VILLAGE OF OWEGO
MUNICIPAL FACILITY PROJECT

20 ELM STREET, VILLAGE OF OWEGO, TOWN OF OWEGO, TIOGA COUNTY, NY

ENVIRONMENTAL ASSESSMENT

New York State Governor's Office of Storm Recovery
New York State Homes and Community Renewal
U.S. Department of Housing and Urban Development

June 20, 2019

VILLAGE OF OWEGO MUNICIPAL FACILITY PROJECT
Environmental Assessment

June 20, 2019

Project Name:	Village of Owego Municipal Facility Project
Project Location:	20 Elm Street, Village of Owego, Town of Owego, Tioga County, New York
Federal Agency:	US Department of Housing and Urban Development
Responsible Entity:	New York State Homes and Community Renewal (HCR) Governor's Office of Storm Recovery (GOSR)
Responsible Agency's Certifying Officer:	Lori A. Shirley, Certifying Environmental Officer 38-40 State Street, Hampton Plaza Albany, New York 12207 (518) 474-0755, Lori.Shirley@nyshcr.org
Project Sponsor: **Primary Contact:**	Village of Owego Mike Baratta, Mayor 178 Main Street Owego, NY 13827 Phone: (607) 687-3555 Email: mayor-vowego@stny.rr.com
Project NEPA Classification:	24 CFR 58.36 (Environmental Assessment)

Environmental Finding:	☒ Finding of No Significant Impact - The project will not result in a significant impact on the quality of the human environment.
	☐ Finding of Significant Impact - The project may significantly affect the quality of the human environment.
Certification	The undersigned hereby certifies that New York State Homes and Community Renewal has conducted an environmental review of the project identified above and prepared the attached environmental review record in compliance with all applicable provisions of the National Environmental Policy Act of 1969, as amended (42 USC Sec. 4321 et seq.) and its implementing regulations at 24 CFR Part 58.
Signature	 Lori A. Shirley

Environmental Assessment Prepared By:	Tectonic Engineering & Surveying PO Box 37, 70 Pleasant Hill Road Mountainville, NY 10953

CERTIFICATION OF NEPA CLASSIFICATION

It is the finding of the New York State Housing Trust Fund Corporation that the activity(ies) proposed in its 2019 NYS CDBG-DR project, Village of Owego Municipal Facility Project are:
Project Year Project Name

Check the applicable classification.

☐ Exempt as defined in 24 CFR 58.34 (a).

☐ Categorically Excluded as defined in 24 CFR 58.35(b).

☐ Categorically Excluded as defined in 24 CFR 58.35(a) and no activities are affected by federal environmental statues and executive orders [i.e., exempt under 58.34(a)(12)].

☐ Categorically Excluded as defined in 24 CFR 58.35(a) and some activities are affected by federal environmental statues and executive orders.

☒ "Other" neither exempt (24 CFR 58.34(a)) nor categorically excluded (24 CFR 58.35).

☒ Part or all of the project is located in an area identified as a floodplain or wetland. For projects located in a floodplain or wetland, evidence of compliance with Executive Orders 11988 and/or 11990 is required.

For activities excluding those classified as "Other", attached is the appropriate Classification Checklist (Exhibit 2-4) that identifies each activity and the corresponding citation.

Lori A Shirley

Signature of Certifying Officer

June 20, 2019
Date

Lori A. Shirley
Print Name

Environmental – Certifying Officer
Title

CERTIFICATION OF SEQRA CLASSIFICATION

It is the finding of the New York State Housing Trust Fund Corporation that the activity(ies) proposed in its 2019 NYS CDBG-DR project, Village of Owego Municipal Facility Project are:
Project Year Project Name

Check the applicable classification:

- ☐ Type I Action (6NYCRR Section 617.4)
- ☐ Type II Action (6NYCRR Section 617.5)
- ☒ Unlisted Action (not Type I or Type II Action)

Check if applicable:

- ☐ Environmental Impact Statement (EIS) Prepared
  - ☐ Draft EIS
  - ☐ Final EIS

Lori A Shirley

Signature of Certifying Officer

June 20, 2019
Date

Lori A. Shirley
Print Name

Certifying Environmental Officer
Title

Description of the Proposed Project [24 CFR 50.12 & 58.32; 40 CFR 1508.25]**:**
The Village of Owego is requesting $3,020,068.00 in CDBG-DR funding for the Village of Owego Municipal Facility Project (Project), which will involve the construction of a new municipal building for the Village of Owego Department of Public Works (DPW) at 20 Elm Street, Village of Owego, Town of Owego, Tioga County, New York. The new municipal building will be an approximately 5,000 square foot (50 foot by 100 foot) steel framed building that is two (2) feet above the 100-year floodplain, which is 6 feet above the existing grade. The proposed Project is located on vacant land approximately 50 feet to the west of an existing Department of Public Works building and maintenance garage. Project location maps are included in **Attachment 1** and Project Design Plans are included in **Attachment 2**.

The proposed Project will include the following construction activities: installation of silt fence; removal of existing site vegetation, asphalt pavement, concrete sidewalk, and concrete curb; relocating existing boulders along an asphalt parking lot; clearing and grubbing the site to the required sub-grade elevation; providing additional fill and grading the site; construction of the proposed municipal building and interior spaces; installation of landings, stairs, ramps, pavement, conduit sleeves, parking delineation lines, a sanitary sewer line, a water service line, a utility pole, an overhead utility line, an underground utility line, and one (1) ADA compliant exterior ramp and stairs to accommodate elevated building access; connecting new water and sanitary services to the building from existing municipal lines; all necessary electrical, plumbing, and mechanical provisions and connections; and restoring the area with topsoil, seed, and mulch. The creation of a floodplain mitigation area will offset the floodplain loss that will result from infilling the floodplain in order to site the new building above the 100-year floodplain.

The Project will involve the addition of approximately 2,312.08 cubic feet (cf) of fill material to the floodplain in order to site the new municipal building two (2) feet above the base flood elevation (BFE). However, approximately 381.96 cf of material will be removed from the floodplain during construction and approximately 2,102.69 cf of material will be removed from the floodplain to create a stormwater retention area, which will offset the addition of material to the floodplain necessary to site the municipal building two (2) feet above the BFE. A net total of 172.57 cf of material will be removed from the floodplain, which indicates that the Project will create approximately 172.57 cf of additional storage in the floodplain. Therefore, implementation of the Project will preserve the natural and beneficial functions and values of the floodplain.

Statement of Purpose and Need for the Proposal [40 CFR 1508.9(b)]:
The existing Village of Owego Department of Public Works is located in a 100-year floodplain and experienced catastrophic flooding from Hurricane Irene and Tropical Storm Lee in 2011. The existing building that houses the Department of Public Works and Code Enforcement offices is located approximately four (4) feet below the 100-year floodplain elevation. As a result of Hurricane Irene and Tropical Storm Lee, the Village of Owego's Department of Public Works building experienced flood waters approximately four (4) feet above the existing grade level, which is approximately two (2) feet below what will be the finished floor elevation for the new proposed building. The flooding caused the Village of Owego Department of Public Works building to be rendered inoperable. The facility, which houses the Village's DPW equipment, along with offices for DPW staff and code enforcement, was difficult to access in the days immediately following the storm. This resulted in limited municipal services delivery during and immediately following the storms. The proposed Project mitigates this threat by constructing a new municipal facility that will be elevated two (2) feet above the 100-year floodplain, which will protect the building from future storm events and allow the Village of Owego to respond better and recover more quickly from future events.

Existing Conditions and Trends [24 CFR 58.40(a)]:
The Village of Owego is located in the southeast corner of Tioga County, in an area that is recognized as the Southern Tier of New York State. Tioga County is comprised of nine towns and six villages, and according to the 2010 US Census, includes 51,125 residents. Tioga County's strategic location and proximity to major transportation routes helps drive the local economy, which is dependent on a wide variety of industries including tourism, agriculture, manufacturing, and education. The majority of Tioga County's residents live within the Town of Owego.

According to a recent report, *ClimAID: the Integrated Assessment for Effective Climate Change Adaptation Strategies in New York State*, the need to plan for the mitigation and recovery from future flood events in the Village of Owego, and the entire Southern Tier of New York State, is a growing concern as we enter into the 21st century. In 2008, the New York State Energy Research and Development Authority (NYSERDA) initiated "ClimAID" as part of its Environmental Monitoring, Evaluation, and Protection Program (EMEP). As part of the project, a three-year study was conducted by more than 50 scientists from Cornell University, Columbia University, and the City University of New York to identify and assess climate change impacts and adaptation options for New York State. The results of the study were compiled in the 600-page report that warns that New Yorkers should begin to prepare for an increased number of heat waves, snowier winters, severe floods, and a range of other effects on the environment, communities and human health.

The existing Village of Owego DPW facility is located within the floodplain and is prone to flooding. This facility is essential to the community during a disaster, as the DPW is necessary to provide services to the community. The construction of the new municipal facility two (2) feet above the 100-year floodplain is anticipated to reduce flood risk to municipal operations and provide savings to the Village of Owego by avoiding flood damaged during future storms.

Funding Information
Estimated Total HUD Funded Amount: $3,020,068.00
Estimated Total Project Cost (HUD and non-HUD funds) [24 CFR 58.32(d)]**: $3,020,068.00**

Compliance with 24 CFR 58.5, and 58.6 Laws and Authorities

Record below the compliance or conformance determinations for each statute, executive order, or regulation. Provide credible, traceable, and supportive source documentation for each authority. Where applicable, complete the necessary reviews or consultations and obtain or note applicable permits of approvals. Clearly note citations, dates/names/titles of contacts, and page references. Attach additional documentation as appropriate.

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	**Compliance determinations**
STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 50.4 and 58.6		
Airport Hazards 24 CFR Part 51 Subpart D	Yes ☐ No ☒	Based on guidance provided by HUD via Fact Sheet #D1[1], the National Plan of Integrated Airport Systems (NPIAS) was reviewed for civilian, commercial service and military airports located near the Project. This review is summarized in the Airport Hazards Map included in **Attachment 3**. There are no civilian, commercial service airports located within 2,500 feet of the proposed Project. There are no military airports located within 15,000 feet of the Site. No additional review is required.
Coastal Barrier Resources Coastal Barrier Resources Act, as amended by the Coastal Barrier Improvement Act of 1990 [16 USC 3501]	Yes ☐ No ☒	Based on the USFWS Coastal Barrier Resources System Map[2] included in **Attachment 3**, the Project is not located in, or within 150 feet of, a Coastal Barrier Resource System Unit or Otherwise Protected Area. No additional review is required.
Flood Insurance Flood Disaster Protection Act of 1973 and National Flood Insurance Reform Act of 1994 [42 USC 4001-4128 and 42 USC 5154a]	Yes ☒ No ☐	Based on the FEMA National Flood Hazard Layer Map (FIRM 36107C0382E, effective 4/17/2012) included in *Appendix II* of **Attachment 4**, the Project is located within a FEMA[3] Special Flood Hazard Area. The Village of Owego participates in the National Flood Insurance program. Flood insurance coverage must be obtained and continued for the life of the proposed building. The Village of Owego shall be required to show proof of current flood insurance, and when received, proof of current flood insurance

[1] Fact Sheet #D1: Siting HUD-Assisted Projects in Accident Potential Zones. https://www.michigan.gov/documents/mshda/mshda_cd_nsp2_air_accident_315724_7.pdf
[2] USFWS Coastal Barrier Resources. https://www.fws.gov/ecological-services/habitat-conservation/cbra/Maps/index.html
[3] FEMA Flood Map Portal. https://msc.fema.gov/portal

		shall be appended to the Environmental Review Record (ERR).
STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 50.4 & 58.5		
Clean Air Clean Air Act, as amended, particularly section 176(c) & (d); 40 CFR Parts 6, 51, 93	Yes ☐ No ☒	The Project is located in Tioga County, which is listed as a current attainment area[4] for particulate matter ($PM_{2.5}$ or PM_{10}), carbon monoxide, and ozone. Therefore, a conformity and screening analysis was not performed according to the requirements of 40 CFR 93, Subpart B (federal general conformity regulations). The Project would not generate significant levels of vehicular traffic; therefore, no exceedances of the National Ambient Air Quality Standard (NAAQS) associated with carbon monoxide (CO) or particulate matter (PM) is anticipated occur. The proposed Project will not result in siting any new source of air pollutants. The proposed Project will not adversely affect the State Implementation Plan (SIP). Any air quality impacts would be short-term and localized during construction and, therefore, no significant adverse impacts to air quality are anticipated. However, it is recommended that construction activities are conducted in such a way as to ensure acceptable air quality during these activities (e.g., through minimization of volatile organic compounds and nitrogen oxides emissions, mindful operation of gas-powered construction equipment to avoid prolonged idling, or fugitive dust management during construction). It is also recommended that low-VOC materials and inventory and energy star efficient equipment are used, as practicable. No additional review is required.
Coastal Zone Management Coastal Zone Management Act, sections 307(c) & (d)	Yes ☐ No ☒	Not applicable. The proposed Project is not located within the New York State Coastal Boundary (**Attachment 3**). No additional review is required.
Contamination and Toxic Substances 24 CFR Part 50.3(i) & 58.5(i)(2)	Yes ☐ No ☒	Based on a review of available environmental records for the Project and the surrounding area, the Project area is unlikely to contain hazardous materials, contamination, toxic chemicals and gases, or radioactive substances which would constitute a hazard that could affect the health and safety of

[4] EPA, *Nonattainment Areas for Criteria Pollutants*. https://www.epa.gov/green-book
EPA, *Recent Updates: Federal Register Notices Published or Effective After September 22, 2016* http://www.epa.gov/airquality/greenbook/adden.html

		occupants or conflict with the intended utilization of the Project location. Therefore, a Phase I Environmental Site Assessment (ESA) or Phase II Investigation is not warranted. An in depth review of New York State and Federal records, including maps, NYSDEC reports, and EPA reports, are included as part of **Attachment 5**. No additional review is required.
Endangered Species Endangered Species Act of 1973, particularly section 7; 50 CFR Part 402	Yes ☐ No ☒	According to the NYSDEC Environmental Resource Mapper (ERM) and Environmental Assessment Form (EAF) Mapper, the Project is not located within or near an area with New York State listed rare plants or animals (**Attachment 6**). A request was sent to NYSDEC requesting a search for any state endangered or threatened species. NYSDEC responded that in the Susquehanna River about .35 mile from the project site, the freshwater mussel yellow lampmussel (*Lampsilis cariosa*, not listed by NYS but rare in the state) has been documented. The rare damselfly spatterdock darner (*Rhionaeschna mutata*, also unlisted) has also been documented in the vicinity. If the proposed work is conducted so as not to impact the Susquehanna River, including runoff or erosion from the project site, on we do not expect any significant impacts to the rare species there. The proposed project will not have impacts to the Susquehanna River watershed. The proposed project will have erosion control. The U.S. Fish and Wildlife Service (USFWS) lists the northern long-eared bat (threatened) as the only federally endangered or threatened species under USFWS jurisdiction that may occur within the boundaries of the proposed Project. The Project will not involve removal of any trees in the Project area. There is no suitable habitat for the USFWS threatened species listed in the Project area. The Project will involve construction in areas that do not support or provide habitat for any rare, threatened or endangered plant or animal species. Therefore GOSR determined that the proposed Project would have "no effect" on species under the jurisdiction of the USFWS. Project information was submitted to the USFWS on May 28, 2019 for acknowledgement of the no effect determination. Though it is not a condition of funding, the response documentation will be

		appended to the Environmental Review Record when it is received (**Attachment 6**). No additional review is required.
Explosive and Flammable Hazards 24 CFR Part 51 Subpart C	Yes ☐ No ☒	Not applicable. Pursuant to Part 51 Subpart C "HUD-assisted project" Definition (in 51.201), the Project does not involve activities that would increase residential densities, converting the type of use of a building to habitation, or making a vacant building habitable. Therefore, regulations pursuant to 24 CFR Part 51 Subpart C are not applicable to the Project. No additional review is required.
Farmlands Protection Farmland Protection Policy Act of 1981, particularly sections 1504(b) and 1541; 7 CFR Part 658	Yes ☐ No ☒	Not applicable. The Project is not located within an Agricultural District as identified by New York State and the University of Cornell. U.S. Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) maps provide information on soils types and properties that influence development of sites. According to the USDA NRCS soils map data, the soil at the proposed Project area is designated as "all areas are prime farmland." The Project area is currently a mowed lawn adjacent to an existing building and is surrounded by commercial, industrial, and residential development. Based on a review of aerial imagery, the Project is located in an area with a density of greater than 30 structures in a 40-acre area, and would be considered "committed to urban development" based on 7 CFR Part 658.2. The Project will not involve the conversion of farmland to non-agricultural use. Therefore, the proposed Project would not violate the Farmland Protection Policy Act, and no further review is required. The New York State Agricultural Districts Map and the USDA NRCS Soil Resources Report are included as part of **Attachment 7**. No additional review is required.
Floodplain Management Executive Order 11988, particularly section 2(a); 24 CFR Part 55	Yes ☒ No ☐	The Project activities are located in the 100-year floodplain (FIRM 36107C0382E, effective 4/17/2012), as documented in *Appendix II* of **Attachment 4**. An 8-step Floodplain Management Determination was completed pursuant to 24 CFR 55.20. See the Floodplain Management & Wetlands Protection Determination, annexed hereto as **Attachment 4**.

		Direct and indirect impacts of the proposed Project on the 100-year floodplain and potential alternatives to the proposed Project were evaluated. Since the Project will provide a net 172.57 cf of additional storage in the floodplain, the existing natural moderation of floodplain and floodway will remain intact and groundwater recharge will not be impeded, and the Project will preserve the natural and beneficial functions and values of the floodplain.
Historic Preservation National Historic Preservation Act of 1966, particularly sections 106 and 110; 36 CFR Part 800; Tribal notification for new ground disturbance.	Yes ☐ No ☒	On May 30, 2019, the New York State Historic Preservation Office (SHPO) reviewed the proposed Project and provided a 'No Historic Properties Affected' determination for the proposed undertaking. This determination is included as part of **Attachment 8**. Additionally, as the construction work solely involves work in previously disturbed soils, there is no adverse effect on tribal resources; no consultation with the applicable Tribal Historic Preservation Officers is required. In the event any unanticipated discoveries of human remains and/or cultural resources including, but not limited to, funerary objects, sacred objects, and objects of cultural patrimony are made during execution of the proposed Project, work shall be halted immediately and the SHPO and the applicable THPOs shall be consulted before work resumes. No additional review is required.
Noise Abatement and Control Noise Control Act of 1972, as amended by the Quiet Communities Act of 1978; 24 CFR Part 51 Subpart B	Yes ☐ No ☒	The Project does not involve new construction for residential use or rehabilitation of an existing residential property. The proposed activities are not expected to generate excessive noise during the short-term construction work and will adhere to local noise control standards. The proposed Project will be completed in accordance with all applicable federal, state and local permit requirements and conditions. Therefore, the proposed Project would not generate any significant adverse noise impacts, and the Project is in compliance with this section. No additional review is required.
Sole Source Aquifers Safe Drinking Water Act of 1974, as amended, particularly section 1424(e); 40 CFR Part 149	Yes ☐ No ☒	The Project is located above the Clinton Street Ballpark SSA. The Project activities were reviewed according to the non-housing project activity initial screen criteria form and a sole source aquifer analysis and consultation was submitted to the EPA on May

		21, 2019. The EPA determined that there is compliance with the Safe Drinking Water Act of 1974 Section 1424(e) and the regulations promulgated in 40 CFR Part 149, and no further compliance measures are required. The EPA determination and soles source aquifer analysis for the Project are included in **Attachment 9**. No additional review is required.
Wetlands Protection Executive Order 11990, particularly sections 2 and 5	Yes ☐ No ☒	The proposed Project is not located adjacent to or within federally or state designated wetlands as shown in *Appendix I* of **Attachment 4**, and the Project will not involve disturbance to wetlands. Therefore, a formal wetland management review process is not required. However, since the Project is located in the floodplain an 8-step review of the proposed Project pursuant to 24 CFR Part 55 was undertaken. The Floodplain Management Determination (EO 11988) and Protection of Wetlands (EO 11990) Determination is appended as **Attachment 4**.
Wild and Scenic Rivers Wild and Scenic Rivers Act of 1968, particularly section 7(b) and (c)	Yes ☐ No ☒	The proposed Project is not located within proximity of any wild, scenic, or recreational rivers, as designated by the U.S. Department of the Interior, Congress, or NYSDEC[5]; the proposed Project is not located within the proximity of any waterway included in the National Wild and Scenic Rivers System[6] or Nationwide Rivers Inventory[7] (NRI). A NYSDEC & NPS Wild and Scenic Rivers Map is included as part of **Attachment 3**. No additional review is required.
ENVIRONMENTAL JUSTICE		
Environmental Justice Executive Order 12898	Yes ☐ No ☒	Not applicable. The Project is not located in an area defined by the NYSDEC as a potential environmental justice area[8], as shown by the map included in **Attachment 3**. No additional review is required.

[5] NYSDEC Wild, Scenic, and Recreational Rivers. http://www.dec.ny.gov/permits/32739.html
[6] U.S. Department of Interior: National Wild and Scenic Rivers System. http://www.rivers.gov/new-york.php
[7] U.S. Department of Interior: Nationwide Rivers Inventory. http://www.nps.gov/ncrc/programs/rtca/nri/states/ny.html
[8] NYSDEC Environmental Justice. https://www.dec.ny.gov/public/333.html

Environmental Assessment Factors [24 CFR 58.40; Ref. 40 CFR 1508.8 &1508.27] Recorded below is the qualitative and quantitative significance of the effects of the proposal on the character, features and resources of the project area. Each factor has been evaluated and documented, as appropriate and in proportion to its relevance to the proposed action. Verifiable source documentation has been provided and described in support of each determination, as appropriate. Credible, traceable and supportive source documentation for each authority has been provided. Where applicable, the necessary reviews or consultations have been completed and applicable permits of approvals have been obtained or noted. Citations, dates/names/titles of contacts, and page references are clear. Additional documentation is attached, as appropriate. **All conditions, attenuation or mitigation measures have been clearly identified.**

Impact Codes: Use an impact code from the following list to make the determination of impact for each factor.
(1) Minor beneficial impact
(2) No impact anticipated
(3) Minor Adverse Impact – May require mitigation
(4) Significant or potentially significant impact requiring avoidance or modification which may require an Environmental Impact Statement

Environmental Assessment Factor	Impact Code	Impact Evaluation
LAND DEVELOPMENT		
Conformance with Plans / Compatible Land Use and Zoning / Scale and Urban Design	2	The proposed Project involves the construction of a new municipal building adjacent to an existing municipal building for the purpose of re-locating the Village of Owego DPW and Code Enforcement offices above the 100-year floodplain. The proposed Project would not alter the existing land use and is in accordance with local zoning. In 2012, the New York State Department of State (NYS DOS) provided funding to the Village of Owego to create a Long Term Community Recovery Strategy (LTCRS). One of the strategies identified in the Village of Owego Comprehensive Plan Update (2013), is the support of recovery projects identified in the Village of Owego LTCRS. One of the flood mitigation and prevention projects recommended in the LTCRS, is building a new Town of Owego and Village of Owego DPW facility that would not be affected by future flood events. The proposed Project would not cause changes to the current use or community characteristics of the local area, and it will not alter residential or commercial density. Residential and commercial infrastructure in the area would not be adversely affected. The construction of the new municipal facility two (2) feet above the 100-year floodplain is anticipated to reduce flood risk to municipal operations and provide savings to the Village of Owego by avoiding flood damaged during future storms.

Soil Suitability/ Slope/ Erosion/ Drainage/ Storm Water Runoff	2	Per the USGS Topographic Map for the Project area, the Project is located in an area of minimal topographic relief, as shown in **Attachment 1**. The proposed Project activities would not significantly alter the slope of the Project area. USDA NRCS maps provide information on soils types and properties that influence development sites. The information is intended for land use planning, evaluating land use alternatives, and planning site investigations prior to design and construction. According to the USDA NRCS soil suitability and limitations for Small Commercial Buildings use classifications, the Project area is classified as "not limited," as documented in **Attachment 7**. The same report also notes that the Project area soils are also classified as farmland of statewide importance or prime farmland areas. The proposed Project is located in a commercial/industrial/residential area, and the Project area is not proposed to be converted to another use. As such, it is expected that soils will not limit the Project's implementation. No potential undesirable impacts are anticipated. The proposed Project will incorporate mitigative measures and best management practices (BMPs) to reduce construction-related pollutants and runoff. All work will be completed utilizing engineered site plans and in accordance with all applicable federal, state and local regulations, laws and permit requirements and conditions, including state and local building codes. Thus, no potential impacts from erosion, drainage, or stormwater runoff are anticipated.
Hazards and Nuisances including Site Safety and Noise	2	Based on a review of available environmental records for the proposed Project and surrounding area, the proposed Project is unlikely to be impacted by hazardous materials, contamination, toxic chemicals and gases, and radioactive substances. No hazards are anticipated to affect the health and safety of occupants or conflict with the intended utilization of the proposed Project. An in depth review of New York State and Federal records, including maps, NYSDEC reports, and EPA reports, are included as part of **Attachment 5**. The proposed Project is not a noise-sensitive use. The proposed activities are not expected to generate excessive noise during the short-term construction work and will adhere to local noise control standards. The proposed Project will be completed in accordance with all applicable federal, state and local permit requirements and conditions. Therefore, the proposed Project would not generate any significant adverse noise impacts.
Energy Consumption	2	The proposed Project involves the construction of a new municipal building adjacent to an existing municipal building

		for the purpose of re-locating the Village of Owego DPW and Code Enforcement offices above the 100-year floodplain. The Project would not cause an increase in long-term energy consumption.

Environmental Assessment Factor	Impact Code	Impact Evaluation
SOCIOECONOMIC		
Employment and Income Patterns	2	The proposed Project would not adversely affect employment opportunities or income patterns, would not impact traffic and potential customer access to residences and businesses in the area, either during construction or operation.
Demographic Character Changes, Displacement	2	The Project is not expected to cause any change in the demographic character of the area. This Project does not involve residential development or activities. There is no known potential for the Project to cause the displacement of individuals or families, destroy jobs, local businesses or public community facilities, or disproportionately affect particular populations.

Environmental Assessment Factor	Impact Code	Impact Evaluation
COMMUNITY FACILITIES AND SERVICES		
Educational and Cultural Facilities	2	The proposed Project will not introduce any new populations that would increase the student population of the area. As such, the proposed Project would not have an impact on educational or cultural facilities.
Commercial Facilities	2	The proposed Project will not introduce any new commercial development that would require additional retail services or other commercial facilities.
Health Care and Social Services	2	The proposed Project will not introduce any new development that would require the availability of additional routine or emergency health services.
Solid Waste Disposal / Recycling	2	The proposed Project will not introduce new development that would generate solid wastes on an ongoing basis. All construction wastes will be appropriately disposed of according to the type of waste generated and construction waste management practices in an appropriate, legally compliant receiving facility.
Waste Water / Sanitary Sewers	2	The proposed Project will not introduce any new development that would generate waste water. Mitigative measures and BMPs will be utilized during construction to prevent soil

		and/or debris from being washed off-site. No additional waste water will be generated during construction.
Water Supply	2	The proposed Project involves the construction of a new municipal building adjacent to an existing municipal building for the purpose of re-locating the Village of Owego DPW and Code Enforcement offices above the 100-year floodplain. The proposed Project will not increase demand for water. As such, the proposed Project will not have an impact on local water supplies.
Public Safety - Police, Fire and Emergency Medical	2	The proposed Project will not generate new demand for police, fire, or emergency services. The proposed Project will not impact traffic. Therefore, there will be no adverse effect on the access and travel time for emergency services.
Parks, Open Space and Recreation	2	This Project will not introduce new development that would generate new demand for open space resources or impede open space access. No parks, open space areas, or recreational facilities are located adjacent to the Project area. Therefore, the Project is not expected to encroach onto parkland nor is it expected to have adverse effects on park resources, including visual, ecological, and recreational resources.
Transportation and Accessibility	2	Besides limited trips generated by construction vehicles during a short window of construction, the proposed Project will not introduce new development that generates continuing demand for transportation access or transportation services.

Environmental Assessment Factor	Impact Code	Impact Evaluation
NATURAL FEATURES		
Unique Natural Features, Water Resources	2	According to the NYSDEC, there are no unique geological features located on or adjacent to the proposed Project. According to NYSDEC's Environmental Resource Map, the proposed Project is not located in or adjacent to "Significant Natural Communities." This data layer identifies locations within ½ mile of an identified significant natural community as shown in **Attachment 3**. The proposed Project is not located adjacent to or within federally or state designated wetlands and is not anticipated to impact wetlands or other water resources. The Project will contribute to community resiliency and reduce its vulnerability to flooding. Project activities will be completed in accordance with all applicable federal, state and local permit requirements and conditions. Additionally, best management practices and erosion control measures will be incorporated into the

		proposed Project. As such, no adverse potential impacts are anticipated from the proposed Project. **Watershed Analysis** The Project is located within one of the 47 identified watersheds with watershed plans in NYS[9]. The Susquehanna River Watershed[10] is noted to have water quality that is generally satisfactory, with the most widespread impacts associated with agricultural and other non-point sources that contribute nutrients, such as nitrogen and phosphorus, and sediment to the waters[11]. However, the Project at an existing park does not involve agricultural use or other practices that would significantly contribute to this non-point source contamination. Thus, no potential impacts from the Project are anticipated. The proposed Project will not introduce new demand for groundwater or surface water, nor would the proposed Project introduce septic flows that may affect groundwater. Additionally, the proposed Project will not significantly increase impervious surfaces or impede waters during future storm or flooding events. Therefore, unique natural features or water resources are not expected to be permanently affected by this proposed Project.
Vegetation, Wildlife	2	The proposed Project will not introduce nuisance or non-indigenous species of vegetation. Moreover, the Project will involve work in areas that are previously disturbed in a commercial/industrial/residential area. The Project will not damage or destroy rare, threatened, or endangered species or their habitat. The Project will have no effect on state or federally threatened species, endangered species or species of concern. The NYSDEC ERM and EAF mapper documents, USFWS Official Species List and IPaC Resource List, and USFWS No Effect Determination letter are annexed in **Attachment 6**.
Other Factors		There are no other factors identified or evaluated for the proposed Project.

Additional Studies Performed:

- Village of Owego Municipal Building Feasibility Study
- Village of Owego Municipal Building Schematic Design Narrative

[9] NYSDEC Watershed Plans. http://www.dec.ny.gov/chemical/99985.html
[10] NYSDEC Susquehanna River Watershed. http://www.dec.ny.gov/lands/48020.html
[11] Chesapeake Bay Watershed Implementation Plan: Phase I and Phase II. http://www.dec.ny.gov/lands/33279.html#Plan

GOSR Environmental Review Record
Village of Owego Municipal Facility Project

Attachments:

- **Attachment 1:** Project Location Maps
  - Street Map
  - Topographic Map
  - Aerial Photograph
- **Attachment 2:** Project Design Plans and Documentation
  - Village of Owego Municipal Facility Project Design Plans (02/28/2019)
  - Municipal Building Flood Volume Calculations (04/11/2019)
- **Attachment 3:** Project Reference Maps
  - Airport Hazards Map
  - USFWS Coastal Barrier Resources System Map
  - NYS DOS Coastal Boundary Map
  - NYSDEC & NPS Wild and Scenic Rivers Map
  - NYSDEC Critical Environmental Areas Map
  - NYSDEC Potential Environmental Justice Areas Map
- **Attachment 4:**
  - Floodplain Management and Protection of Wetlands Determination
    - Appendix I
      - USFWS NWI Map
      - NYSDEC Wetlands and Waterways Map
    - Appendix II
      - FEMA National Flood Hazard Layer Map
    - Appendix III
      - Notice of Early Public Review
    - Appendix IV
      - Notice of Early Public Review Affidavit
- **Attachment 5:** HUD Environmental Standards Review
  - NYS Environmental Report Maps, EPA NEPAssist Map
  - U.S. EPA-permitted Facilities located within 3,000 feet of the Project Area and in non-compliance with the EPA permit requirements
  - NYSDEC Reports for Spills, Environmental Remediation Sites, or Bulk Storage Sites located on, or in close proximity to, the Subject Property
- **Attachment 6:** Endangered Species Consultation Documents
  - NHP Documentation
  - USFWS Consultation Acknowledgment
  - USFWS Consultation Letter
- **Attachment 7:** Agricultural and NRCS Soils Documentation
  - New York State Agricultural Districts Map
  - USDA NRCS Soil Resource Map
  - USDA NRCS Small Commercial Buildings Report
  - USDA NRCS Farmland Classification Report
- **Attachment 8:** SHPO Documentation
  - SHPO Response
- **Attachment 9:** EPA Sole Source Aquifer Analysis
  - EPA Sole Source Aquifer Map
  - EPA Sole Source Aquifer Consultation Response
  - EPA Sole Source Aquifer Consultation Package

List of Sources, Agencies and Persons Consulted [40 CFR 1508.9(b)]**:**

- Federal Aviation Administration (FAA)
- Federal Emergency Management Agency (FEMA)
- United States Environmental Protection Agency (USEPA)
- United States Fish and Wildlife Service (USFWS)
- United States Department of Agriculture (USDA)
- Natural Resources Conservation Service (NRCS)
- United States Department of Interior (USDOI)
- National Parks Service (NPS)
- United States Geological Survey (USGS)
- New York State Department of Environmental Conservation (NYSDEC)
- New York State Department of Environmental Protection (NYSDEP)
- Natural Heritage Program (NHP)
- New York State Department of State (NYSDOS)
- New York State Historic Preservation Office (SHPO)
- Tribal Historic Preservation Office (THPO)
- Tioga County 2020 Strategic Plan: Establishing Priorities for Government Operations. Adopted July 12, 2016
- NYRCR Tioga: NY Rising Community Reconstruction Plan, March 2014.
- Tioga County Comprehensive Emergency Management Plan (CEMP), 2013.
- Village of Owego: Comprehensive Plan Update, 2013.
- Long Term Community Recovery Strategy: Village of Owego, New York, September 2013.
- Tioga County Hazard Mitigation Plan Update (Volume II Draft, November 2018)
- ClimAID: the Integrated Assessment for Effective Climate Change Adaptation Strategies in New York State

List of Permits Potentially Required:

- Village of Owego Floodplain Development Permit
- Village of Owego Building Permit

Public Outreach [24 CFR 50.23 & 58.43]**:**

- Publication of a Combined Final Notice and Public Review of a Proposed Activity in a 100-year Floodplain and Wetland, Notice of Finding of No Significant Impact, and Notice of Intent to Request Release of Funds (June 20, 2019)
- Publication of Notice of Early Public Review of a Proposed Activity in 100-year Floodplain and Wetland (May 30, 2019)
- Village of Owego Board of Trustees Meetings (October 1, 2018; October 15, 2018; and January 22, 2019)
- Preliminary Project Meeting between NYSDEC, Delta Engineers, and the Village of Owego (October 3, 2018)

Cumulative Impact Analysis [24 CFR 58.32]**:**

This Project was evaluated according to the Project Design Plans included as **Attachment 2**. There are no other known future projects in the vicinity of the Project that would create environmental or social impacts in the area. The Project is compatible with the existing land use and will contribute to community resiliency and its reduced vulnerability to flooding.

Alternatives [24 CFR 58.40(e); 40 CFR 1508.9]
The primary alternative for the proposed Project is the "no action" alternative. This alternative means that there would be no work undertaken to alleviate the flood problem, rehabilitate the Project area, or mitigate the future flooding. This would leave the surrounding community vulnerable to future flood damage. The "no action" alternative would provide no protection to the residential neighborhoods and greater community from future flood events, as mitigation would be compromised due to lack of financial support. Thus, the "no action" alternative is not feasible in relation to the desired objective of creating area resiliency to future flooding events.

The Village of Owego Municipal Building Feasibility Study was performed to identify alternatives and generate a feasibility study to provide a municipal building that can remain functional in the event of a cataclysmic flood. Three sites within the Village of Owego limits were reviewed as potential locations for a new municipal building: between Mountain Road and Prospect Street, 60 Southside Drive, and the site of the proposed Project. After discussions between the Village of Owego, DASNY, and GOSR, it was determined that the site of current DPW was the most cost effective of the three options, and would meet the functional, technical, and financial needs to construct a new municipal building.

Summary of Findings and Conclusions:
The preceding Statutory Checklist, Environmental Assessment Checklist and the discussion below document that the proposed work will comply with regulations in 24 CFR part 58 and that there are no direct or cumulative adverse environmental impacts anticipated as a result of the proposed action.

Mitigation Measures and Conditions [40 CFR 1505.2(c)]
Summarize below all mitigation measures adopted by the Responsible Entity to reduce, avoid, or eliminate adverse environmental impacts and to avoid non-compliance or non-conformance with the above-listed authorities and factors. These measures/ conditions must be incorporated into project contracts, development agreements, and other relevant documents. The staff responsible for implementing and monitoring mitigation measures should be clearly identified in the mitigation plan.

Any change to the approved scope of work will require re-evaluation by the Certifying Officer for compliance with NEPA and other laws and Executive Orders.

This review does not address all federal, state and local requirements. Acceptance of federal funding requires recipient to comply with all federal, state and local laws. Failure to obtain all appropriate federal, state and local environmental permits and clearances may jeopardize federal funding.

If there is any unanticipated discovery of endangered or threatened species, cultural resources, soils contamination, or any other conditions affecting the factors, executive orders, stipulations, and/ or regulations discussed within this assessment, work shall be halted immediately and the appropriate agency will be consulted before work can be resumed.

Law, Authority, or Factor	Mitigation Measure
Flood Insurance	The Project is located within a FEMA[12] Special Flood Hazard Area (FIRM 36107C0382E, effective 4/17/2012). The Village of Owego participates in the National Flood Insurance Program. Flood insurance coverage must be obtained and

[12] FEMA Flood Map Portal. https://msc.fema.gov/portal

	continued for the life of the proposed building. The Village of Owego shall be required to show proof of current flood insurance, and when received, proof of current flood insurance shall be appended to the ERR.
Floodplain Management	An 8-step Floodplain Management Determination was completed pursuant to 24 CFR 55.20. It was determined that there is no better alternative than to provide funding for the Project. The existing Village of Owego DPW building is located in the 100-year floodplain and is prone to flooding. The proposed Project mitigates the threat of flooding by constructing a new municipal facility that will be elevated two (2) feet above the 100-year floodplain, which will protect the building from future storm events and allow the Village of Owego to respond better and recover more quickly from future flood events. The creation of a floodplain mitigation area will offset the floodplain loss that will result from infilling the floodplain in order to site the new building above the 100-year floodplain. The Project will involve the addition of approximately 2,312.08 cubic feet (cf) of fill material to the floodplain in order to site the new municipal building two (2) feet above the BFE. However, approximately 381.96 cf of material will be removed from the floodplain during construction and approximately 2,102.69 cf of material will be removed from the floodplain to create a stormwater retention area, which will offset the addition of material to the floodplain necessary to site the municipal building two (2) feet above the BFE. A net total of 172.57 cf of material will be removed from the floodplain, which indicates that the Project will create approximately 172.57 cf of additional storage in the floodplain. A Floodplain Development Permit will be obtained from the Village of Owego prior to the commencement of construction. Project activities will be completed in accordance with all applicable federal, state and local laws, regulations, and permit requirements and conditions.

Standard Conditions for All Projects

Any change to the approved scope of work will require re-evaluation by the Certifying Officer for compliance with NEPA and other laws and Executive Orders.

This review does not address all federal, state and local requirements. Acceptance of federal funding requires recipient to comply with all federal state and local laws. Failure to obtain all appropriate federal, state and local environmental permits and clearances may jeopardize federal funding.

Determination:

☒ **Finding of No Significant Impact** [24 CFR 58.40(g)(1); 40 CFR 1508.27]
The project will not result in a significant impact on the quality of the human environment.

☐ **Finding of Significant Impact** [24 CFR 58.40(g)(2); 40 CFR 1508.27]
The project may significantly affect the quality of the human environment.

Preparer Signature:  Date: June 20, 2019

Name/Title/Organization: Kristofer Mierisch, Senior Environmental Analyst

Certifying Officer Signature:  Date: June 20, 2019

Name/Title: Lori A. Shirley – Environmental Certifying Officer

This original, signed document and related supporting material must be retained on file by the Responsible Entity in an ERR for the activity/project (ref: 24 CFR Part 58.38) and in accordance with recordkeeping requirements for the HUD program(s).

Attachment 1

Project Location Maps

Street Map
Topographic Map
Aerial Photograph

Street Map

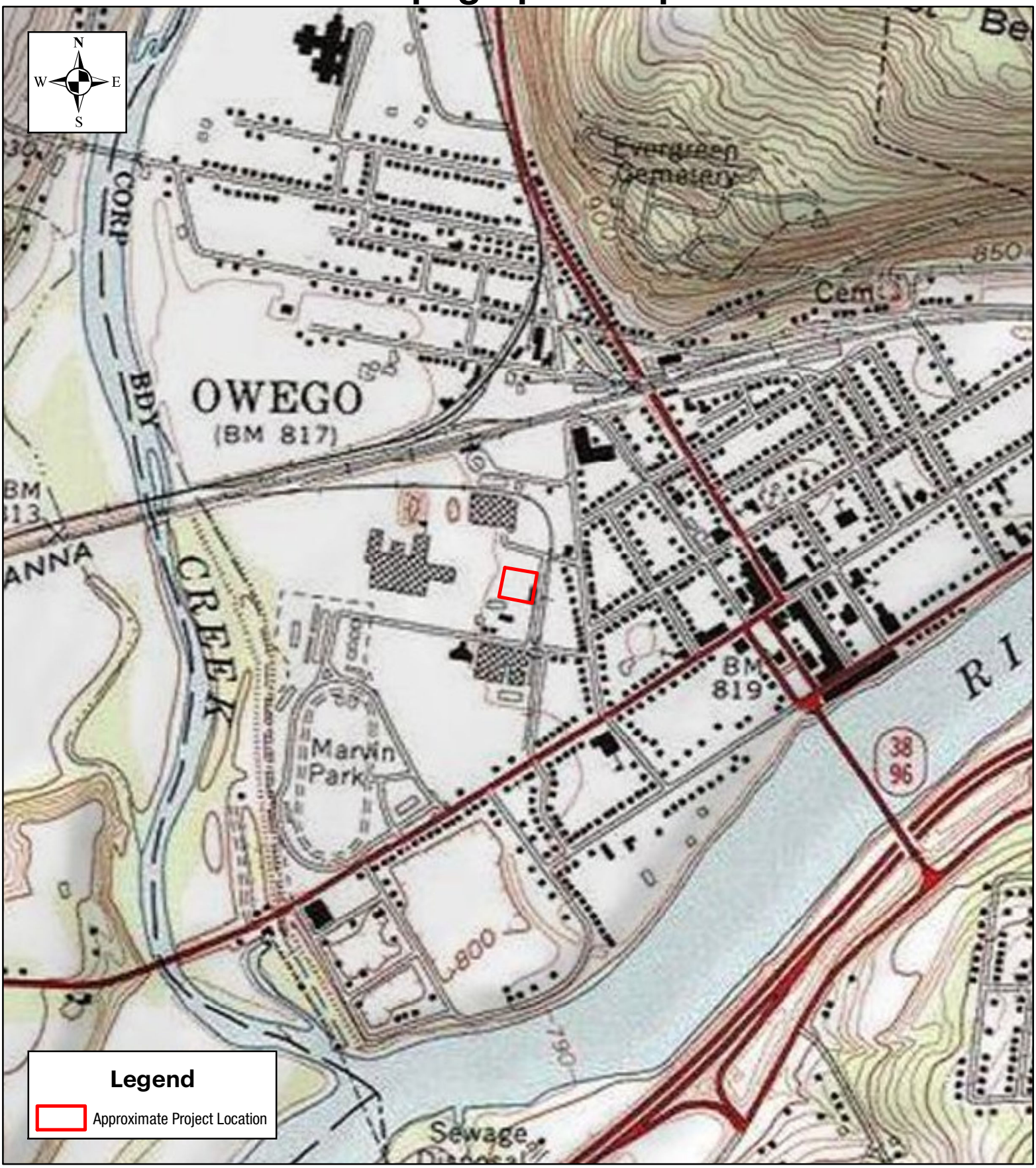
Tectonic

1:10,000

0 500 1,000 2,000 Feet

Village of Owego Municipal Facility Project
20 Elm Street
Village of Owego
Town of Owego
Tioga County, New York

Topographic Map



Tectonic

1:10,000

0 500 1,000 2,000 Feet

Village of Owego Municipal Facility Project
20 Elm Street
Village of Owego
Town of Owego
Tioga County, New York

Aerial Map

Tectonic

1:2,000

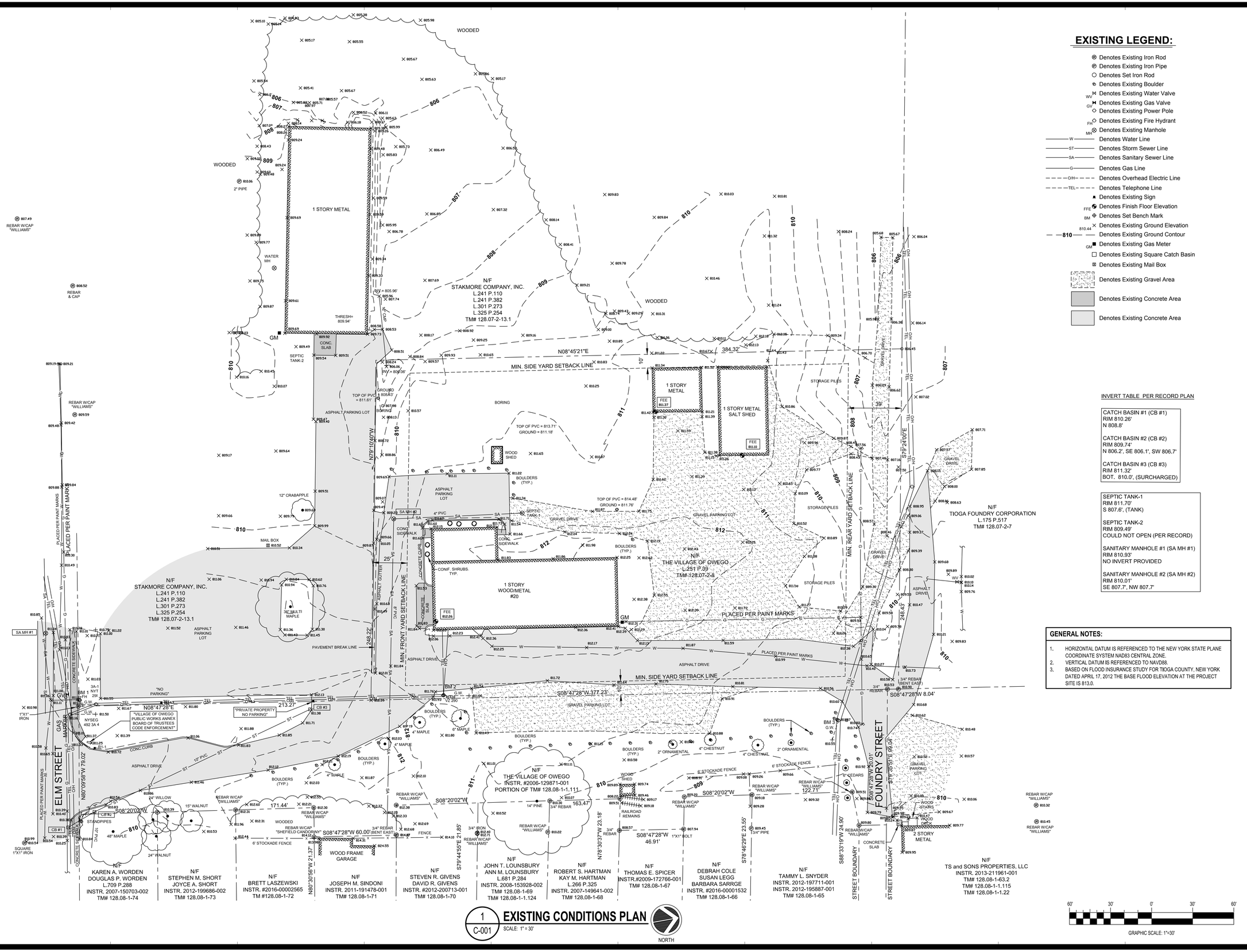
0 100 200 400 Feet

Village of Owego Municipal Facility Project
20 Elm Street
Village of Owego
Town of Owego
Tioga County, New York

Attachment 2

Project Design Plans and Documentation

Village of Owego Municipal Facility
Project Design Plans (02/28/2019)
Municipal Building Flood Volume Calculations (04/11/2019)



EXISTING LEGEND:

- Denotes Existing Iron Rod
- Denotes Existing Iron Pipe
- Denotes Set Iron Rod
- Denotes Existing Boulder
- WV — Denotes Existing Water Valve
- GV — Denotes Existing Gas Valve
- Denotes Existing Power Pole
- FH — Denotes Existing Fire Hydrant
- MH — Denotes Existing Manhole
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- SA — Denotes Sanitary Sewer Line
- G — Denotes Gas Line
- O/H — Denotes Overhead Electric Line
- TEL — Denotes Telephone Line
- Denotes Existing Sign
- FFE — Denotes Finish Floor Elevation
- BM — Denotes Set Bench Mark
- 810.44 — Denotes Existing Ground Elevation
- 810 — Denotes Existing Ground Contour
- GM — Denotes Existing Gas Meter
- Denotes Existing Square Catch Basin
- Denotes Existing Mail Box
- Denotes Existing Gravel Area
- Denotes Existing Concrete Area
- Denotes Existing Concrete Area

INVERT TABLE PER RECORD PLAN

CATCH BASIN #1 (CB #1)
RIM 810.26'
N 808.8'

CATCH BASIN #2 (CB #2)
RIM 809.74'
N 806.2', SE 806.1', SW 806.7'

CATCH BASIN #3 (CB #3)
RIM 811.32'
BOT. 810.0', (SURCHARGED)

SEPTIC TANK-1
RIM 811.70'
S 807.6', (TANK)

SEPTIC TANK-2
RIM 809.49'
COULD NOT OPEN (PER RECORD)

SANITARY MANHOLE #1 (SA MH #1)
RIM 810.93'
NO INVERT PROVIDED

SANITARY MANHOLE #2 (SA MH #2)
RIM 810.01'
SE 807.7', NW 807.7'

GENERAL NOTES:

1. HORIZONTAL DATUM IS REFERENCED TO THE NEW YORK STATE PLANE COORDINATE SYSTEM NAD83 CENTRAL ZONE.
2. VERTICAL DATUM IS REFERENCED TO NAVD88.
3. BASED ON FLOOD INSURANCE STUDY FOR TIOGA COUNTY, NEW YORK DATED APRIL 17, 2012 THE BASE FLOOD ELEVATION AT THE PROJECT SITE IS 813.0.

1 / C-001 **EXISTING CONDITIONS PLAN**

SCALE: 1" = 30'

NORTH

60' 30' 0' 30' 60'

GRAPHIC SCALE: 1"=30'

NEW YORK STATE OF OPPORTUNITY. DASNY

515 Broadway, Albany, New Yrok 12207-2964
One Penn Plaza, 52 Floor, NY, NY 10119-0098
539 Franklin Stree, Buffalo, NY 14202-1109
WWW.DASNY.ORG

Consultants:

DELTA ENGINEERS, ARCHITECTS & LAND SURVEYORS
860 HOOPER ROAD
ENDWELL, NY, 13760
607-231-6600

Governor's Office of Storm Recovery

VILLAGE OF OWEGO
Coolest Small Town – 2009

Project Key

REVISIONS

Rev No.	Description	Date:

Client
VILLAGE OF OWEGO

Project Title
NEW MUNICIPAL BUILDING
VILLAGE OF OWEGO, NY

Drawing Title
EXISTING CONDITIONS PLAN

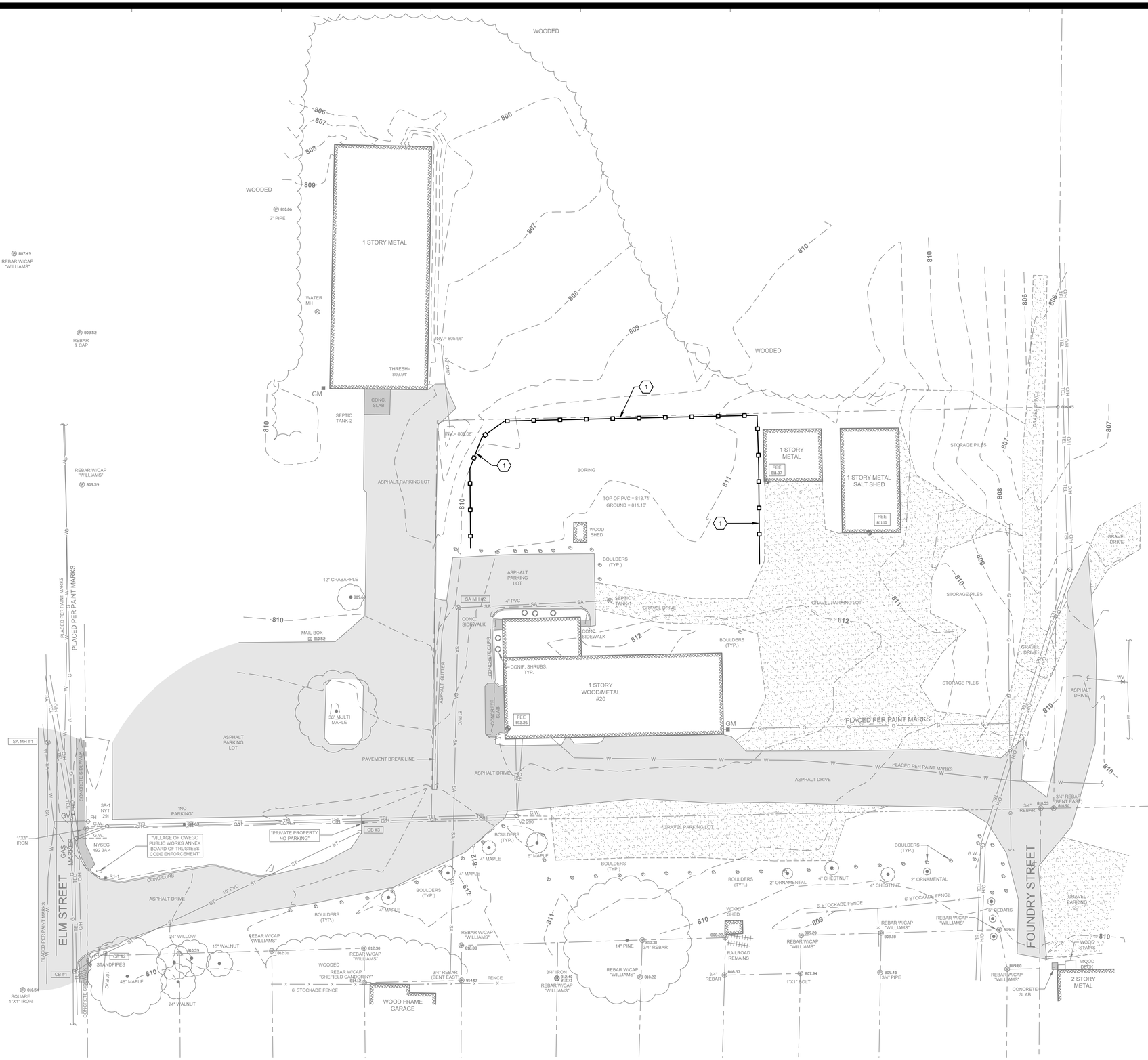
Phase
60% SUBMISSION

Drawn By:	Checked By:	Date:
RH	CLZ	02/28/2019

Seal & Signature

DASNY Project No.
339920

Drawing Number
C-001



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- Denotes Existing Concrete Area

PROPOSED LEGEND:

SILT FENCE	

KEY NOTES	
1	PROVIDE SILT FENCE. SEE DETAIL 9/C-300.

1 / C-101 **EROSION AND SEDIMENT CONTROLS PLAN**
SCALE: 1" = 30'

NORTH

60' 30' 0' 30' 60'
GRAPHIC SCALE: 1"=30'

NEW YORK STATE OF OPPORTUNITY. DASNY

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Governor's Office of Storm Recovery

VILLAGE OF OWEGO
Coolest Small Town – 2009

Project Key

REVISIONS

Rev No.	Description	Date:

Client
VILLAGE OF OWEGO

Project Title
NEW MUNICIPAL BUILDING

VILLAGE OF OWEGO, NY

Drawing Title
EROSION AND SEDIMENT CONTROLS PLAN

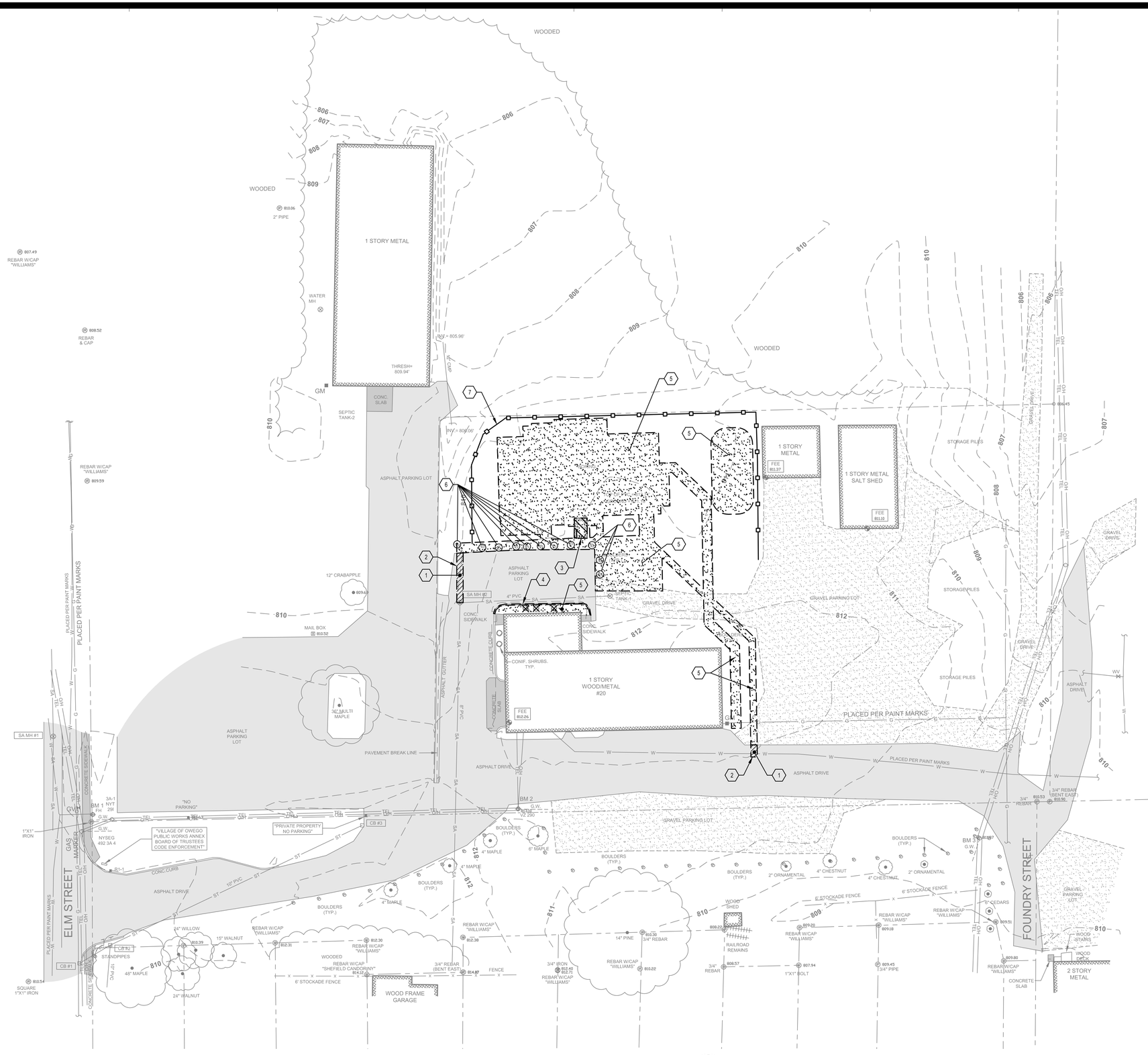
Phase
60% SUBMISSION

Drawn By:	Checked By:	Date:
RH	CLZ	02/28/2019

Seal & Signature

DASNY Project No:
339920

Drawing Number
C-101



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REMOVAL LEGEND:

CURB DEMOLITION	
ASPHALT PAVEMENT DEMOLITION	
BUILDING DEMOLITION	
LANDSCAPE DEMOLITION	
TREE DEMOLITION	

REMOVAL KEY NOTES

#	
1	REMOVE ASPHALT PAVEMENT.
2	NEATLY SAW-CUT EXISTING ASPHALT PAVEMENT.
3	REMOVE EXISTING STRUCTURE.
4	REMOVE CONCRETE CURB.
5	CLEAR AND GRUB LANDSCAPE AREA EXCAVATE TO REQUIRED SUB-GRADE ELEVATION.
6	RELOCATE EXISTING BOULDERS ALONG ASPHALT PARKING LOT. COORDINATE WITH OWNER FOR STORAGE LOCATION.
7	INSTALL SILT FENCING PRIOR TO ANY EARTHWORK. REFER TO PLAN SHEET C-101.

