

# NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Remedial Bureau C  
625 Broadway, 12th Floor, Albany, NY 12233-7014  
P: (518) 402-9662 | F: (518) 402-9722  
[www.dec.ny.gov](http://www.dec.ny.gov)

## Transmitted via E-mail Only

September 27, 2022

Commissioner Hugh Greechan, Jr., P.E.  
County of Westchester  
Westchester County Department of Public Works and Transportation  
148 Martine Avenue, 5<sup>th</sup> Floor  
White Plains, New York 10601  
[Hjg7@westchestergov.com](mailto:Hjg7@westchestergov.com)

**RE: April 2022 Work Plan for Clean Water Pipeline Extension – New King Street  
Westchester County Airport, Site No. C360174  
240 Airport Road  
Harrison, NY 10604, Westchester County**

Dear Commissioner Greechan,

The New York State Department of Environmental Conservation's (Department), Division of Environmental Remediation (DER) and the New York State Department of Health's (NYSDOH), Bureau of Environmental Exposure Investigation (BEEI), have reviewed the Clean Water Pipeline Extension Work Plan (CWPEWP), dated April 29, 2022, for the Westchester County Airport (Site No. C360174) submitted by First Environment. As we understand it, First Environment will be providing environmental oversight of the waterline extension from Westchester Joint Water Works (WJWW) just south of the airport, to the New King Street properties north of the airport for drinking water wells impacted with PFOA and PFOS. The CWPEWP can be formalized with the final design plans for the waterline extension.

The CWPEWP is conditionally approved pending acceptance of the below conditions and provision of the requested documents. Please note that all applicable permits must be obtained.

1. Page 5, Soil Handling – Reuse & Disposal: Please provide the estimated duration soil will remain stockpiled. Our current regulations allow up to **12 months or 1 year** storage of excavated material until it can be disposed off-site properly.

.... storage of waste on the site of generation is still under our general exemptions in 360.14(b)(1), but "Storage" is currently defined under 360.2(b)(262) as *"the temporary holding or containment of waste in a manner which does not constitute disposal. However, any waste retained on-site for a period in excess of 12 months constitutes disposal, unless otherwise specified in this Part or Parts 361 through 365 of this Title."*

2. Page 5, Soil Handling - Reuse and Disposal: Please follow the revised procedures and guidance in the **Draft June 2022 Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS)** (link below) for the handling, disposal or reuse of PFAS impacted soil. Soil reuse must be approved by the Department Project Manager prior to reuse.

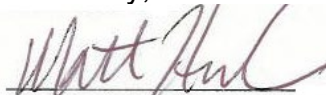
<https://nysemail.sharepoint.com/sites/DECInSite-DER/DER/Documents/Forms/AllItems.aspx?id=%2Fsites%2FDECInSite-DER%2FDER/Documents%2Fpfassampanalydraft%2Epdf&parent=%2Fsites%2FDECInSite-DER%2FDER/Documents>).

3. Please provide a copy of the contractor's Stormwater Pollution Prevention Plan (SWPP) detailing the erosion and sediment controls with the updated work plan.

Please indicate your acceptance of the above comments within 15 days of receipt of this letter, and please revise the CWEPWP accordingly. Upon receipt of the updated workplan addressing the Department's comments, the plan will be considered approved.

If you or your consultant have any questions or require clarification on these responses, please contact me at (518) 402-9605 or by email: [matthew.hubicki@dec.ny.gov](mailto:matthew.hubicki@dec.ny.gov)

Sincerely,



Matthew Hubicki  
Project Manager  
Division of Environmental Remediation

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DECDocs

April 29, 2022

Mr. Matthew Hubicki  
Project Manager, Remedial Bureau C  
Division of Environmental Remediation  
New York State Department of Environmental Conservation (NYSDEC)  
625 Broadway  
Albany, NY 12233-7014

Re: NYSDEC Site No. 360174  
Clean Water Pipeline Extension for New King Street  
240 Airport Road, White Plains, New York

Dear Mr. Hubicki:

On behalf of Westchester County Department of Public Works and Transportation (WCDPWT), First Environment, Inc. (First Environment) prepared the modified workplan described herein in accordance with the provisions of an Order on Consent (CO3-20180308-44) between Westchester County (the County) and the New York State Department of Environmental Conservation (NYSDEC) executed on June 6, 2019.

This workplan describes the handling of soil and groundwater containing per- and polyfluoroalkyl substance (PFAS), soil sampling, and includes a Health and Safety Plan (HASP), Community Air Monitoring Plan (CAMP), and Quality Assurance Project Plan (QAPP), as well as provisions for environmental oversight and environmental activities conducted in conjunction with the construction and installation of a water supply pipeline from Westchester Joint Water Works (WJWW) to the New King Street residence.

Groundwater in the New King Street area is impacted by PFAS identified by New York State Department of Health (NYSDOH) in May and June 2017. The impacts in this area are believed to have originated from Westchester County Airport (the "Airport"). Specifically, perfluorooctane sulfonate (PFOS) and perfluorooctanoic acid (PFOA) have been identified in groundwater downgradient off the Airport property along New King Street exceeding the New York State's drinking water Maximum Contaminant Level (MCL) of 10 part per trillion (ppt). The New King Street monitoring wells have exhibited the average PFOS+PFOA, PFAS concentrations shown in Table 1 and illustrated in Figure 1. The NYSDOH laboratory analytical package is included in Appendix A.

TABLE 1  
New King Street Well  
PFAS Concentrations

Well Address	Average PFOA/PFOS ng/L	Average PFAS ng/L
1-3 New King Street	81.95	169.05
4 New King Street	4.92	6.04
10 New King Street	28.60	58.57
20 New King Street	22.60	41.65

ng/L = nanograms per liter or parts per trillion (ppt)

As a result of PFOS and PFOA being detected in off-site potable wells located along New King Street, the County of Westchester has agreed to install a water supply waterline extension to the Town of New Castle.

The proposed project consists of the installation of approximately 5,200 linear feet of 12-inch water main from the Westchester County Airport (WCA) to New King Street over a 12- to 16-month period. The nearest municipal water supply available is the WCA internal water main which is fed by WJWW. As a result of impacts to groundwater, Westchester County (County) has agreed to provide the New King Street properties with a connection to a clean municipal water supply source. Once the water line installation is completed, the Town of New Castle will form a new water district and be responsible for maintaining the supply line that serves the local residences in New Castle. The project area both on- and off-site of the WCA where the waterline will extend is illustrated on Figure 1.

## Geology/Hydrogeology

First Environment reviewed soil boring and monitoring well logs to evaluate the soil conditions and groundwater elevations where the proposed construction activity is planned (Appendix B). The unconsolidated overburden consists of topsoil, fill, glacial till, and glacial outwash deposits ranging in depth from 5.0 to 45.0 feet below ground surface (bgs). The fill consists primarily of reworked native soils consisting of glacial till and outwash. The glacial deposits consist mainly of yellow-brown micaceous sand and cobbles, although lenses of clay and silt are interbedded and rest atop the weathered bedrock. The Unified Soil Classification System (USCS) classification of the soil in this area was generally sand with varying amounts of silt (SM) to Poorly Graded Sand with low levels of silt (SP). Occasionally, a discontinuous Organic Silt (OL) was encountered. More frequently encountered was inorganic silt (ML) with varying fine sand lenses and rarely, inorganic clay (CL). It is believed that the poorly graded nature of sand with fines coupled with the silt lenses reduces the hydraulic conductivity (K) value of the soil. The K values of soil derived from slug testing at the Airport are generally low range from 0.09 ft/day to a high of 9.33 ft/day in along the perimeter at FMW-13 to FMW-16. The K average value is 2.94 ft/day. It should be noted that these K values were obtained in the immediate vicinity of the construction alignment and were performed by First Environment in August 2000.

## **Scope-of-Work**

The design engineering firms OLA Consulting Engineers (OLA), as well as D&B Engineers and Architects (D&B), have provided a detailed description project in the Clean Water Pipeline Extension for New King Street Engineering Report. The description includes project background, site information, ownership, construction estimate, required permitting, comparison analysis, selected alternatives, engineering report certification, and smart growth for the installation of the water main. The engineering report, along with the engineering drawings prepared by OLA and D&B, is provided in Appendix C. The engineering report, design drawing, bid package, as well as the environmental workplan for the construction and installation of the water supply pipeline is expected for submittal to bidders during the summer of 2022.

The modified workplan describes the environmental activities that are expected to occur during the installation and construction of the water supply waterline.

### ***Health & Safety Plan***

Prior to initiating any on-site intrusive activities, First Environment will complete the required public utility mark-out and notifications for the project area, and if necessary private utility mark out. In addition, First Environment will prepare a site-specific HASP in accordance with NYSDEC guidance (DER-10) incorporating the environmental tasks to be completed by First Environment as outlined in this workplan. The HASP is a requirement of the federal Occupational Safety and Health Administration (OSHA) and is not subject to the approval of NYSDEC. A copy of First Environment's Health & Safety Plan is provided in Appendix D.

### ***Air Monitoring***

A CAMP has been developed to measure, evaluate, and control, as necessary, potential fugitive particulates and, if observed, volatile organic compounds (VOC) generated during ground intrusive activities. Although, it should be noted that based on Site Characterization performed by First Environment in 2020-2021, it is not expected that VOCs in soil or elevated levels in groundwater will be encountered during construction. The CAMP was developed using the NYSDOH Generic Community Air Monitoring Plan in combination with site-specific information and proposed activities.

Depending on the type of activity, levels of airborne particulates and/or VOCs will be monitored and recorded in real-time at both the upwind and downwind perimeters of the immediate work area. The purpose of the CAMP is to protect the downwind community from a potential release of airborne contaminants to the air generated during the construction activities conducted on the Airport property.

If the recorded levels approach the pre-established action level or if airborne particulates are visually observed migrating off-site or towards sensitive receptors, suppression measures will be implemented immediately. Suppression measures may include misting the particulate source with water, use of particulate suppression

materials, wetting the work area prior to initiating the activities, or stopping work activities until recorded levels fall below the action level.

Although the measures described above will be undertaken, it is First Environment's belief, based on previous investigations, that airborne contaminants at elevated levels are not anticipated resulting from the construction / excavation activities. However, as a best practice to safeguard and protect workers and the community, air monitoring will be performed during all intrusive activities and reported in monthly reports to the NYSDEC. A copy of the CAMP is provided in Appendix E.

### ***Construction Dewatering***

First Environment also evaluated surface topography, soil type, groundwater elevation, surface water levels, invert elevation of the waterline and PFAS soil and groundwater concentrations along the proposed water line installation pathway. It was necessary to review this information relative to the proposed depth of the waterline excavation to evaluate if construction dewatering will be necessary and, if so, will the removed water exceed the 10 ppt MCL for PFOS or PFOA concentration. The depth-of-groundwater below ground surface varies along the alignment from 0.5 feet to 20.0 feet below ground surface (bgs). In the proposed construction area, the water table varies across the length of the alignment. In the vicinity of the proposed valve box at the intersection of Airport Road and New King Street, the groundwater is shallow in this area and has been measured six inches below the surface. These areas described from B23+00 to B24+50 and C1+00 to C2+00 are areas where groundwater often has daylighted to the ground surface. These locations are identified on Figure 1 along with the proposed pipeline and shallow groundwater elevation.

Based on the assessment of water levels, surface topography and the invert elevation of the waterline, First Environment has highlighted the areas in yellow on Figures 2 to 5 where it is expected dewatering may be necessary to lower the water table to below the proposed excavation depth to install the proposed waterline. First Environment believes dewatering in those highlighted areas can be accomplished using well points or sumps to lower the water table within the excavation area to install the waterline. First Environment estimates the rate of dewatering may range from 10 to 50 gallons per minute (GPM) along a 100-foot section of waterline installation. At the northern boundary as shown in Figure 1 where the proposed water line installation will occur, PFOS and PFOA concentrations were detected at the following concentrations within the monitoring wells: MW-13R (PFOS + PFOA 1,007 ppt), MW-14 (PFOS+PFOA 114 ppt), MW-15 (PFOS+PFOA 37 ppt), and MW-16 (PFOS+PFOA 307 ppt). A summary of the PFOS and PFOA concentrations was provided on Table 4 of the April 2021 WSP Semi-Annual groundwater monitoring report which has been provided in Appendix F.

The extracted water will be collected and disposed of at an approved facility capable of accepting PFAS impacted water, or the contractor will select a small-scale treatment system capable of treating PFAS impacted water for discharge to the sanitary sewer.

If the latter option is implemented, the Westchester County Department of Environmental Facilities (DEF) will require a remediation permit and potentially other permit requirements be met before treated groundwater can be transferred into the storm sewer system connected to Blind Brook. The DEF requires PFOS and PFOA impacted groundwater be treated before it can be discharged to the storm or sanitary sewer.

## **Soil Handling – Reuse & Disposal**

A total of approximately 3,000 to 3,500 cubic yards of soil will be excavated and stockpiled for waste characterization for either reuse on-site or transportation and disposal to Class D Landfill. The length of waterline where soil will be excavated and stockpiled for waste characterization is highlighted in red on Figures 2 to 6. Soil removed will be stockpiled on and covered with 6-mil plastic sheeting at the Airport location designated in Figure 1. The soil, per NYSDEC Guidelines for Sampling and Analysis under NYSDEC's Part 375 Remedial Program published in January 2020 and June 2021, will be evaluated for PFAS leachability. The soil is being considered for reuse by the Airport and therefore will be laboratory analyzed using the Synthetic Precipitation Leaching Procedure (SPLP) to assess the leachability of PFOS and PFOA. The NYSDEC June 2021 guidance states if PFOS and PFOA SPLP results are identified above 10 ppt, the soil has the potential to leach PFOS and PFOA to groundwater above the Drinking Water MCL, such soil will be rejected for reuse. It is implied that if SPLP results for PFOS and PFOA are identified in soil below the PFOS and PFOA 10 ppt MCL, it is generally acceptable to reuse the soil without the likelihood of leachability to groundwater above the 10 ppt drinking water MCL.

