# TOWN OF CAIRO WATER SYSTEM IMPROVEMENTS

# PRELIMINARY ENGINEERING REPORT IN SUPPORT OF DWSRF APPLICATION

Prepared for:

# The Town of Cairo

512 Main Street, P.O. Box 728 Cairo, New York 12413

Prepared by:



May 17. 2024

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### 1.0 Introduction

The Town of Cairo currently supplies water to 782 customers in the water district. The Cairo Water District is shown on Figure 1. In 1991 the Town undertook a large-scale improvement project, the focus of which was switching from an unfiltered surface water source to wells for the District's source of supply in response to the Surface Water Treatment Rule. In 1998 this project was extended to include construction of a second source of supply using wells located at the old Water Company Reservoir. Unfortunately, the geologic conditions beneath the Town of Cairo and westward though Durham pose significant difficulties in development of larger municipal well fields.

In 2017-19 the Town secured funding through EFC and completed additional improvements to the water system including:

- 1. Replacement of the old 350,000-gallon water tank with a new 300,000-gallon gall-lined tank 80-ft high,
- 2. Replacement of Water Mains, and
- 3. Construction of a new well near the existing Park Well.

When the project was bid for construction, there was not sufficient funds to replace water mains on Jerome and Phelps Avenue, which are frequently subject to breaks, which in turn aggravates the water capacity limitations. In addition, it appears that not enough aggregate was placed around the well to make the intended hydraulic connection between the stream and the well.

The funds were insufficient to replace one section of water main, which unfortunately is the oldest and increasingly subject to leakage, which exacerbates the water supply limitations and affects the entire District water supply.

# 2.0 EXISTING WATER SYSTEM

The District's original water supply came directly from surface water (the Reservoir) and the water was used without filtration. In 1991 the Town abandoned use of the reservoir and began to rely instead on wells. Water storage wass provided by a 350,000-gallon tank. Much of the water system has been rebuilt within the past 20-years and old cast iron pipe was replaced with new PVC pipe. Leakage from the two remaining old cast iron lines remains a significant problem.

# 2.1 Sources of Water Supply

The Town of Cairo historically relied on surface water sources south and west of the hamlet since the water system was first built in or around 1898. In 1991 the Town acquired the Cairo Water Company, and installed a caisson well in the Town Park and ceased use of the reservoir. The Park Well (also referred to as Well No. 1 and Well No. 2 since it is equipped with two pumps) is permitted for 216,000 gallons per day (GPD).

The caisson is fed by radial collector(s), typically produces high quality water and, despite its shallow depth and proximity to the Shinglekill has been determined by DOH to not be surface water influenced.

To provide a back-up source of water two new wells were drilled on land owned by the Town at the old Reservoir. These wells (No. 3 and No. 4) have significant water quality problems which have prevented them from being integrated into the routine operations of the water system since 1998.

Well No. 3 is an eight-inch well drilled in 1998 to a depth of 300-ft. This well was tested and permitted at a flow of 144,000-GPD. Well water is chlorinated and receives no further treatment. The well water contains sulfur, iron, manganese, and methane in amounts that make water unusable as a supply.

Well No. 4 is an eight-inch well drilled in 2006 to a depth of 540-feet. The well does not appear to have been subjected to a full scale 72-hour pumping test and there is no record of a full analysis for Part 5 pollutants being conducted. In 2009 a pumping steptest was completed to assess yield and quality and the well was found to also contain iron and manganese above the MCL.

The 2019 project constructed a new well at the Park to supplement the water supply. That well appears to yield less than intended and means to increase the yield there are still being investigated.

# 2.2 Transmission, Distribution and Storage

Much of the water distribution piping system was replaced in the 1990s with new PVC water mains. There are several streets (Railroad, Grove, Bross, Schmidt and Ross) which still have 4-inch or smaller cast iron main which poses continuing problems due to leakage. It also appears that many of the old water service lines were not replaced to the curb stop at the time the new main was put in on Main Street. Since this street is a heavily trafficked street with significant streetscape improvements, curb and sidewalks replacement of those service lines will be costly and disruptive at this time.

The Park Wells pump directly into the collection system to meet demand and maintain the tank level. Water storage is provided by a new 300,000-gallon glass lined steel tank located on Klingermann Drive, off Main Street at the western end of the District. The tank was constructed in 2009. Water mains were also replaced on Bross Street, Railroad Avenue an Grove Street. The EFC project funding was insufficient fund to complete Jerome Avenue (C.R. 41, also known as Lame Mills Road) and Phelps Avenue. Jerome Avenue is the oldest cast iron main left in the distribution system and has a history of water breaks and leaks which may have become more frequent due to the increase in pressure from the new taller water tank.

### 2.3 TREATMENT

At Angello Canna Park, the Well #1 and the new Well #2 are treated using NSF rated positive filters for GWUDI and disinfected using sodium hypochlorite injection. The well near the Old Reservoir is equipped with a separate chlorine disinfection system. In the Park, contact time is provided by oversized pipe after both pump houses which provides more than 10-minutes of contact time before reaching the first customer.

# 2.4 SERVICE AREA AND CUSTOMERS

The water service is concentrated in the central business area of Cairo along Main Street. Currently water service is provided to 782 customers in the water district. The 2011-15 ACS Data for Census Tract 805.02, Block Group 3, Greene County, New York closely parallels the limits of the Cairo Water District (Figure 1).

The water services by type are estimated to be as follow:

		<u>Water Usage GPD</u>
Residential	70%	84,000
Commercial	20%	24,000
Institutional	10%	12,000
		120.000

# 2.5 WATER USAGE

Pumping records from the wells indicate an average day flow over the past three years of 120,000-GPD. Typical peak day flow is 240,000 GPD, however higher flows have occurred during water breaks. Water Meters with remote-read capabilities were installed as part of the EFC project.

### 3.0 PROJECT OBJECTIVES

The current project objectives include:

- 1. Installation of new 8" water main on Jerome and Phillips Avenue.
- 2. Remedial work as needed to improve hydraulic connectivity between the new Well #2 and the adjoining Shingle Kill.

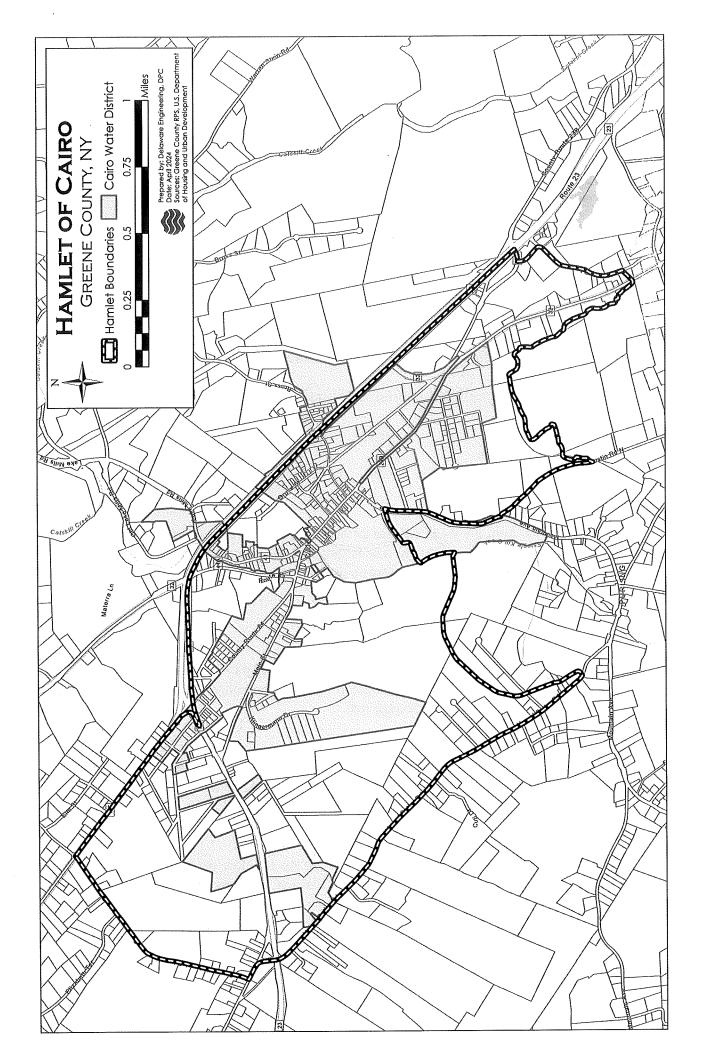
# 4.0 PROJECT READINESS

Design Plans and Bid Documents were previously prepared and approved by NYSDOH (Appendix A). And a coordinated SEQR review was complete as part of the EFC project which includes Jerome and Phillips Avenue and Well #2 (Appendix B).

## 5.0 SUMMARY AND CONCLUSION

The Town of Cairo has made significant efforts over the past few years to address water capacity issues. The remaining problems are leakage form the two oldest mains on Jerome and Phillips Avenue which, along with flow limitations on the Park wells, still pose a significant challenge for the systems overall water supply capacity.

DELAWARE ENGINEERING 3



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# BID PLANS

# WATER DISTRIBUTION UPGRADES GREENE COUNTY

**TOWN OF CAIRO** 

CONTRCT NO.2 BID PLANS NOVEMBER 2018

# TOWN BOARD MEMBERS DANIEL BENOIT, SUPERVISOR MARY JOE CORDS JASON WATTS DANIEL JOYCE

# DRAWING INDEX:

COUNTY ROUTE 41 (JEROME AVENUE) WATER PLAN & PROFILE COUNTY ROUTE 41 (JEROME AVENUE) WATER PLAN & PROFILE GENERAL NOTES AND LEGEND

GARY WARNER

COUNTY ROUTE 41 (LAKE MILLS ROAD) WATER PLAN & PROFILE COUNTY ROUTE 41 (JEROME AVENUE) WATER PLAN & PROFILE COUNTY ROUTE 41 (JEROME AVENUE) WATER PLAN & PROFILE

RAILROAD AVENUE WATER PLAN & PROFILE PHELPS ROAD WATER PLAN & PROFILE

RAILROAD AVENUE WATER PLAN & PROFILE GROVE STREET WATER PLAN & PROFILE

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BROSS STREET WATER PLAN & PROFILE

TANK REPLACEMENT PLAN

TANK ELEVATION & PROFILE VIEW TYPICAL TANK DETAIL

EROSION & SEDIMENT CONTROL DETAILS GENERAL WATER DETAIL TYPICAL DETAILS

GENERAL WATER DETAIL

PUMP STATION & WELL DETAILS

PIPE & DRAINAGE DETAIL WELL & FILTER DETAILS

MAINTENANCE AND PROTECTION OF TRAFFIC PLANS BROSS STREET CLOSURE WITH OFF SITE DETOUR

CEDINCENCIA NEW SAUSTE DEVICEMENT

NEW YORK STATE DEPARTMENT OF HEALTH BUREAU OF WATER SUPPLY PROTECTION WSRF #16257; Our Log #19819; WSA #

PROJECT LOCATION MAP DELAWARE

8 MADISON AVENUE EXTENSION, ALBANY, NY 12203 - 518.452.1290 -12 DIETZ STREET, SUITE 303, ONEONTA, NY 13820 - 607.432.8073 ENGINEERING, D.P.C. CIVIL AND ENVIRONMENTAL ENGINEERING

NEWYORK STATE
DEPARTMENT OF HEALTH
OF THE CONTROL O

# PROPOSED 12"XB" REDUCER PROPOSED GATE VALVE PROPOSED TEE LEGEND H $\mathcal{W}$

ENGINEERING' DELAWARE

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# OUTLINE SPECIFICATIONS FOR CONSTRUCTION OF WATER DISTRIBUTION SYSTEM

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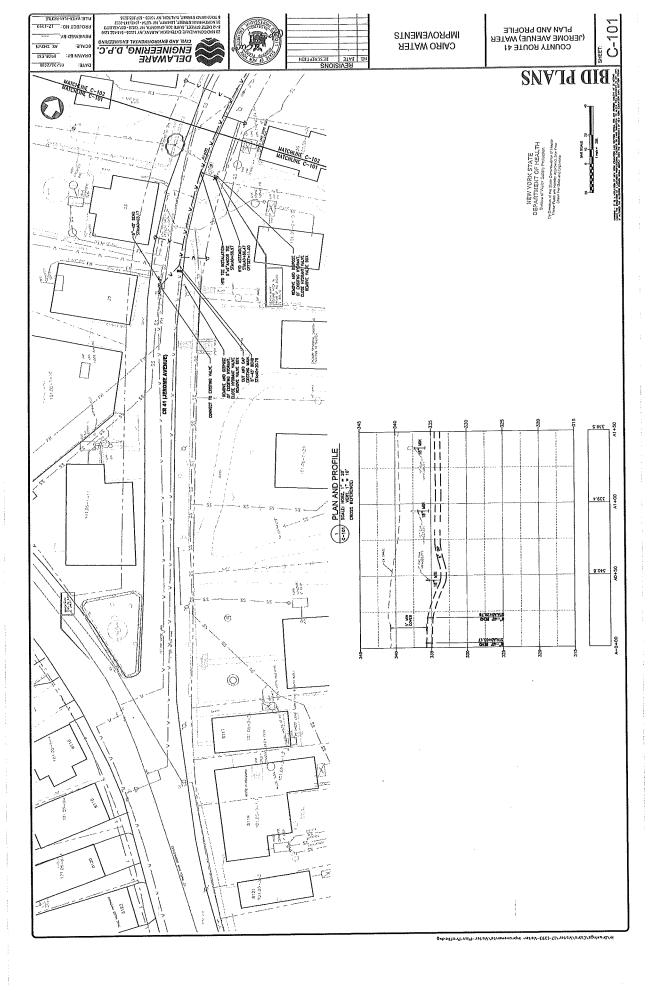
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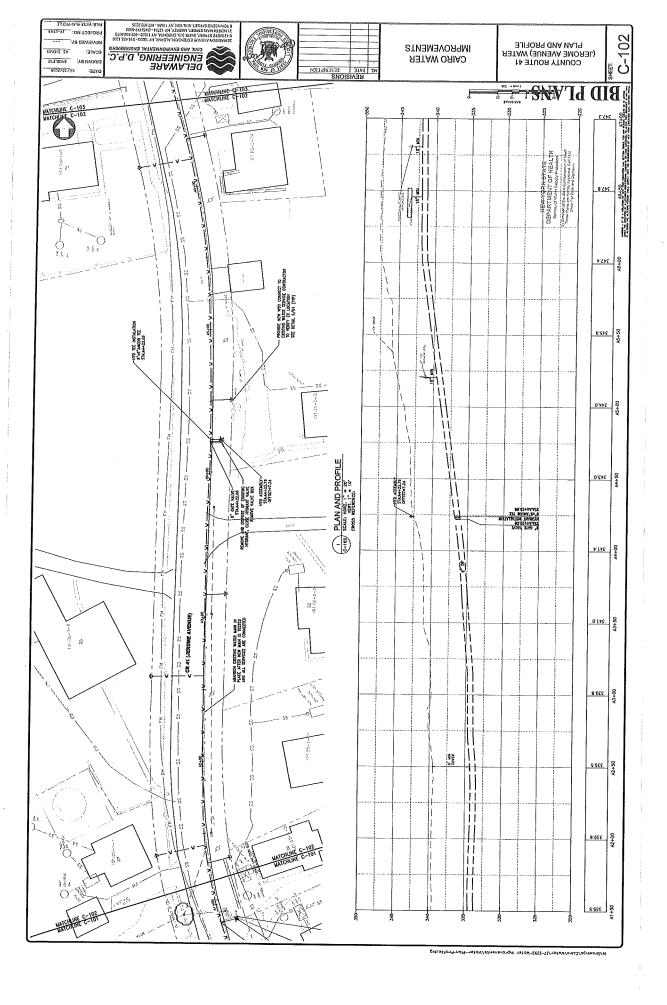
CLONLIP AL BURGLE HATERLE OF CONSTRUCTION BANL, BE REMONED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR AS PART OF THE CONTRACT WITH THE DAMES.

