



MEMORANDUM

CITY OF WATERTOWN, NEW YORK
PLANNING AND COMMUNITY DEVELOPMENT DEPARTMENT
245 WASHINGTON STREET, ROOM 305, WATERTOWN, NY 13601
PHONE: 315-785-7741 – FAX: 315-785-7829

TO: Planning Board Members
FROM: Michael A. Lumbis, Planning and Community Development Director
SUBJECT: Site Plan Approval – 1851 State Street
DATE: August 31, 2022
Request: Site Plan Approval for the construction of a drive-thru Internet Teller Machine, interior asphalt loop, and related site improvements at 1851 State Street, Parcel Number 5-21-122.200
Applicant: Kurt Hackwelder, RLA, of Otisco Design on behalf of Northern Credit Union
Proposed Use: Drive-thru Internet Teller Machine
Property Owners: Northern Credit Union

Submitted:

Property Survey: Yes	Preliminary Architectural Drawings: Yes
Site Plan: Yes	Preliminary Site Engineering Plans: Yes
Vehicle and Pedestrian Circulation Plan: Yes	Construction Time Schedule: No
Landscaping and Grading Plan: Yes	Description of Uses, Hours & Traffic Volume: Yes

SEQRA: Unlisted

Jefferson County 239-m Review: Yes

Zoning Information:

District: Commercial	Maximum Lot Coverage: None
Setback Requirements: F: 20', S: 5', R: 25'	Buffer Zones Required: No

Project Overview: The applicant proposes to construct one (1) drive-thru Internet Teller Machine (ITM), an interior asphalt loop, and other related site improvements including, site utilities, concrete curbing, site lighting, a monument identification sign and landscape plantings, located at 1851 State Street, Parcel Number 5-21-122.200. The proposed project is expected to disturb 0.73 acres or 31,799 square feet of the referenced parcel.

The applicant proposes a stormwater management approach that utilizes temporary stormwater detention and infiltration to mitigate off-site discharges of stormwater runoff. The project will also consist of a new driveway entrance along State Street and new landscaping.

Existing Conditions: The site is an undeveloped 1.46-acre commercial property consisting of grass lawn, a small concrete pad, and trees that border the south and east property lines. The site drains to the east and northeast corner of the property via sheet drainage and shallow concentrated flow, where it continues as shallow concentrated flow at the back of adjacent properties. There are no existing stormwater management practices.

Vehicular and Pedestrian Circulation: Vehicular access to the site will be through a proposed curb cut on State Street that will be located in the center of the parcel. Traffic will enter the site and flow in a counterclockwise direction to the ITM which will be located on the western portion of the site. An existing sidewalk along the entire parcel frontage will be replaced as part of the project. The proposed driveway apron, curb and sidewalk along State Street will be constructed to New York State Department of Transportation specifications.

Parking: The ITM use described in the proposed site plan does not require parking spaces.

Zoning: The proposed use as a bank or monetary institution is an allowed use in the Commercial District.

Storm Water and Drainage: After reviewing the submission, the City's Engineering Department has determined that the proposed action will not require a SWPPP as the disturbed area does not meet the threshold required by the State of New York. If any future development does occur the Engineering Department will require further review and a SWPPP may be necessary.

It was stated in the Stormwater Report that the detention and infiltration basin is temporary. The applicant should clarify the meaning of "temporary".

The Stormwater Management Report and calculations will need to be signed and stamped by a Professional Engineer licensed in the State of New York.

The proposed erosion and sediment control measures are adequate. Controls must be in place prior to the commencement of construction activities at the site, other than which is required to install such controls.

Lighting: Currently this site does not have any internal lighting but receives minimal light overflow from a streetlight located at the southeast corner of the parcel. The applicant proposes to install eight (8) new light poles and nine (9) LED fixtures, although there is no information provided regarding the style or height of the fixtures. A photometric plan was included with the application which shows that light spillage across the property lines will be minimal.

Landscaping: The proposed site has several trees of various sizes, of which five will be removed as part of the project. The applicant is proposing landscape additions along the east, south, and west sides of the parcel. The planting schedule will consist of both evergreen and deciduous trees, shrubs, perennial flowers, and grasses. The applicant must ensure that the proposed landscaping is maintained for the life of the proposed use.

SEQR: Part 1 of the Short Environmental Assessment Form has been completed by the applicant. The applicant indicates in Question #12(b) that this project site, or a portion of it is in or adjacent to an area designated as being sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO)

archaeological site inventory. The applicant should provide additional information/clarification regarding this question. The applicant indicates in Question #17(a) that the proposed action will create storm water discharge flows to adjacent properties. The Stormwater Report indicates that the site already drains to the east and northeast corner of the property via sheet drainage and shallow concentrated flow, where it continues as shallow concentrated flow at the back of adjacent properties. The applicant proposes to create a shallow lawn detention area at the northeast corner of the proposed project limits. The plan allows for the maintenance of existing drainage patterns and will result in post construction flows that will not exceed existing conditions.

The City Council, as Lead Agency, will complete Parts 2 and 3 of the Short Environmental Assessment Form (EAF) and will make a determination of significance.

Permits: The applicant must obtain the following permits and other documentation, minimally, prior to construction: Building Permit, Sidewalk Permit, Curb Cut Permit, Sign Permit, NYSDOT Highway Work Permit and Zoning Compliance Certificate.

Signage: The applicant is proposing a new monument sign near the entrance/exit. The proposed signage will not be approved as part of the site plan approval process. The applicant will need to apply for a separate sign permit prior to the installation of the sign.

It should be noted that the allowed sign surface area for a parcel is based on the linear feet of building frontage. In this case, there is no building frontage except for the ITM. Depending on the proposed size of the sign, the applicant/owner may need to apply for an area variance to exceed the allowed sign surface area. Staff will work with the applicant/owner to make this determination and assist with any other necessary applications.

Other: The general site plan on the cover sheet shows future potential development consisting of a building, parking and other site development. Any future construction at the site will require site plan review and approval.

Summary: The following should be included in the motion to recommend approval:

1. The applicant must submit one copy of the Stormwater Report and calculations that is signed and stamped by a Professional Engineer licensed in the State of New York.
2. The applicant should provide additional information regarding Question #12(b) on the Short Environmental Assessment Form that indicates that the project site, or a portion of it is in or adjacent to an area designated as being sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory.
3. The applicant must obtain, minimally, the following permits prior to construction: Building Permit, Sidewalk Permit, Curb Cut Permit, Sign Permit, NYSDOT Highway Work Permit and Zoning Compliance Certificate.

cc: City Council Members
Michael Delaney, City Engineer
Dorothy Wolff, Northern Credit Union, 120 Factory Street, Watertown, NY 13601

August 16, 2022



Mr. Michael A. Lumbis
City of Watertown
245 Washington Street, Room 305
Watertown, NY 13601

Re: Site Plan Approval Application – Cover Letter
Northern Credit Union Drive-thru Development – 1851 State Street

Dear Michael,

Please find the attached application materials for a new “Northern Credit Union Drive-thru Development” located on the vacant commercial property at 1851 State St., Watertown, NY 13601. The project proposed (1) Northern Credit Union drive-thru ITM (Internet Teller Machine) with associated asphalt loop drive. Other site materials include, concrete curbing, site lighting, a monument identification sign and landscape plantings.

The NYSDOT was contacted during site plan development. The proposed highway entrance location and layout is based on guidance from the local NYSDOT Resident Engineer.

Stormwater management has been reviewed. The limited addition of impervious pavements on the site has led to a negligible increase in stormwater runoff. To mitigate the small increases in calculated runoff, a retention/infiltration basin has been provided. This is calculated to infiltrate 100% of runoff for all design storms and a Stormwater Report has been included with this submission. In the event that the potential future full development of the site is pursued, a full SWPPP and associated testing, maintenance agreements, etc. shall be produced.

Other submission materials include cut sheets for the ITM kiosk, monument sign, and light pole/fixture.

Respectfully submitted,

OTISCO DESIGN, DPC

A handwritten signature in black ink, appearing to read "Kurt Hackwelder", is written over a horizontal line.

Kurt Hackwelder, RLA



City of Watertown
SITE PLAN APPROVAL APPLICATION FORM

*City of Watertown, Planning and Community Development Dept.
245 Washington Street, Room 305, Watertown, NY 13601
Phone: 315-785-7741 Email: planning@watertown-ny.gov*

Received:

Please Note: The Site Plan Approval Application form is for projects where the building or parking area coverage of the lot will increase by more than 2,500 square feet.

Please provide responses for all sections and submit all required materials as noted on Page 2. Failure to submit all required information by the submittal deadline may result in Staff **not** placing your request on the agenda for the upcoming Planning Board meeting.

PROPERTY INFORMATION:

PROPOSED PROJECT NAME: _____
TAX PARCEL NUMBER: _____
PROPERTY ADDRESS: _____
ZONING DISTRICT: _____

APPLICANT INFORMATION:

NAME: _____
ADDRESS: _____

PHONE NUMBER: _____
E-MAIL ADDRESS: _____

PROPERTY OWNER INFORMATION (if different from applicant):

NAME: _____
ADDRESS: _____

PHONE NUMBER: _____
E-MAIL ADDRESS: _____

ENGINEER/ARCHITECT/LANDSCAPE ARCHITECT INFORMATION:

NAME: _____
ADDRESS: _____

PHONE NUMBER: _____
E-MAIL ADDRESS: _____

REQUIRED MATERIALS:

** The following drawings with the listed information **ARE REQUIRED, NOT OPTIONAL.** If the required information is not included and/or addressed, Planning Staff **will not** process the Site Plan Application.

All of the following drawings **must** be adequately dimensioned, including radii and must use darker line work and text for proposed features than for existing features.

- COVER LETTER:** Must clearly and fully explain the proposed project in sufficient detail.

- BOUNDARY and TOPOGRAPHIC SURVEY:** Depict existing features as of the date of the Site Plan Application. A Professional Land Surveyor licensed and currently registered to practice in the State of New York must perform the survey and create the map. **At least one copy** must contain the surveyor's original PLS wet stamp and an original signature. The rest may be copies thereof. The survey drawing **must** depict and label all of the following:
 - **All** existing features and utilities on and within 50 feet of the subject property
 - **All** existing property lines (bearings and distances), margins, acreage, zoning, easements, right-of-ways, existing land use, reputed owner, adjacent reputed owners and tax parcel numbers
 - One-foot contours are with appropriate spot elevations
 - North arrow and graphic scale
 - All elevations are North American Vertical Datum of 1988 (NAVD88).

- DEMOLITION PLAN** (if applicable)
 - Depict and label **all** existing features on and within 50 feet of the subject property and (using darker text) all items proposed for demolition.

- SITE PLAN:** The drawing must clearly label all proposed features as "proposed" and use darker line work and text for all proposed features than for existing features. It must also include a reference to the coordinate system used (NYS NAD83-CF preferred). In addition, the drawing **must** depict and label all of the following:
 - **All** proposed **above** ground features
 - **All** proposed easements and right-of-ways
 - Land use, zoning, and tax parcel number
 - Proposed parking and loading spaces, including all required ADA accessible spaces
 - Proposed snow storage areas
 - Refuse Enclosure Area (Dumpster), if applicable. **Please note:** Section 161-19.1 of the Zoning Ordinance states, "No refuse vehicle or refuse container shall be parked or placed within 15 feet of a party line without the written consent of the adjoining owner, if the owner occupies any part of the adjoining property."
 - North arrow and graphic scale

GRADING PLAN: This drawing must depict and label **all** of the following:

- **All** proposed **below** ground features, including elevations and inverts
- **All** proposed **above** ground features, including easements and right-of-ways
- One-foot existing contours (shown dashed and labeled with appropriate spot elevations)
- One-foot proposed contours (shown and labeled with appropriate spot elevations)
- Sediment and Erosion control, unless separate drawings are included as part of a Stormwater Pollution Prevention Plan (SWPPP).
- All elevations are North American Vertical Datum of 1988 (NAVD88).

UTILITY PLAN: This drawing must include a note stating, "All water main and service work must be coordinated with the City of Watertown Water Department. The Water Department requirements supersede all other plans and specifications provided." It must also depict and label **all** of the following:

- **All** proposed above and below ground features
- **All** existing above and belowground utilities, including water, sanitary water, stormwater, electric, gas, telephone, cable, fiber optic, etc.
- **All** existing and proposed easements and right-of-ways.

LANDSCAPING PLAN: This drawing must depict and label **all** of the following:

- **All** proposed **above** ground features
- **All** proposed trees, shrubs, other plantings and other proposed landscaping additions, keyed to a plant schedule that includes the scientific name, common name, size, quantity, etc. **Please note:** For additional landscaping requirements where nonresidential districts and land uses abut land in any residential district, please refer to Section 310-59, Landscaping of the City's Zoning Ordinance.
- **The Site Plan complies with and meets acceptable guidelines set forth in Appendix A - Landscaping and Buffer Zone Guidelines (August 7, 2007).**

VEHICULAR AND PEDESTRIAN CIRCULATION PLAN

- Depict all vehicular **and** pedestrian traffic circulation, including a delivery or refuse vehicle and a City fire truck entering and exiting the property.
- Sidewalks within the City Right-of-Way **must** meet Public-Right-of-Way (PROWAG) standards.
- **The Site Plan is consistent with and, wherever possible, incorporates principles set forth in Appendix B – City of Watertown Complete Streets Policy (January 17, 2017).**

PHOTOMETRIC PLAN (if applicable): This drawing must depict and label **all** of the following:

- All proposed **above** ground features
- Photometric spot elevations or labeled photometric contours of the property. **Please note:** Light spillage across **all** property lines shall not exceed 0.5 foot-candles.

CONSTRUCTION DETAILS and NOTES:

- Provide all details and notes necessary to complete the project including, but not limited to, landscaping, curbing, catch basins, manholes, water line, pavement, sidewalks, trench, lighting, trash enclosure, etc.
- Provide maintenance and protection and traffic plans and notes for all required work within City streets including driveways, water laterals, sanitary laterals, storm connections, etc.
- The drawings must include the following note: "All work to be performed within the City of Watertown margin will require sign-off from a Professional Engineer, licensed and currently registered to practice in the State of New York, that the work was built according to the approved site plan and applicable City of Watertown standards. Compaction testing will be required for all work to be performed within the City of Watertown margin and must be submitted to the City of Watertown Codes Department."

PRELIMINARY ARCHITECTURAL PLANS (if applicable): These plans must include **all** of the following for proposed buildings: Floor plan drawings, including finished floor elevations, exterior elevations including exterior materials and colors, as well as roof outlines depicting shape, slope and direction.

ENGINEERING REPORT

**** The engineering report at a minimum must include the following:**

- Project location and description
- Existing and proposed sanitary sewer flows and summary
- Water flows and pressure
- Storm Water Pre and Post Construction calculations and summary
- Traffic impacts
- Lighting summary
- Landscaping summary

COMPLETED SEQR ENVIRONMENTAL ASSESSMENT FORM: (Contact us if you need help choosing between the Short EAF and the Full EAF). The Complete EAF is available online at: <http://www.dec.ny.gov/permits/6191.html>

GENERAL INFORMATION

- All items must include a valid stamp and an original signature by a Professional Engineer, Architect, Landscape Architect, or Surveyor licensed and currently registered to practice in the State of New York.
- If required, submit a copy of the Stormwater Pollution Prevention Plan (SWPPP) to the City of Watertown Engineering Department for review to obtain an MS4 SWPPP Acceptance Form.

Post Construction SWPPP Requirements to Complete:

In accordance with City Code Section 260, provide the following:

- *Submit a detailed as-built topographic and boundary survey of the site with all stormwater practices.*
 - *Perform and submit results of insitu infiltration testing, updated drainage area maps and hydraulic calculations in a comprehensive Engineering Report based on As-Built Conditions.*
 - *Submit a detailed post construction Maintenance Plan for all Stormwater Management Practices (SMP's) and provide a Maintenance Agreement with irrevocable letter of credit for approval. Maintenance Agreement shall be filed at the County Clerk's Office as a deed restriction on the property.*
- ** If required, a copy of all submittals sent to the New York State Department of Environmental Conservation (NYSDEC) for the sanitary sewer extension permit will also be sent to the City of Watertown Engineering Department.
 - ** If required, a copy of all submittals sent to the New York State Department of Health (NYSDOH) will also be sent to the City of Watertown Engineering Department.
 - ** When NYSDEC or NYSDOH permitting is required, the property owner/applicant shall retain a licensed Professional Engineer to perform inspections of the proposed utility work and to certify the completed works were constructed in substantial conformance with the approved plans and specifications.**
 - Signage is not approved as part of this submission. It requires a Sign Permit from the City Code Enforcement Bureau. See Section 310-52.2 of the Zoning Ordinance.
 - For non-residential uses, the applicant must include the proposed Hours of Operation.

OPTIONAL MATERIALS:

- PROVIDE AN ELECTRONIC (.DWG) COPY OF THE SITE PLAN WITH AS-BUILT REVISIONS.** This will assist the City in keeping our GIS mapping up-to-date.

SUBMITTAL INSTRUCTIONS:

Submit 15 complete collated sets of all required materials, addressed to:

Michael A. Lumbis, Planning and Community Development Director
City of Watertown
245 Washington Street, Room 305
Watertown, NY 13601

If the application requires Jefferson County Planning Board review, then the applicant must submit 16 "sets." Planning Staff will inform the applicant if this is necessary.

- Submissions must be collated and properly folded.
- If the applicant is not the property owner, the submission must include a signature authorization form or letter signed by the owner authorizing the applicant to apply on behalf of the owner.
- For any item(s) not checked in the Site Plan Approval Checklist, attach an explanation and comments.
- Provide an electronic copy of the entire submission in the form of a single, combined PDF file of the entire application, including cover letter, plans, reports, and all submitted material.
- Submit the required Application Fee

\$150 for Site Plan Minor

\$250 for Site Plan Major (any proposal to disturb more than 1 acre represents a Site Plan Major)

SIGNATURE

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

Applicant's name (please print) _____

Applicant's Signature Dorothy Wolff _____ Date: _____

Meeting Information: The Planning Board normally meets at 3:00 p.m. on the first Tuesday of every month in Council Chambers at City Hall, 245 Washington Street. The application deadline is 14 days prior to the scheduled meeting date. Planning Board action does not represent final approval, as the Planning Board only votes to make a recommendation to City Council, which holds the sole authority to grant Site Plan Approval.

Occasionally, due to holidays or other reasons, meetings may occur on other dates and/or times. The City will announce any changes to meeting dates in advance on its website at www.watertown-ny.gov. Planning Staff *strongly* recommends scheduling a pre-application meeting prior to submitting a Site Plan Application. The entire site plan application process typically takes four-to-six weeks, depending on whether the application requires Jefferson County Planning Board review.

Short Environmental Assessment Form

Part 1 - Project Information

Instructions for Completing

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

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

Part 1 – Project and Sponsor Information			
Name of Action or Project:			
Project Location (describe, and attach a location map):			
Brief Description of Proposed Action:			
Name of Applicant or Sponsor:		Telephone:	
		E-Mail:	
Address:			
City/PO:		State:	Zip Code:
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? _____ acres			
b. Total acreage to be physically disturbed? _____ acres			
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? _____ acres			
4. Check all land uses that occur on, are adjoining or near the proposed action:			
5. Urban Rural (non-agriculture) Industrial Commercial Residential (suburban)			
<input type="checkbox"/> Forest Agriculture Aquatic Other(Specify):			
<input type="checkbox"/> Parkland			

5. Is the proposed action,	NO	YES	N/A
a. A permitted use under the zoning regulations?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. Consistent with the adopted comprehensive plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Is the proposed action consistent with the predominant character of the existing built or natural landscape?	NO	YES	
	<input type="checkbox"/>	<input type="checkbox"/>	
7. Is the site of the proposed action located in, or does it adjoin, a state listed Critical Environmental Area? If Yes, identify: _____	NO	YES	
	<input type="checkbox"/>	<input type="checkbox"/>	
8. a. Will the proposed action result in a substantial increase in traffic above present levels?	NO	YES	
	<input type="checkbox"/>	<input type="checkbox"/>	
b. Are public transportation services available at or near the site of the proposed action?	<input type="checkbox"/>	<input type="checkbox"/>	
c. Are any pedestrian accommodations or bicycle routes available on or near the site of the proposed action?	<input type="checkbox"/>	<input type="checkbox"/>	
9. Does the proposed action meet or exceed the state energy code requirements? If the proposed action will exceed requirements, describe design features and technologies: _____ _____	NO	YES	
	<input type="checkbox"/>	<input type="checkbox"/>	
10. Will the proposed action connect to an existing public/private water supply? If No, describe method for providing potable water: _____ _____	NO	YES	
	<input type="checkbox"/>	<input type="checkbox"/>	
11. Will the proposed action connect to existing wastewater utilities? If No, describe method for providing wastewater treatment: _____ _____	NO	YES	
	<input type="checkbox"/>	<input 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?	NO	YES	
	<input type="checkbox"/>	<input type="checkbox"/>	
	<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: _____ _____ _____	NO	YES	
	<input type="checkbox"/>	<input type="checkbox"/>	
	<input 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 type="checkbox"/> Forest Agricultural/grasslands Early mid-successional <input type="checkbox"/> Wetland <input type="checkbox"/> Urban 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 type="checkbox"/>	<input type="checkbox"/>
16. Is the project site located in the 100-year flood plan?	NO	YES
	<input type="checkbox"/>	<input 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 type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>
	<input 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 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 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 type="checkbox"/>	<input type="checkbox"/>
I CERTIFY THAT THE INFORMATION PROVIDED ABOVE IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE Applicant/sponsor/name: _____ Date: _____ Signature: <u>Kurt Hackwelder</u> Title: _____		



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



Part 1 / Question 7 [Critical Environmental Area]	No
Part 1 / Question 12a [National or State Register of Historic Places or State Eligible Sites]	No
Part 1 / Question 12b [Archeological Sites]	Yes
Part 1 / Question 13a [Wetlands or Other Regulated Waterbodies]	Yes - Digital mapping information on local and federal wetlands and waterbodies is known to be incomplete. Refer to EAF Workbook.
Part 1 / Question 15 [Threatened or Endangered Animal]	Yes
Part 1 / Question 15 [Threatened or Endangered Animal - Name]	Northern Long-eared Bat
Part 1 / Question 16 [100 Year Flood Plain]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
Part 1 / Question 20 [Remediation Site]	No

Project:

Date:

***Short Environmental Assessment Form
Part 2 - Impact Assessment***

Part 2 is to be completed by the Lead Agency.

Answer all of the following questions in Part 2 using the information contained in Part 1 and other materials submitted by the project sponsor or otherwise available to the reviewer. When answering the questions the reviewer should be guided by the concept “Have my responses been reasonable considering the scale and context of the proposed action?”

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

Project:

Date:

Short Environmental Assessment Form Part 3 Determination of Significance

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

Check this box if you have determined, based on the information and analysis above, and any supporting documentation, that the proposed action may result in one or more potentially large or significant adverse impacts and an environmental impact statement is required.

Check this box if you have determined, based on the information and analysis above, and any supporting documentation, that the proposed action will not result in any significant adverse environmental impacts.

Name of Lead Agency

Date

Print or Type Name of Responsible Officer in Lead Agency

Title of Responsible Officer

Signature of Responsible Officer in Lead Agency

Signature of Preparer (if different from Responsible Officer)

NORTHERN CREDIT UNION DRIVE-THRU DEVELOPMENT

WATERTOWN, NY

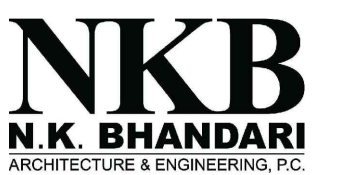
AUGUST 18, 2022



5047 Clear Meadow,
Camillus, New York 13031
(315) 558-4321 tel.
www.phzarch.com



4683 Manor Hill, Dr. | Syracuse, NY 13219 | (315) 430.7754



1005 W. Fayette Street, Suite 500
Syracuse, NY 13204
Phone 315.428.1177
Fax 315.428.9822
www.nkbpc.com

ASM Engineering
Engineering, Consulting and Design

6744 Townline Road
Syracuse, NY 13211
Tel: 315.455.2107
Fax: 315.455.7101



DRIVE-THRU DEVELOPMENT

1851 STATE STREET
WATERTOWN, NY 13601

PHZ Project Number: 22-009

Seal Signature:



ISSUED AND REVISION NOTIFICATION

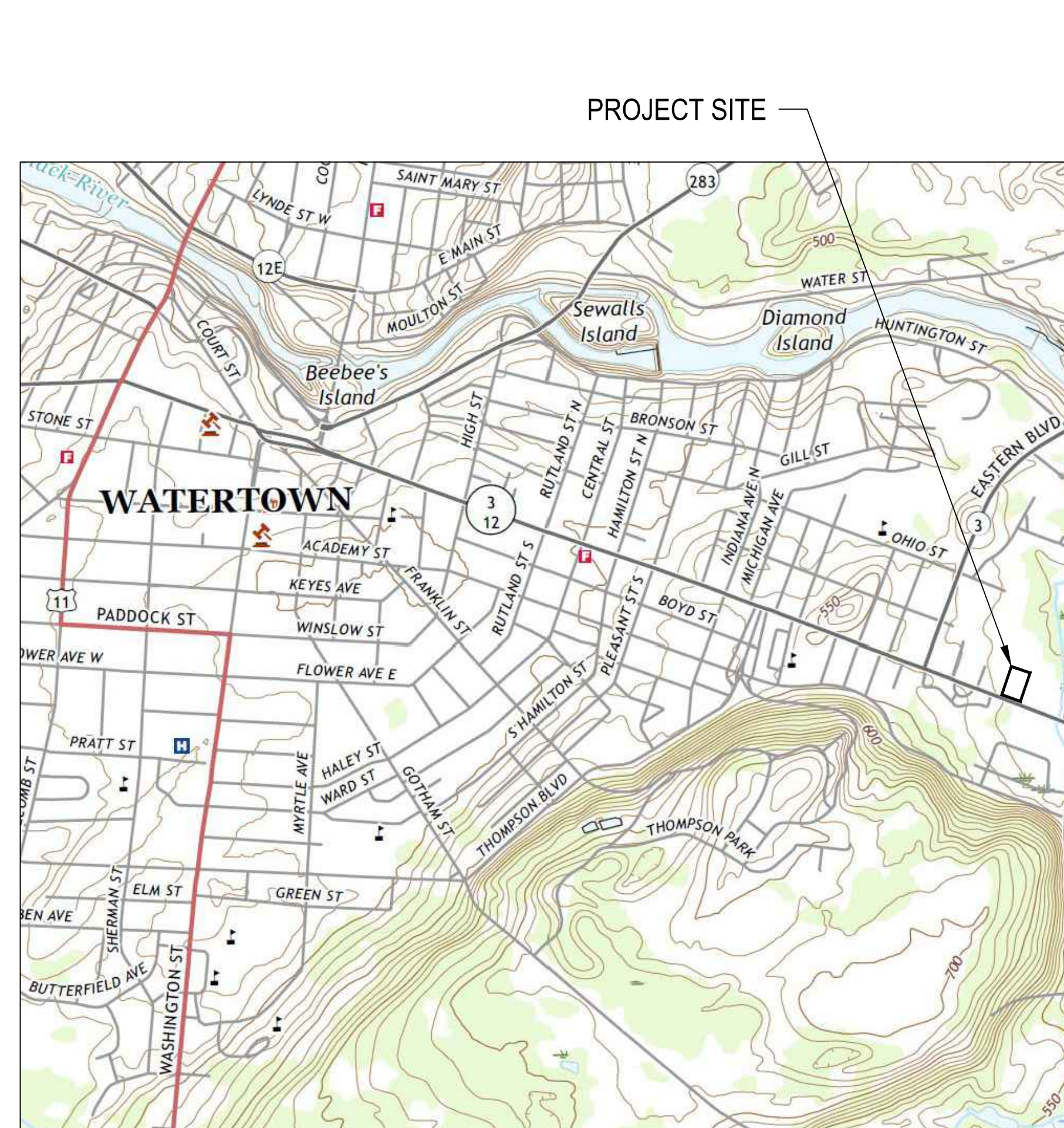
No.	Description	Date

△ - Symbol Indicates Revision Issued

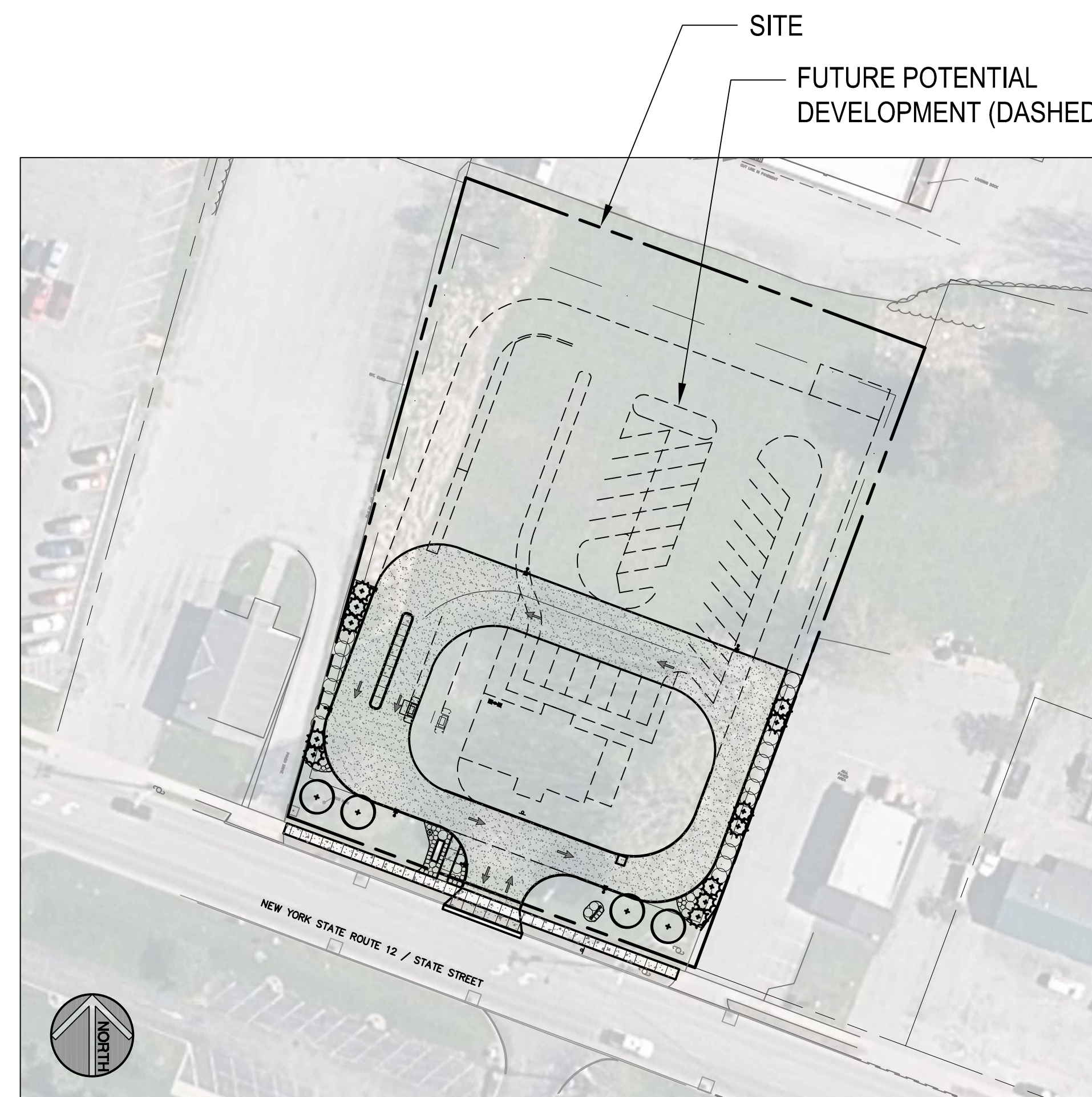
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COVER SHEET

G-001



B1 LOCATION MAP
1" = 50'



B2 GENERAL SITE PLAN
1" = 50'

ZONING / PLANNING DATA

1. PROPERTY ADDRESS:

1851 STATE ST.
WATERTOWN, NEW YORK 13601

2. PROPERTY OWNER:

NORTHERN CREDIT UNION
120 FACTORY ST.
WATERTOWN, NEW YORK 13212
TELE: 1-315-782-0155
POINT OF CONTACT: DOROTHY WOLFF

3. PROJECT DESCRIPTION:

THE PROJECT IS FOR THE DEVELOPMENT OF A NEW DRIVE-THRU ATM KIOSK ON AN EXISTING COMMERCIAL ZONED PROPERTY LOCATED IN THE CITY OF WATERTOWN, NY. A NEW ATM KIOSK IS PROPOSED WITH ASPHALT DRIVE, LANDSCAPING, SIGNAGE AND SITE LIGHTING.

4. ZONE: COMMERCIAL

5. REQUIRED SETBACKS:

FRONT YARD: 20 FT MIN.
SIDE YARD: 5 FT MIN.
REAR YARD: 25 FT MIN.

PROVIDED SETBACKS:

FRONT YARD: 62 FT
SIDE YARD: 40 FT
REAR YARD: 232 FT

6. LOT SIZE:

REQUIRED:
5,000s.f. (0.18ac.) MIN.

LOT SIZE:
63,597s.f. (1.46ac.)

7. PARKING:

STALL SIZE: 5 / 1,000s.f.

PROPOSED: N/A

8. SIGNAGE:

SIZE: 200s.f. MAX.

PROPOSED: 100s.f.