If such soil exceeds the PFOA or PFOS leachability of 10 ppt, the soil will be further characterized and transported to a pre-approved facility capable of accepting the waste material. Sampling will also be conducted consistent with procedures described in First Environment's previously submitted QAPP.

## **Community Engagement**

First Environment will continue to support Westchester County with its ongoing community engagement program to assist the County with notifying the public of the environmental actions being taken at the Airport. As requested, First Environment will continue to support County officials and representatives; provide updates, as necessary, to Westchester County Board of Legislators, WCPWT, the Airport, the public, NYSDEC, and local environmental citizens groups regarding environmental activities conducted in response to the waterline supply construction.

## **Schedule**

The anticipated schedule is described below. First Environment will work with OLA Engineers and WCPWT to provide environmental support during the waterline construction activities. First Environment will provide monthly updates informing the NYSDEC and NYSDOH to the progress and any environmental findings

associated with the installation of the waterline. Although, an estimated schedule for the project is shown below, factors outside the control the County for approvals must

Upon NYSDEC approval, First Environment estimates completion of the construction, as described herein, will take 12 to 16 months to complete.

If you have any questions, please do not hesitate to call.

Regards,

FIRST ENVIRONMENT, INC.



Scott R. Green, P.G.  
Senior Associate/Director, Insurance  
Insurance Consulting Group



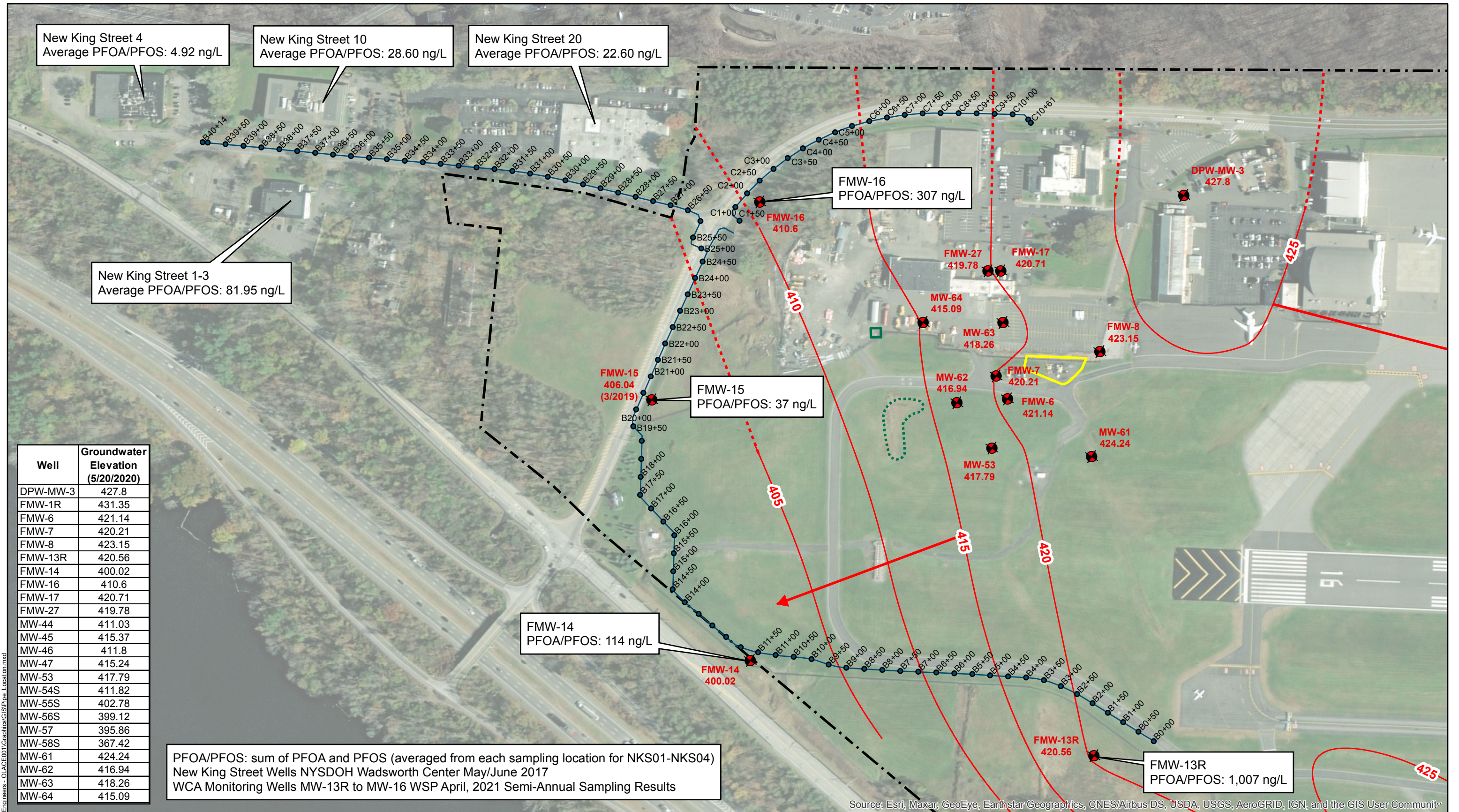
David Luer  
Project Manager/Field Team Leader

Att.

- c: B. Tod Delaney, Ph.D., P.E. - First Environment, Inc.  
Arthur Clarke, J.D. - First Environment, Inc.  
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Amy Meyer, Ameyer@westchestergov.com  
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G. Heitzman  
S. Crisafulli  
M. Murphy  
J. ~~Bayer~~ ~~Boyer~~  
K. Kulow - NYSDOH



## FIGURES



New King Street 4  
Average PFOA/PFOS: 4.92 ng/L

New King Street 10  
Average PFOA/PFOS: 28.60 ng/L

New King Street 20  
Average PFOA/PFOS: 22.60 ng/L

New King Street 1-3  
Average PFOA/PFOS: 81.95 ng/L

FMW-16  
PFOA/PFOS: 307 ng/L

FMW-15  
PFOA/PFOS: 37 ng/L

FMW-14  
PFOA/PFOS: 114 ng/L

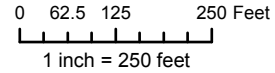
FMW-13R  
PFOA/PFOS: 1,007 ng/L

Well	Groundwater Elevation (5/20/2020)
DPW-MW-3	427.8
FMW-1R	431.35
FMW-6	421.14
FMW-7	420.21
FMW-8	423.15
FMW-13R	420.56
FMW-14	400.02
FMW-16	410.6
FMW-17	420.71
FMW-27	419.78
MW-44	411.03
MW-45	415.37
MW-46	411.8
MW-47	415.24
MW-53	417.79
MW-54S	411.82
MW-55S	402.78
MW-56S	399.12
MW-57	395.86
MW-58S	367.42
MW-61	424.24
MW-62	416.94
MW-63	418.26
MW-64	415.09

PFOA/PFOS: sum of PFOA and PFOS (averaged from each sampling location for NKS01-NKS04)  
New King Street Wells NYSDOH Wadsworth Center May/June 2017  
WCA Monitoring Wells MW-13R to MW-16 WSP April, 2021 Semi-Annual Sampling Results

Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

- Legend**
- Unconsolidated Monitoring Well
  - Unconsolidated Groundwater Elevation Contour (feet) as of 5/20/2020
  - Inferred Unconsolidated Groundwater Elevation Contour (feet)
  - 411.82 Unconsolidated Groundwater Elevation (feet) as of 5/20/2020
  - Unconsolidated Groundwater Flow Direction
  - Water Line
  - Station
  - Property Boundary
  - Former AFFF Burn Pit
  - Subsurface Catch Basin
  - Open Catch Area



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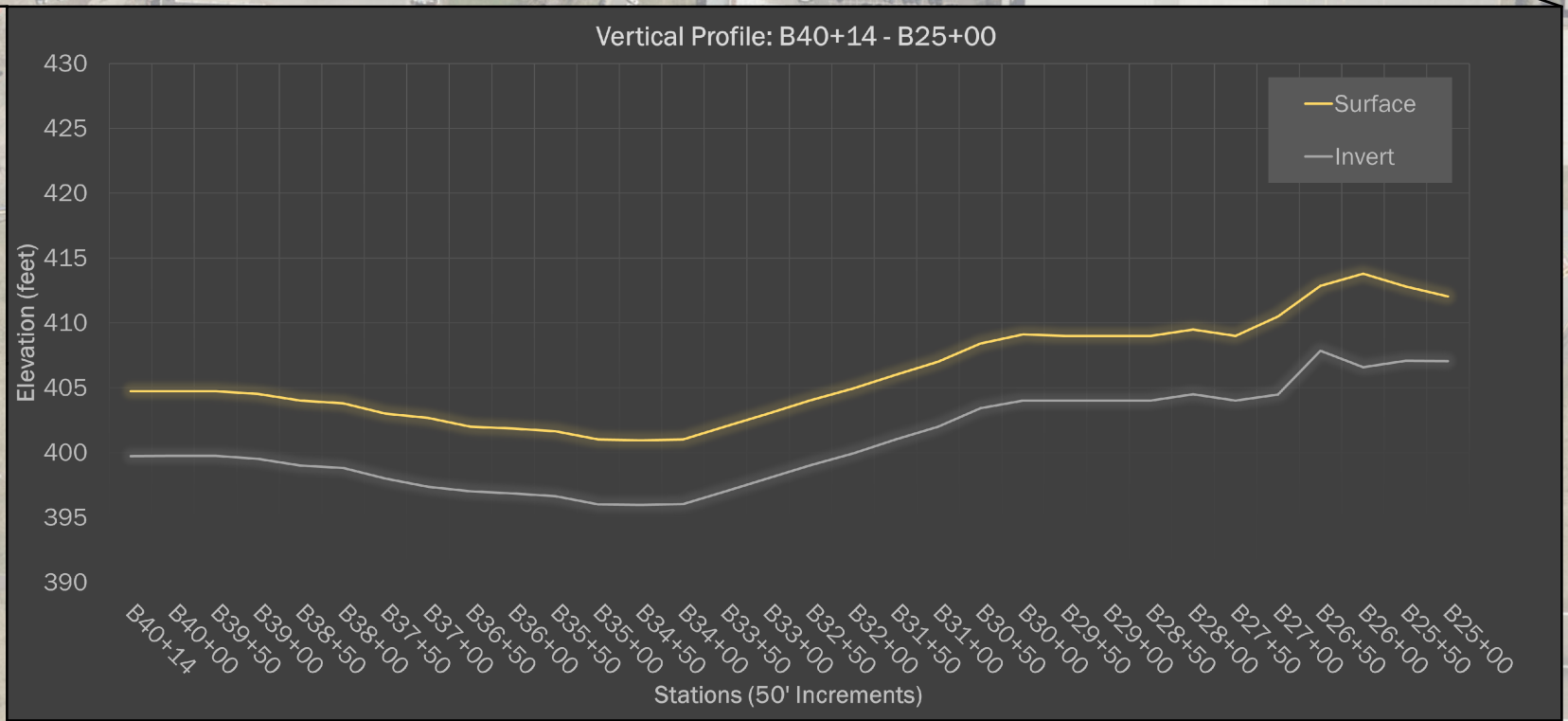
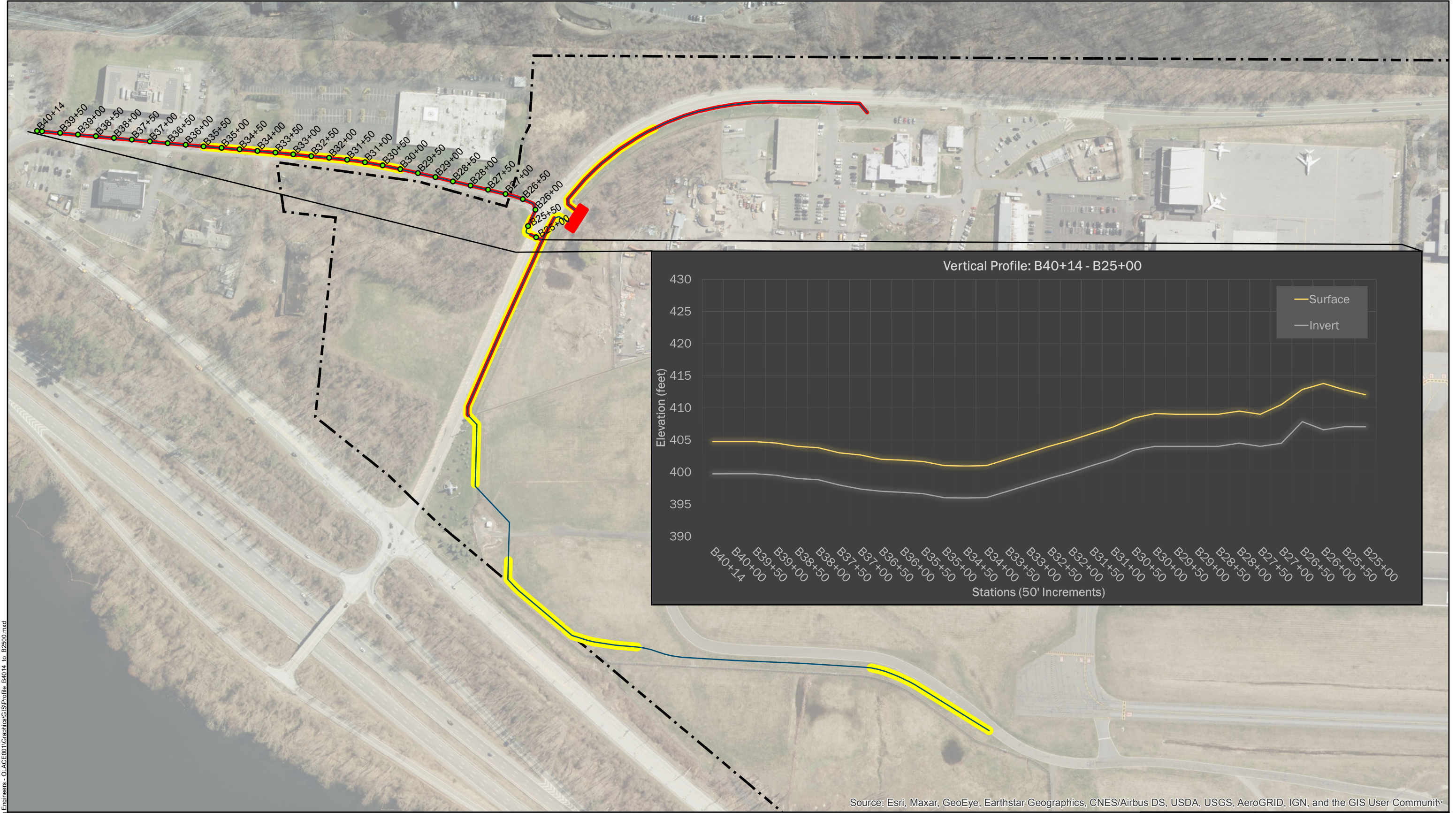
**FIRST ENVIRONMENT**