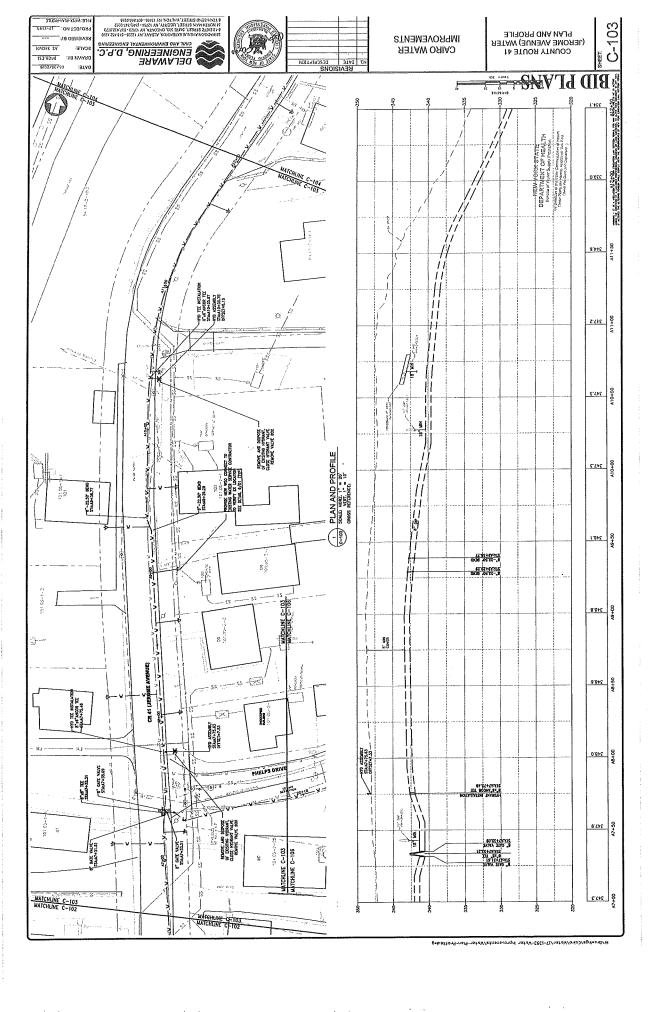
PECHTIC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTANENG ALL PERHITIS REQUIRED FOR PERFORMING WORK UNDER HIS CONTRACT, EXCEPT THAT THE WYSOCH PERHITIS, AND WETLAND PERHITIS, IF REQUIRED, WILL DE GEGLARED BY THE OWNER.

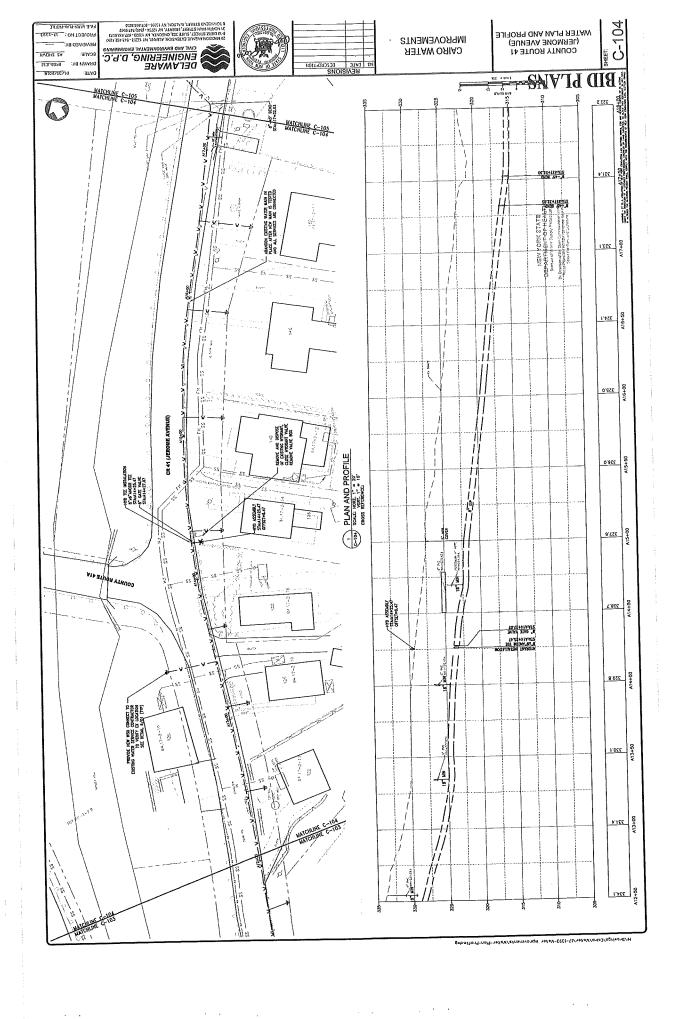
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## NOTICE OF INTENT TO SERVE AS LEAD AGENCY UNDER SEQRA

Lead Agency Must Be Designated within Thirty (30) Calendar Days

This Notice is issued pursuant to Part 617, Article 8 of the Environmental Conservation Law (State Environmental Quality Review Act) for the purpose of designating a Lead Agency for coordinated environmental quality review of the following Proposed Action:

Date:

January 4, 2016

Project Name:

Water System Improvements

Location:

Town of Cairo, Greene County

**SEORA Status:** 

Type I Action

# **Project Description:**

The Town of Cairo has been working to supplement the Town's water supply and identify additional groundwater sources along with planning for other such improvements including the following:

- 1. Improvement of disinfection capacity at the Park Well.
- 2. Improvements to decayed and leaking water tank.
- 3. Replacement of old mains and services that cause frequent leakage and breaks.
- 4. Extension of water service to insufficient yielding private wells at existing residential housing.
- 5. Installation of new meters and remote reading equipment.

The Town intends to apply for funding through the Drinking Water State Revolving Fund (DWSRF) subsidized loan to finance the engineering, administration and construction of the improvements. As such, the project will be treated as a Type I Action as required by the DWSRF program.

# Declaration of Intent to Serve as Lead Agency:

Please take notice that, under the applicable standards of Title 6 Part 617.6 NYCRR, the Cairo Town Board has concluded that this action requires a coordinated environmental review. The Town Board passed a resolution on January 4, 2016 stating their willingness to serve as lead agency.

This Notice, accompanied by the Part 1 of the Full EAF and a copy of the project description and site map, is being sent to you and all other identified involved agencies with a request for consent in writing to the Town Board serving as Lead Agency. Should you not respond within thirty (30) calendar days from the date shown above, it will be interpreted as consent that the Town Board serve as Lead Agency.

Copies of all subsequent environmental documents will be distributed to you. You will be notified of the scheduling of any related proceedings and hearings, and of any subsequent SEOR determination.

Should you not agree with the Town Board's designation as Lead Agency, please follow the procedures outlined in Title 6 Part 617.6(b) NYCRR. In addition to your consideration of Lead Agency designation, the Town Board welcomes any comments you may have regarding the Proposed Action. Receipt of these comments within thirty (30) calendar days would be appreciated.

Contact Person:

Lindsay Ostrander

(518) 452-1290 (Telephone)

Delaware Engineering, D.P.C.

(518) 452-1335 (Facsimile)

28 Madison Avenue Ext. Albany, New York 12203

# Full Environmental Assessment Form Part 1 - Project und Setting

# **Instructions for Completing Part 1**

Part 1 is to be completed by the applicant or project sponsor. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification.

Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information; indicate whether missing information does not exist, or is not reasonably available to the sponsor; and, when possible, generally describe work or studies which would be necessary to update or fully develop that information.

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

# A. Project and Sponsor Information.

***************************************	
	A CONTRACTOR OF THE CONTRACTOR
kisling and future demands. Rep sidential customers with inadequ	placement of old and obsolete pate supply.
Telephone: 518-622-3120	)
1	
State: New York	Zip Code: 12413
Telephone: 518-622-3120	)
E-Mail: supervisor@townofcalro.com	
-	
State:	Zip Code:
New York	12413
Telephone:	
E-Mail:	
State:	Zip Code:
	Telephone: 518-622-3120 E-Mail: supervisor@town  State: New York Telephone: 518-622-3120 E-Mail: supervisor@town  State: New York Telephone: 518-622-3120 E-Mail: supervisor@town

# B. Government Approvals

Government Entity	If Yes: Identify Agency and Approval(s)	1	tion Date
	Required	(Actual or	projected)
a. City Council, Town Board,   ☑Yes□No or Village Board of Trustees	Town Board Sponsors		
b. City, Town or Village ☐Yes ☑No Planning Board or Commission			And the second s
c. City Council, Town or Yes No Village Zoning Board of Appeals			
d. Other local agencies ☐Yes☑No			
e. County agencies Yes No	County Highway (Work Permit)	5/1/2017	
f. Regional agencies			
g. State agencies	DOH (Plan approval); DEC (Water Supply); EFC (Funding Agency)	3/1/2016	·
h. Federal agencies ☐Yes☐No			
ii. Is the project site located in a community iii. Is the project site within a Coastal Erosio	or the waterfront area of a Designated Inland W y with an approved Local Waterfront Revitalizat n Hazard Area?	•	☐ Yes ☑ No ☐ Yes ☑ No ☐ Yes ☑ No
C. Planning and Zoning			
C.1. Planning and zoning actions.			
<ul> <li>only approval(s) which must be granted to ena</li> <li>If Yes, complete sections C, F and G.</li> </ul>	amendment of a plan, local law, ordinance, rule of ble the proposed action to proceed? mplete all remaining sections and questions in P	-	□Yes ZNo
C.2. Adopted land use plans.	MARKET CONTRACTOR OF THE STATE		
. Do any municipally- adopted (city, town, vi where the proposed action would be located?	llage or county) comprehensive land use plan(s)	include the site	□Yes <b>☑</b> No
f Yes, does the comprehensive plan include sp yould be located?	ecific recommendations for the site where the pr	•	□Yes□No
<ul> <li>Is the site of the proposed action within any Brownfield Opportunity Area (BOA); design or other?)</li> <li>f Yes, identify the plan(s):</li> </ul>	local or regional special planning district (for ex nated State or Federal heritage area; watershed n	ample: Greenway nanagement plan;	∐Yes <b>⊠</b> No
res, identify the plants).			

C.3. Zoning	
a. Is the site of the proposed action located in a municipality with an adopted zonin If Yes, what is the zoning classification(s) including any applicable overlay district Hamlet District, Commercial Use District Residential District	ng law or ordinance. ☑ Yes□No ?
	F717 F151
b. Is the use permitted or allowed by a special or conditional use permit?	☑ Yes□No
c. Is a zoning change requested as part of the proposed action?  If Yes,  i. What is the proposed new zoning for the site?	☐ Yes <b>Z</b> No
C.4. Existing community services,	
a. In what school district is the project site located?	istrict
b. What police or other public protection forces serve the project site?  Town of Cairo Police Department	
c. Which fire protection and emergency medical services serve the project site?  Town of Cairo Ambulance, Cairo Fire Department/Cairo Hose Company, Round Top Fire Co	ompany
d. What parks serve the project site?  Angelo Canna Town Park, Dog Park, The Cairo Nature Center	
D. Project Details	
D.1. Proposed and Potential Development	
a. What is the general nature of the proposed action (e.g., residential, industrial, co- components)? Residential, Rural Residential, Commercial, Institutional, Main Street	mmercial, recreational; if mixed, include all set, Hamlet
b. a. Total acreage of the site of the proposed action?  b. Total acreage to be physically disturbed?  c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor?	2 acres 2 acres N/A acres
c. Is the proposed action an expansion of an existing project or use?  i. If Yes, what is the approximate percentage of the proposed expansion and idea square feet)?  50  Units: Wells/Wa	☑ Yes☐ No utify the units (e.g., acres, miles, housing units, ter Tank
d. Is the proposed action a subdivision, or does it include a subdivision?  If Yes,  i. Purpose or type of subdivision? (e.g., residential, industrial, commercial; if mix	
ii. Is a cluster/conservation layout proposed?  iii. Number of lots proposed?  iv. Minimum and maximum proposed lot sizes? Minimum Maxim	□Yes □No um
e. Will proposed action be constructed in multiple phases?  i. If No, anticipated period of construction:  ii. If Yes:  Total number of phases anticipated  Anticipated commencement date of phase 1 (including demolition)  Anticipated completion date of final phase  Generally describe connections or relationships among phases, including determine timing or duration of future phases:	months  month year month year any contingencies where progress of one phase may

	ct include new resid				☐Yes ✓ No
If Yes, show nun	nbers of units propo		ced to the	A 1 1 1 2 2 2 4 6 A	
	One Family	Two Family	Three Family	Multiple Family (four or more)	
Initial Phase	application .				
At completion					
of all phases	**************************************	***************************************	<del></del>		
g. Does the propo	osed action include	new non-residenti	al construction (inclu	ding expansions)?	☐Yes Z No
If Yes,			·	,- ·	tomad .
i. Total number	of structures			width; andlength	
ii. Dimensions (	in feet) of largest pr	roposed structure:	height;	width; andlength	
				square feet	
				result in the impoundment of any	□Yes ☑No
	s creation of a water	r supply, reservoir	, pond, lake, waste la	goon or other storage?	
If Yes,  i. Purpose of the	imnoundment				
i. If a water imp	oundment;	cinal source of the	water:	Ground water Surface water stream	ms Other specify:
ii. ii a watat iiip	oanamont, are prair	orpar boarde or the	-	Tolorie water Dominer water press	по Долго присту
iii. If other than v	vater, identify the ty	pe of impounded/	contained liquids and	I their source.	
iv Annrovimate	size of the proposed	1 impoundment	Volume:	million gallons: surface area:	acres
v. Dimensions o	f the proposed dam	or impounding str	ucture:	million gallons; surface area:height;length	au co
vi. Construction	method/materials fo	or the proposed da	m or impounding str	ucture (e.g., earth fill, rock, wood, con-	crete):
Concrete and	wood				<u> </u>
D.2. Project Op					
				iring construction, operations, or both?	☐ Yes ☑ No
		tion, grading or in	stallation of utilities	or foundations where all excavated	
materials will r	emain onsite)				
If Yes:	rpose of the excava	tion or dradaina?			
ii How much ma	n pose or me excava terial (including roc	k earth sediment	s_etc.) is proposed to	be removed from the site?	
	at divination a Palman	,			
ili. Describe natur	re and characteristic	s of materials to b	e excavated or dredg	ed, and plans to use, manage or dispose	e of them.
in Will there he	onsite dewatering o	r properties of av	covered meterials?	· · · · · · · · · · · · · · · · · · ·	Yes No
	be.				
11 ) 20, 44001.	***			NAME OF THE PROPERTY OF THE PR	
v. What is the to	tal area to be dredge	ed or excavated?		acres	
vi. What is the m	aximum area to be	worked at any one		acres	
			or dredging?	feet	,
	vation require blast				☐Yes ☐No
ix. Summarize sit	e reclamation goals	and plan:			
h Wand the war	aged estion source	reposit in alteration	on of increase or do	crease in size of, or encroachment	☐Yes <b>Z</b> No
			on or, increase or dec ch or adjacent area?	rease in Size of, or encroachment	T rest Inn
If Yes:		, , 0.10, 011110, 000			
	etland or waterbody	y which would be	affected (by name, w	rater index number, wetland map numb	er or geographic
			-		