DRAWING LIST

LANDSCAPE INFORMATION
L-001 GENERAL INFORMATION

LANDSCAPE
L-100 NYSDOT SITE PLAN
L-100.1 NYSDOT WORK ZONE TRAFFIC CONTROL PLAN
L-101 DEMOLITION AND EROSION CONTROL PLAN
L-102 LAYOUT AND PLANTING PLAN, GRADING PLAN
L-501 SITE DETAILS

REFERENCE
LC-100 SURVEY
SITE LIGHTING PHOTOMETRIC PLAN



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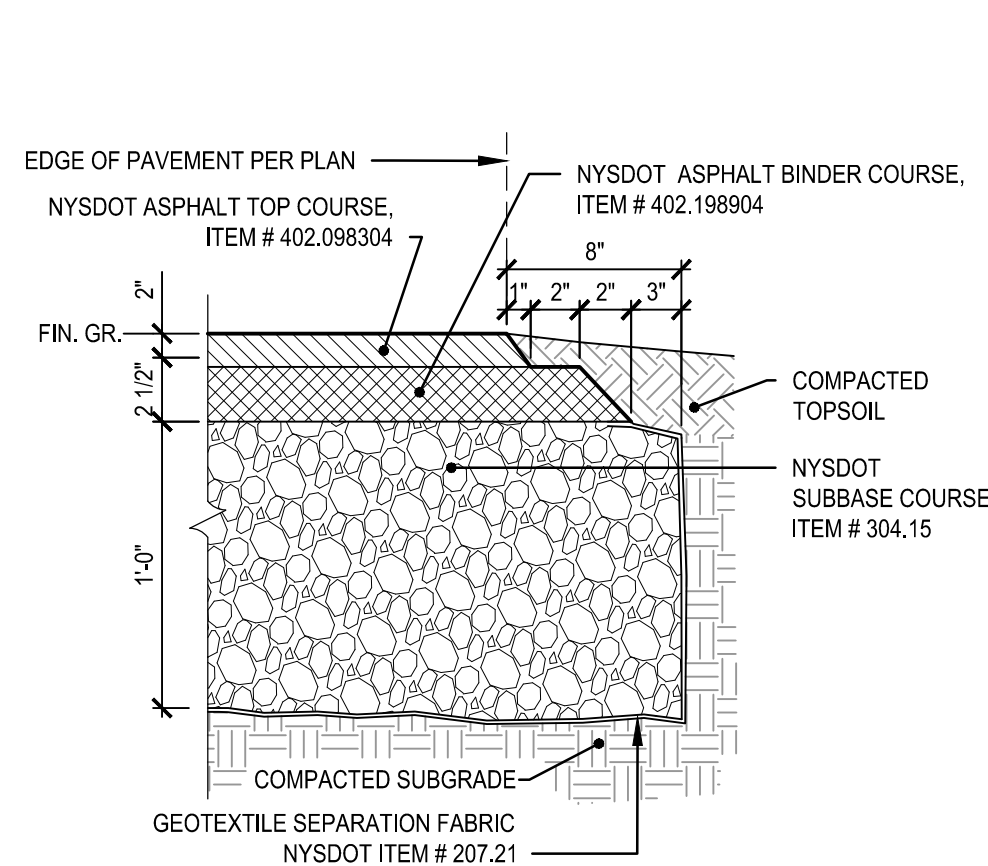
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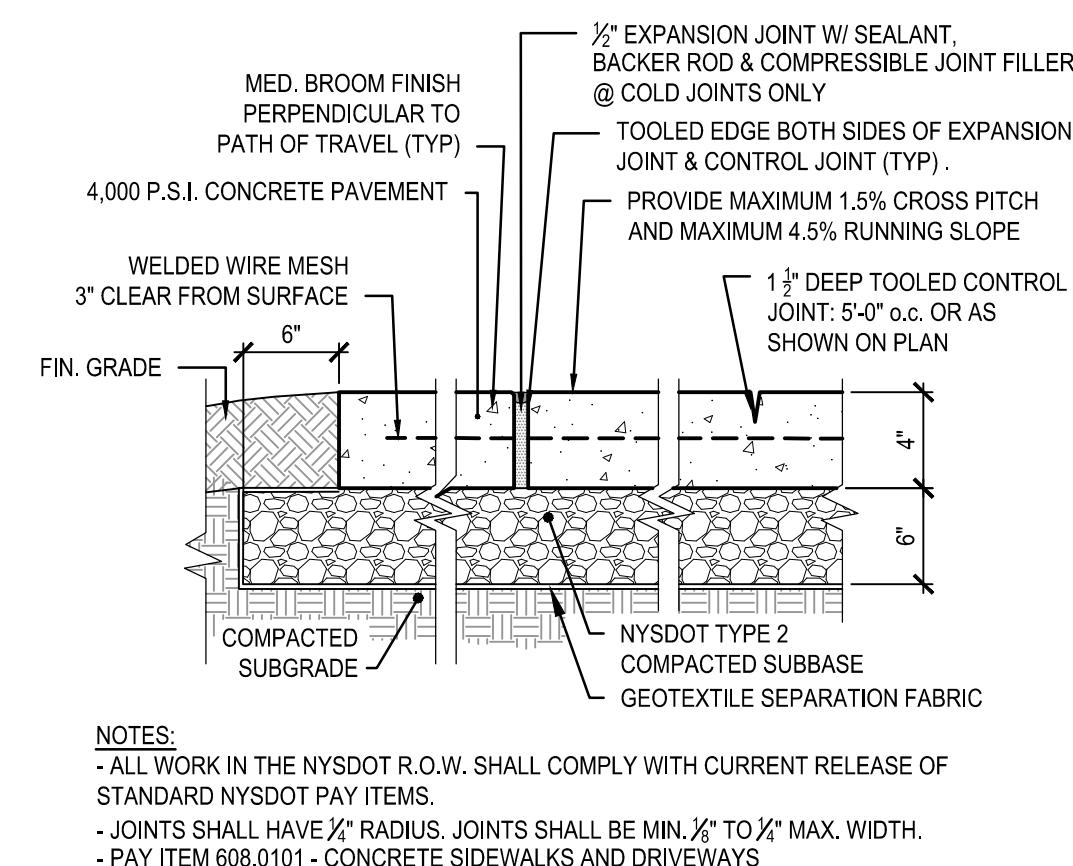
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SITE PLAN

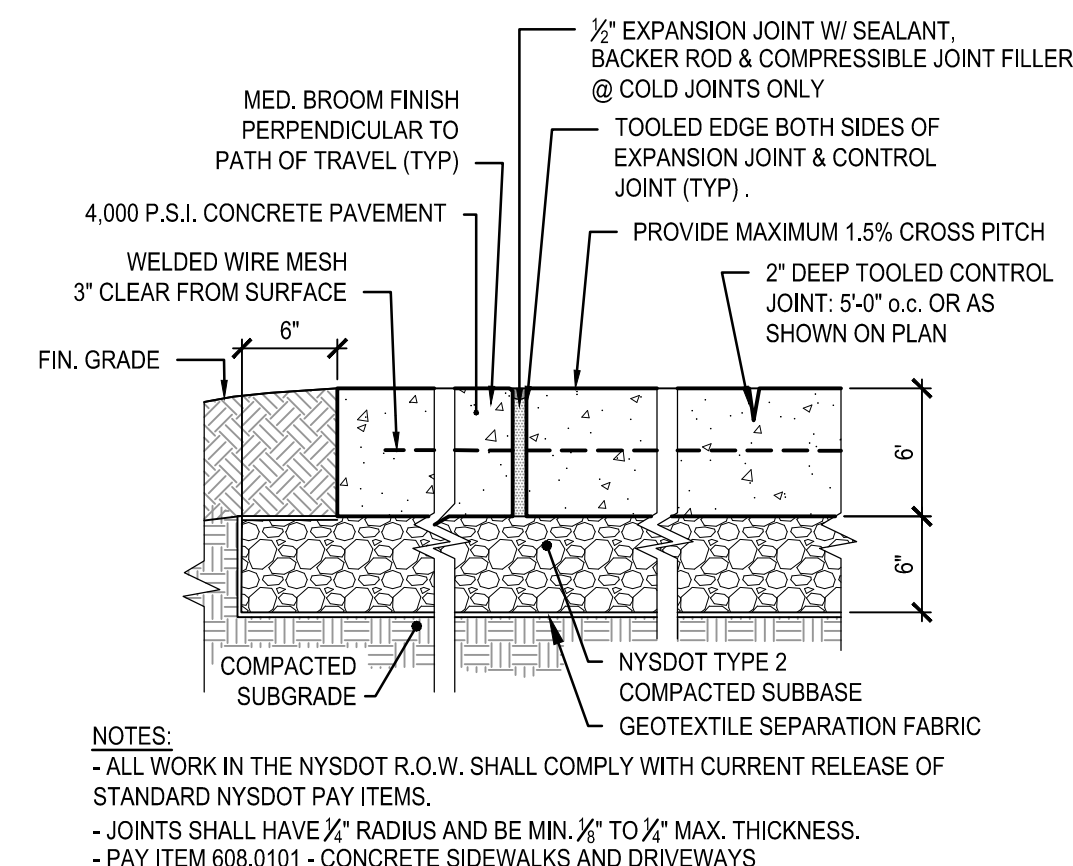
L-100



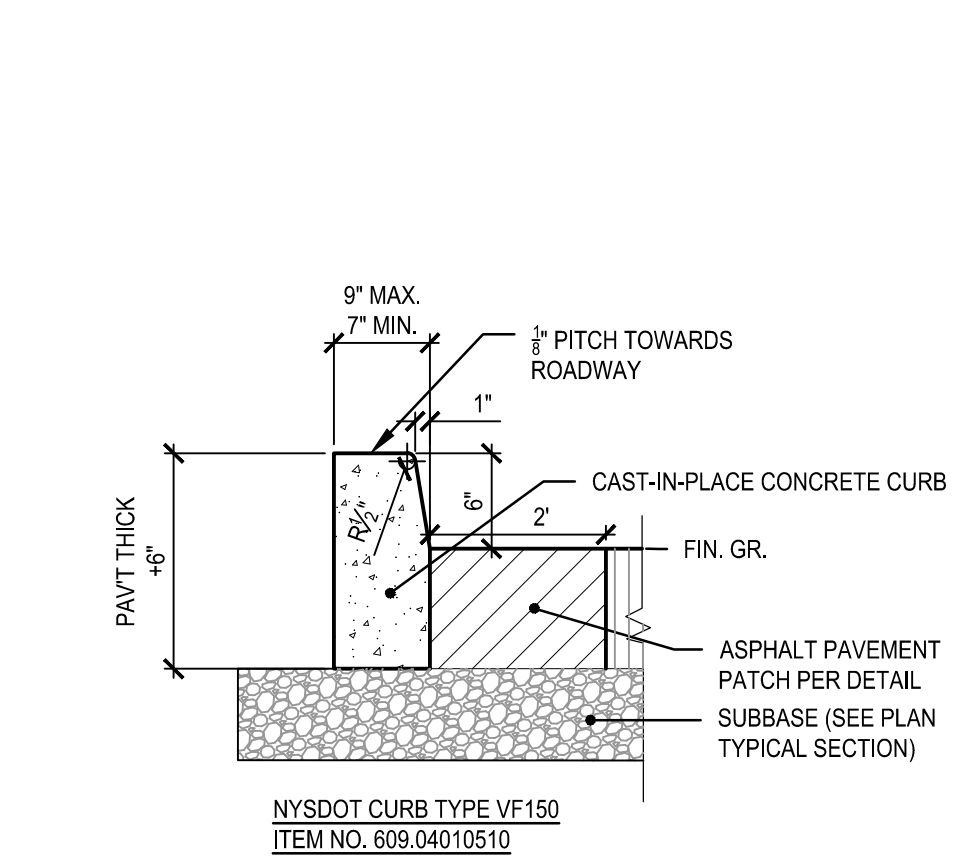
NYSDOT ASPHALT DRIVE



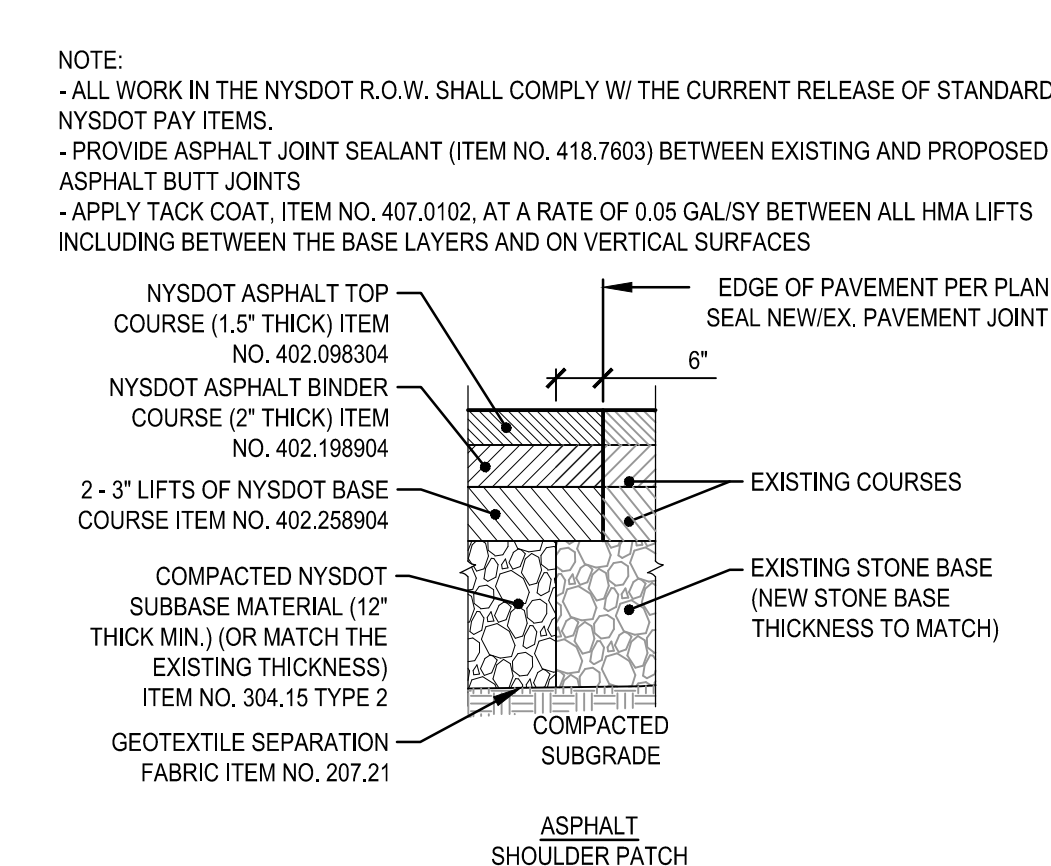
NYSDOT CONCRETE WALK



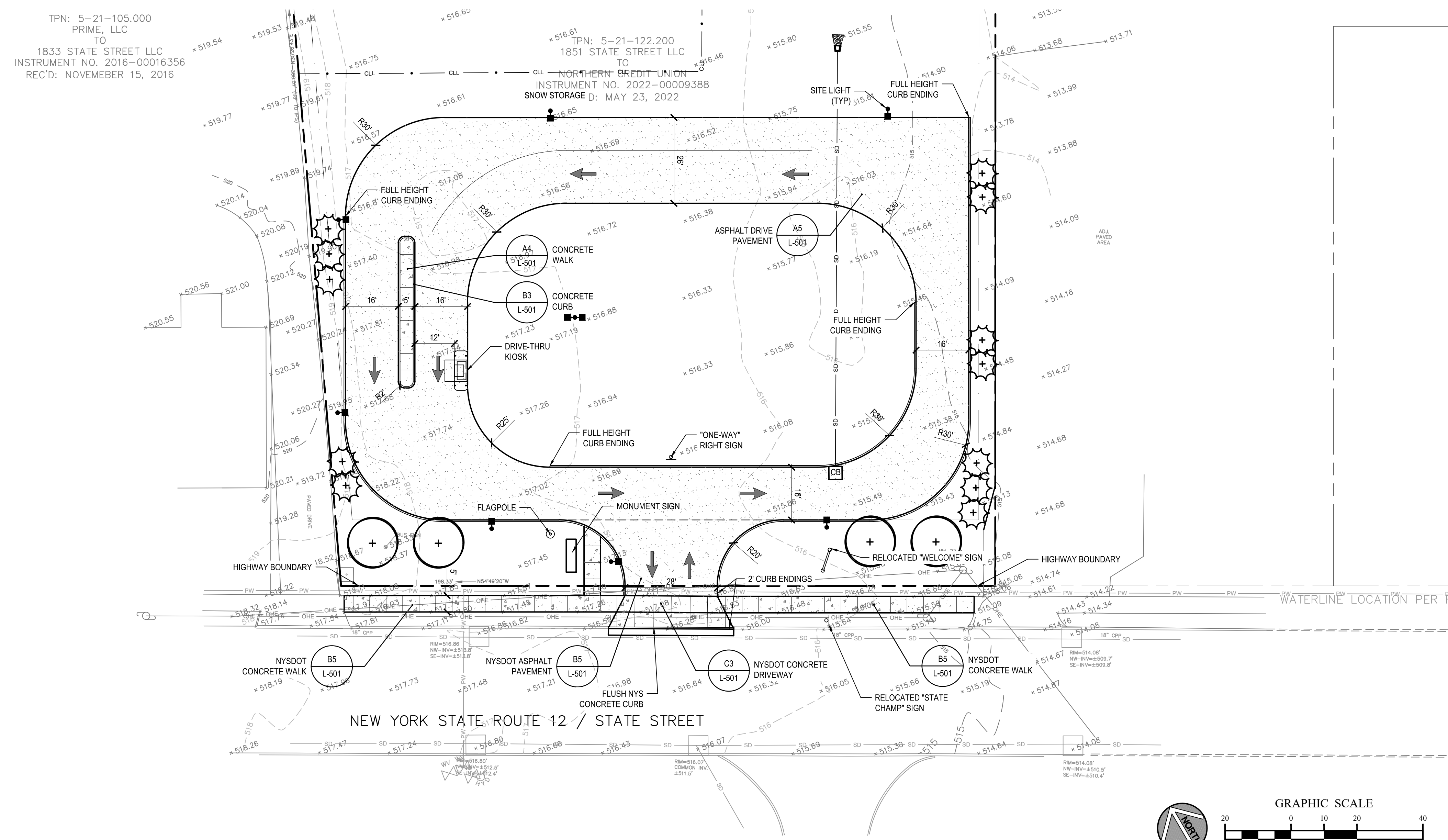
NYSDOT CONCRETE DRIVE



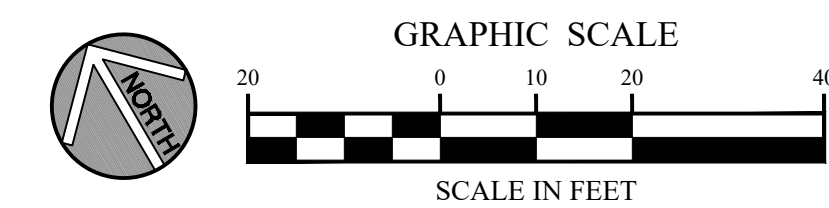
NYSDOT CONCRETE CURB



NYSDOT SHOULDER PATCH



NEW YORK STATE ROUTE 12 / STATE STREET

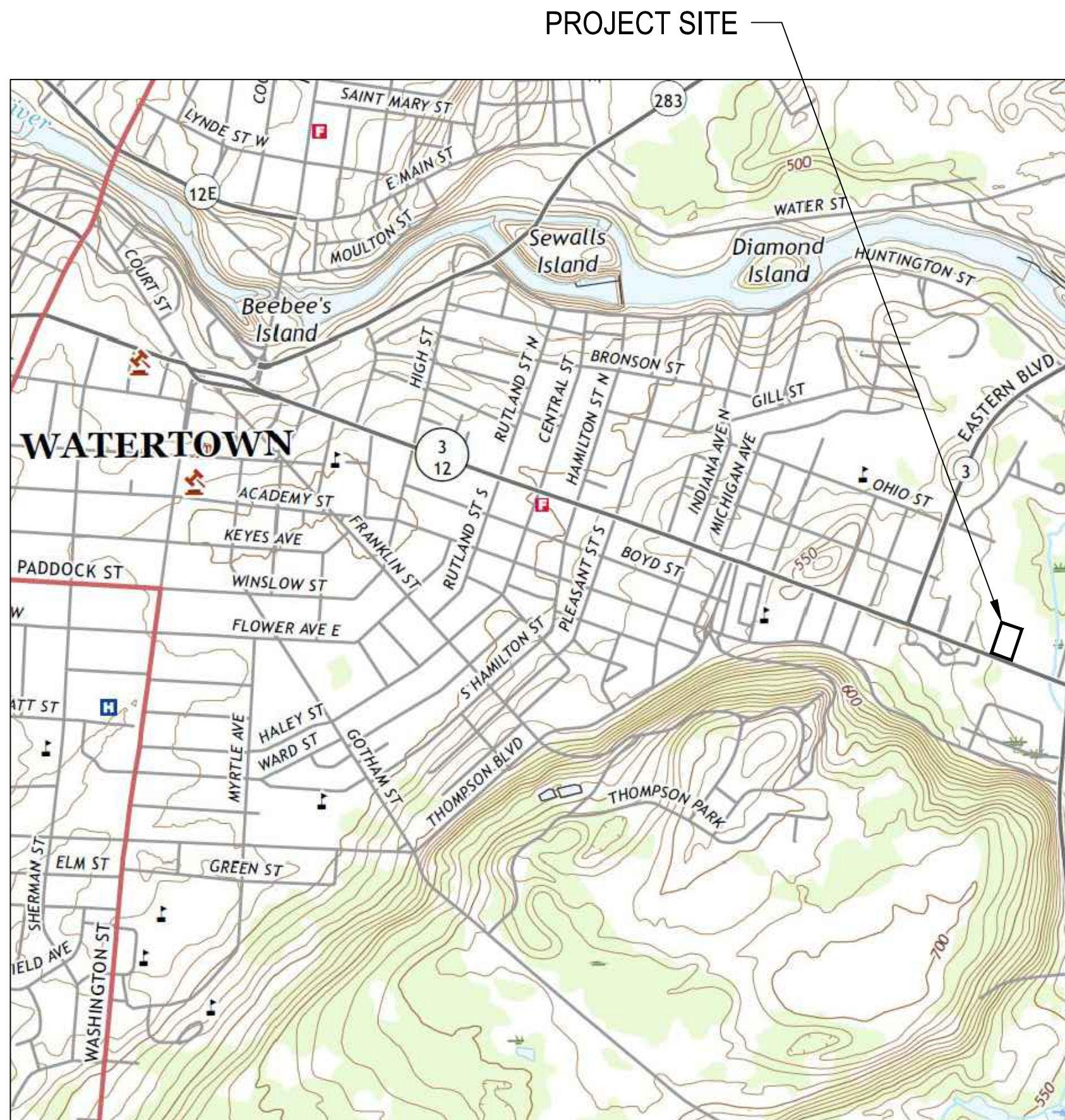


NYSDOT STANDARD GENERAL PLAN NOTES

- The Roadway shall be kept clean of mud and debris at all times.
- Roadside drainage shall be maintained at all times.
- Materials, equipment and vehicles shall not be stored or parked within the New York State Right-of-Way.
- Work Zone Traffic Control shall comply with the 2009 edition of the National Manual on Uniform Traffic Control Devices for Streets and Highways and the New York State Supplement, and shall be in accordance with the NYSDOT contract or Highway Work Permit documents and as deemed necessary by the NYS Engineer in Charge.
- Notify New York State Department of Transportation resident engineer at the applicable Residency, three working days prior to working in the state Right-of-Way.
Jefferson County: 315-785-7981
- Notify DIG Safety New York three working days prior to digging, drilling or blasting at 1-800-962-7962, for a utility stake-out.
- All work contemplated and materials used within the NYS Right-of-Way shall be covered by and in conformity with the NYS Department of Transportation May 1, 2008 specifications book and any subsequent addenda along with any appropriate current NYS Department of Transportation standard sheets, except as modified in these plans and in the itemized proposal. Metric units may be converted to English.
- Quality control of asphalt concrete shall meet the requirements of section 402 of the standard specifications. Asphalt course depths shown on the plans are compacted depths.
- No night work will be allowed unless prior approval is given by the Department. Additional maintenance and protection of traffic will be required including the addition of reflective materials and lighting.
- Hazardous waste notification - The permittee accepts the Right-of-Way of the state highway in its as is condition. The Department of Transportation makes no representation as to the absence of underground tanks, structures, features or similar impediments to the completion of the work permitted hereunder. Should permittee find some previously unknown underground impediments to its work, the Department of Transportation shall have no obligation to cure, remove, remedy or otherwise deal with such previously unknown underground impediments. The Department will permit the permittee to remove, modify or otherwise deal with such underground tanks, structure feature or impediment if such is done in a manner which meets acceptable engineering practice and is pre-approved by the Department of Transportation. Should permittee determine that such unforeseen underground impediment renders permittees work as authorized by this permit unfeasible, permittee shall have the option of restoring the highway to its original condition and not performing such work.
- Open cutting of the roadway shall not be allowed unless permission is granted in writing, by the regional Traffic Engineer.

A1 NYSDOT STANDARD NOTES

A2 SITE PLAN



B1 LOCATION MAP
NOT TO SCALE

1. WORK ZONE TRAFFIC CONTROL REVISIONS

Proposed revisions to the Work Zone Traffic Control (WZTC) plan or modifications to the 619 Standard Sheets shall be submitted to the engineer for the review and approval by the Regional Traffic Engineer prior to the planned implementation of such revisions or modifications. The Contractor shall not implement the proposed revisions without approval from the Regional Traffic Engineer. When applicable, NYSDOT Work Zone Traffic Control (WZTC) typical applications shall be used. Typical applications can be found at <https://webapps.dot.ny.gov/work-zone-traffic-control>

2. TRAVEL LANE WIDTHS IN WORK ZONES

Where not shown in the WZTC plans or otherwise authorized by NYS DOT (or the Engineer), travel lane widths in work zones shall be a minimum of 11 ft on freeways, ramps, expressways and multi-lane* conventional roadways and 10 ft on all other conventional roadways.
*(Multi-lane roadways are those with two or more thru lanes in one or both directions.)

3. DAILY LANE, RAMP AND SHOULDER CLOSURE RESTRICTIONS

Work zones shall be restricted to one side of the roadway at a time in each direction on divided roadways, unless approved by the Engineer. The Contractor shall schedule work so that all travel lanes and ramps in each direction are open when the Contractor's operations are closed down or substantially closed down. Daily closures may occur off of long-term closures and shall be subject to daily closure restrictions. Work zones shall be restricted to one side of the roadway at a time on undivided highways.

4. FLAGGING OPERATIONS

When a pedestrian approaches a Flagging Station, the flagger shall stop traffic and direct the pedestrian to a safe route through the work area. Flaggers shall coordinate the flagging of the work zone to ensure pedestrians can safely proceed through the area. If there is more than the occasional pedestrian within the project limits, refer to the site specific pedestrian WZTC plan.

5. HOLIDAY CLOSURE RESTRICTIONS

Daily lane, ramp and shoulder closures shall not be permitted on state owned roadways during major holidays.

Below are holiday periods based on guidelines from EI 17-010. All restrictions are from 6:00 AM on the first day until 6:00 AM on the last day of the restriction:

- 2022
- 6:00 am Friday, May 27, 2022 thru 6:00 am Tuesday, May 31, 2022 - (Memorial Day Holiday)
- 6:00 am Friday, July 1, 2022 thru 6:00 am Tuesday, July 5, 2022 - (July 4th Holiday)
- 6:00 am Friday, September 2, 2022 thru 6:00 am Tuesday, September 6, 2022 - (Labor Day Holiday)
- 6:00 am Wednesday, November 23, 2022 thru 6:00 am Monday, November 28, 2022 - (Thanksgiving Holiday)
- 6:00 am Friday, December 23, 2022 thru 6:00 am Tuesday, December 27, 2022 - (Christmas Holiday)
- 6:00 am Friday, December 30, 2022 thru 6:00 am Tuesday, January 3, 2023 - (New Year's Holiday)

6. NOTIFICATION REQUIREMENTS

Region 3 has a Work Zone Traffic Control (WZTC) Notification Policy which requires Engineers/Contractor to notify the Regional Transportation Management Center (RTMC) prior to allowing a contractor to implement Work Zone Traffic Control activities within the highway right of way. Work Zone Notification is required for the following:

All Other State Highways: all lane closures whose duration will be greater than 2 hours and all road/bridge closures. The Contractor shall report proposed WZTC activities noted above to the TMC by NOON of the business day (i.e. Monday through Friday excluding holidays) preceding the proposed WZTC activity. Failure to do so will result in disapproval to perform the unreported WZTC activity until the above notification requirements are satisfied. No planned WZTC activity shall be implemented without first receiving clearance from the RTMC.

7. VEHICLE RESTRICTIONS

The Contractor shall report any restriction (as defined below) on highways, ramps, or bridges at least six (6) business weekdays in advance of the restriction. Six (6) days lead time is necessary to provide the RTMC adequate time to prevent issuance of Special Hauling Permits that would route oversized vehicles over the restricted section of this contract.

- Restrictions shall be defined as one or more of the following:
1. Complete closure of a highway, ramp or bridge.
 2. Installation of barrier or channelizing devices that result in an unobstructed width less than 18 feet along a highway, ramp or bridge.
 3. Suitable driving surfaces of less than 18 feet in width.
 4. Available vertical clearance above the highway is less than 14 feet in height.
 5. Work would limit vehicle length (i.e. turning ability)
 6. Changing the load capacity of a highway, ramp or bridge.

The Contractor shall also give verbal notification at least seven (7) business days (i.e. Monday through Friday excluding holidays) prior to and at the end of a restriction on any roadway to the Oswego County, 911 Center (315) 343-1313

8. WORK AREA COORDINATION

The Contractor shall coordinate work activities with other contracts within and/or adjacent to the contract work limits.

9. ACCESS

The Contractor shall ensure that active lanes of traffic on Freeways are not crossed by pedestrian workers. For all other highways, the contractor shall ensure that pedestrian workers cross active lanes of traffic only at properly marked or unmarked crosswalks and/or dedicated pedestrian walkways. It is required that the Project Safety and Health Plan address access to each work and staging area.

Where it is feasible, vehicles and equipment used for the work and transporting of workers to/from the work site shall enter and leave the area closed by channelizing devices within the Termination Area of the Temporary Traffic Control Zone. Where such access within the Termination Area is not feasible, other areas for entry and exit shall be determined and included in the Project Safety & Health Plan, including illustrated examples (Typicals) to clearly show the temporary traffic control elements that will be provided.

10. CHANNELIZING DEVICES

All channelizing devices shall be placed so as to provide a 2 foot lateral clearance to the traveled way unless otherwise shown on the plans. Where possible a lateral buffer space of 2 foot minimum shall be provided between the work space and the channelizing devices. Channelizing device spacing (center to center) shall be 40' maximum for posted speed limits 40 mph or greater and 20' maximum for posted speed limits 35 mph or less. Standard cones and tubular markers shall not be used for channelization and delineation during the hours of darkness, which is defined as the period between sunset and sunrise.

11. SIGNS

All construction signs shall be mounted at a height of 7 feet above the edge of travel lane.

Signs shall not encroach more than 4" into shoulders used by pedestrians or bicycles. Where shoulder widths are limited and signs cannot be erected beyond the shoulder, construction signs may need to be mounted on concrete median barriers, bridge parapets, etc.

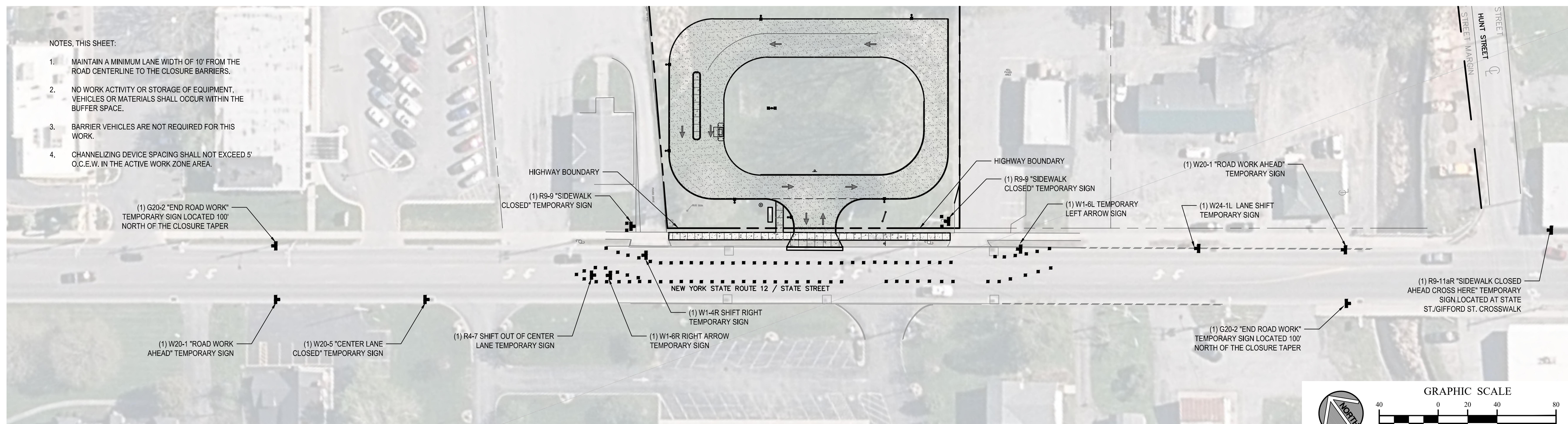
12. DELINEATORS

Single large delineators with retroreflective ASTM type IX sheeting 6" x 12", shall be installed at 20 foot intervals for all locations where temporary concrete barrier is used and for all locations where permanent concrete barrier, guide railing, and/or bridge railing is adjacent to a lane and/or shoulder where the width is less than existing. The color of the retroreflective delineator surface shall match the color of the edge of pavement markings as viewed by approaching traffic. Delineators shall be clearly visible under normal conditions from a distance of 1000 feet when illuminated by the high beams of standard automobile headlights. The cost (including removal) shall be included in the price bid for item 619.01, basic work zone traffic control.

