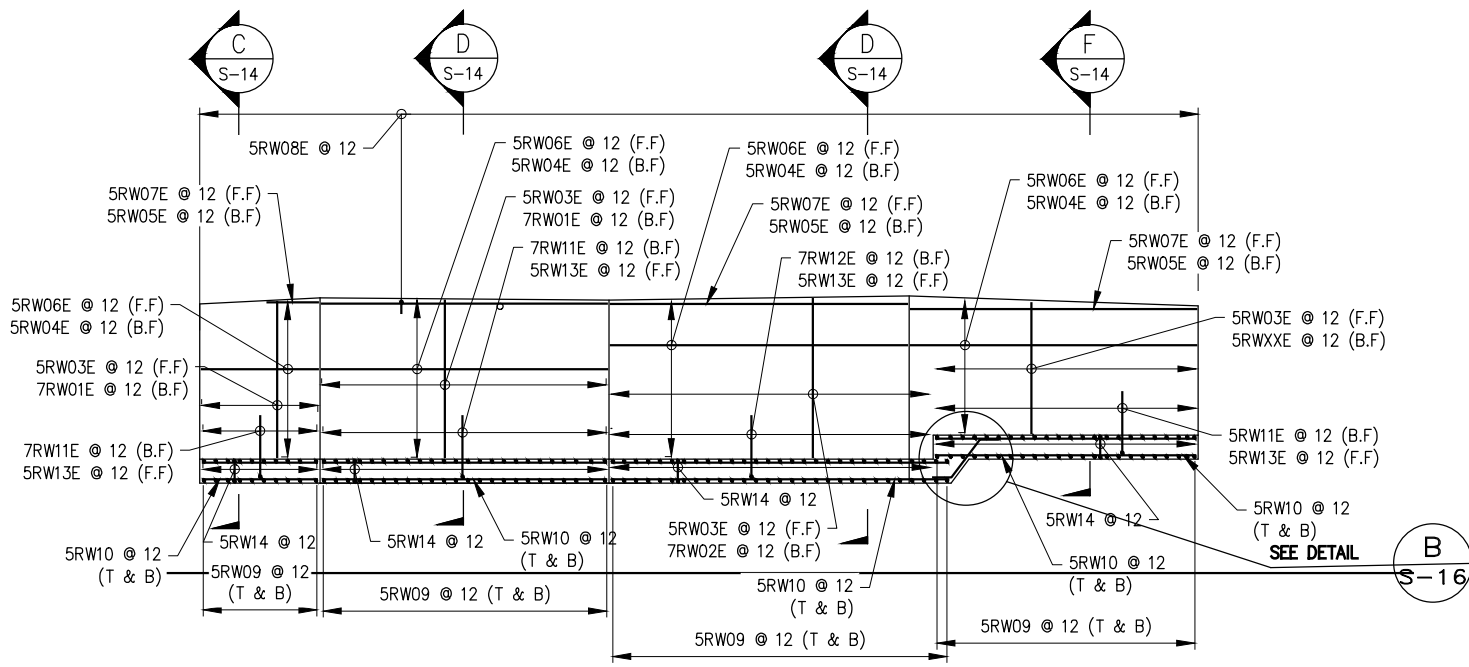
NOTE:  
1. SEE DWG S-13 FOR GEOMETRIC DETAILS.



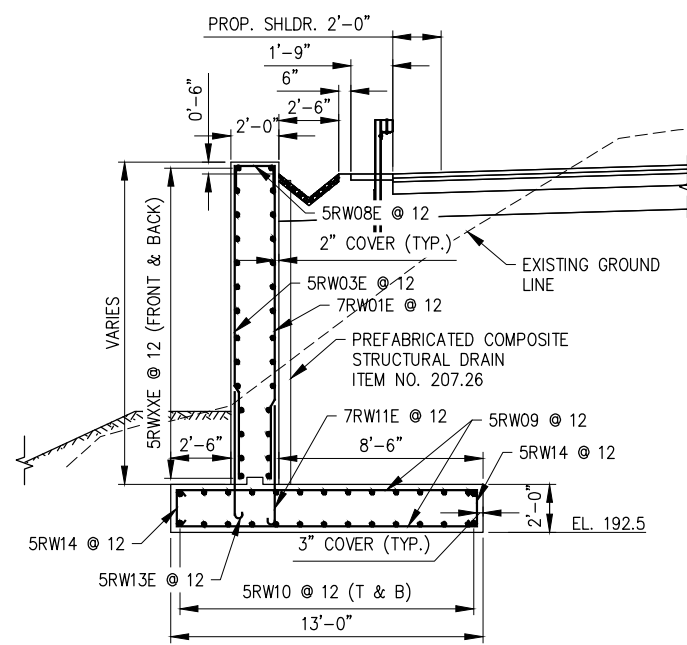
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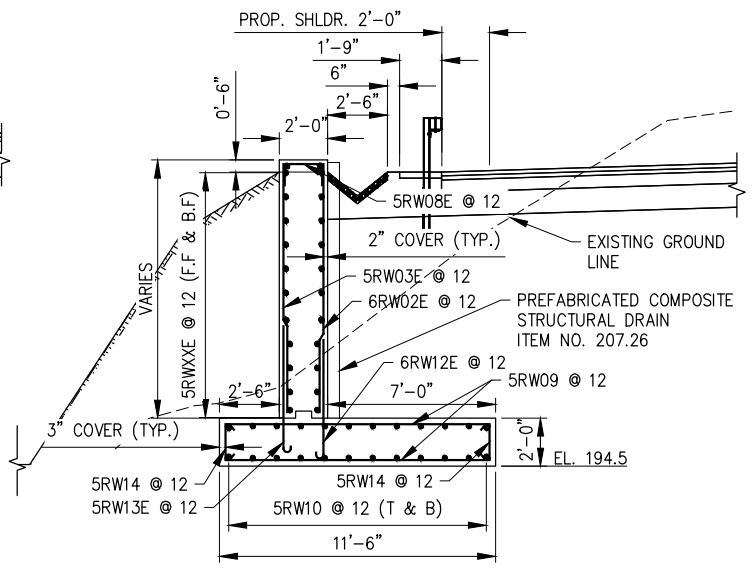
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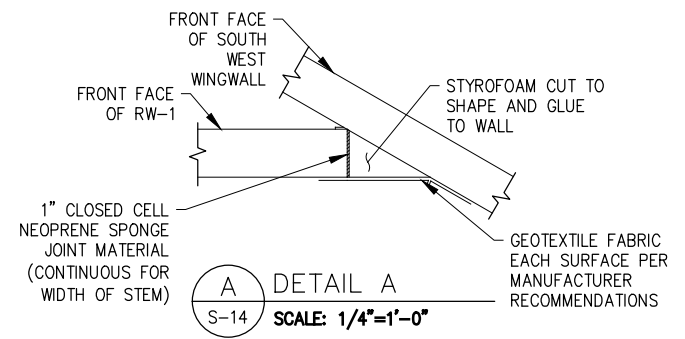
ELEVATION  
SCALE: 1/8"=1'-0"



D SECTION D  
S-14 SCALE: 1/4"=1'-0"



F SECTION F  
S-14 SCALE: 1/4"=1'-0"



A DETAIL A  
S-14 SCALE: 1/4"=1'-0"

60% DESIGN SUBMITTAL  
SUBMITTAL DATE: 4/23/2021

GRAPHIC SCALES  
CHECK BEFORE USE  
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ACCORDINGLY

Last Saved By: & Date: Cahlyakova, Tuesday, July 06, 2021 and Date Plotted: Wednesday, July 07, 2021 Time: 5:21 PM  
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Drawing Name: & Location: C:\Users\Cahlyakova\Inprod\Arms37850\34P-TIST-CHURCH-RW1-Plan & Elevation.dwg

NO.	DATE	REVISIONS/DESCRIPTION	APPR'D.

DESIGNED BY:  
C. SHLYAKHOVA  
CHECKED BY:  
O. HUNTER, P.E.  
DESIGN LEAD:  
O. HUNTER, P.E.  
SECTION MANAGER:

DRAWN BY:  
J. CIRCOSTA  
  
HARDESTY & HANOVER, LLC  
ENGINEERING  
1501 Broadway, New York, NY 10036

  
NEW YORK CITY  
Environmental Protection

ACCOUNTABLE MANAGER  
JEFFREY A. BUSSE, PE  
PORTFOLIO MANAGER  
PAUL COSTA, PE  
EXECUTIVE DIRECTOR  
SEAN McANDREW, PE

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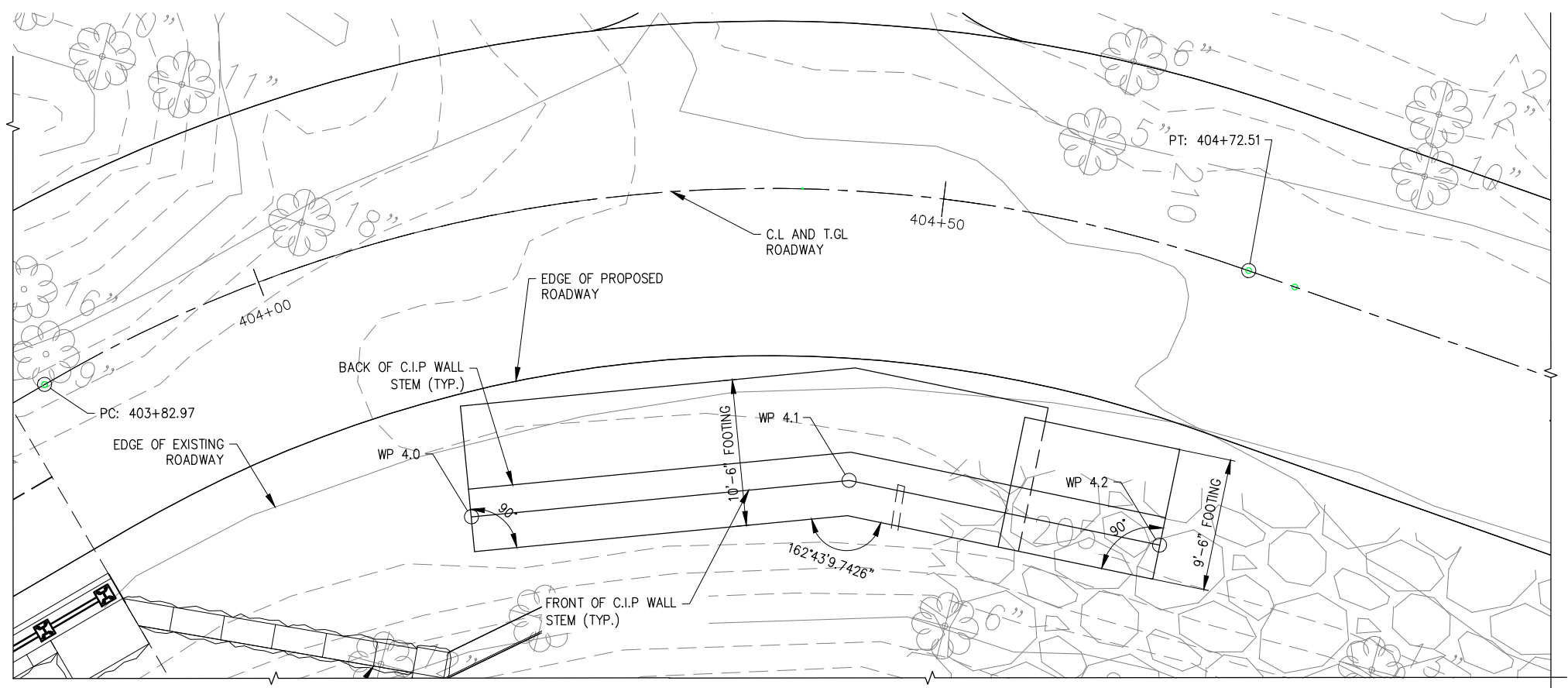
NEW YORK CITY  
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BUREAU OF ENGINEERING DESIGN & CONSTRUCTION  
96-05 HORACE HARDING EXPRESSWAY 5th FLOOR  
CORONA, NEW YORK 11368  
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CAPITAL PROJECT WM-30  
IN WESTCHESTER COUNTY, NEW YORK  
CONTRACT CRO-530B  
SW RETAINING WALL - REBAR DETAILS

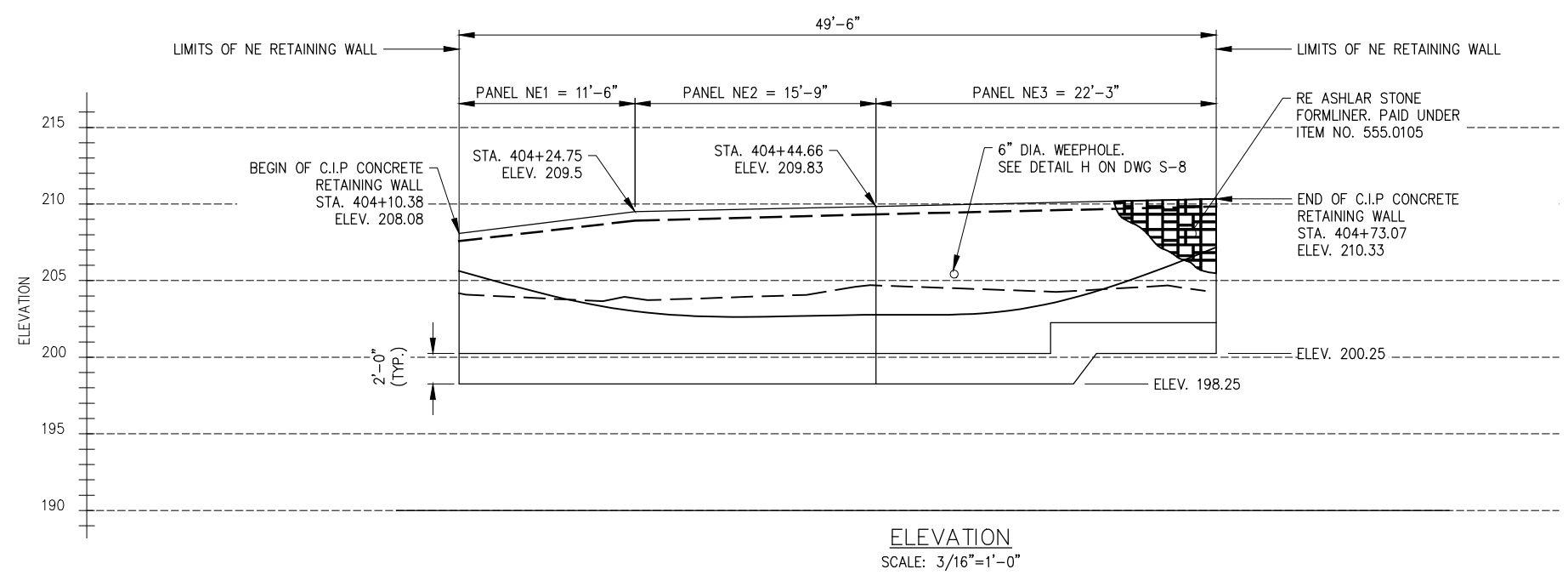
DATE: 04/23/2021  
SCALE: AS NOTED  
SHEET NO:  
38 OF 46  
DRAWING NO.  
S-14

All inquiries regarding this drawing(s) or project should be made to NYC Environmental Protection, Bureau of Engineering Design and Construction.

Last Saved By: & Date: Cshlyakhova, Wednesday, June 30, 2021 and Date Plotted: Friday, July 02, 2021 Time: 12:25 PM  
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 Drawing Name: & Location: C:\Users\Cshlyakhova\Inprod\Arms37850\BAPTIST CHURCH RW2 GEOMETRIC LAYOUT.dwg



NOTE:  
 1. SEE DWG S-16 FOR DETAILS AND REINFORCEMENT.



WORK POINT	COORDINATES		C.L. BAPTIST CHURCH ROAD	
	NORTHING	EASTING	STATION	OFFSET
WP 4.0	884,465.690200	673,145.816600	404+10.3849	20.750
WP 4.1	884,480.339890	673,168.743743	404+44.6559	20.750
WP 4.2	884,486.320022	673,190.743698	404+73.0744	20.683

60% DESIGN SUBMITTAL  
 SUBMITTAL DATE: 4/23/2021

GRAPHIC SCALES  
 CHECK BEFORE USE  
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 ACCORDINGLY

NO.	DATE	REVISIONS/DESCRIPTION	APPR'D.

DESIGNED BY:  
 C. SHLYAKHOVA  
 CHECKED BY:  
 O. HUNTER, P.E.  
 DESIGN LEAD:  
 O. HUNTER, P.E.  
 SECTION MANAGER:

DRAWN BY:  
 J. CIRCOSTA  
  
 HARDESTY & HANOVER, LLC  
 ENGINEERING  
 1501 Broadway New York, NY 10036



ACCOUNTABLE MANAGER  
 JEFFREY A. BUSSE, PE  
 PORTFOLIO MANAGER  
 PAUL COSTA, PE  
 EXECUTIVE DIRECTOR  
 SEAN McANDREW, PE

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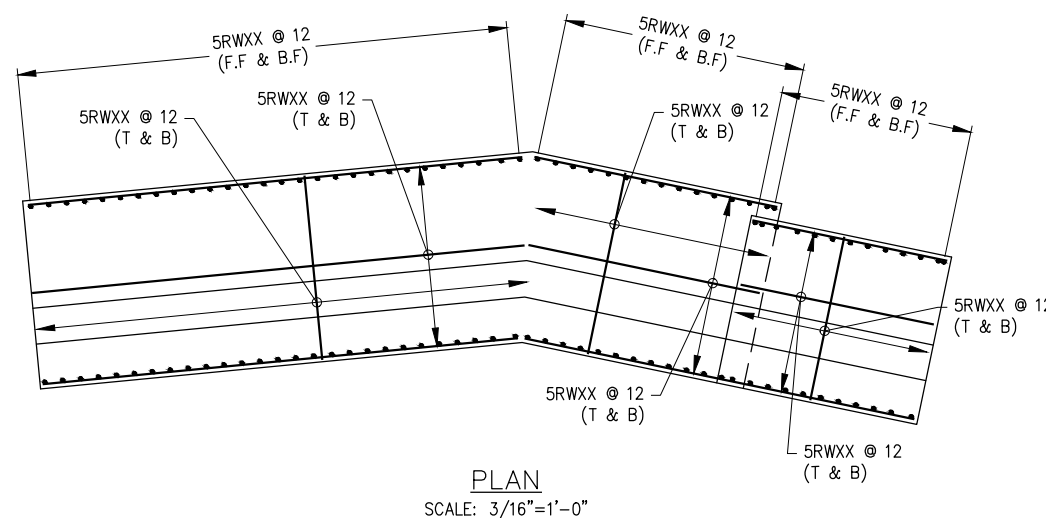
**CAPITAL PROJECT WM-30**  
**IN WESTCHESTER COUNTY, NEW YORK**  
**CONTRACT CRO-530B**  
 NE RETAINING WALL- PLAN & ELEVATION

DATE: 04/23/2021  
 SCALE: AS NOTED  
 SHEET NO:  
 39 OF 46  
 DRAWING NO.  
**S5215**

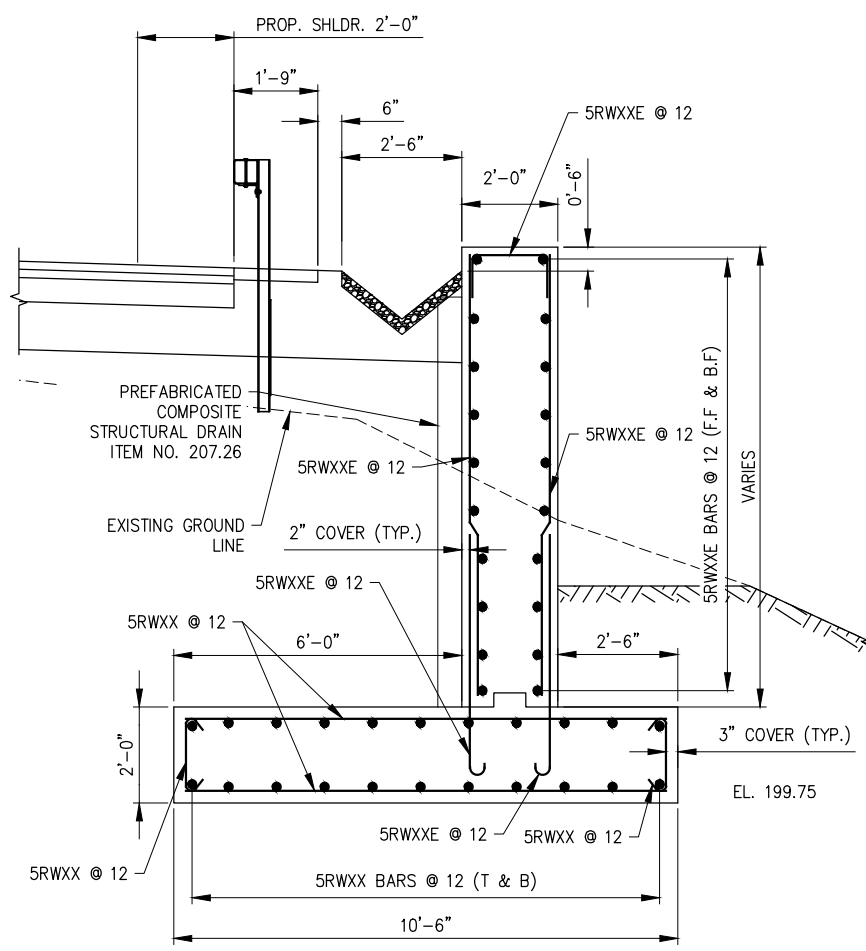
All inquiries regarding this drawing(s) or project should be made to NYC Environmental Protection, Bureau of Engineering Design and Construction.



