

## **ADDENDUM NO. 2**

### **2013 - Adirondack Loj Road Bridge Replacement**

**Essex County, NY**

**June 19, 2013**

#### **TO ALL HOLDERS OF BIDDING DOCUMENTS:**

This Addendum, issued to bid document holders of record, indicates clarifications to the bid documents for the 2013 - Adirondack Loj Road Bridge Replacement project. All clarifications described herein shall be incorporated into the Contractor's bid proposal. This Addendum is part of the Contract Documents. Adjustments required by each item shall be understood to apply to all document references affected by the clarifications described.

1. **General:** A Pre-Bid meeting was held for the project at the site on June 18, 2013 at 9:30 AM. Minutes from the meeting are enclosed and are a part of this Addendum.
2. **Regarding the Drawings:** DELETE previously issued Drawings N-1, C-2, C-3, S-2 and S-3 and SUBSTITUTE THEREFORE the enclosed Drawings N-1, C-2, C-3, S-2 and S-3 all bearing the Revision Date 06/19/13.

**END OF ADDENDUM NO. 2**

**PRE-BID MEETING MINUTES**

Report Date: June 19, 2013

Project: 2013 - Adirondack Loj Road Bridge Replacement

Attending: Carl B. Schoder, PE - Schoder Rivers Assoc.  
Matthew E. Huntington, PE - Schoder Rivers Assoc.  
Kirk Bassarab, PE - Essex Co. DPW  
Donald Beaton - Luck Bros., Inc.  
David Rhodes - Stephen Miller General Contractors, Inc.

Distribution: Via posting on the Essex County Website as a part of Addendum No. 2 for access by all holders of bidding documents.

**A scheduled pre-bid meeting was held for the above referenced project on June 18, 2013 at 9:30 AM at the project site. The following items were discussed:**

1. Schoder reviewed bidding and construction requirements for the project, the project schedule, and similar items as stated in the bidding documents.
2. Schoder noted that temporary shoring to be designed by the contractor will be required to support the southwest foundation for the temporary bridge while the west abutment for the new bridge is constructed. This requirement will be addressed in Addendum No. 2.
3. Schoder noted that the sheet pile scour protection at the abutments indicated on Drawings S-2 and S-3 must be driven to the depths indicated. The bidders shall include in their bids all costs for the installation of such sheetpiling including the use of driving shoes, pre-driven H-piles to loosen existing soils for sheetpile installation, and any other means or methods determined to be necessary by the contractor for the installation of the indicated sheetpiling.
4. Schoder noted that cold-formed sheetpile shapes would be acceptable for the project. This modification will be addressed in Addendum No. 2.
5. Bidders asked if the low-strength concrete to be installed for the mud mat below the abutment and wingwall footings could be placed below water using tremies. NYSDEC General Permit GP-5-12-001 Permit Condition No. 23 on Page 5 of 9 of the attached permit precludes the placement of concrete below water so as to displace water from within the formworks. Therefore, the placement of concrete below water is not permitted.
6. Schoder noted that all conditions of the NYS Department of Environmental Conservation, Adirondack Park Agency and U.S. Army Corps of Engineers permits for the project must be strictly adhered to and are a part of the project requirements. A copy of these permits is attached for reference.

The meeting adjourned at 10:30 AM.

Respectfully submitted:



Carl B. Schoder, PE  
Principal

**New York State Department of Environmental Conservation**  
**Division of Environmental Permits, Region 5**  
1115 NYS Route 86, PO Box 296, Ray Brook, New York 12977  
Phone: (518) 897-1234 • FAX: (518) 897-1394  
Website: [www.dec.ny.gov](http://www.dec.ny.gov)



Joe Martens  
Commissioner

## FAX TRANSMISSION FORM

### DIVISION OF ENVIRONMENTAL PERMITS

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**TO:** Tony Lavigne Essex Co DPW  
**FROM:** Erin Burns  
**DATE:** 3/27/13  
**FAX NO:** 518-873-9195

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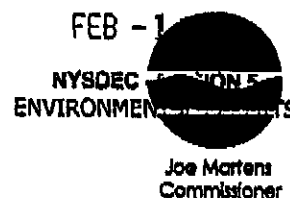
**TOTAL NUMBER OF PAGES:** 2 **INCLUDING COVER PAGE**  
To report any problems, call (518) 897-1234.

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#### Messages/Instructions:

Muni GP approval for  
Adirondac Ldg bridge replacement.

NYS Department of Environmental Conservation  
MUNICIPAL GENERAL PERMIT (GP-5-12-001)  
Authorization Form



Municipality: Essex County DPW Contact Name: Anthony Lavigne  
Phone Number: 518-873-3666 Email: tlavigne@co.essex.ny.us Fax: 518-873-9195  
Exact Project Location: Adirondack LOJ Rd. over South Meadow Brook  
Stream / Water body name or DEC Wetland ID: South Meadow Brook  
Project Description: Replace existing bridge damaged by hurricane Irene.

Project Start Date: 3/2013Work during Trout prohibition period? (Cond. #8) ☒ YES ☐ NOProject End Date: 9/2013In-water equipment operation? (Cond. #30) ☐ YES ☒ NOWill Project Require a TRP for use of State land? ☐ YES ☒ NO

Not Valid Until Signed By County or Municipality: I have read and understand the GP-5-12-001 permit terms and conditions. I hereby affirm that information provided on this Authorization Form (AF) form is true to the best of my knowledge and belief. False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law. Further, the County or Municipality accepts full responsibility for all damage, direct or indirect, of whatever nature, and by whomever suffered, arising out of the project described herein and agrees to indemnify and save harmless the State from suits, actions, damages and costs of every name and description resulting from said project. I understand that, by submitting this AF, I am agreeing to comply with all the terms and conditions of the issued GP-5-12-001 for which this AF is being submitted.

Print Name and Title: ANTHONY LAVIGNE DPW SUPERVISOR  
Signature: [Signature] Date: 01-31-13

Not Valid Until: This form must be completed and submitted by email, Fax or US mail to the appropriate DEC office at least three business days prior to start of project. The form section below will indicate approval or denial of project-specific conditions, if applicable, and will be date-stamped by DEC and returned to sender. The expiration date of this authorization shall be one calendar year from the date on the DEC stamp.

for projects located in Clinton, Essex, Hamilton, Franklin counties:

NYSDEC  
Division of Environmental Permits  
PO Box 296, Route 86  
Ray Brook, NY 12977-0296  
Phone: (518) 897-1234  
FAX: (518) 897-1394  
email: [rsdep@gw.dec.state.ny.us](mailto:rsdep@gw.dec.state.ny.us)

for projects located in Fulton, Saratoga, Washington, Warren counties:

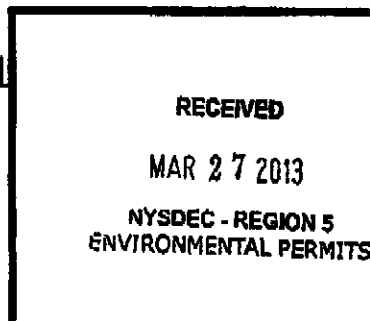
NYSDEC  
Division of Environmental Permits  
232 Golf Course Road  
Warrensburg, NY 12885  
Phone: (518) 623-1281  
FAX: (518) 623-3603  
email: [rsdep@gw.dec.state.ny.us](mailto:rsdep@gw.dec.state.ny.us)

For DEC Use Only

DEC#: 5 - 1540 - 00399 / 00001

Stream Disturbance (Bed and Banks)  
Navigable Waters (Excavation and Fill)  
Freshwater Wetlands  
401 Water Quality Certification

NYTM-E: 583.387  
NYTM-N: 4843544

Work during Trout prohibition period: Approved Denied NAIn-water equipment operation: Approved Denied NA

cc: Rob fibrentino, Fisheries; Kevin Bruce, ACOE; Kris Alberg L&F;  
Emily Tyner, APA



**PERMIT**  
**Under the Environmental Conservation Law (ECL)**

**GENERAL PERMIT GP-5-12-001**  
**Municipal**

**Permittee and Facility Information**

**Permit Issued To:**

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**Facility:**

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**Applicable DEC Region(s):** 5

**General Permit Authorized Activity:** Projects designed and constructed for County and Municipal offices and are located in

- (a) navigable waters of the state; and/or
- (b) non-navigable waters of the state classified AA, AA(T), A, A(T), B, B(T) and C(T); and/or
- (c) regulated NYS DEC Freshwater Wetlands (FWW) and their 100 foot Adjacent Areas (AA) not within the Adirondack Park boundary.

All projects are limited to the following thresholds:

1. Construction or placement of a single-span bridge with no central supports, including associated bank and substructure erosion protection that involves stream bed/bank disturbance which totals less than one hundred (100) lineal feet.
2. New installation, replacement, repair or maintenance of a single arch, box, elliptical or round culvert and associated headwall protection that involves stream bed/bank disturbance which totals less than seventy (70) lineal feet, provided the replacement or repair does not consist of slip-lining.
3. The implementation of instream stabilization, habitat or feature techniques.
4. The implementation, construction or placement of non-vertical erosion protection structures, not in conjunction with any other activity listed herein, that involves stream bed/bank disturbance which totals less than one hundred (100) lineal feet.
5. Restoration, maintenance, replacement, substantial reconstruction, modification or expansion of existing functional structures other than culverts, or facilities located in (a) navigable waters, (b) protected streams and (c) FWWs and AAs, including but not limited to utility lines, bridges, roads, highways, railroad beds or paved areas; provided the activity involves less than one-quarter (1/4) acre of new disturbance in the regulated FWW and AA.
6. Installation of dry hydrants for fire protection purposes.



**Permit Authorizations**

**Excavation & Fill in Navigable Waters - Under Article 15, Title 5**

Effective Date: 03/12/2012 Expiration Date: 03/11/2022

**Freshwater Wetlands - Under Article 24**

Effective Date: 03/12/2012 Expiration Date: 03/11/2022

**Stream Disturbance - Under Article 15, Title 5**

Effective Date: 03/12/2012 Expiration Date: 03/11/2022

**Water Quality Certification - Under Section 401 - Clean Water Act**

Effective Date: 03/12/2012 Expiration Date: 03/11/2022

**NYSDEC Approval**

By acceptance of this permit, the permittee agrees that the permit is contingent upon strict compliance with the ECL, all applicable regulations, and all conditions included as part of this permit.

**General Permit Authorized by**

Permit Administrator: MARC S MIGLIORE, Deputy Regional Permit Administrator

Address: REGION 5 WARRENSBURG SUB-OFFICE  
232 GOLF COURSE RD  
WARRENSBURG, NY 12885

Authorized Signature: \_\_\_\_\_

Date: 03/12/2012

**Permit Components**

NATURAL RESOURCE PERMIT CONDITIONS

WATER QUALITY CERTIFICATION SPECIFIC CONDITION

GENERAL CONDITIONS, APPLY TO ALL AUTHORIZED PERMITS

NOTIFICATION OF OTHER PERMITTEE OBLIGATIONS

**NATURAL RESOURCE PERMIT CONDITIONS - Apply to the Following  
Permits: WATER QUALITY CERTIFICATION; STREAM DISTURBANCE;  
FRESHWATER WETLANDS; EXCAVATION & FILL IN NAVIGABLE  
WATERS**



## REPORTING AND RECORD KEEPING

**1. Other Agency Approvals** This Municipal General Permit does not eliminate the need to obtain approvals from other local, state or federal agencies such as the Adirondack Park Agency (APA) for projects located within the Adirondack Park, the Lake George Park Commission (LGPC) for projects located in Lake George Park, the Hudson River-Black River Regulating District (HRBRD) for projects located on Great Sacandaga Lake or the U.S. Army Corps of Engineers (USACE) for projects which are located in Federal waters or wetlands.

**2. Floodplain Regulations** The project must meet all local and federal floodplain regulations and, if applicable, a written approval from the floodplain administrator must be kept on file.

**3. Project Segmentation Prohibited** Projects for this General Permit (GP) shall be complete projects, not a part of a larger project that exceeds the thresholds of this GP's Authorized Activity.

**4. Authorization to Commence Work** The permittee shall notify the Regional Permit Administrator at least 3 business days prior to the commencement of work that work will begin on the project. Notification shall be made by completing and faxing, e-mailing or mailing the Authorization Form to the Regional Permit Administrator at the location indicated on the form. Should the Department not contact the permittee with objections to the proposal within the 3 business after receiving the Authorization Form, there shall be no objection to the activity or activities authorized, and the Authorization Form will be date-stamped and returned, documenting receipt by the Regional Permit Administrator.

**5. Conformance With Plans** All activities authorized by this permit must be in strict conformance with the approved plans submitted by the applicant or applicant's agent as part of the permit application. Such approved plans were prepared by and approved by the county, municipality or their agents, and are on file at the county of municipal office.

