



STATE OF NEW YORK
OFFICE OF GENERAL SERVICES
DESIGN AND CONSTRUCTION GROUP
THE GOVERNOR NELSON A. ROCKEFELLER
EMPIRE STATE PLAZA
ALBANY, NY 12242



ADDENDUM NO. 2 TO PROJECT NO. M3041

**ELECTRICAL WORK
RESTORE ELECTRICAL SYSTEMS, VARIOUS BUILDINGS, SANDY
SING SING CORRECTIONAL FACILITY
354 HUNTER STREET
OSSINING, NEW YORK, 10562-5498**

February 13, 2014

NOTE: This Addendum forms a part of the Contract Documents. Insert it in the Project Manual. Acknowledge receipt of this Addendum in the space provided on the Bid Form.

SPECIFICATION

1. SECTION 071100 WATERPROOFING: Add the attached Section (pages 071100-1 THRU 071100-4) to the Project Manual.

DRAWINGS

2. Revised Drawings:
 - a. Drawings No. C-101 and E-102, noted "02/12/14 ADDENDUM No.2" accompany this Addendum and supersede the same numbered originally issued drawings.
3. Drawing No. E-601
 - a. DRAWINGS NOTES: Change Note ⑥ to read:
"⑥ DISCONNECT EXISTING SECONDARY CONDUCTORS FROM TRANSFORMER AND PULL EXISTING FEEDS BACK TO BLDGS 86 AND 29/87. MAINTAIN EXISTING CONDUITS FOR REUSE."
4. Drawing No. E-602
 - a. DRAWINGS NOTES: Change Note ⑥ to read:
"⑥ INSTALL CABLE LIMITERS ON EACH SET AND PHASE OF MDP-13 PRIMARY CONDUCTORS IN NEMA 4X PULLBOX 32"x32"x12" LOCATED DIRECTLY UNDERNEATH MDP-13 IN THE TRANSFORMER VAULT. PROVIDE SAME CABLE LIMITER AS DESCRIBED IN NOTE #4."
5. Drawing No. E-605:
 - a. GENERAL NOTES: Remove Note 3:

END OF ADDENDUM

James Dirolf, P.E.
Director of Design

SECTION 071100

WATERPROOFING

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. All of the Contract Documents, including General and Supplementary Conditions and Division 01 General Requirements, apply to the work of this section.

1.02 SUMMARY

- A. This Section includes waterproofing systems around vaults and manholes.
 - 1. Dual Waterproofing System - HDPE/Bentonite sheet membrane. Bentonite sheet waterproofing is not permitted without a bonded waterproof HDPE layer to the Bentonite.

1.03 SYSTEM PERFORMANCE

- A. General: Provide waterproofing products that have been produced and installed to establish and maintain watertight continuous seals at all joints, including below bottoms, vertical walls, and tops of buried structures or as directed on drawings.

1.04 SUBMITTALS

- A. General: Submit the following in accordance with Conditions of Contract and Division 01 Specifications Sections.
- B. Product data and general recommendations from waterproofing materials manufacturer for types of waterproofing required. Include data substantiating that materials comply with requirements. Drawings shall include heights and thickness of waterproofing and protection board. Include overlap details with fluid-applied sheet membrane waterproofing. Include joint details at each different condition. Tape or thermally weld joints between sections, provide details of end conditions and joinery with other materials. All materials for the selected waterproofing system must be from the same manufacturer and be compatible with each other to provide a continuous barrier to all water infiltration.
- C. Samples of membrane waterproofing materials and auxiliary materials.
- D. The installer shall be a manufacturer certified installer and shall submit proof of certification.
- E. Manufacturer's representative inspection reports.

1.05 QUALITY ASSURANCE

- A. Manufacturer: Obtain primary waterproofing materials of each type required from a single manufacturer, to greatest extent possible. Provide secondary materials only as recommended by manufacturer of primary materials.
- B. Installer: Specialist with not less than 3 years of successful experience in the installation of waterproofing projects similar to requirements for this project with satisfactory in-service performance.
- C. Pre-Installation Conference: A pre-installation conference shall be held prior to commencement of field operations to establish procedures to maintain optimum working conditions and to coordinate this work with related and adjacent work. Agenda for meeting shall include review of special details and flashing. Owner shall be invited.
- D. Schedule Coordination: Schedule work such that the waterproofing will not be left exposed to weather for longer than that recommended by the manufacturer.