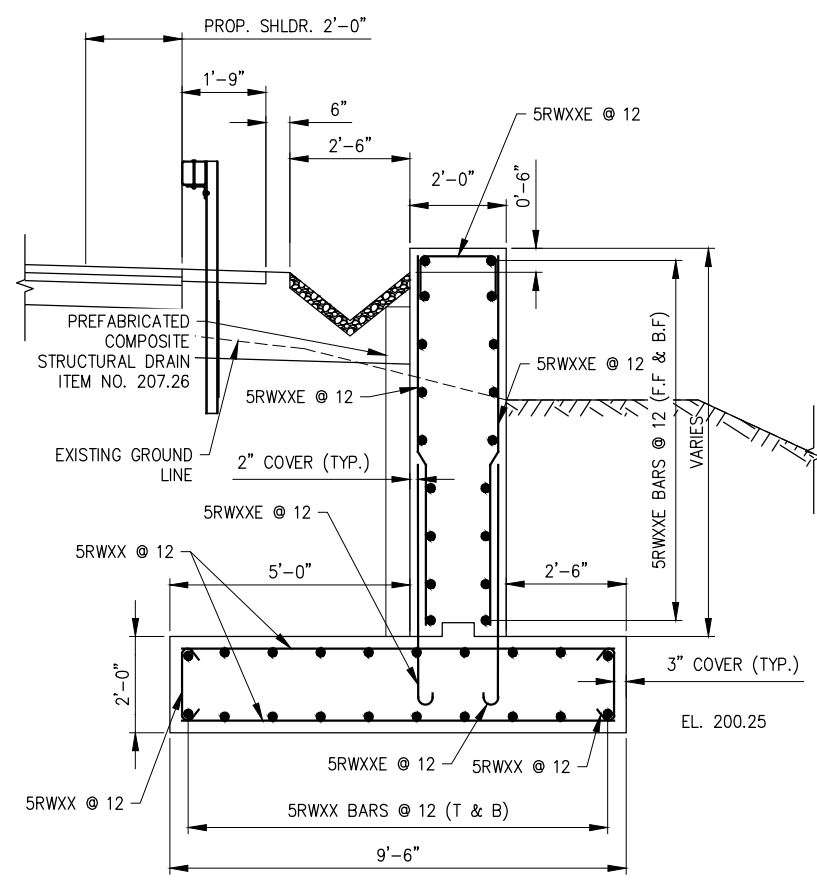
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 Drawing Name: & Location: C:\Users\Cshlyakhoval\Inprod\Yms37850\BAP\TIST\CHURCH\_RVW2\_Plan & Elevation\_2.dwg



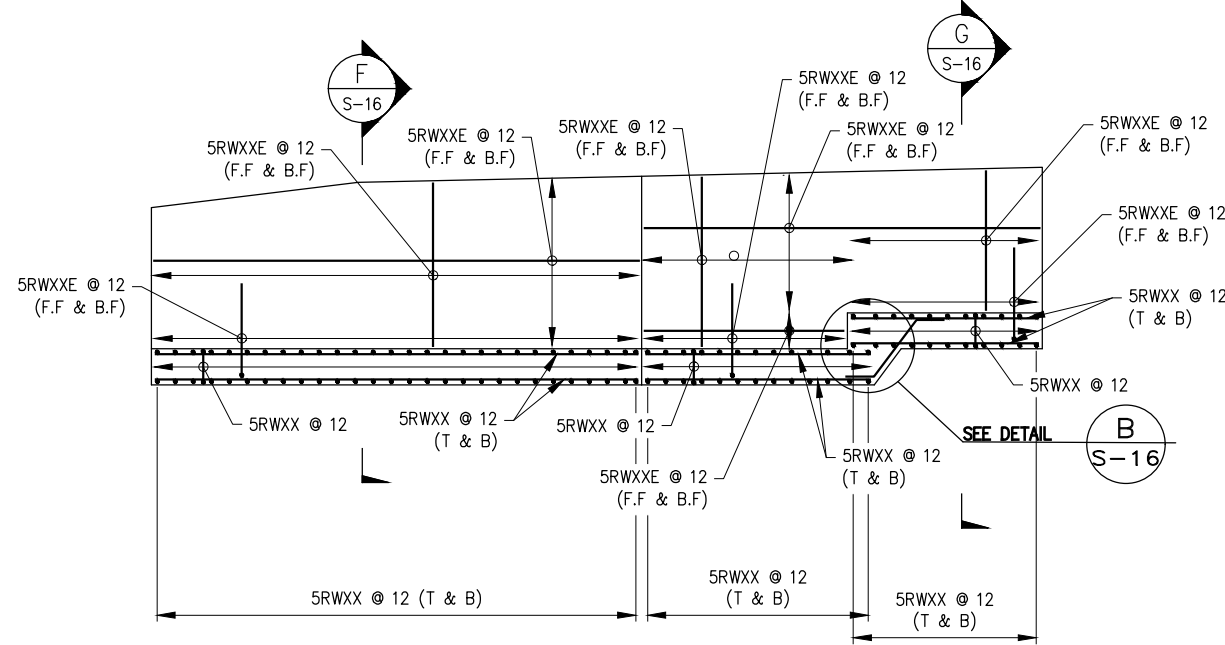
PLAN  
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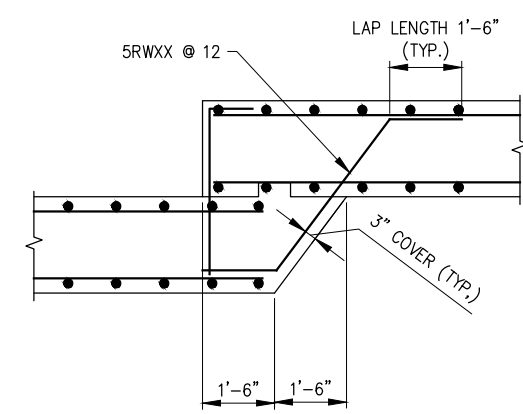
F SECTION F  
SCALE: 1/2"=1'-0"



G SECTION G  
SCALE: 1/2"=1'-0"



ELEVATION  
SCALE: 3/16"=1'-0"



B DETAIL B  
SCALE: 1/2"=1'-0"

NOTE:  
1. SEE DWG S-15 FOR GEOMETRIC DETAILS.

60% DESIGN SUBMITTAL  
SUBMITTAL DATE: 4/23/2021

GRAPHIC SCALES  
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ACCORDINGLY

NO.	DATE	REVISIONS/DESCRIPTION	APPR'D.

DESIGNED BY:  
C. SHLYAKHOVA  
CHECKED BY:  
O. HUNTER, P.E.  
DESIGN LEAD:  
O. HUNTER, P.E.  
SECTION MANAGER:

DRAWN BY:  
J. CIRCOSTA  
  
HARDESTY & HANOVER, LLC  
ENGINEERING  
1501 Broadway, New York, NY 10036



ACCOUNTABLE MANAGER  
JEFFREY A. BUSSE, PE  
PORTFOLIO MANAGER  
PAUL COSTA, PE  
EXECUTIVE DIRECTOR  
SEAN McANDREW, PE

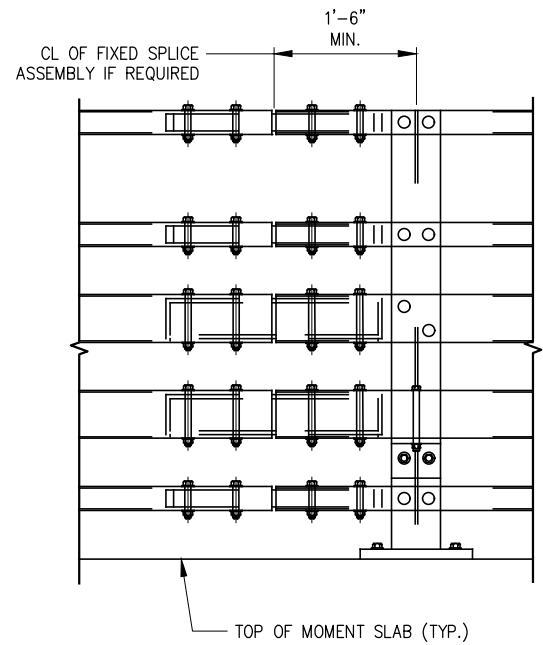
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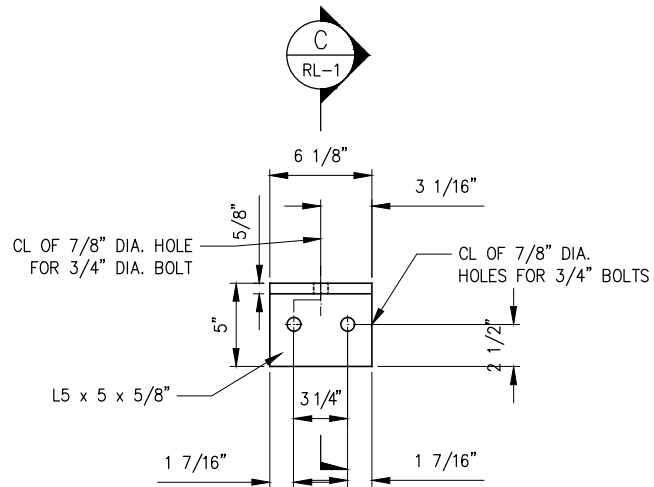
**CAPITAL PROJECT WM-30**  
**IN WESTCHESTER COUNTY, NEW YORK**  
**CONTRACT CRO-530B**  
  
NE RETAINING WALL - REBAR DETAILS

DATE: 04/23/2021  
SCALE: AS NOTED  
SHEET NO:  
40 OF 46  
DRAWING NO.  
S5316

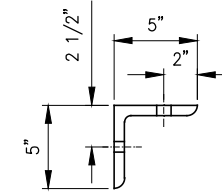
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ELEVATION: STEEL BRIDGE RAILING SPLICE DETAILS  
(FIVE-RAIL) - CURBLESS



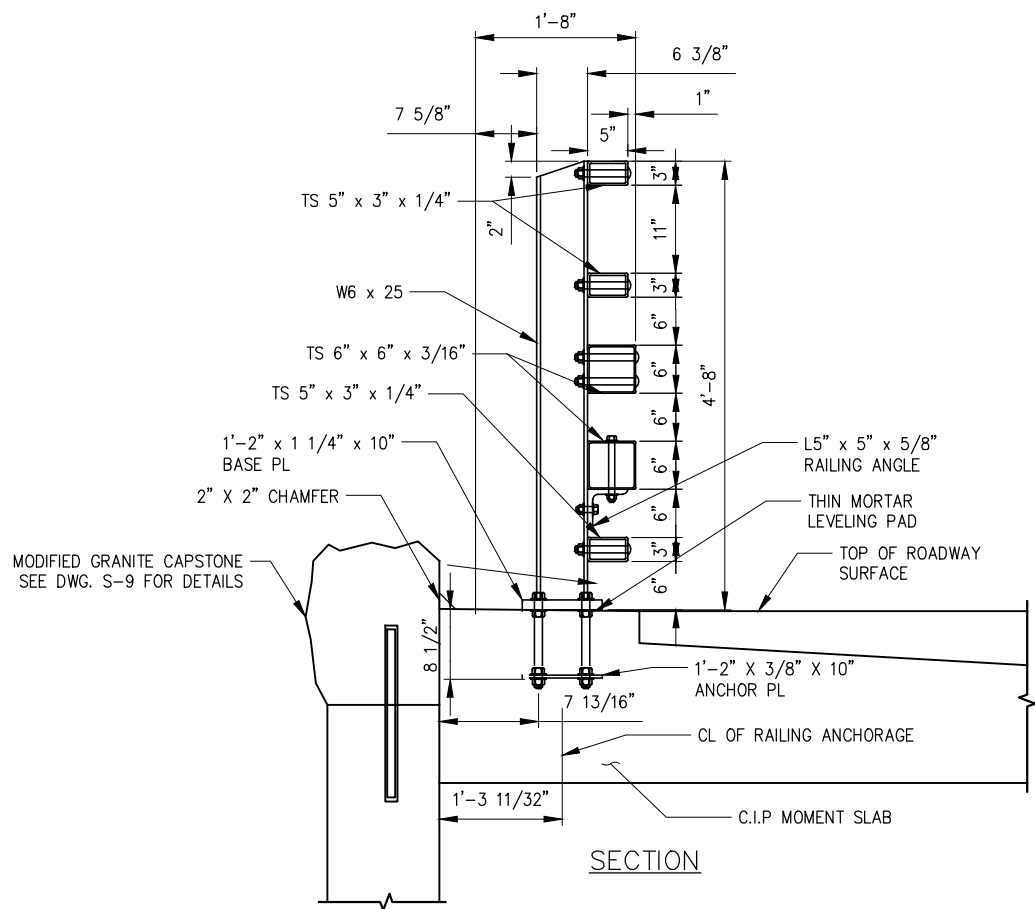
PLAN



SECTION C  
RAILING ANGLE DETAILS  
SCALE: NTS

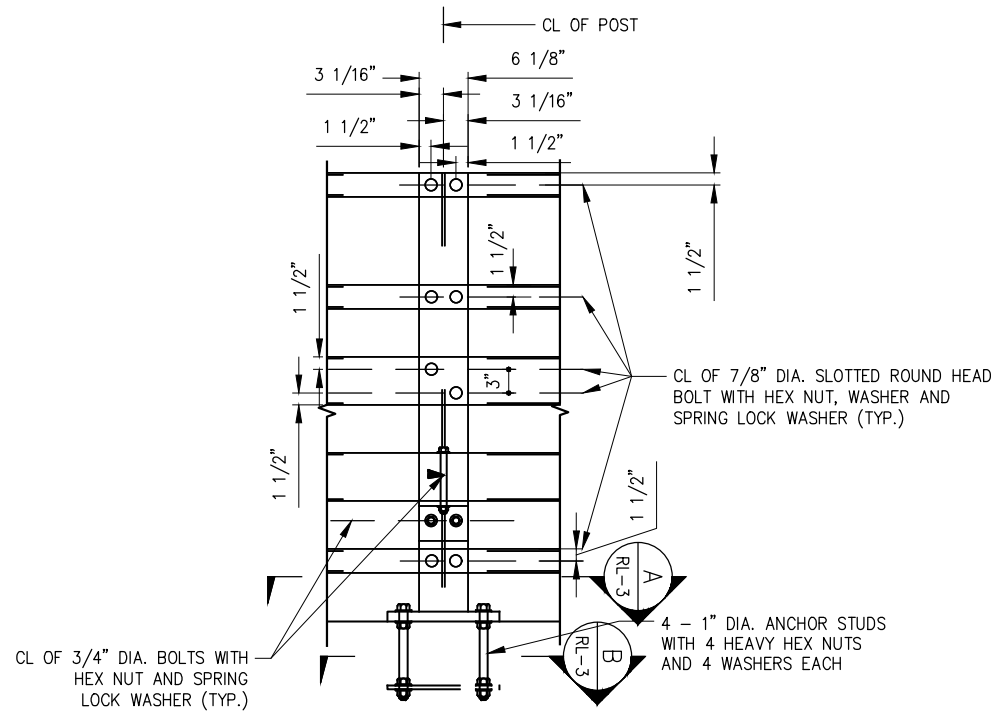
NOTES:

1. ALL RAILING IS TO BE FABRICATED AND ERECTED ACCORDING TO SECTION 568 OF THE STANDARD SPECIFICATIONS.
2. PRIOR TO GALVANIZING THE ASSEMBLED POST, GRIND ALL EDGES TO A MINIMUM RADIUS OF 1/8\"/>
- 3. BOLTS SHALL BE TORQUED SNUG TIGHT (APPROXIMATELY 100 FT-LB)
- 4. ALL RAILING IS TO BE FABRICATED AND ERECTED SO THAT THE RAILS ARE PARALLEL TO EACH OTHER AND TO THE GRADE. THE POSTS ARE TO BE TRULY VERTICAL.
- 5. WHEN THE RAILING IS TO BE PLACED ON A PREFORMED SURFACE, THE BASE PLATE MAY BE MADE PARALLEL TO THE GRADE OR MAY BE PERPENDICULAR TO THE POST AND MADE LEVEL BY THE USE OF (1:1 RATIO CEMENT TO SAND) MORTAR.
- 6. TUBULAR STEEL RAILS, RAIL POSTS, NUTS AND WASHERS, CARRIAGE BOLTS, BASE PLATE ASSEMBLIES, ANCHOR STUDS, ANCHOR PLATES, ANY NECESSARY SHIMS AND MORTAR PADS TO BE PAID FOR UNDER THE RAILING ITEM.
- 7. RAILING COMPONENTS ARE TO BE GALVANIZED IN ACCORDANCE WITH MATERIAL SPECIFICATION 719-01.
- 8. CEMENT MORTAR PADS SHALL BE PAID FOR UNDER THE RAILING ITEM.
- 9. REPAIRS TO ALL DAMAGED GALVANIZED SURFACES INCLUDING ANCHOR STUDS SHALL BE MADE IN ACCORDANCE WITH MATERIAL SPECIFICATION 719-01.
- 10. DETAILS ON THE DRAWING LABELED AS "NOT TO SCALE" ARE INTENTIONALLY DRAWN NOT TO SCALE FOR VISUAL CLARITY. ALL OTHER DETAILS FOR WHICH NO SCALE IS SHOWN ARE DRAWN PROPORTIONAL AND ARE FULLY DIMENSIONED.
- 11. FOR FULL ELEVATION OF RAILING SEE DWG S-11.

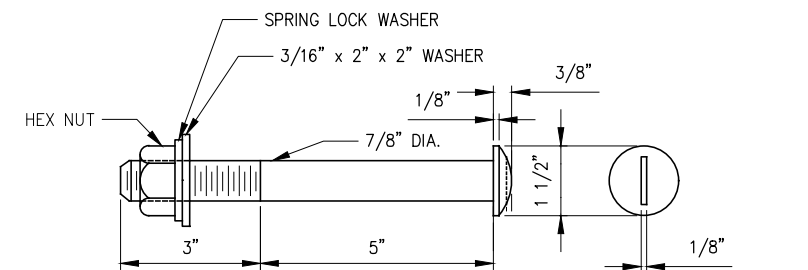


SECTION

STEEL BRIDGE RAILING SPLICE DETAILS  
(FIVE-RAIL) - CURBLESS



ELEVATION



SLOTTED ROUND HEAD BOLT

60% DESIGN SUBMITTAL  
SUBMITTAL DATE: 4/23/2021

GRAPHIC SCALES  
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Last Saved By: & Date: Cehlykhova, Friday, April 23, 2021, and Date Plotted: Tuesday, June 01, 2021 Time: 4:23 PM  
Paper Size: ANSI A (8.50 x 11.00 inches) Plot Scale: 0.356863 Plot Style Table: (N) BDED\_BW.ctb  
Drawing Name: & Location: C:\Users\cehlykhova\Inprod\Arms37850\RAILING DETAILS 1.dwg

NO.	DATE	REVISIONS/DESCRIPTION	APPR'D.

DESIGNED BY:  
**J. CIRCOSTA**  
CHECKED BY:  
**R. ROMAN, PE**  
DESIGN LEAD:  
**O. HUNTER, PE**  
SECTION MANAGER:  
**ENTER SECTION CHIEF NAME**

DRAWN BY:  
**J. CIRCOSTA**  
  
HARDESTY & HANOVER, LLC  
ENGINEERING  
1501 Broadway New York, NY 10036



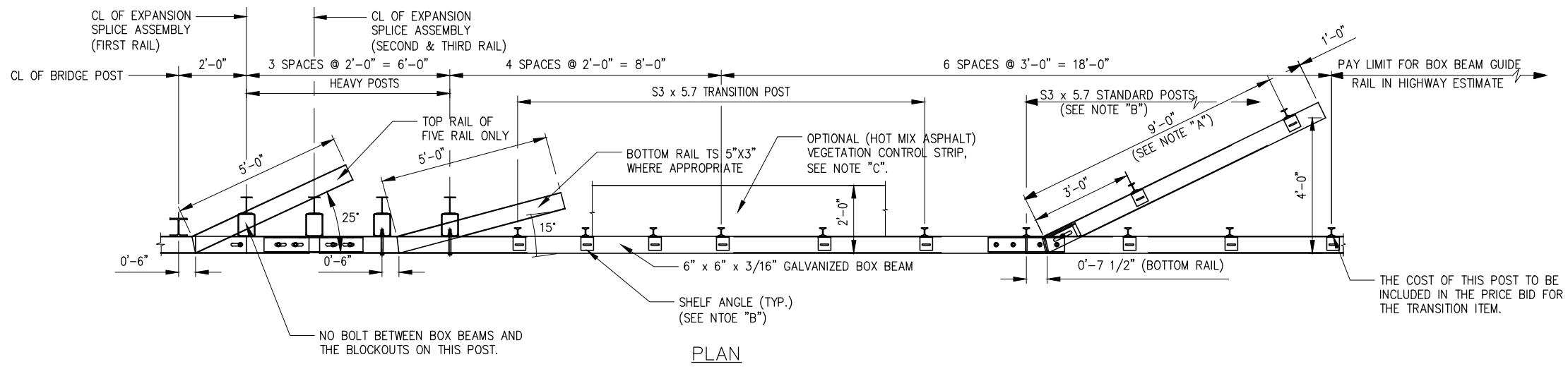
ACCOUNTABLE MANAGER  
JEFFREY A. BUSSE, PE  
PORTFOLIO MANAGER  
PAUL COSTA, PE  
EXECUTIVE DIRECTOR  
SEAN McANDREW, PE

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www.nyc.gov/dep

**CAPITAL PROJECT WM-30**  
**IN WESTCHESTER COUNTY, NEW YORK**  
**CONTRACT CRO-530B**  
  
**RAILING DETAILS-1**

DATE: 04/23/2021  
SCALE: **NTS**  
SHEET NO:  
**41** OF **46**  
DRAWING NO.  
**RL-1**



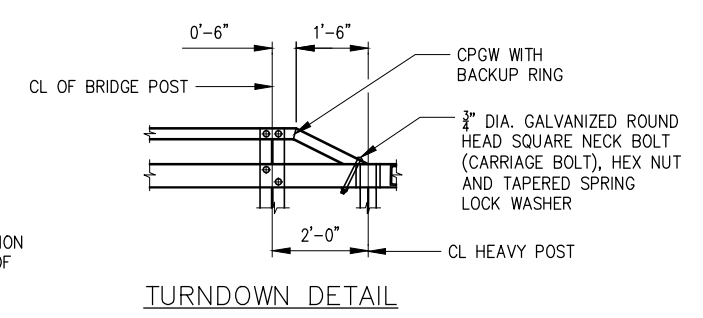
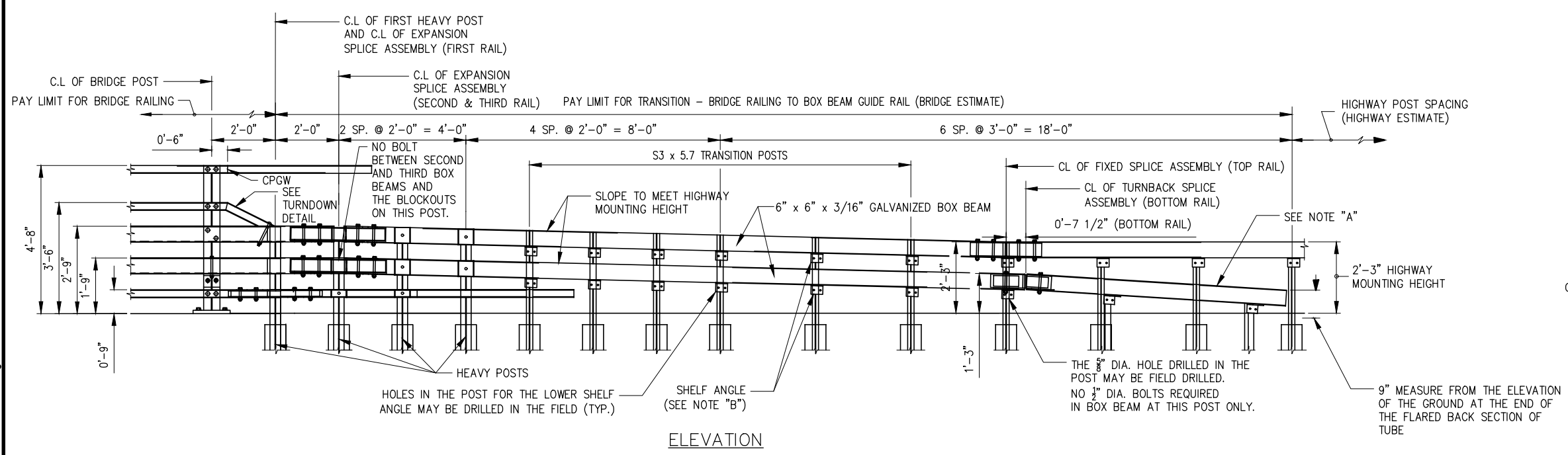
NOTES:

NOTE "A": THE COST OF THE POSTS, SPLICE TUBE AND RAIL FOR THE LOWER TUBE FLARE SECTION IS INCLUDED IN THE PRICE BID FOR THE TRANSITION ITEM.