**6. Conditions Prevail Over Plans** If any condition of this permit conflicts with the approved plans, the permit condition shall prevail over the plans.

## PRE-CONSTRUCTION REQUIREMENTS

**7. Prohibited Streams and Rivers** This General Permit is not valid for use in the following regulated watercourses:

Great Chazy River from I-87 (Northway) downstream to lake Champlain;  
West Branch Ausable River in its entirety;  
Boquet River from the falls north of CR22 in Wadhams downstream to Lake Champlain;  
Ausable River from Rainbow Falls downstream to Lake Champlain;  
Saranac River from Kents Falls downstream to Lake Champlain;  
Raquette River from Lower Falls downstream to the boat ramp off Rtes 3 & 30 (in the Town of Harrietstown);  
Sacandaga River from the dam at the campground just north of the West Branch confluence downstream to Great Sacandaga Lake;  
West Stony Creek from the State Forest Preserve boundary downstream to the Sacandaga River;  
Sacandaga Lake outlet (to Lake Pleasant) in its entirety;  
Batten Kill from the NY/VT border downstream to Center Falls.



**8. Prohibition Period for In-water Work** All in-water work, as well as any work that may result in the suspension of sediment, is prohibited during the trout and salmon spawning and incubation period commencing October 1 and ending April 30, unless prior project-specific approval is granted by the Department. Such approval shall be requested by checking "YES" following the question on the Authorization Form, and by providing written justification with submittal of the Form to the Regional Permit Administrator.

**9. Precautions Against Contamination of Waters** All necessary precautions shall be taken to preclude contamination of any wetland or waterway by suspended solids, sediments, fuels, solvents, lubricants, epoxy coatings, paints, concrete, leachate or any other environmentally deleterious materials associated with the project.

**10. Creosote, Penta and CCA Use Prohibited** The use of wood treated with creosote, Pentachlorophenol or CCA (Chromated Copper Arsenate) is prohibited for in-water and above-water use.

**11. No Interference With Navigation** There shall be no unreasonable interference with navigation by the work herein authorized.

**12. Install and Maintain Erosion Controls** Staked straw bales, silt fence or other DEC-approved erosion control measures are to be installed on the downslope edge of any disturbed areas. This barrier to sediments is to be put in place before any disturbance of the ground occurs and is to be maintained in a functional condition until all disturbed ground is heavily vegetated or otherwise stabilized. All erosion control measures intended to stabilize the work site shall be completed by October 1st of any calendar year. If work authorized by this permit cannot be completed by October 1st, interim stabilization measures consisting of erosion control matting or mulching shall be installed by October 1st and maintained in an effective condition until such time as authorized work resumes in the spring. Upon completion of work and satisfactory stabilization of disturbed areas, all erosion controls shall be entirely removed immediately.

**13. Silt Screen** If turbidity may be created as a result of this project, a silt screen curtain (maximum opening of U.S. Sieve No. 70) continually weighted across the bottom and suspended on floats or staked upright must be positioned to surround the work site. The curtain must remain in place for at least 12 hours after completion of the project or longer, if necessary.

**14. No Impedance to Aquatic Organisms** Structures must not impede upstream and downstream migration of aquatic organisms.

**15. Return Stranded Fish** Any fish remaining in the dewatered area shall be returned to the stream, lake or wetland.

**16. Siltation Prevention Measures** Siltation prevention measures, such as silt fencing, sediment traps or settling basins, shall be installed and maintained during the project, to prevent movement of silt and turbid waters from the project site into any watercourse, stream, water body or wetland.

**17. Clearing of Vegetation and Snags** Clearing of natural vegetation shall be limited to that material which poses a hazard or a hindrance to the authorized construction activity. Snags which provide shelter in streams for fish shall not be disturbed unless they cause serious obstructions, scouring or erosion. Trees shall not be felled onto the immediate banks or into any lake, stream or wetland.





**18. Turbid Discharges** Visibly turbid discharges from land clearing, grading or excavation activities, or de-watering operations shall not enter the stream, navigable water, or wetland. Prior to entry into stream, navigable water or wetland, any such discharge shall be retained in an appropriately maintained upland settling basin; filtered through crushed stone, sand, straw bales, silt screening (maximum opening size of U.S. Sieve Number 20), etc.; or directed to a grassy upland area a sufficient distance from the stream to prevent change in turbidity of the receiving water.

#### CONSTRUCTION REQUIREMENTS

**19. Install Culvert in the Dry** All culverts shall be installed in the dry. This may require constructing a cofferdam and/or pumping or piping the stream flow around the work area.

**20. Cofferdam Specifications** Any temporary cofferdam shall be constructed of materials such as sheet piling, sandbags or clean #1 or larger stone that will not contribute to turbidity or siltation of the waterbody. Sandbags shall be of the filter fabric type, double bagged and individually tied to prevent sand leakage. They shall be placed and removed manually to prevent spillage. Only clean sand free of debris, silt, fine particles, or other foreign substances shall be used to fill the bags. The cofferdam shall be entirely removed immediately upon completion of work.

**21. Temporary Diversion Channel** Any temporary diversion channel, culvert or pump-around shall be constructed to prevent running water in the work area. If a diversion channel is used, its sides and bottom shall be protected by rock riprap or other suitable non-erodible materials to prevent scour and erosion. The area of temporary diversion must be restored to its original condition following completion of the work.

**22. Excavation for Authorized Structure Placement** Only that excavation minimally necessary for proper placement of the permitted structure is authorized. Excavation or, including but not limited to, dredging of waterway or freshwater wetland bottom sediments, for any purpose other than those authorized by this GP is expressly prohibited.

**23. Concrete Leachate** No wet or fresh concrete or leachate shall be allowed to escape into any wetlands or waters of New York State, nor shall washings from ready-mixed concrete trucks, mixers, or other devices be allowed to enter any wetland or waters. Only watertight or waterproof forms shall be used. Wet concrete shall not be poured to displace water within the forms.

**24. Bridge and Culvert Size** For new or replacement bridges and culverts, the minimum bridge span (abutment to abutment) and culvert diameter or span shall be equal to or greater than 1.25 times the channel bed width. The channel bed width shall be an average width measured at the project location and straight sections of stream upstream and downstream, which are not influenced by structures or representative of unusual channel characteristics. If this condition cannot be met, an individual permit will be required. Notwithstanding the aforementioned, all such bridges and culverts must be designed to meet appropriate hydraulic capacity and structural integrity criteria.

**25. Culvert Slope** For streams which have a slope of three percent (3%) or less at the project area, the embedded culvert shall be installed with a zero percent (0%) slope. For streams which have a slope of more than 3% at the project area, a bottomless culvert or bridge must be installed. An individual permit is required for projects which deviate from this condition.



**26. Embed Culverts** All culverts with bottoms, including round culverts, must be installed so that at least 20% of the culvert's vertical height is embedded below the existing stream bed at the outlet end of the culvert. The streambed material that was excavated to accommodate culvert placement shall then be spread evenly throughout the bottom of the new culvert. If it is not practical to spread streambed material throughout the entire bottom of the new culvert, material must be spread in the culvert at the inlet and outlet ends gradually up to streambed elevation to promote natural deposition. Culverts with bottoms, including round culverts, shall not be installed if the placement is on bedrock.

**27. Maintain Channel Geometry** The stream channel bed width, depth and bank height immediately upstream and downstream of the project site shall be consistent with the average channel bed width of the stream. There shall be no widening or constriction of the stream channel bed through the road crossing, and no berms shall be constructed on the stream or river banks.

**28. Maintain Water Flow During Work** During periods of work activity, flow immediately downstream of the work site shall equal flow immediately upstream of the work site.

**29. Riprap Placement Specifications** All stone riprap shall be placed rather than dumped. Riprap shall be installed at a 1 vertical to 2 horizontal slope or flatter. During the bank sloping operation, soil shall not be pushed or placed into the stream bed or the flowing water, and shall not result in flow constriction. The stone riprap shall be placed on a layer of filter material such as gravel, small rock and/or woven filter cloth to provide positive drainage and soil stability. The placement of riprap shall not impede the movement of aquatic life. Riprap may not be consolidated with concrete or by any other means.

**30. No Machinery in Waterbody or Wetland** Machinery shall not be operated in or from any protected waterbody or in any portion of a regulated Freshwater Wetland without project-specific approval from the Department. However, with backhoes and similar heavy equipment, the bucket may enter the water or wetland, and is not considered operation in the water. Approval to operate machinery in or from the water shall be requested by checking "YES" following the question on the Authorization Form, and by providing written justification with submittal of the Form to the Regional Permit Administrator.

**31. Fill and Riprap at Culvert** Only compacted, clean earthen fill shall be used as backfill and fill around the culvert to minimize water infiltration around the culvert. Both ends of the culvert shall be adequately riprapped to prevent erosion and culvert failure during periods of high water flow.

**32. Materials Disposed at Upland Site** Any demolition debris, excess construction materials, and/or excess excavated materials shall be immediately and completely disposed of on an upland site more than 100 feet from any waterbody, including freshwater wetlands. These materials shall be suitably stabilized so as not to re-enter any water body, wetland, or wetland adjacent area.



**33. Stabilize Disturbed Areas** All disturbed stream banks **below** the normal high water elevation must be graded no steeper than 1 vertical to 2 horizontal slope, and adequately stabilized with stone riprap (native stone preferred). All other areas of soil disturbance **above** the ordinary high water elevation, or elsewhere, shall be seeded with a native perennial grass seed and mulched with straw within two (2) days of final grading. Mulch shall be maintained until suitable vegetative cover is established. Destroyed bank vegetation shall be replaced with shrub willow or silky dogwood plantings, for example, unless the natural growth disturbed consisted of species which immediately regenerate by "suckering."

**34. Protect Stream, Wetland and Buffer From Road Runoff** Roads, driveways and/or parking areas shall be graded to direct runoff away from streams, freshwater wetlands and/or adjacent areas where possible. The road banks within 50 feet of the stream shall be adequately protected with riprap or seeded and mulched within 2 days of completion of the crossing. If the protection consists of seeding and mulching, growth of vegetative cover must become successfully established. If vegetation fails to successfully establish, the area must be replanted until successful vegetation establishment is achieved.

**35. State Not Liable for Damage** The State of New York shall in no case be liable for any damage or injury to the structure or work herein authorized which may be caused by or result from future operations undertaken by the State for the conservation or improvement of navigation, or for other purposes, and no claim or right to compensation shall accrue from any such damage.

**36. State May Order Removal or Alteration of Work** If future operations by the State of New York require an alteration in the position of the structure or work herein authorized, or if, in the opinion of the Department of Environmental Conservation it shall cause unreasonable obstruction to the free navigation of said waters or flood flows or endanger the health, safety or welfare of the people of the State, or cause loss or destruction of the natural resources of the State, the owner may be ordered by the Department to remove or alter the structural work, obstructions, or hazards caused thereby without expense to the State, and if, upon the expiration or revocation of this permit, the structure, fill, excavation, or other modification of the watercourse hereby authorized shall not be completed, the owners, shall, without expense to the State, and to such extent and in such time and manner as the Department of Environmental Conservation may require, remove all or any portion of the uncompleted structure or fill and restore to its former condition the navigable and flood capacity of the watercourse. No claim shall be made against the State of New York on account of any such removal or alteration.

**37. State May Require Site Restoration** If upon the expiration or revocation of this permit, the project hereby authorized has not been completed, the applicant shall, without expense to the State, and to such extent and in such time and manner as the Department of Environmental Conservation may lawfully require, remove all or any portion of the uncompleted structure or fill and restore the site to its former condition. No claim shall be made against the State of New York on account of any such removal or alteration.

### **WATER QUALITY CERTIFICATION SPECIFIC CONDITIONS**

**1. Water Quality Certification** The NYS Department of Environmental Conservation hereby certifies that the subject project will not contravene effluent limitations or other limitations or standards under Sections 301, 302, 303, 306 and 307 of the Clean Water Act of 1977 (PL 95-217) provided that all of the conditions listed herein are met.



**GENERAL CONDITIONS - Apply to ALL Authorized Permits:**

**1. Facility Inspection by The Department** The permitted site or facility, including relevant records, is subject to inspection at reasonable hours and intervals by an authorized representative of the Department of Environmental Conservation (the Department) to determine whether the permittee is complying with this permit and the ECL. Such representative may order the work suspended pursuant to ECL 71- 0301 and SAPA 401(3).

The permittee shall provide a person to accompany the Department's representative during an inspection to the permit area when requested by the Department.

A copy of this permit, including all referenced maps, drawings and special conditions, must be available for inspection by the Department at all times at the project site or facility. Failure to produce a copy of the permit upon request by a Department representative is a violation of this permit.