GENERAL NOTES:

1. ALL ASPHALT, CONCRETE, CONCRETE CURB, SUBBASE, AND SUBGRADE MATERIAL REMOVED SHALL BE DISPOSED OF OFF SITE AND OUR OF THE DESIGNATED FLOOD PLAIN AREA.

CALL BEFORE YOU DIG:
NYS CODE RULE 753 REQUIRES THAT YOU CALL BEFORE YOU DIG
Know what's below. Call 811 before you dig.
CALL DIG SAFELY NEW YORK AT 811 OR 1-800-962-7962

1 C-102 **REMOVALS PLAN**
SCALE: 1" = 30'

NORTH

60' 30' 0' 30' 60'
GRAPHIC SCALE: 1"=30'

NEW YORK STATE OF OPPORTUNITY. DASNY

515 Broadway, Albany, New Yrok 12207-2964
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Consultants:

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860 HOOPER ROAD
ENDWELL, NY, 13760
607-231-6600

Governor's Office of Storm Recovery

VILLAGE OF OWEGO
Coolest Small Town – 2009

Project Key

REVISIONS

Rev No	Description	Date:

Client
VILLAGE OF OWEGO

Project Title
NEW MUNICIPAL BUILDING
VILLAGE OF OWEGO, NY

Drawing Title
REMOVALS PLAN

Phase
60% SUBMISSION

Drawn By:	Checked By:	Date:
RH	CLZ	02/28/2019

Seal & Signature

DASNY Project No: 339920

Drawing Number: C-102

ZONING INFORMATION

MUNICIPALITY	VILLAGE OF OWEGO	
STATUS	ZONED "I" INDUSTRIAL DISTRICT	
ITEM	REQUIRED	PROPOSED*
Minimum Lot Size	9,000 S.F.	± 95,300 S.F.
Minimum Lot Width	60 Feet	± 248 Feet
Maximum Lot Coverage	38,158.56 S.F. (40% Lot Coverage Including Accessory Buildings)	Maintenance Garage - 7,947.01 S.F. Storage Building - 1,166.24 S.F. Storage Building - 2,345.57 S.F. Proposed Building - 5,400 S.F. Total - 16,858.82 S.F.
Maximum Building Footprint	N/A	N/A
Maximum Building Height	45 Feet (Not To Exceed Three Stories)	32 Feet
Minimum Front Yard Setback	25 Feet	36 Feet 6 Inches
Minimum Side Yard Setback	10 Feet	2 Feet 8 Inches
Minimum Rear Yard Setback	10% Lot Depth (39')	274 Feet
VILLAGE CODES		
Address	20 Elm Street, Owego, NY 13827	
Code Enforcement Officer	Chuck Bement	
Phone Number	(607) 687-1221	

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PROPOSED LEGEND:

ASPHALT PAVEMENT	
CONCRETE	
GRAVEL	
UTILITY POLE	
OVERHEAD ELECTRIC	O/H
UNDERGROUND ELECTRIC	U/E
UNDERGROUND WATER	W
UNDERGROUND SANITARY SEWER	SA
SANITARY SEWER MANHOLE	SA
UNDERGROUND FIBER OPTIC	FO
PARKING SPACE COUNT	6

KEY NOTES

#	
1	REPLACE ASPHALT PAVEMENT. MATCH EXISTING AND SEAL JOINTS.
2	PROVIDE 8" PVC SANITARY SEWER LINE.
3	PROVIDE 1.25" DOMESTIC WATER SERVICE LINE.
4	UTILITY POLE. SEE ELECTRICAL PLANS FOR MORE INFORMATION.
5	OVERHEAD UTILITY. SEE ELECTRICAL PLANS FOR MORE INFORMATION.
6	UNDERGROUND UTILITY. SEE ELECTRICAL PLANS FOR MORE INFORMATION.
7	CORE INTO EXISTING STRUCTURE AND CONNECT SANITARY SEWER PIPE.
8	PROVIDE 1" X 1.25" INCREASER.
9	PARKING DELINEATION LINES. NO STRIPING TO BE PROVIDED.
10	PROVIDE CONCRETE WHEEL STOP FOR EACH PARKING. SEE DETAIL 10/C300.
11	CONCRETE LANDINGS, STAIRS, AND RAMPS. SEE STRUCTURAL PLANS FOR MORE INFORMATION.
12	PROVIDE GRAVEL PAVEMENT.
13	PROVIDE 2.5" CONDUIT SLEEVE AND HAND HOLES FOR FUTURE FIBER OPTIC LINE.
14	CONSTRUCT FLOOD PLAIN MITIGATION AREA. RESTORE SURFACE PER DETAIL 3/C-300.
15	PROVIDE 6" HDPE STORM PIPE WITH END SECTION.
16	PROVIDE 1" X 1" TEE.

GENERAL NOTES:

1. IT IS THE CONTRACTORS RESPONSIBILITY TO CONFIRM ALL EXISTING CONDITIONS, LOCATIONS AND ELEVATIONS PRIOR TO THE START OF WORK. ANY DISCREPANCIES TO BE DETERMINED AND THE ENGINEER TO BE NOTIFIED.
2. BASED ON FLOOD INSURANCE STUDY FOR TIOGA COUNTY, NEW YORK DATED APRIL 17, 2012 THE BASE FLOOD ELEVATION AT THE PROJECT SITE IS 813.0.

1 C-200 **SITE PLAN**
SCALE: 1" = 30'

NORTH

60' 30' 0' 30' 60'
GRAPHIC SCALE: 1"=30'

NEW YORK STATE OF OPPORTUNITY. DASNY

515 Broadway, Albany, New Yrok 12207-2964
One Penn Plaza, 52 Floor, NY, NY 10119-0098
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Consultants:

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860 HOOPER ROAD
ENDWELL, NY, 13760
607-231-6600

Governor's Office of Storm Recovery

VILLAGE OF OWEGO
Coolest Small Town – 2009

Project Key

REVISIONS

Rev No	Description	Date:

Client
VILLAGE OF OWEGO

Project Title
NEW MUNICIPAL BUILDING
VILLAGE OF OWEGO, NY

Drawing Title
SITE PLAN

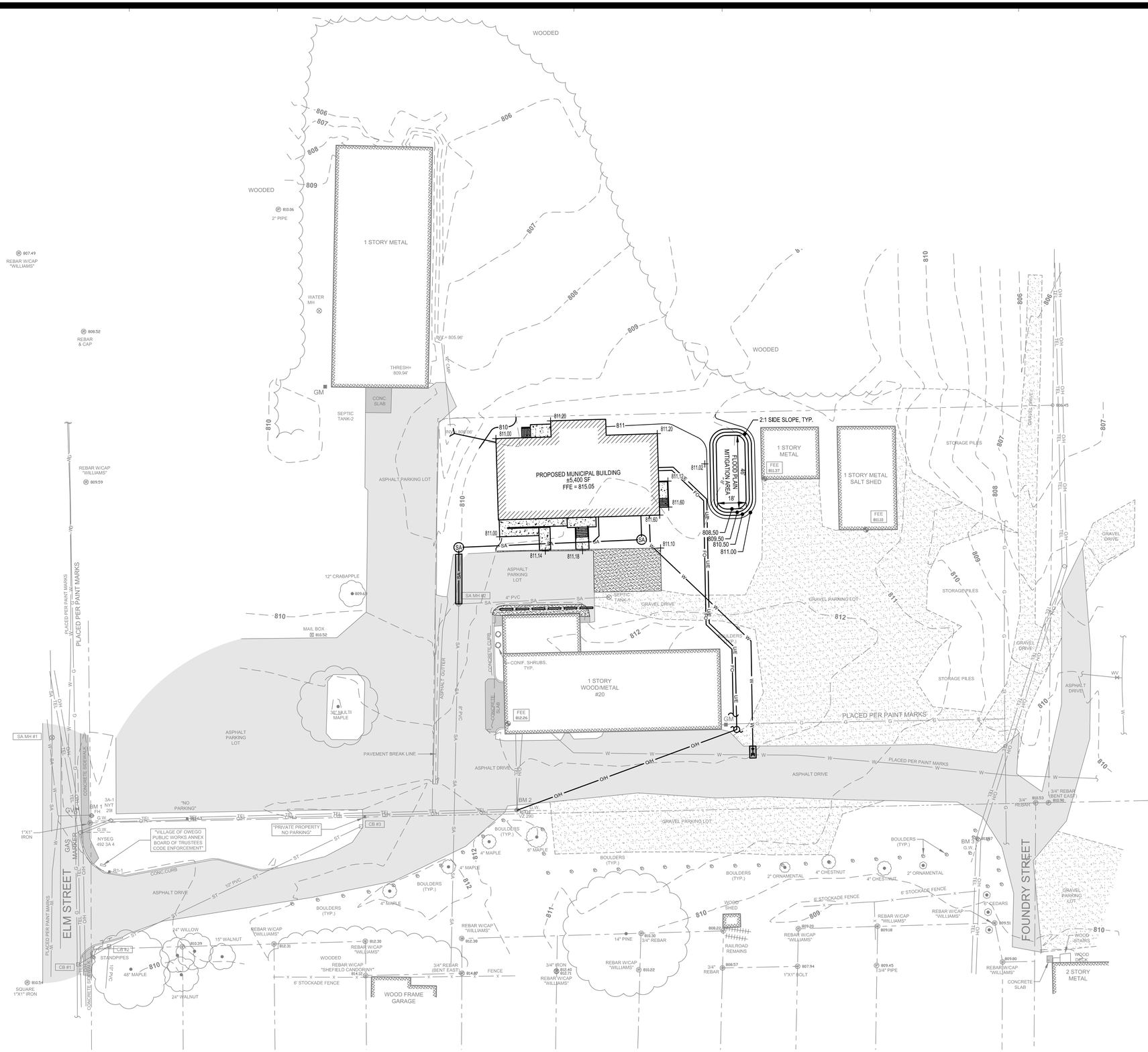
Phase
60% SUBMISSION

Drawn By:	Checked By:	Date:
RH	CLZ	02/28/2019

Seal & Signature

DASNY Project No: 339920

Drawing Number C-200



1 C-201 **GRADAING PLAN**

SCALE: 1" = 30'

NORTH

EXISTING LEGEND:

- Denotes Existing Iron Rod
- Denotes Existing Iron Pipe
- Denotes Set Iron Rod
- Denotes Existing Boulder
- WV — Denotes Existing Water Valve
- GV — Denotes Existing Gas Valve
- Denotes Existing Power Pole
- FH — Denotes Existing Fire Hydrant
- MH — Denotes Existing Manhole
- W — Denotes Water Line
- ST — Denotes Storm Sewer Line
- SA — Denotes Sanitary Sewer Line
- G — Denotes Gas Line
- O/H — Denotes Overhead Electric Line
- TEL — Denotes Telephone Line
- Denotes Existing Sign
- FFE — Denotes Finish Floor Elevation
- BM — Denotes Set Bench Mark
- 810.44 — Denotes Existing Ground Elevation
- 810 — Denotes Existing Ground Contour
- GM — Denotes Existing Gas Meter
- Denotes Existing Square Catch Basin
- Denotes Existing Mail Box
- Denotes Existing Gravel Area
- Denotes Existing Concrete Area
- Denotes Existing Concrete Area

PROPOSED LEGEND:

ASPHALT PAVEMENT	
CONCRETE	
GRAVEL	
RESTORED LAWN	
UTILITY POLE	
OVERHEAD ELECTRIC	O/H
UNDERGROUND ELECTRIC	U/E
UNDERGROUND WATER	W
UNDERGROUND SANITARY SEWER	SA
SANITARY SEWER MANHOLE	SA
UNDERGROUND FIBER OPTIC	FO
MAJOR CONTOUR	810
MINOR CONTOUR	811
SPOT ELEVATION	808.50

GENERAL NOTES:

1. IT IS THE CONTRACTORS RESPONSIBILITY TO CONFIRM ALL EXISTING CONDITIONS, LOCATIONS AND ELEVATIONS PRIOR TO THE START OF WORK. ANY DISCREPANCIES TO BE DETERMINED AND THE ENGINEER TO BE NOTIFIED.
2. ANY SOIL OR OTHER MATERIAL REMOVED FROM THE SITE IS TO BE HAULED OFF SITE AND DISPOSED OF OUTSIDE THE VILLAGE OF OWEGO FLOOD PLAIN LIMITS.
3. BASED ON FLOOD INSURANCE STUDY FOR TIOGA COUNTY, NEW YORK DATED APRIL 17, 2012 THE BASE FLOOD ELEVATION AT THE PROJECT SITE IS 813.0.

60' 30' 0' 30' 60'

GRAPHIC SCALE: 1"=30'

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515 Broadway, Albany, New Yrok 12207-2964
One Penn Plaza, 52 Floor, NY, NY 10119-0098
539 Franklin Stree, Buffalo, NY 14202-1109
WWW.DASNY.ORG

Consultants:

DELTA ENGINEERS, ARCHITECTS & LAND SURVEYORS
860 HOOPER ROAD
ENDWELL, NY, 13760
607-231-6600

Governor's Office of Storm Recovery

VILLAGE OF OWEGO
Coolest Small Town – 2009

Project Key

REVISIONS

Rev No	Description	Date:

Client

VILLAGE OF OWEGO

Project Title

NEW MUNICIPAL BUILDING

VILLAGE OF OWEGO, NY

Drawing Title

GRADING PLAN

Phase

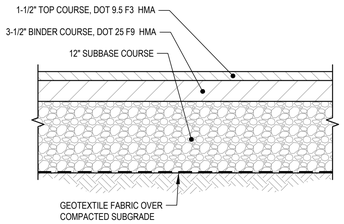
60% SUBMISSION

Drawn By:	Checked By:	Date:
RH	CLZ	02/28/2019

Seal & Signature

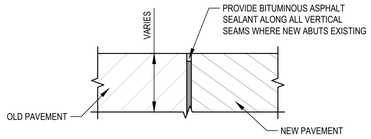
DASNY Project No: 339920

Drawing Number C-201



1 C-300 STANDARD DUTY ASPHALT PAVEMENT DETAIL

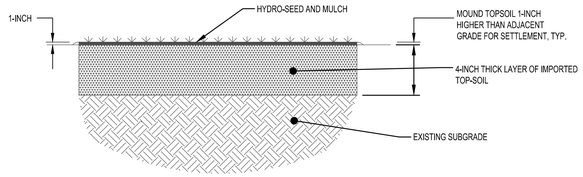
SCALE: NONE



EXPANSION JOINT

2 C-300 ASPHALT JOINT DETAIL

SCALE: NONE

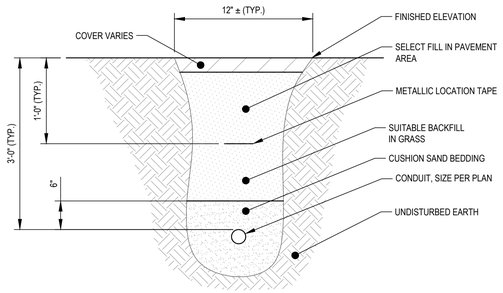


NOTES:

SEE LANDSCAPE DETAILS AND SPECIFICATIONS FOR MORE INFORMATION REGARDING RESTORATION WORK.

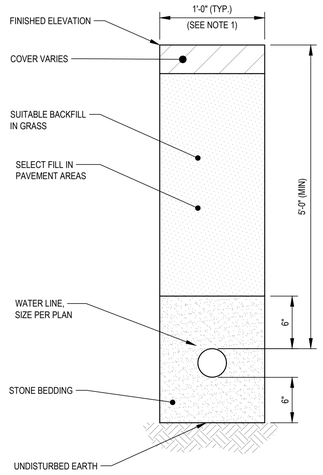
3 C-300 LANDSCAPE RESTORATION DETAIL

SCALE: NONE



4 C-300 DIRECT BURIAL UTILITY DETAIL

SCALE: NONE

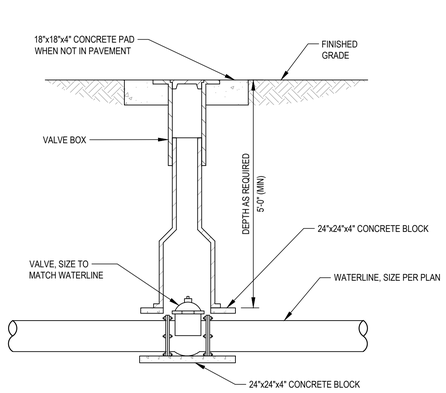


NOTES:

1. TRENCH WIDTH ASSUMES EXCAVATION WITH DITCH-WITCH EQUIPMENT.

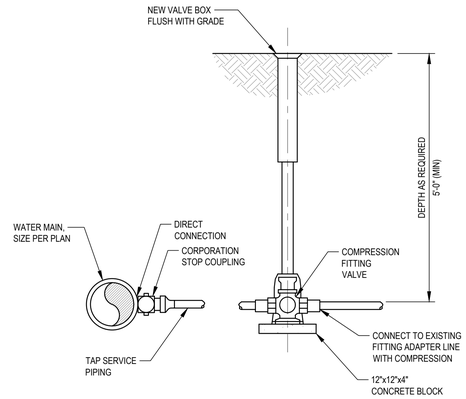
5 C-300 WATER SERVICE TRENCH DETAIL

SCALE: NONE



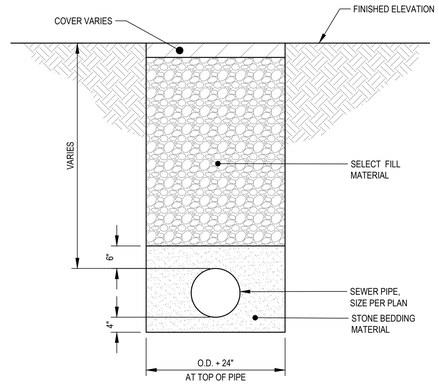
6 C-300 VALVE AND VALVE BOX DETAIL

SCALE: NONE



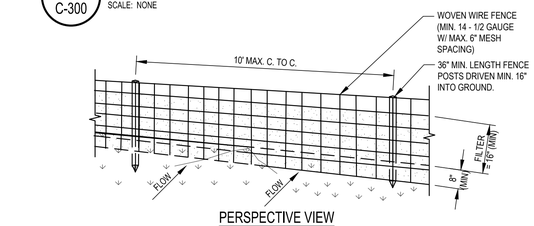
7 C-300 WATER SERVICE CONNECTION DETAIL

SCALE: NONE

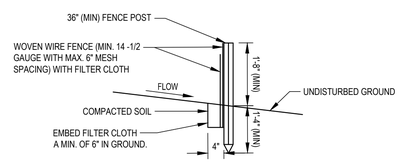


8 C-300 STORM AND SANITARY SEWER TRENCH SECTION DETAIL

SCALE: NONE



PERSPECTIVE VIEW



SECTION VIEW

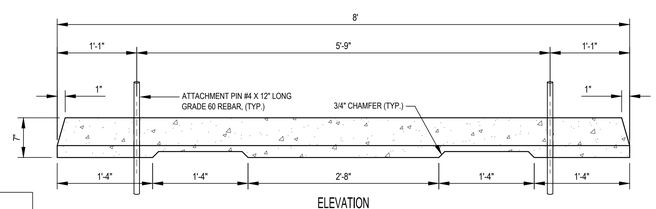
CONSTRUCTION SPECIFICATIONS:

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 12 -1/2 GAUGE, 6" MAXIMUM MESH OPENING.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.
4. PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE, OR APPROVED EQUIVALENT.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

9 C-300 SILT FENCE DETAIL

SCALE: NONE

CROSS-SECTION



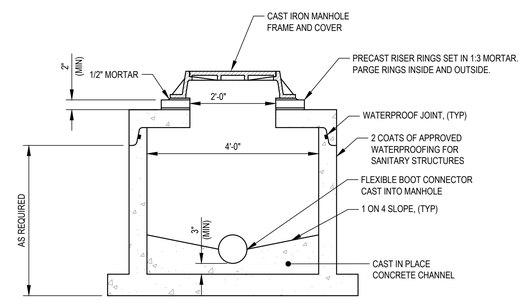
ELEVATION

GENERAL NOTES:

1. CONSTRUCTION AND MATERIALS SHALL MEET REQUIREMENTS OF ITEM 537 "WHEEL STOPS".
2. CONCRETE FOR WHEEL STOP: MINIMUM 3,000 PSI IN 28 DAYS
3. REINFORCING STEEL: PER ASTM A615, GRADE 60
4. ATTACHMENT PINS SHALL HAVE 7 INCH EMBEDMENT.

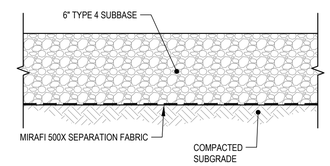
10 C-300 PRECAST CONCRETE CURB STOP DETAIL

SCALE: NONE



11 C-300 PRECAST CONCRETE MANHOLE DETAIL

SCALE: NONE



12 C-300 GRAVEL PAVEMENT DETAIL

SCALE: NONE

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Governor's Office of Storm Recovery

VILLAGE OF OWEGO
Coolest Small Town – 2009

Project Key

REVISIONS

Rev No	Description	Date:

Client

VILLAGE OF OWEGO

Project Title

NEW MUNICIPAL BUILDING

VILLAGE OF OWEGO, NY

Drawing Title

DETAILS

Phase

60% SUBMISSION

Drawn By:	Checked By:	Date:
RH	CLZ	02/28/2019

Seal & Signature

DASNY Project No: 339920

Drawing Number

C-300

DELTA
ENGINEERS, ARCHITECTS, & LAND SURVEYORS
4873 NYS Route 5
Vernon, NY 13476
(315) 953-4200 Fax: (315) 953-4202

Village of Owego Municipal Building

DELTA PROJECT # 2016.194.013
SHEET NO. 1 OF 6
CALCULATED BY CLZ DATE 4/11/2019
CHECKED BY DLF DATE 4/11/2019

I. Determining Area of Engineered Openings for Building Foundation

Total enclosed building area 5,485 sf ±

Typical Single Vent Flood Openings

1Wx1H
200 sf/Vent System with Air

3 Vent System
600 sf coverage

1Wx1H
200 sf/Vent System

1 Vent System
200 sf coverage

Multi Vent Flood Openings

3Wx2H
1,200 sf/Multi Vent System

4 Multi Vent System
4,800 sf coverage

Total Vent Flood Openings

Total = (3)*(1Wx1H)+(1)(1Wx1H)+(4)*(3Wx2H)

Total =	5,600 sf coverage

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Village of Owego Municipal Building

DELTA PROJECT # 2016.194.013
SHEET NO. 2 OF 6
CALCULATED BY CLZ DATE 4/11/2019
CHECKED BY DLF DATE 4/11/2019

II. Floodplain Work Summary

Total Volume Removed from Floodplain at Site	381.96	cf
Total Volume Added to Floodplain at Site	2,312.08	cf
Difference in Volume in Floodplain	1,930.12	cf
Volume of Stormwater Retention Area at Site	**2,102.69**	**cf**
Revised Volume in Floodplain*	-172.57	cf

*Note the negative number indicates additional storage in floodplain

General Note: Any suitable material removed during utility trench work will be replaced in trench or removed off site and out of the designated floodplain area.

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Village of Owego Municipal Building

DELTA PROJECT # 2016.194.013
SHEET NO. 3 OF 6
CALCULATED BY CLZ DATE 4/11/2019
CHECKED BY DLF DATE 4/11/2019

III. Floodplain Work - Removal Volume Calculations

Actual Floodplain Elevation Provided by DEC	812.98	
Assumed Floodplain Elevation for Calculations	813.00	

Wood Shed to be Removed

Ground Elevation at Structure	811.00	
Base Flood Elevation Difference	2.00	ft
Area of Structure	101.98	sf
Volume of Wood Shed Structure	203.96	cf

Portion of Landscaping & Curbing to be Removed

Change in Elevation	0.5	ft
Area	356	sf
Volume of Landscaping & Curbing	178.00	cf

Total Volume Removed at Site	**381.96**	**cf**

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Village of Owego Municipal Building

DELTA PROJECT # 2016.194.013
SHEET NO. 4 OF 6
CALCULATED BY CLZ DATE 4/11/2019
CHECKED BY DLF DATE 4/11/2019

IV. Floodplain Work - Added Volume Calculations

Actual Floodplain Elevation Provided by DEC	812.98
Assumed Floodplain Elevation for Calculations	813.00

Proposed Building Foundation in Floodplain

Ground Elevation at Structure	811.00 ±
Base Flood Elevation Difference	2.00 ft
Foundation Wall, 1' Width	639.6 cf
Pier Supports, 1'x1' (6 Piers)	12 cf
Utility Chase, 2'x2'	8 cf
Total Volume of Foundation Below BFE	659.60 cf

Proposed Ramp in Floodplain

Ground Elevation at Structure	811.00 ±
Base Flood Elevation Difference	2.00 ft
Volume of Ramp Foundation, Area 1	126.10 cf
Volume of Ramp Foundation, Area 2	105.30 cf
Volume of Ramp Foundation, Area 3	374.20 cf
Total Volume of Ramp Below BFE	605.60 cf

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Village of Owego Municipal Building

DELTA PROJECT # 2016.194.013
SHEET NO. 5 OF 6
CALCULATED BY CLZ DATE 4/11/2019
CHECKED BY DLF DATE 4/11/2019

Proposed Front Stairway in Floodplain

Ground Elevation at Structure	811.00	±
Base Flood Elevation Difference	2.00	ft
Volume of Front Stair Foundation, Area 1	219.60	cf
Volume of Front Stair Foundation, Area 2	24.60	cf
Volume of Front Stair Foundation, Area 3	20.50	cf
Volume of Front Stair Foundation, Area 4	16.40	cf
Volume of Front Stair Foundation, Area 5	12.30	cf
Total Volume of Stairway Below BFE	293.40	cf

Proposed Side Stairway in Floodplain

Ground Elevation at Structure	811.60	±
Base Flood Elevation Difference	1.40	ft
Volume of Side Stair Foundation, Area 1	87.45	cf
Volume of Side Stair Foundation, Area 2	15.95	cf
Volume of Side Stair Foundation, Area 3	13.05	cf
Volume of Side Stair Foundation, Area 4	8.12	cf
Total Volume of Stairway Below BFE	124.57	cf

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4873 NYS Route 5
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Village of Owego Municipal Building

DELTA PROJECT # 2016.194.013
SHEET NO. 6 OF 6
CALCULATED BY CLZ DATE 4/11/2019
CHECKED BY DLF DATE 4/11/2019

Proposed Rear Stairway in Floodplain

Ground Elevation at Structure	811.00	±
Base Flood Elevation Difference	2.00	ft
Volume of Rear Stair Foundation, Area 1	205.28	cf
Volume of Rear Stair Foundation, Area 2	17.88	cf
Volume of Rear Stair Foundation, Area 3	14.63	cf
Volume of Rear Stair Foundation, Area 4	11.38	cf
Volume of Rear Stair Foundation, Area 5	8.13	cf
Total Volume of Stairway Below BFE	257.28	cf

Proposed Soil Fill Around Building in Floodway

Volume of Fill	371.63	cf

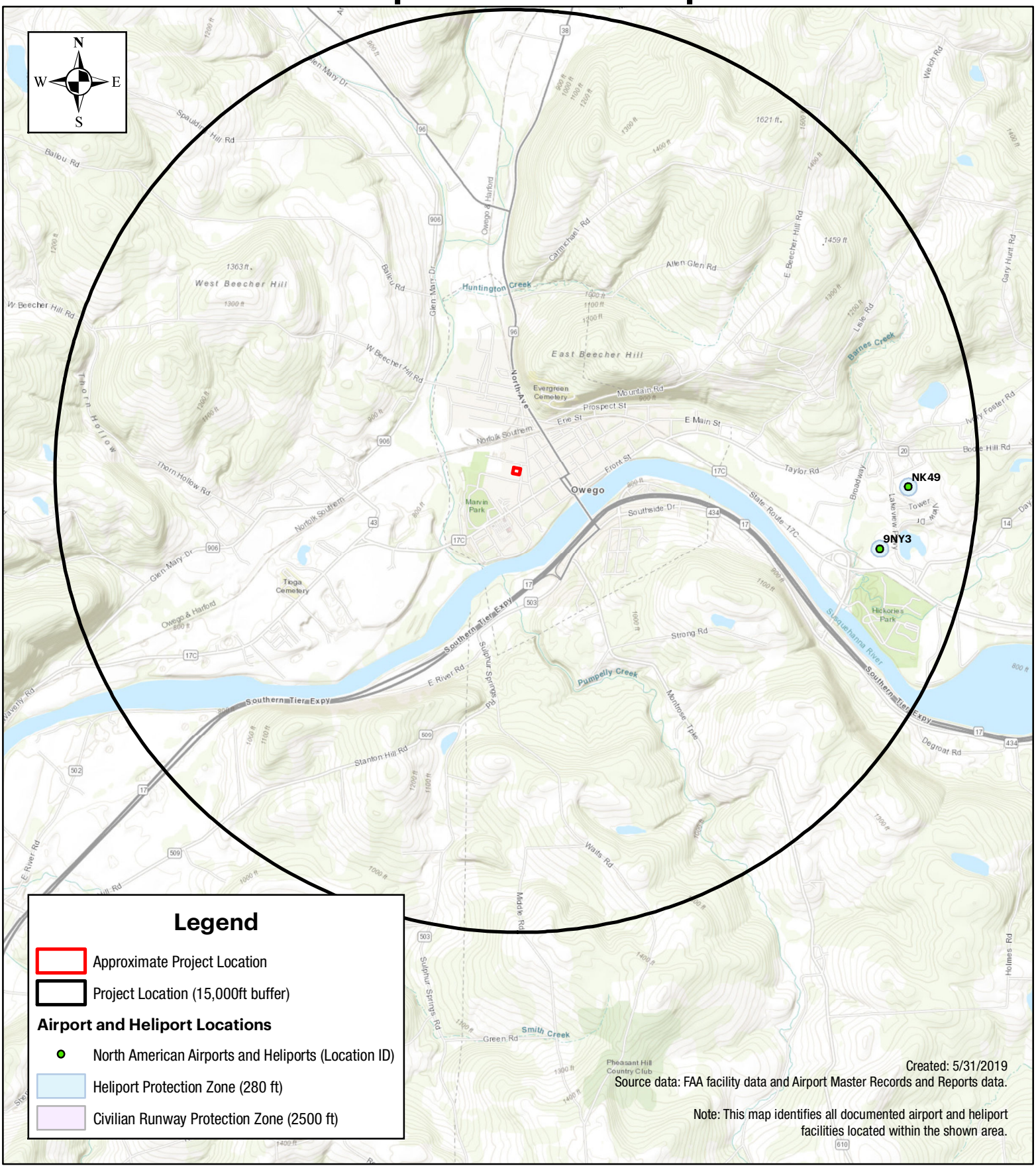
Total Volume Added at Site	**2,312.08**	**cf**

Attachment 3

Project Reference Maps

Airport Hazards Map
USFWS Coastal Barrier Resources System Map
NYS DOS Coastal Boundary Map
NYSDEC & NPS Wild and Scenic Rivers Map
NYSDEC Critical Environmental Areas Map
NYSDEC Potential Environmental Justice Areas Map

Airport Hazards Map



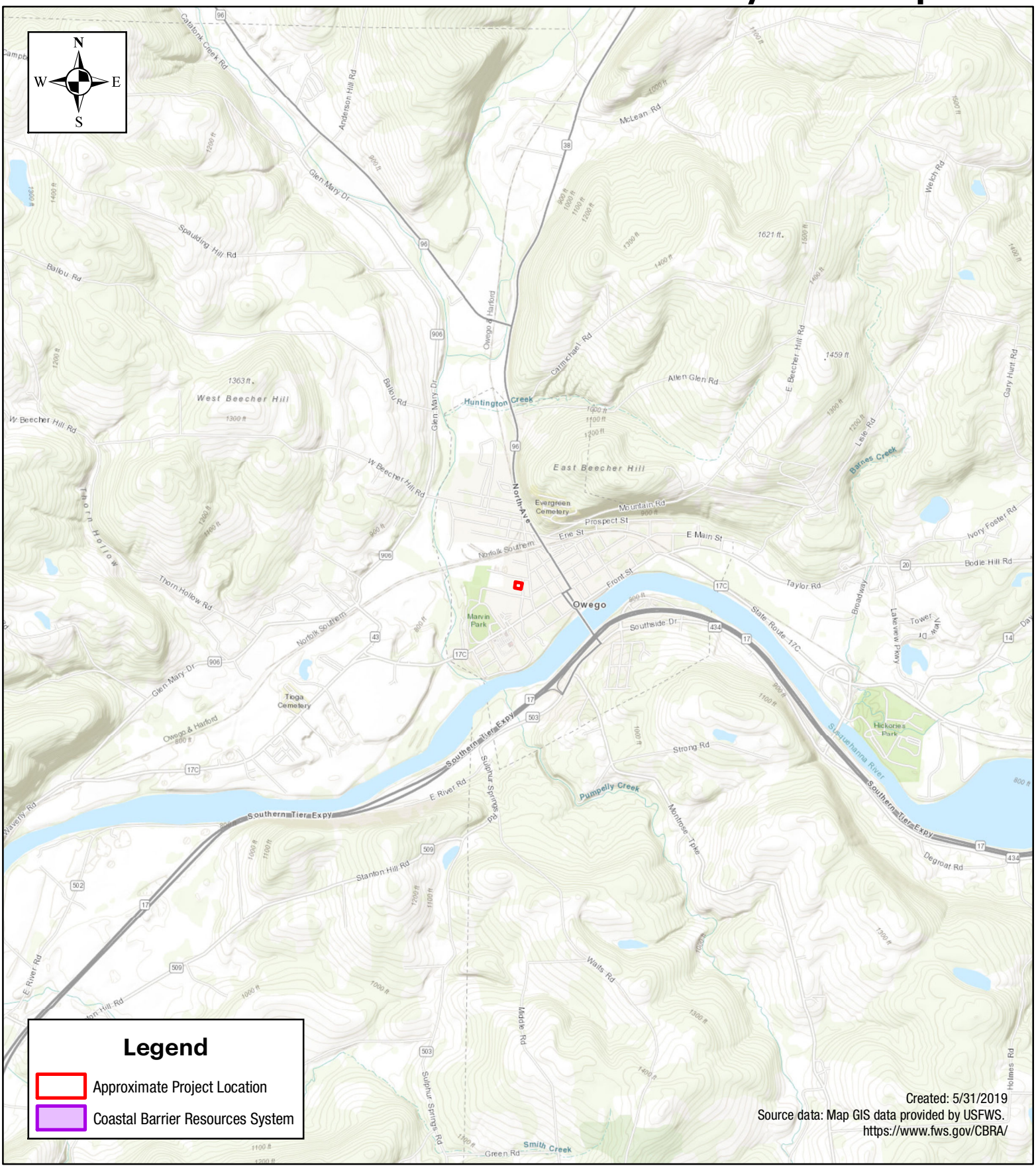
Tectonic

1:50,000

0 2,500 5,000 10,000 Feet

Village of Owego Municipal Facility Project
20 Elm Street
Village of Owego
Town of Owego
Tioga County, New York

USFWS Coastal Barrier Resources System Map



Tectonic

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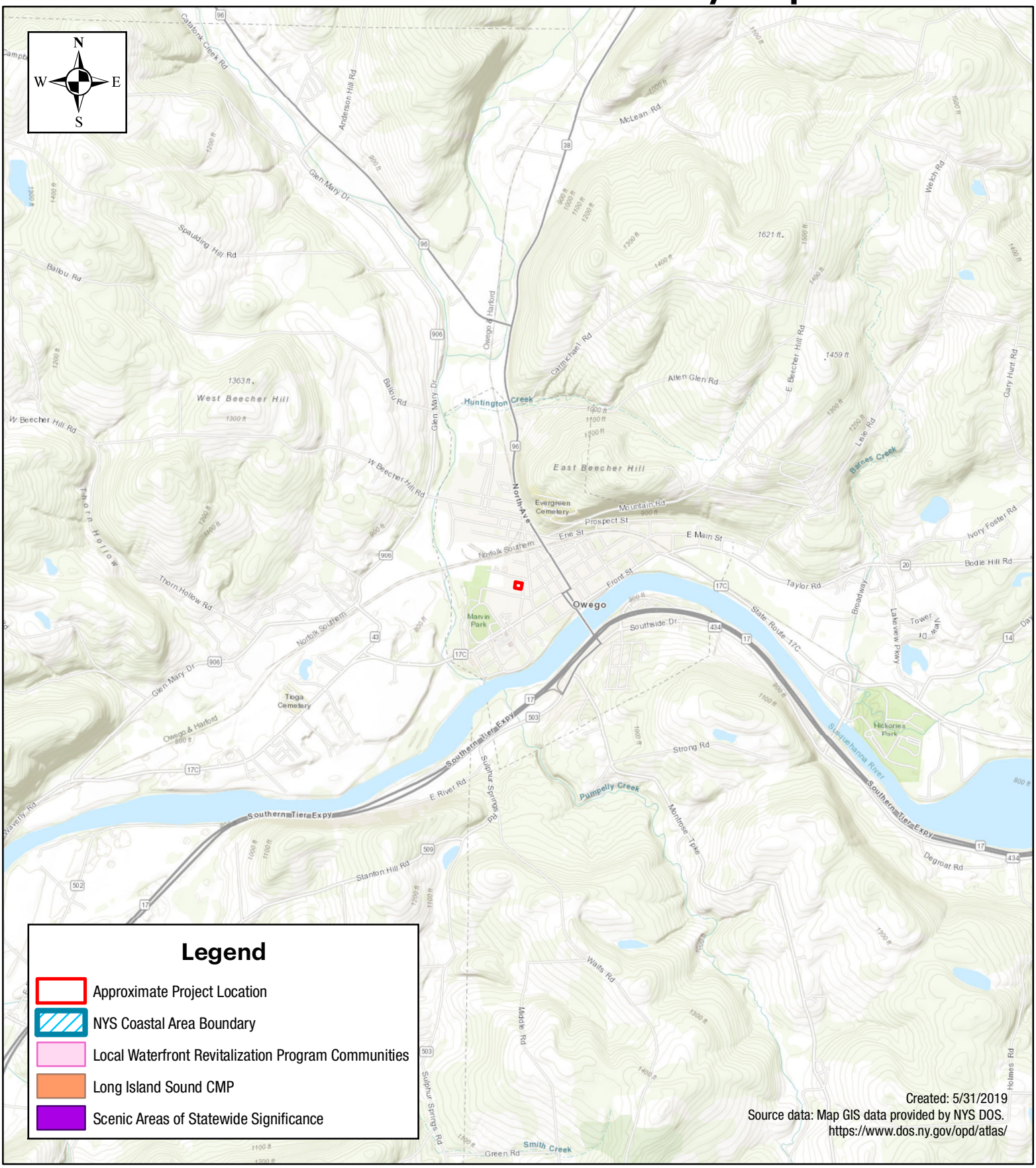
0 2,500 5,000 10,000 Feet

Village of Owego Municipal Facility Project
20 Elm Street
Village of Owego
Town of Owego
Tioga County, New York

NYS DOS Coastal Boundary Map



Legend

- Approximate Project Location
- NYS Coastal Area Boundary
- Local Waterfront Revitalization Program Communities
- Long Island Sound CMP
- Scenic Areas of Statewide Significance

Created: 5/31/2019
Source data: Map GIS data provided by NYS DOS.
https://www.dos.ny.gov/opd/atlas/

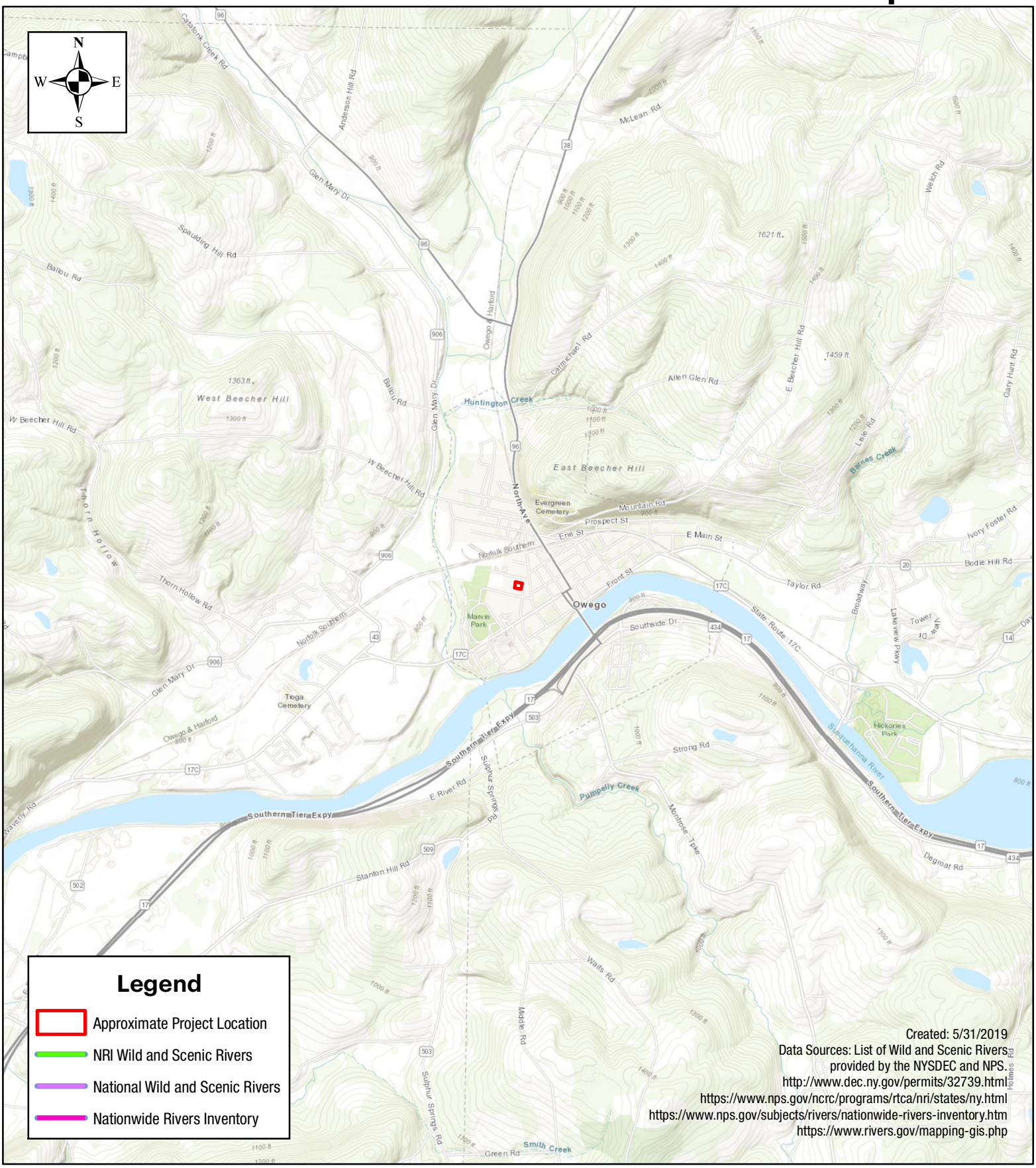
Tectonic

1:50,000

0 2,500 5,000 10,000 Feet

Village of Owego Municipal Facility Project
20 Elm Street
Village of Owego
Town of Owego
Tioga County, New York

NYSDEC & NPS Wild and Scenic Rivers Map



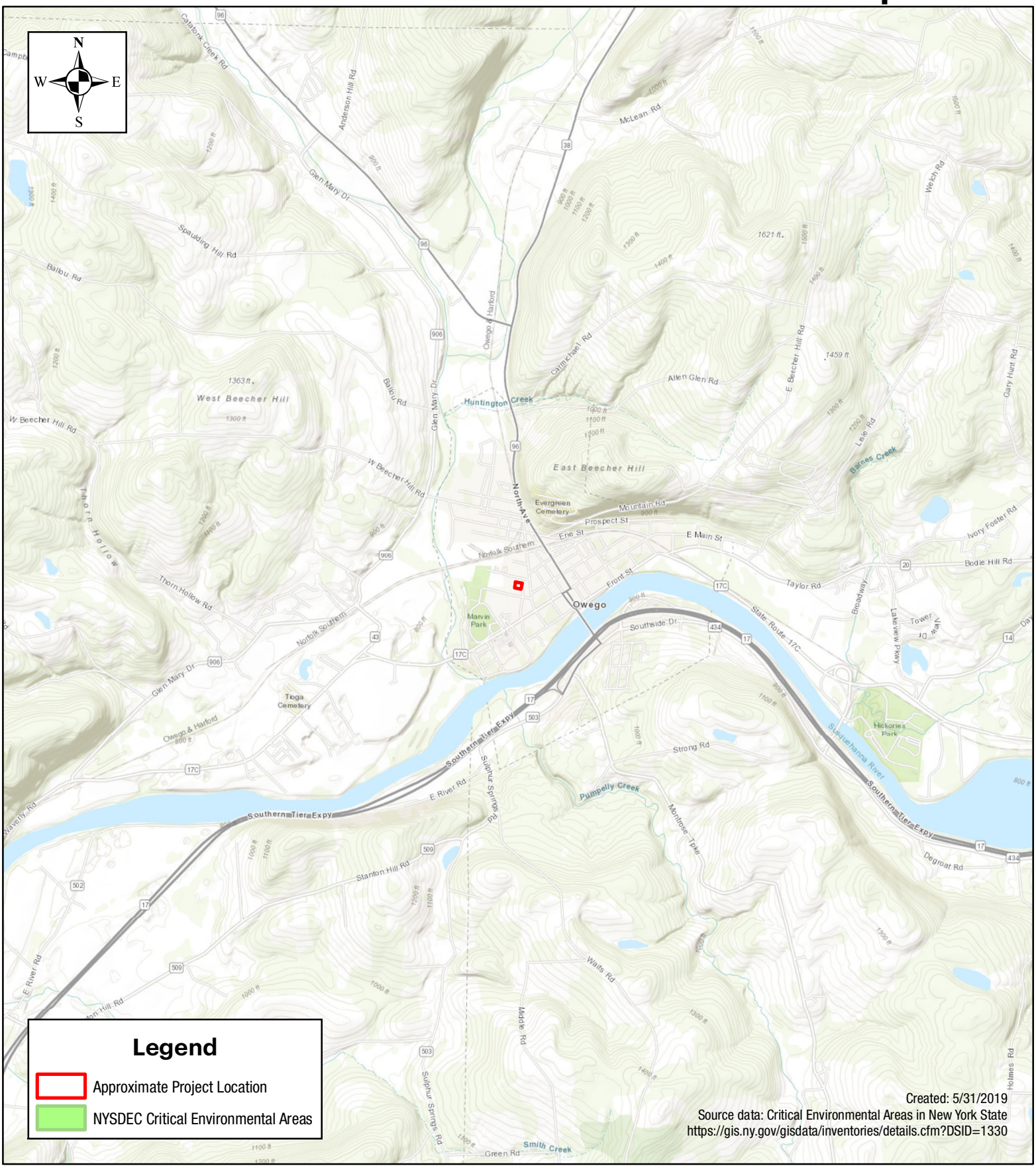
Tectonic

1:50,000

0 2,500 5,000 10,000 Feet

Village of Owego Municipal Facility Project
20 Elm Street
Village of Owego
Town of Owego
Tioga County, New York

NYSDEC Critical Environmental Areas Map



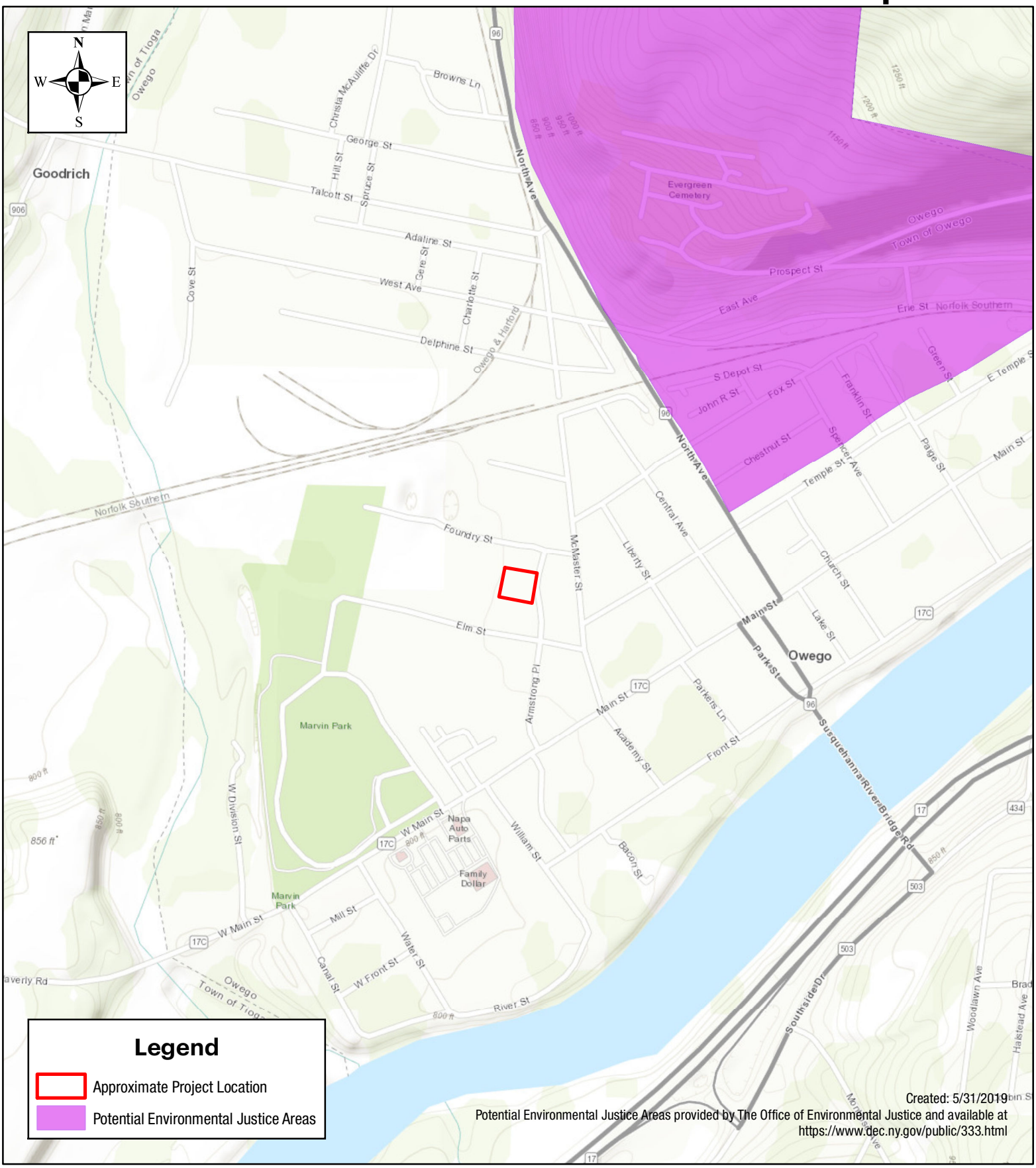
Tectonic

1:50,000

0 2,500 5,000 10,000 Feet

Village of Owego Municipal Facility Project
20 Elm Street
Village of Owego
Town of Owego
Tioga County, New York

Potential Environmental Justice Areas Map



Tectonic

1:10,000

0 500 1,000 2,000 Feet

Village of Owego Municipal Facility Project
20 Elm Street
Village of Owego
Town of Owego
Tioga County, New York

Attachment 4

Floodplain Management &
Wetlands Protection Determination

Village of Owego Municipal Facility Project

Floodplain Management and Wetlands Protection Determination

Commercial & Economic Development Initiative within

NY State Community Development Block Grant Disaster Recovery Program

June 20, 2019

Introduction & Overview

The purpose of Executive Order 11988, Floodplain Management, is "to avoid to the extent possible the long- and short-term adverse impacts associated with occupancy and modification of floodplains and to avoid direct or indirect support of floodplain development wherever there is a practicable alternative." The purpose of EO 11990 Protection of Wetlands is "to avoid to the extent possible the long- and short-term adverse impacts associated with the destruction or modification of wetlands and to avoid direct or indirect support of new construction in wetlands wherever there is a practicable alternative." This report contains the analysis prescribed by 24 CFR Part 55.

This project involves U.S. Department of Housing and Urban Development (HUD) Community Development Block Grant Program – Disaster Recovery (CDBG-DR) funding for the construction of a new municipal building. The analysis that follows focuses primarily on floodplain impacts, as there are no direct wetland impacts associated with this project. Based on the type of land use and other case characteristics described herein, it is concluded that there is a reasonable basis to proceed with funding for this project/ activity within floodplain. The CDBG-DR funding is administered through the New York State Rising Community Reconstruction Program which is using bottom-up community participation and State-provided technical expertise to develop resilient and sustainable communities. Thus, alternatives preventing or impeding the development of resilient and sustainable communities are not considered reasonable alternatives.

Description of Proposed Action & Land Use

The Village of Owego is requesting CDBG-DR funding for the Village of Owego Municipal Facility Project (Project), which will involve the construction of a new municipal building for the Village of Owego Department of Public Works (DPW) at 20 Elm Street, Village of Owego, Town of Owego, Tioga County, New York. The new municipal building will be an approximately 5,000 square foot (50 foot by 100 foot) steel framed building that is two (2) feet above the 100-year floodplain, which is 6 feet above the existing grade. The proposed Project is located on vacant land approximately 50 feet to the west of an existing Department of Public Works building and maintenance garage.

The proposed Project will include the following construction activities: installation of silt fence; removal of existing site vegetation, asphalt pavement, concrete sidewalk, concrete curb, and an existing wood shed; relocating existing boulders along an asphalt parking lot; clearing and grubbing the site to the required sub-grade elevation; providing additional fill and grading the site; construction of the proposed municipal building and interior spaces; installation of landings, stairs, ramps, pavement, conduit sleeves, parking delineation lines, a sanitary sewer line, a water service line, a utility pole, an overhead utility line, an underground utility line, and one (1) ADA compliant exterior ramp and stairs to accommodate elevated building access; connecting new water and sanitary services to the building from existing municipal lines; all necessary electrical, plumbing, and mechanical provisions and connections; and restoring the area with topsoil, seed, and mulch. The Village of Owego will be self-performing site excavation and removal of material adjacent to the new building to create a floodplain mitigation area. The creation of a floodplain mitigation area will offset the floodplain loss that will result from infilling the floodplain in order to site the new building above the 100-year floodplain.

Applicable Regulatory Procedure Per EO 11988
The proposed action corresponds with a noncritical action not excluded under 24 CFR §55.12(b) or (c). Funding is permissible for the use in the floodplain if the proposed action is processed under §55.20 and the findings of the determination are affirmative to suggest that the Project may proceed.

Based on data provided in **Appendix I**, including online data managed and updated by the U.S. Fish & Wildlife Service (USFWS) and New York Department of Environmental Conservation (NYSDEC), there are no mapped wetlands in the Project area. Thus, there will be no direct construction (new or existing) in wetlands. Thus, in accordance with the decision-making process set forth in 24 CFR Part 55, this analysis focuses exclusively on floodplains.

According to 24 CFR §55, the activity planned to occurs in a community that is in the regular program of the National Flood Insurance Program (NFIP) and the community is currently in good standing. Substantial Improvement/ Substantial Damage calculations do not apply to the Project. The Project involves the construction of a new municipal building in the 100-year floodplain; therefore, the decision making steps in §5.20 (b), (c), and (g) apply to the Project. As such, the full eight-step floodplain determination process in §55.20 is required and the following analysis examines each step in a floodplain management determination process.

Step 1. **Determine Whether the Proposed Action is Located in the 100-year Floodplain (500-year for Critical Actions) or results in New Construction in Wetlands.**
The proposed Project, per the applicable Federal Emergency Management Agency (FEMA) flood map Flood Insurance Rate Map (FIRM), is located within the 100-year floodplain (SFHA - AE Zone). There is an established Base Flood Elevation (BFE) of approximately 813 feet across the Project area, as shown in **Appendix II**. Per the USFWS and NYSDEC, there are no mapped wetlands located in the Project area. Therefore, the Project is not anticipated to impact wetlands. This action does not require an individual Section 404 permit under the Clean Water Act (see 55.20(a)(1)).

Step 2. **Initiate Public Notice for Early Review of Proposal.**
Because the proposed Project is located in the floodplain, the Governor's Office of Storm Recovery (GOSR) published an early notice that allowed for public and public agency input on the decision to provide funding for reconstruction and development activities. The early public notice and 15-day comment period is complete. No public comments were received.

The early notice and corresponding 15-day public comment period started on May 30, 2019 with the "Notice of Early Public Review of a Proposed Activity in Wetlands and 100-Year Floodplain" being published in the Press & Sun Bulletin newspaper, with the 15-day period expiring on June 14, 2019 The notice targeted local residents, including those in the floodplain. The notice was also sent to the following state and federal agencies on May 30, 2019: FEMA; USFWS; U.S. Environmental Protection Agency (EPA); U.S. Department of Housing and Urban Development; NYSDEC; New York State Office of Parks, Recreation, and Historic Preservation; and New York State Office of Homeland Security & Emergency Services. The notice was also sent to the Village of Owego and Town of Owego. (See **Appendixes III and IV** of this EO 11990 Wetlands Protection and EO 11988 Floodplain Management Determination for the letter distributed to these agencies and the associated newspaper notice affidavit).

Step 3. **Identify and Evaluate Practicable Alternatives to Locating the Proposed Action in a 100-year Floodplain (or 500-year Floodplain if a Critical Action) or Wetland.**
The New York State Rising Community Reconstruction Program is structured to provide eligible communities resources and expertise to build communities resilient to future flooding events. This community was impacted by Hurricane Irene and Tropical Storm Lee. The existing building that houses the Department of Public Works and Code Enforcement offices is located approximately four (4) feet

below the 100-year floodplain elevation. As a result of Hurricane Irene and Tropical Storm Lee, the Village of Owego's Department of Public Works (DPW) building experienced flood waters approximately four (4) feet above the existing grade level, which is approximately two (2) feet below what will be the finished floor elevation for the new proposed building. The flooding caused the Village of Owego Department of Public Works building to be rendered inoperable. The facility, which houses the Village's DPW equipment, along with offices for DPW staff and code enforcement, was difficult to access in the days immediately following the storm. This resulted in limited municipal services delivery during and immediately following the storms. The proposed Project mitigates this threat by constructing a new municipal facility that will be elevated two (2) feet above the 100-year floodplain, which will protect the building from future storm events and allow the Village of Owego to respond better and recover more quickly from future events. Given the history of flooding in this community, and the nature of the proposed work, potential alternatives must be considered in order to try and mitigate the amount of damage during future flood events.

The primary alternative for the current proposed action is the "no action" alternative. This alternative means that the existing DPW building would remain at its current location. This would leave the building vulnerable to future flood damage, which could render the building inoperable. The "no action" alternative would provide no protection to the existing DPW building from future flood events. Thus, the "no action" alternative is not feasible in relation to the desired objective of making the DPW building more resilient to future flooding events.

The Village of Owego Municipal Building Feasibility Study was performed to identify other alternatives and to generate a feasibility study to provide a municipal building that can remain functional in the event of a cataclysmic flood. Three sites within the Village of Owego limits were reviewed as potential locations for a new municipal building: between Mountain Road and Prospect Street, 60 Southside Drive, and the site of the proposed Project. After discussions between the Village of Owego, DASNY, and GOSR, it was determined that the site of current DPW was the most cost effective of the three options, and would meet the functional, technical, and financial needs to construct a new municipal building.

The Village of Owego needs a DPW in order to house equipment and provide public services. Other potential sites for the DPW outside of the floodplain were evaluated in the Village of Owego Municipal Building Feasibility Study and were determined to be unfeasible, therefore prohibition of the Project within the floodplain is not practicable.

Step 4. **Identify & Evaluate Potential Direct & Indirect Impacts Associated with Occupancy or Modification of 100-year Floodplain and Potential Direct & Indirect Support of Floodplain and Wetland Development that Could Result from Proposed Action.**

The focus of floodplain evaluation should be on adverse impacts to lives and property, and on natural and beneficial floodplain values. Natural and beneficial floodplain values include water resources, living resources, cultural resources, and agricultural/ aquacultural/ forestry resources.