NYSDEC SITE NO. 360174  
WESTCHESTER COUNTY AIRPORT  
White Plains, Westchester County, New York  
FIGURE 1  
WATER LINE WITH  
GROUNDWATER ELEVATION

Revised	Drawn	Checked	Approved	Date
	LS	DL	SG	1/19/2022

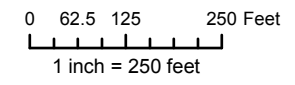
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Butler, NJ 07405

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Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

- Legend**
- Stations B40+14 to B25+00
  - Water Line
  - Excavation Requiring Removal
  - Area Requiring Dewatering & Treatment of Water
  - - - Property Boundary

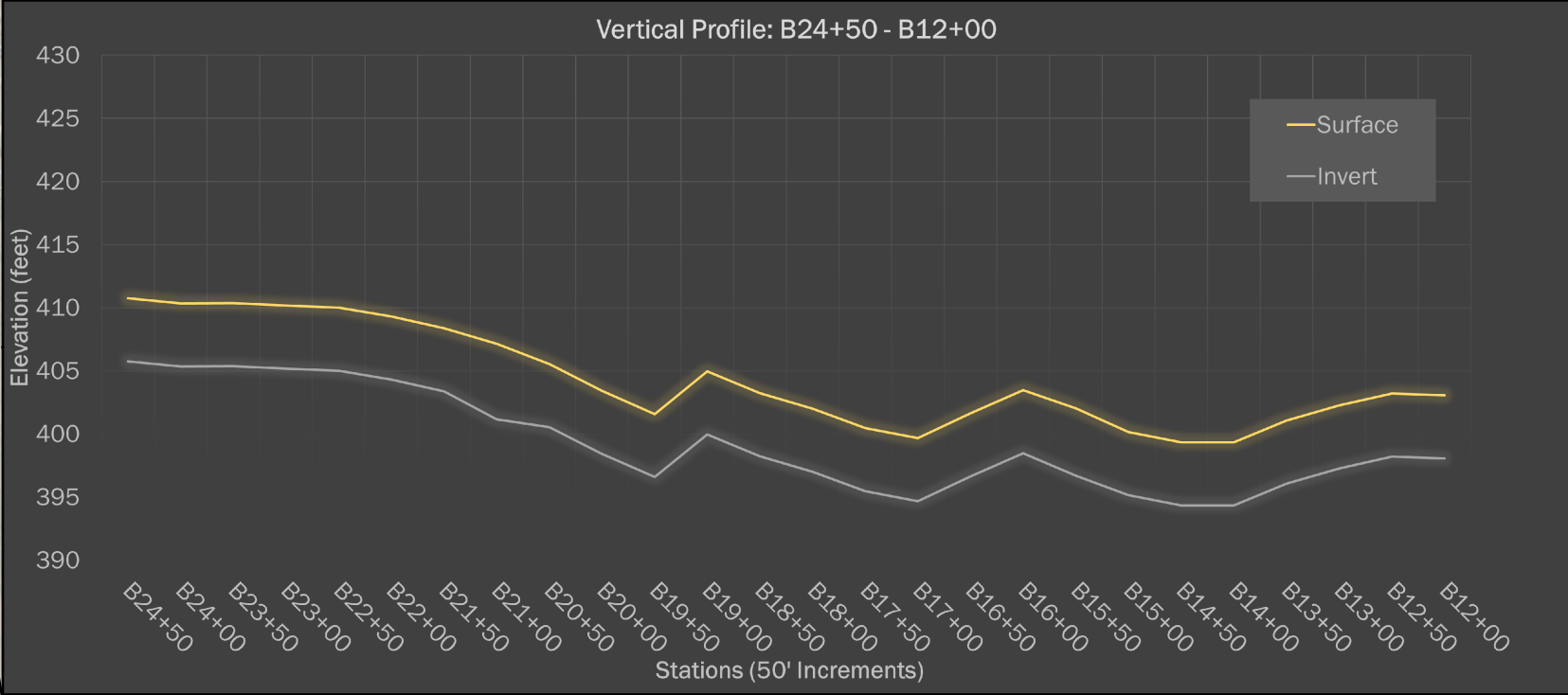
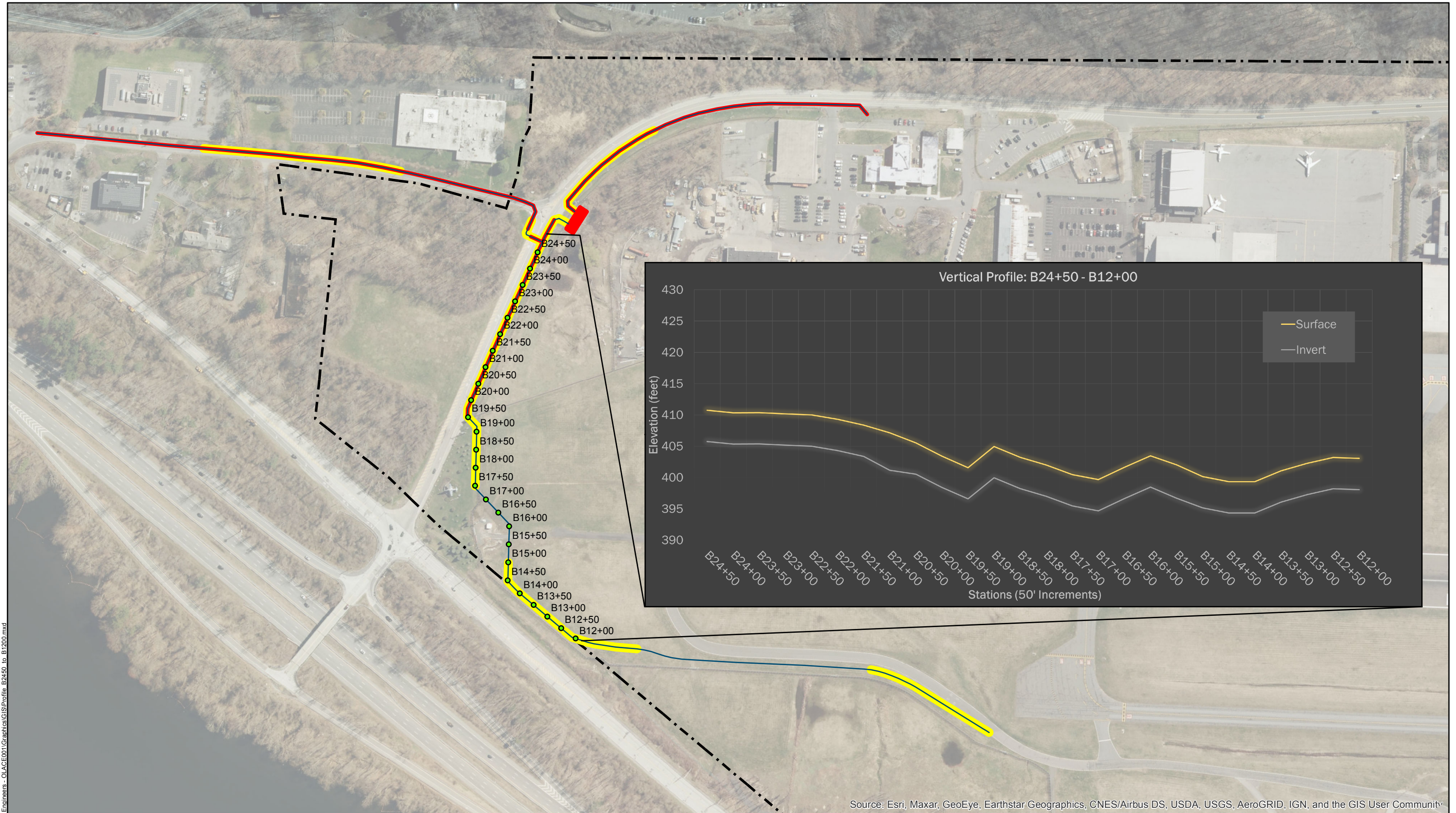


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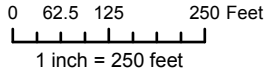
<b>FIRST ENVIRONMENT</b>	NYSDEC SITE NO. 360174 WESTCHESTER COUNTY AIRPORT White Plains, Westchester County, New York			
	FIGURE 2 VERTICAL PROFILE FOR STATIONS B40+14 TO B25+00			
10 Park Place, Bldg 1A, Suite 504 Butler, NJ 07405	Revised	Drawn	Checked	Approved
	LS	DL	SG	Date
				1/13/2022

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Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

- Legend**
- Stations B24+50 to B12+00
  - Water Line
  - Excavation Requiring Removal
  - Area Requiring Dewatering & Treatment of Water
  - Property Boundary