**2. Relationship of this Permit to Other Department Orders and Determinations** Unless expressly provided for by the Department, issuance of this permit does not modify, supersede or rescind any order or determination previously issued by the Department or any of the terms, conditions or requirements contained in such order or determination.

**3. Applications For Permit Renewals, Modifications or Transfers** The permittee must submit a separate written application to the Department for permit renewal, modification or transfer of this permit. Such application must include any forms or supplemental information the Department requires. Any renewal, modification or transfer granted by the Department must be in writing. Submission of applications for permit renewal, modification or transfer are to be submitted to:

Regional Permit Administrator

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**4. Submission of Renewal Application** The permittee must submit a renewal application at least 30 days before permit expiration for the following permit authorizations: Excavation & Fill in Navigable Waters, Freshwater Wetlands, Stream Disturbance, Water Quality Certification.

**5. Permit Modifications, Suspensions and Revocations by the Department** The Department reserves the right to exercise all available authority to modify, suspend or revoke this permit. The grounds for modification, suspension or revocation include:

- a. materially false or inaccurate statements in the permit application or supporting papers;
- b. failure by the permittee to comply with any terms or conditions of the permit;
- c. exceeding the scope of the project as described in the permit application;



- d. newly discovered material information or a material change in environmental conditions, relevant technology or applicable law or regulations since the issuance of the existing permit;
- e. noncompliance with previously issued permit conditions, orders of the commissioner, any provisions of the Environmental Conservation Law or regulations of the Department related to the permitted activity.

**6. Permit Transfer** Permits are transferrable unless specifically prohibited by statute, regulation or another permit condition. Applications for permit transfer should be submitted prior to actual transfer of ownership.

### NOTIFICATION OF OTHER PERMITTEE OBLIGATIONS

**Item A: Permittee Accepts Legal Responsibility and Agrees to Indemnification**

The permittee, excepting state or federal agencies, expressly agrees to indemnify and hold harmless the Department of Environmental Conservation of the State of New York, its representatives, employees, and agents ("DEC") for all claims, suits, actions, and damages, to the extent attributable to the permittee's acts or omissions in connection with the permittee's undertaking of activities in connection with, or operation and maintenance of, the facility or facilities authorized by the permit whether in compliance or not in compliance with the terms and conditions of the permit. This indemnification does not extend to any claims, suits, actions, or damages to the extent attributable to DEC's own negligent or intentional acts or omissions, or to any claims, suits, or actions naming the DEC and arising under Article 78 of the New York Civil Practice Laws and Rules or any citizen suit or civil rights provision under federal or state laws.

**Item B: Permittee's Contractors to Comply with Permit**

The permittee is responsible for informing its independent contractors, employees, agents and assigns of their responsibility to comply with this permit, including all special conditions while acting as the permittee's agent with respect to the permitted activities, and such persons shall be subject to the same sanctions for violations of the Environmental Conservation Law as those prescribed for the permittee.

**Item C: Permittee Responsible for Obtaining Other Required Permits**

The permittee is responsible for obtaining any other permits, approvals, lands, easements and rights-of-way that may be required to carry out the activities that are authorized by this permit.

**Item D: No Right to Trespass or Interfere with Riparian Rights**

This permit does not convey to the permittee any right to trespass upon the lands or interfere with the riparian rights of others in order to perform the permitted work nor does it authorize the impairment of any rights, title, or interest in real or personal property held or vested in a person not a party to the permit.



DEPARTMENT OF THE ARMY  
US Army Corps of Engineers, ATTN: CENAN-OP-RU  
Upstate Regulatory Field Office  
1 Buffington St., Building 10, 3<sup>rd</sup> Fl. North  
Watervliet, New York 12189-4000

REPLY TO  
ATTENTION OF

Upstate New York Section

April 19, 2013

SUBJECT: Permit Application No. NAN-2013-00158  
by Essex County Department of Public Works  
Town of North Elba, Essex County, New York

Anthony LaVigne  
Essex County Department of Public Works  
8053 US Route 9  
Elizabethtown, New York 12932

Dear Mr. Lavigne:

This office has reviewed your Joint Application Form dated January 31, 2013, and the attached drawings C-1 through C-3, entitled "Adirondack Loj Road Over South Meadow Brook", prepared by Schoder Rivers Associates, and dated January 10, 2013. An additional drawing numbered SK-1, entitled "Adirondack Loj Road Over S. Meadow Brook", and dated March 7, 2013 was submitted on March 7, 2013. The above information describes a proposal that would consist of the following:

**The discharge of fill material into waters of the United States to facilitate the replacement of an existing bridge over South Meadow Brook that was damaged by Hurricane Irene. The work will involve the construction of new abutments behind the existing ones, resulting in an increase in the waterway opening. The existing abutments will be removed after the construction of new abutments is completed. In addition, riprap that currently exists below the ordinary high water mark will be removed from the brook as depicted on drawing SK-1. All work shall be conducted during low flow conditions between May 1 and September 30 of any calendar year.**

Additional work includes the construction of a temporary bridge that will span the waterway and will not result in any additional discharges into the brook.

Based upon the information provided, it appears that your proposed work may be authorized under Department of the Army nationwide general permit number: 3. The nationwide permits are prescribed as a Reissuance of Nationwide Permits in the Federal Register dated February 21, 2012 (77 FR 10184).

Please refer to the enclosed material for information pertaining to the nationwide general permit program. The work may be performed without further authorization from this office provided the activity complies with the terms and conditions of the Nationwide Permits (NWP) and the permit conditions listed in Section B, No. 3, Section C, any applicable New York District regional conditions, and any applicable regional conditions added by the State of New York. Please note that NWP General Condition No. 12 requires the installation and maintenance of proper soil erosion and sediment controls during construction.

This verification is valid until March 18, 2017, unless the nationwide permit is modified, reissued, or revoked. This verification will remain valid until March 18, 2017, if the activity complies with the terms of any subsequent modifications of the nationwide permit authorization. If the nationwide permits are suspended, revoked, or modified in such a way that the activity would no longer comply with the terms and conditions of a nationwide permit, and the proposed activity has commenced, or is under contract to commence, the permittee shall have 12 months from the date of such action to complete the activity.

Please note that this nationwide permit (NWP) authorization is based on a preliminary jurisdictional determination (JD). A preliminary JD is not appealable. If you wish, prior to commencement of the authorized work you may request an approved JD, which may be appealed, by contacting the New York District, U.S. Army Corps of Engineers for further instruction. To assist you in this decision and address any questions you may have on the differences between preliminary and approved jurisdictional determinations, please review the U.S. Army Corps of Engineers Regulatory Guidance Letter (RGL) No. 08-02, which can also be found at:

<http://www.usace.army.mil/Portals/2/docs/civilworks/RGLS/rgl08-02.pdf>

Please note that this determination does not eliminate the need to obtain any other Federal, State or local authorizations required by law for the above described work, including any required permit from the NYSDEC.

In order for us to better serve you, please complete our Customer Service Survey located at:

<http://per2.nwp.usace.army.mil/survey.html>

Any inquiries can be directed to the undersigned at (518) 266-6358.

Sincerely,



Kevin Bruce  
Project Manager  
Upstate New York Section

Enclosures

Cf (email): NYSDEC Region 5, Ray Brook, DEC #5-1540-00399/00001  
Schoder Rivers Associates  
Town of North Elba



REPLY TO  
ATTENTION OF  
CENAN-OP-RU

DEPARTMENT OF THE ARMY  
US Army Corps of Engineers, ATTN: CENAN-OP-RU  
Upstate Regulatory Field Office  
1 Buffington St., Building 10, 3<sup>rd</sup> Fl. North  
Watervliet, New York 12189-4000

NATIONWIDE PERMIT COMPLIANCE CERTIFICATION AND REPORT FORM

Permittee: Essex County Department of Public Works Permit No. NAN-2013-00158

Date Permit Issued: April 19, 2013

Location: Town of North Elba, Essex County, New York

Within 30 days of the completion of the activity authorized by this permit and any mitigation required by the permit, sign this certification and return it to the address at the bottom of this form.

Please note that your permitted activity is subject to a compliance inspection by a U.S. Army Corps of Engineers representative. If you fail to comply with this permit you are subject to permit suspension, modification or revocation.

I hereby certify that the work authorized by the above referenced permit has been completed in accordance with the terms and conditions of said permit, and required mitigation was completed in accordance with the permit conditions.

\_\_\_\_\_  
Signature of Permittee

\_\_\_\_\_  
Date

Fold this form into thirds, with the bottom third facing outward. Tape it together and mail to the address below or FAX to (518) 266-6366.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
Place Stamp  
Here

DEPARTMENT OF THE ARMY  
US Army Corps of Engineers  
ATTN: CENAN-OP-RU  
Upstate Regulatory Field Office  
1 Buffington St., Bldg. 10, 3<sup>rd</sup> Fl. North  
Watervliet, New York 12189-4000





March 4, 2013

Anthony LaVigne  
DPW Superintendent  
Essex County DPW  
8053 US Route 9  
Elizabethtown, NY 12932

Dear Mr. LaVigne:

**RE: Jurisdictional Determination J2013-0043**

The proposed bridge replacement project as described in the materials submitted on January 31, 2013 does not require a permit or variance from this Agency, provided the facts submitted are accurate and complete, and provided there is compliance with the restrictions below.

**Description**

It is our understanding that the project consists of the following:

1. The property is a 640.39±-acre parcel having shoreline on Heart Lake and the West Branch of the AuSable River, and is located in the Town of North Elba, Essex County, on Adirondack LOJ Road, tax map designation 60-1-13.
2. The property is owned by Adirondack Mountain Club, Inc., as described in a deed recorded on April 7, 1959 in Liber 367 of Deeds, page 505 in the Essex County Clerk's Office.
3. According to the information you submitted, the property was not part of a larger parcel as of the May 22, 1973 enactment date of the Adirondack Park Land Use and Development Plan; nor did the owner on that date own any adjoining property.
4. The property is subject to several Agency permits including P81-0148, P90-0015 & 0015A, and P93-0335.

5. During Hurricane Irene the bridge was damaged and you propose to install a temporary single-lane bridge to be used while the existing 43± foot long, two-lane bridge is removed, and the proposed 70± foot long, two-lane replacement bridge is constructed in the same immediate vicinity. The replacement bridge will be longer to afford construction of the abutments on undisturbed soil, but will remain on the same horizontal and vertical roadway alignment, and the Department of Environmental Conservation will be issuing an Article 15 permit for the bridge construction. The proposed bridge replacement is shown on the maps entitled, "Adirondack LOJ Road Over South Meadow Brook Bridge Replacement, BIN 3302120, Location Map," "Notes, Drawing No. N-1," "Erosion and Sediment Control Plan, C-1," "Removals and Temporary Bridge Plan, C-2," "Site Plan, C-3," "Profiles and Details, C-4," "Temporary Abutment Details, C-5," "Superstructure Plan and Sections, S-1," "Abutment Plans and Elevations, S-2," "Abutment Sections and Details, S-3," and "Details, S-4," all dated January 10, 2013 - except for S-3 dated January 4, 2013, and all received on January 31, 2013.

No additional land use, development, or subdivision is proposed at this time.

If any of the above is incorrect, please contact the Agency as a different determination could result.

**FOR YOUR INFORMATION:**

This determination is based upon the existing laws, regulations and Park Plan Map administered by the Agency. If they change before substantial commencement of the proposed project, this determination may also change.

The property is located in a Resource Management land use area on the Adirondack Park Land Use and Development Plan Map.

Agency staff has determined that no wetlands subject to Agency jurisdiction on the property will be involved or affected by the proposed bridge replacement, based on interpretation of aerial photography and wetland maps available to the Agency.

The portion of the property within one-eighth mile (660 feet) of the New York State designated High Peaks Wilderness is in a statutory critical environmental area. Since no new land use or development is proposed within this critical environmental area, no Agency permit is required.

The property is located in a designated river area pursuant to the New York State Wild, Scenic and Recreational Rivers System Act, as it lies over the West Branch of the AuSable River, a designated recreational river. Since the proposal is for the replacement of an existing bridge, it does not constitute a "rivers" project.

### Restrictions

Although the proposed project described above does not require an Agency permit, the following restrictions are imposed by law.