Water Resources – Natural moderation of floods, water quality maintenance, and groundwater recharge

In order for the new municipal building to be situated two (2) feet above the BFE, the Project will involve the addition of approximately 2,312.08 cubic feet (cf) of fill material to the floodplain. However, approximately 381.96 cf of material will be removed from the floodplain during construction and approximately 2,102.69 cf of material will be removed from the floodplain to create a stormwater retention area, which will offset the addition of material to the floodplain necessary to site the municipal building two (2) feet above the BFE. A net total of 172.57 cf of material will be removed from the floodplain, which indicates that the Project will create approximately 172.57 cf of additional storage in the floodplain. As such, the existing natural moderation of floodplain and floodway will remain intact and groundwater recharge will not be impeded. A Floodplain Development Permit will be obtained from the

Village of Owego, which participates in the FEMA National Flood Program prior to commencement of Project activities. Best management practices (BMPs) will be implemented and permit specified conditions will be followed during construction to minimize the potential effects on water resources. A qualitative evaluation suggests the potential for impacts would be relatively minor, and if such releases do occur, it would likely be part of an area wide impact. Given the nature of the Project, the potential for an acute or chronic level of water quality impact from the proposed Project is low.

Living resources – Flora and fauna
The Project is located within the boundaries of the Village of Owego in an area that is characterized by residential and commercial development. The Project is located on a manicured parcel of land immediately adjacent to an existing municipal building. No significant impacts to flora and fauna are anticipated to occur as a result of the Project.

According to the NYSDEC Environmental Resource Mapper (ERM) and Environmental Assessment Form (EAF) Mapper, the Project is not located within or near an area with New York State listed rare plants or animals.

The U.S. Fish and Wildlife Service (USFWS) lists the northern long-eared bat (threatened) as the only federally endangered or threatened species under USFWS jurisdiction that may occur within the boundaries of the proposed Project. The Project will not involve removal of any trees in the Project area. There is no suitable habitat for the USFWS threatened species listed in the Project area. The Project will involve construction in areas that do not support or provide habitat for any rare, threatened or endangered plant or animal species. Therefore GOSR determined that the proposed Project would have "no effect" on species under the jurisdiction of the USFWS.

Endangered species review and consultation documents are included in the environmental review record in **Attachment 6** of the *Village of Owego Municipal Facility Project* Environmental Assessment document.

Cultural resources – Archaeological, historic, & recreational aspects
The New York State Historic Preservation Office has determined that "no historic properties will be affected" by the Project. The letter documenting this determination is included in the environmental review record in **Attachment 8** of the *Village of Owego Municipal Facility Project* Environmental Assessment document. The Project involves the siting of a new municipal building in a residential and commercial area and will not impact any recreational resources.

Agricultural, aquacultural, & forestry resources
The Project is not located within an agricultural district, as identified by New York State and Cornell University. The Project is located within the Village of Owego; land located within Village boundaries is not considered for agricultural and farmland protection in the Tioga County Agricultural and Farmland Protection Plan Update, May 12, 2015.

It is possible that if there is a materials release from this property during construction activities, it could potentially affect natural resources including agricultural and forestry. However, a qualitative analysis suggests that the impact would be minor as mitigative measures and BMPs will be utilized during construction. These measures include, but are not limited to, installing temporary silt fencing on land to prevent soil and/or debris from being washed off-site per the soil erosion control plan. Project activities will be completed in accordance with all applicable federal, state and local regulations. Thus, no or minor temporary impacts from the proposed project activities are anticipated.

Step 5. **Where Practicable, Design or Modify the Proposed Action to Minimize the Potential Adverse Impacts To and From the 100-Year Floodplain and to Restore and Preserve its Natural and Beneficial Functions and Values.**

The purpose of the Project is to provide a municipal building for the Village of Owego that is resilient to future flood damage and to minimize adverse impacts to and from the 100-year floodplain, and to restore and preserve its natural beneficial functions and values. The Project will involve the addition of approximately 2,312.08 cubic feet (cf) of fill material to the floodplain. However, approximately 381.96 cf of material will be removed from the floodplain during construction and approximately 2,102.69 cf of material will be removed from the floodplain to create a stormwater retention area, which will offset the addition of material to the floodplain necessary to site the municipal building two (2) feet above the BFE. A net total of 172.57 cf of material will be removed from the floodplain, which indicates that the Project will create approximately 172.57 cf of additional storage in the floodplain. As such, implementation of the Project will preserve the natural and beneficial functions and values of the floodplain.

Step 6. **Reevaluate the Alternatives and Proposed Action.**

The "no action" alternative for not funding the Project would not address the purpose and need of the proposed action. Without the proposed action, the impacted community would be left more susceptible to future flooding events in this area than it would after the implementation of the proposed action. Therefore, the "no action" alternative examined is not considered desirable and the proposed action is still practicable in light of exposure to flood hazards in floodplain, possible adverse impacts on floodplain, the extent to which it may aggravate current hazards to other floodplains, and the potential to disrupt natural and beneficial functions and values of floodplains. Additionally, implementation of the proposed action will abide by all applicable state and local codes for floodplain development. As such, the impact of the proposed action on a floodplain would be less the "no action" alternative.

The Village of Owego Municipal Building Schematic Design study was performed to identify alternatives and generate a feasibility study to provide a municipal building that can remain functional in the event of a cataclysmic flood. Three sites within the Village of Owego limits were reviewed as potential locations for a new municipal building: between Mountain Road and Prospect Street, 60 Southside Drive, and the site of the proposed Project. After discussions between the Village of Owego, DASNY, and GOSR, it was determined that the site of current DPW was the most cost effective of the three options, and would meet the functional, technical, and financial needs to construct a new municipal building.

Step 7. **Issue Findings and Public Explanation.**

A final notice, formally known as "Final Notice and Public Review of a Proposed Activity in a 100-Year Floodplain and Wetland", was published in accordance with 24 CFR 55. This public notice was combined with the "Notice of Finding of No Significant Impact and Notice of Intent to Request Release of Funds (FONSI-NOIRROF)" on June 20, 2019. The final notice requires a 7-day comment period after publication; however, the FONSI-NOIRROF requires a 15-day comment period. As such, a 15-day comment period was used for this Final Notice. The 15-day comment period started with the Final Notice publishing in the Press & Sun Bulletin newspaper on June 20, 2019 and the 15-day comment period expires at 5pm on July 5, 2019. The combined notice describes the reasons why the project must be located in the floodplain, alternatives considered, and all mitigation measures to be taken to minimize adverse impacts and preserve natural and beneficial floodplain values.

Step 8. **Continuing Responsibility of Responsible Entity & Recipient.**

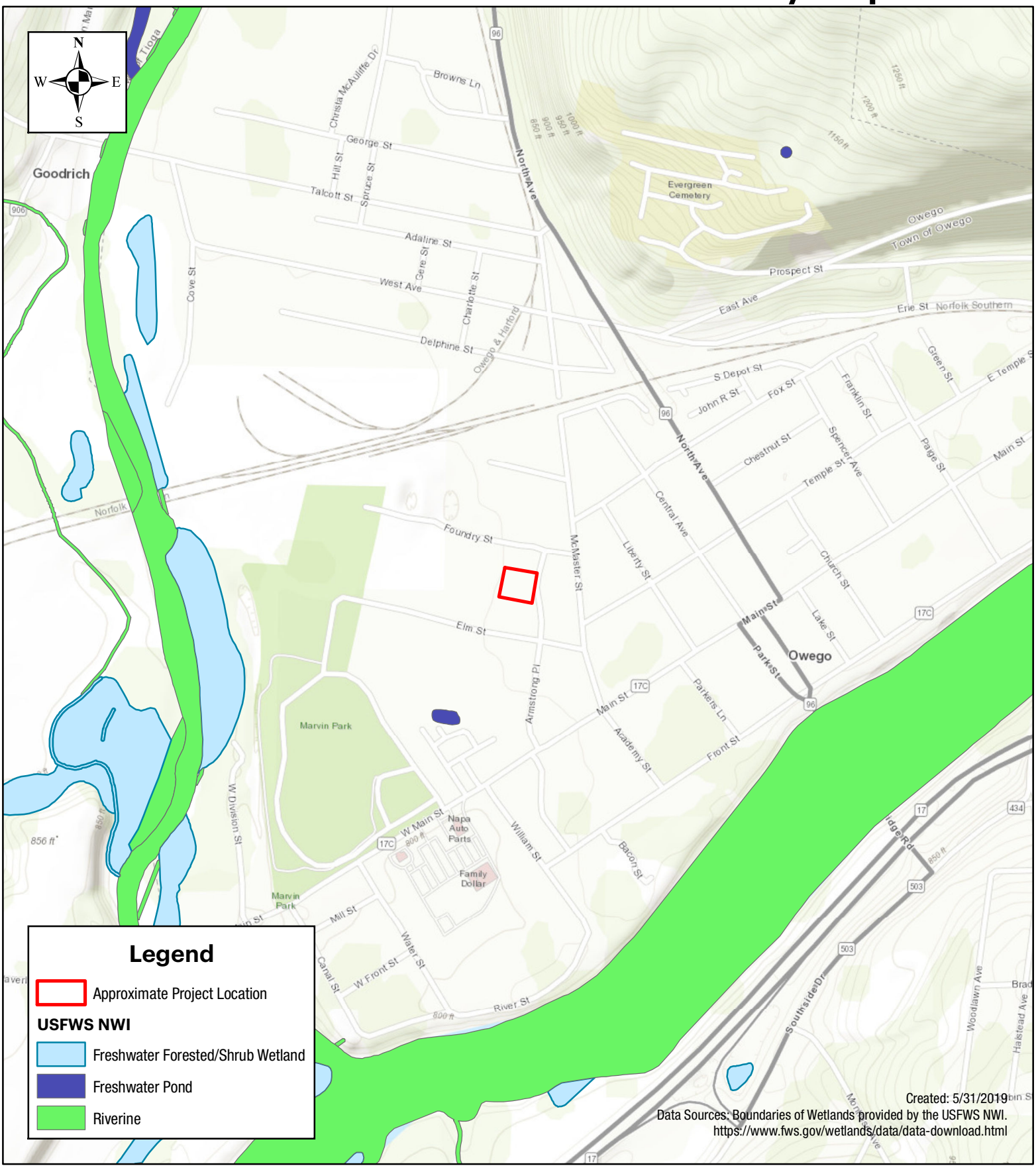
The Governor's Office of Storm Recovery (GOSR), operating under the auspices of the New York State Homes and Community Renewal's (NYSHCR) Housing Trust Fund Corporation, is the responsible entity. The responsible entity will make available educational materials regarding best practices for businesses located in floodplains. It will also require proof of current flood insurance from the applicant,

when applicable. It is acknowledged there is a continuing responsibility by the responsible entity to ensure, to the extent feasible and necessary, compliance with the steps herein.

Appendix I

USFWS NWI Map
NYSDEC Wetlands and Waterways Map

USFWS National Wetlands Inventory Map



Legend

- Approximate Project Location

USFWS NWI

- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Riverine

Created: 5/31/2019
Data Sources: Boundaries of Wetlands provided by the USFWS NWI.
https://www.fws.gov/wetlands/data/data-download.html

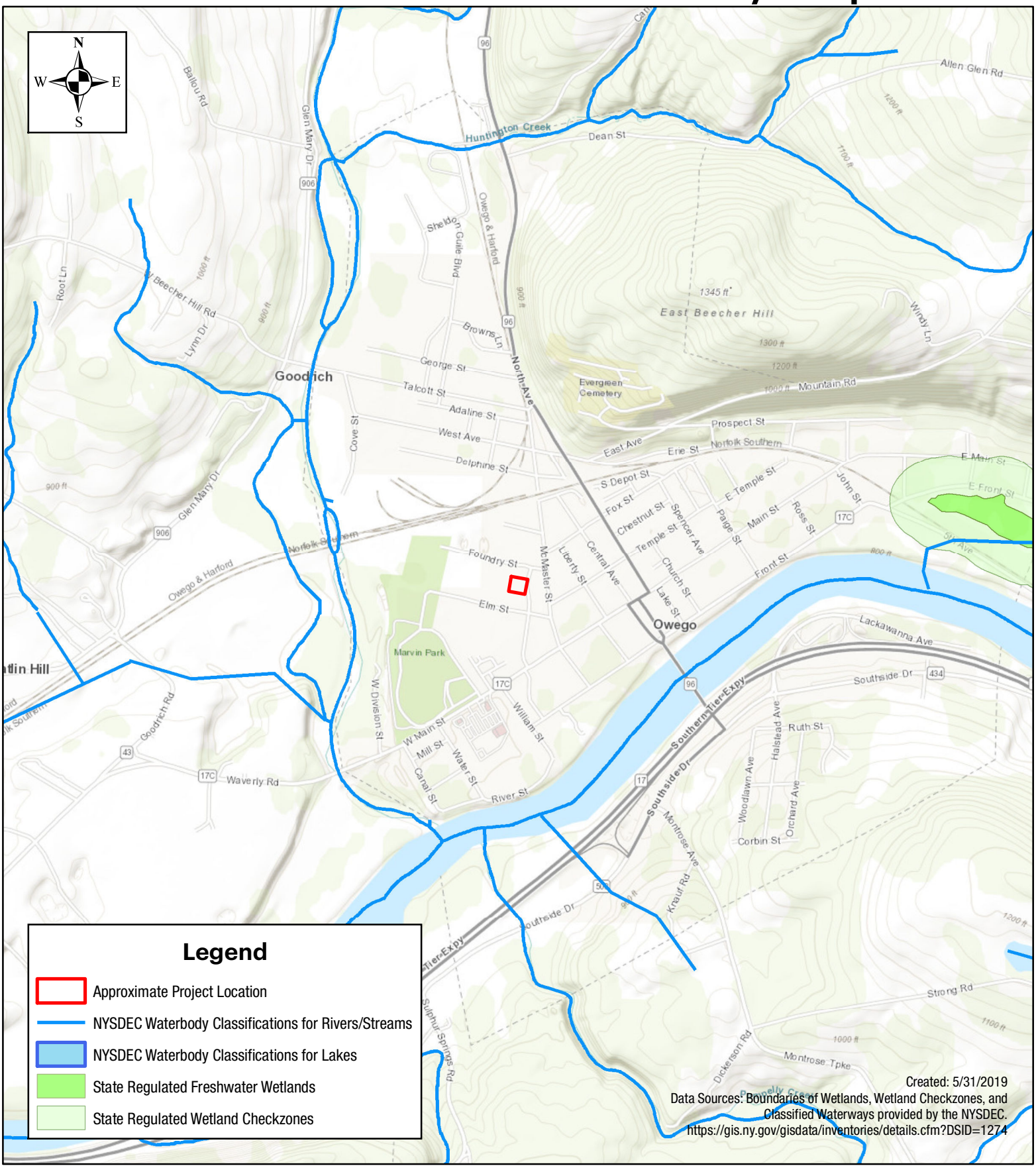
Tectonic

1:10,000

0 500 1,000 2,000 Feet

Village of Owego Municipal Facility Project
20 Elm Street
Village of Owego
Town of Owego
Tioga County, New York

NYSDEC Wetlands and Waterways Map



Tectonic

1:20,000

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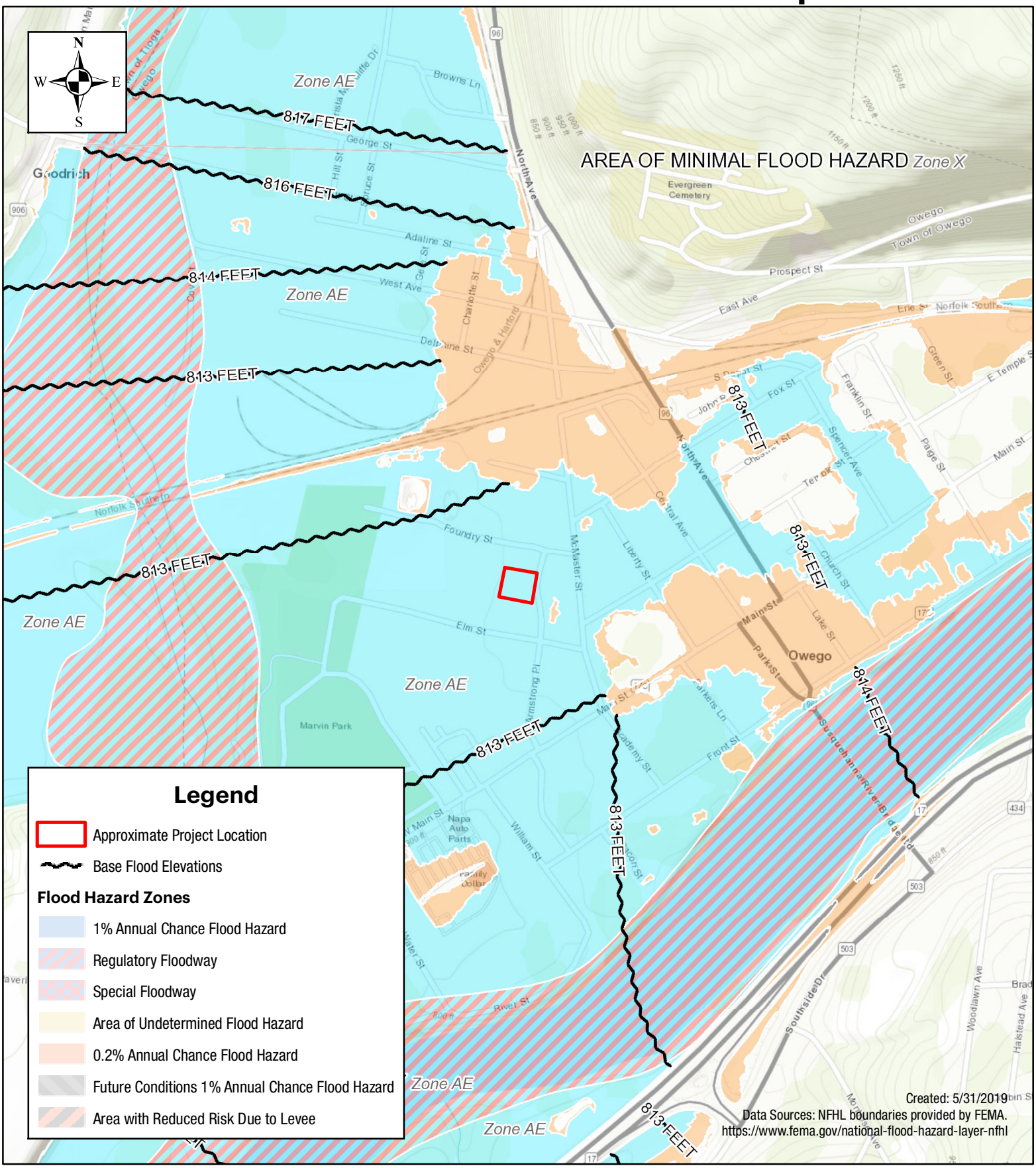
Village of Owego Municipal Facility Project
20 Elm Street
Village of Owego
Town of Owego
Tioga County, New York

Appendix II

FEMA National Flood Hazard Layer Map

FEMA National Flood Hazard Map



Legend

- Approximate Project Location
- Base Flood Elevations

Flood Hazard Zones

- 1% Annual Chance Flood Hazard
- Regulatory Floodway
- Special Floodway
- Area of Undetermined Flood Hazard
- 0.2% Annual Chance Flood Hazard
- Future Conditions 1% Annual Chance Flood Hazard
- Area with Reduced Risk Due to Levee

Tectonic

1:10,000

0 500 1,000 2,000 Feet

Village of Owego Municipal Facility Project
20 Elm Street
Village of Owego
Town of Owego
Tioga County, New York

Appendix III

Notice of Early Public Review

EARLY NOTICE OF A PROPOSED ACTIVITY
IN A 100-YEAR FLOODPLAIN

VILLAGE OF OWEGO MUNICIPAL FACILITY PROJECT
20 ELM STREET, VILLAGE OF OWEGO, TOWN OF OWEGO
TIOGA COUNTY, NEW YORK
May 30, 2019

To: All interested Agencies, Groups, and Individuals

This is to give notice that the Governor's Office of Storm Recovery (GOSR), an office of the New York State Housing Trust Fund Corporation (HTFC), has received an application from the Village of Owego to fund the Village of Owego Municipal Facility Project (hereinafter, the "Proposed Activity") and is conducting an evaluation as required by Executive Order 11988 and Executive Order 11990 in accordance with U.S. Department of Housing and Urban Renewal (HUD) regulations (24 CFR Part 55). There are three primary purposes for this notice. First, to provide the public an opportunity to express their concerns and share information about the Proposed Activity. Second, adequate public notice is an important public education tool. The dissemination of information about floodplains facilitates and enhances governmental efforts to reduce the risks associated with the occupancy and modification of these special areas. Third, as a matter of fairness, when the government determines it will participate in actions taking place in floodplains, it must inform those who may be put at greater or continued risk. Funding for the Proposed Activity will be provided by the HUD Community Development Block Grant – Disaster Recovery (CDBG-DR) program for storm recovery activities in New York State.

The existing Village of Owego Department of Public Works building is located in a 100-year floodplain and experienced catastrophic flooding from Hurricane Irene and Tropical Storm Lee in 2011. The existing building that houses the Department of Public Works and Code Enforcement is located approximately four (4) feet below the 100-year floodplain elevation. As a result of Hurricane Irene and Tropical Storm Lee, the Village of Owego's Department of Public Works building experienced flood waters approximately four (4) feet above the existing grade level, which is approximately two (2) feet below what will be the finished floor elevation for the new proposed building. The flooding caused the Village of Owego Department of Public Works building to be rendered inoperable. The Proposed Activity mitigates this threat by constructing a new municipal facility that will be elevated two (2) feet above the 100-year floodplain, which will protect the building from future storm events and allow the Village of Owego to respond better and recover more quickly from future flood events.

The Proposed Action will involve the construction of a new municipal building for the Village of Owego Department of Public Works at 20 Elm Street, Village of Owego, Town of Owego, Tioga County, New York. The new municipal building will be an approximately 5,000 square foot (50 foot by 100 foot) steel framed building that is two (2) feet above the 100-year floodplain, which is 6 feet above the existing grade. The Proposed Action is located on vacant land approximately 50 feet to the west of an existing Department of Public Works building and maintenance garage.

The Proposed Action will include the following construction activities: installation of silt fence; removal of existing site vegetation, asphalt pavement, concrete sidewalk, and concrete curb; relocating existing boulders along an asphalt parking lot; clearing and grubbing the site to the required sub-grade elevation; providing additional fill and grading the site; construction of the proposed municipal building and interior spaces; installation of landings, stairs, ramps, pavement,

conduit sleeves, parking delineation lines, a sanitary sewer line, a water service line, a utility pole, an overhead utility line, an underground utility line, and one (1) ADA compliant exterior ramp and stairs to accommodate elevated building access; connecting new water and sanitary services to the building from existing municipal lines; all necessary electrical, plumbing, and mechanical provisions and connections; and restoring the area with topsoil, seed, and mulch. The Village of Owego will be self-performing site excavation and removal of material adjacent to the new building to create a floodplain mitigation area. The creation of a floodplain mitigation area will offset the floodplain loss that will result from infilling the floodplain in order to site the new building above the 100-year floodplain.

The Proposed Activity will result in permanent impacts to the 100-Year Floodplain. These impacts will consist of fill in order to site the new municipal building. However, a floodplain mitigation area will be created by the Village of Owego to offset this floodplain loss and the new building will have flood vents. Approximately 382 cubic feet (cf) of floodplain will be removed from the site. Approximately 2,312 cf of volume will be added to the floodplain volume through the construction of a 2,103 cf retention basin and 5,600 square feet of flood venting added to the new construction. These mitigation measures have been approved by the Village of Owego floodplain administrator.

Floodplain maps based on the FEMA Base Flood Elevation Maps and wetlands maps based on the National Wetland Inventory and New York State Department of Environmental Conservation (NYSDEC) data have been prepared and are available for review with additional information at http://www.stormrecovery.ny.gov/environmental-docs.

Any individual, group, or agency may submit written comments on the Proposed Activity or request further information by contacting Lori A. Shirley, Certifying Officer, Governor's Office of Storm Recovery, 99 Washington Avenue, Suite 1224, Albany, NY 12260; email: NYSCDBG_DR_ER@nyshcr.org. Standard office hours are 9:00 AM to 5:00 PM Monday through Friday. For more information call 518-474-0755. All comments received by June 14, 2019 will be considered.

Early Notice Distribution List for
Village of Owego Municipal Facility Project

FEDERAL AGENCIES

By Overnight Express:
Tennille Smith Parker, Director
U.S. Dep. of Housing and Urban Development
Disaster Recovery and Special Issues Division
451 7th Street SW, Room 7272
Washington, DC 20410

By Email only:

Ms. Rhoda M. Nicholson
U.S. Dep. Of Housing and Urban Development
disaster_recovery@hud.gov

Mr. Mike Poetzsch
U.S. Environmental Protection Agency
poetzsch.michael@epa.gov

By U.S. Mail:

Ms. Therese J. Fretwell, Enviro. Officer, R 1 & 2
U.S. Dep. of Housing and Urban Development
26 Federal Plaza, Room 3541
New York, NY 10278-0068

Thomas Von Essen, Regional Administrator
U.S. Dep. of Homeland Security
Federal Emergency Management Agency, R II
26 Federal Plaza
New York, NY 10278-0002

Ms. Robyn Niver
U.S. Fish and Wildlife Service
New York Field Office
3817 Luker Rd
Cortland, NY 13045

NYS & LOCAL AGENCIES

David Bimber, Regional Permit Administrator, Region 7
New York State Department of Environmental Conservation
615 Erie Blvd. West
Syracuse, NY 13204

Mr. Ron Rausch, Director
Environmental Management Bureau
Office of Parks, Recreation and Historic Preservation
625 Broadway, 2nd Floor
Albany, New York 12238

Marlene White
Supervisor, Mitigation Projects
NYS Division of Homeland Security & Emergency Services
1220 Washington Avenue, Building 7A - 4th Floor
Albany, NY 12242

Local

Mike Baratta, Mayor
Village of Owego
178 Main Street
Owego, NY 13827

Code Enforcement Officer
Village of Owego
20 Elm Street
Owego, NY 13827

Rod Marchewka, Village Clerk
Village of Owego
178 Main Street
Owego, NY 13827

Ron Schmidt, Code Enforcement & Building Inspector
Town of Owego
2354 NY State Route 434
Apalachin, NY 13732

Debra Standinger, Planning and Zoning Administrator
Town of Owego
2354 NY State Route 434
Apalachin, NY 13732

Mary C. Kennedy, Town Clerk
Town of Owego
2354 NY State Route 434
Apalachin, NY 13732

Donald Castellucci, Jr., Town Supervisor
Town of Owego
2354 NY State Route 434
Apalachin, NY 13732

Appendix IV

Notice of Early Public Review Affidavit

Attachment 5

HUD Environmental Standards Review

Village of Owego Municipal Facility Project
HUD Environmental Standards Review
Subject Property: 20 Elm Street,
Village of Owego, Tioga County, New York

Introduction

The purpose of this review is to ensure that the project complies with HUD environmental standards in relation to 24 CFR Part 58.5. Properties that are proposed for use in HUD programs "must be free of hazardous materials, contamination, toxic chemicals and gases, and radioactive substances, where a hazard could affect the health and safety of occupants or conflict with the intended utilization of the property."

A desktop review was performed to identify whether the property referenced in the title of this document complies with the following criteria

- Is not listed on the U.S. Environmental Protection Agency (EPA) Superfund National Priorities or Comprehensive Environmental Response Superfund National Priorities or Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) list, or equivalent state list;
- Is not located within 3,000 feet of a toxic or solid waste landfill site;
- Does not have an underground storage tank; and
- Is not known or suspected to be contaminated by toxic chemicals or radioactive materials.

Summary of Findings

Property Area Records Review

The Village of Owego Municipal Facility Project (Project) will involve the construction of a new municipal building for the Village of Owego Department of Public Works at 20 Elm Street, Village of Owego, Town of Owego, Tioga County, New York (Subject Property). The new municipal building will be an approximately 5,000 square foot (50 foot by 100 foot) steel framed building that is two (2) feet above the 100-year floodplain, which is 6 feet above the existing grade. The proposed Project is located on vacant land approximately 50 feet to the west of an existing Department of Public Works building and maintenance garage.

New York State Department of Environmental Conservation (NYSDEC) Records:
The Subject Property is not listed on the NYSDEC Bulk Storage or Environmental Site Remediation Database; the Subject Property is listed on the NYSDEC Spill Incident Database. It should be noted that, as accurate spill locations in some of the NYSDEC Incident Reports were not always provided in the Report itself, a decision was made to err on the side of caution and assume that these spill incidents were on or near the Subject Property.

The NYSDEC Spill Incident Database indicates that there were two (2) closed spills located on the Subject Property. A spill closure means that the records and the data submitted indicate that the necessary cleanup and removal actions have been completed and no further remedial actions are necessary or the case was closed for administrative reasons (e.g. multiple reports of a single spill consolidated into a single spill number). As such, these spills are not considered a hazard that could affect the health and safety of occupants or conflict with the intended utilization of the Subject Property.

EPA Records:
The Subject Property is not listed on an EPA Superfund National Priorities or CERCLA list or equivalent State list or EPA Resource Conservation and Recovery (RCRA) database. The Subject Property is not located within 3,000 feet of a toxic or solid waste landfill site. The Subject Property is not known or suspected to be contaminated by toxic chemicals or radioactive materials.

Surrounding Properties Records Review

NYSDEC Records:

A search of the NYSDEC Spill Incidents Database resulted in the identification of 25 spills within 1,000 feet of the Subject Property. It should be noted that, as accurate spill locations in the NYSDEC Incident Reports were not always provided in the Report itself, a decision was made to err on the side of caution and assume that those spill incidents were located near the Subject Property and the Surrounding Properties and reviewed accordingly. The NYSDEC Spill Incidents Database indicates that all 25 of the spills have been closed. A spill closure means that the records and the data submitted indicate that the necessary cleanup and removal actions have been completed and no further remedial actions are necessary or the case was closed for administrative reasons (e.g. multiple reports of a single spill consolidated into a single spill number). As such, these spills are not considered a hazard that could affect the health and safety of occupants or conflict with the intended utilization of the Subject Property.

According to NYSDEC Bulk Storage Database, there are three (3) Bulk Storage sites located within 3,000 feet of the Subject Property. These three (3) facilities are discussed in detail below.

Petro King (Site No: 1-000205) is an unregulated/closed Petroleum Bulk Storage (PBS) facility located at 1701 North Strong Avenue, approximately 932 feet southwest and down-gradient of the Subject Property. This facility has one (1) underground storage tank (UST) that has been converted to non-regulated use and no spills have been reported for this location. Due to the distance and down-gradient location of this facility from the Subject Property and the nature of the proposed Project, this facility is not considered a hazard that could conflict with the intended utilization of the Subject Property.

According to the NYSDEC Environmental Site Remediation Database, there are three (3) remediation sites within 3,000 feet of the Subject Property. Due to the distance and down-gradient locations from the Subject Properties, and the nature of the contamination, two (2) of the three (3) sites are not considered a hazard that could conflict with the intended utilization of the Subject Property. The remaining site is discussed below.

Former Elka Chemical Company (Site Code: 152239) is located north of West Hoffman Avenue and west of New York Avenue, approximately 207 feet east and cross-gradient of the Subject Property. The site was used as a chemical repackaging facility from the 1920s until 1985 and an auto dealership from 1985 to 2013. Prior use of the site resulted in Xylene contaminated groundwater on the property. Regional groundwater flow direction was noted to be to the south. Site investigation data indicates there are no off-site impact to the soils from the site while groundwater contamination was noted on site and immediately down-gradient from the site. Due to the distance and down-gradient location of this site from the Subject Property and the nature of the proposed Project, this facility is not considered a hazard that could conflict with the intended utilization of the Subject Property.

EPA Records:

According to the EPA's Enforcement and Compliance History Online (ECHO) search, there are sixty-eight (68) hazardous waste sites (RCRA), eleven (11) clean water act (CWA), and eleven (11) air emissions (CAA) facilities within 3,000 feet of the Subject Property. Of these facilities, none of the facilities located hydraulically up-gradient had violations reported. Facilities with no violations are not considered a hazard as the facilities are in compliance with permit conditions that are enforced and meet standards that protect public health and the environment by preventing releases to the environment. While some of the down-gradient facilities have reported violations, due to the nature of the permit violations, the distance from the facility to the Subject Property, and the location of the Project down-gradient from the Subject Property, these facilities are not considered a hazard that could affect the health and safety of occupants or conflict with the intended utilization of the Subject Property.

Conclusion:
Based on a review of available environmental records for the Subject Property and surrounding area, the Subject Property is unlikely to contain hazardous materials, contamination, toxic chemicals and gases, or radioactive substances, which would constitute a hazard that could affect the health and safety of occupants or conflict with the intended utilization of the Subject Property. Therefore, a Phase I Environmental Site Assessment (ESA) or Phase II Investigation is not warranted. Maps, NYSDEC reports, and EPA reports are included at the end of this report.

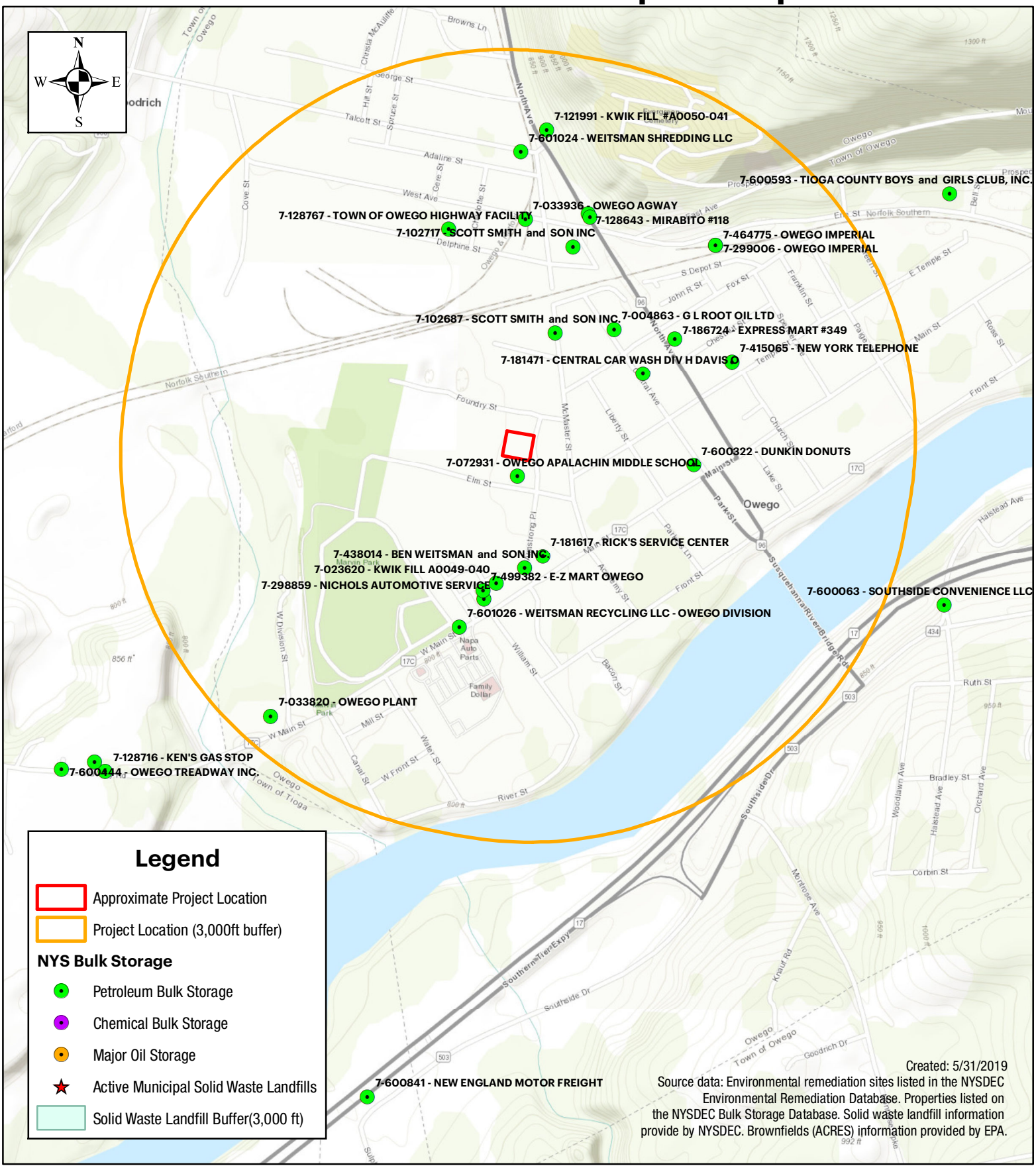
Data Sources: Tectonic Engineering and Surveying Consultants, P.C. (Tectonic) has reviewed the following sources to make the above determinations: Hazardous Waste records contained in the Resource Conservation and Recovery Act (RCRA) Information System, the Superfund Enterprise Management System (SEMS) for sites listed under CERCLA (otherwise known as Superfund), EPA's Toxic Release Inventory database (TRI), and the EPA Radiation Information Database (RADInfo). RCRA includes data on small and large quantity hazardous waste material generators and handlers. EPA's Toxic Release Inventory provides information on toxic chemical releases and waste management activities by certain industries. The RADInfo database provides information about facilities that are regulated by the U.S. EPA for radiation and radioactivity.

Tectonic reviewed the NYSDEC Environmental Site Remediation Database to assess whether the site is registered as a NYS Superfund or Environmental Remediation site. The NYSDEC Environmental Site Remediation Database includes records of sites that are part of the NYS Superfund, Brownfield Cleanup, Environmental Restoration, and Voluntary Cleanup Programs. The Database also includes a Registry of Inactive Hazardous Waste Disposal Sites. The NYSDEC Bulk Storage Database was reviewed for records of facilities that are or have been regulated according to one of the Bulk Storage Programs - Petroleum Bulk Storage, Chemical Bulk Storage, or Major Oil Facility. The NYSDEC Spill Incidents Database was used to determine the potential effects of spills on or near the Subject Property. A desktop review of Google Earth was used in conjunction with a map of active municipal landfills (provided by the NYSDEC), and a list of landfills provided by the NYSDEC to determine whether a non-active or active landfill is located within 3,000 feet of the Subject Property.

Maps

NYS Bulk Storage Map
NYS Environmental Remediation Map
EPA NEPAssist Map

HUD Environmental Report Maps



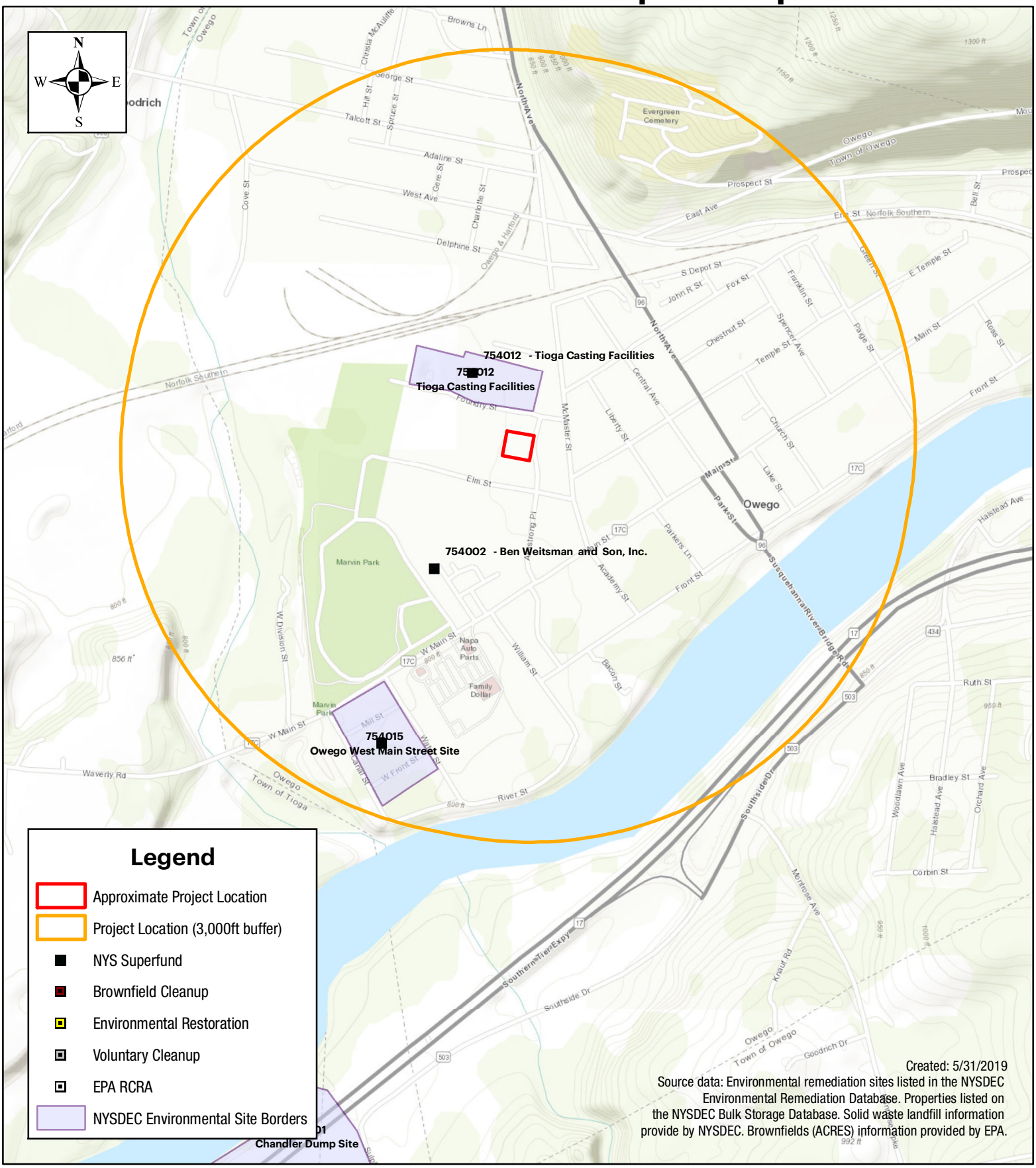
Tectonic

1:12,000

0 600 1,200 2,400 Feet

Village of Owego Municipal Facility Project
20 Elm Street
Village of Owego
Town of Owego
Tioga County, New York

HUD Environmental Report Maps



Created: 5/31/2019
Source data: Environmental remediation sites listed in the NYSDEC Environmental Remediation Database. Properties listed on the NYSDEC Bulk Storage Database. Solid waste landfill information provide by NYSDEC. Brownfields (ACRES) information provided by EPA.

Tectonic

1:12,000

0 600 1,200 2,400 Feet

Village of Owego Municipal Facility Project
20 Elm Street
Village of Owego
Town of Owego
Tioga County, New York

May 31, 2019

1:18,056

0 0.15 0.3 0.6 mi

0 0.25 0.5 1 km

RCRAINFO (clustered)

RCRAINFO (single)

AIRS (single)

PCS (clustered)

PCS (single)

Project 1

Buffer Area

Sources: Esri, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen, Rijkswaterstaat, GSA, Geoland, FEMA,

Environmental Reports

NYSDEC Reports for Spills, Environmental Remediation Sites, or Bulk Storage Sites Located on, or within close proximity to, the Project Area

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Spill Incidents Database Search Results

Record Count: 6 Rows: 1 to 6

Export XLS Export CSV

	Spill Number	Date Spill Reported	Spill Name	County	City/Town	Address
1.	8908191	11/16/1989	STAKMORE CO.,INC.	Tioga	OWEGO	ELM ST.
2.	9001027	04/27/1990	OWEGO MIDDLE SCHOOL	Tioga	OWEGO	ELM ST.
3.	9607289	09/09/1996	OWEGO CENTRAL SCHOOL BUS	Tioga	OWEGO	ELM ST
4.	9865115	03/08/1999	VILLAGE OF OWEGO GARAGE	Tioga	OWEGO	20 ELM STREET
5.	0003998	07/02/2000	VILLAGE GARAGE	Tioga	OWEGO	20 ELM ST
6.	0651082	09/27/2006	OWEGO APALACHIN BUS GARAGE	Tioga	OWEGO	75 ELM STREET

Refine This Search

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Spill Incidents Database Search Results

Record Count: 1 Rows: 1 to 1

Export XLS Export CSV

	Spill Number	Date Spill Reported	Spill Name	County	City/Town	Address
1.	0651045	07/27/2006	PAUL PHILLIPS RESIDENCE	Tioga	OWEGO	32 ARMSTRONG PLACE

Refine This Search

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Spill Incidents Database Search Results

Record Count: 2 Rows: 1 to 2

Export XLS Export CSV

	Spill Number	Date Spill Reported	Spill Name	County	City/Town	Address
1.	0465028	06/21/2004	ABANDONED WASTE OIL	Tioga	OWEGO	FOUNDRY STREET
2.	1704519	08/06/2017	LINE 548 POLE 5	Tioga	OWEGO	FOUNDRY ST

Refine This Search

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Spill Incidents Database Search Results

Record Count: 7 Rows: 1 to 7

Export XLS Export CSV

	Spill Number	Date Spill Reported	Spill Name	County	City/Town	Address
1.	8604397	10/08/1986	MCMASTER ST.	Tioga	OWEGO	114 MCMASTER ST.
2.	9310991	10/08/1993	ENDICOTT JOHNSON	Tioga	OWEGO	MCMASTER ST.
3.	9401044	04/20/1994	BUFFALO NEWS PRESS	Tioga	OWEGO	MCMASTER & DELPHINE ST.
4.	9403204	06/03/1994	OLD CREAMERY BLDG	Tioga	OWEGO	191 MCMASTER ST
5.	9965052	07/30/1999	OLD CREAMERY BUILDING	Tioga	OWEGO	MCMASTER STREET
6.	9905664	08/10/1999	TIOGA COUNTY FAIR GROUNDS	Tioga	OWEGO	OFF MCMASTER RD (RT 17C)
7.	0813718	03/11/2009	NORFOLK SOUTHERN RAILWAY CO.	Tioga	OWEGO	MCMASTER STREET

Refine This Search

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Spill Incidents Database Search Results

Record Count: 2 Rows: 1 to 2

Export XLS Export CSV

	Spill Number	Date Spill Reported	Spill Name	County	City/Town	Address
1.	1107348	09/11/2011	PVT DWELLING	Tioga	OWEGO	68 LIBERTY ST
2.	1402707	06/12/2014	METH LAB - RESIDENCE	Tioga	OWEGO	79 LIBERTY ST

Refine This Search

Attachment 6

Endangered Species Consultation Documents

NHP Documentation
USFWS Consultation Acknowledgement
USFWS Consultation Package

Governor's Office of Storm Recovery

ANDREW M. CUOMO
Governor

May 28, 2019

Information Services
New York Natural Heritage Program
New York State Department of Environmental Conservation
625 Broadway, 5th Floor
Albany, New York 12233-4754

VIA EMAIL: NaturalHeritage@dec.ny.gov

RE: New York Natural Heritage Program Record Request - U.S. Department of Housing and Urban Development (HUD) Community Development Block Grant for Disaster Recovery (CDBG-DR), New York Rising Community Reconstruction (NYRCR) Program – **Village of Owego Municipal Facility Project**

To Whom It May Concern:

The Governor's Office of Storm Recovery (GOSR), operating under the auspices of the New York State Homes and Community Renewal's (NYSHCR) Housing Trust Fund Corporation, was established to aid the statewide recovery of disaster-affected communities in New York State. GOSR is administering a U.S. Department of HUD CDBG-DR, including the NYRCR Program. The environmental review for projects funded under the NYRCR Program are processed on a case-by-case basis.

Pursuant to Article 11 of the New York State (NYS) Environmental Conservation Law (ECL) and Section 7 of the Endangered Species Act (ESA) of 1973 (87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq*.), we respectfully request a search of the NYS Department of Environmental Conservation (DEC) New York Natural Heritage Program's (NHP) records, providing GOSR with NYS Threatened and Endangered Species present on, or within proximity of, the project to facilitate a determination as to the potential effects from the proposed construction activities.

PROJECT DESCRIPTION

The Village of Owego Municipal Facility Project (Project) will involve the construction of a new municipal building for the Village of Owego Department of Public Works at 20 Elm Street, Village of Owego, Town of Owego, Tioga County, New York. The new municipal building will be an approximately 5,000 square foot (50 foot by 100 foot) steel framed building that is two (2) feet above the 100-year floodplain, which is 6 feet above the existing grade. The Project is located on vacant land approximately 50 feet to the west of an existing Department of Public Works building and maintenance garage.

The Project will include the following construction activities: installation of silt fence; removal of existing site vegetation, asphalt pavement, concrete sidewalk, and concrete curb; relocating existing boulders along

an asphalt parking lot; clearing and grubbing the site to the required sub-grade elevation; providing additional fill and grading the site; construction of the proposed municipal building and interior spaces; installation of landings, stairs, ramps, pavement, conduit sleeves, parking delineation lines, a sanitary sewer line, a water service line, a utility pole, an overhead utility line, an underground utility line, and one (1) ADA compliant exterior ramp and stairs to accommodate elevated building access; connecting new water and sanitary services to the building from existing municipal lines; all necessary electrical, plumbing, and mechanical provisions and connections; and restoring the area with topsoil, seed, and mulch. The creation of a floodplain mitigation area will offset the floodplain loss that will result from infilling the floodplain in order to site the new building above the 100-year floodplain. The mitigation includes 5,600 square feet of flood venting in the new building and a 2,102 cubic foot retention pond. The mitigation actions will increase the floodplain storage by 172 cubic feet. The Village of Owego Floodplain Administrator has approved the floodplain mitigation.

The Village of Owego Department of Public Works is located in a 100-year floodplain and experienced catastrophic flooding from Hurricane Irene and Tropical Storm Lee in 2011. The existing building that houses the Department of Public Works and Code Enforcement is located approximately four (4) feet below the 100-year floodplain elevation. As a result of Hurricane Irene and Tropical Storm Lee, the Village of Owego's Department of Public Works building experienced flood waters approximately four (4) feet above the existing grade level, which is approximately two (2) feet below what will be the finished floor elevation for the new proposed building. The flooding caused the Village of Owego Department of Public Works building to be rendered inoperable. The Project mitigates this threat by constructing a new municipal facility that will be elevated two (2) feet above the 100-year floodplain, which will protect the building from future storm events and allow the Village of Owego to respond better and recover more quickly from future events.

For the Project, a street map, topographic map, and aerial image showing the site location are included in **Appendix A**. Also, attached is the Environmental Assessment Form (EAF) mapper findings summary for the site location in **Appendix B**. We are also providing a link to the kmz file of the Project location separately from this letter. Your assistance with this matter is greatly appreciated.

Please notify us of your findings related to this information as soon as possible. If you have additional information or have questions concerning the evaluation, please contact me at (518) 474-0647 or via e-mail at Alicia.Shultz@nyshcr.org. Thank you for your assistance.

Sincerely,

Alicia Shultz

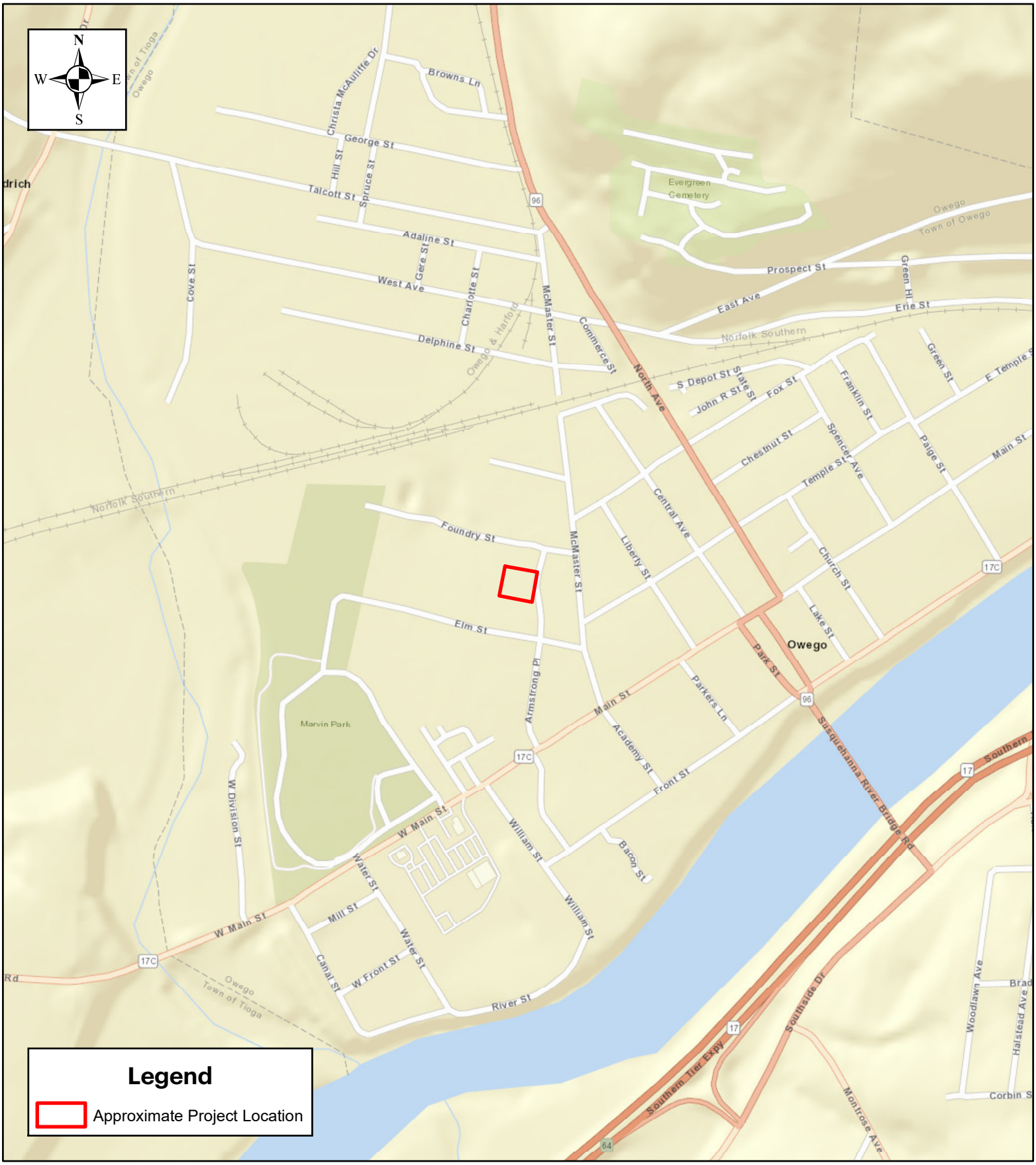
Alicia Shultz
Senior Environmental Scientist
New York State Homes & Community Renewal
38-40 State Street, 408N
Hampton Plaza
Albany, NY 12207

Enclosures:

Appendix A	Project Location Maps
Appendix B	EAF Mapper Findings

Appendix A

Street Map


N
W
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S
Legend
Approximate Project Location
Foundry St
Elm St
Main St
W Main St
Marvin Park
Owego
Evergreen Cemetery
Norfolk Southern
Susquehanna River Bridge Rd
Southern Tier Expy
Southside Dr
Prospect St
East Ave
West Ave
Delphine St
Adaline St
George St
Talcott St
Browns Ln
Christa McAuliffe Dr
Hill St
Spruce St
Cove St
Charlotte St
Gere St
McMaster St
Commerce St
North Ave
Erie St
Green St
Franklin St
Chestnut St
Temple St
Spencer Ave
Paige St
Liberty St
Central Ave
Church St
Lake St
Park St
Parkers Ln
Academy St
Front St
Armstrong Pl
William St
Bacon St
Water St
Mill St
Canal St
W Front St
River St
W Division St
Woodlawn Ave
Halstead Ave
Montrose Ave
Corbin St
Owego & Harford
Town of Owego
Town of Tioga
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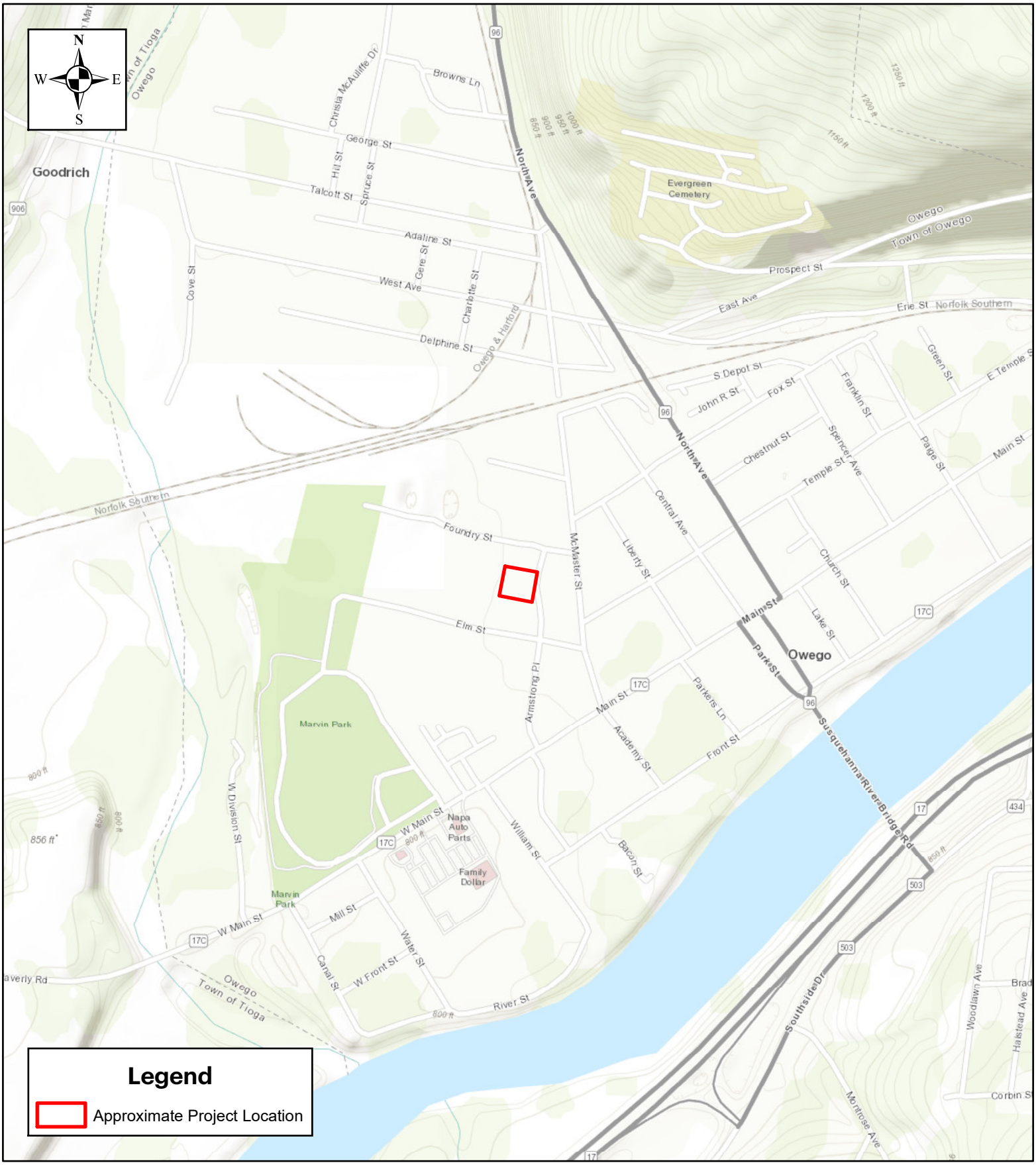
2,000 Feet
Tectonic
Village of Owego Municipal Facility Project
20 Elm Street
Village of Owego
Town of Owego
Tioga County, New York

Topographic Map



Tectonic

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0 500 1,000 2,000 Feet

Village of Owego Municipal Facility Project
20 Elm Street
Village of Owego
Town of Owego
Tioga County, New York

Aerial Map

Tectonic

1:500

0 25 50 100 Feet

Village of Owego Municipal Facility Project
20 Elm Street
Village of Owego
Town of Owego
Tioga County, New York

Appendix B

EAF Mapper Summary Report

Monday, March 18, 2019 4:10 PM

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

B.i.i [Coastal or Waterfront Area]	No
B.i.ii [Local Waterfront Revitalization Area]	No
C.2.b. [Special Planning District]	Yes - Digital mapping data are not available for all Special Planning Districts. Refer to EAF Workbook.
C.2.b. [Special Planning District - Name]	NYS Major Basins:Upper Susquehanna, Remediaton Sites:754012
E.1.h [DEC Spills or Remediation Site - Potential Contamination History]	Yes - Digital mapping data for Spills Incidents are not available for this location. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Listed]	Yes
E.1.h.i [DEC Spills or Remediation Site - Environmental Site Remediation Database]	Yes
E.1.h.i [DEC Spills or Remediation Site - DEC ID Number]	754012
E.1.h.iii [Within 2,000' of DEC Remediation Site]	Yes
E.1.h.iii [Within 2,000' of DEC Remediation Site - DEC ID]	754015, 754012
E.2.g [Unique Geologic Features]	No
E.2.h.i [Surface Water Features]	No
E.2.h.ii [Surface Water Features]	No
E.2.h.iii [Surface Water Features]	No
E.2.h.v [Impaired Water Bodies]	No
E.2.i. [Floodway]	No
E.2.j. [100 Year Floodplain]	Yes
E.2.k. [500 Year Floodplain]	No
E.2.l. [Aquifers]	Yes

E.2.l. [Aquifer Names]	Principal Aquifer, Primary Aquifer, Sole Source Aquifer Names:Clinton Street Ballpark SSA
E.2.n. [Natural Communities]	No
E.2.o. [Endangered or Threatened Species]	No
E.2.p. [Rare Plants or Animals]	No
E.3.a. [Agricultural District]	No
E.3.c. [National Natural Landmark]	No
E.3.d [Critical Environmental Area]	No
E.3.e. [National or State Register of Historic Places or State Eligible Sites]	Yes - Digital mapping data for archaeological site boundaries are not available. Refer to EAF Workbook.
E.3.e.ii [National or State Register of Historic Places or State Eligible Sites - Name]	
E.3.f. [Archeological Sites]	Yes
E.3.i. [Designated River Corridor]	No

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Fish and Wildlife, New York Natural Heritage Program
625 Broadway, Fifth Floor, Albany, NY 12233-4757
P: (518) 402-8935 | F: (518) 402-8925
www.dec.ny.gov

June 14, 2019

Alicia Shultz
Governor's Office of Storm Recovery
38-40 State Street
Albany, NY 12207

Re: Village of Owego Municipal Facility Project
County: Tioga Town/City: Owego

Dear Ms. Shultz:

In response to your recent request, we have reviewed the New York Natural Heritage Program database with respect to the above project.