NOTE "B": SEE TYPICAL RAIL TO POST CONNECTION DETAIL ON CURRENT HIGHWAY STANDARD SHEET TITLED "BOX BEAM GUIDE RAIL" FOR FURTHER GUIDANCE REFER TO INDEX OF DRAWINGS SHEET, G-2.

NOTE "C": PAVE THIS AREA WITH THE SAME MATERIAL USED IN THE STABILIZED SHOULDER. PAYMENT WILL BE MADE UNDER THE SHOULDER MATERIAL ITEM (HIGHWAY ESTIMATE).

TRANSITION LAYOUT NOTE: TYPICAL STRAIGHT LINE TRANSITION SHOWN. CONTRACTOR TO DEVELOP AND SUBMIT SHOP DRAWINGS FOR ACTUAL TRANSITION AT EACH CORNER OF THE BRIDGE TOGETHER WITH BRIDGE RAILING SHOP DRAWINGS.



Last Saved By: & Date: jcircosta, Friday, April 23, 2021 and Date Plotted: Tuesday, June 01, 2021 Time: 5:46 PM  
 Paper Size: ANSI A (8.50 x 11.00 inches) Plot Scale: 0.396863 Plot Style Table: (N) BRED\_BW.ctb  
 Drawing Name: & Location: C:\users\jcircosta\Myprod\Arms37850\RAILING DETAILS 2.dwg

60% DESIGN SUBMITTAL  
 SUBMITTAL DATE: 4/23/2021

GRAPHIC SCALES  
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 ACCORDINGLY

NO.	DATE	REVISIONS/DESCRIPTION	APPR'D.

DESIGNED BY: <b>J. CIRCOSTA</b>	DRAWN BY: <b>J. CIRCOSTA</b>
CHECKED BY: <b>R. ROMAN, PE</b>	
DESIGN LEAD: <b>O. HUNTER, PE</b>	HARDESTY & HANOVER, LLC ENGINEERING 1501 Broadway New York, NY 10036
SECTION MANAGER: <b>ENTER SECTION CHIEF NAME</b>	



ACCOUNTABLE MANAGER JEFFREY A. BUSSE, PE
PORTFOLIO MANAGER PAUL COSTA, PE
EXECUTIVE DIRECTOR SEAN McANDREW, PE

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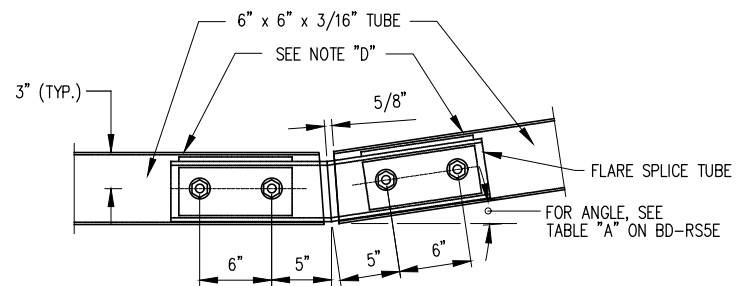
**CAPITAL PROJECT WM-30**  
**IN WESTCHESTER COUNTY, NEW YORK**  
**CONTRACT CRO-530B**

RAILING DETAILS -2

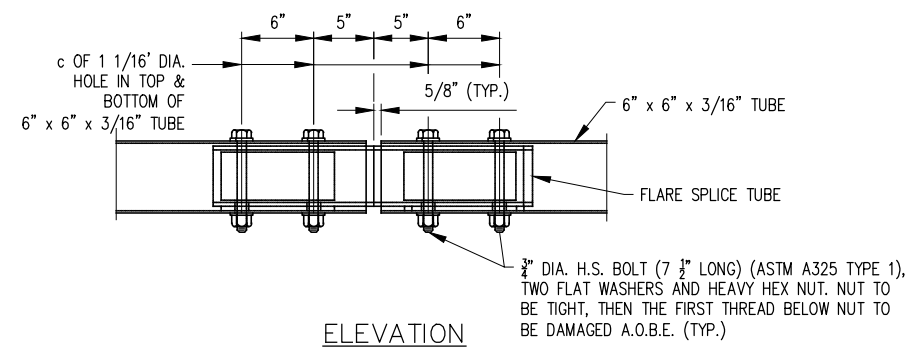
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SCALE: <b>NOT TO SCALE</b>
SHEET NO: <b>42</b> OF 46
DRAWING NO. <b>RE-2</b>

All inquiries regarding this drawing(s) or project should be made to NYC Environmental Protection, Bureau of Engineering Design and Construction.

Last Saved By: & Date: Cahlykhova, Friday, April 23, 2021, and Date Plotted: Tuesday, June 01, 2021 Time: 4:23 PM  
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 Drawing Name: & Location: C:\Users\Cahlykhova\Inprod\Yms37850\RAILING DETAILS 3.dwg

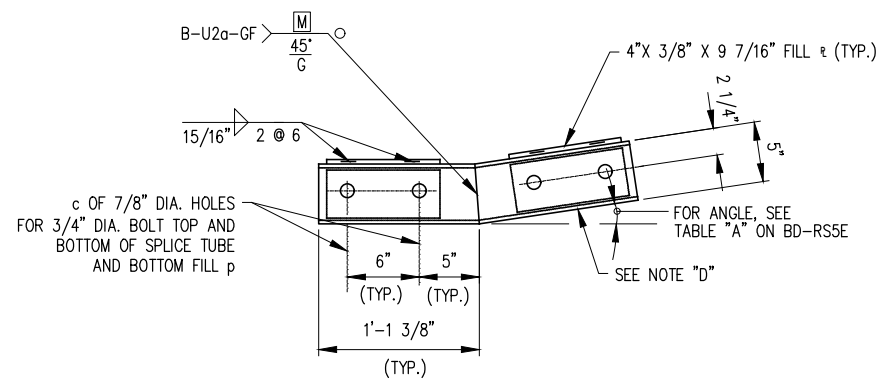


PLAN

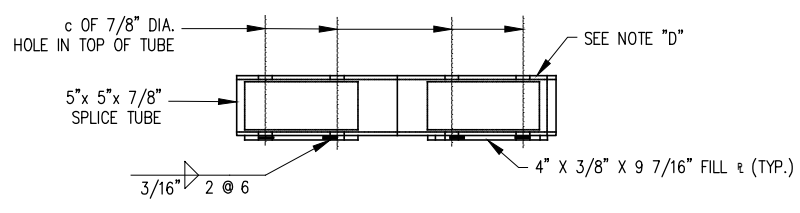


ELEVATION

FLARE SPLICE ASSEMBLY

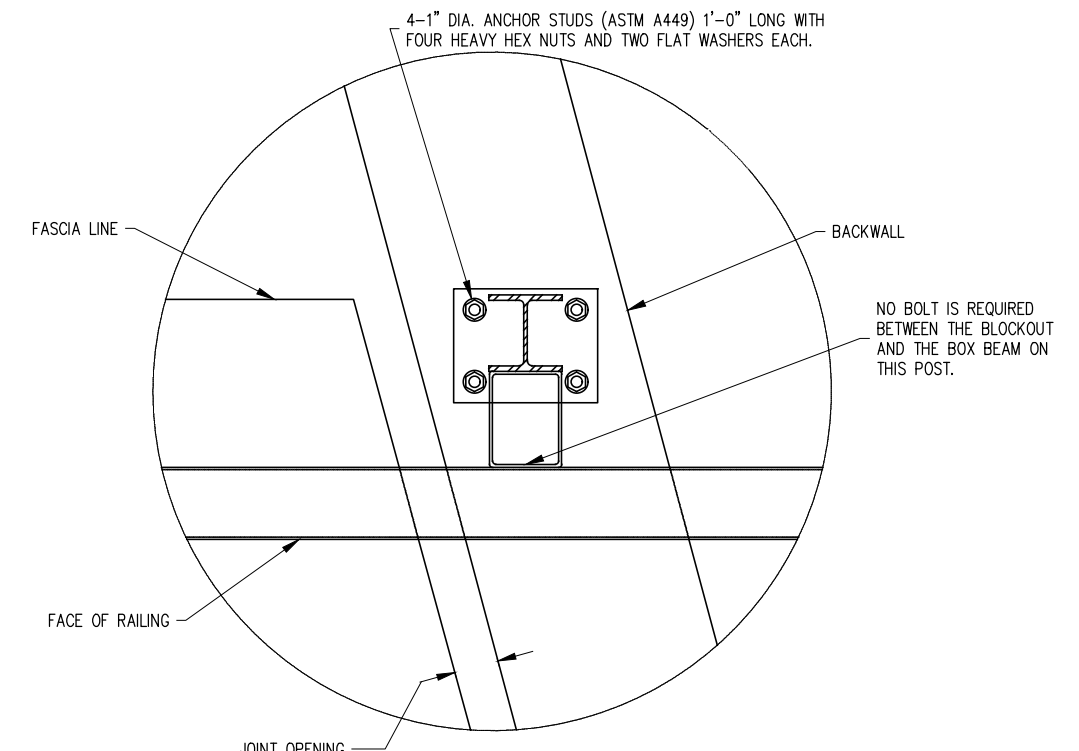


PLAN

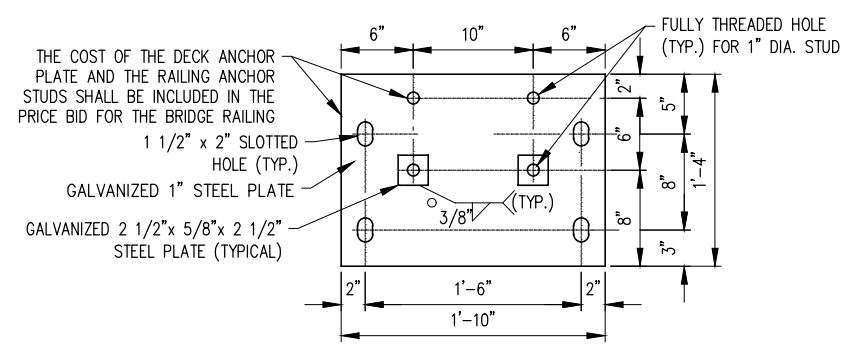


ELEVATION

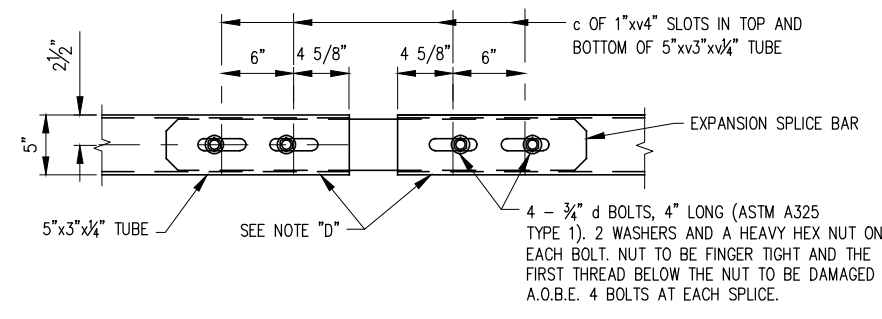
FLARE SPLICE TUBE DETAIL



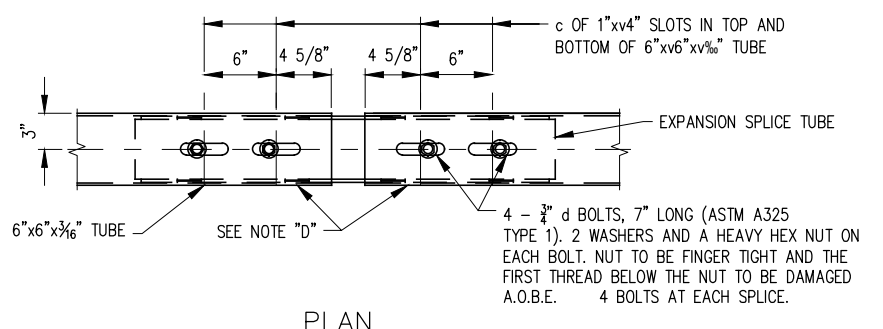
SPECIAL POST DETAIL



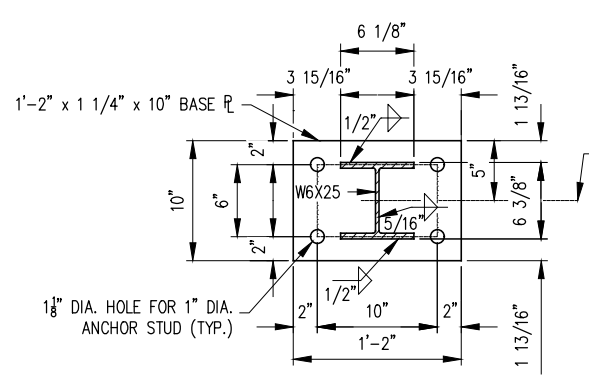
DECK ANCHOR PLATE



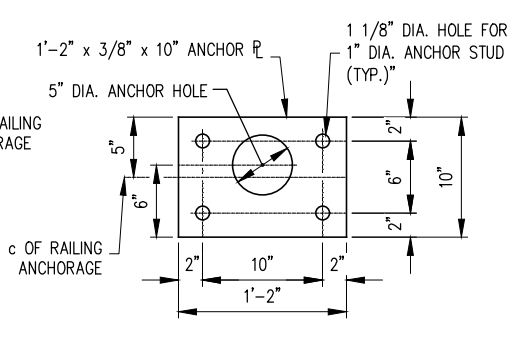
PLAN



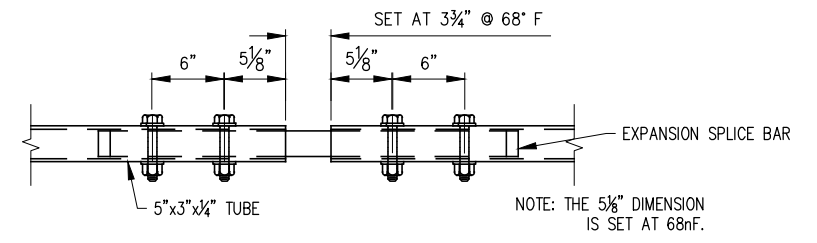
PLAN



A SECTION A  
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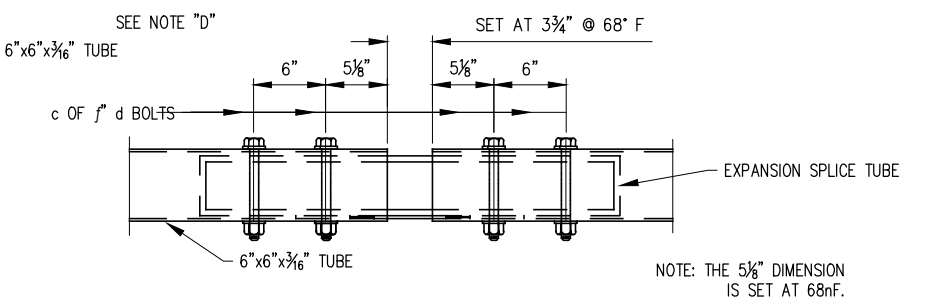


B SECTION B  
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ELEVATION

EXPANSION SPLICE BAR ASSEMBLY



ELEVATION

EXPANSION SPLICE TUBE ASSEMBLY

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DESIGN LEAD: ENTER DESIGN LEAD NAME	HARDESTY & HANOVER, LLC ENGINEERING
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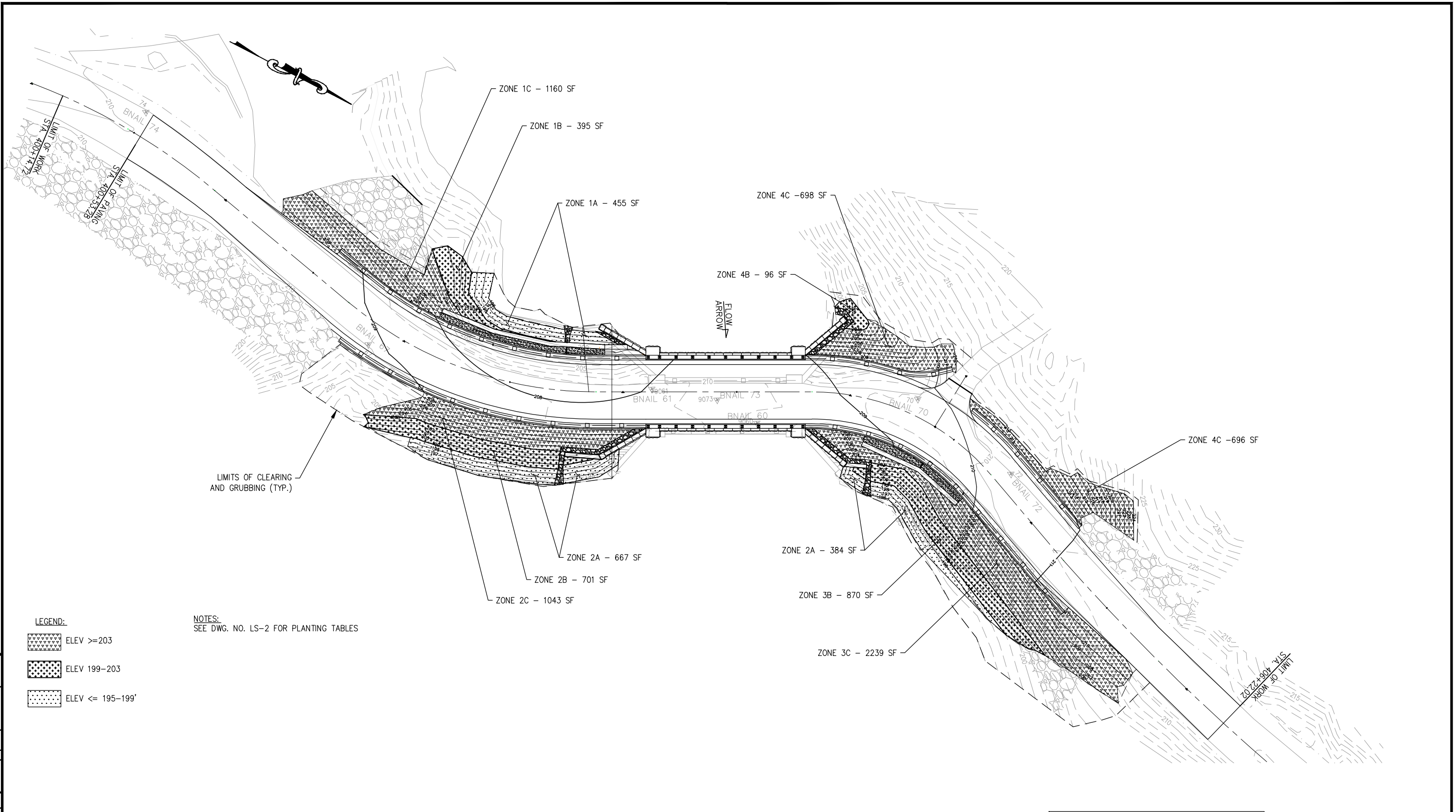
**CAPITAL PROJECT WM-30**  
**IN WESTCHESTER COUNTY, NEW YORK**  
**CONTRACT CRO-530B**  
 RAILING DETAILS - 3

DATE: 04/23/2021
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SHEET NO: 43 OF 46
DRAWING NO. RL-3

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**LEGEND:**

	ELEV >=203
	ELEV 199-203
	ELEV <= 195-199'

**NOTES:**  
SEE DWG. NO. LS-2 FOR PLANTING TABLES

60% DESIGN SUBMITTAL  
SUBMITTAL DATE: 4/23/2021

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**CAPITAL PROJECT WM-30**  
**IN WESTCHESTER COUNTY, NEW YORK**  
**CONTRACT CRO-530B**  
  
LANDSCAPING PLAN

DATE: 04/23/2021  
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45 OF 46  
DRAWING NO.  
LS-1

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**ZONE 1A -DISTURBED AREA 195-199'**

COMMON NAME	SCIENTIFIC NAME	WETLAND STATUS	SIZE	QUANTITY
TREES				
SPECKLED ALDER	ALNUS INCANA	FACW	1 INCH CALIPER	3
			TREE TOTAL	3
SHRUBS				
BUTTONBUSH	CEPHALANTUS OCCIDENTALIS	OBL	1 GALLON	3
			SHRUB TOTAL	3

**ZONE 1B-DISTURBED AREA 199-203'**

COMMON NAME	SCIENTIFIC NAME	WETLAND STATUS	SIZE	QUANTITY
TREES				
AMERICAN HORNBEAM	CARPINUS CAROLINIANA	FAC	1 INCH CALIPER	1
			TREE TOTAL	1
SHRUBS				
SPICEBUSH	LINDERA BENZOIN	FACW	1 GALLON	1
			SHRUB TOTAL	1

**ZONE 1C-DISTURBED AREA 203+'**

COMMON NAME	SCIENTIFIC NAME	WETLAND STATUS	SIZE	QUANTITY
TREES				
NORTHERN RED OAK	QUERCUS RUBRA	FACU	1 INCH CALIPER	3
BLACK OAK	QUERCUS VELUTINA	FACU	1 INCH CALIPER	3
SWEETGUM	LIQUIDAMBAR STYRACIFLUA	FACU	1 INCH CALIPER	2
			TREE TOTAL	8
SHRUBS				
WITCH HAZEL	HAMAMELIS VIRGINIANA	FACU	1 GALLON	3
GREAT LAUREL	RHODODENDRON MAXIMUM	FAC	1 GALLON	3
MAPLE LEAF VIBURNUM	VIBURNUM ACERIFOLIUM	UPL	1 GALLON	3
FLOWERING DOGWOOD	CORNUS FLORIDA	FACU	1 GALLON	3
			SHRUB TOTAL	12