ii. Describe how the proposed action would affect that waterbody or wetland, e.g. excavation, fill, placement of structures, or alteration of channels, banks and shorelines. Indicate extent of activities, alterations and additions in square feet or acres:		
iii. Will proposed action cause or result in disturbance to bottom sediments?  If Yes, describe:	☐ Yes ☐ No	
iv. Will proposed action cause or result in the destruction or removal of aquatic vegetation?  If Yes:	□Yes□No	
acres of aquatic vegetation proposed to be removed:		
purpose of proposed removal (e.g. beach clearing, invasive species control, boat access):		
proposed method of plant removal:		
if chemical/herbicide treatment will be used, specify product(s):		
v. Describe any proposed reclamation/mitigation following disturbance:		
c. Will the proposed action use, or create a new demand for water?  If Yes:	<b>Z</b> Yes □No	
i. Total anticipated water usage/demand per day: 6000 gallons/day	•	
ii. Will the proposed action obtain water from an existing public water supply?	✓ Yes   No	
If Yes;		
Name of district or service area: Cairo Water District		
Does the existing public water supply have capacity to serve the proposal?  In the proposal this proposal to be a supply for the proposal to be a supply	✓ Yes No	
Is the project site in the existing district?  In a project site in the existing district?	☐ Yes ☑ No	
<ul> <li>Is expansion of the district needed?</li> <li>Do existing lines serve the project site?</li> </ul>	✓ Yes No ✓ Yes No	
<ul> <li>Do existing lines serve the project site?</li> <li>iii. Will line extension within an existing district be necessary to supply the project?</li> </ul>		
If Yes:	<b>☑</b> Yes <b>□</b> No	
Describe extensions or capacity expansions proposed to serve this project:		
Extension of water service are and connection of residential customers with inadequate supply.		
Source(s) of supply for the district: Existing water supply wells.		
iv. Is a new water supply district or service area proposed to be formed to serve the project site?  If, Yes:	☐ Yes ZNo	
Applicant/sponsor for new district: Town of Cairo		
Date application submitted or anticipated: 6/1/2016		
Proposed source(s) of supply for new district: Town of Cairo		
v. If a public water supply will not be used, describe plans to provide water supply for the project;		
vi. If water supply will be from wells (public or private), maximum pumping capacity:4 gallons/mix	nute.	
d. Will the proposed action generate liquid wastes?  If Yes:	☐ Yes <b>Z</b> No	
i. Total anticipated liquid waste generation per day: gallons/day		
ii. Nature of liquid wastes to be generated (e.g., sanitary wastewater, industrial; if combination, describe al	l components and	
approximate volumes or proportions of each):		
iii. Will the proposed action use any existing public wastewater treatment facilities? If Yes:	☐ Yes <b>Z</b> No	
Name of wastewater treatment plant to be used:		
Name of district:		
<ul> <li>Does the existing wastewater treatment plant have capacity to serve the project?</li> </ul>	☐Yes ☐No	
Is the project site in the existing district?	☐ Yes ☐ No	
• Is expansion of the district needed?	☐ Yes ☐ No	

Do existing sewer lines serve the project site?	□Yes □No
<ul> <li>Will line extension within an existing district be necessary to serve the project?</li> </ul>	☐ Yes ☐ No
If Yes:	
Describe extensions or capacity expansions proposed to serve this project:	·
in Will a new wentawater (gaylogo) treatment district he formal to the incidence of the control	)
iv. Will a new wastewater (sewage) treatment district be formed to serve the project site?  If Yes:	□Yes□No
Date application submitted or anticipated:	
What is the receiving water for the wastewater discharge?	The state of the s
<ul> <li>What is the receiving water for the wastewater discharge?</li> <li>v. If public facilities will not be used, describe plans to provide wastewater treatment for the project, including spe receiving water (name and classification if surface discharge, or describe subsurface disposal plans):</li> </ul>	cifying proposed
vi. Describe any plans or designs to capture, recycle or reuse liquid waste:	
W21 d	
e. Will the proposed action disturb more than one acre and create stormwater runoff, either from new point sources (i.e. ditches, pipes, swales, curbs, gutters or other concentrated flows of stormwater) or non-point source (i.e. sheet flow) during construction or post construction? If Yes:	∐Yes <b>Z</b> INo
i. How much impervious surface will the project create in relation to total size of project parcel?	
Square feet or acres (impervious surface) Square feet or acres (parcel size)	
ii. Describe types of new point sources.	
iii. Where will the stormwater runoff be directed (i.e. on-site stormwater management facility/structures, adjacent p groundwater, on-site surface water or off-site surface waters)?	properties,
If to surface waters, identify receiving water bodies or wetlands:	
Will stormwater runoff flow to adjacent properties?  iv. Does proposed plan minimize impervious surfaces, use pervious materials or collect and re-use stormwater?	□Yes□No □Yes□No
f. Does the proposed action include, or will it use on-site, one or more sources of air emissions, including fuel combustion, waste incineration, or other processes or operations?	□Yes ☑No
If Yes, identify:	
i. Mobile sources during project operations (e.g., heavy equipment, fleet or delivery vehicles)	ı
ii. Stationary sources during construction (e.g., power generation, structural heating, batch plant, crushers)	:
iii. Stationary sources during operations (e.g., process emissions, large boilers, electric generation)	
g. Will any air emission sources named in D.2.f (above), require a NY State Air Registration, Air Facility Permit, or Federal Clean Air Act Title IV or Title V Permit?	□Yes <b>Z</b> No
of rederal Clean Air Act Title IV or Title V Permit?  If Yes:	
Is the project site located in an Air quality non-attainment area? (Area routinely or periodically fails to meet	□Yes□No
ambient air quality standards for all or some parts of the year)	Ti rating
ii. In addition to emissions as calculated in the application, the project will generate:	
•Tons/year (short tons) of Carbon Dioxide (CO <sub>2</sub> )	
• Tons/year (short tons) of Nitrous Oxide (N2O)	
<ul> <li>Tons/year (short tons) of Perfluorocarbons (PFCs)</li> </ul>	
Tons/year (short tons) of Sulfur Hexafluoride (SF <sub>6</sub> )	
<ul> <li>Tons/year (short tons) of Carbon Dioxide equivalent of Hydroflourocarbons (HFCs)</li> </ul>	
<ul> <li>Tons/year (short tons) of Hazardous Air Pollutants (HAPs)</li> </ul>	

h. Will the proposed action generate or emit methane (including, but not limited to, sewage treatment plants, landfills, composting facilities)?  If Yes:	∐Yes <b>⊘</b> No
<ul> <li>i. Estimate methane generation in tons/year (metric):</li> <li>ii. Describe any methane capture, control or elimination measures included in project design (e.g., combustion to generation);</li> </ul>	enerate heat or
i. Will the proposed action result in the release of air pollutants from open-air operations or processes, such as quarry or landfill operations?  If Yes: Describe operations and nature of emissions (e.g., diesel exhaust, rock particulates/dust):	∐Yes ☑ No
j. Will the proposed action result in a substantial increase in traffic above present levels or generate substantial new demand for transportation facilities or services?  If Yes:  i. When is the peak traffic expected (Check all that apply):	Yes_No
<ul> <li>vi. Are public/private transportation service(s) or facilities available within ½ mile of the proposed site?</li> <li>vii Will the proposed action include access to public transportation or accommodations for use of hybrid, electric or other alternative fueled vehicles?</li> <li>viii. Will the proposed action include plans for pedestrian or bicycle accommodations for connections to existing pedestrian or bicycle routes?</li> </ul>	☐Yes☐No ☐Yes☐No ☐Yes☐No
<ul> <li>k. Will the proposed action (for commercial or industrial projects only) generate new or additional demand for energy?</li> <li>If Yes: <ul> <li>i. Estimate annual electricity demand during operation of the proposed action:</li> <li>ii. Anticipated sources/suppliers of electricity for the project (e.g., on-site combustion, on-site renewable, via grid/lo other):</li> </ul> </li> </ul>	
iii. Will the proposed action require a new, or an upgrade to, an existing substation?	□Yes□No
I. Hours of operation. Answer all items which apply. ii. During Operations:   i. During Construction: ii. During Operations:   ii. During Operations: WTP operated 24/   iii. During Operations: WT	7

<ul> <li>m. Will the proposed action produce noise that will exceed existing ambient noise levels duri operation, or both?</li> <li>If yes:</li> <li>i. Provide details including sources, time of day and duration:</li> </ul>	ng construction, ☐ Yes ☑ No
ii. Will proposed action remove existing natural barriers that could act as a noise barrier or so Describe:	reen?
<ul> <li>n Will the proposed action have outdoor lighting?</li> <li>If yes: <ul> <li>i. Describe source(s), location(s), height of fixture(s), direction/aim, and proximity to nearest</li> </ul> </li> </ul>	☐ Yes ☑ No occupied structures:
ii. Will proposed action remove existing natural barriers that could act as a light barrier or scr Describe:	een? Yes No
o. Does the proposed action have the potential to produce odors for more than one hour per da If Yes, describe possible sources, potential frequency and duration of odor emissions, and occupied structures:	y? ☐ Yes ☑ No proximity to nearest
p. Will the proposed action include any bulk storage of petroleum (combined capacity of over or chemical products 185 gallons in above ground storage or any amount in underground st If Yes:  i. Product(s) to be stored  ii. Volume(s) per unit time (e.g., month, year)  iii. Generally describe proposed storage facilities:	orage?
<ul> <li>q. Will the proposed action (commercial, industrial and recreational projects only) use pesticid insecticides) during construction or operation?</li> <li>If Yes: <ul> <li>i. Describe proposed treatment(s):</li> </ul> </li> </ul>	es (i.e., herbicides, Yes ZNo
Will the proposed action use Integrated Pest Management Practices?  r. Will the proposed action (commercial or industrial projects only) involve or require the management.	☐ Yes ☐ No agement or disposal ☐ Yes ☑ No
of solid waste (excluding hazardous materials)?  If Yes:  i. Describe any solid waste(s) to be generated during construction or operation of the facility:  • Construction: tons per (unit of time)  • Operation: tons per (unit of time)  ii. Describe any proposals for on-site minimization, recycling or reuse of materials to avoid dispersions:	isposal as solid waste:
Operation:  iii. Proposed disposal methods/facilities for solid waste generated on-site:	
Construction:     Operation:	

s. Does the proposed action include construction or mod	ification of a solid waste mana	gement facility?	Yes 🗸 No	
If Yes:				
i. Type of management or handling of waste proposed for the site (e.g., recycling or transfer station, composting, landfill, or				
other disposal activities):  ii. Anticipated rate of disposal/processing:				
Tons/month, if transfer or other non-	combustion/thermal treatment	. or		
Tons/hour, if combustion or thermal		, 0.		
iii. If landfill, anticipated site life:	years			
t. Will proposed action at the site involve the commercia	generation treatment storage	e. or disposal of hazardous	Yes No	
waste?	. 5511012111011, 110111111111111111111111111	o, o. o.opoo		
If Yes:				
i. Name(s) of all hazardous wastes or constituents to be	e generated, handled or manag	ed at facility:		
ii. Generally describe processes or activities involving h	nazardoue wastes or constituer	ıta.	<u>,,</u>	
in Generally desertoe processes of dentities involving i	mzardous wastes or constituer			
iii. Specify amount to be handled or generated to	ons/month			
iv. Describe any proposals for on-site minimization, rec	ycling or reuse of hazardous o	onstituents:		
v. Will any hazardous wastes be disposed at an existing	offsite hazardous waste facili	ity?	□Yes□No	
If Yes: provide name and location of facility:	,			
If No: describe proposed management of any hazardous	wastes which will not be sent	to a hazardous waste facilit	y:	
E. Site and Setting of Proposed Action				
E.1. Land uses on and surrounding the project site				
a. Existing land uses.				
i. Check all uses that occur on, adjoining and near the	project site.			
<ul> <li>✓ Urban</li> <li>☐ Industrial</li> <li>✓ Commercial</li> <li>✓ Resid</li> <li>☐ Forest</li> <li>☐ Agriculture</li> <li>☐ Aquatic</li> <li>☐ Other</li> </ul>				
ii. If mix of uses, generally describe:	(specity).			
m. If the of abos, generally absorber				
b. Land uses and covertypes on the project site.				
Land use or	Current	Acreage After	Change	
Covertype	Acreage	Project Completion	(Acres +/-)	
Roads, buildings, and other paved or impervious	:			
surfaces	1.15	1.15	0	
Forested	0	0	N/A	
Meadows, grasslands or brushlands (non-	0,85	0.85	0	
agricultural, including abandoned agricultural)	0,00	0.00	<u> </u>	
Agricultural	0	0	N/A	
(includes active orchards, field, greenhouse etc.)				
Surface water features	0 .	0	N/A	
(lakes, ponds, streams, rivers, etc.)	-		\$174	
Wetlands (freshwater or tidal)	0	0	N/A	
Non-vegetated (bare rock, earth or fill)				
Other	• Other			
Describe: New Water Supply Storage Tank	0.5	0.5	0	

c. Is the project site presently used by members of the community for public recreation?  i. If Yes: explain: The Park Well site is located in Angelo Canna Park.	<b>Z</b> Yes□No
d. Are there any facilities serving children, the elderly, people with disabilities (e.g., schools, hospitals, licensed day care centers, or group homes) within 1500 feet of the project site?  If Yes,	<b>V</b> Yes □ No
i. Identify Facilities: Cairo-Durham Elementary School	
e. Does the project site contain an existing dam? If Yes;	☐Yes <b>Z</b> No
i. Dimensions of the dam and impoundment:	
Dam height:	
a Dom langth	
• Surface area: acres	
Volume impounded: gallons OR acre-feet	
ii. Dam's existing hazard classification:	
iii. Provide date and summarize results of last inspection:	
f. Has the project site ever been used as a municipal, commercial or industrial solid waste management facility, or does the project site adjoin property which is now, or was at one time, used as a solid waste management facil If Yes:	□Yes☑No lity?
i. Has the facility been formally closed?	☐Yes☐ No
If yes, cite sources/documentation:	1 cs 140
ii. Describe the location of the project site relative to the boundaries of the solid waste management facility:	
" 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
iii. Describe any development constraints due to the prior solid waste activities:	
g. Have hazardous wastes been generated, treated and/or disposed of at the site, or does the project site adjoin property which is now or was at one time used to commercially treat, store and/or dispose of hazardous waste? If Yes:	Yes No
i. Describe waste(s) handled and waste management activities, including approximate time when activities occurre	eď:
h. Potential contamination history. Has there been a reported spill at the proposed project site, or have any remedial actions been conducted at or adjacent to the proposed site?  If Yes:	Yes No
i. Is any portion of the site listed on the NYSDEC Spills Incidents database or Environmental Site Remediation database? Check all that apply:	□Yes□No
☐ Yes – Spills Incidents database Provide DEC ID number(s):	
☐ Yes - Environmental Site Remediation database Provide DEC ID number(s): ☐ Neither database	
ii. If site has been subject of RCRA corrective activities, describe control measures:	
iii. Is the project within 2000 feet of any site in the NYSDEC Environmental Site Remediation database? If yes, provide DEC ID number(s):	□Yes□No
iv. If yes to (i), (ii) or (iii) above, describe current status of site(s):	