1.06 PROJECT CONDITIONS

- A. Substrate: Proceed with work after substrate, openings, and penetrating work such as pipes and ducts have been completed.
- B. Weather: Proceed with waterproofing and associated work only when existing and forecasted weather conditions will permit work to be performed in accordance with manufacturers' recommendations and warranty requirements.

PART 2 - PRODUCTS

2.01 DUAL WATERPROOFING SYSTEM

- A. GENERAL
 - 1. Provide a dual-waterproofing, composite sheet membrane system composed of high-density polyethylene with a sodium-bentonite face designed for buried concrete or masonry construction, as manufactured by "Tremco, Inc ParaSeal LG" or "Cetco Coreflex 60" or approved equal for use on buried vertical and horizontal conditions such as backfilled foundation walls, manholes and vaults with bentonite facing the concrete and HDPE facing the backfill or subgrade.
- B. AUXILIARY MATERIALS
 - 1. Adhesives and Joint Tape: Provide types of adhesive compound and tapes recommended by waterproofing sheet manufacturer for bonding to substrate (if required), for waterproof sealing of seams in membrane, and for waterproof sealing of joints between membrane and flashings, adjoining surfaces, and projections through membrane. Provide thermo-welds for systems designed for thermo-weld seams. Provide tape for all joints between membrane sheets on systems using tape.

2. Termination Bars: Provide types of termination bars recommended by the waterproofing sheet membrane manufacturer for the termination/sealing of the waterproofing sheet membrane, as required.
3. Primers: Provide type of concrete primer recommended by manufacturer of sheet waterproofing material for applications required.
4. Flashing Materials: Except as otherwise indicated, provide types of flexible sheet material for flashing as recommended by waterproofing sheet manufacturer.
5. Protection Board: Provide type of protection board recommended by waterproofing sheet manufacturer. Include adhesives recommended by manufacturer.

PART 3 - EXECUTION

3.01 PREPARATION

- A. General: Comply with manufacturer's instructions for surface preparation.

3.02 INSTALLATION GENERAL

- A. Comply with manufacturer's instructions for handling, storing and installation of waterproofing materials.
- B. Coordinate installation of waterproofing materials and associated work to provide complete system complying with combined recommendations of manufacturers and installers involved in work. Schedule installation to minimize period of exposure of sheet waterproofing materials.
- C. Seal to projections through membrane and seal seams. Bond to vertical surfaces and also, where shown or recommended by manufacturer, bond to horizontal surfaces.
- D. Top Edge Seal: For vertical and sloped wall membrane, finish in reglet. Caulk exposed edges with mastic or sealant.
- E. Coat exposed areas of sheet and flashing materials. Comply with sheet manufacturer's recommendations for application and cure of coating.
- F. Install protection board on spray applied waterproofing, complying with manufacturer's direction and where recommended by manufacturer.
- G. Tape all joints between successive strips of waterproofing materials with tape provided by the manufacturer. This shall be completed on all joints whether exposed or blind side application.

3.03 FIELD QUALITY CONTROL

- A. It is required that waterproof membranes are watertight and do not deteriorate in excess of limitations published by manufacturer. All waterproofing must be inspected and

approved by waterproofing manufacturer's representative prior to pouring concrete or to backfilling. The representative shall submit a written report to the owner describing the condition of all waterproofing. If the waterproofing is unacceptable, define what types of repairs need to be implemented for approval. A final approval report must be submitted by the representative to the owner prior to pouring concrete or backfilling.

- B. Cleaning: After completion, remove any masking materials and stains from exposed surfaces caused by waterproofing installation.

3.04 PROTECTION

- A. Protect membranes in accordance with manufacturer's recommendations until placement of concrete or installation of backfill. Inspect for damage just prior to placement of concrete or backfill and make repairs in accordance with manufacturer's recommendations.
- B. Provide protection of completed membrane during installation of other materials or processes over membrane and throughout remainder of construction period. Do not allow traffic of any type on unprotected membrane.

END OF SECTION