**ZONE 2A-DISTURBED AREA 195-199'**

COMMON NAME	SCIENTIFIC NAME	WETLAND STATUS	SIZE	QUANTITY
TREES				
SPECKLED ALDER	ALNUS INCANA	FACW	1 INCH CALIPER	2
AMERICAN ELM	ULMUS AMERICANA	FACW	1 INCH CALIPER	2
			TREE TOTAL	4
SHRUBS				
BUTTONBUSH	CEPHALANTHUS OCCIDENTALIS	OBL	1 GALLON	2
WINTERBERRY	ILEX VERTICILLATA	FACW	1 GALLON	3
			SHRUB TOTAL	5

**ZONE 2B-DISTURBED AREA 199-203'**

COMMON NAME	SCIENTIFIC NAME	WETLAND STATUS	SIZE	QUANTITY
TREES				
RIVER BIRCH	BETULA NIGRA	FACW	1 INCH CALIPER	2
AMERICAN HORNBEAM	CARPINUS CAROLINIANA	FAC	1 INCH CALIPER	2
			TREE TOTAL	4
SHRUBS				
PUSSY WILLOW	SALIX DISCOLOR	FACW	1 GALLON	3
HUGHBUSH BLUEBERRY	VACCINIUM CORYMBOSUM	FACW	1 GALLON	3
			SHRUB TOTAL	6

**ZONE 2C-DISTURBED AREA 203+'**

COMMON NAME	SCIENTIFIC NAME	WETLAND STATUS	SIZE	QUANTITY
TREES				
NORTHERN RED OAK	QUERCUS RUBRA	FACU	1 INCH CALIPER	3
COMMON SERVICEBERRY	AMELANCHIER ARBOREA	FACU	1 INCH CALIPER	3
TULIP POPLAR	LIRIODENDRON TULIPIFERA	FACU	1 INCH CALIPER	3
SWEET BIRCH	BETULA LENTA	FAC	1 INCH CALIPER	2
			TREE TOTAL	11
SHRUBS				
WITCH HAZEL	HAMAMELIS VIRGINIANA	FACU	1 GALLON	3
GREAT LAUREL	RHODODENDRON MAXIMUM	FAC	1 GALLON	3
MAPLE LEAF VIBURNUM	VIBURNUM ACERIFOLIUM	UPL	1 GALLON	3
FLOWERING DOGWOOD	CORNUS FLORIDA	FACU	1 GALLON	3
LOW BUSH BLUEBERRY	VACCINIUM ANGUSTIFLORIUM	FACU	1 GALLON	4
			SHRUB TOTAL	16

**ZONE 3A-DISTURBED AREA 195-199'**

COMMON NAME	SCIENTIFIC NAME	WETLAND STATUS	SIZE	QUANTITY
TREES				
SPECKLED ALDER	ALNUS INCANA	FACW	1 INCH CALIPER	2
AMERICAN ELM	ULMUS AMERICANA	FACW	1 INCH CALIPER	2
			TREE TOTAL	4
SHRUBS				
BUTTONBUSH	CEPHALANTHUS OCCIDENTALIS	OBL	1 GALLON	3
WINTERBERRY	ILEX VERTICILLATA	FACW	1 GALLON	5
			SHRUB TOTAL	8

**ZONE 3B-DISTURBED AREA 199-203'**

COMMON NAME	SCIENTIFIC NAME	WETLAND STATUS	SIZE	QUANTITY
TREES				
RIVER BIRCH	BETULA NIGRA	FACW	1 INCH CALIPER	3
RED MAPLE	ACER RUBRUM	FAC	1 INCH CALIPER	3
AMERICAN HORNBEAM	CARPINUS CAROLINIANA	FAC	1 INCH CALIPER	2
			TREE TOTAL	8
SHRUBS				
PUSSY WILLOW	SALIX DISCOLOR	FACW	1 GALLON	3
HUGHBUSH BLUEBERRY	VACCINIUM CORYMBOSUM	FACW	1 GALLON	3
SPICEBUSH	LINDERA BENZOIN	FACW	1 GALLON	4
			SHRUB TOTAL	10

**ZONE 3C-DISTURBED AREA 203+'**

COMMON NAME	SCIENTIFIC NAME	WETLAND STATUS	SIZE	QUANTITY
TREES				
NORTHERN RED OAK	QUERCUS RUBRA	FACU	1 INCH CALIPER	3
BLACK OAK	QUERCUS VELUTINA	FACU	1 INCH CALIPER	3
SWEETGUM	LIQUIDAMBAR STYRACIFLUA	FACU	1 INCH CALIPER	3
TULIP POPLAR	LIRIODENDRON TULIPIFERA	FACU	1 INCH CALIPER	3
SWEET BIRCH	BETULA LENTA	FAC	1 INCH CALIPER	3
COMMON SERVICEBERRY	AMELANCHIER ARBOREA	FACU	1 INCH CALIPER	2
			TREE TOTAL	17
SHRUBS				
WITCH HAZEL	HAMAMELIS VIRGINIANA	FACU	1 GALLON	3
GREAT LAUREL	RHODODENDRON MAXIMUM	FAC	1 GALLON	3
MAPLE LEAF VIBURNUM	VIBURNUM ACERIFOLIUM	UPL	1 GALLON	4
FLOWERING DOGWOOD	CORNUS FLORIDA	FACU	1 GALLON	3
LOW BUSH BLUEBERRY	VACCINIUM ANGUSTIFLORIUM	FACU	1 GALLON	6
CANADIAN SERVICEBERRY	AMELANCHEIR CANADENIS VAR. CANADENIS	FAC	1 GALLON	6
			SHRUB TOTAL	25

**ZONE 4B-DISTURBED AREA 199-203'**

COMMON NAME	SCIENTIFIC NAME	WETLAND STATUS	SIZE	QUANTITY
TREES				
RIVER BIRCH	BETULA NIGRA	FACW	1 INCH CALIPER	1
AMERICAN HORNBEAM	CARPINUS CAROLINIANA	FAC	1 INCH CALIPER	2
			TREE TOTAL	3
SHRUBS				
PUSSY WILLOW	SALIX DISCOLOR	FACW	1 GALLON	1
HUGHBUSH BLUEBERRY	VACCINIUM CORYMBOSUM	FACW	1 GALLON	2
			SHRUB TOTAL	3

**ZONE 4C-DISTURBED AREA 203+'**

COMMON NAME	SCIENTIFIC NAME	WETLAND STATUS	SIZE	QUANTITY
TREES				
NORTHERN RED OAK	QUERCUS RUBRA	FACU	1 INCH CALIPER	3
BLACK OAK	QUERCUS VELUTINA	FACU	1 INCH CALIPER	3
SWEETGUM	LIQUIDAMBAR STYRACIFLUA	FACU	1 INCH CALIPER	2
SWEET BIRCH	BETULA LENTA	FAC	1 INCH CALIPER	2
TULIP POPLAR	LIRIODENDRON TULIPIFERA	FACU	1 INCH CALIPER	3
			TREE TOTAL	13
SHRUBS				
WITCH HAZEL	HAMAMELIS VIRGINIANA	FACU	1 GALLON	3
GREAT LAUREL	RHODODENDRON MAXIMUM	FAC	1 GALLON	3
AMERICAN HYDRANGEA	HYDRANGEA ABORESCENS	FACU	1 GALLON	6
LOW BUSH BLUEBERRY	VACCINIUM ANGUSTIFLORIUM	FACU	1 GALLON	5
CANADIAN SERVICEBERRY	AMELANCHEIR CANADENIS VAR. CANADENIS	FAC	1 GALLON	3
			SHRUB TOTAL	20

**ZONE 4D-DISTURBED AREA 203+'**

COMMON NAME	SCIENTIFIC NAME	WETLAND STATUS	SIZE	QUANTITY
TREES				
NORTHERN RED OAK	QUERCUS RUBRA	FACU	1 INCH CALIPER	1
TULIP POPLAR	LIRIODENDRON TULIPIFERA	FACU	1 INCH CALIPER	1
SWEET BIRCH	BETULA LENTA	FAC	1 INCH CALIPER	1
			TREE TOTAL	3
SHRUBS				
CANADIAN SERVICEBERRY	AMELANCHEIR CANADENIS VAR. CANADENIS	FAC	1 GALLON	3
			SHRUB TOTAL	3

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**CAPITAL PROJECT WM-30 IN WESTCHESTER COUNTY, NEW YORK CONTRACT CRO-530B**  
 LANDSCAPING PLANTING TABLES

DATE: 04/23/2021
SCALE: 1"=20'-0"
SHEET NO: 46 OF 46
DRAWING NO. <b>LS-2</b>

**Attachment C**  
**Wetland Delineation Report**





This Wetland Delineation Report was prepared for two bridges, however, only the information for the Baptist Church Road Bridge is relevant under this contract.

# WETLAND DELINEATION REPORT

## NEW YORK CITY DEPARTMENT OF ENVIRONMENTAL PROTECTION

FOR:

CAPITAL PROJECT WM-30  
CONTRACT CRO-530B  
RECONSTRUCTION OF TWO BRIDGES  
WESTCHESTER COUNTY, NEW YORK

January 10, 2019

**PREPARED FOR:**

Hardesty & Hanover, LLC  
1501 Broadway  
New York, NY 10036

**FOR SUBMITTAL TO:**

New York City Department of Environmental Protection  
465 Columbus Avenue  
Valhalla, NY 10595

**PREPARED BY:**

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EnTech Engineering, PC  
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ASGECI # 4294

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## I. INTRODUCTION

This report presents the results of a wetland delineation completed by Amy S. Greene Environmental Consultants, Inc. (ASGECI) for the reconstruction of two (2) bridges located within the New York City Croton Watershed within Westchester County, New York. The project proponent is the New York City Department of Environmental Protection (NYCDEP) and this project is being undertaken pursuant to Contract CRO-530B.

The two (2) bridges to be reconstructed are as follows:

1. Baptist Church Road Bridge: Town of Yorktown
2. Cross River Inlet Bridge: Town of Lewisboro

Each subject site and wetland delineation limit includes the existing right-of-way for each bridge and approximately 150 feet of the approach roadways plus a study area extending approximately 50 feet from the right-of-way. The project areas are identified on the Site Maps contained in Appendix A.

The wetland delineation under this contract was completed by Douglas J. Chabrak, Professional Wetland Scientist of ASGECI on November 7 and 8, 2018.

## II. SITE DESCRIPTION

The following is a general site description for each bridge location.

### Baptist Church Road Bridge

Baptist Church Road Bridge is currently open to traffic and carries traffic over New Croton Reservoir. The bridge is situated in a rural setting (i.e. forested) within the Town of Yorktown. The existing land use surrounding the site contains forest interspersed with low density residential development.

Topography within the project area is generally variable, with significantly steep slopes occurring along the roadway embankment. The predominant drainage pattern is towards New Croton Reservoir.

Jurisdictional non-wetland waters were identified within the project area along both banks of the New Croton Reservoir while jurisdictional wetlands were identified along the northwestern bank. (See Appendix D, Topographic Maps showing wetland delineation).

### Cross River Inlet Bridge

Cross River Inlet Road Bridge is currently open to traffic and carries traffic on Old Post Road over the confluence of the Cross River and Cross River Reservoir. The bridge is situated in a somewhat residential setting within the Town of Lewisboro. The existing land use surrounding the site contains forest interspersed with low to moderate density residential development.

Topography within the project area is generally variable, with moderately steep slopes occurring along the roadway embankment. The predominant drainage pattern is towards Cross River Reservoir.

Jurisdictional non-wetland waters and wetlands were identified within the project area along both banks of Cross River Reservoir (See Appendix D, Topographic Maps showing wetland delineation).

### III. WETLAND DETERMINATION METHODOLOGY

The wetland determination utilized a desktop review of existing, available information followed by an onsite determination and delineation of wetlands and waters.

The New York State Department of Environmental Conservation (NYSDEC) Freshwater Wetlands Delineation Manual (Revised July 1995) is reflective of the *U.S. Army Corps of Engineers Wetlands Delineation Manual* (1987) [USACE 1987 Manual]. The preliminary data gathering effort revealed that the subject sites and bridge locations do not contain any NYSDEC regulated freshwater wetlands; therefore, the wetland delineations were conducted in accordance with *U.S. Army Corps of Engineers Wetlands Delineation Manual* (1987) and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region Version 2.0* (January 2012). Hydrophytic vegetation was determined using wetland indicator status in the *Northcentral and Northeast 2016 Regional Wetland Plant List* (Lichvar, R.W., D.L. Banks, W.N. Kirchner, and N.C. Melvin. 2016. *The National Wetland Plant List*: 2016). A hydrophyte is any plant growing in water, soil, or on a substrate that is at least periodically deficient of oxygen as a result of excessive water content.

Plant Affinity for Wetland Conditions:

<u>Classification</u>	<u>% Occurrence in Wetland</u>
Obligate (OBL)	> 99
Facultative Wet (FACW)	67 – 99
Facultative (FAC)	34 – 66
Facultative Upland (FACU)	1 – 33
Upland (UPL)	< 1

If hydric soils and wetland hydrology are lacking, and normal circumstances exist, then an area is considered to be upland. In order to determine the dominance of each plant species, the cover class (based on percent aerial cover) is determined.

The USACE 1987 Manual includes a “Preliminary Data Gathering and Synthesis” (desktop screening) with in-field methodology chosen in part based on the results of that data gathering.

#### A. Preliminary Data Gathering and Synthesis

A desktop review of existing published information was completed to determine the approximate extent of wetlands within and proximal to the site locations. SSURGO soils mapping and NYSDEC and NWI wetlands mapping (See Appendix A, Figures 3A through 3 C and Figures 4A through 4C, respectively) were utilized to aid in determining wetland extent prior to and during the investigation. The desktop review included the gathering and review of various online data layers and maps including:

- US Fish and Wildlife Service (USFWS) National Wetlands Inventory (NWI) maps
- NYSDEC Environmental Mapper including Freshwater Wetland and NYSDEC classified streams
- USGS Topographic Maps
- Soils Survey Geographic (SSURGO) Soils mapping
- Aerial Photography
- NYSDEC Tidal and Freshwater Wetlands and streams map
- Federal Emergency Management Agency (FEMA) Preliminary Flood map

The following summarizes the results of the data gathering for each bridge.

1) Baptist Church Road Bridge

The USFWS NWI maps a non-wetland water (L1UBHh – Lacustrine, Limnetic, Unconsolidated Bottom, Permanently Flooded, Diked/Impounded) on the project site. The non-wetland water is New Croton Reservoir. The site does not contain any mapped NWI wetlands or NYSDEC regulated wetlands although there is a mapped wetland located approximately 600 feet east of the bridge (See Appendix A, Figure 4A – NWI and NYSDEC Wetlands Map). The offsite NYSDEC mapped wetland is regulated pursuant to Article 24 *Freshwater Wetlands Act* and is identified as Wetland A-41, Class 1. Class 1 wetlands provide the most critical of the State’s wetland benefits, reduction of which is acceptable only in the most unusual circumstances. This same wetland feature is also mapped by NWI as a PFO1A (Palustrine, Forested, Broad-leaved, Deciduous, Temporary Flooded) wetland

In accordance with the USACE 1987 Manual, the Level 2 (Onsite Inspection Necessary) of the Routine Wetland Delineation methodology was employed.

2) Cross River Inlet Bridge

The USFWS NWI maps a non-wetland water (L1UBHh - Lacustrine, Limnetic, Unconsolidated Bottom, Permanently Flooded, Diked/Impounded) on the project site. The non-wetland water is Cross River Reservoir. The site does not contain any mapped NWI wetlands or NYSDEC regulated wetlands although there is a mapped wetland located approximately 500 feet northwest of the bridge (See Appendix A, Figure 4B – NWI and NYSDEC Wetlands Map). The offsite NYSDEC mapped wetland is regulated pursuant to Article 24 *Freshwater Wetlands Act* and is identified as Wetland L-17, Class 1. Class 1 wetlands provide the most critical of the State’s wetland benefits, reduction of which is acceptable only in the most unusual circumstances. This same wetland feature is also mapped by NWI as a PEM1E (Palustrine, Emergent, Persistent, Seasonally Flooded/ Saturated) wetland.

In accordance with the USACE 1987 Manual, the Level 2 (Onsite Inspection Necessary) of the Routine Wetland Delineation methodology was employed.

**B. In-field Methodology**

Wetlands are defined by the USACE as, “those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated conditions. Wetlands generally include swamps, marshes, bogs, and similar areas.”

In accordance with the 1987 USACE Manual methodology, the following three parameters are diagnostic of wetlands: 1) the land is dominated by hydrophytes; 2) the substrate is indicative of hydric soil(s); and 3) the substrate is saturated with groundwater or flooded for a significant part of the growing season each year. All three parameters are normally present for an area to be identified as wetland, unless abnormal circumstances are determined to be present. Examples of abnormal circumstances may include modified wetlands that have been converted to lawns or agricultural fields.

Areas delineated as jurisdictional wetlands were flagged with orange surveyor ribbon in the field while non-wetland waters (i.e. Open Waters – OW) were flagged with blue ribbon. Wetland points and the wetland line segment to the next flag were delineated with orange ribbon sequentially labeled with an alphanumeric designation (e.g. A-1, A-2 etc.). Non-wetland waters points and the non-wetland water line segment to the next flag were delineated with blue ribbon sequentially numbered with an alphanumeric designation (e.g. OWA-6, OWA-7 etc.). The upper limit of non-wetland waters was delineated along the

ordinary high water line of the non-tidal waterbody. The wetland delineation is presented on Topographic Maps contained in Appendix D which have been modified to illustrate relevant wetland delineation information.

#### **IV. WETLAND DELINEATION**

Existing published information was studied to determine the approximate extent of wetlands in the study areas. SSURGO soils mapping and NWI/NYSDEC wetlands mapping (Appendix A, Figures 3A and 3B and Figures 4A and 4B, respectively) were utilized to aid in determining wetland extent prior to and during the investigation. Vegetation, soils, and hydrology were examined for evidence of wetland characteristics according to the USACE methodology. See Appendix B for Sampling Station Data Sheets, Appendix C for Color Photographs with Descriptions, and Appendix D for Topographic Maps (showing wetland delineation).

The following describes the wetland delineation results at each site location.

##### **A. Baptist Church Road Bridge**

The western bank of the reservoir was flagged with the “A” Series flags while the eastern bank was flagged with the “B” Series flags. Wetlands within the study area consist of two (2) small palustrine forested freshwater wetland fringes along the edge of the reservoir, north of the roadway embankment.

The following wetlands and non-wetland waters were identified and delineated within each of the four (4) project quadrants.

Flags OWA-1 through OWA-7 delineate the edge (i.e. ordinary high water line) of the New Croton Reservoir within the northwestern and southwestern project quadrants.

Flags A-8 through A-9 delineate the boundary of a small palustrine forested wetland located within the northwestern project quadrant. This wetland is a small vegetated fringe along the reservoir.

Flags OW A-10 through OWA-11 delineate the edge of the New Croton Reservoir within the northwestern project quadrant.

Flags A-12 through A-13 delineate the boundary of a palustrine forested wetland located within the southwestern project quadrant. This wetland is a small vegetated fringe along the reservoir which becomes more expansive outside of the delineation limits.

Flags OWB-1 through OW B-7 delineate the edge of the New Croton Reservoir within the northeastern and southeastern project quadrants.

##### *Project Area Soils and Topography*

The project area topography varies from moderately to significantly sloping. The steepest slopes observed occur along man-made embankments associated with the road right-of-way. However, moderate slopes also occur naturally throughout the adjacent land. Elevations range from approximately 190 to 210 feet throughout the project area (See Appendix A-Figure 2A).

Soils within the project area are classified as upland soils. Soil Survey Geographic (SSURGO) mapping (See Appendix A, Figure 3A, SSURGO Soils Maps) indicates the following soil types within the project area.

Soil Unit

CuD – Chatfield-Hoolis-Rock outcrop complex, 15 to 35 percent slopes

Hydric Listing\*

NL

\*Hydric (H); Hydric Inclusion (HI); Not Listed as Hydric (NL)

Hydric soils characterized by low chroma matrix and redox features were identified in the delineated wetland areas. Documentation of soil characteristics found within wetlands and adjacent uplands is provided in Appendix B. These characteristics are not entirely consistent with the SSURGO mapping of the site; however, SSURGO mapping is prepared using high-altitude aerial photography without actual ground verification and is, therefore, subject to slight inaccuracies.

*Project Area Hydrology*

Direct evidence of wetland hydrology observed during the field investigation included saturated soils, standing water, a high water table, and sloping or topographic depressions. The wetlands appear to be situated within the floodplain of New Croton Reservoir.

*Project Area Vegetation*

To be considered a wetland, the area must be vegetated with a predominance of hydrophytes. A hydrophyte is any plant “growing in water, soil, or on a substrate that is at least periodically deficient of oxygen as a result of excessive water content.” Since most plant species tolerate a range of growing conditions, individual species are not restricted to either wetland or upland communities.

Wetlands observed within the study area included palustrine forested wetlands adjacent to New Croton Reservoir.

Representative wetland and upland vegetation associated with the project area is described below.

**Wetland Vegetation:** Representative wetland vegetation includes green ash (*Fraxinus pennsylvanica*, FACW), American elm (*Ulmus americana*, FACW), winterberry (*Ilex verticillata*, FACW), and speckled alder (*Alnus incana*, FACW).

**Upland Vegetation:** Representative upland vegetation includes Northern red oak (*Quercus rubra*, FACU), black oak (*Quercus velutina*, UPL), sweet birch (*Betula lenta*, FACU), sugar maple (*Acer saccharum*, FACU), Morrow honeysuckle (*Lonicera morrowii*, FACU), witch hazel (*Hamamelis virginiana*, FACU), calico aster (*Symphotrichum lateriflorum*, FAC) and mugwort (*Artemisia vulgaris*, UPL).

**B. Cross River Inlet Bridge**

The southern side of the bridge was flagged with the “A” Series flags while the northern side was flagged with the “B” Series flags. The wetlands identified within the study area consist of a palustrine emergent freshwater wetlands occurring as fringes along the edge of water on the northern side of the bridge east and west of the roadway embankment.

The following wetlands and non-wetland waters were identified and delineated within each of the four (4) project quadrants.

Flags OWA-1 through OWA-6 delineate the edge of Cross River Reservoir within the southeastern and

southwestern project quadrants. No wetlands are present within this portion of the site.

Flags B-1 through B-3 delineate the boundary of a small palustrine emergent wetland fringe located within the northwestern project quadrant. This wetland is associated with the hydrology from the reservoir.

Flags OWB-4 through OWB-5 delineate the edge of Cross River Reservoir within the northeastern and southeastern project quadrants.

*Flags B-6 through B-9* delineate the boundary of a palustrine emergent wetland fringe located within the northeastern project quadrant. This wetland is associated with the hydrology from the reservoir.