13. MISCELLANEOUS (local or Permit projects)

1. The Contractor shall be aware that the Work Zone Traffic Control is a very critical item of the permit and shall be provided in accordance with Section 619 "Work Zone Traffic Control" of the Standard Specifications, the 2009 edition of the National Manual on Uniform Traffic Control Devices for Streets and Highways and the New York State Supplement. The Contractor shall be responsible for Work Zone Traffic Control at all times for the duration of the permitted work.
2. Actual field conditions may require other signs and other arrangements of signs. Distances shall be adapted to prevailing conditions. Signs shall be located to provide optimum visibility. Signs that are not applicable shall be covered or obscured from sight. All sign numbers refer to the 2009 edition of the National Manual on Uniform Traffic Control Devices for Streets and Highways and the New York State Supplement.
3. Pedestrian accommodations shall be maintained for the duration of the proposed work. Any disturbed areas within the State Right-of-Way shall be adequately fenced to prevent pedestrian access when the contractors operations are shut down.
4. Materials, equipment and vehicles shall not be stored or parked within the State Right-of-Way before work begins or after contractor's operations are shut down. Staging areas outside the right-of-way shall be used to stockpile all construction materials. During working hours, no construction material may be stored or placed on the roadway or roadbed except within a protected work area.
5. Vehicles belonging to the Contractor or workers shall not be parked within 30 feet of the edge of pavement along a roadway being used by the general public, unless they are parked within a protected work area. During non-working hours, construction equipment and materials shall not be stored within 30 feet of the edge of pavement.
6. W20-7A "Flagger" signs shall be used whenever flagging occurs for more than a brief period of time. The signs shall be promptly removed, covered, or faced away from traffic when the flagging operation ceases. All flagging stations and lane closures should be located to ensure maximum visibility.
7. No drop-off greater than six inches shall be left overnight within 30 feet of the edge of pavement. Drop-offs less than six inches will be permitted if proper delineation and signing is provided, and prior permission is granted in writing by a representative of the Department. A drop-off is considered eliminated if tapered away by a 1 on 6 slope or flatter.
8. Care shall be taken to insure that no damage occurs to the existing pavement/shoulder/curb areas as a result of construction equipment movement.
9. The Contractor may submit revisions to this plan for approval, but any change that alters the basic concepts of the plan must be approved by the NYSDOT Regional Director or his designee.

B2 WORK ZONE TRAFFIC CONTROL NOTES



A1 WORK ZONE TRAFFIC CONTROL PLAN
1" = 40'



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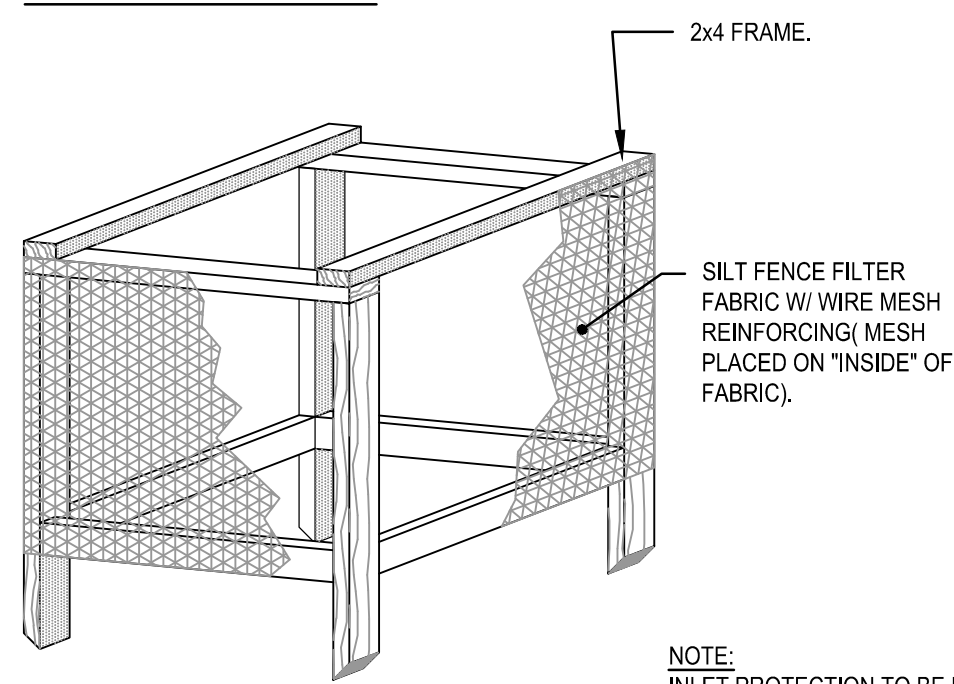
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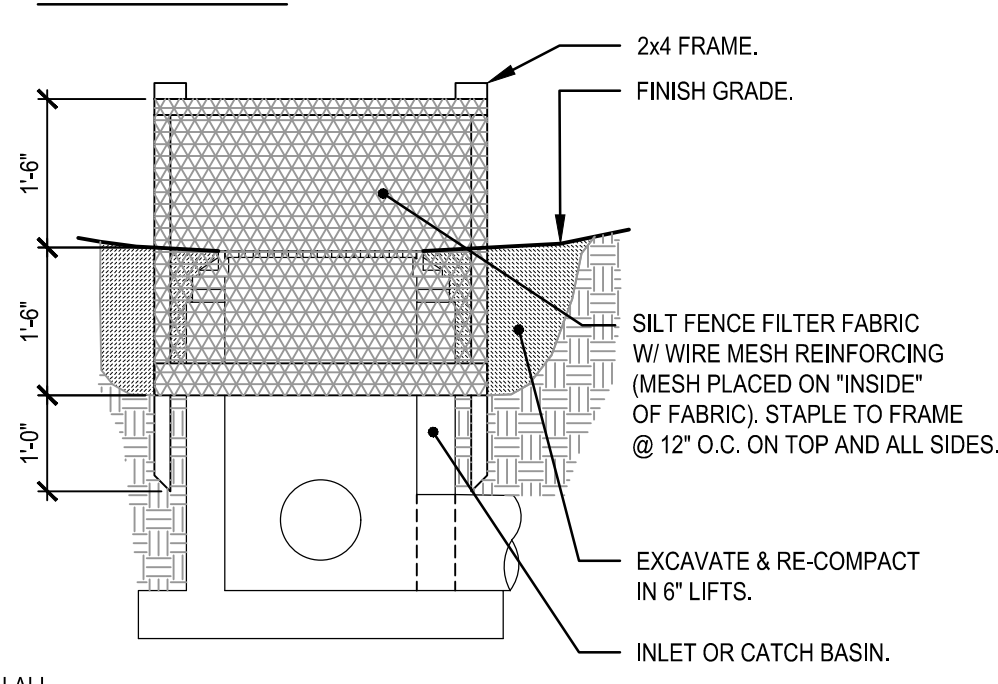
WORK ZONE TRAFFIC CONTROL PLAN

L-100.1

AXONOMETRIC VIEW



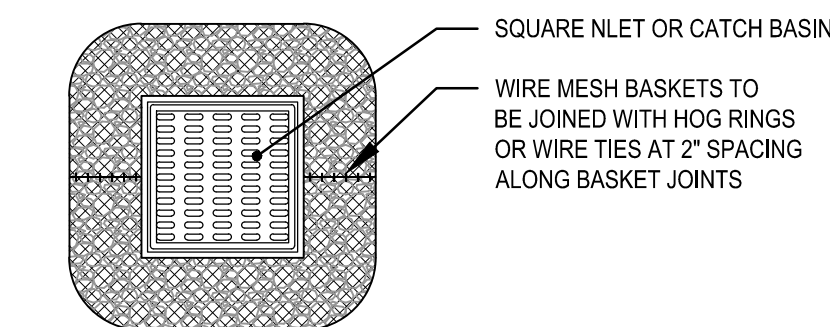
SECTION VIEW



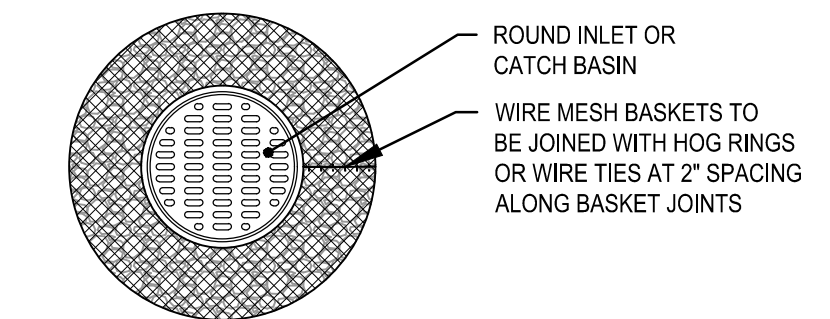
NOTE:
INLET PROTECTION TO BE USED ON ALL EXISTING & NEW GRATED STRUCTURES

D1 INLET PROTECTION
NTS

PLAN VIEW

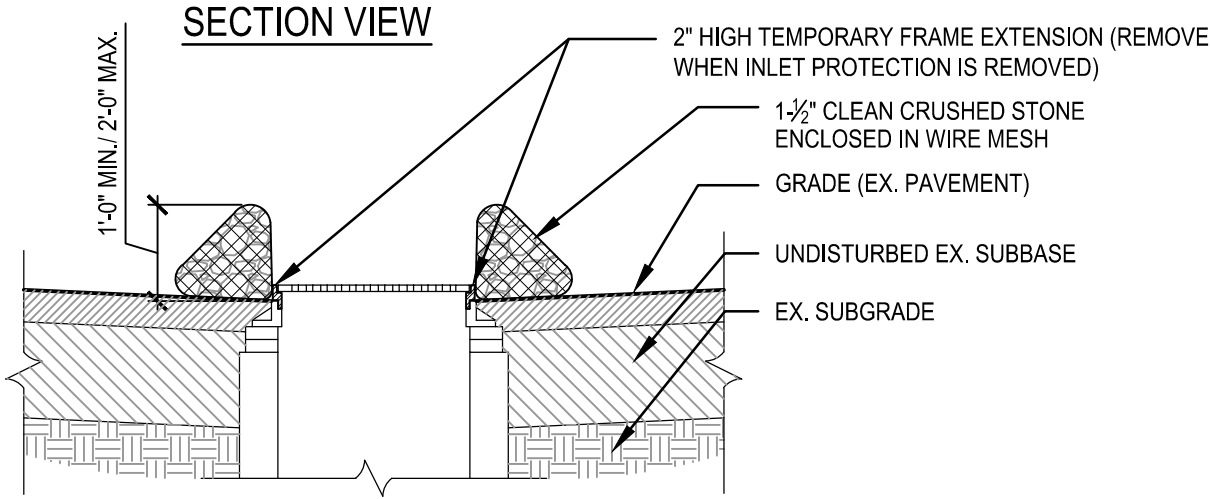


SQUARE STRUCTURE



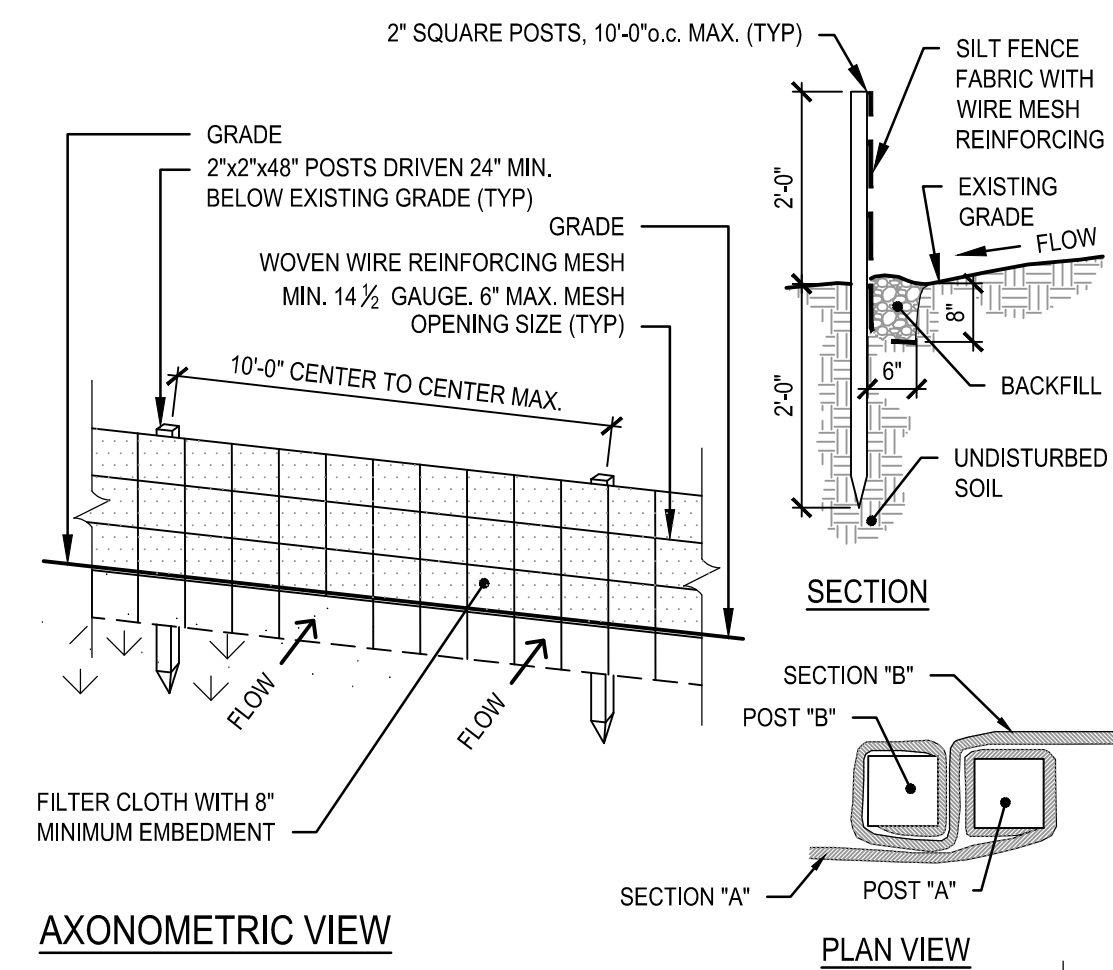
ROUND STRUCTURE

SECTION VIEW



- NOTES:
1. INLET PROTECTION TO BE USED ON ALL EXISTING & NEW GRATED STRUCTURES
 2. WIRE MESH SHALL BE FABRICATED OF 10-GAUGE WIRE TWISTED INTO A MESH WITH MAXIMUM OPENING SIZE OF 1" (COMMONLY REFERRED TO AS "CHICKEN WIRE")
 3. FABRICATE WIRE MESH BASKETS USING CONTINUOUS SHEETS OF MESH & SECURE USING HOG RINGS OR WIRE TIES AT 6" SPACING ALONG ALL JOINTS AND 2" SPACING AT ENDS OF THE BERM
 4. CRUSHED STONE BERMS SHALL BE CONSTRUCTED OF 1-1/2" CLEAN CRUSHED ROCK

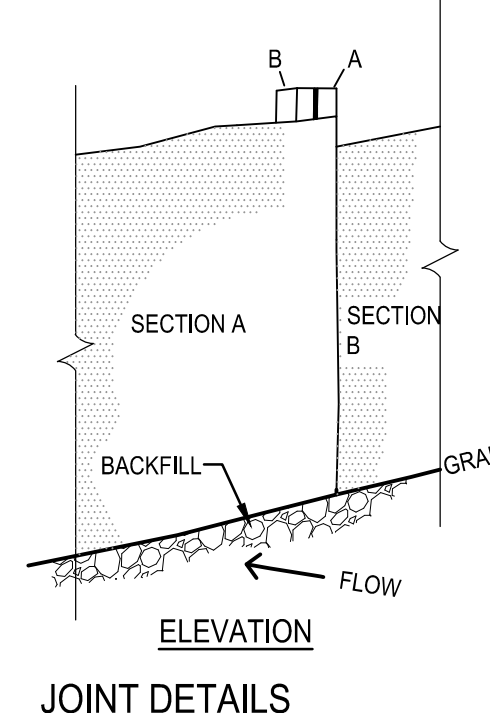
C1 INLET PROTECTION IN PAVEMENT
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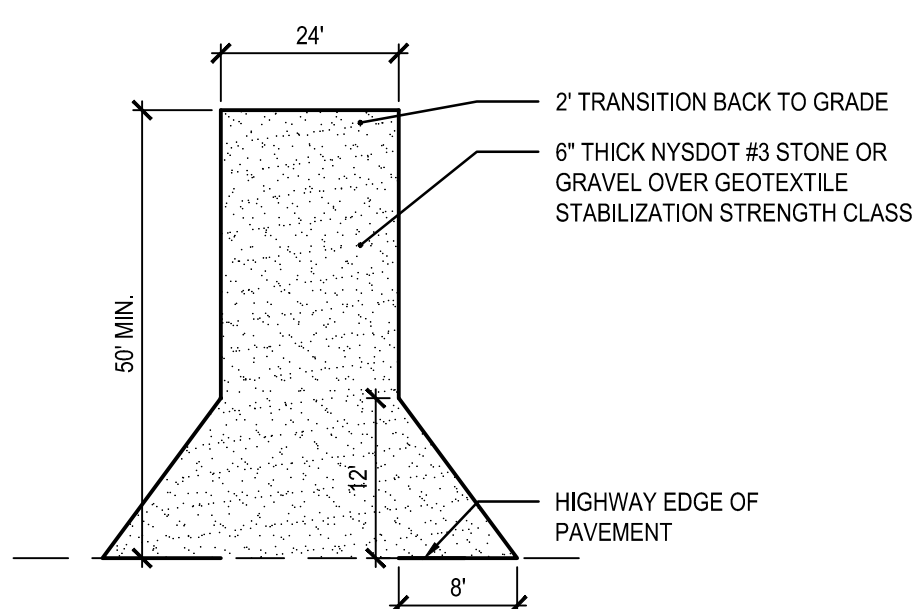
AXONOMETRIC VIEW

SILT FENCE SPECIFICATIONS

1. POSTS: EITHER STEEL "T" OR "U" TYPE OR 2" HARDWOOD.
2. REINFORCING MESH: WOVEN WIRE, 14 1/2 GAUGE WITH 6" MAXIMUM MESH OPENING.
3. FILTER FABRIC: FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUAL, PREFABRICATED UNIT: GEOFAB, ENVIROFENCE, OR APPROVED EQUAL.
4. WOVEN WIRE MESH AND FILTER FABRIC TO BE SECURELY FASTENED TO POSTS USING WIRE TIES OR STAPLES @ 12" O.C.
5. INSPECT DAILY AND REPAIR OR REPLACE DAMAGED SECTIONS AND REMOVE SEDIMENT WHICH HAS ACCUMULATED MORE THAN 12" DEEP.



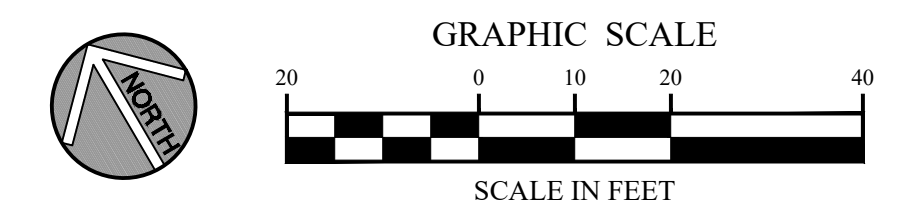
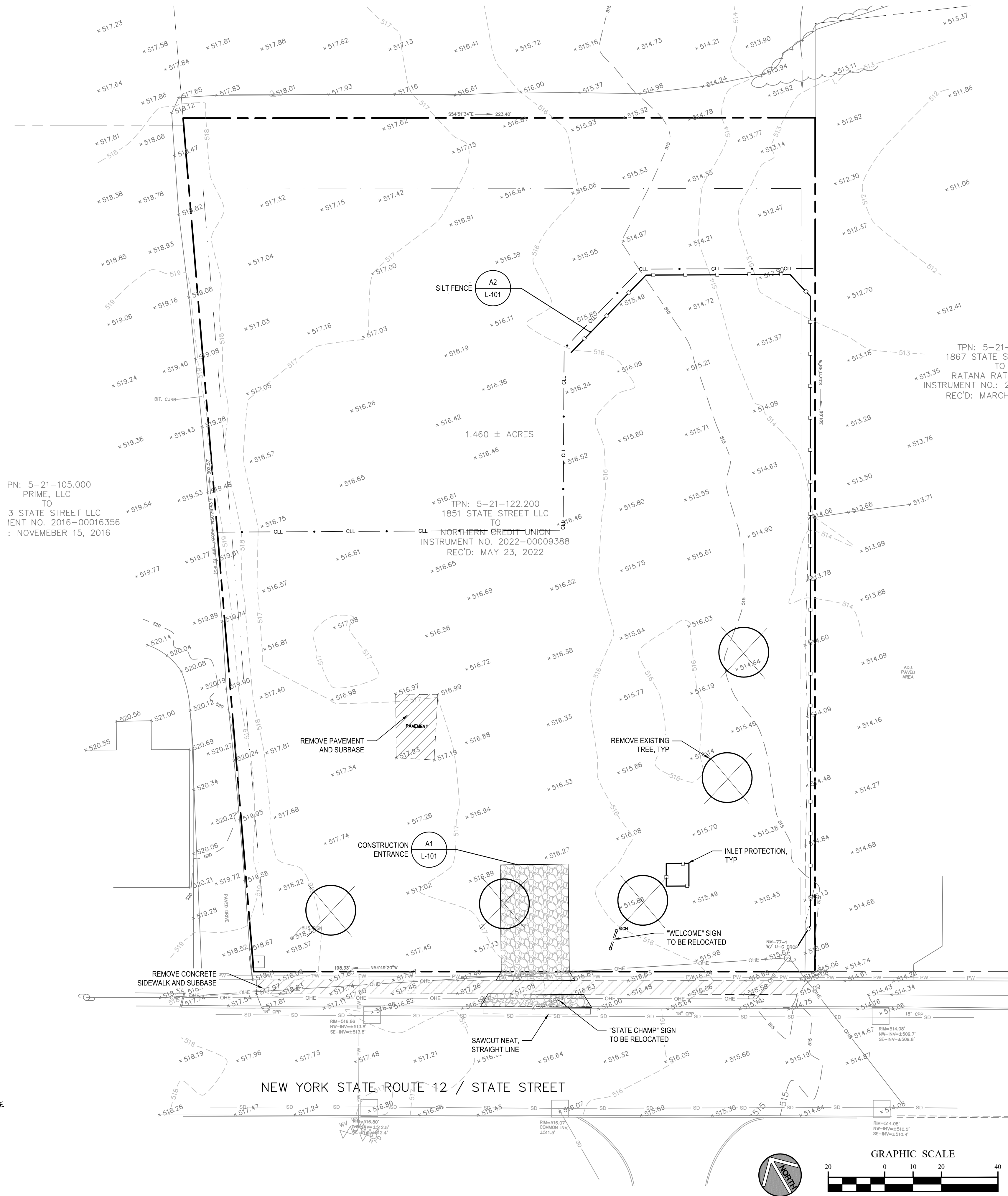
A1 CONSTRUCTION ENTRANCE
NTS



NOTE: TYPICAL LAYOUT SHOWN. CONTRACTOR TO LOCATE ENTRANCE MEETING 50' LENGTH AND 24" FOR SINGLE ENTRANCE. BASED ON CONSTRUCTION OPERATIONS AND SEQUENCING. CONCEPTUAL LAYOUT SHOWN ON PLAN.

A2 SILT FENCE
NTS

A3 DEMOLITION AND EROSION CONTROL PLAN
1" = 20'

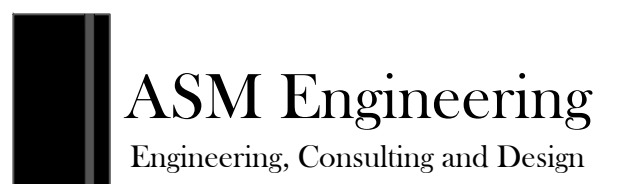


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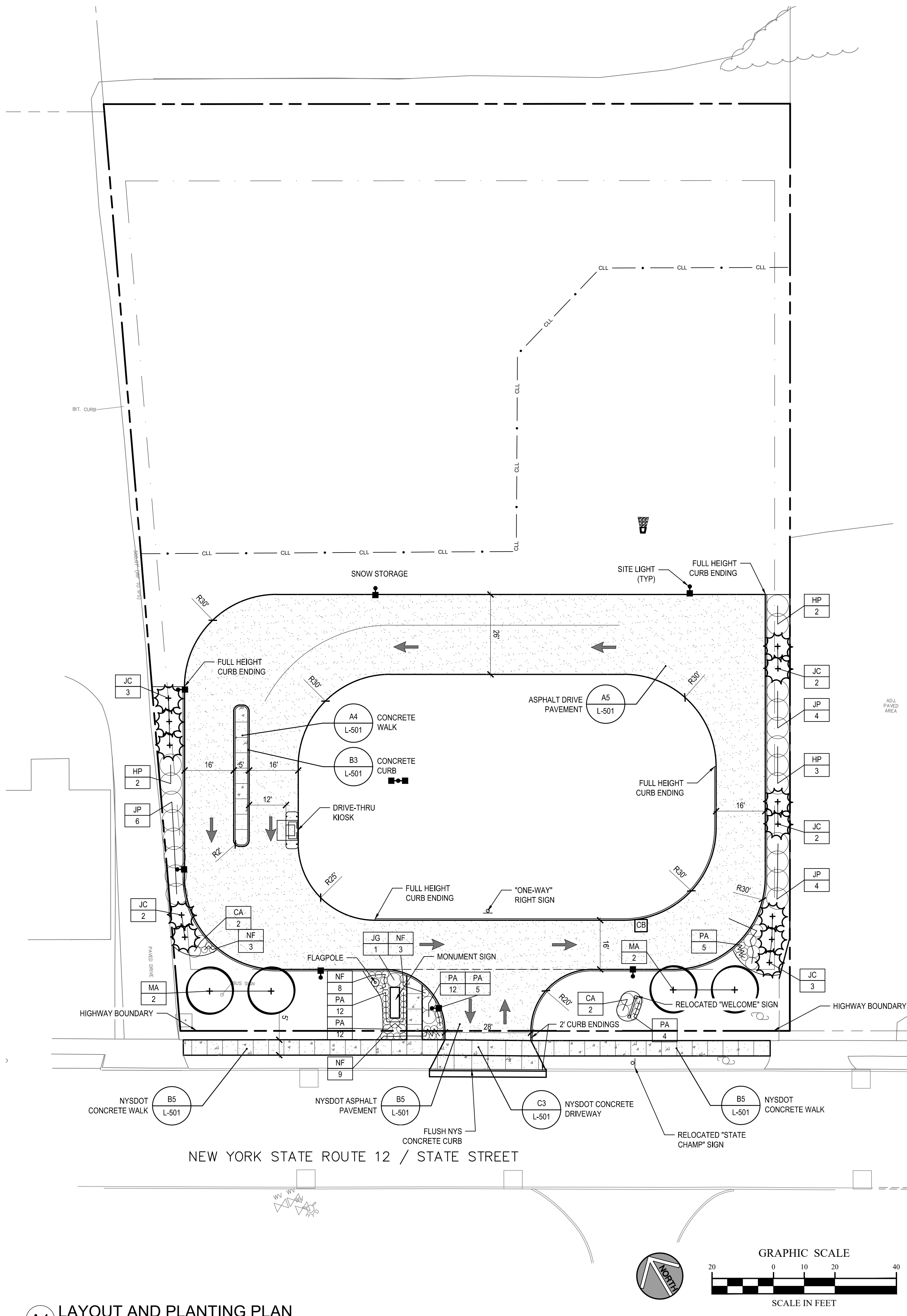


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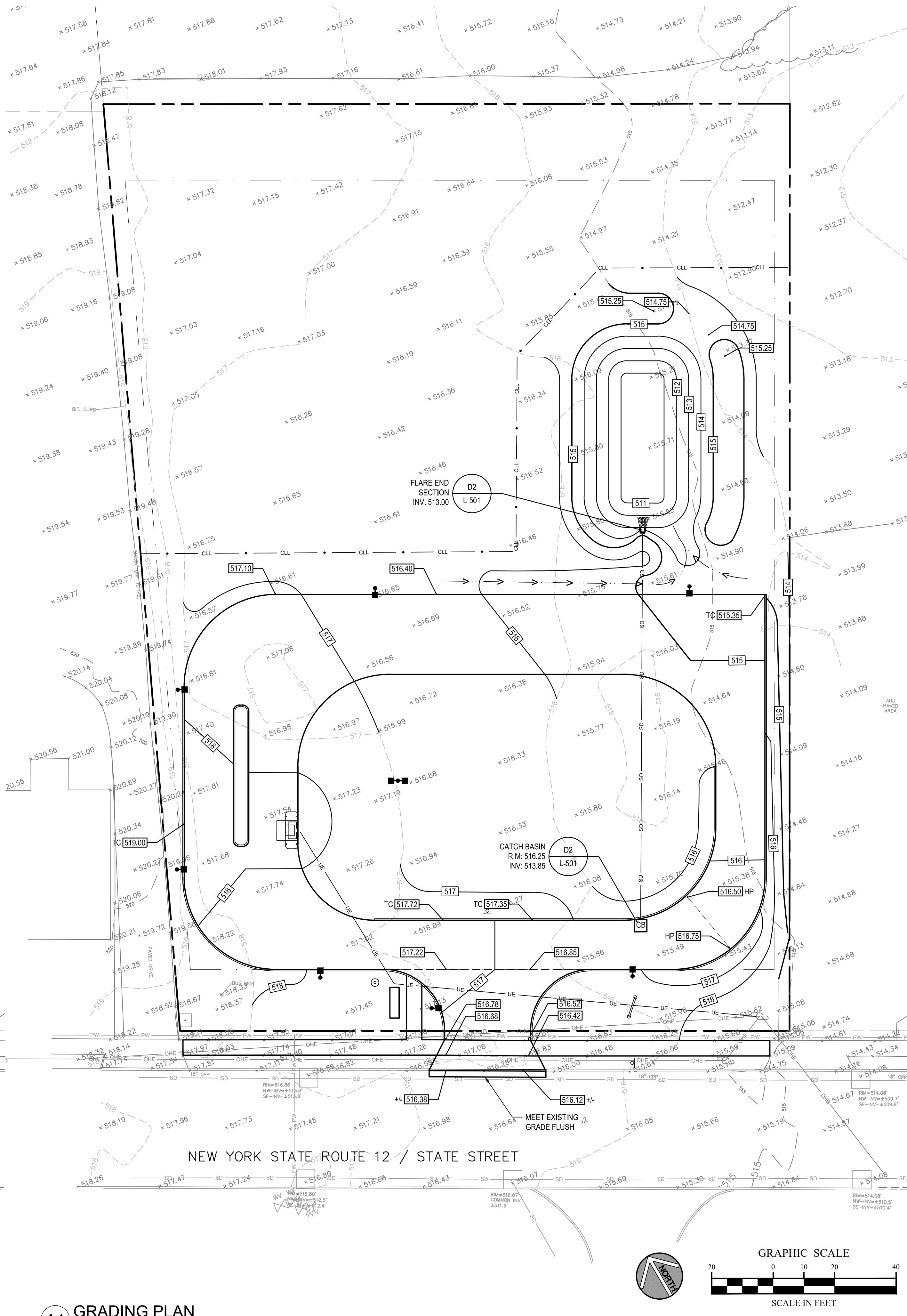
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DEMOLITION AND EROSION CONTROL PLAN

L-101



A1 LAYOUT AND PLANTING PLAN
1" = 20'



A1 GRADING PLAN
1" = 20'



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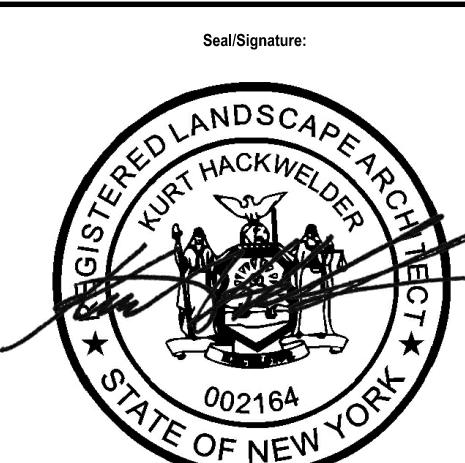
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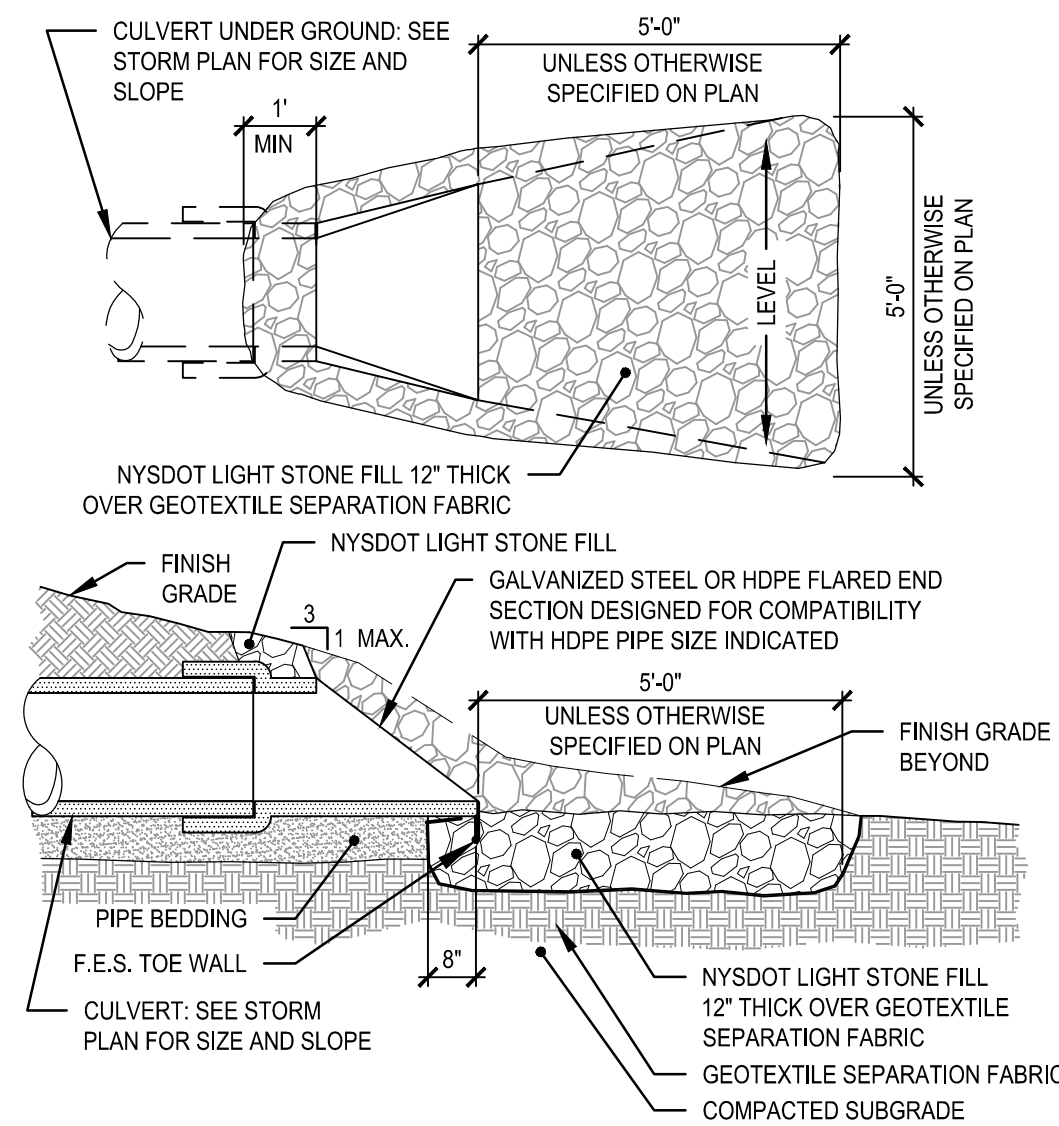
Drawn By:

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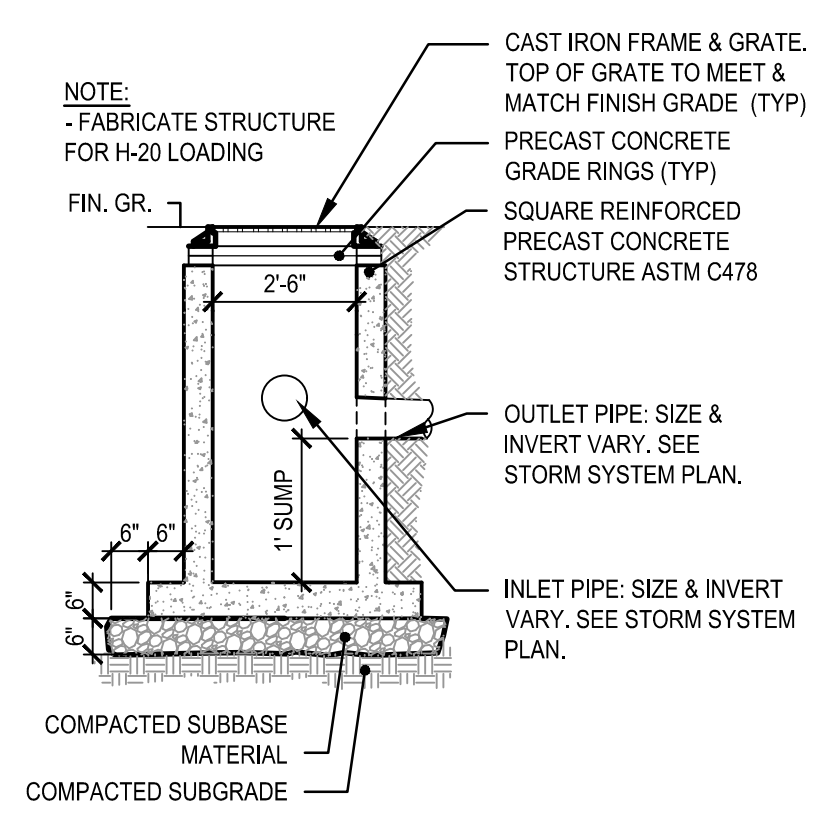
LAYOUT AND
PLANTING PLAN,
GRADING PLAN

L-102

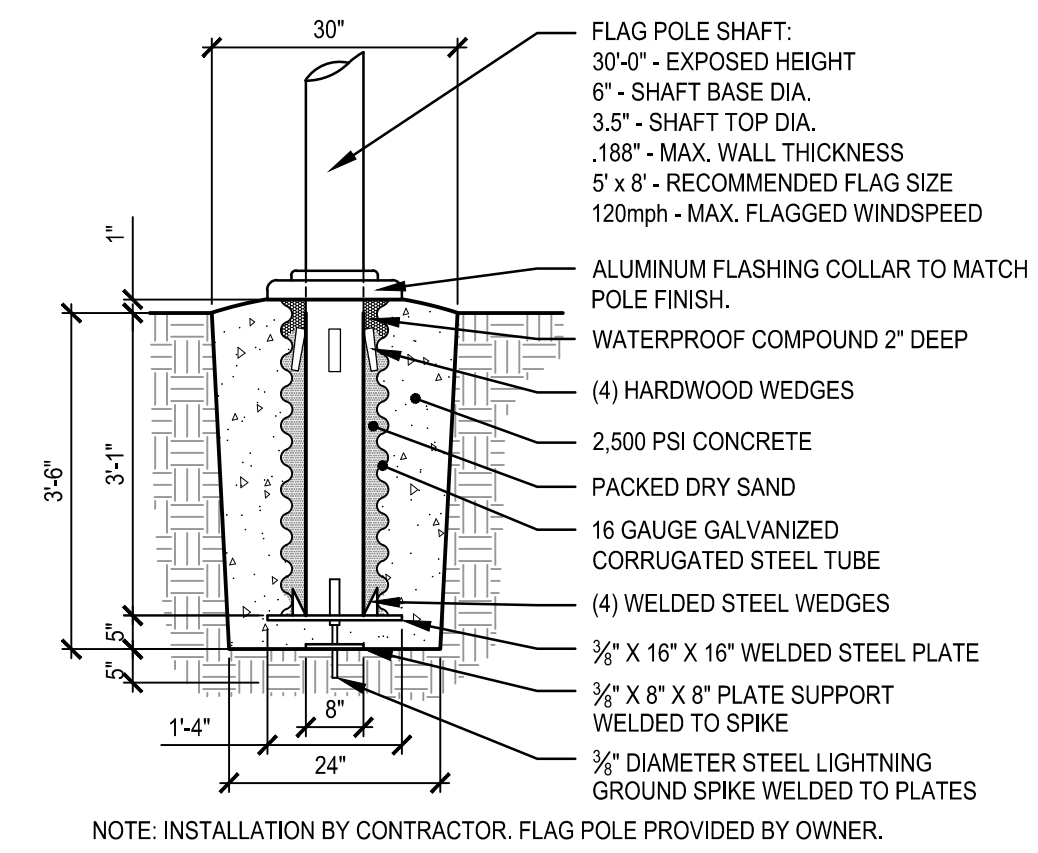
NOTE: ALL WORK PERFORMED WITHIN THE CITY OF WATERTOWN MARGIN WILL REQUIRE SIGN-OFF FROM A PROFESSIONAL ENGINEER, LICENSED AND CURRENTLY REGISTERED TO PRACTICE IN THE STATE OF NEW YORK, THAT THE WORK WAS BUILT ACCORDING TO THE APPROVED SITE PLAN AND APPLICABLE CITY OF WATERTOWN STANDARDS. COMPACTION TESTING WILL BE REQUIRED FOR ALL WORK TO BE PERFORMED WITH THE CITY OF WATERTOWN MARGIN AND MUST BE SUBMITTED TO THE CITY OF WATERTOWN CODES DEPARTMENT."



C2 FES & RIP RAP
NTS



D3 CATCH BASIN
NTS



D5 FLAGPOLE FOOTING
NTS



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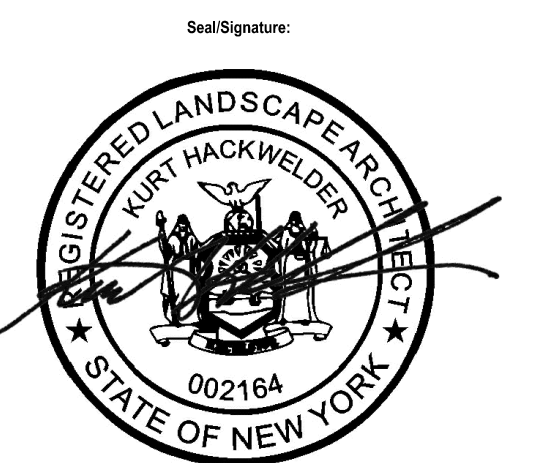
1005 W. Fayette Street, Suite 500
Syracuse, NY 13204
Phone 315.428.1177
Fax 315.428.9822
www.nkbpc.com



6744 Townline Road
Syracuse, NY 13211
Tel: 315.455.2107
Fax: 315.455.7101



DRIVE-THRU
DEVELOPMENT
1851 STATE STREET
WATERTOWN, NY 13601
PHZ Project Number: 22-009



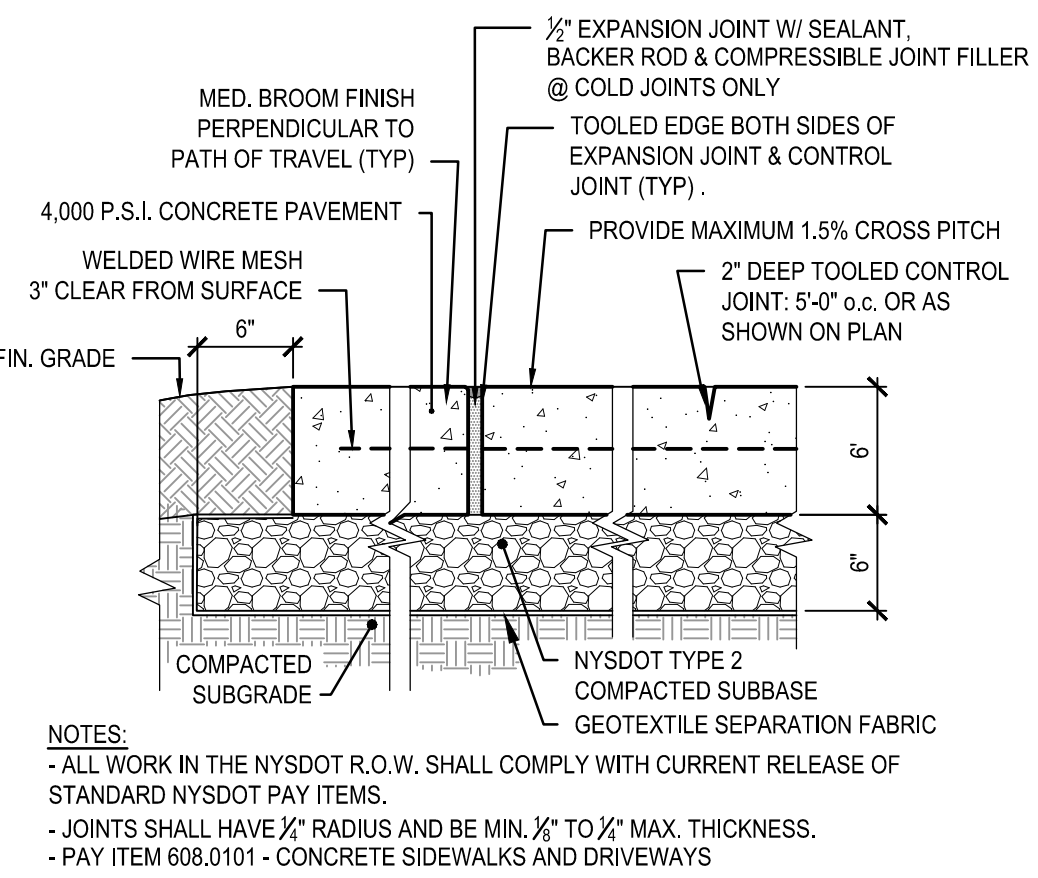
ISSUED AND REVISION NOTIFICATION		
No.	Description	Date

Date Issued:		Drawing Package:	
08/18/22		PLANNING BOARD	
Scale:		Drawn By:	
AS SHOWN		KTH	

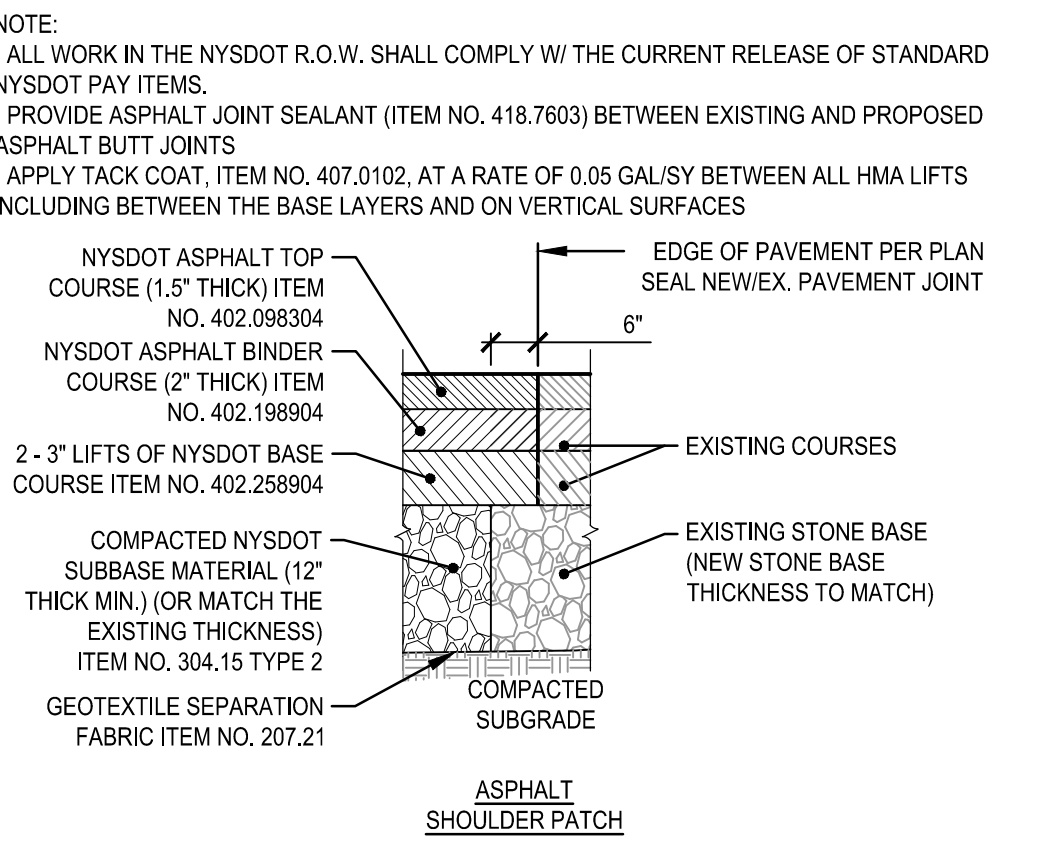
1 - Symbol Indicates Revision Issued

PLANT SCHEDULE					
TREES					
KEY	Botanical Name Common Name	SIZING	SPACING	ROOT	REMARKS
JC	<i>Juniperus chinensis</i> 'Mountbatten' Mountbatten Juniper	6-3\"/>			