Within the boundaries of the "river area" (defined above) outside of Hamlet and Moderate Intensity Use land use areas, the following additional restrictions apply whether or not an Agency permit is required:

1. Any new structure (except for fences, poles, lean-tos, docks, boathouses, bridges and stream improvement structures for fishery management purposes) must be set back at least 150 feet from the mean high-water mark (the average annual high water level) of the river. All distances specified in the shoreline restrictions are measured horizontally. Building setback restrictions are measured along the shortest line between any point of the structure and any point on the mean high-water mark. Porches, decks and other structures physically attached to single family dwellings or to other structures subject to the building setback restrictions are part of the structure for purposes of applying the building setback restriction.
2. The following shoreline vegetative cutting restrictions also apply to the shoreline of the West Branch of the AuSable River:
  - a. Inside the mean high-water mark of the river or within 100 feet of the mean high-water mark, no trees or other vegetation shall be harvested, cut, culled, removed, thinned or otherwise disturbed, with certain limited exceptions set forth on the enclosed River Area Cutting Restrictions Flyer.

b. For any cutting that is allowed pursuant to "a" above, the following additional restrictions must also be complied with:

(i) Within 35 feet of the mean high-water mark not more than 30 percent of the trees in excess of six inches diameter at breast height (4 1/2 feet above ground) existing at any time may be cut over any 10-year period.

(ii) Within six feet of the mean high-water mark no existing vegetation of any kind may be removed, except that up to a maximum of 30 percent of the shorefront may be clear of vegetation on any individual lot. This requirement applies in addition to (i) above.

c. Between 100 feet from the mean high-water mark of the river and the exterior boundary of the river area additional restrictions apply (See enclosed River Area Cutting Restrictions Flyer.)

d. Additional restrictions and standards apply to certain types of projects in river areas, including subdivisions, roads, bridges and others; also most such projects in river areas (outside of Hamlet and Moderate Intensity Use) require an Agency permit. (Please see Part 577 of Agency regulations or contact the Agency directly.)

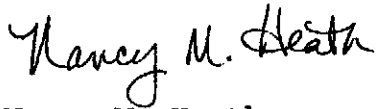
3. Pursuant to §577.6(c)(3) of the Adirondack Park Agency Rules and Regulations, no trees shall be felled into the river if avoidable, and any logging debris which may enter the river shall be removed. Any logging debris which may enter the area inside the mean high water mark of the river or within 100 feet of the mean high water mark shall also be removed, or lopped, for hardwoods, in such fashion that no such debris measured higher than four feet from ground level, and for conifers, in accordance with Section 9-1113 of the Environmental Conservation Law.
4. Projects must be undertaken in accord with Agency regulations implementing the State Freshwater Wetlands Act. Enclosed is a flyer describing some of the activities which require a wetlands permit.

Anthony LaVigne  
March 4, 2013  
Page 5

The proposal may require approvals from other government entities. We recommend that you check with Town authorities and the New York State Department of Environmental Conservation to obtain all necessary approvals prior to beginning your project.

If you have any questions, please do not hesitate to contact the Agency.

Sincerely,

A handwritten signature in cursive script that reads "Nancy M. Heath".

Nancy M. Heath  
Project Administrator

NMH:BMF:mp  
Enclosures: Rivers and Wetlands Flyers

cc: Adirondack Mountain Club  
Erin L. Burns, DEC Ray Brook (via e-mail)  
James E. Morganson, (T) North Elba Code Officer (via e-mail)



GENERAL NOTES

1. DESIGN SPECIFICATIONS: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 6TH EDITION – 2012, INCLUDING ALL CURRENT REVISIONS.
2. MATERIAL SPECIFICATIONS: NEW YORK STATE DEPARTMENT OF TRANSPORTATION (NYSOT) STANDARD SPECIFICATIONS, CONSTRUCTION AND MATERIALS, 2008 DATED TO THE JANUARY 10, 2013 LETTING.
3. STREAM PROTECTION: DURING THE COURSE OF CONSTRUCTION, THE WORK SHALL BE CONDUCTED IN A MANNER AS TO PREVENT OR REDUCE TO A MINIMUM ANY DAMAGE TO THE STREAM FROM POLLUTION BY DEBRIS, SEDIMENT OR OTHER FOREIGN MATERIAL, OR FROM MANIPULATION OF EQUIPMENT AND/OR MATERIALS IN OR NEAR THE STREAM.
4. WATER WHICH HAS BEEN USED FOR WASH PURPOSES OR OTHER SIMILAR OPERATIONS WHICH CAUSE THIS WATER TO BECOME POLLUTED WITH SAND, SILT, CEMENT, OIL, OR OTHER IMPURITIES, SHALL NOT BE RETURNED DIRECTLY TO THE STREAM. IF WATER IS USED FROM THE STREAM, AN INTAKE OR TEMPORARY DAM SHALL BE CONSTRUCTED TO PROTECT AND MAINTAIN WATER RIGHTS AND TO PROTECT FISH LIFE DOWNSTREAM.
5. DUE TO THE NATURE OF RECONSTRUCTION PROJECTS, THE EXACT EXTENT OF RECONSTRUCTION WORK CANNOT ALWAYS BE ACCURATELY DETERMINED PRIOR TO THE COMMENCEMENT OF WORK. THE CONSTRUCTION DOCUMENTS HAVE BEEN PREPARED BASED ON FIELD INSPECTIONS AND OTHER AVAILABLE INFORMATION. ACTUAL FIELD CONDITIONS MAY REQUIRE MODIFICATIONS TO THE CONSTRUCTION DETAILS AND WORK QUANTITIES.
6. THE OWNER HAS OBTAINED PERMITS FOR THIS PROJECT FROM APPROPRIATE REGULATORY AGENCIES. PERMIT CONDITIONS SHALL BE CONSIDERED A PART OF THIS WORK AND SHALL BE STRICTLY ADHERED TO.
7. UNDERGROUND PIPELINE AND UTILITY LOCATIONS, IF INDICATED ARE BASED ON VISUAL EVIDENCE ABOVE EXISTING GRADE AND ARE APPROXIMATE ONLY. THE LOCATIONS OF ALL UTILITIES SHALL BE DETERMINED PRIOR TO COMMENCING CONSTRUCTION AND PROTECTED OR REROUTED AS REQUIRED TO PREVENT DAMAGE OR INTERRUPTION OF UTILITY SERVICE.
8. SUBMITTALS: THE CONTRACTOR SHALL SUBMIT MIN. (5) COPIES OF SHOP DRAWINGS AND SUBMITTALS FOR THE FOLLOWING ITEMS FOR REVIEW BY ESSEX COUNTY AND THE ENGINEER. IN LIEU OF (5) HARD COPIES, (1) COPY OF SHOP DRAWINGS AND SUBMITTALS MAY BE TRANSMITTED ELECTRONICALLY. THESE SUBMITTALS SHALL BE PERMITTED UNTIL THE SUBMITTALS HAVE BEEN REVIEWED AND ACCEPTED.

A. PRESTRESSED CONCRETE NORTHEAST EXTREME BRIDGE TEE DECK (NEXT-BEAM) CALCULATIONS

B. PRESTRESSED CONCRETE NORTHEAST EXTREME BRIDGE TEE DECK (NEXT-BEAM) SHOP DRAWINGS

C. CONCRETE MIX DESIGNS

D. CONCRETE REINFORCING STEEL SHOP DRAWINGS

E. ELASTOMERIC BEARING PADS

F. SILT FENCE

G. ADHESIVE GROUT

H. JOINT SEALANTS AND CAULKING

I. WATERPROOFING MEMBRANE

J. BRIDGE RAIL AND GUIDE RAIL SHOP DRAWINGS

K. SHEET PILE MILLING CERTIFICATES

L. SHEET PILE LAYOUT SHOP DRAWINGS

M. BACKFILL MATERIALS

N. DEWATERING PLAN
9. THE WORK SHALL CONFORM WITH THE REQUIREMENTS OF NYSOT SPEC SECTION 107-05 – “SAFETY AND HEALTH REQUIREMENTS” AT ALL TIMES.
10. THE FOLLOWING ITEMS OF WORK SHALL BE PERFORMED BY ESSEX COUNTY AND ARE NOT A PART OF THE CONTRACT:

– NEW ASPHALT PAVEMENT AT THE APPROACH ROADWAYS FROM THE ENDS OF THE BRIDGE APPROACH SLABS TO THE ASPHALT REMOVAL LIMITS INDICATED.

– TEMPORARY BRIDGE AND SUBSTRUCTURE CONSTRUCTION.

– TEMPORARY ROADWAY CONSTRUCTION, INCLUDING TEMP. CULVERT. INSTALLATION.

– REMOVAL OF TEMPORARY BRIDGE AND TEMPORARY ABUTMENTS.
11. THE SAFE MAINTENANCE AND PROTECTION OF TRAFFIC IN AND AROUND THE SITE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR DURING THE COURSE OF THE WORK.

SURVEY NOTES

1. ELEVATIONS ARE BASED ON AN ARBITRARY VERTICAL DATUM.
2. TWO FOOT CONTOUR INTERVAL INDICATED.
3. THE LAYOUT OF ALL WORK FOR THE PROJECT SHALL BE COMPLETED BY A LICENSED SURVEYOR RETAINED BY THE CONTRACTOR.

EROSION CONTROL NOTES

1. ALL SILT FENCES SHALL BE IN PLACE AT LOCATIONS INDICATED IN ACCORDANCE WITH THE DETAILS BEFORE COMMENCEMENT OF ANY DISTURBANCE OF EXISTING GROUND SURFACE.
2. ALL EXPOSED CUT AND FILL EARTHWORK SURFACES SHALL BE COVERED WITH MIN. 3" OF TOPSOIL CONFORMING TO NYSOT SPEC. SECTION 613 AND TURFED IN ACCORDANCE WITH NYSOT SPEC. SECTION 610, UNLESS NOTED TO BE COVERED BY PAVEMENT OR STRUCTURES.
3. ALL AREAS UNWORKED FOR MORE THAN 14 DAYS MUST BE SEEDED WITH ANNUAL RYE GRASS AND PROTECTED WITH STRAW MULCH.
4. AFTER EVERY STORM EVENT IN EXCESS OF 1/2" RAINFALL, INSPECT ALL SILT FENCES. REMOVE ACCUMULATED MATERIAL, FILL ERODED AREAS AND RESET SILT FENCES.
5. ENCLOSE ALL STOCKPILES WITH SILT FENCE.
6. EROSION CONTROL MEASURES SHALL CONFORM WITH THE REQUIREMENTS OF NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL.
7. THE CONTRACTOR SHALL PROVIDE A DUMPSTER ON-SITE FOR DISPOSAL OF DEBRIS, GARBAGE AND LITTER.
8. SILT FENCES SHALL REMAIN IN PLACE UNTIL A STABLE GROWTH OF TURF IS PRESENT AT ALL DISTURBED AREAS.
9. THE CONTRACTOR SHALL PROVIDE AN APPROVED SECONDARY CONTAINMENT SYSTEM FOR ALL FUEL AND PETROLEUM PRODUCTS TEMPORARILY STORED ON THE SITE.
10. THE TEMPORARY CULVERT SHALL BE INSTALLED PRIOR TO COMMENCING EXCAVATION WORK FOR CONTINUATION OF THE TEMPORARY ROADWAY.
11. CHECK DAMS AT THE SWALE ADJACENT TO THE TEMPORARY ROADWAY SHALL BE INSTALLED IMMEDIATELY AFTER ROUGH GRADING FOR THE ROADWAY IS COMPLETED.

TEMPORARY BRIDGE NOTES

1. BRIDGE DESIGN CRITERIA: THE TEMPORARY BRIDGE SHALL BE A MALEY BRIDGE OWNED BY ESSEX COUNTY. THE TEMPORARY BRIDGE AND ABUTMENTS SHALL BE INSTALLED BY ESSEX COUNTY. THE INSTALLED TEMPORARY BRIDGE SHALL HAVE A LIVE LOAD RATING OF HS-20.
2. THE TEMPORARY BRIDGE SHALL BE A ONE LANE BRIDGE. ESSEX COUNTY HIGHWAY DEPARTMENT SHALL DESIGN AND PROVIDE ALL APPROPRIATE TRAFFIC CONTROLS, SIGNAGE, BARRICADES AND SIMILAR DEVICES AS REQUIRED TO SAFELY DIRECT TRAFFIC ONTO THE TEMPORARY ROADWAY AND TO CONTROL TRAFFIC FLOW FOR SINGLE LANE OPERATION.
3. THE FOUNDATION AND ABUTMENT SYSTEM INDICATED IS INTENDED FOR TEMPORARY USE ONLY. MOVEMENT OF THE FOUNDATION AND ABUTMENT SYSTEM DUE TO FROST ACTION MAY RESULT AS A FUNCTION OF LONG-TERM USE.
4. ALL PRESSURE TREATED LUMBER SHALL BE MIN. 0.4#/.C.F. RETENTION, NO. 2 GRADE SYP, OR BETTER.
5. ALL HARDWARE SHALL BE GALVANIZED.
6. BEARINGS FOR THE MABEY BRIDGE STRUCTURE SHALL BE CENTERED ON THE FOOTINGS AND SHALL BE ANCHORED WITH 7/8"X12" MIN. EMBED. DRILLED-IN ANCHOR BOLTS SET IN EPOXY ADHESIVE CONFORMING TO NYSOT STANDARD SPECIFICATION SECTION 701-07.