### *Project Area Soils and Topography*

The project area topography varies from gently to moderately sloping. The steepest slopes observed occur along man-made embankments associated with the road right-of-way. However, moderate slopes also occur naturally throughout the adjacent land. Elevations range from approximately 325 to 335 feet throughout the project area. (See Appendix A-Figure 2B).

Soils within the project area contain a mix of hydric and upland soils. Soil Survey Geographic (SSURGO) mapping (See Appendix A, Figure 3A, SSURGO Soils Maps) indicates the following soil types within the project area.

<u>Soil Unit</u>	<u>Hydric Listing*</u>
Ff – Fluvaquents-Udifluvents complex, frequently flooded	H
Pw – Pompton silt loam, loamy substratum	HI
RhB – Riverhead loam, 3 to 8 percent slopes	NL

\*Hydric (H); Hydric Inclusion (HI); Not Listed as Hydric (NL)

Hydric soils characterized by low chroma matrix and redox features were identified in the delineated wetland. Documentation of soil characteristics found within wetlands and adjacent uplands is provided in Appendix B. These characteristics are not entirely consistent with the SSURGO mapping of the site; however, SSURGO mapping is prepared using high-altitude aerial photography without actual ground verification and is, therefore, subject to slight inaccuracies.

### *Project Area Hydrology*

Direct evidence of wetland hydrology observed during the field investigation included saturated soils, standing water, a high water table, and sloping or topographic depressions. The wetland appears to be situated within the floodplain of Cross River Reservoir.

### *Project Area Vegetation*

To be considered a wetland, the area must be vegetated with a predominance of hydrophytes. A hydrophyte is any plant “growing in water, soil, or on a substrate that is at least periodically deficient of oxygen as a result of excessive water content.” Since most plant species tolerate a range of growing conditions, individual species are not restricted to either wetland or upland communities.

The wetlands delineated within the study area are palustrine emergent wetlands adjacent to Cross River Reservoir.



Representative wetland and upland vegetation associated with the project area is described below.

**Wetland Vegetation:** Representative wetland vegetation includes swamp rose (*Roast palustris*, OBL), iris (*Iris* sp. OBL), tussock sedge (*Carex stricta*, OBL) Narrow-leaved cattail (*Typha angustifolia*, OBL) and purple loosestrife (*Lythrum salicaria*, OBL).

**Upland Vegetation:** Representative upland vegetation includes Norway maple (*Acer platanoides*, UPL), Northern red oak (*Quercus rubra*, FACU), winged euonymus (*Euonymus alatus*, UPL), Morrow honeysuckle (*Lonicera morrowii*, FACU), Oriental bittersweet (*Celastrus orbiculatus*, UPL), calico aster (*Symphotrichum lateriflorum*, FAC) and mugwort (*Artemisia vulgaris*, UPL).

## VI. SUMMARY

To identify the presence of jurisdictional wetlands and non-wetland waters within each project area, an ASGECI environmental scientist conducted detailed data gathering and reviews of State and federal data sources and field investigations. Periodic soil sampling was conducted at each bridge location along with hydrology and vegetation evaluations. Based on the above, all wetlands and non-wetland waters were delineated within the defined project areas. Upland areas contained vegetation typical of Northern forests and disturbed successional edges. These areas lacked the hydric soils, hydrology, and hydrophytic vegetation characterized by the delineated wetlands. The delineated features occurred within low to moderately-developed rural and suburban areas where signs of anthropogenic disturbances were evident.

The results and findings of this wetland delineation are subject to review and verification by the NYSDEC and USACE.

## **APPENDIX A**

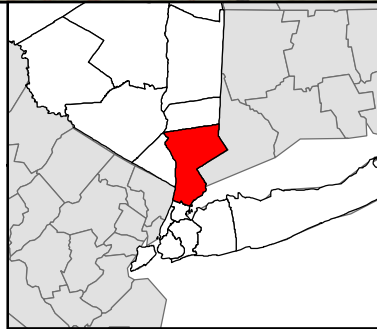
### **SITE MAPS**

Figure 1 – Site Location Map  
Figures 2A and 2B– USGS Topographic Maps  
Figures 3A and 3B – SSURGO Soils Maps  
Figures 4A and 4B – NWI and NYSDEC Wetland Maps



**Legend**

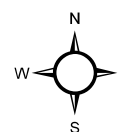
 Site Location



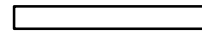
**Figure 1**  
**Site Location Map**

New York City Department of  
Environmental Protection  
Contract 530B - Reconstruction of 2 Bridges  
Town of Lewisboro  
and Town of Yorktown  
Westchester County, New York

ASGECI Project # 4294



10,000



Feet




Source:  
ESRI worldwide street map presents highway-level data for the world and includes highways, major roads, minor roads, one-way arrow indicators, railways, water features, administrative boundaries, cities, parks, and landmarks, overlaid on shaded relief imagery for added context. The street map was developed by Esri using Esri basemap data, DeLorme basemap layers, U.S. Geological Survey (USGS) elevation data, Intact Forest Landscape (IFL) data for the world; HERE data for Europe, Australia and New Zealand, North America, South America and Central America, Africa, and most of the Middle East; and select data from the GIS user community, published by ESRI® Data & Maps, November 2018.

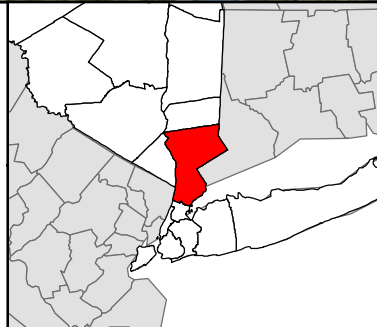




**Legend**

 Site Location

Latitude and Longitude Coordinates in NAD83 for the approximate center of site -  
 N: 41° 15' 41.87" / W: 73° 36' 52.65"

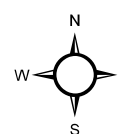


Source:  
 National Geographic Society (NGS) USA Topographic Maps, seamless, scanned images of United States Geological Survey (USGS) paper topographic maps, Croton Falls NY, Peach Lake NY, Pound Ridge NY, and Mount Kisco NY Quadrangles, copyright 2013, distributed as a web mapping service by ESRI® Data & Maps, Redlands, California, 2017.

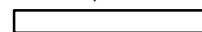
**Figure 2B**  
**USGS Topographic Map**

New York City Department of  
 Environmental Protection  
 Contract 530B - Reconstruction of 2 Bridges  
 Cross River Inlet Bridge  
 Town of Lewisboro  
 Westchester County, New York

ASGECI Project # 4294



2,000




Feet





**Legend**

 Site Location

**SOILS LIST:**

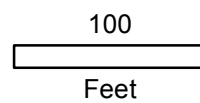
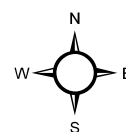
CuD - Chatfield-Hollis-Rock outcrop complex, hilly

Sources:  
 Soil Survey Geographic (SSURGO) database for Westchester County, New York,  
 U.S. Department of Agriculture, Natural Resources Conservation Service, Fort Worth, Texas, December 2013.  
 2016 Imagery in Westchester County, NY Statewide Digital Orthoimagery Program (NYSODP)  
 Imagery Coverage, Statewide Web Map Service Regional Coverage from 2000 to 2017,  
 NYS Division of Homeland Security and Emergency Services, NYS Cyber Security, distributed 2018.

**Figure 3A  
 SSURGO Soils Map**

New York City Department of  
 Environmental Protection  
 Contract 530B - Reconstruction of 2 Bridges  
 Baptist Church Road Bridge  
 Town of Yorktown  
 Westchester County, New York

ASGECI Project # 4294





**Legend**

 Site Location

**SOILS LIST:**

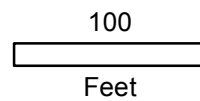
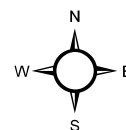
Ff - Fluvaquents-Udifulvents complex, frequently flooded  
 Pw - Pompton silt loam, loamy substratum

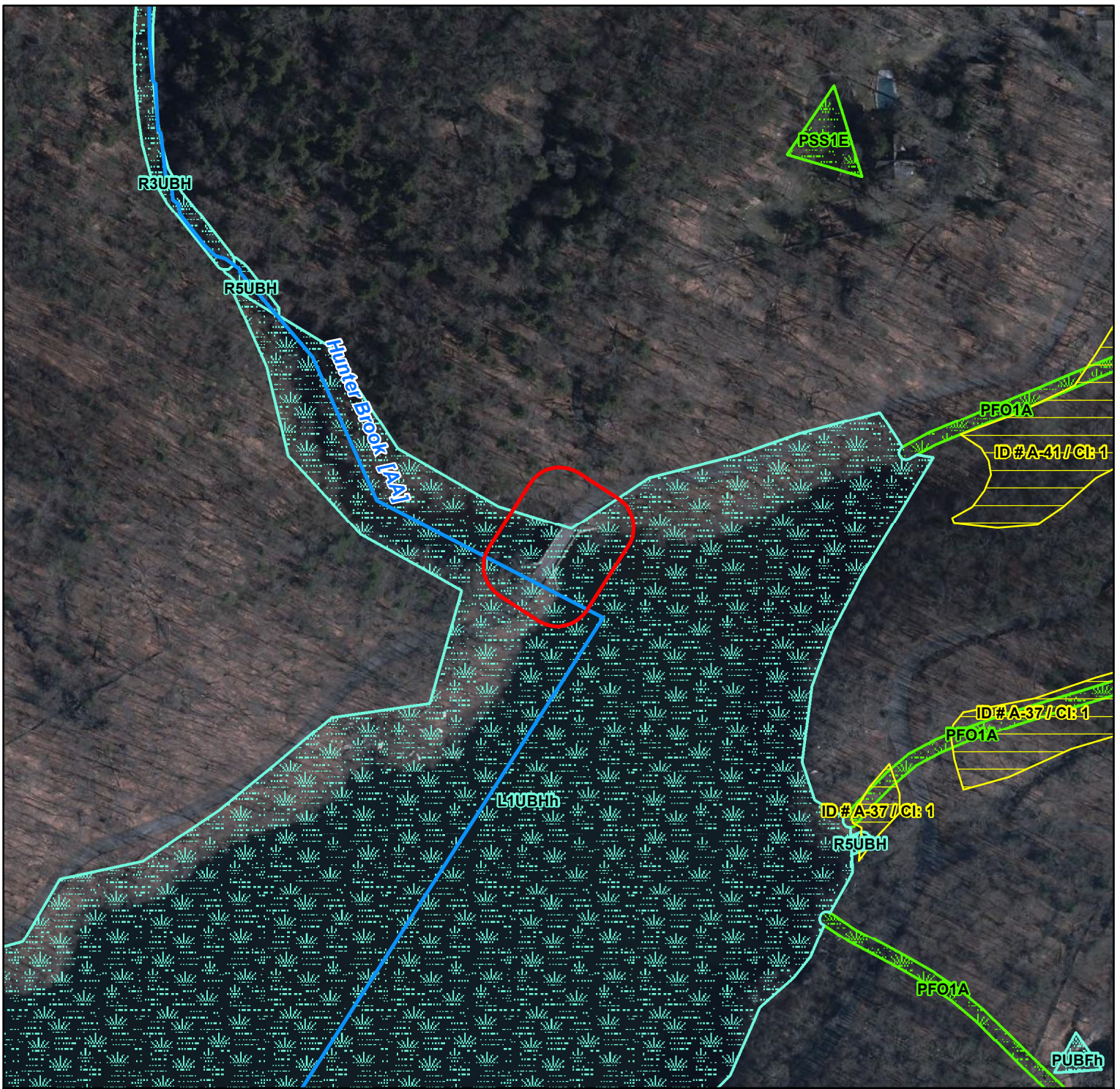
Sources:  
 Soil Survey Geographic (SSURGO) database for Westchester County, New York,  
 U.S. Department of Agriculture, Natural Resources Conservation Service, Fort Worth, Texas, December 2013.  
 2016 Imagery in Westchester County, NY Statewide Digital Orthoimagery Program (NYSDOP)  
 Imagery Coverage, Statewide Web Map Service Regional Coverage from 2000 to 2017,  
 NYS Division of Homeland Security and Emergency Services, NYS Cyber Security, distributed 2018.

**Figure 3B**  
**SSURGO Soils Map**






New York City Department of  
 Environmental Protection  
 Contract 530B - Reconstruction of 2 Bridges  
 Cross River Inlet Bridge  
 Town of Lewisboro  
 Westchester County, New York

ASGECI Project # 4294





**Legend**

-  Site Location
-  NWI Freshwater Wetland
-  NYSDEC Wetlands
-  NWI Freshwater Pond, Lake, or Riverine
-  Stream

**WETLAND CLASSIFICATIONS:**  
 L1UBHh - Lacustrine, Limnetic, Unconsolidated Bottom, Permanently Flooded, Diked/Impounded

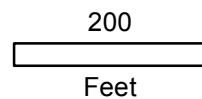
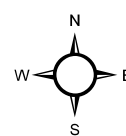
**Water Quality Classifications**  
 AA - Class AA waters are a source of water supply for drinking, culinary or food processing purposes; primary and secondary contact recreation; and fishing

Sources: New York State Regulatory Freshwater Wetlands For Westchester County, New York State Department of Environmental Conservation (NYSDEC), Latham, NY, 1999.  
 NWI Classification of Wetlands and Deepwater Habitats of the United States (New York State), U.S. Department of the Interior, Fish and Wildlife Service, National Wetlands Inventory (NWI), Washington, DC., June 2015.  
 2016 Imagery in Westchester County, NY Statewide Digital Orthoimagery Program (NYSDOP)  
 Imagery Coverage, Statewide Web Map Service Regional Coverage from 2000 to 2017,  
 NYS Division of Homeland Security and Emergency Services, NYS Cyber Security, distributed 2018.

**Figure 4A**  
**NWI / NYSDEC Wetlands & Streams Map**

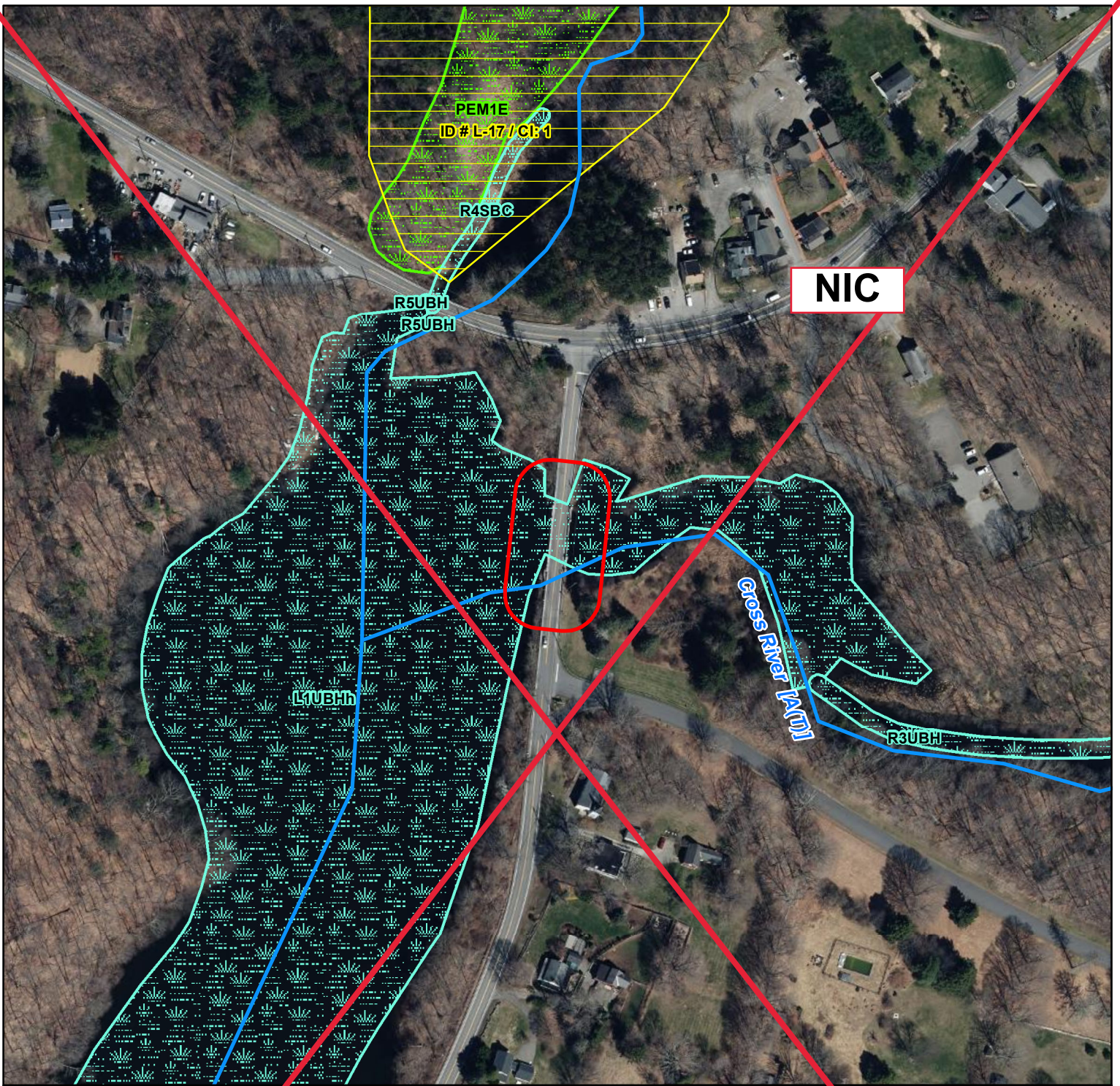
New York City Department of Environmental Protection  
 Contract 530B - Reconstruction of 2 Bridges  
 Baptist Church Road Bridge  
 Town of Yorktown  
 Westchester County, New York

ASGECI Project # 4294



 **AMY S. GREENE**  
**ENVIRONMENTAL**  
**CONSULTANTS**





**Legend**

- Site Location
- NYSDEC Wetlands
- Stream
- NWI Freshwater Wetland
- NWI Freshwater Pond, Lake, or Riverine

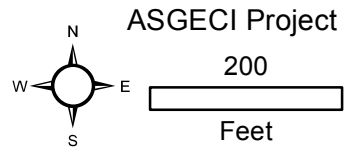
**WETLAND CLASSIFICATIONS:**  
 L1UBHh - Lacustrine, Limnetic, Unconsolidated Bottom, Permanently Flooded, Diked/Impounded

**Water Quality Classifications**  
 A - Class A waters are a source of water supply for drinking, culinary or food processing purposes; primary and secondary contact recreation; and fishing  
 T - trout waters

Sources: New York State Regulatory Freshwater Wetlands For Westchester County, New York, State Department of Environmental Conservation (NYSDEC), Latham, NY, 1999.  
 NWI Classification of Wetlands and Deepwater Habitats of the United States (New York State), U.S. Department of the Interior, Fish and Wildlife Service, National Wetlands Inventory (NWI), Washington, DC., June 2015.  
 2016 Imagery in Westchester County, NY Statewide Digital Orthoimagery Program (NYSDOP)  
 Imagery Coverage, Statewide Web Map Service Regional Coverage from 2000 to 2017,  
 NYS Division of Homeland Security and Emergency Services, NYS Cyber Security, distributed 2018.

**Figure 4B  
 NWI / NYSDEC Wetlands & Streams Map**

New York City Department of Environmental Protection  
 Contract 530B - Reconstruction of 2 Bridges  
 Cross River Inlet Bridge  
 Town of Lewisboro  
 Westchester County, New York



**APPENDIX B**

**SAMPLING STATION DATA SHEETS**

**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: CR-530B - Reconstruction of 2 Bridges  
Baptist Church Road Bridge City/County: Town of Yorktown/  
Westchester Sampling Date: 11/7/2018  
 Applicant/Owner: NY City Department of Environmental Protection State: NY Sampling Point: SS-1  
 Investigator(s): D. Chabrak Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Toeslope Local relief (concave, convex, none): Concave Slope (%): 01  
 Subregion (LRR or MLRA): LRR R Lat: 41.259426° Long: -73.842532° Datum: WGS84  
 Soil Map Unit Name: CUD-Chatfield-Hollis-Rock outcrop complex, 15-35% slopes NWI classification: L1UBHh  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No \_\_\_\_\_ (If no, explain in Remarks.)  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? No  Are "Normal Circumstances" present? Yes  No \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? No (If needed, explain any answers in Remarks.)

**SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____ Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____ Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____ If yes, optional Wetland Site ID: <u>PFO fringe</u>
Remarks: (Explain alternative procedures here or in a separate report.) <u>Wetland A datapoint, located adjacent to flag A8.</u>	

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b> <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input checked="" type="checkbox"/> Surface Water (A1) _____ <input checked="" type="checkbox"/> High Water Table (A2) _____ <input checked="" type="checkbox"/> Saturation (A3) _____ <input checked="" type="checkbox"/> Water Marks (B1) _____ _____ Sediment Deposits (B2) _____ _____ Drift Deposits (B3) _____ _____ <b>Algal Mat or Crust (B4)</b> _____ _____ Iron Deposits (B5) _____ _____ Inundation Visible on Aerial Imagery (B7) _____ _____ Sparsely Vegetated Concave Surface (B8) _____ _____ Water-Stained Leaves (B9) _____ _____ Aquatic Fauna (B13) _____ _____ Marl Deposits (B15) _____ _____ Hydrogen Sulfide Odor (C1) _____ _____ Oxidized Rhizospheres on Living Roots (C3) _____ _____ Presence of Reduced Iron (C4) _____ _____ Recent Iron Reduction in Tilled Soils (C6) _____ _____ Thin Muck Surface (C7) _____ _____ Other (Explain in Remarks) _____	<u>Secondary Indicators (minimum of two required)</u> _____ Surface Soil Cracks (B6) _____ _____ Drainage Patterns (B10) _____ _____ Moss Trim Lines (B16) _____ _____ Dry-Season Water Table (C2) _____ _____ Crayfish Burrows (C8) _____ _____ Saturation Visible on Aerial Imagery (C9) _____ _____ Stunted or Stressed Plants (D1) _____ <input checked="" type="checkbox"/> Geomorphic Position (D2) _____ _____ Shallow Aquitard (D3) _____ _____ Microtopographic Relief (D4) _____ _____ FAC-Neutral Test (D5) _____
<b>Field Observations:</b> Surface Water Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>1-2"</u> Water Table Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>0"</u> Saturation Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>0"</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	

**VEGETATION – Use scientific names of plants.**

Sampling Point: SS-1

Tree Stratum (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Ulmus americanus</u>	<u>15%</u>	<u>*</u>	<u>FACW</u>
2. <u>Fraxinus pennsylvanica</u>	<u>10%</u>	<u>*</u>	<u>FACW</u>
3. _____			
4. _____			
5. _____			
6. _____			
7. _____			

Sapling/Shrub Stratum (Plot size: <u>15'</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Carpinus caroliniana</u>	<u>15%</u>	<u>*</u>	<u>FAC</u>
2. <u>Ilex verticillata</u>	<u>10%</u>	<u>*</u>	<u>FACW</u>
3. _____			
4. _____			
5. _____			
6. _____			
7. _____			

Herb Stratum (Plot size: <u>5'</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>None</u>			
2. _____			
3. _____			
4. _____			
5. _____			
6. _____			
7. _____			
8. _____			
9. _____			
10. _____			
11. _____			
12. _____			

Woody Vine Stratum (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>None</u>			
2. _____			
3. _____			
4. _____			

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)

**Prevalence Index worksheet:**

Total % Cover of:	Multiply by:
OBL species <u>0%</u>	x 1 = <u>0</u>
FACW species <u>35%</u>	x 2 = <u>70</u>
FAC species <u>15%</u>	x 3 = <u>45</u>
FACU species <u>0%</u>	x 4 = <u>0</u>
UPL species <u>0%</u>	x 5 = <u>0</u>
Column Totals: <u>50%</u> (A)	<u>115</u> (B)

Prevalence Index = B/A = 2.3

- Hydrophytic Vegetation Indicators:**
- 1 - Rapid Test for Hydrophytic Vegetation
  - 2 - Dominance Test is >50%
  - 3 - Prevalence Index is ≤3.0<sup>1</sup>
  - 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
  - Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)
- <sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Definitions of Vegetation Strata:**

**Tree** – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

**Sapling/shrub** – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

**Herb** – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

**Woody vines** – All woody vines greater than 3.28 ft in height.

**Hydrophytic Vegetation Present?** Yes  No

Remarks: (Include photo numbers here or on a separate sheet.)