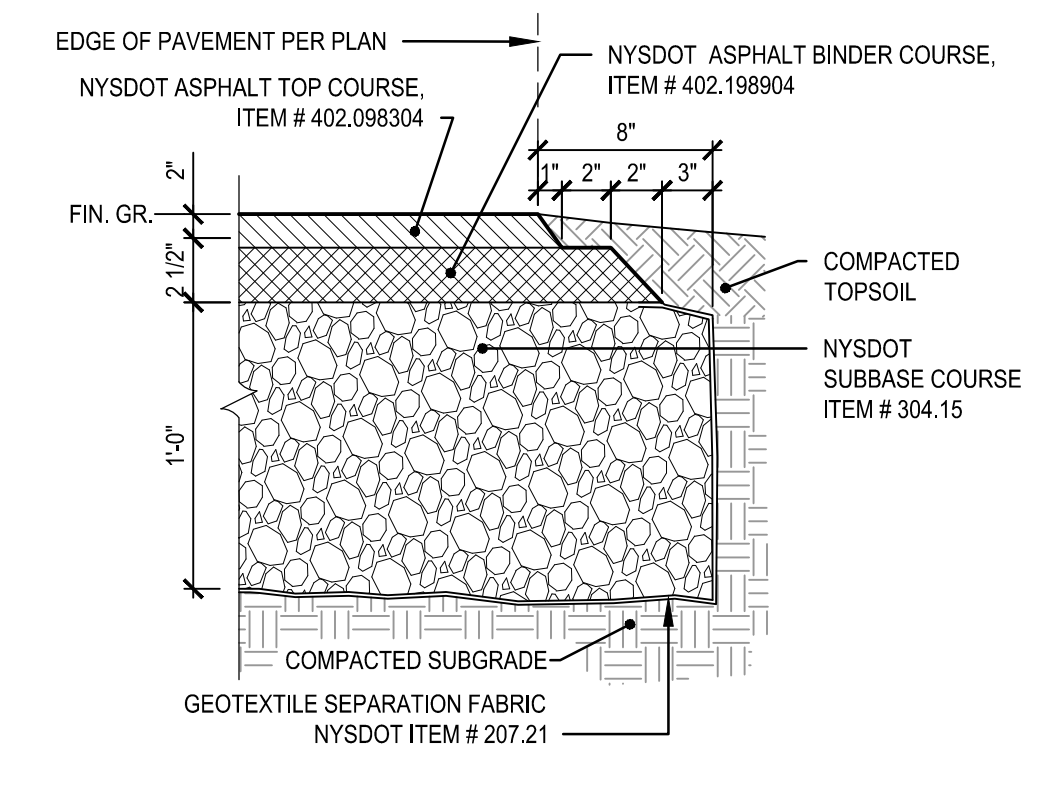
B1 PLANT SCHEDULE
NTS



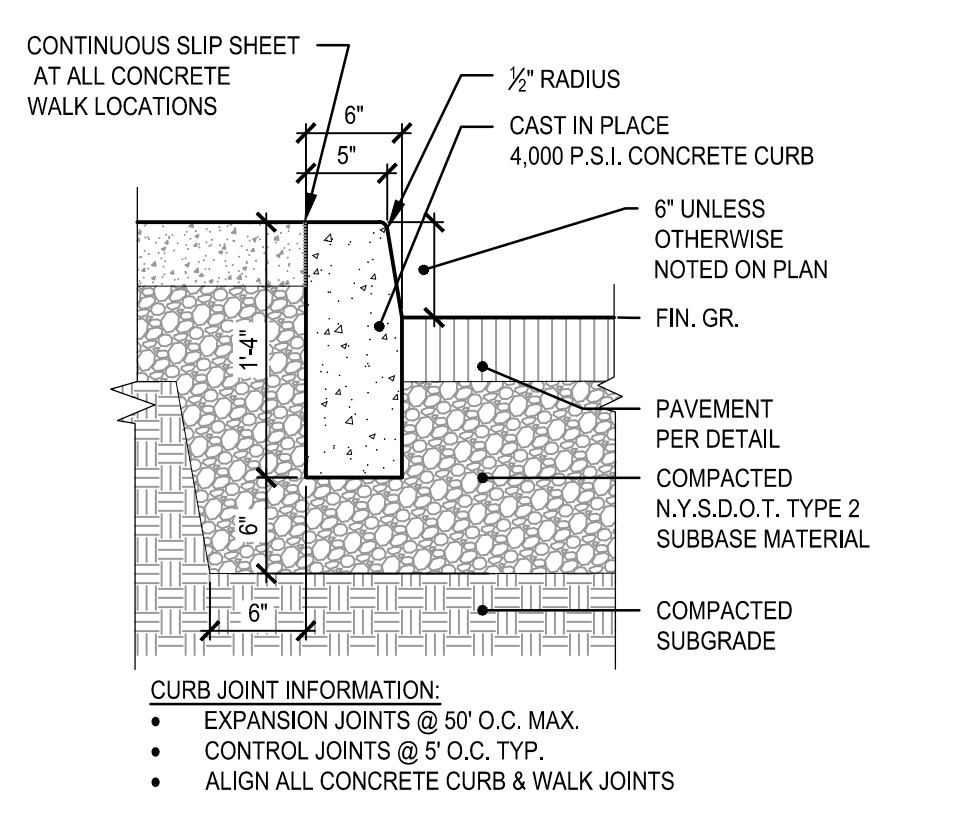
C3 NYSDOT DRIVEWAY
NTS



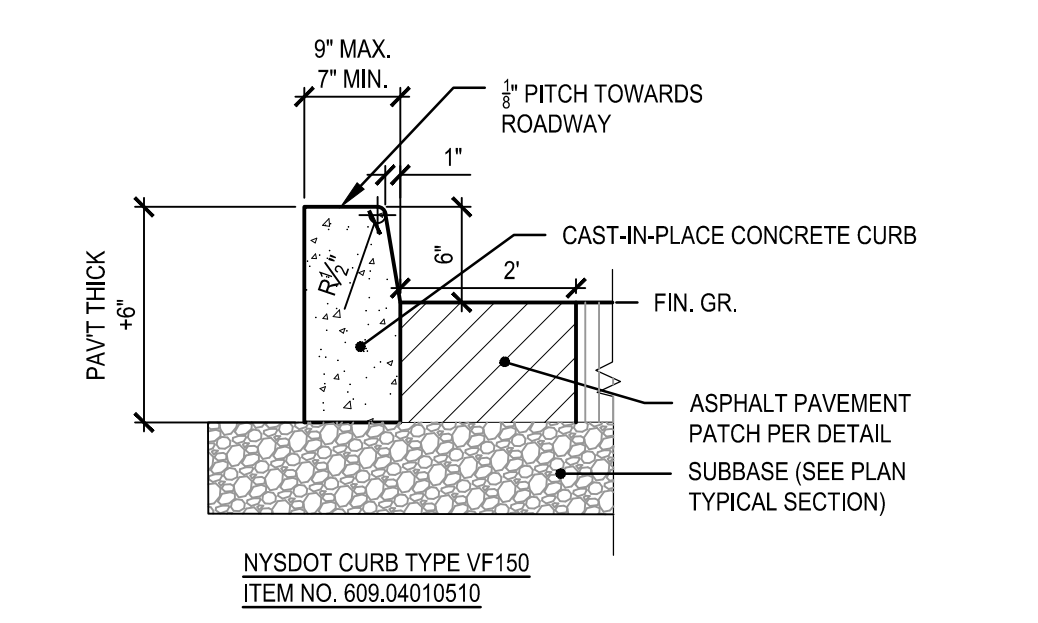
C4 NYSDOT ASPH. SHOULDER PATCH
NTS



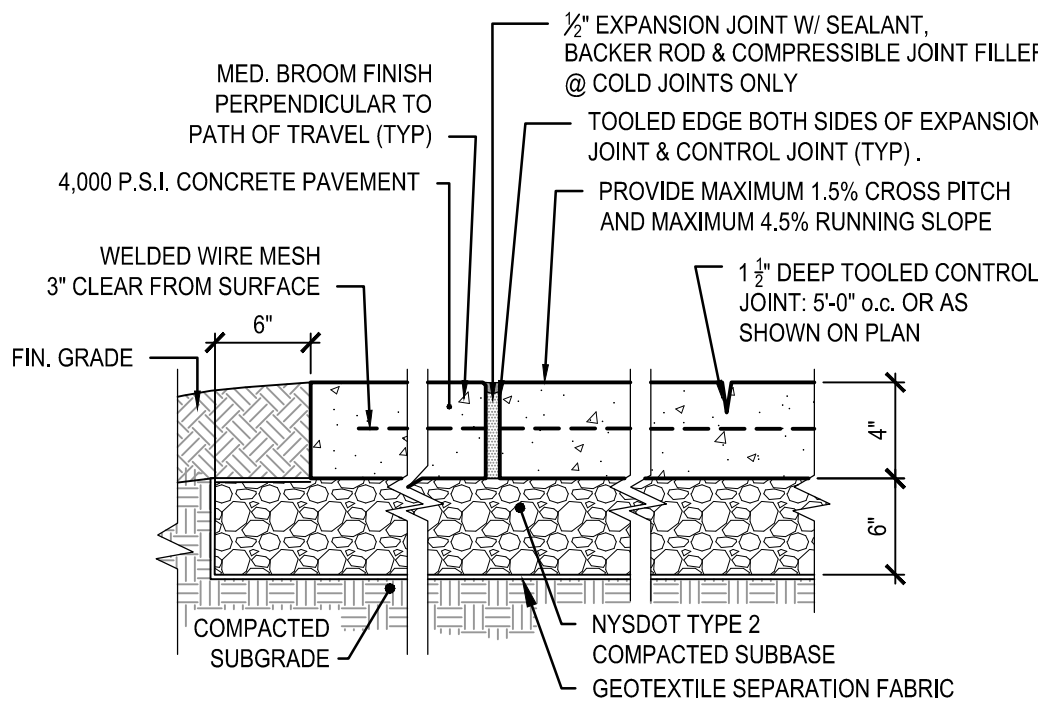
C5 NYSDOT ASPHALT PAVEMENT
NTS



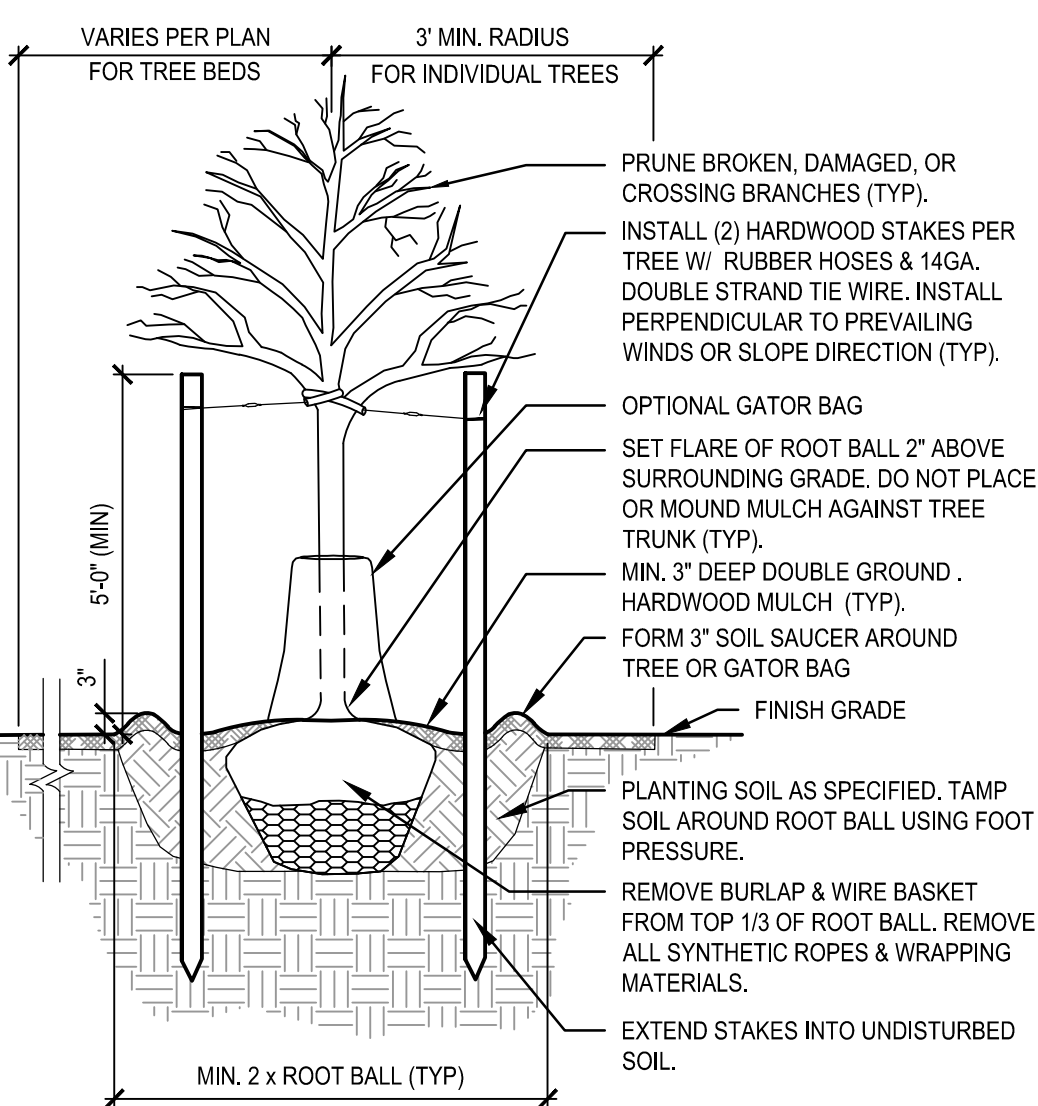
B3 CONCRETE CURB
NTS



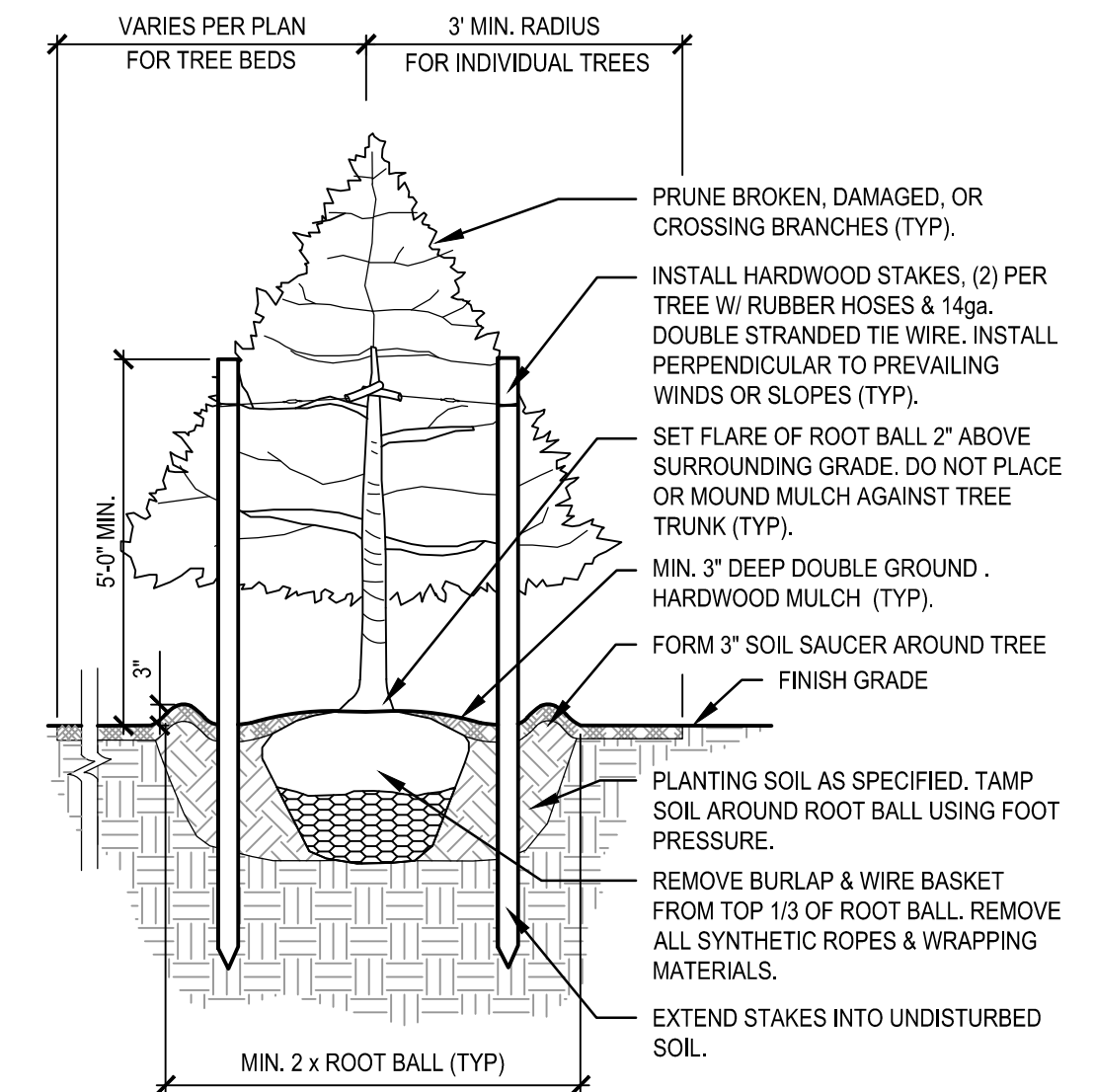
B4 NYSDOT CONCRETE CURB
NTS



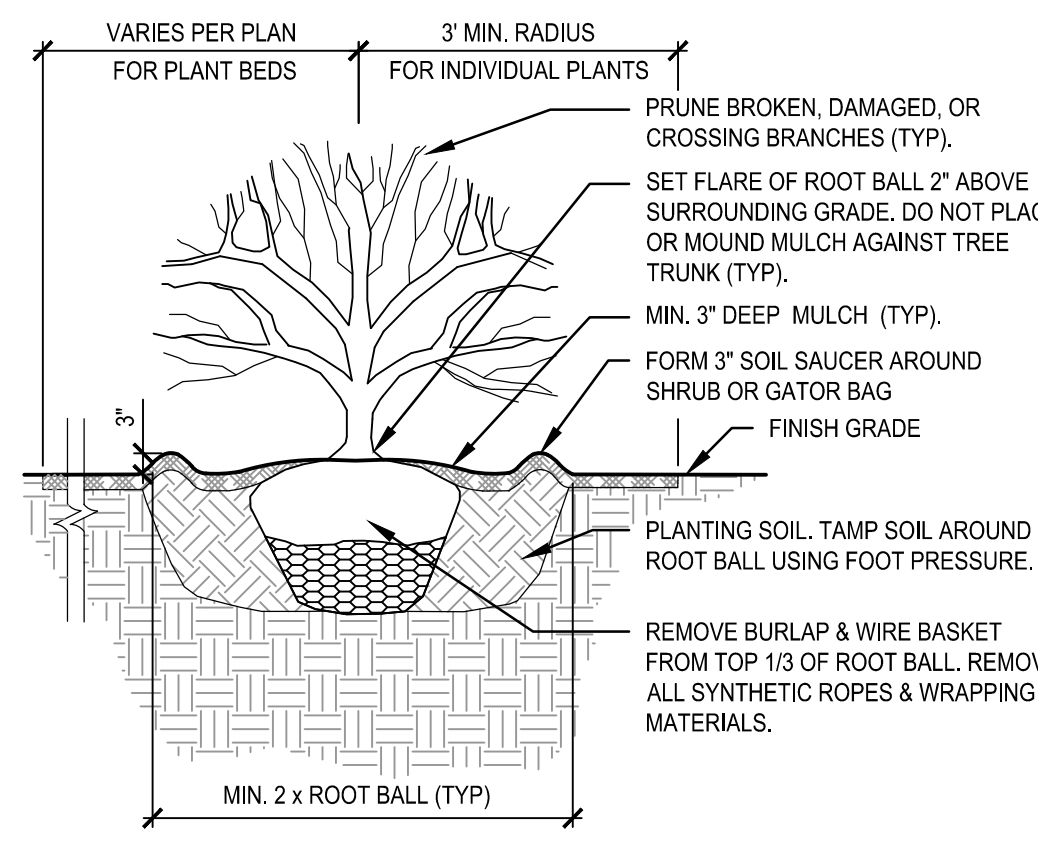
B5 NYSDOT CONCRETE WALK
NTS



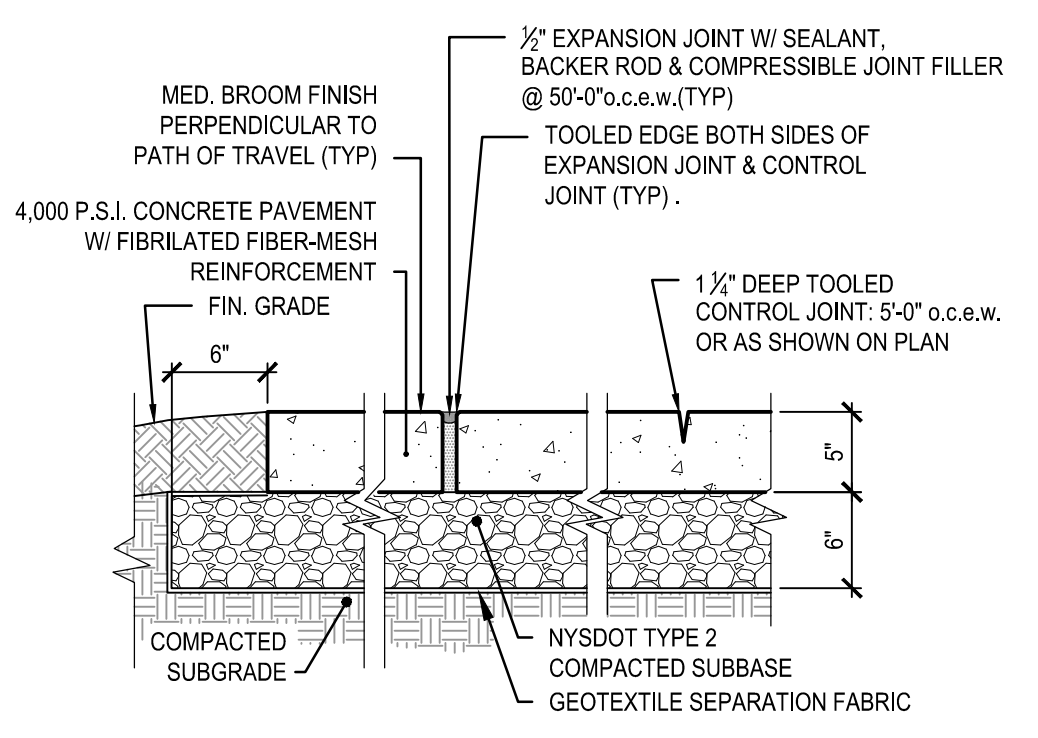
A1 DECIDUOUS TREE PLANTING
NTS



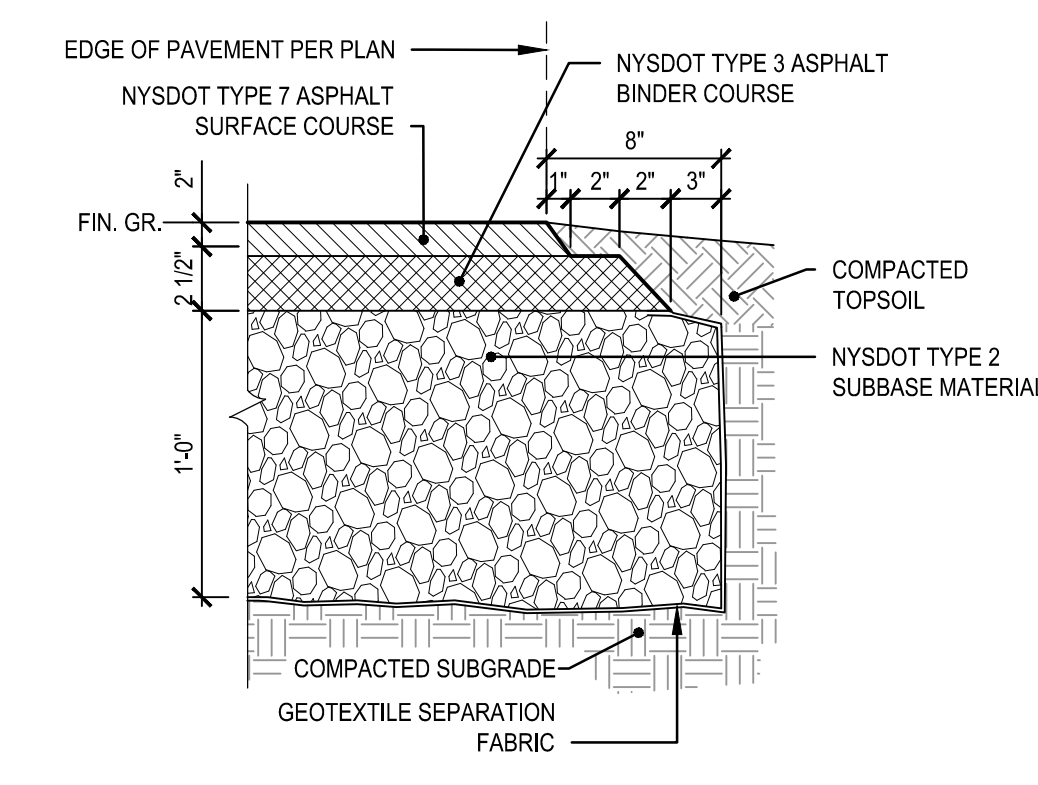
A2 EVERGREEN TREE PLANTING
NTS



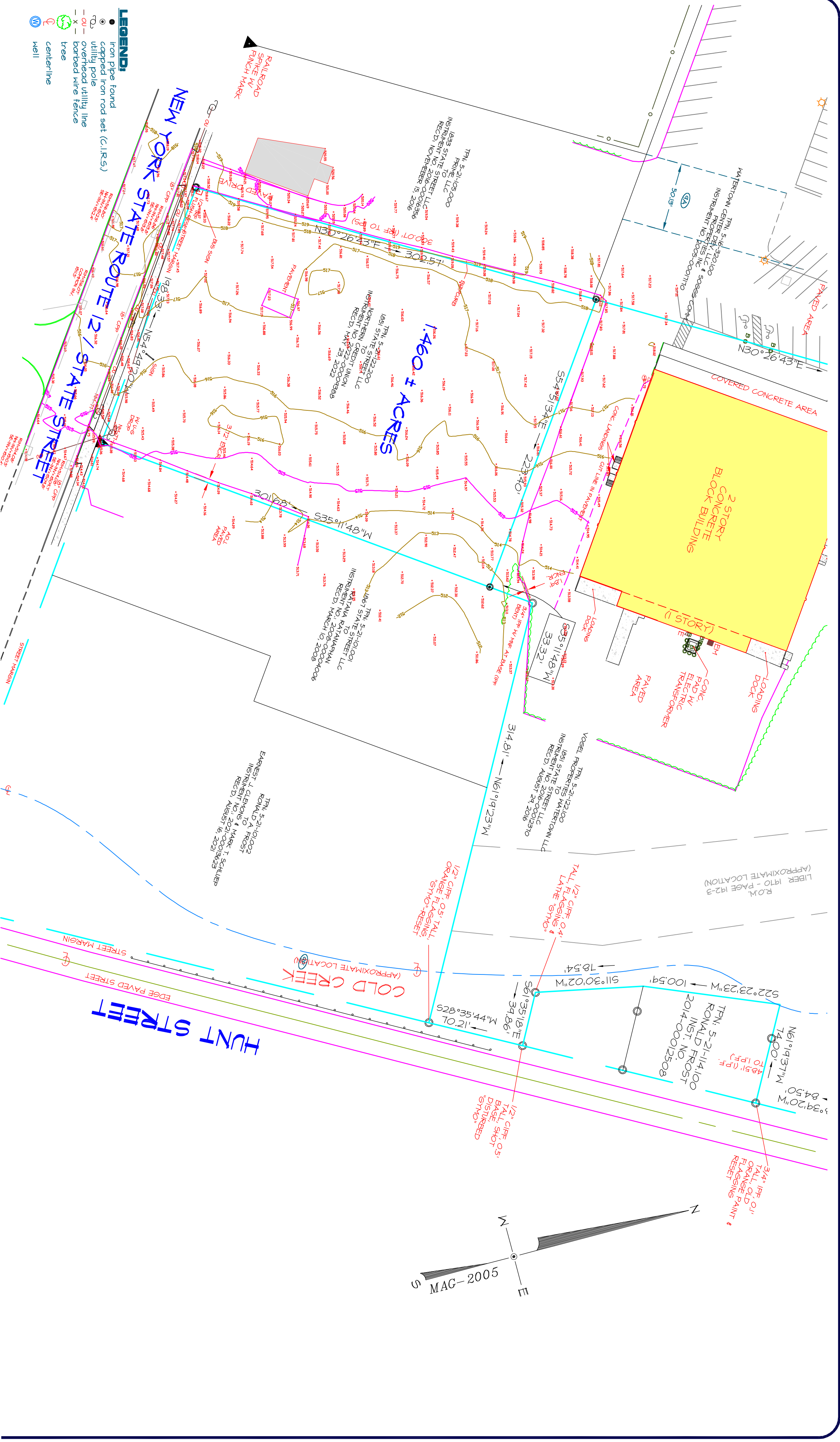
A3 SHRUB PLANTING
NTS



A4 CONCRETE WALK
NTS



A5 ASPHALT DRIVE PAVEMENT
NTS

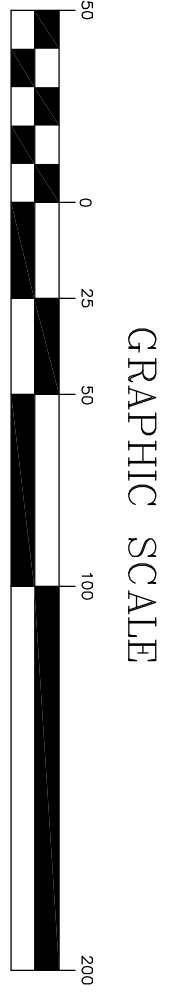


- LEGEND:**
- Iron pipe found
 - capped iron rod set (C.I.R.S.)
 - utility pole
 - OU- overhead utility line
 - X- barbed wire fence
 - tree
 - centerline
 - well

DEED REFERENCE:
 Being that parcel of land conveyed by 1851 State Street LLC to Northern Credit Union by a deed filed at the Jefferson County Clerk's Office as Instrument Number 2022-00004388.

- NOTES:**
- 1) Subject to the rights of the public in State Street.
 - 2) Contours derived from a field survey completed on June 27th, 2022.

ACREAGE:
 Area of the parcel = 1460 Acres
 of land more or less.



**MAP showing the TOPOGRAPHICAL SURVEY of the
 NORTHERN CREDIT UNION Property
 1851 State Street City of Watertown
 Jefferson County, New York State**

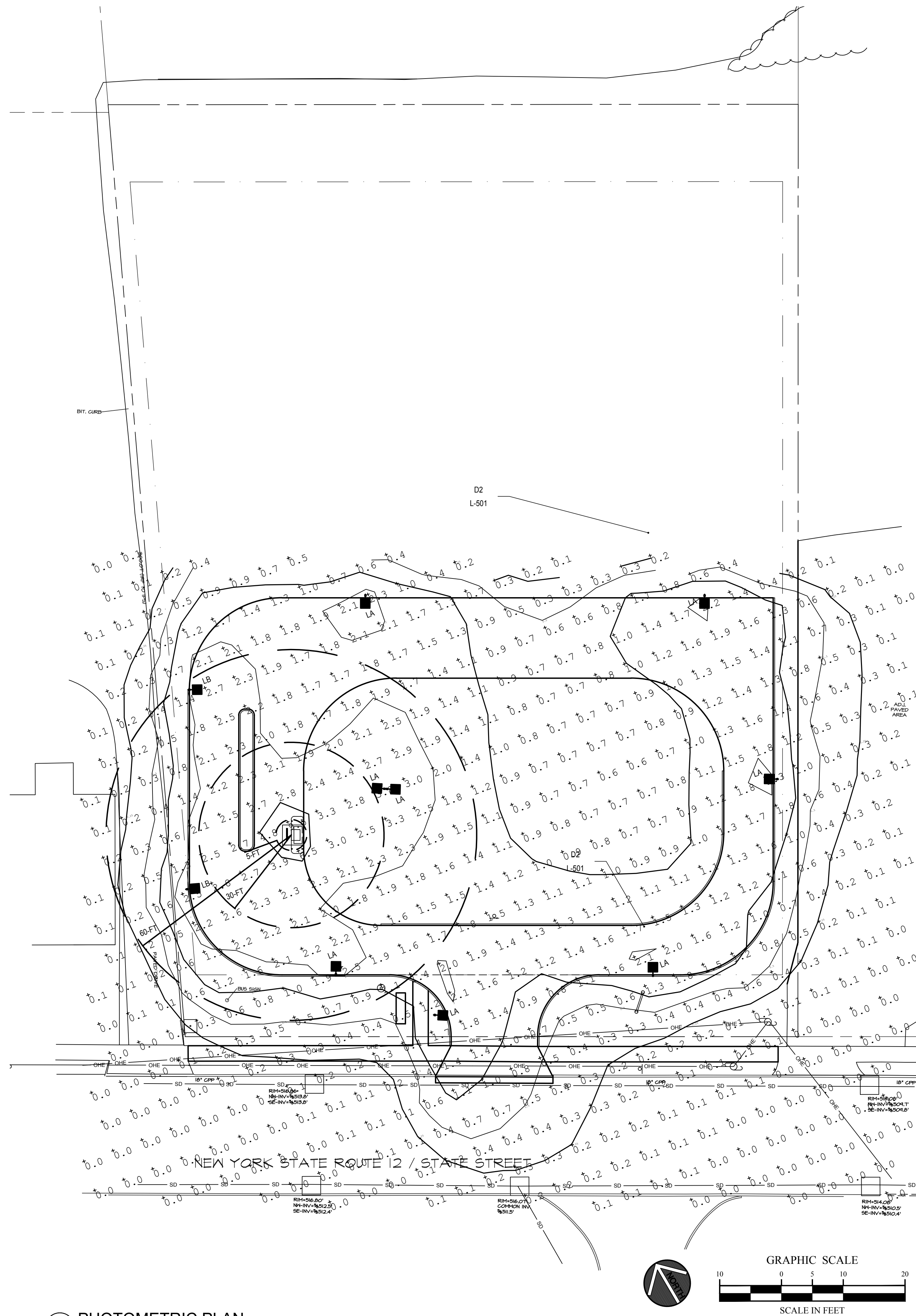
T.P.N. - 5-21-122.200
 Project No. - 22044
 Scale - 1"=50 Feet
 Survey Date - 06/27/22
 Map Date - 07/13/22
 Drawn By - CC
 Print Date - 07/13/22
 Checked By - JDM

Survey Prepared By:

**MONCRIEF & MCLAN
 LAND SURVEYORS, P.C.**
 P.O. Box 1103, Saratoga Lake, NY 12085
 518-583-9376 • 518-583-8444 • NY 19293
www.moncriefandmclean.com

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JOHN D. MCLAN
 P.L.S. No. 050925



L1 PHOTOMETRIC PLAN
11 of 20



5047 Clear Meadow,
Camillus, New York 13031
(315) 558-4321 tel.
www.phzarch.com



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1005 W. Fayette Street, Suite 500
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ASM Engineering
Engineering, Consulting and Design

6744 Townline Road
Syracuse, NY 13211
Tel: 315.455.2107
Fax: 315.455.7101



DRIVE-THRU DEVELOPMENT

1851 STATE STREET
WATERTOWN, NY 13601

PHZ Project Number: 22-009

See Signature

ISSUED AND REVISION NOTIFICATION

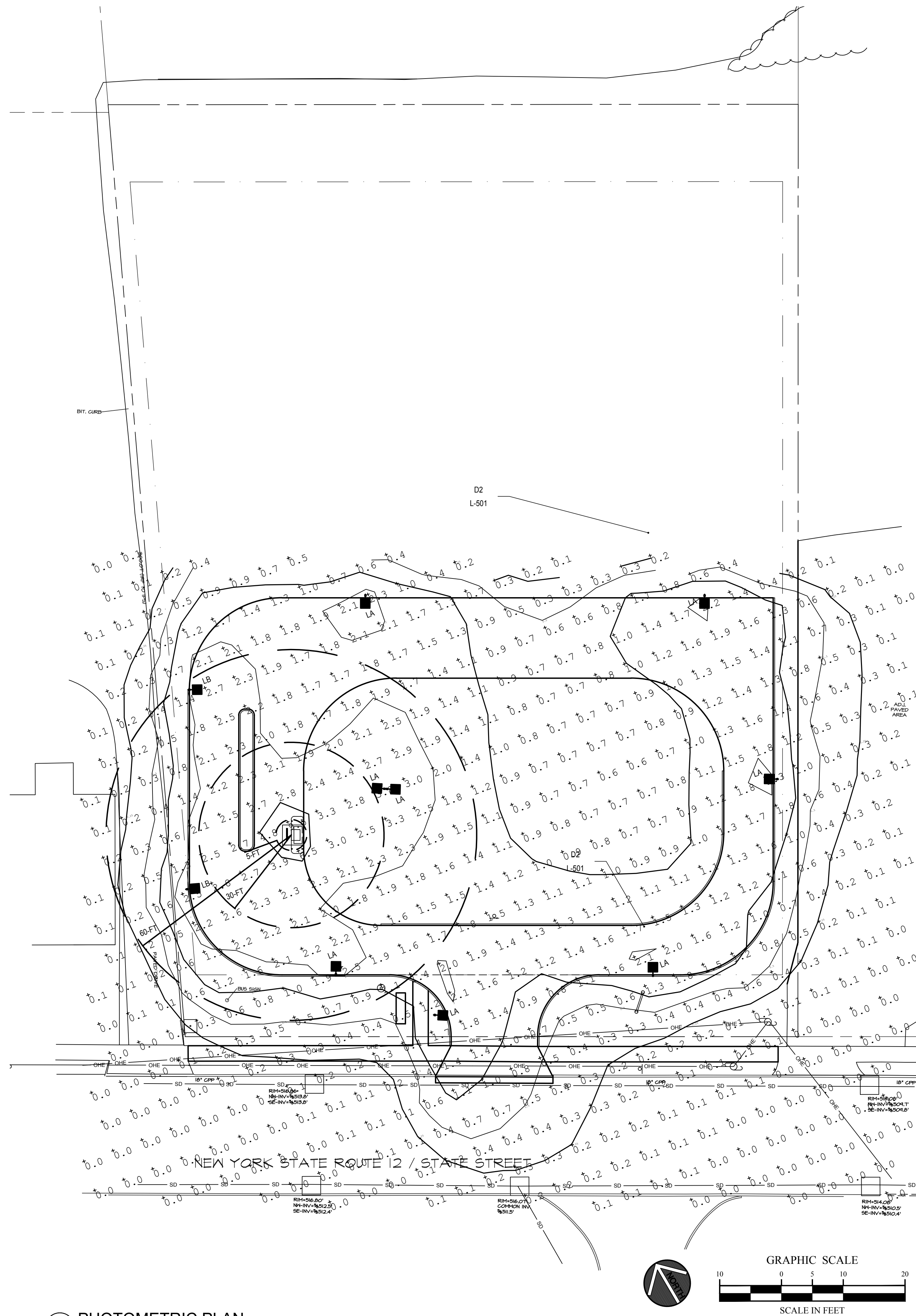
No.	Description	Date

△ - Symbol Indicates Revision Issued

Date Issued: 08/16/22	Drawing Package: PLANNING BOARD
Scale: AS SHOWN	Drawn By: MDP

SITE LIGHTING
PHOTOMETRIC PLAN

LC-100



L1 PHOTOMETRIC PLAN
11 of 20



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Camillus, New York 13031
(315) 558-4321 tel.
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DRIVE-THRU DEVELOPMENT

1851 STATE STREET
WATERTOWN, NY 13601

PHZ Project Number: 22-009

See Signature

ISSUED AND REVISION NOTIFICATION

No.	Description	Date

△ - Symbol Indicates Revision Issued

Date Issued: 08/16/22	Drawing Package: PLANNING BOARD
Scale: AS SHOWN	Drawn By: MDP

SITE LIGHTING
PHOTOMETRIC PLAN

LC-100

Northern Credit Union
Watertown, NY
25376GRXIA.CDR
03/24/22

OPTION 1A

H3904C KIOSK w/ NCR 6688i

Options Shown:

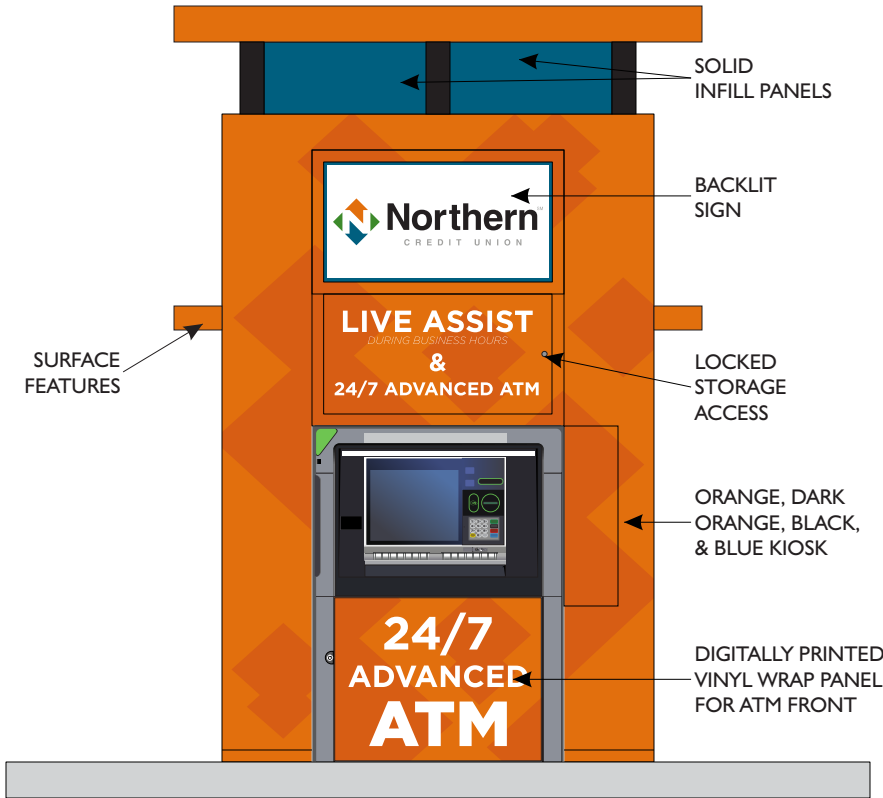
- Environmental Storage
- Custom Canopy
- Vinyl Wrap Panel for ATM Front

APPROVED: Dorothy Wolff

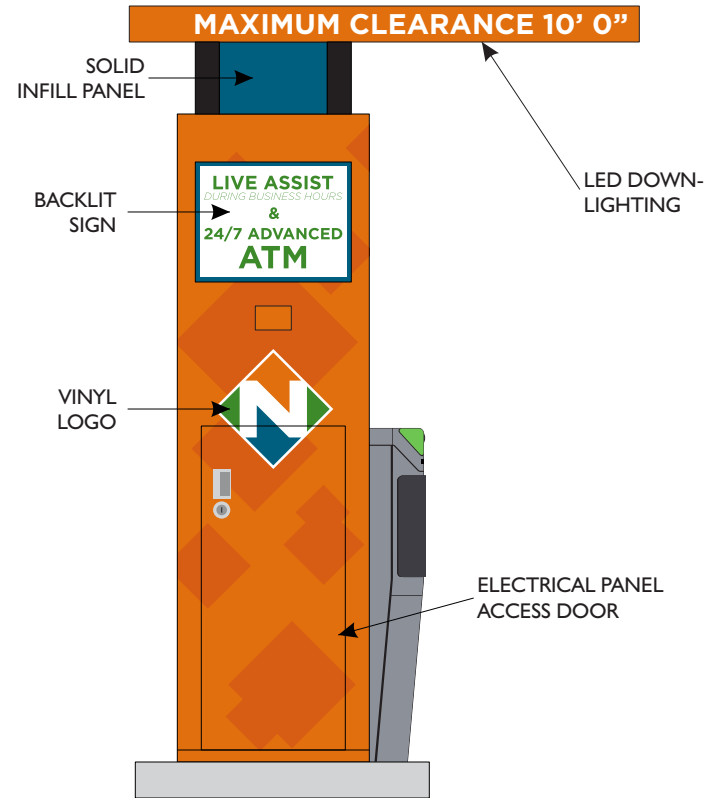
DATE: 4-7-2022

Kiosk Color(s): Black, Blue (PMS 308), Orange (PMS 158),
Dark Orange (PMS 159)

Sign Color(s): Black, Blue (PMS 308), Orange (PMS 158),
Green (PMS 363), Gray (Cool Gray 7)



FRONT ELEVATION



APPROACH ELEVATION

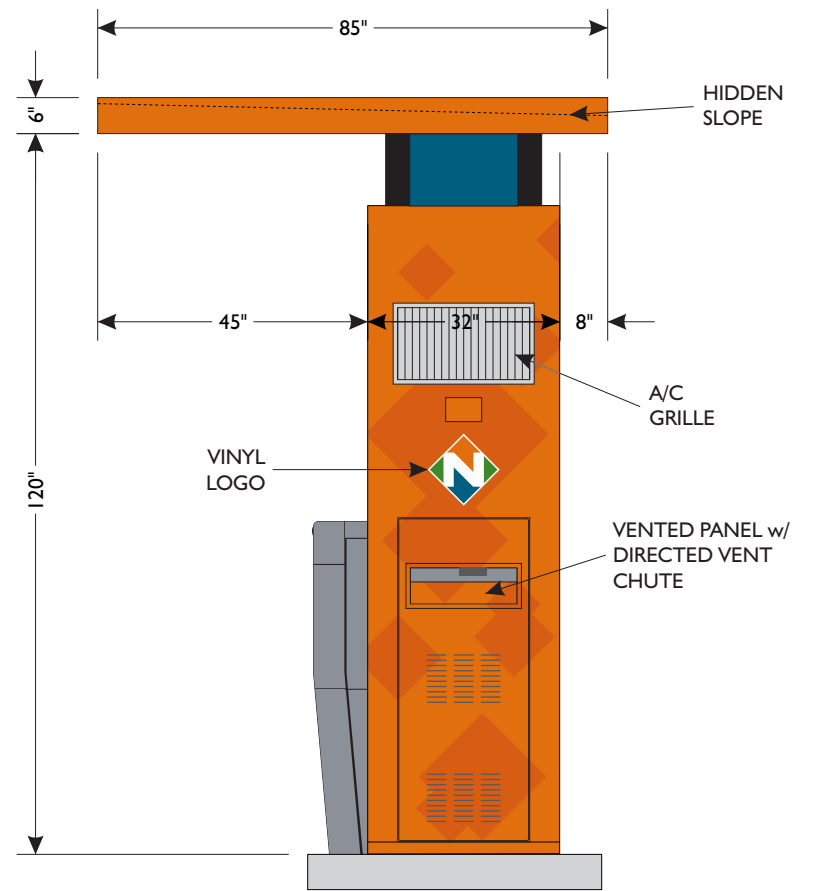


10208 'L' Street
Omaha, NE 68127
Phone: (402) 592-0600
Fax: (402) 592-3572
www.tmsdesign.com





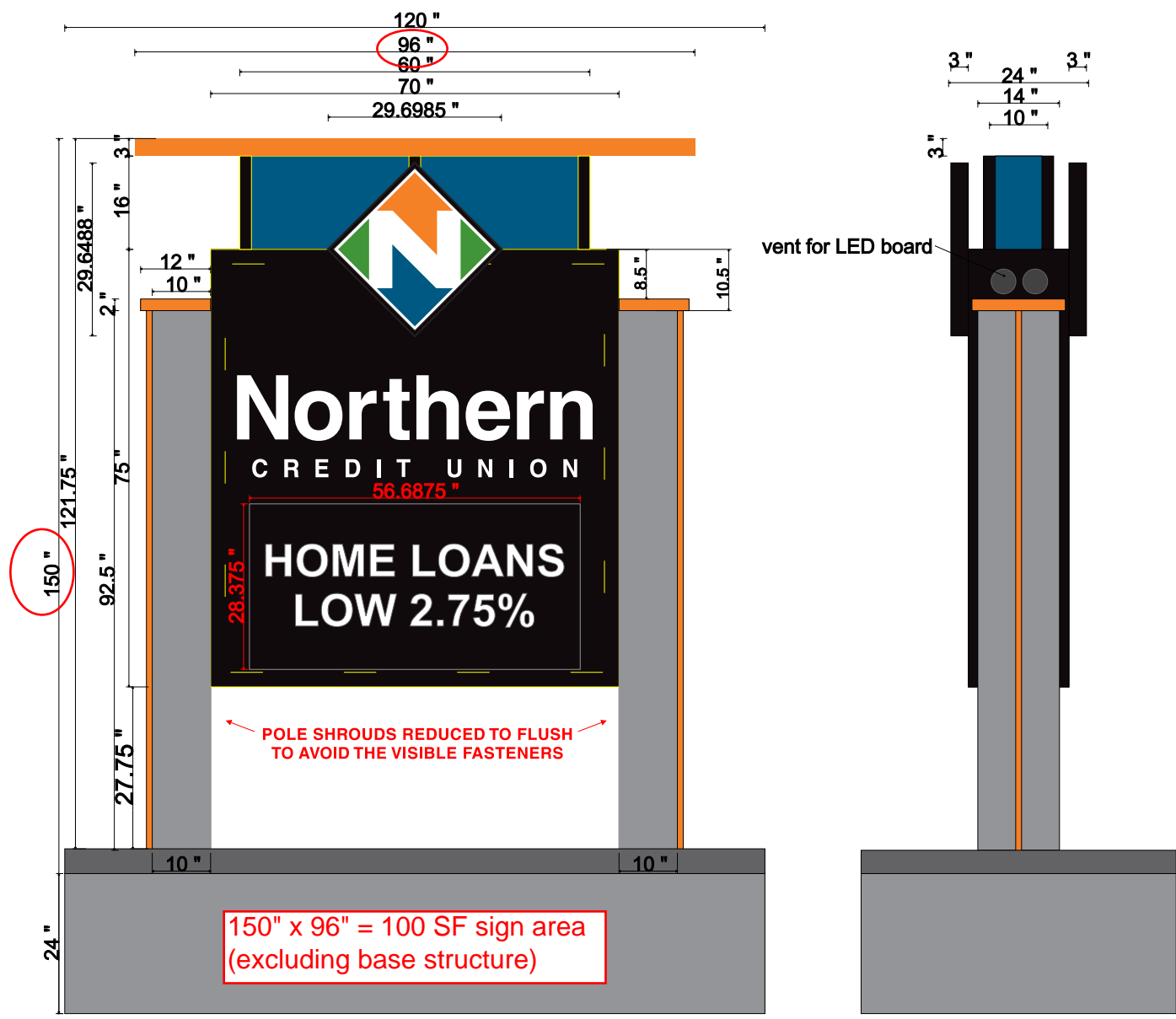
BACK ELEVATION








EXIT ELEVATION

Monument Sign

NEW CONSTRUCTION READY DRAWING



	Spot: Pantone 158 CMYK: 0, 61, 97, 0 RGB: 245, 128, 37 HEX: f58025
	Spot: Pantone 308 CMYK: 100, 17, 0, 51 RGB: 0, 90, 132 HEX: 005a84
	Spot: Pantone 363 CMYK: 68, 0, 100, 24 RGB: 67, 150, 57 HEX: 439639
	Spot: Pantone Black CMYK: 60, 50, 50, 100 RGB: 0, 0, 0 HEX: 000000
	Spot: Pantone Cool Gray 7 CMYK: 0, 0, 0, 50 RGB: 147, 149, 152 HEX: 939598

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PROJECT: NCU - Massena	PROJECT MGR. Chris Carr	DATE 9/23/2021
By signing this rendering, you are verifying that, unless <i>clearly</i> noted, all spelling, colors and other details are correct. Any changes made after the approval of this rendering are subject to a fee. Work will not begin until this document is signed and dated.		
<input type="checkbox"/> Approved - No Changes		
<input type="checkbox"/> Approved - Changes Noted		
<input type="checkbox"/> Revise and Re-submit	SIGNATURE _____	DATE _____

Project		Catalog #		Type	
Prepared by		Notes		Date	



McGraw-Edison

GPC Galleon Pedestrian Companion

Area / Site Luminaire

Product Features



Product Certifications



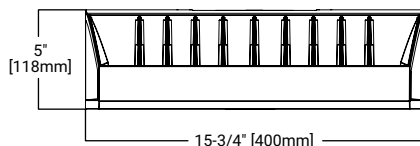
Interactive Menu

- Ordering Information [page 2](#)
- Product Specifications [page 2](#)
- Optical Configurations [page 3](#)
- Energy and Performance Data [page 4](#)
- Control Options [page 6](#)

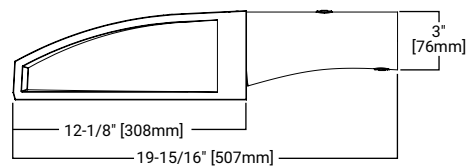
Quick Facts

- Choice of sixteen high-efficiency, patented AccuLED Optics
- Quick mount pole or mast-arm mounting configurations
- Eight lumen packages from 3,215 up to 17,056 lumens
- IP66 rated housing and LED light squares

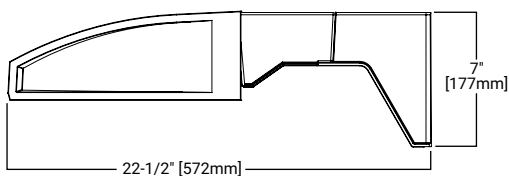
Dimensional Details



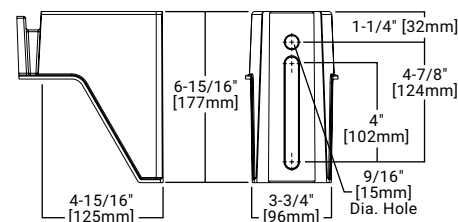
Mast Arm Mount



Quick Mount Arm



Quick Mount Arm (Pole Mounting Details)



EPA

Effective Projected Area (Sq. Ft.)	
Quick Mount Arm	0.73
Mast Arm	0.62

Weight

Approximate Net Weight
27 lbs. (12.2 kgs.)