DEMOLITION AND REMOVAL NOTES

1. THE CONTRACTOR SHALL VISIT THE SITE AND VERIFY ALL DEMOLITION QUANTITIES AND CONDITIONS WHICH MAY EFFECT THE WORK AND SHALL INCLUDE IN HIS BID ALL COSTS ASSOCIATED WITH THE REQUIRED DEMOLITION OF THE EXISTING STRUCTURES.
2. DURING DEMOLITION AND REMOVAL OPERATIONS, DO NOT DROP WASTE CONCRETE, TIMBER, STEEL, DEBRIS OR OTHER MATERIAL INTO THE AREA BELOW. PLATFORMS, NETS, SCREENS OR OTHER PROTECTIVE DEVICES SHALL BE USED TO CATCH DEMOLITION DEBRIS. IF, IN THE OPINION OF THE ENGINEER, ADEQUATE PROTECTION DEVICES ARE NOT BEING EMPLOYED, THE WORK SHALL BE SUSPENDED UNTIL ADEQUATE PROTECTION IS PROVIDED. ANY DEBRIS FALLING INTO THE WATERWAY SHALL BE PROMPTLY REMOVED.
3. THE CONTRACTOR SHALL EXERCISE DUE CARE SUCH THAT ANY MATERIALS THAT ARE TO REMAIN IN PLACE OR THAT WILL REMAIN THE PROPERTY OF ESSEX COUNTY WILL NOT BE DAMAGED. ANY SUCH ITEMS DAMAGED DURING THE COURSE OF WORK SHALL BE REPLACED OR REPAIRED TO THE SATISFACTION OF ESSEX COUNTY AT THE EXPENSE OF THE CONTRACTOR.
4. UNLESS SPECIFICALLY NOTED OTHERWISE, ALL ITEMS TO BE REMOVED IN THE CONTRACT SHALL BE DISPOSED OF OFF-SITE IN A LEGAL MANNER.
5. ALL ITEMS INDICATED TO BE SALVAGED SHALL BE DELIVERED TO THE TOWN OF NORTH ELBA HIGHWAY DEPARTMENT GARAGE AND OFF-LOADED BY THE CONTRACTOR.

EARTHWORK NOTES

1. EXCAVATION SHALL BE TO ELEVATIONS INDICATED WITH A TOLERANCE OF PLUS OR MINUS 1". EXCAVATIONS SHALL BE OF SUFFICIENT SIZE FOR PLACING AND REMOVING FORMS, AS WELL AS INSPECTIONS.
2. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL STAKE OUT ALL IMPROVEMENTS AND VERIFY GRADES AND ELEVATIONS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
3. BACKFILL MATERIALS SHALL BE SELECT STRUCTURAL FILL CONFORMING WITH NYSOT SPEC SECTION 203. ALL BACKFILL SHALL BE PLACED IN MAXIMUM 12" LIFTS AND COMPACTED TO 95% OF THE MAXIMUM DENSITY AS ESTABLISHED THROUGH THE MODIFIED PROCTOR COMPACTION TEST PER ASTM D1557.
4. MATERIAL STOCKPILES, IF REQUIRED, SHALL BE LOCATED WHOLLY WITHIN THE WORK AREA. ADDITIONAL SILT FENCES SHALL BE PROVIDED AT THE BASE OF ALL STOCKPILES AND AS DIRECTED IN THE FIELD BY THE ENGINEER OR THE OWNER.
5. ALL TRENCHES AND OTHER EXCAVATED SIDE SLOPES INDICATED ON THE DRAWINGS ARE DIAGRAMATIC ONLY AND ARE NOT INTENDED TO INDICATE A STABLE EXCAVATION SLOPE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ADEQUACY AND STABILITY OF ALL EXCAVATION SLOPES, SHEETING, SHORING, TRENCH BOXES, AND ANY OTHER MEANS REQUIRED FOR A SAFE WORK ENVIRONMENT AND FOR PROTECTION OF ADJACENT ROADWAYS AND OTHER STRUCTURES. ALL EXCAVATION WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE FOLLOWING REGULATORY AGENCIES:

–SUBPART 23-4, "EXCAVATION OPERATIONS", OF NEW YORK DEPARTMENT OF LABOR INDUSTRIAL CODE RULE 23.

–SUBPART P, "EXCAVATIONS" OF THE UNITED STATES DEPARTMENT OF LABOR OSHA REGULATIONS FOR CONSTRUCTION.

–ALL OTHER MUNICIPAL, COUNTY, STATE OR FEDERAL AGENCIES, REGULATIONS OR LAWS PERTAINING TO EXCAVATION SAFETY AS MAY APPLY AT THE WORK SITE.
6. THE MORE STRINGENT PROVISION IN EACH OF THE ABOVE CODES SHALL APPLY. THESE PROVISIONS SHALL BE CONSIDERED MINIMUM REQUIREMENTS AND SHALL BE INCREASED IF NECESSARY TO PROVIDE SAFE WORKING CONDITIONS.
7. ALL NEW GRADES SHALL BE BLENDED SMOOTHLY WITH EXISTING GRADES TO PROVIDE A SMOOTH TRANSITION BETWEEN NEW GRADING AND EXISTING SURFACES TO REMAIN.
8. GEOTEXTILE FABRIC SHALL COMPLY WITH NYSOT STANDARD SPEC SECTION 207. ALL FABRIC SHALL APPEAR ON THE NYSOT LIST OF APPROVED MATERIALS FOR THE USAGE INDICATED.
9. THE OWNER SHALL RETAIN AN INDEPENDENT QUALIFIED GEOTECHNICAL TESTING AGENCY TO PERFORM SOIL COMPACTION TESTING. SUBMIT ONE COPY OF ALL TEST REPORTS TO THE OWNER AND THE ENGINEER. FIELD IN-PLACE DENSITY TESTS SHALL BE PERFORMED BY EITHER ASTM D1556 (SAND CONE METHOD) OR ASTM D2922 (NUCLEAR METHOD). TESTS SHALL BE PERFORMED IN ALL BACKFILL, ONE TEST PER 250 SQUARE FEET OF BACKFILL SURFACE, MINIMUM (2) TESTS PER LIFT.
10. TOPSOIL, SEEDING AND MULCHING SHALL COMPLY WITH NYSOT STANDARD SPEC. SECTION 713.

10. CONTRACTOR SHALL NOTE THAT AMBIENT AIR TEMPERATURE DURING THE CONSTRUCTION PERIOD FOR THIS PROJECT MAY BE BELOW FREEZING. CONTRACTOR SHALL PROTECT ALL SUBGRADES AND PREVIOUSLY INSTALLED BACKFILL LIFTS FROM FREEZING. COSTS FOR ALL BLANKETS, GROUND HEATERS OR OTHER ACCEPTABLE METHODS AS REQUIRED TO PROTECT IN-PLACE SOILS FROM FREEZING SHALL BE INCLUDED IN HIS BID. THE PLACEMENT OF FILL MATERIALS ON FROZEN SOILS OR USE OF FROZEN BACKFILL MATERIALS IS STRICTLY PROHIBITED.
11. THE SAFE MAINTENANCE AND PROTECTION OF TRAFFIC IN AND AROUND THE SITE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR DURING THE COURSE OF THE WORK.
12. THE BRIDGE SHALL BE CLOSED TO ALL TRAFFIC DURING THE COURSE OF THE WORK. DETOUR SIGNAGE FOR THE CLOSURE OF THE BRIDGE SHALL BE PROVIDED AND INSTALLED BY THE OWNER.
13. TEMPORARY CONCRETE BARRIERS AND LIGHTED CLOSURE BARRICADES SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR AT EACH END OF THE CLOSED ROADWAY BEFORE COMMENCING WORK. BARRIERS AND BARRICADES SHALL REMAIN IN PLACE UNTIL THE WORK IS COMPLETE.

CONCRETE NOTES

1. CAST-IN-PLACE CONCRETE FOR THE FOR THE ABUTMENTS AND WINGWALLS SHALL CONFORM TO NYSOT SPEC. SECTION 501, CLASS A.
2. HIGH PERFORMANCE CONCRETE FOR THE APPROACH SLABS AND FLANGE JOINT CONSTRUCTION SHALL BE IN STRICT CONFORMANCE WITH THE REQUIREMENTS OF NYSOT SPEC. SECTIONS 501 AND 718-06, CLASS HP.
3. CONCRETE WORK SHALL BE PERFORMED IN STRICT CONFORMANCE WITH THE REQUIREMENTS OF NYSOT SPEC. SECTION 555, "STRUCTURAL CONCRETE".
4. CONTRACTOR TO NOTE THAT AMBIENT AIR TEMPERATURE DURING THE CONSTRUCTION PERIOD ANTICIPATED FOR CONSTRUCTION OF CONCRETE WORK FOR THIS PROJECT MAY REQUIRE PROVISIONS FOR COLD WEATHER CONCRETING. CONTRACTOR SHALL INCLUDE IN HIS BID ALL LABOR AND MATERIALS NECESSARY FOR SUCH COLD WEATHER CONCRETING PROVISIONS SHALL BE PERMITTED.
5. APPROACH SLAB WEARING SURFACES SHALL BE TEXTURED WITH AN ARTIFICIAL TURF DRAG FINISH. TEXTURING SHALL BE APPLIED IN THE SAME DIRECTION AS THE SUPERSTRUCTURE FINISH IN STRICT CONFORMANCE WITH THE REQUIREMENTS OF NYSOT SPEC. SECTION 557.
6. ALL REINFORCING STEEL SHALL BE EPOXY COATED IN CONFORMANCE WITH THE REQUIREMENTS OF NYSOT SPEC SECTION 709-04, UNLESS NOTED OTHERWISE. REINFORCING STEEL SHALL BE PLACED IN CONFORMANCE WITH THE REQUIREMENTS OF NYSOT SPEC. SECTION 556.
7. ADHESIVE FOR GROUTING REINFORCING DOWELS INTO EXISTING CONCRETE SHALL BE HILTI HY 150 INJECTION ADHESIVE AS MANUFACTURED BY HILTI CORP. OR EQUIVALENT.
8. EPOXY ADHESIVE FOR BONDING FRESH CONCRETE TO EXISTING CONCRETE SHALL BE SIKA ARMACTE 110 AS MANUFACTURED BY SIKA CORP. OR EQUIVALENT.
9. NON-SHRINK GROUT SHALL BE "5-STAR" GROUT AS MANUFACTURED BY FIVE STAR PRODUCTS, INC. OR EQUIVALENT. MIX AND PLACE GROUT IN CONFORMANCE WITH MANUFACTURER'S RECOMMENDATIONS.
10. THE OWNER SHALL RETAIN A TESTING LABORATORY CERTIFIED BY THE NYS DEPARTMENT OF TRANSPORTATION TO CONDUCT CONCRETE TESTING DURING CONSTRUCTION. REPRESENTATIVES OF THE TESTING LABORATORY SHALL BE PRESENT ON-SITE DURING ALL CONCRETE PLACEMENT OPERATIONS AS SPECIFIED IN NYSOT SPEC. SECTION 555. THE FOLLOWING TESTING SHALL BE PERFORMED:

–SAMPLING FRESH CONCRETE: ASTM C172 EXCEPT AS MODIFIED FOR SLUMP TO COMPLY WITH ASTM C94.

–SLUMP: ASTM C143, ONE TEST AT THE POINT OF DISCHARGE FOR EACH SET OF COMPRESSIVE TEST SPECIMENS. PERFORM ADDITIONAL TESTS WHEN THE CONSISTENCY OF THE CONCRETE APPEARS TO CHANGE.

–AIR CONTENT: ASTM C173, VOLUMETRIC METHOD OR ASTM C231, PRESSURE METHOD FOR EACH SET OF COMPRESSIVE TEST SPECIMENS.

–CONCRETE TEMPERATURE: ASTM C1064 FOR EACH SET OF COMPRESSIVE TEST SPECIMENS. TEST HOURLY WHEN AIR TEMPERATURE FALLS BELOW 40 DEG. F. OR WHEN AIR TEMPERATURE EXCEEDS 80 DEG. F.

–COMPRESSIVE TEST SPECIMENS: ASTM C31 ONE SET OF 4 STANDARD CYLINDERS FOR EACH COMPRESSIVE STRENGTH TEST. MOLD AND STORE CYLINDERS FOR LABORATORY CURED TEST SPECIMENS.