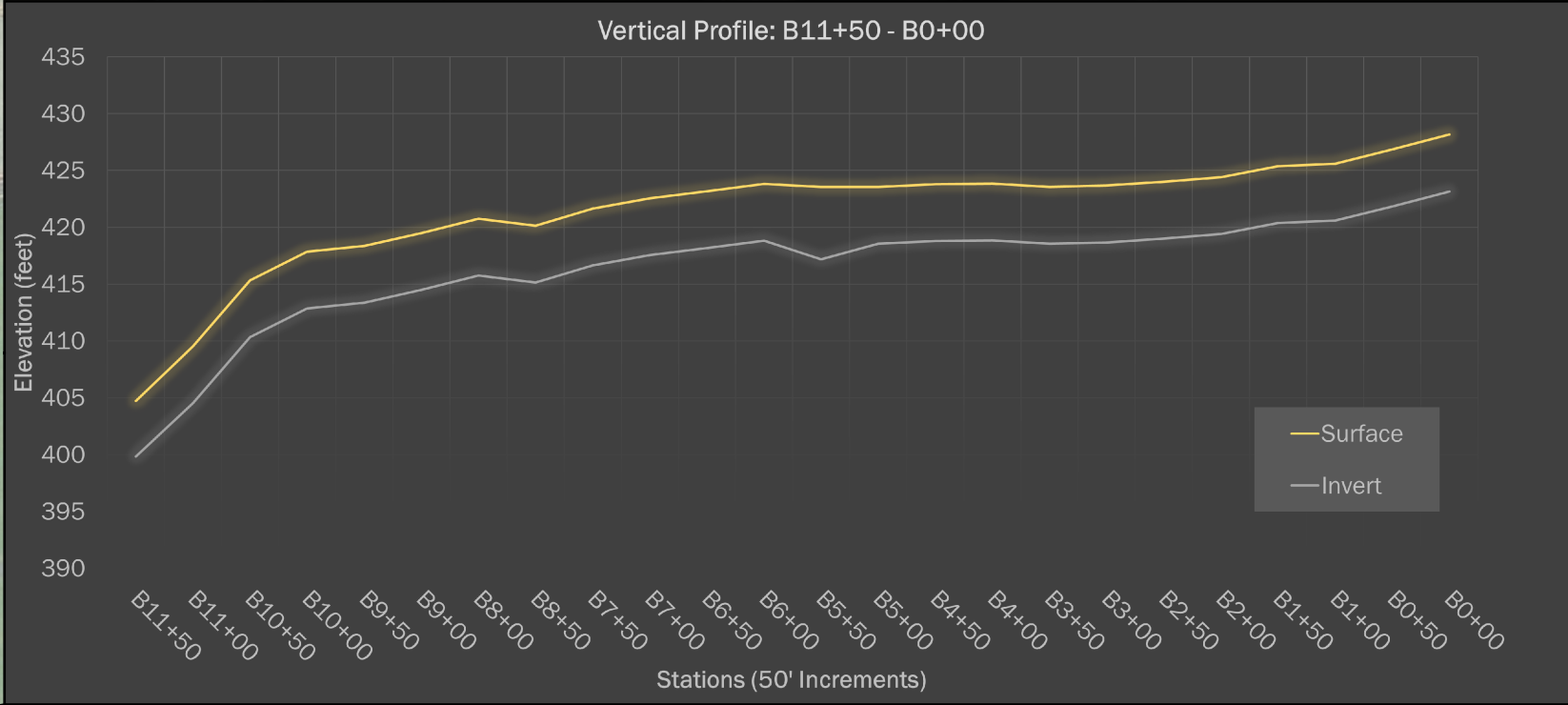
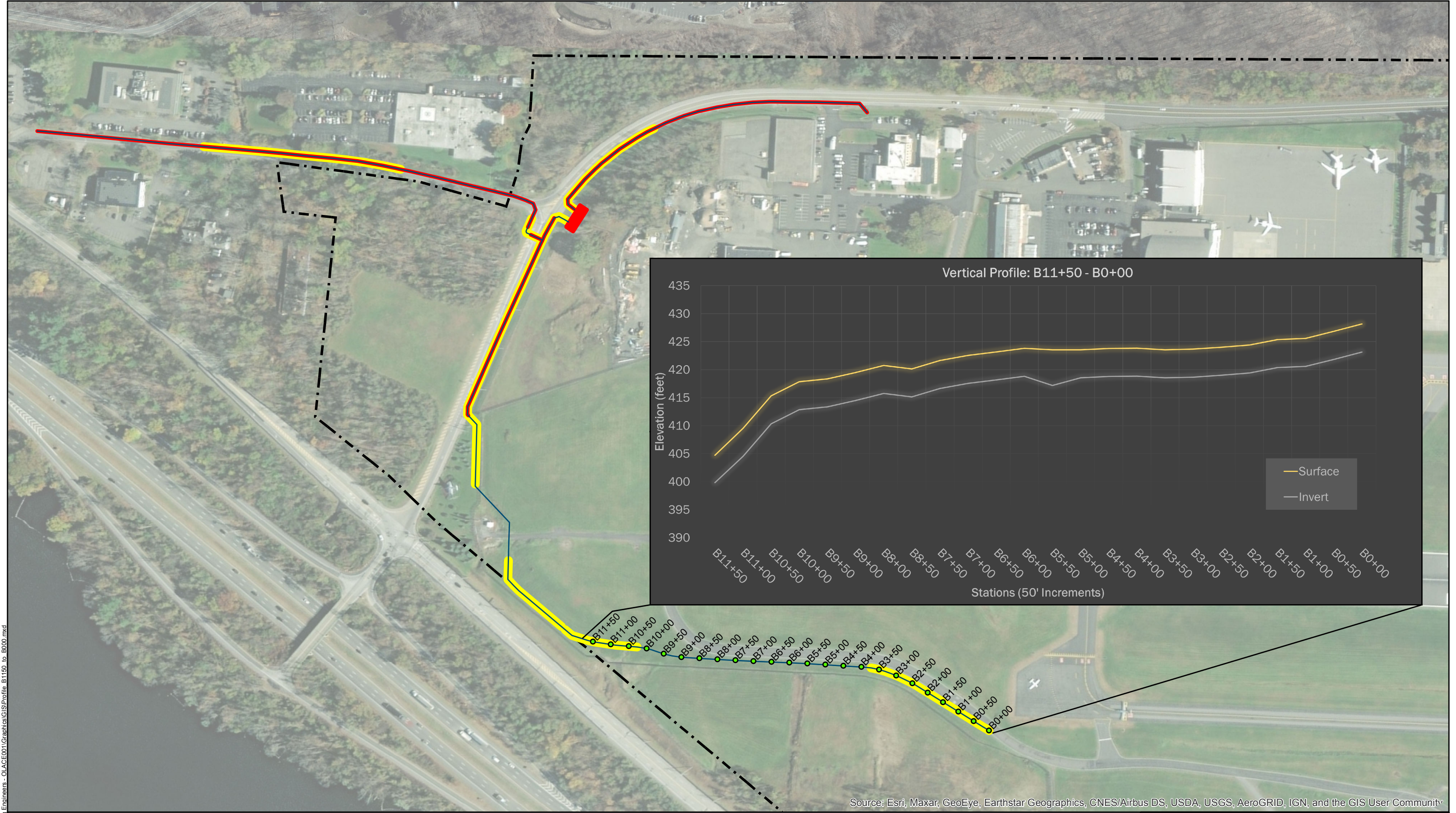


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<b>FIRST ENVIRONMENT</b>	NYSDEC SITE NO. 360174 WESTCHESTER COUNTY AIRPORT White Plains, Westchester County, New York				
	FIGURE 3 VERTICAL PROFILE FOR STATIONS B24+50 TO B12+00				
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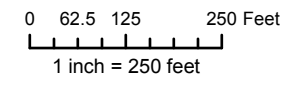
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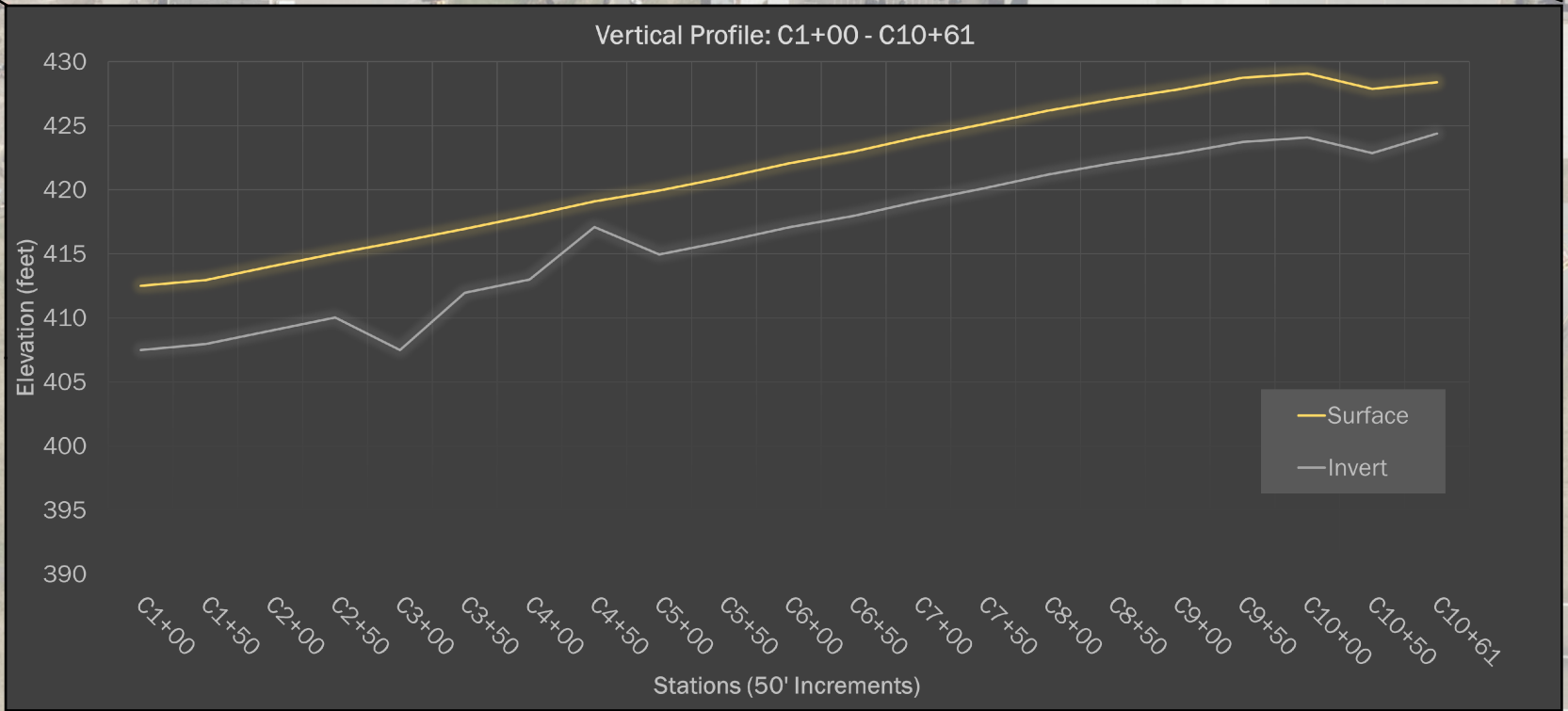
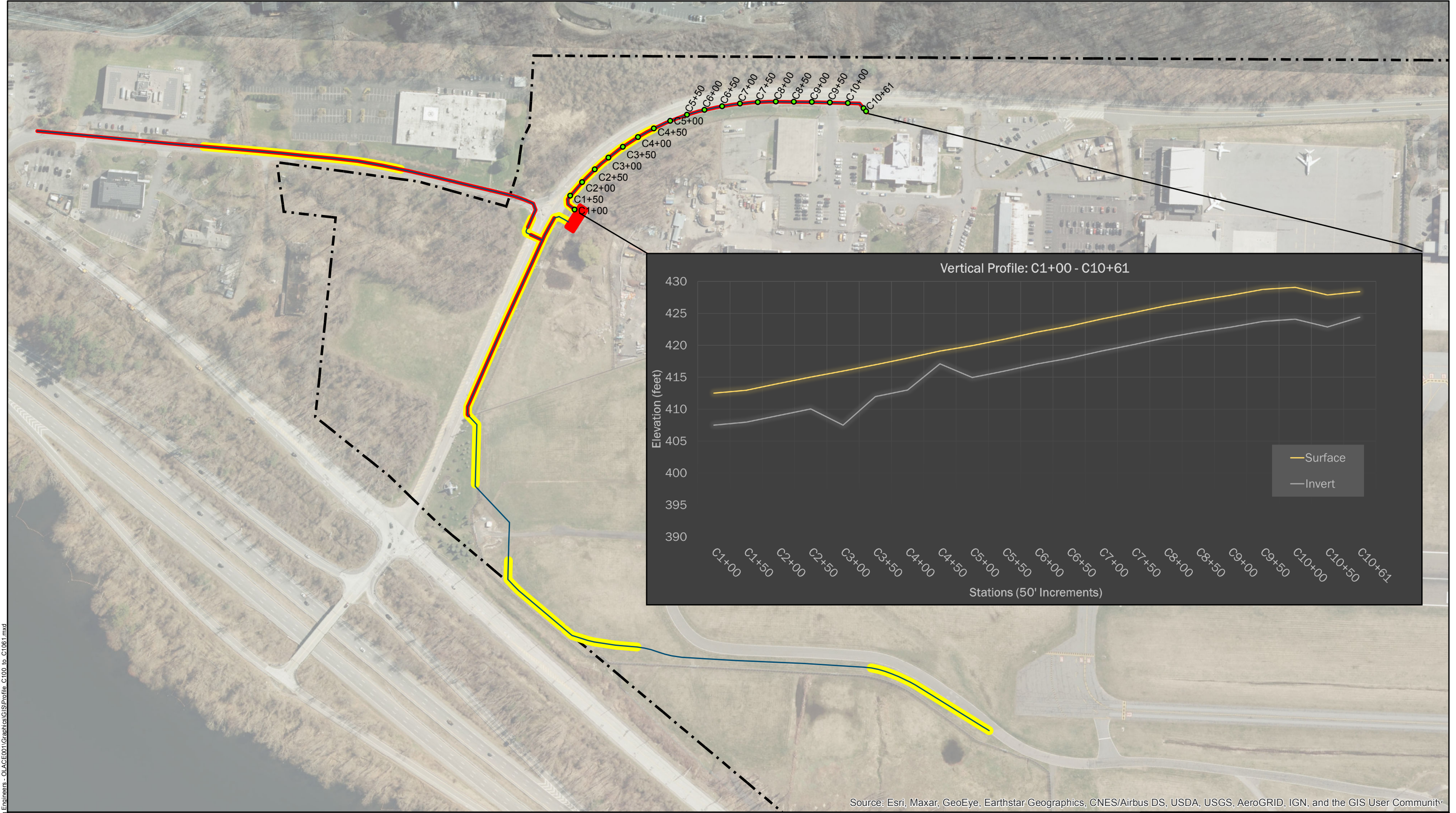
Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

- Legend**
- Stations B0+00 to B11+50
  - Water Line
  - Excavation Requiring Removal
  - Area Requiring Dewatering & Treatment of Water
  - - - Property Boundary