v. Is the project site subject to an institutional control limiting property uses?	□Yes 2No
<ul> <li>If yes, DEC site ID number:</li> <li>Describe the type of institutional control (e.g., deed restriction or easement):</li> </ul>	
Describe any use limitations:	
Describe any engineering controls:  Will the project of the institutional accordance in the project of the institutional accordance in the project of the institutional accordance in the project of	☐ Yes ☐ No
<ul> <li>Will the project affect the institutional or engineering controls in place?</li> <li>Explain:</li> </ul>	L] Yes LINO
E.2. Natural Resources On or Near Project Site	
a. What is the average depth to bedrock on the project site?	
b. Are there bedrock outcroppings on the project site?  If Yes, what proportion of the site is comprised of bedrock outcroppings?%	Yes No
c. Predominant soil type(s) present on project site: VaC - Valois gravelly loam, rolling 67.8 %	
Fu - Fluvaquents-Udifluvents comples 12.6 %  MeC - Mardin gravelly silt loam, 3-15% 11.1 %	
d. What is the average depth to the water table on the project site? Average:1.5-6 feet	
e. Drainage status of project site soils: Well Drained: 75% of site	
<ul> <li>✓ Moderately Well Drained: 12% of site</li> <li>✓ Poorly Drained 13% of site</li> </ul>	
f. Approximate proportion of proposed action site with slopes:  0-10%: 90 % of site	
<b>☐</b> 10-15%: 10 % of site	
15% or greater:% of site	
g. Are there any unique geologic features on the project site?  If Yes, describe:	☐Yes <b>Ø</b> No
h. Surface water features.	
i. Does any portion of the project site contain wetlands or other waterbodies (including streams, rivers,	<b>Z</b> Yes□No
ponds or lakes)?  ii. Do any wetlands or other waterbodies adjoin the project site? Potential new water source may be investigated in	<b>Z</b>  Yes□No
If Yes to either i or ii, continue. If No, skip to E.2.i. alluvial deposits along Catskill Creek, 863-97 B(T).	
iii. Are any of the wetlands or waterbodies within or adjoining the project site regulated by any federal,	□Yes□No
state or local agency?  iv. For each identified regulated wetland and waterbody on the project site, provide the following information:	
• Streams: Name 863-172 (Shingle Kill), 863-175, 863-182, 863-180 Classification C(TS), C	
Lakes or Ponds: Name Old Reservoir Classification A	
<ul> <li>Wetlands: Name Freshwater Pond (Old Reservoir classified as NWI wetland) Approximate Size 2.5</li> <li>Wetland No. (if regulated by DEC)</li> </ul>	
v. Are any of the above water bodies listed in the most recent compilation of NYS water quality-impaired	☐Yes <b>Z</b> No
waterbodies?	
If yes, name of impaired water body/bodies and basis for listing as impaired:	
i. Is the project site in a designated Floodway?	<b>Z</b> Yes □No
	✓ Yes No
j. Is the project site in the 100 year Floodplain?	
k. Is the project site in the 500 year Floodplain?	<b>Z</b> Yes □No
1. Is the project site located over, or immediately adjoining, a primary, principal or sole source aquifer? If Yes:	☐Yes ZNo
i. Name of aquifer:	

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

e. Does the project site contain, or is it substantially contiguous to, a l which is listed on, or has been nominated by the NYS Board of His State or National Register of Historic Places? If Yes:		✓ Yes No
<ul> <li>i. Nature of historic/archaeological resource:  Archaeological Sit</li> <li>ii. Name: Susquehannah Tumpike</li> </ul>	e	
iii. Brief description of attributes on which listing is based: One of the first turnpikes authorized by NYS (1800) connecting the Hudso	n River Valley over the Catskill Mts. to the Susquel	hanna River.
f. Is the project site, or any portion of it, located in or adjacent to an a archaeological sites on the NY State Historic Preservation Office (S		☐Yes ☑No per CRIS
g. Have additional archaeological or historic site(s) or resources been If Yes:  i. Describe possible resource(s):  ii. Basis for identification:		□Yes ☑No
<ul> <li>ii. Basis for identification:</li> <li>h. Is the project site within fives miles of any officially designated and</li> </ul>		✓ Yes No
scenic or aesthetic resource?  If Yes:	a publicity accessible federal, state, or local	KI Les Tivo
i. Identify resource: Susquehannah Tumpike, Catskill Park, Eastern range		
<ul> <li>ii. Nature of, or basis for, designation (e.g., established highway over etc.): <u>Designated NYS Scenic Road, NYS Forest Preserve, hiking trails ar</u></li> </ul>		r scenic byway,
iii. Distance between project and resource: 0.5 - 5		
<ul> <li>i. Is the project site located within a designated river corridor under t     Program 6 NYCRR 666?</li> <li>If Yes:         <ul> <li>i. Identify the name of the river and its designation:</li> </ul> </li> </ul>	he Wild, Scenic and Recreational Rivers	☐ Yes ZNo
ii. Is the activity consistent with development restrictions contained in	in 6NYCRR Part 666?	□Yes □No
F. Additional Information Attach any additional information which may be needed to clarify you If you have identified any adverse impacts which could be associated measures which you propose to avoid or minimize them.	* *	npacts plus any
G. Verification I certify that the information provided is true to the best of my know	ledge.	
Applicant/Sponsor Name Town of Cairo	Date 1-4-2016	
Signature A Signature	Title Daniel Benolt, Town Supervisor	

Full Environmental Assessment Form	
Part 2 - Identification of Potential Project Impac	ts

	Agency Use Only [1f applicable]
Project:	
Date:	

Part 2 is to be completed by the lead agency. Part 2 is designed to help the lead agency inventory all potential resources that could be affected by a proposed project or action. We recognize that the lead agency's reviewer(s) will not necessarily be environmental professionals. So, the questions are designed to walk a reviewer through the assessment process by providing a series of questions that can be answered using the information found in Part 1. To further assist the lead agency in completing Part 2, the form identifies the most relevant questions in Part 1 that will provide the information needed to answer the Part 2 question. When Part 2 is completed, the lead agency will have identified the relevant environmental areas that may be impacted by the proposed activity.

If the lead agency is a state agency and the action is in any Coastal Area, complete the Coastal Assessment Form before proceeding with this assessment.

### Tips for completing Part 2:

- Review all of the information provided in Part 1.
- Review any application, maps, supporting materials and the Full EAF Workbook.
- Answer each of the 18 questions in Part 2.
- If you answer "Yes" to a numbered question, please complete all the questions that follow in that section.
- If you answer "No" to a numbered question, move on to the next numbered question.
- Check appropriate column to indicate the anticipated size of the impact.
- Proposed projects that would exceed a numeric threshold contained in a question should result in the reviewing agency checking the box "Moderate to large impact may occur."
- The reviewer is not expected to be an expert in environmental analysis.
- If you are not sure or undecided about the size of an impact, it may help to review the sub-questions for the general question and consult the workbook.
- When answering a question consider all components of the proposed activity, that is, the "whole action".
- Consider the possibility for long-term and cumulative impacts as well as direct impacts.
- Answer the question in a reasonable manner considering the scale and context of the project.

	or the brejest		
1. Impact on Land Proposed action may involve construction on, or physical alteration of, the land surface of the proposed site. (See Part 1. D.1)  If "Yes", answer questions a - j. If "No", move on to Section 2.	□nc	) [	YES
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may involve construction on land where depth to water table is less than 3 feet.	E2đ	Ø	
b. The proposed action may involve construction on slopes of 15% or greater.	E2f	Ø	
c. The proposed action may involve construction on land where bedrock is exposed, or generally within 5 feet of existing ground surface.	E2a	Z	
d. The proposed action may involve the excavation and removal of more than 1,000 tons of natural material.	D2a	Ø	
<ul> <li>The proposed action may involve construction that continues for more than one year or in multiple phases.</li> </ul>	Dle	Ø	
f. The proposed action may result in increased erosion, whether from physical disturbance or vegetation removal (including from treatment by herbicides).	D2e, D2q	Ø	
g. The proposed action is, or may be, located within a Coastal Erosion hazard area.	BIi	Ø	
h. Other impacts:			

2. Impact on Geological Features  The proposed action may result in the modification or destruction of, or inhib access to, any unique or unusual land forms on the site (e.g., cliffs, dunes, minerals, fossils, caves). (See Part 1. E.2.g)	it 🔽 NO	)	YES
If "Yes", answer questions a - c. If "No", move on to Section 3.	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. Identify the specific land form(s) attached:	E2g		
b. The proposed action may affect or is adjacent to a geological feature listed as a registered National Natural Landmark.  Specific feature:	ЕЗс	O	O
c. Other impacts:			D
		'	
3. Impacts on Surface Water  The proposed action may affect one or more wetlands or other surface water bodies (e.g., streams, rivers, ponds or lakes). (See Part 1. D.2, E.2.h)  If "Yes", answer questions a - 1. If "No", move on to Section 4.	<b>∠</b> NC	) [	YES
	Relevant Part I Question(s)	No, o'r small impaet may occur	Moderate to large impact may occur
a. The proposed action may create a new water body.	D2b, D1h	o	D
b. The proposed action may result in an increase or decrease of over 10% or more than a 10 acre increase or decrease in the surface area of any body of water.	D2b	D	O O
<ul> <li>c. The proposed action may involve dredging more than 100 cubic yards of material from a wetland or water body.</li> </ul>	D2a		ū
<ul> <li>d. The proposed action may involve construction within or adjoining a freshwater or tidal wetland, or in the bed or banks of any other water body.</li> </ul>	E2h		0
<ul> <li>e. The proposed action may create turbidity in a waterbody, either from upland erosion, runoff or by disturbing bottom sediments.</li> </ul>	D2a, D2h	П	
f. The proposed action may include construction of one or more intake(s) for withdrawal of water from surface water.	D2c	П	
g. The proposed action may include construction of one or more outfall(s) for discharge of wastewater to surface water(s).	D2d	0	۵
h. The proposed action may cause soil erosion, or otherwise create a source of stormwater discharge that may lead to siltation or other degradation of receiving water bodies.	D2e	0	
<ol> <li>The proposed action may affect the water quality of any water bodies within or downstream of the site of the proposed action.</li> </ol>	E2h	0	. 0
j. The proposed action may involve the application of pesticides or herbicides in or around any water body.	D2q, E2h	0	a
k. The proposed action may require the construction of new, or expansion of existing, wastewater treatment facilities.	D1a, D2d	a	П

l. Other impacts:			0
4. Impact on groundwater  The proposed action may result in new or additional use of ground water, or may have the potential to introduce contaminants to ground water or an aquife (See Part 1, D.2.a, D.2.c, D.2.d, D.2.p, D.2.q, D.2.t)  If "Yes", answer questions a - h, If "No", move on to Section 5.	□NC er.	) [/]	YES
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
The proposed action may require new water supply wells, or create additional demand on supplies from existing water supply wells.	D2c	Ø	
b. Water supply demand from the proposed action may exceed safe and sustainable withdrawal capacity rate of the local supply or aquifer.  Cite Source:	D2e	Ø	
c. The proposed action may allow or result in residential uses in areas without water and sewer services.	Dia, D2e	Ø	ū
d. The proposed action may include or require wastewater discharged to groundwater.	D2d, E2l	Ø	О
e. The proposed action may result in the construction of water supply wells in locations where groundwater is, or is suspected to be, contaminated.	D2c, E1f, E1g, E1h	Ø	
f. The proposed action may require the bulk storage of petroleum or chemical products over ground water or an aquifer.	D2p, E2l	Ø	П
	E2h, D2q, E2l, D2c	<b>5</b> 21	
h. Other impacts:			
5. Impact on Flooding		·····	
The proposed action may result in development on lands subject to flooding. (See Part 1, E.2)  If "Yes", answer questions a - g. If "No", move on to Section 6.	NO	$\square$	YES
!	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may result in development in a designated floodway.	E2i	Ø	
b. The proposed action may result in development within a 100 year floodplain.	E2j	Ø	
c. The proposed action may result in development within a 500 year floodplain.	E2k	Ø	
d. The proposed action may result in, or require, modification of existing drainage patterns.	D2b, D2e	Ø	
2. The proposed action may change flood water flows that contribute to flooding.	D2b, E2i, E2j, E2k	Ø	
f. If there is a dam located on the site of the proposed action, is the dam in need of repair, or upgrade?	Ele	Ø	

g. Other impacts:			П
6. Impacts on Air  The proposed action may include a state regulated air emission source.  (See Part 1. D.2.f., D.2.h, D.2.g)  If "Yes", answer questions a - f. If "No", move on to Section 7.	Дис	) [	YES
Tes fansier gressions a f. q 110 (more on to see non v.	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
<ul> <li>a. If the proposed action requires federal or state air emission permits, the action may also emit one or more greenhouse gases at or above the following levels: <ol> <li>More than 1000 tons/year of carbon dioxide (CO<sub>2</sub>)</li> <li>More than 3.5 tons/year of nitrous oxide (N<sub>2</sub>O)</li> <li>More than 1000 tons/year of carbon equivalent of perfluorocarbons (PFCs)</li> <li>More than .045 tons/year of sulfur hexafluoride (SF<sub>o</sub>)</li> <li>More than 1000 tons/year of carbon dioxide equivalent of hydrochloroflourocarbons (HFCs) emissions</li> <li>43 tons/year or more of methane</li> </ol> </li> </ul>	D2g D2g D2g D2g D2g D2h	0 0 0	
<ul> <li>b. The proposed action may generate 10 tons/year or more of any one designated hazardous air pollutant, or 25 tons/year or more of any combination of such hazardous air pollutants,</li> </ul>	D2g	Ω	G
c. The proposed action may require a state air registration, or may produce an emissions rate of total contaminants that may exceed 5 lbs. per hour, or may include a heat source capable of producing more than 10 million BTU's per hour.	D2f, D2g		α,
d. The proposed action may reach 50% of any of the thresholds in "a" through "c", above.	D2g	a	0
e. The proposed action may result in the combustion or thermal treatment of more than 1 ton of refuse per hour.	D2s	0	0
f. Other impacts:			
7. Impact on Plants and Animals  The proposed action may result in a loss of flora or fauna. (See Part 1. E.2. m  If "Yes", answer questions a - j. If "No", move on to Section 8.	nq.)	No	□YES
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may cause reduction in population or loss of individuals of any threatened or endangered species, as listed by New York State or the Federal government, that use the site, or are found on, over, or near the site.	E2o	а	b ·
b. The proposed action may result in a reduction or degradation of any habitat used by any rare, threatened or endangered species, as listed by New York State or the federal government.	E2o		0
c. The proposed action may cause reduction in population, or loss of individuals, of any species of special concern or conservation need, as listed by New York State or the Federal government, that use the site, or are found on, over, or near the site.	E2p	П	В
d. The proposed action may result in a reduction or degradation of any habitat used by any species of special concern and conservation need, as listed by New York State or the Federal government.	E2p	ם	