We have no records of rare or state-listed animals or plants, or significant natural communities at the project site.

In the Susquehanna River about .35 mile from the project site, the freshwater mussel **yellow lampmussel** (*Lampsilis cariosa*, not listed by NYS but rare in the state) has been documented. The rare damselfly **spatterdock darner** (*Rhionaeschna mutata*, also unlisted) has also been documented in the vicinity. If the proposed work is conducted so as not to impact the Susquehanna River, including runoff or erosion from the project site, on we do not expect any significant impacts to the rare species there.

For most sites, comprehensive field surveys have not been conducted. We cannot provide a definitive statement on the presence or absence of all rare or state-listed species or significant natural communities. Depending on the nature of the project and the conditions at the project site, further information from on-site surveys or other resources may be required to fully assess impacts on biological resources.

For information regarding other permits that may be required under state law for regulated areas or activities (e.g., regulated wetlands), please contact the NYS DEC Region 7 Office, Division of Environmental Permits, at dep.r7@dec.ny.gov.

Sincerely,

Nicholas Conrad
Information Resources Coordinator
New York Natural Heritage Program

725

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Environmental Resource Mapper

Base Map: Satellite with Labels | Using this map

- Search
- Tools
- **Layers and Legend**

All Layers

- Unique Geological Features
- Waterbody Classifications for Rivers/Streams
- Waterbody Classifications for Lakes
- State Regulated Freshwater Wetlands
- State Regulated Wetland Checkzone
- Significant Natural Communities
- Natural Communities Near This Location
- Rare Plants or Animals

- Other Wetland Layers
- Reference Layers
- Tell Me More...
- Need A Permit?
- Contacts

Environmental Resource Mapper

The coordinates of the point you clicked on are:

UTM 18	**Easting:**	395041.792	**Northing:**	4662090.911
Longitude/Latitude	**Longitude:**	-76.269	**Latitude:**	42.104

The approximate address of the point you clicked on is:
30 Elm St, Owego, New York, 13827

County: Tioga
Town: Owego
Village: Owego
USGS Quad: OWEGO

DEC Region

Region 7:
(Central New York) Broome, Cayuga, Chenango, Cortland, Madison, Onondaga, Oswego, Tioga and Tompkins counties.
For more information visit **http://www.dec.ny.gov/about/615.html**.

Rare Plants and Rare Animals

This location is in the vicinity of Rare Freshwater Mussels – Not Listed by NYS

This location is in the vicinity of Rare Dragonflies and Damselflies – Not Listed by NYS

If your project or action is within or near an area with a rare animal, a permit may be required if the species is listed as endangered or threatened and the department determines the action may be harmful to the species or its habitat.

If your project or action is within or near an area with rare plants and/or significant natural communities, the environmental impacts may need to be addressed.

The presence of a unique geological feature or landform near a project, unto itself, does not trigger a requirement for a NYS DEC permit. Readers are advised, however, that there is the chance that a unique feature may also show in another data layer (ie. a wetland) and thus be subject to permit jurisdiction.

Please refer to the "Need a Permit?" tab for permit information or other authorizations regarding these natural resources.

Disclaimer: If you are considering a project or action in, or near, a wetland or a stream, a NYS DEC permit may be required. The Environmental Resources Mapper does not show all natural resources which are regulated by NYS DEC, and for which permits from NYS DEC are required. For example, Regulated Tidal Wetlands, and Wild, Scenic, and Recreational Rivers, are currently not included on the maps.

EAF Mapper Summary Report

Monday, March 18, 2019 4:10 PM

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

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C.2.b. [Special Planning District]	Yes - Digital mapping data are not available for all Special Planning Districts. Refer to EAF Workbook.
C.2.b. [Special Planning District - Name]	NYS Major Basins:Upper Susquehanna, Remediaton Sites:754012
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E.1.h.iii [Within 2,000' of DEC Remediation Site - DEC ID]	754015, 754012
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E.2.h.i [Surface Water Features]	No
E.2.h.ii [Surface Water Features]	No
E.2.h.iii [Surface Water Features]	No
E.2.h.v [Impaired Water Bodies]	No
E.2.i. [Floodway]	No
E.2.j. [100 Year Floodplain]	Yes
E.2.k. [500 Year Floodplain]	No
E.2.l. [Aquifers]	Yes

E.2.l. [Aquifer Names]	Principal Aquifer, Primary Aquifer, Sole Source Aquifer Names:Clinton Street Ballpark SSA
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E.2.o. [Endangered or Threatened Species]	No
E.2.p. [Rare Plants or Animals]	No
E.3.a. [Agricultural District]	No
E.3.c. [National Natural Landmark]	No
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E.3.e.ii [National or State Register of Historic Places or State Eligible Sites - Name]	
E.3.f. [Archeological Sites]	Yes
E.3.i. [Designated River Corridor]	No

Governor's Office of Storm Recovery

ANDREW M. CUOMO
Governor

May 28, 2019

Robyn A. Niver
Endangered Species Biologist,
U.S. Fish & Wildlife Service
New York Field Office
3817 Luker Rd.
Cortland, NY 13045

VIA EMAIL: robyn_niver@fws.gov

Re: ESA/MBTA/BGEPA consultation for the Village of Owego Municipal Facility Project, 20 Elm Street, Village of Owego, Town of Owego, Tioga County, New York

Dear Ms. Niver:

The Governor's Office of Storm Recovery (GOSR), operating under the auspices of the New York State Homes and Community Renewal's (NYSHCR) Housing Trust Fund Corporation, was established to aid the statewide recovery of disaster-affected communities in New York State. GOSR is administering a U.S. Department of Housing and Urban Development (HUD) Community Development Block Grant for Disaster Recovery (CDBG-DR), including the New York Rising Community Reconstruction (NYRCR) Program. The environmental review for projects funded under the NYRCR Program are processed on a case by case basis in accordance with the United States Fish and Wildlife Service (USFWS) New York Field Office's online project review process.

The purpose of this letter is to provide the USFWS New York Field Office notice of the proposed project and to document compliance with Section 7 of the Endangered Species Act (ESA) (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.), as well as the Migratory Bird Treaty Act of 1918 (MBTA) (40 Stat. 755, as amended; 16 U.S.C. 703-712), and the Bald and Golden Eagle Protection Act of 1940 (BGEPA) (54 Stat. 240, as amended; 16 U.S.C. 668-668c). As discussed below, we have reviewed the project and found that the proposed project does not jeopardize the continued existence of ESA species or destroy or adversely modify their critical habitat. We are submitting project materials to document that GOSR has made a "**No Effect**" determination for the project described herein. If the USFWS does not respond within 30 days from submittal of this form, then GOSR may presume that its determination for the project is informed by the best available information and its project responsibilities under Section 7 of the ESA have been fulfilled.

1.0 PROJECT DESCRIPTION

The Village of Owego Municipal Facility Project (Project) will involve the construction of a new municipal building for the Village of Owego Department of Public Works at 20 Elm Street, Village of Owego, Town of Owego, Tioga County, New York. The new municipal building will be an approximately 5,000 square

foot (50 foot by 100 foot) steel framed building that is two (2) feet above the 100-year floodplain, which is 6 feet above the existing grade. The Project is located on vacant land approximately 50 feet to the west of an existing Department of Public Works building and maintenance garage. It is not anticipated that the Project will involve tree removal. Project location maps are included in **Appendix A** and Project design drawings are included in **Appendix B**.

The Project will include the following construction activities: installation of silt fence; removal of existing site vegetation, asphalt pavement, concrete sidewalk, and concrete curb; relocating existing boulders along an asphalt parking lot; clearing and grubbing the site to the required sub-grade elevation; providing additional fill and grading the site; construction of the proposed municipal building and interior spaces; installation of landings, stairs, ramps, pavement, conduit sleeves, parking delineation lines, a sanitary sewer line, a water service line, a utility pole, an overhead utility line, an underground utility line, and one (1) ADA compliant exterior ramp and stairs to accommodate elevated building access; connecting new water and sanitary services to the building from existing municipal lines; all necessary electrical, plumbing, and mechanical provisions and connections; and restoring the area with topsoil, seed, and mulch. The creation of a floodplain mitigation area will offset the floodplain loss that will result from infilling the floodplain in order to site the new building above the 100-year floodplain. The mitigation includes 5,600 square feet of flood venting in the new building and a 2,102 cubic foot retention pond. The mitigation actions will increase the floodplain storage by 172 cubic feet. The Village of Owego Floodplain Administrator has approved the floodplain mitigation.

The Village of Owego Department of Public Works is located in a 100-year floodplain and experienced catastrophic flooding from Hurricane Irene and Tropical Storm Lee in 2011. The existing building that houses the Department of Public Works and Code Enforcement is located approximately four (4) feet below the 100-year floodplain elevation. As a result of Hurricane Irene and Tropical Storm Lee, the Village of Owego's Department of Public Works building experienced flood waters approximately four (4) feet above the existing grade level, which is approximately two (2) feet below what will be the finished floor elevation for the new proposed building. The flooding caused the Village of Owego Department of Public Works building to be rendered inoperable. The Project mitigates this threat by constructing a new municipal facility that will be elevated two (2) feet above the 100-year floodplain, which will protect the building from future storm events and allow the Village of Owego to respond better and recover more quickly from future events.

2.0 ENDANGERED SPECIES ACT, MIGRATORY BIRD TREATY ACT, AND BALD AND GOLDEN EAGLE PROTECTION ACT PROTECTED SPECIES

The USFWS New York Ecological Services Field Office was contacted through the Information, Planning, and Conservation System (IPaC) regarding the potential presence of species under the jurisdiction of the USFWS within the Project area. According to the USFWS Official Species List, there is one (1) federally threatened species (northern long-eared bat) that might potentially occur at the proposed Project location (**Appendix C**). According to the USFWS Official Species List, there is no critical habitat for federally protected threatened and endangered species in the Project area.

The IPaC Resource List (included in **Appendix D**) obtained from the USFWS for the Project area indicates that there are migratory bird species of concern protected under the Migratory Bird Treaty Act and/or the Bald and Golden Eagle Protection Act that could potentially be affected by the proposed Project. There are no known breeding bald eagles within the vicinity of the Project area; therefore, no adverse impacts to breeding bald eagles are expected as a result of the Project. The primary nesting season for migratory birds is early April to mid-July. Precautions will be used to protect any migratory birds that may be found in or near the Project area. Such precautions include minimizing construction noise to the extent practicable, using care to avoid birds when operating machinery or vehicles near birds, and general contractor awareness of potential bird presence. We anticipate that these measures should avoid any take of migratory birds.

According to the NYSDEC Environmental Resource Mapper, the Project is located in the vicinity of rare dragonflies and damselflies and rare freshwater mussels that are not listed in New York State. There are no records of bats listed as endangered or threatened in the vicinity of the proposed Project (**Appendix E**).

A description of the one (1) federally threatened species identified by USFWS, and an evaluation of the likelihood that this species occurs within the Project area and would be affected by the Project is provided below. The species description is summarized from the NYSDEC fact sheet and USFWS species profile.

2.1 NORTHERN LONG-EARED BAT

The northern long-eared bat (NLEB) is a medium-sized bat that is distinguished by its long ears, particularly as compared to other bats in its genus. The northern long-eared bat is found across much of the eastern and north central United States. White-nose syndrome is the predominant threat to this bat, especially throughout the northeast where the species has declined by up to 99 percent from pre-white-nose syndrome levels at many hibernation sites. During summer, northern long-eared bats roost singly or in colonies underneath bark, in cavities, or in crevices of both live and dead trees, using tree species based on suitability to retain bark or provide cavities or crevices. They emerge at dusk to fly through the understory of forested hillsides and ridges feeding on moths, flies, leafhoppers, caddisflies, and beetles or by gleaning insects from vegetation and water surfaces. Northern long-eared bats spend winter hibernating in caves and mines. This bat prefers habitat with abundant stands of trees with sufficient bark crevices and snags for roosting habitat.

The Project is not anticipated to involve tree removal and the Project area is comprised of paved surfaces and mowed lawn in a commercial / residential area. The Project area does not provide suitable habitat for the NLEB. Based on the NYSDEC Environmental Resource Mapper, there are no records of bats listed as endangered or threatened, including the northern long-eared bat, in the vicinity of the Project area (**Appendix E**). Since the Project will not involve tree removal, will not disturb suitable NLEB habitat, and the NLEB has not been documented by the NYSDEC in the vicinity of the Project area, GOSR has determined that the proposed Project would have "**No Effect**" on the NLEB.

3.0 CONCLUSION

Project implementation would be conditioned upon issuance of applicable federal and State permits and would be constructed in accordance with federal and state permit requirements and their conditions. The proposed Project would not jeopardize the continued existence of ESA species or destroy or adversely modify their critical habitat. GOSR is submitting the above information as notification of its "**No Effect**" determination and requests acknowledgement from USFWS that they have received this determination that the proposed Project would have **No Effect** on endangered/threatened species, migratory birds, or critical habitat for species under USFWS jurisdiction.

For additional information, please contact me by email at Alicia.Shultz@nyshcr.org or by telephone at (518) 474-0647.

Sincerely,

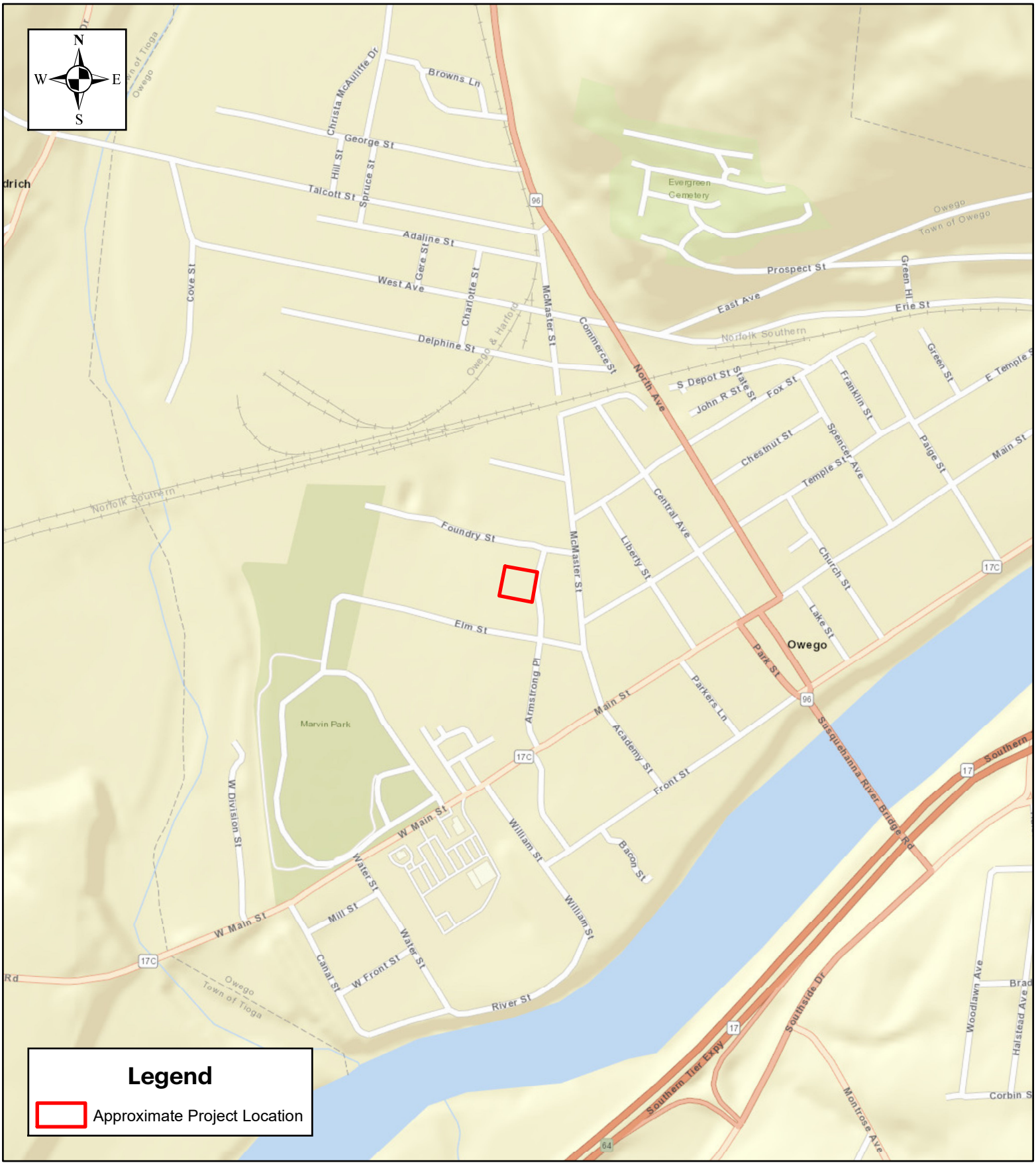
Alicia Shultz
Senior Environmental Scientist
New York State Homes & Community Renewal
38-40 State Street, 408N
Hampton Plaza
Albany, NY 12207

Attachments:

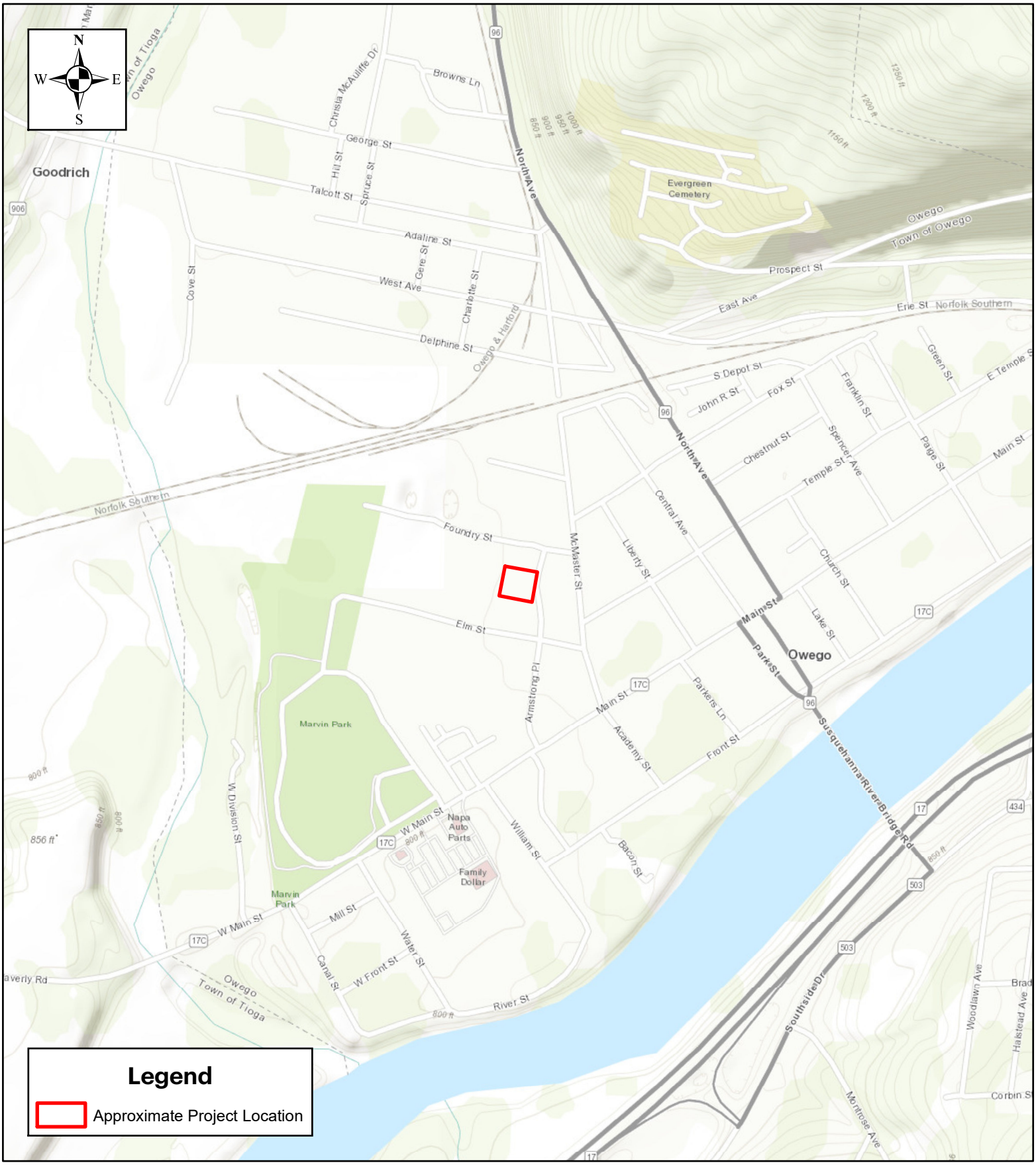
Appendix A: Project Location Maps
(Street Map, USGS Topographic Map, and Aerial Map)
Appendix B: Schematic Design Drawings
Appendix C: USFWS Official Species List
Appendix D: USFWS IPaC Resource List
Appendix E: NYSDEC Environmental Resource Map and EAF Mapper Summary Report

Appendix A

Street Map


N
W
E
S
Legend
Approximate Project Location
Foundry St
Elm St
Main St
W Main St
Marvin Park
Owego
Evergreen Cemetery
Norfolk Southern
Susquehanna River Bridge Rd
Southern Tier Expy
Southside Dr
Prospect St
East Ave
West Ave
Delphine St
Adaline St
George St
Talcott St
Browns Ln
Christa McAuliffe Dr
Hill St
Spruce St
Cove St
Charlotte St
Gere St
McMaster St
Commerce St
North Ave
Erie St
Green St
Franklin St
Chestnut St
Temple St
Spencer Ave
Paige St
Liberty St
Central Ave
Church St
Lake St
Park St
Parkers Ln
Academy St
Front St
Armstrong Pl
William St
Bacon St
Water St
Mill St
Canal St
W Front St
River St
W Division St
Woodlawn Ave
Halstead Ave
Montrose Ave
Corbin St
Owego & Harford
Town of Owego
Town of Tioga
1:10,000
0
500
1,000
2,000 Feet
Tectonic
Village of Owego Municipal Facility Project
20 Elm Street
Village of Owego
Town of Owego
Tioga County, New York

Topographic Map



Tectonic

1:10,000

0 500 1,000 2,000 Feet

Village of Owego Municipal Facility Project
20 Elm Street
Village of Owego
Town of Owego
Tioga County, New York

Aerial Map

Tectonic

1:500

0 25 50 100 Feet

Village of Owego Municipal Facility Project
20 Elm Street
Village of Owego
Town of Owego
Tioga County, New York

Appendix B

NEW MUNICIPAL BUILDING

20 ELM STREET
OWEGO, NEW YORK 13827

NEW MUNICIPAL BUILDING

30% SCHEMATIC

VILLAGE OF OWEGO

VILLAGE OF OWEGO
Coolest Small Town – 2009

178 MAIN STREET
OWEGO, NEW YORK 13827

Governor's Office of Storm Recovery

Seal & Signature

CIVIL ENGINEER:

DELTA ENGINEERS, ARCHITECTS AND LAND SURVEYORS
860 HOOPER ROAD
ENDWELL, NY 13760
607-231-6600

Seal & Signature

STRUCTURAL ENGINEER:

DELTA ENGINEERS, ARCHITECTS AND LAND SURVEYORS
860 HOOPER ROAD
ENDWELL, NY 13760
607-231-6600

Seal & Signature

ARCHITECT:

DELTA ENGINEERS, ARCHITECTS AND LAND SURVEYORS
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PLUMBING ENGINEER:

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MECHANICAL ENGINEER:

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ENDWELL, NY 13760
607-231-6600

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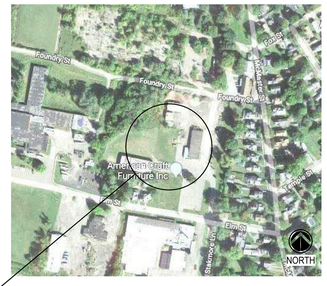
ELECTRICAL ENGINEER:

DELTA ENGINEERS, ARCHITECTS AND LAND SURVEYORS
860 HOOPER ROAD
ENDWELL, NY 13760
607-231-6600

LIST of DRAWINGS

LOCATION PLAN

SITE PLAN

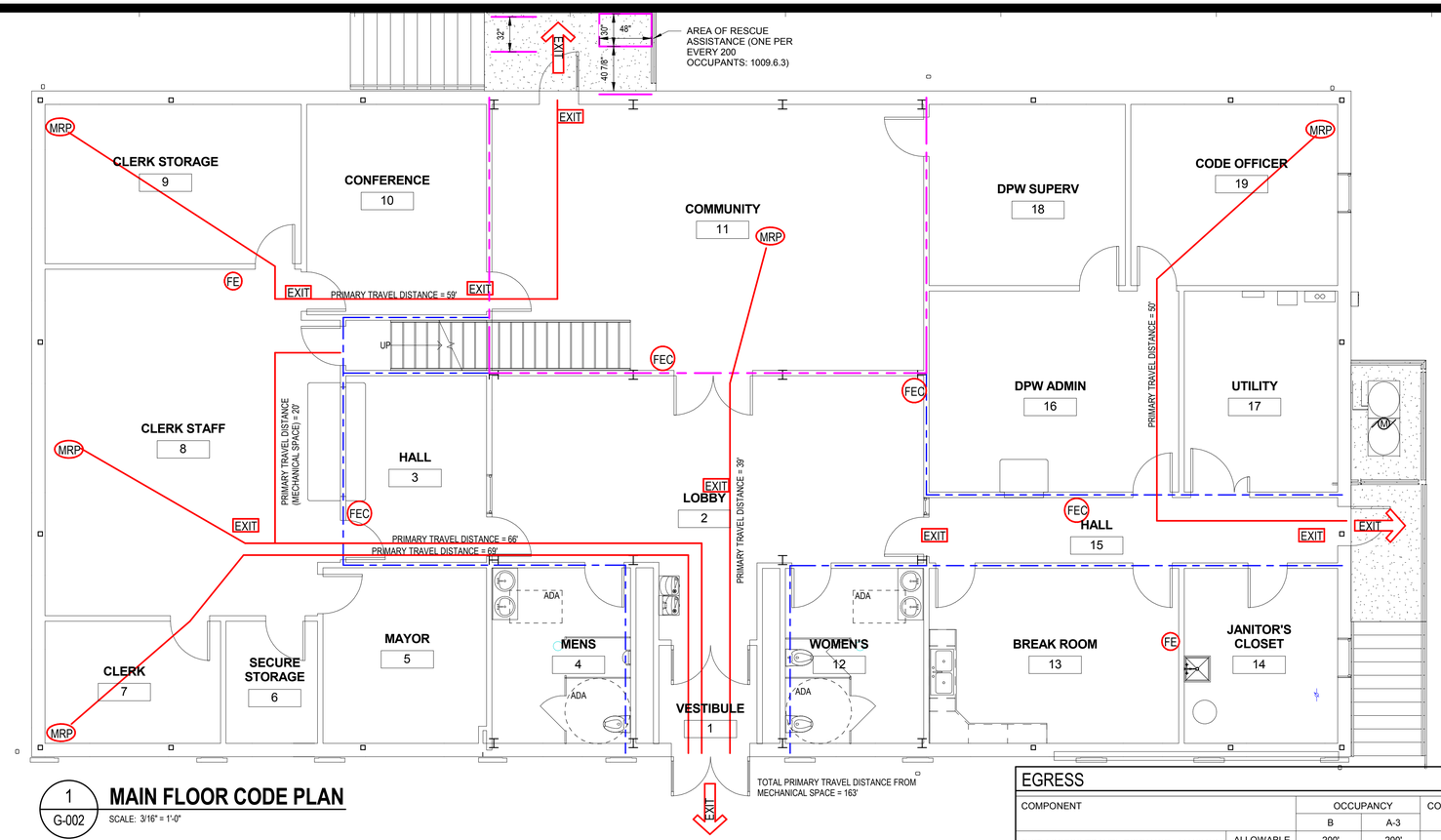


PROJECT LOCATION

NEW YORK STATE OF OPPORTUNITY. DASNY

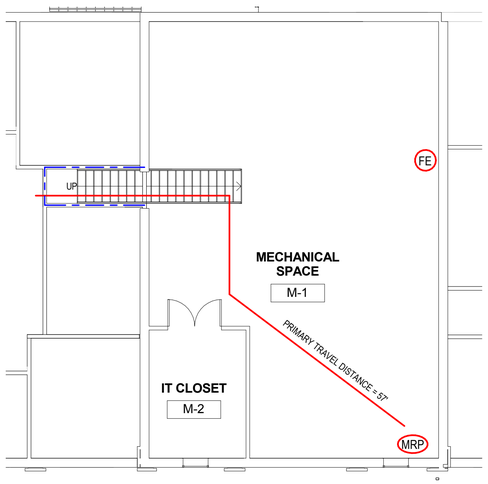
515 Broadway, Albany, New Yrok 12207-2964
One Penn Plaza, 52 Floor, NY, NY 10119-0098
539 Franklin Stree, Buffalo, NY 14202-1109
WWW.DASNY.ORG

NEW MUNICIPAL BUILDING
OWEGO, NEW YORK
30% SCHEMATIC
Date: 02/28/19
DASNY Project No: 33992099999



1 G-002 **MAIN FLOOR CODE PLAN**

SCALE: 3/16" = 1'-0"



2 G-002 **MECHANICAL SPACE CODE PLAN**

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

APPLICABLE CODES

BUILDING CODE:	International Building Code 2015 (IBC) - NYS Uniform Supplement 2017
STRUCTURAL CODE:	ACI 318-14 Building Code Requirements for Structural Concrete ACI 530-13 Building Code Requirements for Masonry Structures ASCE 7-10 Minimum Design Loads for Buildings & Other Structures AISC 360-10 Specification for Structural Steel Buildings International Building Code 2015 - NYS Uniform Supplement 2017
ACCESSIBILITY CODE:	ICC/ANSI A117.1-09 Accessible and Usable Buildings and Facilities, International Building Code 2015 (Chapter 11) - NYS Uniform Supplement 2017
ENERGY CODE:	International Energy Conservation Construction Code 2015 - NYS Uniform Supplement 2017 ASHRAE 90.1-10 Commercial Building Energy Code
FIRE CODE:	International Fire Code 2015 - NYS Uniform Supplement 2017
MECHANICAL CODE:	International Mechanical Code 2015 - NYS Uniform Supplement 2017
PLUMBING CODE:	International Plumbing Code 2015 - NYS Uniform Supplement 2017
ELECTRICAL CODE:	National Electrical Code 2014

*Refer to each trades respected general sheets for additional code information.

BUILDING DATA

FUNCTION:	MUNICIPAL BUILDING
CLASSIFICATION:	PRIMARY USE: BUSINESS (B), ACCESSORY USE ASSEMBLY (A-3)
SEPARATION:	2 HR - SEPARATED MIXED USE (508.4)
CONSTRUCTION TYPE:	II-B
FIRE PROTECTION:	PORTABLE FIRE EXTINGUISHERS, SMOKE DETECTION

HEIGHT AND AREA (PER FIRE AREA)

ALLOWABLE HEIGHT AND AREA PER TABLES 504.3; 506.2 (Construction Type II-B)

GROUP	MAX. ALLOW. HT. (FT)	ACTUAL HT. (FT)	MAX. ALLOW. HT. (STORIES)	ACTUAL HT. (STORIES)	MAX. ALLOW. AREA (SQ.FT./FLR)	ACTUAL (SQ.FT.)
B	55'	30'	2	2	23,000*	6,592*

*VALUES INDICATED DO NOT INCLUDE AREAS (FRONTAGE) AND SPRINKLER INCREASES

BUILDING OCCUPANCY LOAD

OCCUPANCY USE GROUP	AREA (sq ft)	AREA PER OCCUPANT (sq ft/ Occ.) BC 1004.1.2	OCCUPANT LOAD
BUSINESS (B)	4,306	100 GROSS	43
BUSINESS (B) - NOT ACCESSIBLE TO PUBLIC	1,592		
ASSEMBLY AREA (A-3)	694	7 NET	99
TOTAL	5,000		142

EGRESS

COMPONENT		OCCUPANCY B	OCCUPANCY A-3	CODE REF.
EXIT ACCESS TRAVEL DISTANCE - MAXIMUM	ALLOWABLE	200'	200'	IBC 1017.2
	ACTUAL	163'	39'	
COMMON PATH OF TRAVEL - MAXIMUM	ALLOWABLE	75'	75'	IBC 1006.2.1
	ACTUAL	34'	34'	
DEAD END CORRIDOR - MAXIMUM	ALLOWABLE	20'	20'	IBC 1020.4
	ACTUAL	N/A	N/A	
# OF ACCESSIBLE MEANS OF EGRESS	ALLOWABLE	2	2	IBC 1009.1
	ACTUAL	3	2	
MINIMUM CORRIDOR WIDTH	ALLOWABLE	44"	N/A	IBC 1020.2
	ACTUAL	60"	N/A	
MINIMUM EGRESS DOOR WIDTH	ALLOWABLE	32"	32"	IBC 1008.1.1
	ACTUAL	36"	36"	
MINIMUM STAIR WIDTH	ALLOWABLE	36"	N/A	IBC 1011.1
	ACTUAL	44"	N/A	
MINIMUM STAIR HEADROOM	ALLOWABLE	80"	N/A	IBC 1011.3
	ACTUAL	108"	N/A	
MINIMUM TREAD / MAXIMUM RISER	ALLOWABLE	7"/11" MIN.	N/A	IBC 1011.5.2
	ACTUAL	6-1/2"/11"	N/A	
MAXIMUM STAIR VERTICAL RISE	ALLOWABLE	12'	N/A	IBC 1011.8
	ACTUAL	11'	N/A	

EXITS*

NUMBER OF EXITS PER FLOOR	REQUIRED	ACTUAL	CODE REF.
BUSINESS (B) - 43 OCCUPANTS	2	3	IBC 1006.3.1
ASSEMBLY (A-3) - 99 OCCUPANTS	2	2	

EXIT CAPACITY CALCULATED AT 0.20" / OCCUPANT (B, A-3)	INCH/OPENING	OPENINGS	CODE REF.
BUSINESS (B) - 43 OCCUPANTS	8.6"	2 OPNGS @ 72" + 1 OPNG @ 36" = 180"	IBC 1005.3.2
ASSEMBLY (A-3) - 99 OCCUPANTS	28.4"	2 OPNGS @ 72" = 144"	

PLUMBING FIXTURES

TOILET FIXTURE REQUIREMENTS PER TABLE P403.1 OF THE INTERNATIONAL PLUMBING CODE 2015

OCCUPANCY	WATER CLOSETS MALE	WATER CLOSETS FEMALE	LAVATORY MALE	LAVATORY FEMALE	BATH/ SHOWER	DRINKING FOUNTAIN	SERVICE SINK
B	1/25 (FIRST 50) 1/50(REMAINDER)	1/25 (FIRST 50) 1/50(REMAINDER)	1/40 (FIRST 80) 1/80(REMAINDER)	1/40 (FIRST 80) 1/80(REMAINDER)	N/A	1 PER 100	1
A-3	1 PER 150	1 PER 75	1 PER 200	1 PER 200	N/A	1 PER 1,000	1

REQUIRED NUMBER OF TOILET FIXTURES / **NUMBER OF TOILET FIXTURES PROVIDED**

OCCUPANCY	WATER CLOSETS MALE	WATER CLOSETS FEMALE	LAVATORY MALE	LAVATORY FEMALE	BATH/ SHOWER	DRINKING FOUNTAIN	SERVICE SINK
B M: 21 F: 22	2	2	2	2	N/A	1	1
A-3 M: 49 F: 50	1	1	1	1	N/A	1	1
TOTAL	4 / **4**		4/ **4**			1 / **1**	1 / **1**

FIRE RESISTANCE - II-B

	REQ'D HOURS	ACTUAL	CODE REF.
STRUCTURAL FRAME	0	0	TABLE 601
BEARING WALLS - INTERIOR AND EXTERIOR	0	0	TABLE 601
NON BEARING WALLS AND INTERIOR PARTITIONS	0	0	TABLE 601
FLOOR CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS	0	0	TABLE 601
ROOF CONSTRUCTION INCLUDING SUPPORTING BEAMS	0	0	TABLE 601
EXIT ENCLOSURES	1	N/A	1023.2
FIRE BARRIERS (SEPARATED MIXED USE)	2	2	508.4
CORRIDORS	1	1	1020.1
INCIDENTAL USE ROOM	N/A	N/A	TABLE BC509

OPENING PROTECTIVES REQUIREMENTS IBC 716

TYPE OF ASSEMBLY	MINIMUM FIRE DOOR RATING - IBC 716.5
FIRE BARRIER 2 HR	90 MINUTE
FIRE BARRIER 1 HR	45 MINUTE
CORRIDOR WALLS 1 HR	20 MINUTE - IBC 716.5.3
	MINIMUM FIRE WINDOW RATING - IBC 716.2
FIRE BARRIER 2 HR	120 MINUTE

INTERIOR FINISH REQUIREMENTS

PER TABLE 803.11 *NON-SPRINKLERED	OCCUPANCY B REQ.	B ACTUAL	A-3 REQ.	A-3 ACTUAL
EXIT ENCLOSURES AND EXIT PASSAGEWAYS	CLASS A	CLASS A	CLASS A	CLASS A
CORRIDORS	CLASS B	CLASS A	CLASS A	CLASS A
ROOMS AND ENCLOSED SPACE	CLASS C	CLASS A	CLASS C	CLASS A

ENERGY CODE

		CODE REF.
CLIMATE ZONE	ZONE 5	TABLE ECC301.1
COMPLIANCE PATH: Prescriptive	COMPLIES	ECC402

ENERGY CODE Prescriptive

BUILDING ENVELOPE	REQUIRED	ACTUAL	ECC402
ABOVE GRADE WALL ASSEMBLIES (METAL FRAMED BUILDING)			TABLE ECC402.1.3
BELOW GRADE	R-7.5 CONT	XXX	
ABOVE GRADE	R-13 + R-7.5 CONT	XXX	TABLE ECC402.1.4
ROOF ASSEMBLIES			
ABOVE DECK	R-30	R-33	(NYS 2016 SUPPLEMENT)
UNHEATED SLABS			
ABOVE GRADE FLOORS	R-12.5	R-15 @ 2.5"	
OPAQUE DOORS			
NON-SWINGING	N/A	N/A	
EXTERIOR SWINGING DOORS	U-0.37	U-0.77 MAX.	
VERTICAL FENESTRATIONS			TABLE ECC402.4
METAL WINDOWS	U-0.36	U-0.36 MAX.	
SHGC	0.40	0.10	

LIFE SAFETY LEGEND

- 1 HOUR FIRE RESISTANCE RATING
- 2 HOUR FIRE RESISTANCE RATING (N/A)
- PRIMARY EGRESS PATH
- SECONDARY EGRESS PATH
- TD — TRAVEL DISTANCE TO EXIT
- MRP — MOST REMOTE POINT OF EGRESS ACCESS
- FE — FIRE EXTINGUISHER
- FEC — FIRE EXTINGUISHER CABINET
- EXIT — EXIT DISCHARGE
- EXIT — EXIT SIGNAGE

NORTH

0' 2' 4' 8' 16'
SCALE: 1/8" = 1'-0"

0' 2'-8" 5'-4" 10'-8"
SCALE: 3/16" = 1'-0"

NEW YORK STATE OF OPPORTUNITY. DASNY

515 Broadway, Albany, New Yrok 12207-2964
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WWW.DASNY.ORG

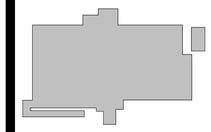
Consultants:

DELTA ENGINEERS, ARCHITECTS & LAND SURVEYORS
860 HOOPER ROAD
ENDWELL, NY, 13760
607-231-6600
2016.194.013

Governor's Office of Storm Recovery

VILLAGE OF OWEGO
Coolest Small Town – 2009

Project Key



REVISIONS

Rev No	Description	Date:

Client

VILLAGE OF OWEGO

Project Title

NEW MUNICIPAL BUILDING

OWEGO, NEW YORK

Drawing Title

CODE AND LIFE SAFETY PLAN

Phase

30% SCHEMATIC

Drawn By:	Checked By:	Date:
DVS	CMW	02/28/19

Seal & Signature

DASNY Project No: 339920

Drawing Number G-002

EXISTING LEGEND:

- Denotes Existing Iron Rod
- Denotes Existing Iron Pipe
- Denotes Set Iron Rod
- Denotes Existing Boulder
- WV — Denotes Existing Water Valve
- GV — Denotes Existing Gas Valve
- Denotes Existing Power Pole
- FH — Denotes Existing Fire Hydrant
- MH — Denotes Existing Manhole
- W — Denotes Water Line
- ST — Denotes Storm Sewer Line
- SA — Denotes Sanitary Sewer Line
- G — Denotes Gas Line
- O/H — Denotes Overhead Electric Line
- TEL — Denotes Telephone Line
- Denotes Existing Sign
- FFE — Denotes Finish Floor Elevation
- BM — Denotes Set Bench Mark
- 810.44 — Denotes Existing Ground Elevation
- 810 — Denotes Existing Ground Contour
- GM — Denotes Existing Gas Meter
- Denotes Existing Square Catch Basin
- Denotes Existing Mail Box
- Denotes Existing Gravel Area
- Denotes Existing Concrete Area
- Denotes Existing Concrete Area

INVERT TABLE PER RECORD PLAN

CATCH BASIN #1 (CB #1)
RIM 810.26'
N 808.8'

CATCH BASIN #2 (CB #2)
RIM 809.74'
N 806.2', SE 806.1', SW 806.7'

CATCH BASIN #3 (CB #3)
RIM 811.32'
BOT. 810.0', (SURCHARGED)

SEPTIC TANK-1
RIM 811.70'
S 807.6', (TANK)

SEPTIC TANK-2
RIM 809.49'
COULD NOT OPEN (PER RECORD)

SANITARY MANHOLE #1 (SA MH #1)
RIM 810.93'
NO INVERT PROVIDED

SANITARY MANHOLE #2 (SA MH #2)
RIM 810.01'
SE 807.7', NW 807.7'

1 EXISTING CONDITIONS PLAN
C-001
SCALE: 1" = 30'

NORTH

60' 30' 0' 30' 60'
GRAPHIC SCALE: 1"=30'

NEW YORK STATE OF OPPORTUNITY. DASNY

515 Broadway, Albany, New Yrok 12207-2964
One Penn Plaza, 52 Floor, NY, NY 10119-0098
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Consultants:

DELTA ENGINEERS, ARCHITECTS & LAND SURVEYORS
860 HOOPER ROAD
ENDWELL, NY, 13760
607-231-6600

Governor's Office of Storm Recovery

VILLAGE OF OWEGO
Cracker Small Town – 2009

Project Key

REVISIONS

Rev No.	Description	Date:

Client
VILLAGE OF OWEGO

Project Title
NEW MUNICIPAL BUILDING
VILLAGE OF OWEGO, NY

Drawing Title
EXISTING CONDITIONS PLAN

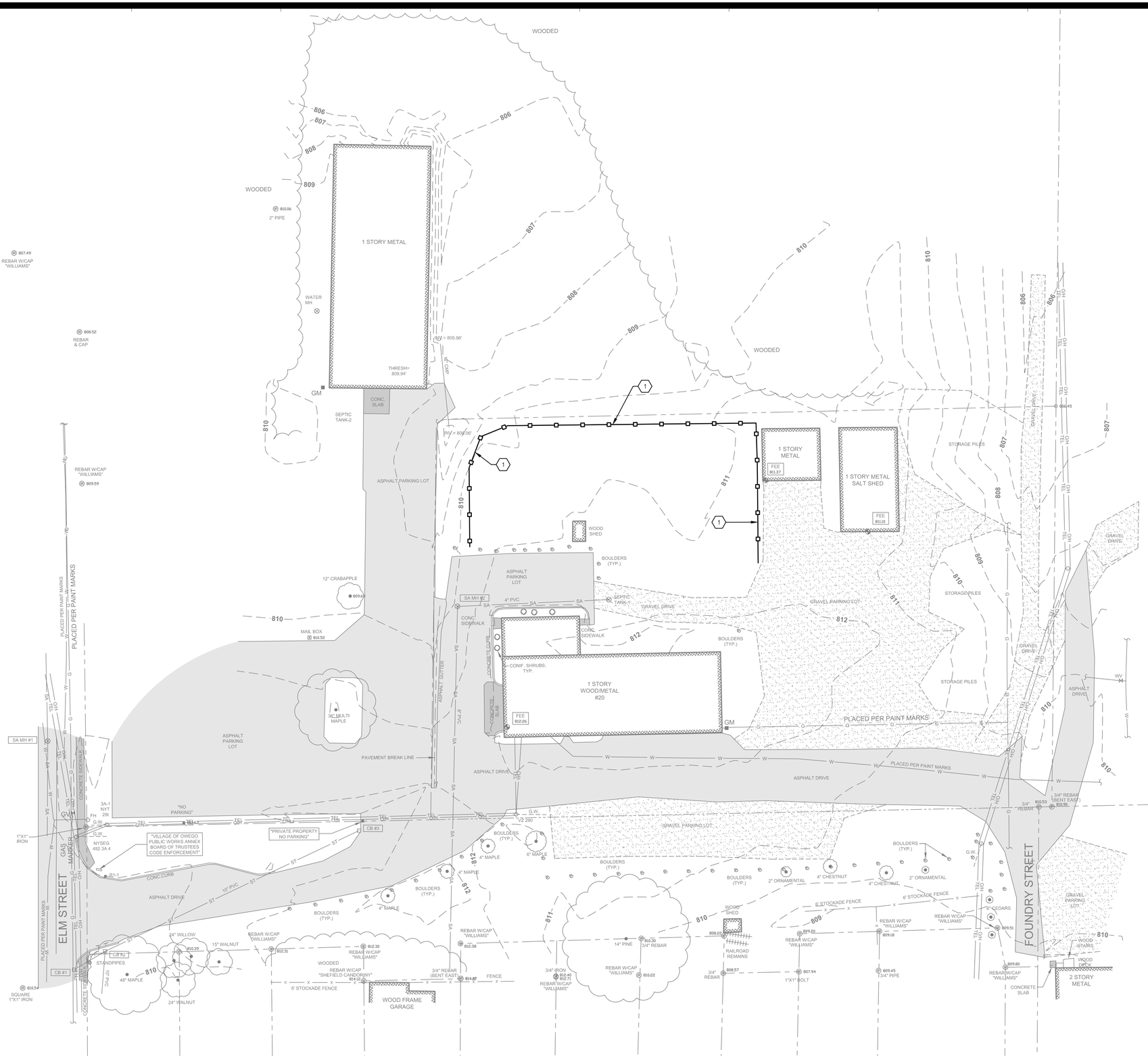
Phase
30% SCHEMATIC

Drawn By:	Checked By:	Date:
RH	CLZ	02/28/2019

Seal & Signature

DASNY Project No.
339920

Drawing Number
C-001



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- Denotes Existing Mail Box
- Denotes Existing Gravel Area
- Denotes Existing Concrete Area
- Denotes Existing Concrete Area

PROPOSED LEGEND:

SILT FENCE	

#	KEY NOTES
1	PROVIDE SILT FENCE. SEE DETAIL 2/C-301.

1 / C-101 **EROSION AND SEDIMENT CONTROLS PLAN**
SCALE: 1" = 30'

NORTH

60' 30' 0' 30' 60'
GRAPHIC SCALE: 1"=30'

NEW YORK STATE OF OPPORTUNITY. DASNY

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Consultants:

DELTA ENGINEERS, ARCHITECTS & LAND SURVEYORS
860 HOOPER ROAD
ENDWELL, NY, 13760
607-231-6600

Governor's Office of Storm Recovery

VILLAGE OF OWEGO
Cookiest Small Town – 2009

Project Key

REVISIONS		
Rev No.	*Description*	*Date:*

Client
VILLAGE OF OWEGO

Project Title
NEW MUNICIPAL BUILDING

VILLAGE OF OWEGO, NY

Drawing Title
EROSION AND SEDIMENT CONTROLS PLAN

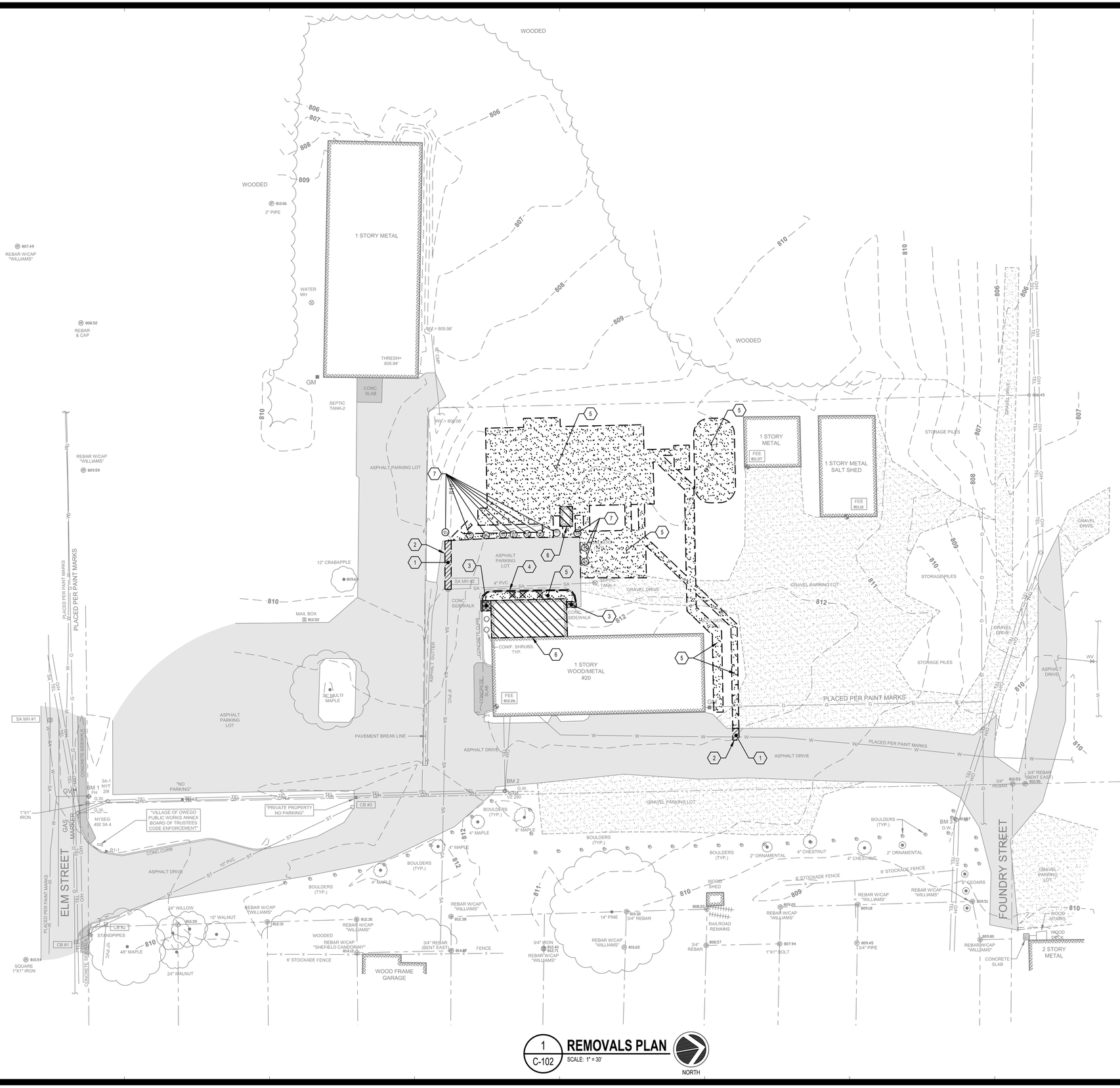
Phase
30% SCHEMATIC

Drawn By:	*Checked By:*	*Date:*
RH	CLZ	02/28/2019

Seal & Signature

DASNY Project No: 339920

Drawing Number C-101



1 / C-102 **REMOVALS PLAN**
SCALE: 1" = 30'

NORTH

EXISTING LEGEND:

- Denotes Existing Iron Rod
- Denotes Existing Iron Pipe
- Denotes Set Iron Rod
- Denotes Existing Boulder
- WV — Denotes Existing Water Valve
- GV — Denotes Existing Gas Valve
- Denotes Existing Power Pole
- FH — Denotes Existing Fire Hydrant
- MH — Denotes Existing Manhole
- W — Denotes Water Line
- ST — Denotes Storm Sewer Line
- SA — Denotes Sanitary Sewer Line
- G — Denotes Gas Line
- OHE — Denotes Overhead Electric Line
- TEL — Denotes Telephone Line
- Denotes Existing Sign
- FFE — Denotes Finish Floor Elevation
- BM — Denotes Set Bench Mark
- 810.44 — Denotes Existing Ground Elevation
- 810 — Denotes Existing Ground Contour
- GM — Denotes Existing Gas Meter
- Denotes Existing Square Catch Basin
- Denotes Existing Mail Box
- Denotes Existing Gravel Area
- Denotes Existing Concrete Area
- Denotes Existing Concrete Area

REMOVAL LEGEND:

CURB DEMOLITION	
ASPHALT PAVEMENT DEMOLITION	
CONCRETE SIDEWALK DEMOLITION	
BUILDING DEMOLITION	
LANDSCAPE DEMOLITION	
TREE DEMOLITION	

#	REMOVAL KEY NOTES
1	REMOVE ASPHALT PAVEMENT.
2	NEATLY SAW-CUT EXISTING ASPHALT PAVEMENT.
3	REMOVE CONCRETE SIDEWALK.
4	REMOVE CONCRETE CURB.
5	CLEAR AND GRUB LANDSCAPE AREA EXCAVATE TO REQUIRED SUB-GRADE ELEVATION.
6	REMOVE EXISTING STRUCTURE.
7	RELOCATE EXISTING BOULDERS ALONG ASPHALT PARKING LOT. COORDINATE WITH OWNER FOR STORAGE LOCATION.

GENERAL NOTES:

1. ALL ASPHALT, CONCRETE, CONCRETE CURB AND SUBBASE REMOVED SHALL BE DISPOSED OF OFF SITE.

CALL BEFORE YOU DIG:
NYS CODE RULE 753 REQUIRES THAT YOU CALL BEFORE YOU DIG
Know what's below. Call 811 before you dig.
CALL DIG SAFELY NEW YORK AT 811 OR 1-800-962-7962

60' 30' 0' 30' 60'
GRAPHIC SCALE: 1"=30'

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Governor's Office of Storm Recovery

VILLAGE OF OWEGO
Crookest Small Town – 2009

Project Key

REVISIONS

Rev No	Description	Date:

Client
VILLAGE OF OWEGO

Project Title
NEW MUNICIPAL BUILDING
VILLAGE OF OWEGO, NY

Drawing Title
REMOVALS PLAN

Phase
30% SCHEMATIC

Drawn By:	Checked By:	Date:
RH	CLZ	02/28/2019

Seal & Signature

DASNY Project No: 339920

Drawing Number C-102

ZONING INFORMATION

MUNICIPALITY	VILLAGE OF OWEGO	
STATUS	ZONED "I" INDUSTRIAL DISTRICT	
ITEM	REQUIRED	PROPOSED*
Minimum Lot Size	9,000 S.F.	± 95,300 S.F.
Minimum Lot Width	60 Feet	± 248 Feet
Maximum Lot Coverage	38,158.56 S.F. (40% Lot Coverage Including Accessory Buildings)	Maintenance Garage (W/Removal) - 6,782.08 S.F. Storage Building - 1,166.24 S.F. Storage Building - 2,345.57 S.F. Proposed Building - 5,000 S.F. Total - 15,293.89 S.F.
Maximum Building Footprint	N/A	N/A
Maximum Building Height	45 Feet (Not To Exceed Three Stories)	<45 Feet
Minimum Front Yard Setback	25 Feet	25 Feet
Minimum Side Yard Setback	10 Feet	10 Feet
Minimum Rear Yard Setback	10% Lot Depth	39 Feet
VILLAGE CODES		
Address	20 Elm Street, Owego, NY 13827	
Code Enforcement Officer	Chuck Bement	
Phone Number	(607) 687-1221	

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- Denotes Existing Mail Box
- Denotes Existing Gravel Area
- Denotes Existing Concrete Area
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PROPOSED LEGEND:

ASPHALT PAVEMENT	
CONCRETE	
GRAVEL	
RESTORED LAWN	
UTILITY POLE	
OVERHEAD ELECTRIC	O/H
UNDERGROUND ELECTRIC	U/E
UNDERGROUND WATER	W
UNDERGROUND SANITARY SEWER	SA
SANITARY SEWER CLEANOUT	
UNDERGROUND FIBER OPTIC	FO

KEY NOTES

#	
1	REPLACE ASPHALT PAVEMENT. MATCH EXISTING AND SEAL JOINTS.
2	PROVIDE 4" PVC SANITARY SEWER LINE.
3	PROVIDE 1" DOMESTIC WATER SERVICE LINE.
4	UTILITY POLE. SEE ELECTRICAL PLANS FOR MORE INFORMATION.
5	OVERHEAD UTILITY. SEE ELECTRICAL PLANS FOR MORE INFORMATION.
6	UNDERGROUND UTILITY. SEE ELECTRICAL PLANS FOR MORE INFORMATION.
7	CORE INTO EXISTING STRUCTURE AND CONNECT SANITARY SEWER PIPE.
8	PROVIDE SANITARY SEWER CLEANOUT.
9	PARKING DELINEATION LINES. NO STRIPING TO BE PROVIDED.
10	GENERATOR. SEE MECHANICAL PLANS FOR MORE INFORMATION.
11	CONCRETE LANDINGS, STAIRS, AND RAMPS. SEE STRUCTURAL PLANS FOR MORE INFORMATION.
12	PROVIDE GRAVEL PAVEMENT.
13	PROVIDE 2.5" CONDUIT SLEEVE AND HAND HOLES FOR FUTURE FIBER OPTIC LINE.
14	RESTORE AREA WITH TOPSOIL, SEED AND MULCH.
15	EXCAVATE FLOOD PLAIN MITIGATION AREA.

GENERAL NOTES:

1. IT IS THE CONTRACTORS RESPONSIBILITY TO CONFIRM ALL EXISTING CONDITIONS, LOCATIONS AND ELEVATIONS PRIOR TO THE START OF WORK. ANY DISCREPANCIES TO BE DETERMINED AND THE ENGINEER TO BE NOTIFIED.