**DRAFT**  
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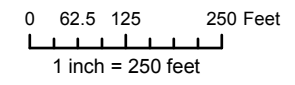
	NYSDEC SITE NO. 360174 WESTCHESTER COUNTY AIRPORT White Plains, Westchester County, New York <b>FIGURE 4</b> VERTICAL PROFILE FOR STATIONS B11+50 TO B0+00			
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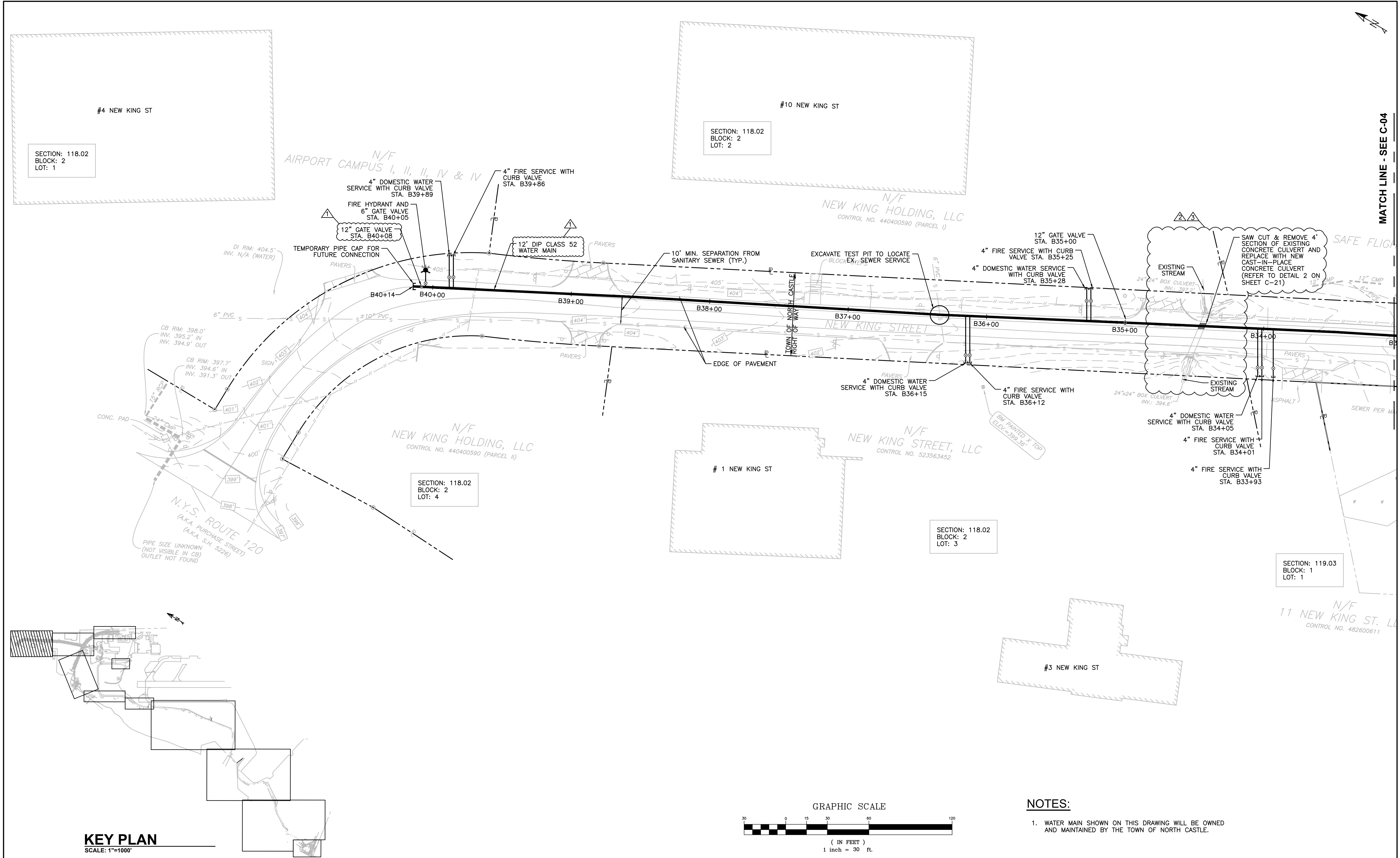
Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

- Legend**
- Stations C1+00 to C10+61
  - Water Line
  - █ Excavation Requiring Removal
  - █ Area Requiring Dewatering & Treatment of Water
  - Property Boundary



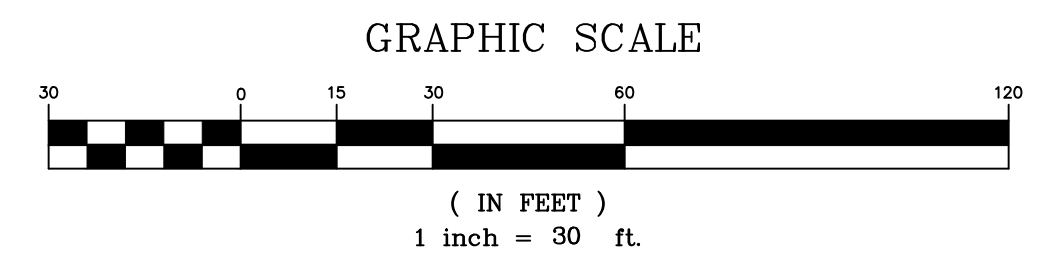
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**PRIVILEGED & CONFIDENTIAL**

<b>FIRST ENVIRONMENT</b>	NYSDEC SITE NO. 360174 WESTCHESTER COUNTY AIRPORT White Plains, Westchester County, New York			
	FIGURE 1 VERTICAL PROFILE FOR STATIONS C1+00 TO C10+61			
10 Park Place, Bldg 1A, Suite 504 Butler, NJ 07405	Revised	Drawn	Checked	Approved
	LS	DL	SG	Date
				1/13/2022



MATCH LINE - SEE C-04

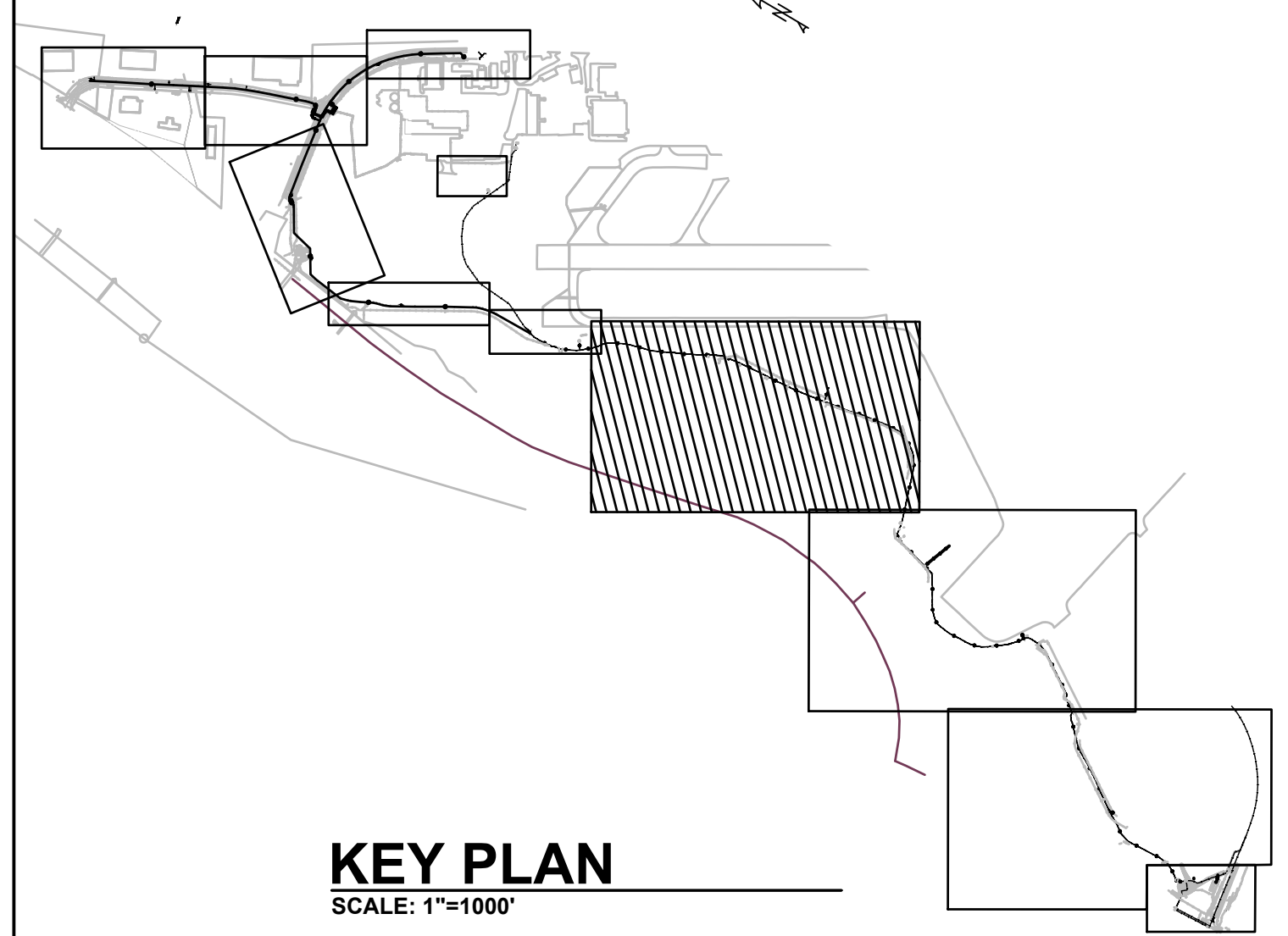
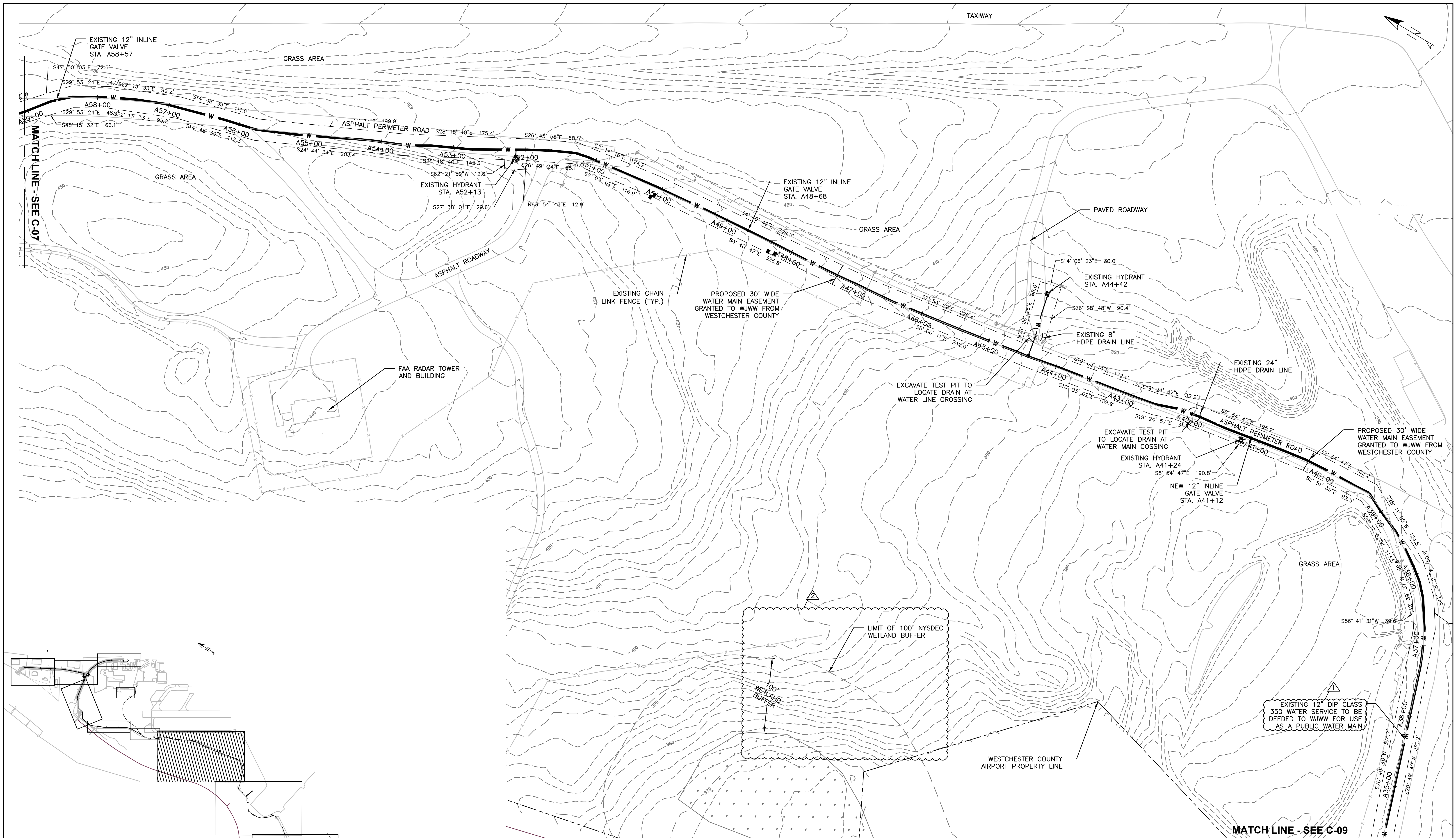
**KEY PLAN**  
SCALE: 1"=1000'



**NOTES:**

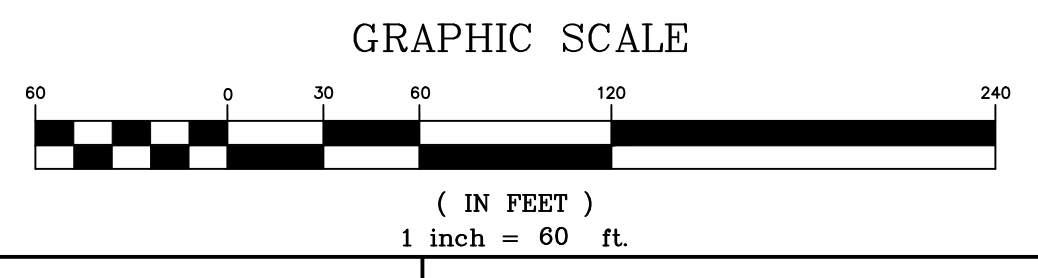
1. WATER MAIN SHOWN ON THIS DRAWING WILL BE OWNED AND MAINTAINED BY THE TOWN OF NORTH CASTLE.