e. The proposed action may diminish the capacity of a registered National Natural Landmark to support the biological community it was established to protect.	E3c	0	О
f. The proposed action may result in the removal of, or ground disturbance in, any portion of a designated significant natural community.  Source:	E2n	a	О
g. The proposed action may substantially interfere with nesting/breeding, foraging, or over-wintering habitat for the predominant species that occupy or use the project site.	E2m	П	
h. The proposed action requires the conversion of more than 10 acres of forest, grassland or any other regionally or locally important habitat.  Habitat type & information source:	Elb	[·]	Ø
i. Proposed action (commercial, industrial or recreational projects, only) involves use of herbicides or pesticides.	D2q		П
j. Other impacts:		D	а
8. Impact on Agricultural Resources The proposed action may impact agricultural resources. (See Part 1. E.3.a. a  If "Yes", answer questions a - h. If "No", move on to Section 9.		☑NO	□YES
The proposed action may impact agricultural resources. (See Part 1, E.3.a. a	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
The proposed action may impact agricultural resources. (See Part 1, E.3.a. a	Relevant Part I	No, or small impact	Moderate to large impact may
The proposed action may impact agricultural resources. (See Part 1. E.3.a. a If "Yes", answer questions a - h. If "No", move on to Section 9.  a. The proposed action may impact soil classified within soil group 1 through 4 of the	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
The proposed action may impact agricultural resources. (See Part 1. E.3.a. a If "Yes", answer questions a - h. If "No", move on to Section 9.  a. The proposed action may impact soil classified within soil group 1 through 4 of the NYS Land Classification System.  b. The proposed action may sever, cross or otherwise limit access to agricultural land	Relevant Part I Question(s) E2c, E3b	No, or small impact may occur	Moderate to large impact may occur
The proposed action may impact agricultural resources. (See Part 1. E.3.a. a If "Yes", answer questions a - h. If "No", move on to Section 9.  a. The proposed action may impact soil classified within soil group 1 through 4 of the NYS Land Classification System.  b. The proposed action may sever, cross or otherwise limit access to agricultural land (includes cropland, hayfields, pasture, vineyard, orchard, etc).  c. The proposed action may result in the excavation or compaction of the soil profile of	Relevant Part I Question(s)  E2c, E3b  E1a, Elb	No, or small impact may occur	Moderate to large impact may occur
The proposed action may impact agricultural resources. (See Part 1. E.3.a. a If "Yes", answer questions a - h. If "No", move on to Section 9.  a. The proposed action may impact soil classified within soil group 1 through 4 of the NYS Land Classification System.  b. The proposed action may sever, cross or otherwise limit access to agricultural land (includes cropland, hayfields, pasture, vineyard, orchard, etc).  c. The proposed action may result in the excavation or compaction of the soil profile of active agricultural land.  d. The proposed action may irreversibly convert agricultural land to non-agricultural uses, either more than 2.5 acres if located in an Agricultural District, or more than 10	Relevant Part I Question(s)  E2c, E3b  E1a, Elb  E3b	No, or small impact may occur	Moderate to large impact may occur
The proposed action may impact agricultural resources. (See Part 1. E.3.a. a If "Yes", answer questions a - h. If "No", move on to Section 9.  a. The proposed action may impact soil classified within soil group 1 through 4 of the NYS Land Classification System.  b. The proposed action may sever, cross or otherwise limit access to agricultural land (includes cropland, hayfields, pasture, vineyard, orchard, etc).  c. The proposed action may result in the excavation or compaction of the soil profile of active agricultural land.  d. The proposed action may irreversibly convert agricultural land to non-agricultural uses, either more than 2.5 acres if located in an Agricultural District, or more than 10 acres if not within an Agricultural District.  e. The proposed action may disrupt or prevent installation of an agricultural land	Relevant Part I Question(s)  E2c, E3b  E1a, Elb  E3b  E1b, E3a	No, or small impact may occur	Moderate to large impact may occur
<ul> <li>a. The proposed action may impact soil classified within soil group 1 through 4 of the NYS Land Classification System.</li> <li>b. The proposed action may sever, cross or otherwise limit access to agricultural land (includes cropland, hayfields, pasture, vineyard, orchard, etc).</li> <li>c. The proposed action may result in the excavation or compaction of the soil profile of active agricultural land.</li> <li>d. The proposed action may irreversibly convert agricultural land to non-agricultural uses, either more than 2.5 acres if located in an Agricultural District, or more than 10 acres if not within an Agricultural District.</li> <li>e. The proposed action may disrupt or prevent installation of an agricultural land management system.</li> <li>f. The proposed action may result, directly or indirectly, in increased development</li> </ul>	Relevant Part I Question(s)  E2c, E3b  E1a, E1b  E3b  E1b, E3a  E1 a, E1b  C2c, C3,	No, or small impact may occur	Moderate to large impact may occur

9. Impact on Aesthetic Resources  The land use of the proposed action are obviously different from, or are in sharp contrast to, current land use patterns between the proposed project and a scenic or aesthetic resource. (Part 1, E.1.a, E.1.b, E.3.h.)  If "Yes", answer questions a - g. If "No", go to Section 10.	И <mark>V</mark>	10	]YES
If Tes , answer questions a g. y 100 , go to section to.	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. Proposed action may be visible from any officially designated federal, state, or local scenic or aesthetic resource.	E3h	0	O
b. The proposed action may result in the obstruction, elimination or significant screening of one or more officially designated scenic views.	E3h, C2b	G	0
c. The proposed action may be visible from publicly accessible vantage points: i. Seasonally (e.g., screened by summer foliage, but visible during other seasons) ii. Year round	E3h	0	0
d. The situation or activity in which viewers are engaged while viewing the proposed	E3h		
action is:	E2q.		
<ul> <li>i. Routine travel by residents, including travel to and from work</li> <li>ii. Recreational or tourism based activities</li> </ul>	Ele	0	0
e. The proposed action may cause a diminishment of the public enjoyment and appreciation of the designated aesthetic resource.	E3h	. С	а
f. There are similar projects visible within the following distance of the proposed project:  0-1/2 mile ½-3 mile 3-5 mile 5+ mile	Dia, Eia, Dif, Dig	D	i i
g. Other impacts:		D	П
10. Impact on Historic and Archeological Resources The proposed action may occur in or adjacent to a historic or archaeological resource. (Part 1. E.3.e, f. and g.) If "Yes", answer questions a - e. If "No", go to Section 11.		o <b>Z</b>	YES
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may occur wholly or partially within, or substantially contiguous to, any buildings, archaeological site or district which is listed on or has been nominated by the NYS Board of Historic Preservation for inclusion on the State or National Register of Historic Places.	E3e	Ø	
<ul> <li>The proposed action may occur wholly or partially within, or substantially contiguous to, an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory.</li> </ul>	E3f	Ø	
c. The proposed action may occur wholly or partially within, or substantially contiguous to, an archaeological site not included on the NY SHPO inventory. Source:	E3g	Ø	

d. Other impacts:			
If any of the above (a-d) are answered "Moderate to large impact may e. occur", continue with the following questions to help support conclusions in Part 3:	1 , 11 100 100 100 100 100 100 100 100 1		
<ol> <li>The proposed action may result in the destruction or alteration of all or part of the site or property.</li> </ol>	E3e, E3g, E3f		
<ol> <li>The proposed action may result in the alteration of the property's setting or integrity.</li> </ol>	E3e, E3f, E3g, E1a, E1b		
iii. The proposed action may result in the introduction of visual elements which are out of character with the site or property, or may alter its setting.	E3e, E3f, E3g, E3h, C2, C3		
11. Impact on Open Space and Recreation  The proposed action may result in a loss of recreational opportunities or a reduction of an open space resource as designated in any adopted municipal open space plan.  (See Part 1. C.2.c, E.1.c., E.2.q.)  If "Yes", answer questions a - e. If "No", go to Section 12.	<b>√</b> N	о [	YES
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may result in an impairment of natural functions, or "ecosystem services", provided by an undeveloped area, including but not limited to stormwater storage, nutrient cycling, wildlife habitat.	D2e, E1b E2h, E2m, E2o, E2n, E2p	Π	Ū
b. The proposed action may result in the loss of a current or future recreational resource.	C2a, E1c, C2c, E2q	D	ū
<ul> <li>The proposed action may eliminate open space or recreational resource in an area with few such resources.</li> </ul>	C2a, C2c E1c, E2q	O	a
<ul> <li>d. The proposed action may result in loss of an area now used informally by the community as an open space resource.</li> </ul>	C2c, E1c		۵
e. Other impacts:		ם	П
12. Impact on Critical Environmental Areas  The proposed action may be located within or adjacent to a critical environmental area (CEA). (See Part 1. E.3.d)  If "Yes", answer questions a - c. If "No", go to Section 13.	<b>√</b> No	) [	YES
y to y to y to been on its	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may result in a reduction in the quantity of the resource or characteristic which was the basis for designation of the CEA.	E3d	ū	O
b. The proposed action may result in a reduction in the quality of the resource or characteristic which was the basis for designation of the CEA.	E3d	П	Ω
c. Other impacts:		D	D

The proposed action may result in a change to existing transportation systems (See Part 1. D.2.j)	s. V	D []	YES
If "Yes", answer questions a - f. If "No", go to Section 14.	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. Projected traffic increase may exceed capacity of existing road network.	D2j		
<ul> <li>The proposed action may result in the construction of paved parking area for 500 or more vehicles.</li> </ul>	D2j		
c. The proposed action will degrade existing transit access.	D2j		
d. The proposed action will degrade existing pedestrian or bicycle accommodations.	D2j		0
e. The proposed action may alter the present pattern of movement of people or goods.	D2j		
f. Other impacts:			
14. Impact on Energy  The proposed action may cause an increase in the use of any form of energy.  (See Part 1. D.2.k)  If "Yes", answer questions a - e. If "No", go to Section 15.	No	o 🔲	YES
If Test, unswer questions at early the type to become ter	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action will require a new, or an upgrade to an existing, substation.	D2k		
b. The proposed action will require the creation or extension of an energy transmission or supply system to serve more than 50 single or two-family residences or to serve a commercial or industrial use.	D1f, D1q, D2k	0	
c. The proposed action may utilize more than 2,500 MWhrs per year of electricity.	D2k	0	
d. The proposed action may involve heating and/or cooling of more than 100,000 square feet of building area when completed.	Dlg		0
e. Other Impacts:			
15. Impact on Noise, Odor, and Light  The proposed action may result in an increase in noise, odors, or outdoor ligh  (See Part 1. D.2.m., n., and o.)  If "Yes", answer questions a - f. If "No", go to Section 16.	ating. 🔽 NO	) [	YES
1) 100 , mismor questions at j. 2) 110 , go to bection 10.	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may produce sound above noise levels established by local regulation.	D2m		
b. The proposed action may result in blasting within 1,500 feet of any residence, hospital, school, licensed day care center, or nursing home.	D2m, E1d		
c. The proposed action may result in routine odors for more than one hour per day.	D2o	0	

e. The proposed action may result in lighting creating sky-glow brighter than existing area conditions.	D2n, E1a	
f. Other impacts:		

16. Impact on Human Health  The proposed action may have an impact on human health from exposure to new or existing sources of contaminants. (See Part 1.D.2.q., E.1. d. f. g. ar If "Yes", answer questions a - m. If "No", go to Section 17.	☑N nd h.)	0 🗆	YES
(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Relevant Part I Question(s)	No,or small impact may eccur	Moderate to large impact may occur
a. The proposed action is located within 1500 feet of a school, hospital, licensed day care center, group home, nursing home or retirement community.	E1d		
b. The site of the proposed action is currently undergoing remediation.	Elg, Elh		
<ul> <li>c. There is a completed emergency spill remediation, or a completed environmental site remediation on, or adjacent to, the site of the proposed action.</li> </ul>	Elg, Elh		
d. The site of the action is subject to an institutional control limiting the use of the property (e.g., easement or deed restriction).	Elg, Elh		
e. The proposed action may affect institutional control measures that were put in place to ensure that the site remains protective of the environment and human health.	Elg, Elh		
f. The proposed action has adequate control measures in place to ensure that future generation, treatment and/or disposal of hazardous wastes will be protective of the environment and human health.	D2t		
<ul> <li>g. The proposed action involves construction or modification of a solid waste management facility.</li> </ul>	D2q, E1f		
h. The proposed action may result in the unearthing of solid or hazardous waste.	D2q, E1f		
i. The proposed action may result in an increase in the rate of disposal, or processing, of solid waste.	D2r, D2s		
j. The proposed action may result in excavation or other disturbance within 2000 feet of a site used for the disposal of solid or hazardous waste.	Elf, Elg Elh		.0
<ul> <li>k. The proposed action may result in the migration of explosive gases from a landfill site to adjacent off site structures.</li> </ul>	E1f, E1g	п	
The proposed action may result in the release of contaminated leachate from the project site.	D2s, E1f, D2r		
m. Other impacts:			

17. Consistency with Community Plans  The proposed action is not consistent with adopted land use plans.  (See Part 1. C.1, C.2. and C.3.)  If "Yes", answer questions a - h. If "No", go to Section 18.	✓NO		YES
ij les , unswer questions u - n. ij 140 , go to bection 10.	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action's land use components may be different from, or in sharp contrast to, current surrounding land use pattern(s).	C2, C3, D1a E1a, E1b		
b. The proposed action will cause the permanent population of the city, town or village in which the project is located to grow by more than 5%.	C2	0	
c. The proposed action is inconsistent with local land use plans or zoning regulations.	C2, C2, C3	. 0	
d. The proposed action is inconsistent with any County plans, or other regional land use plans.	C2, C2	0	
e. The proposed action may cause a change in the density of development that is not supported by existing infrastructure or is distant from existing infrastructure.	C3, D1c, D1d, D1f, D1d, Elb		D
f. The proposed action is located in an area characterized by low density development that will require new or expanded public infrastructure.	C4, D2c, D2d D2j		
g. The proposed action may induce secondary development impacts (e.g., residential or commercial development not included in the proposed action)	C2a		
h. Other:			
18. Consistency with Community Character  The proposed project is inconsistent with the existing community character.  (See Part 1. C.2, C.3, D.2, E.3)  If "Yes" grouper questions a graft "No" progred to Part 3	✓NO	,	/ES
The proposed project is inconsistent with the existing community character.	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
The proposed project is inconsistent with the existing community character. (See Part 1. C.2, C.3, D.2, E.3)	Relevant Part I	No, or small impact	Moderate to large impact may
The proposed project is inconsistent with the existing community character. (See Part 1. C.2, C.3, D.2, E.3)  If "Yes", answer questions a - g. If "No", proceed to Part 3.  a. The proposed action may replace or eliminate existing facilities, structures, or areas	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
The proposed project is inconsistent with the existing community character.  (See Part 1. C.2, C.3, D.2, E.3)  If "Yes", answer questions a - g. If "No", proceed to Part 3.  a. The proposed action may replace or eliminate existing facilities, structures, or areas of historic importance to the community.  b. The proposed action may create a demand for additional community services (e.g.	Relevant Part I Question(s)  E3e, E3f, E3g	No, or small impact may occur	Moderate to large impact may occur
The proposed project is inconsistent with the existing community character.  (See Part 1. C.2, C.3, D.2, E.3)  If "Yes", answer questions a - g. If "No", proceed to Part 3.  a. The proposed action may replace or eliminate existing facilities, structures, or areas of historic importance to the community.  b. The proposed action may create a demand for additional community services (e.g. schools, police and fire)  c. The proposed action may displace affordable or low-income housing in an area where	Relevant Part I Question(s)  E3e, E3f, E3g  C4  C2, C3, D1f	No, or small impact may occur	Moderate to large impact may occur
The proposed project is inconsistent with the existing community character.  (See Part 1. C.2, C.3, D.2, E.3)  If "Yes", answer questions a - g. If "No", proceed to Part 3.  a. The proposed action may replace or eliminate existing facilities, structures, or areas of historic importance to the community.  b. The proposed action may create a demand for additional community services (e.g. schools, police and fire)  c. The proposed action may displace affordable or low-income housing in an area where there is a shortage of such housing.  d. The proposed action may interfere with the use or enjoyment of officially recognized	Relevant Part I Question(s)  E3e, E3f, E3g  C4  C2, C3, D1f D1g, E1a	No, or small impact may occur	Moderate to large impact may occur
The proposed project is inconsistent with the existing community character. (See Part 1. C.2, C.3, D.2, E.3)  If "Yes", answer questions a - g. If "No", proceed to Part 3.  a. The proposed action may replace or eliminate existing facilities, structures, or areas of historic importance to the community.  b. The proposed action may create a demand for additional community services (e.g. schools, police and fire)  c. The proposed action may displace affordable or low-income housing in an area where there is a shortage of such housing.  d. The proposed action may interfere with the use or enjoyment of officially recognized or designated public resources.  e. The proposed action is inconsistent with the predominant architectural scale and	Relevant Part I Question(s)  E3e, E3f, E3g  C4  C2, C3, D1f D1g, E1a  C2, E3	No, or small impact may occur	Moderate to large impact may occur