NOTES:

1. Visit <https://www.designlights.org/search/> to confirm qualification. Not all product variations are DLC qualified.
2. IDA Certified for 3000K CCT and warmer only.

Ordering Information

SAMPLE NUMBER: GPC-SA2C-740-U-T4FT-GM

Product Family	Light Engine		Color Temperature	Voltage	Distribution	Mounting Options	Finish
	Configuration	Drive Current					
GPC =Galleon Pedestrian Companion BAA-GPC =Galleon Pedestrian Companion, Buy American Act Compliant ³⁴ TAA-GPC =Galleon Pedestrian Companion, Trade Agreements Act Compliant ³⁴	SA1 =1 Square SA2 =2 Squares ²	A =615mA B =800mA C =1000mA D =1200mA ⁴	722 =70CRI, 2200K 727 =70CRI, 2700K 730 =70CRI, 3000K 735 =70CRI, 3500K 740 =70CRI, 4000K 750 =70CRI, 5000K 760 =70CRI, 6000K 827 =80CRI, 2700K 830 =80CRI, 3000K AMB =Amber, 590nm ^{3,4}	U =120-277V 1=120V 2=208V 3=240V 4=277V 8=480V ^{6,7} 9=347V ⁶ DV =277-480V DuraVolt Drivers ^{7,8,36}	T2 =Type II T2R =Type II Roadway T3 =Type III T3R =Type III Roadway T4FT =Type IV Forward Throw T4W =Type IV Wide SL2 =Type II w/Spill Control SL3 =Type III w/Spill Control SL4 =Type IV w/Spill Control SL =90° Spill Light Eliminator Left SLR =90° Spill Light Eliminator Right RW =Rectangular Wide Type I SNQ =Type V Square Narrow 5MQ =Type V Square Medium 5WQ =Type V Square Wide AFL =Automotive Frontline	QM =Quick Mount Arm for Round or Square Pole ^{2,13} MA =2-3/8" Mast Arm ^{2,14}	AP =Grey BZ =Bronze BK =Black DP =Dark Platinum GM =Graphite Metallic WH =White
Options (Add as Suffix) ¹			Controls and Systems Options (Add as Suffix)		Accessories (Order Separately) ³⁵		
F =Single Fused (120, 277 or 347V. Must Specify Voltage) FF =Double Fused (208, 240 or 480V. Must Specify Voltage) 10K =10kV Surge Module 20K =20kV UL 1449 Fused Surge Protective Device DIM =External 0-10V Dimming Leads ^{9,10} L90 =Optics Rotated 90° Left R90 =Optics Rotated 90° Right HSS =Factory Installed House Side Shield ²³ GRSBK =Factory Installed Glare Shield, BK ^{4,27} GRSWH =Factory Installed Glare Shield, WH ^{4,27} UPL =Uplight Housing ¹³ HA =50°C High Ambient ¹² LCF =Light Square Trim Plate Painted to Match Housing ²² MT =Factory Installed Mesh Top CC =Coastal Construction finish ⁵ CE =CE Marking and Small Terminal Block ²⁴ AHD145 =After Hours Dim, 5 Hours ¹⁶ AHD245 =After Hours Dim, 6 Hours ¹⁶ AHD355 =After Hours Dim, 7 Hours ¹⁶ AHD355 =After Hours Dim, 8 Hours ¹⁶ DALI =DALI Driver ¹¹			BPC =Button Type Photocontrol (120, 208, 240 or 277V. Must Specify Voltage) PR =NEMA 3-PIN Twistlock Photocontrol Receptacle PR7 =NEMA 7-PIN Twistlock Photocontrol Receptacle ¹⁵ FADC =Field Adjustable Dimming Controller ³⁷ SPB1 =Dimming Occupancy Sensor with Bluetooth Interface, <8' Mounting ^{19,33} SPB2 =Dimming Occupancy Sensor with Bluetooth Interface, 8'-20' Mounting ^{19,33} SPB4 =Dimming Occupancy Sensor with Bluetooth Interface, 21'-40' Mounting ^{19,33} MS-LXX =Motion Sensor for On/Off Operation ^{17,18,19} MS/DIM-LXX =Motion Sensor for Dimming Operation ^{17,18,19} ZW =WaveLinx-enabled 4-PIN Twistlock Receptacle ^{29,30} ZD =WaveLinx Module with DALI driver and 4-PIN Receptacle ^{29,30} SWPD4XX =WaveLinx Sensor Only, 7'-15' ^{31,32} SWPD5XX =WaveLinx Sensor Only, 15'-40' ^{31,32} WOBXX =WaveLinx Sensor with Bluetooth, 7'-15' ^{31,32} WOFXX =WaveLinx Sensor with Bluetooth, 15'-40' ^{31,32} LWR-LW =Enlighted Wireless Sensor, Wide Lens for 8'-16' Mounting Height ^{19,20,21} LWR-LN =Enlighted Wireless Sensor, Narrow Lens for 16'-40' Mounting Height ^{19,20,21}		OA/RA1013 =Photocontrol Shorting Cap ²⁸ OA/RA1016 =NEMA Photocontrol - Multi-Tap 105-285V ²⁸ OA/RA1201 =NEMA Photocontrol - 347V ²⁸ OA/RA1027 =NEMA Photocontrol - 480V ²⁸ MA1252 =10kV Circuit Module Replacement MA1059XX =Thru-branch Back Box (Must Specify Color) LS/HSS =Field Installed House Side Shield ^{23,25} LS/GRSBK =Glare Shield, Black ^{8,25,27} LS/GRSWH =Glare Shield, White ^{8,25,27} LS/PFS =Perimeter Shield, Black FSIR-100 =Wireless Configuration Tool for Occupancy Sensor ¹⁷ WOLC-7P-10A =WaveLinx Outdoor Control Module (7-pin) ^{26,29} SWPD4-XX =WaveLinx Wireless Sensor, 7' - 15' Mounting Height ^{29,30,31,32} SWPD5-XX =WaveLinx Wireless Sensor, 15' - 40' Mounting Height ^{29,30,31,32}		
NOTES: 1. DesignLight Consortium® Qualified. Refer to www.designlights.org, Qualified Products List under Family Models for details. 2. Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to our white paper WP513001EN for additional information. 3. Narrow-band 590nm +/- 5nm for wildlife and observatory use. Choose drive current A; supplied at 500mA drive current only. Available with 5WQ, 5MQ, SL2, SL3 and SL4 distributions. Can be used with HSS option. 4. Not available with HA option. 5. Coastal construction finish salt spray tested to over 5,000-hours per ASTM B117, with a scribe rating of 9 per ASTM D1654. 6. Require the use of a step down transformer. Not available in combination with sensor options at 1200mA. 7. 480V not to be used with ungrounded or impedance grounded systems. 8. DuraVolt drivers feature added protection from power quality issues such as loss of neutral, transients and voltage fluctuations. Visit www.signify.com/duravolt for more information. 9. Cannot be used with other control options. 10. Low voltage control leads extended 18" from fixture. 11. Not available in 1200mA. When used with CBP or HA options, only available with single light square. 12. Not available in 1200mA, UPL or CBP options. Available with single light square. 13. Quick mount arm adapter is factory installed. Pole mounting bracket shipped in box. Suitable for 1.5G. Fits square and round poles up to 6" O.D. 14. Mast arm adapter factory installed (2-3/8" O.D. arm only). Suitable for 3G vibration. 15. Compatible with standard 3-PIN photocontrols, 5-PIN or 7-PIN ANSI controls. 16. Requires the use of BPC photocontrol or the PR7 or PR photocontrol receptacle with photocontrol accessory. See After Hours Dim supplemental guide for additional information. 17. The FSIR-100 configuration tool is required to adjust parameters such as high and low modes, sensitivity, time delay and cutoff. Consult your lighting representative at Cooper Lighting Solutions for more information. 18. Replace LXX with L08 (<8' mounting), L20 (8'-20' mounting) or L40W (21'-40' mounting). 19. Includes integral photosensor. 20. Enlighted wireless sensors are factory installed requiring network components in appropriate quantities. 21. Bronze sensor is shipped with Bronze fixtures. White sensor shipped on all other housing color options. 22. Not available with HSS or GRS options. 23. Not for use with 5NQ, 5MQ, 5WQ or RW optics. The light square trim plate is painted black when the HSS option is selected. 24. CE is not available with the 1200, DALI, LWR, MS, MS/DIM, BPC, PR or PR7 options. Available in 120-277V only. 25. One required for each light square. 26. Requires PR7. 27. Not for use with T4FT, T4W or SL4 optics. 29. Cannot be used in conjunction with additional photocontrol or other controls systems (BPC, PR, PR7, MS, LWR). 30. WAC Gateway required to enable field-configurability: Order WAC-PoE and WPOE-120 (10V to PoE injector) power supply if needed. 31. Requires ZW or ZD receptacle. 32. Replace XX with sensor color (WH, BZ, or BK). 33. Smart device with mobile application required to change system defaults. See controls section for details. 34. Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to DOMESTIC.PREFERENCES website for more information. Components shipped separately may be separately analyzed under domestic preference requirements. 35. For BAA or TAA requirements, Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information. 36. Not available in 1 square configuration at 800mA or below. Not available with any control option except SPB. 37. Cannot be used with PR7 or other motion response control options.							

Product Specifications

Construction

- Driver enclosure thermally isolated from optics for optimal thermal performance
- Die-cast aluminum heat sinks
- IP66 rated housing
- 1.5G vibration rated

Optics

- Patented, high-efficiency injection-molded AccuLED Optics technology
- 13 optical distributions
- Dark Sky Approved (3000K CCT and warmer only)

Electrical

- LED driver assembly mounted for ease of maintenance
- Standard with 0-10V dimming
- Optional 10kV or 20kV surge module
- Suitable for operation in -40C to 40C ambient environments. Optional 50C high ambient (HA) configuration.

Mounting

- Gasketed and zinc plated rigid steel mounting attachment
- "Hook-N-Lock" mechanism for easy installation

Finish

- Housing finished in super durable TGIC polyester powder coat paint, 2.5 mil nominal thickness
- Heat sink is powder coated black
- RAL and custom color matches available
- Coastal Construction (CC) option available

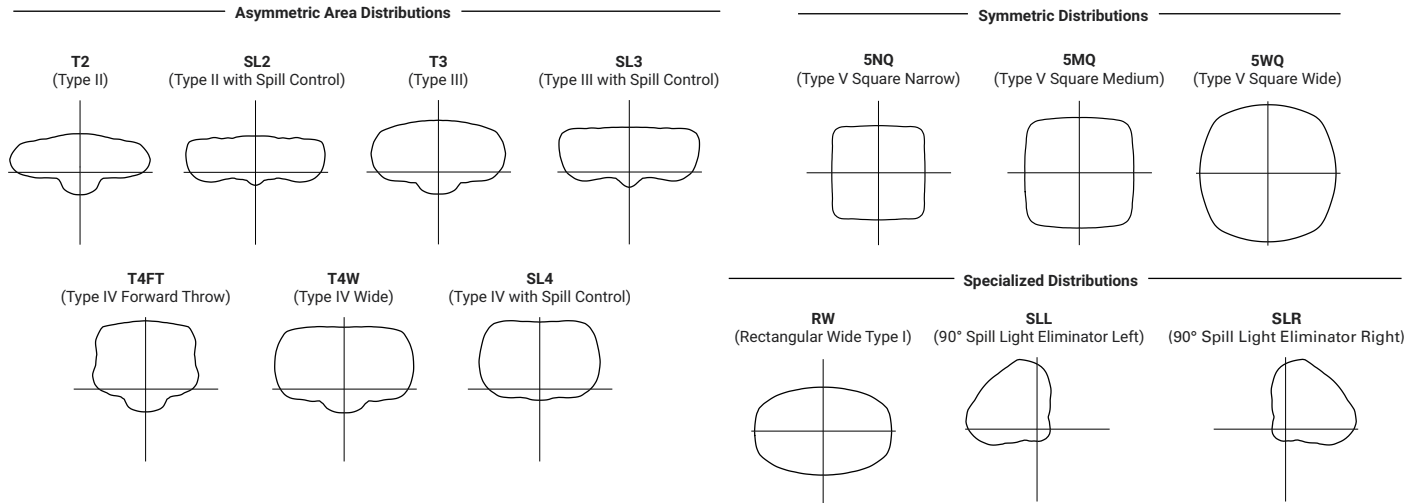
Typical Applications

- Outdoor, Parking Lots, Walkways, Roadways, Building Areas

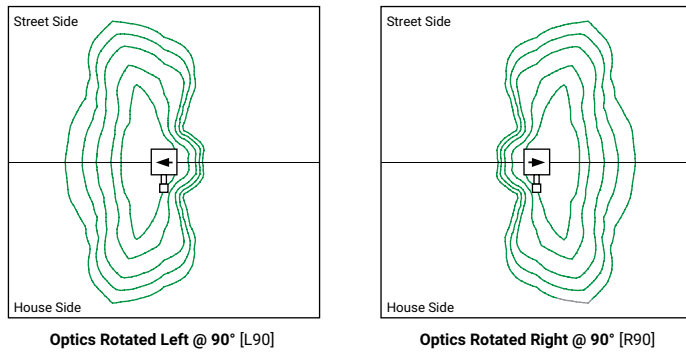
Warranty

- Five-year warranty

Optical Distributions



Optic Orientation



Energy and Performance Data

Lumen Multiplier

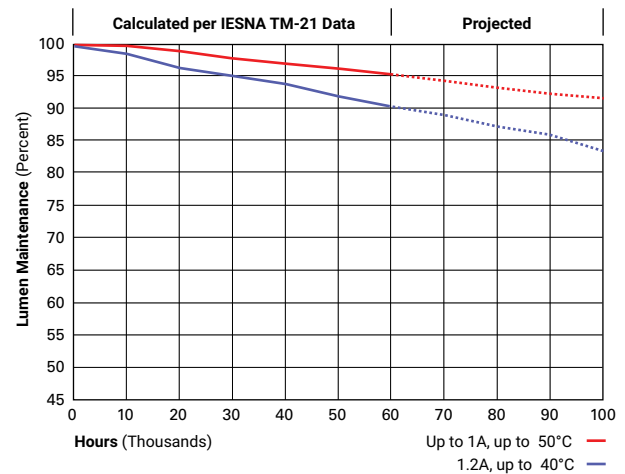
Ambient Temperature	Lumen Multiplier
0°C	1.02
10°C	1.01
25°C	1.00
40°C	0.99
50°C	0.97

FADC Settings

FADC Position	Lumen Multiplier
1	25%
2	46%
3	55%
4	62%
5	72%
6	77%
7	82%
8	85%
9	90%
10	100%

Lumen Maintenance

Drive Current	Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Projected L70 (Hours)
Up to 1A	Up to 50°C	> 95%	> 416,000
1.2A	Up to 40°C	> 90%	> 205,000



Energy and Performance Data

 [View GPC Galleon Pedestrian IES files](#)

4000K/5000K/6000K CCT, 70 CRI

Number of Light Squares		1				2			
Drive Current		615mA	800mA	1050mA	1.2A	615mA	800mA	1050mA	1.2A
Nominal Power (Watts)		34	44	59	67	66	86	113	129
Input Current @ 120V (A)		0.30	0.39	0.51	0.58	0.58	0.77	1.02	1.16
Input Current @ 208V (A)		0.17	0.22	0.29	0.33	0.34	0.44	0.56	0.63
Input Current @ 240V (A)		0.15	0.19	0.26	0.29	0.30	0.38	0.48	0.55
Input Current @ 277V (A)		0.14	0.17	0.23	0.25	0.28	0.36	0.42	0.48
Input Current @ 347V (A)		0.11	0.15	0.17	0.20	0.19	0.24	0.32	0.39
Input Current @ 480V (A)		0.08	0.11	0.14	0.15	0.15	0.18	0.24	0.30
Optics									
T2	Lumens	4,883	5,989	7,412	8,131	9,543	11,703	14,485	15,891
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3
	Lumens per Watt	144	136	126	121	145	136	128	123
T3	Lumens	4,978	6,105	7,556	8,288	9,729	11,929	14,764	16,196
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3
	Lumens per Watt	146	139	128	124	147	139	131	126
T4FT	Lumens	5,008	6,140	7,599	8,337	9,783	11,998	14,850	16,290
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G3
	Lumens per Watt	147	140	129	124	148	140	131	126
T4W	Lumens	4,942	6,060	7,502	8,229	9,658	11,843	14,658	16,080
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3
	Lumens per Watt	145	138	127	123	146	138	130	125
SL2	Lumens	4,874	5,979	7,399	8,117	9,528	11,684	14,461	15,863
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G3	B3-U0-G3
	Lumens per Watt	143	136	125	121	144	136	128	123
SL3	Lumens	4,976	6,104	7,555	8,287	9,727	11,927	14,763	16,194
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G3
	Lumens per Watt	146	139	128	124	147	139	131	126
SL4	Lumens	4,729	5,799	7,178	7,873	9,239	11,333	14,025	15,387
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3	B1-U0-G3	B1-U0-G3	B2-U0-G4	B2-U0-G4
	Lumens per Watt	139	132	122	118	140	132	124	119
5NQ	Lumens	5,134	6,296	7,793	8,547	10,033	12,303	15,226	16,704
	BUG Rating	B2-U0-G1	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2
	Lumens per Watt	151	143	132	128	152	143	135	129
5MQ	Lumens	5,228	6,412	7,935	8,705	10,216	12,529	15,508	17,011
	BUG Rating	B3-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2
	Lumens per Watt	154	146	134	130	155	146	137	132
5WQ	Lumens	5,242	6,428	7,956	8,728	10,244	12,563	15,548	17,056
	BUG Rating	B3-U0-G1	B3-U0-G2	B3-U0-G2	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2
	Lumens per Watt	154	146	135	130	155	146	138	132
SLL/SLR	Lumens	4,373	5,365	6,640	7,283	8,547	10,481	12,973	14,231
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G3
	Lumens per Watt	129	122	113	109	130	122	115	110
RW	Lumens	5,087	6,238	7,721	8,472	9,941	12,190	15,088	16,553
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2
	Lumens per Watt	150	142	131	126	151	142	134	128

* Nominal lumen data for 70 CRI. BUG rating for 4000K/5000K. Refer to IES files for 3000K BUG ratings.

3000K CCT, 80 CRI

Number of Light Squares		1				2			
Drive Current		615mA	800mA	1050mA	1.2A	615mA	800mA	1050mA	1.2A
Nominal Power (Watts)		34	44	59	67	66	86	113	129
Input Current @ 120V (A)		0.30	0.39	0.51	0.58	0.58	0.77	1.02	1.16
Input Current @ 208V (A)		0.17	0.22	0.29	0.33	0.34	0.44	0.56	0.63
Input Current @ 240V (A)		0.15	0.19	0.26	0.29	0.30	0.38	0.48	0.55
Input Current @ 277V (A)		0.14	0.17	0.23	0.25	0.28	0.36	0.42	0.48
Input Current @ 347V (A)		0.11	0.15	0.17	0.20	0.19	0.24	0.32	0.39
Input Current @ 480V (A)		0.08	0.11	0.14	0.15	0.15	0.18	0.24	0.30
Optics									
T2	Lumens	3,880	4,759	5,890	6,461	7,583	9,300	11,510	12,628
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G3
	Lumens per Watt	114	108	100	96	115	108	102	98
T3	Lumens	3,956	4,851	6,004	6,586	7,731	9,479	11,732	12,870
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2
	Lumens per Watt	116	110	102	98	117	110	104	100
T4FT	Lumens	3,980	4,879	6,038	6,625	7,774	9,534	11,800	12,945
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G3
	Lumens per Watt	117	111	102	99	118	111	104	100
T4W	Lumens	3,927	4,816	5,961	6,539	7,675	9,411	11,648	12,778
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3
	Lumens per Watt	116	109	101	98	116	109	103	99
SL2	Lumens	3,873	4,751	5,880	6,450	7,571	9,285	11,491	12,605
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G3
	Lumens per Watt	114	108	100	96	115	108	102	98
SL3	Lumens	3,954	4,851	6,004	6,585	7,729	9,478	11,731	12,868
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3
	Lumens per Watt	116	110	102	98	117	110	104	100
SL4	Lumens	3,758	4,608	5,704	6,256	7,342	9,006	11,145	12,227
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3	B1-U0-G3	B1-U0-G3	B1-U0-G3
	Lumens per Watt	111	105	97	93	111	105	99	95
5NQ	Lumens	4,080	5,003	6,193	6,792	7,973	9,776	12,099	13,274
	BUG Rating	B2-U0-G0	B2-U0-G1	B2-U0-G1	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2
	Lumens per Watt	120	114	105	101	121	114	107	103
5MQ	Lumens	4,154	5,095	6,305	6,917	8,118	9,956	12,323	13,518
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2	B4-U0-G2	B4-U0-G2
	Lumens per Watt	122	116	107	103	123	116	109	105
5WQ	Lumens	4,166	5,108	6,322	6,936	8,140	9,983	12,355	13,553
	BUG Rating	B3-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2
	Lumens per Watt	123	116	107	104	123	116	109	105
SLL/SLR	Lumens	3,475	4,263	5,276	5,787	6,792	8,329	10,309	11,309
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G3	B2-U0-G3
	Lumens per Watt	102	97	89	86	103	97	91	88
RW	Lumens	4,042	4,957	6,135	6,732	7,900	9,687	11,990	13,154
	BUG Rating	B2-U0-G1	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2
	Lumens per Watt	119	113	104	100	120	113	106	102

* Nominal lumen data for 70 CRI. BUG rating for 4000K/5000K. Refer to IES files for 3000K BUG ratings.

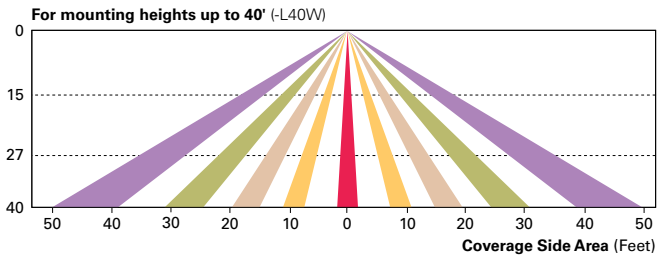
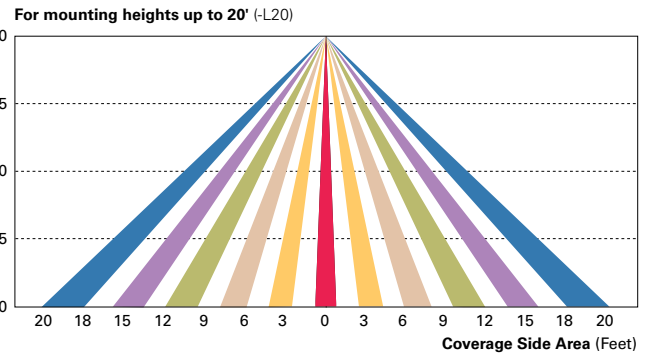
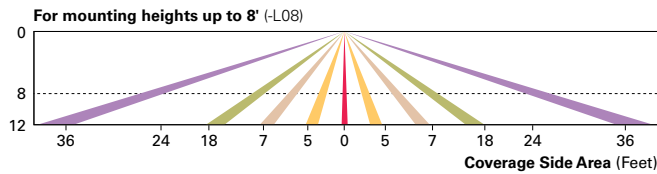
Control Options

0-10V This fixture is offered standard with 0-10V dimming driver(s). The DIM option provides 0-10V dimming wire leads for use with a lighting control panel or other control method.

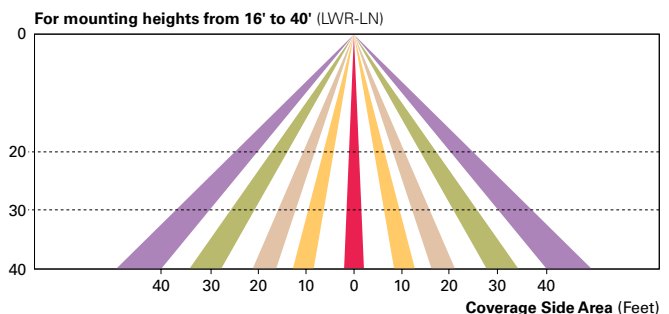
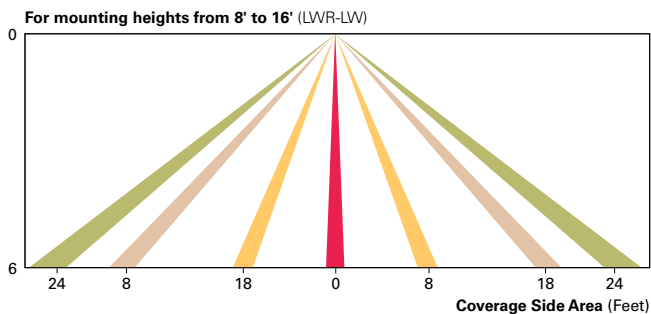
Photocontrol (BPC, PR, and PR7) Optional button-type photocontrol (BPC) and photocontrol receptacles (PR and PR7) provide a flexible solution to enable “dusk-to-dawn” lighting by sensing light levels. Advanced control systems compatible with NEMA 7-pin standards can be utilized with the PR7 receptacle.

After Hours Dim (AHD) This feature allows photocontrol-enabled luminaires to achieve additional energy savings by dimming during scheduled portions of the night. The dimming profile will automatically take effect after a “dusk-to-dawn” period has been calculated from the photocontrol input. Specify the desired dimming profile for a simple, factory-shipped dimming solution requiring no external control wiring. Reference the After Hours Dim supplemental guide for additional information.

Dimming Occupancy Sensor (SPB, MS/DIM-LXX and MS-LXX) These sensors are factory installed in the luminaire housing. When the SPB or MS/DIM sensor options are selected, the occupancy sensor is connected to a dimming driver and the entire luminaire dims when there is no activity detected. When activity is detected, the luminaire returns to full light output. The MS/DIM sensor is factory preset to dim down to approximately 50 percent power with a time delay of five minutes. The MS-LXX sensor is factory preset to turn the luminaire off after five minutes of no activity. SPB motion sensors require the Sensor Configuration mobile application by Wattstopper to change factory default dimming level, time delay, sensitivity and other parameters. Available for iOS and Android devices. The SPB sensor is factory preset to dim down to approximately 10% power with a time delay of five minutes. The MS/DIM occupancy sensors require the FSIR-100 programming tool to adjust factory defaults.



Enlighted Wireless Control and Monitoring System (LWR-LW and LWR-LN) The Enlighted control system is a connected lighting solution, combining LED luminaires with an integrated wireless sensor system. The sensor controls the lighting system in compliance with the latest energy codes while collecting valuable data about building performance and use. Software applications utilizing energy dashboards maximize data inputs to help optimize the use of other resources beyond lighting.



WaveLinX Wireless Outdoor Lighting Control Module (WOLC-7P-10A) The 7-pin wireless outdoor lighting control module enables WaveLinX to control outdoor area, site and flood lighting. WaveLinX controls outdoor lighting using schedules to provide ON, OFF and dimming controls based on astronomic or time schedules based on a 7 day week.

Northern Credit Union Drive-thru Development
City of Watertown, Jefferson County, New York

Stormwater Report

August 9, 2022

Prepared For:

Northern Credit Union
120 Factory St.
Watertown, NY 13601
315.782.0155

Prepared By:

Otisco Design, D.P.C.
4683 Manor Hill Dr.
Syracuse, NY 13215
315.430.7754

Otisco Design No. 221010.00

Table of Contents

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2.0 SYSTEM ENGINEERING 2

 2.1 Existing Conditions

 2.2 Developed Conditions

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3.0 CONCLUSION

APPENDICES

- Appendix A: Watershed Maps
- Existing Watershed Map
 - Proposed Watershed Map
- Soils Information
- Appendix B: Stormwater Calculations
- Stormwater Quantity Calculations

I. PROJECT INFORMATION

Project Title: Northern Credit Union Drive-thru Development
Project Address: 1841 State St., Watertown, NY 13601 (City of Watertown)
Project Owner: Northern Credit Union
Project Contact: Dorothy Wolff

1. BACKGROUND INFORMATION:

1. **Location:** The project site is located at 1851 State Street between Eastern Boulevard and Hunt Street in the City of Watertown - Jefferson County in the State of New York.
2. **Scope:** The project involves the construction of a new drive-thru ATM with associated asphalt circulation, site utilities, lighting and landscaping. The existing property is an undeveloped property consisting of a grass lawn.

Proposed stormwater management practices includes a small lawn basin used for temporary stormwater detention and infiltration.

3. **Existing Site:** The site is an undeveloped commercial property consisting of grass lawn.

The site drains to the east and northeast corner of the property via sheet drainage and shallow concentrated flow, where it continues as shallow concentrated flow at the back of adjacent properties.

There are no existing stormwater management practices.

4. **Proposed Site:** The proposed stormwater management approach utilizes temporary stormwater detention and infiltration to mitigate off-site discharges of stormwater runoff.
5. **Size:** The project will disturb approximately 0.73 acres.
6. **Site / Watershed Maps:** Refer to Appendix A for attached watershed mapping sheets.
7. **Soils:** The site consists of 33% of Galen fine sandy loam (GaB), 42% Udorthents (Ub) which are the hydrological soil group rating of A for soils with high infiltration rates and low runoff potential. 22% of the site is Minoa fine sandy loam (Mv), which is a Type B with moderate infiltration rates.

II. SYSTEM ENGINEERING

1. EXISTING CONDITIONS: see map in Appendix A, calculations in Appendix B.

A. Watershed 1 – **1.46 acres (Discharge To Northeast)**

- a. CN Calculations
 - 1.14 acres lawn, type A, good condition = CN 39
 - 0.32 acres lawn, type B, good condition = CN 61
 - Composite CN = 44**
- b. TOC = 5.0 minutes

2. DEVELOPED CONDITIONS: see map in Appx. A, calculations in Appx. B.

A. Watershed 1A – **0.67 acres (Captured Discharge To Northeast)**

- a. CN Calculations
 - 0.30 acres pavement/roof = CN 98
 - 0.76 acres lawn, type A, good condition = CN 39
 - Composite CN = 56**
- b. TOC = 5.0 minutes

B. Watershed 1B – **0.67 acres (Uncaptured Discharge To Northeast)**

- a. CN Calculations
 - 0.40 acres lawn, type A, good condition = CN 39
 - Composite CN = 39**
- b. TOC = 5.0 minutes

3. STORMWATER QUANTITY

1. Methodologies:
 - a. Watershed modeling utilizing Soil Conservation Service TR-20 methodology was performed to evaluate runoff from existing and developed conditions using Hydraflow and Autodesk Civil 3D 2020. Due to the T.O.C. calculations being below 5-minutes, a 5-minute minimum T.O.C. was used for each subwatershed.
2. Calculations: Refer to Appendix B for summary stormwater calculations.
3. **Mitigation:**
 - a. Post Watershed 1A: This watershed area achieves a reduction in runoff rates thru the use of detention/infiltration in a detention basin.
 - b. Post Watershed 1B: Uncaptured lawn area at north end of property.

- c. See Table 1 & Table 2 for a comparison of pre and post development discharge rates.

Table 1: Pre-Developed Calculations (in cfs)

WATERSHED	STORM EVENT		
	1-Year	10-Year	100-Year
Watershed 1	0.000	0.005	0.159

Table 2: Post-Developed Calculations (in cfs)

WATERSHED	STORM EVENT		
	1-Year	10-Year	100-Year
Watershed 1 Treated	0.000	0.000	0.000
Watershed 1B	0.000	0.000	0.004
Watershed 1 Total	0.000	0.000	0.004

III. CONCLUSION

The proposed stormwater management practices use temporary detention with infiltration. Stormwater runoff rates are not increased over existing conditions for all storm events up to the 100-year storm.