1 / C-200 — **SITE PLAN** — SCALE: 1" = 30'

NORTH

60' 30' 0' 30' 60'

GRAPHIC SCALE: 1"=30'

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Consultants:

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ENDWELL, NY, 13760
607-231-6600

Governor's Office of Storm Recovery

VILLAGE OF OWEGO — Crochet Small Town — 2009

Project Key

REVISIONS

Rev No	Description	Date:

Client
VILLAGE OF OWEGO

Project Title
NEW MUNICIPAL BUILDING
VILLAGE OF OWEGO, NY

Drawing Title
SITE PLAN

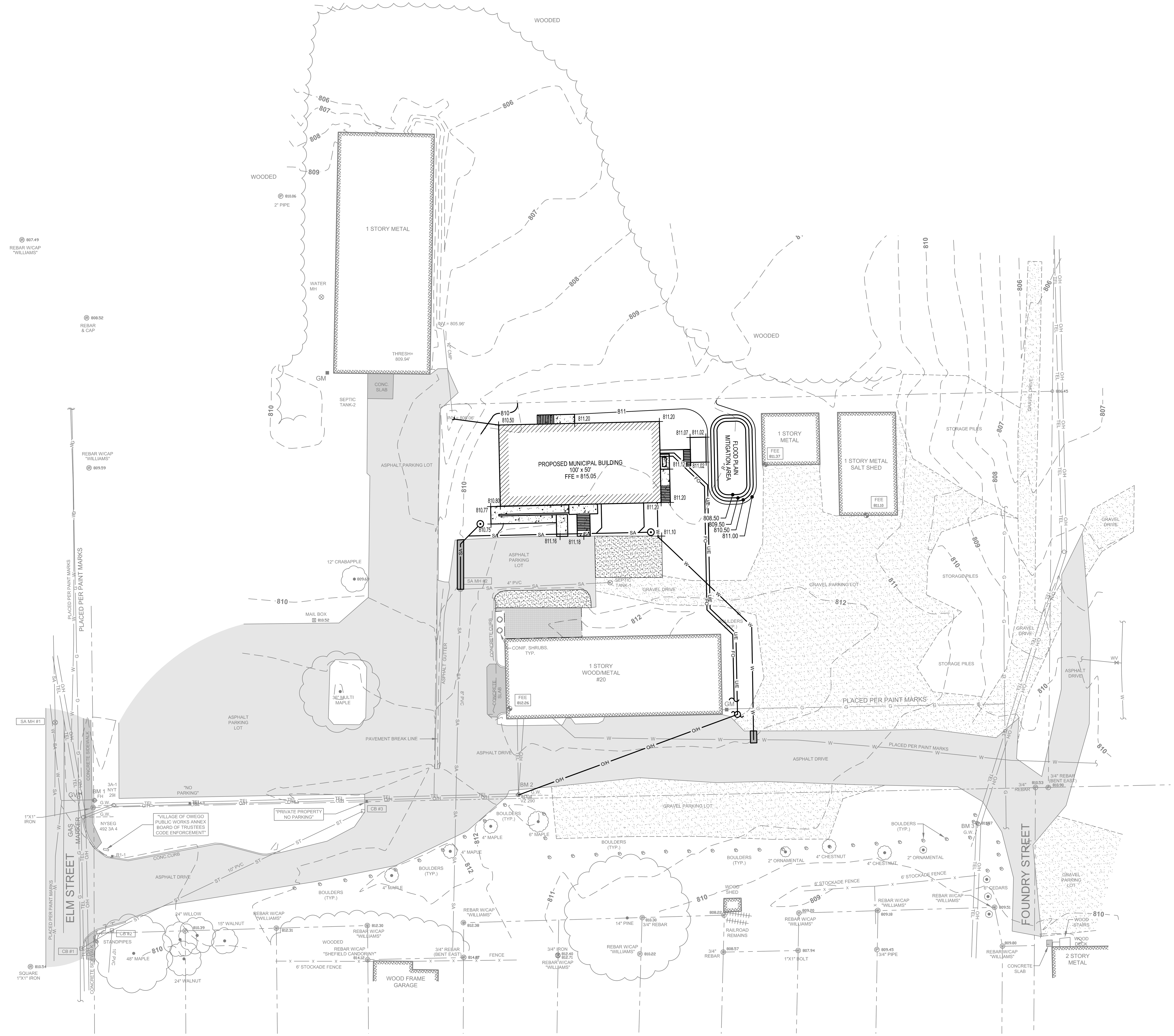
Phase
30% SCHEMATIC

Drawn By:	Checked By:	Date:
RH	CLZ	02/28/2019

Seal & Signature

DASNY Project No: 339920

Drawing Number C-200



1 GRADAING PLAN
C-201
SCALE: 1" = 30'

NORTH

EXISTING LEGEND:

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PROPOSED LEGEND:

ASPHALT PAVEMENT	
CONCRETE	
GRAVEL	
RESTORED LAWN	
UTILITY POLE	
OVERHEAD ELECTRIC	O/H
UNDERGROUND ELECTRIC	U/E
UNDERGROUND WATER	W
UNDERGROUND SANITARY SEWER	SA
SANITARY SEWER CLEANOUT	
UNDERGROUND FIBER OPTIC	FO
MAJOR CONTOUR	810
MINOR CONTOUR	811
SPOT ELEVATION	808.50

GENERAL NOTES:

1. IT IS THE CONTRACTORS RESPONSIBILITY TO CONFIRM ALL EXISTING CONDITIONS, LOCATIONS AND ELEVATIONS PRIOR TO THE START OF WORK. ANY DISCREPANCIES TO BE DETERMINED AND THE ENGINEER TO BE NOTIFIED.
2. ANY SOIL OR OTHER MATERIAL REMOVED FROM THE SITE IS TO BE HAULED OFF SITE AND DISPOSED OF OUTSIDE THE VILLAGE OF OWEGO FLOOD PLAIN LIMITS.

60' 30' 0' 30' 60'

GRAPHIC SCALE: 1"=30'

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Governor's Office of Storm Recovery

VILLAGE OF OWEGO
Coolest Small Town – 2009

Project Key

REVISIONS

Rev No	Description	Date:

Client
VILLAGE OF OWEGO

Project Title
NEW MUNICIPAL BUILDING
VILLAGE OF OWEGO, NY

Drawing Title
GRADING PLAN

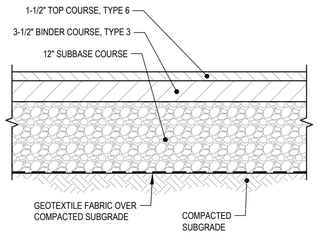
Phase
30% SCHEMATIC

Drawn By:	Checked By:	Date:
RH	CLZ	02/28/2019

Seal & Signature

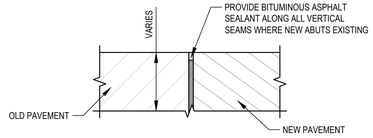
DASNY Project No:
339920

Drawing Number
C-201



1 C-300 STANDARD DUTY ASPHALT PAVEMENT DETAIL

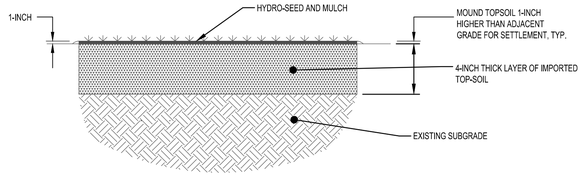
SCALE: NONE



EXPANSION JOINT

2 C-300 ASPHALT JOINT DETAIL

SCALE: NONE

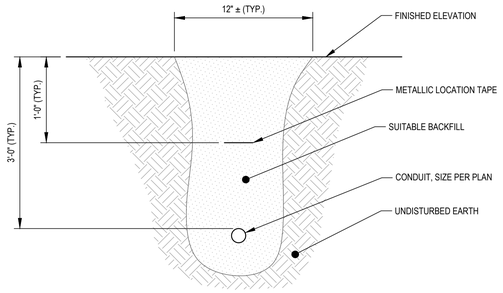


NOTES:

SEE LANDSCAPE DETAILS AND SPECIFICATIONS FOR MORE INFORMATION REGARDING RESTORATION WORK.

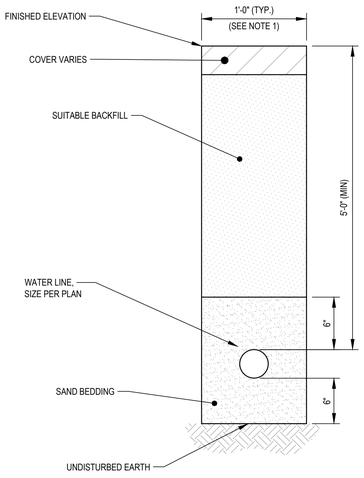
3 C-300 LANDSCAPE RESTORATION DETAIL

SCALE: NONE



4 C-300 DIRECT BURIAL UTILITY DETAIL

SCALE: NONE

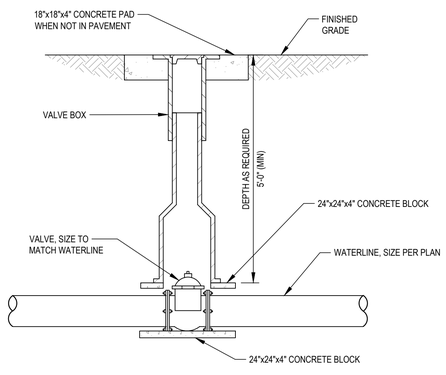


NOTES:

1. TRENCH WIDTH ASSUMES EXCAVATION WITH DITCH-WITCH EQUIPMENT.

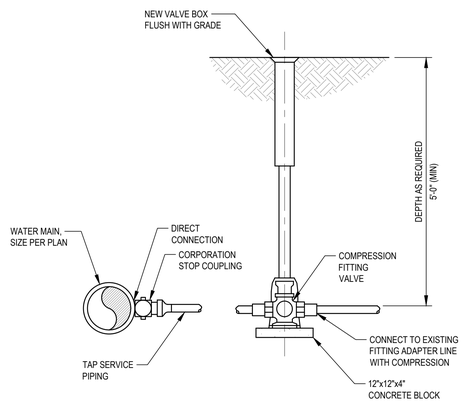
5 C-300 WATER SERVICE TRENCH DETAIL

SCALE: NONE



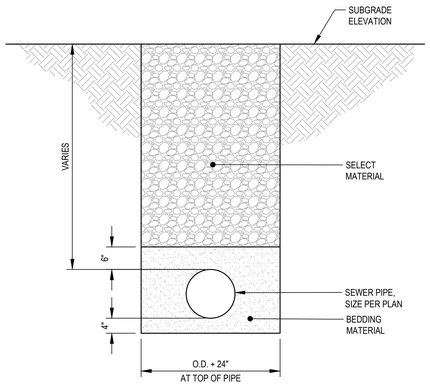
6 C-300 VALVE AND VALVE BOX DETAIL

SCALE: NONE



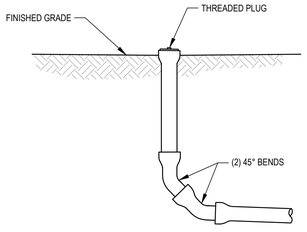
7 C-300 WATER SERVICE CONNECTION DETAIL

SCALE: NONE



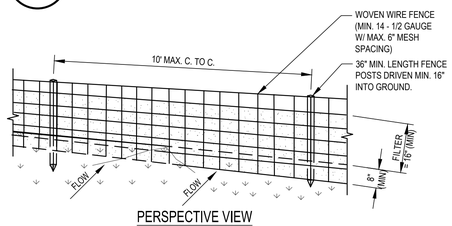
8 C-300 STORM AND SANITARY SEWER TRENCH SECTION DETAIL

SCALE: NONE

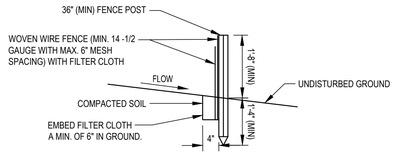


9 C-300 SEWER CLEANOUT DETAIL

SCALE: NONE



PERSPECTIVE VIEW



SECTION VIEW

CONSTRUCTION SPECIFICATIONS:

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 12 -1/2 GAUGE, 6" MAXIMUM MESH OPENING.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.
4. PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE, OR APPROVED EQUIVALENT.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

10 C-300 SILT FENCE DETAIL

SCALE: NONE

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Governor's Office of Storm Recovery

VILLAGE OF OWEGO
Coolest Small Town – 2009

Project Key

REVISIONS

Rev No	Description	Date:

Client

VILLAGE OF OWEGO

Project Title

NEW MUNICIPAL BUILDING

VILLAGE OF OWEGO, NY

Drawing Title

DETAILS

Phase

30% SCHEMATIC

Drawn By:	Checked By:	Date:
RH	CLZ	02/28/2019

Seal & Signature

DASNY Project No: 339920

Drawing Number

C-300

GENERAL NOTES

1. GENERAL
   a. CODE AND STANDARDS APPLICABLE TO THE STRUCTURAL DESIGN:
      - IBC 2015 WITH BUILDING CODE OF NEW YORK STATE (BCNYS) 2017 SUPPLEMENT
      - ASCE 7-10 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES.
      - AISC 360-10 SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS.
      - AISC 303-10 CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES.
      - AISC 341-10 SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS.
      - AISC 318-14 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE.
      - <ACI 530-13 BUILDING CODE REQUIREMENTS AND SPECS FOR MASONRY STRUCTURES.>
      - ANSI/AF&PA SDPWS-2008 SPECIAL DESIGN PROVISIONS FOR WIND AND SEISMIC.
      - AISI S100-12 NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS.
   b. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH OTHER TRADE DRAWINGS OF THIS CONTRACT. THE CONTRACTOR SHALL COORDINATE THE WORK OF OTHER TRADES SUCH AS REQUIREMENTS FOR SLEEVES, INSERTS, HOLES, HANGERS, ANCHORS, ETC.
   c. DISCREPANCIES IN DIMENSIONS BETWEEN DIFFERENT DRAWINGS SHALL BE REPORTED TO THE PROJECT ARCHITECT AND ENGINEER OF RECORD (EOR) PRIOR TO THE BEGINNING OF WORK IN AREAS AFFECTED BY THE DIMENSION(S).
   d. DETAILS TITLED OR NOTED AS "TYPICAL" SHALL APPLY NOT ONLY WHERE THEY'RE SPECIFICALLY INDICATED OR REFERENCED, BUT ALSO IN OTHER CASES WHERE THE NATURE OF THE CONSTRUCTION REQUIRES THEIR USE. APPLICATION OF TYPICAL DETAILS SHALL BE DETERMINED FROM THE DESCRIPTION TITLES OR FROM THE SIMILARITY OF A CONSTRUCTION CONDITION(S) OF THE PROJECT.
   e. THE CONTRACTOR SHALL PROVIDE TEMPORARY BRACING AND SHORING OF THE STRUCTURE AND COMPONENTS AS NECESSARY UNTIL COMPONENTS ARE ERECTED, AND CONNECTIONS ARE MADE TO ENSURE STABILITY DURING CONSTRUCTION. THE CONTRACTOR SHALL BRACE WALLS DURING CONSTRUCTION AGAINST WIND AND/OR CONSTRUCTION LOADS.
   f. CONSTRUCTION SAFETY MEASURES, MEANS AND METHODS, AND THE COMPLIANCE WITH OSHA LAWS AND REGULATIONS IS THE RESPONSIBILITY OF THE CONTRACTOR .
   g. THE PROJECT SHALL BE CONSTRUCTED FROM APPROVED SUBMITTALS. SUBMITTALS INCLUDE, BUT ARE NOT LIMITED TO: DATA SHEETS, MIX DESIGNS, CUT SHEETS, SHOP DRAWINGS, ETC. DELIVER SUBMITTALS TO THE ARCHITECT/ENGINEER OF RECORD (EOR) FOR REVIEW AND/OR APPROVAL. REPRODUCTION OF THE CONTRACT DRAWINGS SHALL NOT BE USED OR SUBMITTED IN THE SUBMITTAL.

2. LOADS USED IN DESIGN
   a. ROOF DEAD = 23 PSF
   b. ROOF LIVE = 20 PSF (MIN)
   c. FIRST FLOOR DEAD = 81 PSF
   d. MECHANICAL SPACE DEAD = 66 PSF
   e. FLOOR LIVE LOADS: LIGHT STORAGE = 125 PSF; STAIRS, CORRIDORS AND MECHANICAL ROOMS = 100 PSF; OFFICE AREAS = 50 PSF + 15 PSF PARTITION LOAD
   f. SNOW:
      GROUND SNOW LOAD, (Pg) = 40 PSF
      BALANCED-ROOF SNOW LOAD, (Pf) 28 = PSF
      SNOW EXPOSURE FACTOR, (Ce) = 1.0
      SNOW IMPORTANCE FACTOR, (Is) = 1.0
      THERMAL FACTOR, (Ct) = 1.0
      DESIGN FOR UNBALANCED SNOW AND DRIFT LOADS PER CODE.
   g. SEISMIC:
      RISK CATEGORY II; IMPORTANCE FACTOR, (Ie) = 1.0
      SEISMIC DESIGN CATEGORY B; SITE CLASS D
      ANALYSIS PROCEDURE - EQUIVALENT LATERAL FORCE PROCEDURE (1617.4)
      BASIC SEISMIC-FORCE-RESISTING SYSTEM - BUILDING FRAME SYSTEM: ORDINARY CONCENTRICALLY BRACED STEEL FRAME.
      SPECTRAL RESPONSE COEFF - SDS=0.132; SD1=0.089
      DESIGN BASE SHEAR = 40.8 KIPS
   h. WIND:
      BASIC WIND SPEED (3-SECOND GUST) = 115 MPH
      WIND EXPOSURE B
      INTERNAL PRESSURE COEFFICIENT - +0.18 & -0.18
      COMPONENTS AND CLADDING DESIGN WIND PRESSURE PER ASCE 7-10 EQ. 30.4-1: (BASED ON EFFECTIVE WIND AREA OF 10 SF)
      ZONE 1: 14.9 PSF INWARD, 23.6 PSF OUTWARD
      ZONE 2: 14.9 PSF INWARD, 41.1 PSF OUTWARD
      ZONE 3: 14.9 PSF INWARD, 60.8 PSF OUTWARD
      ZONE 4: 25.8 PSF INWARD, 28.0 PSF OUTWARD
      ZONE 5: 25.8 PSF INWARD, 34.6 PSF OUTWARD

3. SOILS INFORMATION
   a. ALLOWABLE SOIL BEARING PRESSURE USED IN DESIGN = 2500 PSF.
   b. A FACTOR FOR THE COEFFICIENT OF FRICTION USED IN DESIGN IS 0.3 TO RESIST SLIDING.
   c. THIS CRITERIA WAS SET FORTH IN A SUBSURFACE INVESTIGATION AND GOETECHNICAL EVALUATION PREPARED BY ATLANTIC TESTING LABORATORIES DATED OCTOBER 29, 2018. ATL REPORT # CD4498E-01-10-18.
   d. PROOF ROLLING OF BUILDING SITE SITE WILL BE DONE PER RECOMMENDATIONS IN "SUBSURFACE INVESTIGATION AND GOETECHNICAL EVALUATION" AND AS DIRECTED BY OWNER'S REPERSENTATIVE GEOTECHNICAL ENGINEER.
   e. THE FOUNDATION SYSTEM SHALL CONSIST OF CONVENTIONAL SPREAD FOOTING SUPPORTING REINFORCED GRADE BEAM/STEM WALLS, RESTRAINED RETAINING WALLS AND CANTILEVERED RETAINING WALLS.
   f. CARE MUST BE TAKEN IN PREPARING THE SUBGRADE AND PROTECTING THE SUBGRADE FROM DISTURBANCE DURING THE COURSE OF SETTING THE FORMS, REINFORCING ETC.
   g. FOOTINGS SHALL BEAR ON UNDISTURBED VIRGIN SOIL AND ANY AREA OF FILL ENCOUNTERED SHALL BE REMOVED AND REPLACED WITH IMPORTED GRANULAR STRUCTURAL FILL COMPACTED TO 95% AS TESTED BY THE MODIFIED PROCTOR TEST METHOD (ASTM D-1557). ALL FOOTING BEARINGS TO BE INSPECTED BY OWNER'S REPESENTATIVE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF FOOTING.
   h. IMPORTED GRANULAR STRUCTURAL FILL SHALL ALSO BE PLACED IN AREAS WHERE REMOVAL OF DRYWELLS, STORM DRAINS, WASTE LINES, WATER LINES, STRUCTURES, FOUNDATIONS, ETC. ARE REQUIRED PER THIS CONTRACT.
   i. A REPRESENTATIVE OF THE SOILS ENGINEER SHALL BE PRESENT TO OBSERVE AREAS INCLUDING, BUT NOT LIMITED TO, PROOF ROLLING OF BUILDING SITE, SOIL SUPPORTING FOOTINGS PRIOR TO POURING OF CONCRETE, AND WHERE FILL OR OTHER OBJECTS HAVE BEEN REMOVED IN DETERMINING SUITABLE CONDITIONS.
   j. <A CONTINUOUS PERIMETER DRAIN SHALL BE INSTALLED ALONG OUTER EDGE OF THE FOOTING WHERE INTERIOR SPACE OCCURS BELOW GRADE. INVERT ELEVATION OF DRAIN SHALL BE NO HIGHER THAN THE TOP OF THE FOOTING AT ANY LOCATION. SLOPE DRAIN AT 1/2 PERCENT GRADE (MINIMUM) TO 1 PERCENT GRADE. PERIMETER DRAIN SHALL BE COORDINATED TO TIE INTO STORM DRAIN, SITE DRY WELL, OR DAYLIGHTED AS INDICATED ON <STRUCTURAL/SITE/PLUMBING> DRAWING.>
   k. TESTING OF COMPACTION OF STRUCTURAL FILL AND BACKFILLS SHALL BE IN ACCORDANCE WITH SECTION BC1705.6 "SOILS" OF THE BCNYS 2017.

4. CAST-IN-PLACE CONCRETE
   a. MINIMUM ULTIMATE COMPRESSIVE STRENGTH, F'c = F'c = 3,500 PSI AT 28 DAYS FOR ALL INTERIOR CONCRETE AND 4,000 PSI AT 28 DAYS FOR ALL EXTERIOR CONCRETE.
   b. TYPE I / II CEMENT MAY BE USED FOR ALL CONCRETE.
   c. ALL EXTERIOR CONCRETE SHALL BE AIR ENTRAINED.
   d. ALL ADDITIVES SHALL NOT BE USED WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER.
   e. PROVIDE VERTICAL 2X KEY HAVING A WIDTH EQUAL TO ONE-HALF OF WALL THICKNESS (MINIMUM 4") AT CONSTRUCTION JOINTS IN FOUNDATION.
   f. BACKFILL SHALL BE PLACED AGAINST BOTH SIDES OF STEM WALLS SIMULTANEOUSLY WHERE APPLICABLE.
   g. BACKFILL SHALL NOT BE PLACED AGAINST BASEMENT WALLS UNTIL UPPER AND LOWER SUPPORTS OF THE BASEMENT WALL ARE IN PLACE AND SECURED. SUPPORTS ARE DEFINED AS FLOORS, GIRTS, SLAB-ON-GRADE OR AS NOTED ON DRAWINGS.
   h. TESTING OF CONCRETE SHALL BE IN ACCORDANCE WITH SECTION BC1903 OF THE BCNYS 2017 AND ACI 318 CHAPTER 26.

5. REINFORCING
   a. ALL REINFORCING FOR CAST-IN-PLACE/SITE CONCRETE SHALL BE ASTM A615 BILLET BARS, GRADE 60.
   b. LAP REINFORCING BARS AT SPLICES IN CONCRETE PER ACI 318.
   c. ALL REINFORCING WHICH REQUIRES WELDING SHALL BE ASTM A706 LOW-ALLOY STEEL DEFORMED BARS, GRADE 60.
   d. WHEN REINFORCING IS NOT ASTM A706 AND IT IS TO BE WELDED, THE CERTIFIED WELDER SHALL SUBMIT A WELDING PROCEDURE MEETING AWS REQUIREMENTS TO THE ENGINEER OF RECORD (EOR).
   e. PROVIDE CORNER BARS TO MATCH ALL CONTINUOUS HORIZONTAL REINFORCING IN CONCRETE.
   f. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
   g. LAP WELDED WIRE FABRIC ON FULL MESH PLUS 2" AT SPLICES AND SECURELY WIRE TOGETHER.
   h. DETAIL REINFORCING IN ACCORDANCE WITH THE ACI DETAILING MANUAL.
   i. WHEN REQUIRED, PROVIDE SPECIAL INSPECTION OF IN PLACE REINFORCING IN ACCORDANCE WITH SECTION BC1705.3 "CONCRETE CONSTRUCTION" OF THE BCNYS 2017.

6. STRUCTURAL STEEL
   a. STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATIONS AND CODE OF STANDARD PRACTICE.
   b. STRUCTURAL STEEL, CHANNEL AND WIDE FLANGE SECTIONS (W) SHALL BE ASTM A992, Fy=50 KSI.
   c. STRUCTURAL STEEL, ANGLES AND PLATES SHALL BE ASTM A36, Fy=36 KSI.
   d. STRUCTURAL TUBING (HSS) SHALL BE ASTM A500, GRADE B, Fy=46 KSI-RECTANGULAR, Fy=42 KSI-ROUND.
   e. STEEL PIPE SHALL BE ASTM A53, TYPE E OR S, GRADE B, Fy=35 KSI.
   f. HIGH STRENGTH BOLTS SHALL BE ASTM A325N.
   g. BOLTS SHALL BE 3/4" UNLESS NOTED OTHERWISE.
   h. PROVIDE HARDENED WASHERS UNDER NUT OR BOLT HEAD WHERE SLOTTED HOLES OCCUR IN EXPOSED PLY.
   i. ALL WELDING SHALL BE DONE BY CERTIFIED WELDERS AND SHALL CONFORM TO THE A.W.S. CODE FOR ARC AND GAS WELDING IN BUILDING CONSTRUCTION. LATEST EDITION.
   j. CONNECTIONS NOT DETAILED SHALL BE IN ACCORDANCE WITH PARTS 7 THROUGH 10 OF THE AISC MANUAL OF STEEL CONSTRUCTION, 14TH EDITION.
   k. PROVIDE 1/2" CAP PLATE WITH (4)-3/4" DIAMETER BOLTS AT ALL COLUMN TO BEAM CONNECTIONS, UNLESS NOTED OTHERWISE.

7. COMPOSITE STEEL FORM DECK
   a. PERMANENT RIBBED COMPOSITE FORM DECK SHALL BE 2" DEEP, 20 GAUGE. (I=0.___IN4/FT., Sp=0.___IN3/FT. Sn=0.___ IN3/FT.) WITH GALVANIZED COATING CONFORMING TO ASTM A525 <G-90>.
   b. DECK SHALL BE MANUFACTURED AND ERECTED IN ACCORDANCE WITH STEEL DECK INSTITUTE SPECIFICATIONS AND CODE OF STANDARD PRACTICE.
   c. DECK WHICH IS NOT CONTINUOUS OVER TWO OR MORE SPANS SHALL BE SHORED PRIOR TO PLACING CONCRETE (FOR SPANS GREATER THAN '-'-").
   d. DECK RIBS PARALLEL TO BEAMS SHALL BE PLACED WITH RIB DIRECTLY OVER CENTERLINE OF BEAM OR LEAVE A _" GAP IN DECK OVER BEAM.

8. COLD FORM METAL FRAMING
   a. STUDS REFERENCED ON DRAWINGS ARE BASED ON MINIMUM SIZE AND SECTION PROPERTIES AS FOLLOWS: '-"___ GA, (FLANGE) STUD, (X=0.___IN4, SX=0.___IN3.
   b. STUDS NOT REFERENCED ON DRAWINGS SHALL BE A MINIMUM 18 GAUGE WITH STRUCTURAL WIDE FLANGE UNLESS NOTED OTHERWISE.
   c. 16 GAUGE STUDS AND HEAVIER SHALL BE FABRICATED FROM COLD FORMED STEEL CONFORMING TO ASTM A607 GRADE 50 WITH A MINIMUM YIELD STRESS OF 50,000 PSI.
   d. 18 GAUGE STUDS AND LIGHTER SHALL BE FABRICATED FROM COLD FORMED STEEL CONFORMING TO ASTM A611 GRADE C WITH A MINIMUM YIELD STRESS OF 33,000 PSI.
   e. ALL MATERIAL SHALL HAVE A FACTORY-APPLIED COAT OF RUST-INHIBITIVE PAINT OR BE GALVANIZED.
   f. STRUCTURAL STEEL FRAMING COMPONENTS SHALL BE CUT SQUARELY OR AS REQUIRED TO FIT NEATLY AGAINST BUTTING MEMBERS.
   g. MEMBERS SHALL BE HELD FIRMLY IN PLACE UNTIL PROPERLY FASTENED.
   h. JOINING OF MEMBERS SHALL BE DONE BY FILLET, PLUG, BUTT OR SEAM WELDING, OR SELF TAPPING SCREWS UNLESS SPECIFIED OTHERWISE.
   i. DISSIMILAR STRUCTURAL COMPONENTS SHALL BE ATTACHED BY WELDING, SCREWS, OR BOLTING.
   j. WIRE TYING OF STRUCTURAL STEEL FRAMING SHALL NOT BE PERMITTED.
   k. STUDS SHALL BE SEATED SQUARELY IN THE TRACKS WITH THE STUD WEB AND FLANGES ABUTTING THE TRACK WEB AND SHALL BE SECURELY ATTACHED BY WELDING, SCREWING, OR BOLTING.
   l. STUDS AND TRACKS SHALL BE SECURELY ANCHORED TO SUPPORTING MEMBERS AS INDICATED IN SECTIONS ON DRAWING.
   m. THE TRACK SHALL BE BUTT WELDED OR BE JOINED UTILIZING SPLICE PLATES AS REQUIRED.
   n. STUDS SHALL BE ONE PIECE FOR THEIR FULL LENGTH AND NO SPLICES SHALL BE PERMITTED.
   o. BRIDGING FOR STUDS SHALL NOT EXCEED A SPACING OF 5'-0".
   p. <SHOP DRAWINGS SHALL BE SUBMITTED SHOWING LOCATION, GAUGE AND SPACING FOR ALL STUDS.>

9. COLD FORM METAL FRAMING (TRUSSES)
   a. COMPLY WITH SECTION BC2303.4 "TRUSSES" OF THE IBC 2015/BCNYS <2017>.
   b. FRAME ROOFS AND FLOORS WITH CFMF TRUSSES UNLESS INDICATED OTHERWISE ON THE DRAWINGS.
   c. WHERE PERMANENT RESTRAINT OF TRUSS MEMBERS IS REQUIRED ON THE TRUSS DESIGN DRAWINGS, IT SHALL BE ACCOMPLISHED BY ONE OF THE FOLLOWING METHODS:
      - PERMANENT INDIVIDUAL TRUSS MEMBER RESTRAINT/BRACING SHALL BE INSTALLED USING STANDARD INDUSTRY LATERAL RESTRAINT/BRACING DETAILS IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRACTICE. LOCATIONS FOR LATERAL RESTRAINT SHALL BE IDENTIFIED ON THE TRUSS DESIGN DRAWING.
      - THE TRUSSES SHALL BE DESIGNED SO THAT THE BUCKLING OF ANY INDIVIDUAL TRUSS MEMBER IS RESISTED INTERNALLY BY THE INDIVIDUAL TRUSS THROUGH SUITABLE MEANS. THE BUCKLING REINFORCEMENT OF INDIVIDUAL MEMBERS OF THE TRUSSES SHALL BE INSTALLED AS SHOWN ON THE TRUSS DESIGN DRAWINGS OR ON SUPPLEMENTAL TRUSS MEMBER BUCKLING REINFORCEMENT DETAILS PROVIDED BY THE TRUSS DESIGNER.
      - A PROJECT-SPECIFIED PERMANENT INDIVIDUAL TRUSS MEMBER RETRAINT/BRACING DESIGN SHALL BE PERMITTED TO BE SPECIFIED BY ANY REGISTERED DESIGN PROFESSIONAL.
   d. TRUSS MEMBERS AND COMPONENTS SHALL NOT BE CUT, NOTCHED, DRILLED, SPLICED OR OTHERWISE ALTERED IN ANY WAY WITHOUT WRITTEN CONCURRENCE AND APPROVAL OF THE TRUSS MANUFACTURER/DESIGNER AND THE ENGINEER OF RECORD (EOR). ALTERATIONS RESULTING IN THE ADDITION OF LOADS TO ANY MEMBER (E.G., HVAC EQUIPMENT, PIPING, AND ADDITIONAL ROOFING OR INSULATION, ETC.) SHALL NOT BE PERMITTED WITHOUT VERIFICATION THAT THE TRUSS CAN SUPPORT SUCH ADDITIONAL LOADING.
   e. PROVIDE A SUBMITTAL PACKAGE CONFORMING TO SECTION BC2303.4.1 "DESIGN", INCLUSIVE OF SECTIONS BC2303.4.1.1 THROUGH BC2303.4.1.4 AND SECTIONS BC2303.4.2 THROUGH BC2303.4.4.

TYPICAL SPREAD FOOTING REINFORCEMENT SCHEDULE (2500 PSF BEARING PRESSURE)

FTG MARK	FOOTING SIZE	THICKNESS	MAT BARS EACH WAY	
			QUANTITY OF BARS	BAR SIZE
F3	3'-0" x 3'-0"	12"	4	#4
F3A	3'-0" x 3'-0"	16"	4	#4
F3.5	3'-6" x 3'-6"	12"	4	#5
F3.5A	3'-6" x 3'-6"	16"	4	#5
F4	4'-0" x 4'-0"	12"	6	#4
F4A	4'-0" x 4'-0"	16"	6	#4
F4.5	4'-6" x 4'-6"	12"	7	#4
F4.5A	4'-6" x 4'-6"	16"	6	#4
F5	5'-0" x 5'-0"	14"	5	#5
F5A	5'-0" x 5'-0"	16"	5	#5
F5.5	5'-6" x 5'-6"	15"	6	#5
F5.5A	5'-6" x 5'-6"	16"	6	#5
F6	6'-0" x 6'-0"	16"	6	#6
F6.5	6'-6" x 6'-6"	18"	6	#6
F7	7'-0" x 7'-0"	19"	7	#6
F7.5	7'-6" x 7'-6"	20"	6	#7
F8	8'-0" x 8'-0"	22"	9	#6
F8.5	8'-6" x 8'-6"	23"	10	#6
F9	9'-0" x 9'-0"	25"	11	#6
F9.5	9'-6" x 9'-6"	26"	7	#8
F10	10'-0" x 10'-0"	27"	8	#8

STRUCTURAL ABBREVIATIONS

&	AND	IN	INCH
+/-	PLUS OR MINUS	INT	INTERIOR
@	AT A RATE OF	INV	INVERT
AB	ANCHOR BOLT	JST	JOIST
ACI	AMERICAN CONCRETE INSTITUTE	JT	JOINT
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	K	KIP (1000 LBS)
AISI	AMERICAN IRON AND STEEL INSTITUTE	KSI	KIPS PER SQUARE INCH
APPROX	APPROXIMATELY	L	ANGLE
ARCH	ARCHITECT / ARCHITECTURAL	LLH	LONG LEG HORIZONTAL
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS	LLV	LONG LEG VERTICAL
ASD	ALLOWABLE STRESS DESIGN	LONGL	LONGITUDINAL
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	LP	LOW POINT
AWS	AMERICAN WELDING SOCIETY	LRFD	LOAD AND RESISTANCE FACTOR DESIGN
BLDG	BUILDING	LW	LIGHT WEIGHT
BLK	BLOCK	MANUF	MANUFACTURER
BM	BEAM	MAS	MASONRY
BOF	BOTTOM OF FOOTING	MAX	MAXIMUM
BOT	BOTTOM	MEP	MECHANICAL, ELECTRICAL, AND PLUMBING
BRG	BEARING	MIN	MINIMUM
BS	BOTH SIDES	MTL	METAL
CFMF	COLD FORMED METAL FRAMING	NDS	NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION
CIP	CAST IN PLACE	NF	NEAR FACE
CJ	CONTROL JOINT	NIC	NOT IN CONTRACT
CL	CENTERLINE	NTS	NOT TO SCALE
CLR	CLEAR	OC	ON CENTER
CLSM	CONTROLLED LOW STRENGTH MATERIAL	OD	OUTSIDE DIAMETER
CMU	CONCRETE MASONRY UNIT	OF	OUTSIDE FACE
COL	COLUMN	OPNG	OPENING
CONC	CONCRETE	PC	PILE CAP
CONN(S)	CONNECTION / CONNECTIONS	PCF	POUNDS PER CUBIC FOOT
CONST JT	CONSTRUCTION JOINT	PL	PLATE
CONT	CONTINUOUS	PSF	POUNDS PER SQUARE FOOT
CRSI	CONCRETE REINFORCING STEEL INSTITUTE	PSI	POUNDS PER SQUARE INCH
DEPR	DEPRESSED	PT	POINT
DET	DETAIL	PVC	POLYVINYL CHLORIDE
DIA	DIAMETER	R	RADIUS
DIM	DIMENSION	REINF	REINFORCED / REINFORCING / REINFORCEMENT
DIR	DIRECTION	REQD	REQUIRED
DWG(S)	DRAWING(S)	RET	RETURN
DWL(S)	DOWEL(S)	RETG, RTG	RETAINING
EA	EACH	SC	SHEAR CONNECTOR
EF	EACH FACE	SDI	STEEL DECK INSTITUTE
EIFS	EXTERIOR INSULATION FINISHING SYSTEM	SECT	SECTION
EL	ELEVATION	SF	SQUARE FOOT
ELEV	ELEVATOR	SIM	SIMILAR
EOD	EDGE OF DECK	SL	SPLICE LENGTH
EQ	EQUIVALENT	SOG	SLAB-ON-GRADE
EW	EACH WAY	SPC(S)	SPACED / SPACES
EXIST	EXISTING	SPEC(S)	SPECIFICATION / SPECIFICATIONS
EXP BOLT	EXPANSION BOLT	SQ	SQUARE
EXP JT	EXPANSION JOINT	SS	STAINLESS STEEL
EXT	EXTERIOR	STD	STANDARD
FDN	FOUNDATION	STIFF	STIFFENER
FF	FAR FACE	STL	STEEL
FFE	FINISH FLOOR ELEVATION	STRUCT	STRUCTURAL
FIN	FINISH	SUP	SUPPORT
FL	FLOOR	SYM	SYMMETRIC / SYMMETRICAL
FT	FEET / FOOT	T&B	TOP AND BOTTOM
FTG	FOOTING	TH/THK	THICK OR THICKNESS
GA	GAUGE	THRD	THREADED
GALV	GALVANIZED	TOC	TOP OF CONCRETE
GB	GRADE BEAM	TOF	TOP OF FOOTING
GP	GUSSET PLATE	TOS	TOP OF STEEL
GR	GRADE	TOW	TOP OF WALL
HDG	HOT DIPPED GALVANIZED	TRANS	TRANSVERSE
HEF	HORIZONTAL EACH FACE	TYP	TYPICAL
HGT	HEIGHT	UNO	UNLESS NOTED OTHERWISE
HORIZ	HORIZONTAL	VEF	VERTICAL EACH FACE
HP	HIGH POINT	VERT	VERTICAL
HS	HIGH STRENGTH	VIF	VERIFY IN FIELD
IBC	INTERNATIONAL BUILDING CODE	W/	WITH
ID	INSIDE DIAMETER	W/O	WITHOUT
IE	INVERT ELEVATION	WP	WORKING POINT
IF	INSIDE FACE	WWR	WELDED WIRE REINFORCING

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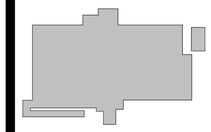
2016.194.013

Governor's Office of Storm Recovery

VILLAGE OF OWEGO
Coolest Small Town – 2009

Project Key



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GENERAL NOTES AND SCHEDULES

Phase

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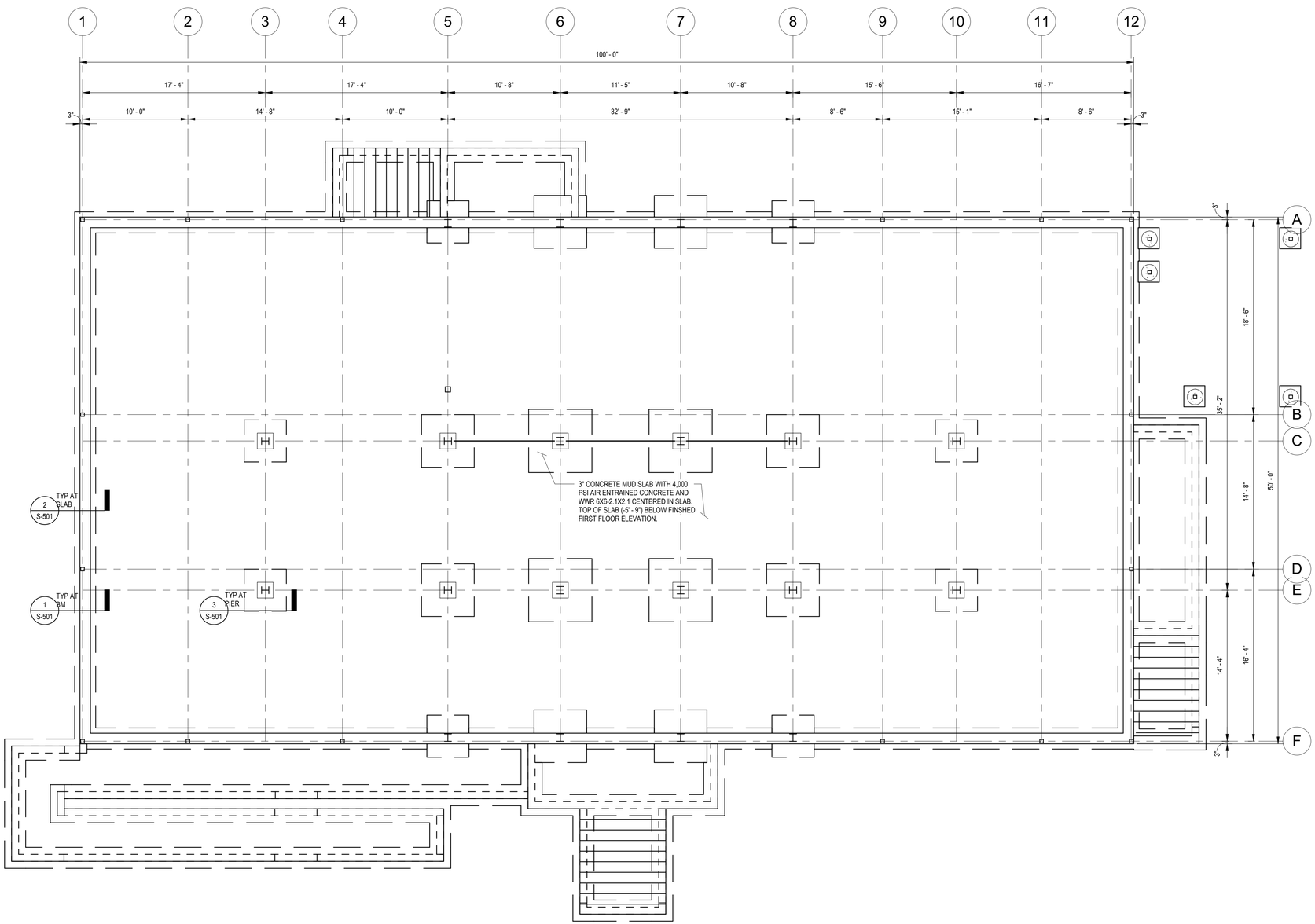
DASNY Project No: 339920

Drawing Number S-001



1 S-101 **FOUNDATION PLAN**

SCALE: 3/16" = 1'-0"

NORTH

0' 1' 2' 4' 8'

SCALE: 1/4" = 1'-0"

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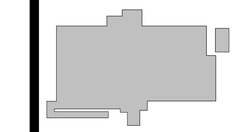

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NEW MUNICIPAL BUILDING

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FOUNDATION PLAN

Phase

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DASNY Project No: 339920

Drawing Number

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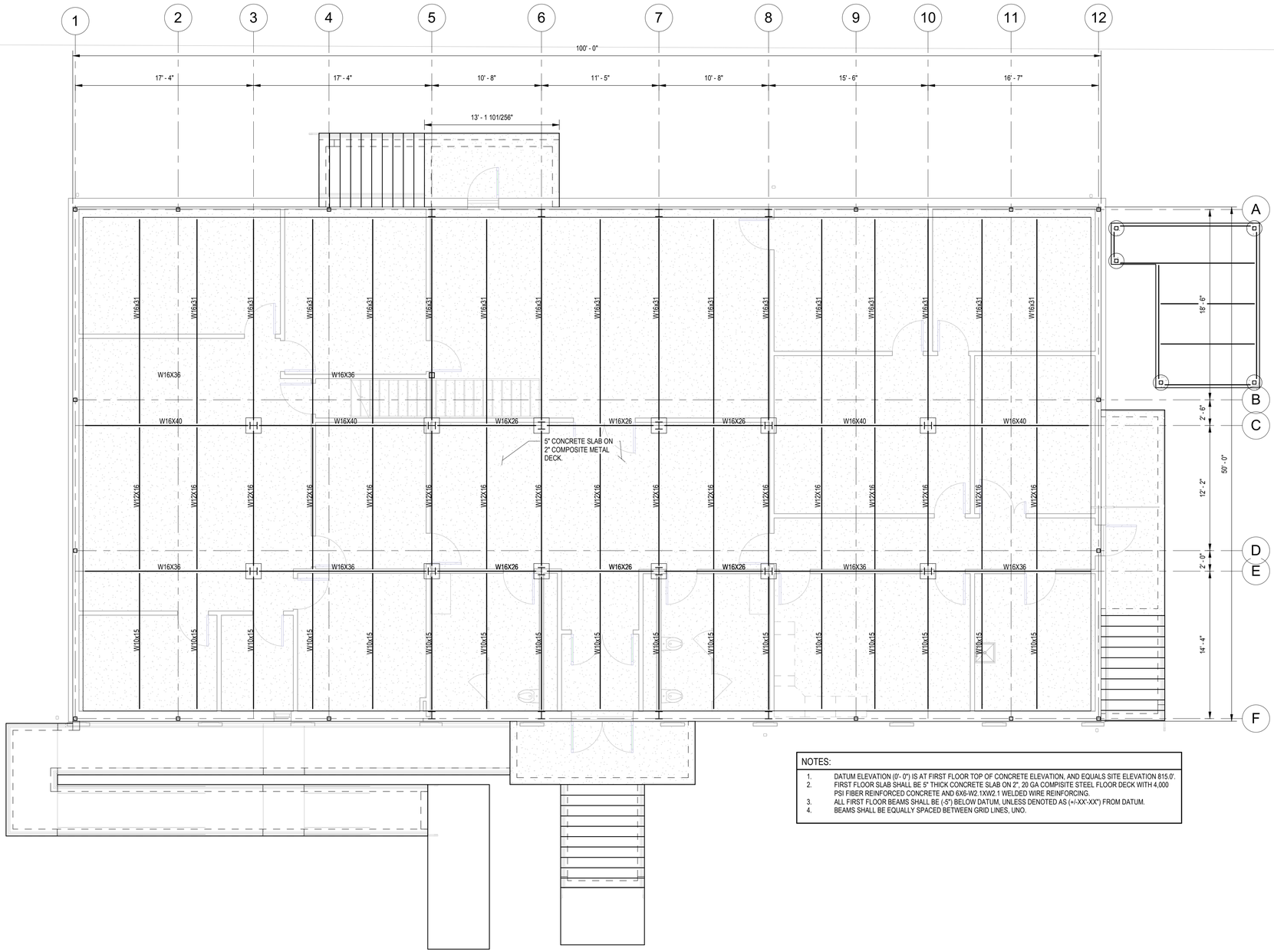

NOTES:

1. DATUM ELEVATION (0'- 0") IS AT FIRST FLOOR TOP OF CONCRETE ELEVATION, AND EQUALS SITE ELEVATION 815.0'.
2. FIRST FLOOR SLAB SHALL BE 5" THICK CONCRETE SLAB ON 2", 20 GA COMPISITE STEEL FLOOR DECK WITH 4,000 PSI FIBER REINFORCED CONCRETE AND 6X6-W2.1XW2.1 WELDED WIRE REINFORCING.
3. ALL FIRST FLOOR BEAMS SHALL BE (-5") BELOW DATUM, UNLESS DENOTED AS (+/-XX'-XX") FROM DATUM.
4. BEAMS SHALL BE EQUALLY SPACED BETWEEN GRID LINES, UNO.

1 / S-102 **MAIN FLOOR FRAMING PLAN**

SCALE: 3/16" = 1'-0"

NORTH

0' 1' 2' 4' 8'

SCALE: 1/4" = 1'-0"

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MAIN FLOOR FRAMING PLAN

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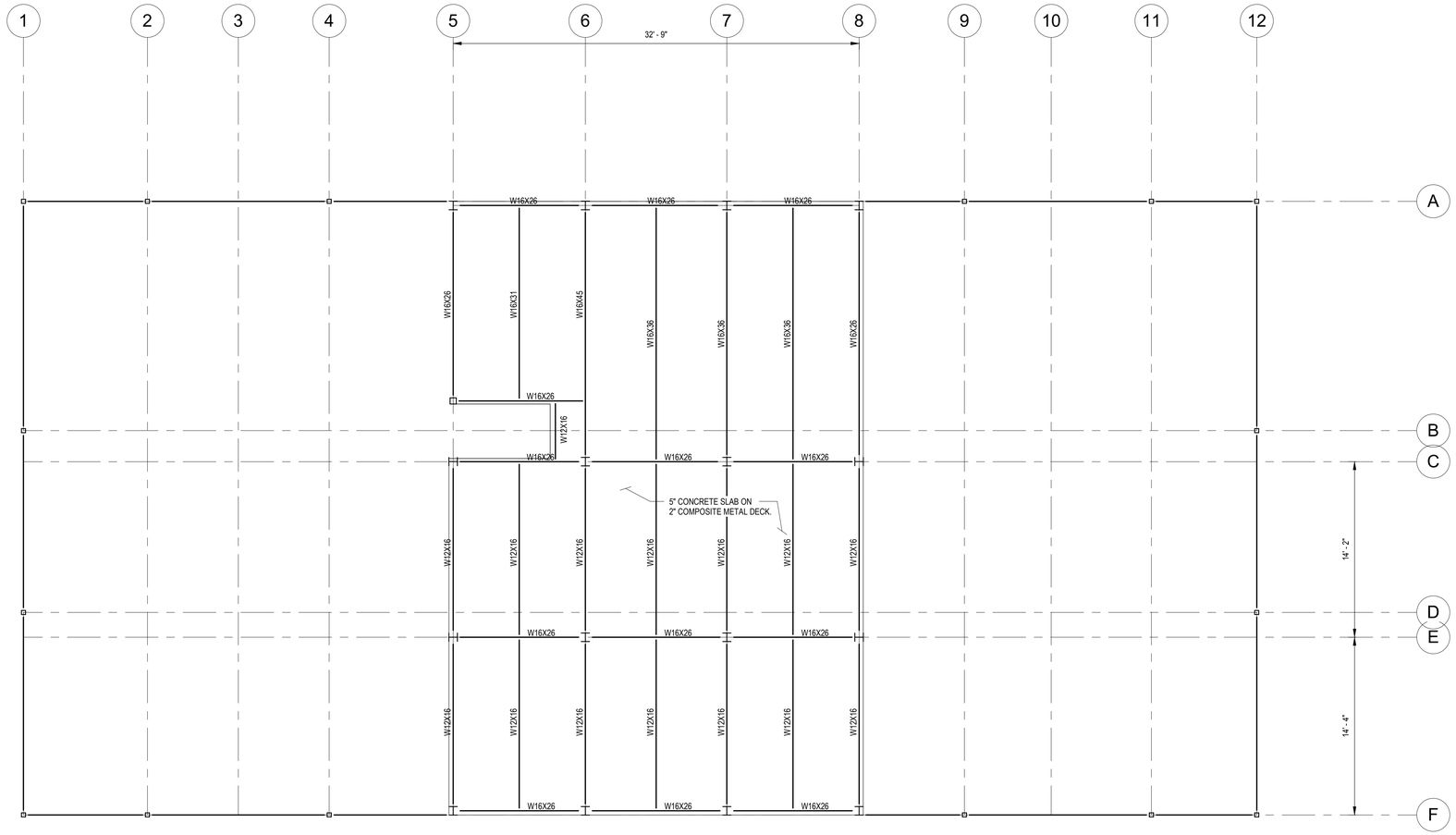

1 / S-103 **2ND FLOOR MECHANICAL SPACE - FRAMING PLAN**

SCALE: 3/16" = 1'-0"

NORTH

0' 1' 2' 4' 8'

SCALE: 1/4" = 1'-0"

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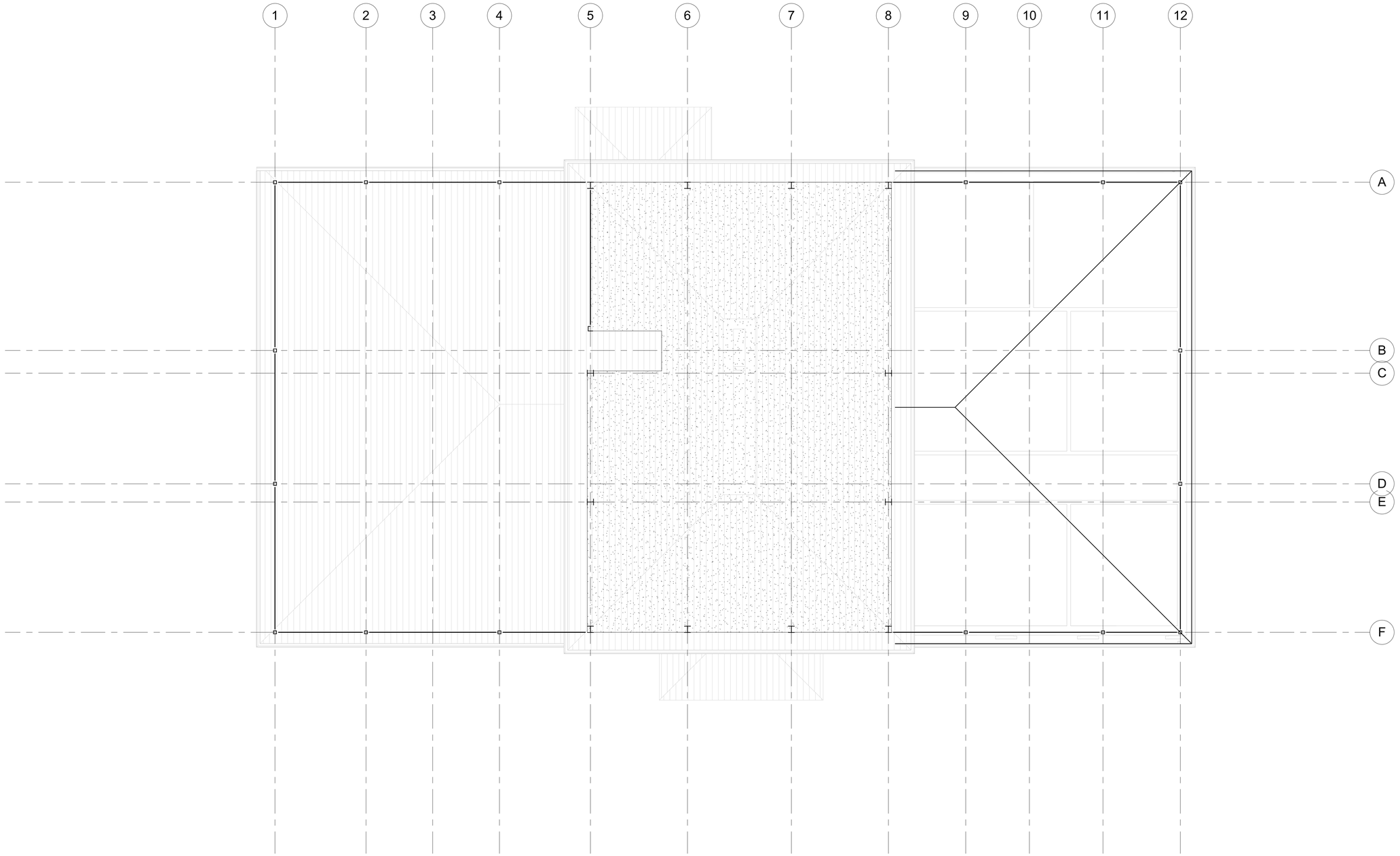

6" INSULATED METAL PANEL
ON CFMF TRUSSES @ 2' - 0" OC

1 / S-104 **ROOF FRAMING**
SCALE: 3/16" = 1'-0"

NORTH

0' 1" 2' 4' 8'
SCALE: 1/4" = 1'-0"

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ROOF FRAMING PLAN

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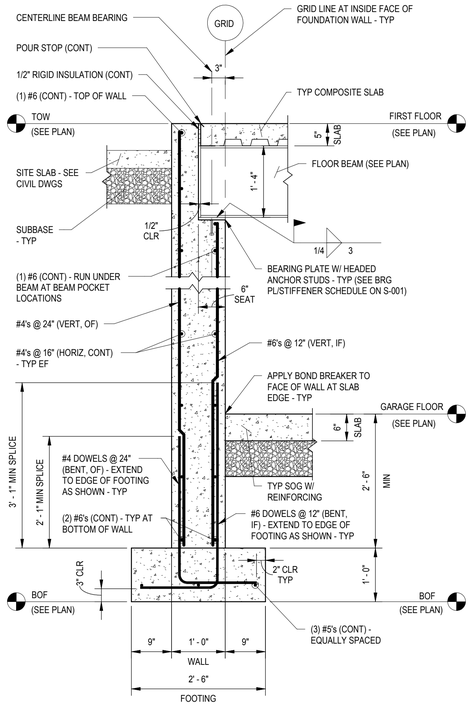
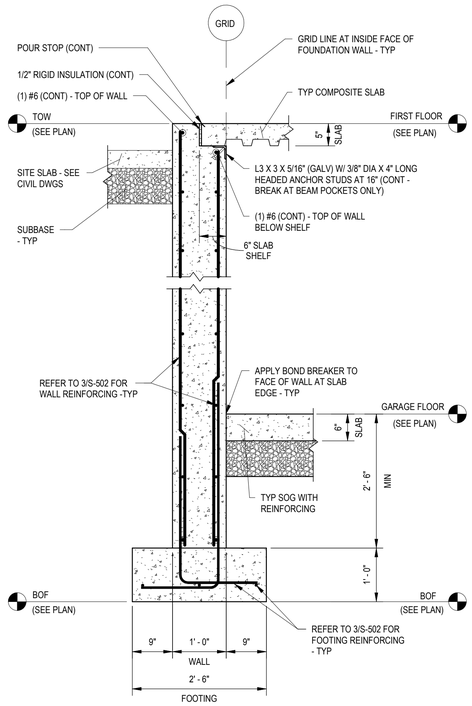


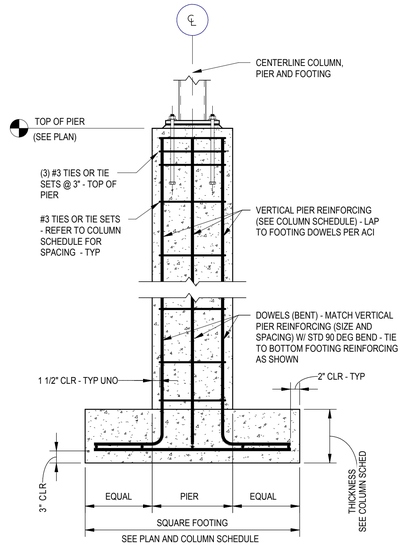
1 S-501 **FOUNDATION WALL AT BEAM SEAT**

SCALE: 3/4" = 1'-0"



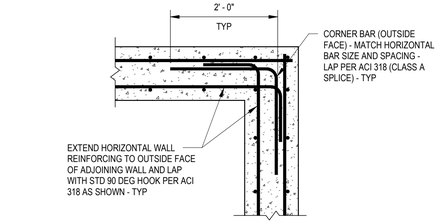
2 S-501 **FOUNDATION WALL AT SLAB SEAT**

SCALE: 3/4" = 1'-0"



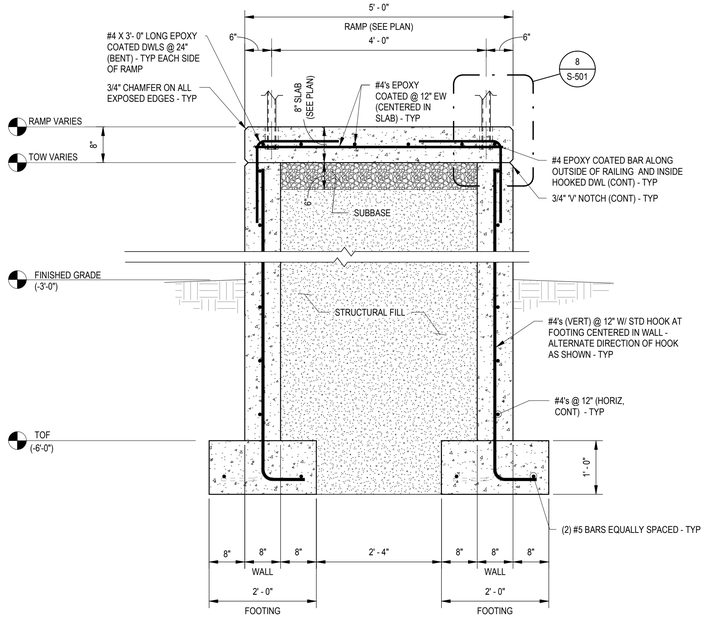
3 S-501 **TYP PIER W/ SPREAD FOOTING**

SCALE: 3/4" = 1'-0"



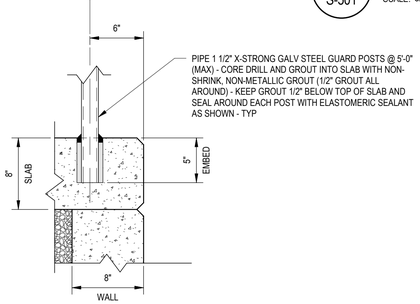
5 S-501 **TYP WALL REINF AT CORNERS**

SCALE: 3/4" = 1'-0"



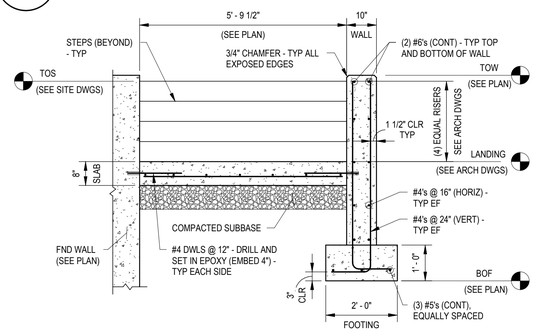
7 S-501 **TYP RAMP SECTION (TRANSVERSE) - PHASE 3**

SCALE: 3/4" = 1'-0"



8 S-501 **RAIL DETAIL**

SCALE: 1 1/2" = 1'-0"

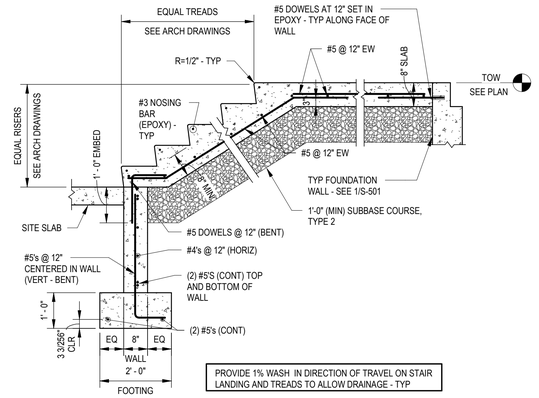


NOTE:

1. ALL REINFORCING ASSOCIATED WITH EXTERIOR STAIR SLAB, INCLUDING WALL DOWELS SHALL BE EPOXY COATED.

4 S-501 **EXTERIOR STAIR DETAIL**

SCALE: 1/2" = 1'-0"



6 S-501 **TYP EXTERIOR STAIR SECTION**

SCALE: 1/2" = 1'-0"

0' 4" 8" 1'-4" 2'-8"

SCALE: 3/4" = 1'-0"

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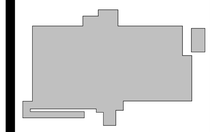

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Project Title

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FOUNDATION DETAILS

Phase

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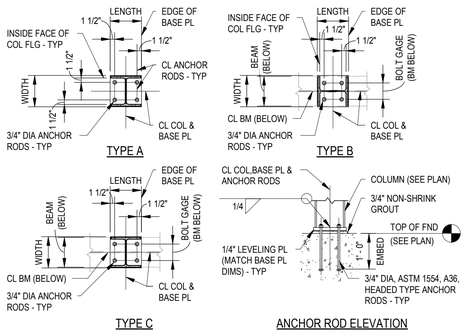
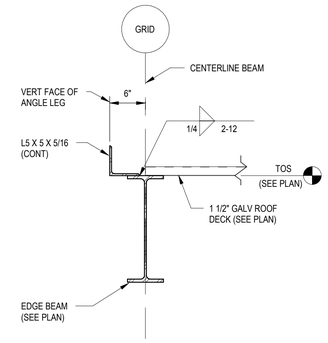


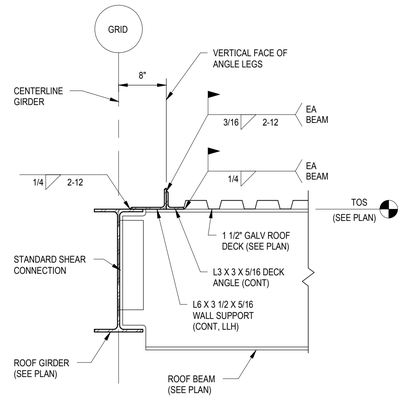
1 S-502 COL BASE PL & ANCHOR RODS

SCALE: 1/2" = 1'-0"



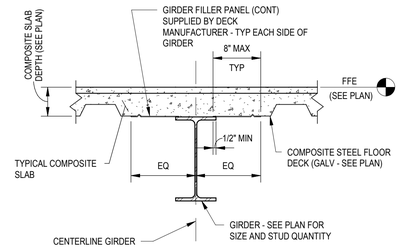
2 S-502 EDGE BEAM AT ROOF

SCALE: 1" = 1'-0"



3 S-502 BEAM DETAIL AT EXT WALL

SCALE: 1" = 1'-0"

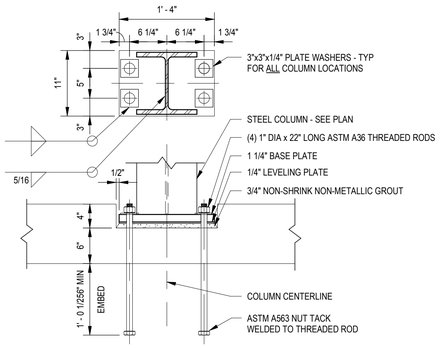


NOTES:

1. WHEN WIDTH OF GIRDER FILLER PANEL EXCEEDS 8", A FULL DECK SHEET NEEDS TO BE CUT IN THE FIELD BY THE ERECTOR.

5 S-502 COMPOSITE SLAB PARALLEL TO BEAM

SCALE: 1" = 1'-0"



4 S-502 COLUMN BEARING DETAIL

SCALE: 1" = 1'-0"

0' 3" 6" 1' 2'

SCALE: 1" = 1'-0"

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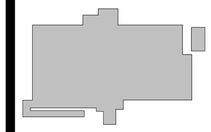

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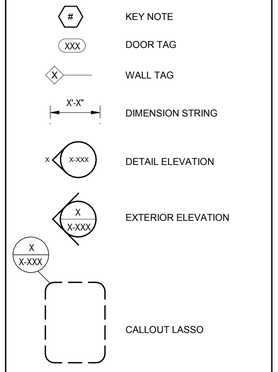
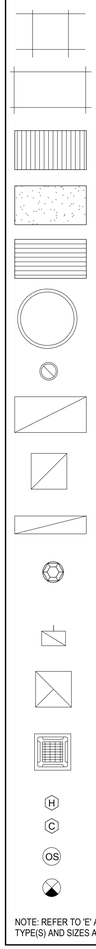
ANNOTATION SYMBOLS LEGEND:

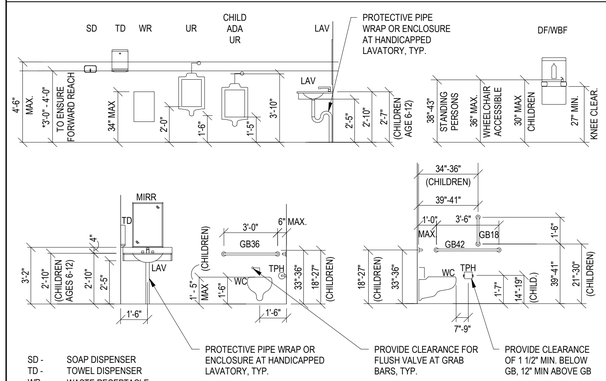


REFLECTED CEILING PLAN LEGEND:



NOTE: REFER TO 'E' AND 'M' DRAWINGS FOR EXACT FIXTURE/EQUIPMENT TYPE(S) AND SIZES AND ADDITIONAL INFORMATION.