**Resolution No. 82 - 16** "Water System Improvements – SEQR Lead Agency, Classification and Determination of Significance" offered by Councilperson Warner and seconded by Councilperson Ostrander:

WHEREAS, by resolution dated January 4, 2016, the Town of Cairo Town Board declared its intention to act as Lead Agency for the conduct of the State Environmental Quality Review (SEQR) process and to undertake a Coordinated Review of capital improvements to the water system (hereafter, the "Project"); and

WHEREAS, each involved agency was notified by letter of the Town's intent to act as lead agency and provided with Part I of the Long Environmental Assessment Form (EAF); and

WHEREAS, no other agency has requested in writing to act as lead agency; NOW THEREFORE, in consideration of the foregoing:

- 1. The Town Board is the lead agency for the environmental review of the Project.
- 2. The project is a Type I action under SEQR per 6 NYCRR Part 617.4(b)(9).
- 3. Review of Part II of the Long EAF results in the determination that the project will not have a significant negative effect on the environment and therefore, a Negative Declaration is hereby adopted as documented in the narrative attached hereto and part hereof.
- 4. Filing of this Negative Declaration is hereby ordered in accordance with 6 NYCRR Part 617.11.
- 5. This resolution will take effect immediately.

Supervisor Benoit Aye
Councilperson Ostrander Aye
Councilperson Cords Aye
Councilperson Warner Aye
Councilperson Joyce Aye

# Certification of Resolution

I, <u>Tara A. Rumph</u>, <u>Town Clerk of the Town of Cairo</u> located in the State of New York, hereby certify that attached hereto is a true copy of certain resolution duly adopted by the <u>Town of Cairo</u> at a meeting duly called and held on March 7, 2016 at which a quorum was present and acting throughout, and that such resolutions have not been amended or revoked and are in full force and effect on the date hereof.

IN WITNESS WHEREOF, the undersigned has executed this certificate this 14<sup>th</sup> day of April, 2016.

Tara A. Rumph

# NEGATIVE DECLARATION NOTICE OF DETERMINATION OF SIGNIFICANCE State Environmental Quality Review (SEOR)

This notice is issued pursuant to Part 617 of the implementing regulations pertaining to Article 8 of the Environmental Conservation Law (SEQR).

The Town of Cairo, as lead agency, has determined that the proposed Action described herein will not have a significant effect on the environment and that an Environmental Impact Statement will not be prepared.

DATE:

March 7, 2016

NAME OF ACTION:

Water System Improvements

LOCATION:

Town of Cairo, Greene County, New York

**SEQR STATUS:** 

Type I

LEAD AGENCY:

Town of Cairo 512 Main Street

Cairo, New York 12413

### **DESCRIPTION OF ACTION:**

The Town of Cairo is planning a comprehensive water improvement project to address problems with insufficient capacity and aging storage, treatment and distribution systems. The project includes development of additional sources of supply to meet existing and future demands; replacement of old water transmission lines; replacement/rehabilitation of the existing water tank; improved disinfection capacity at the Park Well; water meter replacement and automated reading system; and extension of water service to residential customers on private wells with inadequate supply.

## Reasons Supporting This Determination:

The Town Board has reviewed the FEAF and the criteria contained in 6 NYCRR §617.7 and has determined that the water improvement project will not have a significant impact on the environment for the following reasons:

As required by §617.7(b), the Town has:

- Considered the Action as defined in subdivisions 617.2(b) and 617.3(g).
- Reviewed the FEAF, the criteria identified in Subdivision (c) of this section and other documentation to identify relevant areas of environmental concern.
- Analyzed the identified relevant areas of environmental concern to determine whether the action will have a significant adverse impact.

Set forth herein its written Finding of No Significant Environmental Impact

The following indicators of significant adverse impacts on the environment, as listed in 617.7(c)(1), were considered:

- 1. Will the Proposed Action result in a physical change to the project site?

  Small to moderate impact. The project will disturb approximately 2 acres of land that has previously been disturbed.
- 2. Will there be an effect to any unique or unusual land forms found on the site? No impact. No such land forms exist in the project area.
- 3. Will Proposed Action affect any water body designated as protected? (Under Articles 15, 24, 25 of the Environmental Conservation Law, ECL)?

  Small to moderate impact. In accordance with applicable regulations, a Stormwater Pollution Prevention Plan (SWPP) may be prepared and implemented for the construction so as to mitigate potential impacts to surface water quality. A DEC Water Supply may also be required. Work will be completed under terms of DEC permits (if required) to mitigate the potential environmental impacts.
- 4. Will Proposed Action affect any non-protected existing or new body of water? No impact has been identified.
- 5. Will Proposed Action affect surface or groundwater quality or quantity? Small to moderate impact.
- 6. Will Proposed Action alter drainage flow or patterns, or surface water runoff?

  No impact has been identified.
- 7. Will Proposed Action affect air quality? No impact has been identified.
- 8. Will Proposed Action affect any threatened or endangered species?

  No impact. No rare or state-listed animals or plants, significant communities or other significant habitats are known to occur in the vicinity of the project site.
- 9. Will Proposed Action substantially affect non-threatened or non-endangered species? No impact has been identified.
- 10. Will Proposed Action affect agricultural land resources?
  No impact has been identified.
- 11. Will Proposed Action affect aesthetic resources?

  No impact has been identified.

- 12. Will Proposed Action impact any site or structure of historic, prehistoric or paleontological importance?

  No impact has been identified. The proposed project is located outside of any previously identified archaeologically sensitive areas. Correspondence with NVS.
  - previously identified archaeologically sensitive areas. Correspondence with NYS OPRHP will occur throughout the life of the project to ensure that historic and archaeologic resources are preserved.
- 13. Will proposed Action affect the quantity or quality of existing or future open spaces or recreational opportunities?
  No impact has been identified.
- 14. Will Proposed Action impact the exceptional or unique characteristics of a critical environmental area (CEA) established pursuant to subdivision 6NYCRR 617.14(g)?

  No impact has been identified. No such areas have been designated in the project area.
- 15. Will there be an effect to existing transportation systems?

  Small to moderate impact. Work within the roadway and roadway right of way may impact traffic slightly. A Greene County Highway Work Permit may be required. Work will be completed under terms of Greene County permits (if required) to mitigate the potential impacts.
- 16. Will Proposed Action affect the community's sources of fuel or energy supply?

  No impact has been identified.
- 17. Will there be objectionable odors, noise, or vibration as a result of the Proposed Action?

  No impact has been identified.
- 18. Will Proposed Action affect public health and safety? No impact has been identified.
- 19. Will Proposed Action affect the character of the existing community? No impact has been identified.
- 20. Is there, or is there likely to be, public controversy related to potential adverse environment impacts?

  No impact has been identified.
- 617.7(c)(2) For the purpose of determining significant adverse impacts on the environment of those factors listed above, the long-term, short-term, direct, indirect and cumulative impacts, including simultaneous or subsequent actions, to the extent reasonable, as included in any long-range plan for the action, any action that is a result of the reviewed action or is dependent on the action were reviewed.

617.7(c)(3) – The significance of any likely consequences were assessed in connection with the setting of the action, the likelihood of occurrence, duration, irreversibility, geographic scope, magnitude and the number of people affected as a consequence of the action.

Based on this review, no adverse environmental impacts would result from this Action.

CONTACT PERSON:

Daniel Benoit, Supervisor

Town of Cairo 512 Main Street

Cairo, New York 12413

	Agency Use Only [IfApplicable]
Project :	
Date:	

# Full Environmental Assessment Form Part 3 - Evaluation of the Magnitude and Importance of Project Impacts and Determination of Significance

Part 3 provides the reasons in support of the determination of significance. The lead agency must complete Part 3 for every question in Part 2 where the impact has been identified as potentially moderate to large or where there is a need to explain why a particular element of the proposed action will not, or may, result in a significant adverse environmental impact.

Based on the analysis in Part 3, the lead agency must decide whether to require an environmental impact statement to further assess the proposed action or whether available information is sufficient for the lead agency to conclude that the proposed action will not have a significant adverse environmental impact. By completing the certification on the next page, the lead agency can complete its determination of significance.

### Reasons Supporting This Determination:

To complete this section:

- Identify the impact based on the Part 2 responses and describe its magnitude. Magnitude considers factors such as severity, size or extent of an impact.
- Assess the importance of the impact. Importance relates to the geographic scope, duration, probability of the impact
  occurring, number of people affected by the impact and any additional environmental consequences if the impact were to
  occur.
- The assessment should take into consideration any design element or project changes.
- Repeat this process for each Part 2 question where the impact has been identified as potentially moderate to large or where
  there is a need to explain why a particular element of the proposed action will not, or may, result in a significant adverse
  environmental impact.
- Provide the reason(s) why the impact may, or will not, result in a significant adverse environmental impact
- For Conditional Negative Declarations identify the specific condition(s) imposed that will modify the proposed action so that no significant adverse environmental impacts will result.
- · Attach additional sheets, as needed.

No impacts have been DETERMINATION OF	Identified that will have a mode SIGNIFICANCE, adopted on M	erate to large impact on the March 7, 2016 by the Cair	ne environment. Se o Town Board (Res	e NEGATIVE DECLARA solution #82-16).	TION, NOTICE OF	
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	Determinatio	n of Significance	- Type 1 and	Unlisted Actions		
SEQR Status:	Type 1	Unlisted				
Identify portions of	EAF completed for this P	roject: 📝 Part 1	Part 2	Part 3		

Upon review of the information recorded on this EAF, as noted, plus this additional support information
and considering both the magnitude and importance of each identified potential impact, it is the conclusion of the  as lead agency that:
A. This project will result in no significant adverse impacts on the environment, and, therefore, an environmental impact statement need not be prepared. Accordingly, this negative declaration is issued.
B. Although this project could have a significant adverse impact on the environment, that impact will be avoided or substantially mitigated because of the following conditions which will be required by the lead agency:
There will, therefore, be no significant adverse impacts from the project as conditioned, and, therefore, this conditioned negative declaration is issued. A conditioned negative declaration may be used only for UNLISTED actions (see 6 NYCRR 617.d).
C. This Project may result in one or more significant adverse impacts on the environment, and an environmental impact statement must be prepared to further assess the impact(s) and possible mitigation and to explore alternatives to avoid or reduce those impacts. Accordingly, this positive declaration is issued.
Name of Action: Town of Cairo Water System Improvements
Name of Lead Agency: Town of Cairo
Name of Responsible Officer in Lead Agency: Daniel Benoît
Title of Responsible Officer: Supervisor
Signature of Responsible Officer in Lead Agency: 10/11/19/10/14/15/2016
Signature of Preparer (if different from Responsible Officer)    Date: 4/15/2016
For Further Information:
Contact Person: Lindsay Ostrander, Project Engineer, Delaware Engineering, DPC
Address: 28 Madison Avenue Extension, Albany, NY 12203
Telephone Number: 518-452-1290
E-mail: lostrander@delawareengineering.com
For Type 1 Actions and Conditioned Negative Declarations, a copy of this Notice is sent to:
Chief Executive Officer of the political subdivision in which the action will be principally located (e.g., Town / City / Village of) Other involved agencies (if any) Applicant (if any) Environmental Notice Bulletin: <a href="http://www.dcc.ny.gov/enb/enb.html">http://www.dcc.ny.gov/enb/enb.html</a>