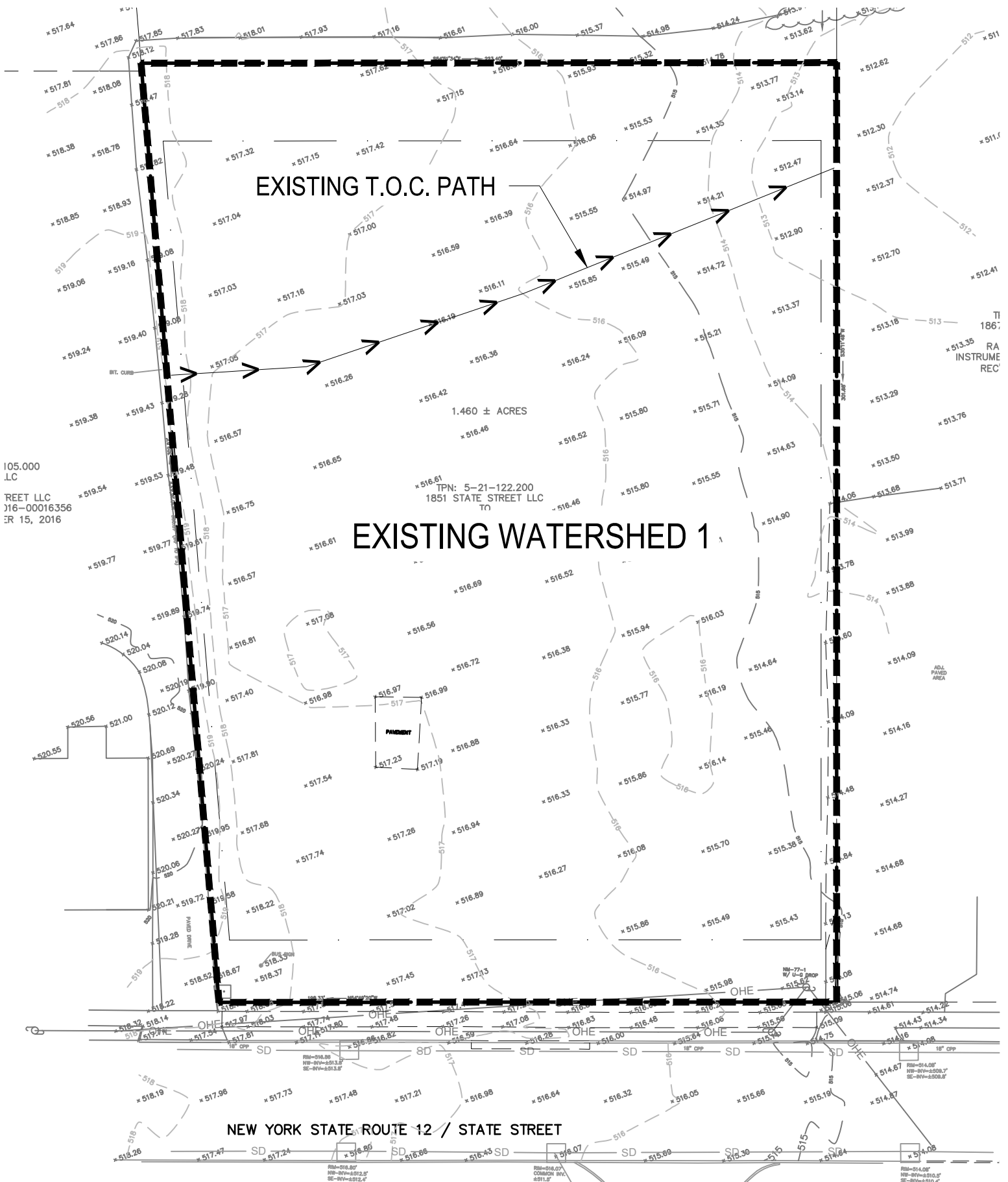
A conservative infiltration rate of 2.0"/hr. was used based on levels consistent with Type A soils.

The stormwater management plan allows for the maintenance of existing drainage patterns to the greatest extent feasible.

APPENDIX A

Watershed Maps

Soils Information



105.000
LC
REET LLC
116-00016356
R 15, 2016

EXISTING T.O.C. PATH

1.460 ± ACRES

TPN: 5-21-122.200
1851 STATE STREET LLC
TN

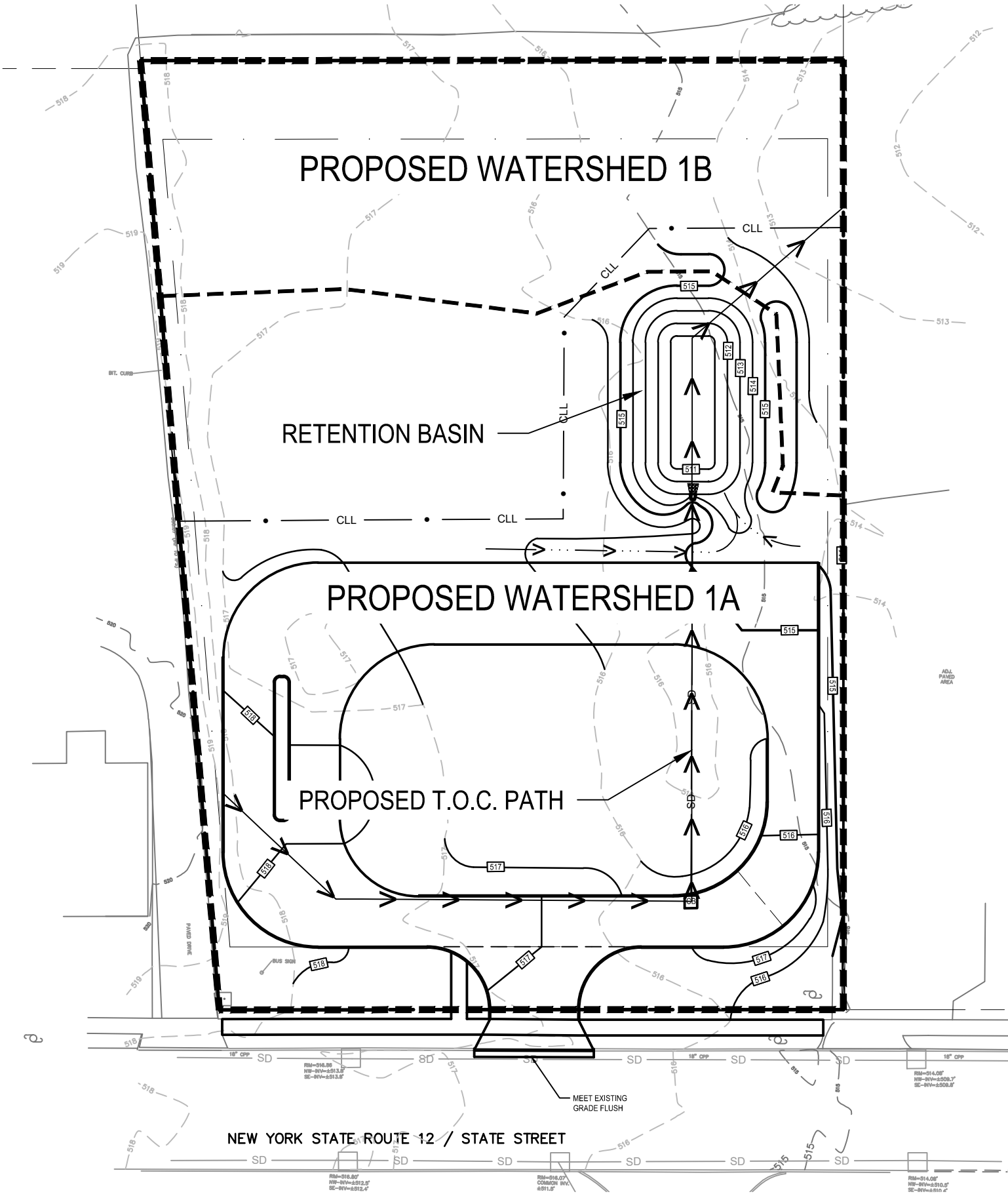
EXISTING WATERSHED 1

NEW YORK STATE ROUTE 12 / STATE STREET

W1

EXISTING WATERSHED MAPPING

1" = 40'



W2

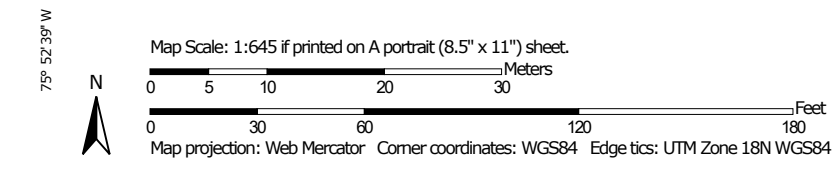
PROPOSED WATERSHED MAPPING

1" = 40'

Hydrologic Soil Group—Jefferson County, New York
(NCU State)




Soil Map may not be valid at this scale.



MAP LEGEND

Area of Interest (AOI)









 Area of Interest (AOI)

Soils

Soil Rating Polygons





 A
 A/D
 B
 B/D
 C
 C/D
 D
 Not rated or not available

Soil Rating Lines


 A
 A/D
 B
 B/D
 C
 C/D
 D
 Not rated or not available

Soil Rating Points

 A
 A/D
 B
 B/D

 C
 C/D
 D
 Not rated or not available

Water Features

 Streams and Canals

Transportation

 Rails
 Interstate Highways
 US Routes
 Major Roads
 Local Roads

Background

 Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL:
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Jefferson County, New York
 Survey Area Data: Version 21, Sep 1, 2021

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jul 19, 2020—Nov 5, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
Fu	Fluvaquents-Udifuvents complex, frequently flooded	A/D	0.0	2.1%
GaB	Galen fine sandy loam, 3 to 8 percent slopes	A/D	0.4	33.4%
Mv	Minoa fine sandy loam	B/D	0.3	22.4%
Ub	Udorthents, smoothed	A	0.6	42.1%
Totals for Area of Interest			1.3	100.0%

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

APPENDIX B

Stormwater Calculations

Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2022

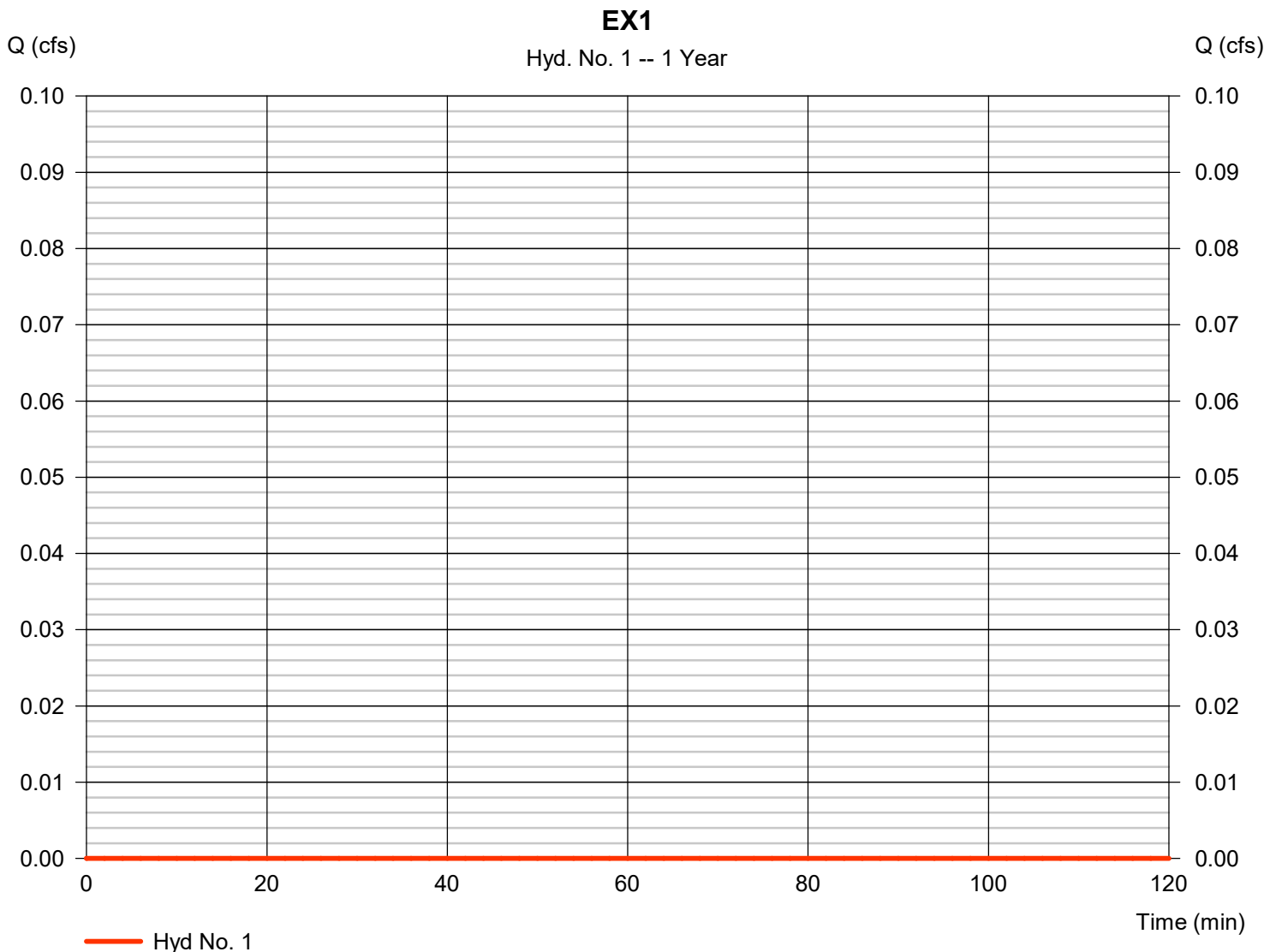
Tuesday, 08 / 9 / 2022

Hyd. No. 1

EX1

Hydrograph type	= SCS Runoff	Peak discharge	= 0.000 cfs
Storm frequency	= 1 yrs	Time to peak	= n/a
Time interval	= 2 min	Hyd. volume	= 0 cuft
Drainage area	= 1.460 ac	Curve number	= 44*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 1.90 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(1.140 x 39) + (0.320 x 61)] / 1.460



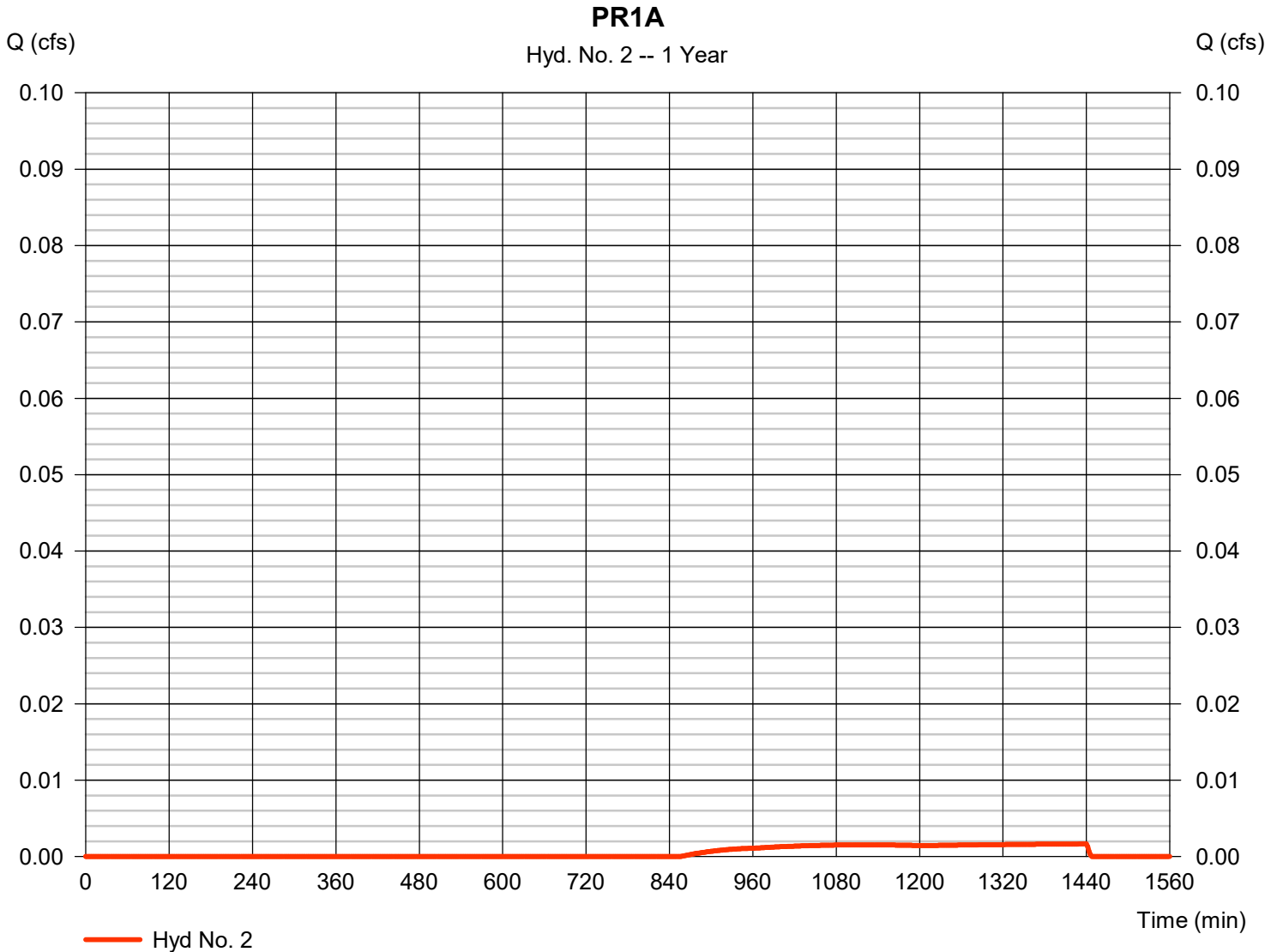
Hydrograph Report

Hyd. No. 2

PR1A

Hydrograph type	= SCS Runoff	Peak discharge	= 0.002 cfs
Storm frequency	= 1 yrs	Time to peak	= 1440 min
Time interval	= 2 min	Hyd. volume	= 48 cuft
Drainage area	= 1.060 ac	Curve number	= 56*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 1.90 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(0.300 x 98) + (0.760 x 39)] / 1.060



Hydrograph Report

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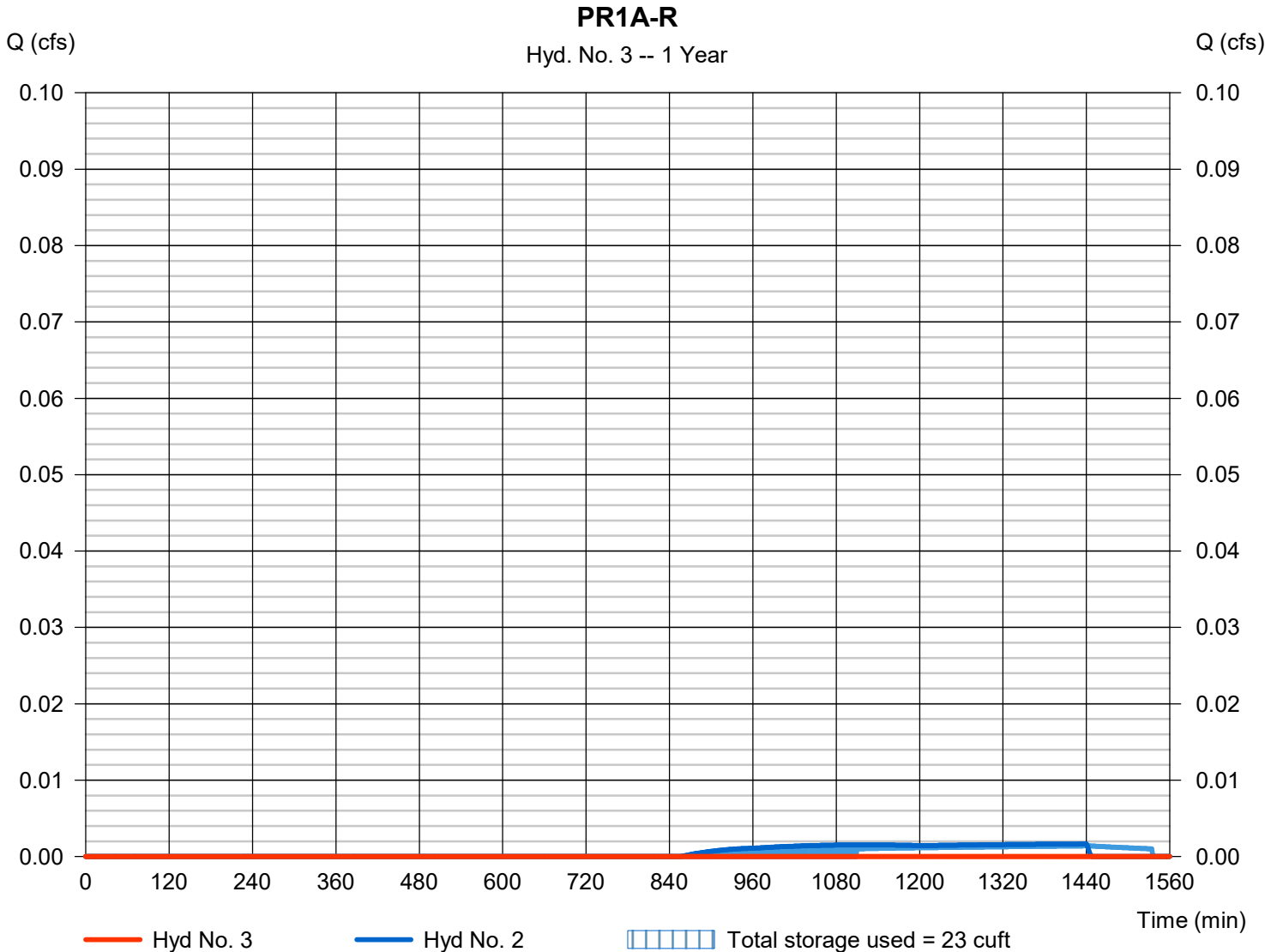
Tuesday, 08 / 9 / 2022

Hyd. No. 3

PR1A-R

Hydrograph type	= Reservoir	Peak discharge	= 0.000 cfs
Storm frequency	= 1 yrs	Time to peak	= n/a
Time interval	= 2 min	Hyd. volume	= 0 cuft
Inflow hyd. No.	= 2 - PR1A	Max. Elevation	= 511.03 ft
Reservoir name	= Basin1	Max. Storage	= 23 cuft

Storage Indication method used. Exfiltration extracted from Outflow.



Hydrograph Report

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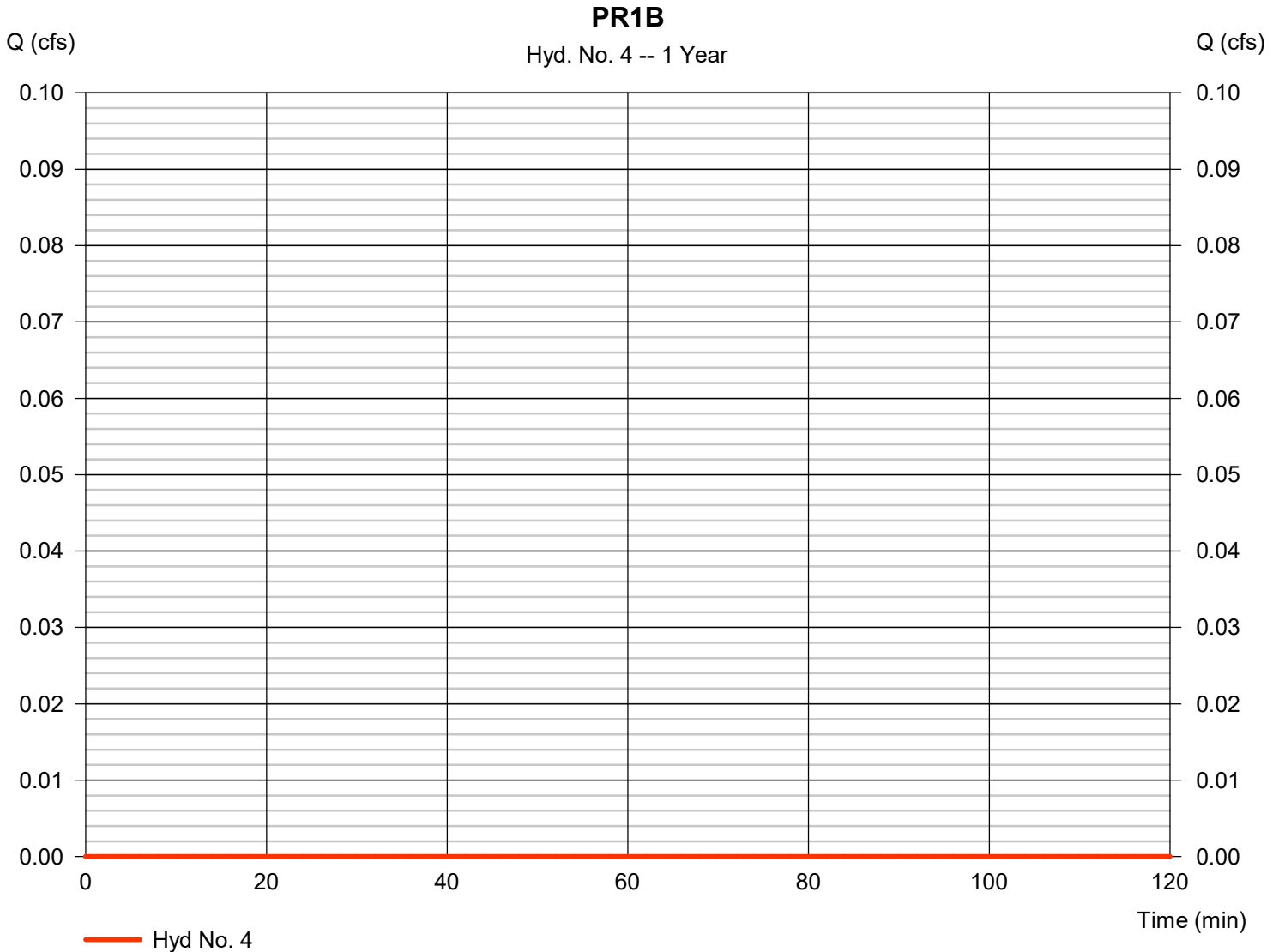
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Hyd. No. 4

PR1B

Hydrograph type	= SCS Runoff	Peak discharge	= 0.000 cfs
Storm frequency	= 1 yrs	Time to peak	= n/a
Time interval	= 2 min	Hyd. volume	= 0 cuft
Drainage area	= 0.400 ac	Curve number	= 39*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 1.90 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(0.400 x 39)] / 0.400



Hydrograph Report

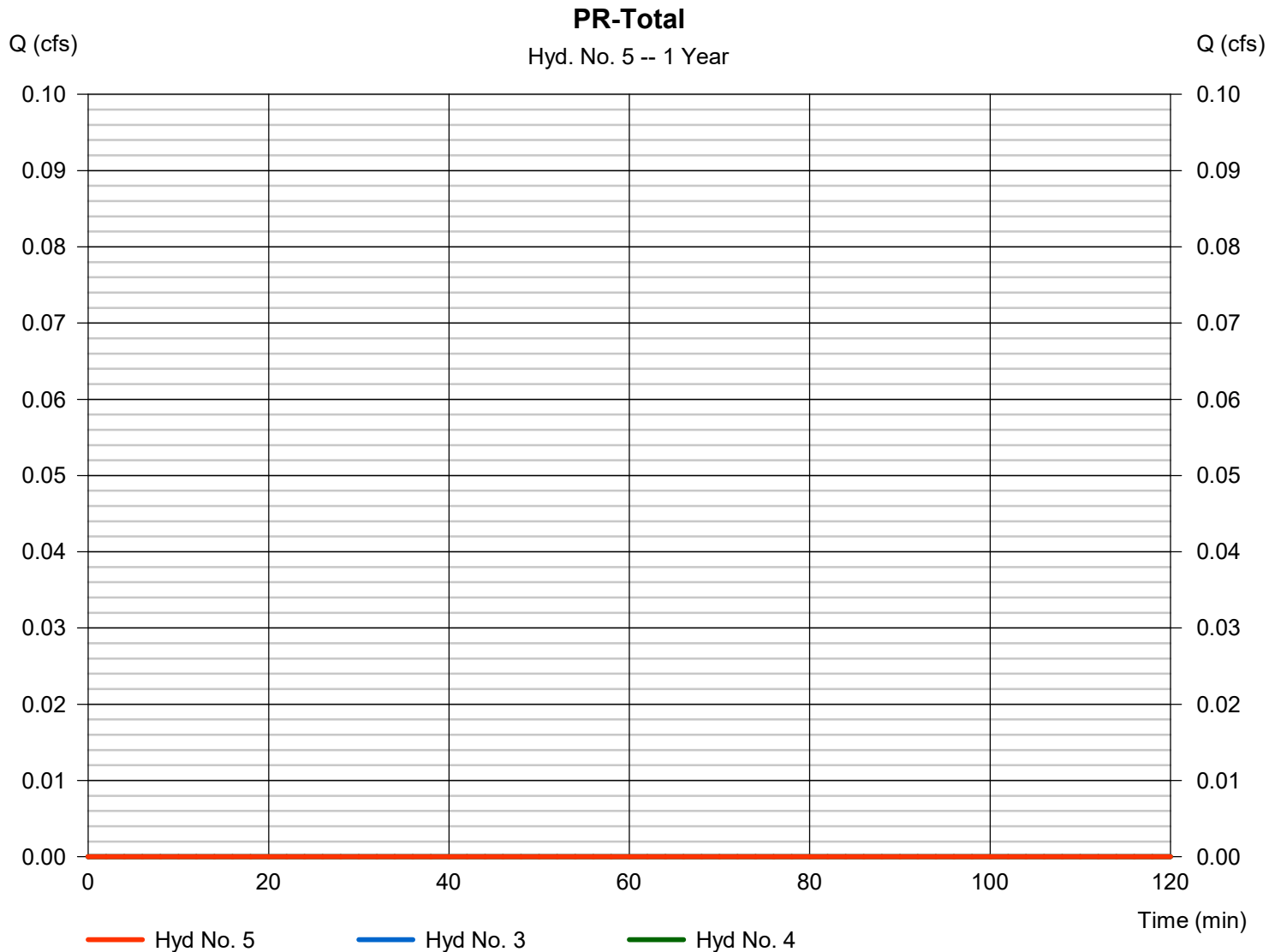
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Hyd. No. 5

PR-Total

Hydrograph type	= Combine	Peak discharge	= 0.000 cfs
Storm frequency	= 1 yrs	Time to peak	= n/a
Time interval	= 2 min	Hyd. volume	= 0 cuft
Inflow hyds.	= 3, 4	Contrib. drain. area	= 0.400 ac



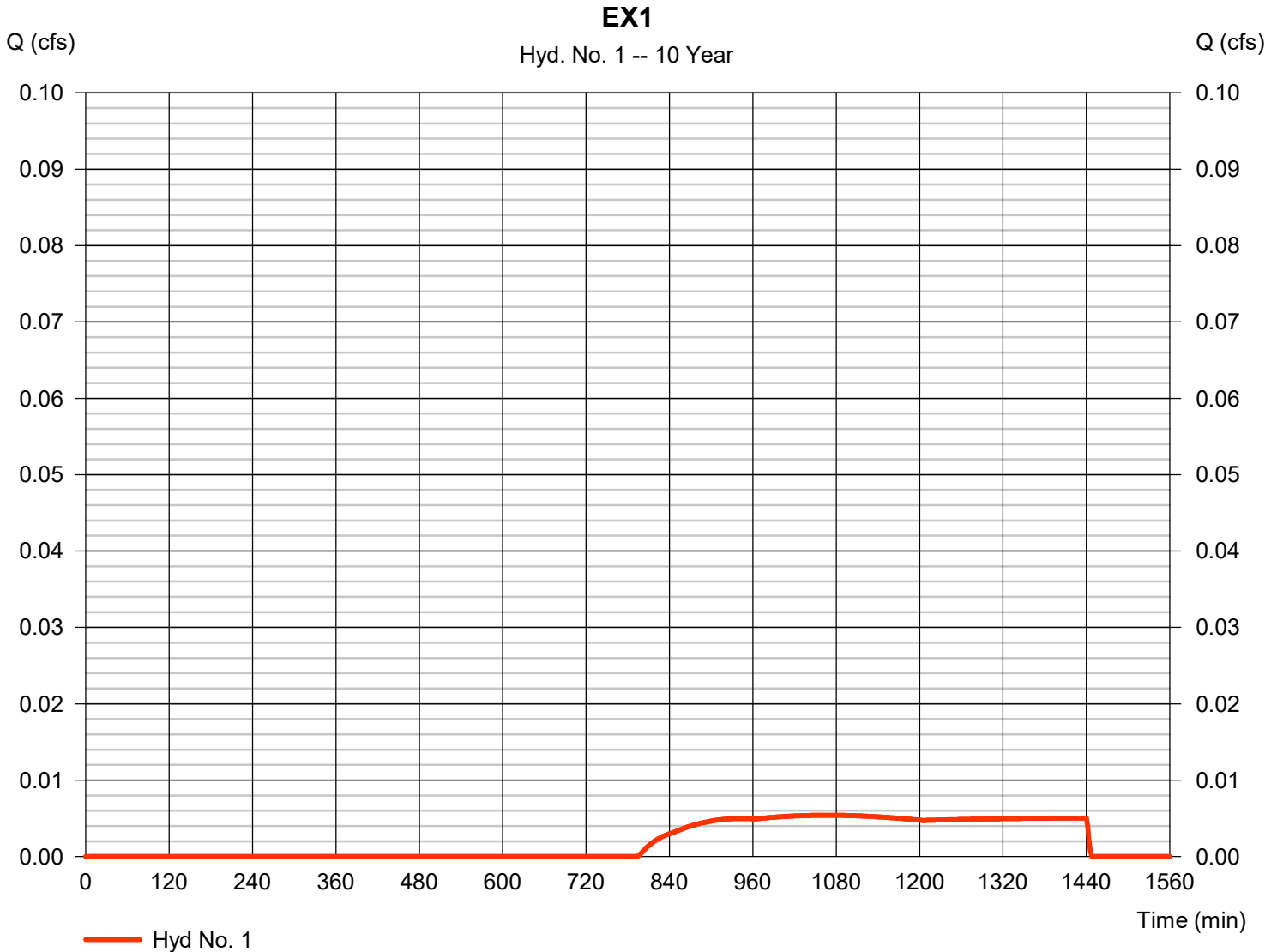
Hydrograph Report

Hyd. No. 1

EX1

Hydrograph type	= SCS Runoff	Peak discharge	= 0.005 cfs
Storm frequency	= 10 yrs	Time to peak	= 1068 min
Time interval	= 2 min	Hyd. volume	= 184 cuft
Drainage area	= 1.460 ac	Curve number	= 44*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 3.25 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(1.140 x 39) + (0.320 x 61)] / 1.460