**SOIL**

Sampling Point: SS-1

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-12"	10YR 2/1	100%	10YR 5/8	21	C	M	Sandy loam	
12"+	Refusal - Rock							

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Coast Prairie Redox (A16) (LRR K, L, R)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Dark Surface (S7) (LRR K, L)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R)
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B)
<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (F21)
<input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)
	<input type="checkbox"/> Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if observed):</b> Type: _____ Depth (inches): _____	Hydric Soil Present?    Yes <input checked="" type="checkbox"/> No _____
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Remarks:

**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: CRO-530B - Reconstruction of 2 Bridges City/County: Town of Yorktown/Westchester Sampling Date: 11/7/2018  
 Applicant/Owner: NY City Department of Environmental Protection State: NY Sampling Point: SS-2  
 Investigator(s): D. Chabrak Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Concave Slope (%): 20%  
 Subregion (LRR or MLRA): LRR R Lat: 41.259315° Long: -73.842365° Datum: WGS84  
 Soil Map Unit Name: CoD-Chatfield-Hollis-Rock outcrop complex, 15-35% slopes NWI classification: L1UBHh  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No \_\_\_\_\_ (If no, explain in Remarks.)  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? No Are "Normal Circumstances" present? Yes  No \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? No (If needed, explain any answers in Remarks.)

**SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/> Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) <u>Upland datapoint, adjacent to Wetland flag A8. Located on rocky roadside embankment.</u>	

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b> <u>Primary Indicators (minimum of one is required; check all that apply)</u> ___ Surface Water (A1)      ___ Water-Stained Leaves (B9) ___ High Water Table (A2)      ___ Aquatic Fauna (B13) ___ Saturation (A3)      ___ Marl Deposits (B15) ___ Water Marks (B1)      ___ Hydrogen Sulfide Odor (C1) ___ Sediment Deposits (B2)      ___ Oxidized Rhizospheres on Living Roots (C3) ___ Drift Deposits (B3)      ___ Presence of Reduced Iron (C4) ___ Algal Mat or Crust (B4)      ___ Recent Iron Reduction in Tilled Soils (C6) ___ Iron Deposits (B5)      ___ Thin Muck Surface (C7) ___ Inundation Visible on Aerial Imagery (B7)      ___ Other (Explain in Remarks) ___ Sparsely Vegetated Concave Surface (B8)	<u>Secondary Indicators (minimum of two required)</u> ___ Surface Soil Cracks (B6) ___ Drainage Patterns (B10) ___ Moss Trim Lines (B16) ___ Dry-Season Water Table (C2) ___ Crayfish Burrows (C8) ___ Saturation Visible on Aerial Imagery (C9) ___ Stunted or Stressed Plants (D1) ___ Geomorphic Position (D2) ___ Shallow Aquitard (D3) ___ Microtopographic Relief (D4) ___ FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____	Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: _____ _____	
Remarks: _____ _____	

**VEGETATION** – Use scientific names of plants.

Sampling Point: SS-2

Tree Stratum (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Quercus velutina</u>	<u>25%</u>	<u>*</u>	<u>UPL</u>	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)  Total Number of Dominant Species Across All Strata: <u>3</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33.3%</u> (A/B)
2. <u>Ulmus americana</u>	<u>15%</u>	<u>*</u>	<u>FACW</u>	
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
Sapling/Shrub Stratum (Plot size: <u>15'</u> ) <u>40%</u> = Total Cover <u>20%</u> <u>8%</u>				<b>Prevalence Index worksheet:</b> Total % Cover of: _____ Multiply by: _____ OBL species <u>0%</u> x 1 = <u>0</u> FACW species <u>15%</u> x 2 = <u>30</u> FAC species <u>0%</u> x 3 = <u>0</u> FACU species <u>0%</u> x 4 = <u>0</u> UPL species <u>40%</u> x 5 = <u>200</u> Column Totals: <u>55%</u> (A) <u>230</u> (B)  Prevalence Index = B/A = <u>4.18</u>
1. <u>None</u>				
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
Herb Stratum (Plot size: <u>5'</u> ) <u>0%</u> = Total Cover				<b>Hydrophytic Vegetation Indicators:</b> <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>None</u>				
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
11. _____				
12. _____				
Woody Vine Stratum (Plot size: <u>30'</u> ) <u>0%</u> = Total Cover				<b>Definitions of Vegetation Strata:</b> <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
1. <u>Celastrus orbiculatus</u>	<u>15%</u>	<u>*</u>	<u>UPL</u>	
2. _____				
3. _____				
4. _____				
<u>15%</u> = Total Cover				<b>Hydrophytic Vegetation Present?</b> Yes _____ No <input checked="" type="checkbox"/>
Remarks: (Include photo numbers here or on a separate sheet.)				

**SOIL**

Sampling Point: SS-2

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
	No Soils - 100% rock embankment							

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, M=Matrix.

- |  |  |   |
|--|--|---|
| <p><b>Hydric Soil Indicators:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Histosol (A1)</li> <li><input type="checkbox"/> Histic Epipedon (A2)</li> <li><input type="checkbox"/> Black Histic (A3)</li> <li><input type="checkbox"/> Hydrogen Sulfide (A4)</li> <li><input type="checkbox"/> Stratified Layers (A5)</li> <li><input type="checkbox"/> Depleted Below Dark Surface (A11)</li> <li><input type="checkbox"/> Thick Dark Surface (A12)</li> <li><input type="checkbox"/> Sandy Mucky Mineral (S1)</li> <li><input type="checkbox"/> Sandy Gleyed Matrix (S4)</li> <li><input type="checkbox"/> Sandy Redox (S5)</li> <li><input type="checkbox"/> Stripped Matrix (S6)</li> <li><input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B)</li> </ul> | <ul style="list-style-type: none"> <li><input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B)</li> <li><input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B)</li> <li><input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L)</li> <li><input type="checkbox"/> Loamy Gleyed Matrix (F2)</li> <li><input type="checkbox"/> Depleted Matrix (F3)</li> <li><input type="checkbox"/> Redox Dark Surface (F6)</li> <li><input type="checkbox"/> Depleted Dark Surface (F7)</li> <li><input type="checkbox"/> Redox Depressions (F8)</li> </ul> | <p><b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B)</li> <li><input type="checkbox"/> Coast Prairie Redox (A16) (LRR K, L, R)</li> <li><input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)</li> <li><input type="checkbox"/> Dark Surface (S7) (LRR K, L)</li> <li><input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L)</li> <li><input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L)</li> <li><input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R)</li> <li><input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B)</li> <li><input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B)</li> <li><input type="checkbox"/> Red Parent Material (F21)</li> <li><input type="checkbox"/> Very Shallow Dark Surface (TF12)</li> <li><input type="checkbox"/> Other (Explain in Remarks)</li> </ul> |
|--|--|---|

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<p><b>Restrictive Layer (if observed):</b></p> <p>Type: _____</p> <p>Depth (inches): _____</p>	<p>Hydric Soil Present?    Yes _____    No <input checked="" type="checkbox"/></p>
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Remarks:



**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: CRO-530B - Reconstruction of 2 Bridges City/County: Town of Lewisboro / Westchester Sampling Date: 11/7/2018  
 Applicant/Owner: NY City Department of Environmental Protection State: NY Sampling Point: SS-1  
 Investigator(s): D. Chabrak Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Toeslope Local relief (concave, convex, none): Concave Slope (%): 0%  
 Subregion (LRR or MLRA): LRR R Lat: 41.262318° Long: -73.614939° Datum: NAD83  
 Soil Map Unit Name: Ff-Fluviogyps - Udifluvents complex, frequently flooded NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No \_\_\_\_\_ (If no, explain in Remarks.)  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? No Are "Normal Circumstances" met? Yes  No \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? No (If needed, explain any answers in Remarks.)

**NIC**

**SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____ Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____ Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____ If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) <p align="center"><i>Wetland B datapoint, located adjacent to flag B8.</i></p>	

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b> Primary Indicators (minimum of one is required; check all that apply): ___ Surface Water (A1) ___ Water-Stained Leaves (B9) <input checked="" type="checkbox"/> High Water Table (A2) ___ Aquatic Fauna (B1) <input checked="" type="checkbox"/> Saturation (A3) ___ Marl Deposits (B4/5) ___ Water Marks (B1) ___ Hydrogen Sulfide Odor (C1) ___ Sediment Deposits (B2) ___ Oxidized Rhizospheres on Living Roots (C3) ___ Drift Deposits (B3) ___ Presence of Reduced Iron (C4) ___ Algal Mat or Crust (B4) ___ Recent Iron Reduction in Tilled Soils (C6) ___ Iron Deposits (B5) ___ Thin Muck Surface (C7) ___ Inundation Visible on Aerial Imagery (B7) ___ Other (Explain in Remarks) ___ Sparsely Vegetated Concave Surface (B8)	Secondary Indicators (minimum of two required): ___ Surface Soil Cracks (B6) ___ Drainage Patterns (B10) ___ Moss Trim Lines (B16) ___ Dry-Season Water Table (C2) ___ Crayfish Burrows (C8) ___ Saturation Visible on Aerial Imagery (C9) ___ Stunted or Stressed Plants (D1) <input checked="" type="checkbox"/> Geomorphic Position (D2) ___ Shallow Aquitard (D3) ___ Microtopographic Relief (D4) ___ FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>8"</u> Saturation Present? (includes capillary fringe) Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>0"</u>	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	

VEGETATION – Use scientific names of plants.

Sampling Point: SS-1

Tree Stratum (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>None</u>			
2.			
3.			
4.			
5.			
6.			
7.			

0% = Total Cover

Sapling/Shrub Stratum (Plot size: <u>15'</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Rosa palustris</u>	<u>10%</u>	<u>*</u>	<u>OBL</u>
2.			
3.			
4.			
5.			
6.			
7.			

10% = Total Cover

Herb Stratum (Plot size: <u>5'</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Carex stricta</u>	<u>20%</u>	<u>*</u>	<u>OBL</u>
2. <u>Typha angustifolia</u>	<u>15%</u>	<u>*</u>	<u>OBL</u>
3. <u>Iris sp. *</u>	<u>10%</u>	<u>*</u>	<u>OBL</u>
4. <u>Lythrum salicaria</u>	<u>5%</u>		<u>OBL</u>
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			

50% = Total Cover  
25% 10%

Woody Vine Stratum (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>None</u>			
2.			
3.			
4.			

0% = Total Cover

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)

**NIC**

**Prevalence Index**

Total % Cover of:	Multiply by:
OBL species <u>60%</u>	x 1 = <u>60</u>
FACW species <u>0%</u>	x 2 = <u>0</u>
FAC species <u>0%</u>	x 3 = <u>0</u>
FACU species <u>0%</u>	x 4 = <u>0</u>
UPL species <u>0%</u>	x 5 = <u>0</u>
Column Totals: <u>60%</u> (A)	<u>60</u> (B)
Prevalence Index = B/A = <u>1.0</u>	

- Hydrophytic Vegetation Indicators:**
- 1 - Rapid Test for Hydrophytic Vegetation
  - 2 - Dominance Test is >50%
  - 3 - Prevalence Index is ≤3.0<sup>1</sup>
  - 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
- Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)
- <sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Definitions of Vegetation Strata:**

**Tree** – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

**Sapling/shrub** – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

**Herb** – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

**Woody vines** – All woody vines greater than 3.28 ft in height.

**Hydrophytic Vegetation Present?** Yes  No

Remarks: (Include photo numbers here or on a separate sheet.)

\* Could not identify iris to species. However, common species in area (I. prismatica, I. pseudacorus, I. versicolor, & I. virginica.) are all considered 'OBL.'

**SOIL**

Sampling Point: SS-1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-30"	10YR 4/2	95%	10YR 5/8	5%	C	M	Silt loam	

**NIC**

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, M=Matrix.

**Hydric Soil Indicators:**

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7) (LRR R, MLRA 149B)

- Polyvalue Below Surface (S8) (LRR R, MLRA 149B)
- Thin Dark Surface (S9) (LRR R, MLRA 149B)
- Loamy Mucky Mineral (F1) (LRR K, L)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- 2 cm Muck (A10) (LRR K, L, MLRA 149B)
- Coast Prairie Redox (A16) (LRR K, L, R)
- 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
- Dark Surface (S7) (LRR K, L)
- Polyvalue Below Surface (S8) (LRR K, L)
- Thin Dark Surface (S9) (LRR K, L)
- Iron-Manganese Masses (F12) (LRR K, L, R)
- Piedmont Floodplain Soils (F19) (MLRA 149B)
- Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
- Red Parent Material (F21)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**

Type: \_\_\_\_\_  
 Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes  No

Remarks:

**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: CRO 530B- Reconstruction of 2 Bridges City/County: Town of Lewisboro/Westchester Sampling Date: 11/7/2018  
 Applicant/Owner: NY City Department of Environmental Protection State: NY Sampling Point: SS-2  
 Investigator(s): D. Chabrak Section, Township, Range: \_\_\_\_\_

Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Concave Slope (%): 2%  
 Subregion (LRR or MLRA): LRR R Lat: 41.262324° Long: -73.614810° Datum: WGS84

Soil Map Unit Name: RhB-Riverhead loam, 3-8% slopes NWI classification: None  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No \_\_\_\_\_ (If no, explain) \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? No  Are "Normal Circumstances" **NIC** Yes  No \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? No  (If needed, explain any answers in Remarks)

**SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/>
Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____	If yes, optional Wetland Site ID: _____
Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	

Remarks: (Explain alternative procedures here or in a separate report.)  
Upland datapoint adjacent to Wetland flag B8.  
Area has hydric soils & wetland hydrology, but vegetation community is non-hydrophytic.

**HYDROLOGY**

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
<u>Primary Indicators (minimum of one is required; check all that apply)</u>		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)
		<input type="checkbox"/> FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____
Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____	
Saturation Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>0"</u>	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

**VEGETATION – Use scientific names of plants.**

Sampling Point: SS-2

Tree Stratum (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Acer platanoides</u>	<u>15%</u>	<u>*</u>	<u>UPL</u>
2. _____			
3. _____			
4. _____			
5. _____			
6. _____			
7. _____			

Sapling/Shrub Stratum (Plot size: <u>15'</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Lonicera morrowii</u>	<u>65%</u>	<u>*</u>	<u>FACU</u>
2. <u>Rosa multiflora</u>	<u>10%</u>		<u>FACU</u>
3. <u>Privet sp.</u>	<u>10%</u>		<u>NIS</u>
4. _____			
5. _____			
6. _____			
7. _____			

Herb Stratum (Plot size: <u>5'</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Carex stricta</u>	<u>5%</u>	<u>*</u>	<u>OBL</u>
2. _____			
3. _____			
4. _____			
5. _____			
6. _____			
7. _____			
8. _____			
9. _____			
10. _____			
11. _____			
12. _____			

Woody Vine Stratum (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>None</u>	<u>0%</u>		
2. _____			
3. _____			
4. _____			

Remarks: (Include photo numbers here or on a separate sheet.)

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3% (A/B)

**Prevalence Index** **NIC**

Total % Cover of:	Multiply by:
OBL species <u>5%</u>	x 1 = <u>5</u>
FACW species <u>0%</u>	x 2 = <u>0</u>
FAC species <u>0%</u>	x 3 = <u>0</u>
FACU species <u>45%</u>	x 4 = <u>300</u>
UPL species <u>15%</u>	x 5 = <u>75</u>
Column Totals: <u>95%</u> (A)	<u>380</u> (B)

Prevalence Index = B/A = 4.0

- Hydrophytic Vegetation Indicators:**
- 1 - Rapid Test for Hydrophytic Vegetation
  - 2 - Dominance Test is >50%
  - 3 - Prevalence Index is  $\leq 3.0^1$
  - 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
  - Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)
- <sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Definitions of Vegetation Strata:**

**Tree** – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

**Sapling/shrub** – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

**Herb** – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

**Woody vines** – All woody vines greater than 3.28 ft in height.

**Hydrophytic Vegetation Present?** Yes  No

**SOIL**

Sampling Point: SS-2

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-12"	10YR 4/2	95%	10YR 5/8	5%	C	M	Silt loam	
12-20"	10YR 4/3	95%	10YR 5/8	5%	C	M	Silt loam	

**NIC**

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, M=Matrix.

**Hydric Soil Indicators:**

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7) (LRR R, MLRA 149B)

- Polyvalue Below Surface (S8) (LRR R, MLRA 149B)
- Thin Dark Surface (S9) (LRR R, MLRA 149B)
- Loamy Mucky Mineral (F1) (LRR K, L)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- 2 cm Muck (A10) (LRR K, L, MLRA 149B)
- Coast Prairie Redox (A16) (LRR K, L, R)
- 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
- Dark Surface (S7) (LRR K, L)
- Polyvalue Below Surface (S8) (LRR K, L)
- Thin Dark Surface (S9) (LRR K, L)
- Iron-Manganese Masses (F12) (LRR K, L, R)
- Piedmont Floodplain Soils (F19) (MLRA 149B)
- Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
- Red Parent Material (F21)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**

Type: \_\_\_\_\_  
 Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes  No

Remarks:

**APPENDIX C**

**COLOR PHOTOGRAPHS WITH DESCRIPTIONS**



**Photo A Baptist Church Road Bridge:** View facing west showing non-wetland water edge of New Croton Reservoir along toe of roadway slope. **Date Taken: November 7, 2018.**

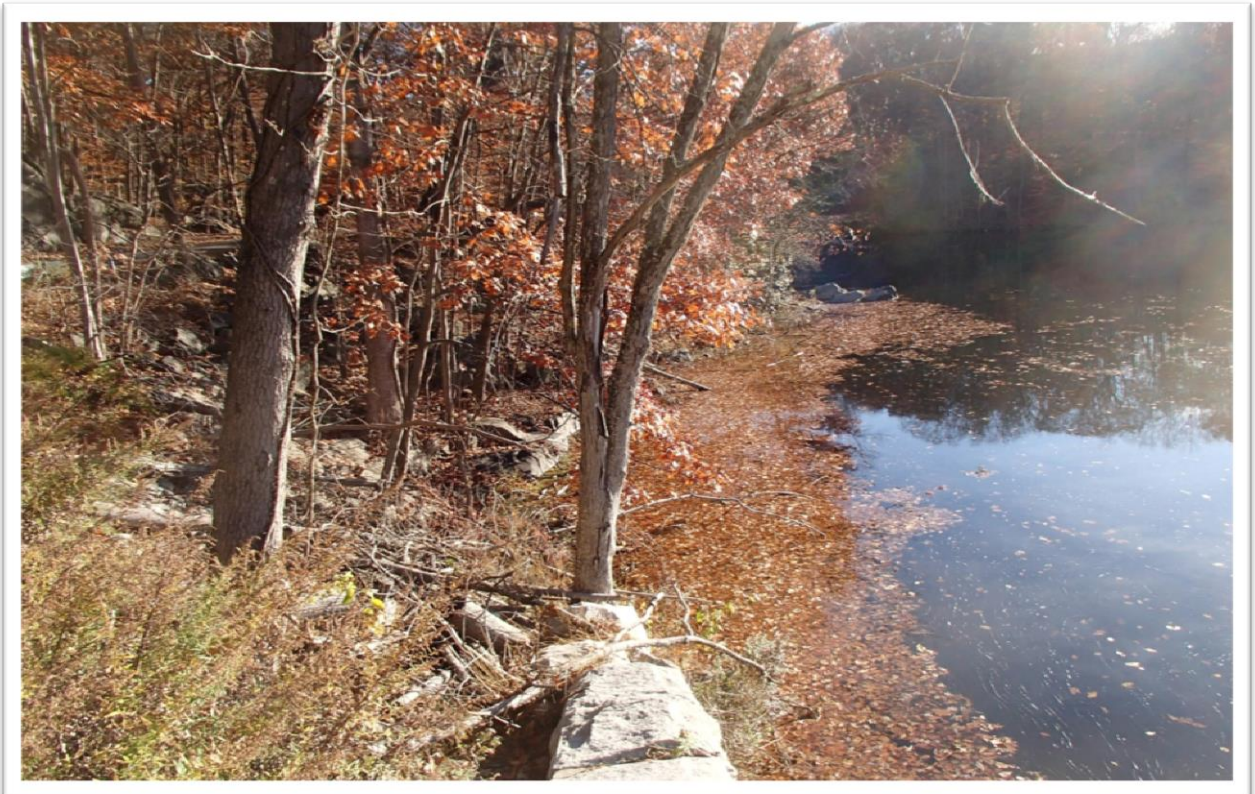


**Photo B Baptist Church Road Bridge:** View facing east from the western side of the bridge showing existing bridge and New Croton Reservoir. **Date Taken: November 7, 2018.**





**Photo C Baptist Church Road Bridge:** View facing west along the northwestern bank showing wetland fringe at point B-8. **Date Taken: November 7, 2018.**



**Photo D Baptist Church Road Bridge:** View facing east from the eastern side of the bridge showing non-wetland water edge of New Croton Reservoir. **Date Taken: November 8, 2018.**



**Photo E Baptist Church Road Bridge:** View facing north from the eastern side of the bridge showing existing non-wetland water edge along New Croton Reservoir. **Date Taken: November 8, 2018.**



**Photo F Cross River Inlet Bridge:** View facing north from the southern side of the bridge showing existing non-wetland water edge along Cross River Reservoir. **Date Taken: November 7, 2018.**