TYPICAL MOUNTING HEIGHTS AND LOCATIONS:



SD - SOAP DISPENSER
TD - TOWEL DISPENSER
WR - WASTE RECEPTACLE
UR - URINAL
LAV - LAVATORY
MIRR - MIRROR
WC - WATER CLOSET
GB - GRAB BAR
TPH - TOILET PAPER HOLDER
F.E. - FIRE EXTINGUISHER
DF/WBF - DRINKING FOUNTAIN / WATER BOTTLE FILLER

NOTE: GBX = GRAB BAR; "X" REPRESENTS LENGTH (E.G. GB36 IS A 36" LONG GRAB BAR. GBL3052 IS AN L-SHAPED GRAB BAR 30"x52".)

NOTE: FOR OTHER ACCESSORY ITEMS, SEE MANUFACTURER'S REQUIREMENTS FOR HANDICAPPED MOUNTING HEIGHTS.

NOTE: REFER TO PLUMBING DRAWINGS FOR ACTUAL FIXTURE TYPES. FIXTURES DEPICTED ARE FOR INFORMATIONAL PURPOSES WITH REGARD TO MOUNTING HEIGHTS AND LOCATIONS.

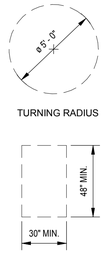
NOTE: REFER TO WASHROOM INTERIOR ELEVATIONS FOR ACCESSORY MOUNTING LOCATIONS IN ROOMS.

NOTE: COORDINATE MOUNTING HEIGHTS OF FIXTURES AND EQUIPMENT WITH SUGGESTED CHILDREN'S REACH RANGES CHART PER ADVISORY 308.1 REACH RANGES FROM THE U.S. ACCESS BOARD FOR ANSI 117.1-2009.

CHILDREN'S REACH RANGES (SUGGESTED)

FORWARD OR SIDE REACH	AGES 3 AND 4	AGES 5 - 8	AGES 9 - 12
HIGH (MAX)	36"	40"	44"
LOW (MIN)	20"	18"	16"

ADA CLEARANCES:



HATCH LEGEND:

- CONCRETE
- GYPSUM WALL BOARD
- MASONRY
- EARTH
- RIGID INSULATION

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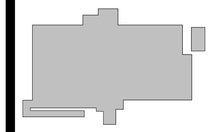

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VILLAGE OF OWEGO

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Drawing Title

LEGENDS, ABBREVIATIONS AND NOTES

Phase

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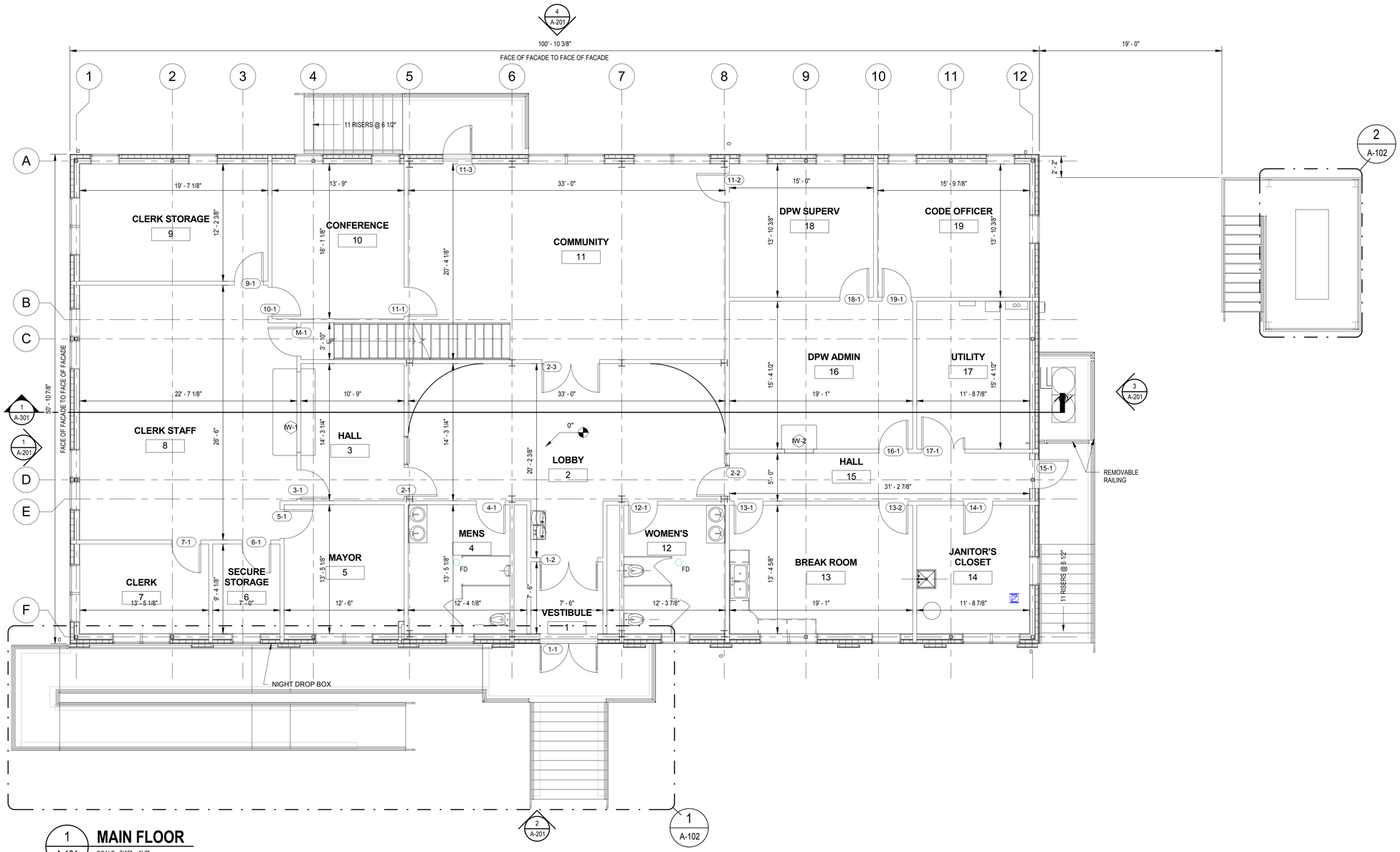
Drawing Number

A-001



1 A-101 **MAIN FLOOR**

SCALE: 3/16" = 1'-0"

NORTH

0' 2'-8" 5'-4" 10'-8"

SCALE: 3/16" = 1'-0"

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Drawing Title

MAIN FLOOR PLAN

Phase

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DASNY Project No: 339920

Drawing Number

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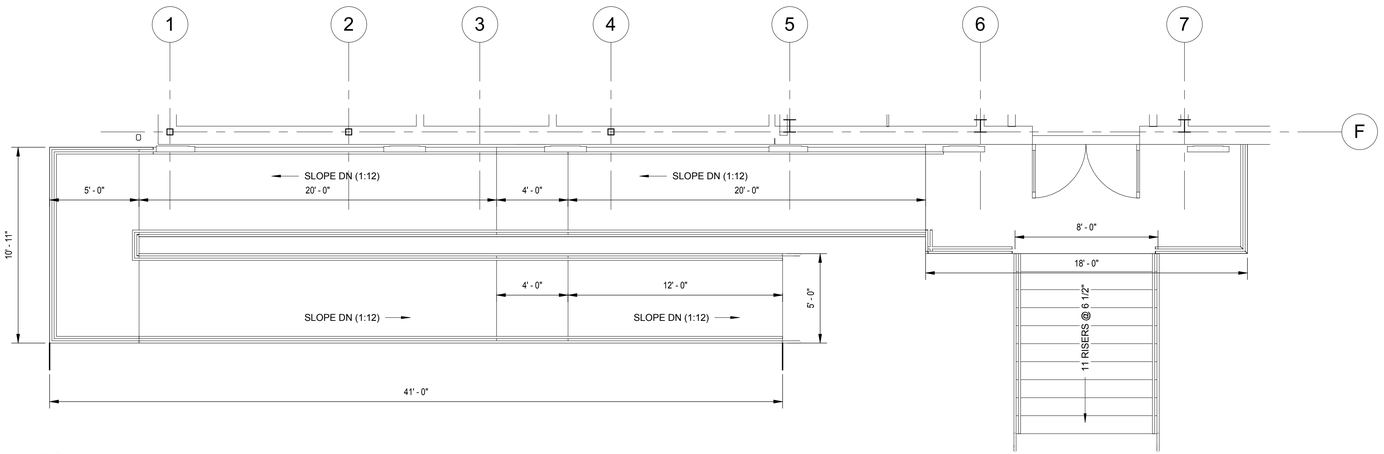
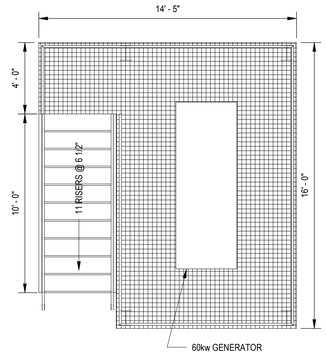


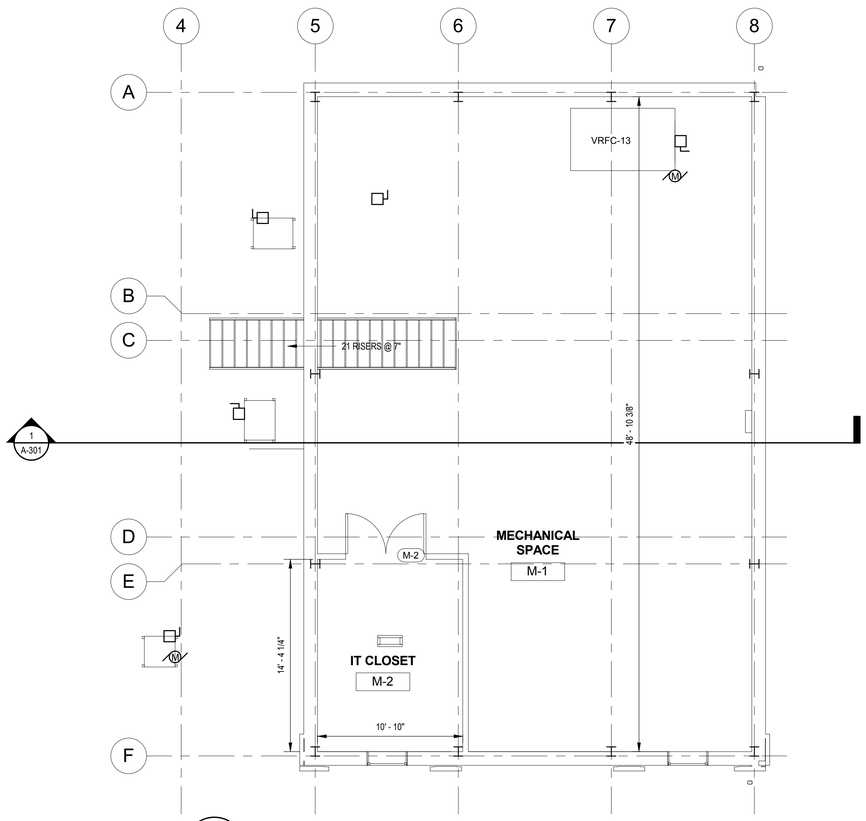
1 / A-102 **PARTIAL PLAN - RAMP**

SCALE: 1/4" = 1'-0"



2 / A-102 **GENERATOR PLATFORM PLAN**

SCALE: 1/4" = 1'-0"



3 / A-102 **MECHANICAL SPACE**

SCALE: 3/16" = 1'-0"

NORTH

0' 1' 2' 4' 8'

SCALE: 1/4" = 1'-0"

0' 2'-8" 5'-4" 10'-8"

SCALE: 3/16" = 1'-0"

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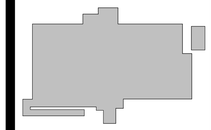

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PARTIAL AND ENLARGED PLANS

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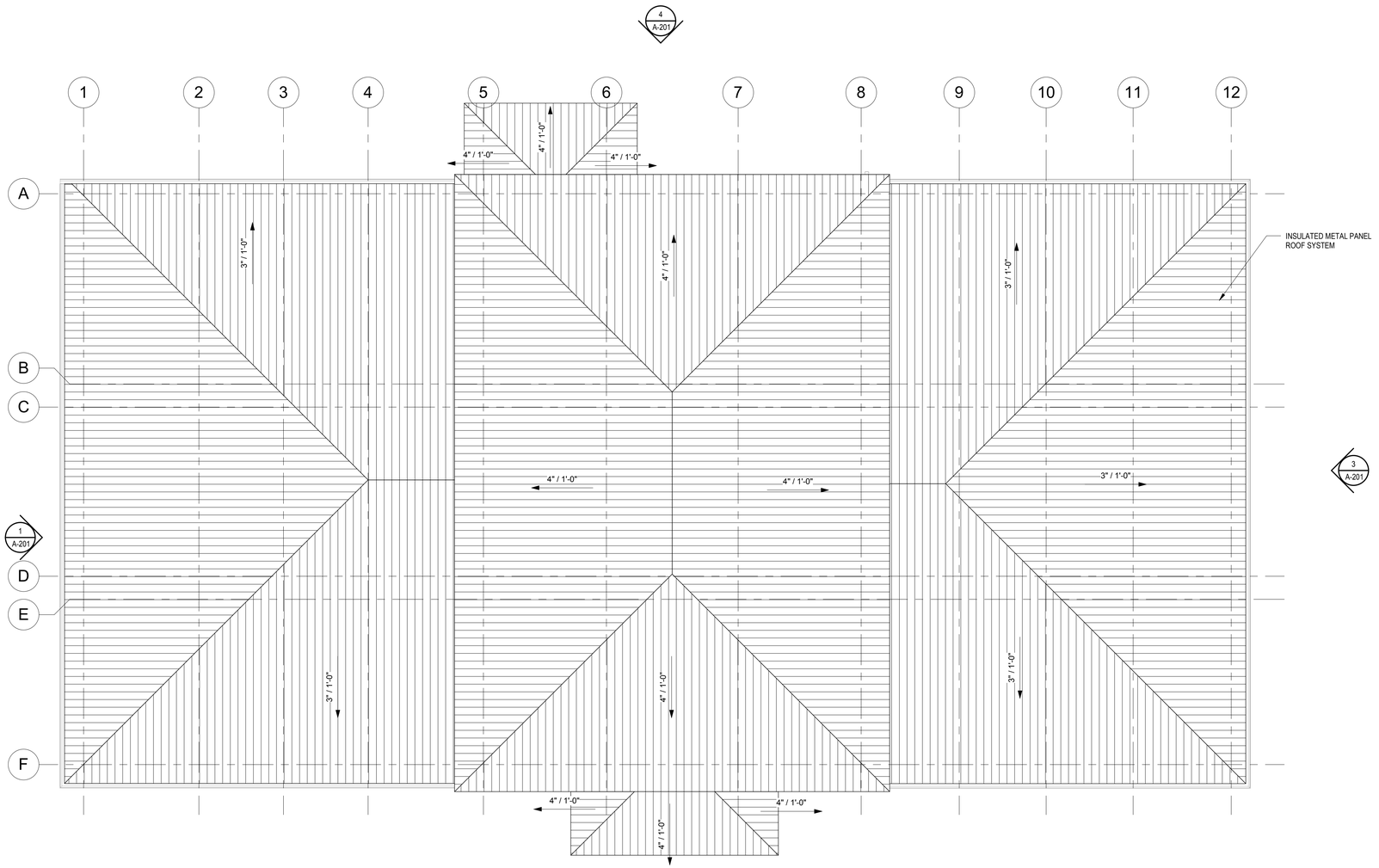

1 A-103 **ROOF PLAN**
SCALE: 3/16" = 1'-0"

NORTH

0' 2'-8" 5'-4" 10'-8"
SCALE: 3/16" = 1'-0"

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Drawing Title
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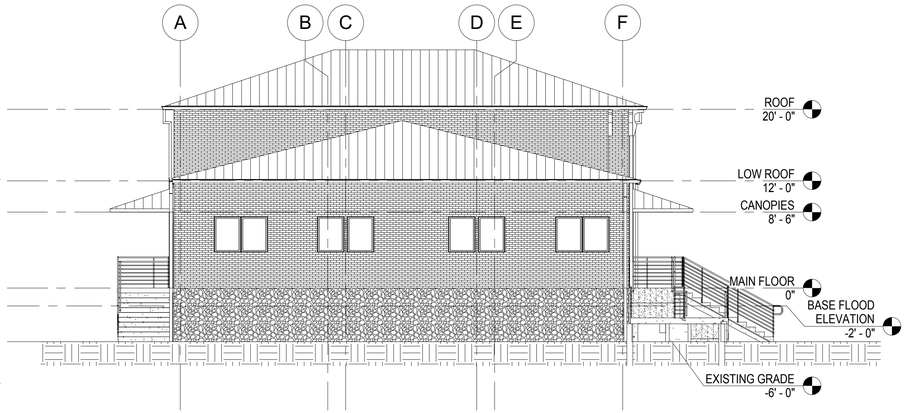
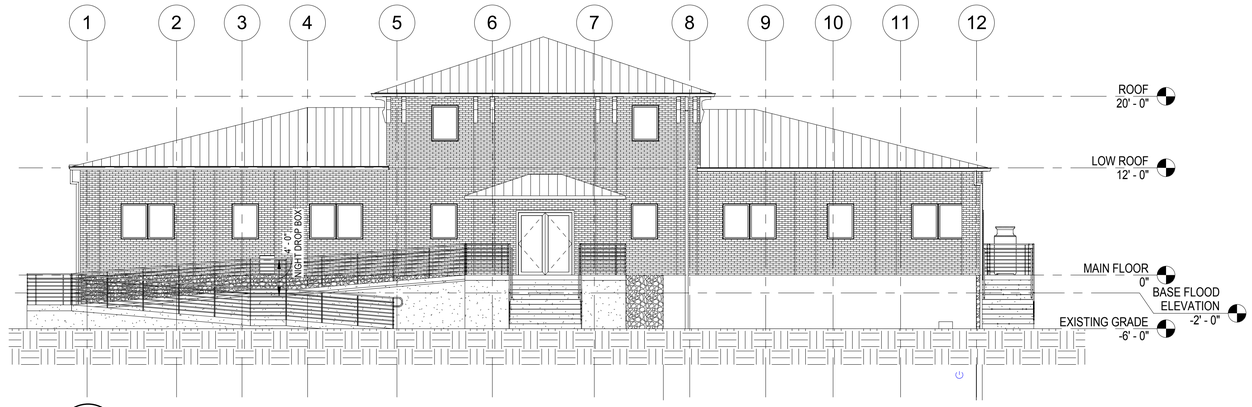
Drawing Number A-103



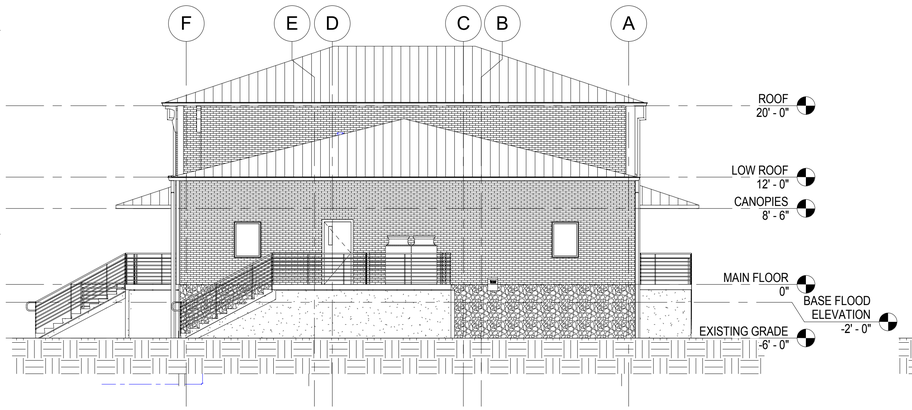
1 / A-201 **NORTH ELEVATION**

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



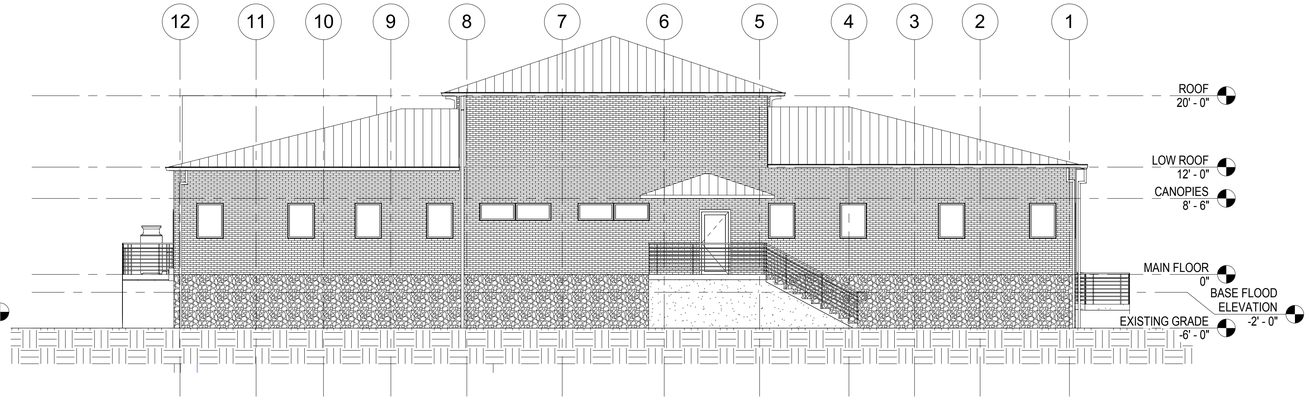
2 / A-201 **WEST ELEVATION**

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



3 / A-201 **SOUTH ELEVATION**

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



4 / A-201 **EAST ELEVATION**

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

0' 2' 4' 8' 16'

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

GENERAL NOTE

1. BASE FLOOD ELEVATION SHOWN AT -2'-0" WITH RESPECT TO MAIN FLOOR SLAB ELEVATION OF 0'-0". BASE FLOOD ELEVATION SHALL BE EQUAL TO OVERALL SITE ELEVATION OF 813.05. REFER TO CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.

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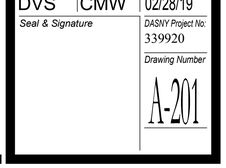

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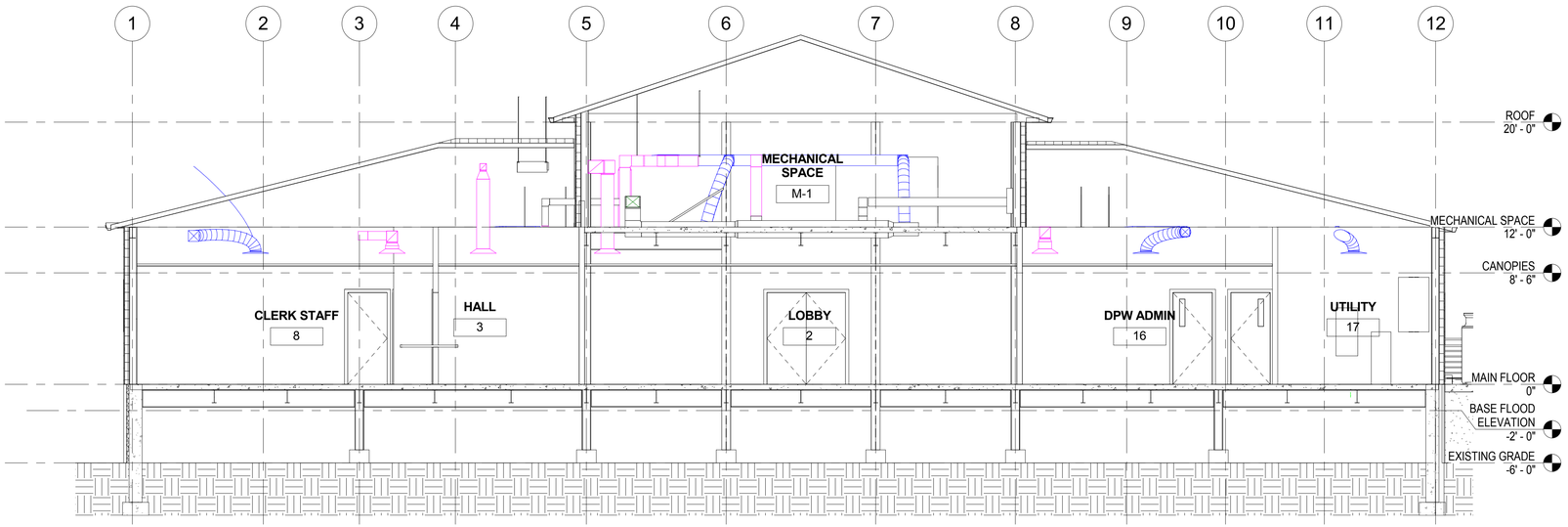
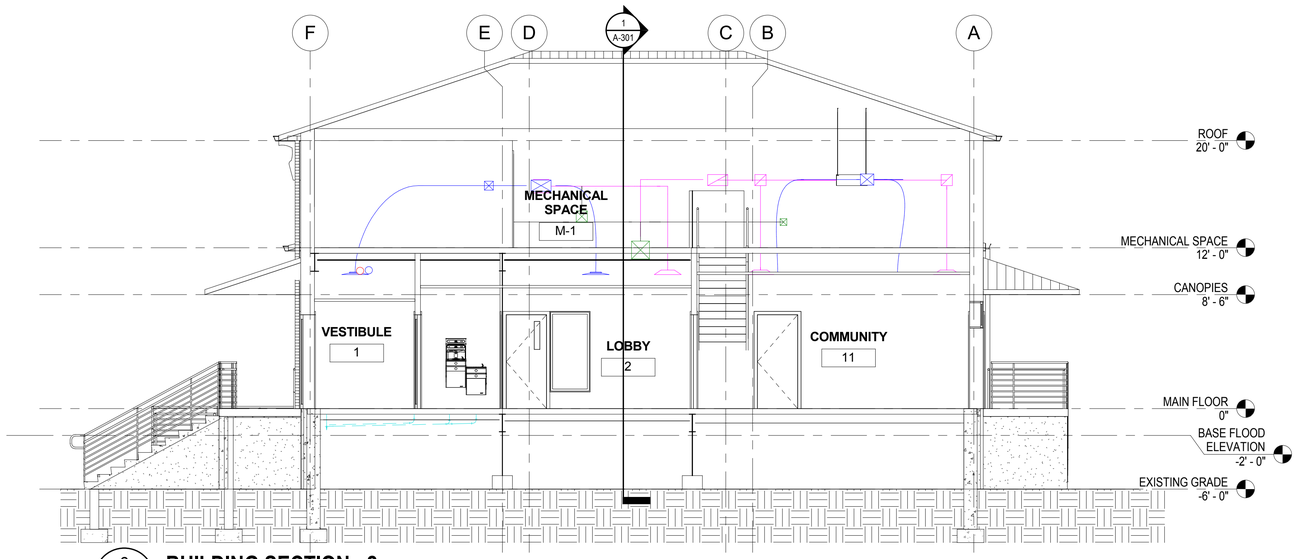


1 / A-301 **BUILDING SECTION - 1**

SCALE: 3/16" = 1'-0"



2 / A-301 **BUILDING SECTION - 2**

SCALE: 3/16" = 1'-0"

0' 2'-8" 5'-4" 10'-8"

SCALE: 3/16" = 1'-0"

GENERAL NOTE

1. BASE FLOOD ELEVATION SHOWN AT -2'-0" WITH RESPECT TO MAIN FLOOR SLAB ELEVATION OF 0'-0". BASE FLOOD ELEVATION SHALL BE EQUAL TO OVERALL SITE ELEVATION OF 813.05. REFER TO CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.

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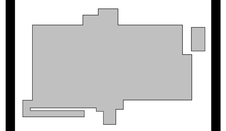

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BUILDING SECTIONS

Phase

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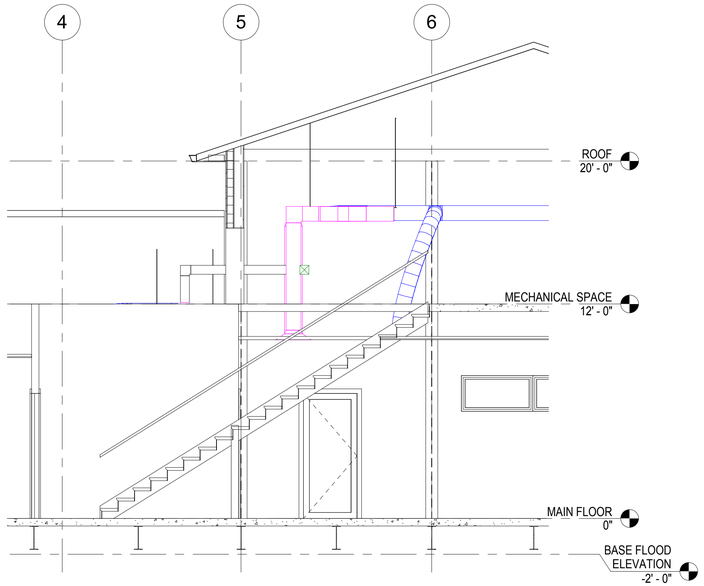
DVS	CMW	02/28/19

Seal & Signature

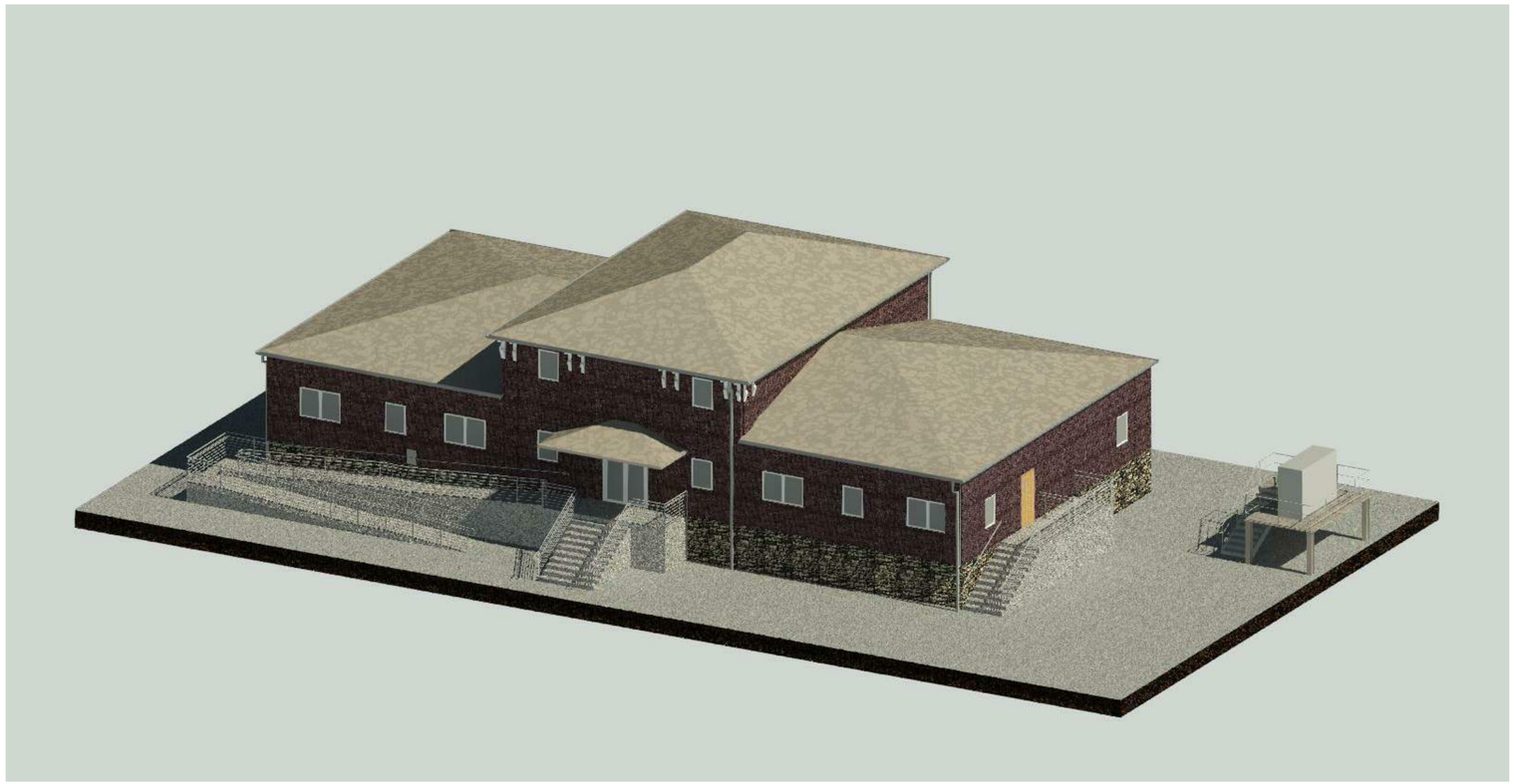
DASNY Project No: 339920

Drawing Number A-301



1 / A-302 **SECTION AT STAIR**

SCALE: 1/4" = 1'-0"



2 / A-302 **3D MASSING-CONCEPT**

SCALE: N.T.S.

0' 1' 2' 4' 8'

SCALE: 1/4" = 1'-0"

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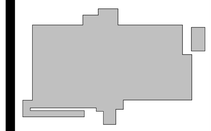
VILLAGE OF OWEGO
Coolest Small Town – 2009

Project Key



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Rev No	Description	Date:

Client

VILLAGE OF OWEGO

Project Title

NEW MUNICIPAL BUILDING

OWEGO, NEW YORK

Drawing Title

BUILDING SECTIONS

Phase

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Drawn By:	Checked By:	Date:
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DASNY Project No: 339920

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1
A-901

ISOMETRIC CONCEPT RENDER

SCALE: N.T.S.

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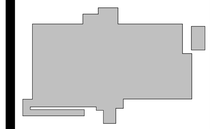

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Rev No	Description	Date:

Client
VILLAGE OF OWEGO

Project Title
NEW MUNICIPAL BUILDING
OWEGO, NEW YORK

Drawing Title
CONCEPT ISOMETRIC

Phase
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DASNY Project No:
339920

Drawing Number
A-901

PLUMBING LINETYPES

SYMBOL	DESCRIPTION
	LINE WEIGHT OF EXISTING EQUIPMENT AND PIPING
	LINE WEIGHT OF EQUIPMENT AND PIPING TO BE PROVIDED
	LINE WEIGHT OF EQUIPMENT AND PIPING TO BE REMOVED
	COLD WATER SUPPLY
	HOT WATER SUPPLY
	HOT WATER RETURN
TWS	TEMPERED WATER SUPPLY
TWR	TEMPERED WATER RETURN
	VENT PIPING
	SANITARY DRAINAGE
	SANITARY DRAINAGE BELOW GRADE
	STORM DRAINAGE
ST	STORM DRAINAGE BELOW SLAB
AW	ACID WASTE PIPING
AV	ACID VENT PIPING
G	GAS-LOW PRESSURE
MG	GAS-MEDIUM PRESSURE
HG	GAS-HIGH PRESSURE
GV	GAS VENT
FOS	FUEL OIL SUPPLY
FOR	FUEL OIL RETURN
FOV	FUEL OIL VENT
CD	CONDENSATE DRAIN

PLUMBING SYMBOLS

SYMBOL	DESCRIPTION
	POINT OF CONNECTION/DISCONNECTION
	UNION (SCREWED)
	UNION (FLANGED)
	GATE VALVE (OS&Y)
	GATE VALVE (NRS)
	GATE VALVE IN VERTICAL
	GATE ANGLE VALVE
	GLOBE VALVE (NRS)
	GLOBE ANGLE VALVE
	BALL VALVE
	BALL VALVE IN VERTICAL
	BUTTERFLY VALVE
	BUTTERFLY VALVE IN VERTICAL
	PLUG VALVE (NRS)
	BALANCE VALVE
	CHECK VALVE
	RELIEF VALVE
	STRAINER
	PRESSURE REDUCING VALVE
	PIPE DOWN, ELBOW FITTING
	PIPE UP, ELBOW FITTING
	PIPE CONNECTION BOTTOM, TEE FITTING
	PIPE CONNECTION TOP, TEE FITTING
	PIPE CAP
	PIPE REDUCER FITTING, CONCENTRIC
	PIPE REDUCER FITTING, ECCENTRIC
	PIPE ALIGNMENT GUIDE
	PIPE ANCHOR
	PRESSURE GAUGE AND COCK
	THERMOMETER AND THERMOWELL
	COMBINATION PRESSURE/TEMPERATURE TEST PLUG
	PUMP
	AQUASTAT
FS	FLOW SWITCH
PS	PRESSURE SWITCH
A	WATER HAMMER ARRESTOR (LETTER DESIGNATES PDI#)
	REDUCED ZONE BACKFLOW PREVENTER
	DOUBLE-CHECK BACKFLOW PREVENTER
	P-TRAP
	DIRECTION OF FLOW, PIPING
	DIRECTION OF PITCH, PIPING

PLUMBING ABBREVIATIONS

AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AMP	AMPERE
APPROX	APPROXIMATE
AVG	AVERAGE
BHP	BRAKE HORSEPOWER
BTU	BRITISH THERMAL UNIT
C TO C	CENTER TO CENTER
CA	COMPRESSED AIR
COND	CONDENSATE
CU FT	CUBIC FEET
CU IN	CUBIC INCHES
CU IN	CUBIC INCH
CV	COEFFICIENT, VALVE FLOW
CWS	COLD WATER SUPPLY
DEG F	DEGREES FAHRENHEIT
DIA	DIAMETER
EFF	EFFICIENCY
EL	ELEVATION
EQIV FT	EQUIVALENT FEET
EQIV IN	EQUIVALENT INCHES
ET	EXPANSION TANK
EXIST	EXISTING
F	FAHRENHEIT
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FT	FEET
FT LB	FOOT POUND
GAL	GALLONS
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
HD	HEAD
HGT	HEIGHT
HP	HORSEPOWER
HPS	HIGH PRESSURE STEAM
HR	HOUR(S)
HTHW	HIGH TEMPERATURE HOT WATER
HWR	HOT WATER SUPPLY
HWS	HOT WATER RETURN
HZ	FREQUENCY
ID	DIAMETER, INSIDE
IN.	INCHES
kW	KILOWATT
LBS	POUNDS
LF	LINEAR FOOT
LG	LENGTH
LPS	LOW PRESSURE STEAM
MAX	MAXIMUM
MER	MECHANICAL ROOM
MIN	MINIMUM
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OD	DIAMETER, OUTSIDE
PD	PRESSURE DROP OR DIFFERENCE
PH	PHASE (ELECTRICAL)
PSI	POUNDS PER SQUARE INCH
PSIG	PSI GAUGE
RECIRC	RECIRCULATE
RPM	REVOLUTIONS PER MINUTE
SF	SQUARE FEET
SPEC	SPECIFICATION
STD	STANDARD
TEMP	TEMPERATURE
V	VOLT
VAR	VARIABLE
VEL	VELOCITY
VOL	VOLUME
VTR	VENT THROUGH ROOF
W	WATT

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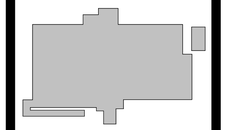

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VILLAGE OF OWEGO

Project Title

NEW MUNICIPAL BUILDING

OWEGO, NEW YORK

Drawing Title

PLUMBING LEAD SHEET

Phase

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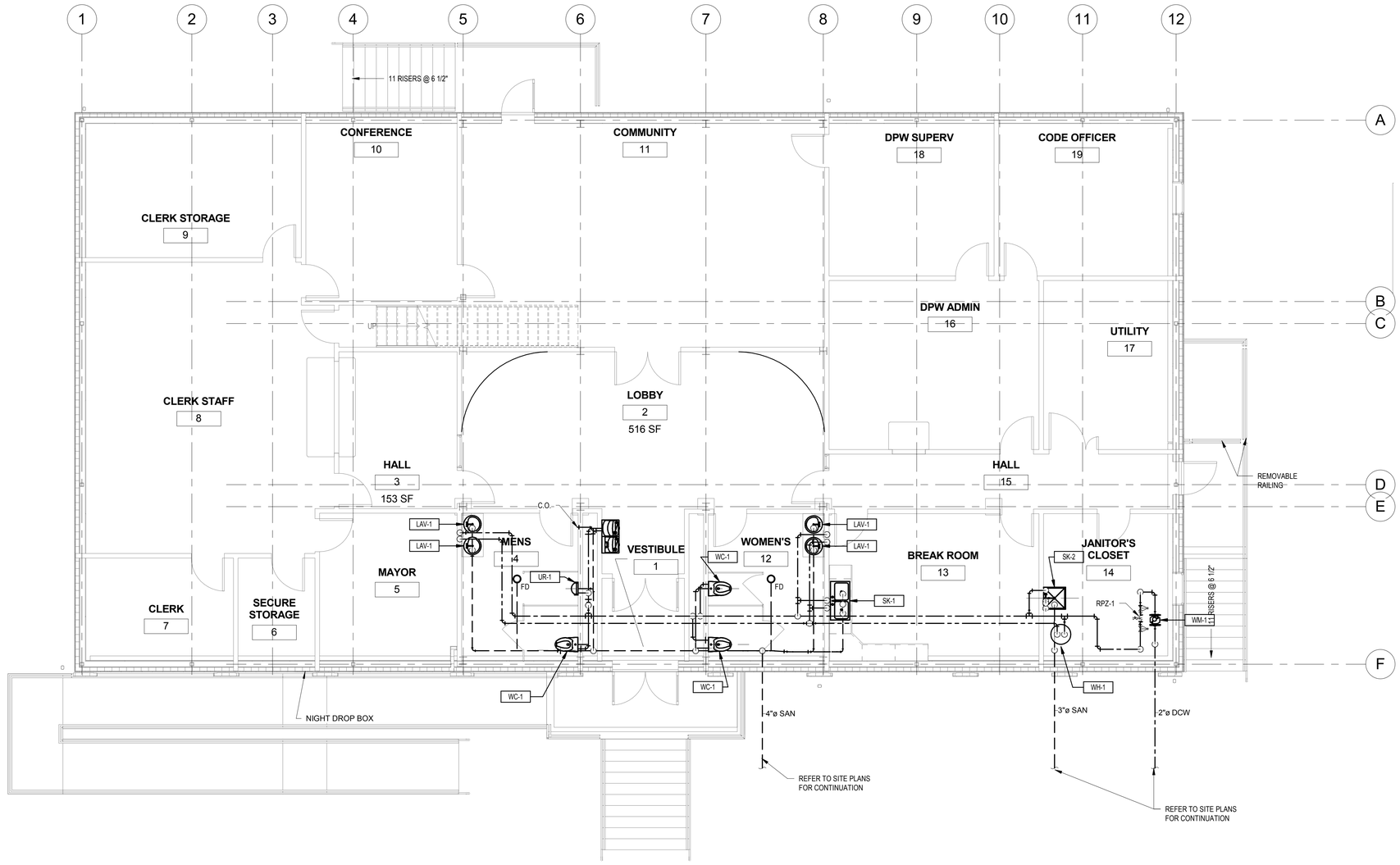
DASNY Project No: 339920

Drawing Number

P-001



1 P-101 **MAIN FLOOR PLUMBING PLAN**

SCALE: N.T.S.

0' 2'-8" 5'-4" 10'-8"

SCALE: 3/16" = 1'-0"

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Project Title

NEW MUNICIPAL BUILDING

OWEGO, NEW YORK

Drawing Title

MAIN FLOOR PLUMBING PLAN

Phase

30% SCHEMATIC

Drawn By:	Checked By:	Date:
JMW	TAC	02/28/19

Seal & Signature

DASNY Project No: 339920

Drawing Number P-101

HVAC LINETYPES

SYMBOL	DESCRIPTION
———	LINE WEIGHT OF EXISTING EQUIPMENT, DUCTWORK AND PIPING
———	LINE WEIGHT OF EQUIPMENT, DUCTWORK AND PIPING TO BE PROVIDED
— — —	LINE WEIGHT OF EQUIPMENT, DUCTWORK AND PIPING TO BE REMOVED
———	COMPRESSED AIR
——BBD——	BOILER BLOW DOWN
——CS——	CONDENSER WATER SUPPLY
– – –CR– – –	CONDENSER WATER RETURN
——CWS——	CHILLED WATER SUPPLY
– – –CWR– – –	CHILLED WATER RETURN
– – – D – – –	DRAIN
——GS——	GLYCOL SUPPLY
– – –GR– – –	GLYCOL RETURN
——HCS——	HOT/CHILLED WATER SUPPLY (TWO-PIPE SYSTEM)
– – –HCR– – –	HOT/CHILLED WATER RETURN (TWO-PIPE SYSTEM)
——HPS——	HIGH PRESSURE STEAM
– – –HPC– – –	HIGH PRESSURE CONDENSATE
——HWS——	HOT WATER SUPPLY
——HWR——	HOT WATER RETURN
——LPS——	LOW PRESSURE STEAM
– – –LPC– – –	LOW PRESSURE CONDENSATE
——MPS——	MEDIUM PRESSURE STEAM
– – –MPC– – –	MEDIUM PRESSURE CONDENSATE
——MU——	MAKE-UP WATER
– – –PC– – –	PUMPED CONDENSATE
——RG——	REFRIGERANT GAS
– – –RL– – –	REFRIGERANT LIQUID

HVAC SYMBOLS

SYMBOL	DESCRIPTION
	POINT OF CONNECTION/DISCONNECTION
	AIR VENT, AUTOMATIC
	AIR VENT, MANUAL
	BALANCE VALVE
	BALL VALVE
	BALL VALVE IN VERTICAL
	BUTTERFLY VALVE
	BUTTERFLY VALVE IN VERTICAL
	CHECK VALVE
	TRIPLE DUTY VALVE; COMBINATION SHUTOFF, BALANCING AND CHECK VALVE
	FUSIBLE LINK VALVE
	GATE VALVE
	GATE VALVE IN VERTICAL
	GATE ANGLE VALVE
	GLOBE VALVE
	PRESSURE REDUCING VALVE
	GLOBE ANGLE VALVE
	RELIEF VALVE
	THREE WAY VALVE
	TWO WAY VALVE
	SHUTOFF VALVE WITH DRAIN END
	STEAM TRAP
	STRAINER
	STRAINER WITH BLOW OFF VALVE
M	MOTORIZED ACTUATOR
P	PNEUMATIC ACTUATOR
S	SOLENOID ACTUATOR
	PIPE DOWN, ELBOW FITTING
	PIPE UP, ELBOW FITTING
	PIPE CONNECTION BOTTOM, TEE FITTING
	PIPE CONNECTION TOP, TEE FITTING
	PIPE CAP
	PIPE UNION
	PIPE REDUCER FITTING, CONCENTRIC
	PIPE REDUCER FITTING, ECCENTRIC
	PIPE ALIGNMENT GUIDE
	PIPE ANCHOR
	PRESSURE GAUGE AND COCK
	THERMOMETER AND THERMOWELL
	COMBINATION PRESSURE/TEMPERATURE TEST PLUG
	PUMP
T	THERMOSTAT
H	HUMIDISTAT
TS	TEMPERATURE SENSOR
HS	HUMIDITY SENSOR
P	PRESSURE SENSOR
dP	DIFFERENTIAL PRESSURE SENSOR
	DIRECTION OF FLOW, PIPING
	DIRECTION OF FLOW, DUCTWORK

HVAC SYMBOLS

SYMBOL	DESCRIPTION
10"x6" 10"Ø 10"/6"	RECTANGULAR DUCT SIZE ROUND DUCT SIZE OVAL DUCT SIZE
	SUPPLY OR OUTSIDE AIR DUCT UP
	SUPPLY OR OUTSIDE AIR DUCT DOWN
	EXHAUST OR RETURN AIR DUCT UP
	EXHAUST OR RETURN AIR DUCT DOWN
W R	ROUND OR RECTANGULAR RADIUS ELBOW
	RECTANGULAR MITERED ELBOW
	RECTANGULAR ELBOW WITH TURNING VANES
	FLEXIBLE DUCT CONNECTION
45°	RECTANGULAR SUPPLY BRANCH
45°	RECTANGULAR RETURN BRANCH
45°	RECTANGULAR TO ROUND BRANCH
	RECTANGULAR TO RECTANGULAR TRANSTION
	RECTANGULAR TO ROUND TRANSITION
UP	TRANSITION UP
DN	TRANSITION DOWN
	MANUAL VOLUME DAMPER
FD	FIRE DAMPER (FD) SMOKE DAMPER (SD) COMBINATION FIRE SMOKE DAMPER (FSD)
	ROOF PENETRATION, EXHAUST AND RETURN AIR
	ROOF PENETRATION, SUPPLY AND OUTSIDE AIR
	SUPPLY DIFFUSER, REGISTER OR GRILLE
	RETURN/EXHAUST REGISTER OR GRILLE
	FLEXIBLE DUCT CONNECTION
AD	ACCESS DOOR, SIDE
A/D	ACCESS DOOR TOP/BOTTOM
	DAMPER

HVAC ABBREVIATIONS

A	COMPRESSED AIR
AAD	AUTOMATIC AIR DAMPER
AC	AIR CONDITIONING UNIT
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY
AHU	AIR HANDLING UNIT
APD	AIR PRESSURE DROP
AS	AIR SEPERATOR
AV	AIR VENT
B	BOILER
BAS	BUILDING AUTOMATION SYSTEM
BBD	BOILER BLOW DOWN
BCU	BLOWER COIL UNIT
BDD	BACKDRAFT DAMPER
BHP	BRAKE HORSEPOWER
BS	BLACK STEEL
BTU	BRITISH THERMAL UNIT
CA	COMPRESSED AIR
CC	COOLING COIL
CFM	CUBIC FEET PER MINUTE
CH	CABINET HEATER
COND	COOLING COIL CONDENSATE
CONV	CONVECTOR
CP	CONDENSATE PUMP
CR	CONDENSER WATER RETURN
CS	CURRENT SWITCH
CS	CONDENSER WATER SUPPLY
CU	CONDENSING UNIT
CU. FT.	CUBIC FEET
CUH	CABINET UNIT HEATER
CV	CONTROL VALVE
CWR	CHILLED WATER RETURN
CWS	CHILLED WATER SUPPLY
D	DIFFUSER (DUCTWORK)
D	DRAIN (PIPING)
D	DEPTH
DA	DAMPER ACTUATOR
DB	DRY BULB TEMPERATURE
dB	DECIBELS
DDC	DIRECT DIGITAL CONTROL
DEG	DEGREE
DEG F	DEGREES FAHRENHEIT
DL	DOOR LOUVER
DOAU	DEDICATED OUTDOOR AIR UNIT
DP	DEWPOINT TEMPERATURE
DX	DIRECT EXPANSION
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EER	ENERGY EFFICIENCY RATIO
EFF	EFFICIENCY
ERU	ENERGY RECOVERY UNIT
ES	END POSITION SWITCH
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
EWT	ENTERING WATER TEMPERATURE
FC	FLEXIBLE CONNECTION
FCU	FAN COIL UNIT
FD	FIRE DAMPER
FLA	FULL LOAD AMPS
FPH	FEET PER HOUR
FPM	FEET PER MINUTE
FSD	FIRE SMOKE DAMPER
FT	FEET
FTR	FIN TUBE RADIATION
G	GRILLE
GAL	GALLONS
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GR	GLYCOL RETURN
GS	GLYCOL SUPPLY
HC	HEATING COIL
HCR	HEATING/COOLING RETURN (TWO-PIPE SYSTEM)
HCS	HEATING/COOLING SUPPLY (TWO-PIPE SYSTEM)
HEX	HEAT EXCHANGER, AIR TO AIR
HP	HORSEPOWER
HPC	HIGH PRESSURE CONDENSATE
HPS	HIGH PRESSURE STEAM
HTHWR	HIGH TEMPERATURE HOT WATER RETURN
HTHWS	HIGH TEMPERATURE HOT WATER SUPPLY
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HX	HEAT EXCHANGER, WATER TO WATER
Hz	HERTZ
IN.	INCHES
IN. W.G.	INCHES WATER GAUGE
L	LOUVER
L	LENGTH
LAT	LEAVING AIR TEMPERATURE
LB/HR	POUNDS PER HOUR
LPC	LOW PRESSURE CONDENSATE
LPS	LOW PRESSURE STEAM
LWT	LEAVING WATER TEMPERATURE
MAU	MAKE-UP AIR UNIT

HVAC ABBREVIATIONS

MAX	MAXIMUM
MBH	THOUSANDS OF BTU
MER	MECHANICAL ROOM
MIN	MINIMUM
MOD	MODULATE
MPC	MEDIUM PRESSURE CONDENSATE
MPS	MEDIUM PRESSURE STEAM
MU	MAKE-UP WATER
NC	NOISE CRITERIA
NO	NORMALLY OPEN
OA	OUTIDE AIR
OAT	OUTDOOR AIR TEMPERATURE
OV	OUTLET VELOCITY
PC	PUMPED CONDENSATE
PD	PRESSURE DROP
PH	PHASE
POS	POSITION
PRV	PRESSURE REDUCING VALVE
PSF	POUNDS PER SQUARE FEET
PSI	POUNDS PER SQUARE INCH
R	REGISTER
RA	RETURN AIR
RCP	RADIANT CEILING PANEL
REFRIG	REFRIGERANT
RG	REFRIGERANT GAS
RH	RELATIVE HUMIDITY
RHC	REHEAT COIL
RL	REFRIGERANT LIQUID
RPM	REVOLUTIONS PER MINUTE
RTU	ROOFTOP AIR HANDLING UNIT
SA	SUPPLY AIR
SD	SMOKE DAMPER
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SF	SQUARE FEET
SP	STATIC PRESSURE
SP. GR.	SPECIFIC GRAVITY
SS	STAINLESS STEEL
ST	STATUS
TEMP	TEMPERATURE
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
UC	UNDER CUT
UH	UNIT HEATER
UV	UNIT VENTILATOR
V	VOLT
VAV	VARIABLE AIR VOLUME
VB	VACUUM BREAKER
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
W	WIDTH
WB	WET BULB TEMPERATURE
WPD	WATER PRESSURE DROP