Hydrograph Report

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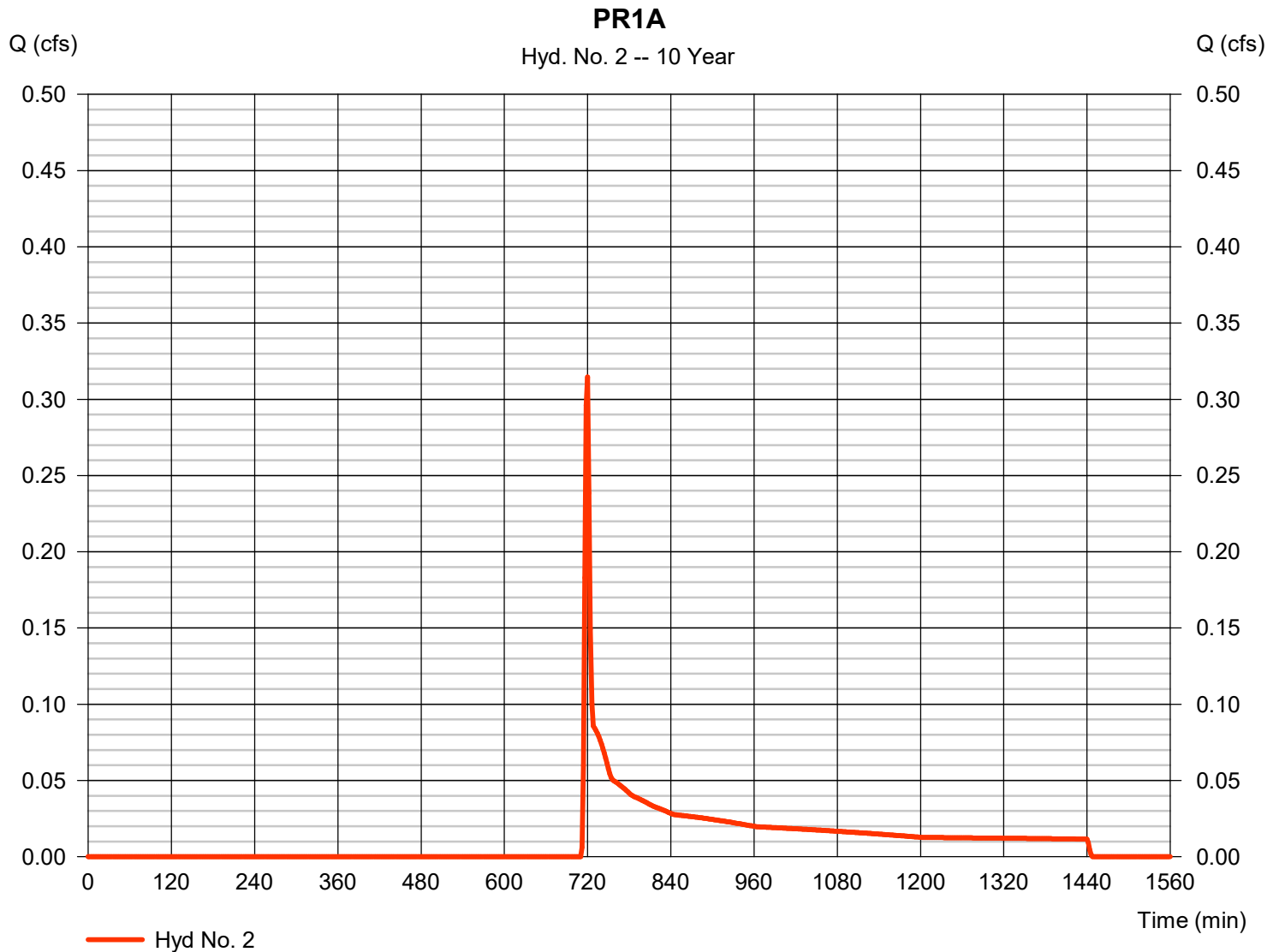
Tuesday, 08 / 9 / 2022

Hyd. No. 2

PR1A

Hydrograph type	= SCS Runoff	Peak discharge	= 0.315 cfs
Storm frequency	= 10 yrs	Time to peak	= 720 min
Time interval	= 2 min	Hyd. volume	= 1,065 cuft
Drainage area	= 1.060 ac	Curve number	= 56*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 3.25 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(0.300 x 98) + (0.760 x 39)] / 1.060



Hydrograph Report

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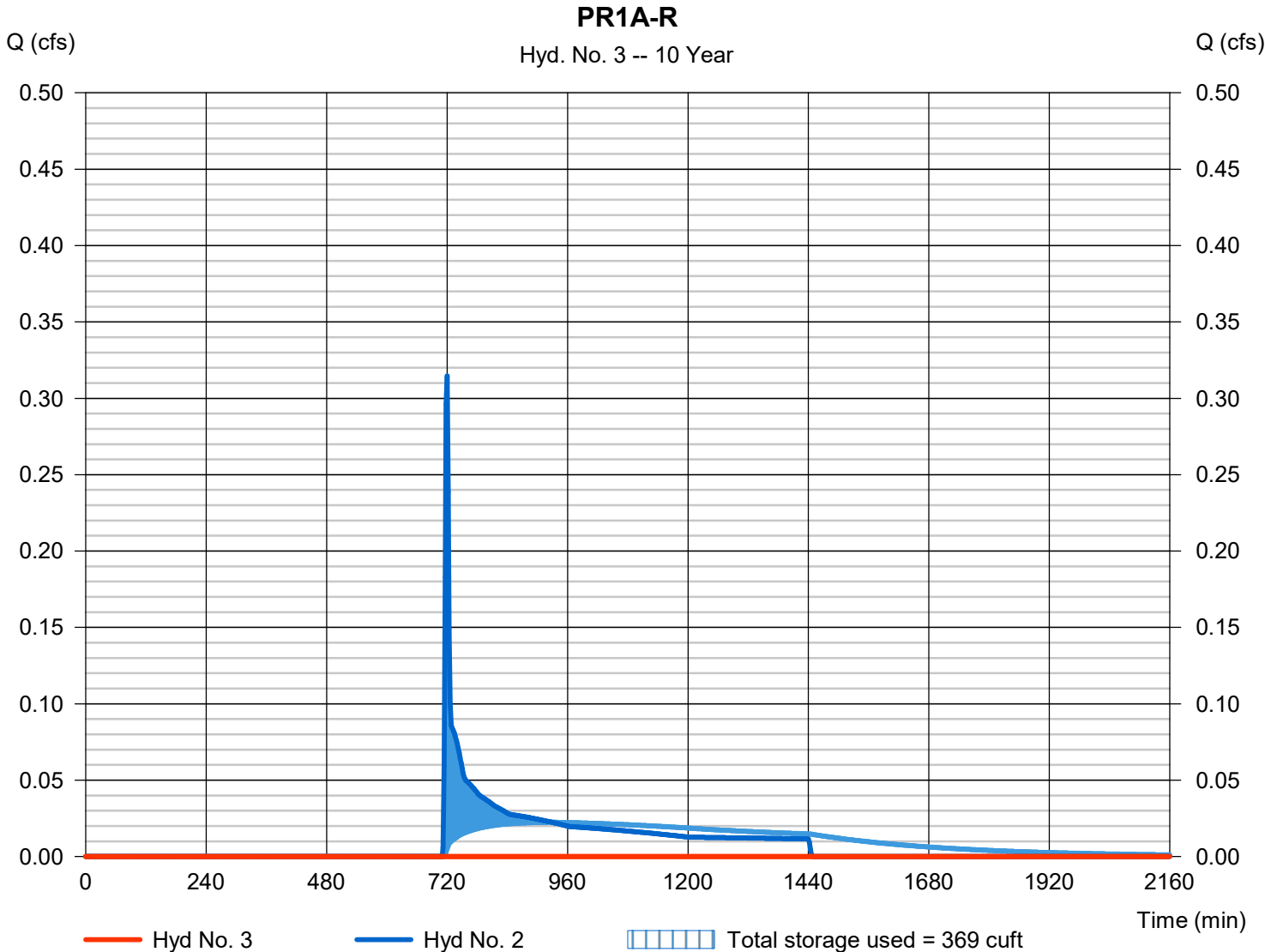
Tuesday, 08 / 9 / 2022

Hyd. No. 3

PR1A-R

Hydrograph type	= Reservoir	Peak discharge	= 0.000 cfs
Storm frequency	= 10 yrs	Time to peak	= 774 min
Time interval	= 2 min	Hyd. volume	= 0 cuft
Inflow hyd. No.	= 2 - PR1A	Max. Elevation	= 511.45 ft
Reservoir name	= Basin1	Max. Storage	= 369 cuft

Storage Indication method used. Exfiltration extracted from Outflow.



Hydrograph Report

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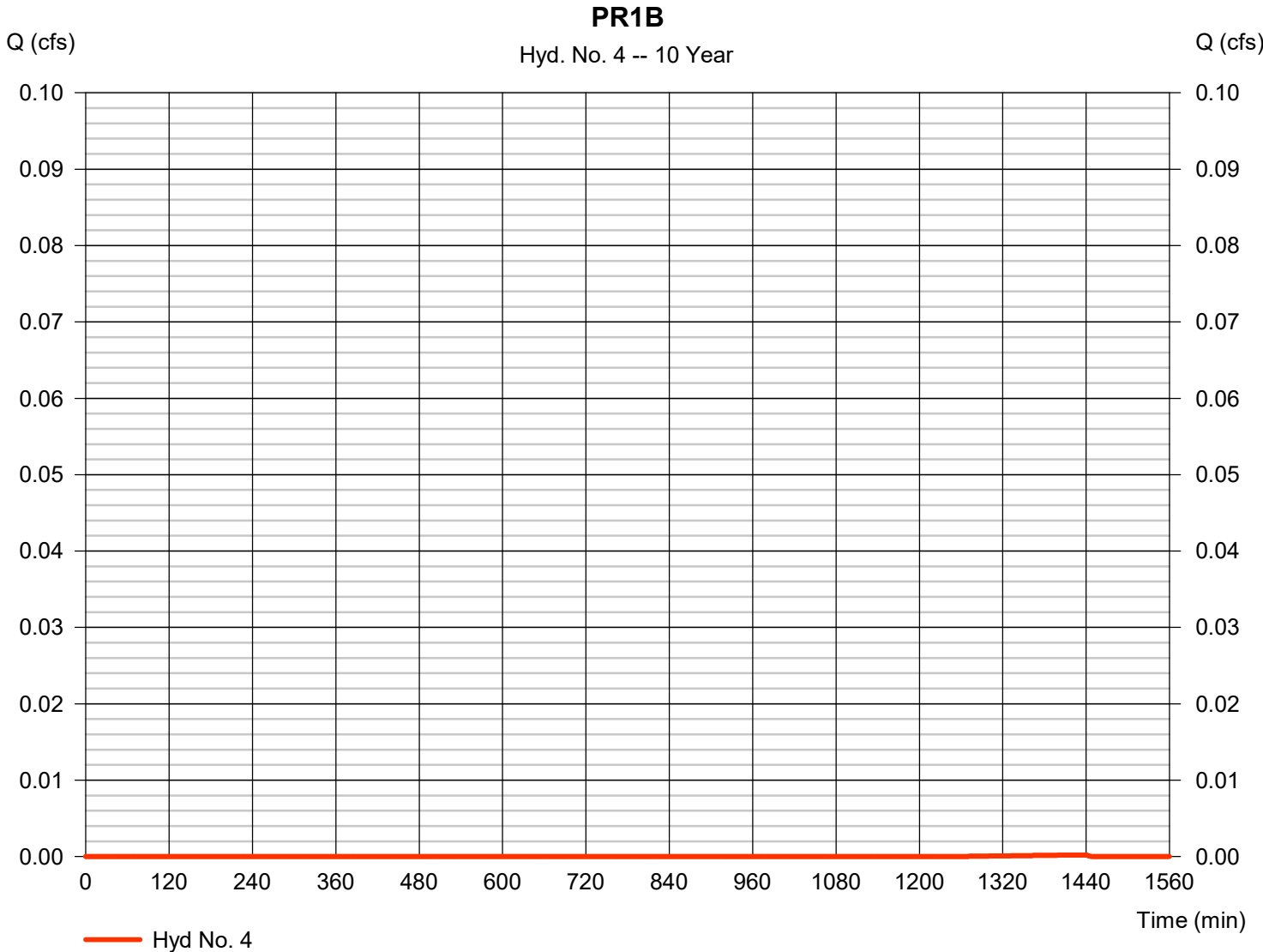
Tuesday, 08 / 9 / 2022

Hyd. No. 4

PR1B

Hydrograph type	= SCS Runoff	Peak discharge	= 0.000 cfs
Storm frequency	= 10 yrs	Time to peak	= 1440 min
Time interval	= 2 min	Hyd. volume	= 1 cuft
Drainage area	= 0.400 ac	Curve number	= 39*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 3.25 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(0.400 x 39)] / 0.400



Hydrograph Report

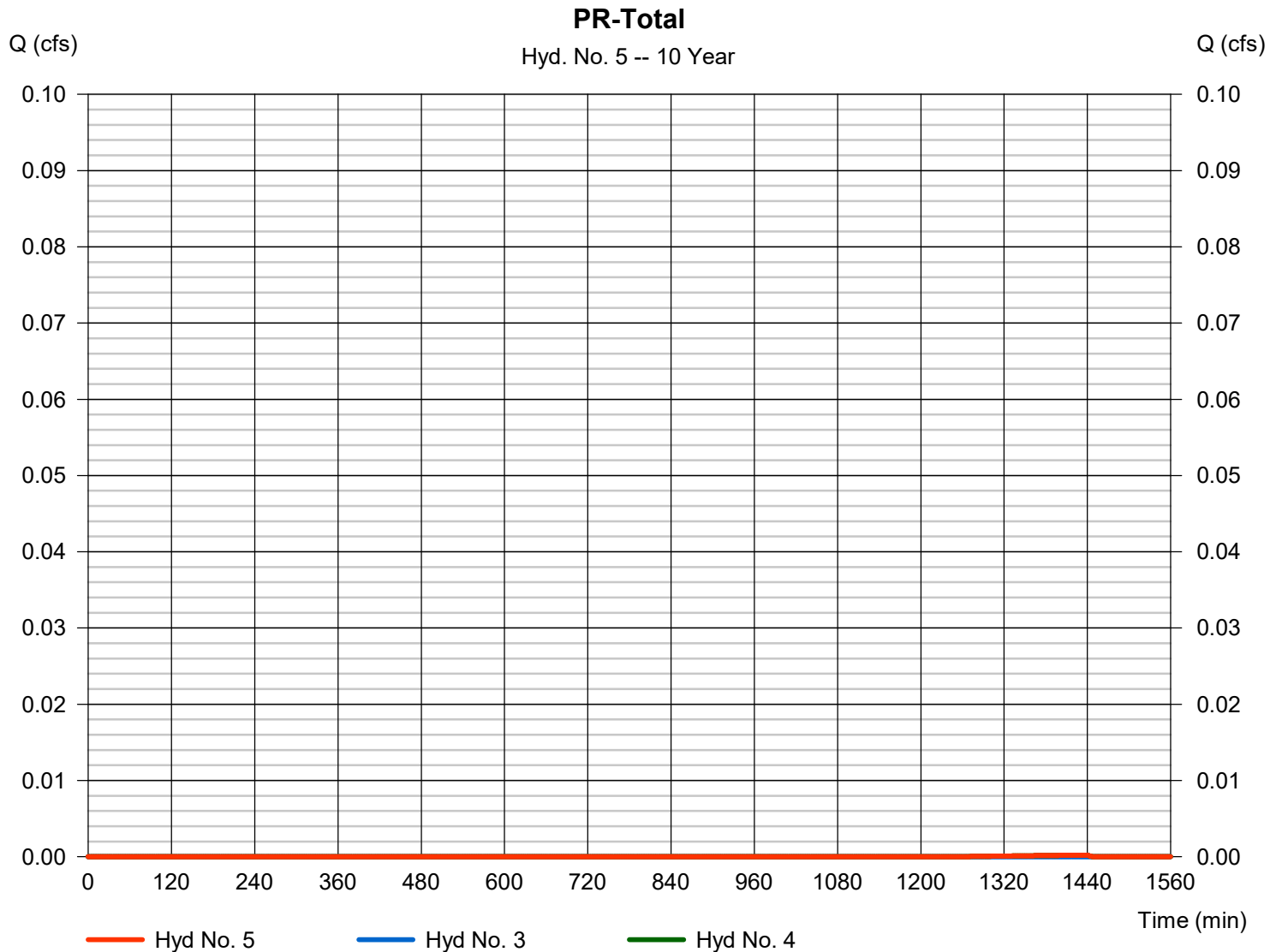
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Hyd. No. 5

PR-Total

Hydrograph type	= Combine	Peak discharge	= 0.000 cfs
Storm frequency	= 10 yrs	Time to peak	= 1440 min
Time interval	= 2 min	Hyd. volume	= 1 cuft
Inflow hyds.	= 3, 4	Contrib. drain. area	= 0.400 ac



Hydrograph Report

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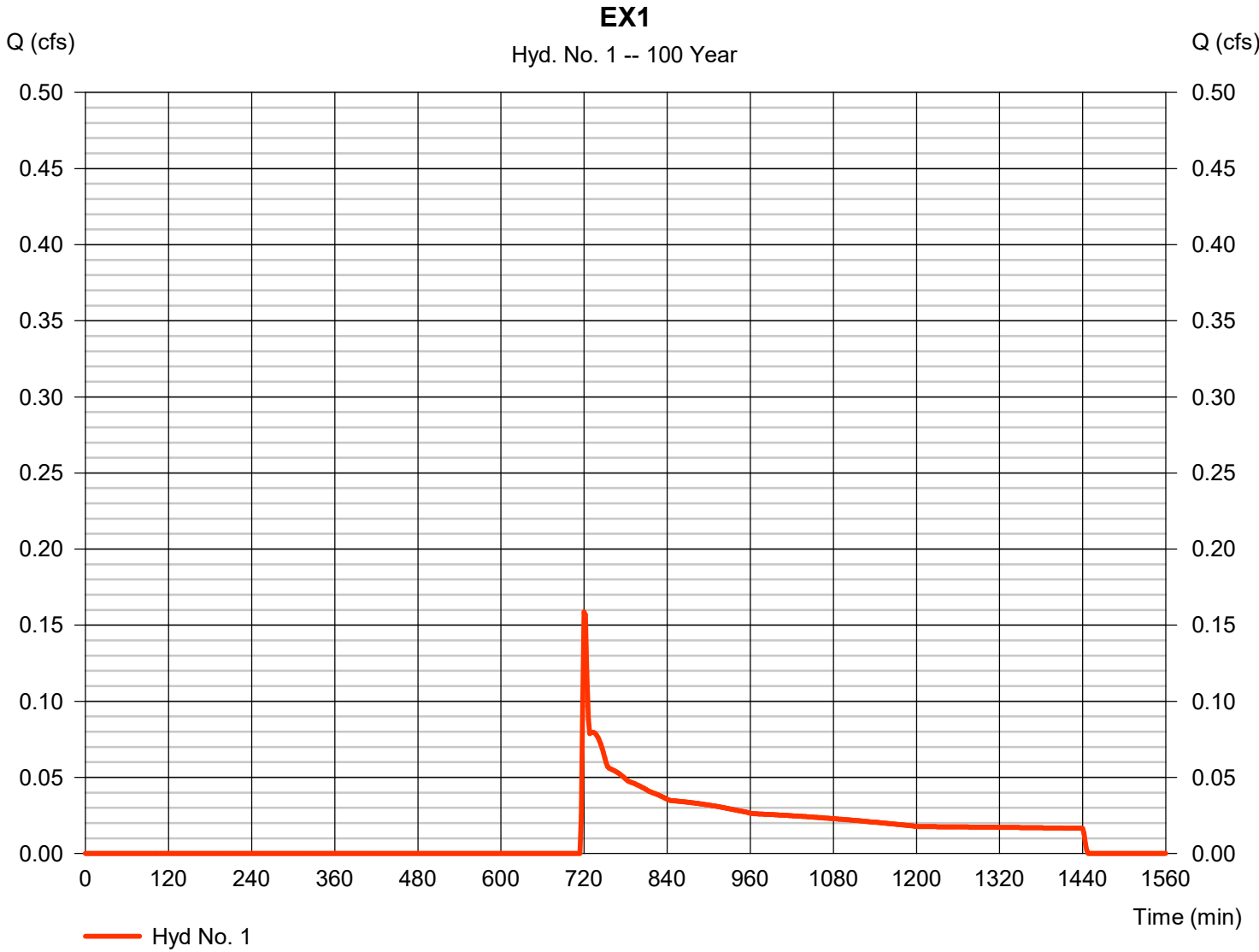
Tuesday, 08 / 9 / 2022

Hyd. No. 1

EX1

Hydrograph type	= SCS Runoff	Peak discharge	= 0.159 cfs
Storm frequency	= 100 yrs	Time to peak	= 720 min
Time interval	= 2 min	Hyd. volume	= 1,232 cuft
Drainage area	= 1.460 ac	Curve number	= 44*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 4.45 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(1.140 x 39) + (0.320 x 61)] / 1.460



Hydrograph Report

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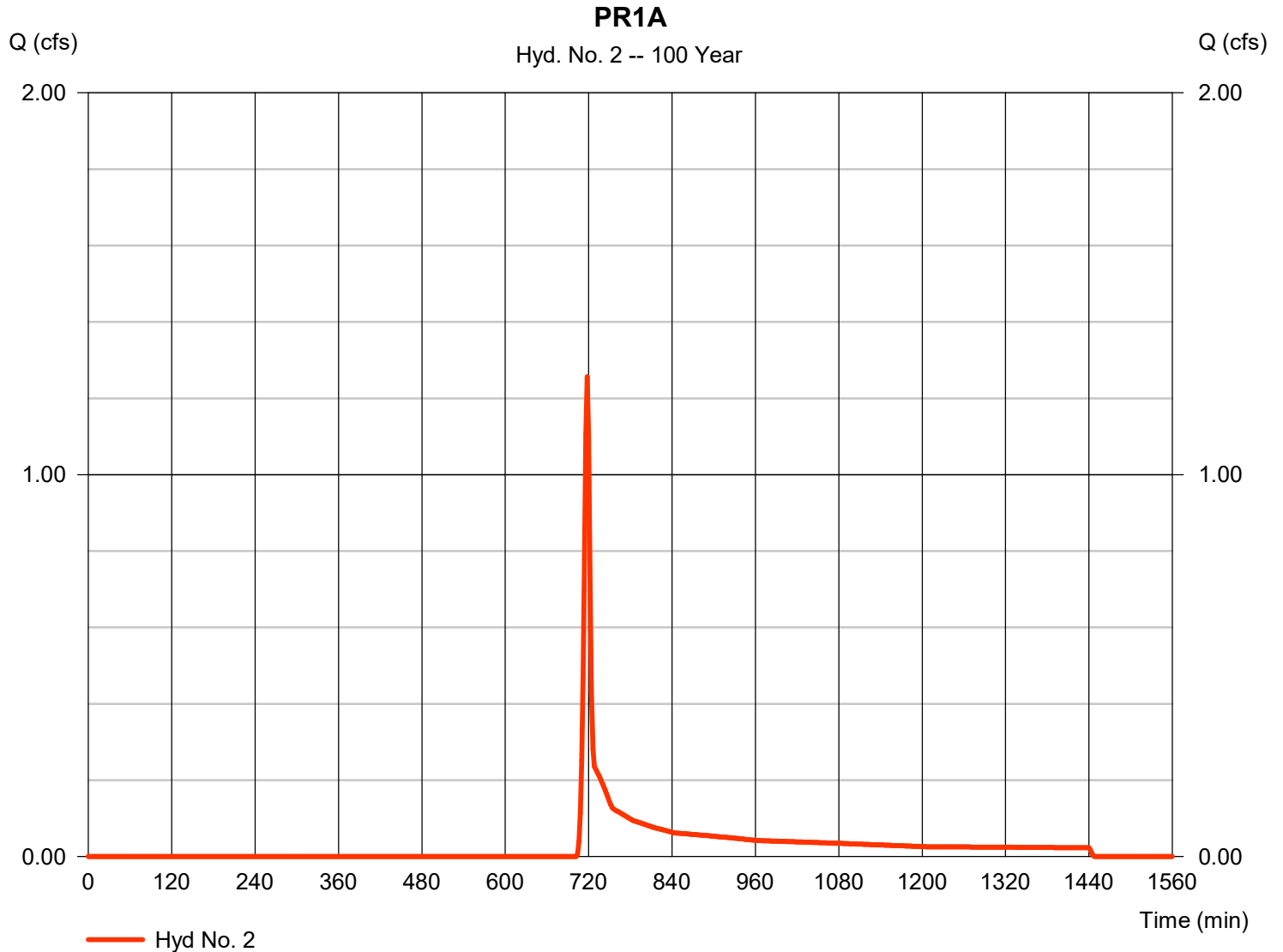
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Hyd. No. 2

PR1A

Hydrograph type	= SCS Runoff	Peak discharge	= 1.257 cfs
Storm frequency	= 100 yrs	Time to peak	= 718 min
Time interval	= 2 min	Hyd. volume	= 2,784 cuft
Drainage area	= 1.060 ac	Curve number	= 56*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 4.45 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(0.300 x 98) + (0.760 x 39)] / 1.060



Hydrograph Report

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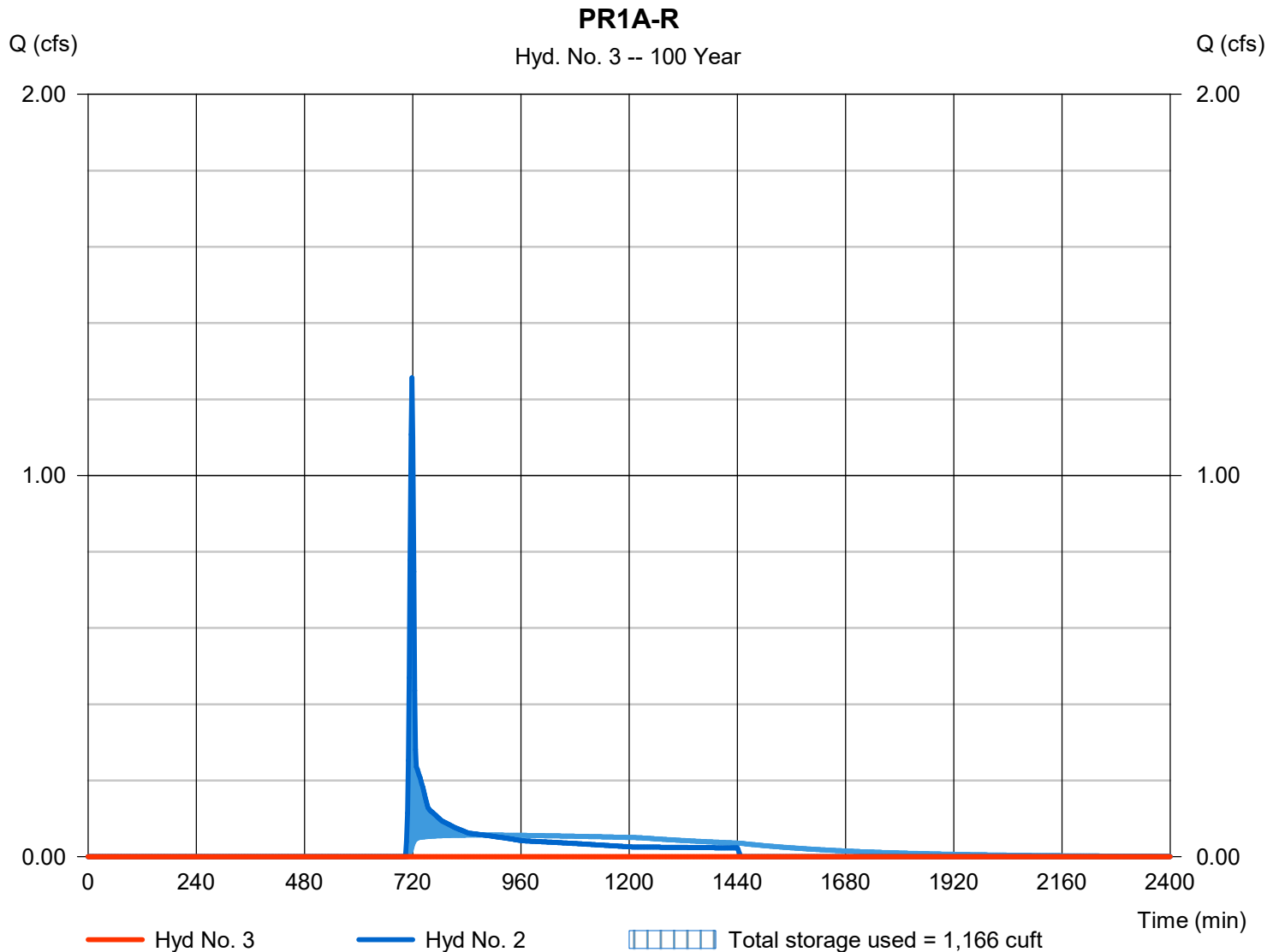
Tuesday, 08 / 9 / 2022

Hyd. No. 3

PR1A-R

Hydrograph type	= Reservoir	Peak discharge	= 0.000 cfs
Storm frequency	= 100 yrs	Time to peak	= 1504 min
Time interval	= 2 min	Hyd. volume	= 0 cuft
Inflow hyd. No.	= 2 - PR1A	Max. Elevation	= 512.25 ft
Reservoir name	= Basin1	Max. Storage	= 1,166 cuft

Storage Indication method used. Exfiltration extracted from Outflow.



Hydrograph Report

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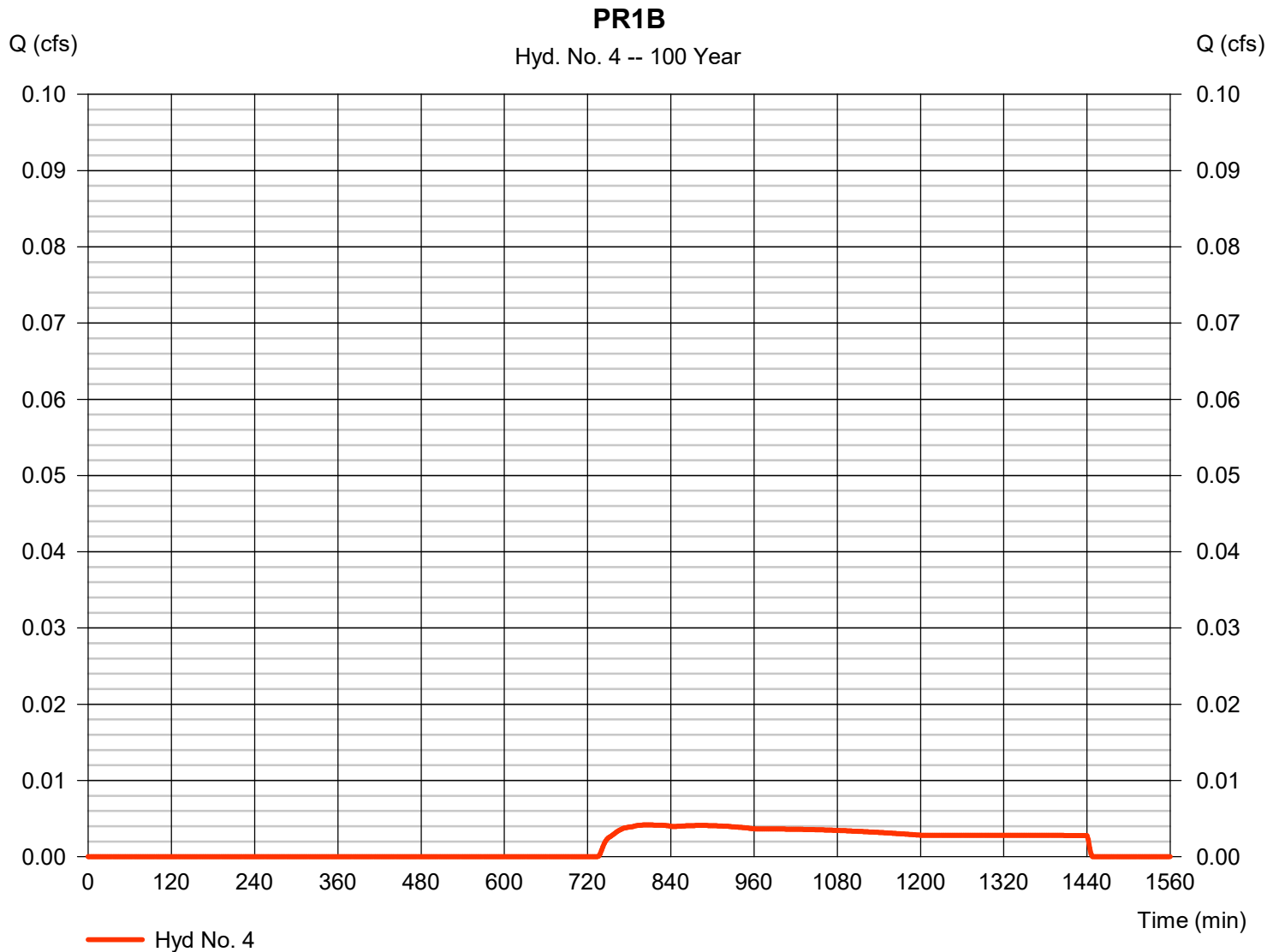
Tuesday, 08 / 9 / 2022

Hyd. No. 4

PR1B

Hydrograph type	= SCS Runoff	Peak discharge	= 0.004 cfs
Storm frequency	= 100 yrs	Time to peak	= 806 min
Time interval	= 2 min	Hyd. volume	= 140 cuft
Drainage area	= 0.400 ac	Curve number	= 39*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.00 min
Total precip.	= 4.45 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(0.400 x 39)] / 0.400



Hydrograph Report

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Hyd. No. 5

PR-Total

Hydrograph type	= Combine	Peak discharge	= 0.004 cfs
Storm frequency	= 100 yrs	Time to peak	= 806 min
Time interval	= 2 min	Hyd. volume	= 140 cuft
Inflow hyds.	= 3, 4	Contrib. drain. area	= 0.400 ac