**Photo G Cross River Inlet Bridge:** View facing south from the southern side of the bridge showing non-wetland water edge of Cross River Reservoir. **Date Taken: November 7, 2018.**



**Photo H Cross River Inlet Bridge:** View facing north from the southern side of the bridge showing existing bridge with wetlands in background across the water. **Date Taken: November 7, 2018.**



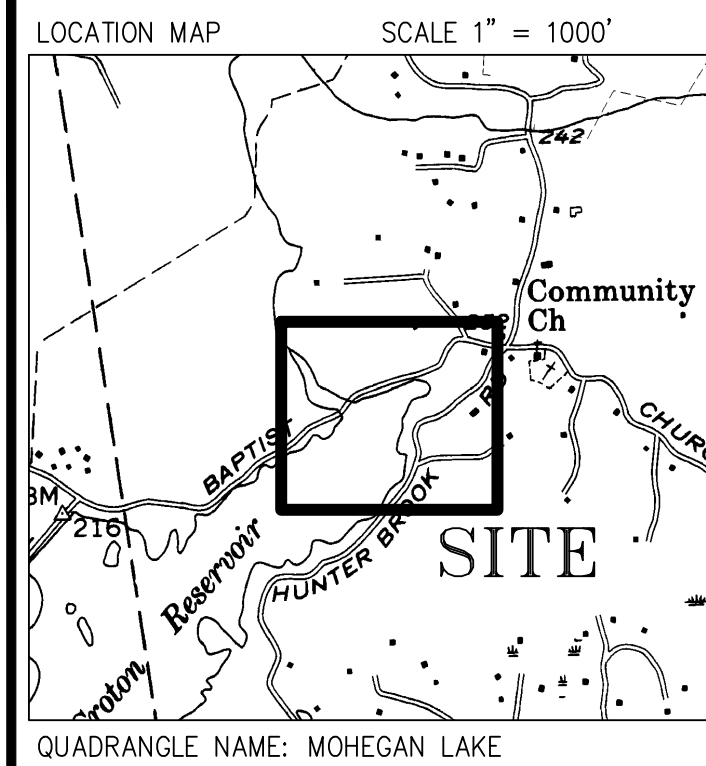
**Photo I Cross River Inlet Bridge:** View facing north from southern side of the bridge showing existing slope leading to non-wetland water edge of Cross River Reservoir. **Date Taken: November 7, 2018.**



**Photo J Cross River Inlet Bridge:** View facing north from the northern side of the bridge showing existing wetlands along edge of Cross River Reservoir. **Date Taken: November 7, 2018.**

**APPENDIX D**

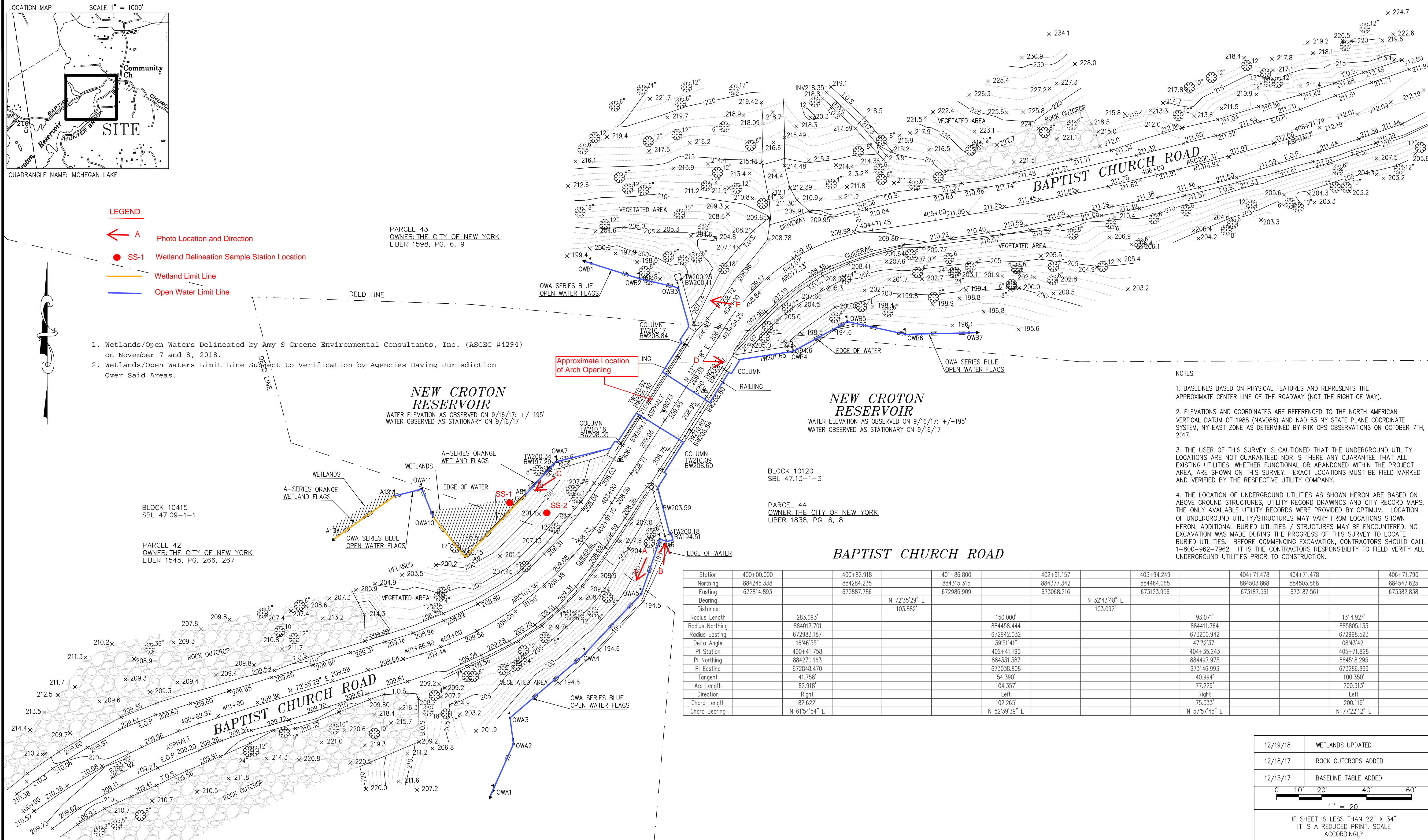
**TOPOGRAPHIC MAPS**  
**(Showing Wetland Delineation)**



**LEGEND**

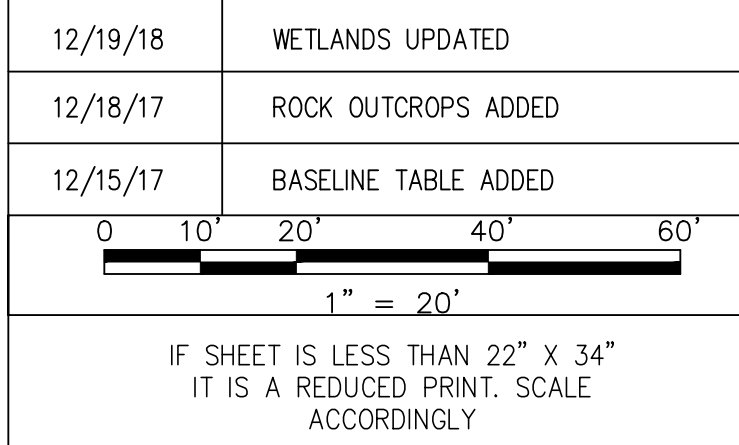
- A Photo Location and Direction
- SS-1 Wetland Delineation Sample Station Location
- Wetland Limit Line
- Open Water Limit Line

1. Wetlands/Open Waters Delineated by Amy S Greene Environmental Consultants, Inc. (ASGEC #4294) on November 7 and 8, 2018.
2. Wetlands/Open Waters Limit Line Subject to Verification by Agencies Having Jurisdiction Over Said Areas.



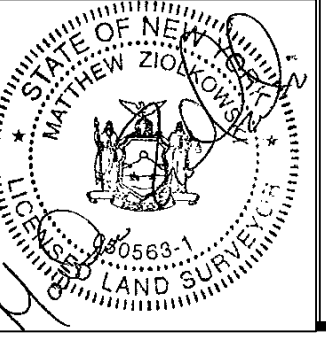
- NOTES:
1. BASELINES BASED ON PHYSICAL FEATURES AND REPRESENTS THE APPROXIMATE CENTER LINE OF THE ROADWAY (NOT THE RIGHT OF WAY).
  2. ELEVATIONS AND COORDINATES ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) AND NAD 83 NY STATE PLANE COORDINATE SYSTEM, NY EAST ZONE AS DETERMINED BY RTK GPS OBSERVATIONS ON OCTOBER 7TH, 2017.
  3. THE USER OF THIS SURVEY IS CAUTIONED THAT THE UNDERGROUND UTILITY LOCATIONS ARE NOT GUARANTEED NOR IS THERE ANY GUARANTEE THAT ALL EXISTING UTILITIES, WHETHER FUNCTIONAL OR ABANDONED WITHIN THE PROJECT AREA, ARE SHOWN ON THIS SURVEY. EXACT LOCATIONS MUST BE FIELD MARKED AND VERIFIED BY THE RESPECTIVE UTILITY COMPANY.
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Station	400+00.000	400+82.918	401+86.800	402+91.157	403+94.249	404+71.478	404+71.478	406+71.790
Northing	884245.338	884284.235	884315.315	884377.342	884464.065	884503.868	884547.625	884547.625
Easting	672814.893	672887.786	672986.909	673068.216	673123.956	673187.561	673187.561	673382.838
Bearing			N 72°35'29" E		N 32°43'48" E			
Distance			103.882'		103.092'			
Radius Length		283.093'		150.000'		93.071'		1314.924'
Radius Northing		884017.701		884458.444		884411.764		885805.133
Radius Easting		672983.187		672942.032		672900.942		672998.523
Delta Angle		16°46'55"		39°51'41"		47°32'37"		08°43'42"
PI Station		400+41.758		402+41.190		404+35.243		405+71.828
PI Northing		884270.163		884331.587		884497.975		884518.295
PI Easting		672848.470		673038.808		673146.993		673286.869
Tangent		41.758'		54.390'		40.994'		100.350'
Arc Length		82.918'		104.357'		77.229'		200.313'
Direction		Right		Left		Right		Left
Chord Length		82.622'		102.265'		75.033'		200.119'
Chord Bearing		N 61°54'54" E		N 52°39'39" E		N 57°57'45" E		N 77°22'12" E



NO.	DATE	REVISIONS/DESCRIPTION	APPR'D.

DESIGNED BY:	N.A.	DRAWN BY:	BR
CHECKED BY:	MZ		
DESIGN LEAD:	N.A.		
SECTION MANAGER:	N.A.		



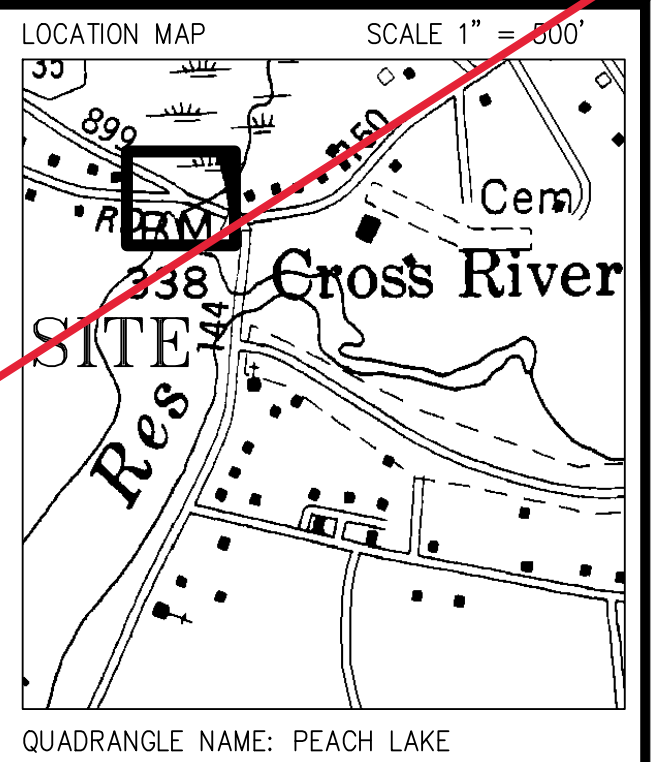
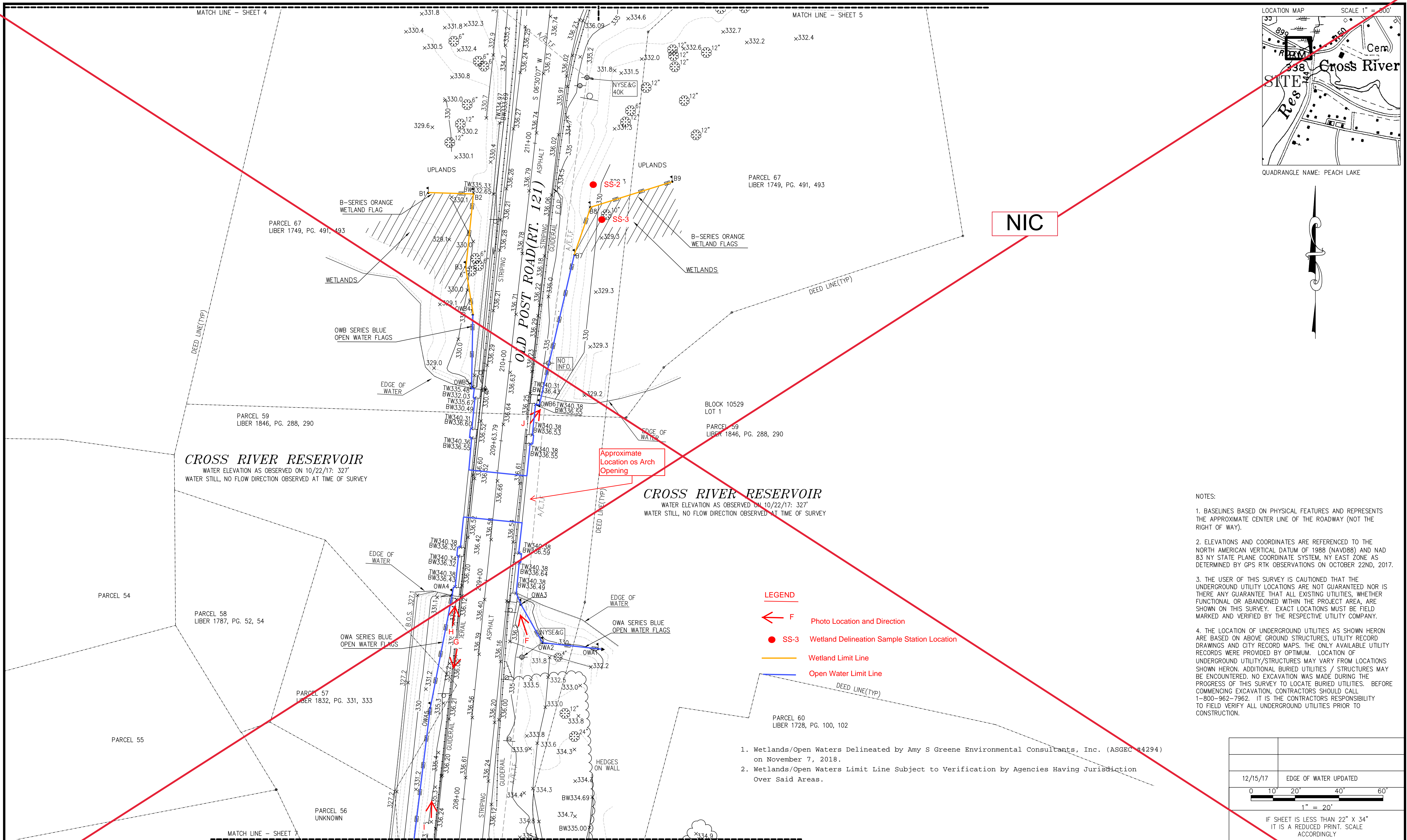
PROJECT MANAGER  
JEFFREY A. BUSSE, P.E.  
CHIEF, DIVISION OF WASTEWATER FACILITIES DESIGN  
DIRECTOR, IN HOUSE DESIGN

\*WARNING--IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW, SECTION, 7209.2, FOR ANY PERSON, UNLESS (S)HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT IN ANY WAY. IF ALTERED, THE ALTERING PERSON SHALL COMPLY WITH THE REQUIREMENTS OF NEW YORK EDUCATION, LAW, SECTION, 7209.2.\*

**NEW YORK CITY ENVIRONMENTAL PROTECTION**  
BUREAU OF ENGINEERING DESIGN & CONSTRUCTION  
96-05 HORACE HARDING EXPRESSWAY 5th FLOOR  
CORONA, NEW YORK 11368  
www.nyc.gov/dep

**CAPITAL PROJECT WM-30**  
IN WESTCHESTER COUNTY, NEW YORK  
**CONTRACT CRO-530B**  
TOPOGRAPHIC MAP  
BAPTIST CHURCH RD. BRIDGE  
TOWN OF YORKTOWN, NY 10598

DATE: 11/28/17  
SCALE: 1"=20'  
SHEET NO: 2 OF 9  
DRAWING NO.



NIC

Approximate Location of Arch Opening

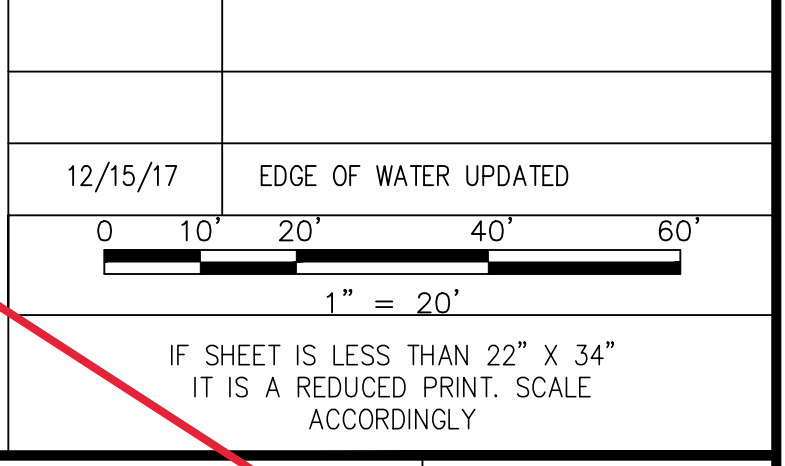
**CROSS RIVER RESERVOIR**  
 WATER ELEVATION AS OBSERVED ON 10/22/17: 327'  
 WATER STILL, NO FLOW DIRECTION OBSERVED AT TIME OF SURVEY

**CROSS RIVER RESERVOIR**  
 WATER ELEVATION AS OBSERVED ON 10/22/17: 327'  
 WATER STILL, NO FLOW DIRECTION OBSERVED AT TIME OF SURVEY

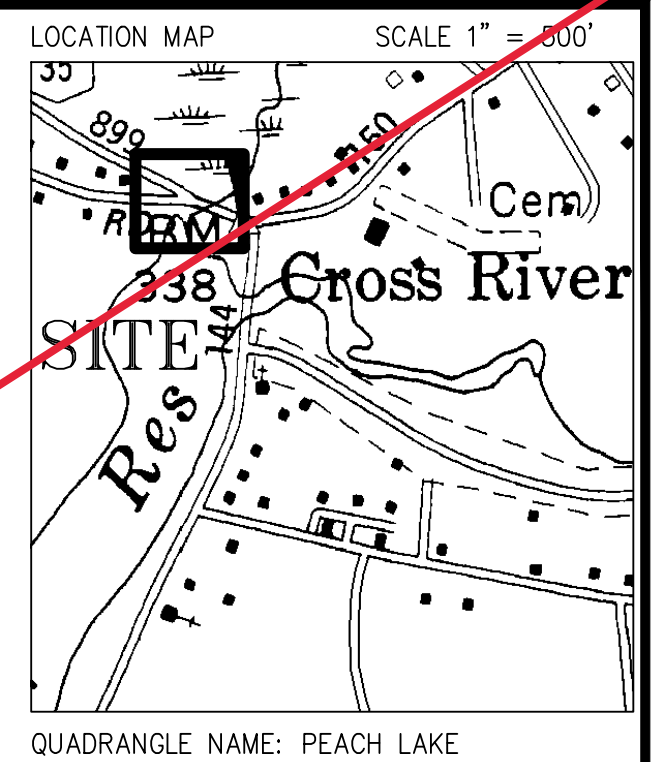
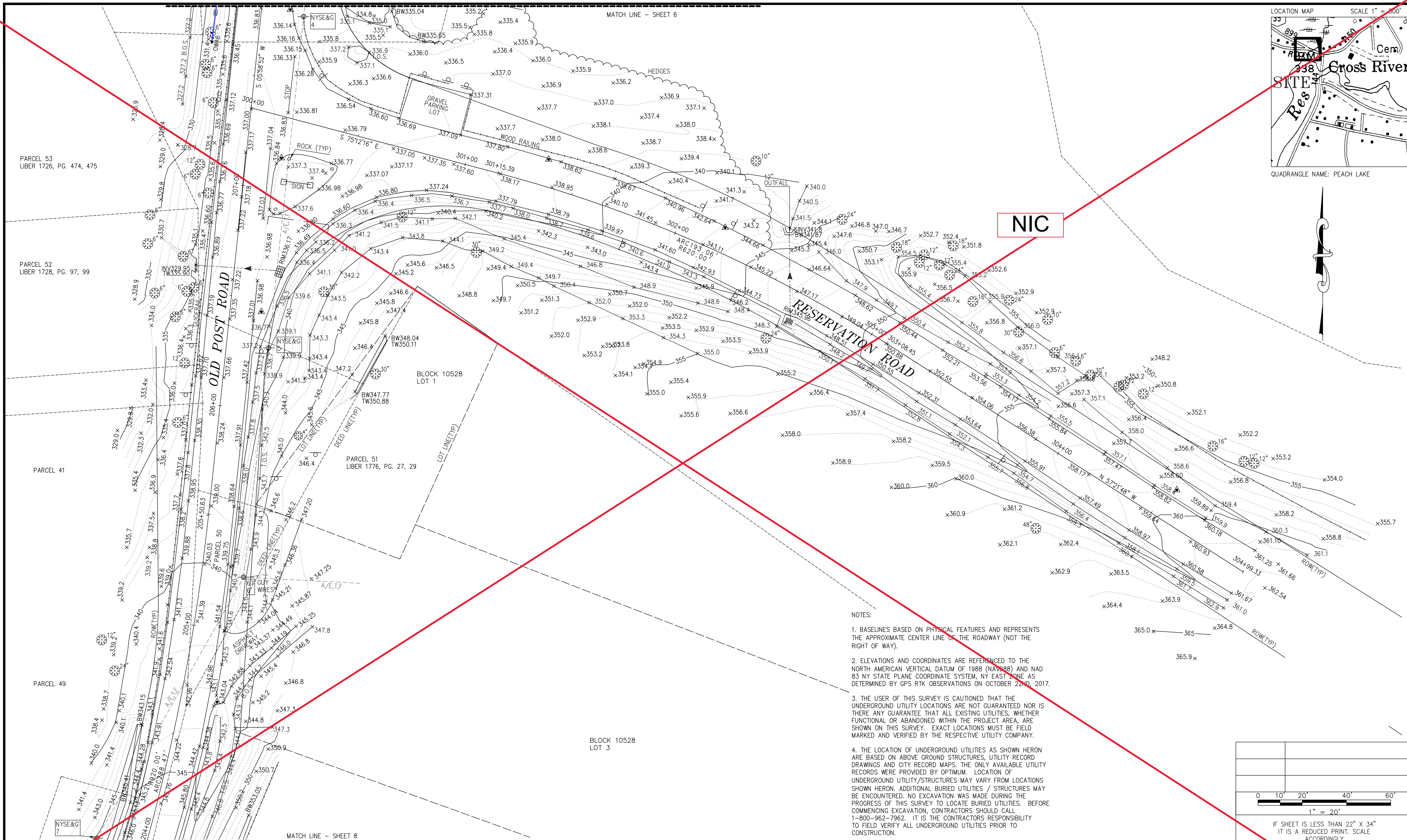
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- LEGEND**
- Photo Location and Direction
  - SS-3 Wetland Delineation Sample Station Location
  - Wetland Limit Line
  - Open Water Limit Line