 WHITE PLAINS, NEW YORK 10604 (914) 467-5300		UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW.  IN CHARGE OF <b>WDM</b> CHECKED BY <b>ALG</b> MADE BY <b>JG</b>						RECORD DRAWING CERTIFICATION		<b>WESTCHESTER COUNTY, NEW YORK</b> DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING  DOMESTIC WATER LINE IMPROVEMENTS, WESTCHESTER COUNTY AIRPORT TOWNS OF HARRISON AND NORTH CASTLE AND VILLAGE OF RYE BROOK, NEW YORK CIVIL ALIGNMENT PLAN NO. 1	CONTRACT NUMBER 19-925	SHEET NUMBER C-03
			3	04/22/22	JG	ALG	REVISED PER NYSDEC COMMENTS	CONTRACTOR			PROJECT COORDINATOR	
				2	11/22/21	JG	ALG	REVISED PER ACOE COMMENTS	NAME _____	NAME _____	DPW FILE NO. _____	REV. NO. _____
				1	10/15/21	JG	ALG	REVISED PER WCDOH COMMENTS	SIGNATURE _____	SIGNATURE _____		
		REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION		TITLE _____	DATE _____			

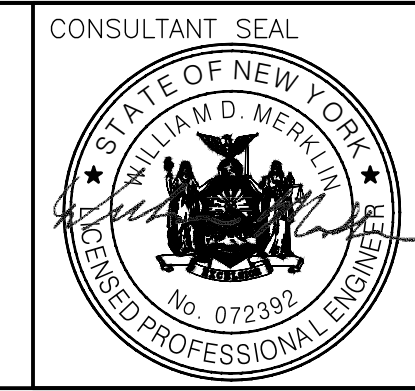


**NOTES:**

1. WATER MAIN SHOWN ON THIS DRAWING WILL BE OWNED AND MAINTAINED BY WESTCHESTER JOINT WATER WORKS.
2. EXISTING WATER SERVICE PIPE SIZE AND MATERIAL BASED OFF OF RECORD DRAWINGS BY DOLPH ROTFELD ENGINEERING, P.C. DATED JULY 1, 1996.



**D&B ENGINEERS AND ARCHITECTS**  
 WHITE PLAINS, NEW YORK 10604  
 (914) 467-5300



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IN CHARGE OF **WDM**  
 CHECKED BY **ALG**  
 MADE BY **JG**

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
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1	10/29/21	JG	ALG	REVISED PER WCDQH COMMENTS

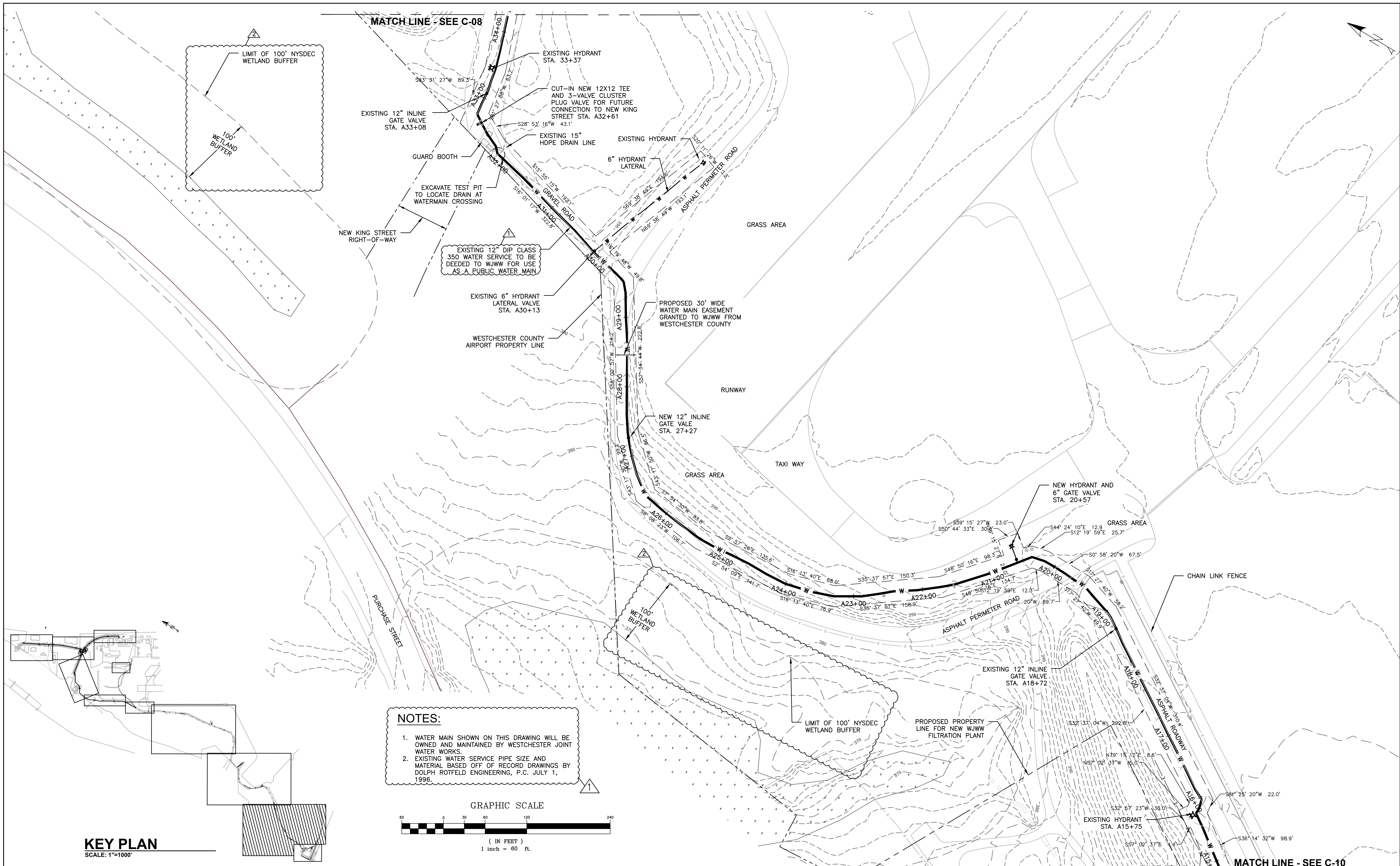
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CONTRACTOR		PROJECT COORDINATOR	
NAME _____	NAME _____	SIGNATURE _____	SIGNATURE _____
TITLE _____	TITLE _____	DATE _____	DATE _____

**WESTCHESTER COUNTY, NEW YORK**  
**DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION**  
 DIVISION OF ENGINEERING

DOMESTIC WATER LINE IMPROVEMENTS, WESTCHESTER COUNTY AIRPORT  
 TOWNS OF HARRISON AND NORTH CASTLE AND VILLAGE OF RYE BROOK, NEW YORK  
 CIVIL  
 ALIGNMENT PLAN NO. 6

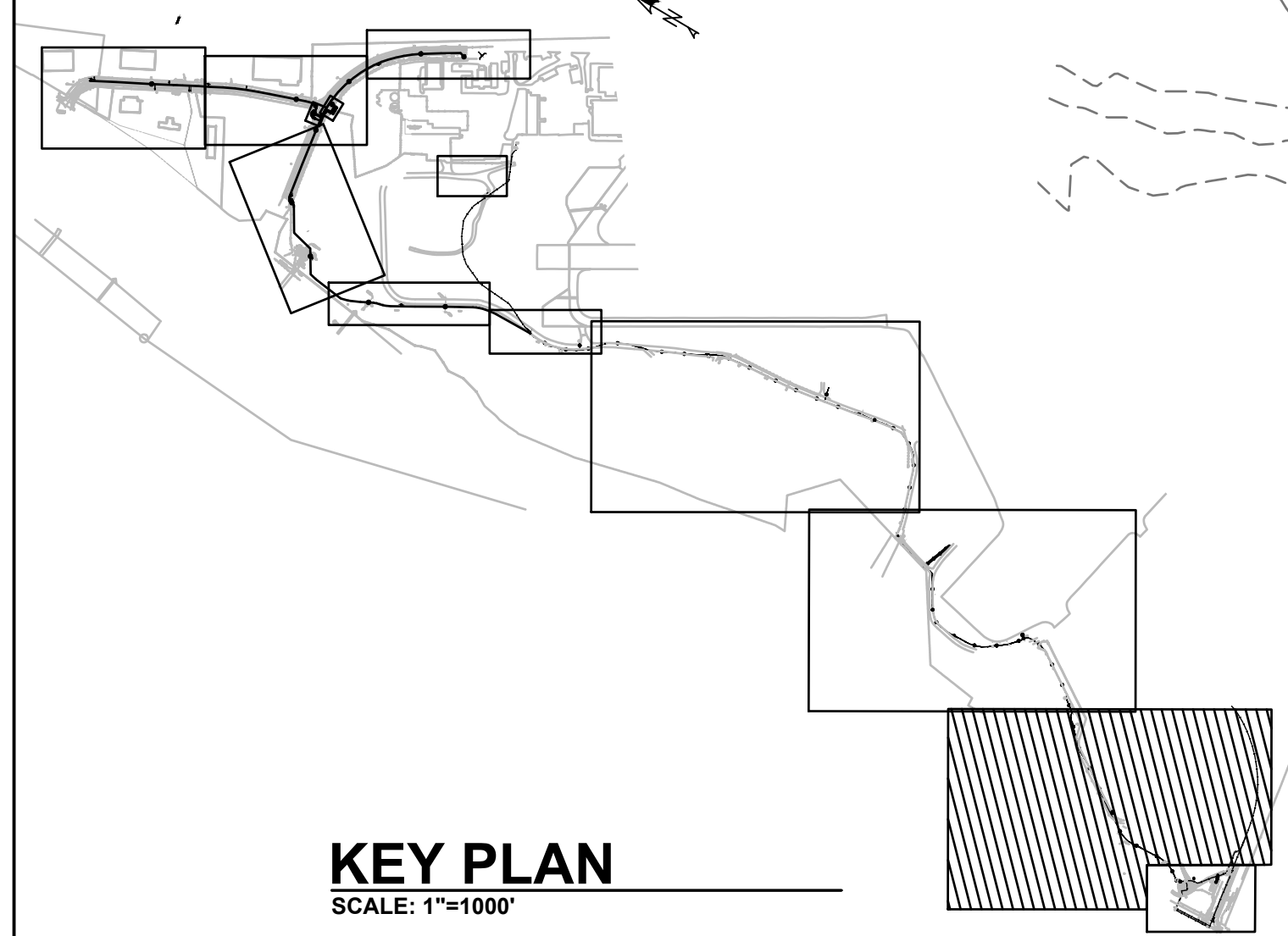
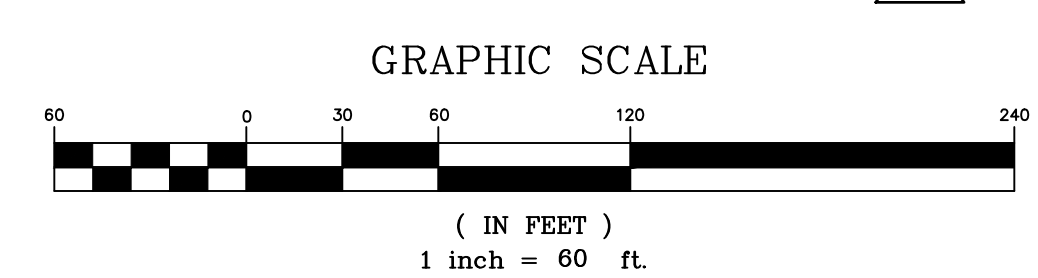
CONTRACT NUMBER 19-925	SHEET NUMBER C-08
SHEET NO. ## OF ##	SCALE: AS SHOWN
DATE: 05-14-2021	REV. NO.:
DPW FILE NO.:	