–COMPRESSIVE STRENGTH TESTS: ASTM C39, ONE SET FOR EACH DAY'S PLACEMENT EXCEEDING 5 CU. YDS. PLUS ONE ADDITIONAL SET FOR EACH ADDITIONAL 20 CU. YDS. PLACED IN ANY ONE DAY. TEST ONE SAMPLE AT 7 DAYS AND TWO AT 28 DAYS. WITH ONE SAMPLE HELD IN RESERVE FOR LATER TESTING. WHEN FREQUENCY OF TESTING WILL PROVIDE LESS THAN 5 STRENGTH TESTS CONDUCT ADDITIONAL TESTS FROM RANDOMLY SELECTED BATCHES.

–TEST REPORTS: TEST RESULTS WILL BE REPORTED IN WRITING TO ESSEX CO, DPW AND TO THE ENGINEER WITHIN 24 HOURS OF THE TESTS. REPORTS SHALL CONTAIN THE PROJECT IDENTIFICATION NAME AND NUMBER, DATE OF PLACEMENT, NAME OF THE TESTING SERVICE, CONCRETE TYPE AND CLASS, LOCATION OF THE CONCRETE IN THE STRUCTURE, DESIGN COMPRESSIVE STRENGTH, BATCH PROPORTIONS AND MATERIALS, COMPRESSIVE BREAKING STRENGTH AND TYPE OF BREAK FOR BOTH 7 AND 28 DAYS TESTS.
11. SILICONE JOINT SEALANT MATERIAL SHALL BE IN STRICT CONFORMANCE WITH THE REQUIREMENTS OF NYSOT SPECIAL SPEC. ITEM 567.51010003.
12. CAULKING COMPOUND SHALL BE IN STRICT CONFORMANCE WITH THE REQUIREMENTS OF NYSOT STANDARD SPEC. SECTION 705-06.

BRIDGE AND GUIDERAIL NOTES

1. GUIDERAIL SHALL COMPLY WITH THE PROVISIONS OF THE NEW YORK STATE STANDARD SPECIFICATIONS – CONSTRUCTION AND MATERIALS 2008 SECTIONS 606 AND 710-21.
2. FABRICATION AND INSTALLATION OF GUIDERAIL SHALL COMPLY WITH NYSOT STANDARD DETAIL SHEET 606-04, BOX BEAM GUIDERAIL.
3. FABRICATION AND INSTALLATION OF BRIDGE RAIL SHALL COMPLY WITH NYSOT BRIDGE DESIGN DETAIL SHEET BD-RL36 TO BD-RL56 "DOUBLE BOX BEAM BRIDGE RAIL CURBLESS FOR LOW VOLUME BRIDGES".
4. BRIDGE RAIL SUPPLIER SHALL SUPPLY ANCHORS FOR THE BRIDGE RAIL. COORDINATE ANCHOR SPACING AND LOCATION WITH THE CONTRACTOR.
5. ANCHOR ROD MATERIAL SHALL CONFORM TO ASTM F1554, GRADE 36 MATERIAL. ANCHORS SHALL BE SUPPLIED WITH HEAVY HEX NUTS CONFORMING TO ASTM A563 AND HARDENED CARBON STEEL WASHERS CONFORMING TO ASTM F436.
6. ALL STEEL SHAPES, PLATES, ETC. FOR THE GUIDERAIL AND BRIDGE RAIL SHALL BE HOT-DIP GALVANIZED CONFORMING WITH ASTM A123 AND NYSOT SPEC. SECTION 719-01. REPAIRS TO DAMAGED GALVANIZING SHALL COMPLY WITH NYSOT SPEC. SECTION 719-01.
7. STEEL BOLTS, NUTS, WASHERS AND MISC. HARDWARE SHALL BE HOT DIP GALVANIZED CONFORMING WITH ASTM A153 AND NYSOT SPEC. SECTION 719-01.

ELASTOMERIC BEARING NOTES

1. ELASTOMERIC BRIDGE BEARINGS SHALL BE NYSOT TYPE "EL" CONFORMING WITH NYSOT STANDARD SPECIFICATION SECTION 565 AND 716-11 AND BRIDGE DESIGN DETAIL SHEET BD-BG1E.
2. ALL ELASTOMER SHALL BE 50 DUROMETER ON THE SHORE "A" SCALE.
3. ANCHOR RODS SHALL BE DRILLED AND GROUTED IN CONFORMANCE WITH NYSOT STANDARD SPECIFICATION SECTIONS 586-2 AND 586-3.
4. PREMOULDED RESILIENT JOINT FILLER SHALL BE IN CONFORMANCE WITH NYSOT STANDARD SPECIFICATION SECTION 705-07.
5. ASPHALT FILLER AROUND EXPANSION END ANCHOR DOWELS SHALL BE IN CONFORMANCE WITH NYSOT STANDARD SPECIFICATION SECTION 702-0700.
6. CONCRETE GROUTING MATERIAL AROUND FIXED END ANCHOR DOWELS SHALL BE IN CONFORMANCE WITH NYSOT STANDARD SPECIFICATION SECTIONS 721-03, 721-01, 701-05 OR 701-06.

BRIDGE SUPERSTRUCTURE NOTES

1. THE BRIDGE SUPERSTRUCTURE SYSTEM SHALL CONSIST OF PRECAST PRESTRESSED CONCRETE NORTHEAST EXTREME BRIDGE DOUBLE TEE (NEXT-BEAM) UNITS, TYPE "D" WITH AN INTEGRAL WEARING SURFACE. NEXT-BEAM UNITS SHALL HAVE A TURF DRAG FINISH ON THE INTEGRAL WEARING SURFACE. THE BRIDGE SYSTEM SHALL COMPLY WITH THE REQUIREMENTS OF THE NYSOT PRECAST CONCRETE CONSTRUCTION MANUAL (PCCM) AND AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 6TH EDITION – 2012, INCLUDING ALL CURRENT REVISIONS.
2. NEXT-BEAM UNITS SHALL INCLUDE 1'-4" THICK INTEGRAL PRECAST CONCRETE BACKWALLS AT BOTH ENDS OF BEAMS.
3. DESIGN LOADS FOR THE BRIDGE DECK SYSTEM SHALL BE AS FOLLOWS:

VEHICULAR LIVE LOAD:

HL-93 – DESIGN TRUCK OR DESIGN TANDEM AND DESIGN LANE LOAD.

DEAD LOADS:

PER AASHTO REQUIREMENTS PLUS 40 PSF ALLOWANCE FOR FUTURE ASPHALT WEARING SURFACE.
4. DEFLECTION CHECK SHALL BE INCLUDED IN THE DESIGN CALCULATIONS. MAXIMUM DEFLECTION UNDER VEHICULAR LIVE LOAD SHALL BE L/800.
5. THE PRECAST CONCRETE SUPPLIER SHALL MEET OR EXCEED THE REQUIREMENTS OF THE PCCM AND SHALL BE A MEMBER OF THE PRECAST/PRESTRESSED CONCRETE INSTITUTE. THE SUPPLIER SHALL BE REGULARLY ENGAGED IN THE DESIGN AND FABRICATION OF PRECAST PRESTRESSED CONCRETE BRIDGE UNITS FOR A MINIMUM OF 5 YEARS.
6. ALL PRECAST PRESTRESSED CONCRETE UNITS SHALL BE FABRICATED AND INSTALLED IN STRICT ACCORDANCE WITH ALL AASHTO AND PCCM REQUIREMENTS.
7. THE PRECAST CONCRETE SUPPLIER SHALL DESIGN ALL PRECAST MEMBERS UNDER THE DIRECT SUPERVISION AND CONTROL OF A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN NEW YORK STATE. ALL SHOP DRAWINGS AND CALCULATION SUBMITTALS SHALL BE SEALED AND SIGNED BY THE LICENSED DESIGN ENGINEER.
8. UPON COMPLETION OF THE BRIDGE DECK SYSTEM CONSTRUCTION, ALL TOP OF DECK AND VERTICAL DECK FASCIA SURFACES SHALL BE COATED WITH A PENETRATING TYPE PROTECTIVE SEALER APPLIED IN ACCORDANCE WITH SEALER MANUFACTURER'S RECOMMENDATIONS. THE PENETRATING SEALER SHALL BE ON THE NYSOT LIST OF APPROVED MATERIALS AND SHALL COMPLY WITH NYSOT STANDARD SPECIFICATION SECTION 717-03.
9. WATERPROOFING MEMBRANE SHALL COMPLY WITH NYSOT SPECIAL SPECIFICATION ITEM 595.5000018. WATERPROOFING MEMBRANE SHALL APPEAR ON THE NYSOT APPROVED LIST OF MATERIALS.

DEWATERING NOTES

1. DEWATERING FACILITIES SHALL BE PROVIDED BY THE CONTRACTOR TO DEWATER AREAS WHERE EXCAVATION WORK WILL BE PERFORMED AS NECESSARY TO COMPLETELY DEWATER WORK AREAS FOR NEW ABUTMENT CONSTRUCTION.
2. THE CONTRACTOR SHALL RETAIN A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN NEW YORK STATE TO DESIGN A DEWATERING SYSTEM FOR THE PROJECT. THE CONTRACTOR SHALL SUBMIT A DEWATERING PLAN, SEALED AND SIGNED BY THEIR PROFESSIONAL ENGINEER, WHICH SHALL INDICATE PROPOSED, DIVERSION PUMP SIZES AND LOCATIONS, PIPING SIZES AND OTHER ELEMENTS OF THE DEWATERING SYSTEM. THE DEWATERING PLAN SHALL BE DESIGNED TO PROVIDE A STABLE EXCAVATION DEWATERED TO A LEVEL BELOW THE BOTTOM OF FOOTING ELEVATION. THE CONTRACTOR SHALL SUBMIT THE DEWATERING PLAN, INCLUDING CALCULATIONS, SIGNED AND SEALED BY THE DEWATERING DESIGN ENGINEER, FOR REVIEW AND ACCEPTANCE BY ESSEX COUNTY AND THE NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION, BEFORE COMMENCING ANY EXCAVATION OR DEMOLITION WORK FOR THE PROJECT.
3. THE DEWATERING SYSTEM DESIGN SHALL INCLUDE PUMPS TO DISCHARGE WATER FROM THE EXCAVATION AREA TO SEDIMENT FILTRATION BAGS ENCLOSED WITHIN A SILT FENCE TO BE INSTALLED AT LOCATIONS INDICATED ON THE SITE PLAN.
4. THE CONTRACTOR SHALL PROVIDE A STANDBY PUMP OF EQUAL CAPACITY TO THE PUMPS TO BE USED IN THE DEWATERING SYSTEM.
5. THE PERMANENT SHEET PILE SCOUR PROTECTION MAY BE INTEGRATED AS PART OF THE DEWATERING PLAN SHOULD THE DESIGN ENGINEER CHOOSE TO DO SO.

SHEET PILING NOTES

1. ALL SHEET PILING SHALL CONFORM TO NYSOT STANDARD SPECIFICATION SECTION 552 FOR PERMANENT SHEETING. SHEET PILE SECTIONS SHALL CONFORM TO ASTM A328M.
2. SHEET PILING SHALL BE PZ 22 SECTIONS WITH A MINIMUM THICKNESS OF 0.375" AND A MINIMUM SECTION MODULUS OF 18.1 CUBIC INCHES PER FOOT. ALL SHEET PILES SHALL CONSIST OF NEW MATERIAL. COLD ROLLED SHEET PILING SHAPES MAY BE ACCEPTABLE PROVIDING THE THICKNESS AND SECTION MODULUS ARE GREATER THAN OR EQUAL TO THE MINIMUM VALUES OF THE PZ 22 SECTION SPECIFIED ABOVE.
3. ALL CORNERS, TEE INTERSECTIONS AND SIMILAR CHANGES IN SHEET PILE WALL ALIGNMENT SHALL BE CONSTRUCTED USING MANUFACTURER'S STANDARD PREFABRICATED SHAPES. FIELD WELDED SPECIAL SHAPES SHALL NOT BE PERMITTED.
4. SHEET PILING SHALL BE DRIVEN PLUMB AND TRUE TO LINE AND GRADE AT THE LOCATIONS AND ELEVATIONS INDICATED ON THE DRAWINGS. BOULDER MAY BE ENCOUNTERED DURING PILE INSTALLATION. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY EQUIPMENT TO INSTALL SHEET PILING TO THE DEPTHS INDICATED ON THE DRAWINGS AND PROVIDE TEMPORARY GUIDE FRAMES AS REQUIRED TO MAINTAIN SHEET PILE ALIGNMENT.