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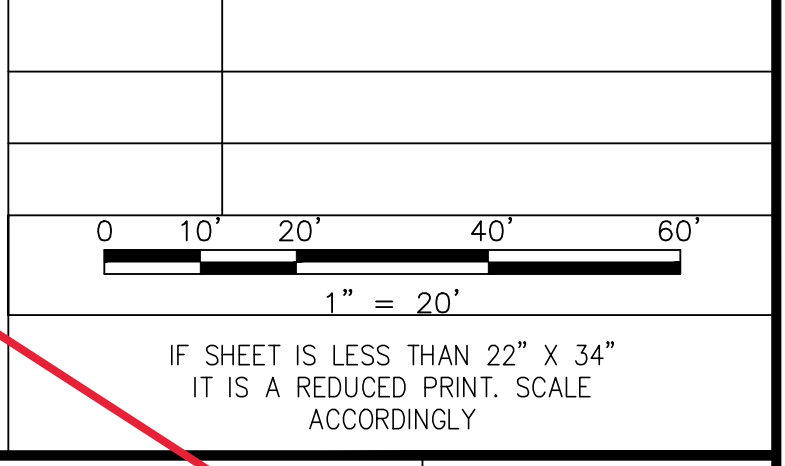


DESIGNED BY: N.A.		DRAWN BY: BR			PROJECT MANAGER JEFFREY A. BUSSE, P.E.	*WARNING—IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW, SECTION, 7209.2, FOR ANY PERSON, UNLESS (S)HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT IN ANY WAY. IF ALTERED, THE ALTERING PERSON SHALL COMPLY WITH THE REQUIREMENTS OF NEW YORK EDUCATION, LAW, SECTION, 7209.2.*	<b>NEW YORK CITY</b> <b>ENVIRONMENTAL PROTECTION</b> BUREAU OF ENGINEERING DESIGN & CONSTRUCTION 96-05 HORACE HARDING EXPRESSWAY 5th FLOOR CORONA, NEW YORK 11368 www.nyc.gov/dep	<b>CAPITAL PROJECT WM-30</b> <b>IN WESTCHESTER COUNTY, NEW YORK</b> <b>CONTRACT CRO-530B</b> TOPOGRAPHIC AND UTILITY SURVEY CROSS RIVER INLET BRIDGE "K" TOWN OF LEWISBORO, NEW YORK 10518	DATE: 12/19/17
CHECKED BY: MZ					CHIEF, DIVISION OF WASTEWATER FACILITIES DESIGN				SHEET NO: 6 OF 9
DESIGN LEAD: N.A.					DIRECTOR, IN HOUSE DESIGN				DRAWING NO.
SECTION MANAGER: N.A.									
NO.	DATE	REVISIONS/DESCRIPTION		APPR'D.					



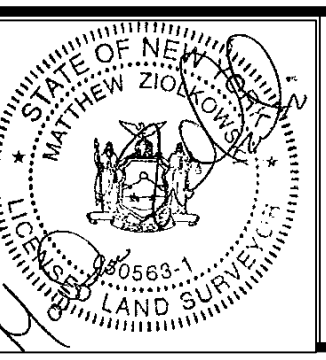
**NIC**

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NO.	DATE	REVISIONS/DESCRIPTION	APPR'D.

DESIGNED BY:	N.A.	DRAWN BY:	BR
CHECKED BY:	MZ		
DESIGN LEAD:	N.A.		
SECTION MANAGER:	N.A.		



PROJECT MANAGER  
JEFFREY A. BUSSE, P.E.

CHIEF, DIVISION OF WASTEWATER FACILITIES DESIGN

DIRECTOR, IN HOUSE DESIGN

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CORONA, NEW YORK 11368  
www.nyc.gov/dep

**CAPITAL PROJECT WM-30**  
**IN WESTCHESTER COUNTY, NEW YORK**  
**CONTRACT CRO-530B**

TOPOGRAPHIC AND UTILITY SURVEY  
CROSS RIVER INLET BRIDGE "K"  
TOWN OF LEWISBORO, NEW YORK 10518

DATE:	12/19/17
SCALE:	1"=20'
SHEET NO.:	7 OF 9
DRAWING NO.:	



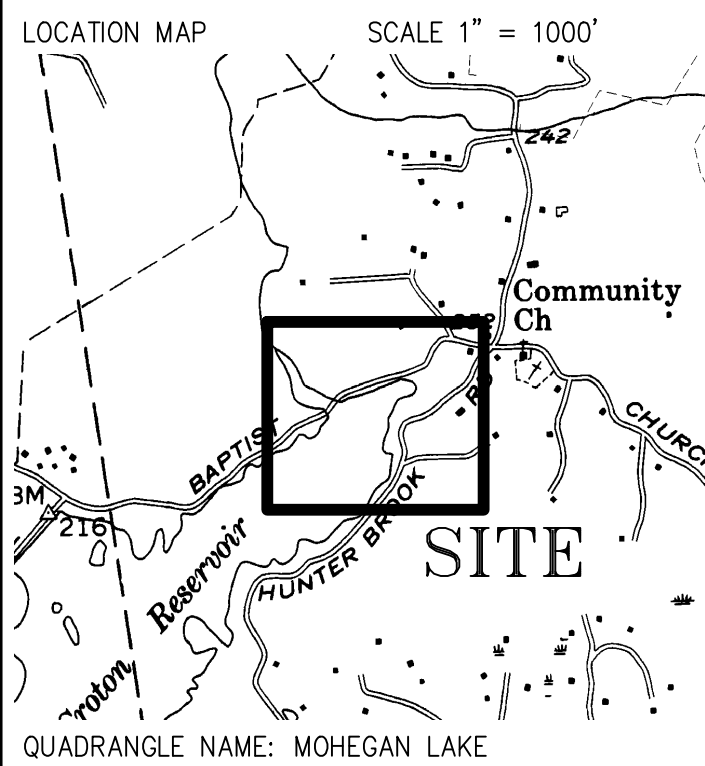
**Attachment D**  
**Tree Survey**

Site: Baptist Church Road Bridge

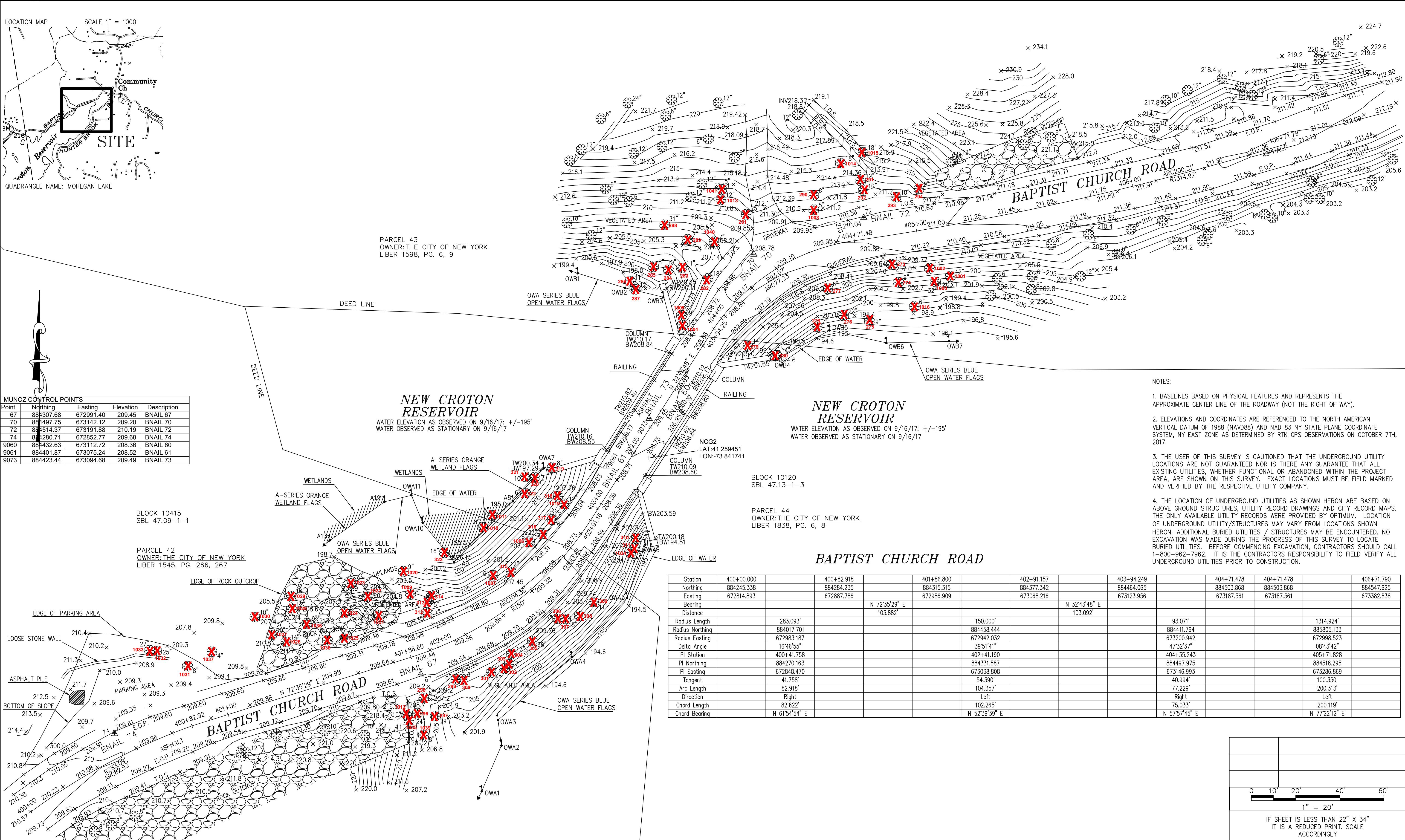
Tree Count	Tree Number	Diameter (in)	Circumference (ft)	Name	Location in Relation to Centerline of Baptist Church Road Bridge/Baptist Church Road
1	273	13	3.40	Red Oak	Northeast
2	274	9	2.36	Shagbark Hickory	Northeast
3	275	9	2.36	Red Oak	Northeast
4	276	22	5.76	Tulip Poplar	Northeast
5	277	6	1.57	Red Maple	Northeast
6	278	7	1.83	Black Oak	Northeast
7	279	14	3.67	Red Oak	Northeast
8	280	14	3.67	Dead American Elm	Northeast
9	281	23	6.02	Red Oak	Northwest
10	282	18	4.71	Red Oak	Northwest
11	283	11	2.88	Red Maple	Northwest
12	284	10	2.62	Red Maple	Northwest
13	285	8	2.09	White Oak	Northwest
14	286	11	2.88	Dead Black Locust	Northwest
15	287	12	3.14	Black Locust	Northwest
16	288	6	1.57	American Beech	Northwest
17	289	31	8.12	Red Oak	Northwest
18	290	6	1.57	Pignut Hickoy	Northwest
19	291	12	3.14	Dead Eastern Hemlock	Northwest
20	292	10	2.62	Norway Maple	Northwest
21	293	10	2.62	White Ash	Northwest
22	294	9	2.36	American Beech	Northwest
23	296	24	6.28	Black Oak	Southeast
24	297	29	7.59	Black Oak	Southeast
25	298	6	1.57	Dead White Ash	Southeast
26	299	8	2.09	Dead Hickory	Southeast
27	300	6	1.57	Red Maple	Southeast
28	301	6	1.57	Dead White Ash	Southeast
29	302	9	2.36	Red Oak	Southeast
30	303	16	4.19	Black Oak	Southeast
31	304	27	7.07	Red Oak	Southeast
32	305	28	7.33	Red Oak	Southeast
33	306	7	1.83	White Ash	Southeast
34	307	15	3.93	Black Oak	Southeast
35	308	12	3.14	White Ash	Southeast
36	309	11	2.88	Red Maple	Southeast
37	310	10	2.62	American Elm	Southeast
38	311	6	1.57	American Elm	Southeast
39	312	17	4.45	Red Oak	Southwest
40	313	5	1.31	Dead Sugar Maple	Southwest
41	314	8	2.09	American Beech	Southwest
42	315	12	3.14	Red Oak	Southwest
43	316	27	7.07	Black Oak	Southwest
44	317	6	1.57	American Elm	Southwest
45	318	7	1.83	Sweet Birch	Southwest
46	319	8	2.09	Dead White Ash	Southwest
47	320	7	1.83	Dead White Ash	Southwest
48	321	10	2.62	Dead American Elm	Southwest
49	322	6	1.57	Sweet Birch	Southwest
50	323	16	4.19	Tulip Poplar	Southwest
51	1000	32	8.38	Black Oak	Northeast
52	1001	12	3.14	Sugar Maple	Northeast

Site: Baptist Church Road Bridge

Tree Count	Tree Number	Diameter (in)	Circumference (ft)	Name	Location in Relation to Centerline of Baptist Church Road Bridge/Baptist Church Road
53	1002	9	2.36	Red Oak	Northeast
54	1003	5	1.31	Flowering Dogwood	Northeast
55	1004	14	3.67	American Elm	Northeast
56	1005	6	1.57	White Ash	Northwest
57	1006	6	1.57	American Elm	Southwest
58	1007	6	1.57	American Elm	Southwest
59	1009	3	0.79	American Beech	Southwest
60	1010	7	1.83	Dead White Ash	Southwest
61	1011	4	1.05	Dead White Ash	Southwest
62	1012	11&10	2.88 & 2.62	Shagbark Hickory	Southwest
63	1013	19	4.97	Sugar Maple	Northwest
64	1014	20	5.24	White Oak	Northwest
65	1015	34	8.90	Black Oak	Northwest
66	1016	8	2.09	Long-Dead Black Birch	Northeast
67	1019	4	1.05	Red Oak	Southwest
68	1020	8	2.09	Eastern Hemlock	Southwest
69	1021	8	2.09	Sugar Maple	Southwest
70	1022	10	2.62	Red Maple	Southwest
71	1023	20	5.24	White Oak	Southwest
72	1024	8	2.09	Eastern Hemlock	Southwest
73	1025	6	1.57	American Elm	Southwest
74	1026	12&13	3.14 & 3.40	Pignut Hickory	Southwest
75	1027	14	3.67	Eastern Hemlock	Southwest
76	1028	14	3.67	Pignut Hickory	Southwest
77	1029	16	4.19	White Oak	Southwest
78	1030	9	2.36	Pignut Hickory	Southwest
79	1031	8	2.09	Sugar Maple	Southwest
80	1032	25	6.54	Double Trunk White Oak	Southwest
81	1033	27	7.07	Double Trunk White Oak	Southwest
82	1034	9	2.36	Dead White Ash	Southeast
83	1035	14	3.67	Pignut Hickory	Southeast
84	1036	10	2.62	Sugar Maple	Southwest
85	1037	4	1.05	Hophornbeam (Ostrya)	Southwest
86	1038	13	3.40	Dead Hemlock	Southwest
87	1039	8	2.09	Sugar Maple	Southeast
88	1040	7	1.83	American Beech	Northwest
89	1041	15	3.93	Sugar Maple	Northwest

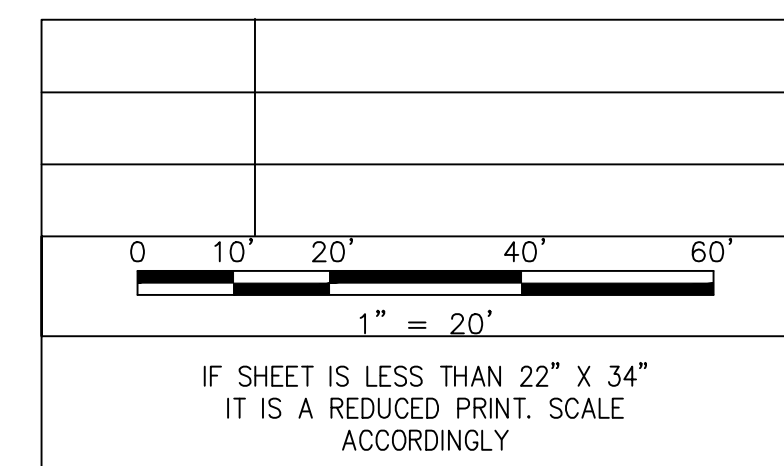


Point	Northing	Easting	Elevation	Description
67	884307.68	672991.40	209.45	BNAIL 67
70	884497.75	673142.12	209.20	BNAIL 70
72	884514.37	673191.88	210.19	BNAIL 72
74	884280.71	672852.77	209.68	BNAIL 74
9060	884432.63	673112.72	208.36	BNAIL 60
9061	884401.87	673075.24	208.52	BNAIL 61
9073	884423.44	673094.68	209.49	BNAIL 73



- NOTES:
1. BASELINES BASED ON PHYSICAL FEATURES AND REPRESENTS THE APPROXIMATE CENTER LINE OF THE ROADWAY (NOT THE RIGHT OF WAY).
  2. ELEVATIONS AND COORDINATES ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) AND NAD 83 NY STATE PLANE COORDINATE SYSTEM, NY EAST ZONE AS DETERMINED BY RTK GPS OBSERVATIONS ON OCTOBER 7TH, 2017.
  3. THE USER OF THIS SURVEY IS CAUTIONED THAT THE UNDERGROUND UTILITY LOCATIONS ARE NOT GUARANTEED NOR IS THERE ANY GUARANTEE THAT ALL EXISTING UTILITIES, WHETHER FUNCTIONAL OR ABANDONED WITHIN THE PROJECT AREA, ARE SHOWN ON THIS SURVEY. EXACT LOCATIONS MUST BE FIELD MARKED AND VERIFIED BY THE RESPECTIVE UTILITY COMPANY.
  4. THE LOCATION OF UNDERGROUND UTILITIES AS SHOWN HEREON ARE BASED ON ABOVE GROUND STRUCTURES, UTILITY RECORD DRAWINGS AND CITY RECORD MAPS. THE ONLY AVAILABLE UTILITY RECORDS WERE PROVIDED BY OPTIMUM. LOCATION OF UNDERGROUND UTILITY/STRUCTURES MAY VARY FROM LOCATIONS SHOWN HEREON. ADDITIONAL BURIED UTILITIES / STRUCTURES MAY BE ENCOUNTERED. NO EXCAVATION WAS MADE DURING THE PROGRESS OF THIS SURVEY TO LOCATE BURIED UTILITIES. BEFORE COMMENCING EXCAVATION, CONTRACTORS SHOULD CALL 1-800-962-7962. IT IS THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.

Station	400+00.000	400+82.918	401+86.800	402+91.157	403+94.249	404+71.478	404+71.478	406+71.790
Northing	884245.338	884284.235	884315.315	884377.342	884464.065	884503.868	884517.625	884547.625
Easting	672814.893	672887.786	672986.909	673068.216	673123.956	673187.561	673187.561	673382.838
Bearing			N 72°35'29" E			N 32°43'48" E		
Distance			103.882'			103.092'		
Radius Length		283.093'		150.000'		93.071'		1314.924'
Radius Northing		884017.701		884458.444		884411.764		885805.133
Radius Easting		672983.187		672942.032		672998.942		672998.523
Delta Angle		16°46'55"		39°51'41"		47°32'37"		08°43'42"
PI Station		400+41.758		402+41.190		404+35.243		405+71.828
PI Northing		884270.163		884331.587		884518.295		884518.295
PI Easting		672848.470		673038.808		673146.993		673286.869
Tangent		41.758'		54.390'		40.994'		100.350'
Arc Length		82.918'		104.357'		77.229'		200.313'
Direction		Right		Left		Right		Left
Chord Length		82.622'		102.265'		75.033'		200.119'
Chord Bearing		N 61°54'54" E		N 52°39'39" E		N 57°57'45" E		N 77°22'12" E



NO.	DATE	REVISIONS/DESCRIPTION	APPR'D.
12/08/20		TREES UPDATED	
12/19/18		WETLANDS UPDATED	
12/18/17		ROCK OUTCROPS ADDED	
12/15/17		BASELINE TABLE ADDED	

DESIGNED BY:	N.A.	DRAWN BY:	BR
CHECKED BY:	MZ		
DESIGN LEAD:	N.A.		
SECTION MANAGER:	N.A.		



PROJECT MANAGER  
JEFFREY A. BUSSE, P.E.  
Portfolio Manager  
Paul Costa, P.E.  
DIRECTOR, IN HOUSE DESIGN  
S. McAndrew, P.E.

\*WARNING--IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW, SECTION, 7209.2, FOR ANY PERSON, UNLESS (S)HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT IN ANY WAY. IF ALTERED, THE ALTERING PERSON SHALL COMPLY WITH THE REQUIREMENTS OF NEW YORK EDUCATION, LAW, SECTION, 7209.2.\*

**NEW YORK CITY**  
**ENVIRONMENTAL PROTECTION**  
BUREAU OF ENGINEERING DESIGN & CONSTRUCTION  
96-05 HORACE HARDING EXPRESSWAY 5th FLOOR  
CORONA, NEW YORK 11368  
www.nyc.gov/dep

**CAPITAL PROJECT WM-30**  
**IN WESTCHESTER COUNTY, NEW YORK**  
**CONTRACT CRO-530B**  
TOPOGRAPHIC MAP  
BAPTIST CHURCH RD. BRIDGE  
TOWN OF YORKTOWN, NY 10598

DATE: 11/28/17  
SCALE: 1"=20'  
SHEET NO: 2 OF 9  
DRAWING NO.