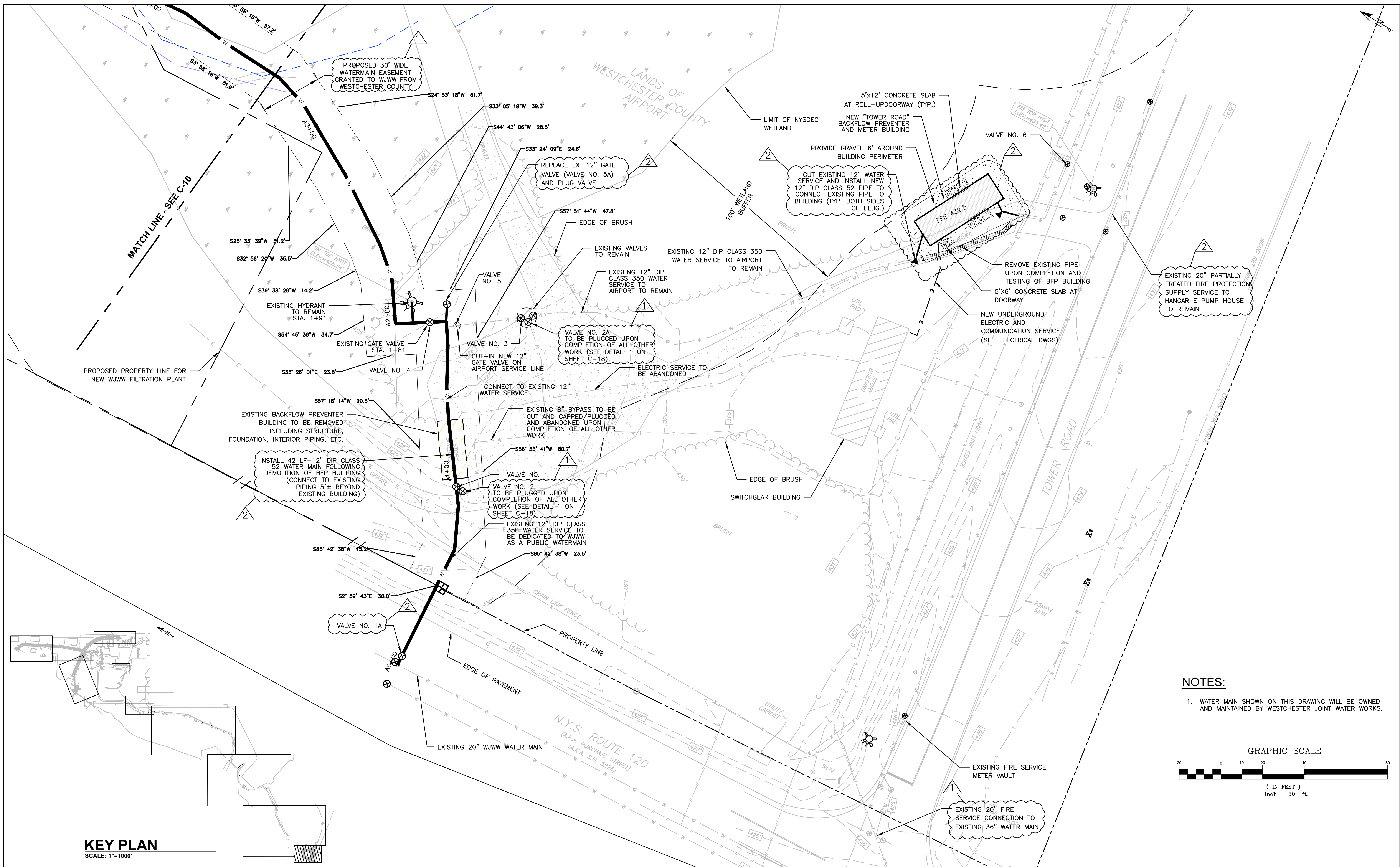


**NOTES:**

1. WATER MAIN SHOWN ON THIS DRAWING WILL BE OWNED AND MAINTAINED BY WESTCHESTER JOINT WATER WORKS.
2. EXISTING WATER SERVICE PIPE SIZE AND MATERIAL BASED OFF OF RECORD DRAWINGS BY DOLPH ROTFELD ENGINEERING, P.C. JULY 1, 1996.



<p>D&amp;B ENGINEERS AND ARCHITECTS WHITE PLAINS, NEW YORK 10604 (914) 467-5300</p>		UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW.	RECORD DRAWING CERTIFICATION				<b>WESTCHESTER COUNTY, NEW YORK</b> <b>DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION</b> DIVISION OF ENGINEERING DOMESTIC WATER LINE IMPROVEMENTS, WESTCHESTER COUNTY AIRPORT TOWNS OF HARRISON AND NORTH CASTLE AND VILLAGE OF RYE BROOK, NEW YORK CIVIL ALIGNMENT PLAN NO. 7	CONTRACT NUMBER 19-925	SHEET NUMBER C-09
		IN CHARGE OF <b>WDM</b> CHECKED BY <b>ALG</b> MADE BY <b>JG</b>	<input type="checkbox"/> AS BUILT - CHANGES AS NOTED <input type="checkbox"/> AS BUILT - NO CHANGES	CONTRACTOR		PROJECT COORDINATOR		SHEET NO. ## OF ##	SCALE: AS SHOWN DATE: 05-14-2021
			NAME _____ SIGNATURE _____ TITLE _____	NAME _____ SIGNATURE _____ TITLE _____	DATE _____ DATE _____				
		REVISION NUMBER    DATE    MADE BY    APP'D BY    REVISION							



**NOTES:**

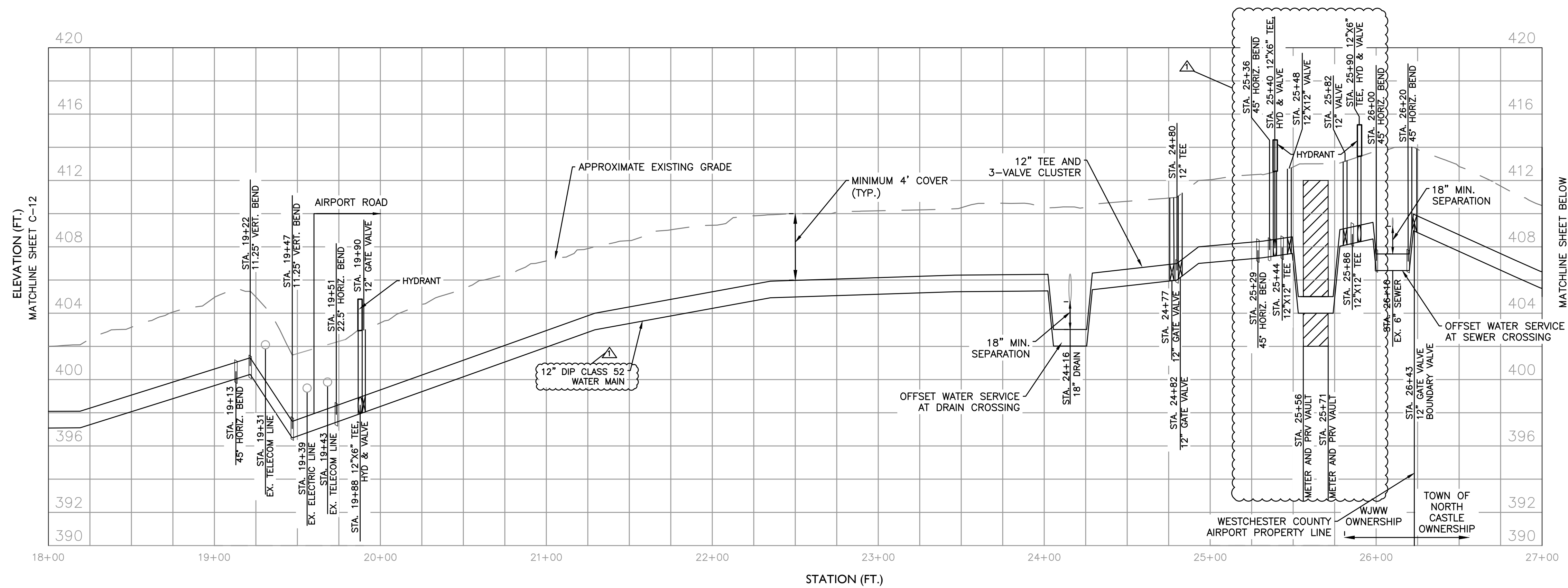
1. WATER MAIN SHOWN ON THIS DRAWING WILL BE OWNED AND MAINTAINED BY WESTCHESTER JOINT WATER WORKS.

**GRAPHIC SCALE**

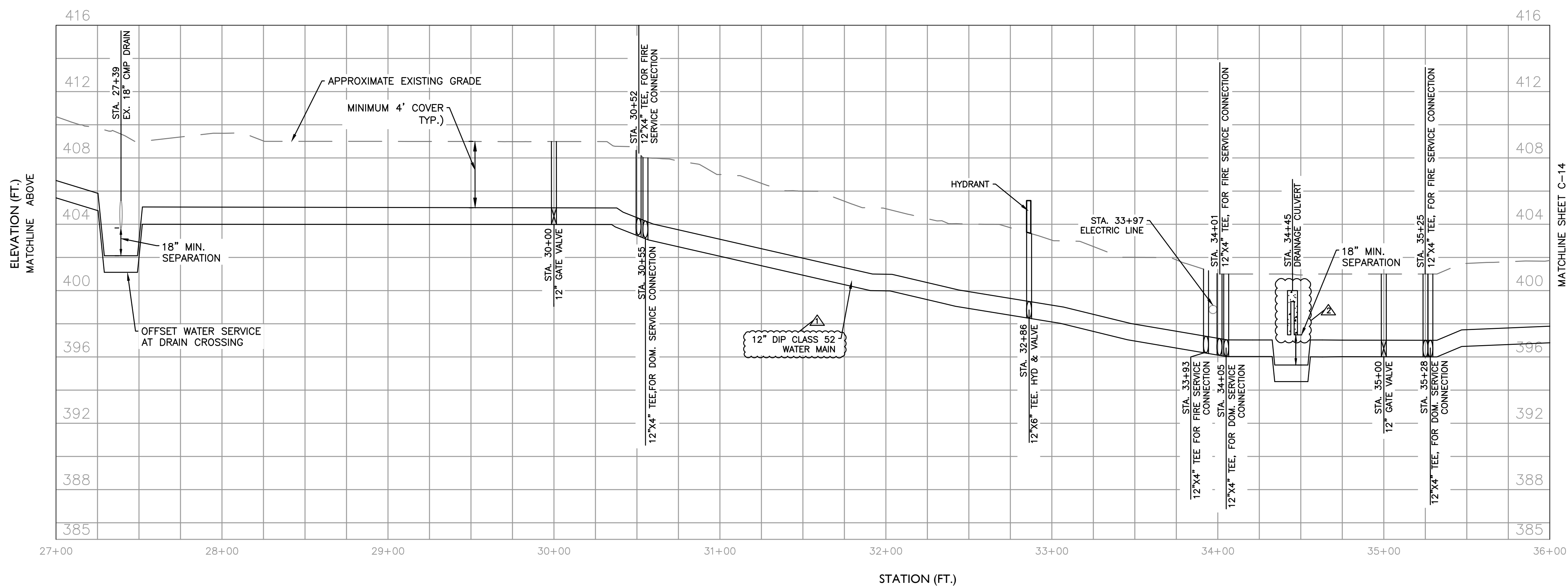
( IN FEET )  
1 inch = 20 ft.

**KEY PLAN**  
SCALE: 1"=1000'

 WHITE PLAINS, NEW YORK 10604 (914) 467-5300	CONSULTANT SEAL  MICHAEL D. MERLINO LICENSED PROFESSIONAL ENGINEER	UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW.  IN CHARGE OF <b>WDM</b> CHECKED BY <b>ALG</b> MADE BY <b>JG</b>	RECORD DRAWING CERTIFICATION <input type="checkbox"/> AS BUILT - CHANGES AS NOTED <input type="checkbox"/> AS BUILT - NO CHANGES				<b>WESTCHESTER COUNTY, NEW YORK</b> <b>DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION</b> DIVISION OF ENGINEERING  DOMESTIC WATER LINE IMPROVEMENTS, WESTCHESTER COUNTY AIRPORT TOWNS OF HARRISON AND NORTH CASTLE AND VILLAGE OF RYE BROOK, NEW YORK CIVIL ALIGNMENT PLAN NO. 9	CONTRACT NUMBER 19-925	SHEET NUMBER C-11												
			<table border="1" style="width:100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th>REVISION NUMBER</th> <th>DATE</th> <th>MADE BY</th> <th>APP'D BY</th> <th>REVISION</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>04/15/22</td> <td>JG</td> <td>ALG</td> <td>REVISED PER WCDOH COMMENTS</td> </tr> <tr> <td>1</td> <td>10/29/21</td> <td>JG</td> <td>ALG</td> <td>REVISED PER WCDOH COMMENTS</td> </tr> </tbody> </table>	REVISION NUMBER	DATE	MADE BY		APP'D BY	REVISION	2	04/15/22	JG	ALG	REVISED PER WCDOH COMMENTS	1	10/29/21	JG	ALG	REVISED PER WCDOH COMMENTS	CONTRACTOR NAME _____ SIGNATURE _____ TITLE _____ DATE _____	
REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION																	
2	04/15/22	JG	ALG	REVISED PER WCDOH COMMENTS																	
1	10/29/21	JG	ALG	REVISED PER WCDOH COMMENTS																	



**WATER MAIN PROFILE - AIRPORT ROAD (STA B18+00 TO B27+00)**  
 VERTICAL SCALE: 1"=4'  
 HORIZONTAL SCALE: 1"=40'



**WATER MAIN PROFILE - NEW KING STREET (STA B27+00 TO B36+00)**  
 VERTICAL SCALE: 1"=4'  
 HORIZONTAL SCALE: 1"=40'



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IN CHARGE OF **WDM**  
 CHECKED BY **ALG**  
 MADE BY **JG**

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
2	04/22/22	JG	ALG	REVISED PER NYSDEC COMMENTS
1	10/29/21	JG	ALG	REVISED PER WCDQH COMMENTS