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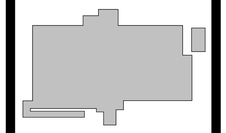

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Rev No.	Description	Date:

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VILLAGE OF OWEGO

Project Title

NEW MUNICIPAL BUILDING

OWEGO, NEW YORK

Drawing Title

MECHANICAL LEAD SHEET

Phase

30% SCHEMATIC

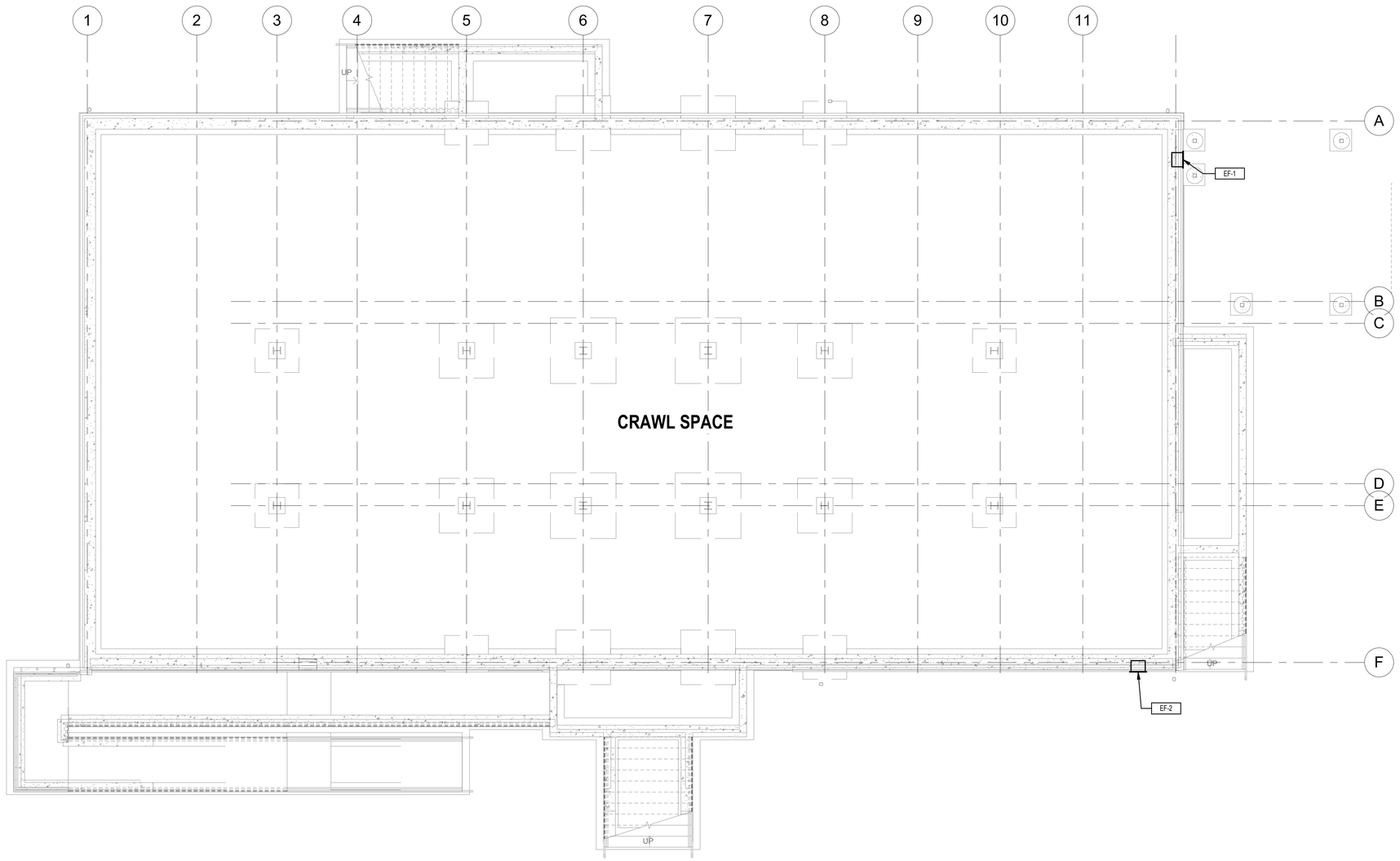
Drawn By:	Checked By:	Date:
JMW	TAC	02/28/19

Seal & Signature

DASNY Project No: 339920

Drawing Number

M-001



1 M-100 **MECHANICAL CRAWL SPACE PLAN**

SCALE: 3/16" = 1'-0"

0' 2'-8" 5'-4" 10'-8"

SCALE: 3/16" = 1'-0"

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VILLAGE OF OWEGO

Project Title

NEW MUNICIPAL BUILDING

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Drawing Title

MECHANICAL CRAWL SPACE PLAN

Phase

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Drawn By:	Checked By:	Date:
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DASNY Project No: 339920

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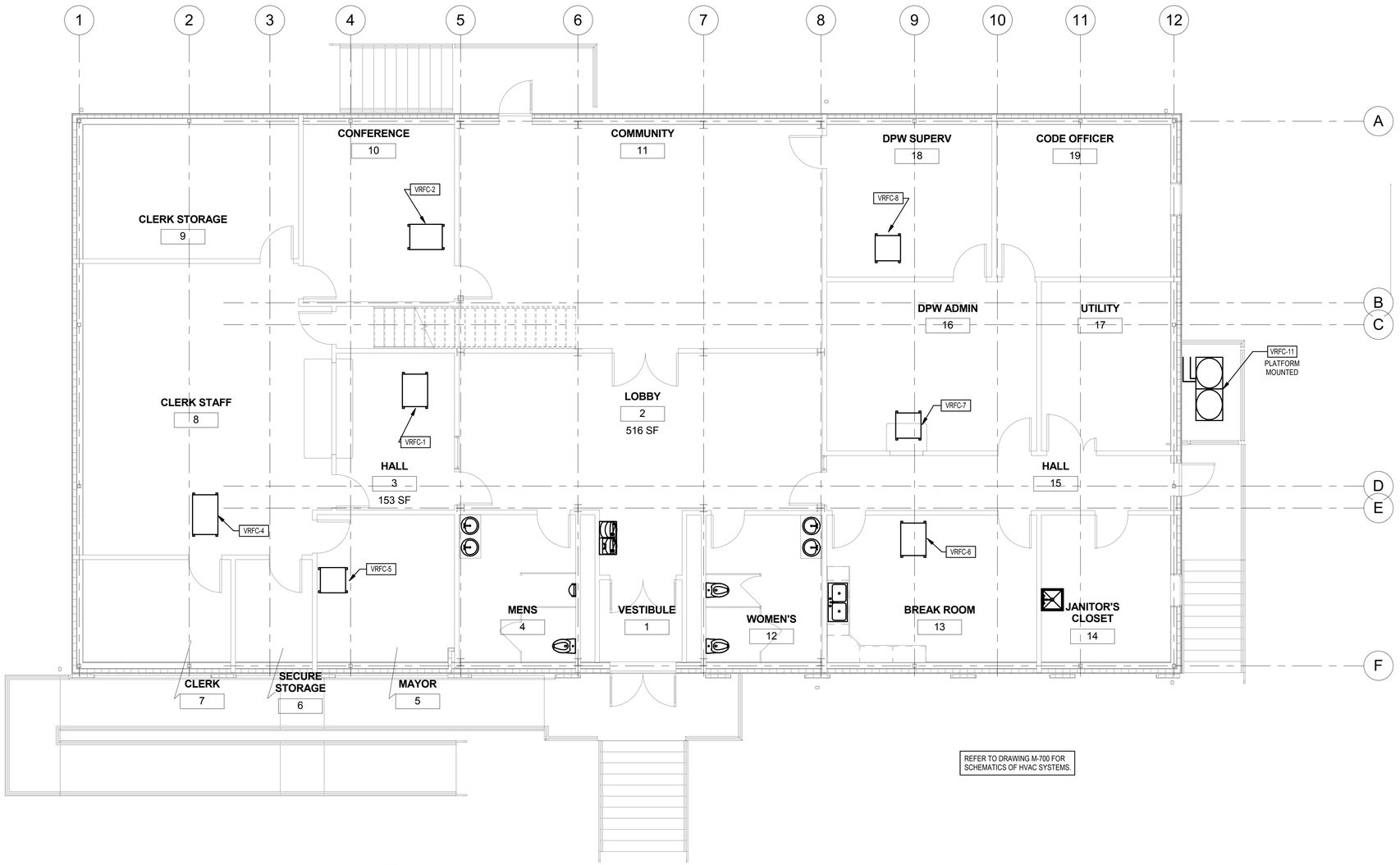

1 / M-101 **MAIN FLOOR MECHANICAL PLAN**

SCALE: 3/16" = 1'-0"

0' 2'-8" 5'-4" 10'-8"

SCALE: 3/16" = 1'-0"

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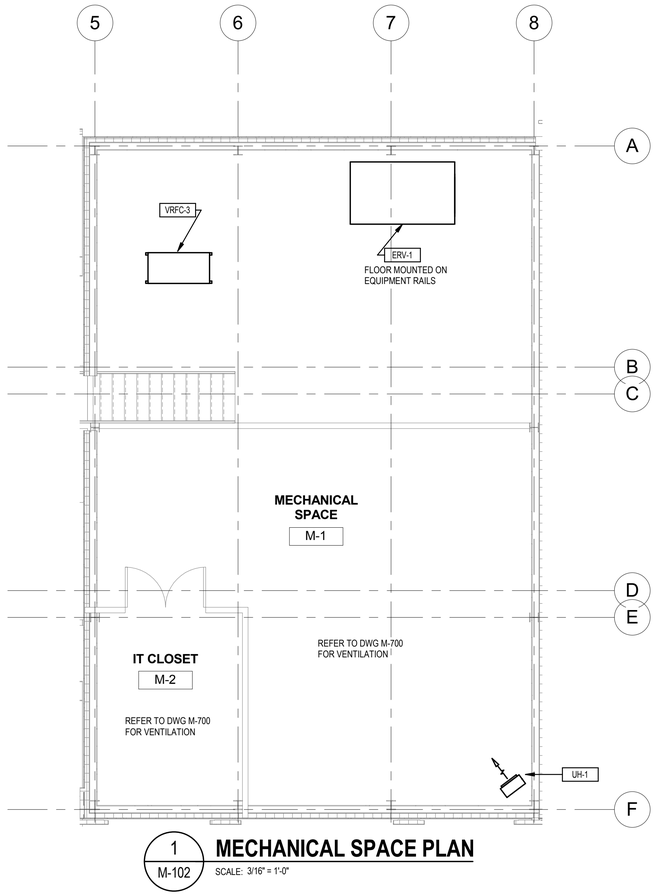

1 / M-102 **MECHANICAL SPACE PLAN**

SCALE: 3/16" = 1'-0"

0' 2'-8" 5'-4" 10'-8"

SCALE: 3/16" = 1'-0"

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Governor's Office of Storm Recovery

VILLAGE OF OWEGO
Coolest Small Town – 2009

Project Key

NORTH

REVISIONS

Rev No	Description	Date:

Client

VILLAGE OF OWEGO

Project Title

NEW MUNICIPAL BUILDING

OWEGO, NEW YORK

Drawing Title

MECHANICAL SPACE PLAN

Phase

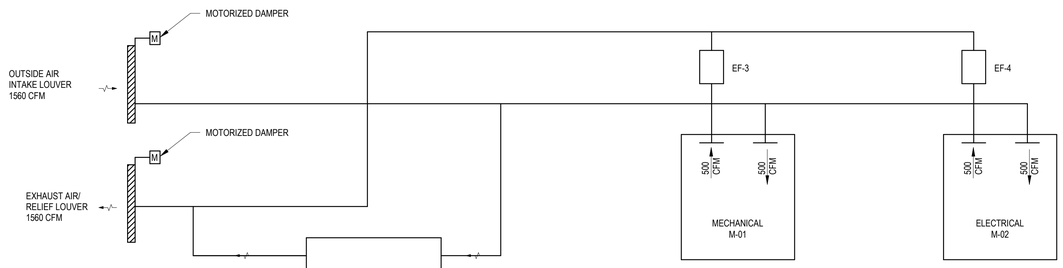
30% SCHEMATIC

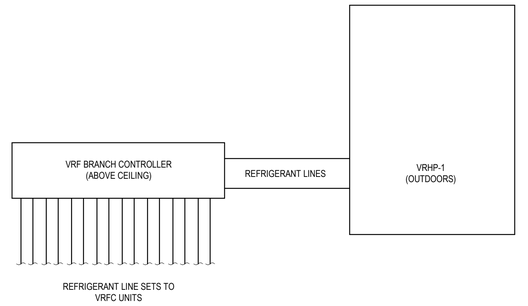
Drawn By:	Checked By:	Date:
JMW	TAC	02/28/19

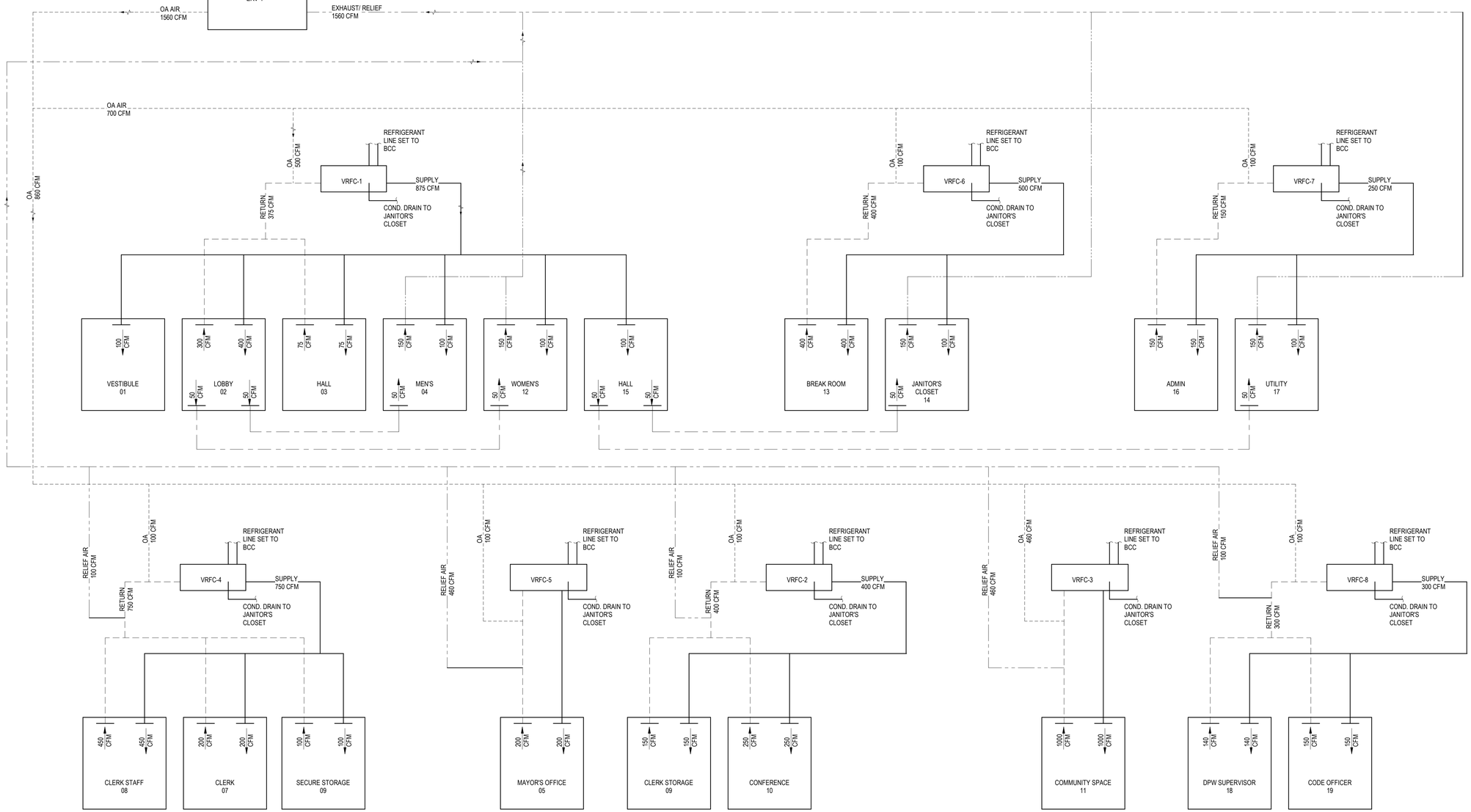
Seal & Signature

DASNY Project No: 339920

Drawing Number M-102







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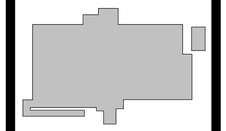

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REVISIONS

Rev No	Description	Date:

Client
VILLAGE OF OWEGO

Project Title
NEW MUNICIPAL BUILDING

OWEGO, NEW YORK

Drawing Title
HVAC SCHEMATICS

Phase
30% SCHEMATIC

Drawn By:	Checked By:	Date:
JMW	TAC	02/28/19

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DASNY Project No:
339920

Drawing Number
M-700

LIGHTING LEGEND

SYMBOL	DESCRIPTION
	2'x4' LUMINAIRE
	2'x4' EMERGENCY LUMINAIRE
	1'x4' LUMINAIRE
	1'x4' EMERGENCY LUMINAIRE
	1'x4' WALL-MOUNT LUMINAIRE
	1'x4' EMERGENCY WALL-MOUNT LUMINAIRE
	2'x2' LUMINAIRE
	2'x2' EMERGENCY LUMINAIRE
	SQUARE DOWNLIGHT
	SQUARE DOWNLIGHT - EMERGENCY
	ROUND DOWNLIGHT
	ROUND DOWNLIGHT - EMERGENCY
	BUILDING MOUNTED LUMINAIRE
	BUILDING MOUNTED EMERGENCY LUMINAIRE
	WALL SCONCE
	WALL-MOUNT EXIT SIGN - REFER TO PLANS FOR CHEVRONS
	CEILING EXIT SIGN - REFER TO PLANS FOR CHEVRONS AND SINGLE/DOUBLE FACE
	EMERGENCY LIGHTING BATTERY UNIT
BU	COMBO EXIT/EMERGENCY LIGHTING BATTERY UNIT
	EMERGENCY LIGHTING REMOTE HEADS
$	LIGHT SWITCH
$K	KEY-OPERATED LIGHT SWITCH
$3	3-WAY LIGHT SWITCH
$4	4-WAY LIGHT SWITCH
$OS	WALL OCCUPANCY SWITCH
$F	FAN SWITCH
OS	CEILING OCCUPANCY SENSOR
PC	PHOTOCELL

FIRE ALARM LEGEND

SYMBOL	DESCRIPTION
FACP	FIRE ALARM CONTROL PANEL
FAA	REMOTE ANNUNCIATOR
F	MANUAL PULL STATION
H	HEAT DETECTOR ('S' = SOUNDER BASE, 'CO' = CARBON MONOXIDE + SOUNDER BASE, 'XXX'' = FIXED TEMP DETECTOR)
S	SMOKE DETECTOR ('S' = SOUNDER BASE, 'CO' = CARBON MONOXIDE + SOUNDER BASE)
D	DUCT DETECTOR
S H	PROJECTED BEAM DETECTOR
RTS	REMOTE TEST SWITCH
S	STROBE (XXcd DENOTES CANDELA)
F	HORN/SPEAKER
F	HORN/SPEAKER STROBE (XXcd DENOTES CANDELA)
TS	TAMPER SWITCH
FS	FLOW SWITCH
CM	CONTROL MODULE
MM	MONITOR MODULE
DH	MAGNETIC DOOR HOLD OPEN

POWER LEGEND

SYMBOL	DESCRIPTION
	NON-FUSED SAFETY SWITCH
	FUSED SAFETY SWITCH
CB	ENCLOSED CIRCUIT BREAKER
C	CONTACTOR
R	RELAY
	MOTOR STARTER
	HARDWIRED EQUIPMENT CONNECTION
H	HAND DRYER
J J	JUNCTION BOX
FB	FLOORBOX
	SPECIAL RECEPTACLE
	DUPLEX RECEPTACLE
	SIMPLEX RECEPTACLE
	GROUND FAULT DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE (INSTALLED ABOVE CASEWORK)
	GROUND FAULT DUPLEX RECEPTACLE (INSTALLED ABOVE CASEWORK)
	QUADRAPLEX RECEPTACLE
	DOUBLE DUPLEX RECEPTACLE
	FLOORBOX WITH DUPLEX RECEPTACLE
	FLOORBOX WITH SPECIAL RECEPTACLE
TMGB	TELCO MAIN GROUND BUS
CS	CONTROL STATION
	BONDING CONNECTION
	TELEPOWER POLE
	CONDUIT SLEEVE
$M	MANUAL SWITCH
	PANELBOARD
HH	ELECTRIC HANDHOLE

TELECOMMUNICATIONS LEGEND

SYMBOL	DESCRIPTION
(X)	DATA OUTLET (X) DENOTES NUMBER OF JACKS
TV	TELEVISION OUTLET
	TELEPHONE OUTLET
	EXISTING TELEPHONE OUTLET
IC	INTERCOM STATION
VC	VOLUME CONTROL
S	CEILING SPEAKER
S	WALL SPEAKER
	CLOCK

SECURITY LEGEND

SYMBOL	DESCRIPTION
ACP	ACCESS CONTROL PANEL
CR	CARD READER
RR	REMOTE RELEASE STATION
ES	ELECTRIC STRIKE
DC	DOOR CONTACT
ER	ELECTRIC LATCH RETRACT
	SECURITY CAMERA
REX	REQUEST-TO-EXIT SENSOR

ELECTRICAL ABBREVIATIONS

##AF	ARC FAULT CIRCUIT BREAKER. ## INDICATES BREAKER SIZE
'A' SERIES	ARCHITECTURAL DRAWINGS
'C' SERIES	CIVIL DRAWINGS
'E' SERIES	ELECTRICAL DRAWINGS
'H' SERIES	HVAC DRAWINGS
'P' SERIES	PLUMBING DRAWINGS
AFF	ABOVE FINISHED FLOOR
AL	ALUMINUM
AMP	AMPERAGE
ATS	AUTOMATIC TRANSFER SWITCH
AUX	AUXILIARY
AWG	AMERICAN WIRE GUAGE
BKR	BREAKER
CB	CIRCUIT BREAKER
cd	CANDELA
CKT	CIRCUIT
CU	CONDENSING UNIT
CUH	CABINET UNIT HEATER
DDC	TEMPERATURE CONTROLS
DEFIB	DEFIBRILLATOR CABINET
DIA	DIAMETER
DISC	DISCONNECT
DM	DIMMER
EF	EXHAUST FAN
EM	EMERGENCY BALLAST
EMER	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
ENC	ENCLOSURE
EWC	ELECTRIC WATER COOLER
FA	FIRE ALARM
GFI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
GRC	GALVANIZED RIGID CONDUIT
J-BOX	JUNCTION BOX
LB	CONDULETTE
LV	LOW VOLTAGE
MCB	MAIN CIRCUIT BREAKER
MFR	MANUFACTURER
MH	METAL HALIDE
MLO	MAIN LUG ONLY
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
OS	OCCUPANCY SENSOR
PIV	POST INDICATOR VALVE
QUAD	QUADRAPLEX
RECPTS	RECEPTACLES
SPEC	SPECIFICATION
SR	SURFACE RACEWAY
SW	SWITCH
TELCO	TELECOMMUNICATIONS
TSP	TWISTED, SHIELDED PAIR
TYP	TYPICAL
UC	UNDER COUNTER
UE	UNDERGROUND ELECTRIC
UF	UNDERGROUND FIBER
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
WP	WEATHERPROOF
XFMR	TRANSFORMER
Ø	ELECTRICAL PHASE

EMERGENCY / EXIT SIGN GENERAL NOTES

A. EMERGENCY AND EXIT SIGN LIGHTING SHALL BE INSTALLED IN DEDICATED RACEWAYS AND JUNCTION BOXES, SEPARATE AND SEGREGATED FROM ALL OTHER WIRING SYSTEMS.
B. EMERGENCY LIGHTING SHALL BE UNSWITCHED AND SHALL SERVE AS BOTH THE EMERGENCY AND NIGHT LIGHTING.
C. EMERGENCY LIGHTING BATTERY BALLASTS SHALL BE INSTALLED WITHIN THE BALLAST COMPARTMENT, ON TOP OF THE HOUSING OR WITHIN 5'-0" OF THE EMERGENCY LIGHT FIXTURE. CIRCUIT BATTERY BALLASTS IN PARALLEL WITH THE ELECTRONIC BALLAST. PROVIDE AN UNSWITCHED PHASE CONDUCTOR FROM THE LIGHTING BRANCH CIRCUIT SERVING THE SPACE THE EMERGENCY LIGHT IS INSTALLED FOR POWER SENSING AND CHARGING. LOCATE REMOTE TEST BUTTON IN ADJACENT CEILING TILE.
D. EMERGENCY LIGHTING BATTERY UNITS: PROVIDE AN UNSWITCHED PHASE CONDUCTOR FROM THE LIGHTING BRANCH CIRCUIT SERVING THE SPACE THE UNIT IS INSTALLED FOR POWER SENSING AND CHARGING.
E. EMERGENCY LIGHTING REMOTE UNITS: CIRCUIT TO NEAREST EMERGENCY LIGHTING BATTERY UNIT.
F. EXIT SIGNS SHALL CONTAIN INTEGRAL BATTERIES AND SHALL BE CONNECTED TO THE UNSWITCHED LIGHTING BRANCH CIRCUIT SERVING THE SPACE THE UNIT IS INSTALLED.

EQUIPMENT MOUNTING HEIGHT GENERAL...

CARD READERS	48"	TOP OF BOX
LIGHT SWITCHES	48"	TOP OF BOX
RECEPTACLES	18"	TOP OF BOX
DATA OUTLETS	18"	TOP OF BOX
TELEVISION OUTLETS	84"	TOP OF BOX
TELEPHONE OUTLETS	48"	TOP OF BOX
SAFETY SWITCHES	60"	CENTERLINE OF HANDLE
MOTOR STARTERS	60"	CENTERLINE OF HANDLE
PANELBOARDS	72"	TOP OF PANELBOARD
MANUAL PULL STATIONS	48"	OPERABLE HANDLE
NOTIFICATION APPLIANCES	80"	BOTTOM OF LENS
DOOR HOLD OPENS		COORDINATE IN FIELD
EM LIGHTING BATTERY UNITS	96"	BOTTOM OF UNIT
EM LIGHTING REMOTE UNITS	102"	BOTTOM OF UNIT
WALL MOUNT EXIT SIGNS	96"	BOTTOM OF UNIT

TELECOMMUNICATIONS GENERAL NOTES

A. PERFORM ALL BACKBONE CABLE INSTALLATION IN CONFORMANCE WITH MANUFACTURER'S INSTALLATION GUIDELINES.
B. ENSURE THAT MAXIMUM PULLING TENSION OF TELCO CABLES ARE NOT EXCEEDED AND CABLE BENDS MAINTAIN THE PROPER BEND RADIUS DURING INSTALLATION.
C. DO NOT ROLL OR STORE CABLE REELS WITHOUT AN APPROPRIATE UNDERLAY.
D. PROVIDE STRAIN RELIEF FOR ALL INCOMING TELCO CABLES AT SERVICE ENTRANCE.
E. DATA / TELEVISION AND TELEPHONE OUTLETS: PROVIDE A 4x4 BACKBOX WITH 3/4-IN. EMT AND PULLSTRING TO ABOVE FINISHED CEILING. BUSH END OF CONDUIT ABOVE CEILING. PROVIDE A SINGLE-GANG MUD RING AT JUNCTION BOX. PROVIDE COVERPLATES, JACKS, TERMINATIONS AND TESTING. REFER TO TELCO RISERS FOR CABLING REQUIREMENTS.
F. INSTALL TELCO WIRING IN EXPOSED LOCATIONS, CONCEALED WITHIN WALLS OR INACCESSIBLE CEILINGS IN RIGID, METALLIC RACEWAY.
G. NEATLY BUNDLE, TIGHTLY WRAP AND SECURE TELCO WIRING TO BUILDING STRUCTURE ABOVE ACCESSIBLE CEILINGS USING APPROVED HANGERS.
H. PROVIDE 2-IN. DIAMETER (UNLESS NOTED OTHERWISE) CONDUIT SLEEVES THROUGH FLOORS AND ABOVE FINISHED CEILINGS. BUSH BOTH ENDS OF SLEEVES.
I. PROVIDE THROUGH AND MEMBRANE FIRESTOPPING AT ALL PENETRATIONS THROUGH FIRE RATED CONSTRUCTION AFTER INSTALLATION OF TELCO CABLES. REFER TO CODE COMPLIANCE PLANS FOR LOCATIONS OF FIRE RATED CONSTRUCTION. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS PERTAINING TO RATED FLOOR, CEILING AND PARTITION TYPES INCLUDING THE RELEVANT UL DESIGN NUMBER AND FIRE RATING IN HOURS. REFER TO SPECIFICATION SECTION 078400 FOR ADDITIONAL FIRESTOPPING REQUIREMENTS.
J. SEAL ALL PENETRATIONS THROUGH NON-FIRE RATED CONSTRUCTION WITH MORTAR.
K. PRE-TEST THE DATA, TELEVISION AND TELEPHONE SYSTEMS AND VERIFY THEYARE OPERATING PROPERLY AND IN ACCORDANCE WITH THE ORIGINAL DESIGN. ISSUE A REPORT DETAILING ALL FINDINGS OR DEFIENCIES TO OWNER. REFER TO SPECIFICATIONS FOR PRE-TEST REQUIREMENTS FOR EACH SYSTEM.
L. TELCO CABLE SUPPORTS (J-HOOKS, ETC.) SHALL BE SECURED TO THE BUILDING STRUCTURE NO MORE THANB 4-FT. APART.

LINETYPE LEGEND

	EXISTING TO REMAIN
- - - - - - - - -	REMOVED EQUIPMENT/ EQUIPMENT TO BE RELOCATED
	ITEM TO BE PROVIDED
UE	UNDERGROUND ELECTRIC
UT	UNDERGROUND TELCO
UL	UNDERGROUND LIGHTING
OE	OVERHEAD ELECTRIC
OT	OVERHEAD TELCO

WIRE LEGEND

#X — CONDUIT / HOMERUN TO PANEL.
#12 AWG UNLESS NOTED OTHERWISE
PROVIDE NEUTRAL CONDUCTOR UNLESS NOTED OTHERWISE
#X INDICATES WIRE SIZE OTHER THAN #12 AWG

MECHANICAL TAG LEGEND

XX-XX x

EQUIPMENT ID | TYPE NUMBER | ELECTRICAL SCHEDULE ID

POWER GENERAL NOTES

A. ELECTRICAL PLANS ARE SCHEMATIC IN NATURE AND ARE NOT INTENDED TO DEPICT ALL OF THE ARCHITECTURAL DETAIL OR SPECIFIC ROUTING OF CONDUITS, WIRING, ETC. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND ROUTING ONSITE WITH ACTUAL CONDITIONS.
B. ALL EQUIPMENT AND MATERIALS SHALL SHOW EVIDENCE OF LISTING OR LABELLING BY AN AGENCY ACCEPTABLE TO THE BUILDING CODE OF NEW YORK STATE.
C. PROVIDE ALL NECESSARY ANCHORS, SUPPORTS, STRAPS, BOXES, FITTINGS AND OTHER APPURTENANCES NOT INDICATED ON THE DRAWINGS BUT REQUIRED FOR A COMPLETE SYSTEM.
D. INSTALL ALL BRANCH CIRCUITRY WITHIN RACEWAY UNLESS NOTED OTHERWISE. MINIMUM DIAMETER OF RACEWAY IS: 3/4-IN.
E. ALL CONDUIT SHALL BE SUPPORTED BY PIPE STRAPS, SUITABLE CLAMPS OR HANGERS ATTACHED TO THE BUILDING STRUCTURE. CONDUIT SHALL NOT BE SUPPORTED FROM ADJOINING PIPE OR INSTALLED IN SUCH A MANNER AS TO PREVENT THE READY REMOVAL OF OTHER EQUIPMENT FOR REPAIRS.
F. CONDUCTORS #10 AND SMALLER SHALL BE SOLID COPPER TYPE XHHW, THHN OR THWN. CONDUCTORS #8 AND LARGER SHALL BE STRANDED COPPER TYPE XHHW, THHN OR THWN. CONDUCTORS INSTALLED IN DAMP OR WET LOCATIONS SHALL BE TYPE XHHW.
G. IDENTIFY ALL CONDUCTORS AT BOTH ENDS AND WITHIN CABINETS AND JUNCTION BOXES WITH PREMARKED, SELF-ADHESIVE, WRAPAROUND TYPE LABELS.
H. PROVIDE A SEPARATE NEUTRAL CONDUCTOR WITH EACH BRANCH CIRCUIT. SHARED NEUTRAL CONDUCTORS ARE NOT PERMITTED.
I. GROUNDING CONDUCTORS ARE GENERALLY NOT SHOWN. GROUND AND BOND ALL EQUIPMENT, RACEWAYS, MOTORS, PANELBOARDS, SWITCHBOARDS, ETC. IN ACCORDANCE WITH NEC ARTICLE 250.
J. CONDUIT SYSTEMS SHALL BE ELECTRICALLY CONTINUOUS. ALL LOCK NUTS SHALL CUT THROUGH ENAMELED OR PAINTED SURFACES OR ENCLOSURES. WHERE ENCLOSURES AND NON-CURRENT CARRYING METALS ARE ISOLATED FROM THE CONDUIT SYSTEM, USE BONDING JUMPERS WITH APPROVED CLAMPS. WHERE REDUCING WASHERS ARE USED AND WHERE CONCENTRIC OR ECCENTRIC KNOCKOUTS ARE NOT COMPLETELY REMOVED BONDING BUSHINGS ARE REQUIRED.
K. SIZE ALL MOTOR OVERLOADS OR FUSES WITH THE ACTUAL EQUIPMENT NAMEPLATE. FUSES FOR MOTOR AND TRANSFORMER CIRCUITS SHALL BE DUAL ELEMENT. FUSES FOR OTHER "NON-INRUSH" EQUIPMENT SHALL BE FAST ACTING. ALL FUSES SHALL BE CURRENT LIMITING CLASS RK5 OR CLASS L UNLESS OTHERWISE NOTED.
L. CONNECTIONS TO MECHANICAL EQUIPMENT SHALL BE MADE WITH A MINIMUM OF 24-IN. FLEXIBLE CONDUIT TO PREVENT SOUND AND VIBRATION TRANSMISSION.
M. CORE DRILL OPENINGS IN FLOOR SLABS/WALLS/FOUNDATIONS AS REQUIRED TO INSTALL CONDUITS.
N. PROVIDE THROUGH AND MEMBRANE FIRESTOPPING AT ALL PENETRATIONS THROUGH FIRE RATED CONSTRUCTION. REFER TO CODE COMPLIANCE PLANS FOR LOCATIONS OF FIRE RATED CONSTRUCTION. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS PERTAINING TO RATED FLOOR, CEILING AND PARTITION TYPES INCLUDING THE RELEVANT UL DESIGN NUMBER AND FIRE RATING IN HOURS. REFER TO SPECIFICATION SECTION 078400 FOR ADDITIONAL FIRESTOPPING REQUIREMENTS.
O. SEAL ALL PENETRATIONS THROUGH NON-FIRE RATED CONSTRUCTION WITH MORTAR.
P. COORDINATE LOCATION OF ELECTRIC WATER COOLER (EWC) DUPLEX RECEPTACLE WITH EQUIPMENT INSTALLER PRIOR TO ROUGH-IN.
Q. COORDINATE MOUNTING HEIGHT AND LOCATION OF EQUIPMENT INSTALLED ABOVE CASEWORK AND FURNITURE WITH APPROVED SHOP DRAWINGS AND CASEWORK INSTALLER PRIOR TO ROUGH-IN.
R. MAINTAIN NEC MANDATED MINIMUM WORKING AND DEDICATED EQUIPMENT SPACE AT ALL PANELBOARDS, SWITCHBOARDS AND MOTOR CONTROL CENTERS.
S. PROVIDE ADEQUATE SPACE AROUND EQUIPMENT THAT REQUIRES MAINTENANCE OR ADJUSTMENT.
T. PROVIDE PULLSTRING IN ALL RACEWAYS.
U. LABEL ALL JUNCTION BOX COVERS INDICATING THE PANEL NAME AND CIRCUIT NUMBER CONTAINED WITHIN.
V. PROVIDE CLEAR LABELS ON ALL RECEPTACLE AND LIGHT SWITCH COVERPLATES INDICATING THE PANEL NAME AND CIRCUIT NUMBER.

FIRE ALARM GENERAL NOTES

A. COMPLY WITH THE AUTHORITY HAVING JURISDICTION (AHJ), NFPA 72, THE NATIONAL ELECTRICAL CODE, THE AMERICANS WITH DISABILITIES ACT (ADA) AND ALL STATE, LOCAL AND MUNICIPAL ORDINANCES.
B. REFER TO FIRE ALARM PLANS FOR QUANTITIES AND LOCATIONS OF FIRE ALARM EQUIPMENT.
C. INSTALL FIRE ALARM CABLING IN EXPOSED LOCATIONS AND INACCESSIBLE AREAS WITHIN WALLS OR ABOVE CEILINGS IN GRC.
D. NEATLY BUNDLE, TIGHTLY WRAP AND SECURE FIRE ALARM WIRING TO BUILDING STRUCTURE ABOVE ACCESSIBLE CEILINGS USING APPROVED HANGERS AND INDEPENDENT OF OTHER SYSTEMS.
E. FIRE ALARM WIRING SHALL BE INSTALLED IN DEDICATED RACEWAYS, SEPARATE AND SEGREGATED FROM ALL OTHER WIRING SYSTEMS.
F. PAINT FIRE ALARM JUNCTION BOX COVERS RED.
G. IDENTIFY FIRE ALARM WIRING BY SYSTEM AND FUNCTION AT BOTH ENDS AND WITHIN CABINETS AND JUNCTION BOXES WITH PREMARKED, SELF-ADHESIVE, WRAPAROUND TYPE LABELS. WIRE DESIGNATIONS SHALL CORRESPOND WITH POINT-TO-POINT WIRING DIAGRAMS.
H. SYNCHRONIZE ALL VISUAL NOTIFICATION APPLIANCES.
I. TEST ALL FIRE ALARM WIRING FOR CONTINUITY AND VERIFY THAT ALL FIRE ALARM WIRING TESTS FREE FROM GROUNDS BETWEEN CONDUCTORS.
J. LABEL ALL FIRE ALARM EQUIPMENT WITH THE FINAL DEVICE ADDRESS.
K. T-TAPS ARE NOT PERMITTED.
L. FIRE ALARM EQUIPMENT SHALL BE UL LISTED COMPATIBLE WITH THE EXISTING FIRE ALARM SYSTEM.
M. PROVIDE ALL EQUIPMENT, ACCESSORIES AND PROGRAMMING REQUIRED TO MODIFY THE EXISTING FIRE ALARM SYSTEM.
N. INSTALL FIRE ALARM WIRING FOR SURFACE MOUNT EQUIPMENT IN METALLIC SURFACE RACEWAY SIMILAR TO WIREMOLD 700 (OR APPROVED EQUAL). PAINT SURFACE RACEWAY TO MATCH SURROUNDING SURFACES.
O. PROVIDE DECORATIVE SKIRTS TO CONCEAL SURFACE MOUNTED BACKBOXES IN FINISHED SPACES.
P. FIRE ALARM SYSTEM SHALL BE COMPLETELY OPERABLE AT ALL TIMES DURING CONSTRUCTION. IN THE EVENT A ZONE MUST BE DEACTIVATED, COORDINATE SHUTDOWN IN ADVANCE WITH THE OWNER AND AHJ AND PROVIDE FIRE WATCHERS IN ALL PUBLIC SPACES OF THE AFFECTED ZONE(S) AT ALL TIMES THE BUILDING IS OCCUPIED.
Q. FIRE ALARM SYSTEM SHALL BE FULLY OPERATIONAL AT THE END OF EACH WORK DAY.
R. HIRE AN INDEPENDENT, THIRD PARTY TO PRE-TEST THE FIRE ALARM SYSTEM AND VERIFY THE FIRE ALARM SYSTEM IS OPERATING PROPERLY AND IN ACCORDANCE WITH THE ORIGINAL DESIGN. ISSUE A REPORT DETAILING ALL FINDINGS OR DEFIENCIES TO OWNER.
S. PRE-TEST REPORT TO INCLUDE: POINTS LIST AND FLOOR PLANS INDICATING THE LOCATION OF ALL FIRE ALARM EQUIPMENT WITH ALL DESCRIPTORS (NAME AND NUMBER) AND DEVICE ADDRESSES.
T. INSTALL CEILING MOUNTED FIRE ALARM EQUIPMENT IN CENTER OF CEILING TILES.

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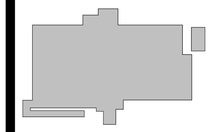

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REVISIONS

Rev No	Description	Date:

Client: VILLAGE OF OWEGO

Project Title: VILLLAGE OF OWEGO NEW BUILDING

Drawing Title: SCHEDULES, LEGENDS AND NOTES

Phase: 30 % SCHEMATIC

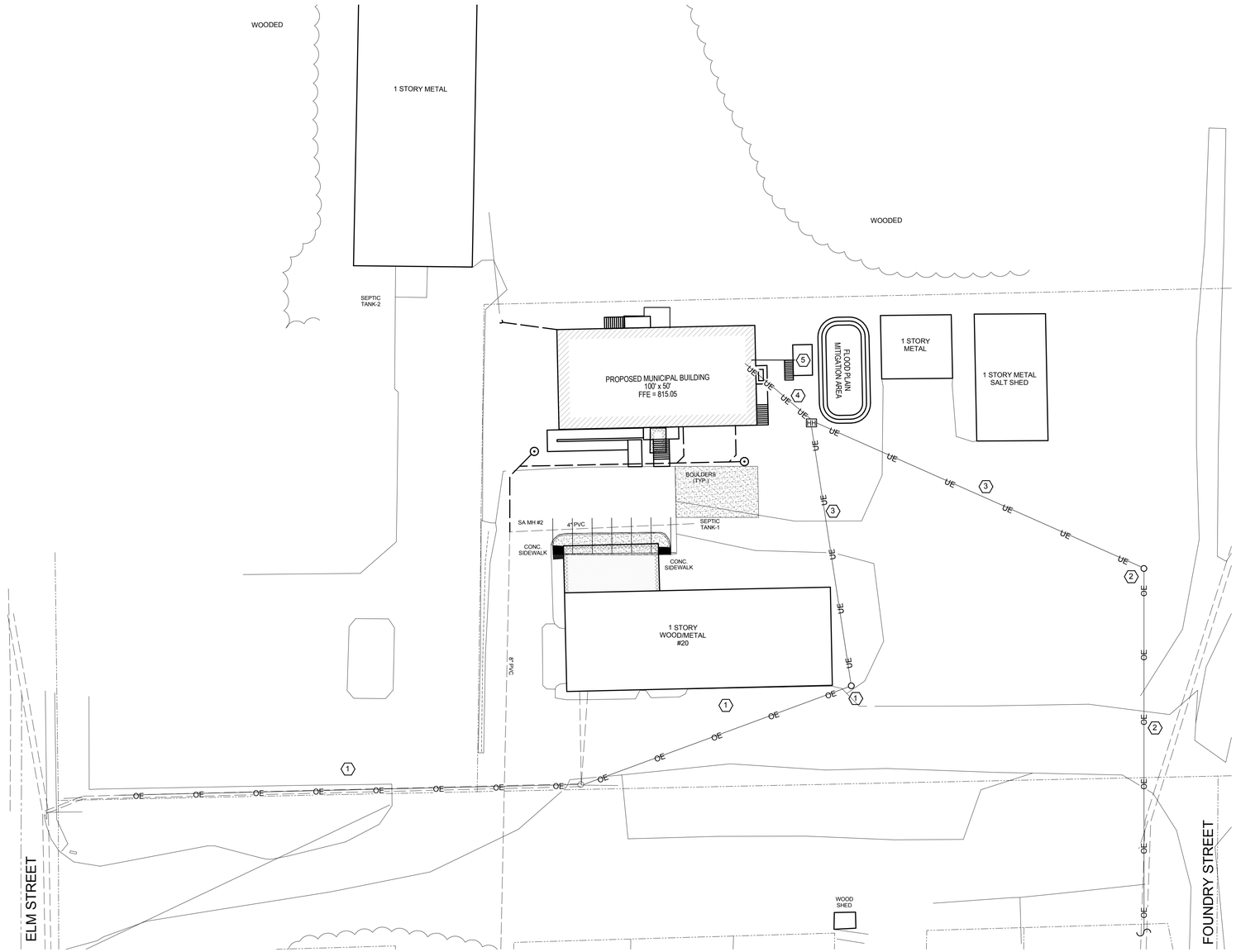
Drawn By:	Checked By:	Date:
JMK	SRB	02/28/19

Seal & Signature

DASNY Project No: 339920

Drawing Number: E-001

#	E-010 KEY NOTES
1	NYSEG TO PROVIDE 3 PHASE POWER FROM EXISTING POWER LINES TO PROPOSED UTILITY POLE. PROVIDE UTILITY POLE AT LOCATION SHOWN.
2	ALTERNATE ROUTE FOR NYSEG TO PROVIDE 3 PHASE POWER FROM EXISTING POWER LINES TO PROPOSED UTILITY POLE. PROVIDE UTILITY POLE AT LOCATION SHOWN.
3	PROVIDE (4)#3/0 AWG + (1)#6 GND IN 4" SCHEDULE 80 PVC CONDUIT, AND ROUTE UNDERGROUND FROM PROPOSED UTILITY POLE TO PROPOSED HANDHOLE AT LOCATION SHOWN. PROVIDE 4" CONDUIT WITH PULL STRING FOR TELE/DATA SERVICES BY OWNER.
4	FROM PROPOSED HANDHOLE, EXTEND SERVICE UNDER BUILDING FOUNDATION AND UP CONDUIT SLEEVES TO 200 AMP UTILITY METER SOCKET AS SHOWN.
5	PROVIDE 60KW DIESEL FUEL GENERATOR IN LOCATION SHOWN. REFER TO DETAIL 2/E-601 FOR GENERATOR WIRING INFORMATION. PROVIDE (4)#3/0 AWG + (1)#6 GND IN 2-1/2" CONDUIT DOWN THROUGH GENERATOR STRUCTURE FOUNDATION, UNDERGROUND, AND UP THROUGH CONDUIT SLEEVES IN BUILDING FOUNDATION TO AUTOMATIC TRANSFER SWITCH (ATS).



1 / E-010 **ELECTRICAL SITE PLAN**
SCALE: 1" = 30'-0"

0' 15' 30' 60'
SCALE: 1" = 30'-0"

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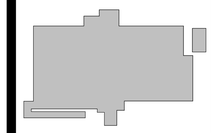

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VILLAGE OF OWEGO

Project Title
VILLAGE OF OWEGO NEW BUILDING

Drawing Title
ELECTRICAL SITE PLAN

Phase
30 % SCHEMATIC

Drawn By:	Checked By:	Date:
JMK	SRB	02/28/19

Seal & Signature

DASNY Project No: 339920

Drawing Number E-010

#	E-101 KEY NOTES
1	PROVIDE 200A FUSED SERVICE DISCONNECT IN UTILITY ROOM AS SHOWN. PROVIDE (4)#3/0 AWG + (1)#6 AWG GND IN 2-1/2" CONDUIT FROM ATS TO PANEL MDP.
2	PROVIDE 208Y/120V, 3 PHASE, 4 WIRE PANEL 'MDP' AND MOUNT ON WALL IN UTILITY ROOM IN LOCATION SHOWN.
3	PROVIDE (4)#3/0 AWG + (1)#6 GND IN 2-1/2" CONDUIT UNDERGROUND FROM 60KW DIESEL FUEL GENERATOR. ROUTE CONDUIT AND FEEDERS UP THROUGH CONDUIT SLEEVES IN BUILDING FOUNDATION TO ATS IN LOCATION SHOWN. REFER TO SITE PLAN E-010 FOR GENERATOR LOCATION. REFER TO DETAIL 2/E-601 FOR GENERATOR WIRING INFORMATION.

CLERK STORAGE 9

CONFERENCE 10

COMMUNITY 11

DPW SUPERV 18

CODE OFFICER 19

DPW ADMIN 16

UTILITY 17

CLERK STAFF 8

HALL 3

LOBBY 2

HALL 15

CLERK 7

SECURE STORAGE 6

MAYOR 5

MENS 4

VESTIBULE 1

WOMEN'S 12

BREAK ROOM 13

JANITOR'S CLOSET 14

WH-1

VRFC-11

2 1 200A FUSED SERVICE DISCONNECT

METER SOCKET

3 TO 60KW GENERATOR SEE PLAN E-010

MDP

3 ATS

FROM UTILITY POLE, SEE SHEET E-010

1 / E-101 **FIRST FLOOR POWER PLAN**

SCALE: 1/4" = 1'-0"

NORTH

0' 1' 2' 4' 8'

SCALE: 1/4" = 1'-0"

NEW YORK STATE OF OPPORTUNITY. DASNY

515 Broadway, Albany, New Yrok 12207-2964
One Penn Plaza, 52 Floor, NY, NY 10119-0098
539 Franklin Stree, Buffalo, NY 14202-1109
WWW.DASNY.ORG

Consultants:

DELTA ENGINEERS, ARCHITECTS & LAND SURVEYORS
860 HOOPER ROAD
ENDWELL, NY, 13760
607-231-6600
2016.194.013

Governor's Office of Storm Recovery

VILLAGE OF OWEGO
Coolest Small Town – 2009

Project Key

NORTH

REVISIONS

Rev No	Description	Date:

Client: VILLAGE OF OWEGO

Project Title: VILLLAGE OF OWEGO NEW BUILDING

Drawing Title: FIRST FLOOR POWER PLAN

Phase: 30 % SCHEMATIC

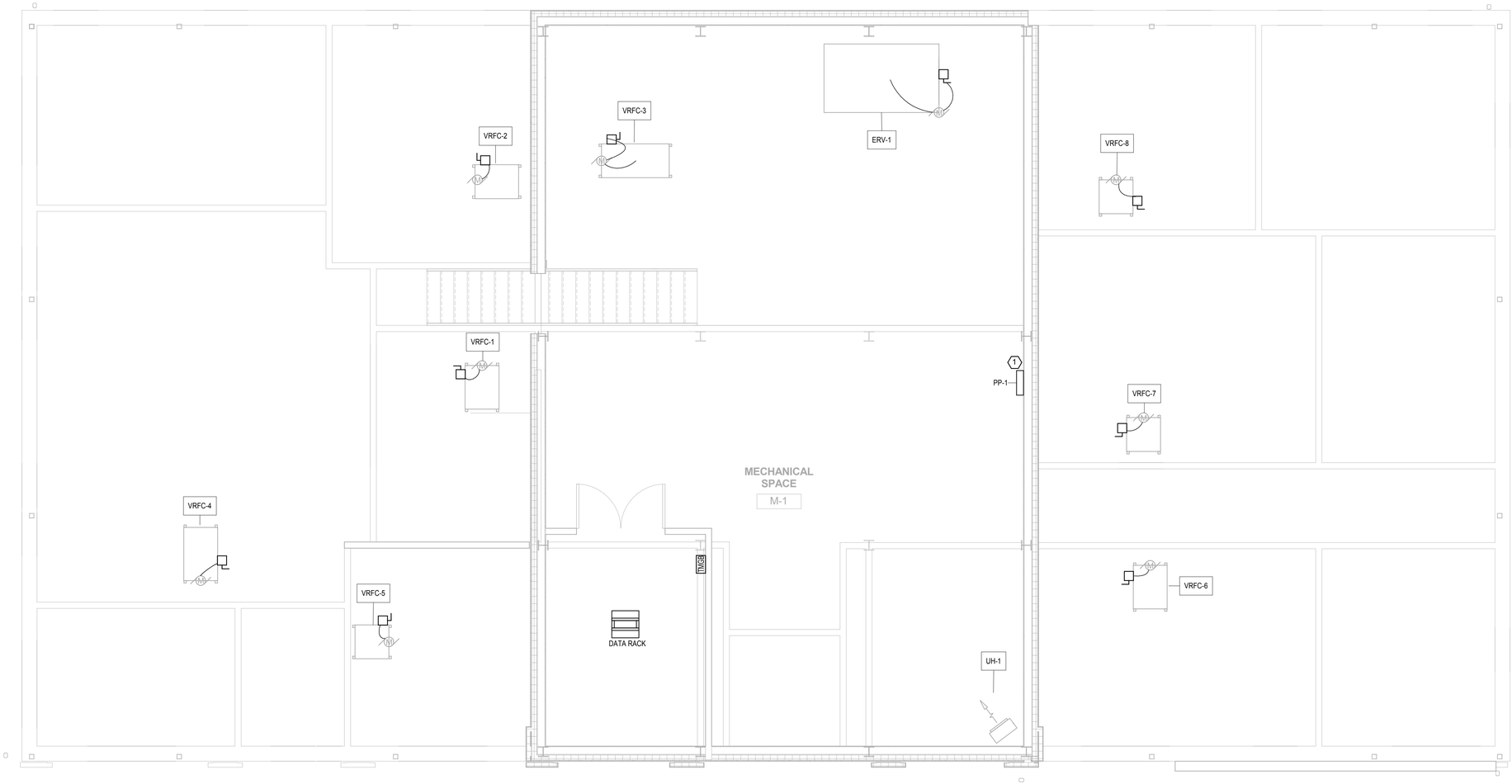
Drawn By:	Checked By:	Date:
JMK	SRB	02/28/19

Seal & Signature

DASNY Project No: 339920

Drawing Number: E-101

#	E-102 KEY NOTES
1	PROVIDE 100A MCB, 208Y/120V PANEL PP-1 AND MOUNT ON WALL IN SECOND FLOOR MECHANICAL SPACE AS SHOWN. PROVIDE SUBFEED TO PANEL FROM MDP.



1 / E-102 **SECOND FLOOR MECHANICAL SPACE POWER PLAN**

SCALE: 1/4" = 1'-0"

NORTH

0' 1' 2' 4' 8'

SCALE: 1/4" = 1'-0"

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607-231-6600
2016.194.013

Governor's Office of Storm Recovery

VILLAGE OF OWEGO
Coolest Small Town – 2009

Project Key

NORTH

REVISIONS

Rev No	Description	Date:

Client

VILLAGE OF OWEGO

Project Title

VILLLAGE OF OWEGO NEW BUILDING

Drawing Title

SECOND FLOOR MECHANICAL SPACE POWER PLAN

Phase

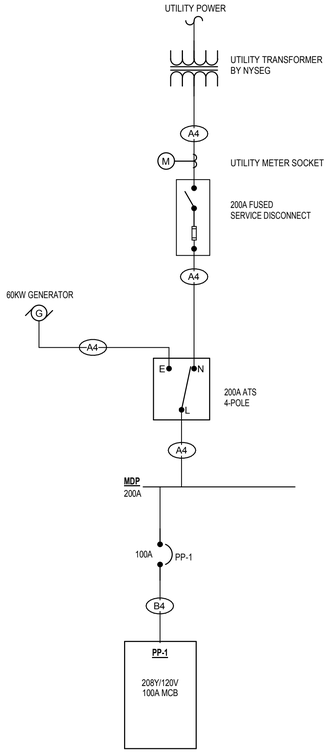
30 % SCHEMATIC

Drawn By:	Checked By:	Date:
JMK	SRB	02/28/19

Seal & Signature

DASNY Project No: 339920

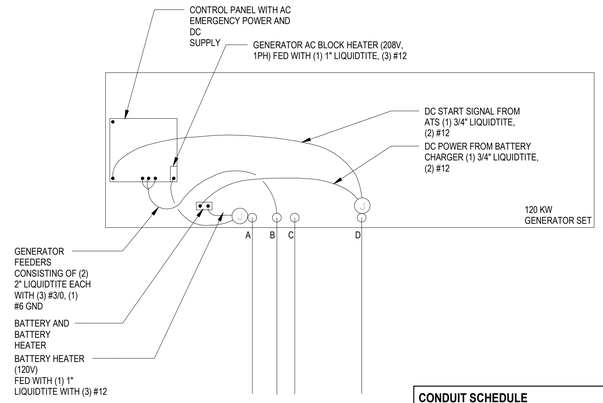
Drawing Number E-102



FEEDER SCHEDULE				
TYPE	Size	PARALLEL	WIRE	CONDUIT
A4	200A	1	(4)#3/0 AWG, (1)#6 GND	2-1/2"
B4	100A	1	(4)#2 AWG, (1)#8 GND	1-1/2"

1 E-601 ELECTRICAL ONE-LINE DIAGRAM

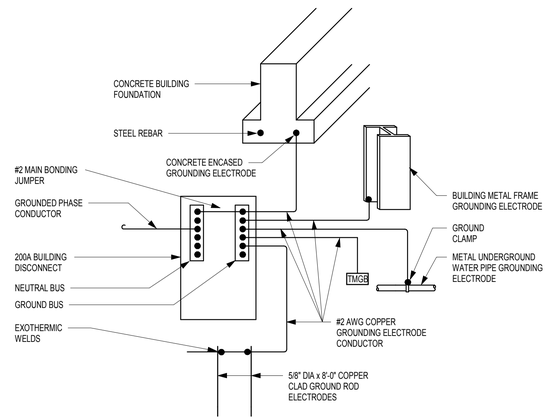
SCALE: N.T.S.



CONDUIT SCHEDULE		
CONDUIT	SIZE	CONDUCTORS
A	1"	(3)#12
B	2-1/2"	(4)#3/0 AWG, (1)#6 GND.
C	2-1/2"	SPARE
D	1"	(3)#8

2 E-601 GENERATOR WIRING DETAIL

SCALE: N.T.S.



3 E-601 BUILDING GROUNDING DETAIL

SCALE: N.T.S.

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Consultants:

DELTA ENGINEERS,
ARCHITECTS & LAND
SURVEYORS
860 HOOPER ROAD
ENDWELL, NY, 13760
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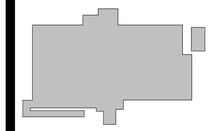
Governor's Office of Storm Recovery

VILLAGE OF OWEGO
Coolest Small Town – 2009

Project Key



NORTH

REVISIONS

Rev No	Description	Date:

Client

VILLAGE OF OWEGO

Project Title

VILLLAGE OF OWEGO NEW BUILDING

Drawing Title

ELECTRICAL POWER ONE-LINE

Phase

30 % SCHEMATIC

Drawn By:	Checked By:	Date:
JMK	SRB	02/28/19

Seal & Signature

DASNY Project No:
339920

Drawing Number

E-601

PANEL MDP

LOCATION: UTILITY 17 | **VOLTS:** 208Y/120V | **A.I.C. RATING:** TBD
FED FROM: | **PHASES:** 3 | **MAINS TYPE:** MCB
MOUNTING: Surface | **WIRES:** 4 | **MAINS RATING:** 200A
ENCLOSURE: Type 1 | **OPTIONS:**

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A	B	C	POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1										2
3										4
5										6
7										8
9										10
11										12
13										14
15										16
17										18
19										20
21										22
23										24
25										26
27										28
29										30
31										32
33										34
35										36
37										38
39										40
41										42
43										44
45										46
47										48
49										50
51										52
53										54
		TOTAL LOAD:		0 W	0 W	0 W				
		TOTAL AMPS:		0 A	0 A	0 A				

LOADS	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
				TOTAL CONNECTED LOAD:	0 W
				TOTAL ESTIMATED...	0 W
				TOTAL CONNECTED:	0 A
				TOTAL ESTIMATED...	0 A

PANEL PP-1

LOCATION: MECHANICAL SPACE... | **VOLTS:** 208Y/120V | **A.I.C. RATING:** TBD
FED FROM: MDP | **PHASES:** 3 | **MAINS TYPE:** MCB
MOUNTING: Surface | **WIRES:** 4 | **MAINS RATING:** 100A
ENCLOSURE: Type 1 | **OPTIONS:**

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A	B	C	POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1										2
3										4
5										6
7										8
9										10
11										12
13										14
15										16
17										18
19										20
21										22
23										24
25										26
27										28
29										30
		TOTAL LOAD:		0 W	0 W	0 W				
		TOTAL AMPS:		0 A	0 A	0 A				

LOADS	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
				TOTAL CONNECTED LOAD:	0 W
				TOTAL ESTIMATED...	0 W
				TOTAL CONNECTED:	0 A
				TOTAL ESTIMATED...	0 A

EQUIPMENT CONNECTION SCHEDULE

MOTOR NO.	DESCRIPTION	VOLTAGE
ERV-1	ENERGY RECOVERY VENTILATOR	208 V
UH-1	UNIT HEATER	208 V
VRFC-1	VRF HEAT PUMP	208 V
VRFC-2	VRF HEAT PUMP	208 V
VRFC-3	VRF HEAT PUMP	208 V
VRFC-4	VRF HEAT PUMP	208 V
VRFC-5	VRF HEAT PUMP	208 V
VRFC-6	VRF HEAT PUMP	208 V
VRFC-7	VRF HEAT PUMP	208 V
VRFC-8	VRF HEAT PUMP	208 V
VRFC-11	VRF HEAT PUMP	208 V

NOTES:

1. MAKE CONNECTION TO MOTOR.
2. INSTALL MOTOR STARTER FURNISHED BY OTHERS.
3. MAKE CONNECTIONS TO CONTROLS.
4. FIELD CONTROL WIRING BY OTHERS.
5. RUN FEED THRU CONTACTOR. CONTROL FROM FAN SHUTDOWN RELAY.
6. PROVIDE DUCT SMOKE DETECTOR.
7. PROVIDE GFI RECEPTACLE AT UNIT. CIRCUIT TO NEAREST 120V CIRCUIT.
8. WIRE THRU T-STAT THEN TO MOTOR.