# ENB - Region 4 Notices 3/30/2016

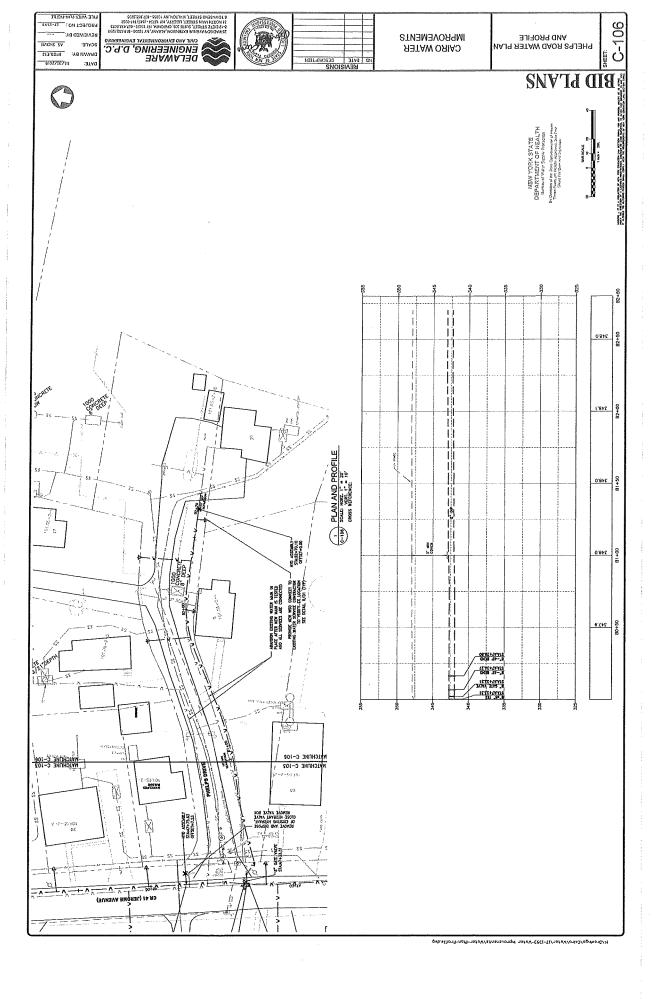
## **Negative Declaration**

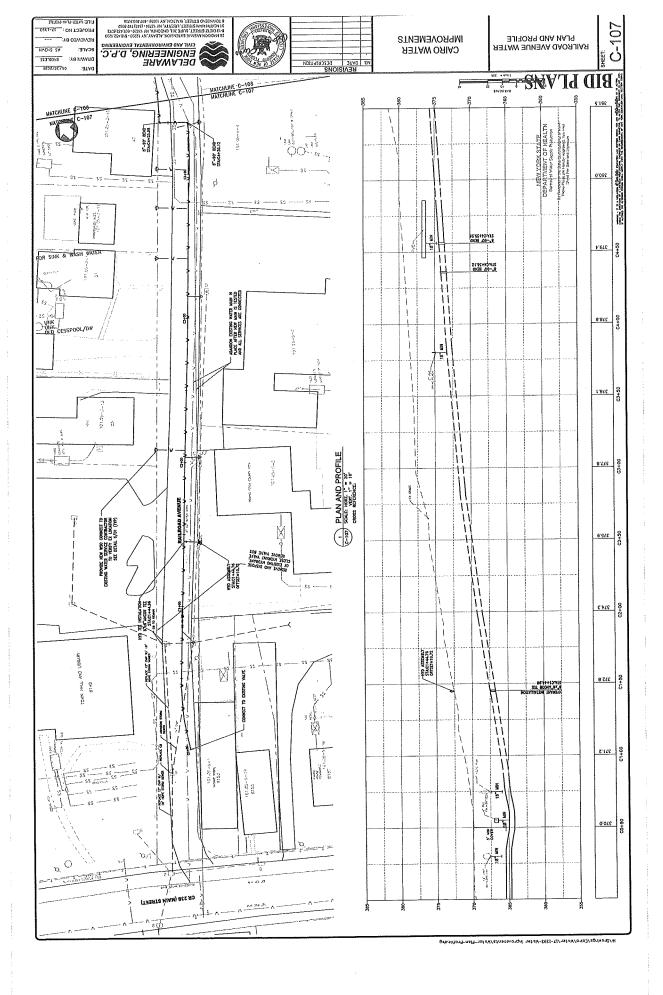
Greene County - The Town of Cairo, as lead agency, has determined that the Water System Improvements will not have a significant adverse environmental impact. The action involves improvements to Water District # 1 including sources of water supply; well disinfection capacity; and decayed and leaking water tank. It will also involve the replacement and extension of water mains and installation of new meters. The project is located in the Town of Cairo, New York.

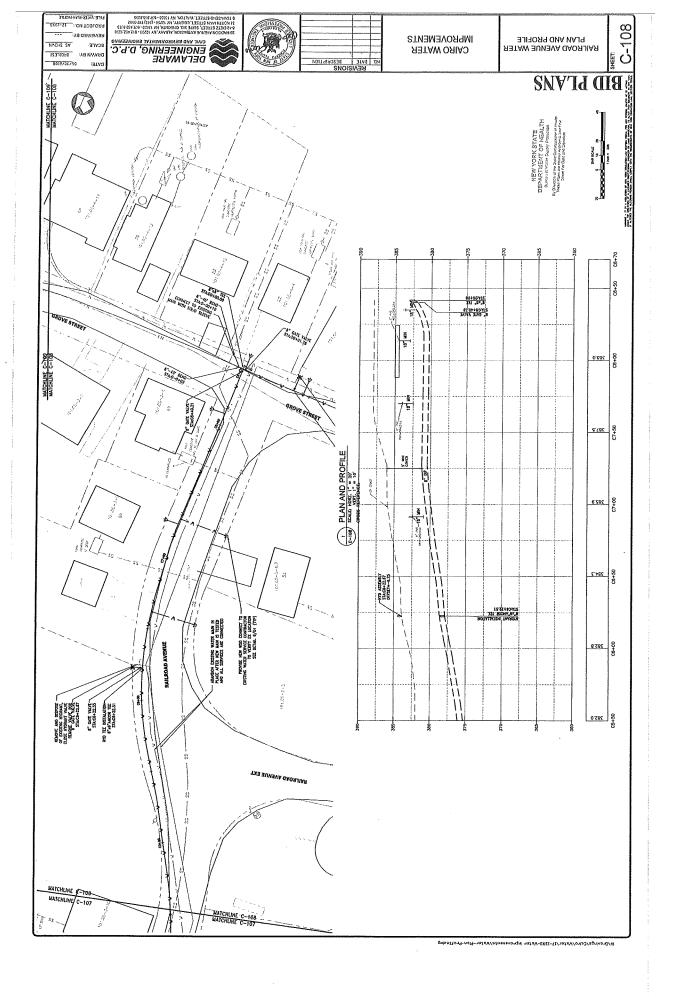
Contact: Daniel Benoit, Town of Cairo, P.O. Box 728, Cairo, NY 12413, Phone: (518) 622-3120, E-mail: supervisor@townofcairo.com.

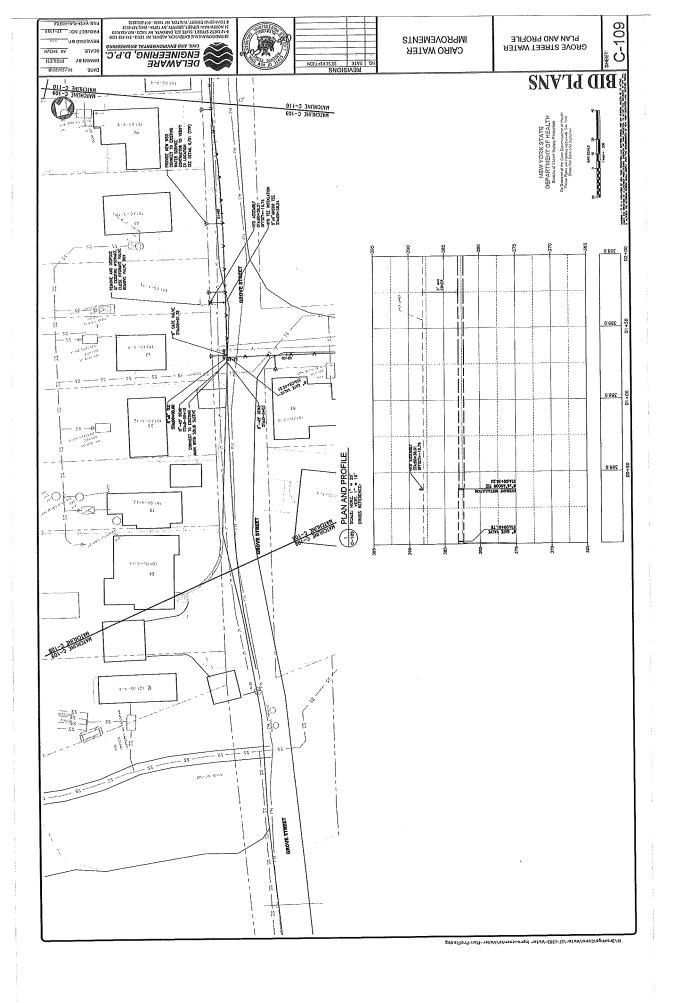
Schoharie County - The New York State Department of Environmental Conservation (NYS DEC), as lead agency, has determined that the proposed Schoharie RA #3 Herbicide Application will not have a significant adverse environmental impact. The action involves the application of registered herbicides to control the spread of invasive species (multiflora rose, honeysuckle, wild grape, barberry, Virginia creeper, and Oriental bittersweet) on 5 acres, and interfering vegetation, to cause a reduction of ferns and undesirable low valued tree species (beech, striped maple, witchhazel) on 59 acres to allow natural regeneration to flourish and to prepare sites for reforestation. This is needed to create conditions suitable for seed germination and the establishment of desirable (commercial) timber species. The abundance of these undesirable plant species present on the site are growing at a density that interferes with the development of desirable regeneration. Herbicide application is the most effective way to eliminate undesirable plant species that interfere with the development of desirable forest regeneration. The project is located on Schoharie RA #3, Stands D-25, 26, 30.2, 32, 36, 37.2, 38, 41, 45, 46, 49, 711, 940; Schoharie RA #4, Stand A-711; on Burnt Hill and Duck Pond Roads in the Town of Blenheim and Town of Fulton, New York.

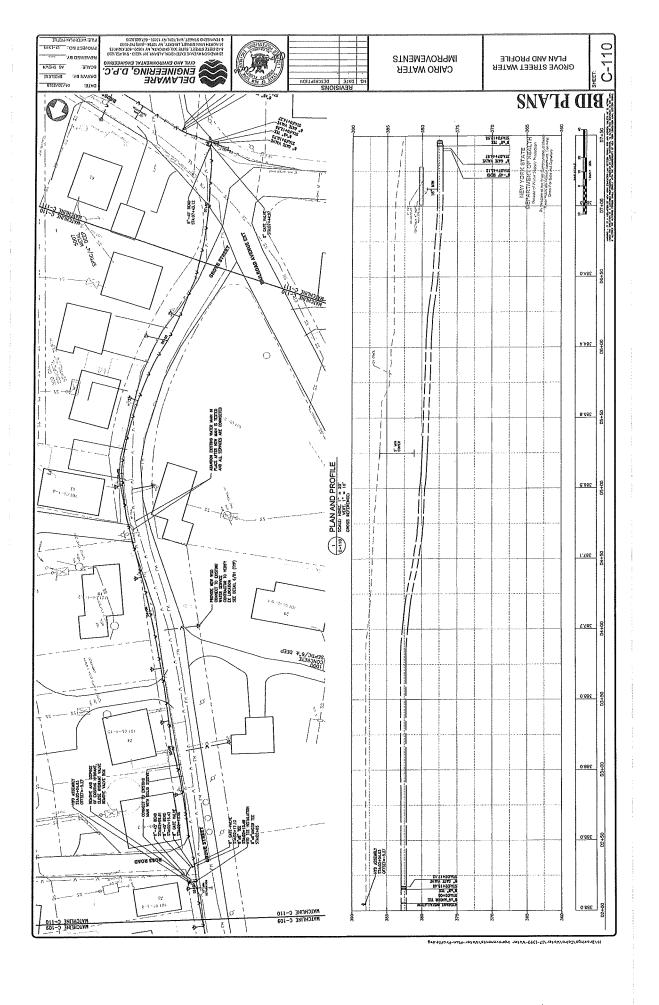
Contact: Robert Cross, NYS DEC - Region 4 Stamford Sub Office, Division of Lands and Forests, 65561 State Highway 10, Stamford, NY 12167, Phone: (607) 652-7365, E-mail: robert.cross@dec.ny.gov.