RECORD DRAWING CERTIFICATION

AS BUILT - CHANGES AS NOTED  
 AS BUILT - NO CHANGES

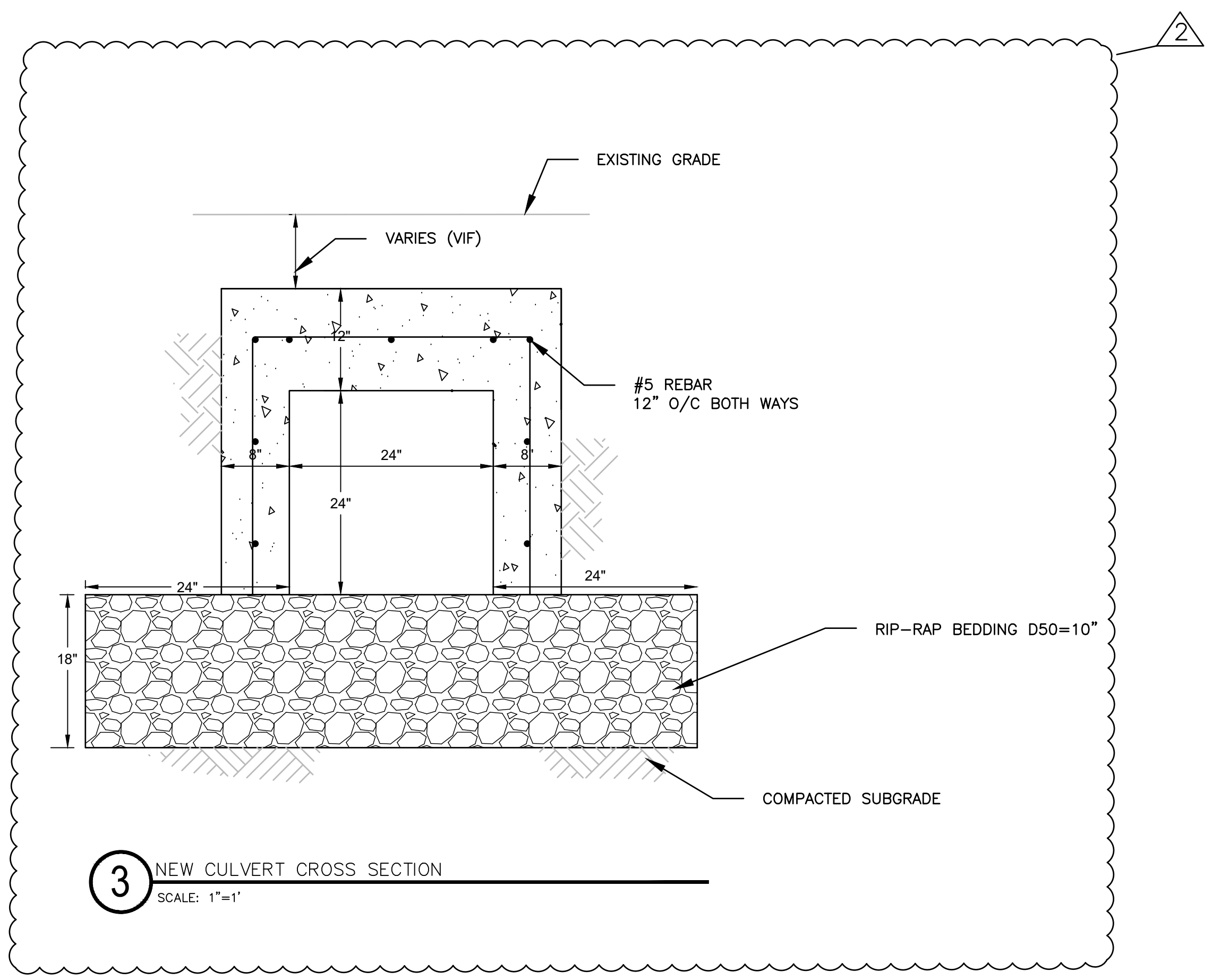
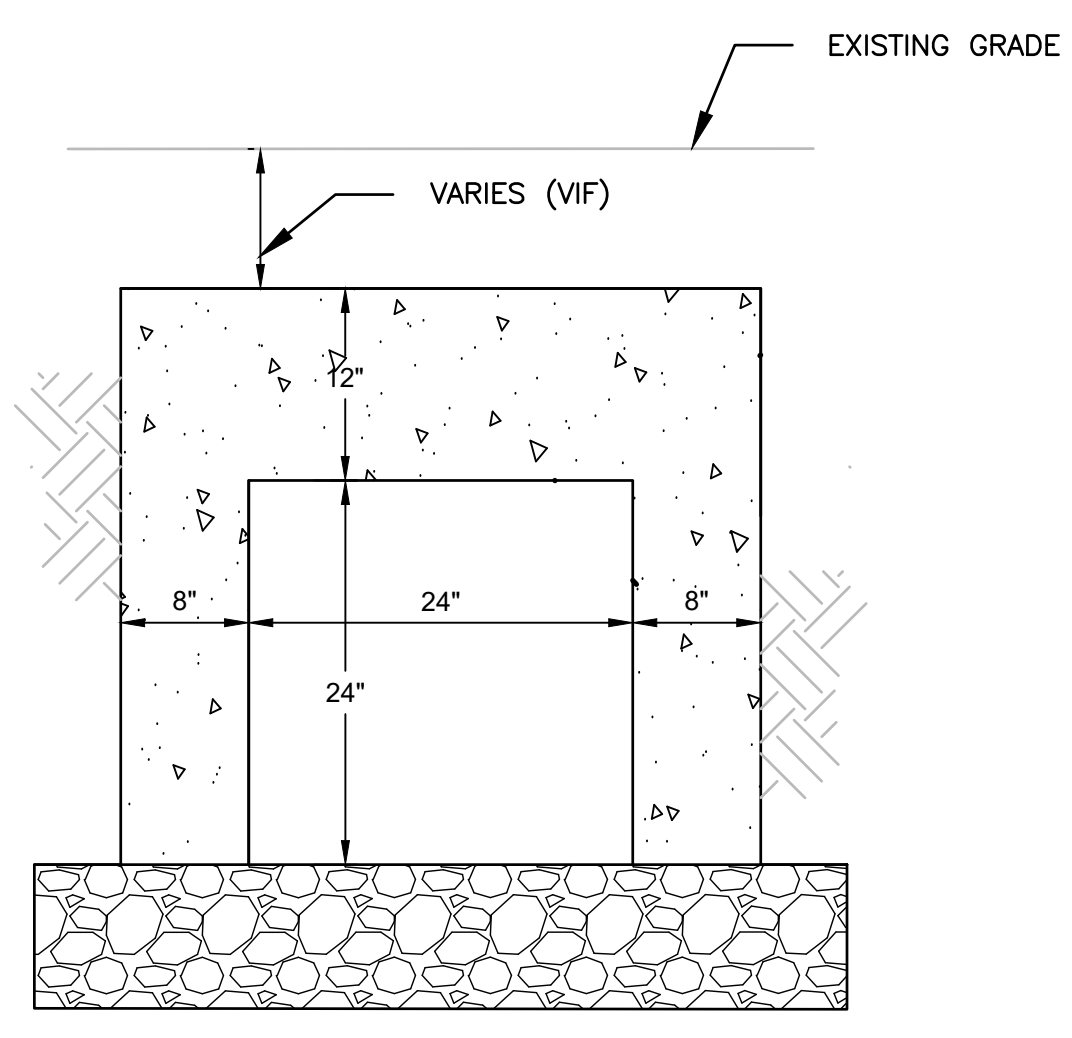
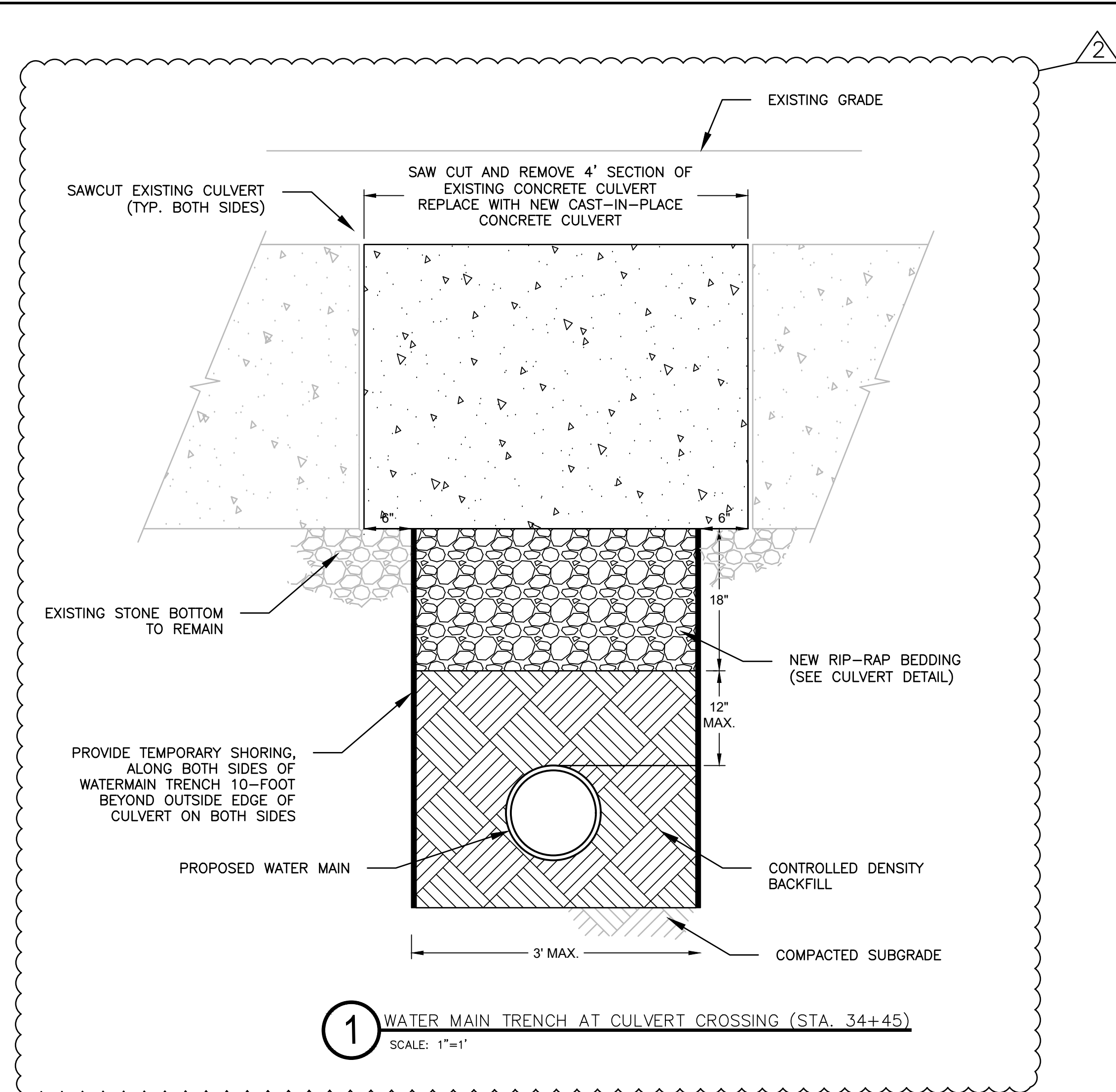
CONTRACTOR: \_\_\_\_\_ PROJECT COORDINATOR: \_\_\_\_\_

NAME: \_\_\_\_\_ NAME: \_\_\_\_\_  
 SIGNATURE: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_  
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**WESTCHESTER COUNTY, NEW YORK**  
**DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION**  
 DIVISION OF ENGINEERING



DOMESTIC WATER LINE IMPROVEMENTS, WESTCHESTER COUNTY AIRPORT  
 TOWNS OF HARRISON AND NORTH CASTLE AND VILLAGE OF RYE BROOK, NEW YORK  
 CIVIL  
 PROFILE NO. 2

CONTRACT NUMBER 19-925	SHEET NUMBER C-13
SHEET NO. ## OF ##	
SCALE: AS SHOWN DATE: 05-14-2021	
DPW FILE NO.	REV. NO.



NOTES:

- CONTRACTOR TO MAINTAIN FLOW THROUGH CULVERT AT ALL TIMES. PLUS UPSTREAM END AND BY-PASS PUMP.

 WHITE PLAINS, NEW YORK 10604 (914) 467-5300		UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW.						RECORD DRAWING CERTIFICATION				WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING		CONTRACT NUMBER 19-925	SHEET NUMBER C-21	
		IN CHARGE OF <u>WDM</u>	2	04/22/22	JG	ALG	REVISED PER NYSDEC COMMENTS	CONTRACTOR		PROJECT COORDINATOR		DOMESTIC WATER LINE IMPROVEMENTS, WESTCHESTER COUNTY AIRPORT TOWNS OF HARRISON AND NORTH CASTLE AND VILLAGE OF RYE BROOK, NEW YORK CIVIL SITE DETAILS NO. 3		SHEET NO. ## OF ##	SCALE: AS SHOWN DATE: 05-14-2021	DPW FILE NO.
CHECKED BY <u>ALG</u>	1	10/29/21	JG	ALG	REVISED PER WCDOH COMMENTS	NAME _____	NAME _____	SIGNATURE _____	SIGNATURE _____	TITLE _____	TITLE _____	DATE _____	DATE _____			
MADE BY <u>JG</u>	REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION	AS BUILT - CHANGES AS NOTED										
						AS BUILT - NO CHANGES										