RIPRAP NOTES

1. ALL RIPRAP SHALL BE SOUND CLEAN ANGULAR STONE OF THE SIZES INDICATED ON THE DRAWINGS. RIPRAP SHALL BE FREE OF ORGANIC MATERIALS, DEBRIS, SOIL AND OTHER DELETERIOUS MATTER.
2. STONE SIZES SHALL CONFORM TO THE REQUIREMENTS OF NYSOT STANDARD SPECIFICATION SECTION 620 AND SHALL BE WELL GRADED WITHIN THE LIMITS INDICATED WITH SUFFICIENT SMALLER STONE TO FILL THE VOIDS BETWEEN LARGER STONES.
3. ALL RIPRAP SHALL BE MACHINE OR HAND PLACED AND HAND CHINKED TO PROVIDE A UNIFORM FINISH SURFACE TRUE TO THE GRADES INDICATED ON THE DRAWINGS. STONE SIZES SHALL BE EVENLY DISTRIBUTED THROUGHOUT.
4. THE MINIMUM LAYER THICKNESS SHALL BE AS INDICATED ON THE DRAWINGS.

TEMPORARY SHORING NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN AND INSTALLATION OF TEMPORARY SHORING TO PROTECT THE TEMPORARY BRIDGE FOUNDATIONS FROM SETTLEMENT DURING THE EXCAVATION FOR AND CONSTRUCTION OF THE NEW PERMANENT BRIDGE FOUNDATIONS AND ABUTMENTS. THE SHORING SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN NEW YORK STATE WHO IS EXPERIENCED IN SIMILAR DESIGN WORK. THE TEMPORARY SHORING SHALL BE DESIGNED TO RESIST ALL LATERAL EARTH LOADS, SURCHARGE LOADS AND A TEMPORARY BRIDGE FOUNDATION LOAD OF 3,000 psf.

REVISIONS		
REV.	DATE	DESCRIPTION
0	01/10/13	FOR REVIEW
1	01/30/13	FOR PERMITS
2	05/15/13	BID AND CONSTRUCTION
3	06/19/13	ADDENDUM 2



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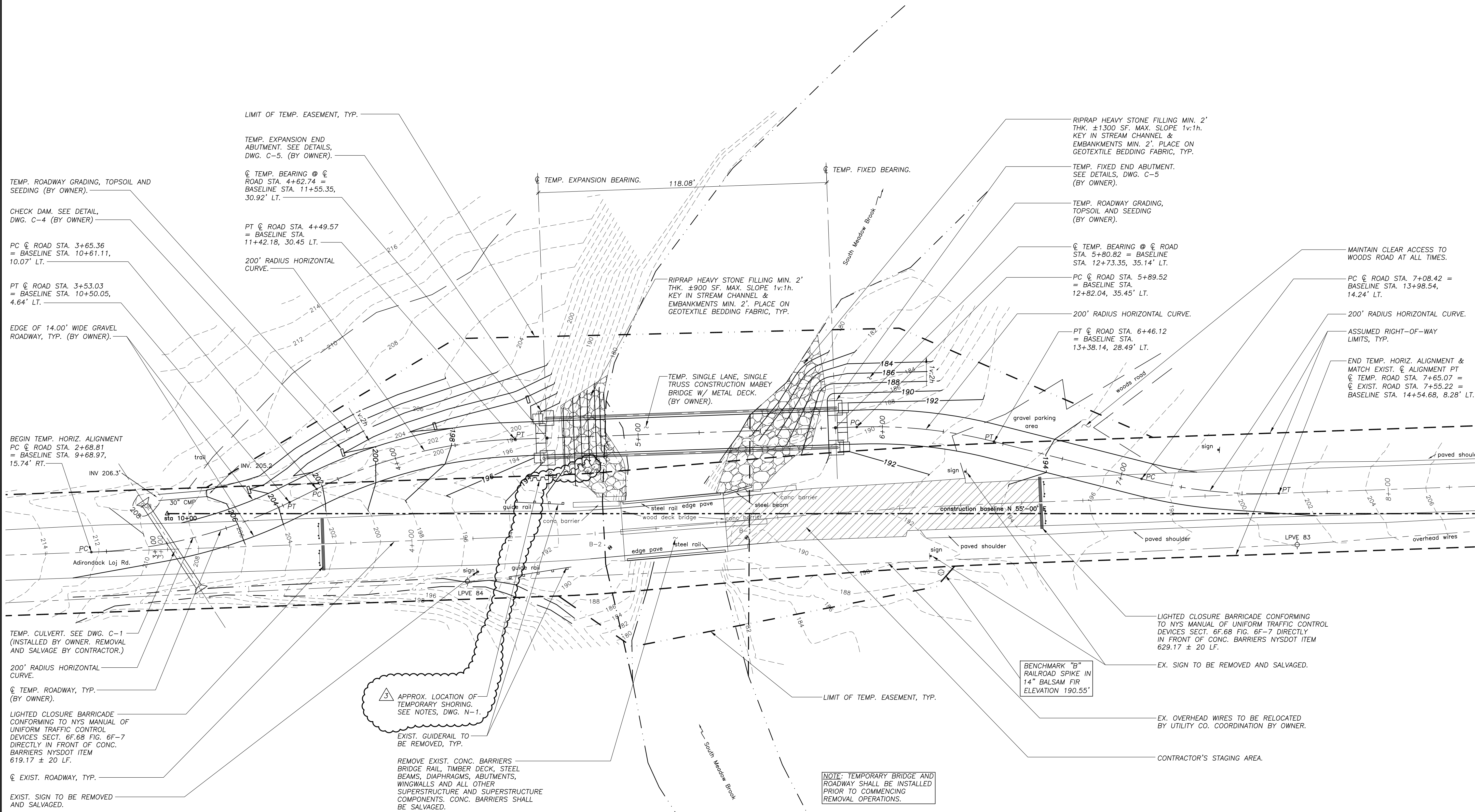
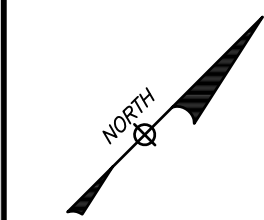
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CLIENT NAME  
**ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS**  
Elizabethtown, N.Y.

DRAWING TITLE  
**ADIRONDACK LOJ. ROAD OVER S. MEADOW BROOK BRIDGE REPLACEMENT**

NOTES	
DRAWING NO.	SHT. <u>1</u> OF <u>1</u>
<b>N-1</b>	REV. <u>3</u>





REMOVALS AND TEMPORARY BRIDGE PLAN  
1"=20'-0"

LEGEND

- 196 — NEW CONTOUR
- 200 — EXIST. CONTOUR
- EXIST. OVERHEAD UTILITY
- EXIST. EDGE OF STREAM
- CONSTRUCTION BASELINE
- B-1 ♦ SOIL BORING LOCATION

REVISIONS		
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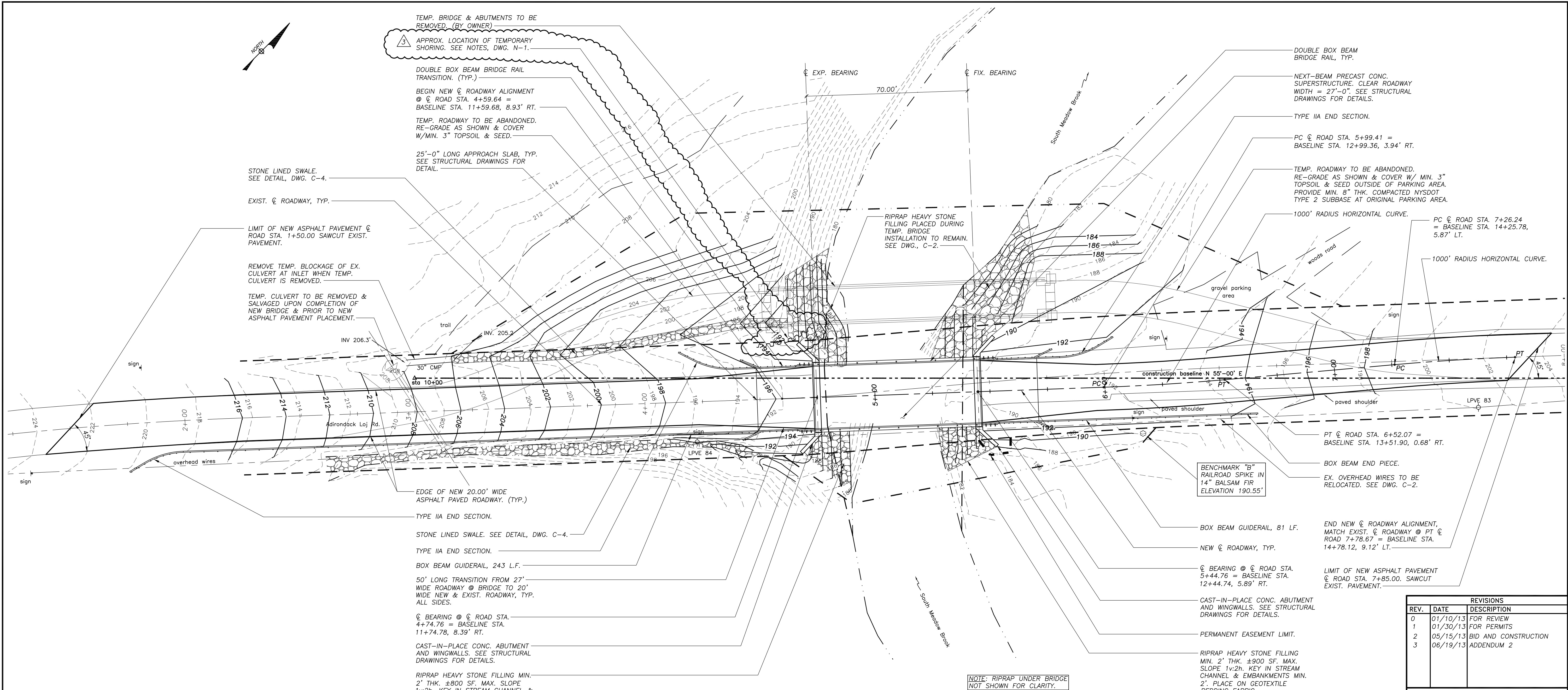
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OVER S. MEADOW BROOK  
BRIDGE REPLACEMENT  
REMOVALS & TEMPORARY  
BRIDGE PLAN

DRAWING NO. <b>C-2</b>	SHT. 2 OF 5 REV. 3
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**SITE PLAN**  
1"=20'-0"

**LEGEND**

- 196— NEW CONTOUR
- 200--- EXIST. CONTOUR
- EXIST. OVERHEAD UTILITY
- - - - - EXIST. EDGE OF STREAM
- · - · - NEW EDGE OF STREAM
- CONSTRUCTION BASELINE