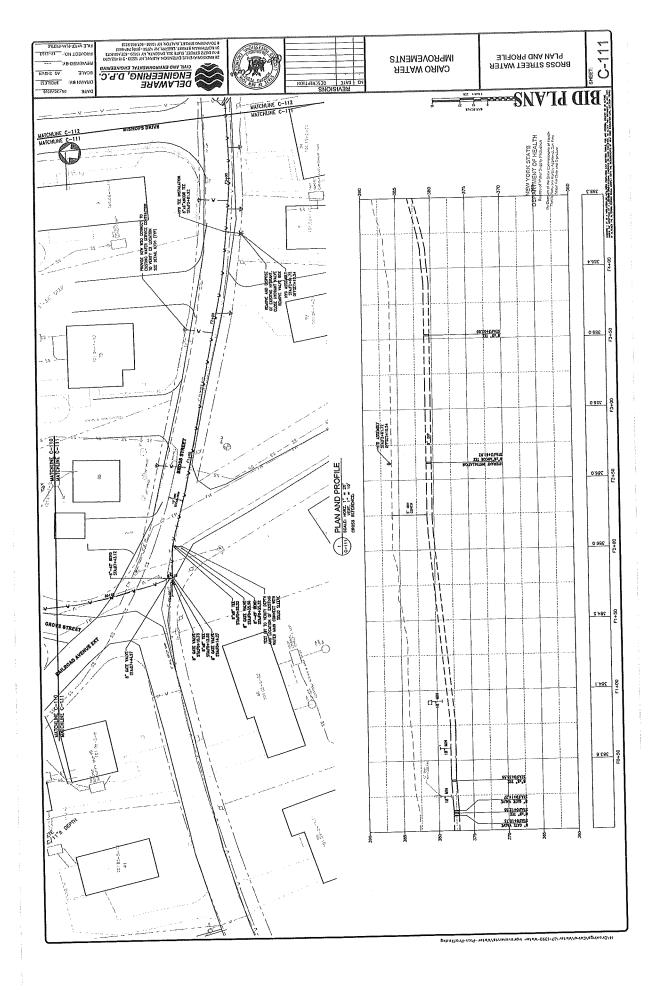


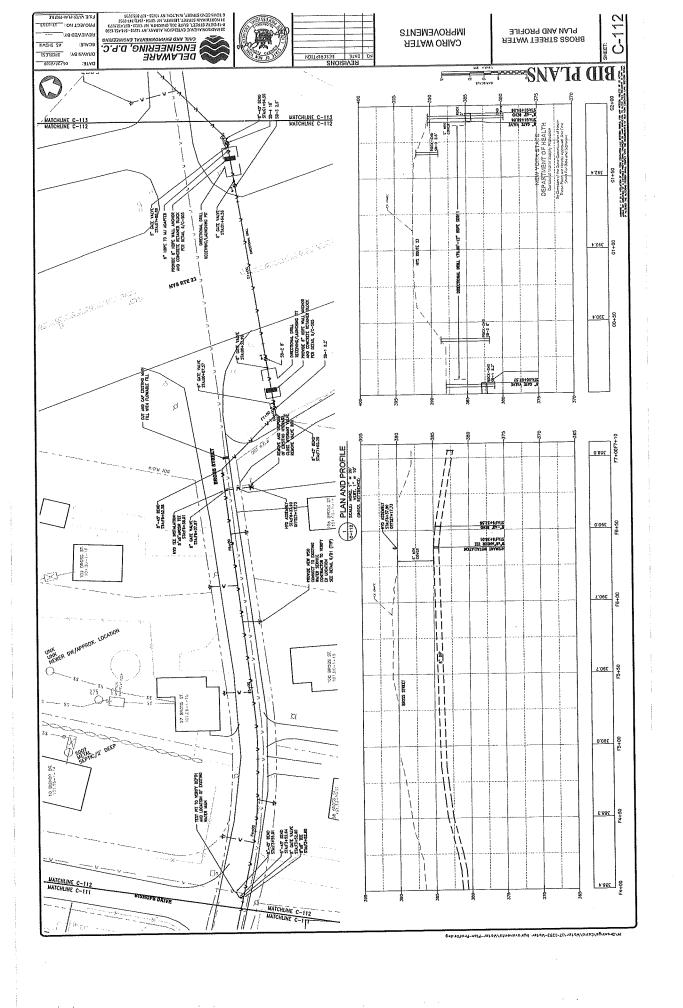


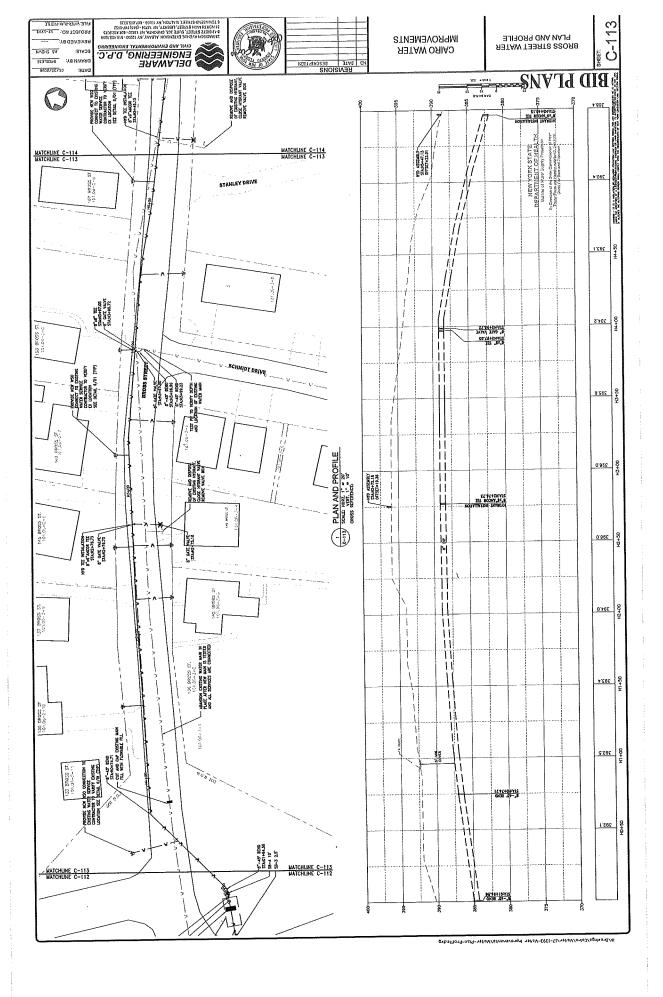


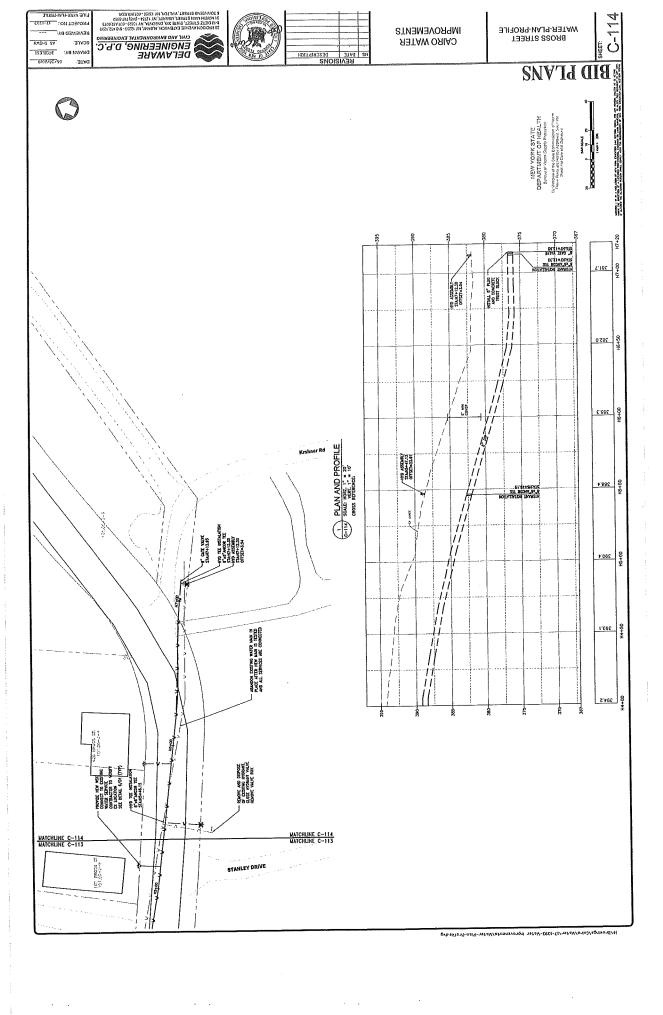


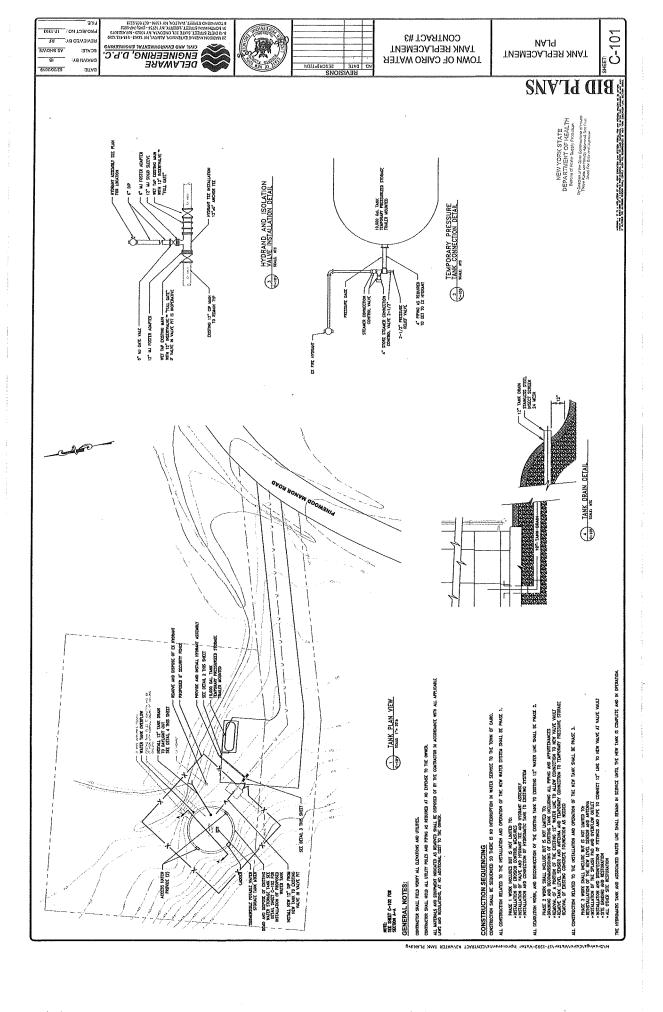


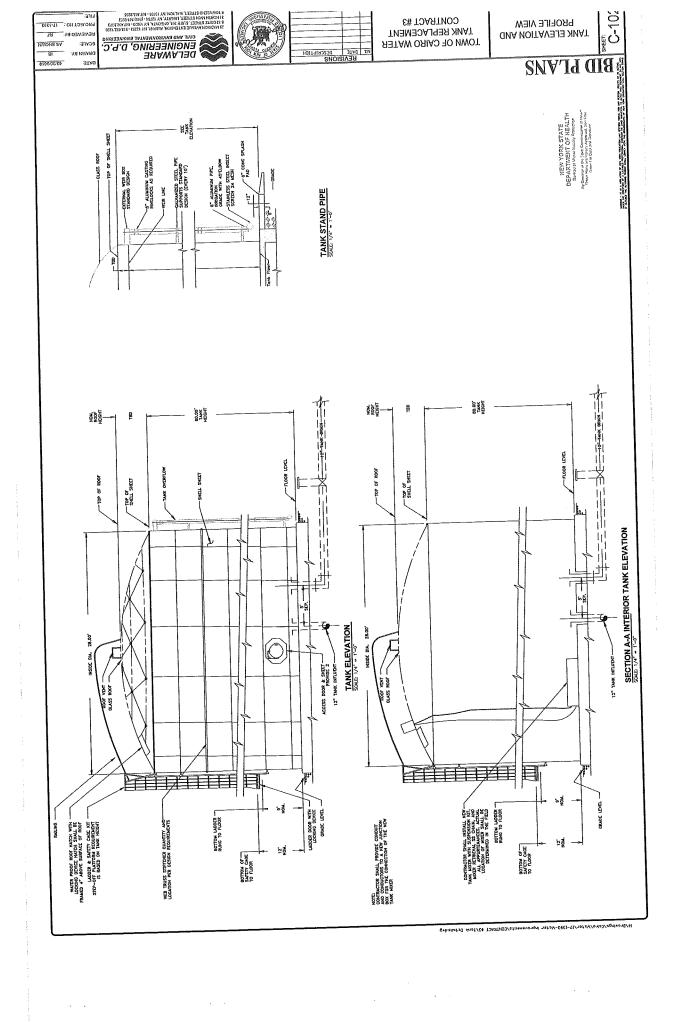


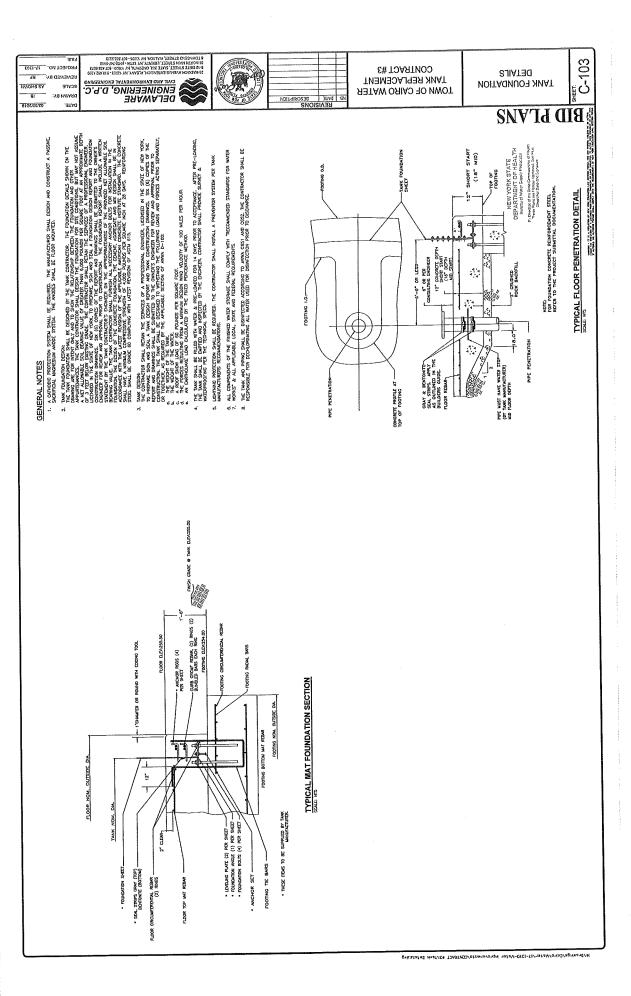


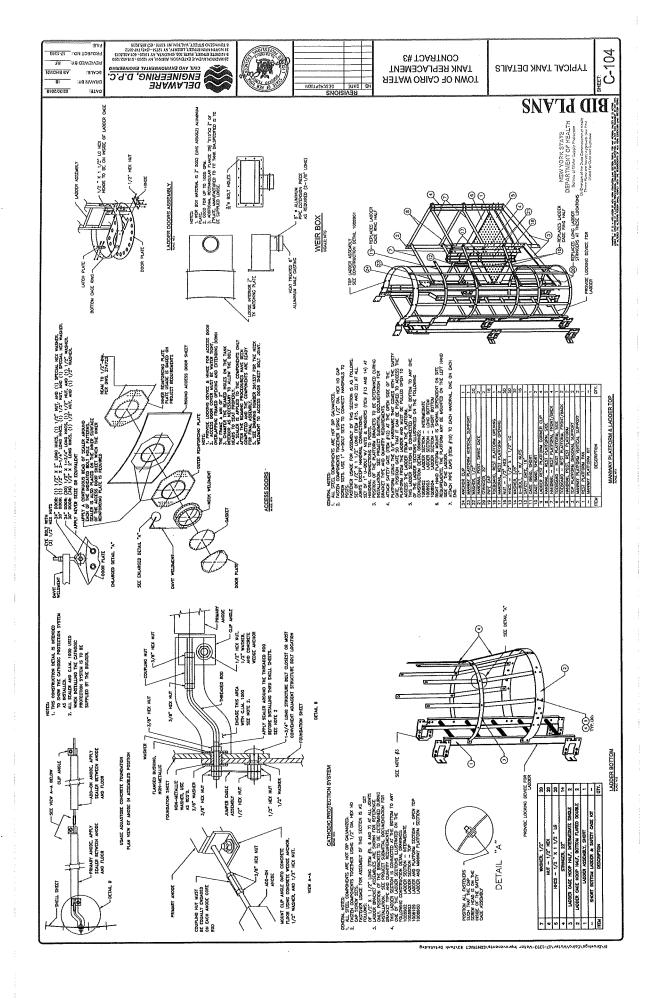


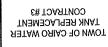


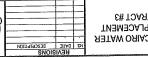












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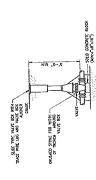
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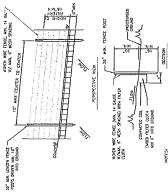






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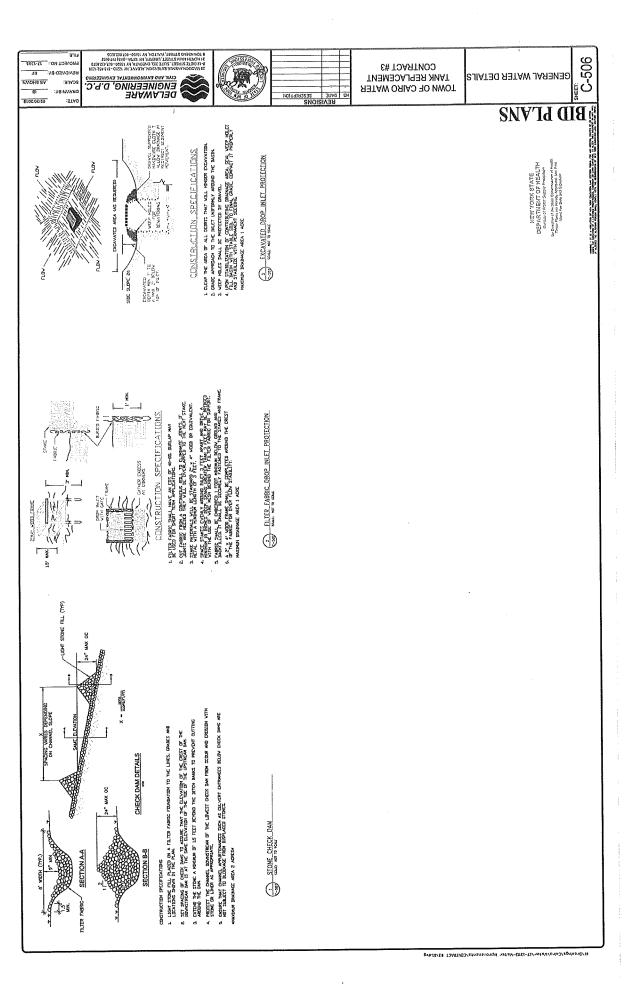
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THE FOLLOWING SIZED MATURE (OR EQUIVALENT) WILL BE USZED FOR ALL DISTURRED APEAS EXCEPT THE DETENDION BASHS AND INFLITMATION BASH



TYPICAL DETAILS

TOWN OF CAIRO WATER TANK REPLACEMENT CONTRACT #3

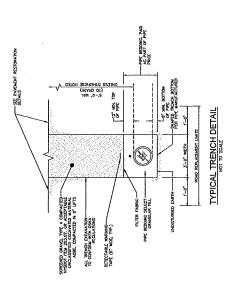
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