A. START-STOP IN COVER.
B. HAND-OFF-AUTO IN COVER.
C. PILOT LIGHT IN COVER.
D. AUXILIARY CONTACTS.
E. CONTROL CIRCUIT TRANSFORMER.
F. TWO-SPEED MOTOR CONTROLLER.
G. KEY OPERATED - UP/DOWN OR OPEN/CLOSE.

LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	DIMENSIONS	FINISH	MANUFACTURER	CATALOG NO.	LAMPING QTY	LAMPING TYPE	WATTAGE	VOLTAGE

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Consultants:

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860 HOOPER ROAD
ENDWELL, NY, 13760
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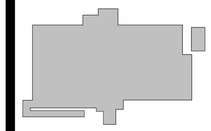
2016.194.013

Governor's Office of Storm Recovery

VILLAGE OF OWEGO
Coolest Small Town – 2009

Project Key



NORTH

REVISIONS

Rev No	Description	Date:

Client
VILLAGE OF OWEGO

Project Title
VILLLAGE OF OWEGO NEW BUILDING

Drawing Title
SCHEDULES

Phase
30 % SCHEMATIC

Drawn By:	Checked By:	Date:
JMK	SRB	02/28/19

Seal & Signature

DASNY Project No:
339920

Drawing Number
E-602

Appendix C

United States Department of the Interior

FISH AND WILDLIFE SERVICE
New York Ecological Services Field Office
3817 Luker Road
Cortland, NY 13045-9385
Phone: (607) 753-9334 Fax: (607) 753-9699
http://www.fws.gov/northeast/nyfo/es/section7.htm

In Reply Refer To: March 27, 2019
Consultation Code: 05E1NY00-2019-SLI-1487
Event Code: 05E1NY00-2019-E-04564
Project Name: Village of Owego Municipal Facility Project

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (ESA) of 1973, as amended (16 U.S.C. 1531 *et seq.*). This list can also be used to determine whether listed species may be present for projects without federal agency involvement. New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list.

Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the ESA, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC site at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list. If listed, proposed, or candidate species were identified as potentially occurring in the project area, coordination with our office is encouraged. Information on the steps involved with assessing potential impacts from projects can be found at: http://www.fws.gov/northeast/nyfo/es/section7.htm

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/

eagle_guidance.html). Additionally, wind energy projects should follow the Services wind energy guidelines (http://www.fws.gov/windenergy/) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm; http://www.towerkill.com; and http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the ESA. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

New York Ecological Services Field Office
3817 Luker Road
Cortland, NY 13045-9385
(607) 753-9334

Project Summary

Consultation Code: 05E1NY00-2019-SLI-1487

Event Code: 05E1NY00-2019-E-04564

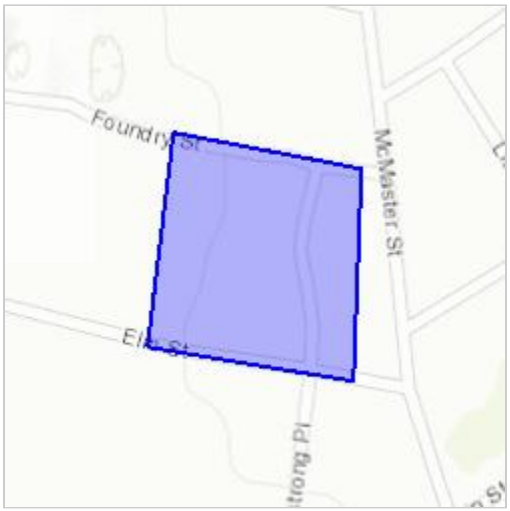
Project Name: Village of Owego Municipal Facility Project

Project Type: Federal Grant / Loan Related

Project Description: Construction of a new municipal building

Project Location:

Approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/place/42.103709120139N76.26864278581301W



Counties: Tioga, NY

Endangered Species Act Species

There is a total of 1 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries[1], as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

---

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

Mammals

NAME	STATUS
Northern Long-eared Bat *Myotis septentrionalis* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9045	Threatened

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

Appendix D

Last login March 18, 2019 08:23 AM MDT

IPaC resource list

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

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

Project information

NAME

Village of Owego Municipal Facility Project

LOCATION

Tioga County, New York

DESCRIPTION

Construction of a new municipal building

Local office

New York Ecological Services Field Office

(607) 753-9334

(607) 753-9699

3817 Luker Road
Cortland, NY 13045-9385

http://www.fws.gov/northeast/nyfo/es/section7.htm

Endangered species

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

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

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

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

1. Log in to IPaC.
2. Go to your My Projects list.
3. Click PROJECT HOME for this project.
4. Click REQUEST SPECIES LIST.

Listed species

[1] and their critical habitats are managed by the Ecological Services Program of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries[2]).

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

1. Species listed under the Endangered Species Act are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the listing status page for more information.
2. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

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

Mammals

NAME	STATUS
Northern Long-eared Bat Myotis septentrionalis No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/9045	Threatened

Critical habitats

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

THERE ARE NO CRITICAL HABITATS AT THIS LOCATION.

Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act [1] and the Bald and Golden Eagle Protection Act[2].

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

1. The Migratory Birds Treaty Act of 1918.
2. The Bald and Golden Eagle Protection Act of 1940.

Additional information can be found using the following links:

- Birds of Conservation Concern http://www.fws.gov/birds/management/managed-species/birds-of-conservation-concern.php
- Measures for avoiding and minimizing impacts to birds http://www.fws.gov/birds/management/project-assessment-tools-and-guidance/conservation-measures.php
- Nationwide conservation measures for birds

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

available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found below.

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

NAME	BREEDING SEASON (IF A BREEDING SEASON IS INDICATED FOR A BIRD ON YOUR LIST, THE BIRD MAY BREED IN YOUR PROJECT AREA SOMETIME WITHIN THE TIMEFRAME SPECIFIED, WHICH IS A VERY LIBERAL ESTIMATE OF THE DATES INSIDE WHICH THE BIRD BREEDS ACROSS ITS ENTIRE RANGE. "BREEDS ELSEWHERE" INDICATES THAT THE BIRD DOES NOT LIKELY BREED IN YOUR PROJECT AREA.)
Bald Eagle *Haliaeetus leucocephalus* This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1626	Breeds Sep 1 to Aug 31
Black-billed Cuckoo *Coccyzus erythropthalmus* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9399	Breeds May 15 to Oct 10
Black-capped Chickadee *Poecile atricapillus practicus* This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA	Breeds Apr 10 to Jul 31
Bobolink *Dolichonyx oryzivorus* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 20 to Jul 31
Golden Eagle *Aquila chrysaetos* This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1680	Breeds elsewhere

Prairie Warbler Dendroica discolor This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 1 to Jul 31
Rusty Blackbird Euphagus carolinus This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds elsewhere
Wood Thrush Hylocichla mustelina This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 10 to Aug 31
Yellow-bellied Sapsucker sphyrapicus varius This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/8792	Breeds May 10 to Jul 15

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

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

What does IPaC use to generate the migratory birds potentially occurring in my specified location?

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

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

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the E-bird Explore Data Tool.

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

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

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

How do I know if a bird is breeding, wintering, migrating or present year-round in my project area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may refer to the following resources: The Cornell Lab of Ornithology All About Birds Bird Guide, or (if you are unsuccessful in locating the bird of interest there), the Cornell Lab of Ornithology Neotropical Birds guide. If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

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

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

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

Details about birds that are potentially affected by offshore projects

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

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

What if I have eagles on my list?

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

Proper Interpretation and Use of Your Migratory Bird Report

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

means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

Facilities

National Wildlife Refuge lands

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

THERE ARE NO REFUGE LANDS AT THIS LOCATION.

Fish hatcheries

THERE ARE NO FISH HATCHERIES AT THIS LOCATION.

Wetlands in the National Wetlands Inventory

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

For more information please contact the Regulatory Program of the local U.S. Army Corps of Engineers District.

THERE ARE NO KNOWN WETLANDS AT THIS LOCATION.

Data limitations

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

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

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

Data exclusions

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

Data precautions

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

Appendix E

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Environmental Resource Mapper

Base Map: Satellite with Labels | Using this map

- Search
- Tools
- **Layers and Legend**

All Layers

- Unique Geological Features
- Waterbody Classifications for Rivers/Streams
- Waterbody Classifications for Lakes
- State Regulated Freshwater Wetlands
- State Regulated Wetland Checkzone
- Significant Natural Communities
- Natural Communities Near This Location
- Rare Plants or Animals

- Other Wetland Layers
- Reference Layers
- Tell Me More...
- Need A Permit?
- Contacts

Environmental Resource Mapper

The coordinates of the point you clicked on are:

UTM 18	**Easting:**	395091.403	**Northing:**	4662090.174
Longitude/Latitude	**Longitude:**	-76.269	**Latitude:**	42.104

The approximate address of the point you clicked on is:
20 Elm St, Owego, New York, 13827

County: Tioga
Town: Owego
Village: Owego
USGS Quad: OWEGO

DEC Region

Region 7:
(Central New York) Broome, Cayuga, Chenango, Cortland, Madison, Onondaga, Oswego, Tioga and Tompkins counties.
For more information visit **http://www.dec.ny.gov/about/615.html**.

Rare Plants and Rare Animals

This location is in the vicinity of Rare Freshwater Mussels – Not Listed by NYS

This location is in the vicinity of Rare Dragonflies and Damselflies – Not Listed by NYS

If your project or action is within or near an area with a rare animal, a permit may be required if the species is listed as endangered or threatened and the department determines the action may be harmful to the species or its habitat.

If your project or action is within or near an area with rare plants and/or significant natural communities, the environmental impacts may need to be addressed.

The presence of a unique geological feature or landform near a project, unto itself, does not trigger a requirement for a NYS DEC permit. Readers are advised, however, that there is the chance that a unique feature may also show in another data layer (ie. a wetland) and thus be subject to permit jurisdiction.

Please refer to the "Need a Permit?" tab for permit information or other authorizations regarding these natural resources.

Disclaimer: If you are considering a project or action in, or near, a wetland or a stream, a NYS DEC permit may be required. The Environmental Resources Mapper does not show all natural resources which are regulated by NYS DEC, and for which permits from NYS DEC are required. For example, Regulated Tidal Wetlands, and Wild, Scenic, and Recreational Rivers, are currently not included on the maps.

EAF Mapper Summary Report

Monday, March 18, 2019 4:10 PM

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

B.i.i [Coastal or Waterfront Area]	No
B.i.ii [Local Waterfront Revitalization Area]	No
C.2.b. [Special Planning District]	Yes - Digital mapping data are not available for all Special Planning Districts. Refer to EAF Workbook.
C.2.b. [Special Planning District - Name]	NYS Major Basins:Upper Susquehanna, Remediaton Sites:754012
E.1.h [DEC Spills or Remediation Site - Potential Contamination History]	Yes - Digital mapping data for Spills Incidents are not available for this location. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Listed]	Yes
E.1.h.i [DEC Spills or Remediation Site - Environmental Site Remediation Database]	Yes
E.1.h.i [DEC Spills or Remediation Site - DEC ID Number]	754012
E.1.h.iii [Within 2,000' of DEC Remediation Site]	Yes
E.1.h.iii [Within 2,000' of DEC Remediation Site - DEC ID]	754015, 754012
E.2.g [Unique Geologic Features]	No
E.2.h.i [Surface Water Features]	No
E.2.h.ii [Surface Water Features]	No
E.2.h.iii [Surface Water Features]	No
E.2.h.v [Impaired Water Bodies]	No
E.2.i. [Floodway]	No
E.2.j. [100 Year Floodplain]	Yes
E.2.k. [500 Year Floodplain]	No
E.2.l. [Aquifers]	Yes

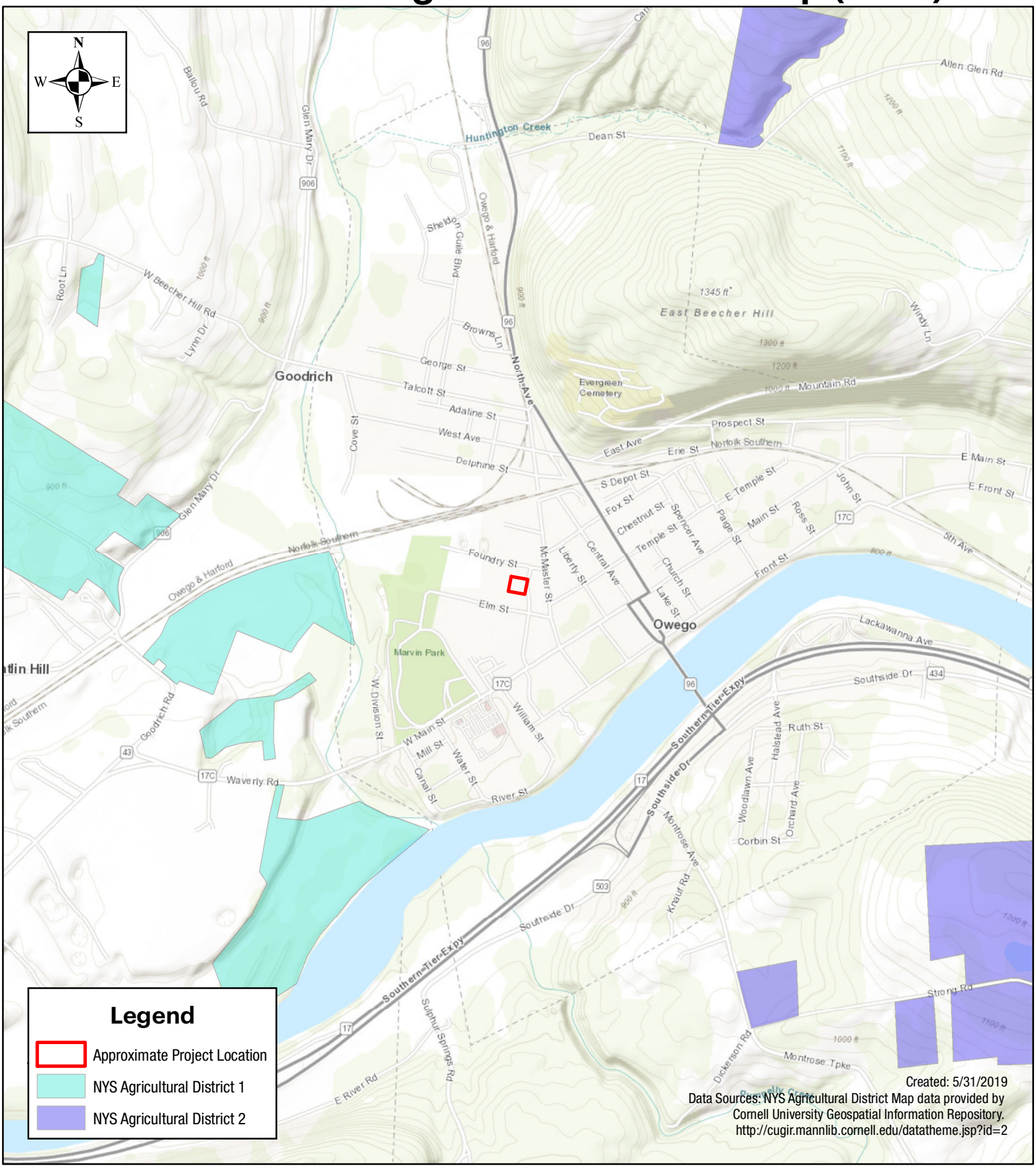
E.2.l. [Aquifer Names]	Principal Aquifer, Primary Aquifer, Sole Source Aquifer Names:Clinton Street Ballpark SSA
E.2.n. [Natural Communities]	No
E.2.o. [Endangered or Threatened Species]	No
E.2.p. [Rare Plants or Animals]	No
E.3.a. [Agricultural District]	No
E.3.c. [National Natural Landmark]	No
E.3.d [Critical Environmental Area]	No
E.3.e. [National or State Register of Historic Places or State Eligible Sites]	Yes - Digital mapping data for archaeological site boundaries are not available. Refer to EAF Workbook.
E.3.e.ii [National or State Register of Historic Places or State Eligible Sites - Name]	
E.3.f. [Archeological Sites]	Yes
E.3.i. [Designated River Corridor]	No

Attachment 7

Agricultural and NCRS Soils Documentation

New York State Agricultural Districts Map
USDA NRCS Soil Resource Map
USDA NRCS Small Commercial Buildings Report
USDA NRCS Farmland Classification Report

New York State Agricultural District Map (2018)



Tectonic

1:20,000

0 1,000 2,000 4,000 Feet

Village of Owego Municipal Facility Project
20 Elm Street
Village of Owego
Town of Owego
Tioga County, New York

United States Department of Agriculture

NRCS

Natural Resources Conservation Service

A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Tioga County, New York

March 29, 2019

Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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Contents

How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Custom Soil Resource Report
Soil Map

Map Scale: 1:655 if printed on A landscape (11" x 8.5") sheet.

N

Meters
0 5 10 20 30

Feet
0 30 60 120 180

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 18N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:31,700.

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

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

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

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

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

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

Soil Survey Area: Tioga County, New York
Survey Area Data: Version 15, Sep 3, 2018

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

Date(s) aerial images were photographed: Aug 29, 2012—Nov 6, 2016

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

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Hsn	Howard gravelly silt loam, 0 to 3 percent slopes	1.3	100.0%
Totals for Area of Interest		**1.3**	**100.0%**

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Tioga County, New York

Hsn—Howard gravelly silt loam, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 9xtq
Mean annual precipitation: 35 to 38 inches
Mean annual air temperature: 43 to 48 degrees F
Frost-free period: 100 to 170 days
Farmland classification: All areas are prime farmland

Map Unit Composition

Howard and similar soils: 80 percent
Minor components: 20 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Howard

Setting

Landform: Valley trains, terraces
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Tread
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Gravelly loamy glaciofluvial deposits over sandy and gravelly glaciofluvial deposits, containing significant amounts of limestone

Typical profile

H1 - 0 to 8 inches: gravelly silt loam
H2 - 8 to 20 inches: silt loam
H3 - 20 to 36 inches: gravelly silt loam
H4 - 36 to 60 inches: Error

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 5.95 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 15 percent
Available water storage in profile: Low (about 4.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 2s
Hydrologic Soil Group: A
Hydric soil rating: No

Minor Components

Alton

Percent of map unit: 5 percent
Hydric soil rating: No

Chenango

Percent of map unit: 5 percent
Hydric soil rating: No

Valois

Percent of map unit: 5 percent
Hydric soil rating: No

Braceville

Percent of map unit: 5 percent
Hydric soil rating: No

Soil Information for All Uses

Suitabilities and Limitations for Use

The Suitabilities and Limitations for Use section includes various soil interpretations displayed as thematic maps with a summary table for the soil map units in the selected area of interest. A single value or rating for each map unit is generated by aggregating the interpretive ratings of individual map unit components. This aggregation process is defined for each interpretation.

Building Site Development

Building site development interpretations are designed to be used as tools for evaluating soil suitability and identifying soil limitations for various construction purposes. As part of the interpretation process, the rating applies to each soil in its described condition and does not consider present land use. Example interpretations can include corrosion of concrete and steel, shallow excavations, dwellings with and without basements, small commercial buildings, local roads and streets, and lawns and landscaping.

Small Commercial Buildings

Small commercial buildings are structures that are less than three stories high and do not have basements. The foundation is assumed to consist of spread footings of reinforced concrete built on undisturbed soil at a depth of 2 feet or at the depth of maximum frost penetration, whichever is deeper. The ratings are based on the soil properties that affect the capacity of the soil to support a load without movement and on the properties that affect excavation and construction costs. The properties that affect the load-supporting capacity include depth to a water table, ponding, flooding, subsidence, linear extensibility (shrink-swell potential), and compressibility (which is inferred from the Unified classification of the soil). The properties that affect the ease and amount of excavation include flooding, depth to a water table, ponding, slope, depth to bedrock or a cemented pan, hardness of bedrock or a cemented pan, and the amount and size of rock fragments.

The ratings are both verbal and numerical. Rating class terms indicate the extent to which the soils are limited by all of the soil features that affect the specified use. "Not limited" indicates that the soil has features that are very favorable for the specified use. Good performance and very low maintenance can be expected.

"Somewhat limited" indicates that the soil has features that are moderately favorable for the specified use. The limitations can be overcome or minimized by special planning, design, or installation. Fair performance and moderate maintenance can be expected. "Very limited" indicates that the soil has one or more features that are unfavorable for the specified use. The limitations generally cannot be overcome without major soil reclamation, special design, or expensive installation procedures. Poor performance and high maintenance can be expected.

Numerical ratings indicate the severity of individual limitations. The ratings are shown as decimal fractions ranging from 0.01 to 1.00. They indicate gradations between the point at which a soil feature has the greatest negative impact on the use (1.00) and the point at which the soil feature is not a limitation (0.00).

The map unit components listed for each map unit in the accompanying Summary by Map Unit table in Web Soil Survey or the Aggregation Report in Soil Data Viewer are determined by the aggregation method chosen. An aggregated rating class is shown for each map unit. The components listed for each map unit are only those that have the same rating class as listed for the map unit. The percent composition of each component in a particular map unit is presented to help the user better understand the percentage of each map unit that has the rating presented.

Other components with different ratings may be present in each map unit. The ratings for all components, regardless of the map unit aggregated rating, can be viewed by generating the equivalent report from the Soil Reports tab in Web Soil Survey or from the Soil Data Mart site. Onsite investigation may be needed to validate these interpretations and to confirm the identity of the soil on a given site.


76° 16' 9" W
76° 16' 3" W
42° 6' 15" N
42° 6' 12" N
395050
395060
395070
395080
395090
395100
395110
395120
395130
395140
395150
395160
395170
395180
4662120
4662110
4662100
4662090
4662080
4662070
4662060
4662050
4662040
4662030
Hsn
Soil Map may not be valid at this scale.
N
Map Scale: 1:655 if printed on A landscape (11" x 8.5") sheet.
Meters
0 5 10 20 30
Feet
0 30 60 120 180
Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 18N WGS84

MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

Soils

Soil Rating Polygons

- Very limited
- Somewhat limited
- Not limited
- Not rated or not available

Soil Rating Lines

- Very limited
- Somewhat limited
- Not limited
- Not rated or not available

Soil Rating Points

- Very limited
- Somewhat limited
- Not limited
- Not rated or not available

Water Features

- Streams and Canals

Transportation

- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background

- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:31,700.

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

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

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

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

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

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

Soil Survey Area: Tioga County, New York
Survey Area Data: Version 15, Sep 3, 2018

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

Date(s) aerial images were photographed: Aug 29, 2012—Nov 6, 2016

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

Tables—Small Commercial Buildings

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
Hsn	Howard gravelly silt loam, 0 to 3 percent slopes	Not limited	Howard (80%)		1.3	100.0%
Totals for Area of Interest					**1.3**	**100.0%**

Rating	Acres in AOI	Percent of AOI
Not limited	1.3	100.0%
Totals for Area of Interest	**1.3**	**100.0%**

Rating Options—Small Commercial Buildings

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

Land Classifications

Land Classifications are specified land use and management groupings that are assigned to soil areas because combinations of soil have similar behavior for specified practices. Most are based on soil properties and other factors that directly influence the specific use of the soil. Example classifications include ecological site classification, farmland classification, irrigated and nonirrigated land capability classification, and hydric rating.

Farmland Classification

Farmland classification identifies map units as prime farmland, farmland of statewide importance, farmland of local importance, or unique farmland. It identifies the location and extent of the soils that are best suited to food, feed, fiber, forage, and oilseed crops. NRCS policy and procedures on prime and unique farmlands are published in the "Federal Register," Vol. 43, No. 21, January 31, 1978.

Map Scale: 1:655 if printed on A landscape (11" x 8.5") sheet.

N

Meters
0 5 10 20 30

Feet
0 30 60 120 180

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 18N WGS84

MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Rating Polygons

- Not prime farmland
- All areas are prime farmland
- Prime farmland if drained
- Prime farmland if protected from flooding or not frequently flooded during the growing season
- Prime farmland if irrigated
- Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season
- Prime farmland if irrigated and drained
- Prime farmland if irrigated and either protected from flooding or not frequently flooded during the growing season
- Prime farmland if subsoiled, completely removing the root inhibiting soil layer
- Prime farmland if irrigated and the product of I (soil erodibility) x C (climate factor) does not exceed 60
- Prime farmland if irrigated and reclaimed of excess salts and sodium
- Farmland of statewide importance
- Farmland of local importance
- Farmland of unique importance
- Not rated or not available

Soil Rating Lines

- Not prime farmland
- All areas are prime farmland
- Prime farmland if drained
- Prime farmland if protected from flooding or not frequently flooded during the growing season
- Prime farmland if irrigated
- Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season
- Prime farmland if irrigated and drained
- Prime farmland if irrigated and either protected from flooding or not frequently flooded during the growing season
- Prime farmland if subsoiled, completely removing the root inhibiting soil layer
- Prime farmland if irrigated and the product of I (soil erodibility) x C (climate factor) does not exceed 60
- Prime farmland if irrigated and reclaimed of excess salts and sodium
- Farmland of statewide importance
- Farmland of local importance
- Farmland of unique importance
- Not rated or not available

Soil Rating Points

- Not prime farmland
- All areas are prime farmland
- Prime farmland if drained
- Prime farmland if protected from flooding or not frequently flooded during the growing season
- Prime farmland if irrigated
- Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season
- Prime farmland if irrigated and drained
- Prime farmland if irrigated and either protected from flooding or not frequently flooded during the growing season
- Prime farmland if subsoiled, completely removing the root inhibiting soil layer
- Prime farmland if irrigated and the product of I (soil erodibility) x C (climate factor) does not exceed 60
- Prime farmland if irrigated and reclaimed of excess salts and sodium
- Farmland of statewide importance
- Farmland of local importance
- Farmland of unique importance
- Not rated or not available

Water Features

MAP INFORMATION

Streams and Canals

Transportation


Rails


Interstate Highways


US Routes

Major Roads

Local Roads

Background


Aerial Photography

The soil surveys that comprise your AOI were mapped at 1:31,700.

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

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

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

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

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

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

Soil Survey Area: Tioga County, New York
Survey Area Data: Version 15, Sep 3, 2018

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

Date(s) aerial images were photographed: Aug 29, 2012—Nov 6, 2016

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

Table—Farmland Classification

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
Hsn	Howard gravelly silt loam, 0 to 3 percent slopes	All areas are prime farmland	1.3	100.0%
Totals for Area of Interest			**1.3**	**100.0%**

Rating Options—Farmland Classification

Aggregation Method: No Aggregation Necessary

Tie-break Rule: Lower

References

American Association of State Highway and Transportation Officials (AASHTO). 2004. Standard specifications for transportation materials and methods of sampling and testing. 24th edition.

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Attachment 8

SHPO Documentation

SHPO Response

NEW YORK STATE OF OPPORTUNITY.
Parks, Recreation, and Historic Preservation

ANDREW M. CUOMO
Governor

ERIK KULLESEID
Commissioner

May 30, 2019

Ms. Alicia Shultz
Senior Environmental Scientist
38-40 State St.,408N Hampton Plaza
Albany, NY 12207

Re: GOSR
Village of Owego Municipal Facility Project
20 Elm St, Owego, NY
19PR03627

Dear Ms. Shultz:

Thank you for requesting the comments of the State Historic Preservation Office (SHPO). We have reviewed the project in accordance with Section 106 of the National Historic Preservation Act of 1966. These comments are those of the SHPO and relate only to Historic/Cultural resources. They do not include potential environmental impacts to New York State Parkland that may be involved in or near your project. Such impacts must be considered as part of the environmental review of the project pursuant to the National Environmental Policy Act and/or the State Environmental Quality Review Act (New York Environmental Conservation Law Article 8).

Based upon this review, the New York SHPO has determined that no historic properties will be affected by this undertaking.

If further correspondence is required regarding this project, please be sure to refer to the OPRHP Project Review (PR) number noted above.

Sincerely,

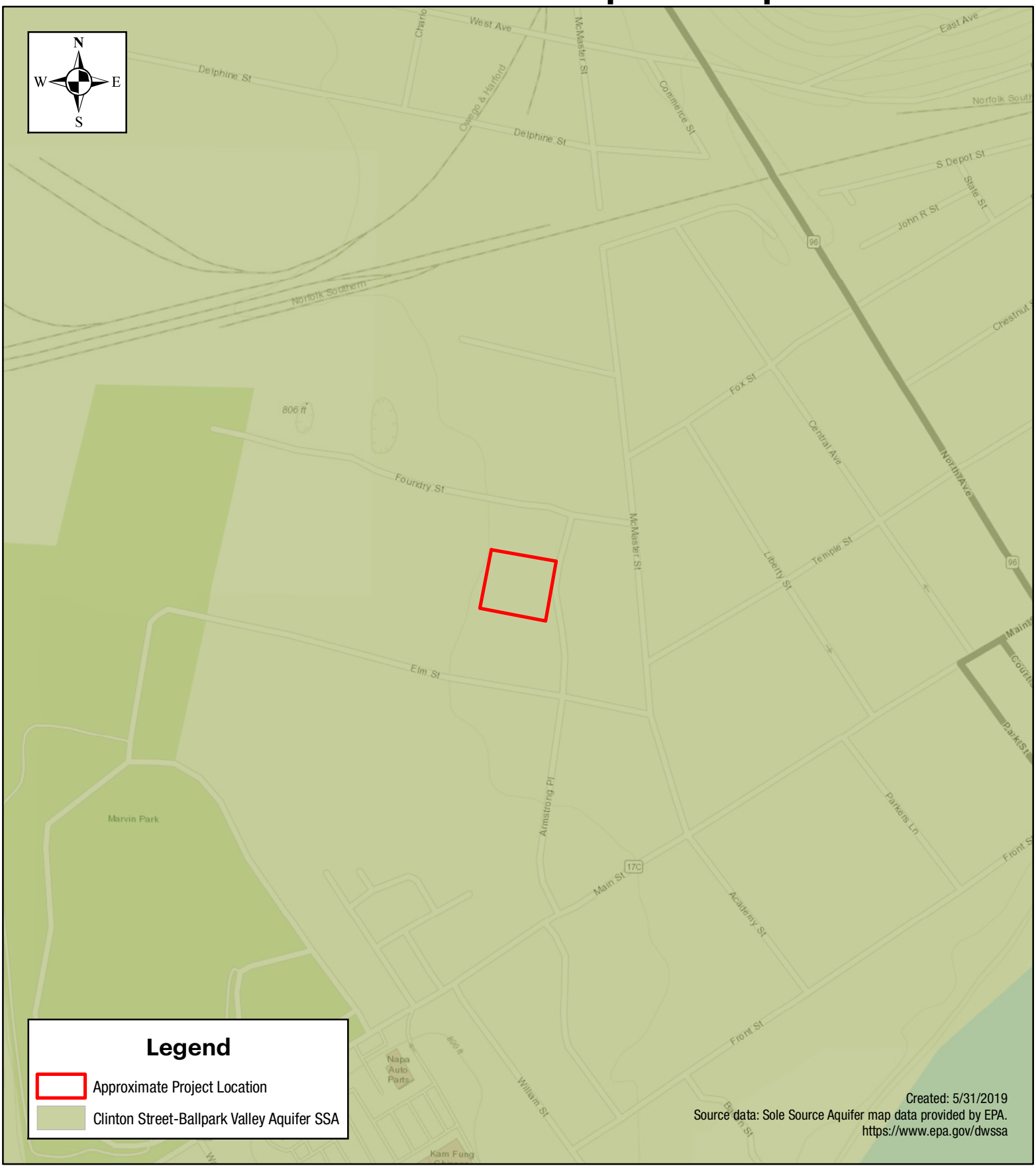
Michael F. Lynch, P.E., AIA
Director, Division for Historic Preservation

Attachment 9

EPA Sole Source Aquifer Analysis

EPA Sole Source Aquifer Map
EPA Sole Source Aquifer Consultation Response
EPA Sole Source Aquifer Consultation Package

EPA Sole Source Aquifer Map



Tectonic

1:5,000

0 250 500 1,000 Feet

Village of Owego Municipal Facility Project
20 Elm Street
Village of Owego
Town of Owego
Tioga County, New York

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 2
290 BROADWAY
NEW YORK, NY 10007-1866

May 29, 2019

Alicia Shultz
Senior Environmental Scientist
New York State Homes & Community Renewal
Governor's Office of Storm Recovery
38-40 State St., 408N, Hampton Plaza
Albany, NY 12207

Dear Ms. Shultz:

This letter is in response to your May 21, 2019 request for a Sole Source Aquifer review of the proposed construction of a new Department of Public Works (DPW) facility to replace one that was badly damaged during a storm event. The project is being funded under the Housing and Urban Development Community Development Block Grant - Disaster Recovery (CDBG-DR) Program. The proposed project site is within the Clinton Street Ballpark Aquifer System, designated by EPA as a Sole Source Aquifer on January 14, 1985 (citation 50 FR 2025, and our review has therefore been conducted in accordance with Section 1424(e) of the Safe Drinking Water Act (SDWA).

The steel-framed DPW building would sit on concrete foundation walls that extend four feet above grade. These walls would rest on concrete footings poured around the perimeter of an excavation approximately 4 ft deep, below the frost line. The building's footprint would be approximately 50 ft x 100 ft. The portion of the foundation walls above grade would not be continuous but would have gaps, allowing water to flow under the building in the event of flooding. The GOSR referred to this configuration as "flood venting". Potable water would be supplied by the United Water of Owego system through a main running along Elm Street. The service connection to the facility would be 1-inch diameter copper piping. Wastewater would flow through a PVC lateral pipe into a sanitary sewer maintained by the Village of Owego Sewer Dept. Wastewater would flow off site under gravity, so that no pump stations are necessary. Heat and hot water would be provided electrically, and there would be no petroleum storage tanks on site. The project area would be graded so that stormwater would be directed to an area of depression accommodating up to 2,102 cu ft of water. There would be more than adequate separation distance between the base of this depression and the water table, which has been determined to be at least 11 ft below grade.

Based on the information provided, it is anticipated that this project will not pose a significant threat to public health or ground water resources and complies with Section 1424(e) of the SDWA. Please be advised that meeting the requirements of 1424(e) does not preclude the need to meet National Environmental Policy Act (NEPA) requirements to address direct, indirect, and cumulative impacts. This review does not constitute a review under Section 309 of the Clean Air Act; EPA therefore reserves the right to review additional environmental documents on this project.

If you have any questions concerning this matter or would like additional information, please feel free to contact Michael Poetzsch at (212) 637-4147.

Sincerely yours,

Stephanie Lamster, Acting Team Leader
Environmental Review Team

Cc: Stephen Gould

Governor's Office of Storm Recovery

ANDREW M. CUOMO
Governor

May 21, 2019

Michael Poetzsch
U.S. Environmental Protection Agency
Region II Main Regional Office
290 Broadway, 25th Floor
New York, NY 10007

RE: Sole Source Aquifer Analysis - CDBG-DR Program
Village of Owego Municipal Facility Project: 20 Elm Street, Village of Owego, Town of Owego, Tioga County, New York

Dear Mr. Poetzsch:

The Governor's Office of Storm Recovery (GOSR), operating under the auspices of the New York State Homes and Community Renewal's (NYSHCR) Housing Trust Fund Corporation, was established to aid the statewide recovery of disaster-affected communities in New York State. GOSR is administering a U.S. Department of Housing and Urban Development (HUD) Community Development Block Grant for Disaster Recovery (CDBG-DR), including the New York Rising Community Reconstruction (NYRCR) Program. 24 C.F.R. Part 58 requires GOSR to review projects for conformance with the Safe Drinking Water Act of 1974 (42 U.S.C. 201, 300(f) et seq., and 21 U.S.C. 349) as amended, and Environmental Protection Agency ("EPA") regulations pertaining to Sole Source Aquifers found at 40 C.F.R. Part 149. On behalf of GOSR, please find enclosed the sole source aquifer review information for one such project.

Project Description

The Proposed Action will involve the construction of a new municipal building for the Village of Owego Department of Public Works at 20 Elm Street, Village of Owego, Town of Owego, Tioga County, New York. The new municipal building will be an approximately 5,000 square foot (50 foot by 100 foot) steel framed building that is two (2) feet above the 100-year floodplain, which is 6 feet above the existing grade. The Proposed Action is located on vacant land approximately 50 feet to the west of an existing Department of Public Works building and maintenance garage.

The Proposed Action will include the following construction activities: installation of silt fence; removal of existing site vegetation, asphalt pavement, concrete sidewalk, and concrete curb; relocating existing boulders along an asphalt parking lot; clearing and grubbing the site to the required sub-grade elevation; providing additional fill and grading the site; construction of the proposed municipal building and interior spaces; installation of landings, stairs, ramps, pavement, conduit sleeves, parking delineation lines, a sanitary sewer line, a water service line, a utility pole, an overhead utility line, an underground utility line, and one (1) ADA compliant exterior ramp and stairs to accommodate elevated building access; connecting new water and sanitary services to the building from existing municipal lines; all necessary electrical, plumbing, and mechanical provisions and connections; and restoring the area with topsoil, seed, and mulch. The creation of a floodplain mitigation area will offset the floodplain loss that will result from infilling the floodplain in order to site the new building above the 100-year floodplain. The mitigation includes 5,600

square feet of flood venting in the new building and a 2,102 cubic foot retention pond. The mitigation actions will increase the floodplain storage by 172 cubic feet. The Village of Owego Floodplain Administrator has approved the floodplain mitigation.

The Village of Owego Department of Public Works is located in a 100-year floodplain and experienced catastrophic flooding from Hurricane Irene and Tropical Storm Lee in 2011. The existing building that houses the Department of Public Works and Code Enforcement is located approximately four (4) feet below the 100-year floodplain elevation. As a result of Hurricane Irene and Tropical Storm Lee, the Village of Owego's Department of Public Works building experienced flood waters approximately four (4) feet above the existing grade level, which is approximately two (2) feet below what will be the finished floor elevation for the new proposed building. The flooding caused the Village of Owego Department of Public Works building to be rendered inoperable. The Proposed Action mitigates this threat by constructing a new municipal facility that will be elevated two (2) feet above the 100-year floodplain, which will protect the building from future storm events and allow the Village of Owego to respond better and recover more quickly from future events.

In accordance with the Memorandum of Understanding ("MOU") between EPA and HUD dated August 24, 1990, GOSR hereby requests an Initial Screen/Preliminary Review for the project. Please review the attached documentation, including Attachment 2.A and 3 to the MOU. Responses can be sent to me via email at Alicia.Shultz@nyshcr.org. In accordance with the MOU, please respond within fifteen days. If you have any questions, please call me at (518) 474-0647.

Sincerely,

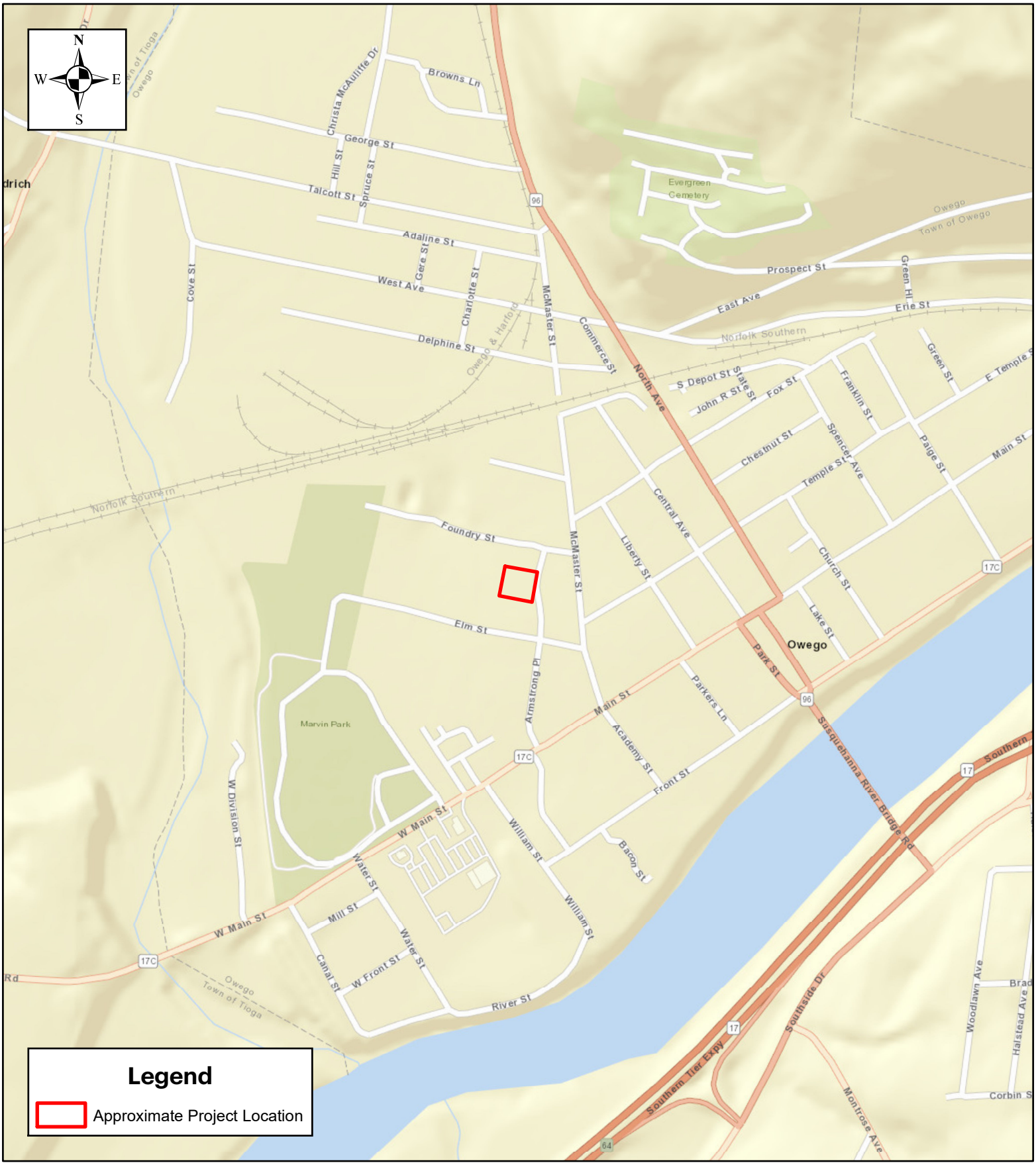
Alicia Shultz
Senior Environmental Scientist
New York State Homes & Community Renewal
38-40 State Street, 408N
Hampton Plaza
Albany, NY 12207

Attachments:

A. Street Map, Topographic Map, Aerial Map, and Sole Source Aquifer Map
B. Non-Housing/Project Activity Initial Screen Criteria
C. SSA Preliminary Review Information Requirements
D. Project Design Plans

A. Street Map, Topographic Map, Aerial Map, and Sole Source Aquifer Map

Street Map


N
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E
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Legend
Approximate Project Location
Foundry St
Elm St
Main St
W Main St
Marvin Park
Owego
Evergreen Cemetery
Norfolk Southern
Susquehanna River Bridge Rd
Southern Tier Expy
Southside Dr
Prospect St
East Ave
West Ave
Delphine St
Adaline St
George St
Talcott St
Browns Ln
Christa McAuliffe Dr
Hill St
Spruce St
Cove St
Charlotte St
Gere St
McMaster St
Commerce St
North Ave
Erie St
Green St
Franklin St
Chestnut St
Temple St
Spencer Ave
Paige St
Liberty St
Central Ave
Church St
Lake St
Park St
Parkers Ln
Academy St
Front St
Armstrong Pl
William St
Bacon St
Water St
Mill St
Canal St
W Front St
River St
W Division St
Woodlawn Ave
Halstead Ave
Montrose Ave
Corbin St
Owego & Harford
Town of Owego
Town of Tioga
1:10,000
0
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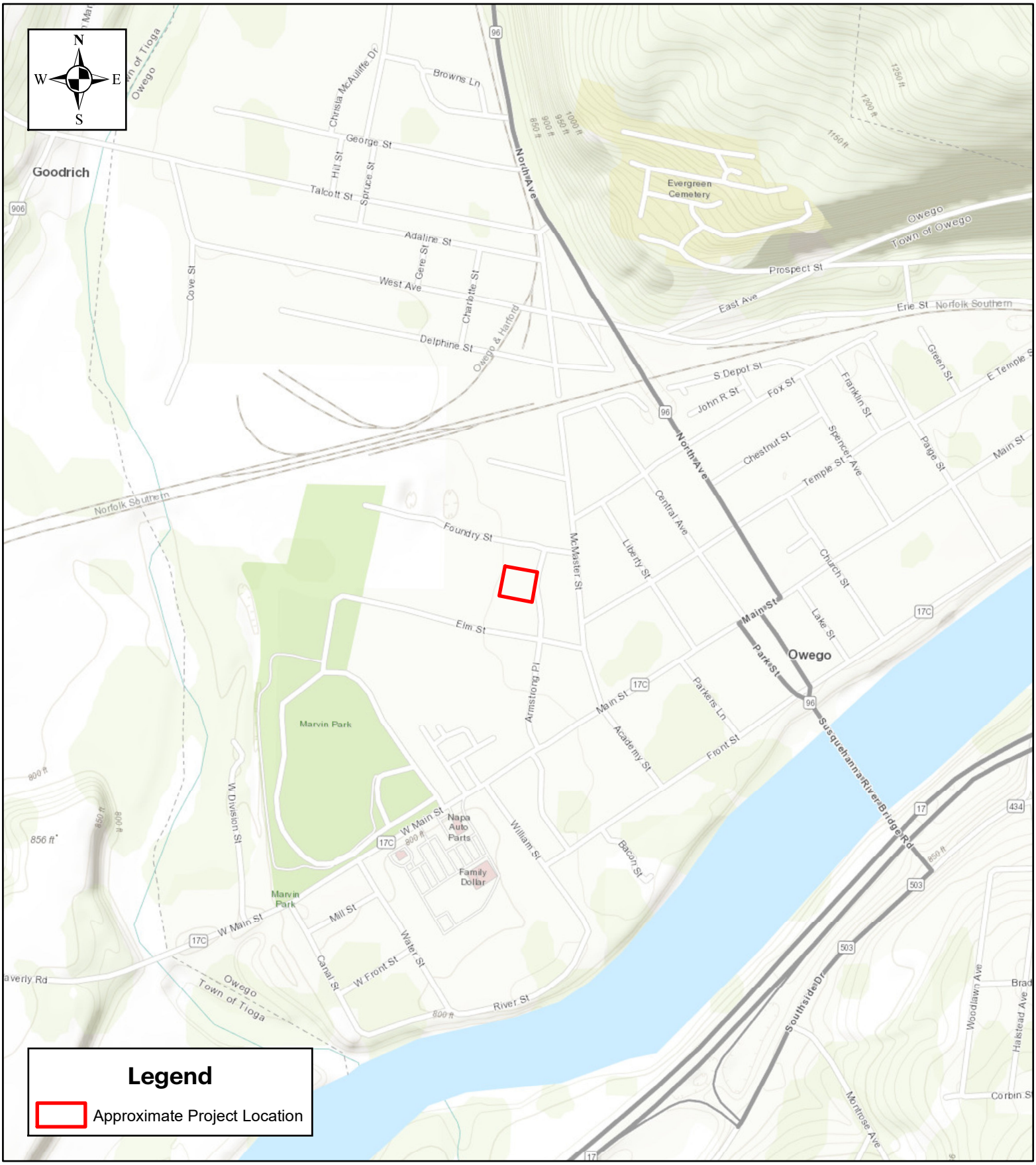
2,000 Feet
Tectonic
Village of Owego Municipal Facility Project
20 Elm Street
Village of Owego
Town of Owego
Tioga County, New York

Topographic Map



Tectonic

1:10,000

0 500 1,000 2,000 Feet

Village of Owego Municipal Facility Project
20 Elm Street
Village of Owego
Town of Owego
Tioga County, New York

Aerial Map

Tectonic

1:500

0 25 50 100 Feet

Village of Owego Municipal Facility Project
20 Elm Street
Village of Owego
Town of Owego
Tioga County, New York

B. Non-Housing/Project Activity Initial Screen Criteria

ATTACHMENT 2.A

NON-HOUSING/PROJECT ACTIVITY INITIAL SCREEN CRITERIA

The following list of criteria questions are to be used as an initial screen to determine which **non-housing** projects/activities should be forwarded to the Environmental Protection Agency (EPA) for Preliminary Sole Source Aquifer (SSA) Review. (For housing projects/activities, see Attachment 2.B) If any of the questions are answered affirmatively, then Attachment 3, SSA Preliminary Review Requirements, should also be completed. The application/final statement, this Attachment, Attachment 3, and any other pertinent information should then be forwarded to EPA at the address below.

Any project/activity not meeting the criteria in this Attachment, but suspected of having a potential adverse effect on the Sole Source Aquifer should also be forwarded.

CRITERIA QUESTIONS	YES	NO	N/A
1. Is the project/activity located within a currently designated or proposed groundwater sensitive area such as a special Ground Water Protection Area, Critical Supply Area, Wellhead Protection Area, etc.? **See Attachment A.**	☒	☐	☐
2. Is the project/activity located within a one half mile radius (2640 feet) of a current or proposed public water supply well or wellfield? **See Attachment A.**	☒	☐	☐

3. Will the project/activity include or directly cause (check appropriate items):

	YES	NO	N/A
construction or expansion of solid waste disposal, recycling or conversion facilities	☐	☒	☐
construction or expansion or closure of landfills	☐	☒	☐
construction or expansion of water supply facilities	☐	☒	☐
construction or expansion of on-site wastewater treatment plants or sewage trunk lines	☐	☒	☐
construction or expansion of gas or petroleum trunk lines greater than 1320 feet	☐	☒	☐
construction or expansion of railroad spurs or similar extensions	☐	☒	☐
construction or expansion of municipal sewage treatment plants	☐	☒	☐

4. Will the project/activity include storage or handling of any hazardous constituents as listed in Attachment 4, Hazardous Constituents.	☐	☒	☐
5. Will the project/activity include bulk storage of petroleum in underground or above ground tanks in excess of 1,100 gallons?	☐	☒	☐
6. Will the project/activity require a federal or state discharge elimination permit or modification of an existing permit?	☐	☒	☐

This attachment was completed by:

Name:	Alicia Shultz
Title:	Senior Environmental Scientist
Address:	38-40 State Street Hampton Plaza Albany NY 12077
Telephone number:	(518) 474-0647

Date: May 21, 2019

C. SSA Preliminary Review Information Requirements

ATTACHMENT 3

SSA PRELIMINARY REVIEW INFORMATION REQUIREMENTS

Where currently available, the information in this Attachment should be provided to the Environmental Protection Agency (see address below) along with the application/final statement; Attachment 2.A, Non-Housing Initial Screen Criteria or Attachment 2.B, Housing Initial Screen Criteria; and any other information which may be pertinent to a Sole Source Aquifer review. Where applicable, indicate the source of your information.

I. Project/Activity Location	**Enclosed?**	
	Yes	No
1. Provide the geographic location and total acreage of the project/activity site. Include a site map which identifies the site in relation to the surrounding area. **See project location maps in *Attachment A*. Less than one acre of land will be disturbed.**	☒	☐
2. If applicable, identify which groundwater sensitive areas (Special Ground Water Protection Area, Critical Supply Area, Wellhead Protection Area, etc.) the project/activity is located within or adjacent to. **See Attachment A.**	☒	☐

II. Nature of Project/Activity	**Enclosed?**	
	Yes	No
3. Provide a general narrative describing the project/activity including but not limited to: type of facility; type of activities to be conducted; number and type of units; number of residents, etc. Provide the general layout of the project/activity site and site-plan if available. **See the cover letter with project description.**	☒	☐

III. Public Water Supply	Enclosed? Yes	Enclosed? No
4. Provide a description of plans to provide water supply. **Connection to United Water Owego-Nichols water authority. Water supplied by three drilled wells in Owego and two drilled wells in Nichols.**	☒	☐
5. Provide the location of nearby existing or proposed public water supply wells or wellfields within one half mile radius (2640 feet) of the project/activity. Provide the name of the supplier(s) of those wells or wellfields. This information should be available from the local health department, State health department or the State environmental agency. **See Attachment A.** **2568020 - System Name: United Water of Owego** **System ID: NY5304409** **Facility Name: Well #4**	☒	☐

IV. Wastewater and Sewage Disposal	Enclosed? Yes	Enclosed? No
6. Provide a description of plans to handle wastewater and sewage disposal. If the project/activity is to be served by existing public sanitary sewers provide the name of the sewer district. **Village of Owego Sewer Department.**	☒	☐
7. Provide a description of plans to handle storm water runoff. **Storm water will be directed to a 2,102 cubic foot retention pond and overflow into the Village of Owego storm water system.**	☒	☐
8. Identify the location, design, size of any on-site recharge basins, dry wells, leaching fields, retention ponds, etc. **A 2,102 cubic foot retention pond, see attached design plan.**	☒	☐

V. Use, Storage, Transport of Hazardous or Toxic Materials *(Applies only to non-housing projects/activities)*	**Enclosed?**	
	Yes	No
9. Identify any products listed in Attachment 4, Hazardous Constituents, of the Housing and Urban Development-Environmental Protection Agency Memorandum of Understanding which may be used, stored, transported, or released as a result of the project not related to construction.	☐	☒
10. Identify the number and capacity of underground storage tanks at the project/activity site. Identify the products and volume to be stored, and the location on the site. **No storage tanks currently exist on-site, and none are proposed.**	☐	☒
11. Identify the number and capacity of above ground storage tanks at the project/activity site. Identify the products and volume to be stored, and the location on the site. **No storage tanks currently exist on-site.**	☐	☒

This form was completed by:

Name: Alicia Shultz
Title: Senior Environmental Scientist
Address: 38-40 State Street
Hampton Plaza
Albany NY 12077
Telephone number: (518) 474-0647

Date: May 21, 2019

D. Project Design Plans

ZONING INFORMATION

MUNICIPALITY	VILLAGE OF OWEGO	
STATUS	ZONED "I" INDUSTRIAL DISTRICT	
ITEM	REQUIRED	PROPOSED*
Minimum Lot Size	9,000 S.F.	± 95,300 S.F.
Minimum Lot Width	60 Feet	± 248 Feet
Maximum Lot Coverage	38,158.56 S.F. (40% Lot Coverage Including Accessory Buildings)	Maintenance Garage - 7,947.01 S.F. Storage Building - 1,166.24 S.F. Storage Building - 2,345.57 S.F. Proposed Building - 5,400 S.F. Total - 16,858.82 S.F.
Maximum Building Footprint	N/A	N/A
Maximum Building Height	45 Feet (Not To Exceed Three Stories)	32 Feet
Minimum Front Yard Setback	25 Feet	36 Feet 6 Inches
Minimum Side Yard Setback	10 Feet	2 Feet 8 Inches
Minimum Rear Yard Setback	10% Lot Depth (39')	274 Feet
VILLAGE CODES		
Address	20 Elm Street, Owego, NY 13827	
Code Enforcement Officer	Chuck Bement	
Phone Number	(607) 687-1221	

EXISTING LEGEND:

- Denotes Existing Iron Rod
- Denotes Existing Iron Pipe
- Denotes Set Iron Rod
- Denotes Existing Boulder
- WV — Denotes Existing Water Valve
- GV — Denotes Existing Gas Valve
- Denotes Existing Power Pole
- FH — Denotes Existing Fire Hydrant
- MH — Denotes Existing Manhole
- W — Denotes Water Line
- ST — Denotes Storm Sewer Line
- SA — Denotes Sanitary Sewer Line
- G — Denotes Gas Line
- O/H — Denotes Overhead Electric Line
- TEL — Denotes Telephone Line
- Denotes Existing Sign
- FFE — Denotes Finish Floor Elevation
- BM — Denotes Set Bench Mark
- 810.44 — Denotes Existing Ground Elevation
- 810 — Denotes Existing Ground Contour
- GM — Denotes Existing Gas Meter
- Denotes Existing Square Catch Basin
- Denotes Existing Mail Box
- Denotes Existing Gravel Area
- Denotes Existing Concrete Area
- Denotes Existing Concrete Area

PROPOSED LEGEND:

ASPHALT PAVEMENT	
CONCRETE	
GRAVEL	
UTILITY POLE	
OVERHEAD ELECTRIC	O/H
UNDERGROUND ELECTRIC	U/E
UNDERGROUND WATER	W
WATER VALVE	
UNDERGROUND SANITARY SEWER	SA
SANITARY SEWER MANHOLE	SA
UNDERGROUND CONDUIT	CONDUIT
PARKING SPACE COUNT	6

KEY NOTES

#	
1	REPLACE ASPHALT PAVEMENT. SEE DETAIL 1/C-300. MATCH EXISTING ASPHALT PAVEMENT AND SEAL JOINTS. SEE DETAIL 2/C-300.
2	PROVIDE 8" PVC SANITARY SEWER LINE. SEE DETAIL 8/C-300.
3	PROVIDE 1.25" DOMESTIC WATER SERVICE LINE. SEE DETAIL 5/C-300.
4	UTILITY POLE. SEE ELECTRICAL PLANS FOR MORE INFORMATION.
5	OVERHEAD UTILITY. SEE ELECTRICAL PLANS FOR MORE INFORMATION.
6	UNDERGROUND UTILITY. SEE ELECTRICAL PLANS FOR MORE INFORMATION. SEE DETAIL 4/C-300 FOR TRENCHING.
7	CORE INTO EXISTING STRUCTURE AND CONNECT SANITARY SEWER PIPE.
8	PROVIDE 1" X 1.25" INCREASER.
9	PARKING DELINEATION LINES. NO STRIPING TO BE PROVIDED.
10	PROVIDE PRE-CAST CONCRETE WHEEL STOP FOR EACH PARKING SPOT. SEE DETAIL 10/C-300.
11	CONCRETE LANDINGS AND STAIRS. SEE STRUCTURAL PLANS FOR MORE INFORMATION. SEE DETAIL 6/C-300 FOR CONCRETE LANDING.
12	PROVIDE GRAVEL PAVEMENT. SEE DETAIL 12/C-300.
13	PROVIDE CONDUIT. SEE ELECTRICAL PLANS FOR MORE INFORMATION.
14	CONSTRUCT FLOOD PLAIN MITIGATION AREA. RESTORE SURFACE PER DETAIL 3/C-300.
15	PROVIDE 6" HDPE STORM PIPE WITH END SECTION. SEE DETAIL 8/C-300.
16	PROVIDE 1" X 1" TEE. SEE DETAIL 7/C-300.
17	PRESSURE TREATED STAIRS AND RAMP. SEE STRUCTURAL PLANS FOR MORE INFORMATION.
18	PROVIDE PRECAST CONCRETE MANHOLE. SEE DETAIL 11/C-300.
19	PROVIDE 1.25" DIAMETER VALVE. SEE DETAIL 7/C-300.

GENERAL NOTES:

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM ALL EXISTING CONDITIONS, LOCATIONS AND ELEVATIONS PRIOR TO THE START OF WORK. ANY DISCREPANCIES TO BE DETERMINED AND THE ENGINEER TO BE NOTIFIED.
2. BASED ON FLOOD INSURANCE STUDY FOR TIOGA COUNTY, NEW YORK DATED APRIL 17, 2012 THE BASE FLOOD ELEVATION AT THE PROJECT SITE IS 813.0.

1 C-200 **SITE PLAN** SCALE: 1" = 30'

NORTH

60' 30' 0' 30' 60'

GRAPHIC SCALE: 1"=30'

NEW YORK STATE OF OPPORTUNITY. DASNY

515 Broadway, Albany, New Yrok 12207-2964
One Penn Plaza, 52 Floor, NY, NY 10119-0098
539 Franklin Stree, Buffalo, NY 14202-1109
WWW.DASNY.ORG

Consultants:

DELTA ENGINEERS, ARCHITECTS & LAND SURVEYORS
860 HOOPER ROAD
ENDWELL, NY, 13760
607-231-6600

Governor's Office of Storm Recovery

VILLAGE OF OWEGO
Coolest Small Town – 2009

Project Key

REVISIONS

Rev No	Description	Date:

Client
VILLAGE OF OWEGO

Project Title
NEW MUNICIPAL BUILDING

VILLAGE OF OWEGO, NY

Drawing Title
SITE PLAN

Phase
60% DESIGN DEVELOPMENT

Drawn By:	Checked By:	Date:
RH	CLZ	04/25/19

Seal & Signature

DASNY Project No: 339920

Drawing Number C-200