REVISIONS		
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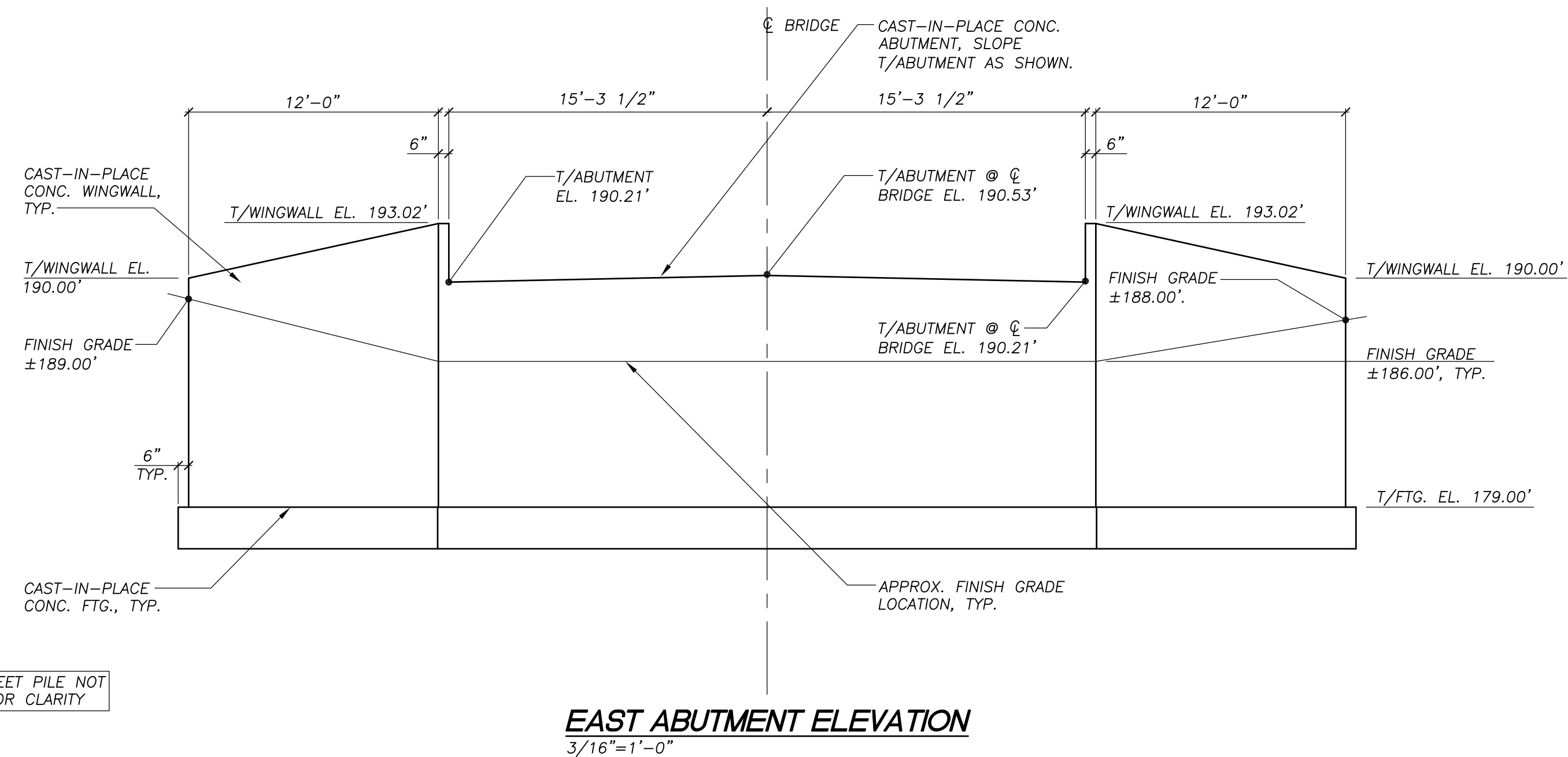
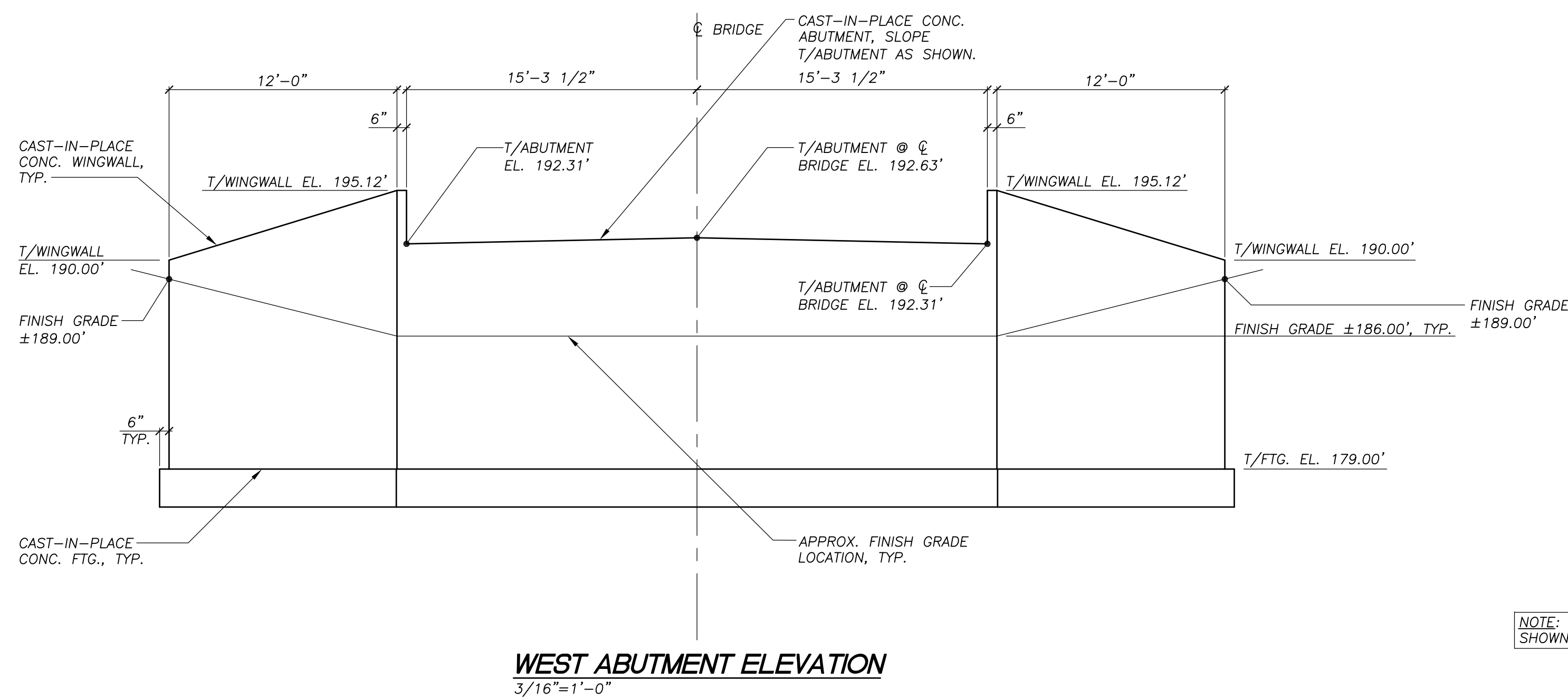
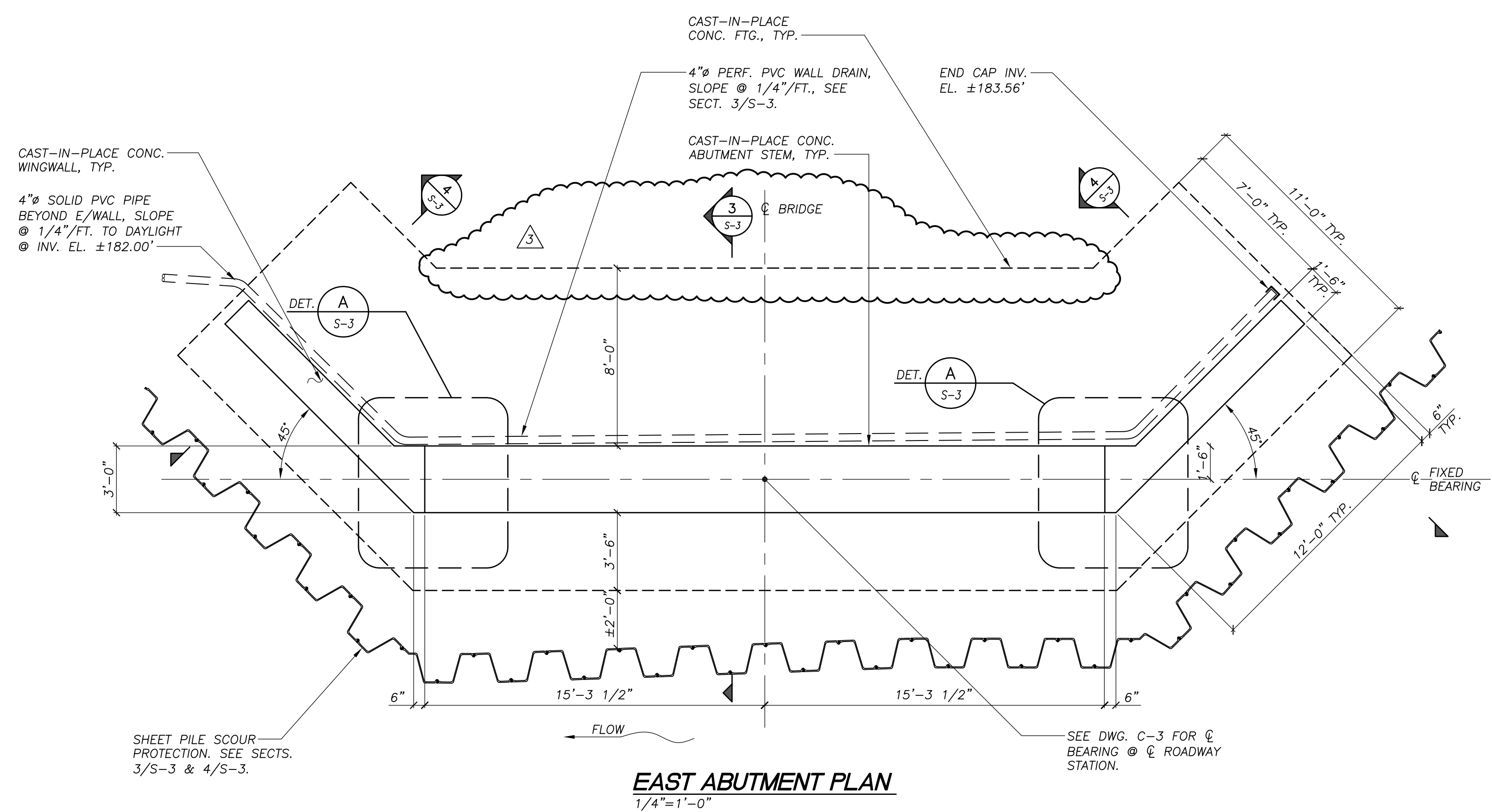
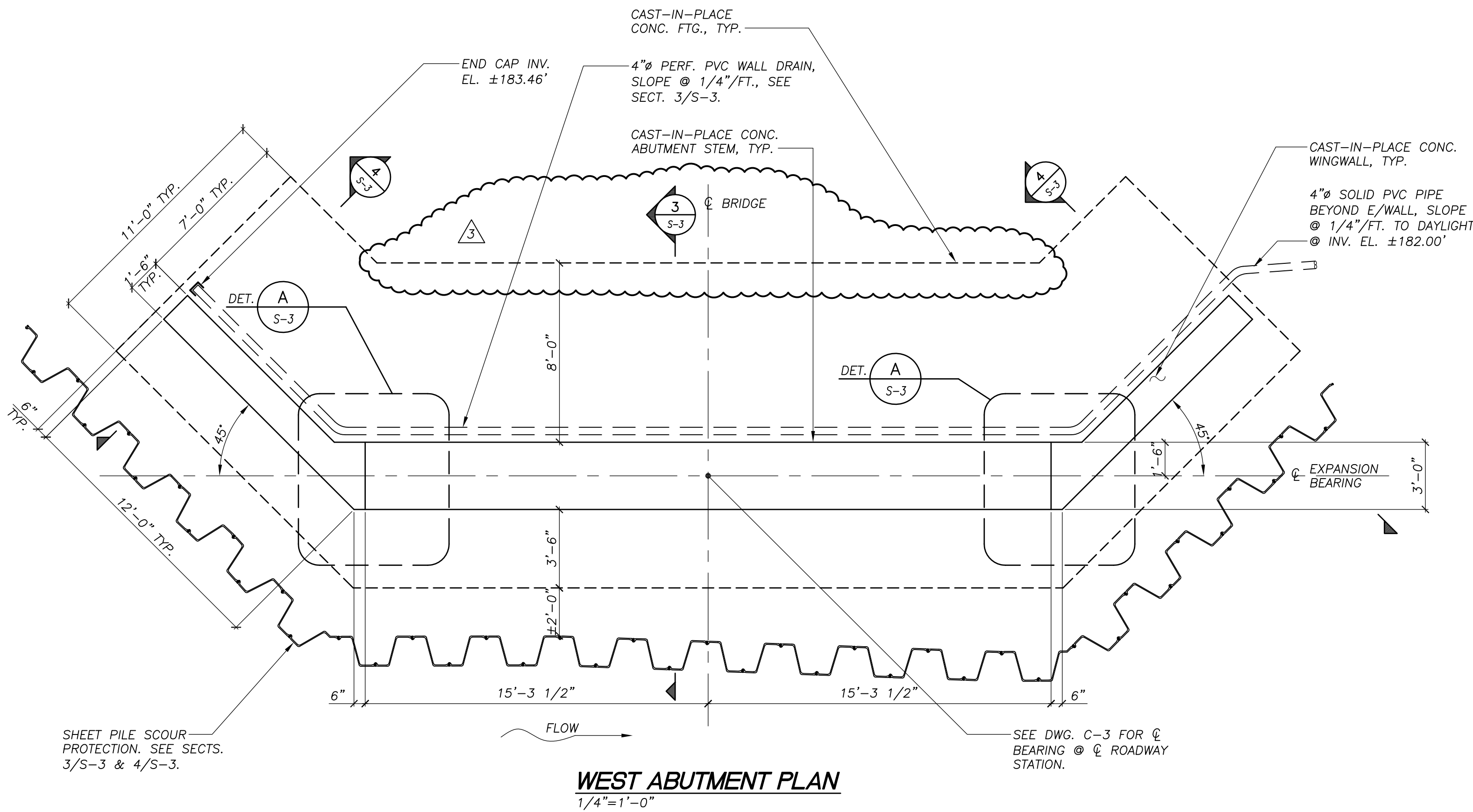
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DRAWING TITLE  
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SITE PLAN

DRAWING NO.	SHT. 3 OF 5
<b>C-3</b>	REV. 3





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BRIDGE REPLACEMENT  
ABUTMENT PLANS  
& ELEVATIONS

DRAWING NO. SHT. 2 OF 4  
REV. 3

